ALL - SR 117 - 18.85
030182 PID - 21641
Dist 1 3/26/2003

OHIO DEPARTMENT OF TRANSPORTATION
ALL-117-18.85
PERRY & AUGLAIZE TOWNSHIPS
ALLEN COUNTY

PLAN NO.

FEDERAL PROJECT NO. E034(509)

PID NO. 21641

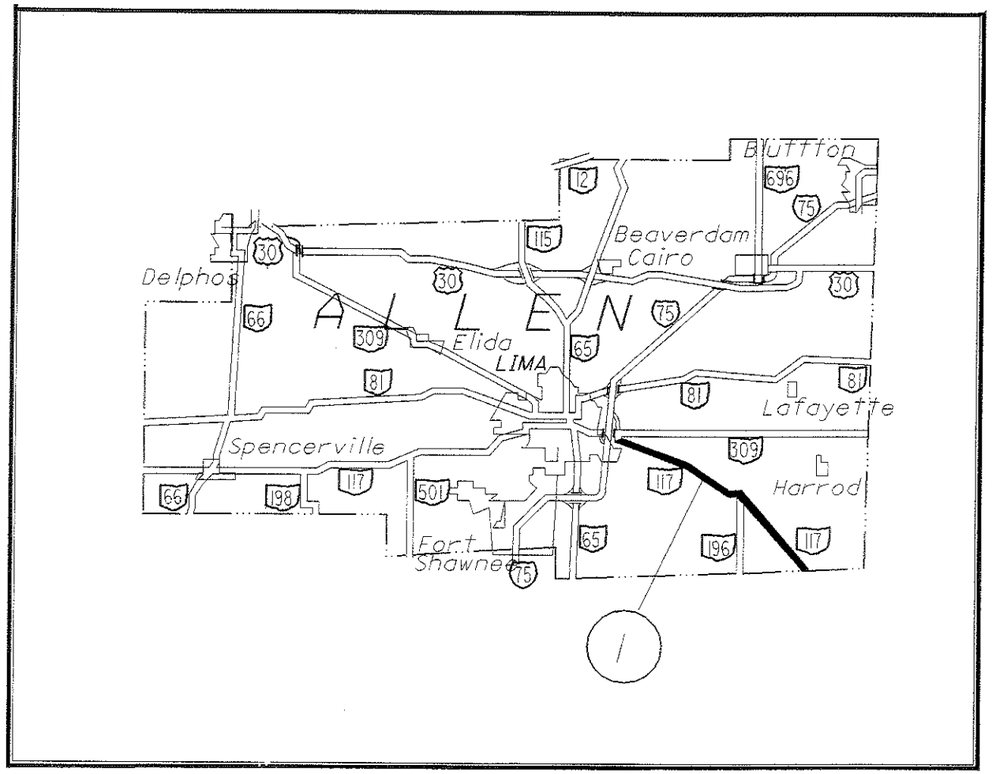
CONSTRUCTION PROJECT NO.

TITLE SHEET

ALL-117-18.85

1/7

LOCATION MAP



PORTION TO BE IMPROVED

N

PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINII BEGIN	PROJECT TERMINII END	NET LENGTH MILES	CITY/VILLAGE
1	ALL	SR117	18.74-24.69	18.85	28.61	9.76	

INDEX OF SHEETS:

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2002 SPECIFICATIONS

THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

APPROVED [signature]
DATE 12/20/02 DISTRICT DEPUTY DIRECTOR

APPROVED [signature]
DATE 1-14-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

PLAN PREPARED BY:
DISTRICT ONE
DEPARTMENT OF
TRANSPORTATION
1885 N. McCULLOUGH
LIMA, OHIO 45802

ENGINEERS SEAL

STATE OF OHIO
Russell Lynn Slonaker
E-61971
REGISTERED
PROFESSIONAL ENGINEER

Signed [signature]
Date 12/20/02

STANDARD DRAWINGS		STANDARD DRAWINGS		STANDARD DRAWINGS	
MT-97.10	04-19-02	TC-41.10	01-19-01		
MT-97.11	01-19-02	TC-41.20	01-19-01		
MT-99.10M	01-30-95	TC-52.10	04-20-01		
MT-99.20M	01-30-95	TC-52.20	04-20-01		
MT-105.10	04-25-94	TC-65.10	10-19-01		
MT-105.11	04-25-94	TC-65.12	10-19-01		
BP-3.1	07-28-00				

SUPPLEMENTAL SPECIFICATIONS	

PLAN NO.

GENERAL NOTES

TRAFFIC:
TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT REQUIREMENTS FOR PROTECTION OF COMPLETED COURSES.

RAILROAD CROSSINGS & BRIDGE TREATMENT:
THE NEW SURFACE COURSE SHALL BE FEATHERED OR BUTT JOINTED TO MEET THE PROFILE AS SPECIFIED BY THE ENGINEER.

ALIGNMENT AND PROFILE:
THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. FOR THE MOST PART THE PROPOSED SURFACE WILL BE RAISED AN AVERAGE OF 1¾INCHES EXCEPT IN AREAS OF PAVMENT PLANNING, WERE THE SURFACE WILL REMAIN APPROXIMATELY THE SAME. THE REMAINDER OF THE MATERIAL IS TO BE USED AS DETERMINED BY THE ENGINEER TO CORRECT THE EXISTING CROSS-SLOPE, ROUGH OR WEAK PAVEMENT, RUTTED AREAS, OR APPROACHES TO INTERSECTIONS, RAILROAD CROSSINGS OR BRIDGES.
SPREADING EQUIPMENT WILL HAVE AN AUTOMATIC PROFILE CONTROL DEVICE ADDED TO BE USED WHEN DIRECTED BY THE ENGINEER. THE MINIMUM LENGTH OF THE SKI FOR THIS DEVICE SHALL BE 30 FEET.

INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:
THIS MATERIAL SHALL BE PLACED IN A SEPARATE OPERATION WHERE AND AS DIRECTED BY THE ENGINEER.

ITEM 407 TACK COAT:
THE RATE OF APPLICATION OF 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLON PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.
THE CONTRACTOR SHALL NOTE THAT ADDITIONAL CLEANING AND SURFACE PREPARATIONS MAY BE REQUIRED WITHIN THE CORPORATE LIMITS OF THE MUNICIPALITIES ON THIS PROJECT. ANY AND ALL ADDITIONAL WORK SHALL BE INCIDENTAL TO 407.04 PREPARATION OF SURFACE.

EXTRA AREAS:
PRIVATE DRIVES SHALL BE FEATHERED IN APPROXIMATELY 6 FEET USING 448 ASPHALT CONCRETE. SOME DRIVES MAY REQUIRE MORE THAN 6 FEET TO ALLOW FOR AN ADEQUATE TRANSITION TO THE MAINLINE PAVEMENT. THESE TRANSISTIONS WILL BE AS DIRECTED BY THE ENGINEER. THE 448 ASPHALT CONCRETE QUANTITIES FOR DRIVES, MAILBOXES, BRIDGE APPROACHES AND INTER-SECTIONS ARE INCLUDED IN THE EXTRA AREA QUANTITIES.

ASPHALT CONCRETE PLACEMENT ON SHOULDERS:
THE ASPHALT CONCRETE ON THE SHOULDERS SHALL BE PLACED AT THE SAME TIME THAT THE ASPHALT CONCRETE IS PLACED ON THE ADJACENT LANES OF PAVEMENT. THE SHOULDER MATERIAL SHALL BE PLACED PARALLEL TO THE EXISTING SHOULDER GRADES.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22, AS PER PLAN:
THIS ITEM SHALL MEET ALL REQUIREMENTS OF SPECS 401,441 AND 448 WITH THE FOLLOWING EXCEPTION:

1) NO RECYCLED ASPHALT PAVEMENT SHALL BE USED IN THE SURFACE COURSE.

ALL COSTS ASSOCIATED WITH THE EQUIPMENT, LABOR AND MATERIALS NECESSARY FOR SUPPLYING AND PLACING THIS ITEM SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22, AS PER PLAN.

WEARING COURSE REMOVED:
A QUANTITY OF WEARING COURSE REMOVED HAS BEEN SUPPLIED TO BE USED AS DIRECTED BY THE ENGINEER FOR THE TRANSITION BETWEEN AREAS TO BE PLANED AND/OR AREA TO JUST RECEIVE A SURFACE COURSE. THIS QUANTITY IS TO BE USED FOR A BUTT JOINT AS PER BP-3.1 (ASPHALT CONCRETE TEMPORARY WEDGES SHALL BE PLACED PRIOR TO OPENING TO TRAFFIC AT ALL BUTT JOINTS), TO REMOVE IRREGULARITIES IN THE PAVEMENT AND TO TRANSITION FROM THE MAINLINE PAVEMENT INTO AN INTERSECTION. THESE AREAS SHALL BE RESURFACED WITHIN (7) SEVEN CALENDAR DAYS OF REMOVAL. IF THIS IS NOT DONE, LIQUIDATED DAMAGES WILL BE LEVIED AS PER SECTION 108.07 OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

MAINTAINING TRAFFIC AT PLANED AREAS:
THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO THAT TRAFFIC IS RETURNED TO AN AREA WHEN THE PLANING IS COMPLETE. THE PLANED AREA SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY MARKINGS.
ALL REQUIRED WORK ZONE PAVEMENT MARKINGS SHALL BE PLACED PRIOR TO OPENING THE AREA TO TRAFFIC. NO PLANED SURFACE SHALL REMAIN OPEN TO TRAFFIC MORE THAN (7) DAYS BEFORE BEING COVERED WITH AN ASPHALT COURSE. IF THIS IS NOT DONE, LIQUIDATED DAMAGES WILL BE LEVIED AS PER SECTION 108.07 OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ITEM 604 MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN:
INCLUDED IN THE GENERAL SUMMARY FOR USE ON THIS PROJECT IS A CONTINGENCY QUANTITY OF 2 EACH - ITEM 604 MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN . THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE LABOR AND EQUIPMENT TO OBTAIN THE MONUMENT BOX RISER FROM THE ENGINEER AND INSTALL IT TO THE ENGINEER'S SATISFACTION. THE USE OF THIS ITEM SHALL BE "AS DIRECTED BY THE ENGINEER."

CONVERSION OF METRIC STANDARD DRAWINGS:
THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE. VALUES WHERE SUITABLE.

RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE, AS PER PLAN:
THIS ITEM SHALL MEET ALL REQUIREMENTS OF 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE AND ADDITIONALLY THE CONTRACTOR SHALL DELIVER ALL REMOVED AND NON-PERFORMED RAISED PAVEMENT MARKERS TO A SPECIFIED LOCATION IN LIMA AT THE ODOT DISTRICT ONE TRAFFIC GARAGE LOCATED AT 2100 N. WEST ST. , LIMA, OHIO.
CONTACT THE ROADWAY SERVICES ENGINEER AT 419-222-9055 7 DAYS PRIOR TO DELIVERY.
ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID ITEM 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN.

CALCULATIONS
CHECKED

GENERAL NOTES

ALL-117-18.85

PLAN NO.

GENERAL NOTES

ITEMS 251 & 253 - PARTIAL DEPTH PAVEMENT REPAIR & PAVEMENT REPAIR:

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE PREPARED. THE REPAIR AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND CUT OR SAWED TO A NEAT LINE. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE THE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT (MAXIMUM - 3.0 INCHES FOR ITEM 251 PARTIAL DEPTH REPAIR AND MORE THAN 3 INCHES AVERAGE FOR ITEM 253 PAVEMENT REPAIR). THE MATERIALS SO REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 203.01.

THE VERTICAL FACES OF THE REPAIR AREA SHALL BE TACKED PRIOR TO PLACING THE 301 FOR ITEM 253 PAVEMENT REPAIR AND/OR 448 ASPHALT FOR ITEM 251 PARTIAL DEPTH REPAIR. THIS MATERIAL SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT EXISTING PAVEMENT SURFACE PRIOR TO PLACING THE PROPOSED ASPHALT CONCRETE OVERLAY ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. AN ESTIMATED QUANTITY IS PROVIDED IN THE SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD OF ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR AND PER CUBIC YARD ITEM 253 PAVEMENT REPAIR.

251 PARTIAL DEPTH PAVEMENT REPAIR	200	SQUARE YARD
253 PAVEMENT REPAIR	1241	CUBIC YARD

ITEM 617 COMPACTED AGGREGATE TYPE A, AS PER PLAN

THIS ITEM SHALL MEET ALL REQUIREMENTS FOR ITEM 617 COMPACTED AGGREGATE TYPE A WITH THE FOLLOWING EXCEPTION:

1) NO RECYCLED ASPHALT CONCRETE PAVEMENT SHALL BE USED IN THIS ITEM

ALL COSTS ASSOCIATED WITH THE EQUIPMENT, LABOR AND MATERIALS NECESSARY FOR SUPPLYING AND PLACING THIS ITEM SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR ITEM 617 COMPACTED AGGEGATE TYPE A, AS PER PLAN.

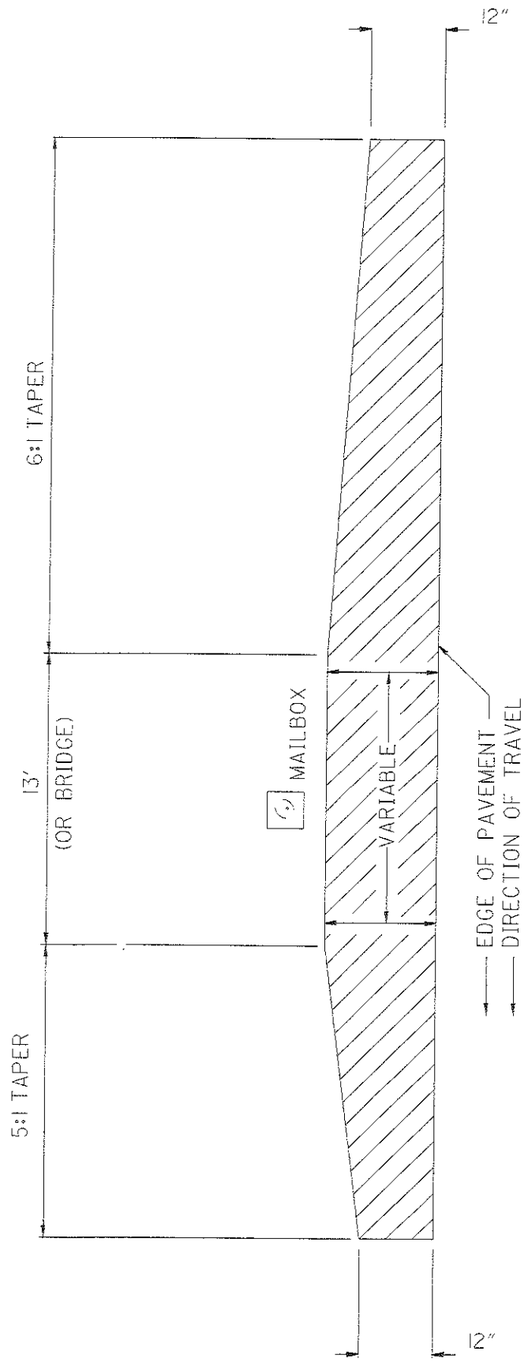
CALCULATIONS

CHECKED

GENERAL NOTES

ALL-117-18.85

PLAN NO.



SINGLE - MAILBOX TURNOUT & BRIDGE APPROACHES

* IF THERE IS A DISTANCE OF 100 FEET OR LESS BETWEEN MAILBOXES: APPROCHES SHALL BE PAVED THRU TO LAST MAILBOX. THIS AREA SHALL REPRESENT LOCATION OF BRIDGE (VARIABLE LENGTH, NO WORK) FOR BRIDGE APPROACHES.

** IF THERE IS A DISTANCE OF 50 FEET OR LESS BETWEEN DRIVEWAY AND MAILBOX: APPROACH SHALL BE PAVED THRU TO MAILBOX.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING OF MATERIALS FROM ALL STONE DRIVEWAYS AND MAILBOX APPROACHES TO A DEPTH OF 2 INCHES BELOW EXISTING PAVEMENT. EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY OUTSIDE THE LIMITS OF THE HIGHWAY RIGHT OF WAY.

WHEN UNSTABLE MATERIAL IS ENCOUNTERED, EXCAVATION OF THIS MATERIAL SHALL BE TO A DEPTH OF 6 INCHES BELOW EXISTING PAVEMENT ELEVATION. AN ESTIMATED QUANTITY OF 304 AGGREGATE BASE HAS BEEN SET UP FOR BACKFILL OF THESE AREAS.

AN ESTIMATED QUANTITY OF 408 PRIME COAT HAS BEEN SET UP TO BE USED IN THE AREAS OF EXCAVATION.

AN ADDITIONAL QUANTITY OF 448 ASPHALT CONCRETE PG64-22 HAS BEEN SET UP TO BE USED IN THOSE AREAS EXCAVATED FOR DRIVEWAYS, MAILBOX AND BRIDGE APPROACHES.

ALL WORK, MATERIALS, EXCEPT 304 AND 408, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE PLACEMENT OF THE 448 ASPHALT CONCRETE PG64-22.

MAILBOX TURNOUT

ALL-117-18.85

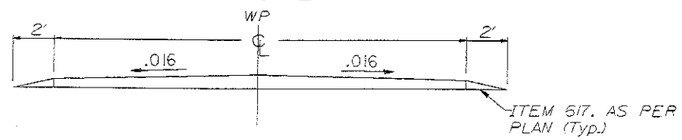
DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

ASPHALT CONCRETE

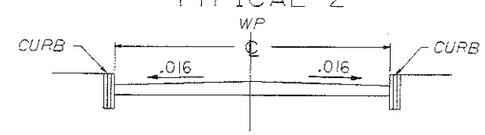
PLAN NO.

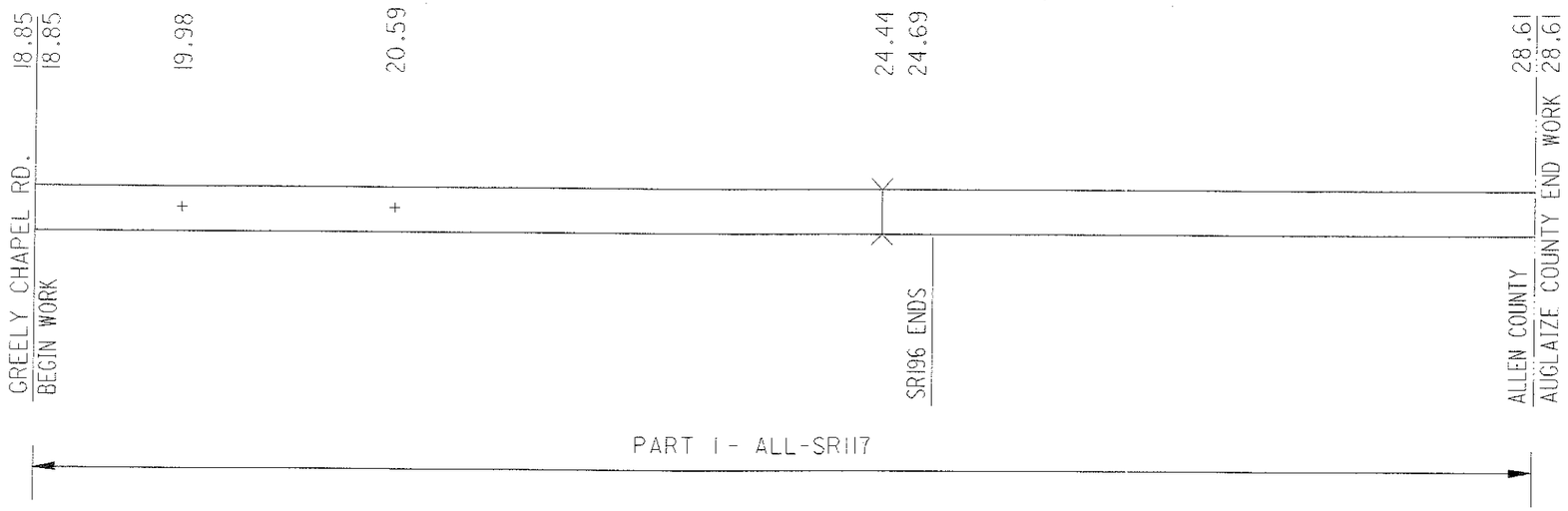
CALCULATIONS | CHECKED

TYPICAL 1



TYPICAL 2





*NOTE: ESTIMATED QUANTITIES

NOTE: DRAWINGS NOT TO SCALE

NOTE: ALL TOTALS CARRIED TO GENERAL SUMMARY

NOTE: MAILBOX, DRIVES AND INTERSECTION QUANTITIES ARE INCLUDED IN THE EXTRA AREAS

‡ = VARIABLE
MB = MONUMENT BOX

PAVEMENT DATA

PART	ROUTE	LOG POINT FROM	LOG POINT TO	LENGTH MILES	LENGTH FEET	WP FEET PAV'T.	TYPICAL	EXISTING TYPE PAV'T.	PAVEMENT AREA SQUARE YARDS	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL/YD² GALLON	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.075 GAL/YD² GALLON	408 PRIME COAT @ 0.40 GAL/YD² GALLON	448 ASPHALT CONCRETE THICK INCHES AVG.	448 ASPHALT CONCRETE SURFACE COURSE TYPE 1H, AS PER PLAN CUBIC YARD	448 ASPHALT CONCRETE THICK INCHES AVG.	448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22, AS PER PLAN CUBIC YARD	448 ASPHALT CONCRETE THICK INCHES AVG.	448 ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1, PG64-22 CUBIC YARD	202 WEARING COURSE REMOVED 1 INCH AVG. DEPTH SQUARE YARD	304 AGGREGATE BASE CUBIC YARD	254 PAVEMENT PLANING ASPHALT CONCRETE 1½ INCH AVG. SQUARE YARD	254 PATCHING PLANED SURFACE SQUARE YARD	617 COMPACTED AGGREGATE TYPE A, AS PER PLAN 2 @ 2 FT 2 INCH AVG. THICKNESS CUBIC YARD
1	SR117	18.85	19.91	1.06	5597	48	2	404	29851	2239					1.50	1244					29851	60	
1	SR117	19.91	19.98	0.07	370	40	1	404	1644	123					1.50	69					1644	3	9
1	SR117	19.98	20.73	0.75	3960	32	1	404	14080	1056	1056				1.25	489	.50	196					98
1	SR117	20.73	24.00	3.27	17266	28	1	404	53716	4029	4029				1.25	1865	.50	746					426
1	SR117	24.00	24.40	0.40	2112	32	1	404	7509	563	563				1.25	261	.50	104					52
1	SR117	24.40	24.70	0.30	1584	28	1	404	4928	370	370				1.25	171	.50	68					39
1	SR117	24.70	28.61	3.91	20645	30	1	404	68817	5161	5161				1.25	2389	.50	956					510
	EXTRA	AREAS							11664	875	875				‡	405	‡	58					
	TOTAL	PART	1	9.76	51534				192209	14416	12054	*98				6893		2128	*890	*20	31495	63	1134

ASPHALT CONCRETE

ALL-117-18.85

DEPARTMENT OF TRANSPORTATION
M & R 712 REV. 9-1-83

RPM LOCATION SUB-SUMMARY

PLAN NO.

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/IT TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/IT TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	ONE LANE BRIDGE
14	TWO WAY LEFT TURN
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALTERNATE
17	STOP APPROACH ALTERNATE
GAP	CENTERLINE AT 80 FT. TYPICAL

LOCATION NUMBER	TYPICAL SPACING				DETAIL	R P M	PRISMATIC RETRO-REFLECTOR	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S L M SECTION					R P M			ONE-WAY		TWO-WAY			
			FROM	TO							WHITE	YELLOW	WHITE/ WHITE	YELLOW/ YELLOW	WHITE/ RED	
	ALL	SR117	18.85	19.91	11			210						210		
	ALL	SR117	19.91	22.29	GAP			157						157		
	ALL	SR117	22.29	22.60	15			20						20		
	ALL	SR117	22.60	24.00	GAP			92						92		
	ALL	SR117	24.00	24.30	15			20						20		
	ALL	SR117	24.30	24.59	GAP			19						19		
	ALL	SR117	24.59	24.90	JCT.	SR196		41						41		
	ALL	SR117	24.90	28.61	GAP			245						245		
	TOTAL	PART	1					804						804		

TOTALS CARRIED TO GENERAL SUMMARY

CALCULATIONS

CHECKED

RPM LOCATION SUB-SUMMARY

ALL-117-18.85

DOT 1920

GENERAL SUMMARY

PLAN NO.

PART I		ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION
890		202	23500	890	SQ YARD	WEARING COURSE REMOVED
835		202	54101	835	EACH	RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN
200		251	01000	200	SQ YARD	PARTIAL DEPTH PAVEMENT REPAIR
1241		253	02000	1241	CU YARD	PAVEMENT REPAIR
31495		254	01000	31495	SQ YARD	PAVEMENT PLANING, ASPHALT CONCRETE
63		254	01600	63	SQ YARD	PATCHING PLANED SURFACE
20		304	20000	20	CU YARD	AGGREGATE BASE
14416		407	10000	14416	GALLON	TACK COAT
12054		407	14000	12054	GALLON	TACK COAT FOR INTERMEDIATE COURSE
98		408	10000	98	GALLON	PRIME COAT
2128		448	46020	2128	CU YARD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG64-22
6893		448	47021	6893	CU YARD	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22, AS PER PLAN
2		604	39501	2	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN
39		614	12460	39	EACH	WORK ZONE MARKING SIGN
19.52		614	21400	19.52	MILE	WORK ZONE CENTER LINE, CLASS II
1134		617	10101	1134	CU YARD	COMPACTED AGGREGATE, TYPE A, AS PER PLAN
804		621	00200	804	EACH	RAISED PAVEMENT MARKER, INSTALLATION ONLY
19.52		642	00090	19.52	MILE	EDGE LINE
2.12		642	00190	2.12	MILE	LANE LINE
9.76		642	00290	9.76	MILE	CENTER LINE
50		647	18070	50	FT	STOP LINE, TYPE C
LUMP		614	11000	LUMP		MAINTAINING TRAFFIC
LUMP		624	10000	LUMP		MOBILIZATION

CALCULATIONS

CHECKED

GENERAL SUMMARY

ALL-117-18.85