STATE OF OHIO DEPARTMENT OF TRANSPORTATION FR-49 (33)

VAN-30-4.05

Begin Project Sta 214+04.16

PLEASANT

LOCATION MAP

SCALE IN MILES

49

HARRISON

Portion to be improved.

State & Federal Routes

TULLY, LINION, AND PLEASANT TOWNSHIP YAN WERT COUNTY

YAN WERT COUNTY VAN-30-4.05 FR-49 (33)

FHWA REGION 5

FEDERAL PROJECT

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

		Approved <u>James L Schmenk</u> Date 12-20-83 District Deputy Director of Transportation
		Date 12-20-83 District Deputy Director of Transportation
	; ;	
OUDDI EMENTAL	ODEOLEIGATIONO	1
SUPPLEMENTAL	SPECIFICATIONS	
03 5-27-83		Approved <u>Cobert B Structural</u> Date <u>1-6-84</u> Engineer, Bureau of Bridges and Structural Design
48 2-17-83 47 4-3-76 21 12-4-72		Date <u>1-6-84</u> Engineer, Bureau of Bridges and
17 4-3-76 21 12-4-72		Structural Design
21 12-4-12	7	
		Approved Wayne H. Kauble Date 3-6-84 Chief Engineer, Planning and Design
		Date 3-6-64 Chief Engineer, Planning and Design
S		
		Approved Waven Jamith
		Date 3-6-84 Director, Department of Transportation
	· ·	
		DEPARTMENT OF TRANSPORTATION
4	·	FEDERAL HIGHWAY ADMINISTRATION
		APPROVED:
		ternagen en mit alle trefte Till til en men en e
		DIVISION ADMINISTRATOR DATE

CONVENTIONAL SIGNS

County Line ——————————————	Limited Access (only)	1
Township Line ————————————————————————————————————	Right of Way (only)	RW
Section Line		
Corporation Line or minimum	Limited Access & Right of Wa	~
	Existing Right of Way	_
Fence Line (existing) - × - (proposed) - × - × (proposed) - × (pro	Property Line — PL (in existing the control of the	
Center Line — + — + — — + — — — — — — — — — — — —	Railroad —	,
Trees (1), Stumps 1/2, (to be removed) 1/2 1/2	Guardrail (existing) (p	roposed)
Utility Poles: Telephone $\overline{\phi}$, Power $\overline{\phi}$, Light ϕ .		

INDEX O	F SHEETS	
Title Sheet	• • • • • • • • • • • • • • • • • • • •	
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	- 1994年	

I INIT DATA

LINE DATA	·
	Length
Begin Project ~ Sta. 214+04.16	•
Suspend Project~ Sta. 3/3+0/.56	= 9,897.40 Lin. Ft.
Resume Project Sta 314+66.44	
Suspend Project - Sta. 49/+ 06.63	= 17,640.19 Lin.Ft.
Resume Project ~ Sta. 493+13.37	
Suspend Project ~ Sta. 510+30.24	= 1,716.87 Lin. Ft.
Resume Project ~ Sta. 512 + 49.76	
End Project ~ Sta. 598+62.50	= 8,612.74 Lin.Ft
(5ta. 225+38.17 Bk. = 5ta. 231+97.54 Ahd.)	
Deduct for Station Equation	= - 659.37 Lin. F7.
Total Length of Project = 37,207.83 Lin. Ft.	=-659.37 Lin. FT. = 7.047 Miles
Total Length of Project = 37,207.83 Lin. Ft. Begin Work ~ Sta 2/2+66.66 End Work ~ Sta 600+00.00	
End Work ~ Sta. 600+00.00	= 38,733.34 Lin.Ff.
(Sta. 225 + 38.17 BK, = Sta. 231, + 97.54 Ahd.)	•
Deduct for Station Equation	= -659.37 Lin. Ft.
U.S.R. 224	
Begin Work~ 5ta. 6/7+96.98 End Work ~ 5ta. 632+36.75	
End Work ~ 5ta. 632+36.75	= 1,439.77 Lin Ft.
Total Length of Work = 39,513.74 Un Ft.	= 7.484 Miles
	Plan Prepared By:
	•

_19___, Contract No._

Project: VAN-30-4.05

Date of Letting_

LD 0300 Rev. 1-1-81

DISTRICT NO. 1

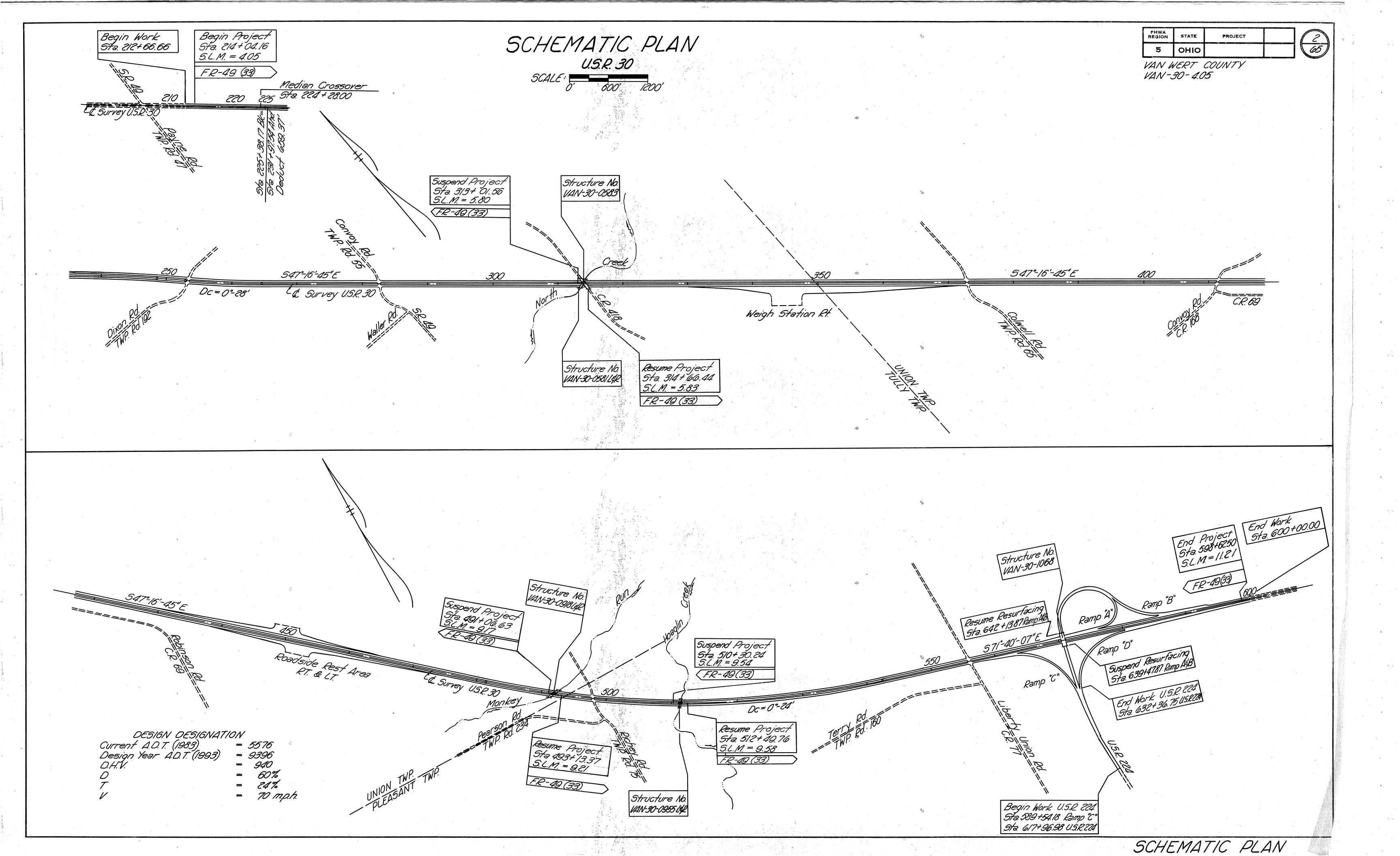
OHIO DEPARTMENT OF TRANSPORTATION

UNDERGROUND UTILITIES 48 HOURS BEFORE YOU Call...800-362-2764 OHIO UTILITIES PROTECT

NON-MEMBERS MUST BE CALLED DIR

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is.		22 Table 1	6R-4	2-5-82		¥			·	
	BP-5	7-16-81	GR-4A	2-5-82						
	BP-11	1-3-75	6R-6	2-5-82						
		•	GR-GA	2-5-82			•			
	CB-4	5-1-79	4							
	CB-5	5-1-79	•			1.7			•	
,			MC-3	6-1-73				4	· ·	
		, e	MC-4	7-26-76						
	GR-/	2-5-82	DBR-2-73	4-10-73						
* · · · · · · · · · · · · · · · · · · ·	6R-2B	2-5-82	TC-35.10	10-5-77						
	6R-3	2-5-82	16-72.20	2-26-82						
	GR-3A	2-5-82								
AL	GR-3B	2-5-82								8

DIVISION ADMINISTRATOR TITLE SHEET



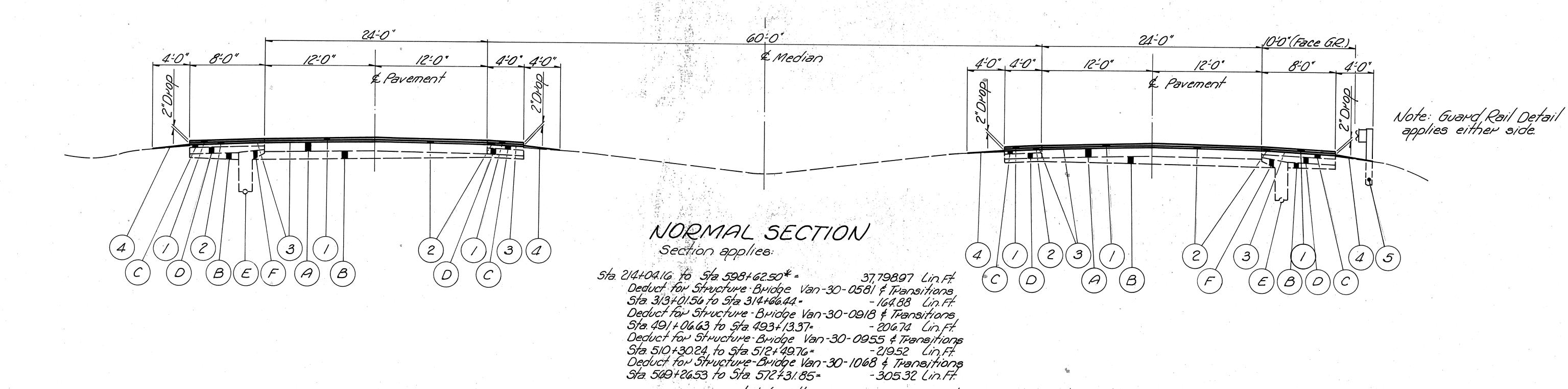
TYPICAL SECTIONS TYPE 848

Total Length

36,902.51 Lin. Ff.

FHWA REGION	STÄTE	PROJECT	(3)
5	OHIO		65

VAN WERT COUNTY VAN-30-4.05



EXISTING LEGENO

- (A) 9" Reinforced Portland Cement Concrete Pavement.
- (B) Subbase.
- (C) Waterproofed Aggregate Base.
- D) Aggregate Base.
- (E) G" Pipe Underdrain
- (F) No. 6 Aggregate

PROPOSED LEGENO

* Sta. Equation: Sta. 225+38.17 Bk = Sta. 231+97.54 Ahd.

- 1) Item 848 1/4" Asphalt Concrete Surface Course Type I, AC-20
- 2) Item 848 1/2" Asphalt Concrete Intermediate Course Type 2, AC-20
- 3) Item 407 Tack Coat with Cover Aggregate.
- 4) Item 617 Reconditioning Shoulders Including Shoulder Preparation, Compacted Aggregate and Water.
- 5) Item 606 Guard Rail, Type 5.

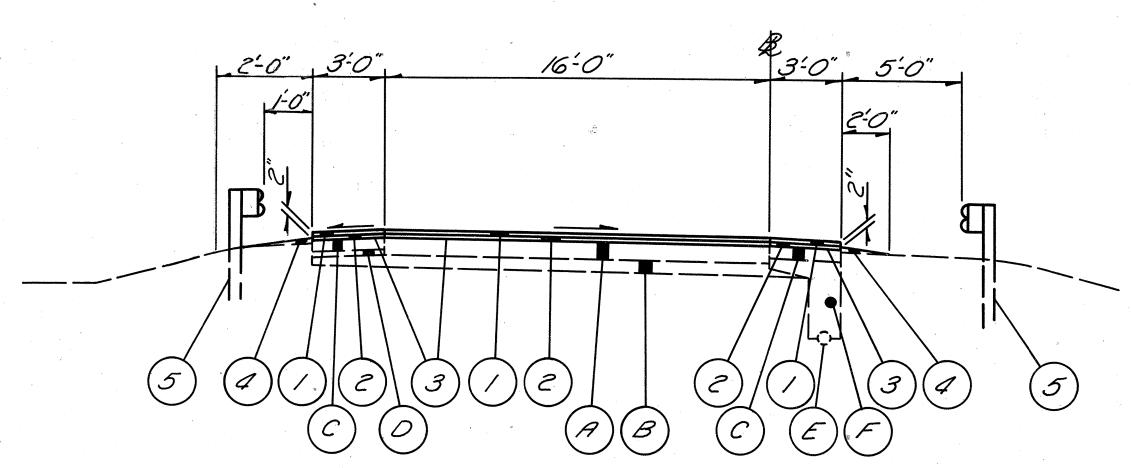
TYPICAL SECTIONS TYPE 848

FHWA REGION STATE PROJECT

5 OHIO

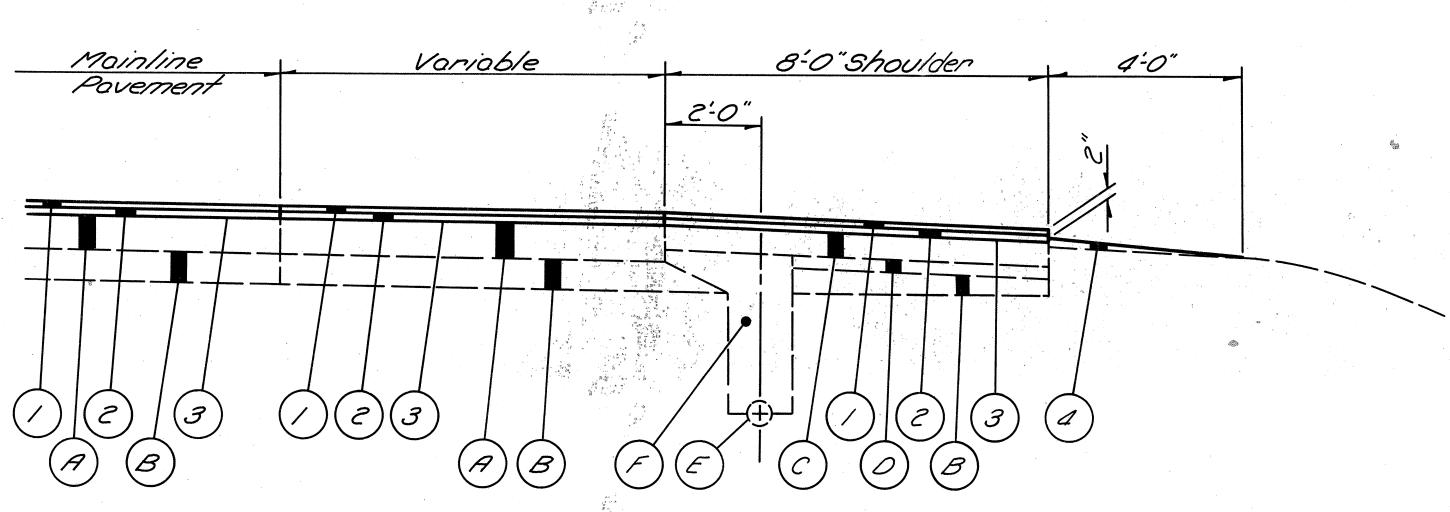
65

VAN WERT COUNTY VAN -30-4.05



NORMAL RAMP

Section Applies:
Weigh Station Ramp B."
Sta. 350+12.08 to Sta. 352+96.79 = 284.71 Lin.Ft.
Rest Area Ramp B."
Sta. 453+75.46 to Sta. 456+26.92 = 25/.46 Lin.Ft.
Rest Area Ramp C"
Sta. 445+87.08 to Sta. 448+38.54 = 25/.46 Lin.Ft.
USR 224 Interchange Ramp B"
Sta. 655+19 to Sta. 657+16.99 197.99 Lin.Ft.
Total Length = 985.62 Lin.Ft.



5 4 1 8 3 8 1 8 0 F F

SUPERELEVATED RAMP

Section Applies:
Weigh Station Ramp "A"
Sta. 338+08.21 to Sta. 34/+85.62=
Weigh Station Ramp "B" 377.41 Lin. Ff. Sta. 348+81.18 to Sta. 350+12.08= 130.90 Lin. Ff. Sta. 352+96.79 to Sta. 355+50-253.21 Lin. Ff. Rest Area Ramp "A" Sta, 444+85 to Sta. 446+48.72= 163.72 Lin. Ft. Sta. 444 + 65 + 6 Sta. 446 + 48. 12 =
Rest Area Ramp "D"
Sta. 455 + 65.28 to Sta. 457 + 40 =
USR 224 Interchange Ramp "A"
Sta. 655 + 19 to Sta. 660 + 19.80 =
USR 224 Interchange Ramp "B"
Sta. 657 + 16.99 to Sta. 663 + 44.96 =
USD 224 Interchange Ramp "C" 174.72 Lin. Ft. 500.80 Lin. Ff. 627.97 Lin. Ft. USR 224 Interchange Ramp "C" Sta. 563+ 73.81 to Sta. 573+52= 978.19 Lin. Ft. USR 224 Interchange Ramp "D" Sta. 567+84.74 to Sta. 579+18.18 1133.44 Lin. Ft. Total Length 4340.36 Lin. Ft.

SPEED CHANGE LANE

Section Applies:
Weigh Station Ramp "A"
Weigh Station Ramp "B"
Rest Area Ramp "A", "B", "C" & "O"
USR 224 Interchange Ramps "A", "B", "C" & "O"

EXISTING LEGENO

- (A) 9"Reinforced Portland Cement Concrete Pavement
- (B) Subbase
- (C) Waterproofed Aggregate Base
- (D) Aggregate Base
- (E) 6"Pipe Underdrain
- (F) No. 6 Aggregate

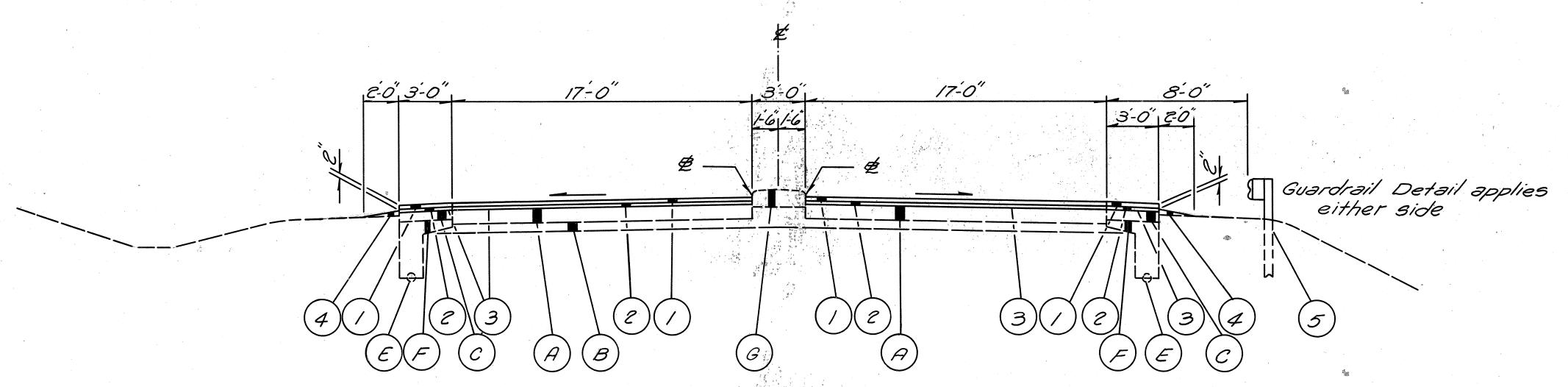
PROPOSED LEGENO

- (I) Item 848 11/4" Asphalt Concrete Surface Course, Type I, AC-20
- 2) Item 848 //z"Asphalt Concrete Intermediate Course, Type 2 , AC-20
- (3) Item 407 Tack Coat with Cover Aggregate
- (4) Item 617 Reconditioning Shoulders Including Shoulder Preparation, Compacted Aggregate and Water
- (5) Item 606 Guard Rail, Type 5

FHWA REGION PROJECT STATE OHIO

VAN WERT COUNTY VAN-30-4.05

TYPICAL SECTIONS TYPE 848



TWO WAY NORMAL RAMP

Section Applies:

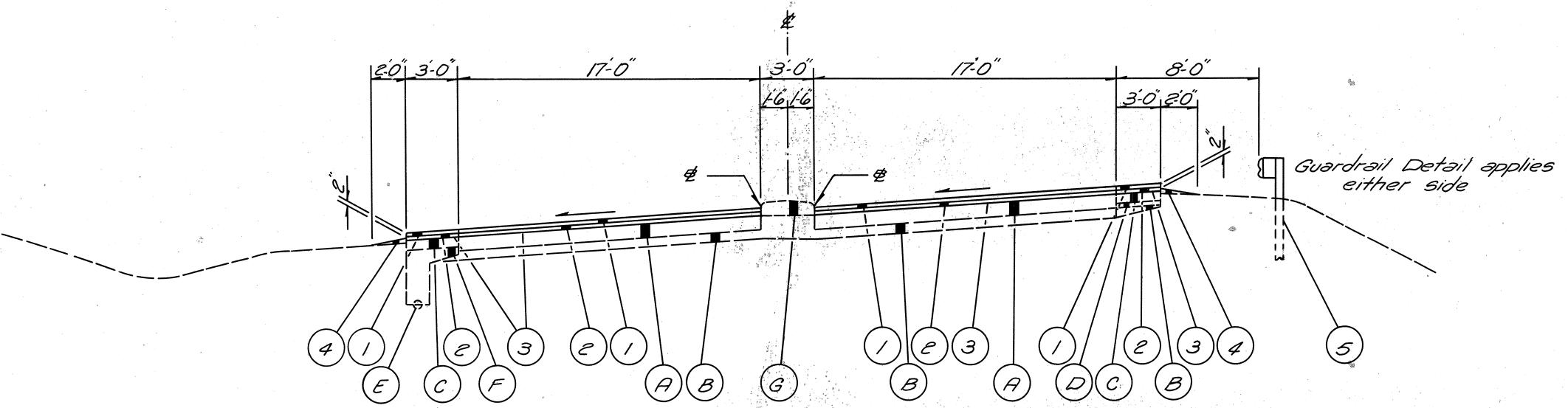
U.S.R. 224 Interchange Ramps "A" & "B"

Sta 632+68.88 to Sta 643+99.93 Ramp = 1,131.05 Lin. Ft.

Deduct for Structure ~ Bridge VAN-30-1068 & Transitions

Sta 638+77.75 to Sta 642+8455 Ramp = 406.80 Lin. Ft.

Total Length = 724.25 Lin. Ft.



TWO WAY SUPERELEVATED RAMP

Section Applies:
U.S.R. 224 Interchange Ramps "A" & "B"

Sta. 643 + 99. 93 to Sta. 655 + 19.00 Ramp = 1,119.07 Lin. Ft.

Total Length = 1,119.07 Lin. Ft.

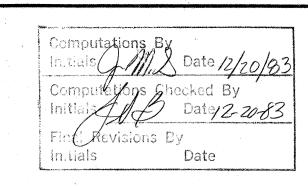
EXISTING LEGEND

- 9" Reinforced Portland Cement Concrete Pavement
- Subbase
- Waterproofed Aggregate Base
- D) Aggregate Base
- No. 6 Aggregate
- Portland Cement Concrete Median Pavement

PROPOSED LEGEND

- (1) Item 848 1/4" Asphalt Concrete Surface Course,
- Item 848 1/12" Asphalt Concrete Intermediate Course,
- (3) Item 407 Tack Coat with Cover Aggregate
- 4) Item 617 Reconditioning Shoulders Including Shoulder Preparation, Compacted Aggregate & Water
- (5) Item 606 Guardrail, Type 5

GENERAL NOTES



FHWA REGION	STATE	PROJECT	
5	OHIO		6

VAN WERT COUNTY VAN-30-4.05

- STATIONING —The Stations within the limits of this project have been established from the plans of former construction projects. Copies of these plans are on file at the District One Office of the Ohio Department of Transportation, Lima, Ohio.
- CONTINGENCY QUANTITIES The Contractor shall not order materials or perform work for plan items set up to be used "as directed by the Engineer" unless authorized by the Engineer. The actual work locations and quantities used at the Engineers discretion shall be made a matter of record by incorporation into the final change order governing completion of this project.
- FIELD OFFICE The Contractor shall provide a suitable Field Office having a minimum of 800 Sq.Ft. of floor space. Payment shall be at the lump sum price bid for Item 619 Field Office.
- PIPE UNDERDRAINS Any Pipe Underdrains broken or damaged as a result of construction operations shall be replaced by the Contractor at no cost to the State of Ohio.
- WATERING PERMANENT SEEDED AREAS The following estimated quantity is to be used as directed by the Engineer to promote growth and to care for the permanent seeded areas as per 659.09; 659 Water 10 M Gallon.
- ITEM 617, COMPACTED AGGREGATE In addition to the calculated quantities an estimated quantity of 500 Cu.Yds of Item 617. Compacted Aggregate is included to be used as directed by the Engineer for the purpose of filling ruts and depressions in the area adjacent to the paved shoulder.
- ITEM 617, WATER (COMPACTING AGGREGATE) An estimated quantity of 50 M. Gal. of Water is included in this item to aid compaction. Its use shall be as directed by the Engineer.
- ITEM 407 TACK COAT— The Tack Coat and Cover Aggregate Operation shall be determined as per Spec 407.05. Plan quantities indicate average application rate of 0.10 Gallons per Square Yard of Tack Coat and 7 Pounds per Square Yard of Cover Aggregate for estimating purposes only.
- ITEM 848, ASPHALT CONCRETE On this project, Supplemental Specification 848, Table 2-2 properties of mixtures for heavy traffic volume shall apply.
- GUARD RAIL REPLACEMENT- No hazard shall be left unprotected except for the actual time necessary to persove grade and peinstall Guard Rail in a continuous operation. The removal of all Guard Rail shall at all times be as directed by the Engineer No Guard, Rail shall be removed until the replacement material is on site ready for installation. Failure to comply with this requirement shall be deemed sufficient cause to order work suspended on this project until such 'time that the Engineer is assured of said compliance.
- ELEVATION DATUM The Elevations shown in these plans are not based on USGS Datum Rather they are based on assumed Bench Marks noted throughout the plans. The Elevations derived from one particular Bench Mark are not relative to any Elevations derived from another Bench Mark unless both Bench Marks are in the same general work areas.
- PROFILE The Profile of the proposed Asphalt Concrete shall be approximately 23/4" (inches) above that of the existing pavement except as otherwise noted.
- UTILITY OWNERSHIP The following Utilities and Owners are located within the work limits of this project: Pipe Line - Michigan & Wisconsin Pipe Line Co., 20095 Gilbert, Big Rapids, Mich. 49307 Electric & Telephone - Ohio Dept. of Transportation, 2100 N. West St. Rd., Lina, Ohio 45801 (3/3) 965-16/6 (419) 222-9055
- UNDERGROUND UTILITIES, The locations of the Underground Utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64 ORC.
- UTILITIES NOTIFICATION At least two working days prior to commencing construction operations in an area which may involve underground utility facilities, the Contractor shall notify the Project Engineer the registeved utility protection service and the owners of each underground utility, facility showh in the plans. The owner of the underground utility facility shall, within forty-eight hours, excluding Saturdays, Sundays and Legal Holidays, after notice is received, stake, mark or otherwise designate the location of the underground utility facilities in the construction area in such manner as to indicate their course together with the approximate depth at which they were installed. The marking or locating shall be coordinated to stay approximately two days ahead of the planned construction.
- PAVENIENT REPAIR Prior to the start of any construction on the project, the Engineer will have marked with paint all pavement repair locations. All pavement repairs shall be 10 (ten) ft. in length.

- 310 SUBBASE ~ In aveas of payement, replacement, where unsuitable subgrade material is encountered the Engineer shall require the replacement of the unsuitable subgrade Included in the General Summary is 400 Cu. Yd. of 310 Subbase Grading "A" to be used as directed by the Engineer for subgrade replacement. The cost of removing and disposing of the unsuitable subgrade and the reshaping of the subgrade will be included in the unit price bid for 310 Subbase, Type I, Grading A, as per plan.
- ITEM SPECIAL, PAVEMENT, SAWING -The areas of pavement, repair shall be outlined, generally rectangular in shape, with paint prior to the start of pavement sawing. The existing rigid pavement shall be sawed full depth as detailed on Sheet 8. The Contractor may elect to make additional cuts to facilitate the removal of the pavement. However, only cuts designated by the Engineer will be measured for payment.

 The unit price bid per Lin. Ft. for Item Special, Pavement Sawing shall be full compensation for completing the saw cuts at locations designated by the Engineer!
- TRAFFIC MAINTENANCE One lane traffic areas shall be controlled with temporary traffic control devices arranged as indicated in the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways" current edition and the application, standards appearing in these plans. The Contractor shall furthish, place and maintain yellow alternating Flasher Beacon Lights on all "Road Construction Ahead" signs when and as dir-ected by the Engineer It shall be understood that the cost of Electrical Services shall be included in the lump sum bid for Item 614 Maintaining Traffic.

The maximum length of any one lane traffic zone shall be two miles. The minimum distance between one

lane traffic zones shall be two miles." No work on US 30 Pavement or Berms, shall, be performed by the Contractor from 4:00 P.M. Friday to 6:00 AM. Monday. Two-lane traffic in each direction shall be maintained during these periods. No work on US.30 Pavement or Berms shall be performed by the Contractor 24 hours preceding or on a Legal Holiday, during which two-lane traffic in each direction shall be maintained

Payment for providing watchmen, erecting, maintaining and removing signs, barricades, cones, markers, special lighting, etc. shall be included in the lump sum bid Item 614 Maintaining, traffic.

There shall not be more than one proposed course placed on existing pavement or shoulders before adjacent courses are placed. Permanent pavement marking shall be placed within three weeks after completion of final Surface Courses

All drums and barricades used as channelizing devices for traffic and placed adjacent to a lane in use by traffic shall be equipped with Type "C" steady burn barricade warning lights in accordance with O.M.U.T.C.D..
Refer to lane closure drawings, included in plans for further details of "set-ups" required for the above closures. Lane width for all phases shall be a minimum of 12 ft.

During the initial first day "set-up" period and the last day "tear-down" period of each traffic control sequence a Law Enforcement Officer with Patrol Car shall be present to assist in traffic control operations. The Contractor, may, at his option use such a Law Enforcement Officer with Patrol Car to assist in Traffic Con-TYOI AT OTHER TIMES

The use of the Law Enforcement Officer with Patrol Car for Traffic Control as required by the plans shall be paid on a unit price (hourly) basis under the Item Special shown. A quantity of 800 hours of Item Special "Law Enforcement Officer" with Patrol Car" has been included in the General Summary. All optional use of such a Law Enforcement Officer with Patrol Car and all other labor, equipment and materials required for Traffic Control shall be included in the lump sum price bid for Item 614 Maintaining Traffic.

While Pavement Repair is being conducted on the ramps at the US 224 Interchange, the ramps shall be closed to traffic. No ramp shall be closed for more than fifteen days. The Contractor shall contact the District One Operations Engineer at the Ohio Department of Transportation, 'Lima, Ohio, seven days prior to beginning Pave-

ment Repair on the ramps to allow for detours to be set up

Before removing existing Guard Rail from the bridge decks, Type 6 Guard Rail will be placed as temporary pro-tection and remain in place until the installation of deep beam rail with tubular back-up has been completed, See "Temporary Guard Rail Protection at Bridges" detail on Sheet 7 for placement of Type 6 Guard Rail. A quantity of 2750.00 Lin Ft. of Type G Guard Rail has been included in the General Symmary for temporary protection at bridges. Type 6 Guard Rail may be re-used from location to location as the feasibility of the work schedule pro-All labor material and equipment necessary to install and remove the temporary Guard Rail as well as the cost of traffic control in administering the temporary protection, shall be included in Item 614.

ALTERNATE METHODS - If the Contractor so elects, he may submit Alternate Methods for Maintenance of Traffic provided the intent of the above provisions are followed and no additional inconvenience to the traveling public results, there from. No Alternative plan shall be placed into effect until approval has been granted, in

writing by the Director of Transportation.

- ITEM SPECIAL, PARTIAL DEPTH PAVEMENT REPAIR—The small spalling areas, where tull depth pavement, repair is not necessary, shall be chipped out, cleaned using compressed air and tacked in accordance with Item 407. The Area will be filled and compacted with asphaltic material, such as Item 402 or 404. An estimated quantity of 350 Sq. Yds. is provided to be used at the direction of the Engineer, Payment for all of the above work shall be at the unit price bid for Item Special, Partial Depth Payement Repair, measured in Square Yards of spalled area. Average depth of pavement removal will be 4".
- ITEM SPECIAL, PRESSURE RELIEF JOINT-Pressure Relief Joints shall be placed at intervals of 1000 and also at the East and West ends of each mainline bridge Lt. and Rt. as per Std. Dwg. BP-11. Payment for the above shall be at the unit price bid for Item Special, Pressure Relief Joint Std. Type "D" measured in Lin. Ft.

GENERAL NOTES

- CATCH BASIN, WITHOUT APRON, AS PER PLAN—Any Embankment required around the proposed Catch Basin due to existing concrete pad removal or washout shall be included in the unit price bid for Catch Basin Std. No. 4 (or Std. No. 5), Without Apron, As Per Plan. Topsoil will be used for backfill prior to placing sod around the proposed C.B.
- LOCATION OF GUARO RAIL The locations of Guard Rail runs as shown in these plans are subject to adjust-ment prior to final acceptance. The Engineer shall be satisfied that all installations will afford maximum protection for traffic.
- CONNECTION TO EXISTING PIPE ~ Where the plans provide for proposed conduit to be connected to, or to cross either over or under an existing sewer, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed conduit.

 Payment for all operations described above shall be included in the unit price bid for the pertinent 603
- FASTENING OF BRIDGE TERMINAL ASSEMBLIES Bridge terminal assemblies which are to be fastened to existing concrete parapets by steel box blockouts shall be attached by means of through bolts. Expansion anchor bolts will not be permitted.

 Where self-drilling anchors are permitted and are used the holes shall be drilled with the tubular expansion shell rather than with a bit, to insure a proper fit. The anchors shall be installed flush with the sur
 - face of the concrete.
- Where anchorage by expansion bolts to a deteriorated concrete surface would result in a guestionable attachment, through bolts shall be used instead, at the discretion of the Engineer
- GUARD RAIL REMOVED FOR STORAGE Guard Rail, including all post and accessories designated for removal on this project, shall be carefully dismantled and stored on the project for removal by State Forces All materal not considered, salvageable shall be disposed of as directed. All post holes shall be carefully filled and tamped and the site cleaned and restored. The storage location shall be approved by the Engineer, Payment for all of the above shall be at the unit price bid for Item 202, Guard Rail Removed for Storage measured by the linear foot center to center of the terminal posts.
- CATCH BASIN REMOVED The existing concrete pads around the Catch Basins to be removed are considered to be part of the Catch Basin and will be removed with the Catch Basin. The pad sizes are generally 8 × 14 × 6". Castings of Catch Basins to be removed shall be salvaged and remain the property of the State of Ohio. The castings shall be stored on the job in an area designated by the "Engineer to be later removed by State Forces."
- PRE-CAST CATCH BASINS ~ In the event the Contractor elects to use Pre-cast Catch Basins it shall be the responsibility of the Contractor to determine from the elevations on the plans whether or not the Pre-cast Catch Basin top will clear the conduit in the Catch Basin. Should adequate clearance not exist, the Contractor shall pro-vide clearance by sawing the Pre-cast top to fit over the conduit at no additional expense to the State.

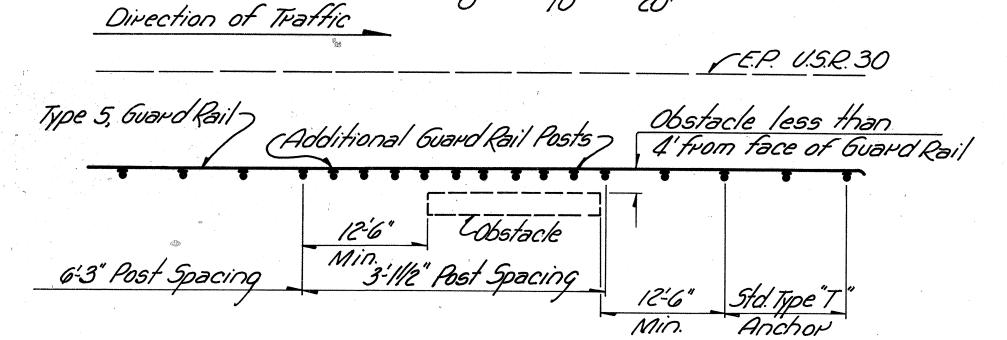
GUARD RAIL TYPE 5, 3-11/2" POST SPACING DETAIL

FHWA REGION OHIO

65

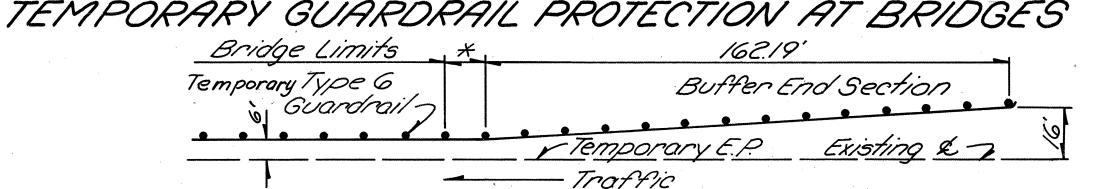
Initials Job Date 12-20-8

VAN WERT COUNTY VAN-30-4.05



When obstacles are less than 4' from the face of Guard Rail, additional posts will be installed to obtain 3'-1/2" post spacing in front of the obstacle and for a minimum distance of 12'-6" from the approach end of the obstacle layment for allocational Guard Rail Posts, spacer blocks, hardware and labor necessary to install the additional Guard Rail Posts shall be included in the unit price of Item 606 Guard Rail, Type 5.

For Locations where additional Guard Rail Posts are necessary, See Sheets 36647



SEEL	ING	
Sheet	Seeding & G	
21		
3/ 38 42 47 48 50 5/ 52	744 228 698	
42	698	
47	740	
48	116	·
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5/	1419	
53	1389	
	.000	•
Total	8773	

EAR	THW	IORK
Sheet	S Excavation	S Embankment (3)
		i i
3/ 50 5/ 52 53	72 169 28 52	22 40 65 66 429
50	169	40
5/	28	65
52	52	66
53	0	429
Total	321	622

Structure Number	Bridge Limits	*	Length	Total Len per Brio
100111001	<i>L1111113</i>		per side	DET DITO
VAN-30-058/4	24.88	12.62'	200.00	800.00
VAN-30-09/8 0	66.74	8.26'	237.50'	950.00
VAN-30-09550	79.52	7.98'	250.00'	1000.00
Total			·	2750.00

** The Contractor shall determine the post lengths from a field survey of the guardrail is 27" above the final wearing course surface. The post lengths in the table are subject to adjustment. Asphalt Concrete Overlay Concrete Bridge

MISCELLANEOUS COMPUTATIONS 659 Seeding and Mulching (from Table) =
Deduct for Sodding =
Deduct for Piers =

2 5g. Yd. 8745 Sq. Yd. Net Seeding and Mulching

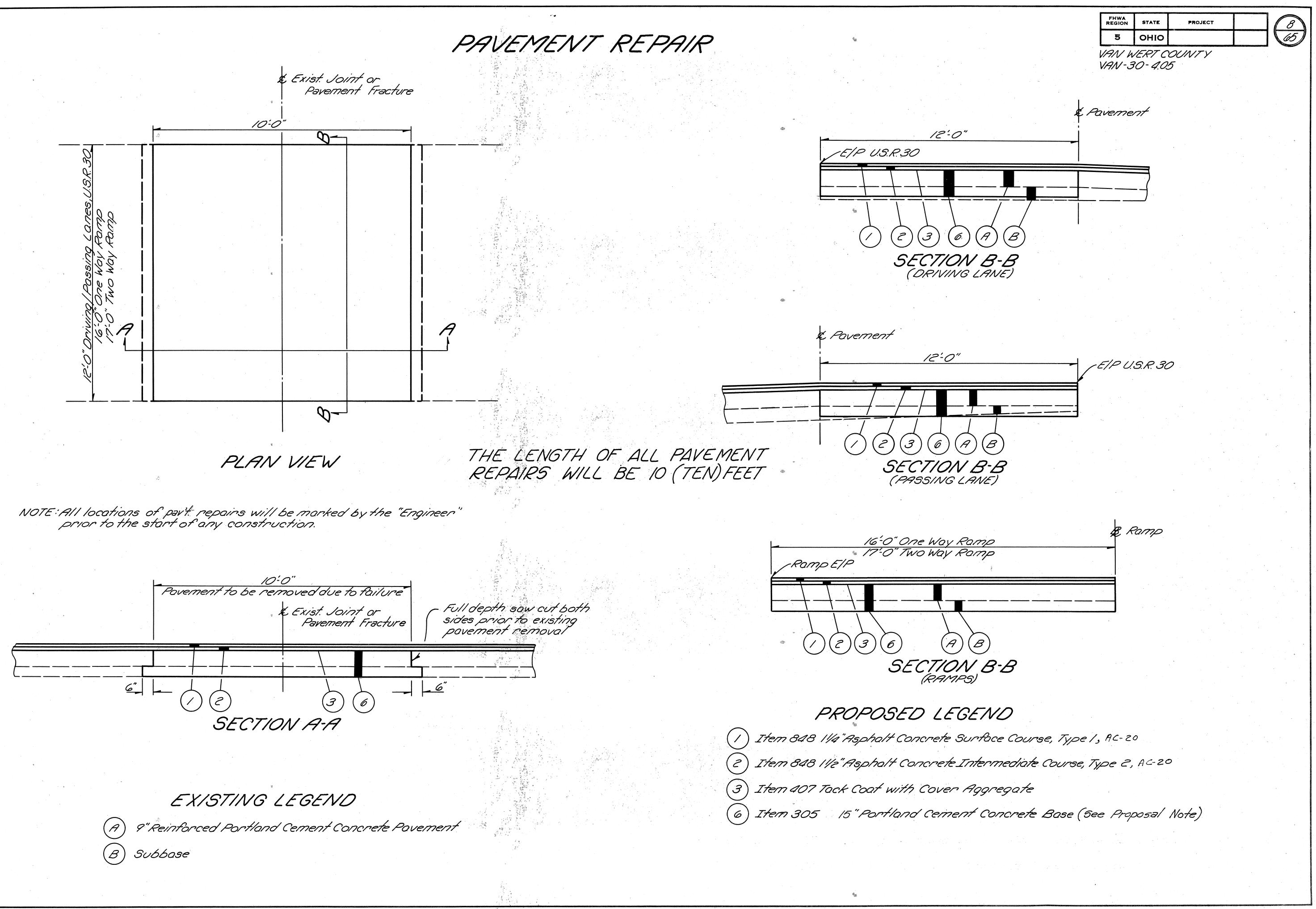
659 Commercial Fertilizer: (8745)(9)(1/1000)(20)(1/2000)=

0.79 Ton

Field verify before fabricating posts. Use existing anchor bolts.

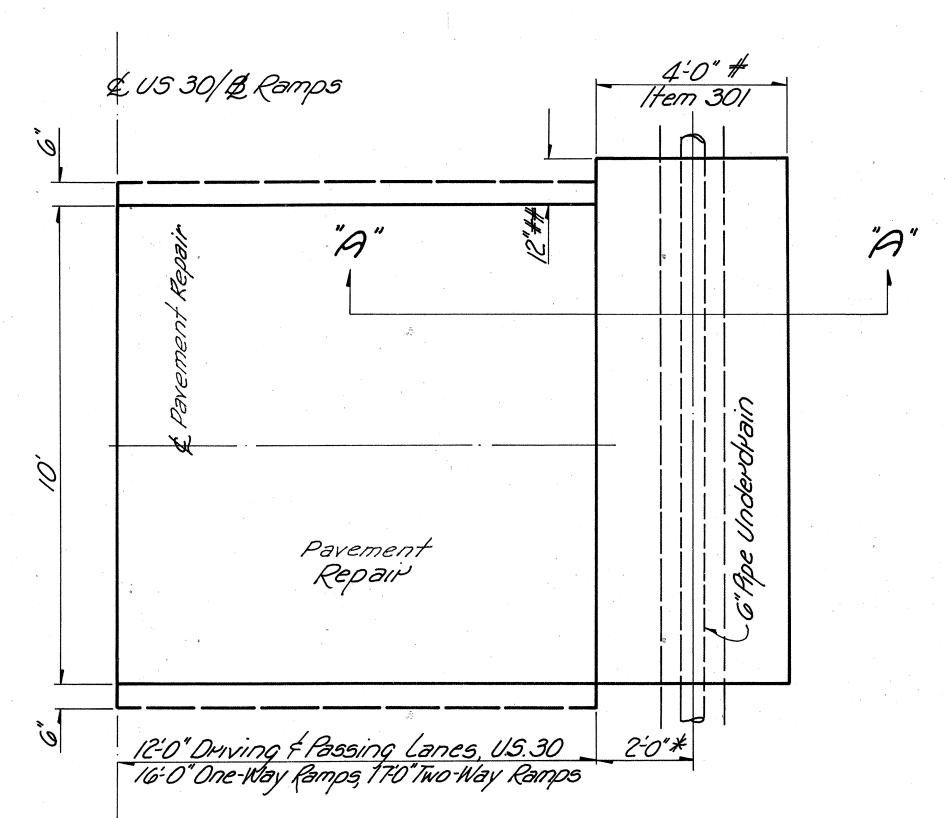
Bridge Guardrail Post Dimensions Bridge No.

VAN-30-0581 VAN-30-0918 VAN-30-0955



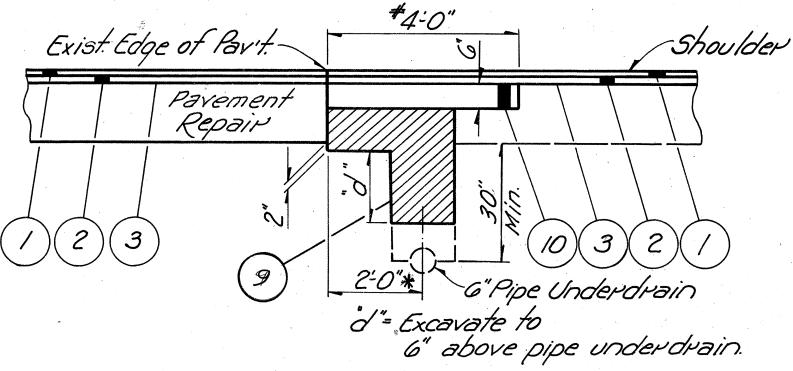
LONGITUDINAL AGGREGATE DRAINS "AS PER PLAN"

(Applies where existing Pipe Underdrains are present)



PLAN VIEW

- * = Mainline, For location of pipe underdrain on Ramps, See Typical Sections Sheets 4 5 5
- # = Mainline; 3-0" on Ramps.
- ## = The 12" additional Longitudinal Drain length shall apply at the up-grade end of the Pavement Repair Area.



SECTION "A"-"A"

605 LONGITUDINAL AGGREGATE DRAIN, AS PER PLAN—
In addition to the provisions of Item 605, the following shall apply to this item:
The cross-hatched area noted above shall be excavated to a depth "d" and backfilled with No. 8 Aggregate. Payment for the above excavation, disposal of excavated material, No. 8 Aggregate, placing of No. 8 Aggregate, Item 301 material and placing of Item 301
material shall all be included in the unit price bid per linear foot of "Item 605 Longitudinal Aggregate Orain, as per plan" measured parallel to the pavement edge.

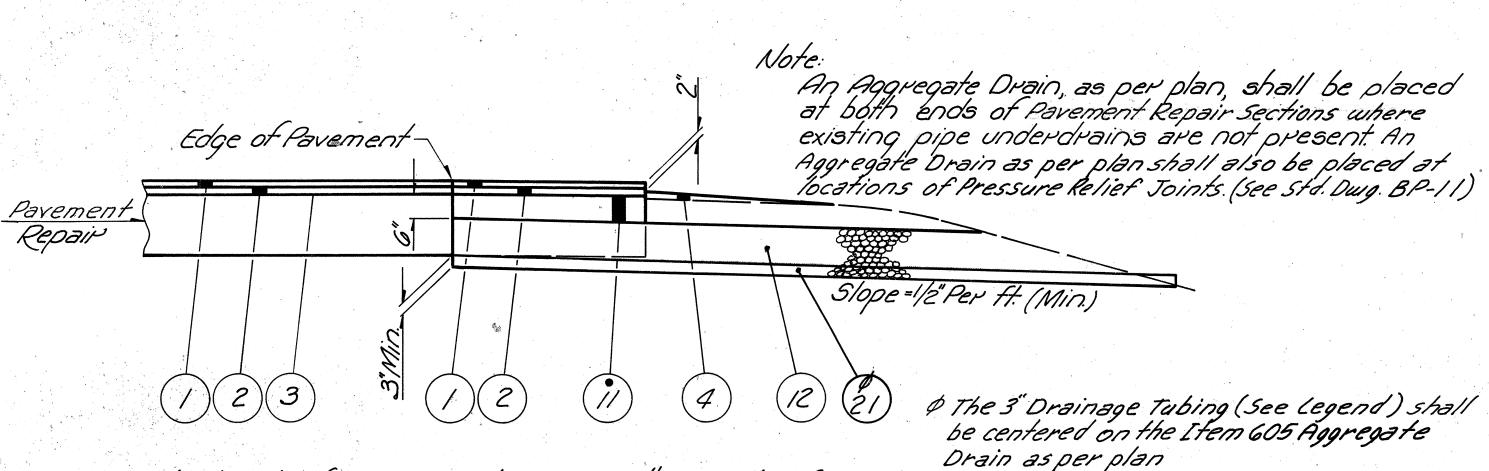
FHWA REGION STATE PROJECT

5 OHIO

VAN WERT COUNTY

YAN WERT COUNTY YAN-30-4.05

AGGREGATE DRAIN "AS PER PLAN"



• = The length of Item 30| shall equal the width of Item 605 Aggregate Drain, as per plan. Cost of excavation, disposal of material, Item 30| haterial and placing of Item 30| material shall all be included in the unit price bid per linear foot of Item 605 Aggregate Drain, as per plan measured perpendicular to the Edge of Pavement.

PROPOSED LEGENO

- (1) Item 848 Asphalt Concrete Surface Course, Type I, AC-ZO
- 2) Item 848 Asphalt Concrete Intermediate Course, Type 2, AC-20
- 3) Item 407 Tack Coat with Cover Aggregate.
- (4) Item 617 Reconditioning Shoulder Including Shoulder Preparation, Compacted Piggregate, and Water
- (9) Item 605 Longitudinal Aggregate Drain, as per plan.
- (10) Item 301 Bituminous Aggregate Base, AC-20, RT-11 or RT-12 (Cost to be included in the unit price bid of Item 605 Long-itudinal Aggregate Drain, as per plan).
- (11) Item 301 Bituminous Aggregate Base, AC-20, RT-11 or RT-12. (Cost to be included in the unit price bid of Item 605 Aggregate Drain, as per plan).
- 12) Item 605 Aggregate Drain, as per plan.
- 21) Item 605 3" Perforated Corrugated Polyethylene Drainage Tubing, 707.15 (Cost to be included in the unit price bid of Item 605 Aggregate Drain, as per plan)

PAVEMENT TABLE

Computations By
Initials Date 12/20/83
Computations Checked By
Initials Date 12-20-83
Final Revisions By
Initials Date

FHWA REGION	STATE	PROJECT	
5	ОНЮ	•	

VAN WERT COUNTY VAN-30-4.05

				8 + 3					
	848	407	617 20	02 Special 605			848	407	617 202 Special 605
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	12 5 6 8 8 5 6 8	100 000		76 3668 297			222828	200 000	
	8,03,3 3,02,3	130	1 20 62 20	6 6 9 6 10 10 6 6			2029 2029		129 120 1200 1200
om To	Cu.Yd. Cu.Yd.	Gal. Ton		. Yd. Lin. Ft. Lin. Ft.			Cu.Yd. Cu.Yd.	Gal. Ton	Sa. Yd. Cu. Yd. Sa. Yd. Lin. Ft. Lin. Ft.
							3		2050 02 02200 2000 422
30 Mainline E.B. & W.B.					512+49.76 569+26.53 56 Pavement	16.17	1051.25 1261.50	3027.61 105.97	8859.92 922.90 288.0 432
66.66 214+04.16 137.5			244.44 12.73 500	0.00	Median Shoulder		160.20 192.25	461.38 16.15	
ment (Transition)	34.95 4.63	73.33 2.57			Outside Shoulder		294.86 353.84	849.21 29.72	
an Shoulder (Transition)	5.83 0.77	12.22 0.43			[[], 2(F2 F70 , 0) []	7.5.00			100.00 8.33
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04.16 313+01.56 9238.03			15,089.37 1571.80	480.0 720	Median Shoulder (Transit	ion)	2.93 0.77	6.67 0.23	
25+38.178k=5ta.23/+ 97.54 Ah.					Outside Shoulder (Transi	tion)	2.93 0.77	6.67 0.23	
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ian Shoulder ide Shoulder	247.13 296.57 552.97 663.56	711.74 24.92 1592.56 55.74			570+01.53 571+56.85 15 Pavement	9.32	28.76	82.84 2.90	201.09 12.94
10E SNOUTGEF	992.97 669.96	1352.30 33.74			Median Shoulder		4.79	13.81 0.48	
01.56 313+31.56 30.00		8	53.33 2.78	10 mm mm	Outside Shoulder		4.79	13.81 0.48	
01.56 313+31.56 30.00 ment (Transition)	5.11 1.11	16.00 0.56			57/15/ OF 572.210F 7	500			100.00 8.33
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NO WORK					512+31.85 598+62.50 26. Pavement	70.07	487.16 584.59	1403.01 49.11	156.61 576.11 144.0 610
36.44 314+66.44 30.00			53.33 2.78		Median Shoulder		81.19 97.43	233.83 8.19	
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66.44 491+06.63 17,640.19			26,875.10 2799.47	912.0 1368	Median Shoulder (Transit	ion)	5.83 0.77	12.22 0.43	
rement	3266.70 3920.04	9408.10 329.29			Outside Shoulder (Transiti	00)	11.65 1.54	24.44 0.86	
tside Shoulder	514.62 617.56 837.08 1004.51	1482.09 51.89 2410.82 84.38							
3702 377007027	057.08 7004.51	2470.02 04.58				di di	₩		
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777.50.05 30.00			53.33 2.78			/ 10	1001012120000	20502 26 1000 20	570/505 507275 1000 00 10/90 2052
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ement(Transition) lian Shoulder (Transition) side Shoulder (Transition)			53.33 2.78					•	57,865.95 5972.75 1000.00 1968.0 2952 e for drains at Pressure Relief er plan' detail on Sheet _9
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PAVEMENT TABLE "RAMPS & AT-GRADE INTERSECTIONS"

FHWA REGION 5 ОНЮ

(1) (65)

VAN WERT COUNTY VAN-30-4.05

	818	407		6/7	1 202 1	2007/1 606 T			· · · · · · · · · · · · · · · · · · ·	<u> </u>		07		רי די	202	<u> </u>	-COE	<i>Constitution of the Constitution of the Const</i>
Station	Asphalt Concrete Surface Surface (ourse, Type / Asphalt Concrete Intermediate Course, Type?	Tack Coat Cover Anoverate		Reparation (Compacted Aggregate	Wearing Course Removed	Rellet Voint, std Magnegate Drain, as per plan *	Station		Asphalt Concrete Surface CourseType-18	rispinali Concrete Intermediate Course Type-2	Tack Coaf	Cover Aggregate	Shoulder	Compacted Aggregate	Wearing Course Removed	Pressure Relief Voint, 5td. Voint, 5td.	Hogyegate Drain, as per plan *	b
From To	Cu. Yd. Cu. Yd.	Gal. Tor.	$\frac{5}{9}$	o. Yd. Cu. Yd.	. Sg. Yd. (Lin. Ft. Cin. Ft.	From To	· · · · · · · · · · · · · · · · · · ·	Cu.Yd.	CU. Yd.	Gal.	Ton	Sg. Yd.	Cv. Yd.	5g. Yd.	Lin.Ft.	Lin.Ft.	Registrative and the second second
leigh Station - Ramp "A" Pavement Shoulder	80.00 89.75 36.81 41.82	232.01 8.12 106.60 3.73	?	4.45 58.34	?	16.0 18	Dixon Rd. Intersection (Sa 252+56.31 254+03.86 Pavement Shoulder	Pouth)	10.67	4.71 2.05	32.63 8.38	1.14	55.85	5.82				
leigh Station - Ramo "B"			101	7.54 103.45	5	36.8 36					P.							
Veigh Station - Ramp "B" Pavement Shoulder	133.56 154.03 103.46 87.28	386.30 /3.5/ 247.62 8.66	7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			5.R. 49 (Median) 278+52.19 286+94.81 Pavement		36.60	43.93	105.42	3.69	401.85	41.86				
							Shoulder		/3.95	16.74	40.18	1.41						
Rest Area - Ramp "A" Pavement Shoulder	103.65 118.13 97.33 74.31	300.13 10.50 227.47 7.90	50	5.44 83.89)	208 18	SO 19 (Nouth)											
SHOOLGE	97.00 74.07	CE 1.47 1.90					5.R. 49 (North) 281+88.57 283+19.51	/					54.34	5.66				
Rest Area - Ramp "B"	70.07 01/0	20147 744		348 5303	3	16.0 18	Pavement Shoulder	7	9.82 3.15	3.99 /.99	30.14 8.15	1.06 0.29						e
Pavement Shoulder	72.87 81.19 38.27 43.57	211.47 7.40 107.14 3.75																
							5.R. 49 - (South) 282+32.49 283+63.4	13		- Tigg			54.34	5.66				÷.
Rest Area - Ramp "C" Pavement Shoulder	7282 8/10	2//.34 7.39	53	32.63 52.94	7	16.0 18	Pavement Shoulder		<u>9.83</u> 3./5	3.99 1.99	30.16 8.15	1.06						
Shoulder	72.82 8/.14 38.15 43.43	107.05 3.75	5				SIJOUIUER		3.75	7.55	0.70	0.29						
				2544 00.00			Colwell Rd-Intersection (1	Median										
Rest Area - Ramp "D" Pavement Shoulder	103.65 //8./3	300.13 10.5		25.44 83.89		20.8	368+91.19 377+28.81 Pavement	<u></u>	38.63	46.35	111.24	3.89	401.85	41.86				en manufer man
Shoulder	103.65 1/8.13 97.28 74.30	227.40 7.90					Shoulder		13.95	16.74	40.18							
1/0.0 224 <i>Q</i> "Q"			101	1200 (8202	2 170.00	1210												
U.S.R. 224 - Ramp "A" Pavement Shoulder	373.86 430.27	1071.46 37.43	19	02.99 183.02	1/8.89	124.8 126	Colwell Rd Intersection () 372+22.58 373+53.50	(<i>North</i>) 0	4				54.34	5.66				Y
Shoulder	150.16 141.21	388.23 /3.59	9				Pavement Shoulder		9.82 3.15	3.99 1.99	30.16 8.15	0.29						wine remarkation in
1150 221 - Pama "B"			///	4.76 118.65	17880	67.0 72												
USR. 224 - Ramp "B". Pavement	236.33 271.06 74.55 87.24	673.82 23.5	58	4.70 770.00	770.09	07.0	Colwell RdIntersection (S.	South)										
Shoulder	74.55 87.24	2/0.00 7.3	34				372+66.50 373+97.42 Pavement		9.82	3,99	30.16	1.06	54.34	5.66				-
1/60 224 0 "6"				2 00 100 10			Shoulder		3./5	1.99	8.15	0.29	r .					
U.S.R. 224 - Ramp "C." Pavement Shoulder	240.09 282.26	692.96 24.8	25	3.89 144.10		55.0 54					3			*	,			
Shoulder	104.40 121.37	290.79 10.10	18			-to, 20 A	Convoy RdIntersection (19 407+25.69 415+54.5	Median) •					401.85	41.86				
1150 221 - 0 "0"			121	0.82 /27/18	2	368 36	Pavement		36.60	43.93	105.42	3.69						
U.S.R. 224 - Ramp "D" Pavement Shoulder	161.93 194.32	466.36 16.3	32	9.82 137.48		368 36	Shoulder		13.95	16.74	40.79	1.4/						
Shoulder	124.18 111.54	303.89 10.6	64				Convoy Rd-Intersection (N	(orth)										**************************************
Divon Pot Intersection (Median)						A - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Convoy Rd-Intersection (N 4/1+07:13 4/2+56:12 Pavement	2	1250	177	28/17	/35	55.85	5.82				
Dixon Rd. Intersection (Median) 249+55.44 257+86.94		10=10	40	1.85 41.86			Shoulder		<i>12.50</i> 3.23	4.77 2.05	38.47 8.38	<i>1.35 0.29</i>						
Pavement Shoulder	36.60 43.93 /3.95 /6.74	105.42 3.90 40.18 1.41				Les Control of the Co					\$. *			Interpretation of the second
							Convoy Rd-Intersection (- 410+24.14 4/1+73.13	South)	· · · · · · · · · · · · · · · · · · ·				55.85	5.82				
Dixon Rd. Intersection (North) 253+38.11 254+88.45				COT 200			Pavement Shoulder		11.72	4.77 2.05	35.98 8.38	1.26	33.03	٥.0٤				
253+38.11 254+88.45 Pavement	11.34 4.84	34.75 1.27		5.85 5.82			Shoulder	0	3.23	2.05	<u>8.38</u>	0.29						kaja kiaj nyanguna ang pangananan
Pavement Shoulder	323 2.05	34.75 /.26 8.38 02:	29				Sub-Totals to Sheet 1	2.	2758.62	294266	767897	269.02	1205860	1232 15	35778	410.0	4/4	
															,			
						3 % 3 S	* Aggregate Drain locations. See	n, as per pla Std. Drawin	an" guai g BP-II a	ntities sho and Agarea	own on this ate Drain.	" Sneet ar	re tor drains n" detail on	at Pres Sheet G	59UPE K 1	Eller Joh	77	
										1/ -7								
										<u> </u>								

PAVEMENT TABLE "Ramps & At Grade Intersections" Continued

				#			C C1 101 10				/7	202		1 204
	Station			14 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ofte ediate Typez		40	zote .		loer irotion	octed egate	202	Special 8	os "So
ن	07011011			Aspho Concre Surfoc Course	Aspho Concre Interm Course		Tock Coot	Cover		Should	Compac	Wearing Course Removed	Press Reliet Joint, Type L	Aggreg
From	70			Cu. Yd.	Cu. Yd.		Gal.	Ton		5q. Yd.	Cu. Yd.	Sq. Yd.	Lin.Ft.	L117.1
Pichey Rd. II	ntersection	n(Median)												
	502+29.53			38.63	96.35		111.24	3.89		401.85	41.86			
Pavement Phoulder				13.95	16.74		40.19	1.41						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
9			vi i i i i i i i i i i i i i i i i i i					Ŕ					are being a second	N WAR TO A W
	intersection	(North)										-	79.6	Grand State of State
197+21.93 Pavement	498+53.90			10.13	4.04		3/.//	1.09		54.34	5.66			
Shoulder				3./5	1.99		8.15	0.29						
											· · · · · · · · · · · · · · · · · · ·		5 ° .	- 1 89 - 1 - 1 89
Pichey Rd. In	tersection	(South)												1.5
197+66.88	498+96.78	ev .		9.86	3.94		30.30	1.06		54.34	5.66			
Povement Shoulder		·		3.15	1.99		8.15	0.29	No. of the Control of				# 25 mg	
														204
Liberty Rd. II	ntersection	(Median)											A ST	
552+13.93	560+50.07	*		20.20	15.01		110 31	201		401.85	41.86		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Pavement Shoulder			**	38.28 13.95	45.94 16.74		110.26 40.18	3.86 1.41					, , , , , , , , , , , , , , , , , , ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
iberty Rd. In	tersection (, 556+80.31	North												
555+49.79	556+80.31			9.7/	3.97		29.81	1.04		54.34	5.66			
Pavement Shoulder				3.15	1.99		8.15	0.29						× 1
													*	
Liberty Re	l. I. Intersect	ron (South)					·						#	
555†82.73 Povement	d. Intersect 557+13.19			10.35	3.97		31.84	1.//	The Control of the Co	54.34	5.66			
Shoulder				3.15	1.99		8.15	0.29		5			7 N	2
		±			, was a second								Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	
e			*					₩					1	
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	heet Tota tals Shee			157.46	149.65 11,707.59		457.53 28,592.20	16.03			106.36		1968.0	29
	fals Shee				2942.66			269.02			1232.15			41
<u></u>					Market Report of the Control of the								er in the second	8
Gran	d Totals	to Shee.	ts 23\$24	12,878.21	14,799.90		36,728.76	1285.84		70,945.61	7311.26	1357.78	2378.0	33
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FHWA REGION	STATE	PROJECT	
5	ОНЮ		
	WERT 30~	COUNTY 1.05	

PAVEMENT COMPUTATIONS U.S.R. 30

	. W		
U.S.R.30 ~ Mainline ~			Sta. 212 + 60
Pavement Factors ~ Mainting (Width = 2(21))		•	Payamana
Mainline ~ (Width = 2(24)): 848 , Type I : (1:25)(III)(48)(I)(I/27)	<i>= 0.185185 (</i>	CuYd UinFt	Pavement 848, Typ
	=0.222222		848, Typ
	=0.533333		407 Tac
	=0.0/8667		407 COV
Inside Shoulder~ (Width = 4)			Inside St.
848, Type / (1.25)(1/12)(4)(1)(1/27)	=0.015432		848, Typ
848, Type 2: (1.50)(1/12)(4)(1)(1/27)	=0.018519	GU. YO. JLINIT.	848, Typ
407 Tack Coat: (4)(1)(1/9)(0.10)	= 0.044444 = 0.001556	Odl./Un.Ft.	407 Tack
407 Cover Aggregate (4)(1)(1/9)(7/2000)	=0.00/556	10/1/2/11.11.	407 Con
Outside Shoulder ~ (Width = 8'): 848, Type 1: (1.25) (1/12) (8) (1) (1/27)	=0.030864	Cu Yd/Lin Ff	Outside S 848, Typ
848, Type 2: (1.50) (1/12) (8) (1) (1/27)	=0.037037		848, Typ
407 Tack Cost (8)(1)(1/9)(0.10)	<i>=0.088889</i>	Gal/Lin.Ft.	407 Tack
407 Cover Aggregate (8)(1)(1/9)(7/2000)	=0.003///	Ton/Lin.Ft	407 Cove
Shoulder Reconditioning:	0 111111	aville d	Shoulder
617 Shoulder Preparation: (4)(1)(1/9)	=0.44444 -0.046206	39.10.[CIN.17.	617 Sho
617 Compacted Aggregate: (3.75)(1/12)(4)(1)(1/27) 617 Water ~ Quantity Calculated on total	-0.040290	00. 10./011.11.	6/7 Comp
617 Quantity.			202 Wea
Tomachina Factoria			510. 214+0
Transition (110') (Weigh Station & Rest Area Rai 848, Type I: (1) [(1.25)(1112)(20) + (1/2)(2.25)(1/12) (90)] (1/27)	nps):		(5ta. 225 t
848, Type 1: (1) [(1.25)(1/12)(20) + (1/2)(2.25)(1/12)	0.00000	C V// C/	Pavement
(90)] (1/27)	= U. 30906/	GU.Yd.] F.F. of	848, Typ
		Width Cu. Yd. Ft. of	407 120
848, Type 2: (1/2) (1.50 + 1.0) (1/12) (20) (1) (1/27)		Width	407 COV
407 Tack Coat (110)(1)(1/9)(0.10)	=1.222222		Inside St.
		Width	Length: c
407 Cover Aggregate: (110)(1)(1/9)(7/2000)		Ton/Ft.of	010 T
		Width	848, Typ
Transition-(137.50') ~ (@ Begin & End Work): 848, Type : ([1.25] (1/12) (25) + (1/2) (2.25) (1/12) (112.50) + (1.25) (1/12) (62.50] (1) (1/27)			848, Typ 407 Tack
048, Type 1: ((1.25) (1/12) (25) + (1/2) (2.25) (1/12) (112.50) + (1.25) (1/12) (62.50) 7(1) (1/27)	= 0728202	Cu Vd/Ffof	407 Col
(1/2.30) 4 (1.23) (1/12) (02.30) (1) (1/21)	0.720202	Wid H	Outside S
848, Type 2: (1/2) (1.50 + 1.0) (1/12) (25) (1) (1/27)	= 0.09645/	Cu. Yd./Ft.of	Length:
		Width	848, Typ
407 Tack Coat : (137.50)(1)(1/9)(0.10)		Gals./Ft.of	848, Typ
		Width	407 Tal
407 Cover Aggregate (137.50)(1)(1/9)(7/2000)	= 0.0534/2	1011/Ft.of	407 Cov Shoulder
Transition ~ (13750')~ (Benin Wark on 115	0 221):	Width	Length:
Transition ~ (137.50') ~ (Begin, World) on U.S. 848, Type I : [(1.25)(1/12)(25)+(1/2)(2.25)(1/12) (112.50] (1)(1/27)	c. <i>c.c4</i> /		617 Sho
(112.50) (1) (1/27)	= 0.487076	Cu. Yd. / Ft. of	617 Con
		Cu.Yd./Ft.of Width	Sta. 3/3+0
848, Type 2: (1/2) (1.50 +1.0) (1/12) (25) (1) (1/27)	= 0.09645/	CU. Yd. / Ft. of	
		Width	Pavement
407 Tack Coat: (137.50)(1)(1/9)(0.10)	-1.56/1/0	Gals. Ft.of Width	848, TYP
407 Cover Aggregate: (137.50)(1)(1/9)(7/2000))= <i>0.053472</i>	Ton / Ft of	848, Typ 407 Ta
407 0070, 71997 cgare (101.00)(1)(1)000		Width	407 Co
Transition ~ (30') ~ (Mainline Bridges): 848, Type I : [(1.25)(III)(6) + (II)(2.25)(III)(24)](I)(II)			Inside S
848, Type 1 : [(1.25)(1)12)(6) + (1/2)(2.25)(1)12)(24)(1)(1/2)	7)=0.106482	Cu. Yd. / Ft. of	848, Ty
		WIOTH	848, TY)
848, Type 2 · (1/2) (1.50+1.0) (1/12) (6) (1) (1/27)		CU. Yd./Ft.of	407 73
107 Tack Coat. (30)(1)(10)(010)		Width Gal./Ft.of	407 Co. Outside
407 Tack Coat (30) (1) (1/9) (0.10)		Width	848, Typ
407 Cover Aggregate: (30)(1)(1/9)(7/2000)	*A* 17	Ton/Ft.of	848, Typ
		Width	407 Tac
Transition ~(70) ~ (5tructure No. VAN-30-1068 848, Type : (1) (10) (1/9) (1.25) (1/36) + (1) (60) (1/9) (1/2) (2.25 + 1.00) (1/36)	on USR. 20	?4, Ramps):	407 Co.
848, Type : (1)(10)(1/9)(1.25)(1/36) + (1)(60)(1/9)	0 00000	CALLE	Shoulder
(1/6)(2.65 + 1.00)(1/36)	-0.339506	- 1 / / / /	Length
	=0.038580	of Width	6/7 Sho 6/7 Col
848, Type 2 (1)(10)(1/9)(1.50+1)(1/36)		of Width	OIT COL
407 Tack Coat: (1)(70)(1/9)(0.10)	=0.777778		Sta. 3/3 +
		af Will	Sta. 313 F Structu!
407 Cover Aggregate: (1)(10)(1/9)(1/2000)	=0.027222	Ton/Ft	& Existil
		or Width	

		<i>0.3.</i> k
6ta 212 +66.66 to 5ta 214+04.16	~ (Transition)~	
64a. 212 +66,66 to 5ta. 214 +04.16	Length =	-137.50 Lin.Ft.
Pavement~		= 34.95 Cu. Yd.
848, Type : (2)(24) (0.728202) 848, Type 2 : (2)(24) (0.096451)) 	= 4.63 CU. Yd.
407 Tack Coat: (2)(24)(1.5277	<i>78)</i>	= 73.33 Gals
407 Cover Aggregate: (2)(24)	(0.053472) =	2.57 Tons
Inside Shoulder~		- 5.83 Cu.Yd
848, Type I (2)(4)(0.728202) 848, Type 2 (2)(4)(0.096451)		- 0.77 Cu. Yd
407 Tack Coat: (2)(4)(1.52777		12.22 Gals.
407 Cover Aggregate: (2)(4)(0.43 Ton
Outside Shoulder~	To the second se	1165 CIVA
848, Type (2)(8)(0.728202) 848, Type 2 (2)(8)(0.096451)		= 11.65 Cu.Yd. = 1.54 Cu.Yd.
407 Tack Coat (2)(8) (1.527778)	To a second seco	=24.44 Gals.
407 Cover Aggregate (2)(8)(0.	053472) =	= 0.86 Ton
Shoulder Reconditioning: 4 (13)	?50) = ==================================	= 550.00 Lin.Ft.
617 Shoulder Preparation: (53	0)(0.444444) 5)(0.016296)(1/2)=	= 244.44
617 Compacted Aggregate: (550 202 Wearing Course Removed: (2))(62.50) (36) (1/9) =	=500.00 Sq.Yd.
Sta 214 + 04.16 to Sta 313 + 01.5		=9,238.03 Lin.Ft.
(Sta. 225 + 38.17 Bk. = Sta. 231+9		
Pavement~		
848, Type 1: (9,238.03) (0.185/85	(222)	=1,710.74
848, Type 2: (9,238.03) (0.222) 407 Tack Coat: (9,238.03) (0.	-cc) 533333) =	4,052.89 Cu.Yd. 4,926.95 Gals.
407 Gover Aggregate (9,238.0	23) (0.018667)	172.45 Tons
Inside Shoulder ~		
Length: 2 (9,238.03) - 480.17 - 4		- 16.011 22 Lin Et
- (2) (260.61) - 492.62 848, Type I · (16,014.22) (0,01543)		=16,014.22 Lin.Ft. =247.13 Cu.Yd.
848, Type 2 (16,014.22)(0.018519)		=296.57 Cu. Yd.
407 Tack Coat : (16,014.22)(0.04	<i>=</i>	=711.74 Gals.
407 Cover Aggregate (16,014	1. <i>22</i>)(0.00/556) =	= 24.92 Tons
Outside Shoulder~ Length: 2 (9,238.03)-2 (130.94)	-150 31-11757=	179/6 27 / in Ff
848, Type 1: (17,916.27) (0,03086	<i>(1)</i> =	=552.97 Cu.Yd
848, Type 2: (17,9/6.27)(0.03703		-663.56 CU. Yd.
407 Tack Coat (17,916.27) (0.0		+1,592.56 Gals
, 407 Cover Aggregate (17,916.6 Shoulder Reconditioning~	7)(0.0031/1)	55.74 Tons
Length · 16,034.84 + 17,916.27	10 gg	33,951.11 Lin.Ft.
617 Shoulder Preparation (
617 Compacted Aggregate:	(33,951.11)(0.046296)	i)=1,571.80 GU.Yd.
617 Compacted Aggregate: 9ta. 313+01.56 to 9ta. 313+31.5 Pavement~	56 ~ (Transition)	- 20 00 1:- EL
Pavement~	Lengin=	= 30.00 LIN. [T.
848, Type 1: (2)(24)(0.106482)		= 5.11 Cu. Yd.
848, Type 2: (2)(24)(0.023148)	• • • • • • • • • • • • • • • • • • • •	= 1.11 Cu. Yd.
407 Tack Coat: (2)(24) (0.3		= 16.00 Gals. = 0.56 Ton
407 Cover Aggregate (2)(24 Inside Shoulder~		- 0.30 7077
848, Type 1: (2)(4)(0.106482	2	- 0.85 Cu.Yd.
848, Type 2 (2)(4) (0.023148)		= 0.19 Cu.Yd
407 Tack Coat (2)(4)(0.333		= 2.67 Gals.
407 Cover Aggregate: (2)(4) Outside Shoulder~	(U.U//00/)	-0.09 Ton
848, Type 1 · (2)(8)(0.106482)		= 1.70 Cu. Yd.
848, Type 2: (2)(8)(0.023/48)	\	= 0.37 Cu. Yd.
407 Tack Coat: (2)(8)(0.333.	/ 1/2	= 5.33 Gals. = 0.19 Ton
407 Cover Aggregate: (2)(8) Shoulder Reconditioning~	(0.011001)	
lenath: 4(30)	=	= 120.00 Lin.Ff.
617 Shoulder Preparation ((20) (0.444444) =	= 53.33 Sq. Yd.
617 Shoulder Preparation (617 Compacted Aggregate	(120)(0.046296) (1/2) -	= 278 C. VW
	* * * * * * * * * * * * * * * * * * *	
5fa.3/3 + 3/.56	1.44 - LENGTIN = [+ & P. +	-104.00 CIII.II.
& Existing Overlays ~ No W	brk	10
	A Care &	the second of th

THE TOTAL SELECTION OF THE THE THE STATE OF THE PROPERTY OF TH	20)~
	nn)~ H = 30.00 Lin.Ft.
ement~	E11 0 111
18, Type 1 · (2) (24) (0.106482)	= 5.// Cu.\d.
48, Type 2:(2)(24)(0.023/48)	= 1.11 Ou. Yd.
107 Tack Coat (2)(24)(0.3333333)	
107 Cover Aggregate (2)(24)(0.01/667)	= 0.56 Ton
ide Shoulder	
48, Type 1: (2)(4)(0.106482)	= 0.85 Cu.Yd.
18 Ting 2 (2)(1)(0.023118)	= 0.19 GU.Yd.
48, Type 2. (2)(4)(0.023148)	
07 Tack Coat: (2)(4)(0.3333333)	= 2.67 63/5.
07 Cover Aggregate: (2)(4)(0.011667)	= 0.09 Ton
side Shoulder ~	
48, Type 1: (2)(8) (0.106482)	- 1.70 GU.Yd.
48, Type 2 (2)(8) (0.023/48)	= 0.37 CU.Yd.
107 Tack Coat: (2)(8)(0.333333)	= 5.33 Ga/5.
107 /dck (00/1. (c)(0)(0.00000)	Programme and the contract of
107 Cover Aggregate (2)(8)(0.011667)	= 0.19 Ton
ulder Reconditioning~	
noth: 4(30')	= 120.00 Lin.Ft.
17 Chaulder Properation (120) (n MANA	(4) = 53.33 Sq. Yd.
17 Carala 1 1500 011011 (160) (0.44444	- 55.55 54.10.
17 Shoulder Preparation (120) (0.44444) 17 Compacted Aggregate (120) (0.046296)	000 0111
(1/2)	= 2.78 GUYG
211,66 11 1-61-10120562-1-	
	th=17,640.19 Lin Ft.
ement~	
148, Type 1 : (17,640.19)(0.185185)	=3,266.70 CU.Yd.
48. Type 2: (17.640.19)(0.2222222)	=3,920.04 CU.Yd.
07 Tack Coat (17,640. [9] (0.533333)	=9,408.10 Gals.
107 Cover Aggregate (17,640.19) (0.01866)	
ide Shoulder	
ide Shoulder~	
rg th · 2 (17,640.19) -2 (487.62) -478.88	00 01000 1 1 11
-478.90	=33,347.36 Lin.Ft.
18, Type 1 · (33,347.36)(0.0/5432)	= 5/4.62 CU.Yd.
18, Type 2: (33,347.36) (0.0/85/9)	=6/7.56 CU.Yd.
07 Tack Coat (33,347.36) (0.044444)	=1,482.09 Gals.
107 Cover Aggregate: (33,347.36) (0.00/550	
hida Chaildan	
fside Shoùtder~	
ng th · 2 (17,640.19) -800.00 -1650 -903.74	
-904.74-1,670.60-1,669.80-2	
(130.92) - 2 (148.99)	= 27,121.68 Lin.Ft.
18, Type 1 · (27, 121.68) (0.030864)	= 837.08 Cu.Yd.
10, 14001. (61,161.00)(0.000004)	
18, Type 2: (27,121.68) (0.037037)	= 1,004.51 Cu. Yd.
107 Tack Coat: (27,121.68) (0.088889)	=2,410.82 Gals.
07 Cover Aggregate: (27,121.68) (0.003111)	= 84.38 Tons
oulder Reconditioning~ ingth: 27,121.68 + 33,347.36 17 Shoulder Preparation: (60,469.04) (0.444444)	- 60 160 01'
19711: 61,161.00 T 33,341.30	=60,469.04'
11 Shoulder Preparation (60,469.04)	
(0.44444)	=26,875.10 Sq.Yd.
17 Composted Assessation (En 160 nd)	•
11 COMPACTED HYGIEGATE: (OU, 409.04)	-2,799.47 CU.Yd.
- · · // // //////	- c, /99.4/ CU. YO.
(0.046296)	
(0.046296) 491+0663 to Sta 491+3663~(Trans	sition)~
(0.046296) 491+06.63 to Sta. 491+36.63~(Trans	ntion)~ th = 3000 lin Ft
491+06.63 to Sta. 491+36.63~ (Trans	vition)~ th = 30.00 Lin.Ft.
. 49 +06.63 to 5ta 49 +36.63~(Trans Lengt vement~	rtion)~ th = 30.00 Lin.Ft.
491+06.63 to 5ta 491+36.63~(Trans Lengt rement~	rition)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd.
. 49 +06.63 +o 5+a 49 +36.63~(Trans Lengt vemen+~ 48, Type : (2)(24)(0.106482)	ition)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd.
49 +06.63 to 5ta 49 +36.63~(Trans Lengt vement~ 18, Type : (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148)	(ition)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd.
49 +06.63 to 5ta 49 +36.63~(Trans Lengt vement 18, Type : (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333)	(ition)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals.
49 +06.63 to 5ta 49 +36.63~(Trans Lengt 18, Type : (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667)	(ition)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd.
491+06.63 to Sta 491+36.63~(Trans Lengt 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) 18. Shoulder~	(tion)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton
491+06.63 to Sta. 491+36.63~(Trans Lengt 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) de Shoulder~ 18, Type 1: (2)(4)(0.106482)	intion)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd.
491+06.63 to Sta. 491+36.63~(Trans Lengt 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482)	(xfion)~ yh = 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton
491+06.63 to 5ta 491+36.63~(Trans Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) 18. Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023148)	(ifion)~ h = 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd.
191+06.63 to 5ta 491+36.63~ (Transcrement ~ Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 107 Tack Coat: (2)(24)(0.3333333) 107 Cover Aggregate: (2)(24)(0.011667) 108 Shoulder~ 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023/48) 107 Tack Coat: (2)(4)(0.3333333)	intion)~ th = 30.00 Lin.Ft. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 2.67 Gals.
1.49 +06.63 to 5ta.49 +36.63~(Trans Length 18, Type 1: (2)(24)(0.106482) 19. Tack Coat: (2)(24)(0.333333) 10.7 Cover Aggregate: (2)(24)(0.011667) 10.8 Type 1: (2)(4)(0.106482) 10.7 Tack Coat: (2)(4)(0.023148) 10.7 Tack Coat: (2)(4)(0.3333333) 10.7 Cover Aggregate: (2)(4)(0.011667)	(ifion)~ h = 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd.
1.49 +06.63 to 5ta 49 +36.63~(Transvement~ Length 18, Type : (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 107 Tack Coat: (2)(24)(0.333333) 107 Cover Aggregate: (2)(24)(0.011667) 108 Shoulder~ 108 Type 1: (2)(4)(0.106482) 107 Tack Coat: (2)(4)(0.3333333) 107 Cover Aggregate: (2)(4)(0.011667) 15ide Shoulder~	= 5.11 Cu. Yd. = 5.11 Cu. Yd. = 1.11 Cu. Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu. Yd. = 0.19 Cu. Yd. = 2.67 Gals. = 0.00 Ton
1.491+06.63 to 5ta.491+36.63~(Trans Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 107 Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023148) 107 Tack Coat: (2)(4)(0.3333333) 107 Cover Aggregate: (2)(4)(0.011667) 15ide Shoulder~ 148, Type 1: (2)(8)(0.106482)	### 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 2.67 Gals. = 0.09 Ton = 1.70 Cu.Yd.
1.49 +06.63 to Sta.49 +36.63~(Trans Length 148, Type 1: (2)(24)(0.106482) 148, Type 2: (2)(24)(0.023148) 107 Cover Aggregate: (2)(24)(0.011667) 148, Type 1: (2)(4)(0.106482) 148, Type 2: (2)(4)(0.023/48) 107 Cover Aggregate: (2)(4)(0.011667) 151 de Shoulder ~ 1548, Type 1: (2)(8)(0.106482)	= 5.11 Cu. Yd. = 5.11 Cu. Yd. = 1.11 Cu. Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu. Yd. = 0.19 Cu. Yd. = 2.67 Gals. = 0.00 Ton
1.491+06.63 to Sta.491+36.63~(Trans Length 148, Type 1: (2)(24)(0.106482) 148, Type 2: (2)(24)(0.023148) 107 Tack Coat: (2)(24)(0.333333) 107 Cover Aggregate: (2)(24)(0.011667) 148, Type 1: (2)(4)(0.106482) 148, Type 2: (2)(4)(0.023148) 107 Cover Aggregate: (2)(4)(0.011667) 148, Type 1: (2)(8)(0.106482) 148, Type 1: (2)(8)(0.106482)	## 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 2.67 Gals. = 0.09 Ton = 1.70 Cu.Yd. = 0.37 Cu.Yd.
17 Compacted Aggregate: (60,469.04) (0.046296) 19.491+06.63 to Sta. 491+36.63~(Trans- Length 19.48, Type 1: (2)(24)(0.106482) 19.7 Tack Coat: (2)(24)(0.333333) 19.7 Cover Aggregate: (2)(24)(0.011667) 19.8, Type 1: (2)(4)(0.106482) 19.8, Type 2: (2)(4)(0.023148) 19.7 Tack Coat: (2)(4)(0.333333) 19.7 Cover Aggregate: (2)(4)(0.011667) 19.8, Type 2: (2)(8)(0.106482) 19.8, Type 2: (2)(8)(0.023148) 19.7 Tack Coat: (2)(8)(0.0333333)	## = 30.00 Lin.Ff. = 5.1/ Cu.Yd. = 1.1/ Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 2.67 Gals. = 0.00 Ton = 1.70 Cu.Yd. = 0.37 Cu.Yd. = 5.33 Gals.
1. 491+06.63 to 5ta 491+36.63~ (Transvernent~ Length Vernent~ 18, Type 1: (2)(24)(0.106482) 107. Tack Coat: (2)(24)(0.333333) 107. Cover Aggregate: (2)(24)(0.011667) 108, Type 1: (2)(4)(0.106482) 109. Tack Coat: (2)(4)(0.023148) 107. Tack Coat: (2)(4)(0.333333) 107. Cover Aggregate: (2)(4)(0.011667) 1548, Type 1: (2)(8)(0.106482) 108, Type 2: (2)(8)(0.023148) 109. Tack Coat: (2)(8)(0.0333333)	## = 30.00 Lin.Ff. = 5.1/ Cu.Yd. = 1.1/ Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 2.67 Gals. = 0.00 Ton = 1.70 Cu.Yd. = 0.37 Cu.Yd. = 5.33 Gals. = 0.19 Ton
191+06.63 to 5ta 491+36.63~ (Transpersement of Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 107 Tack Coat: (2)(24)(0.333333) 107 Cover Aggregate: (2)(24)(0.011667) 108, Type 1: (2)(4)(0.106482) 107 Tack Coat: (2)(4)(0.023148) 107 Tack Coat: (2)(4)(0.333333) 107 Cover Aggregate: (2)(4)(0.011667) 15 ide Shoulder— 148, Type 1: (2)(8)(0.106482) 148, Type 2: (2)(8)(0.023148) 107 Tack Coat: (2)(8)(0.023148) 107 Tack Coat: (2)(8)(0.0333333)	## = 30.00 Lin.Ff. = 5.11
491+06.63 to 5ta. 491+36.63~(Transferment~ Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023148) 17. Cover Aggregate: (2)(4)(0.011667) 18, Type 1: (2)(8)(0.106482) 18, Type 1: (2)(8)(0.106482) 18, Type 2: (2)(8)(0.023148) 17. Tack Coat: (2)(8)(0.3333333) 17. Cover Aggregate: (2)(8)(0.011667) 19. Shoulder Preparation: (120)(0.444444)	## = 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 0.37 Gu.Yd. = 0.37 Gu.Yd. = 5.33 Gals. = 0.19 Ton = 120.00 Lin.Ff. = 53.33 Sq.Yd.
491+06.63 to Sta. 491+36.63~(Transement~ Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.333333) 17. Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023148) 17. Tack Coat: (2)(4)(0.3333333) 18, Type 1: (2)(8)(0.106482) 18, Type 2: (2)(8)(0.023148) 17. Tack Coat: (2)(8)(0.3333333) 17. Cover Aggregate: (2)(8)(0.011667) 19. Shoulder Preparation: (120)(0.444444)	f(s) = 30.00 Lin.Ff. = 5.1/ Cu.Yd. = 1.1/ Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 0.37 Gu.Yd. = 0.37 Gu.Yd. = 5.33 Gals. = 0.19 Ton = 120.00 Lin.Ff. = 53.33 Sq.Yd.
491+06.63 to Sta. 491+36.63~(Transferment~ Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.3333333) 17. Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023148) 17. Cover Aggregate: (2)(4)(0.011667) 18, Type 1: (2)(8)(0.106482) 18, Type 2: (2)(8)(0.023148) 17. Tack Coat: (2)(8)(0.3333333) 17. Cover Aggregate: (2)(8)(0.011667) 19. Shoulder Preparation: (120)(0.444444)	f(s) = 30.00 Lin.Ff. = 5.1/ Cu.Yd. = 1.1/ Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 0.37 Gu.Yd. = 0.37 Gu.Yd. = 5.33 Gals. = 0.19 Ton = 120.00 Lin.Ff. = 53.33 Sq.Yd.
491+06.63 to Sta. 491+36.63~(Transcement~ Length 18, Type 1: (2)(24)(0.106482) 18, Type 2: (2)(24)(0.023148) 17. Tack Coat: (2)(24)(0.3333333) 17. Cover Aggregate: (2)(24)(0.011667) 18, Type 1: (2)(4)(0.106482) 18, Type 2: (2)(4)(0.023/48) 17. Tack Coat: (2)(4)(0.333333) 17. Cover Aggregate: (2)(4)(0.011667) 18, Type 2: (2)(8)(0.106482) 18, Type 2: (2)(8)(0.023148) 17. Tack Coat: (2)(8)(0.333333)	## = 30.00 Lin.Ff. = 5.11 Cu.Yd. = 1.11 Cu.Yd. = 16.00 Gals. = 0.56 Ton = 0.85 Cu.Yd. = 0.19 Cu.Yd. = 0.37 Gu.Yd. = 0.37 Gu.Yd. = 5.33 Gals. = 0.19 Ton = 120.00 Lin.Ff. = 53.33 Sq.Yd.

	Initials) Date /2/20/83 5 OHIO	65
	Initials Date 12-20-83 VAN WERT COUNTY	
•	Final Revisions By VAN-30-4.05	
	Initials Date	
0.00 Lin.Ft.	Sta. 491 + 36.63 to Sta. 492 + 83.37 ~ Length = 146.74 Lin Structure No. VAN -30-0918 Lt. & Rt.	7./7.
2.00 877.77.	& Existing Overlays ~ No Work	¥
// Cu.Yd.	Sta. 492+83.37 to Sta. 493+13.37 ~ (Transition)~	
11 CU.Yd. 300 Ga/s.	Length = 30.00 Li	in Ft.
00 0a/s. 156 Ton	Pavement~	
r.	848, Type 1 · (2) (24) (0.106482) = 5.11 Cu 848, Type 2 · (2) (24) (0.023148) = 1.11 Cu	
185 Cv. Yd. 19 Cv. Yd.	407 Tack Coat: (2) (24) (0.3333333) = 16.00 Ge	,
. 19 00.10. 1.67 63/5.	407 Cover Aggregate (2)(24)(0.01/667) = 0.56 78	
1.09 Ton	Inside Shoulder~ 848. Type I: (2)(4)(0.106482) = 0.85 C	1184
70 GU.Yd.	848, Type 1: (2)(4)(0.106482) = 0.85 C 848, Type 2: (2)(4)(0.023148) = 0.19 G	
70 00.76. 1.37 CU.Yd	407 Tack Coat (2)(4)(0.3333333) = 2.67 G	
33 62/5	407 Cover Aggregate (2)(4)(0.01/667) = 0.09 78	00
1.19 Ton	Outside Shoutder~ 848, Type / · (2)(8)(0.106482) = 1.70 CD	. YA
20.00 Lin.Ft.	848, Type 2: (2)(8)(0.023148) = 0.37 C2	
.0.00 Un.11. 13.33 Sq. Yd.	407 Tack Coat (2)(8)(0.333333) = 5.33 (a	
•	$407 Cover Aggregate \cdot (2)(8)(0.01/667) = 0.19 78$ Shoulder Recorditioning	
2.78 CU.Yd.	Shoulder Reconditioning ~ Length: 4(30') = 120.00 Li	n.F.
640.19 Lin Ff.	617 Shoulder, Preparation (120) (0.44444) = 53.33 S	9.86
266. 70 CU.Yd.	617 Shoulder Preparation (120) (0.44444)= 53.33 St 617 Compacted Aggregate (120) (0.046296) = 2.78 G	71 Ve/
920.04 GU.Yd.		
108.10 Gals.	Sta 493+ 13.37 to Sta 510 + 30.24 ~ Length = 1,716.87 Li	in.Ft.
29. 29 Tons	Pavement ~ 848, Type 1 · (1,716.87) (0.185185) = 317.94 Cd	186
	848, Type 2. (1,7/6.87) (0.2222222) = 381.53 C	
347.36 Lin.Ft.	407 Tack Coat: (1,7/6.87)(0.5333333) = 9/5.66 0	
14.62 CU.Yd	407 Cover Aggregate: (1,7/6.87)(0.0/8667) = 32.05 7	7/15
7.56 Cu.Yd. 182.09 Gals.	Inside Shoulder~ Length: 2 (1,716.87)-488.34-486.86 = 2,458.54 Ll.	in Ft
1.89 Tons	848, Type 1: (2,458.54) (0.015432) = 37.94 Co	
	848, Type 2 (2,458.54)(0.018519) = 45.53 Cd	
	407 Tack Coat (2,458.54) (0.044444) = 109.27 6, 407 Cover Aggregate (2,458.54) (0.00/556) = 3.83 70	
7/21.68 Lin.Ft.	407 Cover Aggregate (2,458.54) (0.001556) = 3.83 To Outside Shoulder ~	
337.08 Cu.Yd.	Length 2 (1,716.87)-131.97-129.90 =3,171.87 L	
004.51 Cu. Yd.	$848 \text{ Type'l} \cdot (3,171.87)(0.030864) = 97.90 \text{ Geometric } $ $848 \text{ Type } 2 \cdot (3,171.87)(0.037037) = 1/7.48 \text{ Geometric } $	
410.82 Gals.	848 Type 2 · (3,171.87) (0.037037) = 1/7.48 G 407 Tack Coat · (3,171.38) (0.088889) = 281.94 G	
84.38 Tons	407 Cover Aggregate (3/71.38)(0.003111) = 9.87 70	
0,469.04'	Shoulder Reconditioning~ Length: 2,458.54 + 3,171.87 = 5,630.41 L	in Ff
A	Length: 2,458.54 + 3,171.87 = 5,630.41 L 617 Shoulder Preparation: (5,630.41)(0.44444)=2,502.40 S 617 Compacted Aggregate: (5,630.41) (0.046296) = 260.67 C	ii, i t. G. Yd.
875.10 Sq.Yd.	617 Compacted Aggregate (5,630.41) (0.046296) = 260.67 Co	v. Yd.
799.47 Cu. Yd.	Sta. 510 +30. 24 to Sta. 510 + 60.24 ~ (Transition)~	
<u></u>	Length = 30.00 Li	nrt.
0.00 Lin.Ff.	848, Type 1: (2) (24) (0.106482) = 5.11 Co	V. Yd.
	848, Type 2 (2) (24) (0.023148) = 1.1/ G	
5.11 CU.Yd.	407 Tack Cost (2)(24)(0.3333333) = 16.00 0 407 Cover Apprepate (2)(24)(0.01/667) = 0.56 7	
1.11 Cu.Yd. 6.00 Gals.	407 Cover Aggregate (2)(24)(0.01/667) = 0.56 78 Inside Shoulder~	
0.56 Ton	848, Type /: (2)(4)(0.106482) = 0.85 G	
0.05 (848, Type 2: (2) (4) (0.023/48) = 0.19 Co	
0.85 Cu.Yd. 0.19 Cu.Yd.	407 Tack Coat (2)(4)(0.3333333) = 2.67 0 407 Cover Aggregate (2)(4)(0.0/1667) = 0.09 7	
2.67 Gals.	Outside Shoulder ~	- • •
0.09 Ton	848, Type 1: (2)(8)(0.106482) = 1.70 Cd	
1.70 CU.Yd.	$848, \text{ Type 2 · (2)(8)(0.023/48)} = 0.37 \text{ Cost} $ $407 \text{ Tack Cost} \cdot (2)(8)(0.3333333) = 5.33 \text{ Cost} $	_ /
0.37 Gu.Yd.	407 Pack Coar (2)(0)(0.555555) = 0.19 7	
5.33 Gals.	Shoulder Reconditioning~	
0.19 Ton	= (2000)	in rt.
20.00 Lin. Ft. 53.33 Sq. Yd.	617 Shoulder Preparation: (120)(0.444444) = 53.33 5 617 Compacted Aggregate: (120)(0.046296)(1/2)= 2.78 C	1. Yd.
	5 5 ta 5/0 + 60 C4 to 5 ta 5/2 + 19.70 ~ CE/19771 = 15952 CI	in.Ft.
2.78 Cu.Yd.	Structure No. VAN-30-0955 Lt. & Rt.	
	& Existing Overlays ~ No Work	

PAVEMENT COMPUTATIONS

Sta 570 + 01.53 to Sta 571 + 56.85 ~ Length =	= 155.32 Un Ft
(Resurfacing under Structure No. VAN -30 -1060	
Pavement ~ (Cont.) ~ 848, Type 1: (1.25)(1/12)(155.32)(48)(1/27)	= 28.76 Cu.Yd.
- 407 Tack Coat : (48)(155.32)(1/9)(0.10)	82.84 Gals.
407 Cover Aggregate (48)(155.32)(1/9)(7/2000)=	= 2.90 Tons
Inside Shoutder ~ 848, Type 1: (1.25)(1/12)(155.32)(4)(2)(1/27) =	= 4.79 CU.Yd.
407 Tack Coat (4)(155.32)(2)(1/9)(0.10)	- 13.81 Gals.
407 Cover Aggregate: (4) (155.32)(2)(1/9)	= 0.48 Ton
Outside Shoulder~	
848, Type 1 : (1.25)(1/12) (155.32)(8) (1/27)	= 479 CUYd
407 Tack Coaf: (8) (155.32) (1/9) (0.10) 407 Çover Aggregate: (8) (155.32) (1/9) (7/2000) =	= 13.81 Gals = 0.48 Ton
Shoulder Reconditioning~	
	= 465.96 Lin.Ft. = 207.00 Go.Vd
617 Shoulder Preparation (465.96) (0.444444) = 617 Compacted Aggregate (2.25) (1/12) (4)	
617 Compacted 'Aggregate': (2.25)(1/12)(4) (465.96)(1/27)	= 12.94 CUYd.
Sta. 571 + 56.85 to Sta. 572 + 31.85 ~ (Transition)	
Length =	= 75.00 Lin.Ft.
Pavement ~ 848, Type I : (48)((25)(1.25)(1/12) + (2.25 + 1.25)(1/2)	3
(1/12)(50)7(1/27) (1/12)(50)7(1/27)(1/2)(1/27)	= 17.59 Cu.Yd
848, Type 2: ([+ 1.50]([[2]([]]([2]([2]([46]([[2]))) = =	= 4.63 CU.Yd. = 40.00 Ga/s.
	= 140 Tons
1//5/08 3/100/08/	99
	= 2.93 CUYd
848, Type 2 : (1+1.50)(1/2)(1/12)(25)(8)(1/27)	= 0.77 CU.Yd.
	= 6.67 Gals. = 0.23 Ton
Outside Shoulder~	
848, Type 1: (8) [(25) (1.25) (1/12) + (2.25 + 1.25)	- 202 CW
(1/2)(1/12)(30)) (1/27) 848, Type 2: (1+1.25)(1/2)(1/12)(25)(8)(1/27) =	= 2.93 Cu.Yd. = 0.77 Cu.Yd.
40/ 1ack (0at (8) (19) (1/9) (0.10)	<i>- 6.67 Gals</i> .
	= 0.23 Ton
Shoulder Reconditioning~ Length: (3)(75)	= 225.00 Lin.Ft
617 Shoulder Preparation (225) (0.444444) = 617 Compacted Aggregated (3.75) (1/12) (4) + (2.6	- 100.00 Sq.Yd
617 Compacted Aggregated : ((3.75)(1/12)(4) + (2.6	<i>[3]</i>
(1/27) (1/2) (1/2) = = = = = = = = = = = = = = = = = = =	- 833 CU.Yd.
$-i\delta t_{ij}$	=2,630.65 Lin.Ff.
Pavement~	= 487.16 Cu Yd.
	= 584.59 Cv. Yd.
407 Tack Coat: (2,630.65)(0.5333333)	=1,403.01 Gals.
407 Cover Aggregate: (2,630.65)(0.0/8667) = Inside Shoulder ~	= 49.11 Tons
Length (2)(2,630.65)	= 5,261.30 Lin. Ft.
	= 81.19 Cu. Yd. = 97.43 Cu. Yd.
	= 233.83 Gals.
407 Cover Aggregate (5,261.30) (0.00/556) :	= 8.19 Tons
Outside Shoulder~ Length: (2)(2,630.65)-501.75-902.13-1,641.48	- 2,215.94 Lin.Ft
848, Type 1: (2,215.94)(0.030864)	= 68.39 Cu.Yd.
848, Type2: (2,215.94) (0.037037)	= 82:07 Cu.Yd. = 196:97 Gals.
	= 190 97 0015. = 6.89 Tons
Shoulder Reconditioning~	Fasting &
Length : 5, 261.30 + 2,215.94 617 Shoulder Preparation : (7,477.24) (0,444444)	= 7,477.24 lin.Ft)=3,323.21 Sq.Yd
617 Compacted Aggregate: (7,477.24)	
(0.046296) Sta. 598 +62.50 to Sta. 600 + 00.00 ~ (Transity	= 346.17 Cu.Yd. ion}~
Length	- 137.50 Lin.Ft.
Pavement~	**************************************

= 34.95 Cu. Yd.

U.S.R.30 ~ Mainline ~ (Cont.) ~ Sta. 512 + 19.76 to Sta. 512 + 49.76 ~ (Transition) ~

848, Type 1: (2)(24)(0.106482) 848, Type 2: (2)(24)(0.023148) 407 Tack Coat: (2)(24)(0.3333333) 407 Cover Aggregate: (2)(24)(0.011667) Inside Shoulder

848, Type 1 · (2)(4)(0.106482) 848, Type 2 · (2)(4)(0.023/48) 407 Tack Coat · (2)(4)(0.3333333) 407 Cover Aggregate · (2)(4)(0.01/667) Outside Shoulder ~

848, Type 1: (2)(8)(0.106482) 848, Type 2: (2)(8)(0.023148) 407 Tack Coat: (2)(8)(0.3333333) 407 Cover Aggregate: (2)(8)(0.011667) Shoulder Reconditioning~

Length: 2 (5,676.77)-2(486.14)

Length · 10,381.26 + 9,553.57

Pavement~

848, Type 1 · (10,381.26) (0.015432) 848, Type 2 · (10,381.26) (0.018519) 407 Tack Coat · (10,381.26) (0.044444)

407 Cover Aggregate (10,381.26) (0.001556)
Outside Shoulder~

Length: 2 (5,676.77) - 130.52 - 130.46 - 750.46

617 Compacted Aggregate (19,934.83) (0.046296)

848, Type 1 : (48) [(25)(1.25)(1/12) + (2.25 + 1.25) (1/2) (1/12) (50) (1/27)

848, Type 2: (1+1.50)(1/2)(1/12)(25)(48)(1/27) 407 Tack Coat: (48)(75) (1/9)(0.10) 407 Cover Aggregate: (48)(75)(1/9)(7/2000) Inside Shoulder

848, Type 2: (1+1.25) (1/2) (1/12) (25) (8) (1/27)
407 Tack Coat: (8) (75) (1/9) (0.10)
407 Cover Aggregate: (8) (75) (1/9) (7/2000)
Shoulder Reconditioning~
Length: (3) (75.00)

617 Compacted Aggregate: [(3.75)(1112)(4)

Sta. 569+ 26.53 to Sta. 570+ 01.53~ (Transition)~

Length: 4 (30') = 120.00 Lin.Ft. 617 Shoulder Preparation: (120) (0.444444) = 53.33 Sq.Yd. 617 Compacted Aggregate: (120) (0.046296)(112) = 2.78 Cu.Yd. Sta. 512+49, 76 to Sta. 569+26.53~ Length = \$676.77 Lin.Ft.

848, Type 1: (5,676.77) (0.185185) = 1,051.25 Cu.Yd. 848, Type 2: (5,676.77) (0.2222222) = 1,261.50 Cu.Yd. 407 Tack Coat: (5,676.77) (0.5333333) = 3,027.61 Gals. 407 Cover Aggregate: (5,676.77) (0.018667) = 105.91 Tons Inside Shoulder

848, Type |: (9,553.57) (0.030864) = 294.86 Cu.Yd. 848, Type 2: (9,553.57) (0.037037) = 353.84 Cu.Yd. 407 Tack Coat: (9,553.57) (0.088889) = 849.21 Cals. 407 Cover Aggregate: (9,553.57) (0.003///) = 29.72 Tons Shoulder Reconditioning - 10.02182 (in El

617 Shoulder Preparation (19,934.83) (0.44444) =8,859.92 Sq. Yd.

Inside Shoulder~ 848, Type I: (8) [(25)(1.25)(1/12)+(2.25+1.25) (1/2)(1/12)(50)](1/27) = 2.93 Cu. Yd. 848, Type 2: (1+1.50)(1/2)(1/12)(25)(8)(1/27) = 0.77 Cu. Yd. 407 Tack Coat: (2)(4)(75)(1/9)(0.10) = 6.67 Gals. 407 Cover Aggregate: (2)(4)(75)(1/9)(7/2000)= 0.23 Ton Outside Shoulder~ 840 Target: (8) [(25)(1/25)(1/2)+(2.25+1.25)(1/2)

617 Shoulder Preparation: (225.00)(0.444444)=100.00 Sq.Yd.

+ (2.25) (1/12) (4)] (1/2) (75) (3) (1/27)

Pavement~

Pavement

Length = 30.00 Lin.Ft.

= 5.11 Cu.Yd. = 1.11 CU.Yd. = 16.00 62/5.

= 0.56 Ton

= 0.85 Cu.Yd. = 0.19 Cu. Yd. = 2.67 Ga/5. = 0.09 Ton

= 1.70 CU.Yd = 0.37 Cu. Yd. = 5.33 Gals.

= 0.19 Ton

=10,381.26 Lin. Ft.

= 160.20 GU. Yd. = 192.25 CU.Yd. = 461.38 Gals.

= 16.15 Tons

=9553.57 Lin. Ft.

=19,934.83 LinFt.

= 17.59 Cu. Yd.

= 4.63 Cu. Yd. = 40.00 Gals. = 1.40 Tons

= 0.77 Cu. Yd.

= 2.93 Cu.Yd.

= 0.77 CU.Yd. = 6.67 Gals. = 0.23 Ton

= 225.00 Lin. Ft.

= 8.33 Cu. Yd.

Pavement~ 848, Type 1 · (2) (24) (0.728202)

Length = 75.00 Lin. Ft.

Date /2/20/8 Computations Checked By Initials Date 12-20-83 Fina Revisions By

FHWA REGION 65 STATE OHIO 5

VAN WERT COUNTY VAN-30-4.05

Pavement ~ (C 848, Type 2: 407 Tack Co 407 Cover A	(2)(24)(0.096451) pat: (2)(24)(1.527) Iggregate: (2)(24	1) 7778)	= 4.63 Cu. Yd. = 73.33 Gals. = 2.57 Tons	
848, Type 2 (407 Tack Co 407 Cover A	(2)(4)(0.728202) (2)(4)(0.096451) (2)(4)(1.5277) 199regate : (2)(4)(778) (0.053472)	= 5.83 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Gals. = 0.43 Ton	
848, Type 2 407 Tack C 407 Cover A	11der~ (2)(8)(0.728202) (2)(8)(0.096451) Toat (2)(8)(1.527) Aggregate (2)(8) Conditioning~	778) (0.053472)	= 11.65 Cu.Yd. = 1.54 Cu.Yd. = 24.44 Gals. = 0.86 Ton	*
Length (4)(15 617 Shoulde 617 Compact	(37.50) er Preparation (ted Aggregate:	(550) (0.046296) (1/2)	= 12.73 Cu.Yd.	
EUC WEER HIG	r Course Remove	(1/9)	=500.00 59.76.	
			*	
			*	
				•

PAVEMENT COMPUTATIONS US.R.30

6.R. 30~ (Ramps)~	in the state of th	Weigh Station ~ Ramp "B"~ (Cont.)~	
leigh Station ~ Ramp "A"~		Sta. 347+ 70.72 to Sta. 348+81.18~(Trans.	ition)~(Cont)~
ta. 330 + 09.87 to 5ta. 341 + 85.62	;	Shoulder Transition ~ (Cont.)~	
Pavement~_		100 Cover Socrepate: (6)(0012778)	= 0.26 70
Area · (1/9)[(1/2)(12)(100) + (12)(245.27) + 1/2 (3,831.7	72)	407 Cover Aggregate: (6)(0.042778) Shoulder Reconditioning~	0.20 70
(456.63) - 1/2 (1.90) (15.94) - (6.796/360) 77		Length: 109.30 + 110.69	= 219.99 [11
(3819.72) 2 + (16) (361.78) + (16) (16.17)]	=2,124.47 Sq. Yd.	617 Shoulder Preparation (219.99)(2)(1/9)	= 48.89 Sq
848, Type 1: (2,124.47)(1.25)(1/36)	= 73.77 Cu. Yd.	617 Compacted Aggregate: (219.99)(2)(1)	(<u>(4)</u>
848, Type 2: (2,124.47)(1.50)(1/36)	= 88.52 Cu. Yd.	(3.75)(1/36)(1/8	(2) = 2.55 CV
407 Tack Coat : (2,124,47)(0.10)	= 212.45 Gals.		
407 Cover Aggregate (2,124.47)(7/2000)	= 7.44 Tons	5ta. 348 + 81.18 to 5ta. 355 + 50.00 ~	
Shoulders ~		Pavement ~	-118000
Area · ([/9][(100.72 + 245.27 + 456.15](8) + ([/2](3+6	<i>(8</i>)	Area: (16)(284.71 + 253.74 + 130.35)(1/9)	= 1,188.98 Sq = 41.28 Cd
(99.86) + (3)(378.58 + 277.35)]	<i>= 992.68 59.7d.</i>	848, Type 1: (1.25)(1/36)(1,188.98)	= 40.54 CC
848, Type 1: (992.68) (1.25) (1/36)	= 34.47 Cu. Yd.	848, Type 2: (1.50)(1/36)(1,188.98)	= 118.90 G
848, Type 2: (992.68) (1.50) (1/36)	= 41.36 CU.Yd.	407 Tack Coat : (1,188.98) (0.10) 407 Cover Aggregate : (1,188.98) (7/2000)	= 4.16 To
407 Tack Coat: (992.68)(0.10)	= 99.C7 Gals.	Shoulder ~ (3")~	4.70 70
407 Cover Aggregate: (992.68)(7/2000)	= 3.47 Tons	Area : (3) [2 (284.71) + 253.11 + 254.37 + 12.	2970
407 Cover Aggregate: (992.68)(7/2000) Thoulder Reconditioning~		+ 131.00] (1/9)	= 445.87 50
ength of 4' Reconditioning : 100.72 + 245.21	7	Area of Curb Removal: (8/12)(204.04)(1/9)	
+ 456.15	=802.14 Lin.Ft.	848, Type 1: (1.25)(1/36)(445.87+15.11)	= 16.01 60
ength of Transition: ength of 2' Reconditioning: 260.92+16.43	= 99.86 Lin.Ft.	848, Type 2: (1.50)(1/36)(445.87+15.11)	= 19.21 00
ength of 2' Reconditioning : 260.92 + 16.43		407 Tack Coat : (445.87)(0.10)	= 44.59 62
#30C.6/ #19.91	=655.93 Lin.Ft.	407 Cover Aggregate: (445.87)(7/2000)	
6/7 Shoulder Preparation (19) (4) (802.14) + (1	(16)	Shoulder Reconditioning~	gradie Allender of the state of
(2+4)(99.86)+(2)	- FOF FC G-VH	Length : 2 (284.71) + 253.11 + 50.47 + 129.70	
(655.93)/ 617 (2000-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	=535.56 Sq.\d.	+131.00	= 1,133,10 41
617 Compacted Aggregate (3.75)(1/36)(535.5	00]=00.	617 Shoulder Preparation (1,133.70)(2)((/9) = 25/93 90
ta.34 + 85.62 to Sta.342 + 97. ~(Transition	ion)~	617 Shoulder Preparation: (1,133.70)(2)(1 617 Compacted Aggregate: (251.93)(3.75)((1/36)= 26.24 Q
	h = 110.00 Lin.Ft.	Sta. 355+50.00 to Sta. 360+00.00~	
Pavement Transition~		Pavement~	
848, Type / · (16) (0.389661)	= 6.23 Cu. Yd.	Area · ((16) (50.10) + (17) (100.16) + (16) (300.06)	0)(1/9)= 811.70 50
848, Type 2: (16) (0.077/61)	= 1.23 Cu.Yd.	848, Type 1: (1.25)(1/36)(8/1.70)	= 28.18 0
407 Tack Coat (16) (1. 222222)	= 19.56 Gals.	848, Type 2 (1.50)(1/36)(811.70)	= 33.82 00
407 Cover Aggregate (16)(0.042778)	= 0.68 Ton	407 Tack Coat: (8/1.70) (0.10)	= 81.17 6
Phoulder Transition~	- 221 Culd	407 Cover Aggregate: (811.70)(7/2000)	= 2.84 70
848, Type /: (6) (0.389661)	=	Shoulder ~ (Lt.)~	# 60.
848, Type 2: (6)(0.077/6/)	= 7.33 Ga/s.	Area of Gore Shoulder & Curb : ((1/2)(151.32	<i>?</i>)
407 Tack Coat: (6) (1.222222)	= 0.26 Ton	(3,850.97)-(1/2)(18)(0.71)-(2.6	
407 Cover Aggregate: (6)(0.042778) Shoulder Reconditioning~	- 0.20 /0//	7 (3837.22) 2 + (1/2) (15.25 + 1/2	
ength: 112.23 +107.77	= 220.00 Lin. Ft.	(300)/(1/9)	= 701.54 59
617 Shoulder Preparation (220.00) (2) (19)	= 48.89 59.46.	Area of Curb Removal : ((1/2)(6+3)(200)+(3	7)
6/7 Compacted Aggregate (220.00)(2)(1/9)	7)	(250.80)/(1/9)	= 183.60 59
(3.75)(1/36)(1/2)	= 2.55 CU.Yd.	Area of 3' to 2' Taper (1/2)(3+2)(50.23)(1/9	9) = 13.95 59
		848, Type 1: (1.25)(1/36)(183.60 + 13.95) + (1/2)(. (1/36)(701.54 - 183.60)	3+1)
leigh Station ~ Ramp "A" ~ Summary ~ Pavement ~		(1/36) (701.54 - 183.60)	= 35.63 (2
848, Type 1: 73.77 + 6.23	= 80.00 Cu. Yd.	848, Type 2: (1.50) (1/36) (183.60 + 13.95)	= 8.23 Co
848 Type 2: 88.52 + 1.23	= 89.75 Gu. Yd.	407 Tack Coat: (701.54-183.60+13.95)(0.1	10) = 53.19 Ge
407 Tack Coat: 212.45 + 19.56	= 232.01 Gals.	407 Cover Aggregate (701.54-183.60+1	(3.95) - 1.86 7
407 Cover Aggregate: 7.44 + 0.68	= 8.12 Tons	(1/200)	= 1.86 70
Phoulders~		Shoulder ~ (Rf.)~ 1-00: (10) ((12)(3+8)(100,72)+(8)(300,06)7	' = 358.22 S
848, Type 1: 34.47 + 2.34	= 36.81 CuYd.	Area · ([/9] [([/2] (3+8] ([49.72] + (8) (300.06)] 848, Type · ([.25] ([/36] (358.22)	= 12.44 C
848, Type 2: 41.36 + 0.46	= 41.82 Cu. Yd.	848, Type 2: (1.50) (1/36) (358.22)	= 14.93 6
407 Tack Coat: 99.27 + 7.33	= 106.60 68/5.	407 Tack Coat (358.22) (0.10)	= 35 82 G
407 Cover Aggregate: 3.47 + 0.26	= 3.73 Tons	407 Cover Dooren ste (358 22) (7/2000	
Shoulder Reconditioning~		407 Cover Aggregate (358.22)(7/2000) Shoulder Reconditioning~	
617 Shoulder Preparation: 535.56 + 48.83	9 = 584.45 59.76	Length of Transition	= 149.72 (1)
617 Compacted Aggregate: 55.79 + 2.55	= 58.34 Cu. Yd.	Length of 4' Reconditioning	= 300.06 LI
leigh Station ~ Ramp "B"~		617 Shoulder Preparation: (1/2)(2+4)(149.	
ta 347 + 70.72 to Sta 348 + 81.18 ~ (Transi	rtion)~	(1,19)+(300.06)(0.44	4444)=183.27 5
Lengi	th= 110.00 Cin.Ft.	617 Compacted Aggregate: (183.27) (3.75) (1/3	76) = 19.09 (d
Pavement Transition~		5+a. 360+00.00 to 5+a. 372+00.00	grande de la companya
848, Type / : (16) (0.389661)	= 6.23 Cu. Yd.	Pavement~	@ a
848, Type 2: (16)(0.077161)	= 1.23 CU.Yd.	Area (1/2)(25)(1,200)(1/9)	= 1,666.67 5
407 Tack Coat: (16) (1.222222)	= 19.56 Gals.	848, Type 1: (1.25)(1/36)(1,666.67)	= 57.87 60
407 Cover Aggregate: (16)(0.042778)	= 0.68 Ton	848, Type 2: (1.50)(1/36)(1,666.67)	= 69.44 G
nnoulder Iransition ~	221 2 111	407 Tack Coat: (1,666.67)(0.10)	= 166.67 6
848, Type /: (6) (0.389661)	= 2.34 CU.Yd.	407 Cover Aggregate: (1,666.67)(7/200 Shoulder ~ (Rt) ~	10) = 5.83 70
848, Type 2: (6)(0.077161) 407 Tack Coat: (6)(1.2222222)	= 0.46 CU.Yd.	Shoulder ~ (Rf.)~	
401 17CK LOTT: (0)(1.CCCCCC)	= 7.33 Gals.	lenoth: \(\(\(\)(\(\)(\))\(\)2+(\(\)(\)\(\)	=12002611

ta 360	1+00.00 to 5ta 372+00.00 ~ (Cont.)~	
Shoule	der~(Rt.)~	•
848.	Type 1 · (1,200.26)(0.030864)	= 37.04 Cu.Yd.
848.	Type 2: (1,200.26)(0.037037)	= 44.45 Cu.Yd.
107	Tack Coat: (1,200.26)(0.088889)	=106.69 62/5.
107	Cover Aggregate: (1,200.26) (0.003111)	= 3.73 Tons
360116	der Reconditioning~	0.70 10/13
//////////////////////////////////////	161 KECO1101110111119	- 1200 26/in Et
ENGTI	4: N(1,200) 2+ (25) 2	=1,200.26 Lin.Ft.
01/	Shoulder Preparation (1,200.20)(0.444444)	= 000.40 00.10. - 56.57 CiVe/
01/	Shoulder Preparation (1,200.26)(0.444444) Compacted Aggregate (1,200.26)(0.046296)	1- 35.37 60.70.
Peigh	Station ~ Ramp "B"~ Summary~	
Daven	nent~	
	والمنافذ وال	= 133.56 Cu.Yd.
	Type 1: 6.23 + 41.28 + 28.18 + 51.81	· · · · · · · · · · · · · · · · · · ·
	Type 2: 1.23 + 49.54 + 33.82 + 69.44	= 154.03 CU.Yd.
	Tack Coat . 19.56 + 118.90 + 81.17 + 166.67	= 386.30 6a/s.
407	Cover Aggregate: 0.68 + 4.16 + 2.84 + 5.83	= 13.51 Tons
Phoule	ders~	
848,	Type/: 2.34 + 16.01 + 35.63 + 12.44 + 37.04	= 103.46 CU.Yd.
848	Type 2: 0.46 + 19.21 + 8.23 + 14.93 + 44.45	= 87.28 Cu.Yd
107	Tack Coat : 7.33 + 44.59 + 53.19 + 35.82	
		= 247.62 Ga/s.
107	Course 100.03	- 247.02 00/3.
40/	† 106.69 Cover Aggregate: 0.26 † 1.56 † 1.86 † 1.25 † 3.73	966 -
.	+5.13	= 0.00 10115
Phoule	der Reconditioning~ Shoulder Preparation: 48.89 + 251.93	
617	Shoulder Preparation: 48.89 + 251.93	
	+183.27+533.45	=1,017.54 50.76
617	Compacted Aggregate 2.55 + 26.24	
	+ 19.09 + 55.57	= 103 05 Cival
		100.70 00.10.
25 f H	Area ~ Ramp 'A" ~	
ta 4	28 + 02.47 to 5ta. 440 + 02.47	
_	nent~	• • • • • • • • • • • • • • • • • • •
	· (1/9) (1/2) (1, 200) (25)	= 1,666.67 59.46.
4/60	T (1/3) (1/6) (1/36) (1/36) (1/36) (1/36)	
040,	Type 1: (1.25) (1/36) (1,666.67)	= 57.87 Cu. Yd.
848,	Type 2: (1.50)(1/36) (1,666.67)	= 69.44 Cu. Yd.
407	Tack Coat (1,666.67) (0.10)	= 166.67 Gals.
407	Cover Aggregate (1,666.67)(7/2000)	= 5.83 Tons
	der~(L7)~(8)~	8.
	4. N (1,200) 2+ (25)2	=1,200.26 Lin. Ft.
818	Type 1: (1,200.26)(0.030864)	= 37.04 Cu. Yd.
212	Type 2: (1,200.26) (0.037037)	= 44.45 CU.Yd.
107	Fol (0-1. (1200 26) (0.001)	= 106.69 Gals.
401	Tack Coat (1,200.26) (0.088889)	
407	Cover Aggregate (1,200.26)(0.003111)	= 3.73 Tons
Thould	der Reconditioning~	
1.0197	4h · V (1,200)2+(25)2	=1,200.26 Lin. Ft.
617	Shoulder Preparation: (1,200.26)	
en e e f	(0.444444)	=533.45 Sq.Yd.
617	Compacted Angrenate: (1200 26)	200.40 09.70.
01 /	Compacted Aggregate (1,200.26) (0.046296)	= 55.57 Cu. Yd.
	•	— JJ. J/ W. 70.
ta. ac	40 + 02.47 to Sta. 446 + 48.72~	
Paven	nent~	
Ares	· ([]9][([5](300.06) + ([7)(200.37) + ([6)	
mi ca	(1/6/51)	= 1120 M G VL
020	(146,51)]	= 1,139.04 59.7d. - 30.66 C.Vd
040,	Type 1: (1.25) (1/36) (1,139.04)	= 39.55 Cu.Yd.
048,	Type 2 (1.50) (1/36) (1,139.04)	= 47.46 CU.Yd.
407	Tack Coat (1,139.04) (0.10)	= 13.90 6a 5.
407	Cover Aggregate (1,139.04) (7/2000)	= 3.99 Tons
วิทอบไ	der ~ (If.) ~ Varies~	
Aros	. (1/9) ((8)(300.06 + 137.39)+(1/2)(8+3)(99.79)+(3)((08.68)=486.05 So Yel
RAR	Type 1: (1.25)(1/36)(486.05)	= 16.88 CU.Yd.
PAD	Ting 2: (160) (1/26) (186 06)	= 20.25 Cu.Yd.
140,	Type 2 (1.50) (1/36) (486.05)	
401	Tack Coat (486.05) (0.10)	= 48.6/ Gals.
407	Cover Aggregate (486.05)(7/2000)	= 1.70 Tons
ก็ทอบได้	der ~ (Rf.) ~ Varies ~	
Area	of 3' Shoulder (3) (99.10) (1/9)	= 33.03 Sq. Yd.
Area	of 3' to 2' Transition (1/2)(3+2)(48:31)(1/9	
Aron	of Gore Shoulder & Curb (1/9)[(1/2)(1/+15.25	5)
MI CO		
	(300) + (1/2) (15.25 + 18.50)	· • • • • • • • • • • • • • • • • • • •
•	(15.25 + 18.50)	= 760 11 G Vd
	(171.54)	= 759.14 5q. Yd.
Area	of 3' Curb Removal : (3) (171.54+300.06)	/
(, ,))))		=157.20 Sq.Yd.

	Computations Checked By	2 OHIO			60
	Initials Date 12-20-83 Final Revisions By	VAN WERT COUNTY	•		
•	Initials Date	VAN-30-4.05			
Sta	1. 440+02.47 to 5ta. 446	5+4872~ (Cont)~			
	roulder ~ (Rt.) ~ Varies ~ (C				
A	rea of 8" Curb Removal	· (8/12) (176.17) (1/9)	= 13.0	15 Sq. Yd.	
0	848, Type : (1.25) (1/36) (157.	20 + 13.42 + 33.03 (24) (1/20) (260 14 162.20		02 6.16	*
	848, Type 2 : (1.50) (1/36) (15	(3+1) (1/36) (759.14-157.20) 57.20 + 13.02 + 33.03	y= 40.8	d/ CO.YO.	
	+13.05)	7.20 10.42 00.00	= 9.0	13 CU.Yd.	* .
. 4	407 Tack Coat (759.14-,	157.20 + 33.03 + 13.42))	•	
\$ · · · · · · · · · · · · · · · · · · ·	(0.10)	50 11 - 157 20 4 22 02	= 64.0	84 Gals.	
•	407 Cover Aggregate: (73 +1.	13.42)(7/2000)	= 22	7 Tons	
51	houlder Reconditioning	~	•	i ve T	
Le	ength of 4' Recondition	ning: 300.06+137.39			·
	ength of 4 to 2' Transition			79 Lin.Ff. 68 Lin.Ff.	•
	ength of 2' Recondition 617 Shoulder Preparation	1119 n : (437.45) (0.44.444.		00 [///./1.	
	+(1/2)(4+2)(9.	9.79) (1/9) + (2) (108.68)			4
	(1/9)		= 25/.	84 Sq. Yd.	
	617 Compacted Aggrega	ate (251.84)(3.75)(1/36)	i)= 26.	23 Cu.Yd.	}
	, a. 446 + 48,72 to 5ta. 44		200		
	J. 770 TO, 16 10 010. 44	Length	r = 1/0.0	00 Lin.Ff.	*
Po	evement Transition~		,	•	•
4	848, Type · (16) (0.38966),	<i>(</i>)		3 CUYd	
	848, Type 2 · (16) (0.077161) 407 Tack Coat · (16) (1.222) 2222)		3	
	407 Cover Aggregate ((6) (0.042778)		18 Ton	
5h	407 Cover Aggregate (I coulder Transition~				
A	Trea in Curb Removal: (8)	(12) (39.34) (1/9)		7/ <i>59.</i> 46	·
	848, Type : (6)(0.389660) 848, Type 2: (6)(0.077/6	60) + (1.25)(1/36)(2.91) 60) + (1.60)(1/36)(2.91)		14 Cv. Yd. 58 Cv. Yd.	,
	407 Tack Coat: (6) (1.22	90)		33 Gals.	6
,	407 Cover Aggregate:	(6) (0.042778)		26 Ton	
51.	houlder Reconditioning				•
Le	ength: (2)(110.00) - 39.34			66 Lin.Ff.	
	617 Shoulder Preparati	ion: (2)(180.66)(1/9)	=40.	15 5q. Yd.	•
· •	617 Compacted Aggrega	(3.75)(1/36)(1/2)	= 2.0	09 Cu.Yd.	/ • • • • • • • • • • • • • • • • • • •
Res	st Area ~ Ramp "A"~ Su	nnary~			
and the second s	evenent~ 818 Type 1: 623 + 6787+	2055	= 1/12	65 Cu. Yd.	<i>'</i>
	848, Type 6.23 + 57.87 + 848, Type 2 23 + 69.44 ;	+ 47.46		13 CU.Yd.	
	407 Tack Coat: 19.56 +			0.13 Gals.	
!	407 Cover Aggregate:			50 Tons	
	houlders~	14 16 88 4 10 07	- 07	33 CU.Yd.	, 5
	848, Type : 2.44 + 37.04 848, Type 2: 0.58 + 44.45	+ 10.00 + 40.97 5+ 20 25 + 9.03		33 CU.Yd.	
/	407 Tack Coat: 7.33+1	106.69 + 48.6 + 64.84	=227	147 Gals.	*
	407 Cover Aggregate . C.	26 + 3.73+ 1.70 + 2.27	r'=7	96 Tons	Y
51	houlder Reconditioning	~ lian 10 15 4 522 154 251 8	1 00	5 11 CoVd	,
	617 Shoulder Preparat. 617 Compacted Aggrega.	101) : 40.15	4= 063 3= 83	0.44 SG.10. 189 (1) Yet	
,	ott compacted aggrega. 54 Area ~ Ramp "B"~	76 · 6.00 · 00.07 · 60.60) — 00;	00.70.	
	57 AVES ~ KAMP B ~ a. 452 + 64.5/ +0 Sta. 43	53 + 75 46 ~ (Transit	(nn)~		•
	0. 456 - 04.51 - 10 - 010. 45	Length	h= //0.	00 Lin.Ft.	
P	Pavement Transition~				
	848, Type 1: (16) (0.3896	(6/)		23 Cu. Yd.	
	848, Type 2: (16) (0.077)	(6/)		23	
,	407 Tack Coat: (16)(1.2.	(6) (0 012778)		56 Gals. 68 Ton	
5/	houlder Transition~	(10) (0.042110)	<i>- 0.</i> 6		
	848, Type 1: (6) (0.38966)		= 2.	34 CU.Yd.	
•	848, Type 2 (6)(0.077/6)	<i>(</i>)		46 Cu. Yd.	
	407 Tack Coat (6) (1.6	727272)		33 Gals.	ÿ
· 6	407 Cover Aggregate: (houlder Reconditioning	b)(U.U4C//b)	= O .	26 Ton	
	enath = 220 00 (in Ff				
					· · · · · · · · · · · · · · · · · · ·
,		(1/9)	=48	.89 Sq.Yd.	
	6/7 Compacted Aggreg	12/e (220.00)(2)(1/9 276\/1/2c\/1/9	//)= 24	55 C.V.	
	617 Shoulder Prepara 617 Compacted Aggreg	(2.12)(1130)(114)	· — C.3	,	
	•		100		

PAVEMENT COMPUTATIONS U.S.R. 30

16020 ~ (Pamas)~		Rest Area ~ Ramp "C"~ (Cont.)~	And the second	, M
(1.5.R. 30 ~ (Ramps) ~ Rest Area ~ Ramp "B"~ (Cont.)~		Rest Area ~ Ramp "C" ~ (Cont.) ~ Sta 448 + 38.54 to Sta 449 + 49.49 ~ (Transition);	~	
24- 152+ 75 16 to 6to 161+3000~		Length	=11000 Lin 1	Ff.
5ta. 453 + 75.46 to 5ta. 464 + 30.00 ~		Pavement Transition~	A CONTRACTOR OF THE CONTRACTOR	
Pavement ~ (10) (112) (156 61) (2021 72) - 1/2 (101)(16)		848, Type 1: (16) (0.389661)	= 6.23 CU.)	16
Area: (1/9)((1/2)(456.64)(3831.72) - 1/2 (1.91)(16)		848, Type 2 (16) (0.077/61) =	= 1.23 CU.)	
- (6.796/360) 17 (3.819.72) 2 + (17)(100)	211 601/1	407 Tack Coat (16) (1.222222) =	= 19.56 621.	
	7.14 Sq.Yd		= 0.68 Ton	
	64 CU.Yd.		-0.00 7077	
	96 CU.Yd.	Shoulder Transition~	231 (1)	V
407 Tack Coat · (1,919.14) (0.10) = 191.	91 63/5.	848, Type 1: (6) (0.389661)	= 234 CU	
407 Cover Aggregate: (1,919.14) (7/2000) = 6.7	72 Tons	848, Type 2 (6) (0.077/61)	= 046 CU.	,
Shoulders	•	407 Tack Coat: (6)(1.222222)	= 7.33 Gal	. 1 . 4
Area ((251.46 + 151.46)(3) + (1/2)(3+8)(100)		407 Cover Aggregate (6) (0.042778)	= 0.26 701.	7
+ (452.60 + 250.01)(8) + (1/2) (100.72)(8)		Shoulder Reconditioning~		
+ (1/2)(14+10)(100)](1/9) = 990	8.06 Sq.Yd.	Length = 220.00 Lin. Ft.		•
848, Type 1 (1.25)(1/36) (998.06 + 36.65) = 35.	93 Cu. Yd.	6/7 Shoulder Preparation: (220)(2)(1/9)	= <i>48.89 59</i> .	YO
848, Type 2: (1.50) (1/36) (998.06 + 36.65) = 43	11 Cu.Yd.	617 Compacted Aggregate (220)(2)(1/9)(3.75)		
$\frac{100}{100} = \frac{100}{100} \left(\frac{100}{100} \right) \left(\frac{100}{100} \right) = \frac{100}{100} = \frac{100}$	1.8/ Gals.	(1/36)(1/2)	= 255 Cu.	Xd.
	.07 0015. 19 Tons		AND THE STATE OF T	
	10/15	Rest Area ~ Ramp "C"~ Summary~	and the second s	
Shoulder Reconditioning~		Pavement~	ja,	
Length of 4' Reconditioning : 100.72 + 250.01	2021 5		= 72.82 CU.)	
	33 Lin.Ft.		= 81.14 Cu.,	
	72 Lin. Ft.	407 Tack Coat: 191.78, + 19.56	= 211.34 621	5.
Length of 2' Reconditioning: (151.46)(2) =302.	92 Lin.Ft.		= 7.39 Ton	
617 Shoulder Preparation (19)(4)(863.33)		407 Cover Aggregate: 6.7/ + 0.68 Shoulders~		1
F(1/2)(47C)(100.1C)		848, Type 1: 35.81 + 2.34	= 38.15 Cu.	Yd.
f(2)(302.92)/=484	1.59 Sq.Yd		= 43.43 Cu.	
6/7 Compacted Aggregate (484.59) (3.75) (1/36) = 50.			= 107.05 62	
(1/36) = 50.	48 Cu.Yd.	107 Cover Apprenate 310+026	= 3.75 Tor	
Rest Area ~ Ramp "B"~ Summary~		Shoulder Reconditioning~	622726	V2
Pavement~		6/7 Shoulder Preparation: 483.74 + 48.89	= 936.03 39.	10.
848, Type 1: 6.23 + 66.64 = 72.	87 Cu.Yd.	617 Compacted Aggregate: 50.39 + 2.55	= 02.94 (U.	10.
	19 Cu.Yd.	Rest Area ~ Ramp "O"~	and the state of t	
0,0, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	!.47 Gals.	Sta. 454+55.31 to Sta. 455 + 65.28 ~ (Transition	<i>(ת</i> י	
70/ 100/2 000/ 10:00	.47 0013. 10 Tons	/enth	=110.00 Lin.	f
707 0070, 199, 090,	70 10113	Pavement Transition~	770,00 E77.	, , .
Shoulders~	222 6.1//	818 Tuga ((16) (0 380661)	= 6.23 Cu.	W
0,0,1,00, 2.0,	. 27 CU.Yd.			
	7.57 CU.Yd.		- 1.23 CU	` /
407 Tack Coat : 7.33 + 99.8/ =107.	14 6a/5.		= 19.56 Ga	
407 Cover Aggregate: 0.26 + 3.49 = 3.	75 Tons		= 0.68 To,	
Shoulder Reconditioning~		Shoulder Transition~		
617 Shoulder Preparation : 48.89 + 484.59 = 533	3.48 Sq.Yd	Area in Curb Removal : (8/12)(39.34)(1/9)	= 291 59	
617 Compacted Aggregate : 2.55 + 50.48 = 53.	03 CU.Yd.	848, Type 1 · (6) (0.389661) + (1.25)(1/36) (2.91)	= 2.44 CU.	
			= 0.58 Cu.	,
Rest Area ~ Ramp "C"~		407 Tack Coat: (6) (1.222222)	= 7.33 Ga	15.
Sta. 437 + 85.00 to Sta. 448 + 38.54 ~			= 0.26 Tol	7 ·
Pavement~		Shoulder Reconditioning~		
Area (19) [(1/2) (456.64) (3,831.72) - (6.796/360)		Shoulder Reconditioning~ Length: 220-39.34 617 Shoulder Preparation (180.66)(2)(1/9)	= 180.66 Lin	7. F.F.
(11) (3,819.72) 2 - (1/2) (1.91) (16) + (100) (17)		617 Shoulder Preparation (180.66)(2)(1/9)	= 40.15 50	. Yd
+ (16)(151.46) + (12)(249.01) + (1/2)(12)(100) = 1,91	17.81 Sq.Yd.	6/7 Compacted Apprenate: (180.66)(2)(1/9)	and the	
	59 Cu.Yd.	6/7 Compacted Aggregate: (180.66)(2)(1/9) (3.75)(1/36)(1/2)	= 209 (1)	14
848, Type 2: (1.50) (1/36) (1,917.81) = 79.	9/ Cu. Yd.			,,,,,
	. 78 Gals.	9ta. 455 + 65.28 to 9ta. 462 + 11.53		
	71 Tons	Pavement~	# 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	
Shoulders ~	,,	Area (1/9)((16)(146.51),+ (17)(200.37)+(15)(300.06))	=1,139.04 59	1/6
Area · [(1/2)(100.72)(8) + (249.01 + 452.59)(8)		848, Type 1: (1.25) (1/36) (1,139.04)	= 39.55 Cu.	: 16/
		848, Type 2 (1.50) (1/36) (1,139.04)	= 47.46 CU	1.46.
+ (100)(1/2)(8+3) + (151.46 + 251.46)(3)	7.16 Sq.Yd.		= 113.90 63	
	7.70 SG.70. 5.81 CU.Yd.		= 3.00 Tol	
	2.97	Shoulder ~ (Lt.)~ Varies~	= 33.03 59.	2 1/1
	9.72 G3/5.	Area of 3' Shoulder : (3) (99.10) (1/9)		. 70.
	49 Tons	Area of 3' to 2' Transition (1/2)(3+2)(48.31)	_ 10110 C	. V.
Shoulder Reconditioning~		Area of Gore Shoulder & Gurb (1/2)(18.74+15.	= 13.46 39. -20)	10.
Length of 4' Reconditioning 100.72 + 249.01		Area of Gore Shoulder & Gurb (1/2) 18 14+13		
+ 452.59 + 60 = 86a	2.32 Lin.Ft.	(169.80)(119) + (112)	time to the second	1//
	0.12 Lin.Ft.	(1/ + 15.25)(300)(1/9)	= 100.14 59.	i. YO.
Length of 2' Reconditioning: 151.46 + 150.54 = 300		Area of 3' Curb Kemoval : (3)(170.73 + 300.06)		
617 Shoulder Preparation: (1/9)[(4)(862.32)		(119)	= 156.93 59.	? YO!
1/101/1/21/100 121		Area of 8" Curb Removal: (8/12)(176.86)(19)	= 13.10 Sq.	?. Yd.
+(2)(30200)7 = 48	3.74 So. Vd.	010 T 1 (125)(1/20)(22024/2/2/12/6602	7 .	
6/7 Compacted Angrenate: (48374)(376)	7.7.	+ 13.10) + (1/2)(3+1)(1/36)(758.14		
+(1/2)(4+2)(100.12) +(2)(302.00)] = 48.5 617 Compacted Aggregate : (483.74)(3.75) (1/36) = 50	0.39 Cu.Yd.	048, Type T (1.29)(1/36)(33.03+13.42+136.93 + 13.10) + (1/2)(3+1)(1/36)(758.14 -156.93)	= 40.92 CU	! Yd.
	→ • • •	and the control of th		

Rest Area ~ Ramp "D"~ (Cont.)~	
Rest Urea~ Ramo 11~ (CONT)~	
Sta. 455 + 65.28 to Sta. 462+11.53 ~ (Cont.)~	
Shoulder ~ (Lt.)~Varies~ (Cont.)~	
848, Type 2: (1.50) (1/36) (33.03 + 13.42 + 156.93	
+ 13.10)	= 9.02 Cu.Yd.
407 Tack Coat: (33.03 + 13.42 + 758.14-156.93)	
(010) TACK (00) (33,03 17,42 170,14 130,33)	-6177 606
(0.70)	= 64.77 63/5.
407 Cover Aggregate (33.03+13.42+158.14	
407 Cover Aggregate: (33.03+13.42+758.14 -156.93)(7/2000)	= 2.27 Tons
Shoulder ~ (Rt) ~ Varies~	1998
1 (100,00) ((100,00) + (1/2) (248) (00, 70) + (8)	
Area (3)(108.68) + (1/2)(3+8)(99.79)+(8)	10000 6-16/
(137.39 + 300.06)] (1/9)	=486.05 Sq. Yd.
848, Type 1 (1.25) (1/36) (486.05)	= 16.88 Cu. Yd.
848, Type 2 (1.50) (1/36) (486.05)	= 20.25 CU.Yd.
102 1-1 (106) (100)	= 48.6/ 68/5.
407 Tack Coat: (486.05)(0.10)	
407 Cover Aggregate (486.05)(7/2000)	= 1.70 Tons
Shoulder Reconditioning~	
Length of 4' Reconditioning: 300.06+137.39	= 437.45 (in Ff
()	= 99.79 Lin.Ft.
Length of 4' to 2' Transition	
Length of C Reconditioning	= 108.68 Lin.Ff.
- 6// Shoulder Menaration (43/.49)(0.444444	
+(1/2) (4+2) (99.75) (1/9)+(2) (108.68) (1/9) 6/7 Compacted Aggregate: (251.84) (3.75) (1/36)	
(10)+(2)(108 68)	
(1/9) (2) (100.00)	351915 16
(1/9)	= 251.84 Sq. Yd.
6/7 Compacted Aggregate (251.84)(3.75)	1938
(1/36)	= 26.23 Cu.Yd.
Sta. 462+11.53 to Sta. 474+11.53~	
Pavement,~	
Area: (1/2)(25)(1,200)(1/9)	=1,666.67 Sq.Yd.
1 (1) (C) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	= 57.87 CUYO
848, Type 1: (1.25)(1/36)(1,666.67)	
848, Type 2: (1.50) (1/36) (1,666.67)	= 69.44 CU.Yd.
407 Tack Coat (1,666.67) (0.10)	= [66.67 Gals.
407 Cover Aggregate (1,666.67)(7/2000)	= 5.83 Tons
407 COVET AGGIEGATE (1,000.01) (176000)	D. 00 70/10
Shoulder ~ (R7)~(8)~	1000 00 1: [
Length: V(1,200)2+(25)2	=1,200.26 Lin.Ft.
848, Type 1: (1,200.26) (0.030864)	= 37.04 Cu.Yd.
848, Type 2: (1,200.26) (0.037037)	= 44.45 Cu. Yd.
107 7 1 (1200.20) (0.001001)	
407 Tack Coat (1,200.26) (0.088889)	= 106.69 Gals
407 Cover Aggregate (1,200.26) (0.003/1/)	= 3.73 Tons
Shoulder Reconditioning ~ (4)~	78.00
lenoth	= 1,200.26 Lin.Ff.
617 Shoulder Preparation (1,200.26)(0.44444) 617 Compacted Aggregate (1,200.26)	D= 533 15 50 Vd
01/ 9/10010e/ 1/eparalloll (1,000.00)(0,444444)-000.40 Sq. 10.
6/7 Compacted Aggregate (1,200.26)	
(0.046296)	= 55.57 Cu.Yd.
Rest Area ~ Ramp "D" ~ Summary ~	
Keen for the comment	
Pavement~	
Pavement~	= 103.65 CU.Yd
Pavement~ 848, Type : 6.23 + 39.55 + 57.87	= 103.65 CU.Yd. = 118 13 CU.Yd
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44	= 118.13 Cu. Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67	= 118.13 Cu.Yd. = 300.13 Gals.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67	= 118.13 Cu. Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83	= 118.13 Cu.Yd. = 300.13 Gals.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 * 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 3.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 * 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 3.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. = 227.40 Ga/s.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 * 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 3.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5 ~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. = 227.40 Ga/s.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. = 227.40 Ga/s.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5 ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning ~	= 118.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. = 227.40 Ga/s.
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84	= 18. 3 Cu.Yd. = 300. 3 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 3.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.6 + 06.69 407 Cover Aggregate: 0.26 + 2.27 + .70+37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 25!.84 +533.45	= 18. 3 Cu.Yd. = 300. 3 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 3.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.6 + 06.69 407 Cover Aggregate: 0.26 + 2.27 + .70+37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 25!.84 +533.45	= 1/8.13 Cu.Yd. = 300.13 Gals. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 1= 227.40 Gals. 3= 7.96 Tons = 825.44 Sq.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 6houlders ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.75 617 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23	= 1/8.13 Cu.Yd. = 300.13 Gals. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 1 = 227.40 Gals. 3 = 7.96 Tons = 825.44 Sq.Yd.
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +555.57	= 18. 3 Cu.Yd. = 300. 3 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +555.57	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 1 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq.Yd.
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +555.57	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 1 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq.Yd.
Pavement~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 9.56 + 13.90 + 66.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders~ 848, Type : 2.44 + 40.92 + 6.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.75 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +555.57 U.S.R. 224 Interchange ~ Ramp "2"~ Pavement~	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 1 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement ~ Sta 561 + 36.32 to Sta 573 + 36.32 ~	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd.
Pavement ~ 848, Type 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5 ~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.3 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement ~ Sta 561 + 36.32 to 5ta 573 + 36.32 ~	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5 ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.3 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement ~ Sta 561 + 36.32 to 5ta 573 + 36.32 ~	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 ~ 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 +533.45 617 Compacted Aggregate: 2.09 + 26.23 +555.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement ~ 5ta 561 + 36.32 to 5ta 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) 5ta 573 + 36.32 (Mainline) = 5ta 664 + 16.40 (Basel)	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd.
Pavement ~ 848, Type : 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 1/3.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5 ~ 848, Type : 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning ~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement ~ 5ta. 561 + 36.32 fo Sta. 573 + 36.32 ~ Area: (IIE)(25)(1,200)(III) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Basel, 5ta. 664 + 16.40 to Sta. 661 + 16.40 ~	= 1/8. 13 Cu. Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu. Yd. = 74.30 Cu. Yd. 9 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq. Yd. = 83.89 Cu. Yd. = 1,666.67 Sq. Yd. (ine) ~ Ramp "A"
Pavement~ 848, Type 1: 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 55.57 U.S.R. 224 Interchange ~ Ramp "1"~ Pavement~ 5ta 561 + 36.32 to 5ta 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) Sta 573 + 36.32 (Mainline) = 5ta 664 + 16.40 (Basel, 5ta 664 + 16.40 to 5ta 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9)	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd.
Pavement~ 848, Type 1: 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement~ Sta. 561 + 36.32 to Sta. 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Basel, 5ta. 664 + 16.40 to Sta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9) Sta. 661 + 16.40 to Sta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9)	= 1/8. 13 Cu. Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu. Yd. = 74.30 Cu. Yd. 9 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq. Yd. = 83.89 Cu. Yd. = 1,666.67 Sq. Yd. (ine) ~ Ramp "A"
Pavement~ 848, Type 1: 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement~ Sta. 561 + 36.32 to 5ta. 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Basel, 5ta. 664 + 16.40 to 5ta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9) Sta. 661 + 16.40 to 5ta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9)	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd. = 1,666.67 Sq.Yd. (ine) ~ Ramp "1" = 500.00 Sq.Yd.
Pavement~ 848, Type 1: 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulder 5~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.63 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 3.73 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 55.57 U.S.R. 224 Interchange ~ Ramp "1" ~ Pavement~ Sta. 561 + 36.32 to 5ta. 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Basel, 5ta. 664 + 16.40 to 5ta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9) Sta. 661 + 16.40 to 5ta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9)	= 1/8.13 Cu.Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu.Yd. = 74.30 Cu.Yd. 0= 227.40 Ga/s. 3= 7.96 Tons = 825.44 Sq.Yd. = 83.89 Cu.Yd. = 1,666.67 Sq.Yd. (ine) ~ Ramp "1" = 500.00 Sq.Yd.
Pavement~ 848, Type 1: 6.23 + 39.55 + 57.87 848, Type 2: 1.23 + 47.46 + 69.44 407 Tack Coat: 19.56 + 113.90 + 166.67 407 Cover Aggregate: 0.68 + 3.99 + 5.83 Shoulders~ 848, Type 1: 2.44 + 40.92 + 16.88 + 37.04 848, Type 2: 0.58 + 9.02 + 20.25 + 44.45 407 Tack Coat: 7.33 + 64.77 + 48.61 + 106.69 407 Cover Aggregate: 0.26 + 2.27 + 1.70 + 37.5 Shoulder Reconditioning~ 617 Shoulder Preparation: 40.15 + 251.84 + 533.45 617 Compacted Aggregate: 2.09 + 26.23 + 555.57 U.S.R. 224 Interchange ~ Ramp "1"~ Pavement~ Sta. 561 + 36.32 to Sta. 573 + 36.32 ~ Area: (1/2)(25)(1,200)(1/9) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Basel. 5ta. 664 + 16.40 to Sta. 661 + 16.40 ~ Area: (1/2)(14+16)(300)(1/9)	= 1/8. 13 Cu. Yd. = 300.13 Ga/s. = 10.50 Tons = 97.28 Cu. Yd. = 74.30 Cu. Yd. 9 = 227.40 Ga/s. 3 = 7.96 Tons = 825.44 Sq. Yd. = 83.89 Cu. Yd. = 1,666.67 Sq. Yd. (ine) ~ Ramp "A"

		Computations By Initials////////////////////////////////////	FHWA REGION	STATE	PROJEC	T		(16)
		Computations Thecked By	5	OHIO				65
		Initials Date 12-20-83 Final Revisions By	VAN WE		OUNTY			
	U.S.R.	Initials Date P224 Interchange ~		_	•			,
,	Pave	ement ~ (Cont.) ~ 659 ±80.00 to 5ta. 63	•		· · · · · · · · · · · · · · · · · · ·	,		
	Are	ea: F(63.60) + (0.01745	53) (63 <u>.6</u> 0	0/200)) ² (8)(23)	7 855	- 67 6	\ <u>\</u>
	Sta	+ (404,40) (257.11/2 655+12.00 to Sta. 6	CE 1 1 66	56~			.67 Sq.	
	Are	055 + 12.00 +0 5+4.0 03 (45.44)(25 7.86 249. 0.654 + 66.56 & = 5+3. 0.654 + 66.56 +0 5+3.	? [[] ([[2] ([654 + 6	(7+18)(1 6.56 B	(/9) = * ~ Ramo	= 9/.2 "A"	16 Sq.	YO. 1
	Sta	654 + 66.56 to 5ta.	642 + 84	1.55 ~	28)		•	
	APE	ea : 7(1,066.63)(467.46) -(0.017453)(115.38)	477.40) [/200] ² ((10)(11)]	70) } (17)(1/9) =	-2,183	9. 88 59.	Yd.
	Pare	ement Sub-Summar 561 + 36.32 (Mainline)	y~ to 5t	a 642	+ 81.55 (Pamo)	
e e	Are	ea: 1,666.67 + 500 + 26	50.64+	855.67	+ 91.46	* .	,	. V
	84	+ 2,189.28 18, Type 1 : (1.25)(1/36)(5,563.72	2)			53.72 Sq. 3.18 Cv.	
	840 40	8, Type 2 (1.50)(1/36)(17 Tack Coat (5,563.7	(5,563,72 2)(0,10)	2)			', 82 CV. 5, 37 Ga	
	40	17 Cover Aggregate	(5,563.	72)(7/2	<i>2000</i>) =	= <i>19.</i>	47 Tol.	*
	Pari	642+84.55 to Sta.		3.87 ~ ₍	(70' Tape	?r)~		¥
	84	18, Type · (17)(0.33950 18, Type 2 (17)(0.0383	16) 580)				77 Cu. 66 Cu.	
	40	17	77778)			= 13.	22 Ga	15.
·		7 Cover Aggregate 642+13.87 to 5ta			(6)	= <i>U.</i> 2	46 To,	
	Str	voture No. VAN-30 Work		,,				
	Sta.	639+47.87 to Sta.	638+77	7.75 ~	(70' Tap	per)-	ر الم	
		18, Type · (17)(0.33950 18, Type 2 · (17)(0.03858	<i>26</i>)		•	=5.7	77 CU	Yd,
	84 40	8, Type 2 : (17) (0.03858 17 Tack Coa+ : (17) (0.7	80) 777778))			96 CU. 22 Gö	,
,	40	07 Cover Aggregate	(17)(0.02	27222)		- 0.	46 70	
. *	Par	? 224 Interchange ~ . ement ~			7.)~			
	Sto Dr	a. 638+77.75 to 5ta ea: (538.57) (5,719.58	633+3 8/5.7293	9.18 ~ 58) (17)	(1/9)	=1.01	15.52 Sq	?.Yd
	91	9.633±39.18 to 5ta	632+39	7.18~				
*		ea ((70.30) (5,719.23/ (3,808.87/3,819.72)] ([[2] ([7+/9)(/	19)	= 199	9.58 Sq	. Yd.
	Ar	a 632+39.18 to 57. ea (314.55) (3,802.77	13819.7	72) (26)	(1/9)	= 90	4.67 54	2/6/
	5to	(a. 629+24.63 to 548 ea: (626.53) (26) ([/9]	9. 66675	94.50~		- 1,80	19.98 Sg	1.40.
•	5+	a. 622+94.50 to 5+2 a. ((366.45) (1/2)(26+2	7. 619+ 3 12)-(1/1	38.00 -) 71 (150	<u> </u>		3.42 Sq	
		rement Sub-Symmar		1.00	9 J. (199)			- - ,
	5/0	9. 638 + 77. 75 +0 5+3. 93. 1,015.52 + 199.58 1	619+30		9. <i>98</i>			·, v
		+773.42				•	03.17.59	
	84 84	18, Type : (1.25)(1/36)(4 18, Type 2 (1.50)(1/36)(4	4, 105.11) 4,703.17)	,)		= 195	3.30 CV. 5.97 CV.	1.46
· · ·	40	07 Tack Coat:(4,703	3. <i>17) (0.1</i> 0	<i>(0)</i>	(2000)		0.32 Ge 46 Tot	
	5 ta	07 Cover Aggregate. 619+38,00 to 5ta.61	18+00.5	1) (1) C	.500) 37.50' 7.			
•	Par	rement~ 18, Type (12)(0.4870		• • • • • • • • • • • • • • • • • • •		* .	84 CU	.Yd.
	8	18. Type 2 (12)(0.096	45/)	e)		= /	16 CU 3.33 G	180.
	4	07 Tack Coat: (12)(1. 107 Cover Aggregate	·· (/ <i>E</i>)(0.0	0534/6			7.55 02 7.64 CV	
	Rall 82	np "A" ~ Pavemen+ 5 18, Type : 193.18 + 5.	77 + 5.7	1- 17+ 163	30+5.84	'=37.	3.86 CO	v. Y.d.
•	84	18, Type 193.18 + 5. 18, Type 2 : 231.82 + 0.6 107 Tack Coat : 556.37	66 + 0.66 7 + 13.22	5+ 195.5 7+ 13.20	97 + 1.16 2 + 470.3c	?		•
		+/8.33 107 Cover Aggregate	>			=1,0	71.46 6	7/5.
	4	O, COVEI HYGIEGOTE	+ 16.46	10.40	1	= 37	7.49 70.	175
· •					***			
				3 • • • · ·				

PAVEMENT COMPUTATIONS U.S.R. 30

= 1.02 CU.Yd.

= 012 Cu.Yd.

= 2.33 Gals.

= 178.90 Sq.Yd

= 33.19 Sq.Yd.

= 556.92 Sq.Yd

- 325.73 Sq.Yd.

=1,094.74 59.70 = 38.01 Cu.Yd.

= 45.61 Cu. Yd.

= 109.47 Gals.

= 3.90 Cu. Yd.

= 0.77 CU.Yd.

= 12.22 Gals.

= 0.43 Ton

= 388.23 Gals.

= 13.59 Tons

= 1,200.00 Lin.Ft.

= 300.00 Lin. Ft.

= 148.53 Lin.Ft

= 779.25 Lin. Ft.

=1,130.31 Lin. Ft

U.S.R. 30 ~ (Ramps)~ U.S.R. 224 Interchange ~ Ramp "A"~(Cont)~ Sta 639+47.87 to Sta 638+77.75~ (10' Taper) U.S.R 224 Interchange ~ Ramp "A"~(Cont.)~ Length of Taper @ Shoulder: (7012) Ramp "A"~ Shoulders~ 848, Type / (3) (0.339506) (69.88/70) 848, Type 2 · (3) (0.038580) (69.88/70) Sta 561+36.32 (Mainline) to Sta 573+36.32 (Ramp) Area · (1,200)(8)(1/9) = 1,066 = 1,066.67 Sq.Yd. 407 Tack Coat: (3) (0.777778) (69.88/70) Sta. 573 + 36.32 (Mainline) = Sta. 664 + 16.40 (Ramp) 407 Cover Aggregate: (3)(0.027222)(69.88/70)= 0.08 Ton 5ta 638 + 77.75 to 5ta 633 + 39.18 Sta 664+16.40 to Sta 661+16.40 Area in Curb Removal: (300)(3)(1/9) Area of 1" to 3" Variable Thickness (300)(1/2) = 100.00 Sq.Yd. Area (538.57) (5,709.58/5,729.58) (3)(1/9) +12.25)(1/9)-- 337.50 Sq.Yd. 9ta. 633+39.18 to 9ta. 632+39.18 = 266.67 Sq.Yd. Area: ((70.30)(5,708.88/5,729.58)+(29.70) Area of 8' Shoulder: (300)(8)(1/9) Sta. 661+16.40 to Sta. 659+80.00 (3,798.02 | 3,819.72)](3)(1/9) Sta. 632 + 39.18 to Sta. 629 + 24.63 Area of Shoulder · [(136.40) - (0.017453)(136.40/200)² (1/2)(4+1.73)(23)[(1/2)(8+3.45) No Shoulders on Ramp "A" = 86.43 Sq. Yd. 5ta 629 + 24.63 to 5ta 622 + 94.50 32.43 Sq.Yd. Area of 3' Curb Removal : (97.28)(3)(1/9) Area (8)(626.53)(1/9) Area of I" to 3" Variable Thickness (97.28)(1/2) Sta. 622+94.50 to Sta. 619+38.00 Ar.ea · (8) (366.45) (1/9) = 155.38 59.76. Shoulder Sub-Summary~ Area of 8" Curb Removal . ((39.80) + (0.017453) Sta. 638 + 77.75 to Sta. 619+38.00 Area: 178.90 + 33.19 + 556.92 + 325.73 848, Type 1: (1.25)(1/36)(1,094.74) = 2.97 Sq. Yd. 848, Type 2: (1.50) (1/36) (1,094.74) 407 Tack Coat: (1,094.74) (0.10) 9ta 659 +80.00 to 9ta 655 + 12.00 Area of Shoulders ((13.60)-(0.017453) (13.60/200) 407 Cover Aggregate (1,094.74) (7/2000) = 3.83 Tons Sta. 619+38.00 to Sta. 618+00.50~(137.50' Taper)~ 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat (8) (1.527778) 407 Cover Aggregate: (8)(0.053472) Ramp "A"~ Shoulder Summary~ 848, Type 1: 106.22 +1.01 + 1.02 + 38.01 + 3.90 = 150.16 CUYd. 312.58 59.76. Area of 8" Curb Removal El (63.60)+(0.017453) 848, Type 2: 94.60 + 0.11 + 0.12 + 45.61 + 0.77 = 141.21 Cu.Yd. 407 Tack Coat : 261.90 + 2.31 + 2.33 + 109.47 407 Cover Aggregate: 9.17 + 0.08 + 0.08 + 3.83 Sta. 655 + 12.00 to Sta. 654 + 66.56 Area (45.44) (247.61/249.11) (3) (1/9) = 15.06 Sq.Yd. Shoulder Reconditioning~ Sta. 654 + 66.56 & = Sta. 654 + 66.56 B. -Ramp "A" Sta. 56/+ 36.32 to Sta. 573+36.32 Sta 654 + 66.56 to Sta 642 + 84.55 Length of 4' Reconditioning Area (1,066.63) (457.46 / 477.46) + 115.38 - (0.017453) 5ta.573 + 36.32 (Mainline) = 5ta.664 + 16.40 (Ramp)~ (115.38/200)2 (20)(11)] (3)(1/9) =378.68 Sq.Yd. Sta 664 + 16.40 to Sta 661 + 16.40 Length of 4' Reconditioning Shoulder ~ Sub-Symmary~ SFa. 661+16.40 to Sta. 659+66.40 Sta. 561 + 36.32 (Mainline) to Sta. 642 + 84.55 (Ramp) Length of 4' to 2' Transition: 150-(0.017453) Area of full depth Shoulder : 1,066.67 + 266.67 +86.43 + 312.58 +15.06 + 378.68 - 2,126.09 Sq.Yd. 5ta 659+66.40 to 5ta 655+12.00 Area of 1"to 3" Variable Thickness 337.50 Length of 2' Reconditioning 50 - (0.017453) + 155.38 = 492.88 Sq.Yd. Area of Curb Removal: 100+00 +32.43+ 2.97 = 144.36 59.76. 848, Type 1 · (1.25)(1/36)(2,126.09 + 144.36) + (1/2) (1+3)(1/36)(492.88) 848, Type 2 · (1.50)(1/36)(2,126.09 + 144.36) = = 106.22 Cu.Yd. Sta. 655+12.00 to Sta. 654+66.56 = 94.60 Cu.Yd. Length of 2' Reconditioning: (45.44)(45.11/249.11)= 44.71 Lin.Ft. 407 Tack Coat (2,126.09 + 492.88) (0.10) = 261.90 Gals. Sta. 654+66.56 & = Sta. 654+66.56 B ~ Ramp "A" Sta. 654+66.56 to Sta. 642+84.55 407 Cover Aggregate (2,126.09 + 492.88) = 9.17 Tons Length of 2' Reconditioning: (1,066.63) (454.96|477.46)+ 115.38 -(0.017453)(115.38/200) Sta. 642+84,55 to Sta. 642+13.87~ (70' Taper)~ Length of Taper @ Shoulder : 70.68-(0.017453) Sta. 642 + 84.55 to Sta. 642 + 13.87 ~ (70' Taper)~ = 69.32 Lin.Ft. Length of 2' Reconditioning in Transition 848, Type 1 · (3) (0.339506) (69.32 [70) = 1.01 Cu.Yd. 848, Type 2 (3)(0.038580) (69.32/70) 70.68 - (0.017453) (70.68/200) (22.50) (11) = 69.15 Lin.Ft. = 0.11 Cu.Yd. Sta 642+ 13.87 to 5ta 639+ 47.87 407 Tack Coat: (3) (0.777778) (69.32/70) = 2.31 Gals. Structure No. VAN-30-1068 407 Cover Aggregate (3) (0.027222) = 0.08 Ton No Work 5ta. 639 + 47.87 to 5ta. 638 + 77.75 ~ (10' Taper)~ Sta. 642 + 13.87 to Sta. 639 + 47.87 Length of E' Reconditioning in Transition. Structure No. VAN-30-1068 $(70.12)(5,707.08/5,729.58) = 69.84 \ Lin. Ft.$

No Work

U.S.R. 224 Interchange ~ Ramp "A"~ (Cont.)~ Sta 638+ 77.75 to Sta 633+39.18 Length of 2' Reconditioning (538.57) (5,707.08/5,729.58)=536.46 Lin.Ft. Sta. 633+39.18 to Sta. 632+39.18 No Shoulder on Ramp "A" Sta 632 + 39.18 to Sta 622 + 94.50 =626.53 Lin.Ff. Length of 4' Reconditioning Sta. 622+94.50 to Sta. 619+38.00 = 366.45 Lin.Ft. Length of 4' Reconditioning Sta 619 + 38.00 to 5ta 618 + 00.50 ~ (137.50' Taper)~ Length of 4' Reconditioning in Transition = 137.50 Lin.Ft. Shoulder Reconditioning Summary~ Length of 4' Reconditioning : 1,200 + 300 + 626.53 =2,492.98 Lin. Ft. Length of 4' Reconditioning in Transition = 137.50 Lin. Ft. Length of 2' Reconditioning: 779.25 + 44.71 +1,130.31+536.46=2,490.73 Lin.Ft. Length of 2' Reconditioning in Transition: 69.15 + 69.84= 138.99 Lin.Ff. Length of 4' to 2' Transition = 6/7 Shoulder Preparation: (2,492.98 + 137.50) = 148.53 Lin.Ft. (2,490.73+138.99) =1,802.99 Sq. Yd. 617 Compacted Aggregate: (0.023/48)(1/2) = 183.02 CU.Yd. 202 Wearing Course Removed Summary: (17+3+3)(70)(1/9) = 178.89 59.76 U.S.R. 224 Interchange ~ Ramp "B"~ Pavement~ Sta. 632 + 70.15 to Sta. 638 + 77.99 = 1,150.15.59.46. Area (607.84) (5,739.58/5,729.58) (17) (1/9) Pavement Sub-Summary~ Sta. 632 + 70.15 (Ramp) to Sta. 638 + 77.99 (Ramp) 848, Type / (1.25) (1/36) (1,150.15) 848, Type 2 (1.50) (1/36) (1,150.15) = 39.94 Cu.Yd. = 47.92 CU.Yd. 407 Tack Coaf (1,150.15) (0.10) "= 115.02 Gals. 407 Cover Aggregate (1,150.15) (7/2000) = 4.03 Tons Sta 638+ 77.99 to Sta 639+ 47.87 ~ (70' Taper)~ Pavement~ = 5.77 Cu.Yd. 848, Type 1: (17) (0.339506) = 0.66 Cu.Yd. 848, Type 2 (17) (0.038580) 407 Tack Coat (17) (0.777778) = 13.22 Gals. 407 Cover Aggregate: (17)(0.027222) = 0.46 Ton Sta. 639 +47.87 to Sta. 642 + 13.87 Structure No. VAN-30-1068 No Work Sta. 642+ 13.87 to Sta. 642+83.20~(70' Taper)~ Pavement~ = 5.77 Cu.Yd. 848, Type 1: (17)(0.339506) = 0.66 Cu.Yd. 848, Type 2 (17) (0.038580) "= 13.22 Gals. 407 Tack Coat (17) (0.777778) 407 Cover Aggregate (17) (0.027222) = 0.46 Ton Sta. 642 + 83.20 to 5ta. 654 + 16.99 = 2,183.07 Sq. Yd. Sta 654+16.99 to Sta 655+19.00 = 195.57 Sq. Yd. Area ((50.01)(17) + (52.00)(1/2)(17+18)((1/9) Sta. 655+19.00 to Sta. 662+44.96 Area & 197.99 + (377.97) (771.94/763.94) +[150+(0.017453)(150/250)2(8)(7.50)} =1,298.30 59.76.

Computations By Initials (), (11), Date 12/20/83 65 OHIO Computations Checked By Initials & Date 12-20-83 VAN WERT COUNTY VAN-30-4.05 U.S.R. 224 Interchange ~ Pamp "B" ~ (Cont.) ~ Pavement~ Sta 662 + 44.96 to Sta 663 + 44.96 Area : [100 + (0.017453)(100/250)2(1/2)(8+9) (7.50)] (1/2) (1= 189.23 Sq. Vd. =1,060.90 Sq. \d Area (12) (247.41) (1/9) 5ta. 593 + 91.11 to 5ta. 594 + 91.11 - 329.88 Sq. Yd. = 66.67 Sq. Vd. Area (1/2)(12)(100)(1/9) Pavement Sub-Summary~ Sta. 642+83.20 (Ramp) to Sta. 594+91.11 (Mainline)~ Area · C/83.07 + 195.57 + 1298.30 + 189.23 +1,060.92 + 329.88 + 66.67 =5,323.64 Sq.\d. 848, Type 1: (1.25)(1/36)(5,323.64) = 184.85 Cu. Yol 848, Type 2: (1.50) (1/36) (5,323.64) 407 Tack Coat: (5,323.64) (0.10) = 221.82 Cu.Yd. = 532.36 Gals. 407 Cover Aggregate (5,323.64)(7/2000) = 18.63 Tons Ramp "B" ~ Pavement Summary ~ 848, Type 1: 39.94 + 5.77 + 5.77 + 184.85 - 236.33 Cu. Yd. 848, Type 2: 47.92 + 0.66 + 0.66 + 221.82 =271.06 Cu.Yd. 407 tack Coat 115.02+13.22+13.22+532.36 = 673.82 Gals. 407 Cover Aggregate: 4.03+0.46+0.46 = 23.58 Tons Shoulders~ Sta. 632 + 70.15 to Sta. 638 + 77.99 Area (607.84)(5,749.58/5,729.58)(3)(1/9) Shoulder Sub-Summary~ -203.32 Sq. Yd. Sta 632+70.15 to 5ta 638+77.99 848, Type 1: (1.25)(1/36)(203.32) = 7.06 Cu. Yd. 848, Type 2 · (1.50) (1/36) (203.32) 407 Tack Coat · (203.32) (0.10) = 8.47 Cu. Yd. $= 20.33 \, \text{Ga/s}.$ 407 Cover Aggregate (203.32)(7/2000) Shoulders~ = 0.71 Ton Sta 638+ 77.99 to Sta 639+ 47.87 ~ (70' Taper)~ Length of Taper @ Shoulder (70) (5,749.58/5,729.58)= 70.24 Lin.Ff. 848, Typel (3)(0.339506) (70.24/70) = 1.02 Cu. Yd. 848, Type 2: (3) (0.038580) (70.24/70) = 0.12 Gu. Yd. 407 Tack Coat. (3) (0.7777778) (70.24/70) = 2.34 Gals. 407 Cover Aggregate. (3) (0.027222) (70.24/70) = 0.08 Ton = 2.34 Ga/s. Sta 639+47.87 to Sta 642+13.87 Structure No. VAN-30-1068 No Work Sta. 642+ 13.87 to Sta. 642+83.20 ~ (70' Taper)~ Length of Taper @ Shoulder: 69.33+ (0.017453) = 70.66 Lin.tt. 848, Type / (3) (0.339506) (70.66/70) = 1.03 GU.Yd. 848, Type 2: (3) (0.038,580) (70.66/70) = 0.12 Gu.Yd. = 2.36 Gals. 407 Tack Coat: (3) (0.777778) (70.66/70) 407 Cover Aggregate (3) (0.027222) = 0.08 Ton Sta. 642 + 83.20 to Sta. 654+ 16.99 Area [116.73 + (0.017453)(116.73/200)² (20)(11)] + (1,017.06)(497.46/477.46) \in (3)(1/9) = 392.57 Sq.Yd. Sta. 654 + 16.99 & U.S.R. 224 = Sta. 654 + 16.99 & Ramp B"~ = 392.57 Sq.Yd. Sta. 654+ 16.99 to Sta. 655+ 19.00 Area (102.01)(3)(1/9) Sta 655 + 19.00 to Sta 662 + 44.96 = 34.00 Sq.Yd. Area: \(\frac{5}{197.99}\)(3) + (377.97) (762.44/763.94) (3) + [150 - (0.017453) (150/250)² (1.50) (7.50)] (3) + (147.99)(3) + (377.97) (781.44 | 763.94) (3) + [150 + (0.017453) (150/250)² (17.50) (7.50)] (3) + (50) (1/2)(2+3)§ =484.09 Sq. Yd. Sta 662+ 44.96 to Sta 663+44.96 Area : [100 - (0.017453)(100/250)2 (1/2)(1.50+4.0) (7.50)7 (1/2)(3+8)(1/9) + (100)(1/2)(10+14)(1/9) +[100 +(0.017453)(100/250)2 (1/2)(17.50+19.50)(7.50) =227.87 Sq.Yd.

FHWA REGION

STATE

PROJECT

PAVENENT COMPUTATIONS U.S.R.30

	•	•
U.S.R. 30 ~ (Ramps) ~		
U.S.R. 224 Interchange ~ Ramp	"B"~ (Cont)~	
0.5.K. CE4 ////e/ 6/10/19e 20/10/	106~ (Cont)~	
Sta. 662+44.96 to Sta. 663+44.	90 (00/11.)	acan a VI
Area of Gore Pavement	•	- 35.00 Sq.Yd.
5ta 663 + 44.96 to 5ta 667 + 90	<i>8.03</i>	
Area: (453.07)(3,8/5.72/3,8/9.72 5/a: 667 + 98.03 (B. Ramp "B") =	?) <i>(8)(1/9</i>)	= 402.31 So.Yd
640 667+ 08 02 (\$ Pama "R")=	642 FQ1+13701	Mainline)~
5/d. 00/ 1 90.05 (W. Kallip D)	010. 991 149.10 (1	
5ta 591 + 45.10 to 5ta 595+ 5	//. //	
Area: (247.41)(8)(1/9)		<i>= 219.92 5q. Yd.</i>
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
Area : (8) (100) (1/9)		= 88.89 Sq.Yd.
		00.00 09.70.
Shoulder Sub-Summary~		
Sta. 642 + 83.20 (Ramp) to Sta	7. 594 + 91.11 (M7)	nne)~
Area: 392.57 + 34.00 + 484.09	+ 227.87 + 402.5	3/
+ 219.92 + 88.89		=1,849.65 Sq.Xd.
		- 35.00 Sq. Yd.
Area of Gore Pavement		
848, Typel: (1.25) (1/36) (1,849.65	+30.00)	- 65.44 Cu. Yd.
848, Type 2: (1.50) (1/36) (1,849.6	65 + 35.00)	= 78.53 Cu Yd
407 Tack Coat: (1,849.65)(0.1	<i>(0)</i>	<i>= 184.97 Ga/5</i> .
407 Cover Aggregate: (1,849.6	5)(7/2000)	= 6.47 Tons
401 COVET AGGIEGATE. (1,049.0	0) (1/2000)	0.47 70770
Ramp "B"-Shoulder Summary		
848, Type 1: 7.06 + 1.02 + 1.03	+ 65.44	= 74.55 CU.Yd.
818 Tune 2: 817+012+012	+ 78 53	= 87.24 Cu. Yd.
848, Type 2: 8.47+0.12+0.12	4 9 26 4 191 117	
407 Tack Coat 20.33 + 2.34		= 210.00 Ga/s.
407 Cover Aggregate: 0.71	+ 0.08 + 0.08	
+64	7	= 7.34 Tons
Shoulder Reconditioning~		
SHOULDER RECONDITIONING	77.00	
Sta. 632+ 70.15 to Sta. 638+		
Length of 2' Reconditioning:	(607.84)	.
	⁷ 5, 752.08/5, 729.58))=6/0.23 Lin.Ft.
Sta 638+ 77.99 to Sta 639+4	• • • • • • • • • • • • • • • • • • • •	1
1 th of 2 Connditioning in	Transition:	
Length of 2' Reconditioning in	7 11 01/5/1/0/1	20 15 1: 51
(69.88) (3,7	752.08/5,729.58)	=/0.15 CID. FT.
Sta. 639 + 47.87 to Sta. 642 +	13.87	
Structure No. VAN -30-1068	•	•
No Work 64-612+1387 + 64-612+8	2 20 ~ (70' Tan	صداح
Sta 642+13.87 to Sta.642+83		
Sta 642+13.87 to Sta.642+83	in Transition	•
Sta 642+13.87 to Sta.642+83	in Transition	•
5ta 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200) in Transition (22.50) (II)	•
5ta 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200 5ta 642+83.20 to 5ta 654+1	r in Transition (22.50)(II) 16.9 <u>9</u>	= 70.83 Lin.Ft.
Sta 642+13.87 to Sta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200 Sta 642+83.20 to Sta 654+1 Length of 2' Reconditioning	r in Transition (22.50) (II) 16.99 : [116.73+(0.01749	= 70.83 Lin.Ft.
5ta 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200. 5ta.642+83.20 to 5ta.654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)]+	r in Transition (22.50) (II) 16.99 : [116.73+(0.01749	= 70.83 Lin.Ft.
5ta. 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200, Sta. 642+83.20 to 5ta. 654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)] to (499.96/477.46)	r in Transition 0) (22.50) (II) 16.99 0 : [II6.73+(0.01745 5 (1,017.06)	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft.
5ta 642+13.87 to 5ta 642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200 Sta 642+83.20 to 5ta 654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)] to (499.96/477.46)	r in Transition 0) (22.50) (II) 16.99 0 : [II6.73+(0.01745 5 (1,017.06)	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft.
5ta 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200, 5ta.642+83.20 to 5ta.654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)]+ (499.96/477.46) 5ta.654+16.99(12.05.2.224)=3	r in Transition 0) (22.50) (II) 16.99 0 : [II6.73+(0.01745 5(1,017.06) 5ta.654+16.99 (b	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft.
5ta 642+13.87 to 5ta 642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200 Sta 642+83.20 to 5ta 654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)] to (499.96/477.46)	r in Transition 0) (22.50) (II) 16.99 0 : [II6.73+(0.01745 5(1,017.06) 5ta.654+16.99 (b	= 70.83 Lin.Ft. (3) =1,184.24 Lin.Ft. (4) Ramp "B")~
5ta 642+13.87 to 5ta.642+83 Length of 2' Reconditioning 69.33+(0.017453)(69.33/200, 5ta.642+83.20 to 5ta.654+1 Length of 2' Reconditioning (116.73/200)(22.50)(11)]+ (499.96/477.46) 5ta.654+16.99(12.05.2.224)=3	r in Transition 0) (22.50) (II) 16.99 5: [II6.73+(0.01745 5:(1,017.06) 5ta.654+16.99 (b.	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft.
5ta 642+13.87 to 5ta.642+83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200. Sta. 642+83.20 to Sta. 654+1 Length of 2' Reconditioning (116.73/200) (22.50) (11) [+ (499.96/477.46) Sta. 654+16.99 (L. U.S.R. 224) = 5 Sta. 654+16.99 to Sta. 655+ Length of 2' Reconditioning	r in Transition 0) (22.50) (II) 16.99 16: [116.73+(0.01745 15: [1,017.06) 17: 654+16.99 (B 19:00	= 70.83 Lin.Ft. (3) =1,184.24 Lin.Ft. (4) Ramp "B")~
5ta. 642+13.87 to 5ta. 642+83. Length of 2' Reconditioning 69.33+ (0.017453) (69.33/200. Sta. 642+83.20 to 5ta. 654+1 Length of 2' Reconditioning (116. 73/200) (22.50) (11) ft (499.96/477.46) Sta. 654+16.99 (L. U.S.R. 224) = 5 Length of 2' Reconditioning Sta. 655+19.00 to 5ta. 662+1	n In Transition 0) (22.50) (II) 16.99 16: [II6.73+(0.01743 16: [IO7.06) 17: 654+16.99 (B 19:00	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft. 2, Ramp "B")~ =102.01 Lin.Ft.
Sta. 642+ 13.87 to Sta. 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, 5ta. 654+ 654+ 654+ 654+ 654+ 654+ 655+ 654+ 6655+ 655+	r in Transition 0) (22.50) (II) 16.99 5: [II6.73+(0.01745 5:(I,017.06) 6: 19.00 69 14.96 1: 197.99+(377.9)	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft. 8, Ramp "B")~ =102.01 Lin.Ft.
Sta. 642+ 13.87 to Sta. 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, 5ta. 654+ 654+ 654+ 655) (11) + (16.73/200) (22.50) (11) + (499.96/477.46) Sta. 654+ 16.99 (L. U.S.R. 224) = 5 Sta. 654+ 16.99 to Sta. 655+ Length of 2' Reconditioning 5ta. 655+ 19.00 to Sta. 662+ 662+ 6655+ 19.00 to Sta. 662+ 6655+ 19.00 to Sta. 662+ 6655+ 19.00 to Sta. 665+ 6655+ 19.00 to Sta. 665+ 6655+ 19.00 to Sta. 665+ 665+ 665+ 665+ 665+ 665+ 665+ 665	r in Transition 0) (22.50) (II) 16.99 16.99 16.007.06) 14.654+16.99 (B 14.96 16.0017453)(150/23	= 70.83 Lin.Ft. 3) =1,184.24 Lin.Ft. 8, Ramp "B")~ =102.01 Lin.Ft.
5ta 642+ 13.87 to 5ta 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, 5ta 642+83.20 to 5ta 654+ 6.017453) (69.33/200, 5ta 642+83.20 to 5ta 654+6.0179, (116.73/200) (22.50) (11) for (499.96/477.46) (1.05.2.224) = 5ta 655+16.99 to 5ta 655+16.99 to 5ta 662+6.0179, 662-6.0179, 662-6.0179	in Transition (22.50) (II) (6.99 (1.01.06) (1.01.06) (4.96 (1.97.99+(377.9) (0.017453)(150/23	= 70.83 Lin.Ft. = 1,184.24 Lin.Ft. 2, Ramp "B")~ = 102.01 Lin.Ft. 1) 190)2
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Sta 642+ 3.87 to Sta. 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, Sta. 642+83.20 to Sta. 654+6. Length of 2' Reconditioning (116.73/200) (22.50) (11) + (499.96/477.46) Sta. 654+ 6.99 (12. U.S.R. 224) = 3. Sta. 654+ 6.99 to Sta. 655+ 2.00 to Sta. 655+6. Length of 2' Reconditioning (159.94/163.94) + (150+6.017453) (150/250) + 147.99 + (377.4) (150+6.017453) (150/250) + 147.99 + (377.4) (150+6.017453) (150/250) + 147.99 + (377.4) (150+6.017453) (150/250) + 147.99 + (377.4) (150+6.017453) (150/250) + 147.99 + (377.4) (150/250) + 147.99 + (380.5) + 1663+44.96 to Sta. 667+9. Length of 4' Reconditioning (380.5) + 1663+44.96 to Sta. 667+9. Length of 4' Reconditioning (380.5) + 1663+43.70 to Sta. 593+9. Length of 4' Reconditioning (380.5) + 1663+9. Length of 4' Recondit	in Transition (22.50) (11) (6.99 (1.01.06) (1.01.06) (1.01.06) (1.00) (1.00) (1.01.1453) (1.50) (1.01.1453) (1.50) (1.00)	= 70.83 Lin.Ft. = 10.83 Lin.Ft. = 1,184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 99.85 Lin.Ft. = 451.88 Lin.Ft. = 451.48 Lin.Ft. = 100.00 Lin.Ft. = 100.00 Lin.Ft.
Sta 642 + 13.87 to Sta. 642 + 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, Sta. 642 + 83.20 to Sta. 654 + 6.017453) (69.33/200, Sta. 642 + 83.20 to Sta. 654 + 6.00) (10. 73/200) (22.50) (11) to (499.96/477.46) Sta. 654 + 16.99 (2. U.S.R. 224) = 3. Sta. 654 + 16.99 (2. U.S.R. 224) = 3. Sta. 655 + 19.00 to Sta. 665 + 6.00 (759.94) 763.94) + (150 + (0.017453) (150) (150) (150) (150) (100) (100)	in Transition (22.50) (11) (6.99 (1.01.06) (1.01.06) (1.01.06) (1.00) (1.00) (1.01.1453) (1.50) (1.01.1453) (1.50) (1.00)	= 70.83 Lin.Ft. = 184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 99.85 Lin.Ft. = 451.88 Lin.Ft. (Mainline)~ = 247.41 Lin.Ft. = 100.00 Lin.Ft.
Sta 642+ 1387 to Sta 642+83. Length of 2' Reconditioning 69.33+ (0.017453) (69.33/200. Sta 642+83.20 to Sta 654+1. Length of 2' Reconditioning (116.73/200) (22.50) (11) to (499.96/477.46) Sta 654+16.99 (2.115.2.224) = 5. Sta 654+16.99 to Sta 655+19.00 to Sta 655+19.00 to Sta 662+1. Length of 2' Reconditioning (759.94/763.94) + (150-6) (150/250) 2 (1/2) (4+10) (7.5) (1/2) (4/2) (7.5) (1/2) (4/2) (7.5) (1/2) (4/2) (7.5) (1/2) (4/2) (7.5) (1/2) (4/2)	in Transition (22.50) (11) (6.99 (1.01.06) (1.01.06) (1.01.06) (1.00) (1.00) (1.01.1453) (150) (1.01.1453) (150) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00)	= 70.83 Lin.Ft. = 10.83 Lin.Ft. = 1,184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 47.41 Lin.Ft. = 100.00 Lin.Ft. pary— Mainline)~ = 199.29 Lin.Ft.
Sta 642+ 13.87 to Sta. 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/200, Sta. 642+83.20 to Sta. 654+ 6. Length of 2' Reconditioning (116.73/200) (22.50) (11) + (499.96/477.46) Sta. 654+ 16.99 (2. U.S.R. 224) = 3. Sta. 654+ 16.99 (2. U.S.R. 224) = 3. Sta. 655+ 19.00 to Sta. 655+ Length of 2' Reconditioning (159.94/163.94) + (150- (150.94/163.94) + (150- (150.94/163.94) + (150- (150.94/163.94) + (150- (150.950) + 147.99 + (377. † (150+ (0.017453) (150) Sta. 663+44.96 to Sta. 667+9 Length of 2' to 4' Transition (100/250) 2 (1/2) (4+10) (7.5) Sta. 663+44.96 to Sta. 667+9 Length of 4' Reconditioning (380) Sta. 591+43.70 to Sta. 593+ Length of 4' Reconditioning (360) Sta. 593+91.11 to Sta. 594 Length of 4' Reconditioning (360) Sta. 593+91.11 to Sta. 594 Length of 4' Reconditioning (360) Sta. 632+70.15 (Ramp) to Sta. 632+70.15	10 Transition (22.50) (11) (6.99 (101.06) (101.06) (10.00)	= 70.83 Lin.Ft. 3) = [,184.24 Lin.Ft. 3, Ramp "8")~ = 102.01 Lin.Ft. 3) = 99.85 Lin.Ft. (Mainline)~ = 247.41 Lin.Ft. = 100.00 Lin.Ft. (Mainline)~ = 199.29 Lin.Ft.
Sta 642 + 1387 to Sta 642 + 83 Length of 2' Reconditioning 69. 33 + (0.017453) (69.33/200, Sta 642 + 83.20 to Sta 654 + 1, Length of 2' Reconditioning (16. 73/200) (22.50) (11) + (499.96/477.46) Sta 654 + 16.99 (£. U.S.L. 224) = 5 Sta 654 + 16.99 to Sta 655 + Length of 2' Reconditioning (759.94/763.94) + [150- (4)(750)] + 147.99 + (377. + (150 + (0.017453)) (150) Sta 662 + 44.96 to Sta 663 Length of 2' to 4' Transition (100/250)² (1/2) (4+10) (7.5 Sta 663 + 44.96 to Sta 667 + 9 Length of 4' Reconditioning (380) Sta 667 + 98.03 (£. Ramp B') = Sta 591 + 43.70 to Sta 593 + Length of 4' Reconditioning Sta 593 + 91.11 to Sta 694 Length of 4' Reconditioning Ramp "B" ~ Shoulder Recondit Sta 632 + 70.15 (Ramp) to Sta 6	10 Transition (22.50) (11) (6.99 (1017.06)	= 70.83 Lin.Ft. = 1,184.24 Lin.Ft. = 1,184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 100.00 Lin.Ft. = 100.00 Lin.Ft. = 799.29 Lin.Ft. 1 9=3307.07 Lin.Ft.
Sta 642 + 1387 to Sta 642 + 83 Length of 2' Reconditioning 69. 33 + (0.017453) (69.33/200, Sta 642 + 83.20 to Sta 654 + 6 Length of 2' Reconditioning (16. 73/200) (22.50) (11) + (499.96/477.46) Sta 654 + 16.99 (£. U.S.L. 224) = 5 Sta 654 + 16.99 to Sta 655 + Length of 2' Reconditioning (759.94/763.94) + [150- (4)(750)] + 147.99 + (377. + (150 + (0.017453)) (150) Sta 662 + 44.96 to Sta 663 Length of 2' to 4' Transitio (100/250)² (1/2) (4+10) (7.5 Sta 663 + 44.96 to Sta 667 + 9 Length of 4' Reconditioning (380) Sta 667 + 98.03 (£. Ramp B') = Sta 591 + 43.70 to Sta 593 + Length of 4' Reconditioning Sta 593 + 91.11 to Sta 694 Length of 4' Reconditioning Camp "B" ~ Shoulder Reconditioning Sta 632 + 70.15 (Ramp) to S	10 Transition (22.50) (11) (6.99 (1017.06)	= 70.83 Lin.Ft. = 1,184.24 Lin.Ft. = 1,184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 100.00 Lin.Ft. = 100.00 Lin.Ft. = 799.29 Lin.Ft. 1 9=3307.07 Lin.Ft.
Sta 642+ 1387 to Sta 642+ 83. Length of 2' Reconditioning 69.33 + (0.017453) (69.33/2005 5ta 642+83.20 to Sta 654+16. Length of 2' Reconditioning (116.73/200) (22.50) (11) ft (499.96/477.46) Sta 654+16.99 (2.05.2.224) = 55	in Transition (22.50) (11) 16.99 16.99 16.99 16.99 16.99 16.00 16.654+16.99 (8 19.00 19.199+(37.9) 19.190+(37.9) 19.190+(37.9) 19.11	= 70.83 Lin.Ft. = 1,184.24 Lin.Ft. = 1,184.24 Lin.Ft. = 102.01 Lin.Ft. = 102.01 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 451.88 Lin.Ft. = 100.00 Lin.Ft. = 100.00 Lin.Ft. = 799.29 Lin.Ft. 1 9=3307.07 Lin.Ft.

	<i>U.</i> 5.
1.5.R. 224 Interchange ~ Ramp "B"~(Cont.)-	
Shoulder Leconditioning ~ (Cont.)~	2
617 Shoulder Preparation (199.29) (0.444	1444)
+ (3,307.07 + 140.98) (0.222222	
+ (99.85)(1/2)(4+2)(1/9)	=1,154.76 59.76.
6/7 Compacted Aggregate (199.29) (0.046	(36)
+ (3,367.07) (0.023148) + (1/2) (140. (0.023148) + (99.85) (1/2) (4+2) (1/9) (.	90) 375)
(0.023140)	= 118.65 Cu Yd
202 Wearing Course Removed (17+3+3) (1	<i>v</i>)
(119)	=178.89 59.40.
15R 224 Interchange ~ Ramp "C"~	
Pavement~	
Sta. 557+25.00 to Sta. 558+25.00	
Area (1/2) (12) (100) (1/9)	= 66.67 Sq. Yd.
Sta. 558 + 25.00 to Sta. 559 + 20.74	10765 Ca Val
Area (12)(95.74)(1/9) Sta.559+20.74 (1, U.S.R. 30) = Sta.559+20.7	= 187.65 59.7d.
5/a.559+20.74 (v. 0.5.2.50) - 5/a.559+20.7	4 (DE ROTTIPO O)
Area -{(1/2)(26.89)(452.80) - 2031.01]+((1.12)(14	(1+2)
-(1/4)71(2)27+[(1/2)(22.91)(2)-(1/4)71(2	7)27
+ (12)(454.72)	=1,060.90 Sq. Yd
9ta. 563 + 73.81 to 9ta. 564 + 73.81	
Area : [100 + (0.017453) (100/200)2 (1/2) (9+	(8)
(3.25)] (1/2)(18+16)(1/9)	= 189.12 Sq. Yd.
Sta. 564 + 73.81 to Sta. 572 + 30.44 Area: {[100 + (0.017453)(100/200)] (8)(3.0	25)7
+ (656.63)(724.20/716.20) (16)(1/9)	
Sta 572+30.44 to Sta 573+55.00	
Area · [124.56 + (0.017453)(124.56/250)2 ((1/2)
(8+7)(10)(1/2)(16+14)(1/9)	= 208.14 Sq. Yd.
Sta. 573+55.00 to Sta. 574+80.44	(a)
Area · (125,44 + (0.017453) (125,44 /250)2 (1/2	= 209.62 Sq. Yd.
(7+8)(10)[(1/2)(14+16)(1/9) 5fa:574+80:44 fo:5fa:580+25:00_	
Area (544.56)(1/2)(35+26)-(1/2)(2)(1)](1/	(9) =1,844.29 5q. Yd.
Sta. 580 + 25.00 to Sta. 584 + 51.75	
Area (426.75) (1/2) (26+18) (1/9)	=1,043.17 Sq.Yd.
Sta. 584+51.75 to Sta. 588+16.68	
Area ((364.93)(1/2)(19.50+12)-(1/4) TI (1.50	= 638.43 Sq. Yd.
Pavement Sub-Summary~	-0.50.45 59.10.
Sta. 557+ 25.00 (Mainline) to Sta. 588+ 1	16.68 (Ramo "C")~
Area 66.67 + 127.65 + 1,060.90 + 189.12 + 1,33	58.36
+ 208.14 + 209.62 + 1,844.29 + 1,043.17	
+ 638.43	=6,746.35 Sq. Yd.
848, Type 1: (1.25) (1/36) (6,746.35)	= 234.25 GU.Yd.
848, Type 2: (1.50) (1/36) (6,746.35)	= 281.10 Cu. Yd. = 674.63 Gə/s.
407 Tack Coat (6,746.34) (0.10) 407 Cover Aggregate (6,746.35) (7/20	· · · · · · · · · · · · · · · · · · ·
Sta. 588+ 16.68 to Sta. 589+54.18 ~ (13	7.50 Taper)~
848, Type 1: (12) (0.487076)	= 5.84 Cu. Yd.
848, Type 2: (12)(0.096451)	= 1.16 Cu. Yd.
407 Tack Coat (12) (1.527778)	= 18.33 Ga/s.
407 Cover Aggregate: (12)(0.053472) Ramp "C"~Pavement Summary~	= 0.64 Ton
848, Type 1: 234.25 + 5.84	= 240.09 Cu. Yd.
848, Type 2: 281.10+1.16	=282.26 Cu.Yd.
407 Tack Coat: 674.63 + 18.33	=692.96 Gals.
407 Cover Aggregate 23.61 + 0.64	= 24.25 Tons
Shoulders~	
5ta.557+25.00 to 5ta.558+25.00 Area: (100)(8)(119)	= 88.89 Sq. Yd.
Sta 558 + 2500 to Sta 559 + 20.74	•
Area (95.74)(8)(1/9)	= 85.10 Sq. Yd.
Area: (95.74)(8)(1/9) 5ta: 559 + 20.74 (6. U.S.P.30) = 5ta: 559 + 20. 6ta: 560 + 20.74 + 6. 5ta: 563 + 73.8/	74 (B. Ramp "C")~
3/4.339 1 60.74 10 3/4.303 13.01	
Area (453.07) (3,815.72 3,819.72) (8) (1/9)	= 402.31 Sq. Yd.
5ta.563+73.81 to 5ta.564+73.81 1-0-5(100+(0017163)(1001200)2(112)(10.60	4 (750)
Area: {[100 + (0.017453) (100/200) ² (1/2) (19.50 (3.25)] (3) + (100) (1/2) (14+10) + [100-(0.0 (100/200) ² (1/2) (4+1.50) (3.25)] (1/2) (8+3)}	0/2453)
(100/2002 (1/2)(4+1.50)(3.25)7(1/2)(8+3)	(1/9) = 227.84 50.40.

U.S.R. 224 Interchange ~ Ramp "C"~(Cont.)~	
Shoulders ~ (CONT.) ~	
5ta.563+73.8/ to 5ta.564+73.8/~(Cont.))~
Area of Concrete Gore Pavement	= 35.00 Sq. Yd.
Sta. 564+13.81 to Sta. 572+30.44	- 17
Area : 8[100 + (0.017453) (100/200) 2 (17.50) (3.2	(5)
+ (656.63) (733.70/716.20) + [100-(0.01.	7453)
(100/200)2 (1.50) (3.25)]+(656.63)	
(714.70) 716.29) (3)(1/9)	=509.39 Sq. Yd.
Sta 572+30.44 to Sta 573+55.00	(0)
Area : 7[124.56 + (0.017453) (124.56/250) 2 (1)	<i>(C)</i>
(17.50 + 15.50)(10)] (1/2) (3+2) + (124.56)	·/›)
-(0.017453)(124.56/250) ² (1/2)(1.50+4.	= 110.85 SaVd
(10) (1/2) (3+8) f (1/9) Area of Curb Removal : (117.25) (8/12) (1/9)	= 110.85 Sq. Yd. = 8.69 Sq. Yd.
5ta 573+ 55.00 to Sta 574+ 80.44	- 0.03 59.10.
Area: ={[125.44-(0.017453)(125.44/250)2 (4)(10)7
(8) + (129.12)(1/2)(4+13.75) (1/9)	= 238.67 59.76.
Area of 6' to 3' Variable Width Curb	•
Removal: (130.30) (1/2) (6+3) (1/9)	= 65.15 Sq. Yd.
Sta. 574 + 80.44 to Sta. 580 + 25.00	
Area: (544.56)(8)(1/9)	= 484.05 Sq. Yd.
5ta 580+25.00 to 5ta 584+51.75	
Area (426.75) (8) (1/9)	= 379.33 Sq.Yd.
Sta 584 + 51.75 to Sta 588 + 16.68	
Area: (364.93)(8)(1/9)	= 324.38 Sq. Yd.
Shoulder Sub-Summary ~	
Sta. 557+25.00 (Mainline) to Sta. 588+16.	68 (Kamp C)~
Area: 88.89 + 85.10 + 402.31 + 227.84 + 509.	39
+ 110.85 + 238.67 + 484.05 + 379.33	-2850 8/ 50 Vd
+324.38	= 2,850.8/ 5q.Yd. = 8.69 5q.Yd.
Area of 8" Curb Removal Area of Variable Width Curb Remova!	= 65.15 5q. Yd.
Area of Concrete Gore Pavement	= 35.00 59.16.
010 T (1. (1.20) (1/20) (2.850, 01.1.8.50)	
- 04A \\ne \ (.25 (.30 (C.000.0) +0.09+3.	3.001=1110.50
848, Type / : (1.25)(1/36)(2,850.8/+8.69+3. 848, Type 2 : (1.50)(1/36)(2.850.8/+8.69+35.	3.00]=100.30
848, Type 2 · (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat · (2,850.81 - 65.15) (0.10)	** (00)= 20.60 Cu.\d. ** 278.57 Gals:
848, Type 2 · (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat · (2,850.81 - 65.15) (0.10)	** (00)= 20.60 Cu.\d. ** 278.57 Gals:
848, Type 2 · (1.50) (1/36) (2,850.81 + 8.69 + 35.	700)= 120.60 Cu.Yd. = 278.57 Ga/s. (000)= 9.75 Tons
848, Type 2 : (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat : (2,850.81 - 65.15) (0.10) 407 Cover Aggregate : (2,850.81 - 65.15) (1/2 Sta. 588 + 16.68 to Sta. 589 + 54.18 ~ (137.50) 848, Type 1 : (8) (0.487076)	700)= 120.60 Cu.Yd. = 278.57 Ga/s. 1000)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451)	(00)= 120.60 Cu.Yd. = 278.57 Gals. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd.
848, Type 2 : (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat : (2,850.81 - 65.15) (0.10) 407 Cover Aggregate : (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50 848, Type 1 : (8) (0.487076) 848, Type 2 : (8) (0.096451) 407 Tack Coat : (8) (1.527778)	(00)= 120.60 Cu.Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472)	(00)= 120.60 Cu.Yd. = 278.57 Gals. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2.5) 5ta. 588 + 16.68 to Sta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~	(00)= 120.60 Cu.Yd. = 278.57 Ga/s. (000)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 0.43 Ton
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2. 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90	(00)= 120.60 Cu.Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu.Yd.
848, Type 2: (1.50) (1/36) (2,850.8/+8.69+35. 407 Tack Coat: (2,850.8/-65.15) (0.10) 407 Cover Aggregate: (2,850.8/-65.15) (1/2.5) 5ta. 588+16.68 to Sta. 589+54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77	(00)= 120.60 Cu.Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu.Yd. = 121.37 Cu.Yd.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta 588 + 16.68 to 5ta 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22	(00)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100,50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43	(00)= 120.60 Cu.Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu.Yd. = 121.37 Cu.Yd.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2) 5ta. 588 + 16.68 to Sta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~	(00)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00	(00)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning	(00) = 120.60 Cu. Yd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 35. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning	(00) = 120.60 Cu. Yd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2,850.81+8.69+35. 407 Tack Coat: (2,850.81-65.15) (0.10) 407 Cover Aggregate: (2,850.81-65.15) (1/2) 5ta. 588+16.68 to 5ta. 589+54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100,50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557+25.00 to 5ta. 558+25.00 Length of 4' Reconditioning 5ta. 558+25.00 to 5ta. 559+20.74 Length of 4' Reconditioning 5ta. 559+20.74 (1.05.2.30) = 5ta. 559+20.74	(00) = 120.60 Cu. Yd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2,850.81+8.69+38. 407 Tack Coat: (2,850.81-65.15) (0.10) 407 Cover Aggregate: (2,850.81-65.15) (1/2 5ta.588+16.68 to 5ta.589+54.18 ~ (137.50) 848, Type 1: (8) (0.096.45)) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta.557+25.00 to 5ta.558+25.00 Length of 4' Reconditioning Sta.559+20.74 (1.05.8.30) = 5ta.559+20.74 Length of 4' Reconditioning 5ta.559+20.74 (1.05.8.30) = 5ta.559+20.74 Sta.559+20.74 (1.05.8.30) = 5ta.559+20.74	(00) = 120.60 Cu. Yd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2.850.81 + 8.69 + 35. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (1/2) 5ta.588 + 16.68 to 5ta.589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta.557 + 25.00 to 5ta.558 + 25.00 Length of 4' Reconditioning Sta.559 + 20.74 (1.05.8.30) = 5ta.559 + 20.74 Length of 4' Reconditioning: (453.07)	(00) = 120.60 Cu. Vd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Gu. Vd. = 0.77 Gu. Vd. = 12.22 Ga/s. = 104.40 Gu. Vd. = 121.37 Gu. Vd. = 121.37 Gu. Vd. = 290.79 Ga/s. = 10.18 Tons = 100.00 Lin. Ff. 0.74 (B. Ramp "C")
848, Type 2: (1.50) (1/36) (2.850.81 + 8.69 + 35. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) (3809.72/38)	(00) = 120.60 Cu. Yd. = 278.57 Ga/s. (200) = 9.75 Tons (Taper) ~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 290.79 Ga/s. = 10.18 Tons
848, Type 2: (1.50) (1/36) (2,850.81+8.69+38. 407 Tack Coat: (2,850.81-65.15) (0.10) 407 Cover Aggregate: (2,850.81-65.15) (1/2 5ta. 588+16.68 to 5ta. 589+54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557 + 25.00 to 5ta. 558+25.00 Length of 4' Reconditioning 5ta. 559+20.74 Length of 4' Reconditioning 5ta. 559+20.74 to 5ta. 563 + 73.81 Length of 4' Reconditioning: (453.07) (3809.72/38) 5ta. 563+73.81 to 5ta. 564+73.81	(00)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (Taper)~ = 3.90 Cu. Yd. = 0.77 Cu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Cu. Yd. = 121.37 Cu. Yd. = 190.79 Ga/s. = 10.18 Tons = 10.00 Lin. Ff. 0.74 (B. Ramp "C")
848, Type 2: (1.50) (1/36) (2,850.81+8.69+38. 407 Tack Coat: (2,850.81-65.15) (0.10) 407 Cover Aggregate: (2,850.81-65.15) (1/2 5ta. 588+16.68 to 5ta. 589+54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta. 557 + 25.00 to 5ta. 558+25.00 Length of 4' Reconditioning 5ta. 559+20.74 (2.05.230) = 5ta. 559+20.74 Length of 4' Reconditioning: (453.07) 5ta. 563+73.81 to 5ta. 564+73.81 Length of 4' the 2' Transition: 100-600.	(200)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (7aper)~ = 3.90 Gu. Yd. = 0.77 Gu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Gu. Yd. = 121.37 Gu. Yd. = 121.37 Gu. Yd. = 10.18 Tons = 10.00 Lin. Ft. (2.74 (B. Ramp "C")
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 38. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.09645)) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning 5ta. 558 + 25.00 to 5ta. 559 + 20.74 Length of 4' Reconditioning 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) (3809.72/38) Sta. 563 + 73.81 to 5ta. 564 + 73.81 Length of 4' to 2' Transition: 100-(0.01) (100/200) ² (1/2) (10+4) (3.2.2)	(200)= 120.60 Cu. Yd. = 278.57 Ga/s. (200)= 9.75 Tons (7aper)~ = 3.90 Gu. Yd. = 0.77 Gu. Yd. = 12.22 Ga/s. = 0.43 Ton = 104.40 Gu. Yd. = 121.37 Gu. Yd. = 121.37 Gu. Yd. = 10.18 Tons = 10.00 Lin. Ft. (2.74 (B. Ramp "C")
848, Type 2: (1.50) (1/36) (2.850.81+869+36. 407 Tack Coat: (2.850.81-65.15) (0.10) 407 Cover Aggregate: (2.850.81-65.15) (1/2) 5ta. 588+16.68 to 5ta. 589+54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645)) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557+25.00 to 5ta. 558+25.00 Length of 4' Reconditioning 5ta. 559+20.74 (1.05.8.30) = 5ta. 559+20.74 Length of 4' Reconditioning: (453.07) 5ta. 559+20.74 (1.05.8.30) = 5ta. 559+20.74 Length of 4' Reconditioning: (453.07) 5ta. 563+73.81 to 5ta. 564+73.81 Length of 4' to 2' Transition: 100-(0.01) (100/200) ² (1/2) (10+4) (3.23 5ta. 564+73.81 to 5ta. 572+30.44 Length of 2' Reconditioning: (100-(0.01)	(100) = 120.60 Cu \d. = 278.57 Gals. 200) = 9.75 Tons Taper) ~ = 3.90 Gu \d. = 0.77 Gu \d. = 12.22 Gals. = 0.43 Ton = 104.40 Gu \d. = 121.37 Gu \d. = 121.37 Gu \d. = 10.18 Tons = 10.00 Lin. Ft. 2.74 (B. Lamp 'C') 29.72 = 451.88 Lin. Ft. 2453) = 99.90 Lin. Ft.
848, Type 2: (1.50) (1/36) (2.850.81 + 869 + 38. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (7/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ Shoulder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20. Sta. 559 + 20.74 to 5ta. 563 + 73.81 Length of 4' Reconditioning: (453.07) (3809.72)38. 5ta. 563 + 73.81 to 5ta. 564 + 73.81 Length of 2' Reconditioning: (100-(0.01) (100/200) ² (1/2) (10+4) (3.23 5ta. 564 + 73.81 to 5ta. 572 + 30.44 Length of 2' Reconditioning: [100-(0.01) (100/200) ² (4) (3.25)] + (656.63) (712.20/76)	(100) = 120.60 Cu \d. = 278.57 Gals. (200) = 9.75 Tons (7aper) ~ = 3.90 Cu \d. = 0.77 Cu \d. = 12.22 Gals. = 0.43 Ton = 104.40 Cu \d. = 121.37 Cu \d. = 120.79 Gals. = 10.18 Tons = 100.00 Lin. Fl. (1.74 (B. Lamp 'C')) (1.753) (1.7453) (1.7453) (1.7453)
848, Type 2: (1.50) (1/36) (2.850.81 + 869 + 35. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (7/2 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.96451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) 5ta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) 5ta. 563 + 73.81 to 5ta. 564 + 73.81 Length of 4' to 2' Transition: 100 - (0.01) (100/200) (1) (0.40/3.25) 5ta. 564 + 73.81 to 5ta. 572 + 30.44 Length of 2' Reconditioning: (100 - (0.01) (100/200) (10) (3.25) (100/200) (20) (3.25) (100/200) (20) (3.25) (100/200) (20) (3.25) (100/200) (20) (3.25) (3.25)	(100) = 120.60 Cu \d. = 278.57 Gals. (200) = 9.75 Tons (13per) ~ = 3.90 Gu \d. = 0.77 Gu \d. = 12.22 Gals. = 0.43 Ton = 104.40 Gu \d. = 121.37 Gu \d. = 121.37 Gu \d. = 10.18 Tons = 100.00 Lin. Ff. (1453) (1453) (15) = 99.90 Lin. Ff. (1453) (15) = 99.90 Lin. Ff.
848, Type 2: (1.50) (1/36) (2.850.81 + 8.69 + 38. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (7/2 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Tack Coat: (8) (1.527778) 407 Tack Coat: (8) (1.527778) 848, Type 1: 100.50 + 3.90 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Tack Coat: 278.57 + 12.22 407 Tack Coat: 3.95 + 0.43 Shoulder Reconditioning 84a. 557 + 25.00 to 57a. 558 + 25.00 Length of 4' Reconditioning 81a. 558 + 25.00 to 57a. 558 + 25.00 Length of 4' Reconditioning 81a. 559 + 20.74 (1.05.8.30) = 57a. 559 + 20.74 Length of 4' Reconditioning: (453.07) (3809.72/38) 51a. 563 + 73.81 to 57a. 564 + 73.81 Length of 4' to 2' Transition: 100 - (0.01.10) (100/200) ² (1/2)(10+4)(3.25) 51a. 564 + 73.81 to 57a. 572 + 30.44 Length of 2' Reconditioning: (100-(0.01.10) (100/200) ² (4) (3.25) + (656.63) (712.20/716.4) + [100 + (0.017453) (100/200) ² (20) (3.25)] + (656.63) (736.20/716.20)	(100) = 120.60 Cu \d. = 278.57 Gals. (200) = 9.75 Tons (7aper) ~ = 3.90 Cu \d. = 0.77 Cu \d. = 12.22 Gals. = 0.43 Ton = 104.40 Cu \d. = 121.37 Cu \d. = 120.79 Gals. = 10.18 Tons = 100.00 Lin. Fl. (1.74 (B. Lamp 'C')) (1.753) (1.7453) (1.7453) (1.7453)
848, Type 2: (1.50) (1/36) (2.850.81 + 8.69 + 38. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (7/2) 5ta 588 + 16.68 to 5ta 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Tack Coat: (8) (1.527778) 848, Type 1: 100.50 + 3.90 848, Type 1: 100.50 + 3.90 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Reconditioning ~ 5ta.557 + 25.00 Length of 4' Reconditioning 5ta.557 + 25.00 to 5ta.558 + 25.00 Length of 4' Reconditioning 5ta.559 + 20.74 (1.05.8.30) = 5ta.559 + 20.74 Length of 4' Reconditioning: (453.07) (3809.72/38) 5ta.563 + 73.81 to 5ta.564 + 73.81 Length of 4' to 2' Transition: 100 - (0.01.16) (100/200) ² (1/2)(104)(3.23.5) 5ta.564 + 73.81 to 5ta.572 + 30.44 Length of 2' Reconditioning: (100 - (0.01.16) (100/200) ² (4) (3.25)] + (656.63) (712.20/716) + (100 + (0.017453) (100/200) ² (20) (3.25)] + (656.63) (736.20/716.20) 5ta.572 + 30.44 to 5ta.573 + 55.00	(200) = 120.60 Cu. Vel. = 278.57 Gals. 200) = 9.75 Tons Taper) ~ = 3.90 Gu. Vel. = 0.77 Gu. Vel. = 12.22 Gals. = 104.40 Gu. Vel. = 121.37 Gu. Vel. = 1290.79 Gals. = 10.00 Lin. Fl. 29.70 = 451.88 Lin. Fl. 29.70 = 99.90 Lin. Fl. 2453) 50 = 99.90 Lin. Fl. 2453) = 1,528.16 Lin. Fl.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 38. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (7.16) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" — Showlder Summary— 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Showlder Leconditioning— 5ta.557 + 25.00 to 5ta.558 + 25.00 Length of 4' Reconditioning 5ta.559 + 20.74 (1.05.2.30) = 5ta.559 + 20.74 Length of 4' Reconditioning: (453.07) Sta.563 + 73.81 to 5ta.564 + 73.81 Length of 4' Reconditioning: (453.07) (3809.72/38) Sta.564 + 73.81 to 5ta.564 + 73.81 Length of 2' Reconditioning: (100-(0.01) (100/200) 2 (4) (3.25) 1 + (656.63) (712.20/716) + (100 + (0.017453) (100/200) 2 (20) (3.25) 1 + (656.63) (736.20/716.20) 5ta.572 + 30.44 to 5ta.573 + 55.00 Length of 2' to 4' Transition: 124.56-(0.01)	(200) = 120.60 Cu.Yd = 278.57 Ga/s (200) = 9.75 Tons Taper)~ = 3.90 Cu.Yd = 0.77 Cu.Yd = 12.22 Ga/s = 104.40 Cu.Yd = 121.37 Cu.Yd = 121.37 Cu.Yd = 10.18 Tons = 10.00 Lin.Ff (2.74 (B. Ramp Er) (2.74) = 451.88 Lin.Ff (2.74) = 99.90 Lin.Ff (2.753) (2.753) (2.753) (2.753) (2.753) (2.753)
848, Type 2: (1.50) (1/36) (2.850.81 + 8.69 + 38. 407 Tack Coat: (2.850.81 - 65.15) (0.10) 407 Cover Aggregate: (2.850.81 - 65.15) (7.16) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.096451) 407 Cover Aggregate: (8) (0.053472) Ramp "C" - Shoulder Summary - 848, Type 1: 100.50 + 3.90 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning - 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning Sta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20. Sta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20. Sta. 563 + 73.81 to 5ta. 564 + 73.81 Length of 4' Reconditioning: (453.07) (3809.72/38) Sta. 564 + 73.81 to 5ta. 564 + 73.81 Length of 2' Reconditioning: (100 - (0.01) (100/200) 2 (4) (3.25) 1 + (656.63) (712.20/716) + (100 + (0.017453) (100/200) 2 (20) (3.25) 1 + (656.63) (736.20/716.20) Sta. 572 + 30.44 to 5ta. 573 + 55.00 Length of 2' to 4' Transition: 124.56 - (0.01) (124.56/250) 2 (1/2) (4+10) (10)	(200) = 120.60 Cu. Vel. = 278.57 Gals. (200) = 9.75 Tons Taper) ~ = 3.90 Gu. Vel. = 0.77 Gu. Vel. = 12.22 Gals. = 104.40 Gu. Vel. = 121.37 Gu. Vel. = 121.37 Gu. Vel. = 120.00 Lin. Fl. (20.79 Gals. = 10.00 Lin. Fl. (20.79) = 451.88 Lin. Fl. (20.79) = 451.88 Lin. Fl. (20.79) = 451.88 Lin. Fl. (20.79) = 99.90 Lin. Fl. (20.79) = 99.90 Lin. Fl. (20.79) = 124.26 Lin. Fl. (20.79) = 124.26 Lin. Fl. (20.79) = 124.26 Lin. Fl.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 38. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2) 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning Sta. 559 + 20.74 (1.4.4.5.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) (3809.72/38) Sta. 563 + 73.81 to 5ta. 563 + 73.81 Length of 4' to 2' Transition: (453.07) (100/200) 2 (4) (3.25) 7 (656.63) (712.20/716.100/200) 2 (4) (3.25) 7 + (656.63) (712.20/716.100/200) 2 (4) (3.25) 7 + (656.63) (712.20/716.100/200) 2 (4) (3.25) 7 + (656.63) (712.20/716.100/200) 2 (4) (3.25) 7 + (656.63) (736.20/716.20) Sta. 572 + 30.44 to 5ta. 573 + 55.00 Length of 2' to 4' Transition: 124.56 - (0.016.100/200) 2 (1.00	(200) = 120.60 Cu.Yd = 278.57 Ga/s (200) = 9.75 Tons Taper)~ = 3.90 Cu.Yd = 0.77 Cu.Yd = 12.22 Ga/s = 104.40 Cu.Yd = 121.37 Cu.Yd = 121.37 Cu.Yd = 10.18 Tons = 10.00 Lin.Ff (2.74 (B. Ramp Er) (2.74) = 451.88 Lin.Ff (2.74) = 99.90 Lin.Ff (2.753) (2.753) (2.753) (2.753) (2.753) (2.753)
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 38. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/16) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645) 407 Tack Coat: (8) (1.527778) 407 Cover Aggregate: (8) (0.053472) Ramp "C" - Shoulder Summary - 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.77 407 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning - 84a. 557 + 25.00 to Sta. 558 + 25.00 Length of 4' Reconditioning Sta. 558 + 25.00 to Sta. 559 + 20.74 Length of 4' Reconditioning: (453.07) Sta. 569 + 20.74 (6.05.8.30) = Sta. 559 + 20.74 Length of 4' Reconditioning: (453.07) Sta. 563 + 73.81 to Sta. 564 + 73.81 Length of 4' to 2' Transition: 100 - (0.01) (100/200) 2 (4) (3.25) 7 + (656.63) (102.20) 7 (6.01) + [100 + (0.07453) (100/200) 2 (20) (3.25) 7 + (656.63) (736.20) 116.20 Sta. 572 + 30.44 to Sta. 573 + 55.00 Length of 2' Reconditioning: 124.56 - (0.01) (124.56/250) 2 (1/2) (4+10) (10) Length of 2' Reconditioning Sta. 573 + 55.00 to Sta. 574 + 80.44	(100) = 120.60 Cu.Yd. = 278.57 Ga/s. 200) = 9.75 Tons Taper) ~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 104.40 Cu.Yd. = 121.37 Cu.Yd. = 1290.79 Ga/s. = 10.00 Lin.Ff. 295.74 Lin.Ff.
848, Type 2: (1.50) (1/36) (2,850.81 + 8.69 + 38. 407 Tack Coat: (2,850.81 - 65.15) (0.10) 407 Cover Aggregate: (2,850.81 - 65.15) (1/2) 5ta. 588 + 16.68 to 5ta. 589 + 54.18 ~ (137.50) 848, Type 1: (8) (0.487076) 848, Type 2: (8) (0.09645) 407 Cover Aggregate: (8) (0.053472) Ramp "C" ~ 5houlder Summary ~ 848, Type 1: 100.50 + 3.90 848, Type 1: 100.50 + 3.90 848, Type 2: 120.60 + 0.17 401 Tack Coat: 278.57 + 12.22 407 Cover Aggregate: 9.75 + 0.43 Shoulder Leconditioning ~ 5ta. 557 + 25.00 to 5ta. 558 + 25.00 Length of 4' Reconditioning Sta. 559 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) Sta. 569 + 20.74 (1.05.2.30) = 5ta. 559 + 20.74 Length of 4' Reconditioning: (453.07) Sta. 563 + 73.81 to 5ta. 564 + 73.81 Length of 4' to 2' Transition: (20.00) Sta. 564 + 73.81 to 5ta. 564 + 73.81 Length of 2' Reconditioning: (100 - (0.01) (100/200) 2 (4) (3.25) 1 + (656.63) (712.20) 716. (100/200) 2 (4) (3.25) 1 + (656.63) (712.20) 716. (100/200) 2 (4) (3.25) 1 + (656.63) (712.20) 716. (124.56 250) 2 (1/2) (4+10) (10) Length of 2' Reconditioning	(100) = 120.60 Cu.Yd. = 278.57 Ga/s. 200) = 9.75 Tons Taper) ~ = 3.90 Cu.Yd. = 0.77 Cu.Yd. = 12.22 Ga/s. = 104.40 Cu.Yd. = 121.37 Cu.Yd. = 1290.79 Ga/s. = 10.00 Lin.Ff. 295.74 Lin.Ff.

	Computations Checked By	5	оню		*	3	65
,	Initials 416 Date 12-20-83	VAN A	IFPT	COUNT	V		
	Final Revisions By		30-4.0				
4	U.S.R. 224 Interchange ~ K						٠
	Shoulder Reconditioning	7~ (Co)	~()~(<i></i>	4		•
	Sta. 574 + 80.44 to Sta. 3						· ·
	Length of 4' Recondition				544.	56 Lin.	Ff.
	5ta. 580 + 25.00 to 5ta. 5		1.75		40		
	Length of 4' Recondition		~ <i>Ca</i>	200000	426	î. 75 Lin.	Ff
	Sta 584 + 51.75 to Sta 5 Length of 4' Recondition		260		26/	1.93 Lin.	FF.
*	5ta.588+16.68 to Sta.5		118		JU4	. 30 L//.	/ /.
	Length of 4' Recondition	מוחס וו	r Tapei	<u></u>	137.	50 Lin.	F.
	Ramp "C" ~ Shoulder Reco.	nditioi	ning 5				
••	Length of 4' Recondition	ing · K	10:00+.	95.74			
	7 451.88 + 125.00 + 544						
*	Length of 2' Recondition	1.ng: 1,5	00.00	6.40 =	1,53.	3.56 LIN.	ft.
	Length of 4' to 2' Trans	5/7/0/15	in Tan)+	127	7.10 LM. 150 LM.	FF.
	Length of 4' Recondition 617 Shoulder Prepara.	rtion:	(2 108 8)	S+13750)	10%	JO 2//1.	//.
	017 311001001 17600101) · ((0) / (0.4144	(44)			¥
		+	(1,533.56	;)(0.22222)	9		
		+	(224.16)	6)(0.22222) (1/2)(4+2)			
		. 9	<i>(19)</i>	-	1,413.	39 Sq.)	6
•	617 Compacted Aggrega	ete: (Z		1.046296)		•	
		7//3	533.56)(0.	023/48))		TOON
,		7()	37.50)(//2/	(0.046296)			
		12	24.16)(1/2 26\(1\(12\)	(1/22) -	111	10 0	16/
		(3.7	3)(1/12)	(1/27) =	144.	10 00.1	VO.
. * *	U.S.R. 224 Interchange ~	Ramp	"D"~			* * * * * * * * * * * * * * * * * * *	
	Pavement~						
•	Sta. 564 + 74.72 to 57	a. 567	+ 84. 74		,,,,		
	Area (by planimeter)	<i>ECO</i> /	0171		119.	56 Sq.	<i>YO.</i> "
	5ta. 567 + 84.74 to 5ta.			(1/0)	100	000 50	V
	Area (100) (772.44/ 763.9 5ta 568+ 84.74 to 5ta	4)(1/4)(578+	75 M	(1/9) =	190.	99 59.	<i>Y</i>
	Area: 2(924.04) (771,941	763.94	1) + (60	5.22			
	+ (0.017453) (66.22	(250)	2 (8) (9.	375)/ {		•	
	(16)(119)			=	1,77	7.83 59.	Yd.
	5ta 578+75.00 to 5ta						
	Area : 5/83.78 + (0.0/7453)	1/83.70	8/250) ²	(1/2)	21		
	(9+8)(9.375)} (1/2)	(18+16)	(//9)		340	8.56 Sq.	<i>YO.</i>
	Sta. 580 + 58.78 to Sta. 3	103 F I	O. 10		501	200 50	V/
	Area (300)(1/2)(16+14)(1/3 5+a 583+58.78 (B. Ramp	(")") = ·	5/2 58	3+ 58 78 [900	5 P 30)	70.
	51a.583+58.78 to 51a.5	595+1	51). 50.70 (y	<i>. O. J</i>	.K. 96)	•
	Area (1/2) (25) (1,200) (1/9)			-	1.66	6.6759,	Yd.
. •	Ramp "D" ~ Pavement Su	ואותו	v~	•			
	Area: 179.56 + 190.99 + 1	1777.8	3 + 340	9.56		•	*
	+ 500.00 + 1,666.61		1			63.61 Sq.	
	848, Type 1 · (1.25) (1/36) (4,663.6				1.93 CU.,	
	848, Type 2 · (1.50) (1/36) (4	3,663.6				1,32 CU.	,
	407 Tack Coat (4663.6	11(0.10	() (51) (7)	,	-	6.36 Ga 32 Tol	
	407 Cover Aggregate: Shoulders~	(4,60).	01) (11.	2000) –	10.	JE 101.	/5
	Sta. 564 + 74.72 to St	12 567	+ 84 72	1			
p -	Area : \[[250 - (0.017453) (4	1)(7.49)	7 + (60.	02)	•		
	(759.94/763.94)},(8	8)(1/9)			274	1.83 59	16.
	Sta 567 + 84.74 to Sta. 3	568+84	1.74				
	Area: (100) (782.44/763.5	4)(3)((9) + (1	(00)	· .		1//
	(761. 19/763.94) (1/2	?)(8+3)) (<i>[[9]</i>)	•	= <i>99</i>	03 59	Yd.
	Area of Concrete Gore	5701	ement 1500	_	40	2.38 59	YO.
	5ta 568 + 84.74 to 5ta Area & (924.04) (762.44/ 7	9/0) + [RQ]	76)			<i>*</i>
	(781.44/763.94)	t 166.2	2- (0.0	(7453)		·	3
	(66.22/250)2 (1.50)	(9.37	5) [(3)	(1/9)	2		
	+ 3(32.78)(781.37/78	15 <i>3.94)</i> 7	166.20	?+(0.017453))		y
	(66.22 250) ² (17.18)	(9.375)) 6 (1/2) (3+2)(1/9)=	= 66	1.13 Sq.	16.
	Area of Curb Removal	/ : <i> </i>	' 78) (78.	3.27/163.94	1)		
	+ [66.22 + (0.0]74	53) (66	22/250	9)		. 11 -	VI
	† [66.22 † (0.0174) (18.83)(9.375)]} (8. 5†a.578 † 75.00 †o.5†a.5	1/2) (1/9			= 7.	11 59	Yd.
ŷ.	5ta. 578 + 75.00 to 5ta. 5	080+50 000+50	5.18	150)		•	
	57a.5/8+ 15.00 to 57a.5 Area of 5houlder: 5/6 (183.78/250) ² (1/2) (1/2)(3+8)(1/9)	15.187	1)/10/14	00] 75]Z			
	(103.10/23U) (1/2) (1/2)(34R)(1/a)	(1.307	4) (3 .	J5 =	= //:	2.46 59.	1/1
						,	
							,

PAVEMENT COMPUTATIONS 1150 30

Intersection of U.S.P. 30 and Dixon Road~ U.S.R. 30 ~ (Ramps)~ U.S.R. 224 Interchange ~ Ramp "D"~ (Gont.)~ Median Crossover ~ Sta. 249 + 55.44 to Sta. 257 + 86.94 ~ (Cont. Shoulders~ (Cont.)~ Pavement~ 5ta. 578+75.00 to Sta. 580+58.78~(Cont)~ 848, Type 1: (1.25)(1/36)(1,054.20) 848, Type 2: (1.50)(1/36)(1,054.20) 407 Tack Coat: (1,054.20)(0.10) Area in Gore not in Curb Removal (140.60) = 35.60 (1/2) (16.51 + 12.25) (1/9) Area in Curb Removal (43.18 + (0.017453) = 43.93 = 224.65 Sq.Yd. 407 Cover Aggregate (1,054.20) (7/2000) Shoulders -Shoulder's Length: 2 (50 + 300.24 + 2 (43.95/360) 17 (2) (58) + (92.10/360) 17 (2)(8)] 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519) = 13.95 =50.39 Sq.Yd. 407 Tack Coat (904.16) (0.044444) 5ta 580 + 58.78 to 5ta 583 + 58.78 407 Cover Aggregate (904.16) (0.001556)-Shoulder Reconditioning Area of Shoulder (300)(8)(1/9) = 266.67 Sq.Yd. Area in Gore not in Curb Removed (300) 617 Shoulder Preparation (904.16)(0.44444)=401.89 = 337.50 59.76. Sta. 583+58.78 (B. Ramp "D") = Sta. 583+58.78 (d. U.S.R. 30)~ Sta. 583+58.78 to Sta. 595+58.78 Area: (1.200)(8)(10) 617 Compacted Aggregate (904.16) (0.046296)= 41.86 Intersection of Westbound U.S.R. 30 and Dixon Road ~ (North Side) 5ta 253 + 38.11 to 5ta 254 + 88.45 Area: (1,200)(8)(1/9) =1,066.67 59.40. Ramp "D" ~ Shoulder Summary ~ Pavement~ Area : 274.83 + 95.03 + 661.13 + 112.46 + 266.67 = 2,476.79 Sq.Yd. + 1,066.67 Area of Gore not in Curb Removal 224.65 +337.50 = 562.15 Sq.Yd. Area of Curb Removal: 7.41+50.39+100.00=157.80 59.40. Area of Concrete Gore Pavement 848, Type 1: (1.25)(1/36)(2,476.79 + 157.80 + 42.38) + (1/2)(1+3)(1/36)(562.15) = 124.18 Cu.\d. 848, Type 2: (1.50)(1/36)(2,476.79 + 157.80 (1/2)(2.25)(1/36)(208.08)+ (1.25)(1/36) 848, Type 2 (1/2) (1.50 + 1.0) (1/36) (139.37 407 Tack Coat (139.37, + 208.08) (0.10) = 111.54 CUYd 407 Tack Coat: (2,476.79 + 562.15)(0.10) = 303.89 Ga/s. 407 Cover Aggregate (139.37+208.08) 407 Cover Aggregate (2,476.79 + 562.15) = 10.64 Tons Shoulders~ Shoulder Reconditioning~ Length 2 (39.44 + 23.39) Sta. 564 + 74.72 to Sta. 567 + 84.74 Area 2 (12.33+29.56) 848, Type | 2 [(29.56) (1.25) (1/36) + (12.33) (1/2) (1.20 + 2.25) (1/36)] 848, Type 2 : 2 [(29.56) (1/2) (1+1.50) (1/36)] 407 Tack Coat (83.78) (0.10) Length of 4' Recorditioning 250-(0.017453) `(753.94/763.94)=307.93 Lin.F.f. Sta 567+8474 to Sta 568+8474 Length of 4' to 2' Transition: (100)(156.94/163.94)=99.08 Lin.Ft. 407 Cover Aggregate (83.78) (7/2000) Shoulder Reconditioning~ 617 Shoulder Preparation: (125.66) - 0.29 Sta. 568 + 84. 74 to Sta. 578 + 75.00 Length of 2' Reconditioning (924.04) (759.94 | 763.94) + [66.22 - (0.017453) (66.22 | 250) 2 (4) (9.375) + (891.26) (783.94 | 763.94) (0.444444) = 55.85 617 Compacted Aggregate (125.66)(0.046296) = 5.82 =1,899.97 Lin. Ft. Intersection of Eastbound U.S.R. 30 and Sta. 578 + 75.00 to Sta. 580 + 58.78 Dixon Road ~ (South Side)~ Length of 2' to 4' Transition: 183.78-(0.017453) Sta. 252 + 56.31 to 5ta. 254 + 03.88 Pavement~ (1/2) (4+10) Pavement -Area I (1/2 (60+12.50) (36.66) - (37.66/360) 11
(60) ²] (2) (1/9) + (12.50) (74.25) (1/9) =
Area 2 (68.75) (147.57) - (98.38/360) 11 (60) ²
- 1/2 (8.75) (59.36) - (70/360) 11 (60) ²
- 1/2 (60) (34.64) - (1/2) (72.46 + 69.28)
(8.75)] (1/9) - 135.53
848, Type I (1.25) (1/36) (135.53) + 1/2 (2.25)
(1/36) (190.76)
848, Type 2: (1/2) (1.50+1.0) (1/36) (135.53) =
407 Tack Coaf: (135.53 + 190.76) (0.10)
107 (over Apprenate: (135.53 + 190.76) = 183.16 Lin.Ft. (9.375) 5ta. 580 + 58.78 to 5ta. 583 + 58.78 Length of 4' Reconditioning = 300.00 Lin.Ft. Sta 583+58.78 to Sta 595+58.78 Length of 4' Reconditioning =1,200.00 Lin.Ft. Ramp "D"~ Shoulder Reconditioning Summary~ Length of 4' Reconditioning: 307.93 + 300 =1,807.93 Lin.Ft. Length of 4' to 2' Transition 99.08+183.16 = 282.24 Lin. Ft. Length of E' Reconditioning 617 Shoulder Preparation (1,807.93) (0.444444) + (282.24)(1/2)(4+2)(1/9) =1,899.97 Lin.Ff. 407 Cover Aggregate (135.53 + 190.76) (7/2000) + (1,899.97) (0.222222) Shoulders~ =1,319.82 59.76 Length 2 (39.44 + 23.39) 617 Compacted Aggregate: (1,807.93)(0.046296) + (282.24)(1/2)(4+2)(3.75)(1/12)(1/27) Area: 2 (12.33 + 29.56) 848, Type 1: 2 ((29.56)(1.25)(1/36) + (12.33)(1/36) (1.20 + 2.25)(1/36) 848, Type 2: 2 ((29.56)(1/2)(1+1.50)(1/36)) + (1,899.97) (0.023148) =137.48 Cu.Yd. U.S.R. 30 ~ At Grade Intersections~ Intersection of U.S.R. 30 and Dixon Road~ 407 Tack Coat (83.70)(0.10) = 838 Median Crossover ~ 407 Cover Aggregate (83.70)(7/2000) Shoulder Reconditioning 5ta. 249 + 55.44 to 5ta. 257 + 86.94 Pavement~ 617 Shoulder Preparation (125.66) (0.44444) = 55.85 Sq. Yo.

=1,054.20 Sq. Yd.

Area from old plans

0.5	5.R. 30	
# do / / / / / / / / / / / / / / / / / /	Intersection of Eastbound U.S.R. 30 and Dix Sta. 252+56.31 to Sta. 254+03.88~(Cont.	ion load~
	Shoulder Reconditioning~	
- 2000 C. Val	617 Compacted Aggrégate: (125.66)(0.046296))= 5.82 G
= 36.60 Cu Yd = 43.93 Cu Yd	Intersection of U.S.R. 30 and S.R. 49~	
= 105 42 62/5	Median Crossover ~ Sta. 278 + 52.19 to Sta. 286+ 94.81 ~	
= 369 Tons	Pavement~	10-100
	Area from old plans 848, Type 1: (1.25)(1/36)(1,054.20)	= 1,054.20 S = 36.60 C
= 904.16 Lin. Ft.	848, Type 2 (1.50) (1/36) (1,054.20)	= 43.93 G
= 13.95 CU.Yd. = 16.74 CU.Yd.	407 Tack Coat (1,054.20)(0.10)	= 105.42 G
= 40.18 Ga/s.	407 Cover Aggregate (1,054.20)(7/2000) Shoulders-	
5)= 1.41 Tons	Length: 2 ((50) + 300.24 + 2 (43.95/360) 11 (2	2) 2016 (
M-401.85 5g. Yd	(58) + (92.10/360) 11 (2)(8)] 848, Type 1: (904.16)(0.015432)	= 904.16 L1 = 13.95 C
76)= 41.86 Cu.Yd.	848, Type 2: (904.16)(0.0/85/9)	= 16.74 Cd
	407 Tack Coat (904.16) (0.044444)	= 40.18 G
	407 Cover Aggregate (904.16)(0.001556)	= 1.41 72
	Shoulder Reconditioning ~ 617 Shoulder Preparation (904.16)	
360) = 139.37 Sq. Vol	(0.444444) 617 Compacted Aggregate: (904.16)(0.04629	= 401.85 S G= 11.86 C
?	Intersection of Westbound U.S.P. 30 and	60/0~ (Nor
	Sta. 281 + 88.57 to Sta. 283+19.51~	J.K. 49 (1101
= 208.08 So.Yd.	Pavement~	~
= 208.08 Sq. Yd.	Area : [1/2 (12.50 + 75)(41.46) - (33.56 360) 11 (75) ² + /2 (40 + 12.50)(29.05) - (46.56).	(360)
=	11 (40)2 + (12.50) (60.43)] (1/9)	= 1/4.93 5
= 34.75 Gals.	II (40)2 + (12.50) (60.43)] (1/9) Area 2 (1/9) ((68.75) (130.94) - (1/0/360) II (40) - [/2 (28.75) (78.99) + (3) (20) + (9.30)) *
7.20 7.	(20) - (11.89) (1/2) (24.23 + 56.73) - (70/36	
= 1.22 Tons	11 (75)2 + 1/2 (6.25)(17.17)]-114.93	= 86.5 5
= 125,66 Lin.Ft. = 83,78 5q.Yd.	848, Type 1 (1.25)(1/36)(1/4.93) + 1/2 (2.25 + 0) (1/36)(186.51)	= 9.82 G
= 83.78 5q. Yd.	848, Type 2: (1/2) (1.50 + 1.0) (1/36) (1/4.93)	= 3.99 C
= 323 Cu.Yd.	407 Tack Coat (114.93 + 186.51)(0.10) 407 Cover Aggregate (114.93 + 186.51)(7/200	= 30.14 G
= 205 Cu Yd	Shoulder5~	9- 7.00 70
= 8.38 Gals. = 0.29 Ton	Length: 43.93 + 25.62 + 32.5/ + 20.2/	= 122.27 [11
	Area 10.70 + 24.44 + 13.48 + 32.87 848, Type (32.87 + 24.44)(1.25)(1/36) + (10.70	= 8!.49 59 ?
= 5585 So Yd	848, Type 1: (32.87 + 24.44)(1.25)(1/36) + (10.70 + 13.48)(1/2)(1.20 + 2.25)(1/36) 848, Type 2: (32.87 + 24.44)(1/2)(1.0 + 1.50)(1/3	= 3.15 (2)
= 55.85 Sq. Yd. 6) = 5.82 Cu. Yd.	407 Tack Coat: (81.49)(0.10)	16)= 1.99 CO = 8.15 G
	407 Cover Aggregate: (81.49)(7/2000)	= 0.29 78
	Shoulder Reconditioning~	1)=61316
	617 Shoulder Preparation (122.27) (0.44444) 617 Compacted Aggregate (122.27) 0.04629	b)= 5.66 Cd
- 125 C2 C2 V/	Intersection of Eastbound U.S.R.30 and	
= 135.53 Sq.Yd.	5ta 182 + 32.49 to 5ta 183 + 63.43 ~	
	Pavement ~ Area [1/2 (75 + 12.50) (41.46) - (33.56/360) 7	7
= 190.76 Sq.Yd.	(75) < + 1/2 (40 + 12.50) (29.05) - (46.56).	<i>360)</i>
	11 (40)2+(12.50)(60.43)7(1/9) Area 2: (1/9)[(68.75)(130.94)-(1/0/360)11 (40)	= 114.93 Sq
= 10.67 Cu.Yd. = 4.71 Cu.Yd.	-	
= 32.63 62/5.	- (11.89)(24.23+56.73)(1/2) - (70/360) 11 (75) ² + 1/2 (6.25)(17.17)] - 1/4.93	= 186.71 Sq
Tana	848, Type (1.25)(]/36)(]/4.93) + 1/2 (2.25)	
= 1.14 Tons	(1/36) (186.71) 848, Type 2: (1/2) (1.50+1.0)(1/36) (1/4.93)	= 9.83 (1) = 3.99 (1)
= 125.66 Lin Ft. = 83.78 Sq. Yd.	407 Tack Coat (1/4.93 + 186.71)(0.10)	= 30.16 6
- 02.10 39.10. 12)	407 Cover Aggregate (114.93+186.71) (7/2000)	= 1.06 70
= 323 CU.Yd	Shoulders~	
= 205 Gu.Yd. = 838 Ga/s.	Length: 32.51 + 20.21 + 43.93 + 25.62 Area: 10.70 + 24.44 + 13.48 + 32.87	= 122.27 U = 81.49 Sq
= 029 Ton	848, Type 1: (32.87 + 24.44) (1.25) (1/36) + (13.4	— 01.43 Sq 18
19 = 55.85 Sq.Yd.	848, Type 1 · (32.87 + 24.44)(1.25)(1/36)+(13.4 + 10.70)(1/2)(1.20 + 2.25)(1/36)	= 3.15 00
7 J.		Ā

A	Computations Shecked By	5 OHIO		65
	Initials & B Date 12-20-83	VAN WERT COUN	ITY	, v
	Final Revisions By Initials Date	VAN-30-4.05		
ison Road~	Intersection of Eastbook	und U.S.R.30 and	15.R.49~	
	Sta 282 + 32.49 to Sta	283+63.43~ (Co	nt.)~	*
	Shoulders~			f
() = 5.82 Cu. Vd.	848, Type 2: (32.87 + 2	4.44](1/2)(1.0 + 1.50)	- 100 C	V~/
	(1/36) 407 Tack Coat: (81.49)	(0,0)	= 1.99 Cu. = 8.15 Gal	
	407 Cover Aggregate	· (81.49)(7/2000)	= 0.29 Tol	
	Shoulder Recondition	ino~	0.20 707	
= 1,054.20 Sq.Yd	6/7 Shoulder Prepare	ition (122.27)(0.4444	(44)=54.34 Sq.	Yd.
= 36.60 Cu. Yd.	617 Compacted Aggreg	rate: (122.27)(0.04623	96)= 5.66 Cu.,	Yd.
- 43.93 Cu. Yd.	Intersection of U.S.R. 3		*	
= 105.42 62/5.	Median Crossover~	O and Comen Koe		•
) = 3.69 Tons	Sta 368 + 91,19 to Sta. 3	377+28.8/~		ν
6) · · · · · · · · · · · · · · · · · · ·	Pavement~			
2) = 904.16 Lin.Ft.	Area from old plans) (= 1,1/2.44 Sq.	<u> </u>
= 13.95 Cu.Yd.	848, Type 1: (1.25)(1/30	6)(1,112.44)	= 38.63 Cu.	
= 16.74 Cu. Yd.	848, Type 2: (1.50) (1/36	1) (1,11C.44)	= 46.35 CU.,	YO.
= 40.18 Gals.	407 Tack Coat. (1,112.	44) (0.10) = (1.112.44)(7/200)	= 24 Ga 0) = 3.89 Tol	75. 75
= 1.41 Tons	Shoulders~_			
	Length: 2 50 + 300.24	1 + 2 (43.95/360) 11	7	· · · · · · · · · · · · · · · · · · ·
	(2)(58) + (92.10)	360) 11 (2)(8)	=904.16 Lin.	
= 401.85 Sq.\d.	848, Type 1 (904.16)(0.	0/5432)	= 13.95 CU.	
76)= 41.86 Cu.Yd.	848, Type 2 (904.16) (0.	(0/85/9)	= 16.74 CU.	
.S.R.49~(North Side)~	407 Tack Coat (904.	[0](0.044444) - (0016\00066	= 40.18 621	5 .
	407 Cover Aggregate Shoulder Reconditionin	= (904.16)(0.00195 m~	00)=1.41 101	15
•	617 Shoulder, Prepair	ration (904 16)(1444	111)=10/85 80	Y/
(200)	6/7 Compacted Aggres	gate: (904.16)(0.0467.	96)= 41.86 (1)	Yd.
(360) = 1/1 03 50 Vd		· · · · · · · · · · · · · · · · · · ·		, .
= 1/4.93 Sq. Yd.	Intersection of Westb	0010 0.3.K. 30 3110	7	•
) %	Colwell Road ~ (North 5 5ta 372 + 22.58 to 5ta	10e/~ - 273 + 63.50 ~		•
(O)	Pavement~			
= 186.51 59.76	Area 1 ((1/2) (40 + 12.50))(29.05)-(46.58/38	<i>50</i>)	
7	71 (40)2+(12.50)	(60.41) + (1/2)(12.50+	(75)	
= 9.82 Cu. Yd.	(4) 46) - (33.56) Area 2: (1/9) [(68.75) (130	360) 7 (75) 2] (1/9) = 1/4.87 Sq.	Yd.
= 3.99 Cu.Yd.	Area 2 (1/9)[(68.75)(130	0.92) -(1/0/360) 1/(40)2	•
= 30.14 Gals	-(10/360) 1/ (73 - 1/2 (28.75)(7)	25)2 + (1/2)(6.25)(17.1 8.00) + (20)(12.20)-((1/2)	
10)= 1.06 Tons	(24.06 + 56.73)	3.99) + (20) (12.39) - (11.89)] = 114.87	c) = 86.73 Sq.	W/
= 122.27 Lin.Ft	848, Type 1 (1.25)(1/36)	(11487) + (1/2)(225)	100.15 Sq.	<i>,</i>
= 81.49 59.76	(1/36) (186.7	3)	= 9.82 CU.	Yd.
7	848, Type 2 (1/2) (1.50	+ 1.0) (1/36) (114.87)		
= 3.15 CU.Yd.	407 Tack Coat (1/4.	87 + [86.73] (0.10)	= 30.16 Ga	5.
8)= 1.99 CUYd.	407 Cover Aggregat	e: (1/4.87+ 186.73)		
= 8.5 = 63.5	66-11/10-	(7/2000)	= 1.06 70/	75
= 0.29 Ton	Shoulders~	12024 2562	=122.27 Lin	
1)=54.34 59.46	Length: 32.5] + 20.2] + 4 Area: 10.70 + 24.44 + 13	<u> </u>	= 81.49 Sq.	
b)= 5.66 a. Vd.	848, Type /: (32.87 + 2	4.44) (1.25) (1/36)	01.40 09.	<i>,</i>
•	848, Type 1: (32.87 + 20 + (13.48 + 1	(0.70) (1/2) (1.20 + 2.23	5)	
d 5.R. 49~(South Side)	(1/30)		- 3./5 00.	Y6/
	848, Type 2 (32.87 + 2	P4.44)(1/2)(1.0 + 1.50))	
	(1/36)		= 1.99 CU.	Y
7 (360) - 111.02 5-14	407 Tack Coat (81.49)	(0.10)	= 8.15 Ga	and the second s
= 114.93 59.76	407 Cover Aggregate	8: (81.49)(1/2000)	= 0.29 Tol	7
= 114.93 Sq. Yd.	Shoulder Reconditionin 617 Shoulder Prepai	79~ 		٠
))	017 SHOULDEL PLEPAL	(0.444444)	= 54.34 59.	Y/
= 186 71 60 Vd	617 Compacted Ago	reaate: (122.27)	04.07.09.1	<i>,</i> 0.
= 186.71 Sq. Yd.	617 Compacted Agg.	(0.046296)	r) = 5.66 Cu.,	Vd.
= 9.83 Cu. Yd.				÷
= 3.99 Cu. Yd.	Intersection of East b Colwell Road ~ (South .	100110 U.S.K. 30 3/1 Side)~		
= 30.16 Gals.	5ta. 372+ 66.50 to 5ta	2 373+97 12~		
	Pavement~ _	2. C/C C/. 7C		
= 1.06 Tons	Area 1: (1/9)[(1/2)(12.50)	+75) (41.46) - (33.561)	(360)	*
_ 100 00 1: 11	11,(10) (116)(16	2.30 1401 (29.03)	17 4100	1/-/
= 122.27 Lin.Ft.	-(46.58/360) 1 1-0-2:(1/0) [68.25](13			<i>YO</i> .
= 81.49 Sq. Vd.	Area 2 : (1/9) (68.75) (13		10)E	
= 3.15 CU.Yd.		[[7]	(12)	• **
J. 7 J. 10. 7 V.	(24.06 + 56.73)		= 186.73 Sq.	<i>Y6.</i>
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FHWA REGION

STATE

5 OHIO

PROJECT

Computations By

Initials M. S. Date/2/20/83

PAVEMENT COMPUTATIONS

U.S.R.30 ~ At Grade Intersections ~ (Cont.)	(South Side)
Intersection of Eastbound U.S.R. 30 and Control	CONELL KOOD~
5ta. 372 + 66.50 to 5ta. 373 + 97.42 ~ (Cont.)	s)
848, Type 1 : (1.25)(1/36)(1/4.87) + (1/2)(2.25)(1/36)	= 9.82 Cu.Yd.
848, Type 2: (1/2) (1.50 +1) (1/36) (114.87)	= 3.99 Cu.Yd.
407 Tack Coat: (114.87 + 186.73) (0.10)	= 30.16 Gals.
407 Cover Aggregate: (114.87 + 186.73)(7/2000)	()= 1.00 10NS
Shoulders~	= 122.27 Lin. Ft.
Length: 32.51 + 20.21 + 43.93 + 25.62 Area: 10.70 + 24.44 + 13.48 + 32.87	= 81.49 Sq. Yd.
848, Type : (32.87 + 24.44)(1.25)(1/36)	•
+ (13.48 + 10.70)(1/2)(1.20 + 2.25)(1/3	3)= 3.15 Cu. Yd.
848, Type 2: (32.87 + 24.44)(1/2)(1.0+1.50)(1/36	= 8.15 Gals.
407 Tack Coat : (81.49)(0.10) 407 Cover Aggregate : (81.49)(7/2000)	= 0.29 Ton
Shoulder Reconditioning -	
6/7 Shoulder Preparation (122.27)(0.4444	14)=54.34 Sq.Yd
6/7 Compacted Aggregate: (122.27) (0.046296)	560 C V/
(0.046296)	= 5.06 60.70.
Intersection of U.S.R.30 and Convoy Ro	200 ~
Median Crossover~	
5ta.407 + 25.69 to 5ta. 415+54.57~	
Pavement~ Area from old plans	=1,054.20 Sq.Yd.
848, Type 1: (1.25) (1/36) (1,054.20)	= 36.60 Cu.Yd.
848, Type 2: (1.50)(1/36)(1,054.20)	= 43.93 Cu.Yd.
407 Tack Coat: (1,054.20) (0.10)	= 105.42 Gals.
407 Cover Aggregate (1,054.20) (7/2000)	= 3.69 Tons
Shoulders~)
Length : 2 (50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8)]	= 904.16 Lin.Ff.
Area (904.16)(4)(1/9)	= 401.85 Sq.Yd.
848, Type 1 (1.25)(1/36)(401.85)	= 13.95 Cu. Yd.
848, Type 2 (1.50)(1/36)(401.85)	= 16.74 Cu. Yd.
407 Tack Coat (401.85) (0.10)	= 40.19 Gals.
407 Cover Aggregate: (401.85)(7/2000) Shoulder Reconditioning~	= 1.41 Tons
617 Shoulder Preparation (904.16)(0.4444	44)=401.85 Sq. Yd.
617 Compacted Aggregate (904.16)	
(0.046296)	= 41.86 Cu.Yd.
Intersection of Westbound U.S.R. 30 and	d Convoy Road~
Sta. 411+07.13 to Sta. 412+56.12~	(North Side)~
Parement~	200)
Area I : 2 (1/9) (1/2) (12.50 + 60) (36.66) - (37.66/36 17 (60) 2] + (12.50) (75.67) (1/9)	= 137.50 Sq. Yd.
Area 2: [(68 75)(148.99) - (70/360) 11 (60)2-(1)	-757.50 59.70. (2)
Area 2 (68.75)(148.99) - (70/360) 11 (60)2-(1) (8.75 + 20.52) (56.38) - 1/2 (7.47)(20.5	
-1/2 (8.75) (59.36) - (108.88/360) 17 (60	Jej .
(1/9) - 131.50	= 641.10 39.40.
848, Type I : (1.25)(1/36)(137.50) + 1/2 (2.25)(1/3 (247.16)	6) = 12.50 Cu. Yd.
848, Type 2: (1/2) (1.50 + 1.0) (1/36) (137.50)	= 4.77 CU.Yd.
407 Tack Coat: (137.50 + 247.16)(0.10)	= 38.47 Gals.
407 Cover Aggregate (137.50 + 247.16) (7/2000)	
	= 1.35 Tons
Shoulders~ (= 125.66 Lin.Ff.
Length : 2 (39.44 + 23.39) Area : 2 (29.56 + 12.33)	= 83.78 Sq. Yd.
848, Type 1: 2 ((29.56)(1.25)(1/36) + (12.33)(1/3	(2)
848, Type 1 · 2 ((29.56)(1.25)(1/36) + (12.33)(1/36) (1.20 + 2.25)(1/36)	= 3.23 Cu. Yd.
848, Type 2 · 2 (29.56)(2)(.0+ .50)(36	Y= 2.05 Cu. Yd.
407 Tack Coat (83.78) (0.10)	= 8.38 Gals. = 0.29 Ton
407 Cover Aggregate (83.78)(7/2000) Shoulder Reconditioning~	0,00 /01/
6/7 Shoulder Preparation (125.66) (0.444.444	1) = 55.85 Sq. Yd.
617 Compacted Aggregate: (125.66)(0.046296	s)= 5.82 Cu.Yd.
Intersection of Eastbound U.S.R. 30 and	
5ta.410+ 24.14 to 5ta.411+ 73.13~ (5out).	
Pavement~	
Area · 2 (1/9)(1/2)(12.50 + 60)(36.66) - (37.66/36 11 (60) ²] + (12.50) (75.67)(1/9)	- 127 ED EN 14
11 (60) 7 (12.50) (13.61) (1/9)	=131.30 39.40.

Intersection of Eastbound U.S.R. 30 and G Sta. 410 + 24.14 to Sta. 411 + 73.13 ~ (Conf	CONVOY KOAO~ L)~
Parement~	
Area 2 (1/9) (68.75) (148.99) - 1/2 (8.75) (59.36	
- (108.88 360) 71 (60) 2 - (70 360) 71	
(60)2 - (1/2)(60 + 60.35)(0.96) - (1/2)	
(14 69 + 7 73) (19 12) - 1/2 (14 69)(37.20	
- (41.55/360) (11) (40) 2] - 137.50	= 222.30 Sq. Yd.
848, Type / (1.25)(1/36)(131.50)+(1/2)(2.25)	1172 C.V.
(1/36)(222.30) 010 Time 2 (1/2)(150+10)(1/20)(127.50)	= 11.72 Cu.Yd. = 4.77 Cu.Yd.
848, Type 2 · (2)(.50+ .0)(36)(37.50) 407 Tack Coat · (37.50+222.30)(0.10)	= 35.98 Ga/s.
407 Cover Aggregate: (137.50 + 222.30)	
(7/2000)	= 1.26 Tons
Shoulders~	
Length : 2 (39.44 + 23.39)	= 125.66 Lin.Ft.
Area: 2 (29.56 + 12.33)	= 83 78 Sq. Vd.
848, Type 1 · 2 ((29.56)(1.25)(1/36) + (12.33)(1/2	
$\frac{(1.20 + 2.25)(1/36)}{(1.20 + 2.25)(1/36)}$	= 3.23 CU.Yd.
848, Type 2: 2 ((29.56)(1/2)(1.50+1.0)(1/36)	= 2.05 Cu. Yd.
407 Tack Coat: (83.78)(0.10) 407 Cover Aggregate: (83.78)(7/2000)	= 8.38 Gals. = 0.29 Ton
Shoulder Reconditioning~	
6/7 Shoulder Preparation : (125.66)(0.444444	1)= 55.85 So.Yd.
617 Shoulder Preparation: (125.66)(0.444444 617 Compacted Aggregate: (125.66)(0.04629	16)= 5.82 Cu.Yd.
Intersection of U.S.R. 30 and Richey Road	
Median Crossover~	4 VA 8 VA 5 VA 10 VA
Sta. 493 + 91.95 to Sta. 502 + 29.53~	
Pavement~	
Area from old plans	= 1,112,44 Sq Yd
848, Type 1: (1.25) (1/36) (1,1/2.44)	= 38.63 Cu Yd.
848, Type 2: (1.50) (1/36) (1,112.44)	= 46.35 CU.Yd.
407 Tack Coat: (1112.44) (0.10) 407 Cover Aggregate: (1,112.44) (7/2000)	= 24 Gals. = 3.89 Tons
401 (.0VE) 4001 E001E (1.116.44) (1.12000)	
Shoulders	
Shoulders ~	
Shoulders ~ Length : 2 [50 + 300.24 + (2) (43.95 360) (2	
Shoulders ~ Length : 2 [50 + 300.24 + (2) (43.95 360) (2 11 (58) + (92.10 360) (2) (11) (8) Area: (904.16) (4) (1/9)	
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Length: 2 (50 + 300.24 + (2) (43.95/360) (2) If (58) + (92.10/360) (2) (IT) (8) Area: (904.16) (4) (1/9) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Cost: (401.85) (0.10) 407 Cover Aggregate: (401.85) (7/2000) Shoulder Reconditioning 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.R. 30 and Sta. 497 + 21.93 to Sta. 498 + 53.90~ (No. Pavement~ Area 1: (1/9) [1/2 (40 + 12.50) (29.05) - (46.57/360) If (40) 2 + 1/2 (15.4)(250) (41.46) - (33.96) If (75) 2 + (12.50) (61.46)] Area 2: (1/9) [68.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (70/360) IT (75) 2 + 1/2 (6.25) (77.17) - 1/6.34 848, Type 1: (1.25) (1/36) (1/6.34) + (1/2) (2.25) 848, Type 2: (1/2) (1.0 + 1.50) (1/36) (1/6.34) 407 Tack Cost: (1/6.34 + 194.80) (0.10) 407 Cover Aggregate: (1/6.34 + 194.80)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons 4)= 401.85 Sq.Yd. Pichey Road~ -116.34 Sq.Yd. = 194.80 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd.
Length: 2 [50 + 300.24 + (2) (43.95/360) (2) 11 (58) + (92.10/360) (2) (11) (8) Area: (904.16) (4) (1/9) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Cost: (401.85) (0.10) 407 Cover Aggregate: (401.85) (7/2000) Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.P. 30 and Sta. 497 + 21.93 to Sta. 498 + 53.90~ (No. Pavement~ Area 1: (1/9) [1/2 (40 + 12.50) (29.05) - (46.57/36) 11 (40)2 + 1/2 (75+12.50) (41.46) - (33.56) 11 (75)2 + (12.50) (61.46)] Area 2: (1/9) [68.75) (131.97) - (110/360) 11 (40) -1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (70/360) 17 (75)2 + 1/2 (6.25) (17.77) - 1/6.34 848, Type 1: (1.25) (1/36) (1/6.34) + (1/2) (2.25) (1/36) (194.80) 848, Type 2: (1/2) (1.0 + 1.50) (1/36) (1/6.34) 407 Tack Cost: (1/6.34 + 194.80) (0.10) 407 Cover Aggregate: (1/6.34 + 194.80) (7/2000) Shoulders~	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. (6)= 41.86 Cu.Yd. Bichey Boad~ rth Side)~ (9) = 194.80 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals.
Length: 2 [50 + 300.24 + (2)(43.95/360)(2) If (58) + (92.10/360)(2)(II)(8) Area: (904.16)(4)(19) 848, Type 1: (1.25)(1/36)(401.85) 848, Type 2: (1.50)(1/36)(401.85) 407 Tack Coat: (401.85)(0.10) 407 Cover Aggregate: (401.85)(7/2000) Shoulder Record: Hioning 617 Shoulder Preparation: (904.16)(0.44444 617 Compacted Aggregate: (904.16)(0.04629) Intersection of Westbound U.S.R. 30 and Sta. 497 + 21.93 to Sta. 498 + 53.90~ (No. Pavement ~ Area 1: (1/9)[1/2 (40 + 12.50)(29.05) - (46.57/36) If (30)2 + 1/2 (75+12.50)(41.46)-(33.96) If (76)2 + (12.50)(61.46)] Area 2: (1/9)[68.75)(131.97) - (110/360) IT (40) -1/2 (28.75)(78.99) + (12.16)(20) - 1/2 (23.41 + 56.73)(11.53) - (70/360) IT (75)2 + 1/2 (6.25)(17.77) - 1/6.34 848, Type 1: (1.25)(1/36)(1/6.34) + (1/2)(2.25) (1/36)(194.80) 848, Type 2: (1/2)(1.0 + 1.50)(1/36)(1/6.34) 407 Tack Coat: (1/6.34 + 194.80)(0.10) 407 Cover Aggregate: (1/6.34 + 194.80) Shoulders Length: 43.93 + 25.62 + 32.5/ + 20.2/	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. (5)= 41.86 Cu.Yd. (2) Richey Road~ (4) Side)~ (5) 360) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 128.27 Lin.Ff.
Length: 2 (50 + 300. 24 + (2) (43.95/360) (2) (11 (58) + (92.10/360) (2) (11) (8) Area: (904.16) (4) (19) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Coaf: (401.85) (0.10) 407 Cover Aggregate: (401.85) (1/2000) Shoulder Record Honing— 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.R. 30 and Sta. 497 + 21.93 to Sta. 498 + 53.90~ (No. Pavement— Area 1: (1/9) [1/2 (40 + 12.50) (29.05) - (46.57/36) 11 (40) 2 + 1/2 (75 + 12.50) (41.46) - (33.96) 11 (16) 2 + (12.50) (61.46)] Area 2: (1/9) [68.75) (131.97) - (10/360) 11 (40) - 1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (10/360) 11 (40) - 1/2 (6.25) (1/36) (1/6.34) + (1/2) (2.25) (1/36) (194.80) 848, Type 1: (1.25) (1/36) (1/36) (1/36) (1/36) Shoulders— Length: 43.93 + 25.62 + 32.5/ + 20.2/ Area: 32.87 + 13.48 + 24.44 + 10.70 848, Type 1: (32.87 + 24.44) (1.25) (1/36)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons 4)= 401.85 Sq.Yd. Bichey Load~ -4h Side.)~ 0) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 1.09 Tons
Length: 2 (50 + 300. 24 + (2) (43.95/360) (2) (11 (58) + (92.10/360) (2) (11) (8) Area: (904.16) (4) (19) 848, Type 2: (1.50) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Coat: (401.85) (0.10) 407 Cover Aggregate: (401.85) (1/2000) Shoulder Reconditioning— 617 Shoulder Preparation: (904.16) (0.44444. 617 Compacted Aggregate: (904.16) (0.04629. Intersection of Westbound U.S.P. 30 and Sta. 491 + 21.93 to Sta. 498 + 53.90~ (No. Pavement— Area 1: (1/9) [1/2 (40 + 12.50) (29.05) - (46.57/360) 11 (40) 2 + 1/2 (15+12.50) (41.46) - (33.96) 11 (75) 2 + (12.50) (61.46)] Area 2: (1/9) [68.75) (13.97) - (110/360) 11 (40) -1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (10/360) 11 (40) -1/2 (6.25) (1/36) (1/6.34) + (1/2) (2.25) 848, Type 1: (1.25) (1/36) (1/36) (1/36) (1/6.34) 407 Tack Coat: (1/6.34 + 194.80) (0.10) 407 Cover Aggregate: (1/6.34 + 194.80) Shoulders— Length: 43.93 + 25.62 + 32.5/ + 20.2/ Area: 32.87 + 13.48 + 24.44 + 10.70 848, Type 1: (32.87 + 24.44) (1.25) (1/36) + (13.48 + 10.70) (1/2) (1.20 + 2.25)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. Bichey Road~ rth Side)~ (9) = 194.80 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 128.27 Lin.Ff. = 81.49 Sq.Yd.
Length: 2 [50 + 300.24 + (2) (43.95/360) (2) Area: (904.16) (4) (19) Atea: (150) (1/36) (401.85) Atea: (150) (1/36) (401.85) Atea: (150) (1/36) (401.85) Atea: (201.85) (2000) Shoulder Agaregate: (401.85) (7/2000) Shoulder Reconditioning 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.P. 30 and Sta 497+21.93 to Sta 498+53.90~ (No. Pavement~ Area: (1/9) [1/2 (40+12.50) (29.05) - (46.57/366) If (40)2+1/2 (75+12.50) (41.46) -(33.96) If (76)2+(12.50) (61.46) Area: 2: (1/9) [68.75) (131.97) - (110/360) IT (40) -1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41+56.73) (11.53) - (70/360) IT (40) (15)2+1/2 (6.25) (17.17) - 1/6.34 848, Type: 1: (12.5) (1/36) (1/6.34) + (1/2) (2.25) 848, Type: 2: (1/2) (10+1.50) (1/36) (1/6.34) 407 Tack Coat: (1/6.34+194.80) Shoulders~ Length: 43.93+25.62+32.51+20.21 Area: 32.87+13.48+24.44+10.70 848, Type: 1: (32.87+24.44) (1.25) (1/36) + (13.48+10.70) (1/2) (1.20+2.25) (1/36)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. (5)= 41.86 Cu.Yd. (2) Richey Road~ (4) Side)~ (5) 360) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 128.27 Lin.Ff.
Length: 2 [50 + 300. 24 + (2) (43.95/360) (2) Area: (904.16) (4) (19) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Cost: (401.85) (0.10) 407 Cover Aggregate: (401.85) (7/2000) Shoulder Reconditioning 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.R. 30 and Sta 497 + 21.93 to Sta 498 + 53.90~ (No. Pavement~ Area 1: (1/9) [1/2 (40+12.50) (29.05) - (46.57/36) If (40)2 + 1/2 (75+12.50) (41.46) - (33.96) If (76)2 + (25.0) (61.46) Area 2: (1/9) [68.75) (131.97) - (110/360) IT (40) - 1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (70/360) IT (40) (75)2 + 1/2 (6.25) (17.17) - 1/6.34 848, Type 1: (12.5) (1/36) (1/6.34) + (1/2) (2.25) 848, Type 2: (1/2) (1.0+1.50) (1/36) (1/6.34) 407 Tack Cost: (1/6.34 + 194.80) (0.10) 407 Cover Aggregate: (1/6.34 + 194.80) Shoulders~ Length: 43.93 + 25.62 + 32.5/ + 20.2/ Area: 32.87 + 13.48 + 24.44 + 10.70 848, Type 1: (32.87 + 24.44) (1/2) (1.20+2.25) (1/36) 848, Type 2: (32.87 + 24.44) (1/2) (1.20+2.25)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. Bichey Road~ -141 Side)~ (5)360) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 1.09 Tons = 122.27 Lin.Ff. = 81.49 Sq.Yd. = 3.15 Cu.Yd.
Length: 2 (50 + 300. 24 + (2) (43.95/360) (2) Area: (904.16) (4) (19) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Cost: (401.85) (0.10) 407 Cover Aggregate: (401.85) (7/2000) Shoulder Reconstitioning 617 Shoulder Preparation: (904.16) (0.44444 617 Campacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.R. 30 and Sta. 497 + 21.93 to Sta. 498 + 53.90~ (No. Pavement ~ Area 1: (1/9) [1/2 (40 + 12.50) (29.05) - (46.57/36.9) Area 2: (1/9) [68.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 36.73) (13.91) - (110/360) 11 (40) - 1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 36.73) (11.53) - (70/360) 11 (40) - 1/2 (18.75) (1/36) (1/6.34) + (1/2) (2.25) (1/36) (1/36) (1/36) (1/36) (1/36) (1/36) 848, Type 2: (1/2) (1.0 + 1.50) (1/36) (1/36) Shoulders ~ Length: 43.93 + 25.62 + 32.51 + 20.21 Area: 32.87 + 13.48 + 24.44 + 10.70 848, Type 1: (32.87 + 24.44) (1/2) (1/20 + 2.25) (1/36) 848, Type 2: (32.87 + 24.44) (1/2) (1/20 + 2.25) (1/36) 848, Type 2: (32.87 + 24.44) (1/2) (1/20 + 2.25) (1/36)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. Bichey Road~ Fl. 5ide)~ (5)360) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 1.09 Tons = 122.27 Lin.Ff. = 81.49 Sq.Yd. = 1.99 Cu.Yd. = 1.99 Cu.Yd.
Length: 2 [50 + 300. 24 + (2) (43.95/360) (2) Area: (904.16) (4) (19) 848, Type 1: (1.25) (1/36) (401.85) 848, Type 2: (1.50) (1/36) (401.85) 407 Tack Cost: (401.85) (0.10) 407 Cover Aggregate: (401.85) (7/2000) Shoulder Reconditioning 617 Shoulder Preparation: (904.16) (0.44444 617 Compacted Aggregate: (904.16) (0.04629) Intersection of Westbound U.S.R. 30 and Sta 497 + 21.93 to Sta 498 + 53.90~ (No. Pavement~ Area 1: (1/9) [1/2 (40+12.50) (29.05) - (46.57/36) If (40)2 + 1/2 (75+12.50) (41.46) - (33.96) If (76)2 + (25.0) (61.46) Area 2: (1/9) [68.75) (131.97) - (110/360) IT (40) - 1/2 (28.75) (78.99) + (12.16) (20) - 1/2 (23.41 + 56.73) (11.53) - (70/360) IT (40) (75)2 + 1/2 (6.25) (17.17) - 1/6.34 848, Type 1: (12.5) (1/36) (1/6.34) + (1/2) (2.25) 848, Type 2: (1/2) (1.0+1.50) (1/36) (1/6.34) 407 Tack Cost: (1/6.34 + 194.80) (0.10) 407 Cover Aggregate: (1/6.34 + 194.80) Shoulders~ Length: 43.93 + 25.62 + 32.5/ + 20.2/ Area: 32.87 + 13.48 + 24.44 + 10.70 848, Type 1: (32.87 + 24.44) (1/2) (1.20+2.25) (1/36) 848, Type 2: (32.87 + 24.44) (1/2) (1.20+2.25)	= 904.16 Lin.Ff. = 401.85 Sq.Yd. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.19 Gals. = 1.41 Tons (4)= 401.85 Sq.Yd. Bichey Road~ -141 Side)~ (5)360) = 116.34 Sq.Yd. = 10.13 Cu.Yd. = 4.04 Cu.Yd. = 31.11 Gals. = 1.09 Tons = 122.27 Lin.Ff. = 81.49 Sq.Yd. = 3.15 Cu.Yd.

Intersection of Westbound U.S.R. 30 and R. Sta. 497 + 21.93 to Sta. 498 + 53.90 ~ (Cont	Pichey Road ~
Sta. 497 + 21.93 to Sta. 498 + 53.90 ~ (Cont	<i>4)~</i>
Shoulder Deconditioning	
617 Shoulder Preparation: (122.27) (0.44444) 617 Compacted Aggregated: (122.27))=54.34 Sq.Yd.
6/7 Compacted Aggregated: (122.27)	
(0.046296)	= 5.66 Cu/d
Intersection of Eastbound U.S.R.30 and I	Cichey Koao~
Sta. 497 + 66.88 to Sta. 498 + 96.78~	(South Side)~
Pavement~	- \
Area : (9)[(2)(75+ 2.50)(41.46) - (33.56 36	
71 (75)2+ (1/2) (40+12.50) (29.05)	-
- (46.57/360) TI (40)2 + (12.50) (59.39)	/= 113.47 Sq.Yd.
Area 2 · (1/9) [(68.75)(129.90) - (70/360) 77 (75)	2
+ (1/2) (6.25) (17.17) - (1/2) (56.73 + 24.62	?)
(9.87) - (1/2) (78.99) (28.75) + (12.60)(20	
-(10/360) 71 (40)27-113.47	= 189.57 Sq. Vd.
848, Type 1: (1.25) (1/36) (113.47) + (1/2) (2.25)	
(1/36) (189.57)	= 9.86 Cu.Yd.
848, Type 2: (1/2)(1.0+1.50)(1/36)(1/3.47)	= 3.94 Cu. Yd.
107 150/ (004, (11217 + 1805) (115.41)	= 30.30 Ga/s.
407 Tack Coat: (113.47 + 189.57)(0.10)	- JO. JO Od/3.
407 Cover Aggregate (113.47+189.57)	- 106 Tana
(7/2000)	= 1.06 Tons
Shoulders~	100 00 1
Length: 43.93 + 25.62 + 32.5/ + 20.2/	=122.27 Lin.Ft.
Area: 32.87 + 13.48 + 24.44 + 10.70	= 81.49 Sq.Yd.
848, Type 1: (32.87 + 24.44) (1.25) (1/36)	
+ (13.48 + 10.70) (1/2) (1.20 + 2.25)	No.
(1/36)	= 3.15 CUYd
848, Type 2: (32.87 + 24.44)(1/2)(1.0+1.50)	
(1/36)	= 1.99 Cu.Yd.
407 Tack Goat (81.49)(0.10)	= 8.15 Gals
407 Cover Aggregate (81.49)(7/2000)	= 0.29 Ton
Shoulder Reconditioning~	
Shoulder Reconditioning~ 617 Shoulder Preparation (122.27)	
(0.444444)	= 54.34 Sq. Yd.
6/7 Compacted Approvate (122 27)	J4. J4 J9. 10.
617 Compacted Aggregate (122.27)	· ·
617 Compacted Aggregate (122.27) (0.046296)	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296)	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans	= 5.66 Cu.Yd
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans	= 5.66 Cu.Yd.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60)	= 5.66 Cu.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 Cu.Yd.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60)	= 5.66 Cu.Yd. ad~ = 1,102.60 59.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60)	= 5.66 Cu.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Ga/s.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000)	= 5.66 Cu.Yd. ad~ = 1,102.60 59.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd.
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ 5ta.552 + 13.93 to 5ta.560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1.102.60)(7/2000) Shoulders~	= 5.66 Cu.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Ga/s. = 3.86 Tons
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta 552+13.93 to Sta 560+50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60) 407 Tack Coat: (1,102.60)(0.10) Shoulders~ Length: 2/50+300.24+2 (43.95/360) 11 (2)	= 5.66 CU.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ 5ta.552 + 13.93 to 5ta.560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8)	= 5.66 Cu.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.R. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60) 407 Tack Coat: (1.102.60)(0.10) 407 Cover Aggregate: (1.102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type : (904.16)(0.015432)	= 5.66 Cu.Yd. ad~ = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 Cu.Yd.
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 17 (2) (58) + (92.10 360) 17 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519)	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd.
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ 5ta 552 + 13.93 to 5ta 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60) 407 Tack Coat: (1.102.60)(0.10) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.044444)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta 552+13.93 to Sta 560+50.07 ~ Pavement~ Area from old plans 848, Type 1 (1.25)(1/36)(1.102.60) 848, Type 2 (1.50)(1/36)(1.102.60) 407 Tack Coat (1,102.60)(0.10) 407 Cover Aggregate (1,102.60)(7/2000) Shoulders~ Length 2 [50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.001556)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals.
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ 5ta.552 + 13.93 to 5ta.560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04566 Shoulder Reconditioning~	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 6) = 1.41 Tons
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.4444)	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.4444)	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ 5ta.552+13.93 to Sta.560+50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1.102.60) 848, Type 2: (1.50)(1/36)(1.102.60) 407 Tack Coat: (1.102.60)(0.10) 5houlders~ Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.001556) Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.04629)	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin. Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5) = 1.41 Tons 4) = 40!.85 Sq.Yd. 6) = 4!.86 CU.Yd.
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta 552+13.93 to Sta 560+50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.4444 617 Compacted Aggregate: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons (4)=40.85 Sq.Yd. biberty Road~
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta 552+13.93 to Sta 560+50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.044444) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.4444 617 Compacted Aggregate: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and 5ta. 555+40.79 to Sta. 556+80.31~	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons (4)=40.85 Sq.Yd. biberty Road~
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta. 552+13.93 to Sta. 560+50.07 ~ Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(1/2000) Shoulders— Length: 2 [50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.016519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556) Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.4444) 617 Compacted Aggregate: (904.16)(0.046296) Intersection of Westbound U.S.P. 30 and Sta. 555+40.79 to Sta. 556+80.31 ~ Pavement—	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin. Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons (4)=40.85 Sq.Yd. berty Road~ (North Side)~
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta. 552+13.93 to Sta. 560+50.07 ~ Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(1/2000) Shoulders— Length: 2 [50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.0185/9) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.04629 Intersection of Westbound U.S.P. 30 and Sta. 555+40.79 to Sta. 556+80.31 ~ Pavement— Area 1: (1/9)(1/12)(40+12.50)(29.05)-(46.57)	= 5.66 CU.Yd. = 1,102.60 Sq.Yd. = 38.28 CU.Yd. = 45.94 CU.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin. Ff. = 13.95 CU.Yd. = 16.74 CU.Yd. = 40.18 Gals. 5)= 1.41 Tons (4)=40.85 Sq.Yd. berty Road~ (North Side)~
617 Compacted Aggregate (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate (1,102.60)(7/2000) Shoulders~ Length: 2[50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and Sta. 555 + 40.79 to Sta. 556 + 80.31 ~ Pavement ~ Area 1: (19)(1/2)(40 + 12.50)(29.05)-(46.57) 11 (10)2 + (1/2)(12.50) + 75)(41.46)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ft. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 6) = 1.41 Tons (4) = 40.185 Sq.Yd. (berty Road~ (North Side)~
617 Compacted Aggregate: (122.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta. 552 + 13.93 to Sta. 560 + 50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1.102.60)(7/2000) Shoulders~ Length: 2/50 + 300.24 + 2 (43.95/360) 11 (2) (58) + (92.10/360) 11 (2)(6) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.016519) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and Sta. 555 + 40.79 to Sta. 556 + 80.31 ~ Pavement~ Area 1: (1/9)(1/2)(40 + 12.50)(29.05)-(46.57) 1 (40) ² + (1/2)(12.50 + 75)(41.46) - (33.56/360) 11 (75) ² + (12.50)(60.00)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 10.26 Gals. = 3.86 Tons) = 904.16 Lin.Ft. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 5)= 1.41 Tons 44)=401.85 Sq.Yd. berty Road~ (North Side)~ 2/360) 2/360)
617 Compacted Aggregate: ((12.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover~ Sta 552+13.93 to Sta 560+50.07 ~ Pavement~ Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders~ Length: 2 [50+300.24+2 (43.95 360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.044444) 407 Cover Aggregate: (904.16)(0.001566 Shoulder Reconditioning~ 617 Shoulder Preparation: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and Sta. 555+49.79 to Sta. 556+80.31~ Pavement~ Area 1: (1/9)(1/2)(40+12.50)(29.05)-(46.57) 11 (40)2+(1/2)(12.50+75)(41.46) - (33.56/360) 11 (75)2+(12.50)(60.0 Area 2: (1/9)(68.75)(130.52)-(107.57/360)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 10.26 Gals. = 10.26 Gals. = 3.86 Tons = 16.74 Cu.Yd. = 40.18 Gals. = 40.18 Gals. (14) Tons (14) = 40.186 Cu.Yd. (15) = 41.86 Cu.Yd.
617 Compacted Aggregate: ((12.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta 552 + 13.93 to Sta 560 + 50.07 ~ Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2 [50 + 300.24 + 2 (43.95/360) 11 (2) (58) + (92.10/360) 11 (2)(6) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.016519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04566 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.04629 Intersection of Westbound U.S.P. 30 and Sta. 555 + 49.79 to Sta. 556 + 80.31 ~ Pavement— Area 1: (1/9)(1/2)(40 + 12.50)(29.05) - (46.57) 11 (40) ² + (1/2)(28.75)(90.80) + (14.38) Area 2: (1/9)(68.75)(130.52) - (07.57/360) 11 (40) ² - (1/2)(28.75)(90.80) + (14.38)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 10.26 Gals. = 10.26 Gals. = 3.86 Tons = 16.74 Cu.Yd. = 40.18 Gals. = 40.18 Gals. (14) Tons (14) = 40.186 Cu.Yd. (15) = 41.86 Cu.Yd.
617 Compacted Aggregate: ((12.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta 552 + 13.93 to 5ta 560 + 50.07 ~ Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(6) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 107 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.04629 Intersection of Westbound U.S.P.30 and 5ta.555 + 40.79 to 5ta.556 + 80.31 ~ Pavement— Area 1: (1/9)(1/2)(40+12.50)(29.05)-(46.57) 1 (40)2 + (1/2)(12.50+75)(41.46) - (33.56 360) 11 (75)2 + (12.50)(60.01) Area 2: (1/9)(68.75)(130.52)-(107.57/360) 1 (40)2 - (1/2)(28.75)(90.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (14.36)(19.57) - (1/2)(12.57)(19.80) + (1/2)(12.	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin. Ff. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 5) = 1.41 Tons 4) = 40.85 Sq.Yd. 1) = 41.86 Cu.Yd. Liberty Road~ (North Side)~ (360) 2) = 114.33 Sq.Yd.
617 Compacted Aggregate ([22.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta 552+13.93 to Sta 560+50.07— Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2/50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(6) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.018519) 407 Tack Coat: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.04629 Intersection of Westbound U.S.R. 30 and Sta 555+40.79 to Sta 556+80.31— Pavement— Area 1: (1/9)((1/2)(40+12.50)(29.05)-(46.57) 1 (40) ² +(1/2)(12.50+75)(4/46) - (33.56/360) 11 (75) ² +(12.50)(60.04) Area 2: (1/9)(68.75)(30.52)-(107.57/360) 1 (40) ² -(1/2)(35.24+54.29)(6.03) - (72.43/360) 11 (75) ² +(1/2)(6.25)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 10.26 Gals. = 3.86 Tons) = 904.16 Lin.Ff. = 13.95 Cu.Yd. = 40.18 Gals. 5)= 1.41 Tons (4)=401.85 Sq.Yd. (5)=41.86 Cu.Yd. (North Side)~ (1360))=14.33 Sq.Yd.
617 Compacted Aggregate: (12.21) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta 552+13.93 to Sta 560+50.07— Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1/02.60) 848, Type 2: (1.50)(1/36)(1/02.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2[50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015519) 407 Tack Cost: (904.16)(0.046444) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.44646) 617 Compacted Aggregate: (904.16)(0.44646) 617 Compacted Aggregate: (904.16)(0.44646) Intersection of Westbound U.S.P. 30 and Sta 555+40.79 to Sta 556+80.31— Pavement— Area 1: (1/9)[(1/2)(40+12.50)(29.05)-(46.57) 11 (40)2+(1/2)(250+75)(41.46) - (33.56)360) 11 (75)2+(1/250)(600) Area 2: (1/9)[(68.75)(30.52)-(17.57/360) 11 (40)2-(1/2)(35.24+54.29)(6.03) - (72.43/360) 17 (75)2+(1/2)(6.25) (19.71)-114.33	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 10.26 Gals. = 3.86 Tons) = 904.16 Lin. Ff. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 5) = 41.86 Cu.Yd. (North Side)~ (North Side)~ (1360))= 114.33 Sq.Yd.
617 Compacted Aggregate: (12.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— 5ta 552 + 13.93 to 5ta 560 + 50.07 — Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and 5ta 555 + 49.79 to 5ta 556 + 80.31 ~ Pavement— Area 1: (1/9)(1/2)(40 + 1/2.50)(29.05) - (46.57) 1 (40) ² - (1/2)(250 + 75)(4.46) - (33.56 360) 11 (75) ² + (1/26)(6.03) - (72.43 360) 11 (75) ² + (1/2)(6.25) (19.57) - (1/2)(35.24 + 54.29)(6.03) - (72.43 360) 11 (75) ² + (1/2)(6.25) (19.74) - 1/4.33 848, Type 1: (1.25)(1/36)(1/4.33) + (1/2)(2.25)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ft. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 6) = 1.41 Tons (A) = 401.85 Sq.Yd. (North Side)~ (North Side)~ (1360)) = 14.33 Sq.Yd.
617 Compacted Aggregate: (12.27) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— 5ta 552 + 13.93 to 5ta 560 + 50.07 — Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1,102.60) 848, Type 2: (1.50)(1/36)(1,102.60) 407 Tack Coat: (1,102.60)(0.10) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2 [50 + 300.24 + 2 (43.95 360) 11 (2) (58) + (92.10 360) 11 (2)(8) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.04444) 407 Cover Aggregate: (904.16)(0.04556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.046296 Intersection of Westbound U.S.P. 30 and 5ta 555 + 49.79 to 5ta 556 + 80.31 ~ Pavement— Area 1: (1/9)(1/2)(40 + 1/2.50)(29.05) - (46.57) 1 (40) ² - (1/2)(250 + 75)(4.46) - (33.56 360) 11 (75) ² + (1/26)(6.03) - (72.43 360) 11 (75) ² + (1/2)(6.25) (19.57) - (1/2)(35.24 + 54.29)(6.03) - (72.43 360) 11 (75) ² + (1/2)(6.25) (19.74) - 1/4.33 848, Type 1: (1.25)(1/36)(1/4.33) + (1/2)(2.25)	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ft. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 5) = 41.86 Cu.Yd. (North Side)~ (North Side)~ (1360)) = 14.33 Sq.Yd. 2) = 183.74 Sq.Yd. 2) = 9.71 Cu.Yd.
617 Compacted Aggregate: (12.21) (0.046296) Intersection of U.S.P. 30 and Liberty Ro Median Crossover— Sta 552+13.93 to Sta 560+50.07— Pavement— Area from old plans 848, Type 1: (1.25)(1/36)(1/02.60) 848, Type 2: (1.50)(1/36)(1/02.60) 407 Cover Aggregate: (1,102.60)(7/2000) Shoulders— Length: 2[50+300.24+2 (43.95/360) 11 (2) (58)+(92.10/360) 11 (2)(8) 848, Type 1: (904.16)(0.015432) 848, Type 2: (904.16)(0.015432) 848, Type 2: (904.16)(0.015519) 407 Tack Cost: (904.16)(0.046444) 407 Cover Aggregate: (904.16)(0.001556 Shoulder Reconditioning— 617 Shoulder Preparation: (904.16)(0.44646) 617 Compacted Aggregate: (904.16)(0.44646) 617 Compacted Aggregate: (904.16)(0.44646) Intersection of Westbound U.S.P. 30 and Sta 555+40.79 to Sta 556+80.31— Pavement— Area 1: (1/9)[(1/2)(40+12.50)(29.05)-(46.57) 11 (40)2+(1/2)(250+75)(41.46) - (33.56)360) 11 (75)2+(1/250)(600) Area 2: (1/9)[(68.75)(30.52)-(17.57/360) 11 (40)2-(1/2)(35.24+54.29)(6.03) - (72.43/360) 17 (75)2+(1/2)(6.25) (19.71)-114.33	= 5.66 Cu.Yd. = 1,102.60 Sq.Yd. = 38.28 Cu.Yd. = 45.94 Cu.Yd. = 110.26 Gals. = 3.86 Tons) = 904.16 Lin.Ft. = 13.95 Cu.Yd. = 16.74 Cu.Yd. = 40.18 Gals. 6) = 1.41 Tons (A) = 401.85 Sq.Yd. (North Side)~ (North Side)~ (1360)) = 14.33 Sq.Yd.

Computations By Initials M. Date 12/20/83 Computations Checked By Initials Date 12-20-83

FHWA REGION (20) (65) STATE PROJECT OHIO

VAN WERT COUNTY VAN-30-4.05

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Intersection of Westbound U.S.R.30 and Liberty Road~
Sta.555+49.79 to Sta.556+80.31~(Cont.)~
   Pavement~
    407 Tack Coat : (114.33 + 183.74)(0.10)
407 Cover Aggregate : (114.33 + 183.74)
(7/2000)
                                                                                              = 29.81 6a/5.
                                                                                              = 1.04 Tons
   Shoulders~
                                                                                              =122.27 Lin.Ft.
   Length: 43.93 + 25.62 + 32.51 + 20.21
  Area: 32.87 + 13.48 + 24.44 + 10.70
848, Type 1: (32.87 + 24.44)(1.25)(1/36)
+ (13.48 + 10.70)(1/2)(1.20 + 2.25)
                                                                                              = 81.49 Sq. Vd.
                                                                                              - 3.15 Cu.Yd.
      848, Type 2: (32.87 + 24.44)(1/2)(1.0+1.50)
                                                                                              - 1.99 Cu.Yd.
- 8.15. Gals.
     407 Tack Coat: (81.49)(0.10)
  407 Cover Aggregate: (81.49)(7/2000) = 0.29 Ton
Shoulder Reconditioning~
6/7 Shoulder Preparation: (122.27)(0.444444) = 54.34 Sq.Yd.
6/7 Compacted Aggregate: (122.27)(0.046296) = 5.66 Cu.Yd.
 Intersection of Eastbound U.S.R.30 and Liberty Road~
Sta.555+82.73 to Sta.557+13.19~ (South Side)
                                                                                                   (South Side)~
   Pavement~
 Pavement ~

Area |: (|9)(||2)(|2.50 + 75)(4|.46) - (33.56|360)

II (75)<sup>2</sup> + (||2)(|2.50 + 40)(29.05) - (46.57|360)

II (40)<sup>2</sup> + (12.50)(59.95)] = ||4.

Area 2: (||9)((68.75)(|30.46) - (72.43|360)II(15)<sup>2</sup>

+ (||2)(6.25)(|9.74) - (||2)(54.29 + 35.24)

(4.30) - (||2)(28.75)(90.80) + (|9.48)(20)

- (107.57|360)II (40)<sup>2</sup>] - ||4.24 = 204.88, Type ||: (1.25)(||36)(|14.24) + (||2)(|2.25)

(1|36)(204.13) = ||0.36|

848, Type 2: (||2)(|.50 + |.0)(||36)(|14.24) = 3.6

407 Tack Coaf: (||4.24 + 204.|3)(0.|0) = 31.6

407 Cover Aporeoafe: (||4.24 + 204.|3)
                                                                                               = 114.24 Sq.Yd.
                                                                                              = 204.13 Sq.Yd.
                                                                                               = 10.35 CU.Yd.
                                                                                               = 3.97 Cu.Yd.
                                                                                               = 31.84 Gals.
      407 Cover Aggregate: (114.24 + 204.13)
(7/2000)
                                                                                               = 1.11 Tons
   Shoulders~
   Length: 43.93 + 25.62 + 32.5/+ 20.2/
                                                                                               = 122.27 Lin.Ff.
    Area: 32.87 + 13.48 + 24.44 + 10.70
                                                                                               = 81.49 Sq.Yd.
  407 Cover Aggregate (81.49) (7/2000)
Shoulder Reconditioning~
617 Shoulder Preparation (122.27)
                                                                                               = 0.29 Ton
                                                                     (122.27)
(0.444444) = 54.34 Sq.Yd.
(122.27)
(0.046296) = 5.66 Cu.Yd.
```

PAVEMENT REPAIR COMPUTATIONS

	ES.	TIMA	TED	PAVE	EMEN	IT REI	PAIR	TABL	E	A CONTRACTOR OF THE STATE OF TH		
						202	:	305		60	05	Special
Location	Cane	Estimated No. of Removals	Length	WIGHH		Pavement Removed		15" Portland Cement Concrete Base (See Prop. Note)		Aggregate Orain as per plan	Langitudinal Aggregate Orain, as	Pavement
			Ft.	Fł.		Sq. Yd.		5q. Yd.		Lin.Ft.	Lin. Ft.	Un.F.F.
						'			SHALL IN THE SHALL			
Eastbound U.S.R. 30	2							·				
	Driving	738	10	12		9,840.00		9,840.00			8,118.00	17,712.00
	Passing	259	10	12		3,453,33		3,453.33		9,324.00		6216.00
	Ramps	106	10	16		1,884.44	THE PROPERTY OF THE PROPERTY O	1,884.44			1,166.00	3,392.00
	Speed Change Lane	86	10	12	AND THE PROPERTY OF THE PROPER	1,146.67	and the second second	1,146.67	ESOURIMMANACERIC CHIERCESTERIONALMA A COGUSTIONALMA	нажиния уческий принципальной	***************************************	8,064.00
		<u>ucummacom agos es materias do desentrans do de</u>		en e		Section of the sectio	ina ataung misikan terdapan akanggaran menasakan ang menasak di ataun ang menasak di ataun dan dan dan dan dan		NATION OF THE PROPERTY OF THE	CHARLES AND CHARLES AND A		and photograms are not a supplication of the s
Sub-Total		andrewa serim records response també par provincia de la constitució de la constitució de la constitució de la			n jaman kanan k	16,324.44	nacastantes curàmayo acomos como sucas sucas seron	16,324.44	COCCESSION OF THE PROPERTY OF	9,324.00	97284,00	Z9384.00
Westbound U.S.R.30	7									National Angle Committee of the Committe	COCONORISMOS PROCESSAN ANNA PARAMILANTA COCONORISMOS PROCESSAS COCO	# A
	Driving	712	10	12	ANNE ANNA RECEIVE ANNA REPORT OF THE PROPERTY	9,493.33		9,493.33	ACCUSED TO SECURITION OF THE SECURITIES OF THE SECURITION OF THE S	NO MARIANTAN AN (ARE LOOK PORTY CACH (CA.A. OCCUSIO COLÁMBACA (CACHACA)	7,832.00	17088.00
	Passing	285	10	12		3,800,00		3,800.00		10,260.00	ennañaja e e e e e e e e e e e e e e e e e e	6,840.00
	Ramps	77	10	16		1,368.89	nnusconnessenuvuosinnenvuvustonnintonnihtotoisidesitti	1,368.89	***************************************	MCCHAURO, (The providence and Color Color of the Anna Have August	847.00	2,464.00
	Speed Change Lane	***************************************	10	12		773.33	A CONTRACTOR OF THE CONTRACTOR	773.33		ANNAMINOONIA SARAA AAAA AA		1,392.00
		7		· ·						CORPORATIVE AND DESIGNATION AND ASSESSMENT A		, , , , , , , , , , , , , , , , , , ,
Sub-Total						15,435.55		15,435.55	Mountain participation of the property of the participation of the parti	19,260.00	8,679.00	27, 784.00
			Lateria no company de la compa		THE STATE OF THE S		MATERIAL PROPERTY AND ACCUMPANCE OF THE PROPERTY OF THE PROPER	0105000	E-EUGETTANTINE MANAGEMENT TO COLOR TO SE	DOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	120/24	F011000
Totale to St	Perts 238 21		I .		1	2/75000		3175000		14081100	1796300	11/1/1/1/V)

			· · · · · · · · · · · · · · · · · · ·
		Per Denzir Factora~ (Cont)~	Market William
PAVEMENT REPAIR		Per Repair Factors ~ (Cont) ~ tem Special ~ Pavement Sawing: (2)(12)	-21' / Feb
		Item Special ~ Pavement Sawing: (c)(12)	=24 Lin. Ft. per
Estimated Number of Removals~			Speed Change
Eastbound~			Lane Joint
Driving Lane: 461 × 1.6	= 738 Repairs		(12' Width)
Passing Lane 162 × 1.6	= 259 Repairs	Length of Longitudinal Aggregate Orains as per plan	
0 (16' Width) 66 × 16		20,00= 0/00	= // [*]
Ramps~ (16 Width): 66 × 1.6	= 106 Repairs	as per plan	<i>- //</i>
Speed Change Lanes~ (12' Widith) 54×16	= 86 Kepairs		igen in the second of the seco
Westbound~			
Driving Lane: 445×1.6	= 712 Repairs		
Passing Lane: 178 x 1.6	= 285 Repairs	Length of Aggregate Drain as per plan (2 drains per repair)	
Ramp5~ (16' Width): 48x 1.6	= 77 Repairs	(2 drains per remain)	= 18' per drain
Con of Change Langua (12' Wolff) 26 × 16		(C OI SINS PCI TEPSIT)	(inside)
Speed Change Lanes~ (12' Width): 36 × 1.6	= 58 Repairs		An . C
Per Repair Factors~	(2.22.22.20.1/.		Mainline
202 Pavement Removed: (10)(12)(1/9)	= 13.33333399. Yd. per	Note: Aggregate Drains as per plan and	
	Mainline	Congitudinal Aggregate Drains as	
	Repair	per plan for Ramps (12 Width) are	
202 Pavement Removed: (10)(16)(1/9)	=17.777778 Sq. Vd. per	included in the Computations for	
	Ramo Repair	Driving Lanes.	
	(161 bladh)		e e e e e e e e e e e e e e e e e e e
	(10 N/U//)	Eacthounda	± 2 a ′ , , , , , , , , , , , , , , , , , ,
202 Pavement Removed: (10)(12)(1/9)	=13.333333 5g. Vol. per	Eastbound ~	
	Speed Change	Driving Lane~	1 001
	Lane Repair	- Percent of Drivino Lane Superelevated	= 0 /0
	(12' Width)	Percent of Driving Lane with existing	
305 Portland Cement Concrete Rase	(Percent of Driving Lane with existing pipe underdrains: Percent of repair locations to be drained by Longitudinal Aggregate Drains, As Per Plan Quantities~	= 100%
305 Portland Cement Concrete Base (10)(12)(1/9)	=13.333333 Sq. Vd. per	Percent of repair locations to be	
(10)(16)(1/3)		drained by longitudinal Appreciate	And the second s
	Mainline	Oraine to Per Plan	=100%
	Repair	Quantition of	
305 Portland Cement Concrete Base		400,7777	
305 Portland Cement Concrete Base (10)(16)(1/9)	=17.777778 Sq. Vd. per	202 Pavement Removed : (138) (13.333333)	- 9.840.00 Sq. Yd.
	Ramp Repair	- 305 ~ 115" Portland Cement Concrete	
	(16" WIGHT)	Base (138) (13,333333)	- 9,840.00 Sq. Yd.
305 Portland Cement Concrete Pavement	+ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	605~Longitudinal Aggregate Drain as	
(10)(12)(1/0)	= 13.333333 Sq. Yd. per	per plan : (138) (11) (1.00)	= 8,118.00 Lin. Ft. = 0 Lin. Ft.
(10)(12)(1/9)			= 0 lin Ff
	Speed Change	Hom Gracial & Payament Gaying: (728)(21) = 17 7/200/in Et
	lane Repair	- Item Special ~ Pavement Sawing : (138) (24)	-17, 112.00 [11.17.
	(12' Width)	Passing Lane~	1 00
tem Special ~ Pavement Sawing: (2)(12)	= 24 Lin. Ft. per	Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains	7= U/ ₆
	Mainline Repair	Percent of Passing Lane with existing	
Item Special ~ Pavement Sawing: (2)(16)	= 32 Lin. Ft. per	pipe underdrains	- 0%
in the same of the	Ramp Repair	": Percent of repair locations to be drained by Aggregate Drains as per p	
	(161 Wind fb)	drained by Agaregate Drains as per I	plan=100%
	(16' Width)		

Eastbound ~ (Cont.)~	
Passing Lane ~ (Cont.)~	
Quantities~	
202 Pavement Removed: (259)(13.3333333)	- 3,453.335q.Vd
20c / aver/10/1/ Kerroveo · (C)9/(3.33333)	3,433,3339.10.
305 ~ 15" Port/and Cement	
Concrete Base;	
(259) (13.333333) 605 ~ Longitudinal Aggregate Orains, as per plan	e)=3.4533350/d
605 a langitudinal Apprenate Drains as per	-
000 ~ Corigiroulial Aggregate Crallis, as per	0 1:- 51
plan 605 ~ Aggregate Drains, as per plan: (2 drain per location): (259) (2) (16) [tem Special ~ Payement Sawing: (259) (24) Ramps ~ (16' Width) ~ Percent of rame payement with existing	- O CINIT
605 ~ Aggregate Orains, as per plan (2 drain	75
per location) · (259) (2) (18)	= 9.32400\in Ft
Ham English Payament Gaying (250)(21)	= 621600/inff
(C) (C) (C) (C) (C)	Ψ, Ε/W. Ο Ο Ε///./ /.
Kamps~ (10 Wioths)~	
Percent of ramp pavement with existing	
	- 100%
Percent of repair locations to be drained by Longitudinal Aggregate Drains as per	700 /0
Percent of repair locations to be orallied	
by Longitudinal Aggregate Urains as per	*
plan	= 100%
Quantities~	
202 0-1-1709	= 1,884.44 Sq.Yd.
202 Pavement Removed: (100) (17.777778)	-1,004.44 59.10.
305~15" Portland Cement Concrete Base:	
(106)(17.777778)	= 1,884.44 Sq.Yd.
605 ~ Langitudinal Marsanta Drain on and	
605 ~ Longitudinal Aggregate Orain, as per	Illiante d
plán (00) (11) (1.00)	= 1,166.00Lin.Ft
	= 3,392.00Lin.Ft.
Item Special ~ Pavement Sawing (106) (32) Speed Change Lane ~ (12' Width) ~ Quantities ~	√
Describing Care (16 MO)11)	9.
Quantities~	
202 Pavement Removed (86) (13.333333)	= 1,146.675970.
305~ 15" Portland Cement Concrete Base:	
(8/1)(12 22222)	= 1,146.67 Sq.Yd.
(86) (13.3333333)	-1,140.01 Sq.10.
Drainage Quantities included with Mainline	Calculations
Item Special ~ Pavement Sawing (86)(24)	=2,064.00Lin.ff.
77 cm 95 co 1 61 7 ar cm 1 coming (0 s) (0 n)	9, 23, 23, 27, 11, 7,
	A contract
Westbound~	
Oriving Lane~	
Percent of Driving Lane Superelevated	= 0%
Parant of Priving Land with existing sing	
Percent of Driving Lane Superelevated Percent of Driving Lane with existing pipe underdrains	inad
and the same and t	
underdrains , , ,	= 100 %
: Percent of repair locations to be drained	= 100 %
: Percent of repair locations to be drained by Longitudinal Apprenate Orains As Per	= 100 %
:: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Pea	= 100 %
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan	= 100 % d = 100 %
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~	d = 100%
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~	d = 100%
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~	d = 100%
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Bas	d = 100% = 9,493.3359761 e:
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Bas (712) (13.333333)	d = 100%
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Bas (712) (13.333333)	d = 100% = 9,493,335q.\d e: = 9,493.335q.\d
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: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (7/2) (13.3333333) 305 ~ 15" Portland Cement Concrete Base (7/2) (13.333333) 605 ~ Longitudinal Aggregate Drain, as per plan: (7/2)(11)(1.00)	= 100% = 9,493,3359.16! e: = 9,493,3359.16! = 7,832.00Lin.Ft. = 0 Lin.Ft.
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (7/2) (13.3333333) 305 ~ 15" Portland Cement Concrete Base (7/2) (13.333333) 605 ~ Longitudinal Aggregate Drain, as per plan: (7/2)(11)(1.00)	= 100% = 9,493,3359.16! e: = 9,493,3359.16! = 7,832.00Lin.Ft. = 0 Lin.Ft.
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: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (712) (13.3333333) 305 ~ 15" Portland Cement Concrete Base (712) (13.3333333) 605 ~ Longitudinal Aggregate Orain, as per plan: (712)(11)(1.00) 605 ~ Aggregate Orain, as per plan Item Special ~ Pavement Sawing: (712)(24) Passing Lane ~	= 100% = 9,493.33 59.76! e: = 9,493.33 59.76! = 7,832.00 Lin.Ft. = 0 Lin.Ft. = 17,088.00 Lin.Ft.
: Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (712) (13.3333333) 305 ~ 15" Portland Cement Concrete Base (712) (13.3333333) 605 ~ Longitudinal Aggregate Orain, as per plan: (712)(11)(1.00) 605 ~ Aggregate Orain, as per plan Item Special ~ Pavement Sawing: (712)(24) Passing Lane ~	= 100% = 9,493,3359.16! e: = 9,493,3359.16! = 7,832.00Lin.Ft. = 0 Lin.Ft.
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Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Pair Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Base (712) (13.3333333) 605 ~ Longitudinal Aggregate Drain, as perplan (712)(11)(1.00) 605 ~ Aggregate Drain, as perplan Item Special ~ Pavement Sawing (712)(24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (285)(13.333333) 305 ~ 15" Portland Cement Concrete Base; (285) (13.333333) 605 ~ Longitudinal Aggregate Drains, as perplan 606 ~ Aggregate Drains, as perplan ~ (2 drained per location): (285)(2)(18) Item Special ~ Pavement Sawing: (285)(24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piperson.	= 100% = 9,493.33 Sq. \d. e: = 9,493.33 Sq. \d. = 7,832.00 Lin. Ft. = 0 Lin. Ft. = 17,088.00 Lin. Ft. = 0% = 100% = 3800.00 Sq. \d. = 3800.00 Sq. \d. = 10,260.00 Lin. Ft. = 6,840.00 Lin. Ft.
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Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Pair Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Base (712) (13.3333333) 605 ~ Longitudinal Aggregate Drain, as perplan (712)(11)(1.00) 605 ~ Aggregate Drain, as perplan Item Special ~ Pavement Sawing (712)(24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (285)(13.333333) 305 ~ 15" Portland Cement Concrete Base; (285) (13.333333) 605 ~ Longitudinal Aggregate Drains, as perplan 606 ~ Aggregate Drains, as perplan ~ (2 drained per location): (285)(2)(18) Item Special ~ Pavement Sawing: (285)(24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piperson.	= 100% = 9,493.33 Sq. \d. e: = 9,493.33 Sq. \d. = 7,832.00 Lin. Ft. = 0 Lin. Ft. = 17,088.00 Lin. Ft. = 0% = 100% = 3800.00 Sq. \d. = 3800.00 Sq. \d. = 10,260.00 Lin. Ft. = 6,840.00 Lin. Ft.
Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Pair Plan Quantities ~ 202 Pavement Removed (712) (13.333333) 305 ~ 15" Portland Cement Concrete Base (712) (13.3333333) 605 ~ Longitudinal Aggregate Drain, as perplan (712)(11)(1.00) 605 ~ Aggregate Drain, as perplan Item Special ~ Pavement Sawing (712)(24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (285)(13.333333) 305 ~ 15" Portland Cement Concrete Base; (285) (13.333333) 605 ~ Longitudinal Aggregate Drains, as perplan 606 ~ Aggregate Drains, as perplan ~ (2 drained per location): (285)(2)(18) Item Special ~ Pavement Sawing: (285)(24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piperson.	= 100% = 9,493.33 Sq. \d. e: = 9,493.33 Sq. \d. = 7,832.00 Lin. Ft. = 0 Lin. Ft. = 17,088.00 Lin. Ft. = 0% = 100% = 3800.00 Sq. \d. = 3800.00 Sq. \d. = 10,260.00 Lin. Ft. = 6,840.00 Lin. Ft.
Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Pelan Quantities ~ 202 Pavement Removed (7/2) (13.333333) 305 ~ 15" Partland Cement Concrete Base (7/2) (13.333333) 605 ~ Longitudinal Aggregate Orain, as perplan (7/2) (10) (100) 605 ~ Aggregate Orain, as perplan Item Special ~ Pavement Sawing (7/2) (24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (285) (13.333333) 305 ~ 15" Portland Cement Concrete Base; (285) (13.3333333) 605 ~ Longitudinal Aggregate Orains, as perplan 605 ~ Pagregate Orains, as perplan 605 ~ Pagregate Orains, as perplan 605 ~ Aggregate Orains, as perplan 605 ~ Pagregate Orains, as perplan 605 ~ Pagregate Orains for Bavement Sawing: (285)(24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piper Underdrains Percent of repair locations to be drained by Longitudinal Aggregate Orains, as perplan,	= 100% = 9,493.33 Sq. \d. e: = 9,493.33 Sq. \d. = 7,832.00 Lin. Ft. = 0 Lin. Ft. = 17,088.00 Lin. Ft. = 0% = 100% = 3800.00 Sq. \d. = 3800.00 Sq. \d. = 10,260.00 Lin. Ft. = 6,840.00 Lin. Ft.
c. Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.33.33.33) 305 ~ 15" Portland Cement Concrete Base (712) (1) (10) 605 ~ Longitudinal Aggregate Drain, as per plan: (712) (1) (10) 605 ~ Aggregate Drain, as per plan Item Special ~ Pavement Sawing (712) (24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains : Percent of pepair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed: (285) (13.33.33.33) 305 ~ 15" Portland Cement Concrete Base; (285) (13.33.33.33) 605 ~ Longitudinal Aggregate Orains, as per plan 605 ~ Aggregate Orains, as per plan ~ (2 day per location): (285) (2) (18) Item Special ~ Pavement Sawing: (285) (24) Ramps ~ (16" Width) ~ Percent of ramp pavement with existing pip underdrains Percent of repair locations to be drained by Longitudinal Aggregate Orains, as per plan Quantities ~	= 100% = 9,493.33 59.16! e: = 9,493.33 59.16! = 7,832.00Lin.Ft. = 17,088.00Lin.Ft. = 0% = 100% = 3800.0059.16! = 3800.0059.16! = 0 Lin.Ft. = 10,260.00Lin.Ft. = 6,840.00Lin.Ft. pe = 100% = 100%
c. Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.33.33.33) 305 ~ 18" Portland Cament Concrete Base (712) (10) (13.33.33.33) 605 ~ Longitudinal Aggregate Drain, as per plan (712) (10) (10) 605 ~ Aggregate Drain, as per plan Item Special ~ Pavement Sawing (712) (24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains : Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (285) (13.33.33.33) 305 ~ 15" Portland Cement Concrete Base; (285) (13.33.33.33) 605 ~ Longitudinal Aggregate Orains, as per plan 605 ~ Aggregate Orains, as per plan 605 ~ Aggregate Orains, as per plan 605 ~ Aggregate Pavement Sawing (285) (24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piper locations Percent of repair locations to be drained by Longitudinal Aggregate Orains, as per plan Quantities ~ 202 Pavement Removed (71) (17.777.778)	= 100% = 9,493.33 Sq. \d. e: = 9,493.33 Sq. \d. = 7,832.00 Lin. Ft. = 0 Lin. Ft. = 17,088.00 Lin. Ft. = 0% = 100% = 3800.00 Sq. \d. = 3800.00 Sq. \d. = 10,260.00 Lin. Ft. = 6,840.00 Lin. Ft.
percent of repair locations to be drained by Longitudinal Aggregate Drains, As Per Plan Quantities ~ 202 Pavement Removed (112) (13.333333) 305 ~ 15" Portland Cement Concrete Base (112) (13.333333) 605 ~ Longitudinal Aggregate Drain, as per plan (712)(11)(100) 605 ~ Aggregate Drain, as per plan Item Special ~ Pavement Sawing (712)(24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains Percent of repair locations to be drained by Aggregate Drains, As Per Plan Quantities ~ 202 Pavement Removed (285)(13.333333) 505 ~ 15" Portland Cement Concrete Base; (285) (13.333333) 605 ~ Longitudinal Aggregate Drains, as per plan ~ (2 drained per location): (235)(2)(18) Item Special ~ Pavement Sawing: (285)(24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piperelections Percent of ramp pavement with existing piperelections Percent of repair locations to be drained by Longitudinal Aggregate Drains, as per plan Quantities ~ 202 Pavement Removed (71)(17.77778) 305 ~ 15" Portland Cement Concrete Base:	= 100% = 9.493.33 Sq. \d. = 9.493.33 Sq. \d. = 7.832.00\in.Ft. = 0 \in.Ft. = 17.088.00\in.Ft. = 0% = 100% = 3800.00\sq. \d. = 3800.00\sq. \d. = 3800.00\sq. \d. = 0 \in.Ft. = 10,260.00\in.Ft. = 6.840.00\in.Ft. = 100% = 100% = 100% = 1,368.89 Sq. \d.
c. Percent of repair locations to be drained by Longitudinal Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (712) (13.33.33.33) 305 ~ 18" Portland Cament Concrete Base (712) (10) (13.33.33.33) 605 ~ Longitudinal Aggregate Drain, as per plan (712) (10) (10) 605 ~ Aggregate Drain, as per plan Item Special ~ Pavement Sawing (712) (24) Passing Lane ~ Percent of Passing Lane Superelevated Percent of Passing Lane with existing pipe underdrains : Percent of repair locations to be drained by Aggregate Orains, As Per Plan Quantities ~ 202 Pavement Removed (285) (13.33.33.33) 305 ~ 15" Portland Cement Concrete Base; (285) (13.33.33.33) 605 ~ Longitudinal Aggregate Orains, as per plan 605 ~ Aggregate Orains, as per plan 605 ~ Aggregate Orains, as per plan 605 ~ Aggregate Pavement Sawing (285) (24) Ramps ~ (16' Width) ~ Percent of ramp pavement with existing piper locations Percent of repair locations to be drained by Longitudinal Aggregate Orains, as per plan Quantities ~ 202 Pavement Removed (71) (17.777.778)	= 100% = 9,493.33 59.16! e: = 9,493.33 59.16! = 7,832.00Lin.Ft. = 17,088.00Lin.Ft. = 0% = 100% = 3800.0059.16! = 3800.0059.16! = 0 Lin.Ft. = 10,260.00Lin.Ft. = 6,840.00Lin.Ft. pe = 100% = 100%

	Representation are common common relationship to the common production of the common production	. •
	Westbound~	
*	Ramps~ (16' Width)~ (Cont.)~ Quantities~ (Cont.)~	
	Quantities ~ (Cont.) ~	
/	605 ~ Longitudinal Aggregate Drain, as per plan : (TT)(II)	
	plan · (TT)(II)	= 847.00 Un.Ft.
•	Item Special ~ Pavement Sawing (77)(32) Speed Change Lane ~ (12' Width) ~	= 2,464.00 Lin. Ft.
/	Speed Change Lane ~ (12' Width) ~	
	Quantities ~	
į	202 Pavement Removed: (58) (13.3333333)	= 773.33 Sq.Yd.
	305~ 15" Partland Coment Concrete Race.	
,	(58)(13.333333)	= 773.335916
/	Drainage Quantities included with Mainline Car	culations
•	Item Special ~ Pavement Sawing (58)(24)	=1,392.00Lin.Ff.
	(58)(13.3333333) Drainage Quantities included with Mainline Call Item Special ~ Pavement Sawing (58)(24)	

CURB REMOVAL COMPUTATION.

CURB REMOVAL	
Ramp "B" ~ Weigh Station ~	
5fa 353 + 47.00 fo 5fa 360 + 00.00 ~ (Ramp 5fa) 301 · {(200)(1/2)(6+3) + (251)(3) + (205)(8/12)} (9/12	tioning)~
301 : 3(200)(1/2)(6+3) + (25))(3) + (205)(8/12) = (9/12	
(1/27)	= 49.71 CuYd.
304 - E(200) (1/2) (6+3) + (251) (3) } (7/12) (1/27)	<i>= 35.71 (0.16.</i>
408 : {(200)(1/2)(6+3)+(251)(3)} (1/9)(0.40)	<i>= 73.47 Gals</i> .
202 Curb Removed	= 451.00 Lin.Ft.
202 Curb Removed, as per plan "A"	= 205.00 Lin.Ft.
203 Excavation . & (200)(1/2) (5+2) (16/12)+ (25/	
(2)(16/12) + (45/)(1)(7/12)5 (1/2)	7)- 69.10 Cu.Yd.
203 Subgrade Compaction & (200) (12) (6+3)	
+ (251)(3) + (205)	
(8/12)\forall (1/9)	= 198.85 Sq.Yd.
659 Seeding & Mulching (205)(10)(119)	= 227.78 59.76.
848 Quantities included with Ramp Calculate	ions.
Ramp "A"~ Rest Area~	Gladianian)
Sta. 440 + 02.47 to Sta. 446 + 86.00 ~ (Ramp	373710N1/19/~
301 = (472)(3) + (215)(8/12) + (9/12)(1/27)	= 43.3/ CU.Yd.
304 : \$(472)(3) } (7/12)(1/27)	= 30.59 CU.Yd.
408 - \(\) (472)(3)\(\) (1/9)(0.40)	= 62.93 Gals.
202 Curb Removed	= 472.00 Lin. Ft.
202 Curb Removed, As Per Plan "A"	= 215.00 Lin.Ft.
203 Excavation : \(\frac{2}{472}\)(2)(16/12) + (472)(1)(7/12)	5
203 Subgrade Compaction: \(\frac{472}{6/12\}\)	= 30.8/ (0.10.
203 Subgrade Compaction: 7 (4/2)(3) t(c)	
(8/12)5 (1/9)	= 173.26 59.4d. = 238.89 59.4d.
659 Seeding & Mulching (215) (10) (19) 848 Quantities included with Ramp Cald	= 238.89 59.10
848 Quantities included with Kamp Calo	CUIATIONS.
Ramp "B" ~ Rest Area ~	atationian)~
Sta. 455 + 23.26 to Sta. 456 + 25.26 ~ (Mainline	Stationing)~
304 : (42.30) (1/2) (4.0 + 11.30) (8/12) (1/27)	= 7.99 Cu. Yd.
408 : (42.30)(1/2)(4.0 + 11.30) (1/9)(0.40)	= 14.30 Ud/5.
202 Pavement Removed : (42.30)(//c)(4.0+//	70) = 25.06 60 Vd
108: (42.30)(2)(4.0 + .30) (9)(0.40) 202 Pavement Removed: (42.30)(/2)(4.0 + .30) (9)	= 35.96 59.7d. = 120.00 Lin.Ft.
202 Curb Removed, As Per Plan "B" 203 Excavation : (42.30)(1/2)(4.0+11.30)(8/12)	= 120.00 CM.FT.
(1/c)(4.0 +11.30)(0/1c)	- 700 CW
202 (1 - 1 (122) (12 20) (12)	= 7.99 Cu.Yd.
203 Subgrade Compaction (42.30) (1/2)) - 3506 SaVd
(40 + 11.30) (1/3) 660 6 1: d M (-1: (60) (1/2) (1/20 + 216)) = 35.96 Sq. \d.
659 Seeding & Mulching (60) (1/2) (11.30) (1/9) 818 Overhiling included with land (5	- 10067 GaVd
848 Quantities included with Ramp Ca	= 109.07 39.70.
848 QUANTITIES INCLUDED WITH KAMP Ca	1/0/137/0/15.
Ramp C"~ Kest Area~	.#
5/a 445 + 88.74 to 5/a 446 + 90.74 ~	
304 · (42)(1/2)(3.90 + 11.10)(8/12)(1/27)	= 7.78 CU.Yd
408 : (42) (1/2) (3.90 + 11.10) (1/9) (0.40)	- 14.00 Gals.
202 Pavement Removed: (42)(1/2)(3.90 + 11.10)	7
	= 35.00 5g.Yd.
202 Curb Removed, As Per Plan "B" 203 Excavation: (42)(1/2)(3.90 + 11.10)(8/12)(1/2	= 120.00 Lin. Ht.
203 Excavation : (42)(1/2)(390 + 11.10)(8/12)(1/2	7)= 7.78 CU.Yd.
203 Subgrade Compaction : (42)(1/2)(3:90 + 1/./	
(19)	= 35.00 Sq.Yd.
659 Seeding & Mulching: (60)(1/2)(11.10+21.60)	/
659 Seeding & Mulching: (60)(1/2)(11.10+21.60)	<i>_ = 109.00 5q.\d.</i>
848 Quantities included with Ramp Cal	culations
Ramp "D"~ Rest Area~	
Sta 155+2600 to Sta 167+1153~ (Pamo	Stationing)~
Sta 455 + 26.00 to Sta 462 + 11.53 ~ (Ramp 301 : {(471)(3) + (216)(8/12)} (9/12)(1/27)	= 43.25 CU.Yd.
304: (471)(3)(7/12)(1/27)	= 30.53 Cu.Yd.
408: (471)(3)(1/9)(0.40)	= 62.80 Ga/s.
202 Curb Removed	= 17/00 /in Ff
202 Curb Removed, As Per Plan "A"	
202 Curb Removed, As Per Plan "A" 203 Excavation: \(\frac{471}{(1/2)} \) (16/12) + (471)(1)(7/18)	EX
(1/27)	= 56.69 CU.Yd
203 Subgrade Compaction E(471)(3)+(216)	
$(\sigma ///2) = (\sigma //2) = (\sigma $	= 173.00 Sa. Vd.
659 Seeding & Mulching: (216) (10) (1/9) 848 Quantities included with Ramp	= 173.00 5q.Yd. = 240.00 5q.Yd.
848 Quantities included with Ramp	
Calculations.	

eamo "2	1"~ U.S.R. 224 Interchange~	
	58+63.82 to 5ta 664+16.40~ (Ramp	Stationing)~
	{ (397) (3) + (162) (8/12)} (9/12) (1/27)	= 36.08 Cu.Yd.
	(397)(3)(1/12)(1/27)	= 25.73 CU.Yd.
408:	: (397) (3) (19) (0.40)	= 52.93 Gals.
	Curb Removed	= 397.00 Lin. Ft.
202	Curb Removed, As Per Plan "A"	=16200 Lin.Ff
203	Excavation : {(397)(2)(16/12) + (397)(1)	
	(7/12) $=$ $(1/27)$	= 47.79 Cu.Yd
203	Subgrade Compaction: 2 (397)(3)+ (162	
	(8/16) = (1/9)	= 144,55 39 10
659	Seeding & Mulching (162)(19)(1/9)	=180.00 Sq Yd
848	Quantities included with Ramp Ca	CU/3HO15
Ramp E	"B"~ U.S.R. 224 Interchange ~	
	85 + 88.98 to 5ta 586 + 88.98 ~ (Mainline	Stationing)~
	(42) (1/2) (3.60 + 11.40) (8/12) (1/27)	= 7.78 CuYd
	(42)(1/2)(3.60 + 11.40)(1/9)(0.40)	= 14.00 Gals
	Pavement Removed (42)(1/2)(3.60 + 11.40)	
	(19)	= 35.00 59.16!
202	Curb Removed, As Per Plan "B"	- 120.00 Lin. Ff.
203	Excavation (42)(1/2)(360+11.40)(8/12)(1/2	(2))= 7.78 Cu.Yd.
203	Subgrade Compaction (42)(1/2) (3.60+1/4	10)
	(16)	=35.00 Sq.Yd
659	Seeding & Mulching : (60)(1/2)(11.40+234	
	Seeding & Mulching (60)(1/2)(11.40+23.4	= 116.00 Sq. Yd.
848	Quantities included with Ramp Calcul 63+73.81 to Sta 564+73.81 ~ (Ramp 5 (40)(1/2)(3.80+11.20)(8/12)(1/27)	ations.
Ramp "	"~ U.S.P. 224 Interchange~	
510.00	03+ 13.81 to 3ta. 264+ 13.81 ~ (Kamp 3 · (M)(1/2)(2.80+1/20)(8/12)(1/27)	= 741 Cu. Yd.
108	(40) (1/2) (3.80 + 11.20) (1/9) (0.40) Pavement Removed: (40) (1/2) (3.80 + 11.2)	= 1333 62/6
400°	· (40)(1/2) (3.80 + 11.20) (1/9) (0.40) Paramont Pemored: (40) (1/2) (3.80 + 1/2	7000 0010
COC	[10]	= 33.33 Sq. Vd.
202	Curb Removed, As Per Plan "B"	=124.00 Lin. Ft.
202	Excavation (40)(1/2)(380 + 1/20)(8/12)(1/	(2)= 711 (1)Yd
203	Subgrade Compaction: (40)(1/2)(3.80+1	(17)
200	30091 30 & COMPACTION (40)(16) (3.00 M	= 33 33 50 1/1
650	Seeding & Mulching: (6/20)(1/2)(1/20+2	387)
053	(1/0)	- 110 20 G- Vel
	1//	= //9/09/10/10/
818	Quantities included with Ramo Calci	== 9.29
	Seeding & Mulching: (61.70) (1/2)(11.20+23 Quantities included with Ramp Calco	
5/25	72+3577 to Sta 571+8011~ (Pam)	o Stationino)~
5/25	72+3577 to Sta 571+8011~ (Pam)	o Stationino)~
5/25	72+3577 to Sta 571+8011~ (Pam)	o Stationino)~
512 5, 301 304 408	72+35.77 +0 5+3.574+80.44 ~ (Ramp -{ (130)(1/2)(6+3) + (1/7)(8/12)} (9/12) (1/2) - (130)(1/2)(6+3)(7/12)(1/27) - (130)(1/2) (6+3) (1/9)(0.40)	0 Stationing)~ 1) = 18.42 CU.Yd = 12.64 CU.Yd = 26.00 Gals
512 5, 301 304 408 202	72+35.77 to 5ta 574+80.44 ~ (Ramp { (130)(1/2)(6+3) + (1/7)(8/12) } (9/12) (1/2) (130)(1/2)(6+3)(7/12)(1/27) (130)(1/2)(6+3)(1/9)(0.40) Curb Removed	0 Stationing)~) = 18.42 Cu.Yd = 12.64 Cu.Yd = 26.00 Gals = 130.00 Lin.Ft.
512.5, 301 304 408 202 202	72+35.77 to 5ta 574+80.44 ~ (Ramp {(130)(1/2)(6+3)+(1/7)(8/12)} (9/12)(1/2) (130)(1/2)(6+3)(7/12)(1/27) (130)(1/2)(6+3)(1/9)(0.40) Curb Removed Curb Removed, As Per Plan "4"	o Stationing)~) = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft.
512.5, 301. 304 408 202 202 203	72+35.77 to Sta 574+80.44 ~ (Ramp -{ (130)(1/2)(6+3) + (1/7)(8/12)} (9/12) (1/2) (130)(1/2) (6+3) (1/2) (0.40) Curb Removed Curb Removed, As Per Plan "A" Excavation: \$ (130)(1/2)(5+2)(16/12) + (1	0 Stationing)~ 1 = 18 42 Cu.Yd. = 1264 Gu.Yd. = 26,00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft.
512.5, 301. 304 408 202 202 203	72+35.77 to Sta 574+80.44 ~ (Ramp -{ (130)(1/2)(6+3) + (1/7)(8/12)} (9/12) (1/2) (130)(1/2) (6+3) (1/2) (0.40) Curb Removed Curb Removed, As Per Plan "A" Excavation: \$ (130)(1/2)(5+2)(16/12) + (1	0 Stationing)~ 1 = 18 42 Cu.Yd. = 1264 Gu.Yd. = 26,00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft.
512 5, 301 304 408 202 202 203	72+35.77 to Sta. 574+80.44 ~ (Ramp. \f(130)(1/2)(6+3) + (1/7)(8/12)\f(9/12)\f(9/12)(1/2)(1/2)\f(130)(1/2)(6+3)(1/2)(0.40)\f(0.	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft. (30) = 25.28 Cu.Yd.
512 5, 301 304 408 202 202 203	72+35.77 to Sta. 574+80.44 ~ (Ramp. \f(130)(1/2)(6+3) + (1/7)(8/12)\f(9/12)\f(9/12)(1/2)(1/2)\f(130)(1/2)(6+3)(1/2)(0.40)\f(0.	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft. (30) = 25.28 Cu.Yd.
512 5, 301 304 408 202 202 203	72+35.77 to Sta. 574+80.44 ~ (Ramp. \f(130)(1/2)(6+3) + (1/7)(8/12)\f(9/12)\f(9/12)(1/2)(1/2)\f(130)(1/2)(6+3)(1/2)(0.40)\f(0.	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. = 117.00 Lin.Ft. (30) = 25.28 Cu.Yd.
512 5, 301 304 408 202 203 203 659 848	72+35.77 to Sta 574+80.44~ (Rampo for (130)(1/2)(6+3) + (117)(8/12) for (9/12)(1/2)(1/2) for (130)(1/2) (6+3)(1/2)(1/2) for (130)(1/2) (6+3)(1/9)(0.40) Curb Removed As Per Plan "A" Excavation for	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (4) = 130.00 Sq.Yd. ulations.
512 5, 301 304 408 202 203 203 659 848	72+35.77 to Sta 574+80.44~ (Rampo for (130)(1/2)(6+3) + (117)(8/12) for (9/12)(1/2)(1/2) for (130)(1/2) (6+3)(1/2)(1/2) for (130)(1/2) (6+3)(1/9)(0.40) Curb Removed As Per Plan "A" Excavation for	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (4) = 130.00 Sq.Yd. ulations.
512.5, 301. 304. 408. 202. 203. 203. 659. 848. 512.502.	TE + 35.77 to Sta 574 + 80.44 ~ (Ramp & (130) (1/2) (6+3) + (1/1) (8/12) & (9/12) (1/2) (1	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (4) = 130.00 Sq.Yd. ulations.
5/2 5, 30/ 30/ 30/ 408 202 203 203 659 848 5/2 50	Tet 35.77 to Sta 574+80.44~ (Ramp & (130)(1/2)(6+3) + (1/1)(8/2) & (9/12)(1/2) (130)(1/2)(6+3)(7/12)(1/27) (130)(1/2)(6+3)(1/9)(0.40) Curb Removed, As Per Plan "1" Excavation: \(\frac{2}{3}(1/9)(1/2)(5+2)(16/12) + (1/2) \) Subgrade Compaction: \(\frac{2}{3}(1/2)(1/2)(6)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (3) = 25.28 Cu.Yd. (4)= 13.67 Sq.Yd. = 130.00 Sq.Yd. vlations. "C" Stationing)~ # 25 = 16
5/2 5, 301 304 408 202 203 203 659 848 5/2 50 202	Tet 35.77 to Sta 574+80.44 ~ (Ramp & (130)(1/2)(6+3) + (1/7)(8/12) & (9/12)(1/2) (130)(1/2) (6+3) (1/2) (0.40) Curb Removed As Per Plan "A" Excavation & (130)(1/2) (5+2) (16/12) + (1/2) &	o Stationing)~ = 18.42 Cu.Yd. = 12.64 Gu.Yd. = 130.00 Cin.Ft. (30) = 25.28 Cu.Yd. (3) = 130.00 Sq.Yd. (18) + 10015. (5) Stationing)~ = 16
5/2 5, 30/ 304 408 202 203 203 659 848 5/2 50 202 * The	TR+35.77 to Sta 514+80.44 ~ (Rample (130)(1/2)(6+3) + (1/1)(8/12) + (9/12)(1/2) (130)(1/2)(6+3)(1/2)(0.40) Curb Removed Curb Removed, As Per Plan "A" Excavation: \(\frac{5}{1}(130)(1/2)(5+2)(16/12) + (1/2)(1/2) Subgrade Compaction: \(\frac{5}{1}(130)(1/2)(6)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2	o Stationing)~ = 18.42 Cu. Yd. = 12.64 Cu. Yd. = 26.00 Gals. = 130.00 Lin. Ft. (30) = 25.28 Cu. Yd. 13) = 130.00 Sq. Yd. ulations. "C" Stationing)~ = 16
5/2 5, 30/ 30/ 30/ 408 202 203 203 659 848 5/2.50 202 * The Aggree	Te+35.77 to Sta.574+80.44~ (Ramp. \f(130)(1/2)(6+3)+(1/7)(8/2)\f(9)(9)(1/2)(1/2) \f(130)(1/2)(6+3)(1/2)(1/2) \f(130)(1/2)(6+3)(1/2)(0.40) \f(130)(1/2)(6+3)(1/2)(0.40) \f(130)(1/2)(6+3)(1/2)(0.40) \f(130)(1/2)(6+3)(1/2)(5+2)(161/2)+(1/2)(1/2)(1/2) \f(130)(1/2)(6+2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/	0 Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (3) = 25.28 Cu.Yd. (3) = 130.00 Sq.Yd.
5/25, 301. 304. 408. 202. 203. 659. 848. 56. 502. ** The Aggree Hier Internal Police Internal	TE + 35. 77 to Sta. 574 + 80.44 ~ (Rample (130)(1/2)(6+3) + (1/7)(8/12) + (9/12)(1/2) (1/2)(1/2) (1/30)(1/2) (6+3)(1/2)(1/2) (0.40) Curb Removed, As Per Plan "A" Excavation: \(\frac{2}{3}(1/30)(1/2)(5+2)(16/12) + (1/2) \) Subgrade Compaction: \(\frac{2}{3}(1/30)(1/2)(6)(1/2) \) Subgrade Compaction: \(\frac{2}{3}(1/30)(1/2)(6)(1/2) \) Quantities included with Ramp Calculated the second of the per plan cost of 407 Tack Coat and Cover agate used to Coat the hole when overcast divider is removed and the minous Aggregate Base used to file	o Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (43) = 130.00 Sq.Yd. vlations. "" Stationing)~ = 16 = 301
5/25, 301. 304 408 202 203 203 659 848 5/202 * The Aggree the h	TE+35.77 to Sta. 574+80.44 ~ (Pample (130) (1/2) (6+3) + (1/1) (8/2) (9/12) (1/2) (1	o Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (43) = 130.00 Sq.Yd. vlations. "" Stationing)~ = 16 = 301
5/2 5, 30/ 304 408 202 203 203 659 848 51202 4199 6 19	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130)(1/2)(6+3) + (17)(8/2) \((130)(1/2)(6+3)(1/2)(1/2)(0.40) \((130)(1/2)(6+3)(1/2)(0.40) \((130)(1/2)(6+3)(1/2)(0.40) \((130)(1/2)(6+2)(16/12) + (1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)(1/2)	o Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (43) = 130.00 Sq.Yd. vlations. "" Stationing)~ = 16 = 301
5/2 5, 30/ 304 408 202 203 203 659 848 51202 4199 6 19	TE+35.77 to Sta. 574+80.44 ~ (Pample (130) (1/2) (6+3) + (1/1) (8/2) (9/12) (1/2) (1	o Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (30) = 25.28 Cu.Yd. (43) = 130.00 Sq.Yd. vlations. "" Stationing)~ = 16 = 301
5/2 5, 30/ 304 408 202 203 203 659 848 5102 4 The Aggree Hier History Ramp 1	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130) (1/2) (6+3) + (1/7) (8/12) \((130) (1/2) (6+3) (1/2) (0.40) \\ Curb Removed As Per Plan "1" \(Excavation \) \(\frac{7}{2} (130) (1/2) (1/2) \((1/2) \) \((1/2)	0 Stationing)~ = 18.42 Cu. Yd. = 12.64 Cu. Yd. = 130.00 Cin. Ft. = 117.00 Cin. Ft. (30) = 25.28 Cu. Yd. (4) = 130.00 Sq. Yd. (1) ations. "" Stationing)~ = 30/
5/a 5, 30, 30, 40, 8, 50, 50, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	TE + 35. 77 to Sta. 574 + 80.44 ~ (Ramp. \f(130)(1/2)(6+3) + (1/7)(8/12)\f(130)(1/2)(1/2)(1/2)\f(130)(1/2)(6+3)(1/2)(0.40)\f(130)(1/2)(6+3)(1/2)(0.40)\f(130)(1/2)(6+2)(1/2)(1/2)\f(130)(1/2)\f(130)(1/2)(6+2)(1/2)\f(130)(1/2)(6+2)(1/2)\f(130)(1/2)(6+2)(1/2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(6+2)\f(130)(1/2)(1/2)\f(130)(1/2)(6+2)\f(130)(1/2)(1/2)\f(130)\f(130)\f(130)(1/2)\f(130)\f(130)\f(130)\f(130)\f(130)\f(130)\f(130)\f(Stationing)~ Stationing)~ = 18 42 Cu. Yd. = 1264 Cu. Yd. = 130.00 Cin. Ft. (3) = 13.67 Sq. Yd. = 130.00 Sq. Yd. vlations. "" Stationing)~ = 16 - 301
5/2 5, 30/ 304 408 202 203 203 659 848 56 202 4 The Aggree Hier History Cost Remove Stars	TE + 35.77 to Sta 574 + 80.44 ~ (Ramp. 2 (130)(1/2)(6+3) + (17)(8/2) ? (9/12)(1/2) (1/30)(1/2) (6+3) (1/2)(1/30) (Stationing)~ = 18 42 CU.Yd. = 1264 CU.Yd. = 130.00 Cin.Ft. (3) = 13.67 Sq.Yd. = 130.00 Sq.Yd.
5/2 5, 30/ 304 408 202 203 203 659 848 56 202 4 The Aggree Hier History Cost Remove Stars	TE + 35.77 to Sta 574 + 80.44 ~ (Ramp. 2 (130)(1/2)(6+3) + (17)(8/2) ? (9/12)(1/2) (1/30)(1/2) (6+3) (1/2)(1/30) (Stationing)~ = 18 42 CU.Yd. = 1264 CU.Yd. = 130.00 Cin.Ft. (3) = 13.67 Sq.Yd. = 130.00 Sq.Yd.
5/2 5, 30/ 304 408 202 203 203 659 848 56 202 4 The Aggree Hier History Cost Remove Stars	TE + 35.77 to Sta 574 + 80.44 ~ (Ramp. 2 (130)(1/2)(6+3) + (17)(8/2) ? (9/12)(1/2) (1/30)(1/2) (6+3) (1/2)(1/30) (Stationing)~ = 18 42 CU.Yd. = 1264 CU.Yd. = 130.00 Cin.Ft. (3) = 13.67 Sq.Yd. = 130.00 Sq.Yd.
5/2 5, 30/3 304 408 202 203 203 659 848 56 202 4 7he Front Cost Ramp 5/3.56 304 202	Tet 35.17 to Sta 574 + 80.44 ~ (Rample (130)(1/2)(6+3) + (1/2)(8/2) + (9/12) (9/12) (1/2)	Stationing)~ = 18.42 Cu. Yd = 12.64 Cu. Yd = 130.00 Cin. Ff. = 117.00 Lin. Ff. (19) = 73.67 Sq. Yd = 130.00 Sq. Yd = 130.00 Sq. Yd (10) = 16 = 16 = 16 = 16 = 16 = 16.95 Ga/s. (12) = 42.38 Sq. Yd = 42.38 Sq. Yd
5/2 5, 30/1 30/1 30/1 30/1 30/1 30/1 20/2 20/2 20/2 20/2 20/2 20/2 20/2 2	Tet 35.17 to Sta 514 + 80.44 ~ (Rample (130)(1/2)(6+3) + (17)(8/2) + (9/2) (9/2) (1/2) (1/2) (1/3) (1/2) (1/2) (1/3) (1/2) (1/3) (1/2) (1/3) (1/2) (1/3) (1/	Stationing)~ = 18.42 Cu.Yd = 12.64 Cu.Yd = 130.00 Cin.Ff. (3) = 25.28 Cu.Yd = 130.00 Sq.Yd = 130.00 Sq.Yd ations. " Stationing)~ = 30/ = 16 = 16.95 Gals. (12) = 42.38 Sq.Yd = 120.00 Cin.Ff.
5/2 5, 30/1 30/1 30/1 30/1 30/1 30/1 20/2 20/2 20/2 20/2 20/2 20/2 20/2 2	Tet 35.17 to Sta 574 + 80.44 ~ (Rample (130)(1/2)(6+3) + (1/2)(8/2) + (9/12) (9/12) (1/2)	Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 130.00 Cin.Ff. 13) = 25.28 Cu.Yd. = 130.00 Sq.Yd. = 130.00 Sq.Yd.
Sta 5, 30, 30, 40, 80, 20, 20, 30, 40, 80, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130) (1/2) (6+3) + (1/2) (8/2) + (9/2) (1/2)	Stationing)~ = 18.42 Cu.Yd = 12.64 Cu.Yd = 130.00 Cin.Ff. (3) = 25.28 Cu.Yd = 130.00 Sq.Yd = 130.00 Sq.Yd ations. " Stationing)~ = 30/ = 16 = 16.95 Gals. (12) = 42.38 Sq.Yd = 120.00 Cin.Ff.
Sta 5, 30, 30, 40, 80, 20, 20, 30, 40, 80, 50, 50, 50, 50, 50, 50, 50, 50, 50, 5	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130) (1/2) (6+3) + (1/2) (1/2) (9/2) (9/2) (1/2) (Stationing)~ = 18.42 Cu.Yd. = 12.64 Cu.Yd. = 26.00 Gals. = 130.00 Lin.Ft. (3) = 25.28 Gu.Yd. (4) = 13.67 Sq.Yd. = 130.00 Sq.Yd. (10)= 13.67 Sq.Yd. = 16.95 Gals. (23) = 42.38 Sq.Yd. = 120.00 Lin.Ft. = 9.42 Cu.Yd. = 120.00 Lin.Ft.
Sta 5, 30, 30, 40, 82, 203 203 203 203	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130)(12)(6+3) + (17)(8/12) + (9/12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)	Stationing)~ = 18.42 Cu.Yd. = 18.62 Cu.Yd. = 18.60 Gals. = 18.00 Lin.Fd. = 18.00 Lin.Fd. = 18.00 Sq.Yd. = 18.00 Sq.Yd. = 18.05 Gals. = 16.95 Gals. = 18.38 Sq.Yd. = 18.00 Lin.Fd. = 18.38 Sq.Yd. = 18.48 Sq.Yd. = 18.60 Cu.Yd. = 18.60 Cu.Yd.
Sta 5, 30, 30, 40, 82, 203 203 203 203	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130)(12)(6+3) + (17)(8/12) + (9/12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)(12) (180)	Stationing)~ = 18.42 Cu.Yd. = 18.62 Cu.Yd. = 18.60 Gals. = 18.00 Lin.Fd. = 18.00 Lin.Fd. = 18.00 Sq.Yd. = 18.00 Sq.Yd. = 18.05 Gals. = 16.95 Gals. = 18.38 Sq.Yd. = 18.00 Lin.Fd. = 18.38 Sq.Yd. = 18.48 Sq.Yd. = 18.60 Cu.Yd. = 18.60 Cu.Yd.
Sta 5, 30, 30, 40, 82, 203 203 203 203	Tet 35.77 to Sta 574 + 80.44 ~ (Rample (130) (1/2) (6+3) + (1/2) (1/2) (9/2) (9/2) (1/2) (Stationing)~ = 18.42 Cu.Yd. = 18.62 Cu.Yd. = 18.60 Gals. = 18.00 Lin.Fd. = 18.00 Lin.Fd. = 18.00 Sq.Yd. = 18.00 Sq.Yd. = 18.05 Gals. = 16.95 Gals. = 18.38 Sq.Yd. = 18.00 Lin.Fd. = 18.38 Sq.Yd. = 18.48 Sq.Yd. = 18.60 Cu.Yd. = 18.60 Cu.Yd.

	1	•	•	Initials M. S. Date 12/
15				Computations Ohecked By Initials Date 12-2
				Final Revisions By Initials Date
Intercha	nge~(Cont.)~	- 64-1.	 ~)~.	*** description of an analysis of the control of

Computations By Initials March Date 12/20/22	FHWA REGION	STATE	PROJECT
Computations Ohecked By	5	ОНЮ	·
Initials Date 12-20-83 Final Revisions By		IERT (30-4.0.	COUNTY 5

	FHWA REGION	STATE	PROJECT	1/
33	5	ОНЮ		11



	Initials	Date	
Ramp "D" ~ U.S.R. 224 Interchange ~ (Cont.) ~ Sta. 577 + 76.00 to Sta. 583 + 58.78 ~ (Ramp Stationing) ~ 301 : ₹(441)(3) + (141) (8/12) ₹ (9/12) (1/27) = 39.36 Cu.Yd. 304 : (441)(3)(7/12)(1/27) = 28.58 Cu.Yd. 408 : (441)(3)(1/9)(0.40) = 58.80 Gals.			
202 Curb Removed = 441.00 Lin.Ff. 202 Curb Removed, As Per Plan "A" = 141.00 Lin.Ff. 203 Excavation = 5(441)(2)(16/12)+ (441)(1)(1/2)			
$(1/27) = 53.08 \text{ Cu.Yd.}$ $203 \text{ Subgrade Compaction } \frac{5}{441}(3) + (141) = 15744 \text{ So.Yd.}$			
659 Seeding & Mulching (14)(10)(1/9) = 157.44 Sq.Yd. 848 Quantities included with Ramp Calculations.			
	,		

GENERAL SUMMARY

Computations By Initials M. Date 12/20/83

Computations Checked By Initials Date 12-20-83

Final Revisions By Initials Date

Date 12-20-83

FHWA REGION STATE PROJECT

STATE PROJECT

WAN WERT COUNTY

VAN -30-4.05

FHWA REGION STATE

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																			х							ROADWAY
202						31,760								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7/				76	35			202	31,942	5g. Yd.	Pavement Removed
202				1,358											:								202	1,358	5q. Yd.	Wearing Course Removed
202													45/		943	5			968				202	2,362	Lin. Ft.	Curb Removed
202 202 202 202									~ .				205		431				420	120			202 202	1,056	Lin.Ff.	Curb Removed, as per Plan "A" Curb Removed, as per Plan "B" Curb Removed, as per Plan "B" Precast Traffic Dividers Removed, as per plan
202																			16				202	16	Each	Precast Traffic Dividers Removed, as per plan
202										300.	00 925.00						950.00 923 200.00 200	500	8,300.00				202	11,400.00	Lin.Ft.	Guardrail Removed for Storage / Guardrail, Barrier Design, Removed for Storage
,											200.00	A THE STATE OF THE			2 P		200.00 200	2.00								
202									3	3 4	4	3	4 2	4 2	6	3	5 3	5 3	3				202	56	Each	Catch Basin Removed
203			321					AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	**************************************			300	69		129			as y	143	8		27	203	670	Cived	Excavation not including Embandament Construction
203 203 203		6	522							1		SEARCH MAAN THE ANNUAL PROPERTY SECTION TO THE ANNUAL PROPERTY SEC								8			203	622	Cu. Yd.	Excavation not including Embankment Construction Embankment Subgrade Compaction
203							266				Total Andrews of the Control of the		199		417				45/_	35-			ı	1	§	
606										500	125 00 800:48			·	a a		65801 60	602	175 881250				606 606	300	Linft.	Guardrail Type 5 as per plan
606 606 606 606											100.00						658.04 600 100.00 100	2.00					606	300.00	Lin.Ft.	Guardrail, Barrier Design, Type 5
606	,			3						2	2					,	2 2	7	9				606	77	Each	Anchor Assembly, Standard Type A
606											2					#,		?					606	6	Each	Guardrai Type 5 as per plan Guardrail, Type 5 Guardrail, Barrier Design, Type 5 Anchor Assembly, Standard Type A Anchor Assembly, Standard Type T Anchor Assembly, Barrier Design, Standard Type A
606											8				E A A A A A A A A A A A A A A A A A A A		8 6						606	24	Each	Bridge Terminal Assembly, Standard Type B
606 606 606																			2				606	2	Each	Bridge Terminal Assembly, Standard Type B Bridge Terminal Assembly, Standard Type D Bridge Terminal Assembly, Standard Type J
517											99.52					a a	266.96 318	2 00			9.	х				Railing (Deep Beam Rail with steel tubular back-up-Type 2
							Ž.							9:4												Posts and Bolts) as per plan
									***************************************						1 a 1								,			EROSION CONTROL
659		10	2715									AND ALL DOUBLE SHEET IN THE SHEET SH		**************************************	THE COLORS AND								659 660	10	M. 6a/5.	Water Social and Mulabine
659 659 659		9,	0.79																				659	0.79	10n	Water Seeding and Mulching (Commercial Fertilizer)
660								21	63	63 84	1 72	63	84 54	90 42	135	63	90 5	19 63	3 <i>63</i>	21			660	1170	5q. Yd.	Sodding
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																										DOMINIOSE
					3																					DRAINAGE -
603 603								10	10	<i>20 30</i>	MINNY TO THE CONTRACT OF THE PROPERTY OF THE P	20	50 20	20	50	30	20 4	0 10	20	10	₩ ₩		603 603	370	Lin.Ft.	8" Conduit, Type F
603				·					iricasamente de la companya de la c	00 00 00 00 00 00 00 00 00 00 00 00 00	NAME OF THE PROPERTY OF THE PR				32		24	9					603	32	Lin. Ft.	12" Conduit, Type C
603 603 603 603 603								16	<i>C4</i>	C4 C4 8	<i>i</i> 56	CG	32 16	8	16	<i>C4</i>	8	32 24	1 16 8	0			603	370	Lin.Ft.	6" Conduit, Type F 8" Conduit, Type F 12" Conduit, Type C 15" Conduit, Type C 18" Conduit, Type C
									***************************************															and the second s	ACCURACIONAL PROPERTY AND ACCURATE AND ACCURACY AND ACCUR	
604 604 604								/	3	3 4	4	3	4 2	4 2	4	3	5 5	5 3	3	/			604 604	54	Each	Catch Basin, Standard No.4, Without Apron, as per plan Catch Basin, Standard No.5, Without Apron, as per plan Catch Basin, Adjusted to Grade
604																\$ t			2				604	7 2	Each	Catch Basin, Adjusted to Grade
605 605				3366		19,584 17,963																	605	22,950	Lin.Ft.	Aggregate Orains, as per plan. Longitudinal Aggregate Orains, as per plan
605				4		17,963																	605	17,963	Lin. Ft.	Longitudinal Aggregate Drains, as per plan
***************************************																	4									
																	63					x				
														*, 15 *, 16 *, 16 *, 18												9
		<u> </u>			I	<u> </u>		<u> </u>							<u>L</u>	<u>.</u>										CENTEDAL GUMMADY

GENERAL SUMMARY

Computations By Initials M. Date 12/20/83
Computations Checked By Initials Date 12-20-83
Final Revisions By VAN WERT COUNTY VAN-30-4.05

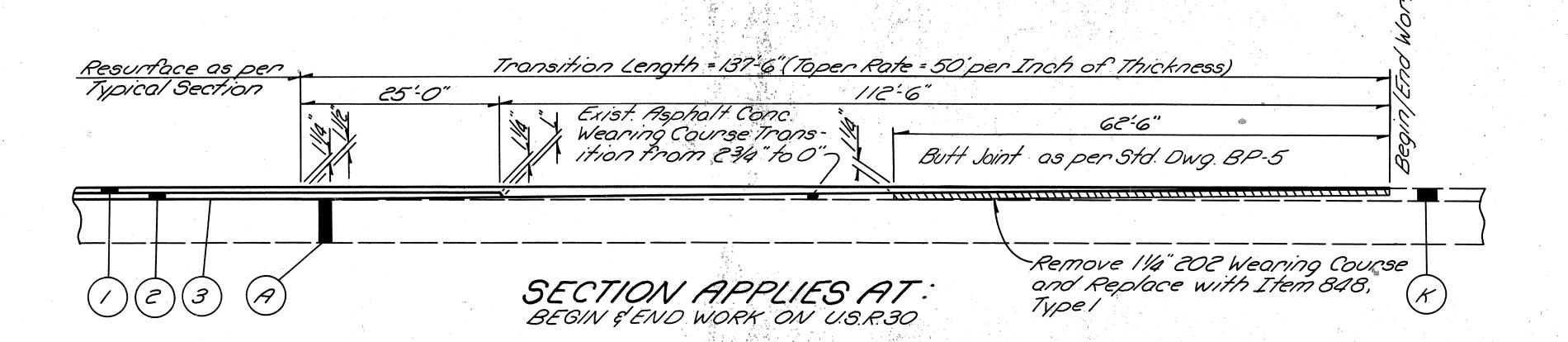
FHWA REGION	STATE	PROJECT	r	24
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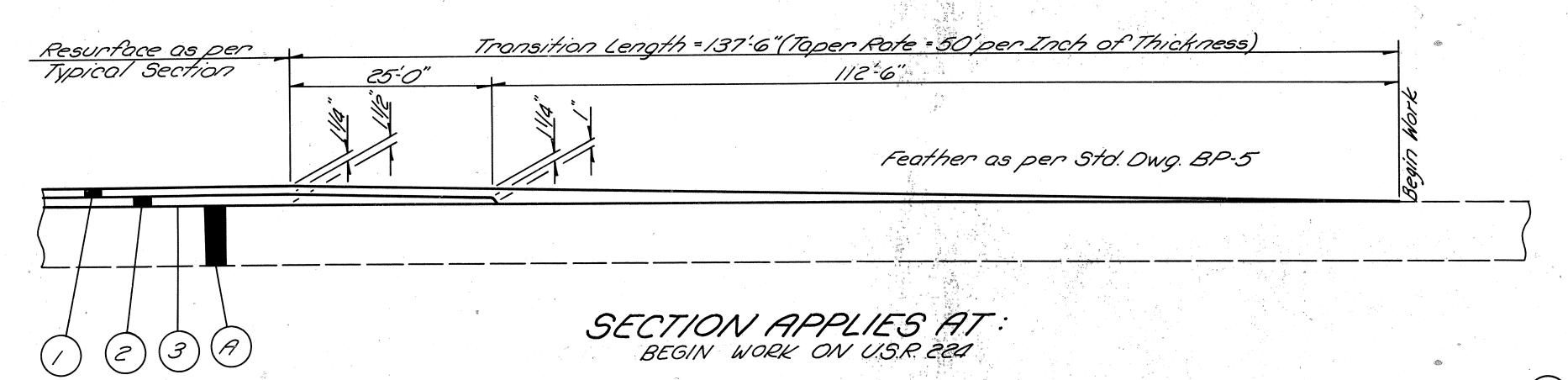
							Final Revisions By INITIALS Date VAN-30-4.05
T 6 7	12 21	SHEET 31 32 33 34 35	36 37 38 39 40	41 42 43 44 45	1 46 47 48	<i>54</i> <i>57</i> <i>58</i> <i>59</i>	DESCRIPTION
					70 77 70		PAVEMENT
		22 44	50 36	87 77	94 8		301 253 Cu.Yd. Bituminous Aggregate Base; AC-20, or RT-1/ or RT-12. 304 249 Cu.Yd. Aggregate Base.
	31,760						305 31,760 Sq. Yd. 15" Portland Cement Concrete Base
400							310 400 Cu.Yd. Subbase, Type I, Grading "A", as per plan.
	36,729	37					
	1286	107	73	154	168 14	4	407 36,766 Gal. Tack Coat. 407 1287 Ton Cover Aggregate. 408 516 Gal. Bituminous Prime Coat.
	57,168						Spec. 57,168 Lin.Ft. Pavement Sawing.
	70,946						617 70946 Sayd Shoulder Prenavation
<i>500 50</i>	731/						617 70,946 Sq.Yd. Shoulder Preparation. / 617 7811 Cu.Yd. Compacted Aggregate. / 617 50 M.Gal. Water.
	2378						
350	14,800	27 22					Spec. 2378 Lin. Ft. Pressure Relief Joint, Standard Type "D." Spec. 350 Sq. Yd. Partial Depth Pavement Joint Repair 848 14,827 Cu. Yd. Asphalt Concrete Intermediate Course, Type 2, AC-20 848 12,900 Cu. Yd. Asphalt Concrete Surface Course, Type 1, - AC-20
	12,818	22					848 12,900 Cu. Yd. Asphalt Concrete Surtace Course, Type 1, - Ac-20
	9						
							TRAFFIC CONTROL
						28.23 28.34	6/4 28.23 Miles Temporary Lane Lines, Class II Tape. 6/4 2834 Lin.Ft. Temporary Channelizing Lines, Class II Tape. 6/4 1200 Lin.Ft. Temporary Gore Marking, Class II Tape.
						1200	614 1200 Lin.Ft. Temporary Gove Marking, Class II Tape.
						35.29 14.53 40	621 35.29 Miles Edge Lines, Polyestor, as per plan. 621 14.53 Miles 4" Lane Lines, Polyestor, as per plan. 621 40 Sq.Ft. Island Marking, Polyester, as per plan. 621 1450 Lin.Ft. Double Yellow Center Lines, Polyestor, as per plan. 621 4630 Lin.Ft. Channelizing Lines, Polyestor, as per plan. 621 3139 Lin.Ft. Transverse Lines, Polyestor, as per plan.
						826 624	621 40 Sq.Ft. Island Marking, Polyester, as per plan 621 1450 Lin.Ft. Double Yellow Center Lines, Polyestor, as per plan.
						1 1 1	
				w.		820	6 847 826 Sq.Ft. Stop Lines, Preformed Plastic Pavement Marking, install
800							Spec. 800 Hrs. Law Enforcement Officer with Patrol Car.
lumo							GIA Luma Maintaining Traffic
Lump							614 Lump Maintaining Traffic. 619 Lump Field Office. 623 Lump Construction Layout Stakes. 624 Lump Mobilization.
							G24 Lump Mobilization

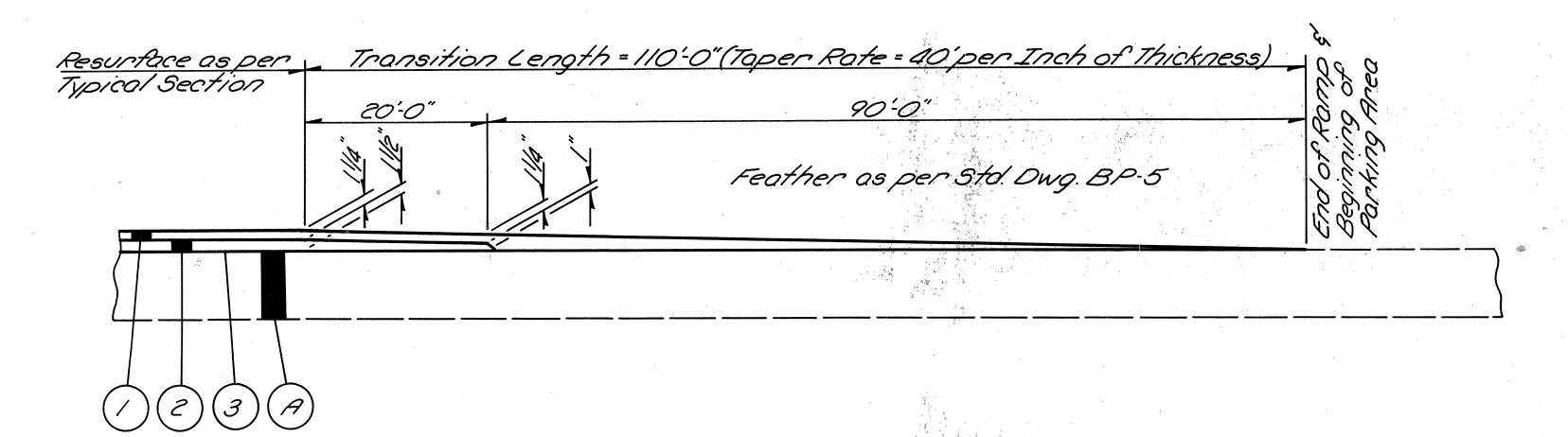
PAVEMENT TRANSITION DETAILS

FHWA REGION	STATE	PROJECT		(25
5	ОНЮ	·	,	65

VAN WERT COUNTY VAN-30-4.05







SECTION APPLIES AT: REST AREA ENTRANCE AND EXIT RAMPS WEIGH STATION ENTRANCE AND EXIT RAMPS

PROPOSED LEGENO

- (1) Item 848 11/4" Asphalt Concrete Surface Course, Type /
- (2) Item 848 11/2" Asphalt Concrete Intermediate Course, Type 2
- 3) Item 407 Tack Coat with Cover Aggregate

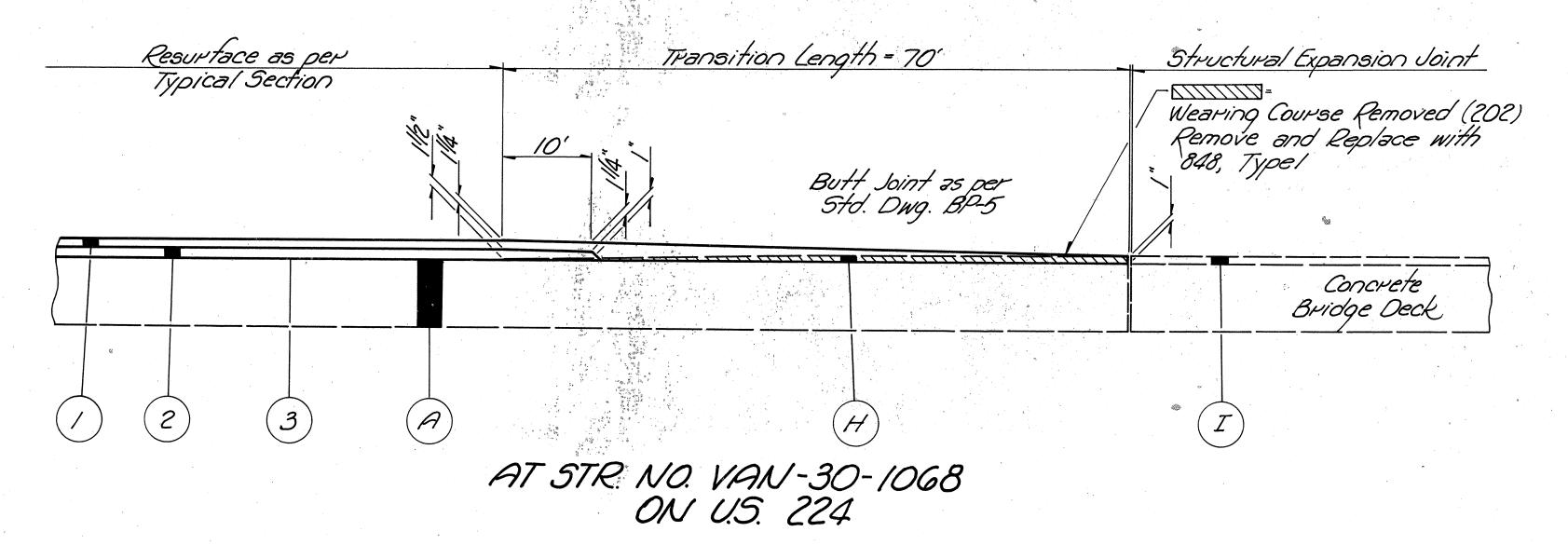
EXISTING LEGENO

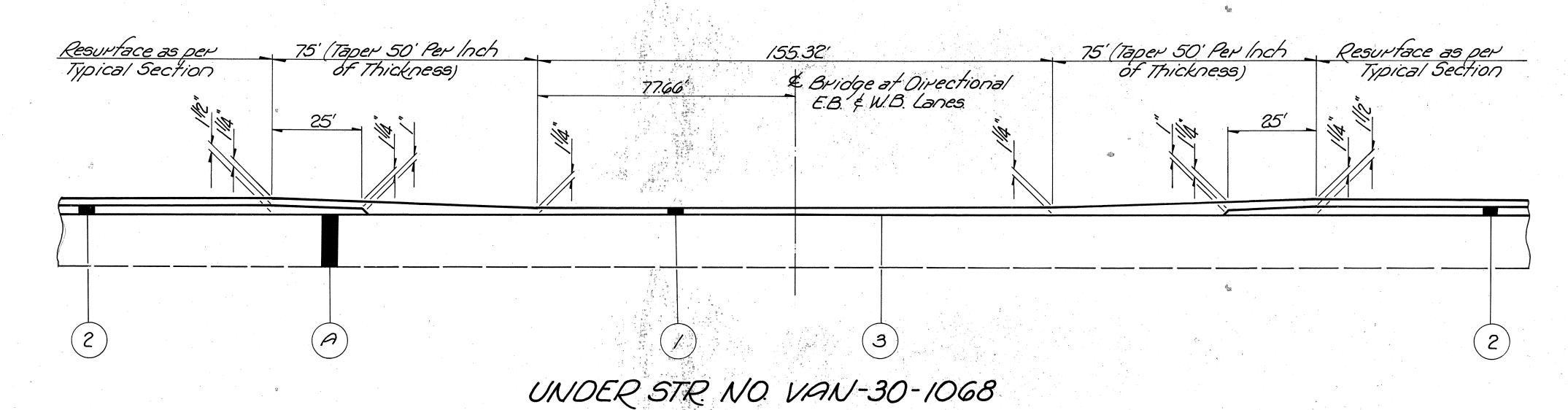
- (A) 9" Reinforced Portland Cement Concrete Pavement
- (K) 23/4" Asphalt Concrete Overlay

FHWA REGION	STATE	PROJECT	(20	
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VAN WERT COUNTY VAN-30-4.05

PAVEMENT TRANSITION DETAILS





EXISTING LEGEND

- (A) 9" Reinforced Portland Cement Concrete Pavement.
- (H) Asphalt Concrete Overlay
- (I) 114" Latex Modified Concrete.

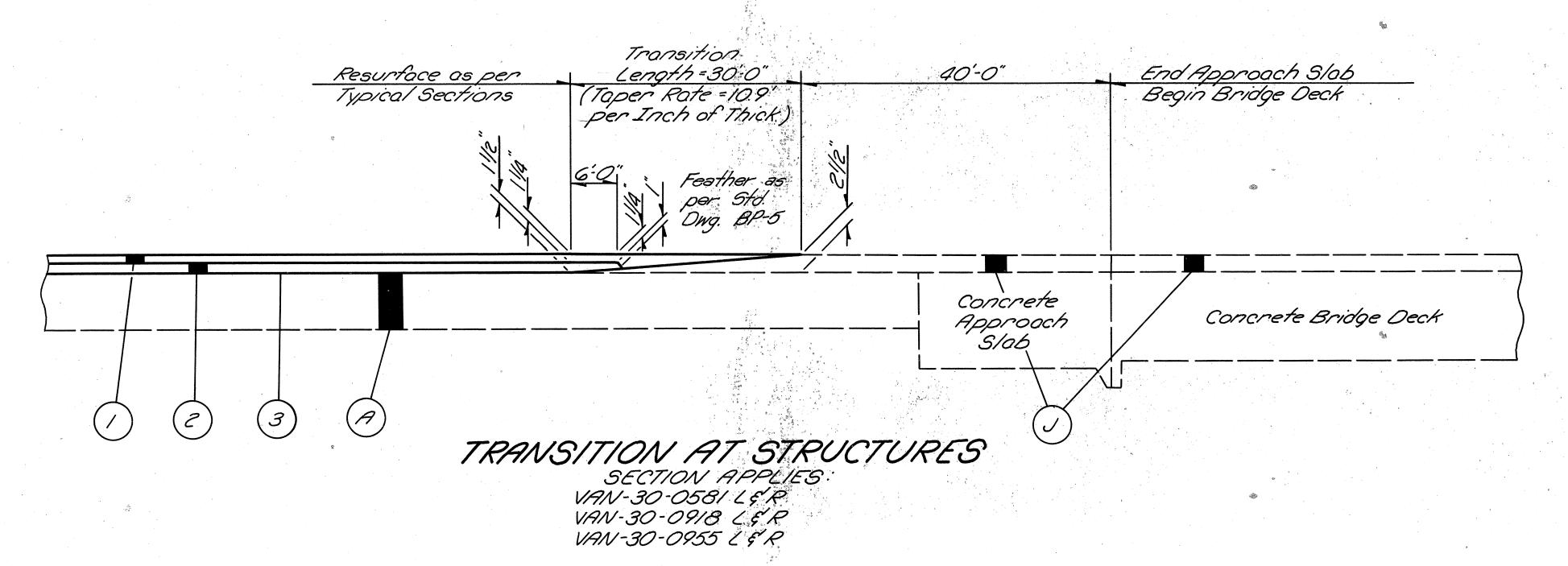
PROPOSED LEGENIO

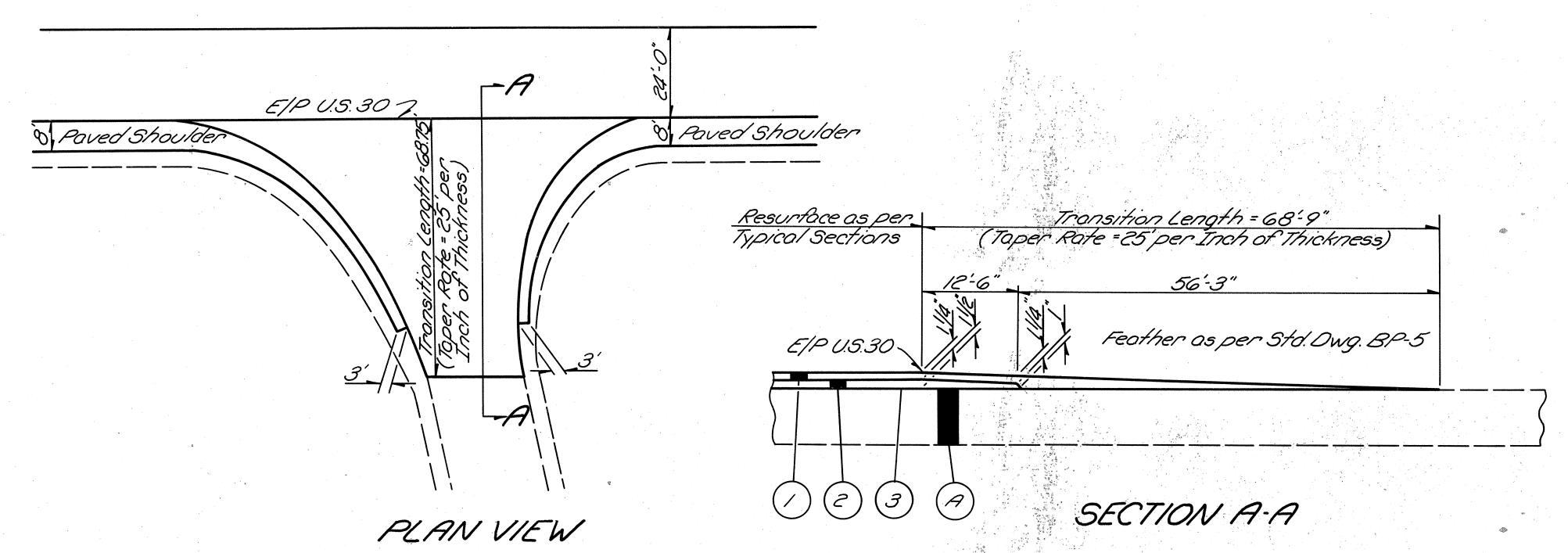
- 1) Item 848 14" Asphalt Concrete Surface Course, Type !
- 2) Item 848 11/2" Asphalt Concrete Intermediate Course, Type 2.
- 3) Hem 407 Tack Coat with Cover Aggregate.

FHWA REGION	STATE	PROJECT	27
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VAN-30-4.05

PAVEMENT TRANSITION DETAILS





TRANSITION DETAIL FOR AT GRADE INTERSECTIONS ON U.S.R. 30

PROPOSED LEGENO

- (1) Item 848 11/4" Asphalt Concrete Surface Course, Type 1
- (2) Item 848 11/2" Asphalt Concrete Intermediate Course, Type 2
- (3) Item 407 Tack Coat with Cover Aggregate

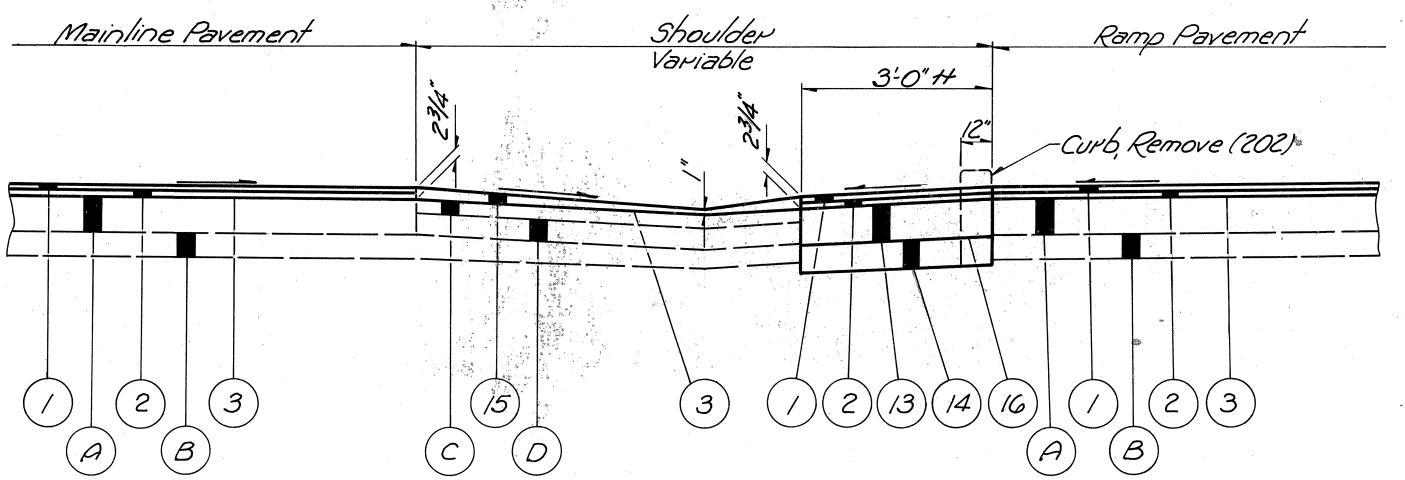
EXISTING LEGENO

- (A) 9" Reinforced Portland Cement Povement
- (J) 21/2" Asphalt Concrete Overlay

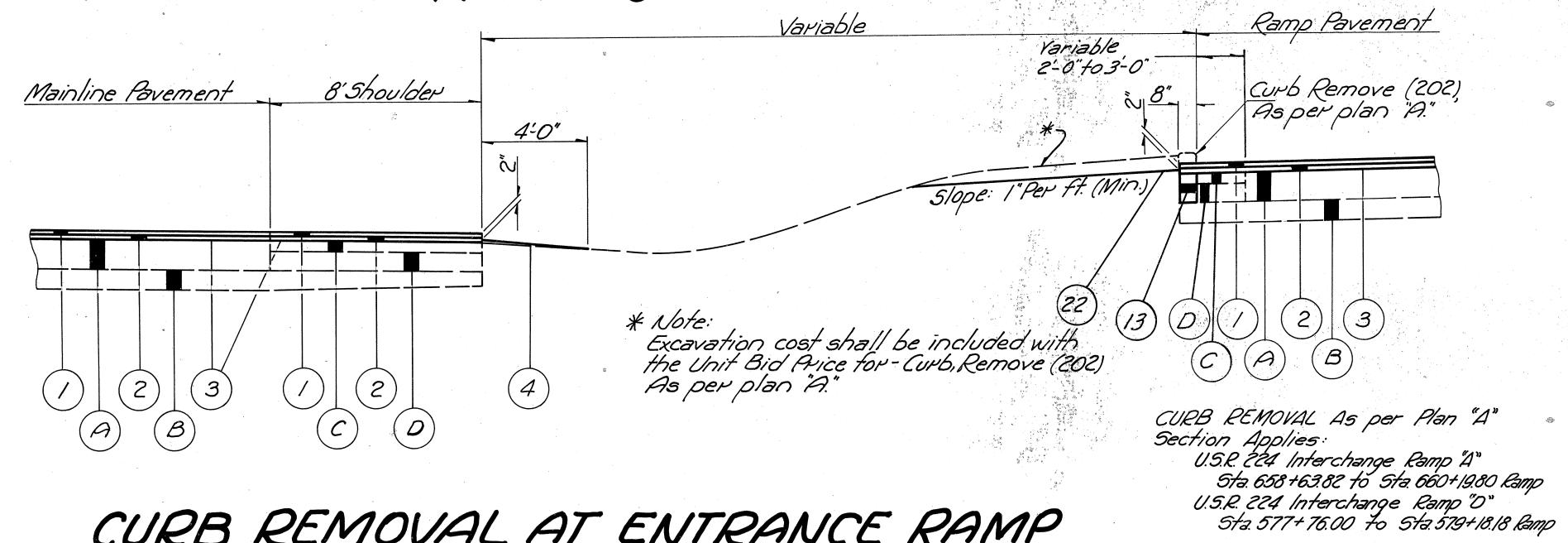
CURB REMOVAL AT ENTRANCE RAMP

FHWA REGION 28 65 PROJECT STATE OHIO

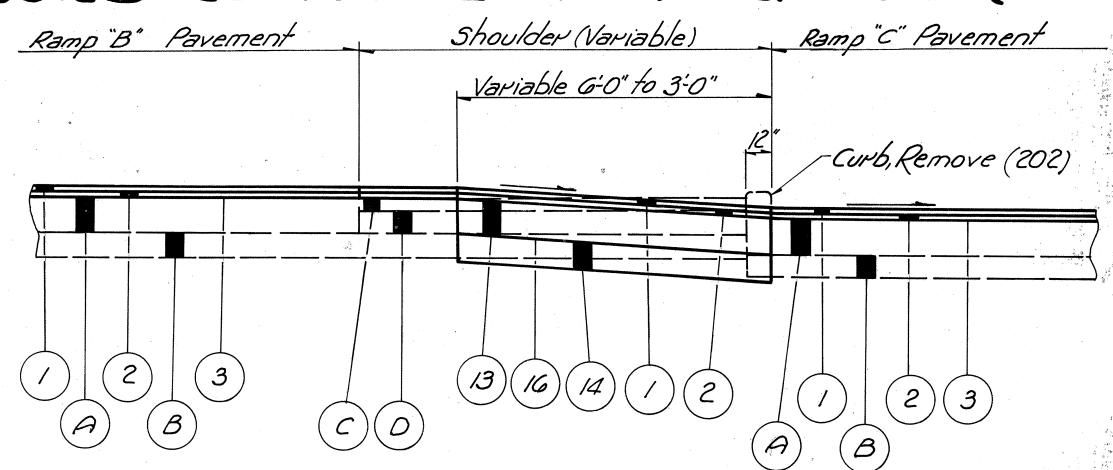
VAN WERT COUNTY VAN-30-4.05



CURB REMOVAL AT ENTRANCE RAMP AS PER PLAN "A"



CURB REMOVAL AT ENTRANCE RAMP



"CURB REMOVAL AT ENTRANCE RAMP Section Applies: U.S.R. 224 Interchange Ramp "C" Sta. 573+52.00 to Sta. 574+80.44 Ramp

14 Yariable Width 6-0" to 3-0" from 5ta. 355+50.00

to Sta.357+49.00 at Weigh Station Ramp "B"

CURB REMOVAL AT ENTRANCE RAMP (Constant Width 3) Section Applies: Weigh Station Ramp "B" 5ta, 355+50.00 to Sta. 360+00.00 Ramp Rest Area Ramp "A"
Sta. 440+02.47 to Sta. 444+74.47 Ramp Rest Area Ramp "D Sta. 457+42.00 to Sta. 462+ 11.53 Ramp U.S.R. 224 Interchange Ramp "A" Sta. 660 + 19.80 to Sta. 664 + 16.40 Ramp U.S.R. 224 Interchange Ramp "D" Sta 579 + 18.18 to Sta 583+58.78 Ramp

EXISTING LEGENO

- 9" Reinforced Portland Cement Concrete Pavement
- (B)
- Waterproofed Aggregate Base.
- Aggregate Base.

PROPOSED LEGEND

- Item 848 1/4" Asphalt Concrete Surface Course, Type !
- Item 848 1/2" Asphalt Concrete Intermediate Course, Type 2.
- Item 407 Tack Coat with Cover Aggregate.
- Item 617 Reconditioning Shoulders Including Shoulder Preparation Compacted Aggregate and Water Item 301 9" Bituminous Aggregate Base, AC-20, RT-11 or RT-12.
- Item 304 7"Aggregate Base.
- Item 848 Asphalt Concrete Surface Course, Type I, Variable Thickness.
- Item 408 Bituminous Prime Coat Applied at the Rate of 0.4 Gal. per
- Item 659 Seeding and Mulching

CURB REMOVAL DETAILS

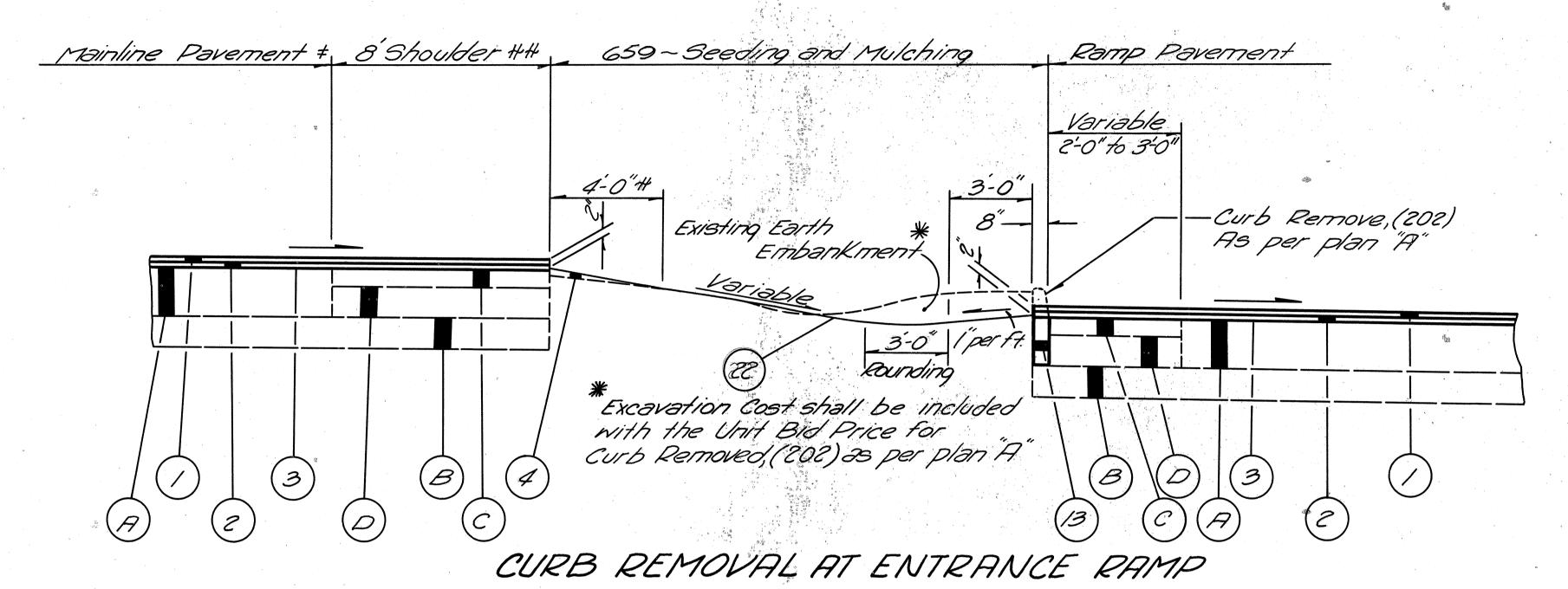
FHWA REGION	STATE	PROJECT	(6	
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VAN WERT COUNTY VAN -30 -4.05

: Ramp "A" Pavement for U.S.R. 224 Interchange Ramp "C"

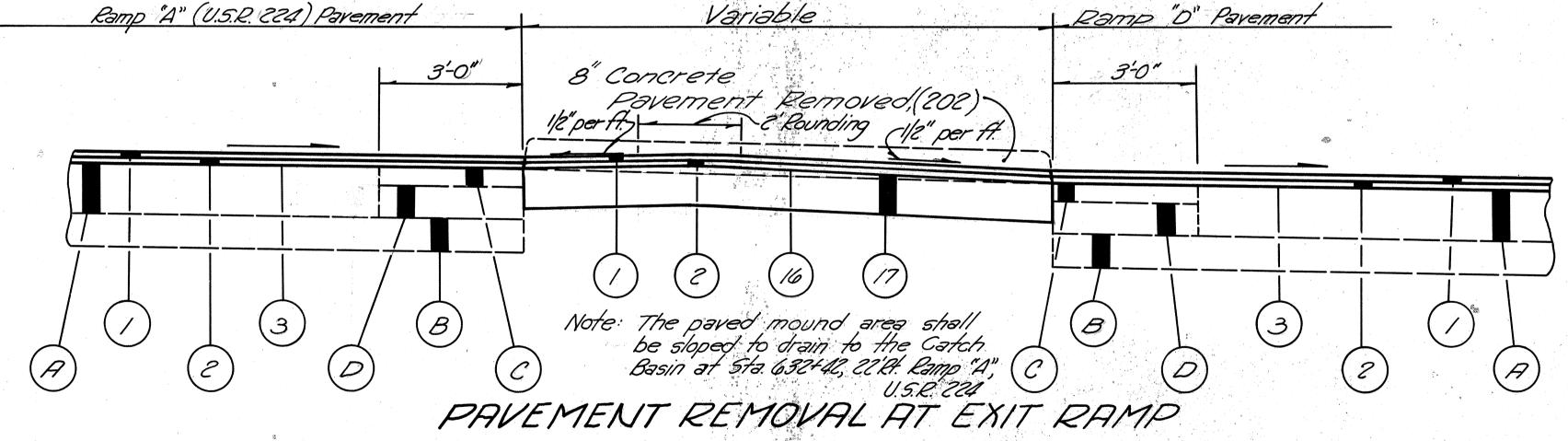
2'-0" for U.S.R. 224 Interchange Ramp "C"

##: 3' Shoulder for U.S.R. 224 Interchange Ramp "C"



TYPICAL SECTION AT LEFT APPLIES:
Weigh Station Ramp "B"
Sta. 353+47.00 to Sta. 355+50.00
Rest Area Ramp "A"
Sta. 444+74.47 to Sta. 446+86.00
Rest Area Ramp "D"

Rest Area Ramp "D" Sta. 455+26.00 to Sta. 457+42.00 USR 224 Interchange Ramp "C" Sta. 572+35.77 to Sta. 573+52.00



TYPICAL SECTION AT LEFT APPLIES:

USR 224 Interchange Ramp "D" Sta. 567 + 84.74 to Sta. 568+26.54

PROPOSED LEGEND

- 1) Item 848 1/4" Asphalt Concrete Surface Course,
- 2) Item 848 1/2" Asphalt Concrete Intermediate Course, Type 2
- (3) Item 401 Tack Coat with Cover Aggregate
- 4) Item 617 Reconditioning Shoulders Including Shoulder Preparation, Compacted Aggregate & Water
- B) Item 301 9" Bituminous Aggregate Base, AC-20, 2T-11 or RT-12
- 16) Item 408 Bituminous Prime Coat Applied at the Rate of 0.4 Gals. per Square Yard
- (17) Item 304 8" Aggregate Base
- (22) Item 659 Seeding and Mulching

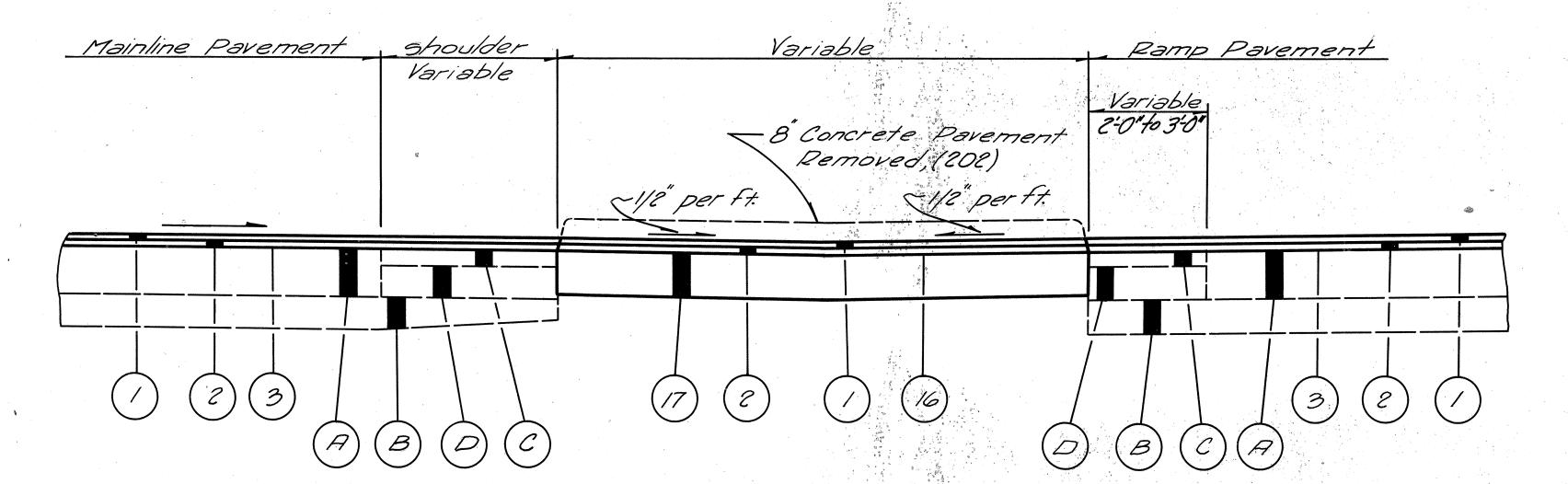
EXISTING LEGEND

- A) 9" Reinforced Portland Cement Concrete Pavement
- B) Subbase
- (C) Waterproofed Aggregate Base
- (D) Aggregate Base

FHWA REGION STATE PROJECT (30) (65) OHIO

VAN WERT COUNTY VAN - 30 - 4.05

CURB REMOVAL DETAILS



PAVEMENT REMOVAL AT GORE

TYPICAL SECTION AT LEFT APPLIES Rest Area Ramp "B"

Sta. 455+82.96 to Sta. 456+25.26

Rest Area Ramp "C"

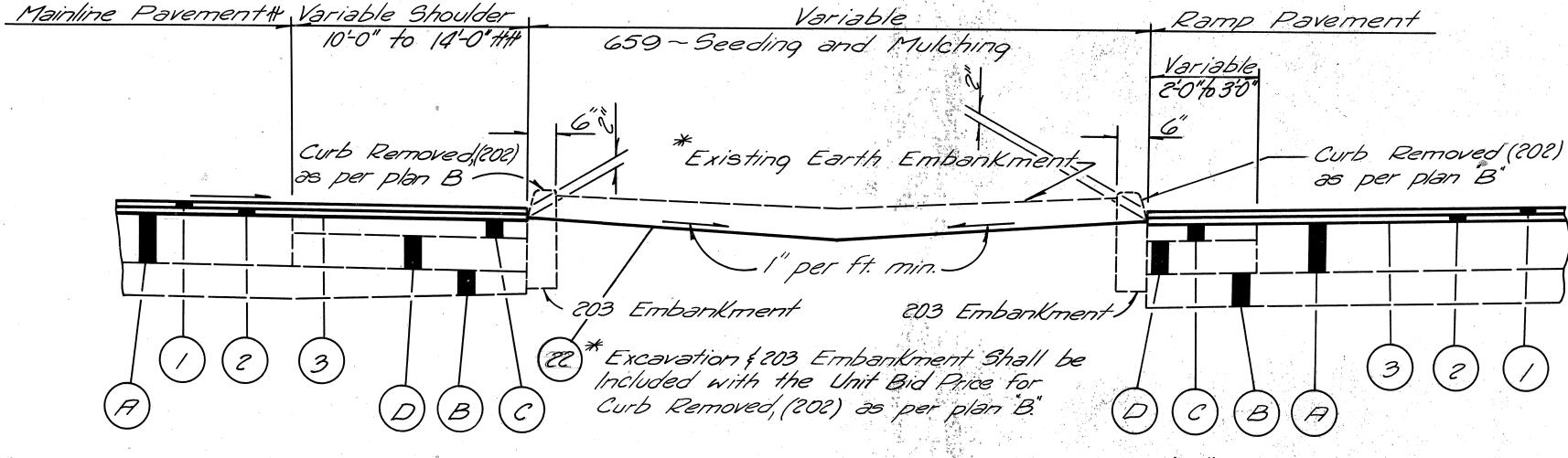
Sta. 445+88.74 to Sta. 446+28.74

USR 224 Interchange Ramp "B"

Sta. 586+46.68 to Sta. 586+88.98

USR 224 Interchange Ramp "C"

Sta. 563+73.81 to Sta. 564+13.81



TYPICAL SECTION AT LEFT APPLIES: Rest Area Ramp "B" Sta, 455+23.26 to Sta. 455+82.96 Sta. 455+23.26 to Sta. 455+82.96
Rest Avea Ramp "C"
Sta. 446+28.74 to Sta. 446+90.74
USR 224 Interchange Ramp "B"
Sta. 585+88.98 to Sta. 586+46.68
USR 224 Interchange Ramp "C"
Sta. 564+13.81 to Sta. 564+73.81
USR 224 Interchange Ramp "D"
"Sta. 568+26.54 to Sta. 568+84.74

EXISTING LEGEND

CURB REMOURL AS PER PLAN "B"

- 9" Peinforced Portland Cement Concrete Pavement
- # : Ramp "A" Pavement for U.S.R. 224 Interchange Ramp "C" 144: 3' Shoulder for U.S.R. 224 Interchange Ramp "C"

Subbase

PROPOSED

Waterproofed Aggregate Base

Tack Coat with Cover Aggregate

Aggregate Base

- Bituminous Prime Coat Applied at the Rate of 0.4 Gal. per Square Yard 8" Aggregate Base

LEGEND

1/4" Asphalt Concrete Surface Course, Type !

11/2" Asphalt Concrete Intermediate Course, Type 2

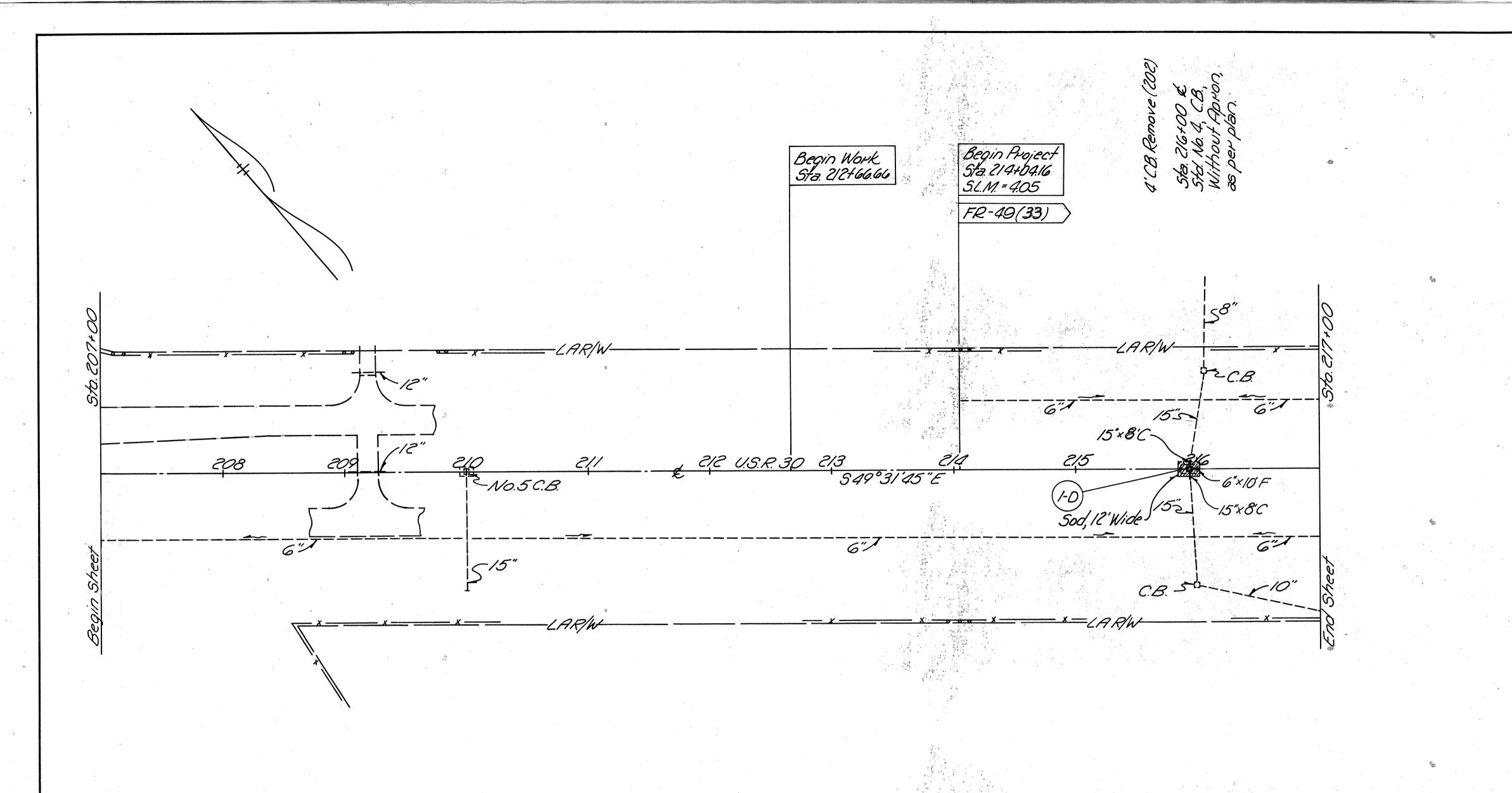
Item 659 Seeding and Mulching

FHWA REGION computations By nitials M. S. Date 12/20/83 (3) (65) PROJECT ОНЮ hatfors Checked By Date 12-20-83 MEDIAN CROSSOVER UPGRADE DETAIL VAN WERT COUNTY VAN-30-4.05 STA. 224+28 200' Taper <u>+88.10</u> 17.57'Lt. * For Quantities see Sheet 33. Std. No.4 C.B., Without Apron, 2-6"x10'F 222 as per plan WHATTA -Std. No. 4 C.B., Without Apron, 233 11 - 50d 12' Wide U.S. 30 \<u>+18</u> 1.75'Rt. *4'CB. Remove (202) 15"x8'C +89.52 18'Rt. 2 15"x8"C +67.90 17.57'Rt. Existing Concrete 200' Taper PROPOSED LEGENO Mainline Variable 4:0" Existing Concrete Crossover 0' to 8'-0" Yariable Pavement Item 848 114" Asphalt Concrete Surface Course, Type 1. (Variable) Item 848 1/2" Asphalt Concrete Intermediate Course, Type 2. IR per ft. Variable Variable 12" Per ft. Item 407 Tack Coat with Cover Aggregate Item 408 Bituminous Prime Coat Applied at the rate of 0.4 bal. per Sq. Vd. Item 301 3" Bituminous Aggregate Base, AC-20, RT-11 or RT-12. Item 304 6" Aggregate Base. ltem 203 Embankment. SECTION A"- "A" SECTION "B"-B" EXISTING LEGENO 9" Reinforced Portland Cement Concrete Pavement. Subbase MEDIAN CROSSOVER ESTIMATED QUANTITIES Waterproofed Aggregate Base Aggregate Base. AREAS USED FOR MEDIAN CROSSOVER QUANTITIES Area of Existing Concrete Crossover (from Original Plans) = 192.95 Sq.Yd. Area of Existing Shoulders (By Planimeter) = 201.78 Sq.Yd. Area of Widening (By Planimeter) = 242.22 Sq.Yd. Area of Existing Shoulder Removal = 24.12 Sq.Yd. Sq. Yd. Cu. Yd. Cu. Yd. Cu.Yd. *TO* 22/+89.52 233+25.85 266.34 22 22.20 44.39 37.06 1.30 106.54 744.0 22.12 26.54 44.39 37.06 1.30 106.54 744.0 22.12 26.54 266.34 Quantities for 203 Excavation, 203 Embankment and 659 Seeding and Mulching Carried to Sheet 7.

Station

From

Totals



Computations Checked By Initials A Date 12-20-83 VAN WERT COUNTY Final Revisions By VAN - 30 - 4.05

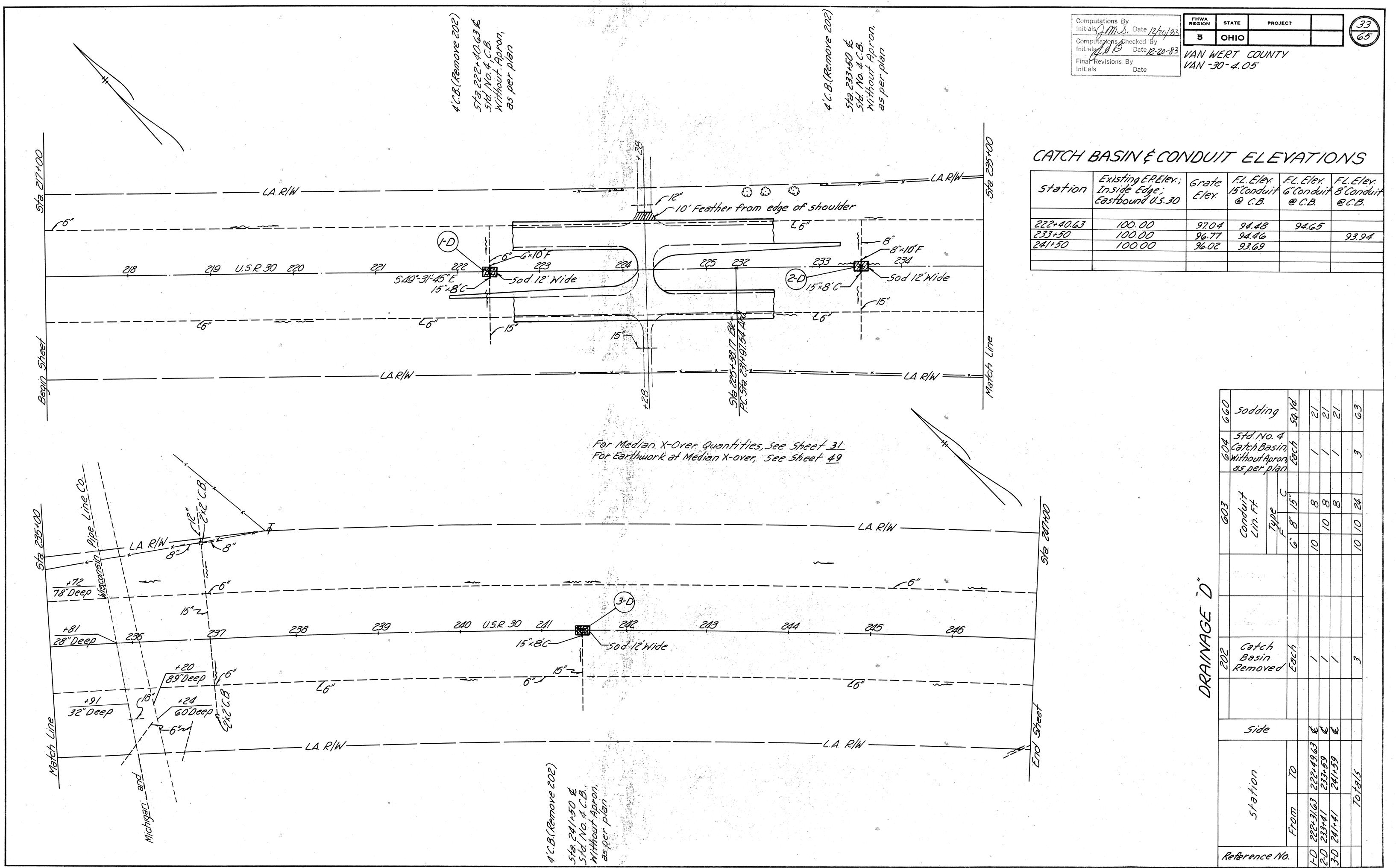
PROJECT

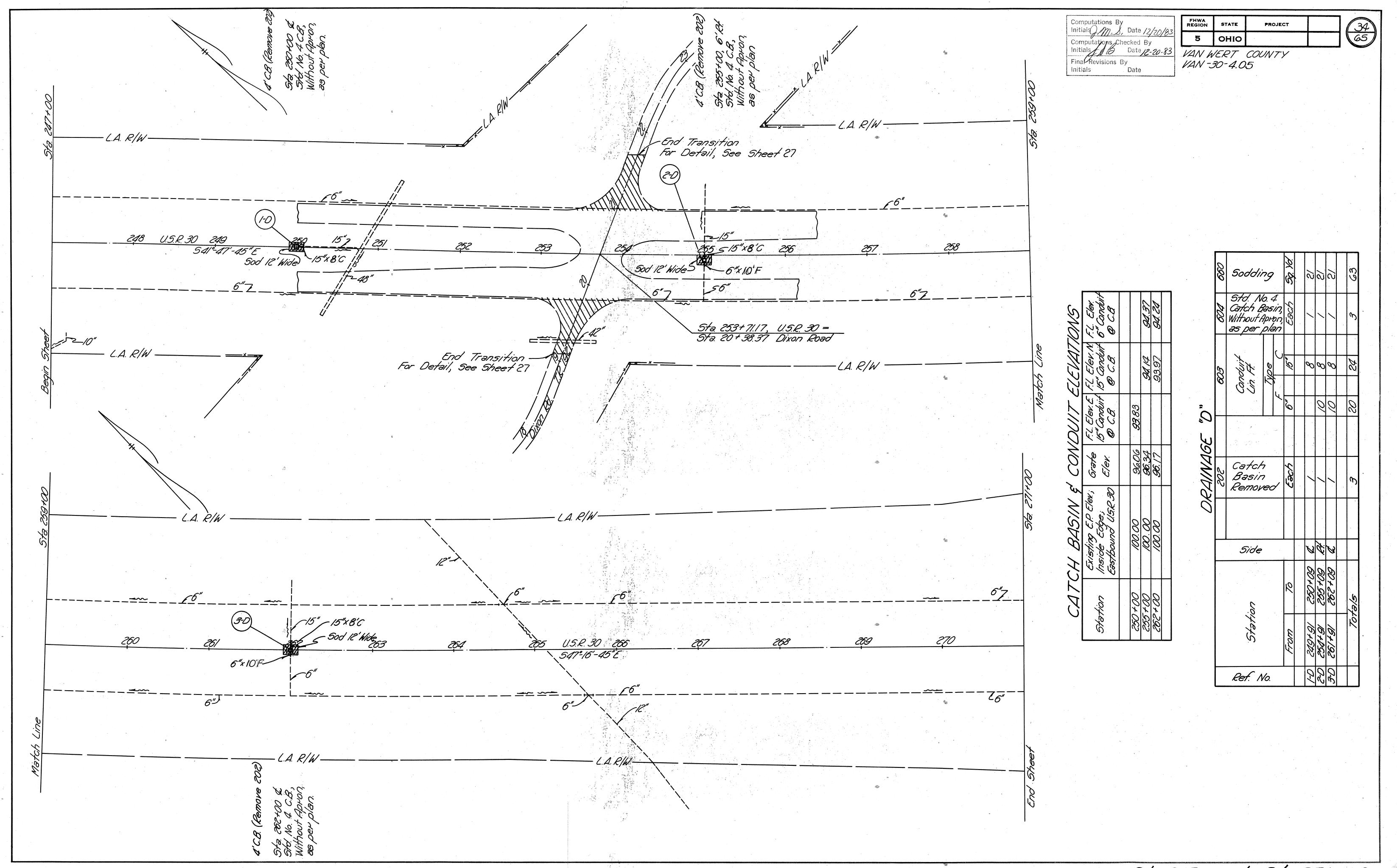
DRAINAGE "D"

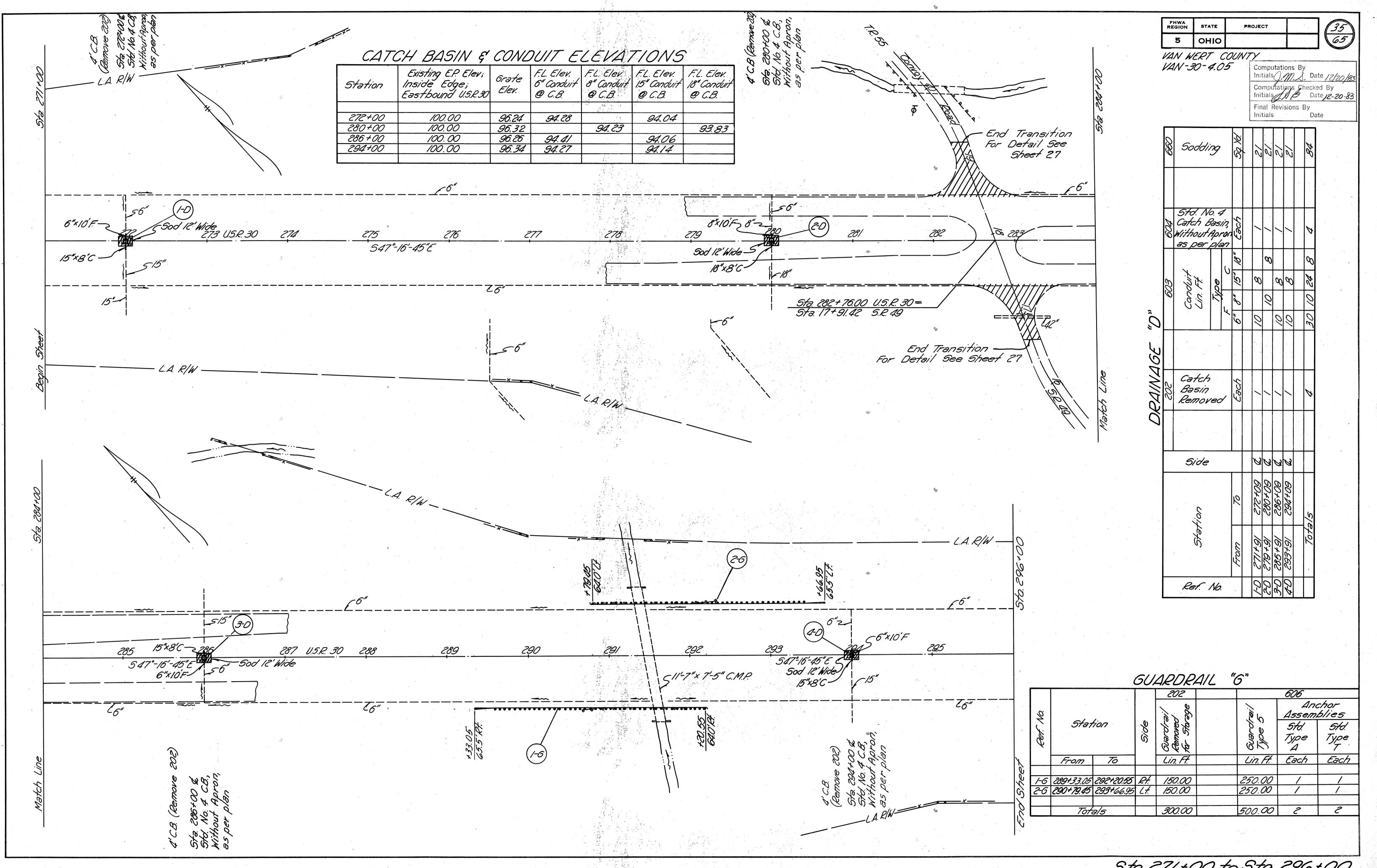
•	•			レス	PITO	PIGC				*	
					202	en e			603	604	660
Refub	Sta	tion	Side		Catch Basin Removed				onduit in. Ft. Type C	Sta No. 4 Catch Basin Without Apron as per plan	Sodding
	From	<i>To</i>			Each			6"	15"	Each	Sq. Yd.
	·						,				,
1-0	215+83.63	216+01.63	É		/			10	16	/	2/
								·		,	
Tota	7/5				/			10	16		2/

CATCH BASIN & CONDUIT ELEVATIONS

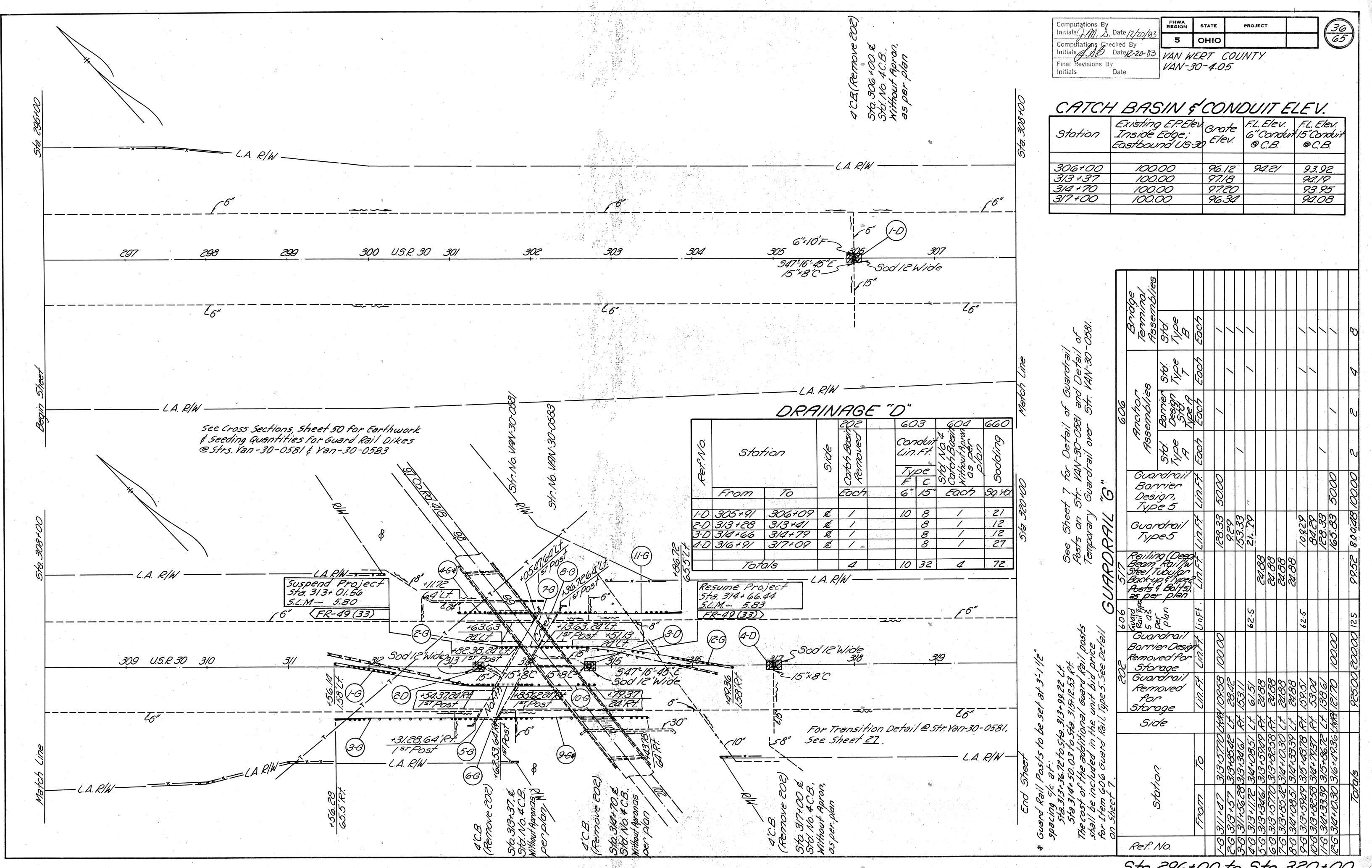
Station	Exist E.P. Elev.; Inside Edge; Eastbound U.S.30	Grate Elev.	FL Elev. N. 15 "Conduit @ C.B.	FL Elev. S. 15" Conduit @ C.B.	F.L. Elev. E. 6" Conduit @ C.B.
215+92.63	100.00	96.44	92.10	92./3	93.82



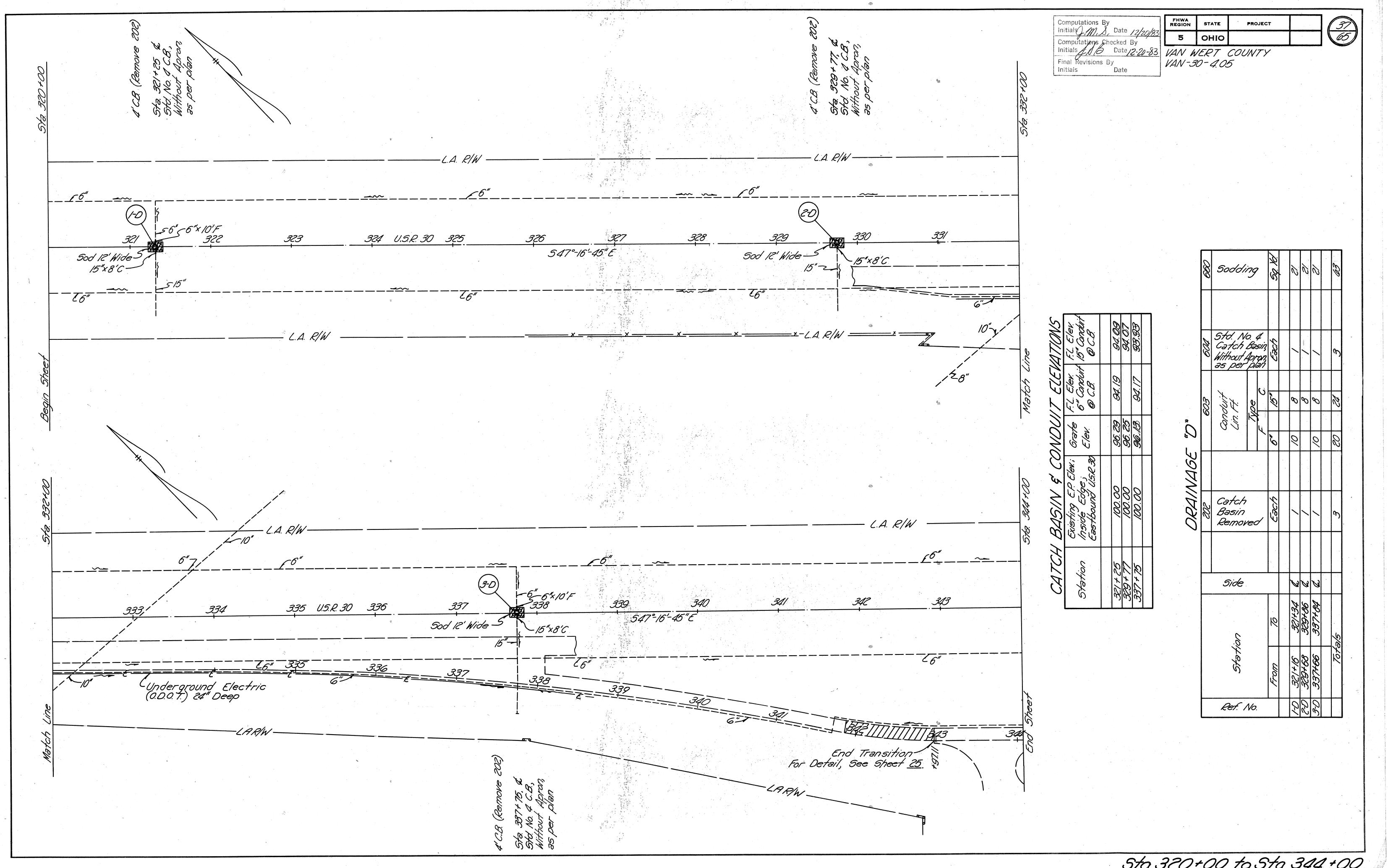




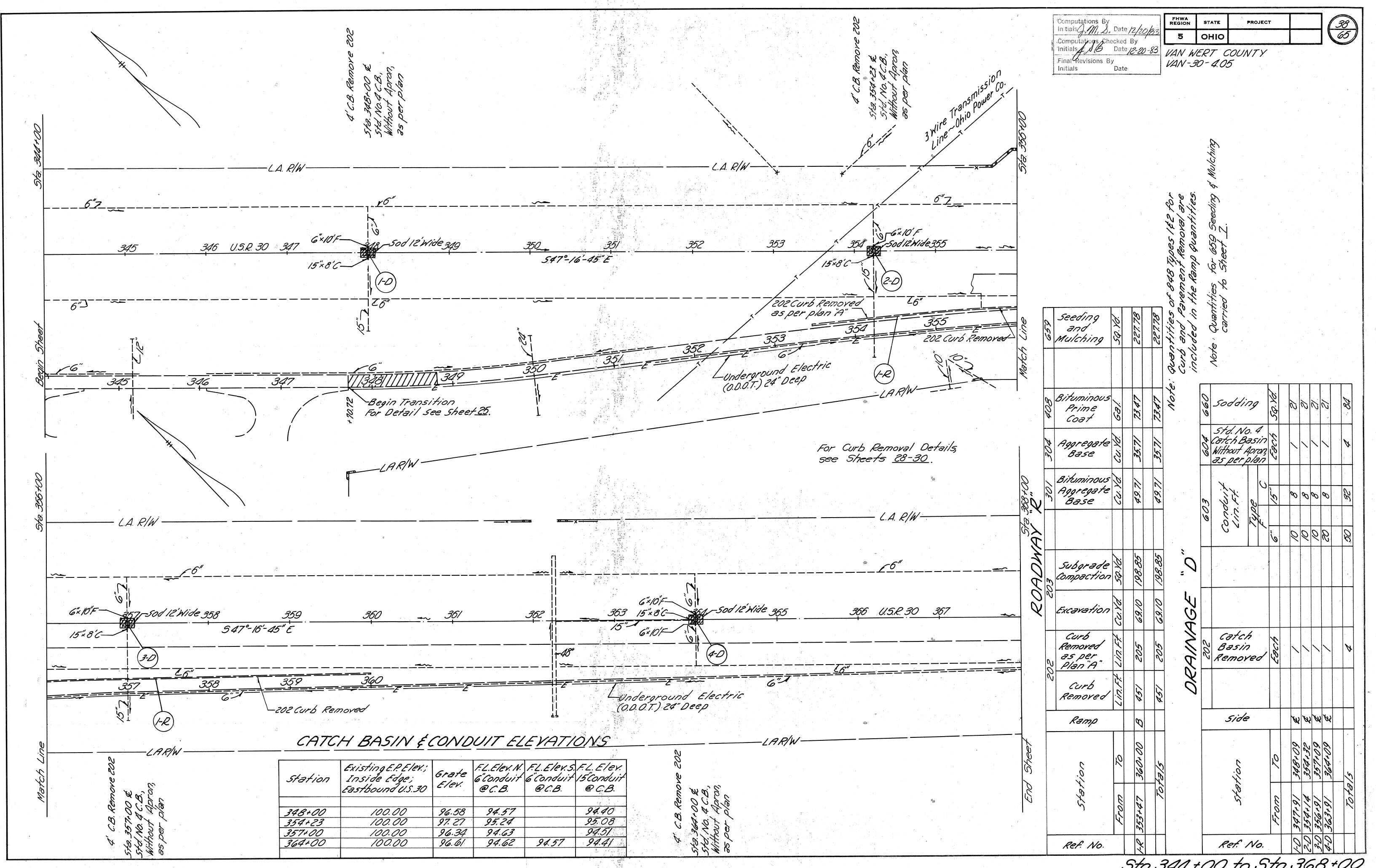
Sta. 271+00 to Sta. 296+00



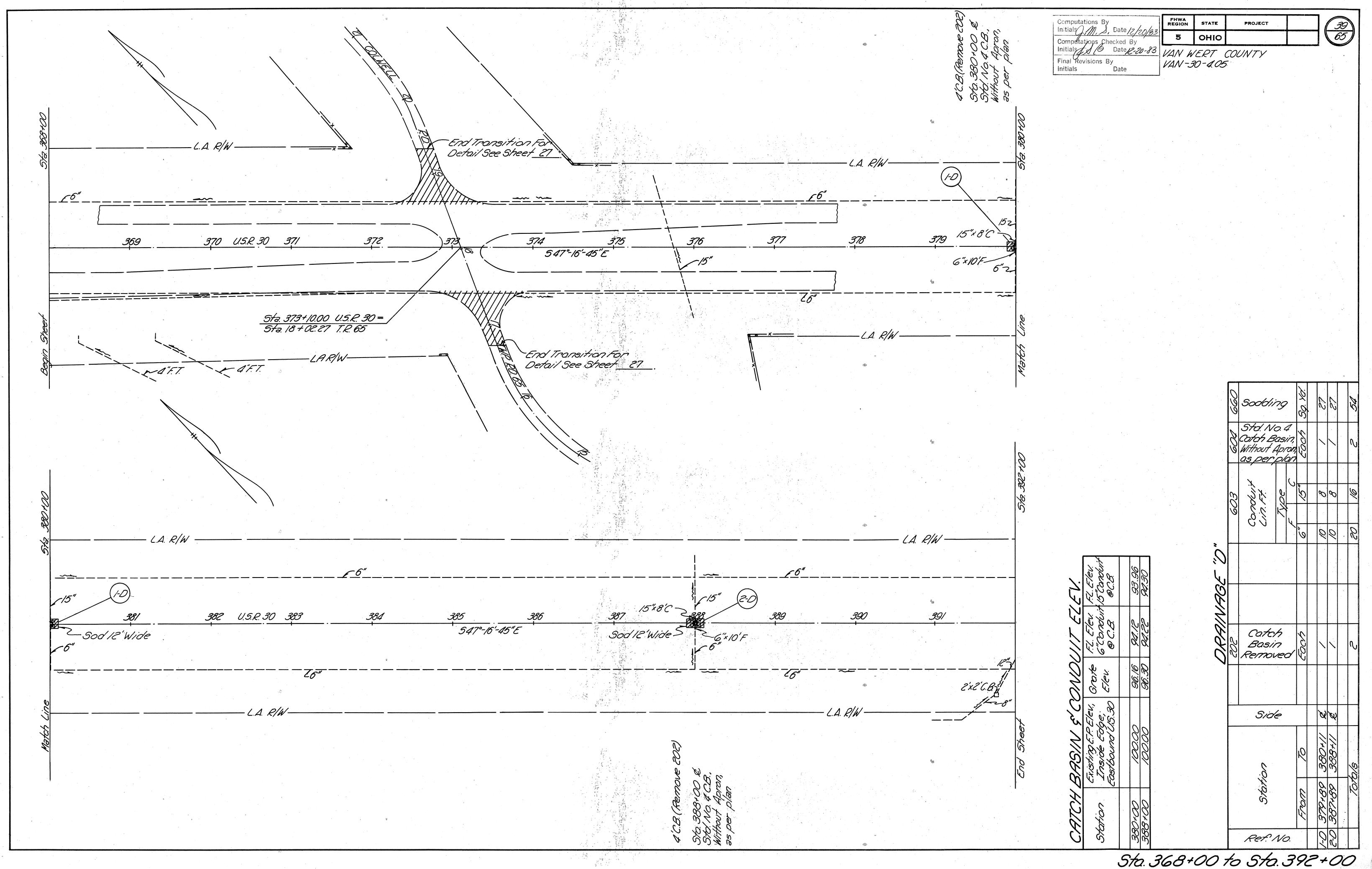
Sta. 296+00 to Sta. 320+00

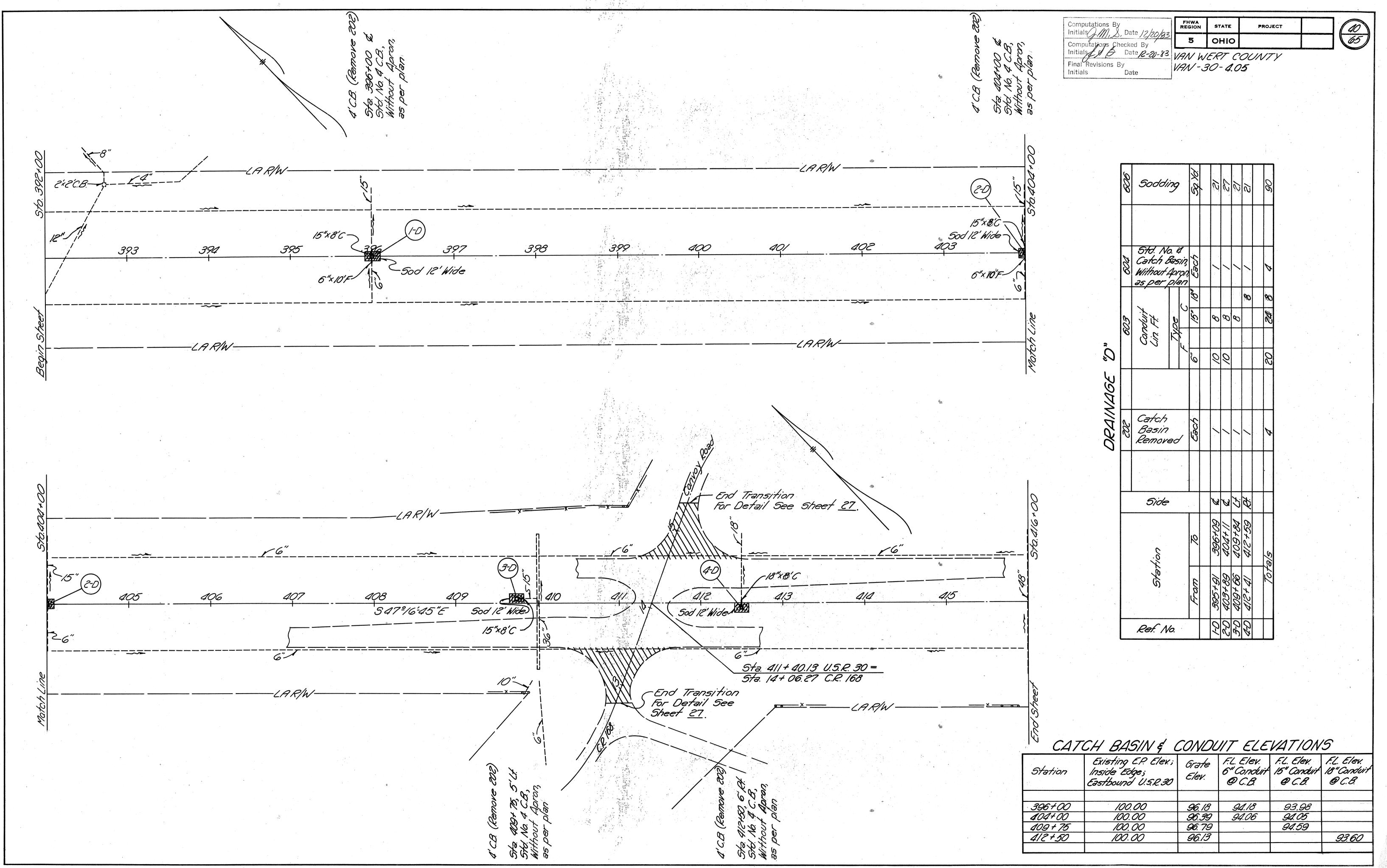


Sta.320+00 to Sta.344+00

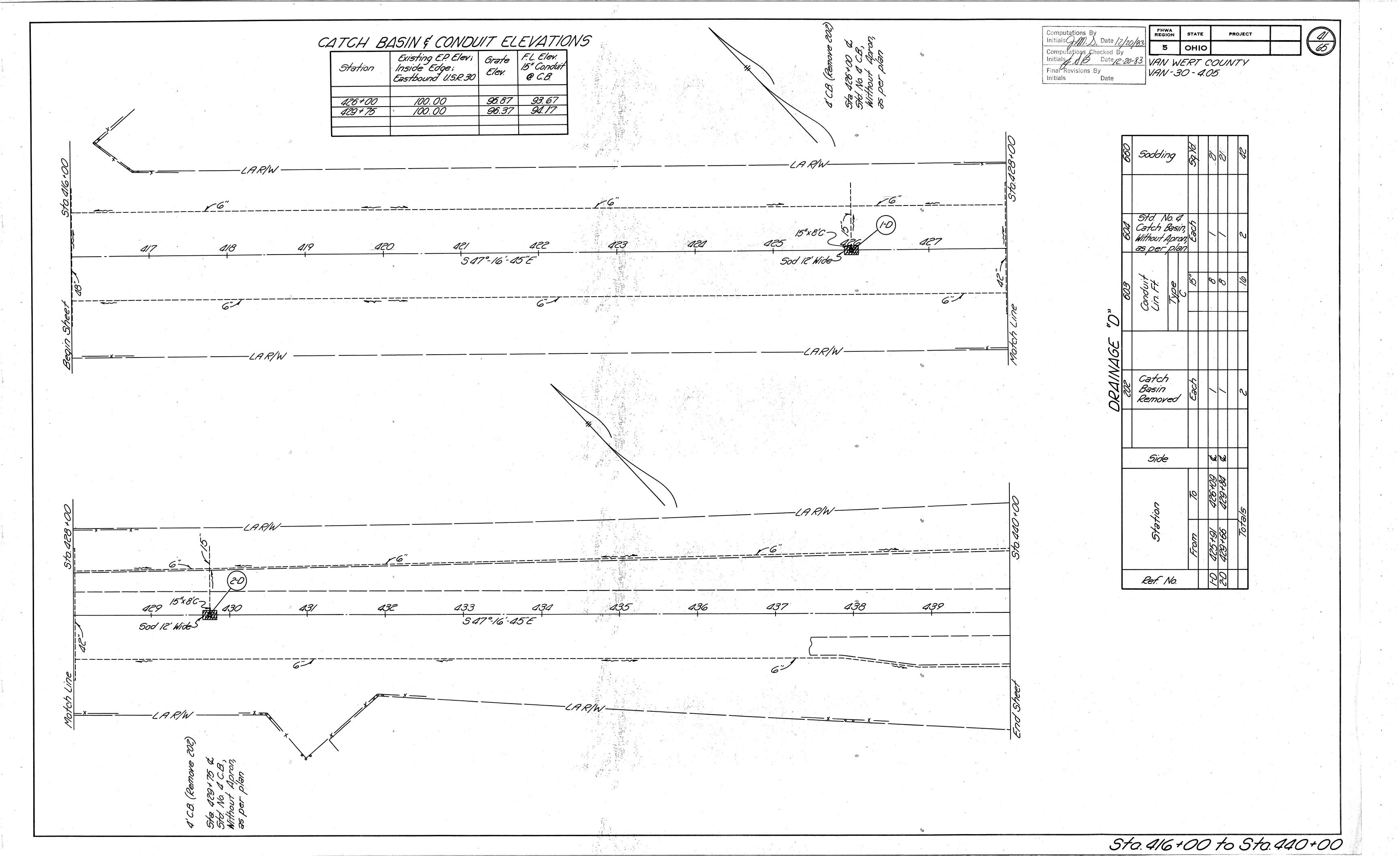


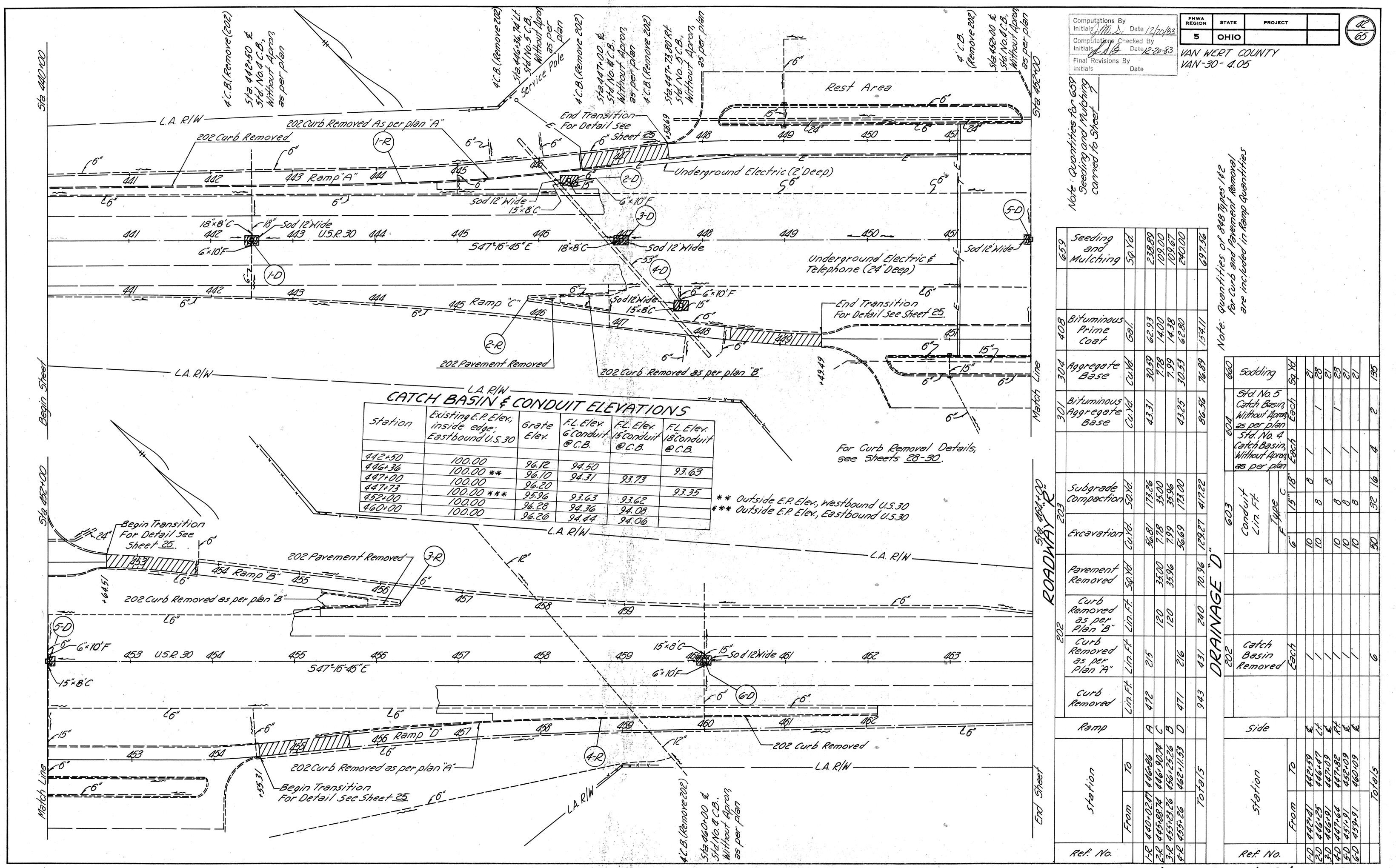
Sta. 344 +00 to Sta. 368 +00



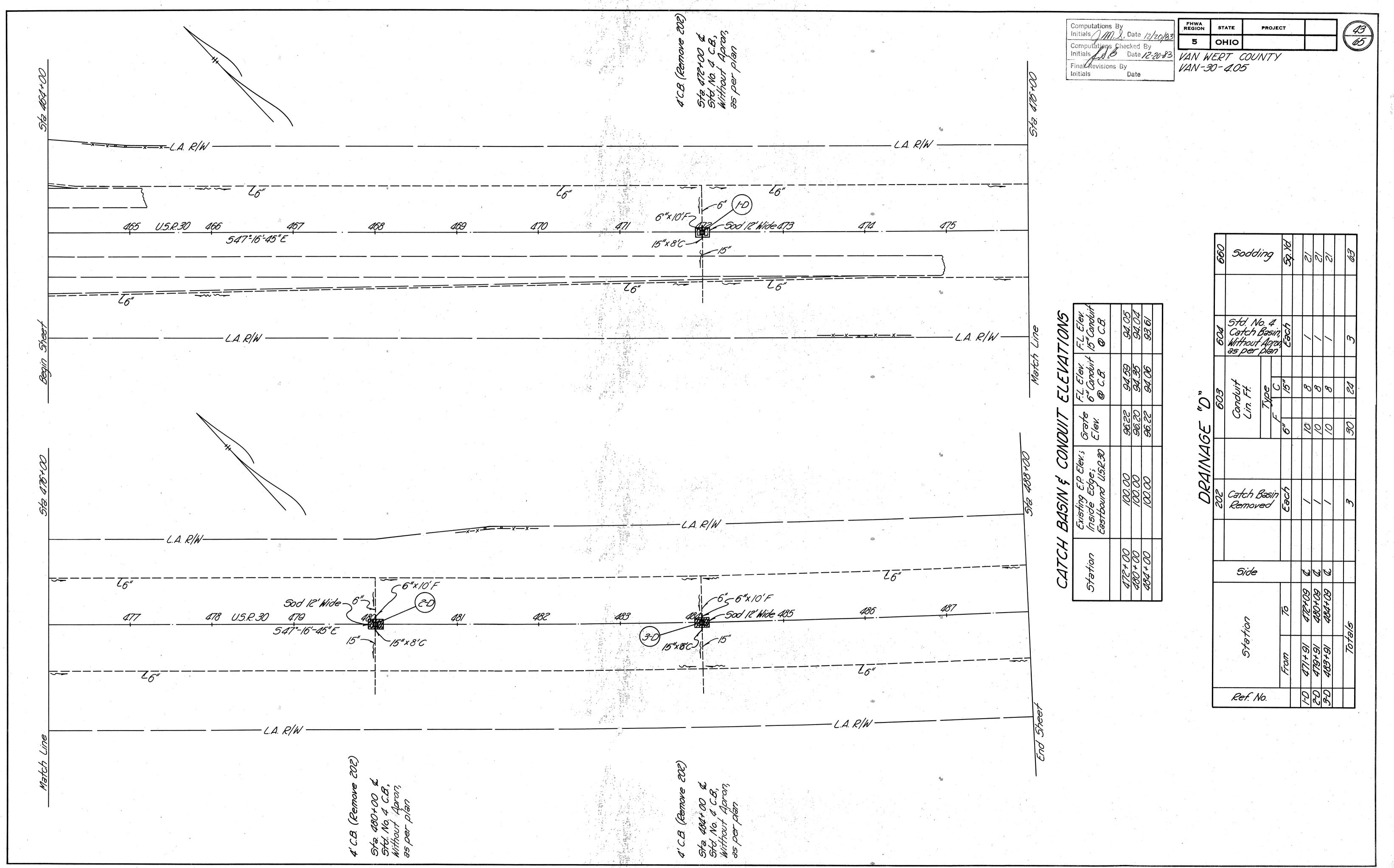


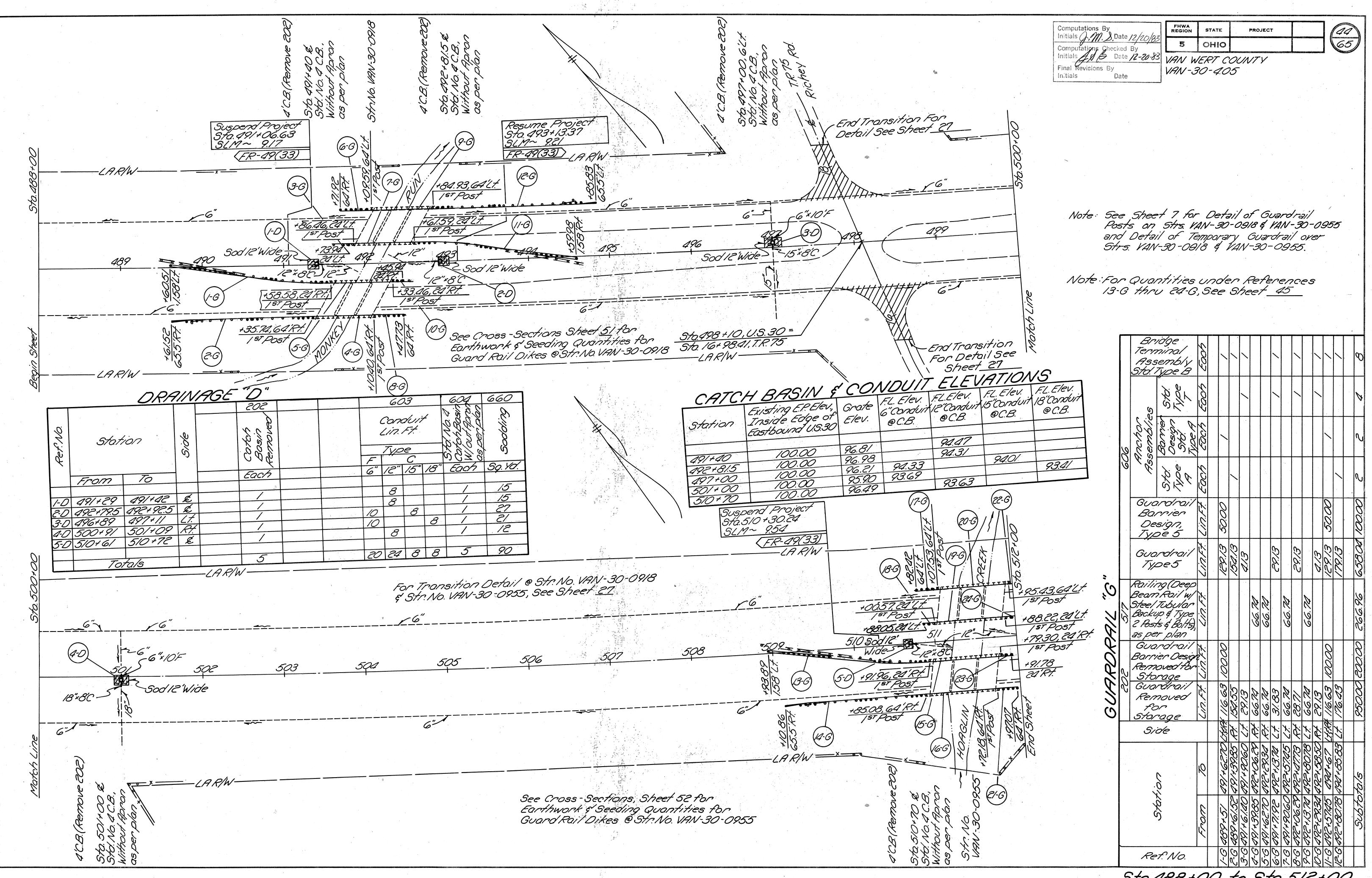
Sta.392+00 to Sta.416+00



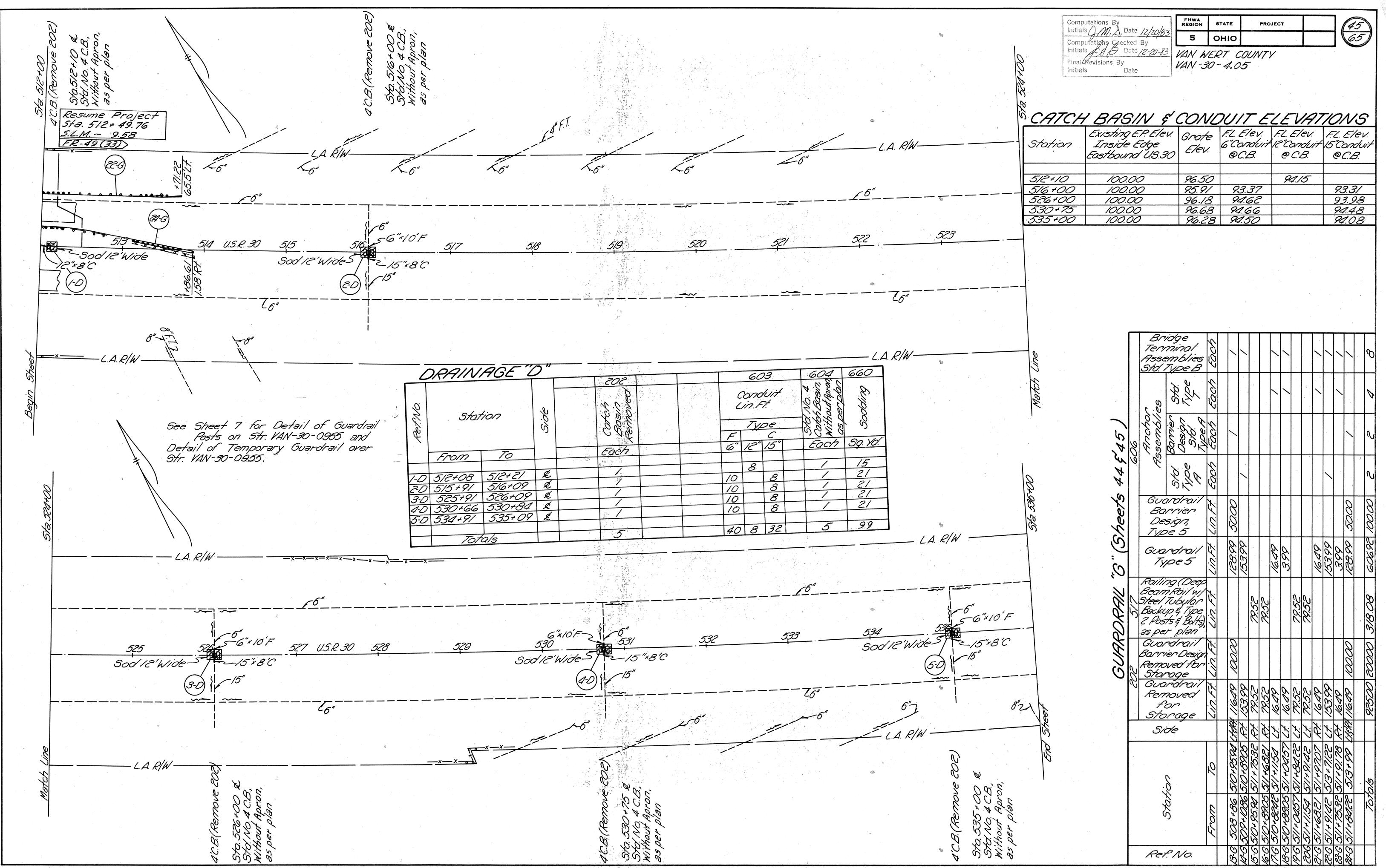


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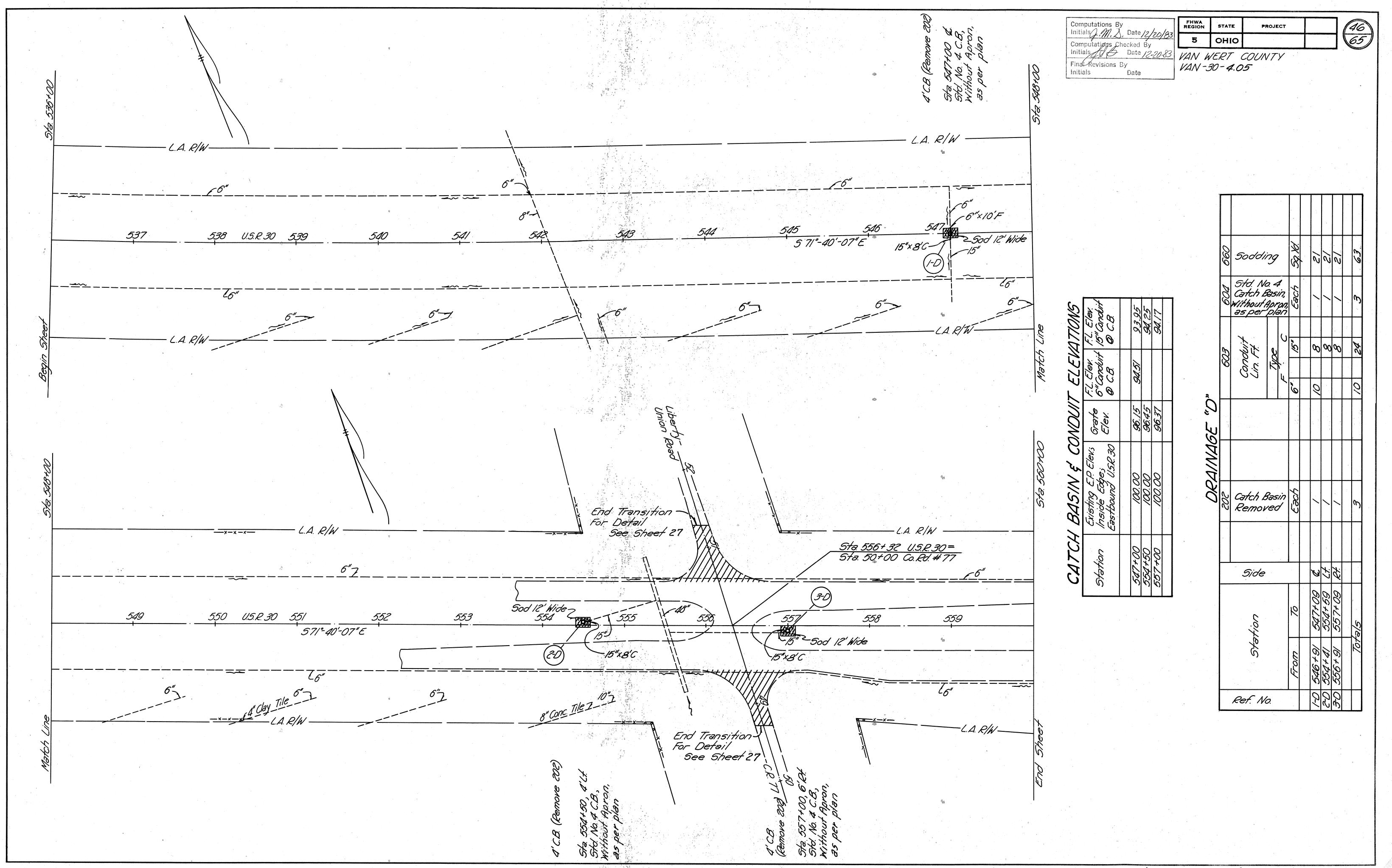


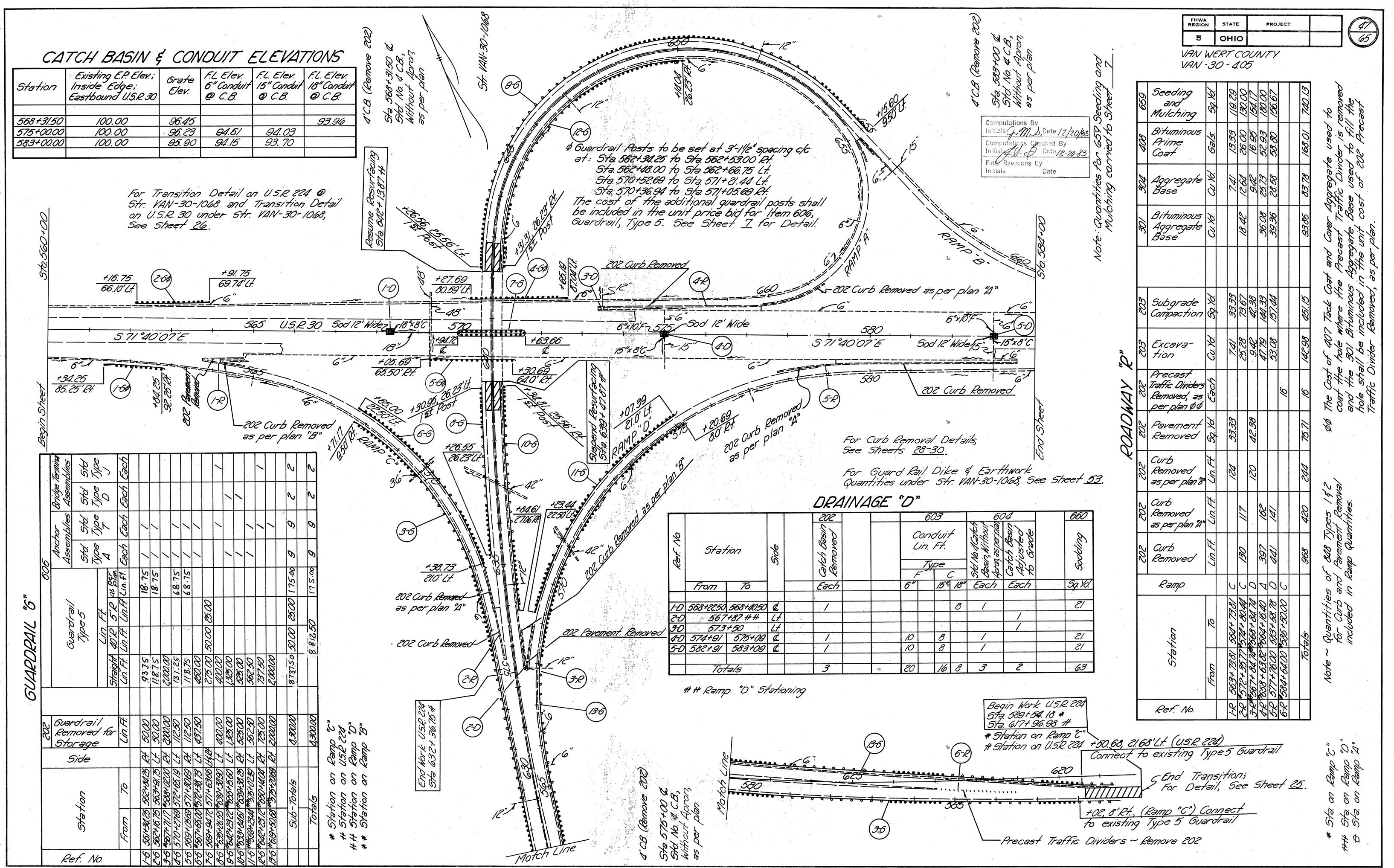


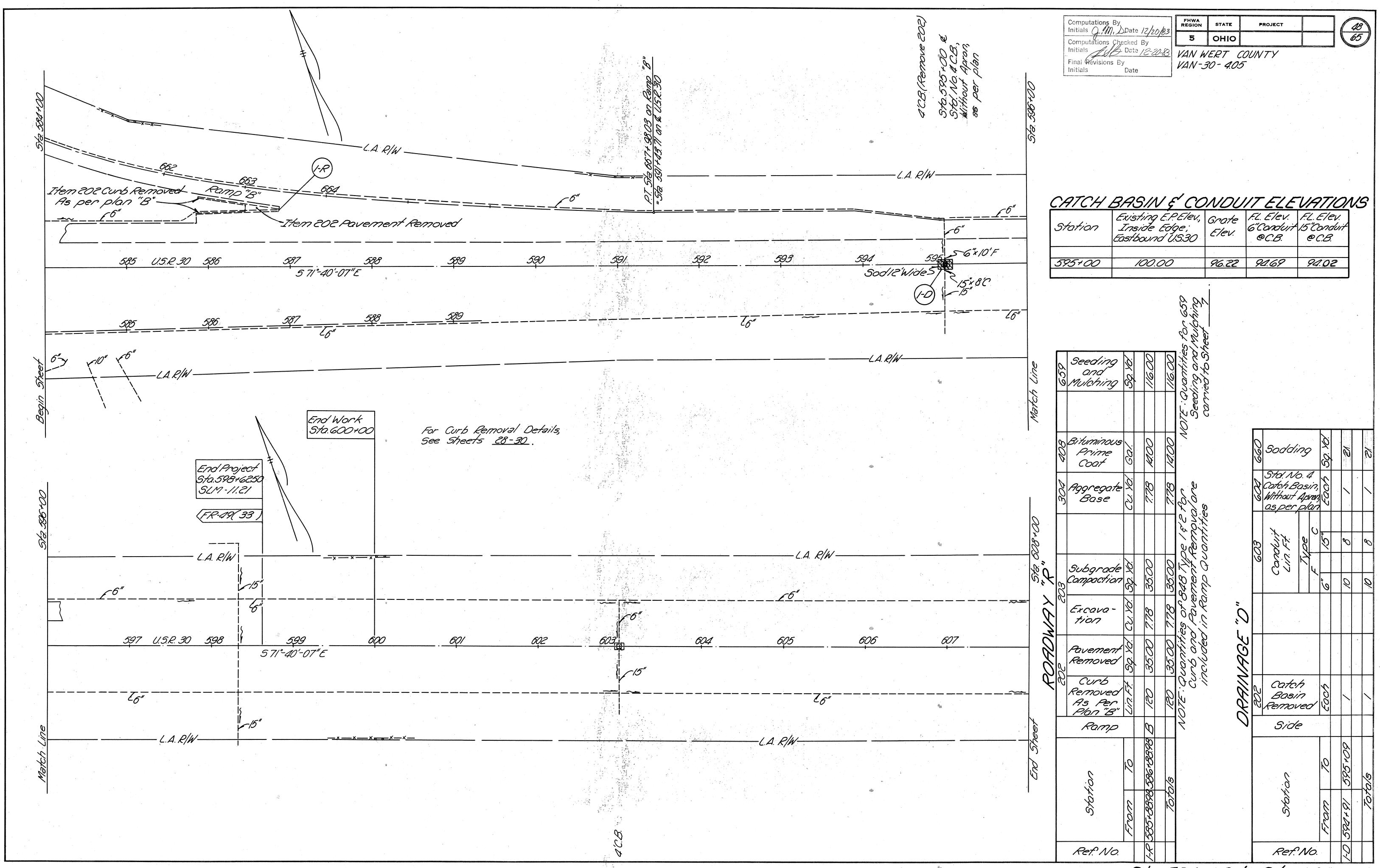
Sta.488+00 to Sta.512+00



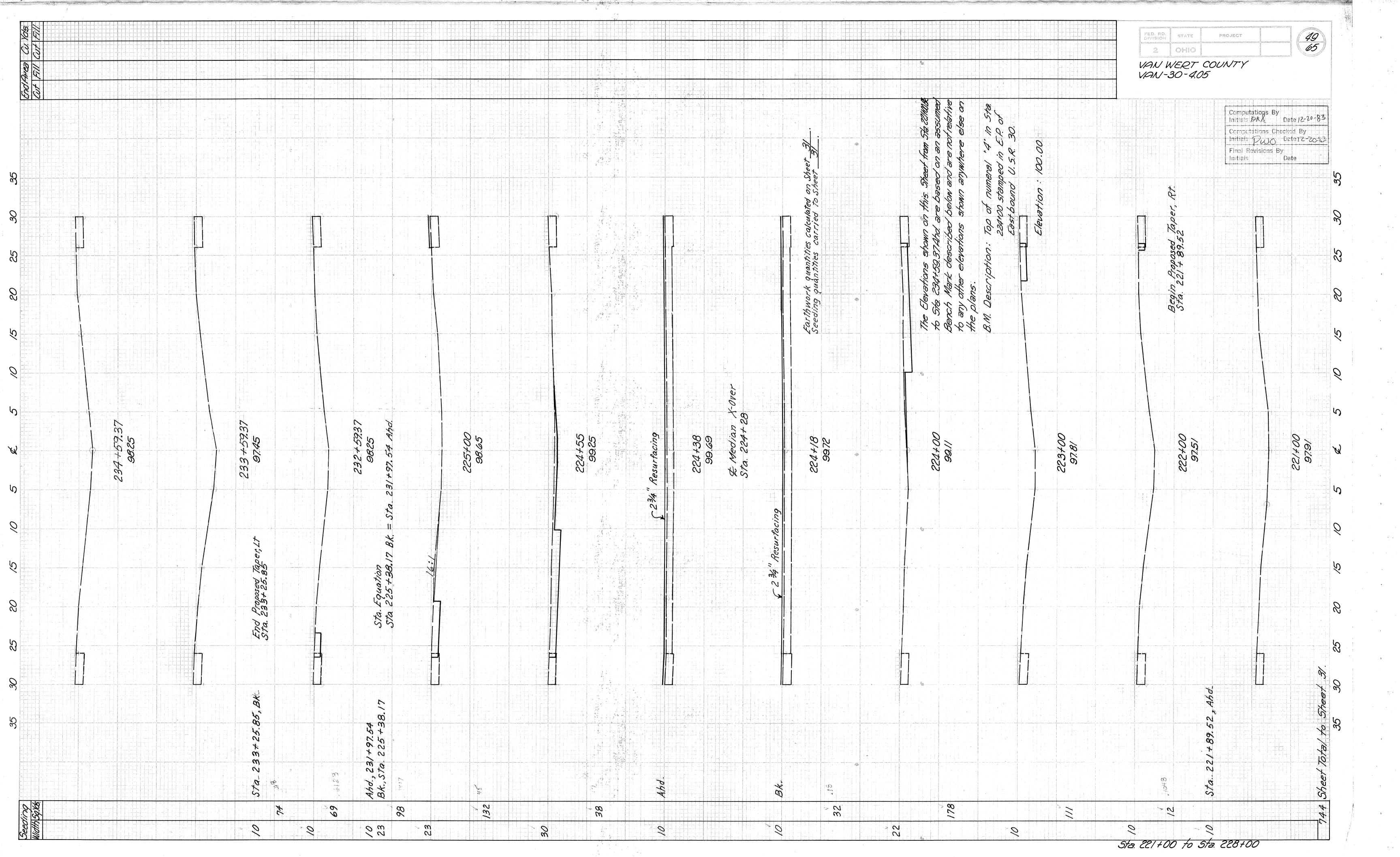
Sta. 5/2+00 to Sta. 536+00

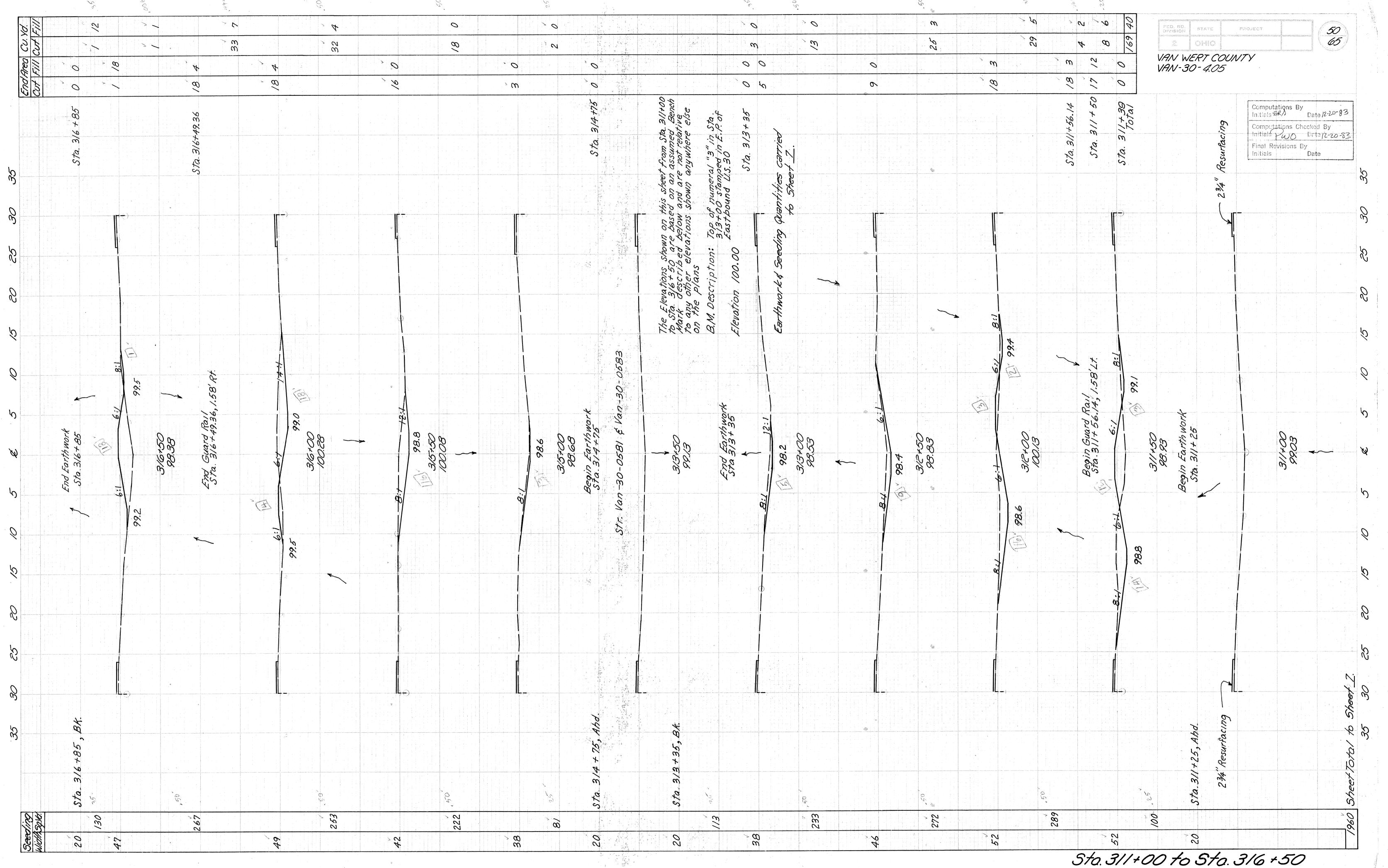


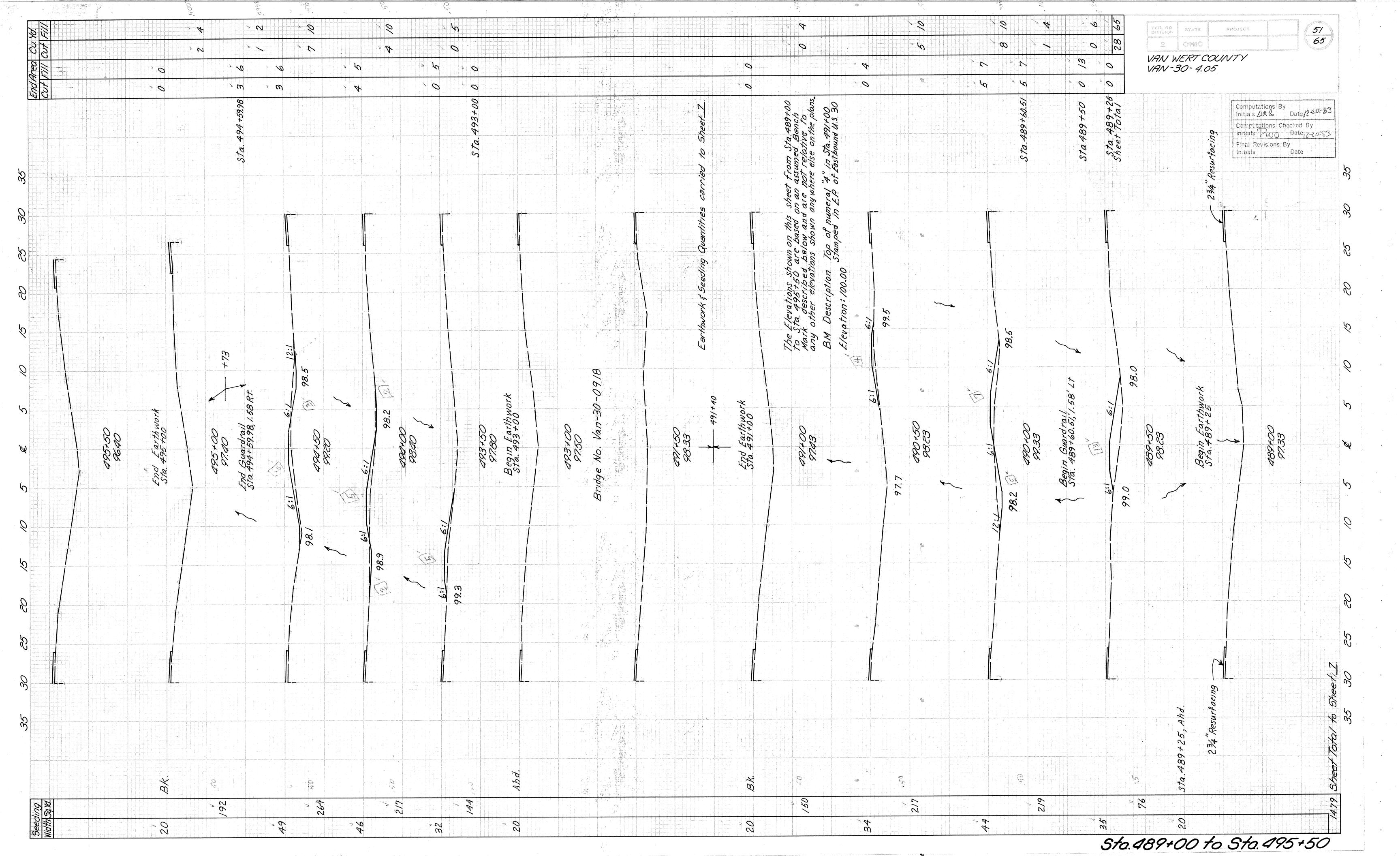


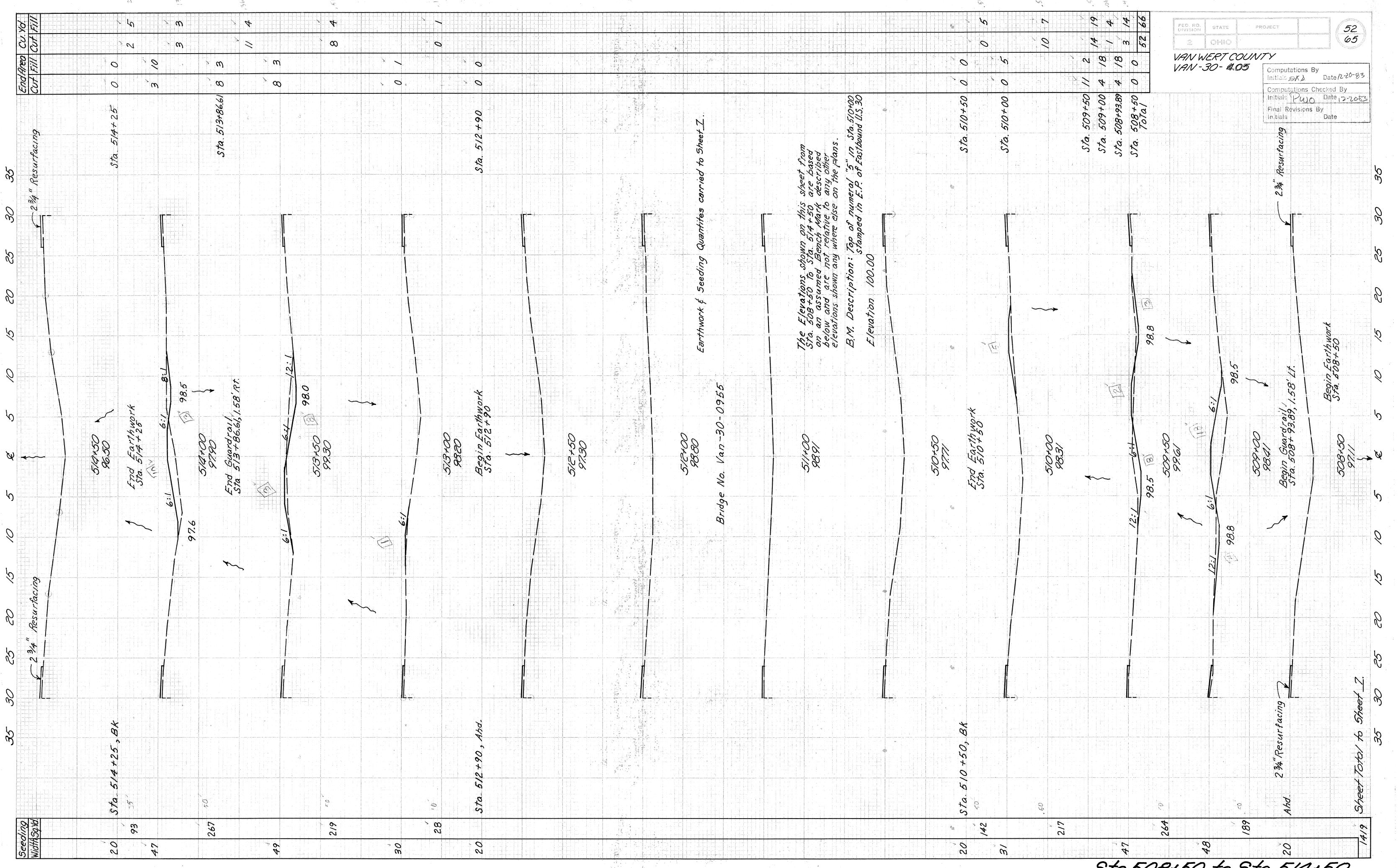


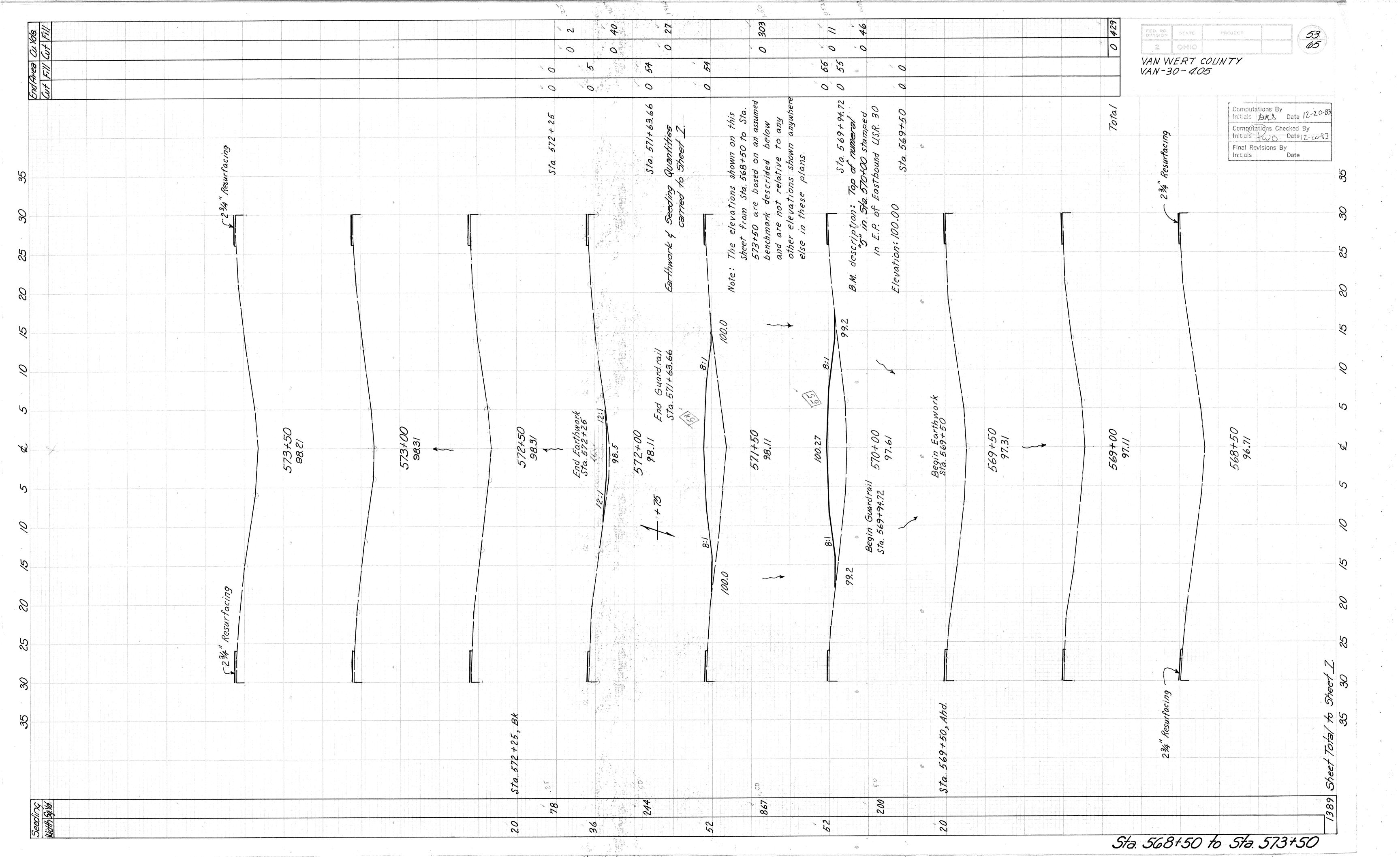
Sta.584+00 to Sta.608+00











TEMPORARY PAVEMENT MARKINGS

NOTE B

Computations By In:tials R. Q. Date 12-20-83 Computations Checked By Initials JGG Data 12-76-83 Final Revisions By Initials

FHWA STATE VAN WERT COUNTY VAN-30-4.05

PROJECT

(54) 65

GENERAL

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND WHEN NECESSARY, REMOVE TEMPORARY RETROREFLECTIVE PAVEMENT MARKINGS ON EXISTING, RECONSTRUCTED, RESURFACED OR TEMPORARY ROADS WITHIN THE WORK LIMITS, IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

THE MARKINGS SHALL BE MAINTAINED IN GOOD CONDITION DURING THE REQUIRED SERVICE PERIOD TO PROVIDE DAY AND NIGHT VISIBILITY. THE MARKINGS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER TO MAINTAIN REQUIRED VISIBILITY AND/OR REFLECTIVITY AT NO ADDITIONAL COST TO THE STATE.

MATERIALS

UNLESS OTHERWISE INDICATED ON THE PLANS, TEMPORARY PAVEMENT MARKINGS MAY BE OF PAINT, PAVEMENT MARKING TAPE OR REMOVABLE PAVEMENT MARKING TAPE (TYPE R TAPE).

PAINT SHALL COMPLY WITH 708.14 AND SHALL BE APPLIED IN ACCORDANCE WITH 621 EXCEPT AS MODIFIED HEREIN.

B. PAVEMENT MARKING TAPE

FLEXIBLE RETROREFLECTIVE PREFORMED PRESSURE SENSITIVE TAPE SHALL HAVE STRAIGHT EDGES AND BE FREE OF CRACKS. THE TAPE SHALL CONSIST OF PIGMENT AND FILLERS WITH SUFFICIENT BINDER AND PLASTICIZER TO RETAIN GLASS BEADS HAVING A REFRACTIVE INDEX MEETING THE MINIMUM REFLECTIVE INTENSITY STANDARD STATED IN THE MANUFACTURERS INFORMATION. THE TAPE SHALL BE FLEXOLITE "WET REFLECTIVE", 3M "SCOTCHLANE", OR AN APPROVED EQUAL.

THE GLASS BEADS SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE TAPE WITH SUFFICIENT SURFACE BEADS TO PROVIDE OPTIMUM REFLECTORIZATION AT ALL TIMES.

PAVEMENT MARKING TAPE SHALL COMPLY WITH THE COLOR REQUIREMENTS OF 708.14.

THE TAPE SHALL HAVE A PRECOATED ADHESIVE LAYER FOR PAVEMENT APPLICATION WITHOUT THE USE OF HEAT, SOLVENTS OR ADDITIONAL ADHESIVES. THE ADHESIVE SHALL BE SUFFICIENT TO RETAIN COMPLETE MARKINGS ON THE PAVEMENT SURFACE THROUGHOUT THE USEFUL LIFE OF THE MARKINGS.

IN ADDITION TO THE FOREGOING, ALL TEMPERATURE APPLICATION REQUIREMENTS AND OTHER APPLICABLE MANUFACTURERS MATERIAL AND APPLICATION INSTRUCTIONS SHALL BE FOLLOWED.

WHEN APPROVED BY THE ENGINEER THE CONTRACTOR MAY USE REMOVABLE PAVEMENT MARKING TAPE (TYPE R TAPE) IN LIEU OF THAT DESCRIBED ABOVE, TO FACILITATE REMOVAL OF MARKINGS.

REMOVABLE PAVEMENT MARKING TAPE (TYPE R TAPE)

THE MARKING MATERIAL SHALL BE A MIXTURE OF POLYMERIC MATERIALS, PIGMENTS, REINFORCING MEDIUM TO FACILITATE REMOVAL, GLASS BEADS THROUGHOUT THE PIGMENTED PORTION, AND A RETROREFLECTIVE LAYER OF GLASS BEADS BONDED TO THE TOP SURFACE.

THE TAPE SHALL BE PRECOATED WITH A PRESSURE SENSITVE ADHESIVE CAPABLE OF TEMPORARILY BONDING TO ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE PAVEMENT AT AN AMBIENT TEMPERATURE OF NOT LESS THAN 50° F AND RISING, AT A PAVEMENT TEMPERATURE OF NOT LESS THAN 50° F NOR MORE THAN 150° F, WITHOUT THE USE OF HEAT, SOLVENTS, AND ADDITIONAL ADHESIVES OR ACTIVATORS.

MATERIALS SHALL CONFORM TO THE COLOR REQUIREMENTS OF 708.14.

THE TAPE SHALL BE REMOVABLE FROM APSHALT AND PORTLAND CEMENT CONCRETE INTACT OR IN LARGE PIECES AT TEMPERATURES ABOVE 40° F WITHOUT USE OF HEAT. SOLVENTS, GRINDING, OR SANDBLASTING. REMOVAL SHALL NOT RESULT IN DAMAGE TO OR OBJECTIONABLE STAINING OF THE PAVEMENT.

GLASS BEADS SHALL BE PROVIDED IN A PROPER SIZE, QUANTITY AND DISTRIBUTION TO ASSURE OPTIMUM RETROREFLECTIVITY AS THE FILM WEARS. THE FOLLOWING INITIAL AVERAGE REFLECTANCE VALUES AT 86.0 ENTRANCE ANGLE AS MEASURED IN ACCORDANCE WITH THE TESTING PROCEDURES OF FEDERAL TEST METHOD 370 SHALL BE CERTIFIED:

	WHITE	YELLOW
OBSERVATION ANGLE SPECIFIC LUMINANCE	0.2 0.5 1770 1270	0.2 0.5 1310 810
(MCD/FT ²)/FC		

THE TAPE SHALL BE 3-M COMPANY'S "STAMARK, DETOUR GRADE (SERIES 57LO, 57II, 6270, 62II)" OR AN APPROVED

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER CERTIFICATION THAT THE MATERIAL SUPPLIED MEETS THE PROPERTIES SPECIFIED HEREIN.

LAYOUT

THE TEMPORARY MARKINGS SHALL BE ACCURATELY LAID OUT IN CONFORMANCE WITH 621.051 AND SHALL BE LOCATED IN A TRUE LINE ON THE CENTER LINE, LANE LINE, EDGE LINE, OR CHANNELIZING LINE WHERE PERMANENT MARKINGS WOULD LIE UNLESS OTHERWISE SPECIFIED IN THE PLANS.

PLACEMENT

TEMPORARY MARKINGS SHALL BE PLACED IN ACCORDANCE WITH AND THE FOLLOWING REQUIREMENTS LAYOUTS ON SHEETS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

TEMPORARY MARKINGS SHALL BE COMPLETE AND IN PLACE ON ALL PAVEMENT PRIOR TO EXPOSING IT TO TRAFFIC. WHEN TEMPORARY MARKINGS ARE NO LONGER NEEDED, THEY SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH 621.134 AND NECESSARY PAVEMENT MARKINGS INSTALLED BEFORE THE FLOW OF TRAFFIC IS CHANGED TO THE NEXT PHASE OR RETURNED TO ITS NORMAL

WHERE PERMANENT PAVEMENT MARKINGS ARE CALLED FOR IN THE PLANS. THE CONTRACTOR SHALL FURNISH AND PLACE THE PERMANENT MARKINGS WITHIN 30 CALENDAR DAYS FOLLOWING COMPLETION OF ALL SURFACE CCURSES IN A SINGLE ROADWAY OR PRIOR TO THE END OF THE CONSTRUCTION SEASON, WHICHEVER COMES FIRST. PERMANENT MARKINGS SHALL NOT BE PLACED OVER ANY TAPE MARKINGS

A. CLASS I MARKINGS

CLASS I MARKINGS SHALL BE AS DEFINED IN 621, EXCEPT AS FOLLOWS:

LANE LINES SHALL BE 4-INCHES IN WIDTH. TRANSVERSE LINES SHALL BE 8-INCHES IN WIDTH.

STOP LINES SHALL BE 12-INCHES IN WIDTH. CROSS WALK LINES SHALL BE 8-INCHES IN WIDTH

GORE MARKINGS SHALL CONSIST OF TWO CHANNELIZING LINES PLACED AT THE THEORETICAL OR TEMPORARY GORE OF RAMPS AND DIVERGING OR CONVERGING ROADWAYS.

THE PAINT APPLICATION RATE SHALL BE NOT LESS THAN 16 GALLONS PER MILE FOR SOLID 4-INCH LINES, 24 GALLONS PER MILE FOR SOLID 6-INCH LINES. 48 GALLONS PER MILE FOR SOLID 12-INCH LINES, AND 4 GALLONS PER MILE FOR 4-INCH DASHED LINES.

B. CLASS II MARKINGS

CENTER LINES SHALL CONSIST OF SINGLE, YELLOW 12-INCH BY 4-INCH DASHES SPACED AT A MAXIMUM OF 40-FOOT INTERVALS.

LANE LINES SHALL CONSIST OF WHITE 12-INCH BY 4-INCH DASHES SPACED AT A MAXIMUM OF 40-FOOT INTERVALS.

CHANNELIZING LINES SHALL CONSIST OF WHITE 12-INCH BY 4-INCH DASHES SPACED AT A MAXIMUM OF 20-FOOT INTERVALS.

GORE MARKINGS SHALL BE TWO CONTINUOUS, WHITE 50-FOOT BY 4-INCH LINES PLACED AT THE THEORETICAL GORE OF AN EXIT RAMP OR DIVERGING ROADWAYS.

THE PAINT APPLICATION RATE SHALL BE NOT LESS THAN 16 GALLONS PER MILE FOR GORE MARKINGS, 0.8 GALLONS PER MILE FOR CHANNELIZING LINE, AND 0.4 GALLONS PER MILE FOR LANE LINE AND CENTER LINE.

CONFLICTING MARKINGS

THE CONTRACTOR SHALL, PRIOR TO PLACING TEMPORARY MARKINGS, REMOVE ALL EXISTING CONFLICTING MARKINGS VISIBLE TO THE TRAVELING PUBLIC DURING DAYLIGHT OR NIGHTTIME HOURS IN ACCORDANCE WITH 621.134. THE COST FOR REMOVAL OF CONFLICTING MARKINGS SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.

METHOD OF MEASUREMENT

TEMPORARY PAVEMENT MARKINGS WILL BE MEASURED COMPLETE IN PLACE, BY CLASS AND MATERIAL, IN THE UNITS DESIGNATED. DASHED LINE QUANTITIES WILL BE THE LENGTH OF THE COMPLETED STRIPE, INCLUDING GAPS, INTERSECTIONS, AND OTHER SECTIONS OF PAVEMENT NOT NORMALLY MARKED, IN ACCORDANCE WITH 621.15.

TEMPORARY PAVEMENT MARKINGS WILL INCLUDE THE LAYOUT, APPLICATION AND REMOVAL OF THE MARKINGS, WHEN REQUIRED.

BASIS OF PAYMENT

PAYMENT FOR ACCEPTED QUANTITIES COMPLETE IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL

COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR PLACEMENT, MAINTENANCE AND NECESSARY REMOVAL OF THE MARKINGS.

DESCRIPTION TEMPORARY LANE LINES, CLASS I 614 28.23 MILES (PAINT, TAPE OR TYPE R TAPE) TEMPORARY CENTER LINES, CLASS _____, MILES 614 (PAINT, TAPE OR TYPE R TAPE) TEMPORARY CHANNELIZING LINES, CLASS I 614 *2834* (PAINT, TAPE OR TYPE R TAPE) TEMPORARY EDGE LINES, CLASS I, MILES 614 (PAINT, TAPE OR TYPE R TAPE) TEMPORARY GORE MARKING, CLASS II, 614 /200 LIN. FT. (PAINT, TAPE OR TYPE R TAPE) TEMPORARY STOP LINES, CLASS I, 614 LIN. FT. (PAINT, TAPE OR TYPE R TAPE) TEMPORARY CROSSWALK LINES, CLASS I, LIN. FT. 614 (PAINT, TAPE OR TYPE R TAPE) TEMPORARY LANE ARROWS, CLASS I, 614 EACH (PAINT, TAPE OR TYPE R TAPE) TEMPORARY WORD "ONLY" ON PAVEMENT, 72-INCH, EACH CLASS I, (PAINT OR TAPE) TEMPORARY TRANSVERSE LINES, CLASS I, 614 LIN. FT.

(PAINT, TAPE OR TYPE R TAPE)

ITEM 614 TEMPORARY PAVEMENT MARKING

40	cati	017	Station	LIM. Ft.
5R	30	EB	212+66.66 to 225+38.17(BK)	2543
//	//	//	231+97.54(AH)to252+90 254+14.to282+34	4/85
//	//	//	254+14 to 282+34	5640
"	11	"	283+66 to 372+66	17800
"	"	"	374+02 to 410+23	7242
11	"	11	411+70 to 497+63	17/86
"	//	//	498+96 to 555+85	11378
//	//	//	557+15 to 600+00	8570
	angus incorrent Trafement			
SR	30	WB	212+66.66 to 225+38.17(BK)	2543
"	"	11	231+97.54(AH)to253+30	4265
<i>''</i>	.//	" ,	254+58 to 28/+86	5456
11	".	//	283+19 to 372+22	17806
"	//	"	373+55 to 411+10	7510
//	11	"	412+58 to 497+21	16926
//	//	"	498+52 to 555 +48	11392
"	"	//	556+81 to 600+00	8638
	Alacola (Printerior of Printerior)			
garena aran aran da	ANGELO E SALAGRETO AUTOMOTORIO MATERIALI			
			Total Lin. Ft.	149080
			Total Miles	2823 *

Location	Station	LIN. Ft.
nt.Ramp"D"EL	3 462+12 to 464 +29	434
" " " " "	583 +60 to 586+00	480
" "B" "	360+00 to 362+29	458
nt Ramp"A" WB	437+17 to 440+02	570
	570+51 to 573+37	572
nt Romp" C" EB	573+40 to 575+00	320

Location	Station	CIM. Ft.
Ramp "C" EB	445+76 to 446+26	200
Ramp"C" EB	563+67 to 564+17	200
Romp"A" EB	337+59.87 to 338+09.87	200
Romp "B" WB	455 + 90 to 456 + 40	200
Romps D&A	632+13 to 632+62	200
Ramp"B"WB	586+50 to 587+00	200

* Quantities carried to Sheet 54.

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initials R.J.A.	Date / 9-20-83
Computations Ch	•
Initials JGG	Date12-20-83
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VAN WERT COUNTY VAN ~30-4.05

621 PAVEMENT MARKING, POLYESTER, AS PER PLAN

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621 PAVEMENT MARKING, POLYESTER, AS PER PLAN

POLYESTER PAVEMENT MARKINGS SHALL CONFORM TO 621 EXCEPT AS FOLLOWS:

ALL REFERENCES TO PAINT SHALL BE CONSIDERED TO READ-POLYESTER MATERIAL.

ITEM 621.02 IS DELETED AND THE FOLLOWING SUBSTITUTED:

MATERIALS:

MATERIAL SUPPLIED UNDER THIS SPECIFICATION SHALL BE A TWO-COMPONENT POLYESTER SYSTEM CAPABLE OF BEING APPLIED BY TRUCK-MOUNTED SPRAY EQUIPMENT AT AMBIENT TEMPERATURES DOWN TO 50° F. THE MATERIAL SHALL BE CAPABLE OF RETAINING REFLECTIVE GLASS SPHERES OF THE DROP OR SPRAY ON TYPE AND SHALL BE SUITABLE FOR APPLICATION TO ALL TYPES OF BITUMINOUS PAVEMENT EXCEPT FOR 805 RUBBERIZED SAND ASPHALT, 833 SAND ASPHALT CONCRETE USING EMULSIFIED ASPHALT, 412 ASPHALT CONCRETE, OPEN GRADED ASPHALT, OR SLURRY SEAL.

POLYESTER PAVEMENT MARKINGS SHALL BE STANDARD HIGHWAY WHITE OR YELLOW AS SPECIFIED ON THE PLANS. WHITE POLYESTER PAVEMENT MARKING MATERIAL SHALL BE FREE OF TINT AND SHALL HAVE A DAYLIGHT REFLECTANCE, AT INCIDENT ANGLES FROM PERPENDICULAR TO 45 DEGREES, WHICH IS NOT LESS THAN 80 PERCENT OF THAT OF MAGNESIUM OXIDE YELLOW POLYESTER PAVEMENT MARKING MATERIAL SHALL CONFORM, WITHIN 5 NATIONAL BUREAU OF STANDARD UNITS. TO COLOR NUMBER 33538 OF FEDERAL STANDARD 595

THE CATALYTIC COMPONENT OF THE SYSTEM SHALL BE ANY COMMERCIALLY AVAILABLE TYPE RECOMMENDED BY THE MANUFACTURER OF THE POLYESTER

THE VISCOSITY OF THE UNCATALYZED POLYESTER MATERIAL SHALL BE 80 PLUS OR MINUS 10 KREBS UNITS AT 25° C DETERMINED IN ACCORDANCE WITH ASTM:D-562-55

MARKING MATERIAL CONTAINERS OR PACKAGING SHALL BE PLAINLY MARKED WITH THE CODE NUMBER AND AN INDICATION OF THE MATERIAL COLOR. CONTAINERS SHALL ALSO BE MARKED WITH AN IDENTIFICATION NUMBER OF THE PRODUCTION BATCH OR LOT OF THE MATERIAL.

THE CATALYZED SYSTEM SHALL HAVE A NUMERICAL RATING OF NOT LESS THAN 6 WHEN TESTED FOR BLEEDING IN ACCORDANCE WITH ASTM: Declared

GLASS BEADS SHALL CONFORM TO 712.05. THE CONTRACTOR SHALL PROVIDE STORAGE FOR ALL MATERIALS AND SHALL TRANSPORT MATERIALS TO THE SITE WHERE USED. GLASS BEADS SHALL BE KEPT DRY DURING STORAGE AND PRIOR TO USE

EQUIPMENT FOR APPLYING THE POLYESTER PAVEMENT MARKING MATERIALS SHALL BE CAPABLE OF MIXING THE COMPONENTS IN PROPORTIONS RECOMMENDED BY THE MANUFACTURER AND APPLYING GLASS BEADS AT THE TIME OF LINE PLACEMENT.

THE MARKING EQUIPMENT USED SHALL BE CAPABLE OF APPLYING POLYESTER MATERIAL AT A UNIFORM THICKNESS OF NOT LESS THAN 15 MILS AT A SPEED OF NOT LESS THAN 7 MPH.

MATERIAL PREQUALIFICATION AND SAMPLING:

MARKING MATERIALS SHALL BE OF A FORMULATION PREQUALIFIED BY THE BUREAU OF TESTS AND IDENTIFIED BY A MANUFACTURER'S CODE NUMBER PREQUALIFICATION OF MARKING MATERIALS SHALL REQUIRE THAT THE MATERIALS PASS A SERVICE TEST IN ACCORDANCE WITH 708.14 SERVICE TEST. IN LIEU OF THE REQUIREMENTS OF 708.14, THE VISCOSITY AND DRYING TIME SHALL BE AS SPECIFIED HEREIN. PAVEMENT MARKING MATERIAL FURNISHED UNDER THE CODE NUMBER SHALL HAVE THE SAME COMPOSITION AND PHYSICAL PROPERTIES AS THE MATERIAL APPROVED BY PREQUALIFICATION.

THE BUREAU OF TESTS WILL FURNISH UPON REQUEST A LIST OF MANUFACTURERS AND CORRESPONDING CODE NUMBERS OF PREQUALIFIED MARKING MATERIALS.

POLYESTER PAVEMENT MARKING MATERIALS PREQUALIFIED BY SERVICE TEST MAY BE TESTED BY THE BUREAU OF TESTS TO DETERMINE FORMULATION SIMILARITY TO PREQUALIFIED MATERIAL AND COMPLIANCE WITH PHYSICAL PROPERTIES SPECIFIED HEREIN. SAMPLES OF MARKING MATERIALS MAY BE REQUESTED FROM THE CONTRACTOR OR SUPPLIER. IN LIEU OF SAMPLES, CERTIFIED TEST DATA FURNISHED BY THE MANUFACTURER OR AN INDEPENDENT TESTING LABORATORY WILL, UPON APPROVAL BY THE BUREAU OF TESTS, BE ACCEPTABLE. FAILURE OF TESTING OR CERTIFIED TEST DATA TO SHOW FORMULATION SIMILARITY TO PREQUALIFIED MATERIAL OR COMPLIANCE WITH SPECIFIED PHYSICAL PROPERTIES SHALL BE CAUSE FOR REMOVAL OF THE MATERIAL FROM THE PREQUALIFIED LIST.

ITEM 621.05 APPLICATION IS HEREBY MODIFIED AS FOLLOWS:

PARAGRAPH I THE FIFTH SENTENCE IS DELETED AND THE FOLLOWING SUBSTITUTED:

PAVEMENT MARKINGS SHALL BE APPLIED ONLY WHEN THE SURFACE IS CLEAN AND DRY AND WHEN THE AIR TEXTERATURE IS ABOVE 50° F.

PARAGRAPH 4 IS HEREBY DELETED.

THE APPLICATION RATE TABLE IS HEREBY DELETED AND THE FOLLOWING SUBSTITUTED:

THE MATERIAL SHALL BE APPLIED AT THE RATE OF 16 GALLONS PER MILE FOR A SOLID LINE OF 4 INCHES IN WIDTH TO PROVIDE A UNIFORM WET FILM THICKNESS OF 15 MILS. APPLICATION RATES FOR DASHED OR DOTTED LINES AND FOR LINES WIDER THAN 4 INCHES SHALL BE PROPORTIONAL TO THE SOLID LINE RATES.

PARAGRAPH 5 IS HEREBY MODIFIED AS FOLLOWS:

GLASS BEADS SHALL BE APPLIED TO THE WET POLYESTER SO THAT THE BEADS ARE EMBEDDED AND RETAINED IN THE POLYESTER AND UNIFORMLY COVER THE POLYESTER SURFACE. THE RATE OF APPLICATION SHALL BE 22 POUNDS OF GLASS BEADS PER GALLON OF POLYESTER MATERIAL APPLIED.

PARAGRAPH 6 IS HEREBY DELETED AND THE FOLLOWING

THE MARKING MATERIAL SHALL DRY TO A "NO-TRACKING" CONDITION IN NOT MORE THAN EORTY-FIVE (45) MINUTES

NEW ASPHALTIC CONCRETE SHALL BE IN PLACE FOR A PERIOD OF NOT LESS THAN TWO WEEKS PRIOR TO APPLICATION OF POLYESTER PAVEMENT MARKINGS.

PAVEMENT MARKINGS SHALL NOT BE PLACED ON EXISTING PAVEMENT SURFACES THAT SHOW VISIBLE EVIDENCE OF CRACKING, CHIPPING, SPALLING, OR FAILURE OF UNDERLYING BASE MATERIAL AS DETERMINED BY THE ENGINEER

TEM 621.051 LAYOUT AND PREMARKING IS MODIFIED BY THE FOLLOWING ADDITIONAL REQUIREMENTS.

- (A) THE GAPS NOT MARKED AS A RESULT OF TEMPLATE USE SHALL BE FILLED WITH MARKING MATERIAL AFTER TEMPLATE REMOVAL
- B) "T" MARKING OF CENTERLINE NO PASSING ZONES SHALL BE CONSIDERED INCIDENTAL TO APPLYING THE LINE

ITEM 621.14 DEDUCTION FOR DEFICIENCY SHALL BE MODIFIED BY THE FOLLOWING ADDITIONAL REQUIREMENTS

A DAY'S APPLIED QUANTITY OF LESS THAN 5 GALLONS OF MARKING MATERIAL MAY BE INCLUDED IN THE NEXT DAY'S APPLIED MARKINGS FOR THE PURPOSE OF COMPUTING MARKING MATERIAL AND BEAD APPLICATION RATES.

THE CONTRACTOR SHALL PROVIDE A CALIBRATED MEASURING DEVICE TO MEASURE THE POLYESTER RESIN IN THE TANKS.

THE QUANTITY OF POLYESTER MARKING MATERIAL USED SHALL BE DETERMINED BY MEASURING THE POLYESTER RESIN IN THE TANKS BEFORE AND AFTER MARKING MATERIAL IS APPLIED. THE CONTRACTOR SHALL PERMIT THE ENGINEER TO TAKE MEASUREMENTS WHENEVER REQUESTED. THE MARKING MATERIAL APPLICATION RATE SHALL BE DETERMINED BY DIVIDING THE TOTAL GALLONS USED BY THE APPROPRIATE MARKING UNIT OF MEASURE. ANY DETERMINATION OF PAY DEDUCTION RESULTING FROM SHORTAGES IN MARKING MATERIALS SHALL BE BASED ON THE MEASUREMENTS OBTAINED BY THIS METHOD. THE AMOUNT OF GLASS BEADS APPLIED SHALL BE ASCERTAINED BY THE ENGINEER BY OBSERVATION AND FROM INFORMATION SUPPLIED BY THE CONTRACTOR AS TO QUANTITY USED.

ITEM 621.16 BASIS OF PAYMENT SHALL BE MODIFIED BY ADDING THE WORDS "POLYESTER, AS PER PLAN" TO EACH ITEM DESCRIPTION

EQUIPMENT

THE CONTRACTOR'S STRIPER SHALL BE EQUIPPED WITH AN ODOMETER GRADUATED TO 1/100 OF A MILE. THE ENGINEER SHALL DETERMINE THE DEGREE OF ACCURACY OF THE CONTRACTOR'S ODOMETER AND ESTABLISH AN ADJUSTMENT FACTOR AS MAY BE REQUIRED TO ACCURATELY DETERMINE THE PAY ITEM QUANTITIES. THE ENGINEER SHALL PERIODICALLY CHECK THE ODOMETER OPERATION TO ASSURE MAINTENANCE OF ACCURATE MEASUREMENTS.

FAILURE OF THE ODOMETER TO FUNCTION PROPERLY SHALL BE CAUSE TO STOP THE WORK UNTIL THE ODOMETER IS MADE TO FUNCTION PROPERLY. IF MEASUREMENT OF THE WORK HAS TO BE PERFORMED THE DEPARTMENT, THE COST OF THE DEPARTMENT LABOR AND EQUIPMENT PLUS 10 PERCENT SHALL BE DEDUCTED FROM PAYMENT DUE THE CONTRACTOR FOR THE WORK.

THE PAVEMENT MARKING EQUIPMENT SHALL BE EQUIPPED WITH A PRESSURE REGULATED AIR JET WHICH SHALL REMOVE ALL DEBRIS FROM THE PAVEMENT IN ADVANCE OF THE APPLICATOR GUN. THE AIR JET SHALL OPERATE WHEN MARKING MATERIAL IS BEING APPLIED AND SHALL BE SYNCHRONIZED WITH MARKING MATERIAL APPLICATION OR REMAIN "ON" AT ALL TIMES.

THE CONTRACTOR SHALL USE AN ACCURATE DASHING MECHANISM, CAPABLE OF BEING EASILY ADJUSTED, TO RETRACE EXISTING LANE OR CENTERLINE MARKINGS AS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

PROVISIONS FOR THE DESCRIBED SPECIAL EQUIPMENT BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE APPLICATION.

GH: jt5

AUGUST 13, 1979 NOVEMBER 18,1980 JANUARY 8,1982 JANUARY 21, 1983

ITEM 621 TRAFFIC ZONE PAVEMENT MARKING \$\forall ITEM 847 PREFORMED PLASTIC PAVEMENT MARKING

FHWA REGION	STATE	PROJECT	57
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VAN WERT COUNTY VAN-30-4.05

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Location Station	White	Ye/lov
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" " " " 254+14 to 282+34	2820	
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" " " 338+09.87 to 362+29	processor control of the control of	THE PROPERTY OF THE PROPERTY O
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" " " 4/1+70 to 437+84	2614	-
" " " 446+26 to 464+29	1803	
" " " 474+12 to 497+63	235/	
" " " 498 +96 to 555 +85	5689	
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" " " 444+75 to 455+90	1115	
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" " " 498+52 to 555+48	5696	
" " " 556+8/ to 56/+38	457	2
" " " 573+37 to 586+46	1309	
" " " 594+92 to 600+00	508	
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Exit Ramp'C"EB 437+84 to 449+50	1166	
" " " 446+26 to 449+50		324
Ent. Romp"D"EB 454+54 to 474+12 """" 454+54 to 462+12	1958	758
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Exit Ramp"B" WB 452+65 to 464+30 " " " 452+65 to 455+90	1/65	325
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	1/65	325
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" " " " 452+65 to 455+90 Ent. Ramp "A" WB 428+03 to 447+59 " " " " 444+75 to 447+59 Exit Ramp "C" EB 557+27 to 589+26.68	1956	284
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" " " " 452+65 to 455+90 Ent. Ramp"A"WB 428+03 to 447+59 " " " 444+75 to 447+59 Exit Ramp"C" EB 557+27 to 589+26.68 " " " 584+58 to 587+30 Ent Ramp"A" WB 56/+38 to 573+37 (M " " 573+37 (ML) = 664+16.48 " " " 6/8+28 to 664+16.4 Ent Ramp"O" EB 564+74.72 to 664+16.4 Ent Ramp"O" EB 564+74.72 to 595+58. " " " " 568+19 to 583+58.76	1956 3200 1/99 1/99 1/99 1/99 1/99 1/99 1/99 1/	284
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" " " " 452+65 to 455+90 Ent. Ramp"A"WB 428+03 to 447+59 " " " 444+75 to 447+59 Exit Ramp"C" EB 557+27 to 589+26.68 " " " 584+58 to 587+30 Ent Ramp"A" WB 56/+38 to 573+37(M) " " " 573+37(M)=664+164(R) " " " " 6/8+28 to 664+16.4 " " " " 6/8+28 to 664+16.4 Ent Ramp"O" EB 564+74.72 to 595+58. " " " " 568+19 to 583+58.78 Exit Ramp"B" WB 632+68.88 to 667+98.0 " " " " 59/+43.7(ML) to 594+9	1956 3200 1/99 1/99 1/99 1/99 1/99 1/99 1/99 1/	284 272 4588 1540
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	4	4"E	DO	SE LINE (CONTII	VUEL	リ
7	000	tion	O CONTRACTOR CONTRACTO	Station	White	Yellov
5R	30	EB	<i>LS</i>	212+66.66 to 225+38.17(BK)		1272
//	//	//	11	231+97.54(AH)16253+48	A A COLOR SOCIETA SER COLOR SOCIETA SER SOCIETA SER SOCIETA SER SOCIETA SER SOCIETA SER SOCIETA SER SOCIETA SE	2/5/
//	//	11	11	253+97 to 282+53		2856
//	11	11	11	283+02 to 372 +87		8985
"	"	//	//	373+34 to 41/+20		3780
"	//	"	//	9//+58 to 497 t85	COCCUSION AND COCCUSION CONTRACTOR CONTRACTO	8627
"	//	"	11	498+34 to 556+10		5776
//	11	"	11	556+55 to 600+00		4345
<u>5R</u>	<i>30</i>	WB	<u>(5</u>	212+66.66 to 225 + 38.17(BK) 231+97.54(AH) to 25 3 +48		1272
//	"		<i>"</i>	253+97 to 282+53		2850
			//	283+02 to 372+87		8985
	//	<i>''</i>	//	373+34 104/1+20		3780
	//	//	<i>''</i>	4//+58 to 497+85		8621
	"	//	//	498+34 to 556+10		5776
//	//			556+55 to 600+00		4345
TR.	192	`SB	<u>'</u>		65	
//	"	NB	Rt.	19+12 to 19+80	61	and the second
CONTRACTOR MATERIAL CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO	MANUAL SERVICE	Matter Walker in comp	***************************************			9V 1
				Continued		<i>t</i> 1

Location	Station	Lin. Ft.
GR 30 ML EB	212+66.66 to 225+38.17(BK)	1272
n	231+97.54/AHI to 252+90	2092
	254+14 to 282+34	2820
11 11 11 11	283+63 to 372+66	8903
7 11 11 11	374 tO2 to 410 + 23	3621
// // // //	411+70 to 497+63	8593
11 11 11 11	498+96 to555+85	5689
11 11 11 11	557+15 to 600+00	4285
	30,770,7000.00	
		4 de 1
SR 30 ML WB	212+66.66 to 225+38.17(BK)	1272
" " " " " " " " " " " " " " " " " " "	23/+97.54(AH)to 253+30	2/32
h 11 11 11	254+58 to 28/+86	2728
· · · · · · · · · · · · · · · · · · ·	283+19 to 372+22	8903
11 11 11 11	373+55 to 41/+10	<u>3755</u>
17 17 17 17	412+58 to 497+21	8463
	498+52 to 555+48	5696
17 11 11 11	556+81 to 600+00	43/9
Exit Ramp "C" EB	441+20 to 443+50	230
Ent. Ramp "A" WB	432+60 to 437+17	457
Ent, Romp"D" EB	464+29 to 467+45	3/6
Exit Ramp "B" WB	958+45 to 460+87.5	243
Fxit Ramo"C"FB	559460.5 to 560+96	136
Ent. Romp"A"WB	568+42 to 570+60	218
		,
Ent. Ramp"0"EB	586 t00 to 589 t00	300
Exit Ramp"B"WB	589+00 to 591+50	250
	Total Lin. Ft.	76693
	Total Miles	14.53

Location	Station	Lin Ft.
Exit Romp"C"EB	443+50 to446+26	552
Ent. Romp"D"EB	462+12 to464+29	217
Exit Ramp"C" EB	560+96 to 564+17	642
Ent. Ramp"D"EB	583+60 to 586+00	240
Exit Romp"A" EB	335+00 to 338+09.87	620
Ent. Ramp"B"EB	360+00 to362+29	229
Exit Ramp"B"WB	455+90 to 458+45	510
Ent.Romp"A" WB	437+17 to 440+02	285
Ent. Ramp "A" WB	570+60 to 573+37	277
Ent. Romp "A" WB	661+38.08 to 664+16.40	278
Exit Ramp"B" WB	586+50 to 589+00	<i>∞ 500</i>
Exit Romp"B" WB	632+68.88 to 634+09	280
		<
•	Total Lin. Ft.	4630

4" DOUBLE	E YELLOW CEN	TERLINE
Location	Station	LIN Ft.
Exit Ramp"C"EB	587+70 to 589+26.68	157
TR 192 NB	19+13.25 to 19+70	57
" " 5B	21+09 to 21+65.75	57
SR 49 NB	16+66 to 17+22	. 56
" " SB	18t61 to 19t17.75	57
TR 65 NB	16+76 to 17+32	56
" " 5B	18+70 to 19+24.75	· 55
CR 168 NB	12+81 to 13+38	57
" " 5B	14+76 to 15+32.75	57
CR 75 NB	15+73 to 16+20	47
" " 5B	17+70 to 18+26	56
CR 77 NB	18+74 to 49+31	57
" " 5B	50+67 to 51+23.75	57
ALL CONTRACTOR A MARKAGE AND A		
4	Total Lin. Ft.	826

4"EDG	E LINE (CONTI	NUEL	2)
Location	Station	White	Yellow
SR49NB Rt.	16+57 to 17+08	68	
" " Lf.	16+64 to 16+85	21	
" " 5B Rt.	18+98 to 19+18	20	THE RESERVE THE PROPERTY OF TH
" " Lt.	18+6/ 40/9+25	62	,
TR65 NB Rt.	16+68 to 17+20	61	
	16+75 to 16+96	21	
" " 5B Rt.	19+09 to 19+30	2/	
	18+82 to 19+38	60	
CR168 NB Rt.	12+78 to 13+46	71	
" " SB Ct.	14+69 to 15+32	64	~ .
			\ \
CR 75 NB Rt.	15+64 to 16+11	51	
	15+71 to 15+90	19	
" " 5B Rt	18+05 to 18+25	20	
" " " 1.	17+81 4018+32	60"	
		*	
CR 77 NB Rt.	48+67 to 49+21	63	
" " Lf.	48+74 to 48+91	17	
	5/+08 to 5/+25	17	
" " " Lf.	50+78 to 5/+3/	62	
	Total Lin.Ft.	96911	
	Grand Total Lin. Ft.	18633	
	Total Miles	35.2	9
· · · · · · · · · · · · · · · · · · ·	and a complete and a complete figure.	1 -1	

847-24"	STOP LINE	
Location	Station	LIM. Ft.
TR 192 5B	2/107	<i>30</i>
SR 49 SB	17+24	40
" " NB.	18+59	40
TR 65 NB	17134	37
" " 5B	18+68	40
CR 168 NB	13+40	22
" " 5B	14+74	21
TR 75 NB	16+22	40
" " SB	17+68	40
CR 77 NB	49+33	<i>35</i>
" " 5B	50+65	<i>38</i>
TR192 NB	19+72	· 30
	Total Lin. Ft.	4/3
, · · · · · · · · · · · · · · · · · · ·	Total Sq. Ft.	826 *
* Que	antity carried to Sheet	<u> 59</u> .

24" BROAD TRANSVERSE LINE				
Location	Station	White Yellow		
Exit Romp"C" EB	443 +50 to 446 +26	532		
11 11 11 11	560+96 to 564+17	7//		
" " "B" WB	455+90 to 458+45	451		
11 11 11 11	586+53 to 589+00	4/4		
11 11 11 11	632+68.88 to 634+09	158		
Ent Ramp "D" WB	63/+99 to 632+63	47		
Exit Romp "A" EB	335+00 to 338+09.87	664		
	Total Lin. Ft.	2917		

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PAVEMENT MARKING DETAIL PAINTED ISLAND DETAIL (224 INTERCHANGE)

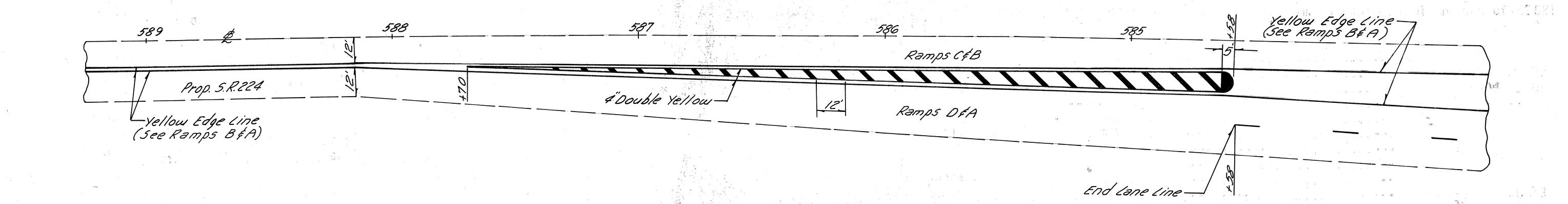
FHWA REGION STATE 58 65

Computations Checked By Initials JGG Date 2-20-83

Final Revisions By Date

Date





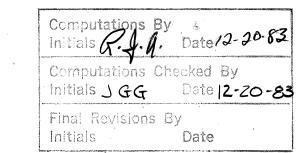
24" BROAL	O TRANSVERSI	E LINES
Location	5†a†ion 584+58 to 587+70	Yellow
Ramps C, D & B, A	584+58 to 587+70	162
	Total Lin.Ft.	162

DOUBLE Y	IELLOW CENTL	ER LINE
Cocation	Station	Lin. Ft.
Ramps C&B	584+58 to 587+70	3/2
" DÉA	584+58 to 587+70	312
	8 - 7 8 - 7 8 - 7	
	Total Lin Ff	624

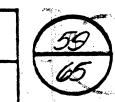
LOCATION STATION SQ. FT. RAMPS CD & B. A. 584+58 TO 584+63 40 TOTAL	ISL	AND MARKI	NG(YELLOW)
RAMPS C.D & B. A 584+58 TO 584+63 40 TOTAL	LOCATION	STATION	SQ. FT.
7,7,7,7,50,7,5,7,5,7,5,7,5,7,5,7,5,7,5,7	RAMPS C,D &B,A	584+58 TO 584+63	40 TOTAL

GENERAL NOTES

847 PREFORMED PLASTIC PAVEMENT MARKINGS



FED RD DIVISION	STATE	PROJECTECT	
5	OH10		



VAN WERT COUNTY VAN-30-405

The layout and premarking lines shall be approved by the Engineer before marking operations are started. Layout and premarking shall be incidental to application of markings.

Placement Tolerance

Line placement tolerance shall conform to 621.052.

Marking Descriptions

Markings applied under this specification shall conform to applicable portions of \$212 as follows:

Edge Lines.				621.06
Lane Lines			<i>/</i>	621,05 and .07
Center Lines			••••••	621.05 and .08
Channelizing lines			• • • • • • • • • • /	X621.∪9
Ston lines and Crosswalk Li	nes			621.10
Transverse Vines			• • • • • • • •	621.11
(sland Marking	••••••••	• • • • • • • • • • • • • • • • • • • •		621.131
Lane Arrows	<i>X</i> ••••••	•••••••	••••	621.132
Word on Pavement	•••			621.05 and .133
Dotted Lines	shall conform	to		

* RAILROAD SYMBOL ON PAVEMENT

The standard Railroad Symbol shall consist of the following items:

- 1. One white 16" crossbuck and the white letters "RR". The size of these crossbucks shall be 7', 8' and 10', as specified.
- 2. Two 24" solid white transverse lines; one ahead of and one behind the crossbuck.
- 3. One 24" solid white stop line in advance of the railroad crossing.

Where the word "paint" appears in 621 the words "preformed plastic pavement marking material" shall be substituted, and application rates shall not apply to preformed plastic material.

Method of Measurement

Preformed plastic pavement markings will be measured complete in place in the units designated for preformed plastic pavement marking, installed, inlaid.

Basis of Payment

Payment for accepted quantities complete in place will be made at the contract unit prices bid and shall be full compensation for all labor, incidentals and equipment necessary to inlay the preformed plastic pavement markings.

Item	Unit	Description	•	
847	826 Sq. Ft.	preformed plastic pavement marking,	installed,	inlaid

General

The installation of preformed plastic pavement markings shall conform to Supplemental Specification 847 AND AS REQUIRED HEREIN.

Description

This work shall consist of the application of Department furnished preformed plastic pavement marking material on newly resurfaced pavement surfaces by rolling it into the new surface during the finish rolling operation, in accordance with the lines and dimensions shown on the plans or as described herein.

The Contractor shall furnish all equipment necessary for the required pavement preparation and marking application. All pavement markings shall conform with the requirements of the Ohio Manual of Uniform Traffic Control Devices.

The Engineer will designate the limits of the highway section being marked and will furnish a log or schematic and details of the type and location of markings to be applied at the pre-construction conference.

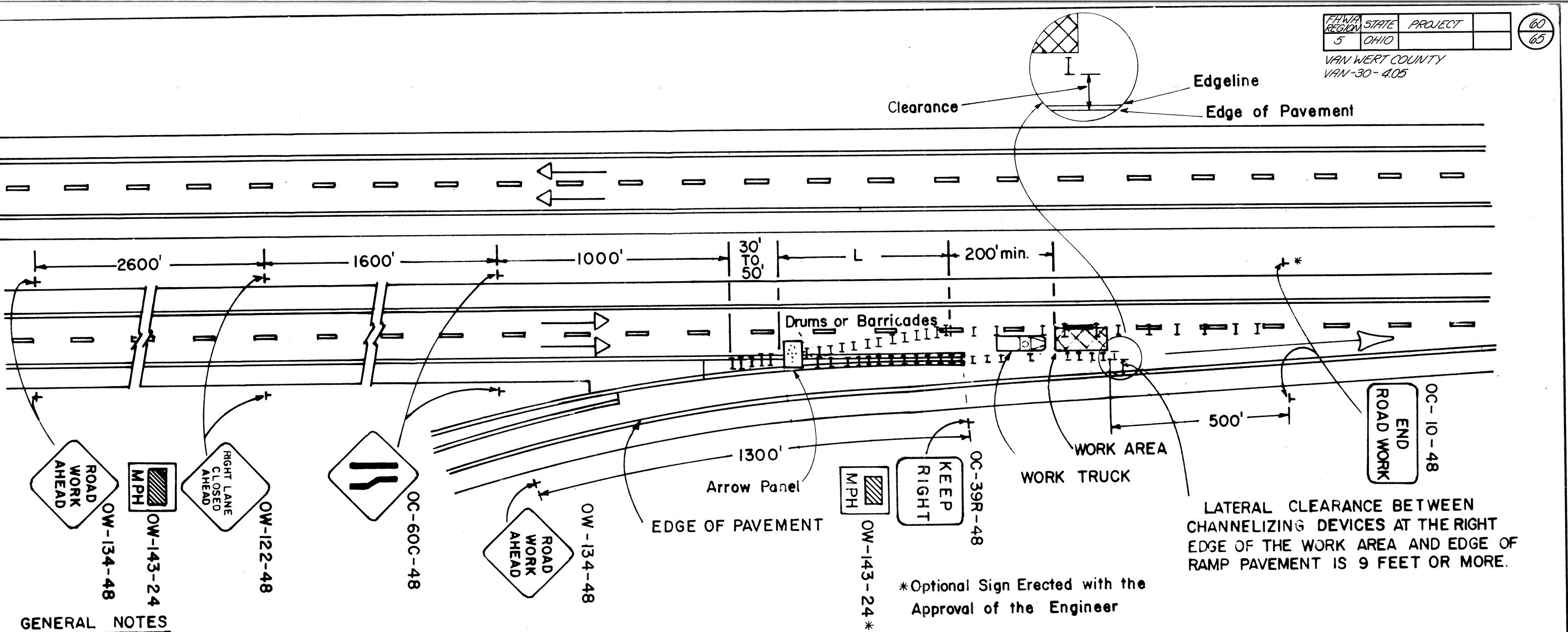
Materials

The Contractor shall be informed at the pre-construction conference of the location of the Department furnished preformed plastic pavement marking material. The Contractor shall be responsible for all arrangements necessary to facilitate the pick-up of Department furnished preformed plastic pavement marking material at this location for transport to the work site or the Contractor's storage facility. The Contractor shall notify the Engineer in writing at least 5 calendar days prior to pickup of the preformed plastic pavement marking material. The Contractor shall provide receiving tickets to the Department for all preformed plastic pavement marking material received. Procedures for documenting receipt will be furnished to the Contractor at the pre-construction conferences. The Contractor shall store and transport the preformed plastic pavement marking materials to the site where used.

Layout and Premarking

The Contractor shalf lay out the location of all lines, words and other symbols to assure their proper placement. When applying longitudinal or transverse lines, the Contractor shall use construction joints or premarking to guide his application equipment.

Premarking shall be located from schematic forms provided at the pre-construction conference.



- I. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL BE EMPLOYED WHEN THE LATERAL CLEARANCE BETWEEN THE CHANNELIZING DEVICES AT THE RIGHT EDGE OF THE WORK AREA AND
 THE EDGE OF THE RAMP PAVEMENT IS 9 FEET OR MORE.
 WHEN THE CLEARANCE IS LESS THAN 9 FEET, THE TRAFFIC
 CONTROL ON "LANE CLOSURE AT ENTRANCE RAMP: PLAN B"
 SHOULD BE USED, OR THE RAMP SHOULD BE CLOSED, OR ALLOWING
 RAMP TRAFFIC TO USE THE BERM SHOULD BE CONSIDERED
 PROVIDED THE OPERATION IS "SHORT" IN DURATION, WHEN THE RAMP
 IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.
- 2. THIRTEEN (13) DRUMS OR BARRICADES SHALL
 BE USED TO FORM THE LANE TRANSITION TAPER
 IN ADVANCE OF THE WORK AREA. FIVE (5)
 CHANNELIZING DEVICES SHALL BE USED TO
 FORM THE TAPER ON THE SHOULDER.
 DRUMS OR BARRICADES SHALL BE SPACED
 AT 50 FOOT CENTERS. CONES MAY BE
 SUBSTITUTED FOR BARRICADES OR DRUMS FOR
 THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.
- 3. RAMP SIGNS SHALL BE DUAL MOUNTED ON MULTILANE RAMPS.

- 4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH TC-35.10.
- THE WORK TRUCK SHOWN AT THE BEGINNING OF
 THE WORK AREA SHALL BE IN PLACE AND
 UNOCCUPIED WHENEVER MEN ARE WORKING
 WITHIN THE WORK AREA. THIS TRUCK SHALL
 BE MOVED FROM THE PAVEMENT WHENEVER
 WORKMAN ARE NOT IN THE WORK AREA.
 OTHER PROTECTIVE DEVICES MAY BE USED IN
 LIEU OF WORK TRUCK SHOWN WHEN APPROVED BY
 THE ENGINEER. A TRUCK MOUNTED IMPACT
 ATTENUATOR MAY BE EMPLOYED.
- 6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES.

 MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULAE:

 $L = S \times W$ FOR SPEEDS OF 45 OR MORE. $L = WS^2/60$ FOR SPEEDS OF 40 OR LESS.

WHERE:

L = MINIMUM LENGTH OF TAPER.

S = NUMERICAL VALUE OF POSTED

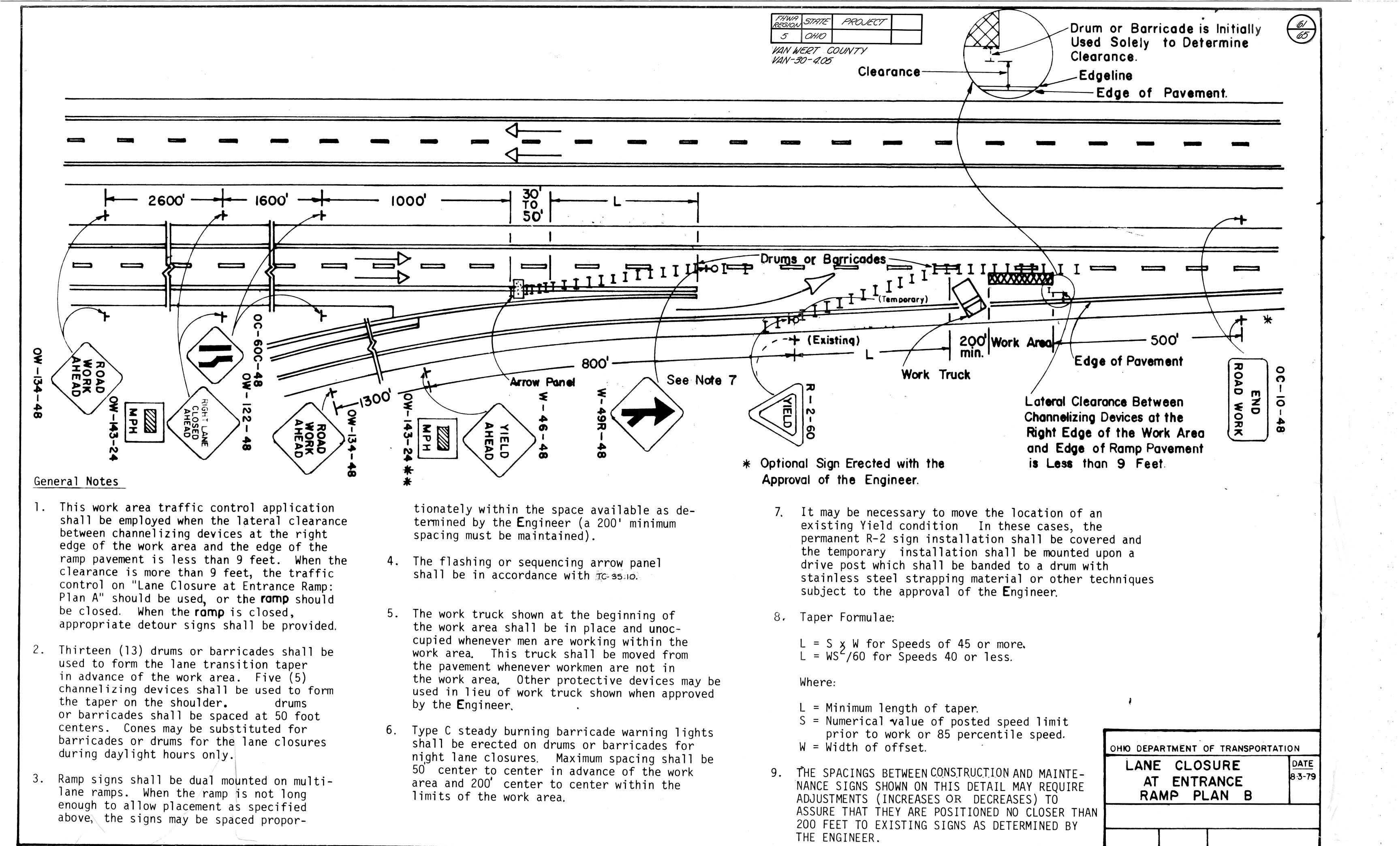
SPEED LIMIT PRIOR TO WORK OR

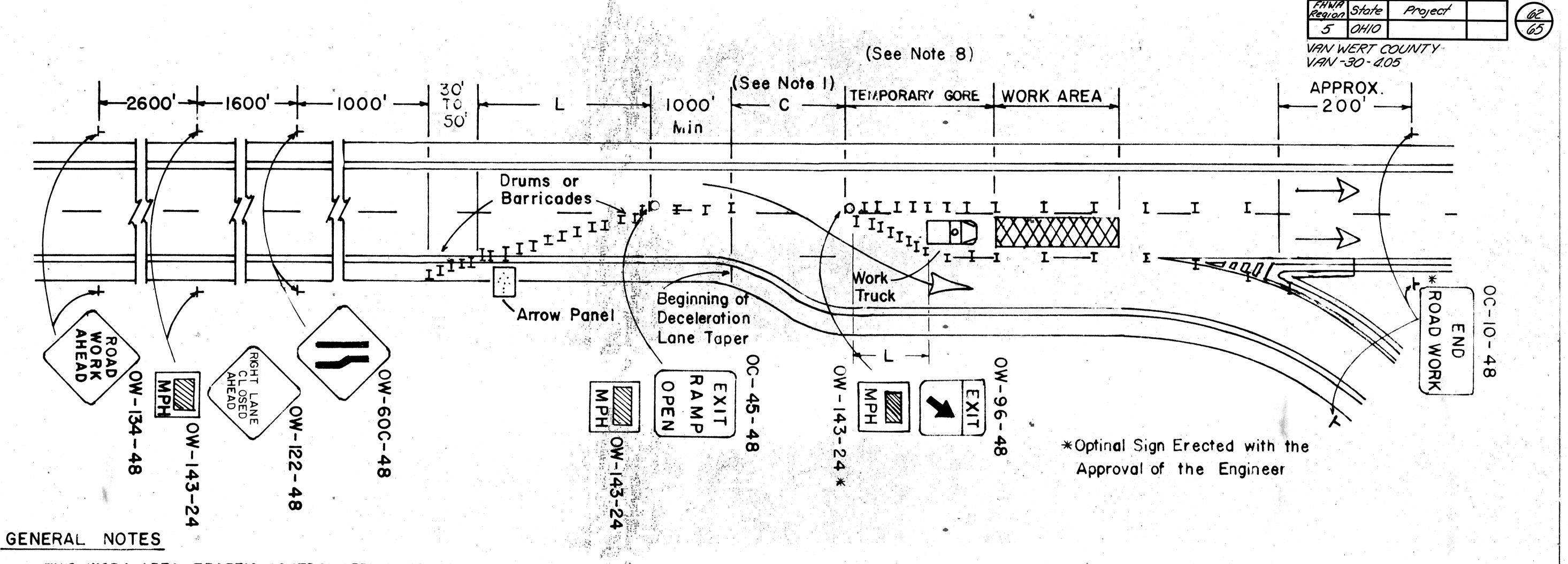
85 PERCENTILE SPEED.

W = WIDTH OF OFFSET.

8. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER TNAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

QHIQ DEPARTMENT OF TRANSPORTAT	ION
LANE CLOSURE	UNTE
AT ENTRANCE	8-3-79
RAMP: PLAN A	





- I. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY BE USED WHEN THE DISTANCE "C" IS 100 FEET OR GREATER. WHEN "C" IS LESS THAN 100 FEET, THE TRAFFIC CONTROL SHOWN ON THE "LANE CLOSURE BEFORE EXIT GORE" DETAIL SHOULD BE USED, OR THE EXIT SHOULD BE CLOSED, OR THE TRAFFIC CONTROL ON THIS DRAW-ING MAY BE USED WITH APPROVAL OF THE ENGINEER. WHEN THE EXIT IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.
- 2. WHEN WORK IS BEING PERFORMED IN ONLY THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, REFER TO THE TYPICAL WORK AREA TRAFFIC CONTROL SHOWN IN FIGURE C-21 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MO'VED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED IMPACT ATTENUATOR MAY BE EMPLOYED.

- 4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH TC-35.10.
- 5. THIRTEEN (13) DRUMS OR BARRICADES
 SHALL BE USED TO FORM THE LANE TRANSITION
 TAPER IN ADVANCE OF THE WORK AREA. FIVE
 (5) CHANNELIZING DEVICES SHALL BE USED TO
 FORM THE TAPER ON THE SHOULDER.

 DRUMS OR BARRICADES SHALL BE SPACED AT
 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED
 FOR BARRICADES OR DRUMS FOR THE LANE
 CLOSURES DURING DAYLIGHT HOURS ONLY.
- 6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES.

 MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

- 7. TAPER FORMULAE:
 - $L = S \times W$ FOR SPEEDS OF 45 OR MORE. $L = WS^2/60$ FOR SPEEDS OF 40 OR LESS.
 - WHERE:
 - L = MINIMUM LENGTH OF TAPER.
 - S = NUMERICAL VALUE OF POSTED

 SPEED LIMIT PRIOR TO WORK OR

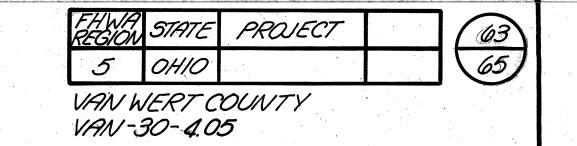
 85 PERCENTILE SPEED.
 - W = WIDTH OF OFFSET.
- 8. WHEN CREATING A TEMPORARY GORE, CHANNELIZING DEVICES SHOULD BE SPACED 25' CENTER TO CENTER SO AS TO CREATE A "SOLID GORE" EFFECT.

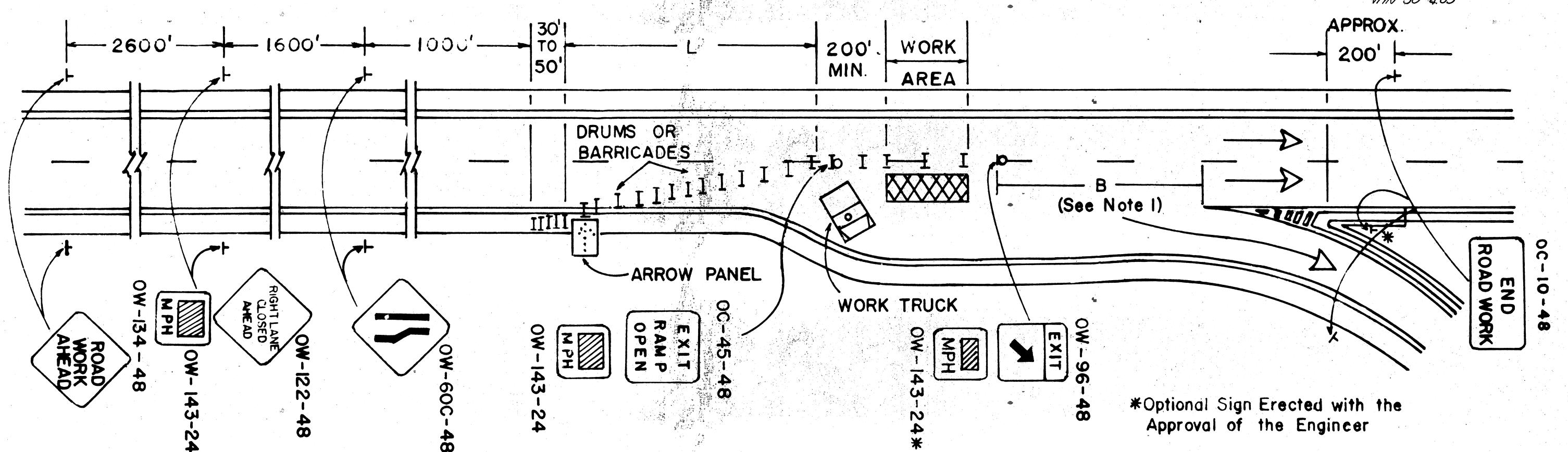
9. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE
8-3-79

AT EXIT GORE





GENERAL NOTES

- WORK AREA TRAFFIC CONTROL APPLICA-TION SHALL ONLY BE USED WHEN THE DISTANCE "B" IS 100 FEET OR GREATER. WHEN "B" IS LESS THAN 100 FEET, THE TRAFFIC CONTROL SHOWN ON THE "LANE CLOSURE AT EXIT GORE" DETAIL SHOULD BE USED, OR THE EXIT SHOULD BE CLOSED, OR THE TRAFFIC CONTROL ON THIS DRAWING MAY BE USED WITH APPROVAL OF THE ENGINEER. WHEN THE EXIT IS CLOSED, AP- 4. THE FLASHING OR SEQUENCING ARROW PANEL PROPRIATE DETOUR SIGNS SHALL BE PRO-YIDFO.
- 2. WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, REFER TO THE TYPICAL WORK AREA TRAFFIC CONTROL SHOWN IN FIGURE C-21 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 3. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

- SHALL BE IN ACCORDANCE WITH TC-35.10.
- 5. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. DRUMS OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.
- 6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULA E:

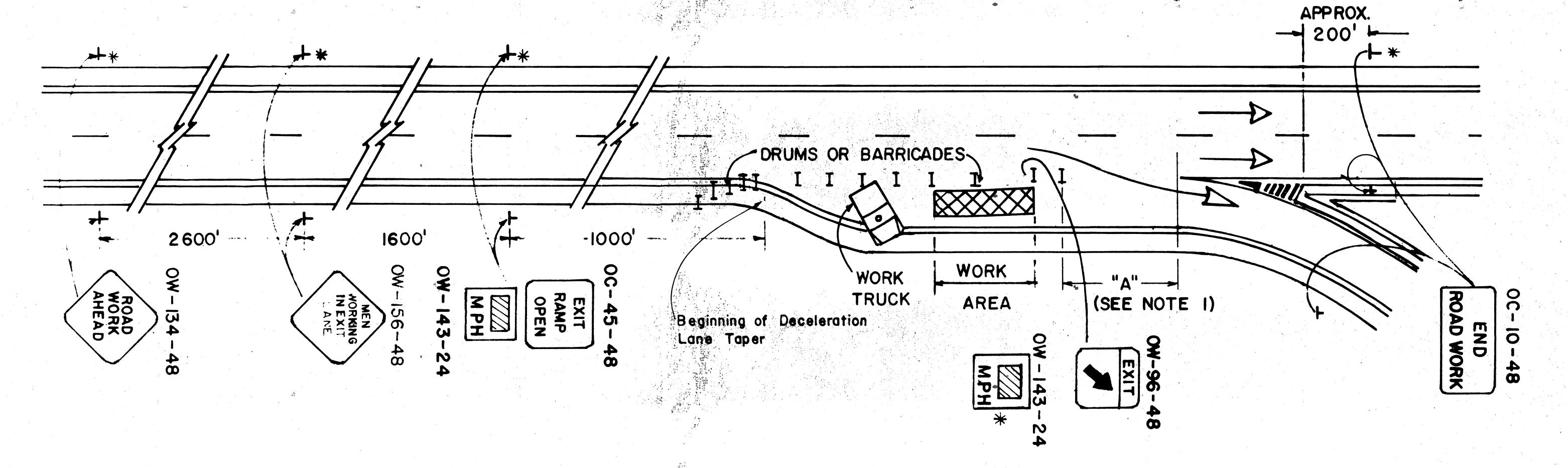
 $L = S \times W$ FOR SPEEDS OF 45 OR MORE. $L = WS^2/60$ FOR SPEEDS OF 40 OR LESS.

WHERE:

- L = MINIMUM LENGTH OF TAPER.
 - S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85 PERCENTILE SPEED.
 - W = WIDTH OF OFFSET.
- 8. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE BEFORE EXIT GORE



GENERAL NOTES.

- 1. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY APPLY WHEN THE DISTANCE "A" IS GREATER THAN 100'. WHEN DISTANCE "A" IS LESS THAN 100', THE RAMP SHALL BE CLOSED. WHEN THE RAMP IS CLOSED, THE TRAFFIC CONTROL SHALL INCLUDE DETOUR SIGNING FOR EXIT RAMP CLOSURES IN ACCORDANCE WITH OMUTCD.
- 2. DRUMS OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.
- 3. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES.

 MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

4. THE WORK TRUCK SHOWN AT THE BEGINNING OF
THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED
WHENEVER MEN ARE WORKING WITHIN THE WORK
AREA. THIS TRUCK SHALL BE MOVED FROM
THE PAVEMENT WHENEVER WORKMEN ARE NOT IN
THE WORK AREA. OTHER PROTECTIVE DEVICES
MAY BE USED IN LIEU OF THE WORK TRUCK
SHOWN WHEN APPROVED BY THE ENGINEER.

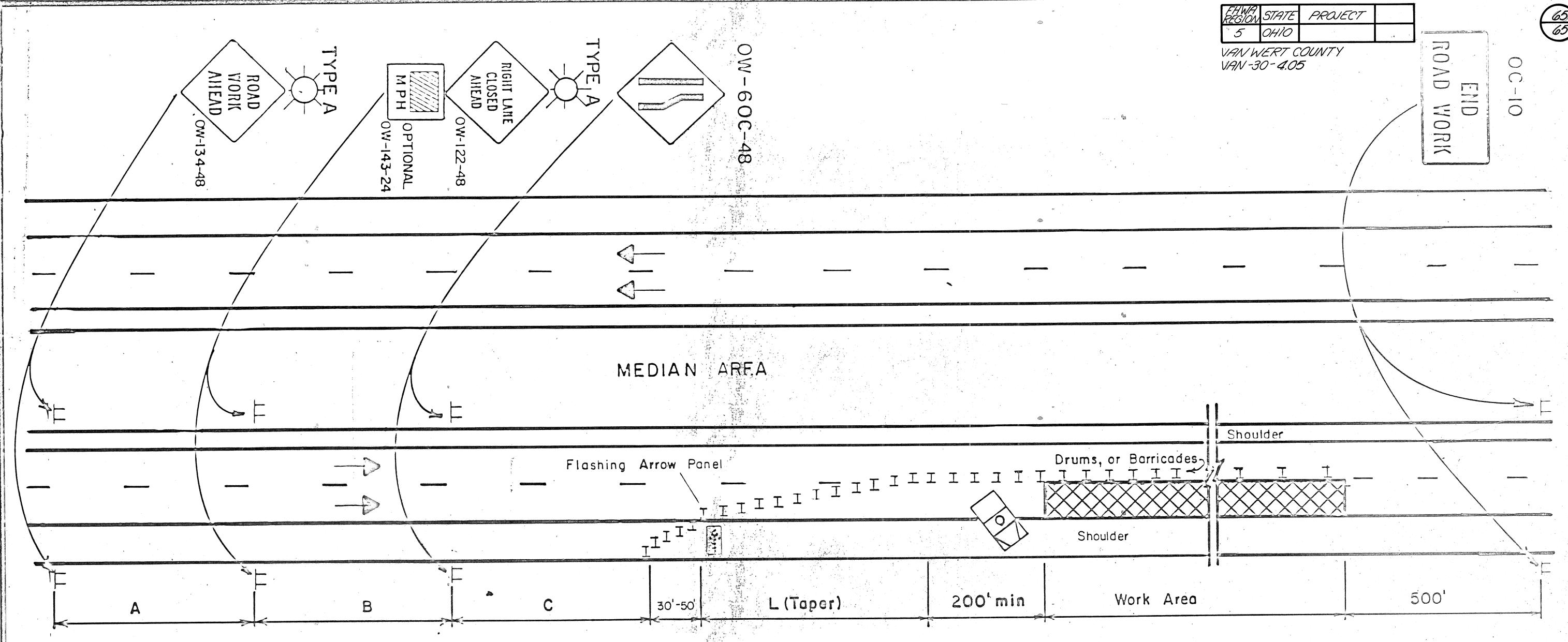
* OPTIONAL SIGN ERECTED WITH THE

APPROVAL OF THE ENGINEER.

5. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUST-MENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE IN DECELERATION LANE



GENERAL NOTES:

1. The taper length (L) shall be in accordance with Section 7F-17 of the OWNTCD. The location of the transition taper and location of the advance mining signs should be adjusted to provide for accepte sight distance for the existing vertical and horizontal roadway alignment. In order to externine the minimum number of charmolizing devices for the transition taper see Table 7-5 OFUTCO. For a 55 KPH prevailing speed and a 12 ft. lane, not less than thirteen drums or berricades shall be used to form the lane transition taper in advance of the work area. Not less than five (5) or barricades shall be used to form the taper on drucs or berricedes shell the shoulder. be spaced approximately 50' to 60' center to center for the first 1000 feet of the work area end at a maximum of 100 to 120 feet for the belence of the work erec. Comes are be substitutes for berricodes or druce for short term item closures during daylight hours only.

- 2. The major standard level warning sign sizes may be used on divided streets or highways that are not classified as freeways or expressways.
- 3. When work is being performed in the lane adjacent to the median on a divided highway an OU-123-48 sign(s) shall be substituted for the OH-122-48 sign(s) and an OH-60D-48 sign(s) shall be substituted for the OH-60C sign(s).
- 4. The work vehicle shown at the beginning of the work area shall be in place and unoccupied whenever workers are in the work area. This work vehicle shall be removed from the pavement whenever workers are not in the work area.

 Other protective devices may be used in lieu of the work vehicle shown who approved by the Enginer. The vehicle shall be equipped with a 360 rotating or flashing amber beacon clearly visible in all directions a minimum of a 4 mile.

- 5. The flashing arrow panel shall meet requirements contained in TC-35.10.
- 6 Type C steady burning barricade warning lights shall be erected on drums or barricades for night lane closures. The maximum spacing shall be identical to the channelizing device spacing requirements described in Note 1.

MINIMUM	A	8	С
DISTANCE			
MAJOR	500'	500'	500'
STANDARD			
URBAN FREEWAY C		500' TO	500°
EXPRESSWA	EY 1000'	1000'	1000'
RURAL FREEMAY &	2600,	1500	200
EXPRESSWA	ay l		

- 7. Type A flashing barricade warning lights shown on the "Road Work Ahead" and the "Right Lane Closed Ahead" signs are required whenever a night lane closure is necessary.
- 8. Some work area locations may require more than just static or conventional signs to enhance communication with the driver. At these locations Portable Changeable Message Signs (PCMS) units are recommended. These devices should be located approximately 3/4 mile in advance of a lane closure or other point of required action. See Section 7G-8.1, OMJICD for further guidance on use of PCMS units.

OHIO DEPARTMENT OF TRANSPORTATION

CLOSING ONE LANE

OF FOUR LANE

1 2/82

DIVIDED HIGHVAY