LOCATION 3

OKFIEL

PORTION TO BE IMPROVED

LÓCATION 2

PROJECT DESCRIPTION:

istrict

GUE-146-0.00

MUS-340-0.00 NOB-340-0.00

GUE-340-0.00

PROJECT TERMINI COUNTY ROUTE LOCATION BEGIN END SR 146 0.00 10.62 2 SR 340 MUS 0.00 3.65 3 NOB SR 340 0.00 0.71 0.71 GUE SR 340 0.88 0.88 0.00

SPENCER TOWNSHIP, GUERNSEY COUNTY VALLEY TOWNSHIP, GUERNSEY COUNTY MEIGS TOWNSHIP, MUSKINGUM COUNTY BROOKFIELD TOWNSHIP, NOBLE COUNTY

INDEX OF SHEETS:

INDEX OF SHEETS	
TITLE SHEET	/
GENERAL NOTES	2-7
ASPHALT CONCRETE DATA	8,9
SHOULDER TREATMENT	10
EXTRA AREAS DATA	11,12
BRIDGE TREATMENT	13
BRIDGE DECK DETAILS	14-16
CULVERT REPAIRS	17-19
CUMBERLAND/PLAN SHEET	20
CURB RAMP INSERT SHEETS	20A-20C
CENTER/EDGE LINE SUB-SUMMARY	21
AUXILIARY MARKING SUB-SUMMARY	22,23
RPM LOCATION SUB-SUMMARY	24,25
LOCATION   SUB-SUMMARY	26
LOCATION 2 SUB-SUMMARY	27
LOCATION 3 SUB-SUMMARY	28
LOCATION 4 SUB-SUMMARY	29
GENERAL SUMMARY	30

Project Earth Disturbed Area = N/A (Maintenance Project) Estimated Contractor Earth Disturbed Area = N/A (Maintenance Project) Notice of Intent Earth Disturbed Area = N/A (Maintenance Project)

#### 2005 SPECIFICATIONS

THE STANDARD 2005 SPECIFICATIONS OF THE STATE OF OHIO DEPART-MENT 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.

DATE 9-12-05 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN EXCEPTIONS: NONE

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

MUST BE CALLED DIRECTLY

RMC = Rural Major Collector

		SECTIONS									
DESIGN DESIGNATION	GUE - SR 146	MUS - SR 340	NOB - SR 340	GUE - SR 340							
DESIGN DESIGNATION	(0.00-10.62)	(0.00-3.65)	(0.00-0.71)	(0.00-0.88)							
Functional Classification	RURAL MAJOR COLLECTOR	RURAL MINOR COLLECTOR	RURAL MINOR COLLECTOR	RURAL MINOR COLLECTOR							
Current ADT (2006)	1900	200	200	200							
Design Year ADT (2018)	2000	210	210	210							
Design Hourly Volume (2018)	220	25	25	25_							
Directional Distribution	50%	50%	50%	50%							
Trucks (24 Hour B&C)	8%	15%	15%	15%							
Design Speed	55mph	55mph	55mph	55mph							
Legal Speed	55mph	55mph	55mph	55mph							

NOBLE COUNTY

STANDA	RD CONSTRUC	SUPPLEMENTAL SPECIFICATIONS				
BP-3.1	7-16-04	MT-97.10	4-19-02	800	<b>7-</b> 15-05	
BP-4.1	7-16-04	MT-97.11	4-19-02	832	4-17-04	
		MT-99.20M	I-30-95	833 .	2-12-03	
GR-1.1	7-16-04					
GR-2.1	1-16-04	TC-41.20	01-19-01			
GR-2.4	4-18-03	TC-42.20	07-16-04			
GR-3.4	4-18-03	TC-65.10	01-21-05			
GR-4.1	4-18-03	TC-65.11	01-21-05			
GR-4.2	4-15-05	TC-71.10	01-21-05			
		TC-73.10	01-19-01			

PLAN PREPARED BY

Production

 $\bigcirc$ 

 $\circ$ 

05057 Dist 5

 $\tilde{\infty}$ 

PID - 25670

11/16/2005

GUE

ഗ

D

146/340-0.00/0.00/0.00

**MUSKINGUM** 

COUNTY

RICH

HILL

LOCATION

LOCATION 4

MEIGS

Spratt

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN.
THE NATURE OF THE WORK REQUIRED BY THIS PROJECT SHOULD NOT
AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR
ADJACENT TO THE WORK AREA. BELOW IS A LIST OF UTILITIES LOCATED
WITHIN THE WORK AREA AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT OWNERS AND VERIFY LOCATIONS:

ADELPHIA COMMUNICATIONS P.O. BOX 1297 351 HIGHLAND AVENUE CAMBRIDGE, OHIO 43725 ATTN: CHUCK GIBSON 740-432-7321

AMERICAN ELECTRIC POWER 1900 LICKING ROAD ZANESVILLE, OHIO 43701 740-348-4030 ATTN: TRACY WINTERMUTE

AMERICAN ELECTRIC POWER CO. TRANSMISSION 825 TECH CENTER DR. GAHANNA, OHIO 43230 ATTN: TOD WICK 740-552-1899

COLUMBIA GAS TRANSMISSION 301 MAPLE STREET P.O. BOX 330 SUGAR GROVE, OHIO 43155 ATTN: WALLER WELCH 740-746-2219 EAST OHIO GAS CO. 7015 FREEDOM AVE. NOR'TH CANTON, OHIO 44720 ATTN: TIM MCNUTT 216-798-7209

GUERNSEY-MUSKINGUM-ELECTRIC COOP. 17 SOUTH LIBERTY STREET NEW CONCORD, OHIO 43762 ATTN: JOHN MARSHALL 740-826-7661

GUERNSEY COUNTY WATER 11272 EAST PIKE CAMBRIDGE, OHIO 43725 ATTN: CLARENCE RIDGLEY 740-439-1269

VERIZON 9444 CAMPBELL ST. CAMBRIDGE, OHIO 43725 ATTN: BEN NOBLE 740-432-7137

# RAILROAD INVOLVEMENT

THE COMMUNITY IMPROVEMENT CORPORATION HAS/IS PURCHASING THE RAILROAD LANDS LOCATED WITHIN THE PROJECT LIMITS. THEY WILL BE UPGRADING ALL AT-GRADE RAIL CROSSINGS ALONG THE PROJECT. THE POSSIBILITY EXISTS FOR BOTH CONTRACTORS TO BE ON SITE AT THE SAME TIME. THE CONTRACTOR SHALL CONTACT THE COMMUNITY IMPROVEMENT CORPORATION TO COORDINATE THE RESURFACING PROJECT WITH THE RAILROAD CONTRACTOR. BELOW IS THE CONTACT INFORMATION FOR THE COMMUNITY IMPROVEMENT CORPORATION:

MR. BOB OESS COMMUNITY IMPROVEMENT CORPORATION 806 COCHRAN ROAD CAMBRIDGE, OHIO 43725 740-432-1881

# NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR WITH COPIES FOR THE DISTRICT 5 ROADWAY SERVICES MANAGER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE SUCH CLOSURE OR LANE RESTRICTIONS.

# SEND NOTIFICATION TO:

-27-05

DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR P.O. BOX 306 JACKSONSTOWN, OH 43030 PHONE: (740) 323-4400 EXT. 5241

# ITEM 617, COMPACTED AGGREGATE, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS SHALL BE WAIVED EXCEPT SHALE. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DIRECTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 617.02) IN LIEU OF CRUSHED LIMESTONE.

### PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

#### TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

# TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT FOR INTERMEDIATE COURSE SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.05 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

# PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN IN THE PLANS ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING MARKING LOCATIONS (i.e. BY USE OF VIDEO, PICTURES) AND PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DOCUMENTATION OF PAVEMENT MARKING SHALL BE SUPPLIED TO THE ENGINEER BEFORE COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS.

# CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

#### ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF WORK ZONE MARKING SIGNS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

WORK TOUT WERENE STOUT	LC	DCATION	IS	
WORK ZONE MARKING SIGNS	1	2	3	4
OW-167 (NO EDGE LINES)	22	4	2	2
R-33 (DO NOT PASS)	12	6		2
R-34 (PASS WITH CARE)	10	4	2	3
OW-128 (BEGIN ROAD CONSTRUCTION AHEAD)	23	1		2
OC-8 (END ROAD CONSTRUCTION)	23	1		2
TOTAL	90	16	4	//

#### ITEM 202: RAISED PAVEMENT MARKER REMOVED

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REMOVE RAISED PAVEMENT MARKERS FOR DISPOSAL BY THE CONTRACTOR.

RPM REMOVAL SHALL NOT OCCUR SOONER THAN 10 DAYS PRIOR TO RESURFACING OF THE ROADWAY. ALL RPM'S REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM 202 RAISED PAVEMENT MARKER REMOVED

LOCATION I - 1146 EACH

LOCATION 2 - 407 EACH

LOCATION 3 - 47 EACH

LOCATION 4 - 83 EACH

#### SPOT LEVELING

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO RESTORE ROADWAY CROWN/PROFILE WHERE NO PLANING OCCURS. PLACING OF SPOT LEVELING MATERIAL SHALL TAKE PLACE PRIOR TO PLACING OF THE 1.0" INTERMEDIATE COURSE.

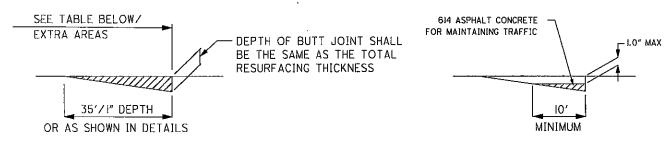
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 70-22 LOCATION I - 400 CU. YD.

#### CONVERSION OF METRIC DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED
TO ENGLISH UNITS USING THE SI (METRIC) OF THE 2002 CONSTRUCTION AND MATERIALS
SPECIFICATIONS. TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02
IEEE/ASTM SI 10 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS
REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT
STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

### BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT LOCATIONS SPECIFIED BELOW AND AT EXTRA AREAS WITH WEARING COURSE REMOVED. AFTER THE JOINT IS CONSTRUCTED, THE DROP OFF CREATED SHALL BE MINIMIZED BY IMMEDIATELY PLACING THE PROPOSED 448 INTERMEDIATE COURSE TO WITHIN 1.0" OF EXISTING ROADWAY SURFACE OR BY PLACING WEDGE AS SHOWN. BUTT JOINTS SHALL BE AS PER SCD BP-3.1, 7-16-04.



LOCATION	ROUTE	DESCRIPTION	SLM	202 WEARING COURSE REMOVED	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
			<del></del>	SQ. YD.	CU. YD.
1	SR 146	BEGIN WORK .	0.00	156	0.75
1	SR 83	@ SR 146 BOTH SIDES	1.87	**	3.6
1	SR 340	@ SR 146 IN CUMBERLAND	2.16	**	1.8
1	MAIN ST.	@ SR 146 IN CUMBERLAND	2.16	**	1.5
1	SR 146	GUE-146-0256	2.56	***	1.5
1	SR 146	GUE-146-0344	3.44	***	1.5
1	SR 146	GUE-146-0390	3. 90	***	1.5
1	SR 146	GUE-146-0410	4. 10	***	1.5
- I	SR 146	GUE-146-0752	7.52	***	1.5
i i	SR 146	GUE-146-0785	7. <i>85</i>	***	1.5
1	SR 146	GUE-146-0941	9.41	***	0
1	SR 146	GUE-146-1002	10.02	***	1.5
1	SR 672	@ SR 146	4.35	*	<i>3.25</i>
1	SR 146	@ RR	7.54	156	0. 75
1	SR 146	<b>e</b> RR	7.88	140	0.50
1	SR 146	@ RR	8, 37	280	1.0
1	SR 146	@ RR	8.97	280	1.0
1	SR 146	@ SR 821	9.86	*	2.9
1	SR 146	@ SR 821	9.99	*	2.9
1	MAIN ST.	@ SR 146 IN PLEASANT CITY	10 <b>.</b> 15	*	1.5
1	SR 146	END WORK	0.00	140	0. 75
1	SR 146	TOTALS		1152	32.7
2	SR 340	BEGIN WORK	0.00	*	3.80
2	SR 340	MUS-146-0186	1.86	***	1.5
2	SR 340	MUS-146-0294	2.94	***	1.5
2	SR 340	TOTALS			6.80
4	SR 340	GUE-340-0078	0.78	***	1.5

#### **FEATHERING**

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH SCD DRAWING BP-3.1, 7-16-04

- \* QUANTITY SHOWN ON SHEET II
- \*\* QUANTITY SHOWN ON SHEET 12
- \*\*\* QUANTITY SHOWN ON SHEET 13
- # INCLUDED WITH PAVEMENT PLANING



# ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

AN ESTIMATED QUANTITY FOR PAVEMENT REPAIR HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER. REPAIRS SHALL TAKE PLACE PRIOR TO THE PAVING OPERATIONS. THE INTENT OF THIS OPERATION IS TO REPAIR THOSE AREAS OF PAVEMENT WHICH HAVE COMPLETELY FAILED (PUMPING OF SUBBASE MATERIAL) AND NOT TO CORRECT SURFACE IRREGULARITIES. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 7". AFTER EXCAVATION HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 7" OF ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 (PLACED AND COMPACTED AS DIRECTED). ALL EXCAVATION, MATERIALS, LABOR, EQUIPMENT, TOOLS, TRAFFIC CONTROL AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR. AS PER PLAN.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR. AS PER PLAN

LOCATION 1 - 5000 SQ. YD. LOCATION 3 - 400 SQ. YD. LOCATION 2 - 1450 SQ. YD. LOCATION 4 - 750 SQ. YD.

# ITEM 407 TACK COAT. MISC.: FOR LONGITUDINAL JOINT

IN ORDER TO ASSURE A GOOD BOND AT THE LONGITUDINAL JOINT, A RUBBERIZED ASPHALT EMULSION (ITEM 407 TACK COAT AS PER 702.13) SHALL BE APPLIED TO THE FACE OF THE SURFACE COURSE OF ASPHALT PAVEMENT IMMEDIATELY BEFORE PLACING THE ADJACENT PAVEMENT. RUBBERIZED TACK SHALL HAVE 100% COVERAGE ON THE FACE OF THE TOP COURSE AND BE APPLIED AT THE RATE OF 0.25 GALLONS PER SQUARE YARD, AS DIRECTED BY THE ENGINEER. CARE SHALL BE TAKEN (AS PER SECTION 407.07) IN THE APPLICATION OF THE TACK SQ AS TO AVOID PLACING EMULSION ON THE TOP SURFACE OF THE PAVEMENT. THE FOLLOWING QUANTITY OF ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL TO PERFORM THE ABOVE WORK.

ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT

LOCATION 1 - 55387 FT

LOCATION 3 - 3750 FT

LOCATION 2 - 19958 FT LOCATION 4 - 4650 FT

# ITEM 408 PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GALLON PER SQUARE YARD TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS. THE FOLLOWING QUANTITY OF PRIME COAT, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO PERFORM THE ABOVE MENTIONED WORK.

ITEM 408 PRIME COAT, AS PER PLAN

LOCATION 1 - 9780 GAL.

LOCATION 3 - 666 GAL.

LOCATION 2 - 3548 GAL. LOCATION 4 - 826 GAL.

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN

THIS ITEM SHALL BE USED AS DIRECTED BY THE ENGINEER TO PLACE 6.0" OF ITEM 301 ON A PREVIOUSLY PREPARED SUBBASE (TO BE PLACED BY OTHERS) AND SHALL OCCUR PRIOR TO THE RESURFACING OF SR 340. THE QUANTITIES SHOWN ARE BASED ON ESTIMATED AREAS OF 150' X 10' (GUE 340-0.10), 175' X 20' (GUE 340-0.54), & 180' X 20' (MUS 340-3.11). ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PLACE AND COMPACT ABOVE MENTIONED MATERIAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN. THE PLACEMENT OF ITEM 301 IS ANTICIPATED TO OCCUR BETWEEN JUNE 1ST AND JUNE 30TH, 2006. THE CONTRACTOR SHALL COOPERATE WITH ODOT D-05 ROADWAY SERVICES TO ENSURE THAT THE 301 MATERIAL IS PLACED WITHIN 5 DAYS OF THE COMPLETED SUBBASE WORK AT EACH LOCATION.

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN LOCATION 2 - 50 CU. YD. LOCATION 4 - 115 CU. YD.

# RESIDENCE AND COMMERCIAL DRIVES

An estimated quantity of Item 448 Asphalt Concrete has been included in the plan to be used as directed by the Engineer to pave approach areas to existing driveways. Paving shall typically extend 4' into the driveway (measured from the edge of pavement or paved shoulder if present).

There are 5 types of drives: concrete, asphalt, gravel, gravel with asphalt apron, and field/oil well drives. Field drives and oil well drives shall not be paved. Gravel drives shall be paved back 4' into the driveway unless otherwise directed by the engineer. Concrete and asphalt drives shall have butt joints or as short a asphalt taper as possible (preferred 4') as directed by the Engineer so as to provide a smooth transition. Gravel drives with asphalt aprons shall also have butt joints or as short a asphalt taper as possible (preferred 4') but only if the existing asphalt apron is in an acceptable condition to be paved over as directed by the Engineer. If the asphalt apron cannot be paved over (for example, broken into small pieces) as determined by the Engineer, it shall be removed before being paved back 4' into the driveway. All grading, prime or tack coat, materials, labor, equipment tools and incidentals necessary to complete the drives shall be included in the unit price bid for Item 448 Asphalt Concrete Surface Course, Type I, PG 70-22.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 70-22 LOCATION I - 63 CU.YD. ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 70-22 LOCATION 2 - 24 CU. YD.

### MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1, 7-16-04.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 70-22 AND ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 70-22

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 70-22 LOCATION I - 31 CU. YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 70-22 LOCATION I - 21 CU. YD.



# ITEM 209 LINEAR GRADING, AS PER PLAN

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER.

ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER
THE GRADER WORK IS COMPLETED AND NOT DISPOSED OF ON THE SITE, SHALL BE
REMOVED AND DISPOSED OF BY THE CONTRACTOR. ALL EQUIPMENT, LABOR,
OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED FOR
PAYMENT IN THE UNIT PRICE BID FOR ITEM 209 LINEAR GRADING, AS PER PLAN.
THIS WORK MAY BE INTERMITTENT AND SPREAD THROUGHOUT THE PROJECT LIMITS,
AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE
BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM 209 LINEAR GRADING, AS PER PLAN LOCATION I - 3 MILES

ITEM 604 MANHOLE, ADJUSTED TO GRADE ITEM 604 CATCH BASIN, ADJUSTED TO GRADE ITEM 638 VALVE BOX ADJUSTED TO GRADE

THESE ITEMS SHALL BE USED TO ADJUST MANHOLES, CATCH BASINS, AND VALVE BOXES LOCATED IN CUMBERLAND TO GRADE. ALL MATERIALS, LABOR EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED SHALL BE INCLUDED FOR PAYMENT WITH THE ABOVE ITEMS. IF THESE ITEMS ARE CURRENTLY AT GRADE, IT IS ASSUMED THAT THESE ITEMS SHOULD REMAIN AT GRADE AND THESE QUANTITIES MAY BE NON-PERFORMED.

ANY GAS VALVE BOXES AND TELEPHONE COMPANY MANHOLES ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE OWNERS.

ITEM 604 CATCH BASIN ADJUSTED TO GRADE. LOCATION I - II EACH

# PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE IS

CREATED FROM THE CENTER LINE TO THE EDGE OF PAVEMENT IN TANGENT

SECTIONS AND SHALL FOLLOW EXISTING SUPERELEVATIONS WHERE APPLICABLE.

THIS MAY REQUIRE ADDITIONAL MILLING DEPTH DUE TO EXISTING GRADER

PATCHES AND PAVEMENT REPAIR. ALL SPECIFICATIONS OF ITEM 254 SHALL

APPLY.

THE QUANTITIES FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS
PER PLAN ARE CARRIED TO THE SUB-SUMMARIES FOR THE ABOVE DESCRIBED PURPOSE.
THE GRINDINGS FROM THE PLANING OPERATION SHALL BE DELIVERED TO THE OHIO
DEPARTMENT OF TRANSPORTATION: OUTPOST LOCATED AT 15385 CHANDLERSVILLE
ROAD, CUMBERLAND, OHIO. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID
FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

# ITEM 606 GUARDRAIL TYPE 5. AS PER PLAN

AN ESTIMATED QUANTITY FOR PLACEMENT OF GUARDRAIL AT GUE 340-0.10 AND MUS 340-3.11
HAS BEEN CARRIED TO THE GENERAL SUMMARY. THIS ITEM SHALL INCLUDE THE PLACING OF
ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NEEDED TO COMPLETE THE
WORK DESCRIBED ABOVE AND SHALL BE PAID FOR UNDER ITEM 606 GUARDRAIL TYPE 5,
AS PER PLAN.

LOCATION 2 - 150 L.F. TYPE 5 GUARDRAIL, 2 - ANCHOR ASSEMBLY TYPE A LOCATION 4 - 150 L.F. TYPE 5 GUARDRAIL, 2 - ANCHOR ASSEMBLY TYPE A

# MAINTENANCE OF TRAFFIC

PLACING OF THE ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE SHALL OCCUR AS CLOSE BEHIND THE PLANING OPERATION AS POSSIBLE, WHERE APPLICABLE, SUCH THAT TRAFFIC SHALL NOT BE MAINTAINED ON THE PLANED SURFACE AT THE END OF THE WORK DAY.

# ITEM 202 WEARING COURSE REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING ASPHALT CONCRETE PAVEMENT

A DEPTH OF 5 INCHES. THE INTENT IS TO REPLACE THE DAMAGED ASPHALT

AND TO CREATE A SMOOTH SURFACE BEFORE PLACING THE PROPOSED

INTERMEDIATE AND SURFACE COURSES. THE REPLACEMENT MATERIAL SHALL BE ITEM

448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 70-22, ALL MATERIALS,

EXCLUDING ITEM 448, LABOR, EQUIPMENT, TRAFFIC CONTROL AND INCIDENTALS

NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN

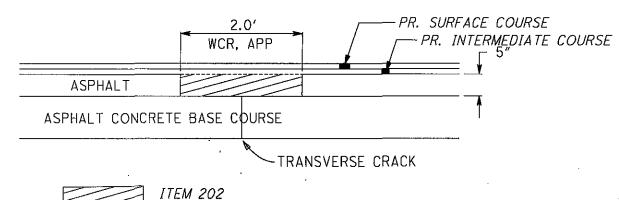
THE UNIT PRICE BID FOR ITEM 202 WEARING COURSE REMOVE, AS PER PLAN. THIS

WORK SHALL BE PERFORMED ON APPROXIMATELY 60 OF THE TRANSVERSE CRACKS

LOCATED WITHIN THE WORK LIMITS AT THE DIRECTION OF THE PROJECT ENGINEER,

ALL REPAIR AREAS SHALL BE INLAID WITH ITEM 448 ASPHALT CONCRETE BEFORE

OPENING TO TRAFFIC.



WEARING COURSE REMOVED. A.P.P.

20.5' x 2' / 9 = 4.6 SY/JOINT 60 JOINTS x 4.6 SY/JT = 276 SY

#### LOCATION 2:

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 202 WEARING COURSE REMOVED, AS PER PLAN

276 S. Y.

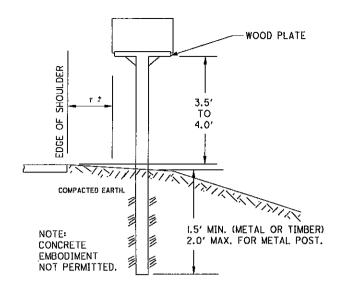
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 70-22

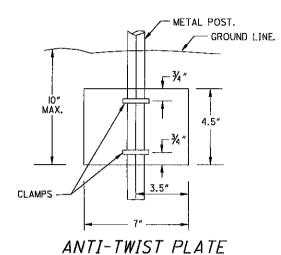
38 C.Y.

 $\mathbf{\omega}$ 

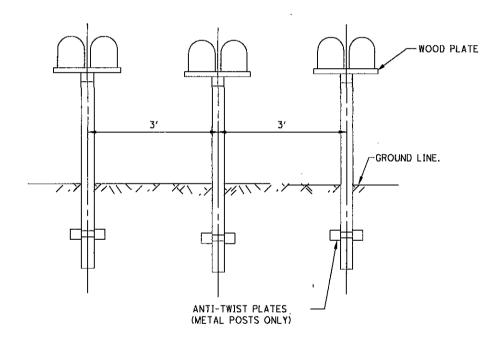
AIL

# MAILBOX DETAILS

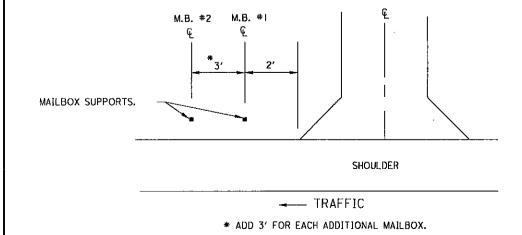




TYPICAL MAILBOX LOCATION



# GROUP MAILBOX INSTALLATION



# ITEM SPECIAL - MAILBOX SUPPORT

# DESCRIPTION

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATION SPECIFIED IN THE PLAN. OR OTHERWISE ESTABLISHED BY THE ENGINEER. THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING POSTS AND OTHER MATERIAL NOT CONSIDERED SALVAGEABLE AND DISPOSED OF IN ACCORDANCE WITH 202.02.

#### MATERIAL S

WOOD POSTS SHALL BE NOMINAL 4" x 4" SQUARE OR 4" DIAMETER ROUND, ALL WOOD INCLUDING POST AND PLATES SHALL CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181. HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

# SETTING POSTS

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03 AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

#### MOUNTING BOXES

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

### BASIS OF PAYMENT

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. FOR THE TYPE SPECIFIED. COMPLETE IN PLACE.

# PAYMENT WILL BE MADE UNDER:

ITEM UNIT DESCRIPTION SPECIAL EACH MAILBOX SUPPORT SYSTEM SINGLE SPECIAL EACH MAILBOX SUPPORT SYSTEM DOUBLE

#### QUANTITY

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE

SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE - LOCATION I - 2 EACH SPECIAL MAILBOX SUPPORT SYSTEM, DOUBLE - LOCATION I - I EACH SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE - LOCATION 2 - I EACH

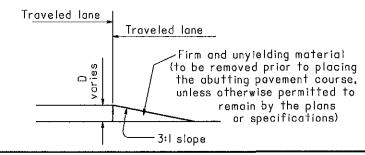
#### GENERAL NOTES

- I. It is intended that this drawing be used for treatment of drop-offs that develop during construction operations, and that are not otherwise provided for in the construction plans. Where the plans do not provide specific items for labor, equipment, or materials to implement the drop-off treatments specified hereon, they shall be included for payment in the lump sum bid for Item 614 - Maintaining Traffic.
- While the need for certain advisory signing is noted hereon, it is not intended that this be indicative of all signing that may be required to advise or warn motorists, and all requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) must be fulfilled.
- 3. In urban or otherwise heavily developed areas where pedestrians and/or bicyclists may be present in significant numbers, additional signing and protective measures other than those shown hereon may be required.
- 4. The drop-off treatment selected for use at any given location shall be as appropriate for the prevailing conditions at the site.
- 5. Where concrete barrier is specified, it shall be in accordance with Standard Construction Drawing MC-9.2 and Item 622.
- 6. When drums are specified for a dropoff condition, a minimum number of four drums shall be used. Spacing shall be as indicated in the plans or as specified in the OMUTCD.
- 7. When OW-151 (Low Shoulder) signs or OW-171 (Uneven Lanes) and OWP-171 signs are required, they shall be placed 750' in advance of the condition, on all intersecting entrance ramps within the limits of the condition and immediately beyond all intersecting roadways within the limits of the condition. When the dropoff condition extends more than one-half mile, additional signs should be erected at intervals of one mile or less.
- 8. For locations, such as at ramps, lane shifts, lane closures, etc., where traffic is required to negotiate any difference in elevation between pavements, a 3:1 slope treatment similar to the Optional Wedge Treatment shall be provided.
- 9. Portable concrete barrier shall be placed on the same level as the traffic surface and shall not encroach on lane width(s) designated as the minimum required for traffic use. Where drums are used, and their presence would reduce traveled lane widths to less than 10', drums may be placed on the opposite level from that of traffic provided the dropoff depth does not exceed 5" and approval is granted by the Project Engineer.
- 10. Pavement Repairs (or similar work):
  - a. Lengths greater than 60 feet utilize appropriate treatment from Condition I.
  - b. Lengths of 60 feet or less repairs shall be effected in accordance with 255.08. Drums may be used as a separator adjacent to the traveled lane.

# OPTIONAL WEDGE TREATMENT

(MILLING OR RESURFACING)

- This treatment may be used when permitted for Condition I only.
- 2. OW-171 and OWP-171 signs required.



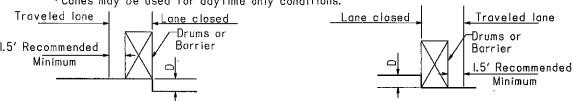
#### CONDITION 1

#### DROPOFFS BETWEEN TRAVELED LANES

 These treatments are to be used for resurfacing, pavement planing, excavation, etc. between or within traveled lanes.

D (In.)	Treatment	
<u>&lt;11/2</u>	Erect OW-171 and OWP-171 signs.	
>11/2-3	l) Lane closure utilizing drums as shown below OR 2) Optional Wedge Treatment	
>3-5	Lane closure utilizing drums as shown below.	
>5	Lane closure utilizing portable concrete barrier as shown below.	

\*Cones may be used for daytime only conditions.



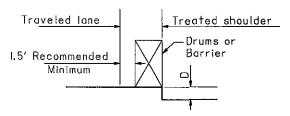
### CONDITION II

#### DROPOFFS WITHIN GRADED SHOULDER AREA

- The treatments indicated below are for use in conjunction with resurfacing, planing, or excavations within the graded shoulder area.
- 2. The graded shoulder area is that flat or gradually sloping area between the edge of a normally traveled lane and the more steeply sloping ditch foreslope or embankment slope. Its surface may be soil or turf, and/or it may be inclusive of a "treated" area (improved with aggregates, asphaltic materials, or concrete). For the purposes herein, its maximum width shall be considered to be twelve (12) feet.

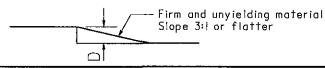
D (In.)	Treatment
≤11/ <sub>2</sub>	<ul><li>I) If edgelines are present, no treatment necessary</li><li>OR 2) Erect OW-171 and OWP-171 signs.</li></ul>
>I <sup>1</sup> / <sub>2</sub> -5	I) If min. lane width requirements can be met, maintain lanes utilizing drums as shown below OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums OR 3) Optional Shoulder Treatment.
>5-12 Daylight only	If min. lane width*equirements can be met, maintain lanes utilizing drums as shown below.
>5-24	1) If min. lane width requirements can be met, maintain lanes utilizing portable concrete barrier as shown below. OR 2) If min. lane width requirements cannot be met, close adjacent lane utilizing drums.
>24	Lane closure utilizing portable concrete barrier as shown below.

\*Minimum lane widths shall be 10' unless otherwise specified in the plans.



#### OPTIONAL SHOULDER TREATMENT

- This treatment may not be used within a bituminous shoulder where a hot longitudinal joint per 401.15 is required.
- 2. OW-151 signs required.



# GUE-146-0.00

# CONDITION III

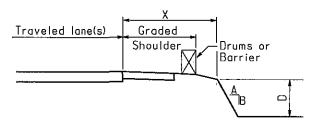
DROPOFFS BEYOND GRADED SHOULDER OR BACK OF CURB

- i. See Note 2 under Condition II.
- 2. Use Chart A or B below, as applicable.

#### CHART A

USE FOR: I. Uncurbed Facilities.

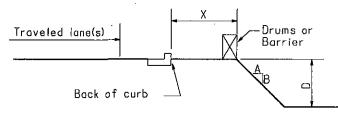
- 2. Curbed Facilities, where:
  - a. Curbs are less than 6" in height.
  - b. Curbs are 6" or greater in height and the legal speed is greater than 40 mph.



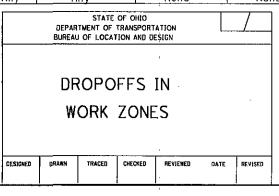
X	D	A / D	Treatment Ro	equired
(Ft.)	(In.)	A/B	Day	Night
0-4	Any	Any	(a)	(a)
4-30	Any	3:1 or Flatter	None	None
4-12	ζ3	Steeper than 3:1	None	None
4-12	>3-√12	Steeper than 3:1	Drums	Drums
4-12	>12	Steeper than 3:1	Drums	Barrier
>12-20	≤12	Steeper than 3:1	None	None
>12-20	>12-<24	Steeper than 3:1	Drums	Drums
>12-20	>24	Steeper than 3:1	Drums	Barrier
>20-30	≤24	Steeper than 3:1	None	Drums
>20-30	>24	Steeper than 3:1	Drums	Barrier
>30	Any	Any	None	None
(a) Us	e treatm	nent specified under	Condition II.	

# CHART B

USE FOR: Curbed facilities, where the curb is 6" or greater in height and the legal speed is 40 mph or less.

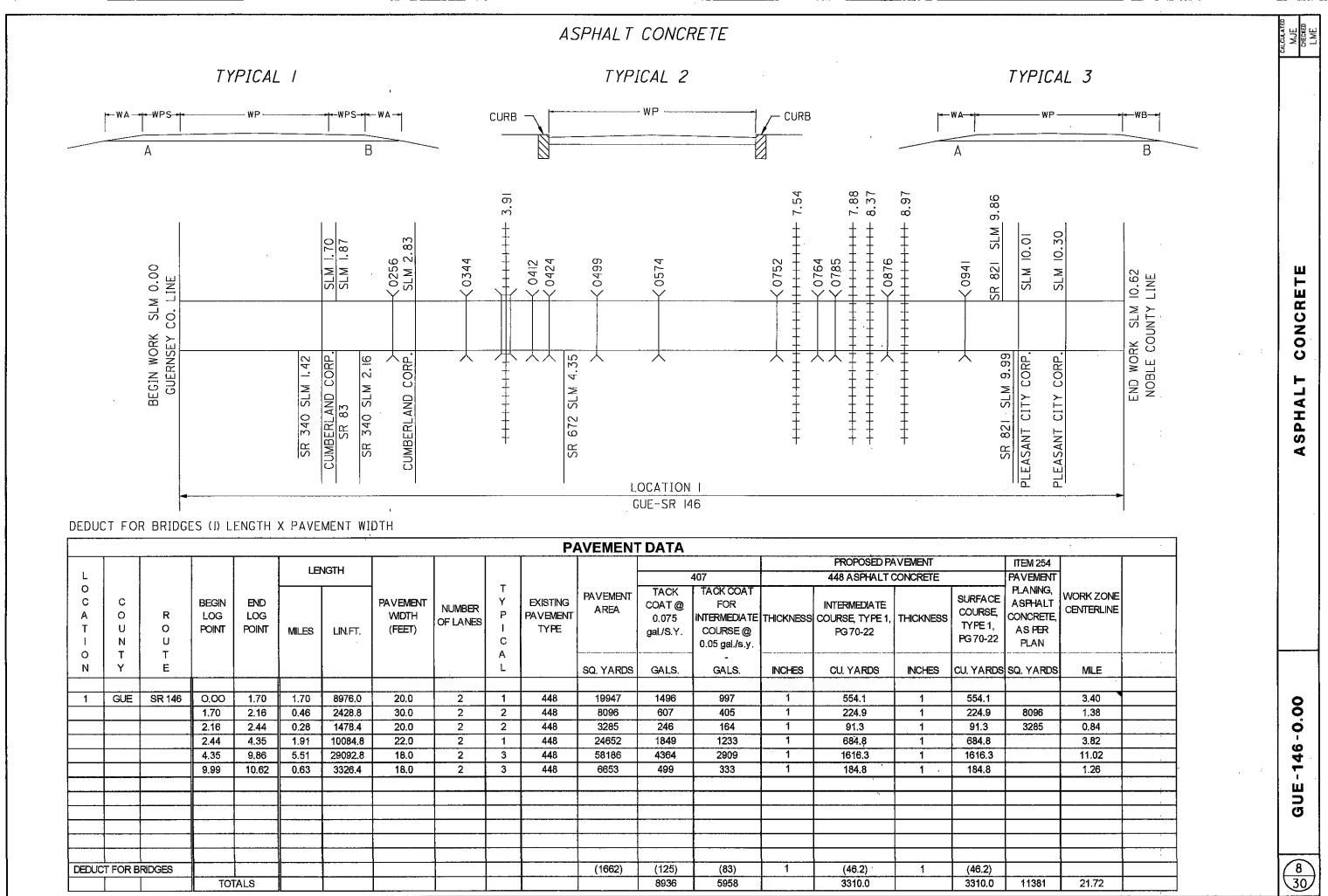


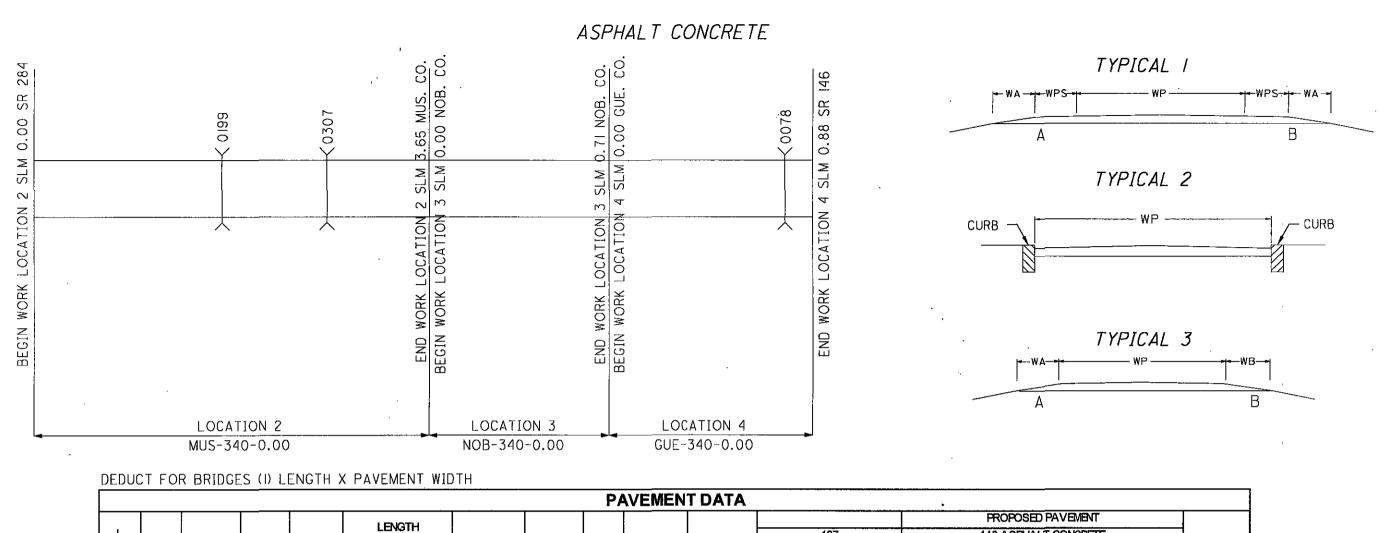
X	D	 A/B	Treatment R	equired
(Ft.)	(In.)	A/D	Day	Night
0-10	<12	Any	None	Drums
0-10	>12	Any	Drums	Drums
>10	Any	Any	None	None '



7 30

146007.mgn 5-27-05



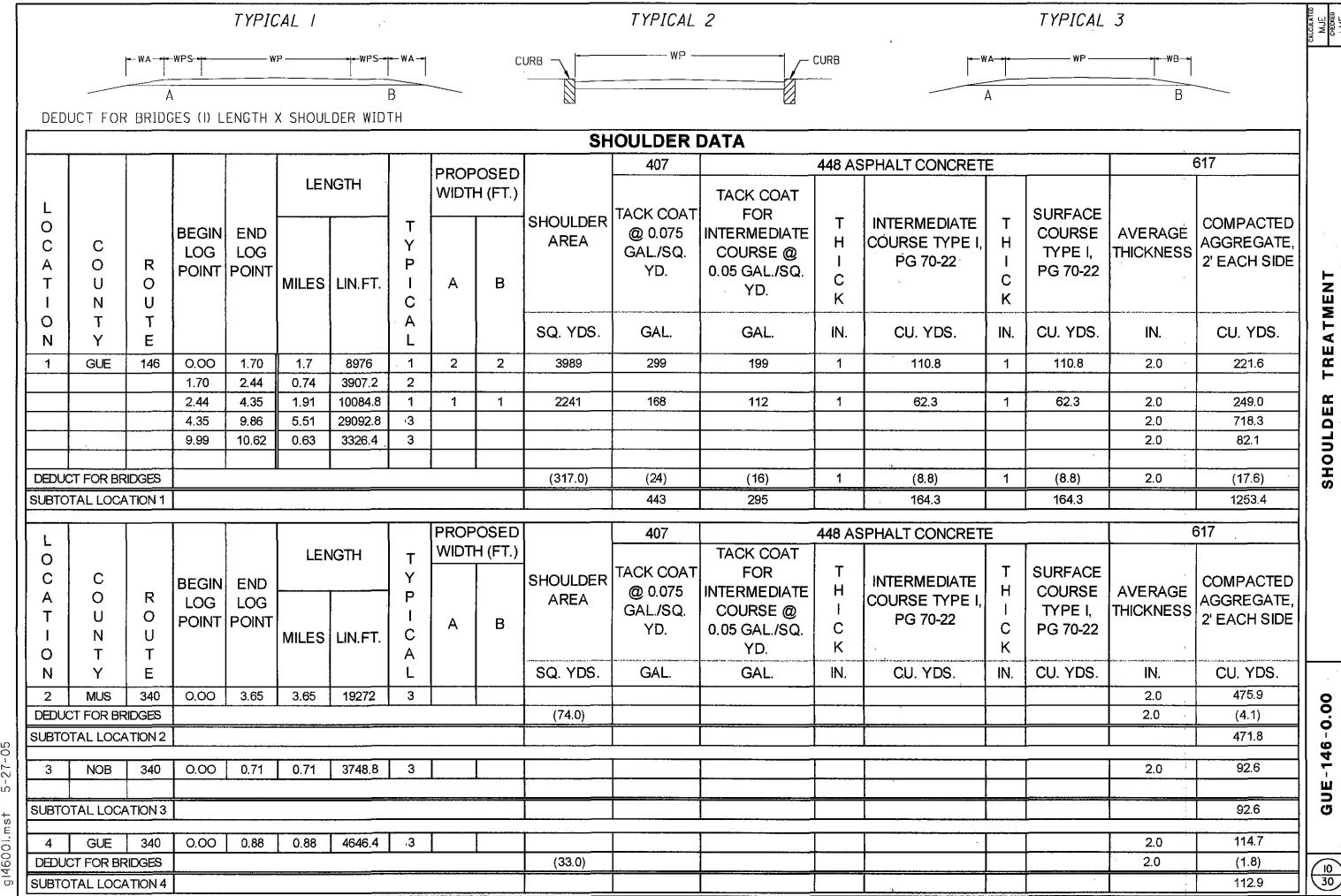


									۲/	AVEMEN	IDATA							
$\Box$					LEN	NGTH				407		407		PROPOSED PA				
_							]		-				407		448 ASPHALT	CONCRETE		
O C A T I	COUN	R 0 บ	BEGIN LOG POINT	END LOG POINT	MILES	LIN.FT.	PAVEMENT WIDTH (FEET)	NUMBER OF LANES	T Y P I C	EXISTING PAVEMENT TYPE	PAVEMENT AREA	TACK COAT @ 0.075 gal./S.Y.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 gal./s.y.	THICKNESS	INTERMEDIATE COURSE, TYPE 1, PG 70-22	THICKNESS	SURFACE COURSE TYPE 1, PG 70-22	WORK ZONE CENTERLINE
O N	T Y	E							A L		SQ. YARDS	GALS.	GALS.	INCHES	CU. YARDS	INCHES	CU. YARDS	MILE
2	MUS	SR 340	0.00	1.86	1.86	9820.8	20.5	2	3	448	22370	1678	1119	1	621.4	1	621.4	3.72
		· · · · · · · · · · · · · · · · · · ·	1.86	3.65	1.79	9451.2	18.0	2	3	448	18902	1418	945	1	525.1	1	525.1	3.58
TOUCEC	FOR B	RIDGES									(387)	(29)	(19)	1	(10.8)	1	(10.8)	
			тот	ALS								3067	2045		1135.7		1135.7	7.30
3	NOB	SR 340	0.00	0.71	0.71	3748.8	18.0	2	3	448	7498	562	375	1	208.3	1	208.3	1.42
DEDUCT	FOR B	RIDGES												1	-	1		
			тот	ALS								562	375		208.3		208.3	1.42
4	GUE	SR 340	0.00	0.88	0.88	4646.4	18.0	2	3	448	9293	697	465	1	258.1	1	258.1	1.76
DEDI ICI	FOR B										(175)	(13)	(9)	1	(4.9)	1	(4.9)	
	TONE		TOT	ALS							(110)	684	456	•	253.2	,	253.2	1.76

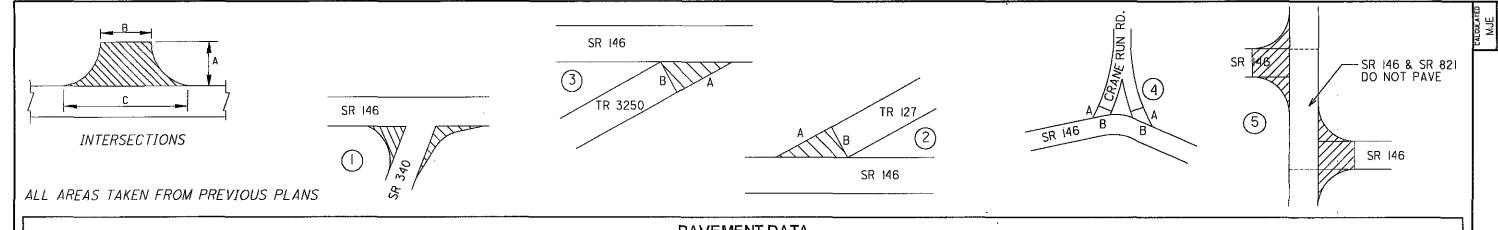
GUE-146-0.00

CONCRETE

ASPHALT

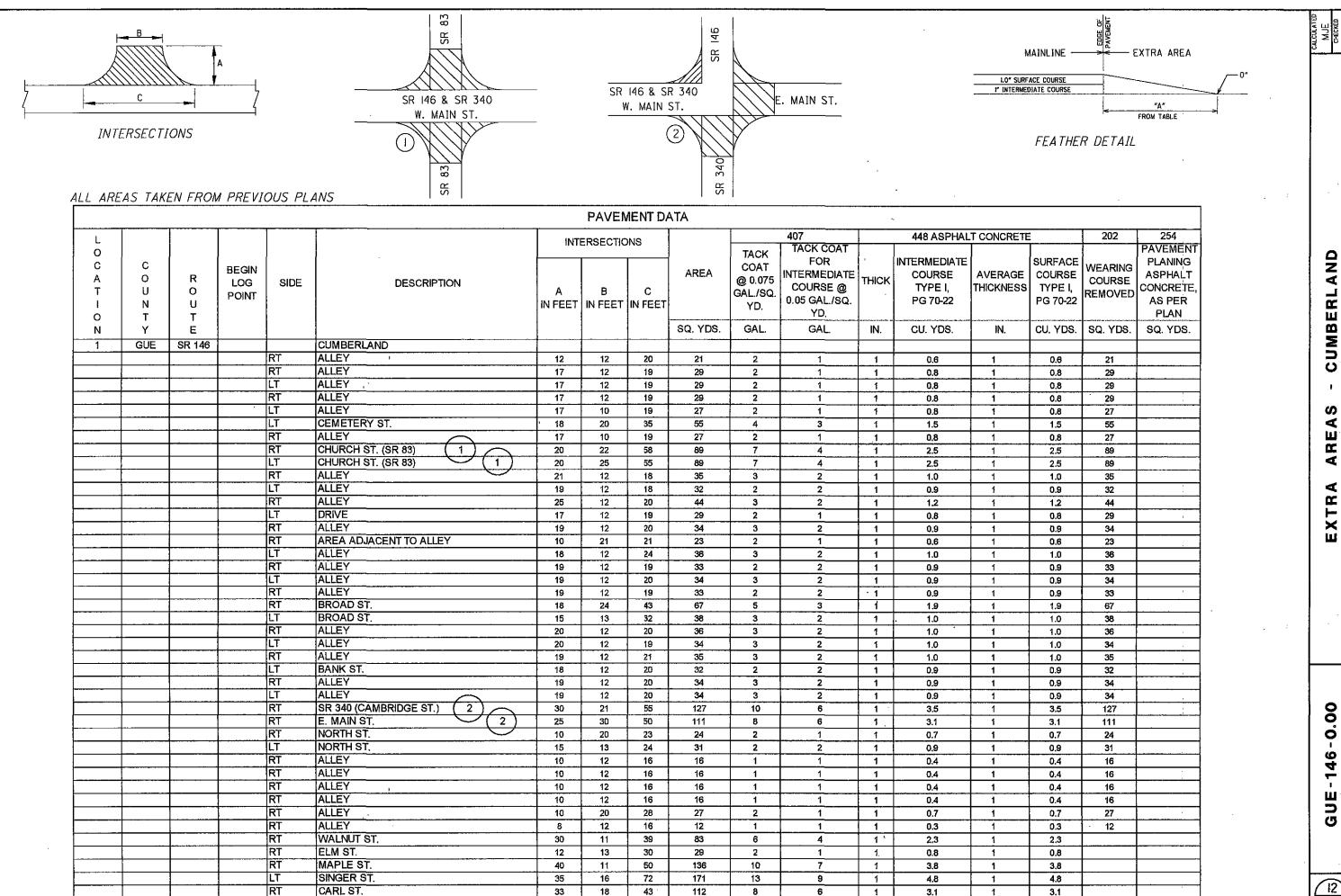


q146001.mst



							PAVE	MENT DA	ATA		•						
L	<u> </u>					INT	ERSECTION	NS			407		448 ASPHAL	T CONCRETE		202	254
O A T I	C O U N T	R O U T	BEGIN LOG POINT	SIDE	DESCRIPTION		B IN FEET	С	AREA	TACK COAT @ 0.075 GAL./SQ. YD.	FOR INTERMEDIATE COURSE @ 0.05 GAL./SQ. YD.	THICK	INTERMEDIATE COURSE TYPE I, PG 70-22	AVERAGE THICKNESS	SURFACE COURSE TYPE I, PG 70-22		PAVEMEN PLANING ASPHALI CONCRETI AS PER PLAN
V	Y	E							SQ. YDS.	GAL.	GAL.	IN.	CU. YDS.	IN.	CU. YDS.	SQ. YDS.	SQ. YDS.
1	GUE	SR 146		RT	SCOTT ROAD .	45	20	86	265	20	13	1	7.4	1	7.4		
				RT	SR 340 - SEE LOCATION 4 SHOWN BELOW		<del>                                     </del>									ĺ	
				· · · · · · · · · · · · · · · · · · ·	CUMBERLAND SEE SHEET 12												
				LT	HOWELL RD. (CO, RD. 19)	35	20	83	200	15	10	1	5.6	1	5.6		
	· ·			RT	IOWA RD. (TWP. RD. 127)	32	16	53	123	9	6	1	3.4	1	3.4		
				RT	SR 672	75	20	105	521	39	26	1	14.5	1	14.5	521	_
				LT	IOWA RD. (TWP. RD. 127) ( 2 )	63	80		280	21	14	1	7.8	1	7.8		
				RT	TRIPLETT LANE (TWP. RD. 3250) ( 3 )	22	73		89	7	4	1	2.5	1	2.5		
				RT	GARVIN SCHOOL RD.	31	99		171	13	9	1	4.8	1	4.8		
				LT	CRANE RUN RD. (CO. RD. 26) ( 4 )	40	17	84	224	17	11	1	6.2	1	6.2	·	_
				LT	CRANE RUN RD. (CO. RD. 26) 4	31	96		165	12	8	1	4.6	1	4.6		
				LT	HICKLE RD. (TWP. RD. 326)	27	15	51	99	7	5	1	2.8	1	2.8	:	
				RT	TWP. RD. 3266 STEPHENS ROAD	29	17	61	126	9	6	1	3.5	1	3.5		
					SR 146 @ SR 821 (5)	70	26	96	474	36	24	1	13.2	1	13.2	474	_
					SR 146 @ SR 821 5 )	80	28	94	542	41	27	1	15.1	1	15.1	542	
					MAIN ST. PLEASANT CITY	22	29	42	87	7	4	1	2.4	1	2.4	87	
				LT	TWP. RD. 2389 MARKETSVILLE ROAD	22	18	50	83	6	4	1	2.3	1	2.3		
					SUBTOTAL LOCATION 1					259	171		96.1		96.1	1624	
2	MUS	SR 340	<del> </del>	CL	AT SR 284	65	21	123	520	39	26	1	14.4	1	14.4	520	
	100		<del>                                     </del>	RT	PROUTY	80	40	15	244	18	12	2	13.6	2	13.6	020	_
			<del>-</del>	LT	SISK RD.	32	15	70	151	11	8	1	4.2	1	4.2		
				LT	INTERNATIONAL DR.	35	25	73	191	14	10	1	5.3	1	5.3		
							† <del></del>		, , , ,			<u> </u>				·	
			<del></del>	1	TOTALS LOCATION 2	·	<u></u>	·		82	56		37.5	-	37.5	520	
	<u> </u>	<u> </u>				<del> </del>	<del> </del>		······································		•						
4	GUE	SR 340		LT	ZEBEDEE RD.	30	15	57	120	9	6	1	3.3	1	3.3		
<u>-</u>				CL	AT SR 146 (1)	75	2	104	442	33	22	1	12.3	<del>                                     </del>	12.3		
				<del> </del>	, , , , , , , , , , , , , , , , , , , ,	<u> </u>	† <del></del>	1 . 4 - 7	• · r • • · · · · · · · · · · · · · · ·			•		· ·	~		-
	1	<del>1</del>	<u> </u>		TOTALS LOCATION 4	<u>.l</u>	-L		· · · · · · · · · · · · · · · · · · ·	42	28		15.6		15.6		<del>                                     </del>

EXTRA



147

98

54.5

54.5

1432

SUBTOTAL LOCATION 1

5-27-05 G146002.MEA

CUMBERLAND

S

⋖

Ш

⋖

⋖

EXTR.

							RIDGE DECK	DATA					,
L					202	,	407		448 ASPHALT	CONCRET	E		
O C A T I O	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN. FT.	BRIDGE DECK AREA	WEARING COURSE REMOVED DEPTH VAR.	TACK COAT @ 0.075 GAL./SQ. YD.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./SQ. YD.		INTERMEDIATE COURSE TYPE I, PG 70-22	THICK	SURFACE COURSE TYPE I, PG 70-22		
N				SQ. YDS.	SQ. YDS.	GAL.	GAL.	IN.	CU. YDS.	IN.	CU. YDS.	MER ET GER AF EINNEUM AN VERVENWEN AN VERVENWEN VERSEN VERWEN VERWENNE VERSEN VER ALLE VER	Mind St. Mary C. C. Martin for Parlicular Association of the desired in Parlicular Conference of the C
1	GUE-146-0256	20	28	62	611								
	GUE-146-0344	22.33	28	69	611								
	GUE-146-0390	210	23.4	546	733					•			
	GUE-146-0410	130	27.5	397	611								
	GUE-146-0752	105	28.17	329	300								
	GUE-146-0785	100	25.7	286	300	_		<u> </u>					
	GUE-146-0941	31	30	103	673	8	5	1	2.9	<u> </u>	2.9		
	GUE-146-1002	94	24	251	200			· · · · · · · · · · · · · · · · · · ·		<del></del>		•	
-				1									
		- · · · · · · · · · · · · · · · · · · ·		<u> </u>									
				<u> </u>									
.													
	70741100470			0010	4000							·	
	STOTAL LOCATION	N 1		2043	4039	8	5		2.9		2.9		
	EDEDUCTS FOR ED ROADWAY	712.33	21	1662									
	E DEDUCTS FOR	712.00	21	1002					•				•
	ED SHOULDER	712.33	4	317					,				
										•	,		
	MUS-340-0186	78	23.08	200	456								·
	MUS-340-0294	88	25.5	249	600								<u> </u>
	BTOTAL LOCATION	N2		449	1056								
	DEDUCTS FOR												:
	ED ROADWAY	166	21	387						<u></u>			
	E DEDUCTS FOR ED SHOULDER	166		74	}								
PAVE	TO SHOULDER	100	4	74		T			<u> </u>		Γ		Т
4	GUE-340-0078	75	32.8	273	500								
<del> </del>							,						
SUE	STOTAL LOCATION	<u></u> N 4		347	500								<u> </u>
BRIDGE	E DEDUCTS FOR							I			L		
	ED ROADWAY	75	21	175						<del></del>			
	E DEDUCTS FOR ED SHOULDER	75	4	33									
	E DEDUCTION	<del>L</del>	<u> </u>	1	ı								·

(BRIDGE LENGTH X PAVEMENT WIDTH) (WHEN APPLICABLE, APPROACH SLABS ADDED FOR CALCULATION PURPOSES)

TOTAL CARRIED TO SHEETS 8 & 9

GUE-146-0.00

DECK

BRIDGE

# LOCATION I

#### GUE-146-0256

BUTT JOINT AT BRIDGE ENDS, 125' TAPERS AT EACH BRIDGE END.

### GUE-146-0344

BUTT JOINT AT BRIDGE ENDS, 125' TAPERS AT EACH BRIDGE END.

### GUE-146-0390

BUTT JOINT AT APPROACH SLABS, 150' TAPERS AT EACH END OF APPROACH SLABS.

#### GUF-146-0410

BUTT JOINT AT APPROACH SLABS, 125' TAPERS AT EACH END OF APPROACH SLABS.

# GUE-146-0752

WEST END - BUTT JOINT AT APPROACH SLABS, 125' TAPERS AT END OF APPROACH SLAB. EAST END - BUTT JOINT AT APPROACH SLABS, 10' TAPERS AT END OF APPROACH SLAB.

#### GUE-146-0785

WEST END - BUTT JOINT AT APPROACH SLABS, 100' TAPERS AT END OF APPROACH SLAB. EAST END - BUTT JOINT AT APPROACH SLABS, 50' TAPERS AT END OF APPROACH SLAB.

### GUE-146-0941

MILL I" OFF BRIDGE AND APPROACH SLAB, 100' TAPER AT EACH END OF APPROACH SLABS. FILL WITH 2" OVERLAY SAME AS ROADWAY.

### GUE-146-1002

WEST END - BUTT JOINT AT APPROACH SLABS, 50' TAPERS AT END OF APPROACH SLAB. EAST END - BUTT JOINT AT APPROACH SLABS, 50' TAPERS AT END OF APPROACH SLAB.

# LOCATION 2

### MUS-340-0186

BUTT JOINT AT APPROACH SLABS, 125' TAPERS AT EACH END OF APPROACH SLABS.

# MUS-340-0294

BUTT JOINT AT APPROACH SLABS, 125' TAPERS AT EACH END OF APPROACH SLABS.

# LOCATION 4

# GUE-340-0078

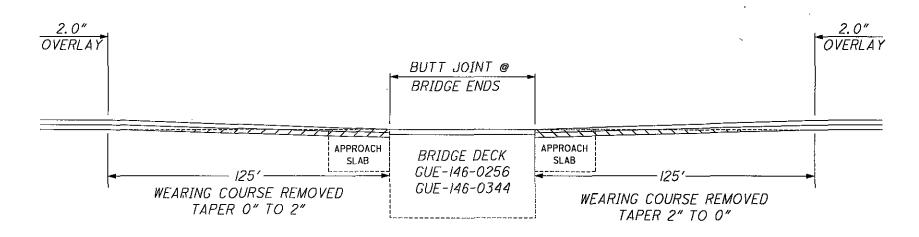
BUTT JOINT AT APPROACH SLABS, 125' TAPERS AT EACH END OF APPROACH SLABS.

# BRIDGE DEDUCTIONS

(BRIDGE LENGTH X PAVEMENT WIDTH)

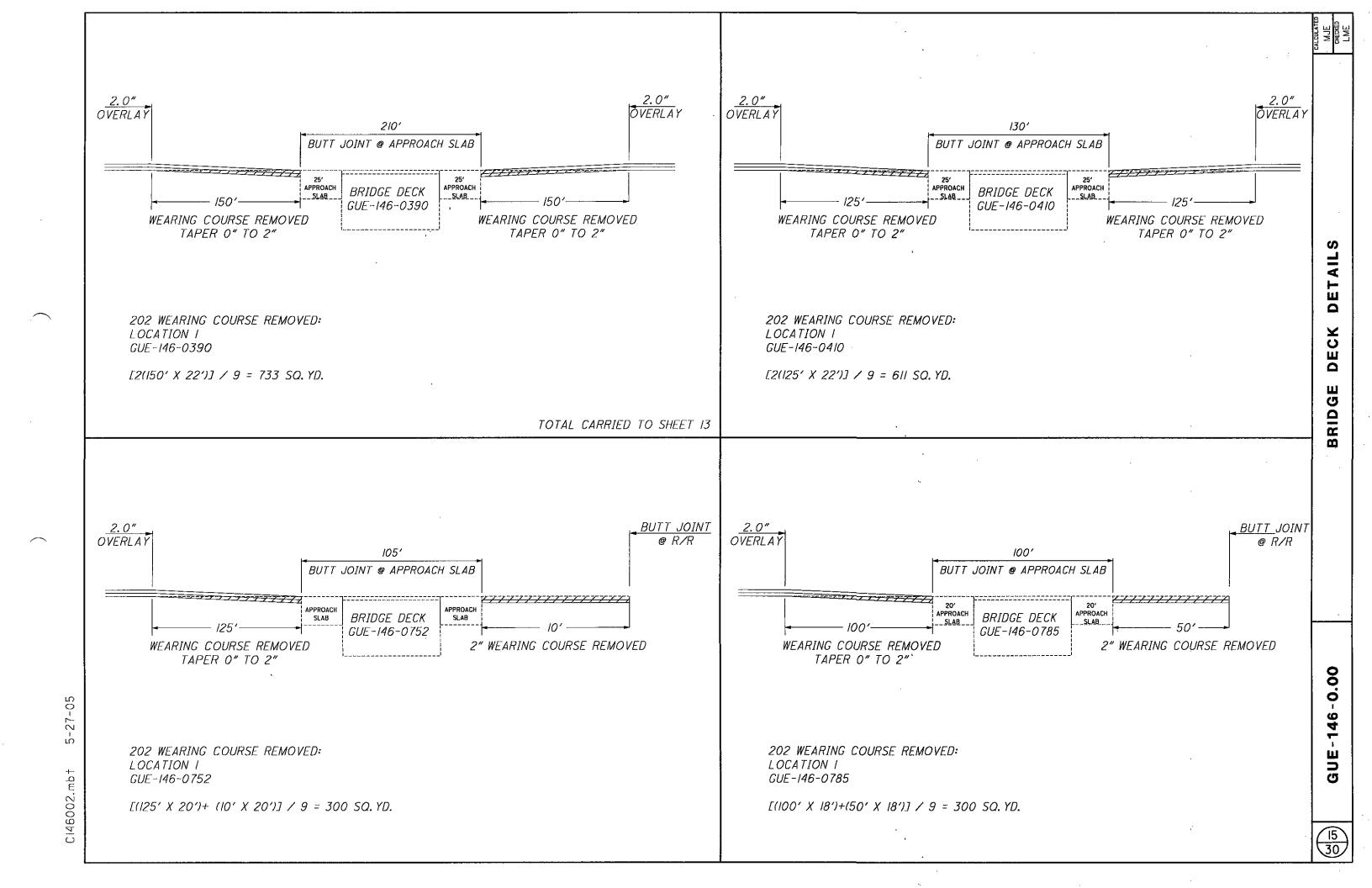
(APPROACH SLABS ADDED FOR CALCULATION PURPOSES)

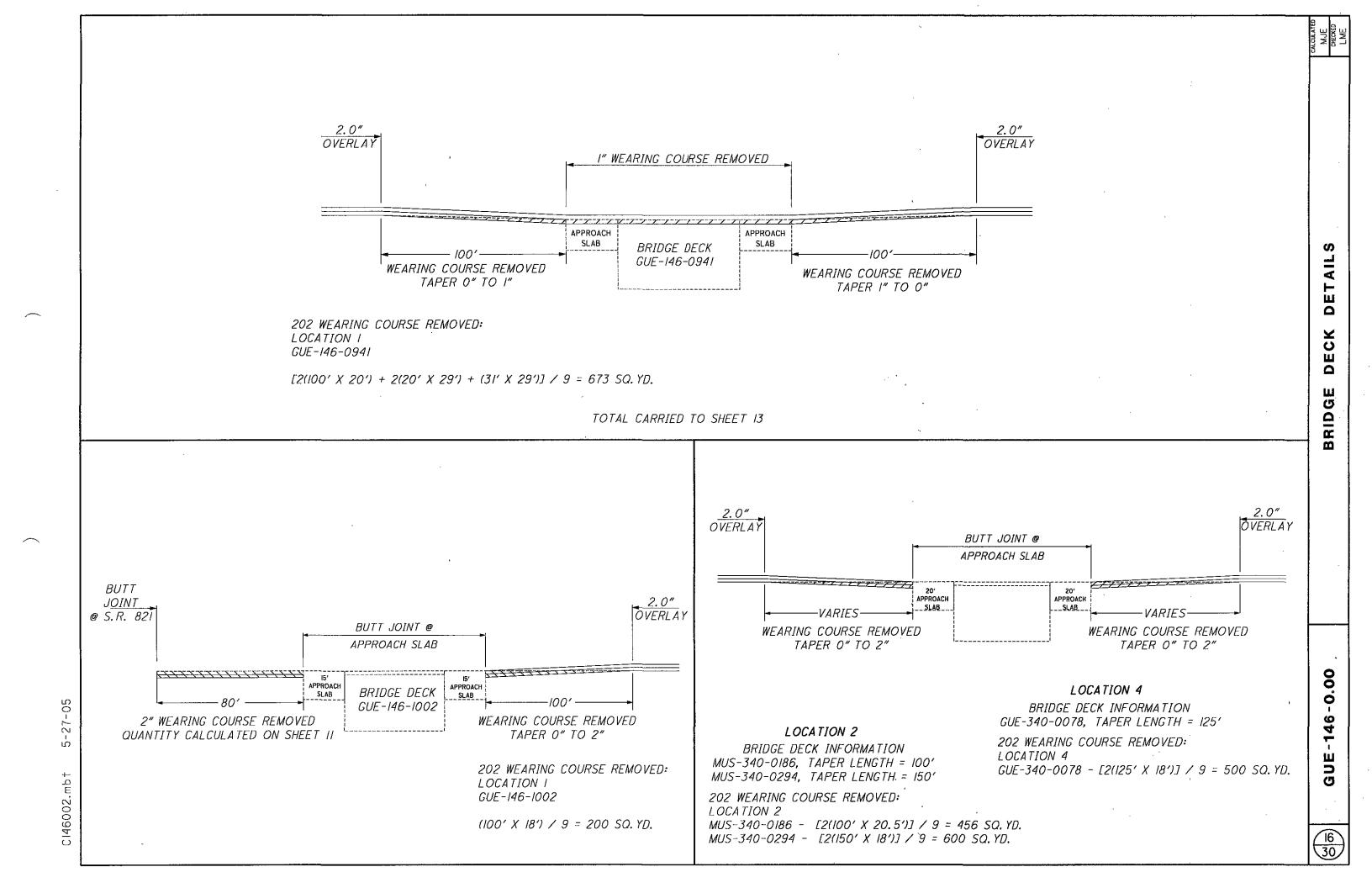
TOTAL CARRIED TO SHEETS 8 & 9

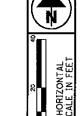


202 WEARING COURSE REMOVED: LOCATION | GUE-146-0256 - [2(125' X 22')] / 9 = 611 SQ. YD. GUE-146-0344 - [2(125' X 22')] / 9 = 611 SQ. YD.

TOTAL CARRIED TO SHEET 13





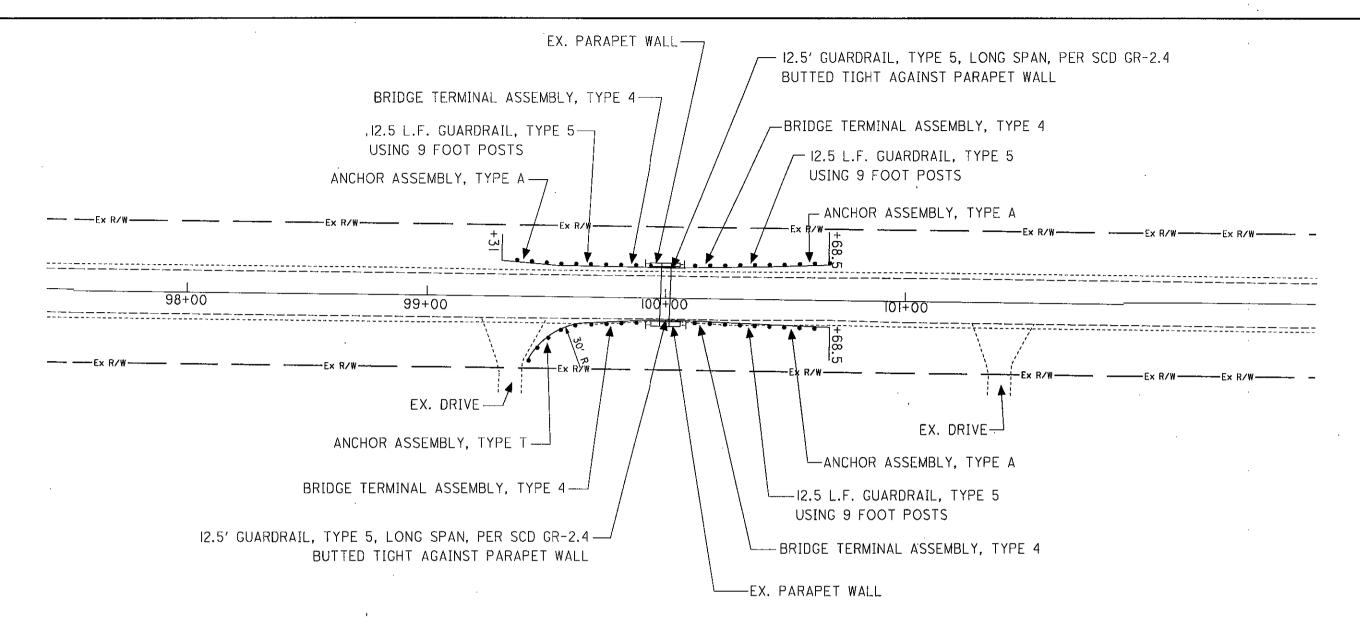


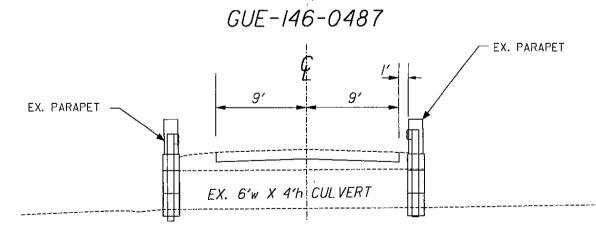
EPAIR  $\alpha$ 

-146

-0.00

<u>30</u>





#### UTILITIES

PLEASE SEE COMPLETE LIST OF UTILITIES LOCATED WITHIN THE LIMITS OF THE PROJECT ON SHEET 2. IT IS THE CONTRACTOR'S RESPONSIBILTY TO CONTACT UTILITY OWNERS TO VERIFY LOCATION OF UTILITIES WITHIN WORK LIMITS OF CULVERT REPLACEMENT.

#### **EROSION CONTROL**

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.

#### DEMOLITION DEBRIS

 $\bigcirc$ 

 $\bigcirc$ 

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE. LOCATION I

ITEM	EXTEN.	DESCRIPTION	QUANTITY
606	13030	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS	37.5 FT
606	17290	GUARDRAIL, TYPE 5, LONG SPAN	25 FT
606	35140	BRIDGE TERMINAL ASSEMBLY, TYPE 4	4 EACH
606	25000	ANCHOR ASSEMBLY, TYPE A	3 EACH
606	26500	ANCHOR ASSEMBLY, TYPE T	I EACH
626	00300	BARRIER REFLECTOR, TYPE A2	6 EACH
630	84900	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	4 EACH

QUANTITIES CARRIED TO GENERAL SUMMARY



Ш > CUL <del>ن</del> 8 S 46 GUE

> -0.00 -146

-BRIDGE TERMINAL ASSEMBLY, TYPE 4

101+00

ANCHOR ASSEMBLY, TYPE A

BRIDGE TERMINAL ASSEMBLY, TYPE 4

- 75 L.F. GUARDRAIL, TYPE 5

- 12.5' GUARDRAIL, TYPE 5, LONG SPAN, PER SCD GR-2.4

ANCHOR ASSEMBLY, TYPE A -USING 9 FOOT POSTS <u>anchor assembly, type a</u> 98+00

EX. STONE BLOCK-TO BE REMOVED

BRIDGE TERMINAL ASSEMBLY, TYPE 4-

50 L.F. GUARDRAIL, TYPE 5 —

USING 9 FOOT POSTS

99+00 EX. FIELD DRIVE

ANCHOR ASSEMBLY, TYPE T-

50 L.F. GUARDRAIL, TYPE 5 USING 9 FOOT POSTS

BRIDGE TERMINAL ASSEMBLY, TYPE 4-

12.5' GUARDRAIL, TYPE 5, LONG SPAN, PER SCD GR-2.4-

# TO BE REMOVED. SAWCUT AT GRADE LOCATION I

-PORTION OF EX. HEADWALL

ITEM	EXTEN.	DESCRIPTION	QUANTIT
202	11200	PORTIONS OF STRUCTURE REMOVED	I EACH
606	13030	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS	175 FT
606	17290	GUARDRAIL, TYPE 5, LONG SPAN	25 FT
606	35140	BRIDGE TERMINAL ASSEMBLY, TYPE 4	4 EACH
606	25000	ANCHOR ASSEMBLY, TYPE A	3 EACH
606	26500	ANCHOR ASSEMBLY, TYPE T	I EACH
626	00300	BARRIER REFLECTOR, TYPE A2	6 EACH
630	84900	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	2 EACH

102+00

QUANTITIES CARRIED TO GENERAL SUMMARY

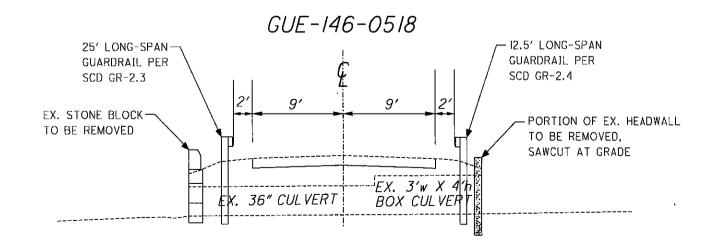
# UTILITIES

PLEASE SEE COMPLETE LIST OF UTILITIES LOCATED WITHIN THE LIMITS OF THE PROJECT ON SHEET 2. IT IS THE CONTRACTOR'S RESPONSIBILTY TO CONTACT UTILITY OWNERS TO VERIFY LOCATION OF UTILITIES WITHIN WORK LIMITS OF CULVERT REPLACEMENT.

#### **EROSION CONTROL**

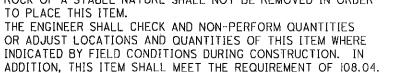
ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM.

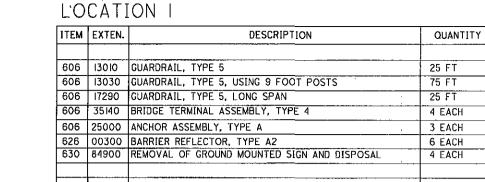
THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.



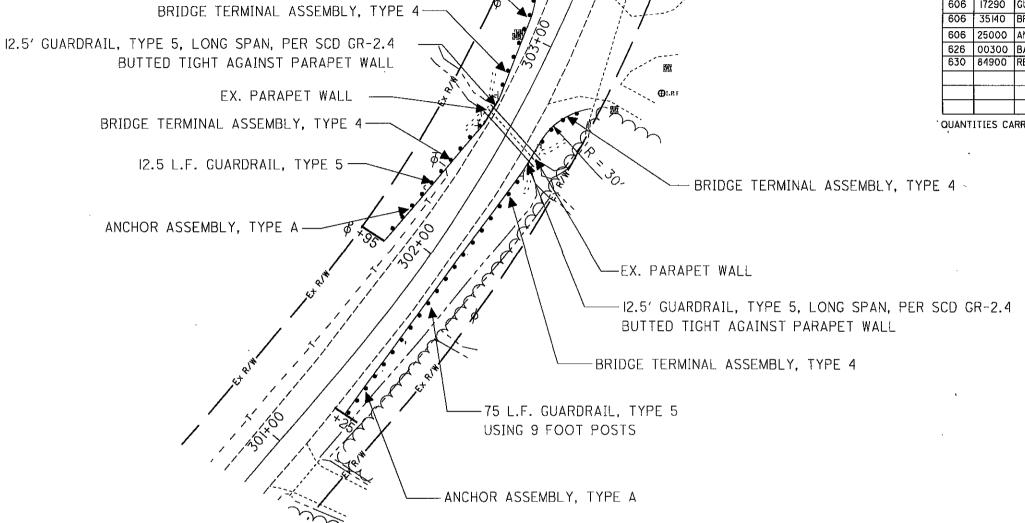
# DEMOLITION DEBRIS

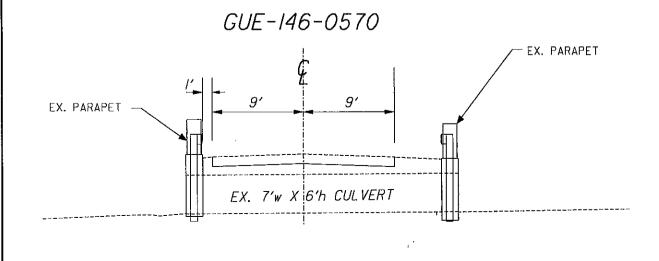
THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.





QUANTITIES CARRIED TO GENERAL SUMMARY





ANCHOR ASSEMBLY, TYPE A

12.5 L.F. GUARDRAIL, TYPE 5-

0

0

0

0

# UTILITIES

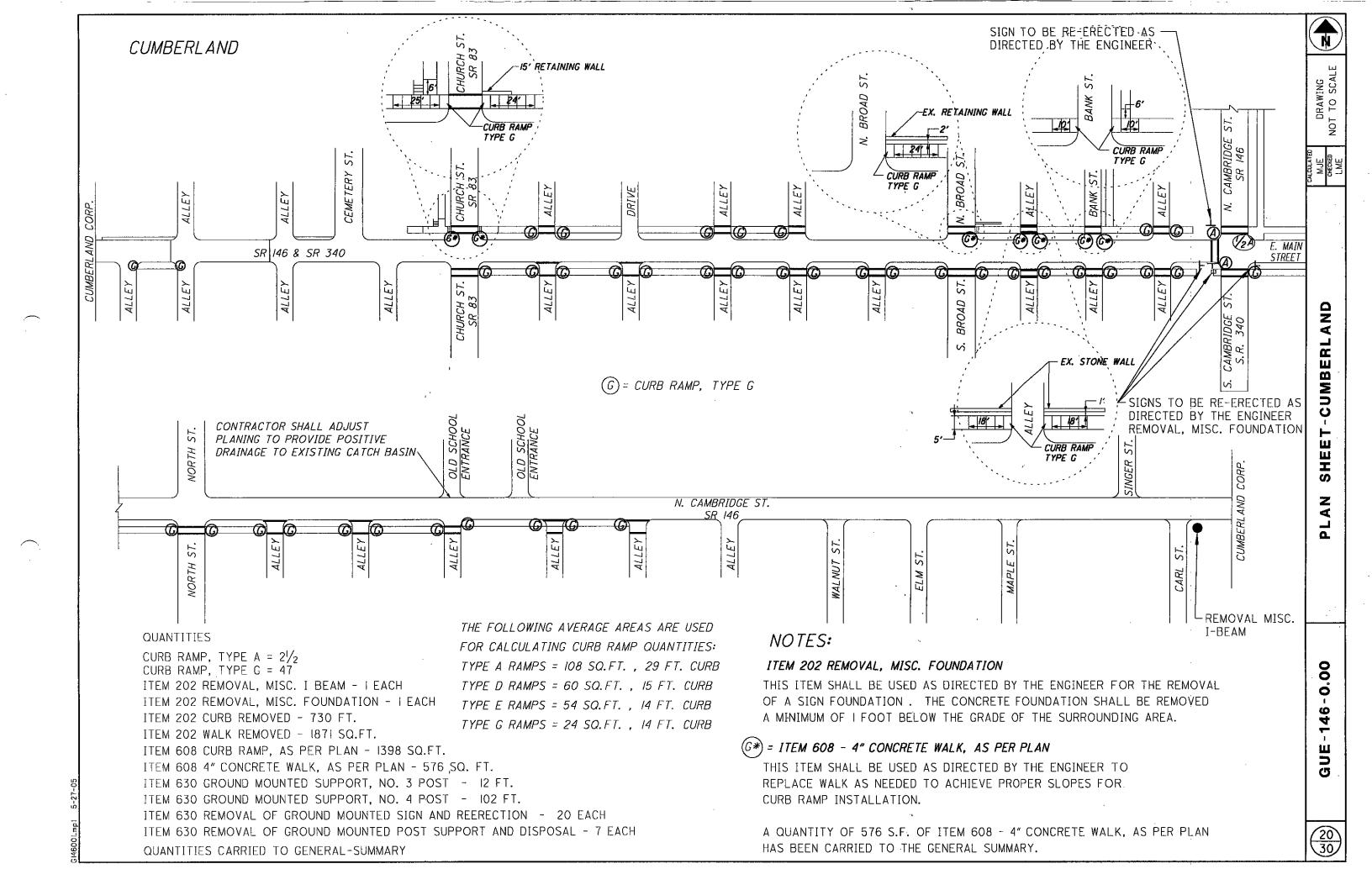
PLEASE SEE COMPLETE LIST OF UTILITIES LOCATED WITHIN THE LIMITS OF THE PROJECT ON SHEET 2. IT IS THE CONTRACTOR'S RESPONSIBILTY TO CONTACT UTILITY OWNERS TO VERIFY LOCATION OF UTILITIES WITHIN WORK LIMITS OF CULVERT REPLACEMENT.

#### **EROSION CONTROL**

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE

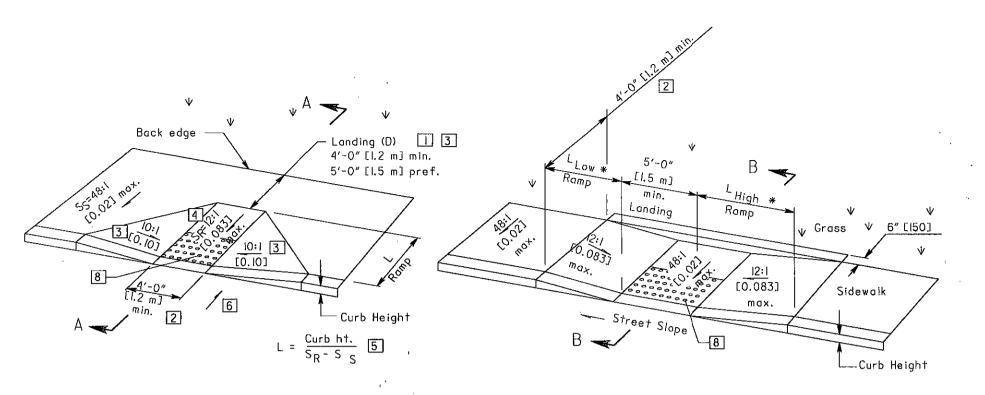
### **DEMOLITION DEBRIS**

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.



 $\alpha$ 

CURB

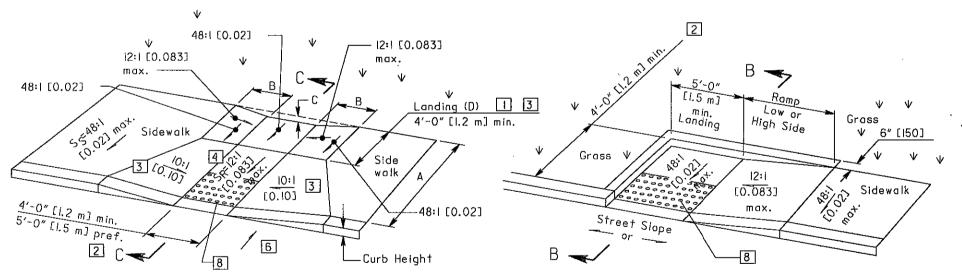


Ramp Length @ 1"/ft [0.083] Street Slope LOW SIDE\* LHIGH SIDE\* 0.01 5'-5" [l.6 m] 6'-10" [2.1 m] 0.02 4'-10" [1.5 m] 7'-11" [2.4 m] 0.03 4'-5" [1.3 m] 9'-5" [2.9 m] 0.04 4'-1" [l.2 m] 11'-8" [3.6 m]0.05 3'-9" [l.l m] 15'-2" [4,6 m] \* Measured along the back of a 6" [150] high curb.

Curb ht. L HIGH 7 0.083 - Street Slope Curb ht. 7 L LOW 0.083 + Street Slope

See Sht. 3/3 for SECTION A-A PERPENDICULAR CURB RAMP DETAIL

See Sht. 3/3 for SECTION B-B PARALLEL CURB RAMP DETAIL (DOUBLE)



10:1 [0.10] for a max. rise of 6" [150], 8:1 [0.125] for a max. rise of 3" [75], 6:1 [0.167] over a max. run of 2'-0" [610] for

The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

historic areas where a flatter slope is not feasible.

Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.

Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.

Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24"
[610] from the back of the curb by the width of the ramp. See NOTES on sheet 3.

See Sht. 3/3 for SECTION C-C COMBINED CURB RAMP DETAIL

B = C / 0.083 $C = [Curb ht. + A(S)]_{S^{-}}[(A-D)S + D(0,02)]$  See Sht. 3/3 for SECTION B-B

PARALLEL CURB RAMP DETAIL (SINGLE)

# LEGEND

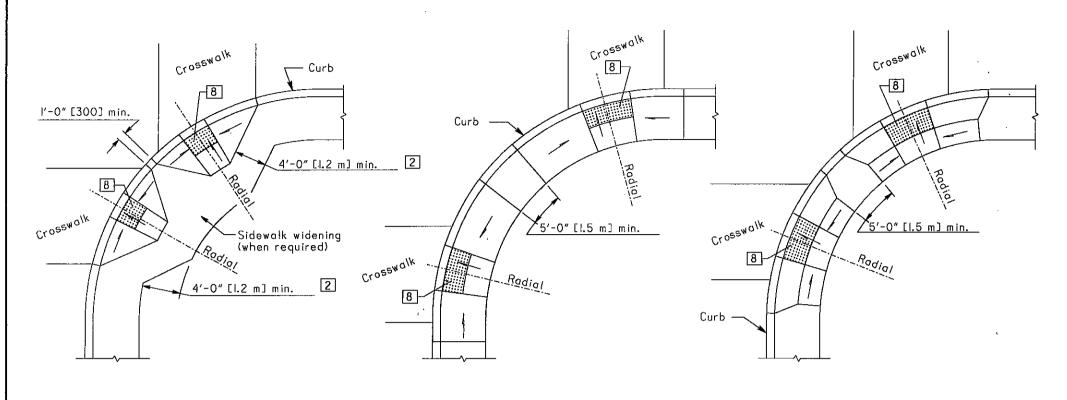
- May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
- May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be topered.
- Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.

In existing sidewalks, where the maximum ramp slope (S ) is not feasible, it may be reduced as follows:

1/3 20A



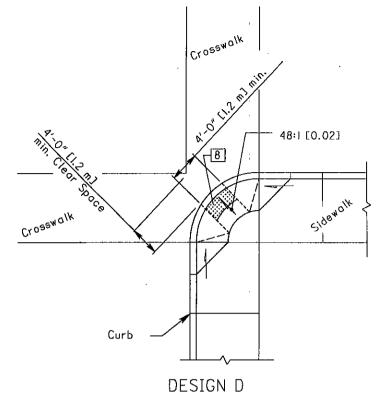
DESIGN A PERPENDICULAR RAMP

DESIGN B PARALLEL RAMP

DESIGN C COMBINATION RAMP

# CORNER CURB RAMP DESIGNS

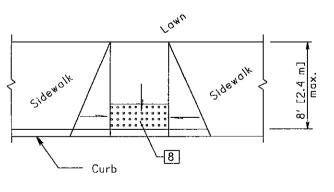
(See Curb Ramp Details on Sht. I/3 for additional requirements.)

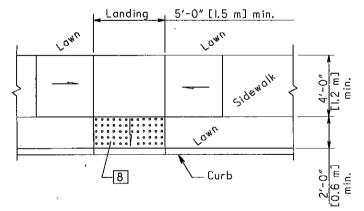


Use in existing walks only and when site constraints prohibit other designs. The diagonal ramp may be perpendular, parallel or combination.

DIAGONAL RAMP

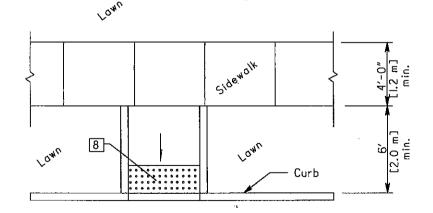
Avoid using where curb radii are less than 20'-0" [6.0 m].





DESIGN E PERPENDICULAR RAMP

DESIGN F PARALLEL RAMP



DESIGN G
PERPENDICULAR RAMPS
w/o FLARES

# MID BLOCK CURB RAMP DESIGNS

For LEGEND, See sheet I.

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)



 $\mathbf{m}$ 

CURI

# **NOTES**

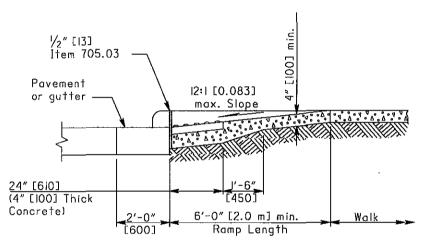
SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than adjacent walk.

TRUNCATED DOMESInstall detectable warnings (truncated domes) for a distance of 24" [610] from the back of the curb for the entire width of the ramp opening as shown on details on Sheet 1.

Pavers will meet ASTM C 902 Class SX, Type I, or C 936, or C 1272 Type R.

Acceptable manufacturers and products are:

1) Whitacre-Greer Fireproofing Company,
1400 S. Mahoning Ave, Alliance, OH, 44601, (800) WG PAVER
ADA Paver, 4"x8"x2-1/4", Clear Red (Rustic) #30.



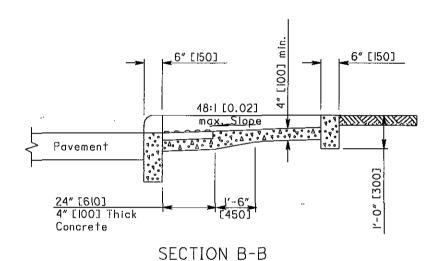
SECTION A-A NORMAL DETAIL See Sheet Lof 3. (Gutter shown)

See DETAIL A

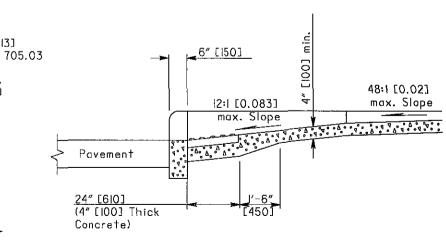
- 2) Hanover Architectural Products, 240 Bender Rd., Hanover, PA. 17331, (717) 637-0500 Detectable Warning Paver, 12"x12"x2", or 24"x24"x2", Red or Quarry Red.
- 3) Endicott Clay Products, PO Box 17, Fairbury, NE, 68352, (402) 729-5804 Handicap Detectable Warning Paver, 4"x8"x2-1/4", Red Blend.

Pavers will laid on top of a 4" [100] unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum  $\frac{1}{2}$ " [13] thick bed of latex modified cement mortar. Mortar joints to a width not greater than  $\frac{5}{32}$ " [4] and not less than  $\frac{1}{16}$ " [1.5]. Pavers shall not be directly touching each other unless they have spacing bars.

Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be taid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.



See Sheet Lof 3.

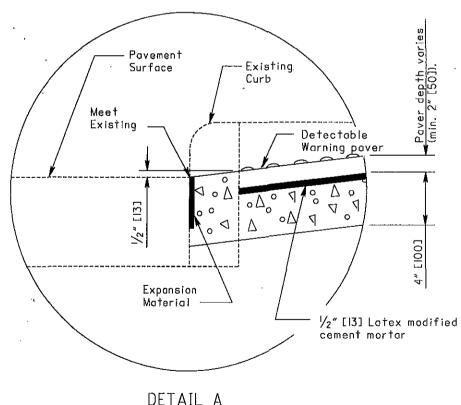


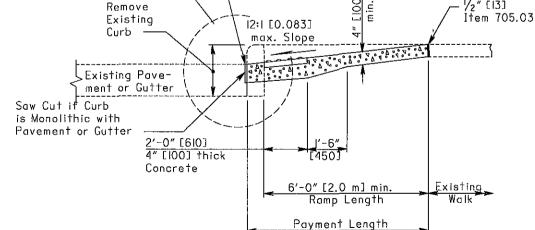
SECTION C-C See Sheet Lof 3.

The surface of any two adjacent units should not differ by more than \( \sigma\_8'' \) [3] in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during constructions.

EXPANSION JOINTS shall be provided in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. A ½" [13] Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

PAYMENT: Walk and curb, Items 608 and 609, shall be measured through the curb ramp area paid for under their respective Items. Item 608 - Curb Ramp, As Per Plan, Each constructed in new curb and walk shall include the cost of any additional materials and installation (including truncated dames), grading, forming and finishing. Item 608 - Curb Ramp. As Per Plan, Square Foot [Meter], constructed in existing curb and walk shall include the cost of furnishing and installing all materials (including truncated dames), grading, forming, and finishing of the curb and walk of the curb ramp. Removal of existing curb and walk shall be paid for under Item 202.





SECTION A-A
EXISTING WALK DETAIL
See Sheet Lof 3.

Adjacent to P.C.C. - 1/2" [13] Preformed

Joint material Item 705.03 with Joint

Sealer applied \$60 BP-5.1.



L O C	CO	R	S.L	M		EDGE L JANTITIE			W EDGE ANTITIE		PARI	ICIPA	TION	TYPE	EDGE	
A T I	)    - 	U E	FROM	ТО	TOTAL MILES	HIGH- WAY	RAMP MILES	TOTAL MILES	HIGH- WAY	RAMP MILES	IRG	FG	RSG	NON FED	LINE TOTAL	REMARKS
N .			·			MILES	WILLO	IVITEES	MILES	WILLS				STATE	MILES	
- 1	GUE	SR 146	0.00	1.70	3.40	1.70									3.40	
1	GUE	SR 146	1.70	2.16	0.46	, 0.46		_							0.46	
1	GUE	SR 146	2.44	10.62	16.36	8.18								<u> </u>	16.36	
					,`			_				TOT	AL LOCA	ATION I	20.22	
								_								'
2	MUS	SR 340	0.00	3.65	7.30	3.65									7.30	
												TOT	AL LOCA	ATION 2	7.30	
								_								
3	MUS	SR 340	0.00	0.71	1.42	0.71									1.42	
-												TOT	AL LOCA	ATION 3	1.42	
4	MUS	SR 340	0.00	0.88	1.76	0.88									1.76	
			}					_				TOT	AL LOCA	ATION 4	1.76	
																,

SUB-SUMMARY

EDGE/CENTERLINE

GUE-146-0.00

# ITEM 642 FAST DRY CENTER LINE SUB-SUMMARY

C	CO	R	S.L	NA		TER LINE ANTITIES	PAR	TICIPA	TION TY	'PE	CENTER	
A T I O N	U N T Y	O U T E	FROM	TO ,	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG	NON FED STATE	LINE TOTAL MILES	REMARKS
1	GUE	SR 146	0.00	9.86	9.86	16.33					9.86	
	GUE	SR 146	9.99	10.62	0.63	1,05					0.63	
								1	OTAL LOC	CATION I	10.4,9	
2	MUS	SR 340	0.00	3.65	3.65	5.86		7	OTAL LOC	CATION 2	3.65 3.65	
3	NOB	SR 340	0.00	0.71	0.71	1.42		1	OTAL LOC	CATION 3	0.71	
									T		9111	
4	GUE	SR 340	0.00	0.88	0.88	1.44					0.88	
									OTAL LOC	CATION 4	0.88	
								,				
	-											
	-											
												,

								644	THERMO	PLASTIC										
				-	TRANS	24" SVERSE NES	STOP LINE	12" CROSS WALK	WOR PAVE		SCH SYM MARI	BOL		LANE	ARRO	ws		RAILROAD	8"	
0	R	DESCRIPTION	SLM		AA USSE	YELLOW	24"	LINES	ONLY	ONLY	ONLY	ONLY	COMBI	NATION		TURN		SYMBOL   MARKING	CHANNEL LINE	REMARKS
U N T	U			ľ	VITIE	YELLOW	24	WHITE	72"	96"	72"	96"	LT/TH	RT/TH <sub>.</sub>	LT	RT	тн			
Ϋ́	Ë			F	FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FEET	
GUE	SR 146	S SCOTT ROAD		RT			25													
		SR 340		RT			10								<del> </del>					
	<del> </del>	CUMBERLAND (SEE NEXT SHEET)		1 +			19			ļ	ļ									
		HOWELL RD. (CO. RD. 19) IOWA RD. (TWP. RD. 27)	+	RT .			14	<del> </del>	<del>                                     </del>					<u> </u>	<u> </u>					ı
	<del>                                     </del>	IOWA RD. (TWP. RD. 27)		LT			20	<u> </u>	1	<del>                                     </del>	<del>                                     </del>									
<del></del>	<del>                                     </del>	TRIPLETT LANE (TWP. RD. 3250)		RT			32	<del>                                     </del>	<del> </del>					<u> </u>	-					
		GARVIN SCHOOL RD. (TWP. RD. 328)	1.	RT			37	1	1					·						
		ON SR 146 SLM 7.52																		
		CRANE RUN RD. (CO. RD. 26) A		LT			17	<u></u>												
· · · · · · ·	<u> </u>	CRANE RUN RD. (CO. RD. 26) B		LT			28	ļ						<u> </u>						
	<del> </del>	ON SR 146 SLM 7.88		<u>.</u>			ļ	ļ				i 						2		
	ļ	ON SR 146 SLM 8.37 HICKLE RD. (TWP. RD. 326)					17		<u> </u>	ļ					•			2		
	,	ON SR 146 @ SLM 8.97		<del></del>		<del></del>	17								,			2		1
	<del> </del>	TWP. RD. 3266	+	RT			20	<del> </del>	1		<del>                                     </del>		-	<del> </del>	-					,
	<u> </u>	SR 146 @ SR 821	<u> </u>	111			40			<b> </b>	<del>                                     </del>			<del></del>	<b></b>		<del></del>			
		SR 146 @ SR 821	1 .				52	<u> </u>	1											,
	1	MAIN ST PLEASANT CITY					10	50												
		TWP RD. 2389		LT			13													
	<b></b>							ļ	ļ <u>.</u>		ļ									
	<u> </u>	SUBTO	TAL LOCAT	7044			354	50										6		i
	1	SUBTO	TAL LOCAT	JON 1	····		354	50										•		
	1	-	1 +				1										· ·			<del>* · · · · · · · · · · · · · · · · · · ·</del>
MUS	SR 340	ON SR 340 @ SR 284	].				30	<u> </u>												<del></del>
	<del>†                                      </del>	SISK ROAD		LT			20				· · · · · · · · · · · · · · · · · · ·								·	· · · · · · · · · · · · · · · · · · ·
		INTERNATIONAL ROAD		LT			26													
		PROUTY ROAD		RT			20													
							<u> </u>		<u> </u>											
		SUBTO	TAL LOCAT	ION 2			96	ļ	<u> </u>								1			
	<u> </u>					<u> </u>									<u> </u>					
	1				<del></del>	<u>                                     </u>	<del> </del>	-		1	ļ				-					
	+						<del>                                     </del>												<del></del>	i i
GUE	SR 340	ZABEDEE LANE	-	LT			16	1		<u> </u>				<u> </u>						<u> </u>
	1	ON SR 340 @ SR 146	1.	<del>-</del> +			12	1	<del>                                     </del>	<del>                                     </del>				<del> </del>						1
								İ		<b>T</b>	1									
																		· · ·		
				$\Box$				ļ												
	<b></b>					<u> </u>	ļ	<b> </b>		<u> </u>				<u> </u>	<u> </u>					· · · · · · · · · · · · · · · · · · ·
	1					<u> </u>	1 00	<u> </u>												
			ALSLOCAT	ION 4	<del></del>	L	28	<u> </u>		<u> </u>	<u> </u>	L		<u> </u>	1			i		

					TRANS	24" SVERSE	STOP	CROSS	WOR PAVE		SCH	BOL	LANE		ARRO	ws	,	RAILROAD			CALCULATED
C O	R	DESCRIPTION	SLM	SIDE		VES		WALK LINES	ONLY	ONLY	MAR		СОМВ	INATION		TURN		RAILROAD SYMBOL MARKING	8" CHANNEL LINE	REMARKS	
N N	0 U		,			YELLOW	24"	WHITE	72"	96"	72"	96"	LT/TH	RT/TH	LT ·	RT	тн	WARRING	LINE	. NEW MIC	
Y	T E				FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FEET	,	.    ,
		CUMBERLAND													<del></del>	············				· · · · · ·	_     ≥
GUE	SR 146	SR 146 IN CUMBERLAND						26													
		ALLEY		RT			6														
		ALLEY		RT			6													· · · · · · · · · · · · · · · · · · ·	;
		ALLEY		LT			6			<u> </u>	<del> </del>						-				;
-		ALLEY		RT			6				1		├─-	ļ							
	<u>.</u>	CEMETERY ST.		LT LT			6 13		·	<del> </del>	<del> </del>					-			<b></b>		
		ALLEY		RT			6						<del>                                     </del>								$\dashv$ I
-	+	CHURCH ST. (SR 83)		RT	ļ		13	44		<del> </del>	<del>                                     </del>		<del>                                     </del>				-		<del>                                     </del>		<del> </del>
		CHURCH ST. (SR 83)	·· <del>···</del>	LT			13	50					<del> </del>	<u> </u>	<u>-</u>					·	$\dashv$ I
		ALLEY		RT				24			1		<del>                                     </del>						<del> </del>		
<u> </u>		ALLEY		LT				24			1			<del> </del>		<del></del>	<u> </u>			· · · · · · · · · · · · · · · · · · ·	
		ALLEY		RT				24						1							$\neg    $
Ì		DRIVE		LT							<del> </del>					*				1	
		ALLEY	,	RT		<del></del>		24													$\neg$
		ALLEY		LT				24													
		ALLEY		RT				48													
		ALLEY		LT				22		<u> </u>										1	
		ALLEY		RT				24		ļ											$\Box 1$
		ALLEY		LT				24		<u> </u>											<b>—</b> Ⅱ
	<u>.</u>	BROAD ST.		RT				48			<u> </u>										_
		BROAD ST.		LT				26					<del> </del> _	ļ				'			
	<u> </u>	ALLEY		RT				24						<del> </del>							
<del></del>		ALLEY		RT				24 24		<del> </del>	<del> </del>										$\dashv$ I
	<u>-                                    </u>	BANK ST.		1 1					·	<b>-</b>	<u> </u>									<del> </del>	$\dashv$ I
		ALLEY		RT				24 24								-				• • • • • • • • • • • • • • • • • • • •	$\dashv I$
		ALLEY	<del></del>	LT	<del> </del>			24		<del>                                     </del>	<del> </del>			<del> </del>							
		ON SR 146 BEFORE SR 340					18	60	<del> </del>	<del>                                     </del>	<b></b>				-						ᅱ
		SR 340 (CAMBRIDGE ST.)		RT			12	54													$\dashv I$
		MAIN ST.		RT			13			ļ											
		ON SR 146 AFTER MAIN ST.		RT			12	54													
		NORTH ST		RT				40													
		NORTH ST		LT			9													, ,	
		ALLEY		RT				24			ļ										
		ALLEY		RT				24													
		ALLEY		RT				24			ļ									· ,,	-41
<u></u>		A 5 1 PM/2						24													<b>⊣</b> I
		ALLEY		RT RT				24							•					l .	
<del></del>		ALLEY		KI	<u> </u>			40		ļ			<u> </u>								11
		ALLEY		RT		<u> </u>	12				-					•	,			·	-11
	+	WALNUT ST.		RT			12			-		•	<del> </del>								$\dashv$ I
		ELM ST.		RT			10			<del>                                     </del>	<del>                                     </del>			<del></del>		``					$\dashv$ I
<b> </b>		MAPLE ST.		RT			15	•					<b> </b>	<del> </del>							$\dashv$
	<del>- </del>	SINGER ST.		LT			22			1							<del> </del>				
		CARL ST.		RT			14					-		<u> </u>						8	<b>  </b>
<b>.</b>	1						<del></del>			1			<u> </u>	<del> </del>			t			· · · · · · · · · · · · · · · · · · ·	<b>-1</b>
<del></del>		SUE	STOTAL LOCA	TION 1			224	920		<del> </del>			<u> </u>	t							$\exists   \epsilon$

G146002.TAS 5-27-05

CALC. BY\_\_\_\_\_\_\_
DATE \_\_\_\_\_\_
CHKD. BY\_\_\_\_\_\_
DATE \_\_\_\_\_

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/

DETA	IL.					
4	4 LANE DIVIDED TO 2 LANE TRANSITION					
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION					
6	ONE LANE BRIDGE					
7	STOP APPROACH					
8	THRU APPROACH					
9	TWO WAY LEFT TURN LANE					
RPM LOCATION SUB-SUMMARY						

DETAIL	
10	APPROACH W/LT, TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

GUE-146-0.00
RPM LOCATION
ON SUB-SUMMARY

L					l Ex	ICTU	D O E F		62 <sup>-</sup>	I ITEM QUA	NTITIES	PRISI	MATIC RETE	RO-REFLE	CTOR COL	ORS	
O C	С		BEGIN	END	LEN	√GTH	G RC	D	· · ·			ONE-	WAY	TWO	-WAY		,
A T I O N	0 U N T Y	R O U T E	LOG POINT SLM	LOG POINT SLM	MILES	LIN.FT.	E U E R V E	ETAIL	RPM	RPM CASTING	PRISMATIC RETRO-	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	REMARKS
1	GUE	146	0.00	0.11	0.11	581	6	11	15					15			
<u>`</u>	<del></del>		0.11	0.72	0.61	3221	GAP	GAP	40					40			
	†	<u> </u>	0.72	0.88	0.16	845	4	GAP	11					11			
			0.88	1.26	0.38	2006	GAP	GAP	25			1		25	<u></u>		
			1.26	1.53	0.27	1426	5	11	18					18			
			1.53	1.70	0.17	898 ,	GAP	GAP	11					11			- confirmed the second
			2.83	3,13	0.30	1584	GAP	GAP	20			······································	1	20			
			3.13	3.18	0.05	264	8	11	7					7			
			3.18	3.22	0.04	211	GAP	GAP	3					3			
			3.22	3.47	0.25	1320	11	12	42					42			
			3.47	3.53	0.06	317	4	GAP	4					4			
			3.53	3.78	0.25	1320	GAP	GAP	17					17			
			3.78	3.94	0.16	845	6	11	21					21		1	
			3.94	4.11	0.17	898	6	11	22					22			
			4.11	4.25	0.14	739	GAP	GAP	9					9	***********		·
			4.25	4.50	0.25	1320	24	12	42					42			
			4.50	5.70	1.20	6336	GAP	GAP	79					79			
			5.70	5.75	0.05	264	9	11	7					7			
			5.75	5.80	0.05	264	GAP.	GAP	3					3			
· ·			5.80	6.08	0.28	1478	13	12	50					50			
			6.08	6.22	0.14	739	GAP	GAP	9					9.			l
			6.22	6.29	0.07	370	8	11	9					9			
			6.29	6.81	0.52	2746	GAP	GAP	34					34		,	
			6.81	6.92	0.11	581	4	GAP	7					7			
			6.92	7.26	0.34	1795	GAP	GAP	22					22	,		
			7.26	7.37	0.11	581	6	11	15					15			
			7.37	7.84	0.47	2482	19	12	100					100			
			7.84	7.89	0.05	264	GAP	GAP	3					3			
			7.89	8.12	0.23	1214	23	12	37					37			
			8.12	8.21	0.09	475	GAP	GAP	6					6			
			8.21	8.27	0.06	317	3	GAP	4					4			
			8.27	8.37	0.10	528	GAP	GAP	7				<u> </u>	. 7			
	ļ		8.37	8.40	0.03	158	4	GAP	2					2			,
	1		8.40	8.90	0.50	2640 '	GAP	GAP	33				<u> </u>	33			
<del> </del>	ļ		8.90	8.93	0.03	158	4	GAP	2					2			
			8.93	9.16	0.23	1214	19	12	37					37			
			9.16	9.86	0.70	3696	GAP	GAP	62			16		46			
	<u> </u>	<u> </u>	10.30	10.46	0.16	845	10	12	18					18			
			10.46	10.62	0.16	845	GAP	GAP	11					11 .			
	·					SUBT	OTAL LOC	ATION 1	864			16	0	848	0	0	

05-27-05

g146002.TRM

DETAIL

I TAPERED ACCELERATION LANE

2 DECELERATION LANE

MULTILANE DIVIDED/
CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

SUB-SUMMARY
LOCATION
RPM

GUE-146-0.00

	25	`
⊢		_
\	30	1

DAIE					MIII TII AA	E DIVIDED/				TOP APPROAC			12	HORIZONTA	L CURVE ALT.	(NOTE 3)	
				3		LED ACCESS				HRU APPROACI			GAF	CENTERLINE	AT 80' TYP.		
				<u> </u>	JOHINOLI	U AUUEJJ			<u> </u>				<u> </u>	1			
	1			Т	· · · · · · · · · · · · · · · · · · ·		<u> </u>		KPN	LUCAI	ION SUB-S		*****				
L							DO		62 <sup>-</sup>	I ITEM QUA	ANTITIES	PRISI	MATIC RET	RO-REFLE	CTOR COL	ORS	
0	_	1			LEN	NGTH	EF	_				ONE-	.WAY	TWO	-WAY		
С	C		BEGIN	END			G	D						,,,,			
Α	0	R	LOG	LOG			RC	E									
T	U	0	POINT	POINT		,	EU	Τ .	RPM	RPM	PRISMATIC			YELLOW	WHITE /	YELLOW	REMARKS
1	N	U	SLM	SLM	MILES	LIN.FT.	ER	A	1 (1 141	CASTING	RETRO-	WHITE	YELLOW	/	RED	/ RED	
0	T	T				,	<u> </u>	ļ						YELLOW	NLD	/	·
N	Y	E				:	E.	L									
2	MUS	340	0	1.85	1.85	9768	GAP	GAP	138			16		122			
			1.85	2.08	0.23	1214	11	12	37					37			
		<u> </u>	2.08	2.29	0.21	1109	GAP	GAP	14					14			
		-	2.29	2.38	0.09	475		NOTE 3	12	ļ				12			
			2.38	2.42	0.04	211	. 12	12	11		<u> </u>			11			·
		<b>.</b>	2.42	2.48	0.06	317	40	NOTE 3	8					8 '			
		ļ	2.48	2.54	0.06	317	13	12	16				<u> </u>	16			<del></del>
		-	2.54 2.57	2.57 2.61	0.03	158 211	21	NOTE3	11				<del>                                     </del>	11			
		<del> </del>	2.61	2.75	0.04	739		NOTE 3	18	<del>                                     </del>			<del> </del>	18			
		-	2.75	2.81	0.14	317	14	12	16					16			
			2.73	2.87	0.06	317	1-4	NOTE 3	8	<u></u>				8			
		<del> </del>	2.87	2.9	0.03	158	19	12	8					8			
			2.9	3.05	0.15	792	10	NOTE3	20		1			20			
		<u> </u>	3.05	3.07	0.02	106	24	12	5					5			
			3.07	3.12	0.05	264		NOTE 3	7					7			
			3.12	3.14	0.02	106	9	11	3					3			
			3.14	3.19	0.05	264	·····	NOTE 3	7					7			
			3.19	3.22	0.03	158	19	12	8					8			
			3.22	3.31	0.09	475		NOTE 3	12					12		,	
			3.31	3.52	0.21	1109	GAP	GAP	14					14	4		
		<u> </u>	3.52	3.72	0.2	1056	14	12	29					29			
		<u> </u>	3.72	3.78	0.06	317	GAP	GAP	4					4			
		•				SUBT	OTAL LOC	ATION 2	410			16		394			
3	NOB	340	0	0.71	0.71	3749	GAP	GAP	47					47			
									_					· · · · · · · · · · · · · · · · · · ·	<u></u>		
		<u> </u>			ļ				_								
		<u> </u>		ļ													
		<u> </u>	<del> </del> -	ļ	-												
<del></del>	<u> </u>	<u>ļ</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	074/ / 0 =	ATIONS	47					2-9	<u> </u>		
		1 242	<del></del>	0.00	1 0.00		OTAL LOC		<u> </u>			1		47			
4	GUE	340	0 0	0.09 0.13	0.09	475 211	GAP	GAP	6 5		-			5		. <u></u>	
		<del> </del>	0.09	0.13	0.04	1162	6 GAP	11 GAP	15		<del> </del>			15			
		<b></b>	0.13	0.39	0.22	211	7 7	11	5					5			
		<del>                                     </del>	0.39	0.39	0.04	422	GAP	GAP	5				<del>                                     </del>	5			
		<del> </del>	0.39	0.47	0.06	317	8 8	11	8					8			
		+	0.47	0.88	0.35	1848	GAP	GAP	39	<u> </u>		16		23			
	!	<del>1, ,,,,,</del>	<u> </u>			<u> </u>	OTAL LOC	<u>,                                      </u>				16		67			
						3061	O IAL LUC	ALIVIV 4	- 00	<u> </u>	. L	10	<u> </u>	L	L	<u> </u>	<u> </u>

l					_							1871					202	30000	1871	SQ.FT.	WALK REMOVED
	····-				·····t···· •			1		<del> </del>	<u> </u>	730					202	32000	730	· ·	CURB REMOVED
1146					_			1									202	54000	1146		RAISED PAVEMENT MARKER REMOVED
1170										<del> </del>		1					202	98100	1		REMOVAL, MISC I BEAM
					···			<u> </u>			<u> </u>	1				<del> </del>	202	98100	1		REMOVAL, MISC FOUNDATION
		3.00	- 1	-				<u> </u>		-	<u></u>	<u>'</u>					209	60501	3.00		LINEAR GRADING, AS PER PLAN
-+		3.00					ļ	<del> </del>		<del>                                     </del>							208	00301	3.00	IVIILE	LINEAR GRADING, AS FER FLAN
	5000				_		<b> </b>						<b></b>		<del></del>		253	01001	5000	CO VD	PAVEMENT REPAIR, AS PER PLAN
	3000			11381			<u> </u>	<u> </u>									254	01001	11381		PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
				11301				<u> </u>	-								204	01001	11301	3Q.TD.	PAVEIGIENT PERMING, AST THE TOUNGILE, AS PER PERM
				8936	440	259	147	-	1		<del></del>						407	10000	0703	CALLON	TACK COAT
	<del></del>			5958	443	1		8										14000	9793		TACK COAT FOR INTERMEDIATE COURSE
	FE007			2926	295	171	98	-	<u> </u>								407		6527		TACK COAT FOR INTERMEDIATE COORSE  TACK COAT, MISC.: FOR LONGITUDINAL JOINT
	55387									<u> </u>							407	98000	55387		
	9780			2040.0	4040	00.4	F.4.5	<del> </del>									408	10001	9780	1	PRIME COAT, AS PER PLAN
00	31			3310.0			54.5	2.9									448	46080	4058.8		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 70-22
	84			3310.0	164.3	96.1	54.5	2.9									448	46900	3711.8	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22
$\dashv$					_			-		<del> </del>	ļ <del></del>						00.4	Anner		m	CATOLI DACINI AD ILIOTED TO COADE
$\dashv$		11					<u></u>	-									604	09000	11	EACH	CATCH BASIN ADJUSTED TO GRADE
_					_						A.F.						600	40015			CHAPPEAR TOPE 5
							<u> </u>	ļ			25					<del></del>	606	13010	25		GUARDRAIL, TYPE 5
_								<u> </u>	37.5	175	75						606	13030	287.5		GUARDRAIL, TYPE 5, USING 9 FOOT POSTS
_								ļ	25	25	25						606	17290	75		GUARDRAIL, TYPE 5, LONG SPAN
									4	4	4						606	35140	12		BRIDGE TERMINAL ASSEMBLY, TYPE 4
							<u> </u>	<u> </u>	3	3	3						606	25000	9		ANCHOR ASSEMBLY, TYPE A
								ļ	1	1							606	26500	2	EACH	ANCHOR ASSEMBLY, TYPE T
								<u> </u>													
								<u> </u>				1398					608	52001	1398	· · · · · · · · · · · · · · · · · · ·	CURB RAMP, AS PER PLAN
												576					608	10001	576	SQ. FT.	4" CONCRETE WALK, AS PER PLAN
								<u> </u>													41.4111114.41.41114.41
90																	614	12460	90		WORK ZONE MARKING SIGN
2.7					_												614	13000	32.7		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
				21.72													614	21400	21.72		WORK ZONE CENTER LINE, CLASS II
					1253.4		Ī										617	10101	1253.4	CU.YD.	COMPACTED AGGREGATE, AS PER PLAN
																864	621	00100	864	EACH	RPM
						,			6	6	6						626	00300	18	EACH	BARRIER REFLECTOR, TYPE A2
								1	,			12					630	03100	12	FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
									<u> </u>			102					630	04100	102	FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
									4	2	4						630	84900	10	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
1												20					630	85100	20	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
								J				7					630	86002	7	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
						]		]	]	J			20.22				642	00100	20.22	MILE	EDGE LINE, TYPE 1
$\neg \uparrow$									·				10.49				642	00300	10.49	MILE	CENTER LINE, TYPE 1
								1													
								<u> </u>						354	224		644	00500	578	FT.	STOP LINE
					<del></del>			1					1	50	920		644	00600	970	FT.	CROSSWALK LINE
								<del> </del>				<u> </u>		6			644	01000	6		RAILROAD SYMBOL MARKING
-+			2	-	<del></del>	<u> </u>		<del>                                     </del>	<del> </del>	1							SPECIAL	69050100	2		MAILBOX SUPPORT SYSTEM, SINGLE
			1			-		1									SPECIAL	69051200	1		MAILBOX SUPPORT SYSTEM, DOUBLE

GRAND TOTALS

UNIT

EACH

SQ.YD.

DESCRIPTION

PORTIONS OF STRUCTURE REMOVED

WEARING COURSE REMOVED

ITEM EXT.

NO.

ITEM

SHEET TOTALS

G146001.mls 5-27-05

7	27	\
7	30	/

			· · · · · · · · · · · · · · · · · · ·				SHE	ET TO	TALS			<u> </u>							ODAND		
3	4	5	6	9	10	11	12	13	17	21	22	23	24	25			ITEM	NO.	TOTALS	UŅĪT	DESCRIPTION
		276	•	<u> </u>	10	520	'-	1056				20	£-1	-			202	23500	1852	SQ.YD.	WEARING COURSE REMOVED
407																<del> </del>	202	54000	407	EACH	RAISED PAVEMENT MARKER REMOVED
							ĺ												<del> </del>	<del></del>	
	1450	-															253	01001	1450	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
				<del>                                     </del>			<u> </u>			<u> </u>						T					
	50.0																301	46001	50.0	CU. YD.	ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN
				3067		82	1										407	10000	3149	GALLON	TACK COAT
				2045		56											407	14000	2101	GALLON	TACK COAT FOR INTERMEDIATE COURSE
	19958	·		·	·												407	98000	19958	FT.	TACK COAT, MISC.: FOR LONGITUDINAL JOINT
	3548								,								408	10001	3548	GALLON	PRIME COAT, AS PER PLAN
																			-		
		38.0															448	46054	38.0		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 70-22
				1135.7		37.5											448	46080	1173.2		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 70-22
	24.0			1135.7		37.5		<u> </u>						<u>L</u>			448	46900	1197.2	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22
		150															606	13001	150		GUARDRAIL, TYPE 5, AS PER PLAN
		2		·							·						606	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A
16																	614	12460	16		WORK ZONE MARKING SIGN
6.8																	614	13000	6.8		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
				7.30	·												614	21400	7.30	MILE	WORK ZONE CENTER LINE, CLASS II
					471.8					<u> </u>	<u> </u>						617	10101	471.8	CU.YD.	COMPACTED AGGREGATE, AS PER PLAN
<b>                                     </b>																					
<b> </b>								ļ						410			621	00100	410	EACH	RPM
															ļ						
										7.30							642	00100	7.30	`.	EDGE LINE, TYPE 1
				ļ			ļ			3.65							642	00300	3,65	MILE	CENTER LINE, TYPE 1
							ļ					ļ									
							ļ	ļ			96						644	00500	96	FT.	STOP LINE
<b> </b>							ļ								ļ						
<b>                                     </b>			1			·	ļ									<del> </del>	SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE
				ļ				<u> </u>													· · · · · · · · · · · · · · · · · · ·
						<u> </u>	<del> </del>				<u> </u>	<u> </u>		<u></u>				<u> </u>			
						-		ļ	,		<u> </u>	ļ									,
l <del> </del>							ļ	<u> </u>	<u>'</u>		<del> </del>							<u> </u>	-		, , , , , , , , , , , , , , , , , , , ,
										<u></u>	<u>.                                    </u>										
<b> </b>							<del> </del>	<del> </del>		<u> </u>	<del> </del>			<del> </del>						<del></del>	· · · · · · · · · · · · · · · · · · ·
<u> </u>							-	-		<u></u>	<u> </u>	<u> </u>	<del></del>	<b> </b>	<u> </u>				<b></b>		
<b> </b>							<del>                                     </del>					<u>                                     </u>								,	
<b> </b>				1			<del> </del>	<del> </del>				<del> </del>		<b> </b>	<u> </u>				-		
<b> </b>				1		-	<u> </u>	<del> </del>						<del> </del>	<u> </u>		-		-		
							<b></b>	<del> </del>				 		<b></b>							
							1	<u>                                     </u>			<u> </u>			<u> </u>							
				-			-	<del> </del>					<u> </u>								
I <del></del>			ļ	<del> </del>	<u> </u>									<u> </u>	<u> </u>	-					
						<del> </del>	<b></b>		<u>-</u>	ļ					l						
				1			+	<del> </del>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						<u> </u>			
				<b></b>	<u> </u>						<del>                                     </del>						<u></u>			,	
LL	L		<u> </u>	<u> </u>	L	1	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	t	l	<u> </u>	l <u>.</u>		<u> </u>	<u> </u>	L	<u>L.</u>	<u> </u>	1	<u> </u>	

5-27-05

G146002.mls

							SHEE	ET TO	TALS								ITEM	ITEM EXT.	GRAND	UNIT	DESCRIPTION
3	4	5	6	9	10	11	12	13	17	21	22	23	24	25					TOTALS	**	
47																	202	54000	47	EACH	RAISED PAVEMENT MARKER REMOVED
	400		<u> </u>										<u> </u>	<u> </u>			253	01001	400	SQ. YD.	PAVEMENT REPAIR, AS PER PLAN
				562													407	10000	562		TACK COAT
	0750			375													407	14000	375		TACK COAT MISS FOR LONGITUDINAL LOINT
	3750 666							ļ									407 408	98000 10001	3750 666		TACK COAT, MISC.: FOR LONGITUDINAL JOINT PRIME COAT, AS PER PLAN
										<u> </u>	<u> </u>	<del> </del>					400	10001	000	GALLON	TAME SOMI, NOTEN LEW
				208.3					ı								448	46080	208.3	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 70-22
				208.3													448	46900	208.3	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22
4				4.40								ļ					614	12460	4		WORK ZONE MARKING SIGN
				1.42							<b></b>		<u></u>	<u> </u>			614	21400	1.42	MILE	WORK ZONE CENTER LINE, CLASS II
					92.6						<del> </del>			<del>                                     </del>			617	10101	92.6	CU,YD.	COMPACTED AGGREGATE, AS PER PLAN
																					**************************************
														47			621	00100	47	EACH	RPM
							·			1.42 0.71	<u> </u>						642 642	00100 00300	1.42 0.71		EDGE LINE, TYPE 1 CENTER LINE, TYPE 1
			 							0.71		<u> </u>					042	00300	0.71	. IVIILE	CENTER LINE, 11FE I
			<del></del>																		, , , , , , , , , , , , , , , , , , , ,
		<u> </u>																			1
								!			ļ										
									-	<u> </u>											
		<u> </u>	<u></u>							ļ	<u> </u>	<u> </u>									
			:			:															
											<u> </u>			<u> </u>							
				<u></u>	<b></b>														-		
			ļ	<u> </u>	<del> </del>						<del>                                     </del>		<del> </del>	<del> </del>							
																				,	
													-								
		<u> </u>				<u> </u>	<del> </del>	<del> </del>	<del> </del>	-	<del>                                     </del>		<del>                                     </del>	<del>                                     </del>		-					
													<b> </b>	<u> </u>							
			<u> </u>	<u> </u>	<del> </del>		ļ			1			-								
		<u> </u>			<del>                                     </del>					ļ	ļ	ļ	ļ							· · · · · · · · · · · · · · · · · · ·	
						ļ		-												•	
	<u>.</u>	ļ			<u> </u>	<u> </u>	ļ	<b></b>	ļ.,	ļ	1		L	L	I	L	L	L		L	1

MJE

LOCATION 3 SUB-SUMMARY

GUE-146-0.00

28 30

							SHE	ET TO	TALS						171	=N4	ITEM EXT.			DESCRIPTION
3	4	5	6	9	10	11	12	13	17	21	22	23	24	25	111	EM  '	NO.	TOTALS	UNIT	DESCRIPTION
								500							20	02	23500	500	SQ.YD.	WEARING COURSE REMOVED
83															20	02	54000	83	EACH	RAISED PAVEMENT MARKER REMOVED
	750							ļ							25	53	01001	750	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN
								<u> </u>										<u> </u>		
	115.0						ļ	ļ							30	01	46001	115.0	CU, YD.	ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN
				204	<u> </u>	10	<b></b>	<u> </u>	'							779	10000	700	0.11.011	TACK COAT
				684 456		42 28	<del> </del>	<b> </b>					<del>                                     </del>		40		10000	726 484	1	TACK COAT FOR INTERMEDIATE COURSE
	4650			406		20		<del> </del>				<u> </u>	ļ	<u> </u> -	40		98000	4650		TACK COAT, MISC.: FOR LONGITUDINAL JOINT
	826				ļ		1	-	:			<del> </del>	<del> </del>	<del> </del> -	40		10001	826		PRIME COAT, AS PER PLAN
<u> </u>	020				<del></del>			<u> </u>									10001	020	OALLON	Third Gori, No 1 Ett Esix
				253.2	-	15.6		1							44	48	46080	268.8	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 70-22
·····				253.2		15.6	<del> </del>	1	1							48	46900	268.8		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22
					<u> </u>	<u> </u>		<u> </u>		<u> </u>		<u> </u>						<del>                                     </del>		1
		150													60	06	13001	150	FT.	GUARDRAIL, TYPE 5, AS PER PLAN
		2													60	06	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A
11								ļ				<u> </u>	<u> </u>		6		12460	11	<u> </u>	WORK ZONE MARKING SIGN
1.5									<u> </u>			ļ	ļ			14	13000	1.5		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
				1.76	<b></b>							<u> </u>	<del> </del>	<del>. </del>	6	14	21400	1.76	MILE	WORK ZONE CENTER LINE, CLASS II
					112.9									-	6	17	10101	112.9	CH VD .	COMPACTED AGGREGATE, AS PER PLAN
	<u> </u>				112.9			<del></del>	<del> </del>					-		17	10101	112.5	CO.TD.	COMPACIED AGGREGATE, AS PER PEAN
-							-	<del> </del>	<del> </del>					83	62	21	00100	83	EACH	RPM ·
	<b> </b>				-	-	<del>                                     </del>	<del> </del>				}	}	"					LAGII	
		<u></u>						<del>                                     </del>		1.76					64	12	00100	1.76	MILE	EDGE LINE, TYPE 1
								·		0.88					64	<b>‡</b> 2	00300	0.88	MILE	CENTER LINE, TYPE 1
								· ·									,			
		·									28				64	14	00500	28	FT.	STOP LINE
										,										
									, .											
						ļ		<u> </u>				<u></u>	<b></b>	ļ			-			
		_						-										<del> </del> _		
							<del> </del>	ļ										<u> </u>		
	-						<u> </u>	<u> </u>						<del>                                     </del>				<del>                                     </del>		
				-		ļ								<del> </del>				<u> </u>	1	
					1	İ	<b> </b>	<u> </u>										<del>                                     </del>		
<del></del>			1		<del> </del>		-	<b> </b>						<del>                                     </del>				<del>                                     </del>	1	
			<del> </del>	<del> </del> -	<del> </del>	<u> </u>							<del> </del>			-				
																	· · · · · · · · · · · · · · · · · · ·	<del> </del>		
			<b> </b>				<u> </u>	<b>T</b>				<u> </u>								
							1_				<u> </u>									
								<u> </u>												
																			•	
																	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	]					L_			[											

SUB-SUMMARY LOCATION

GUE-146-0.00

29 30

		SHEET TOTALS		, ITEM	ITEM EXT.	GRAND	UNIT	DESCRIPTION
26	27	28 ,	29	115-141	NO.	TOTALS	OIVII	DESCRIPTION
1				202	11 <b>5</b> 00	1	EACH	PORTIONS OF STRUCTURE REMOVED
8247	1852	, .	500	202	23500	10599	SQ.YD.	WEARING COURSE REMOVED
1871				202	30000	1871	SQ.FT.	WALK REMOVED
730				202	32000	730	FT.	CURB REMOVED
1146	407	47	83	202	54000	1683	EACH	RAISED PAVEMENT MARKER REMOVED
1				202	98100	1	EACH	REMOVAL, MISC. I - BEAM (SHEET 20)
1				202	98100	1	EACH	REMOVAL, MISC. FOUNDATION (SHEET 20)
3.00				209	60501	3.00	MILE	LINEAR GRADING, AS PER PLAN (SHEET 5)
5000	1450	400	750	253	01001	7600	SQ.YD.	PAVEMENT REPAIR, AS PER PLAN (SHEET 4)
11381	<del></del>			254	01001	11381		PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (SHEET 5)
	50.0		115.0	301	46001	165	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN (SHEET 4)
9793	3149	562	726	407	10000	14230		TACK COAT
6527	2101	375	484	407	14000	9487		TACK COAT FOR INTERMEDIATE COURSE
55387	19958	3750	4650	407	98000	83745	FT.	TACK COAT, MISC.: FOR LONGITUDINAL JOINT
9780	3548	666	826	408	10001	14820		PRIME COAT, AS PER PLAN
0100	38.0		020	448	46054	38		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 70-22
4058.8	1173.2	208.3	268.8	448	46080	5709	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 70-22
3711.8	1197.2	208.3	268.8	448	46900	5386	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22
11	(107.2	200.5	200,0	604	09000	11		CATCH BASIN ADJUSTED TO GRADE
25				606	13000	25		GUARDRAIL, TYPE 5
	150	·	150	606	13001	300	FT.	GUARDRAIL, TYPE 5, AS PER PLAN (SHEET 5)
287.5	100		150	606	13030	288	FT.	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS
				<del></del>	<u> </u>			GUARDRAIL, TYPE 5, USING 9 POOT POSTS
75				606	17290 35140	75	FT. EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
12	2		<u> </u>	606		12		ANCHOR ASSEMBLY, TYPE A
9			2	606	25000	13	EACH	· · · · · · · · · · · · · · · · · · ·
2		1		606	26500	2		ANCHOR ASSEMBLY, TYPE T
1398		,		608	52001	1398		CURB RAMP, AS PER PLAN (SHEET 20)
576				608	10001	576		4" CONCRETE WALK, AS PER PLAN (SHEET 20)
90	16	4	11	614	12460	121		WORK ZONE MARKING SIGN
32.7	6.8		1.5	614	13000	41		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
21.72	7.30	1.42	1.76	614	21400	32.20	MILE	WORK ZONE CENTER LINE, CLASS II
1253.4	471.8	92.6	112.9	617	10101	1931	CU.YD.	COMPACTED AGGREGATE, AS PER PLAN (SHEET 2)
864	410	47	83	621	00100	1404	EACH	RPM
18				626	00300	18	EACH	BARRIER REFLECTOR, TYPE A2
12				630	03100	12	FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
102				630	04100	102	.TF	GOUND MOUNTED SUPPORT, NO. 4 POST
10				630	84900	10	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
20	······································			630	85100	20	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
7				630	86002	7	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
20.22	7.30	1.42	1.76	642	00100	30.70	MILE	EDGE LINE, TYPE 1
10.49	3.65	0.71	0,88	642	00300	15.73	MILE	CENTER LINE, TYPE 1
578	96		28	644	00500	702	FT.	STOP LINE
970				644	00600	970	FT.	CROSSWALK LINE
6				644	01000	6	EACH	RAILROAD SYMBOL MARKING
		·						
2	1			SPECIAL	69050100	3	EACH	MAILBOX SUPPORT SYSTEM, SINGLE
1				SPECIAL	6905(/200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE
				614	11000	1	LUMP	MAINTAINING TRAFFIC
l I								
				619	16000	2	MONTH	FIELD OFFICE, TYPE A

G146001.mgs /5-27-05

30 30

GUE-146-0.00

SUMMARY

GENERAL