

SEE SHEET 2
FOR LOCATIONS

LOCATION MAP

PORTION TO BE IMPROVED -----
INTERSTATE HIGHWAY -----
FEDERAL ROUTES -----
STATE ROUTES -----
COUNTY & TOWNSHIP ROADS -----
OTHER ROADS -----

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

**VAN-33 / 127 / 224 / 49 /
81 / 116 / 118**

Village of Ohio City
Village of Willshire
City of Van Wert

Willshire, Liberty, Pleasant and
Ridge Townships
Van Wert County

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PROJECT DESCRIPTION

REHABILITATION OF 3.47 MILES OF ROADWAY ON US 33,
0.82 MILES OF ROADWAY ON US 127 AND 9.38 MILES OF
ROADWAY ON SR 118 IN VAN WERT COUNTY BY PAVEMENT
PLANING, RESURFACING, CONSTRUCTING CURB RAMPS AND
PLACING PAVEMENT MARKINGS.
REHABILITATION OF 2.18 MILES OF ROADWAY ON US 224,
1.22 MILES OF ROADWAY ON SR 49, 0.42 MILES OF ROADWAY
ON SR 81 AND 1.58 MILES OF ROADWAY ON SR 116 IN VAN WERT
COUNTY BY RESURFACING AND PLACING PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A
NOTICE OF INTENT EARTH DISTURBED AREA: N/A

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR
THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED
ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE
DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF
SECTION 5511.02 OF THE OHIO REVISED CODE.

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING
CHANGES LISTED IN THE PROPOSAL SHALL GOVERN
THIS IMPROVEMENT.

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.

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG.



Call Before You Dig
1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

PLAN PREPARED BY:
District One
Ohio Department of Transportation
Planning & Engineering

ENGINEERS SEAL



SIGNED:

DATE: December 17, 2016

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7/18/14	TC-64.10	7/17/15
BP-5.1	7/19/13	TC-65.10	1/17/14
BP-7.1	7/18/14	TC-65.11	7/15/16
		TC-71.10	7/15/16
MT-95.61	7/19/13		
MT-97.10	7/18/14	DM-4.3	1/15/16
MT-97.12	7/18/14	DM-4.4	1/15/16
MT-99.20	7/19/13		
MT-101.90	7/17/15		
MT-105.10	7/19/13		
MT-110.10	7/19/13		
TC-41.20	10/18/13		
TC-42.20	10/18/13		
TC-52.10	10/18/13		
TC-52.20	1/15/16		

SUPPLEMENTAL
SPECIFICATIONS

800	1/20/17
832	1/17/14
875	1/17/14

APPROVED

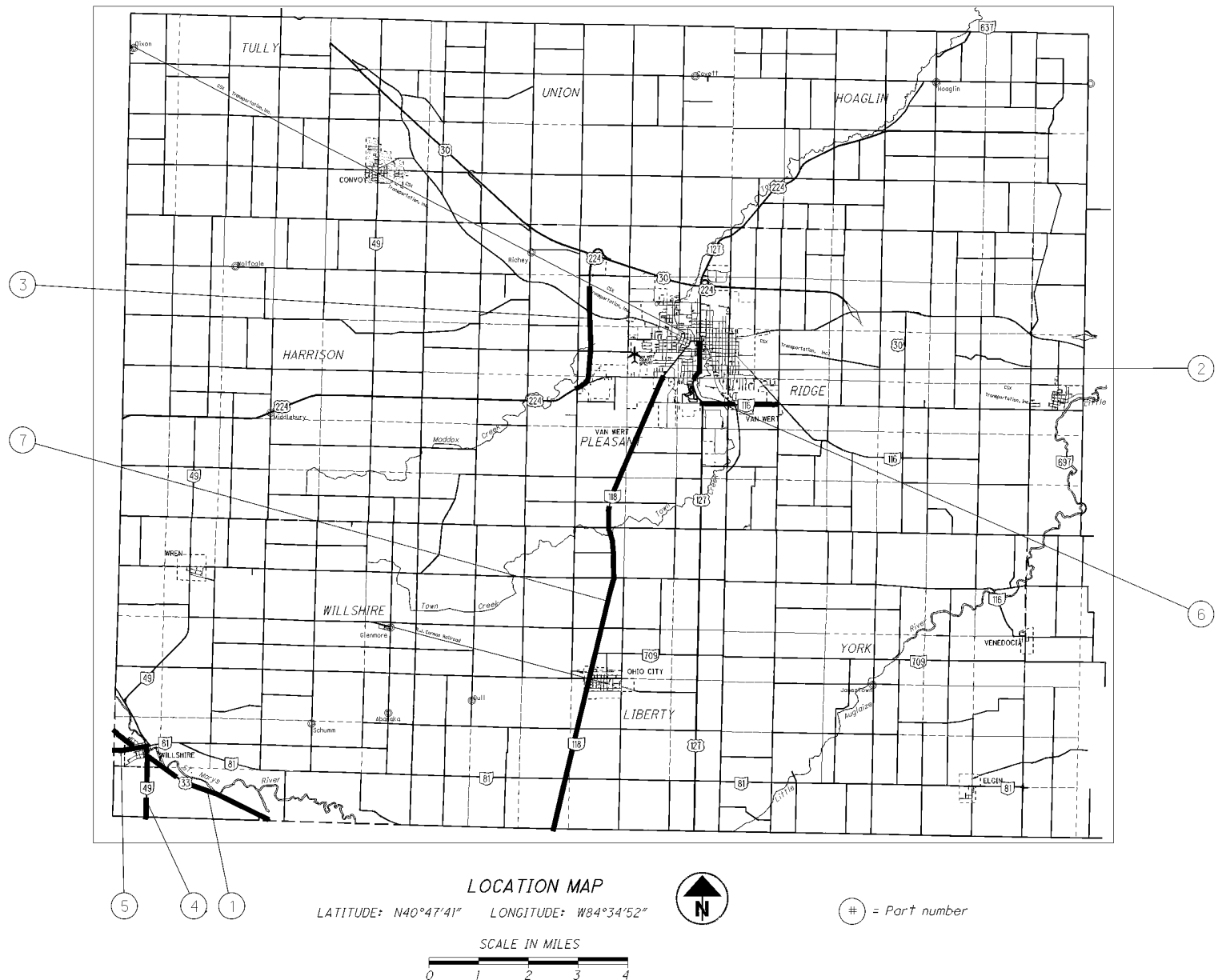
DATE: 12/19/16

DISTRICT DEPUTY DIRECTOR

APPROVED

DATE

DIRECTOR, DEPARTMENT OF TRANSPORTATION



CALCULATED
GLJ
CHECKED
EJS

LOCATION MAP

VAN-33/127/224/
49/81/116/118

TRAFFIC:

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH 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. CONCRETE APPROACH SLABS AND BRIDGE DECKS SHALL NOT BE PAVED. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ANY ASPHALT CONCRETE MATERIAL FROM FALLING OFF THE EDGE OF A BRIDGE DECK OR EDGE OF A CULVERT DURING ANY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY MATERIAL THAT FALLS INTO THE ROADSIDE DITCHES OR STREAMS THROUGH NON-MECHANICAL MEANS. NO EQUIPMENT SHALL BE PERMITTED IN THE ROADSIDE DITCHES OR STREAMS.

ALIGNMENT AND PROFILE:

THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

EXTRA AREAS:

EXTRA AREAS SHALL INCLUDE DRIVEWAYS, MAILBOX PULL-OFFS AND OTHER SIMILAR AREAS AS DETERMINED BY THE ENGINEER. DRIVEWAYS SHALL BE FEATHERED IN APPROXIMATELY 6 FEET USING ASPHALT CONCRETE. SOME DRIVES MAY REQUIRE MORE THAN 6 FEET TO ALLOW FOR ADEQUATE TRANSITION TO THE MAINLINE PAVEMENT. THESE TRANSITIONS WILL BE AS DIRECTED BY THE ENGINEER. THE ASPHALT CONCRETE QUANTITIES FOR DRIVES AND MAILBOXES ARE INCLUDED IN THE EXTRA AREA QUANTITIES IN THE PAVEMENT DATA TABLE.

ASPHALT CONCRETE PLACEMENT ON SHOULDERS AND GUTTERS:

THE ASPHALT CONCRETE ON THE SHOULDERS AND CONCRETE GUTTERS 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 AT THE SAME CROSS SLOPE AS THE EXISTING SHOULDER OR CONCRETE GUTTER GRADES. NEW CONCRETE CURB AND GUTTER AT LOCATIONS OF CURB RAMPS SHALL BE COMPLETED PRIOR TO PLACEMENT OF ASPHALT CONCRETE.

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 CLEARED 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 617 COMPACTED AGGREGATE, AS PER PLAN:

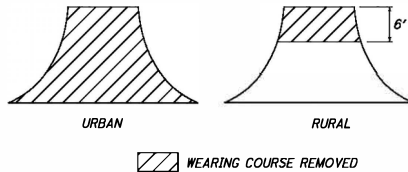
THIS ITEM SHALL MEET ALL REQUIREMENTS FOR ITEM 617 COMPACTED AGGREGATE WITH THE FOLLOWING EXCEPTION:

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 AGGREGATE, AS PER PLAN.

WEARING COURSE REMOVED AT INTERSECTIONS

TYPICAL WEARING COURSE REMOVED AT INTERSECTIONS AS DETAILED BELOW.



MAINTAINING TRAFFIC AT DROP-OFFS

WHERE PAVEMENT PLANING/WEARING COURSE REMOVED IS SPECIFIED THE CONTRACTOR SHALL MAINTAIN A DROP-OFF AT DRIVES AND INTERSECTIONS OF NO MORE THAN 1.5 INCHES. WHERE THE DEPTH OF THE REMOVAL EXCEEDS 1.5 INCHES THE CONTRACTOR SHALL PROVIDE TEMPORARY WEDGES OR OTHER MEANS APPROVED BY THE ENGINEER TO REDUCE THE DROP-OFF TO NO GREATER THAN 1.5 INCHES. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM ITEM FOR MAINTAINING TRAFFIC, AS PER PLAN.

ITEM 253 - PAVEMENT REPAIR:

THIS ITEM 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 DETEIORATED PAVEMENT. 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. 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 CUBIC YARD OF ITEM 253 PAVEMENT REPAIR.

253 PAVEMENT REPAIR 1110 CUBIC YARD
(130 CUBIC YARDS FOR PAVEMENT REPAIRS 4" AND LESS IN DEPTH)
(980 CUBIC YARDS FOR PAVEMENT REPAIRS BETWEEN 4" AND 8" DEEP)

WORK ZONE MARKINGS AND SIGNS

ERECT A GROOVED PAVEMENT SIGN 250 FEET IN ADVANCE OF ANY SECTION OF ROADWAY WHERE TRAFFIC MUST TRAVEL ON A PLANED SURFACE. ENSURE THESE SIGNS ARE IN PLACE BEFORE OPENING THE ROADWAY TO TRAFFIC. ERECT THESE SIGNS AT INTERSECTIONS OF THROUGH ROUTES TO WARN TRAFFIC OF THIS SURFACE CONDITION. THE SIGN CODE IS W8-HIS AND THESE SIGNS SHALL BE PAID FOR AS ITEM 614 WORK ZONE MARKING SIGN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF CMS 614.04 AND 614.11.

ITEM 614, WORK ZONE MARKING SIGN 96 EACH
ITEM 614, WORK ZONE CENTER LINE, CLASS II 40.28 MILES

446 DENSITY ACCEPTANCE WITH FLAGGER CLOSING OF A 2-LANE HIGHWAY FOR PAVING OPERATIONS

THIS PLAN NOTE APPLIES ONLY TO A FLAGGER CLOSURE OF ONE LANE OF A 2-LANE HIGHWAY DURING PAVING OPERATIONS WHEN USING STANDARD CONSTRUCTION DRAWING MT-97.11 OR MT-97.12, AND ALLOWS A PAVING OPERATION TO PROCEED CONCURRENTLY WITH THE MARKING AND CUTTING OF CORES REQUIRED FOR 446 DENSITY ACCEPTANCE.

IN ALL CASES THE CONTRACTOR SHOULD LENGTHEN THEIR LANE CLOSURES TO THE MAXIMUM PERMISSIBLE LENGTH DETAILED IN THE ABOVE REFERENCED STANDARD CONSTRUCTION DRAWINGS TO ALLOW THE ENGINEER ADEQUATE TIME TO MARK THE REQUIRED CORE LOCATIONS AND FOR CORE CUTTING OPERATIONS.

THE CONTRACTOR WILL PROVIDE TO THE ENGINEER THE PLANNED QUANTITY THAT WILL BE PLACED FOR THE DAY'S PRODUCTION. EACH DAY'S PRODUCTION WILL BE CONSIDERED ONE LOT AND INCLUDES SHOULDERS. TEN CORES WILL BE OBTAINED BY THE CONTRACTOR FOR EACH LOT AT RANDOM LOCATIONS DETERMINED BY THE ENGINEER. THE ENGINEER WILL DIVIDE A LOT INTO FIVE EQUAL SUBPLOTS AND CALCULATE TWO RANDOM CORE LOCATIONS IN EACH SUBPLOT AS DESCRIBED IN CMS 446.05.

THE ENGINEER WILL MARK THE CORE LOCATIONS AFTER THE PAVING OPERATION (INCLUDING THE FINISH ROLLER) HAS COMPLETELY PASSED THE RANDOMLY SELECTED CORE LOCATION. THE CORE DRILL OPERATION CAN BEGIN CUTTING CORES WHEN THE NEWLY PLACED PAVEMENT SURFACE TEMPERATURE IS LESS THAN 140 DEGREES F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LANE CLOSURE DURING ALL PAVING, MARKING, AND CORING OPERATIONS PER THE REQUIREMENTS OF THE STANDARD CONSTRUCTION DRAWING USED FOR THE PAVING OPERATION.

ENVIRONMENTAL COMMITMENTS

1. THE CONTRACTOR MUST FOLLOW ODOT CMS(107.10) IN ORDER TO ENSURE STAGING, STORAGE, WASTE AND BORROW AREAS ARE APPROPRIATELY CITED.
2. NO WORK OR STAGING OF EQUIPMENT AND MATERIALS WILL OCCUR WITHIN A STREAM, DITCH, WETLAND, OR PUBLIC PARK AREA.
3. FULL CONTAINMENT OF CONSTRUCTION MATERIALS IS REQUIRED OVER ALL WATERWAYS.
4. A PROPER CONCRETE WASHOUT AREA MUST BE PROVIDED BY THE CONTRACTOR.

PAVEMENT JOINTS

THIS NOTE APPLIES TO US 127 FROM MILEPOST 9.30 TO MILEPOST 9.80.

CONTRACTOR SHALL CONDUCT PAVING OPERATIONS SUCH THAT ANY COLD JOINTS WILL BE AT THE CROWN OF THE ROADWAY AND AT THE OUTSIDE EDGE OF THE NB DRIVING LANE. THE INTENT OF THIS NOTE IS TO ELIMINATE ANY COLD JOINTS BEING IN THE TRAVELED LANE.

ITEM 608 - CURB RAMPS, AS PER PLAN

IN ADDITION TO CMS SECTION 608 AND STANDARD CONSTRUCTION DRAWING BP-7.1, THE RADII OF DETECTABLE WARNING (TRUNCATED DOME) DEVICES SHOWN IN THE PLANS AS CURVED SECTIONS SHALL BE DETERMINED BY AND PROVIDED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE APPROPRIATE CURVED SECTIONS OF DETECTABLE WARNING (TRUNCATED DOME) DEVICES THAT WILL FIT WITHIN THE PROPOSED CURB RAMPS DETAILED IN THE PLANS, TO THE SATISFACTION OF THE PROJECT ENGINEER.

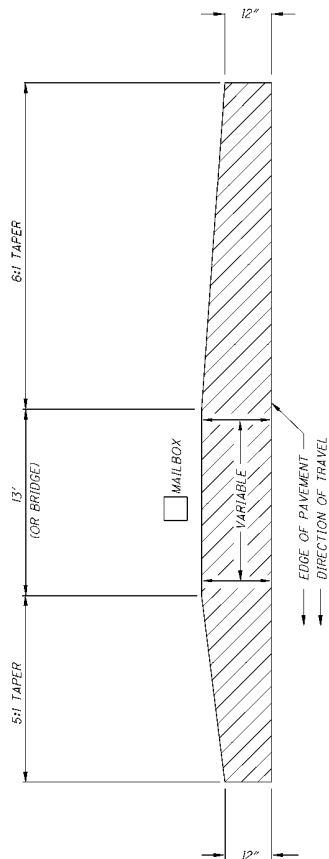
ALL COST ASSOCIATED WITH MEETING THE ABOVE REQUIREMENTS, INCLUDING ANY DELAYS, SHALL BE INCIDENTAL TO THE UNIT PRICE BID PER SQUARE FOOT OF ITEM 608, CURB RAMP, AS PER PLAN.

CALCULATED
GLT
CHECKED
EJS

GENERAL NOTES

VAN-33/127/224/
49/81/116/118

3
26



SINGLE - MAILBOX TURNOUT & BRIDGE APPROACHES

IF THERE IS A DISTANCE OF 100 FEET OR LESS BETWEEN MAILBOXES: APPROACHES 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 ADDITIONAL QUANTITY OF ASPHALT CONCRETE HAS BEEN SET UP TO BE USED IN THOSE AREAS EXCAVATED FOR DRIVEWAYS, MAILBOX AND BRIDGE APPROACHES.

ALL WORK, MATERIALS, EXCEPT ITEM 304, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE PLACEMENT OF THE ASPHALT CONCRETE.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT.. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO. --- IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING AN FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAM BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-387-2346

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 502 STRUCTURE FOR MAINTAINING TRAFFIC, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SEEDING AND MULCHING

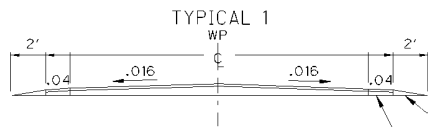
THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	1 CU. YD.
659, SEEDING AND MULCHING	7 SQ. YD.
659, COMMERCIAL FERTILIZER	0.02 TON
659, WATER	1 M. GAL.

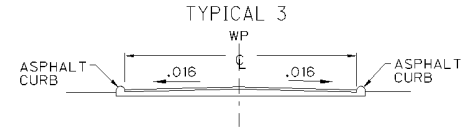
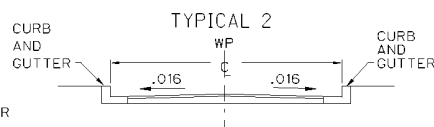
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

COORDINATION OF CONTRACTORS

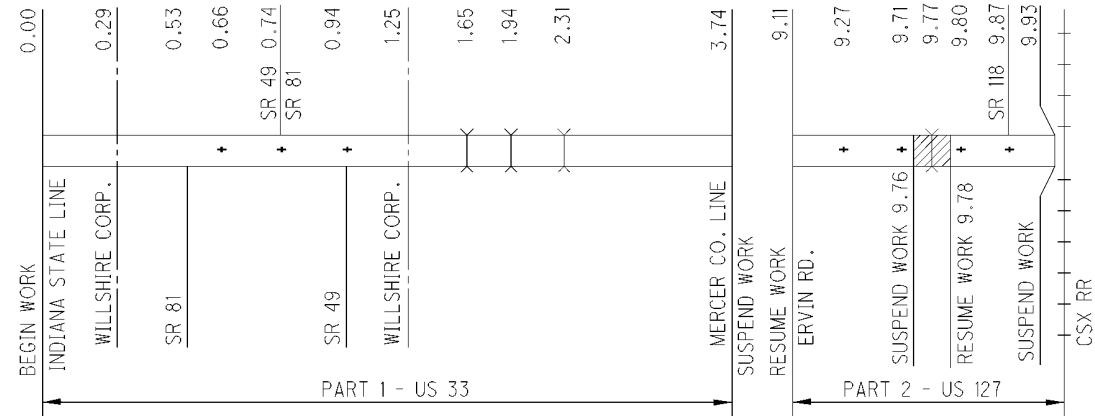
SINCE THE MAINTENANCE OF TRAFFIC AND WORK ON THIS PROJECT MAY OVERLAP PROJECT VAN-30/224-4.05/11.44, PID 25261, IT IS ESSENTIAL THAT EACH CONTRACTOR CONDUCT THEIR WORK AND COOPERATE WITH EACH OTHER IN SUCH A MANNER AS NOT TO HINDER THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY THE OTHER CONTRACTOR. THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE MOT AS NECESSARY AND DIRECTED BY THE ENGINEER. ALL MATERIALS, EQUIPMENT AND LABOR SHALL BE INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN, LUMP.



ITEM 617, AS PER
PLAN (TYP.)
SEE SAFETY EDGE DETAILS ON SHEET 0 (TYP.)

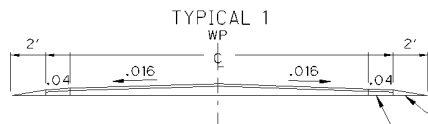


NOTE: MAILBOX AND DRIVES
QUANTITIES ARE
INCLUDED IN THE
EXTRA AREAS
NOTE: DRAWINGS NOT TO SCALE
NOTE: ALL TOTALS CARRIED
TO GENERAL SUMMARY

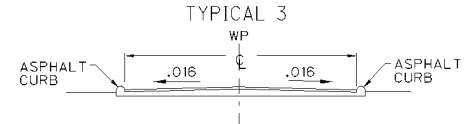
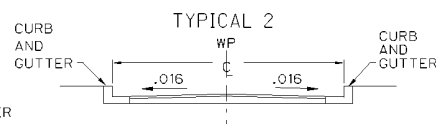


PAVEMENT DATA

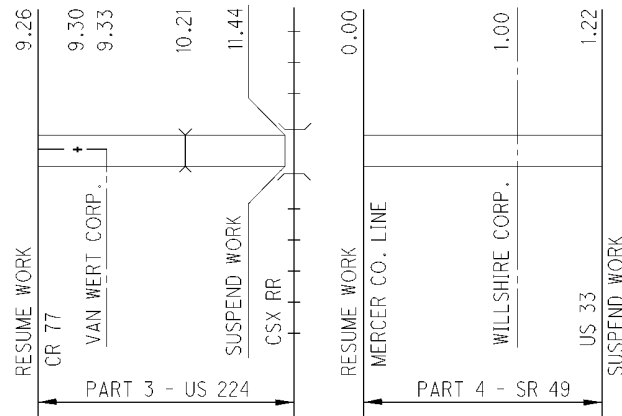
ROUTE	FROM	TO	DISTANCE	PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	441				442		254					304	617	209		
							WEARING COURSE REMOVED	NON TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1 (448)		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22		ASPHALT CONCRETE SURFACE COURSE 12.5 MM TYPE A (446)		PAYEMENT PLANING, ASPHALT				PATCHING PLANED SURFACES	AGGREGATE BASE	COMPACTED AGGREGATE	PREPARING SUBGRADE FOR SHOULDER PAVING
									THICKNESS 1 1/2"	THICKNESS 1"	THICKNESS 1 1/4"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 1 1/2"	THICKNESS 1 1/4"	THICKNESS 1 1/2"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 2 1/2"	THICKNESS 2 1/4"	THICKNESS 1 1/2"	THICKNESS 1 1/4"	2% PLANED AREA			
	SLM	SLM	MILES	FEET	FEET	SQ YD	SQ YD	GAL	CU YD				CU YD		SQ YD					CU YD	CU YD	MILES		
Part 1																								
US 33	0.00	0.66	0.66	3485	27	1	10454		889		290				436	10	10454				209		86	1.32
US 33	0.66	0.75	0.09	475	46	2	2534		215		70				106		2534				51			
US 33	0.75	0.81	0.06	317	68	2	2394		203						100				2394		46			
US 33	0.81	0.94	0.13	666	24	2	1830		158						76				1830		37			
US 33	0.94	1.25	0.31	1637	26	1	5092		433						212	5			5092		102		40	0.62
US 33	1.25	3.74	2.49	13417	29	1	42363	258	3601	568		1471	38										325	4.98
Extra Areas							820	538	70						34									
Intersections							1791	170						82										
Totals							2587	5737		948		1509	82		979		22304		447	20	451		6.92	
Part 2																								
US 127	9.11	9.15	0.04	211	36	2	845		72						35			845		17				
US 127	9.15	9.30	0.15	792	30	2	2640		224						110			2640		53				
US 127	9.30	9.66	0.36	1901	34	2	7161		610						299			7161		144				
US 127	9.66	9.76	0.10	528	39	2	2288		194						95			2288		46				
US 127	9.76	9.78	0.02	106	bridge																			
US 127	9.78	9.80	0.02	106	50	2	587		50						24			587		12				
US 127	9.80	9.93	0.13	686	54	2	4118		350						172			4118		82				
Intersections							1639	139					68											
Totals							1639	1639					68	68	735		17659		354					



ITEM 617, AS PER
PLAN (TYP.)
SEE SAFETY EDGE DETAILS ON SHEET 0 (TYP.)



NOTE: MAILBOX AND DRIVES
QUANTITIES ARE
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NOTE: DRAWINGS NOT TO SCALE
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TO GENERAL SUMMARY



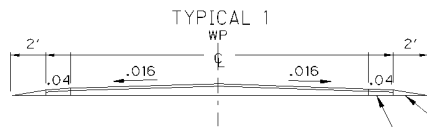
PAVEMENT DATA

ROUTE	FROM	TO	DISTANCE	PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	441				442		254					304	617	209		
							WEARING COURSE REMOVED	NON TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1 (446)		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22		ASPHALT CONCRETE SURFACE COURSE 12.5 MM TYPE A (446)		PAVEMENT PLANING, ASPHALT				PATCHING PLANED SURFACES	AGGREGATE BASE	COMPACTED AGGREGATE	PREPARING SUBGRADE FOR SHOULDER PAVING
							THICKNESS 1 1/2"		THICKNESS 1/2"	THICKNESS 1"	THICKNESS 1 1/4"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 1 1/2"	THICKNESS 1 1/4"	THICKNESS 1 1/2"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 2 1/2"	THICKNESS 2 1/4"	THICKNESS 1 1/2"	THICKNESS 1 1/4"	2% PLANED AREA		2 INCH AVG. TH.	
	SLM	SLM	MILES	FEET	FEET		SQ YD	SQ YD	GAL	CU YD				CU YD		SQ YD					CU YD	CU YD	MILES	
Part 3																								
US 224	9.26	9.31	0.05	264	30	1	880	258	75	12		31	1									7	0.10	
US 224	9.31	9.33	0.02	106	36	1	422	258	36	6		15	1									3	0.04	
US 224	9.33	10.89	1.56	8237	36	1	32947	258	2801	458		1144	24									203	3.12	
US 224	10.89	11.18	0.30	1584	36	1	6336		539			220	5					6336	127			39	0.60	
US 224	11.18	11.44	0.25	1320	44	3	6453		549			224						6453	129					
Extra Areas							820	538	70															
Intersections								152	548				223											
Totals								1464	4616		476		1665		223			12789		256	20	252	3.86	
Part 4																								
SR 49	0.00	1.00	1.00	5280	26	1	15253	231	1297	212		530	15									130	2.00	
SR 49	1.00	1.22	0.22	1162	68	2	8777		746			305						8777	176					
Extra Areas							448	448	38				16											
Intersections								162	42				17											
Totals								841	2123	212		850		33				8777		176	20	130	2.00	

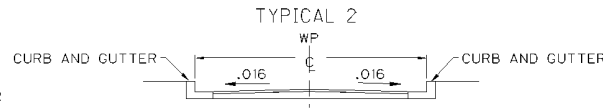
ASPHALT CONCRETE

VAN-33/127/224
49/81/116/118

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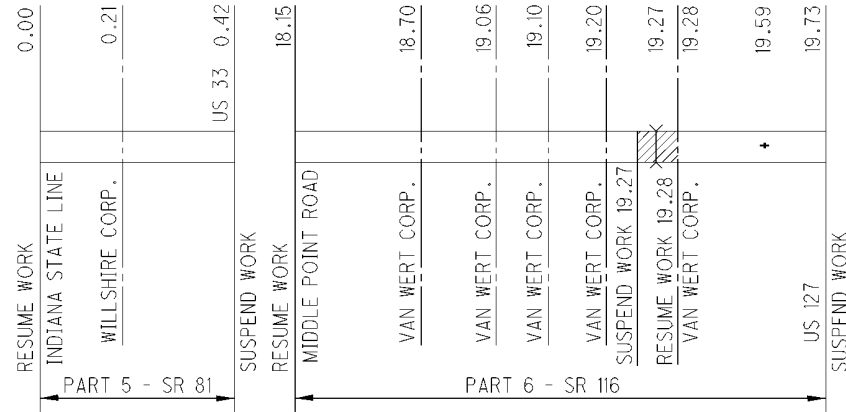


ITEM 617, AS PER
PLAN (TYP.)
SEE SAFETY EDGE DETAILS ON SHEET 0 (TYP.)



NOTE: ALL TOTALS CARRIED
TO GENERAL SUMMARY

NOTE: MAILBOX AND DRIVES
QUANTITIES ARE
INCLUDED IN THE
EXTRA AREAS
NOTE: DRAWINGS NOT TO SCALE



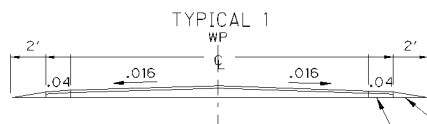
PAVEMENT DATA

ROUTE	FROM	TO	DISTANCE		PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	441						254						304	617	209
								WEARING COURSE REMOVED	NON TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1 (448)		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22			ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22		PAVEMENT PLANING, ASPHALT				PATCHING PLANED SURFACES	AGGREGATE BASE	COMPACTED AGGREGATE	PREPARING SUBGRADE FOR SHOULDER PAVING
								THICKNESS 1 1/2"		THICKNESS 1/2"	THICKNESS 1"	THICKNESS 1 1/4"	THICKNESS 1 1/2"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 1 1/2"	THICKNESS 1 1/4"	THICKNESS 2 1/2"	THICKNESS 2 1/4"	THICKNESS 1 1/2"	THICKNESS 1 1/4"	2X PLANED AREA		2 INCH AVG. TH.	
	SLM	SLM	MILES	FEET	FEET		SQ YD	SQ YD	GAL	CU YD						SQ YD						CU YD	CU YD	MILES
Part 5																								
SR 81	0.00	0.36	0.36	1901	24	1	5069		431	70		176		6									47	0.72
SR 81	0.36	0.42	0.06	317	24	1	645		72		23	29		1			645				17		8	0.12
Extra Areas							348		30						12									
Totals									533		93		212		12		845				17	20	55	0.84
Part 6																								
SR 116	18.15	18.26	0.11	581	24	1	1549		132		43	54		2			1549				31		14	0.22
SR 116	18.26	18.70	0.44	2323	29	1	7486		636		208	260		7			7486				150		57	0.88
SR 116	18.70	19.06	0.36	1901	29	1	6125		521		170	213		5			6125				122		47	0.72
SR 116	19.06	19.10	0.04	211	29	1	681		58		19	24		1			681				14		5	0.08
SR 116	19.10	19.20	0.10	528	29	1	1701		145		47	59		2			1701				34		13	0.20
SR 116	19.20	19.27	0.07	370	29	1	1191		101		33	41		1			1191				24		9	0.14
SR 116	19.27	19.28	0.01	53	bridge																			
SR 116	19.28	19.36	0.10	528	29	2	1701		145					71							34			
SR 116	19.36	19.69	0.31	1637	28	2	5092		433					212							102			
SR 116	19.69	19.73	0.04	211	37	2	868		74					36							17			
Extra Areas								264	264						9									
Intersections							1038	1038	88						36									
Totals								1302	2355		520		988		45		26394				526	20	145	2.24

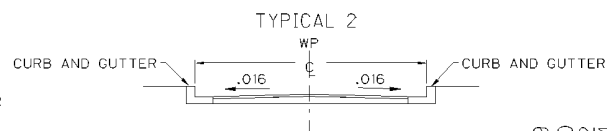
ASPHALT CONCRETE

VAN-33/127/224
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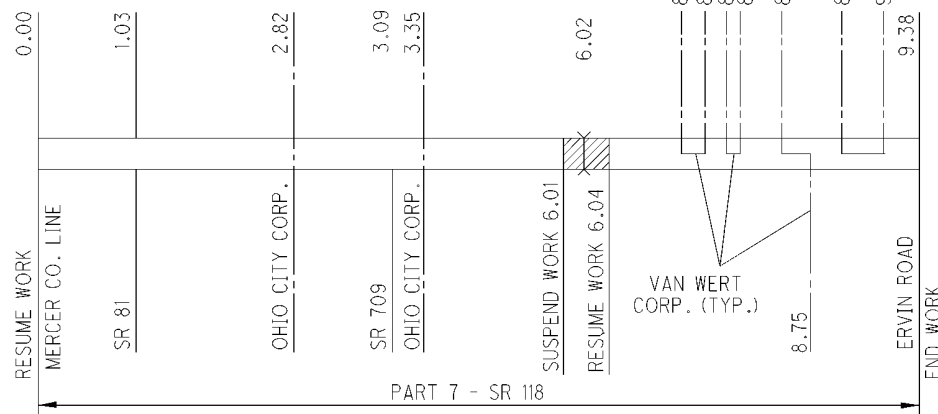
ITEM 617, AS PER
PLAN (TYP.)
SEE SAFETY EDGE DETAILS ON SHEET 0 (TYP.)



NOTE: ALL TOTALS CARRIED
TO GENERAL SUMMARY

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

NOTE: DRAWINGS NOT TO SCALE



PART 7 - SR 118

PAVEMENT DATA

ROUTE	FROM	TO	DISTANCE	PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	441							254					304	617	209																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
							WEARING COURSE REMOVED	NON TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1 (448)		ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22			ASPHALT CONCRETE SURFACE COURSE TYPE 1, (446), PG64-22		PAVEMENT PLANING, ASPHALT				PATCHING PLANED SURFACES	AGGREGATE BASE	COMPACTED AGGREGATE	PREPARING SUBGRADE FO SHOULDER PAVING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
									THICKNESS 1 1/2"	THICKNESS 1"	THICKNESS 1 1/4"	THICKNESS 1 1/2"	QUANTITY USED FOR SAFETY EDGE	THICKNESS 1 1/2"	THICKNESS 1 1/4"	THICKNESS 2 1/2"	THICKNESS 2 1/4"	THICKNESS 1 1/2"	THICKNESS 1 1/4"	2X PLANED AREA				2 INCH AVG. TH.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	SLM	SLM	MILES	FEET	FEET	SQ YD	SQ YD	GAL	CU YD							SQ YD					CU YD	CU YD	MILES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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ASPHALT CONCRETE

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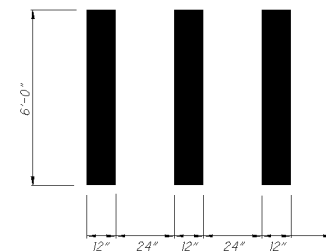
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ROUTE	FROM	TO	DISTANCE	618		621		642				644							
				EDGE LINE	RUMBLE	STRIPE	RPM	RPM	EDGE	CENTER	CHANNELIZING	TRANSVERSE	STOP	LANE	BICYCLE	SCHOOL	PARKING	RR	CROSS
				LINE	STRIPES		REMOVED	REMOVED	LINE	LINE	LINE	DIAGONAL	LINE	ARROW	CROSSING	SYMBOL	STALL	CROSSING	WALK
	SLM	SLM	MILES	FEET	MILE	EACH	EACH	MILE	MILE	FT	FT	FT	EA	FT	EA	FT	EA	FT	FT
Part 1																			
US 33	0.00	0.68	0.68	3485		20	20	1.32	0.66				42						
US 33	0.66	0.75	0.09	475					0.09				72						
US 33	0.75	0.81	0.06	317					0.06				35				459		146
US 33	0.81	0.94	0.13	666					0.13				25						
US 33	0.94	1.25	0.31	1637					0.62	0.31									
US 33	1.25	3.74	2.49	13147	4.48	164	164	4.98	2.49										
SUB-TOTALS					4.48	184	184	6.92	3.74				174				459		146
Part 2																			
US 127	9.11	9.15	0.04	211					0.04	85		77	56	1					
US 127	9.15	9.30	0.15	792					0.15				35						90
US 127	9.30	9.66	0.36	1901					0.36				17						75
US 127	9.66	9.76	0.10	528					0.10			11	42				192		276
US 127	9.76	9.78	0.02	106					0.04										
US 127	9.78	9.80	0.02	106					0.02	37		37	33	1					110
US 127	9.80	9.93	0.13	666					0.17	278			184	6			564	1	754
SUB-TOTALS									0.88	400		125	367	8			756	1	1305
Part 3																			
US 224	9.26	9.31	0.05	264	0.10	3	3	0.10	0.05										
US 224	9.31	9.33	0.02	106	0.04	1	1	0.04	0.02										
US 224	9.33	10.89	1.56	8237	3.12	103	103	3.12	1.56				50		2				38
US 224	10.89	11.19	0.30	1584	0.60	20	20	0.60	0.30										
US 224	11.19	11.44	0.25	1320	0.50	17	17	0.50	0.25										
SUB-TOTALS					4.36	144	144	4.36	2.18				50		2				38
Part 4																			
SR 49	0.00	0.50	0.50	2640		33	33	1.00	0.50										
SR 49	0.50	1.00	0.50	2640		33	33	1.00	0.50										
SR 49	1.00	1.22	0.22	1162					0.22				16						36
SUB-TOTALS						66	66	2.00	1.22				16						36
Part 5																			
SR 81	0.00	0.42	0.42	2216		28	28	0.84	0.42										
SUB-TOTALS						28	28	0.84	0.42										
Part 6																			
SR 116	18.15	18.26	0.11	581		7	7	0.22	0.11				14						
SR 116	18.26	18.70	0.44	2323		29	29	0.88	0.44										
SR 116	18.70	19.06	0.36	1901		24	24	0.72	0.36										
SR 116	19.06	19.10	0.04	211		3	3	0.08	0.04										
SR 116	19.10	19.20	0.10	528		7	7	0.20	0.10										
SR 116	19.20	19.27	0.07	370		5	5	0.14	0.07										
SR 116	19.27	19.28	0.01	53					0.02										
SR 116	19.28	19.36	0.10	528		7	7	0.20	0.10										
SR 116	19.36	19.69	0.31	1637					0.62	347				4					
SR 116	19.69	19.73	0.04	211					0.04	86			77	2					
SUB-TOTALS						82	82	3.08	1.58	433			91	6					

PAVEMENT MARKING SUBTOTALS CARRIED TO SHEET ?

NOTE: UNLESS OTHERWISE NOTED, PROPOSED PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF EXISTING PAVEMENT MARKINGS. PRIOR TO STARTING THE WORK, THE CONTRACTOR AND PROJECT ENGINEER SHALL CONFIRM THE LOCATIONS OF PROPOSED PAVEMENT MARKINGS.

Item 644 Crosswalk Line, As Per Plan



Detail

To be used on US 224 and on SR 118 at the bicycle/pedestrian crossings

CALCULATED
GLJ
CHECKED
EJS

PAVEMENT MARKING SUB-SUMMARY

VAN-33/127/224
49/81/116/118

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ROUTE	FROM	TO	DISTANCE	618		621		642				644							
				EDGE LINE RUMBLE STRIPE		RPM	RPM REMOVED	EDGE LINE	CENTER LINE	CHANNELIZING LINE	TRANSVERSE DIAGONAL LINE	STOP LINE	LANE ARROW	BICYCLE CROSSING	SCHOOL SYMBOL	PARKING STALL MARKING	RR CROSSING SYMBOL	CROSS WALK	CROSS WALK AS PER PLAN
	SLM	SLM	MILES FEET	MILE		EACH	EACH	MILE	MILE	FT	FT	FT	EA	FT	EA	FT	EA	FT	FT
Part 7																			
SR 118	0.00	2.82	2.82 14890			186	186	5.64	2.82			31							
SR 118	2.82	2.89	0.07 370					0.14	0.07										
SR 118	2.89	2.98	0.09 475					0.18	0.09										
SR 118	2.98	3.05	0.07 370					0.14	0.07										
SR 118	3.05	3.35	0.30 1584					0.60	0.30										26
SR 118	3.35	6.01	2.66 14045			176	176	5.32	2.66										
SR 118	6.01	6.04	0.03 158					0.06	0.03										
SR 118	6.04	7.73	1.69 8923			112	112	3.38	1.69										
SR 118	7.73	7.75	0.02 106			1	1	0.04	0.02										
SR 118	7.75	7.89	0.14 739			9	9	0.28	0.14										
SR 118	7.89	8.26	0.37 1954			24	24	0.74	0.37						1				
SR 118	8.26	8.31	0.05 284			3	3	0.10	0.05										
SR 118	8.31	8.40	0.09 475			6	6	0.18	0.09	256			3						
SR 118	8.40	8.42	0.02 106			1	1	0.04	0.02										
SR 118	8.42	8.49	0.07 370			5	5	0.14	0.07						1				
SR 118	8.49	8.61	0.12 634			8	8	0.24	0.12	144	120		1						
SR 118	8.61	8.70	0.09 475			6	6	0.18	0.09	336	44	64	4						
SR 118	8.70	9.36	0.66 3485			87	87	1.32	1.32	222	62	88	34		1				
SUB-TOTALS						302	302	18.72	10.12	960	226	163	42		3				26

PAVEMENT MARKING SUBTOTALS CARRIED TO SHEET 26

NOTE: UNLESS OTHERWISE NOTED, PROPOSED PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF EXISTING PAVEMENT MARKINGS. PRIOR TO STARTING THE WORK, THE CONTRACTOR AND PROJECT ENGINEER SHALL CONFIRM THE LOCATIONS OF PROPOSED PAVEMENT MARKINGS.

INTERSECTION	SLM	SIDE	PAVT AREA	202		407	441	
				WEARING COURSE REMOVED		TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22	
				THICKNESS 1 1/2"	THICKNESS 1 1/4"	0.085 GAL/SY	THICKNESS 1 1/2"	THICKNESS 1 1/4"
			SO YD	SO YD		GAL	CU YD	
Part 1								
Road 50N	0.00	R	340	340		28.9	14.2	
Railroad St.	0.33	L	87	87		5.7	2.8	
Plum St.	0.36	L	45	45		3.8	1.9	
Cherry St.	0.44	L	52	52		4.4	2.2	
SR 81	0.53	R	199	199		16.9	8.3	
Alley	0.57	R	23	23		2.0	1.0	
Hogan St.	0.60	R	72	72		6.1	3.0	
Hogan St.	0.60	L	68	68		5.8	2.8	
Alley	0.64	L	27	27		2.3	1.1	
Sprague St.	0.67	R	61	61		5.2	2.5	
Sprague St.	0.67	L	45	45		3.8	1.9	
State St.	0.75	R	112	112		9.5	4.7	
SR 49/SR 81	0.75	R	126	126		10.7	5.3	
Simpson St.	0.81	R	172	172		14.6	7.2	
Simpson St.	0.81	L	132	132		11.2	5.5	
South St.	0.89	R	60	60		5.1	2.5	
SR 49	0.94	R	178	178		15.1	7.4	
Wabash Rd.	3.46	R	221			18.8		7.7
Sub-Totals				1779	12	170	74	8

INTERSECTION SUBTOTALS CARRIED TO SHEET 5

INTERSECTION	SLM	SIDE	PAVT AREA	202	407	441
				WEARING COURSE REMOVED	TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22
				THICKNESS 1 1/2"	0.085 GAL/SY	THICKNESS 1 1/2"
			SO YD	SO YD	GAL	CU YD
Part 2						
Webster Ave.	9.27	L	104	104	8.8	4.3
Boyd Ave.	9.38	L	158	158	13.4	6.6
Garden Dr.	9.51	R	56	56	4.8	2.3
Keplar St.	9.55	R	128	128	10.9	5.3
South Ave.	9.57	L	96	96	8.2	4.0
Raymond St.	9.61	R	99	99	8.4	4.1
Raymond St.	9.61	L	119	119	10.1	5.0
Maple Ave.	9.66	R	77	77	6.5	3.2
Maple Ave.	9.66	L	45	45	3.8	1.9
Crawford St.	9.71	R	51	51	4.3	2.1
Crawford St.	9.71	L	95	95	8.1	4.0
Central Ave.	9.80	R	197	197	16.7	8.2
Central Ave.	9.80	L	112	112	9.5	4.7
Main St.	9.87	R	141	141	12.0	5.9
Main St.	9.87	L	161	161	13.7	6.7
Sub-Totals				1639	139	68

INTERSECTION SUBTOTALS CARRIED TO SHEET 5

INTERSECTION	SLM	SIDE	PAVT AREA	202	407	441
				WEARING COURSE REMOVED	TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22
				THICKNESS 1 1/4"	0.085 GAL/SY	THICKNESS 1 1/4"
			SQ YD	SQ YD	GAL	CU YD
Part 3						
Liberty Union Rd.	9.26	R	430	15	36.6	14.9
Liberty Union Rd.	9.26	L	327	15	27.8	11.4
VW Deacatur Rd.	9.37	R	1505	19	127.9	52.3
VW Deacatur Rd.	9.47	R	1212	27	103.0	42.1
Old Tile Factory Rd.	10.10	R	763	17	64.9	26.5
Old Tile Factory Rd.	10.10	L	368	15	33.0	13.5
CR 416	10.89	R	1136	22	96.7	39.5
CR 416	10.89	L	661	22	56.2	23.0
Sub-Totals				152	546	223

INTERSECTION SUBTOTALS CARRIED TO SHEET 6

INTERSECTION	SLM	SIDE	PAVT AREA	202	407	441
				WEARING COURSE REMOVED	TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22
				THICKNESS 1 1/4"	0.085 GAL/SY	THICKNESS 1 1/4"
			SQ YD	SQ YD	GAL	CU YD
Part 4						
Scheidt Rd.	0.00	R	183	14	15.6	6.4
Scheidt Rd.	0.00	L	168	12	14.3	5.8
Green St.	1.20	L	136	136	11.8	4.7
Sub-Totals				162	42	17

INTERSECTION SUBTOTALS CARRIED TO SHEET 6

INTERSECTION	SLM	SIDE	PAVT AREA	202	407	441
				WEARING COURSE REMOVED	TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22
				THICKNESS 1 1/4"	0.085 GAL/SY	THICKNESS 1 1/4"
			SQ YD	SQ YD	GAL	CU YD
Part 6						
Mendon Rd.	18.20	R	115	115	9.8	4.0
Mendon Rd.	18.20	L	149	149	12.7	5.2
Willow Ridge Lane	18.71	L	82	82	7.0	2.8
Nanette Lane	18.91	R	47	47	4.0	1.6
Garfield St.	18.98	R	44	44	3.7	1.5
Greenville Rd.	19.10	L	188	188	16.0	6.5
Walnut St.	19.11	R	350	350	29.8	12.2
Turnbury Way	19.15	L	63	63	5.4	2.2
Sub-Totals				1036	88	36

INTERSECTION SUBTOTALS CARRIED TO SHEET 7

INTERSECTION	SLM	SIDE	PAVT AREA	202	407	441
				WEARING COURSE REMOVED	TACK COAT	ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), PG64-22
				THICKNESS 1 1/4"	0.085 GAL/SY	THICKNESS 1 1/4"
			SQ YD	SQ YD	GAL	CU YD
Part 7						
SR 81	1.03	R	283	19	24.1	9.8
SR 81	1.03	L	228	18	19.4	7.9
Walnut Grove Rd.	2.05	R	119	20	10.1	4.1
Walnut Grove Rd.	2.05	L	103	17	8.8	3.6
Skinner St.	2.83	R	155	155	13.2	5.4
Hoffman St.	2.89	R	76	76	6.5	2.6
Banner St.	2.96	R	75	75	6.4	2.6
Jefferson St.	3.01	R	101	101	8.6	3.5
Jefferson St.	3.01	L	77	77	6.5	2.7
Railroad St.	3.07	R	50	50	4.3	1.7
SR 709	3.09	R	129	129	11.0	4.5
Carmean St.	3.09	L	54	54	4.6	1.9
Koch St.	3.15	R	100	100	8.5	3.5
Woodlawn St.	3.21	L	77	77	6.5	2.7
Wise St.	3.22	R	85	85	7.2	3.0
Lambert St.	3.28	R	64	64	5.4	2.2
Alley	3.34	R	36	36	3.1	1.3
TR 58	3.60	R	101	14	8.6	3.5
TR 60	4.12	R	60	14	5.1	2.1
TR 60	4.12	L	96	16	8.2	3.3
CR 70	5.15	R	116	16	9.9	4.0
CR 70	5.15	L	106	15	9.0	3.7
TR 74	5.65	L	50	11	4.3	1.7
TR 82	6.17	R	101	13	8.6	3.5
TR 90	6.67	R	108	13	9.2	3.8
TR 90	6.67	L	85	12	7.2	3.0
CR 6	7.21	L	174	21	14.8	6.0
TR 104	7.75	R	127	127	10.8	4.4
Fox Rd.	8.84	R	722	722	61.4	25.1
Sub-Totals			3658	2147	311	127

INTERSECTION SUBTOTALS CARRIED TO SHEET 8

CALCULATED
GLJ
CHECKED
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INTERSECTION SUB-SUMMARY

VAN-33/127/224
49/81/116/118

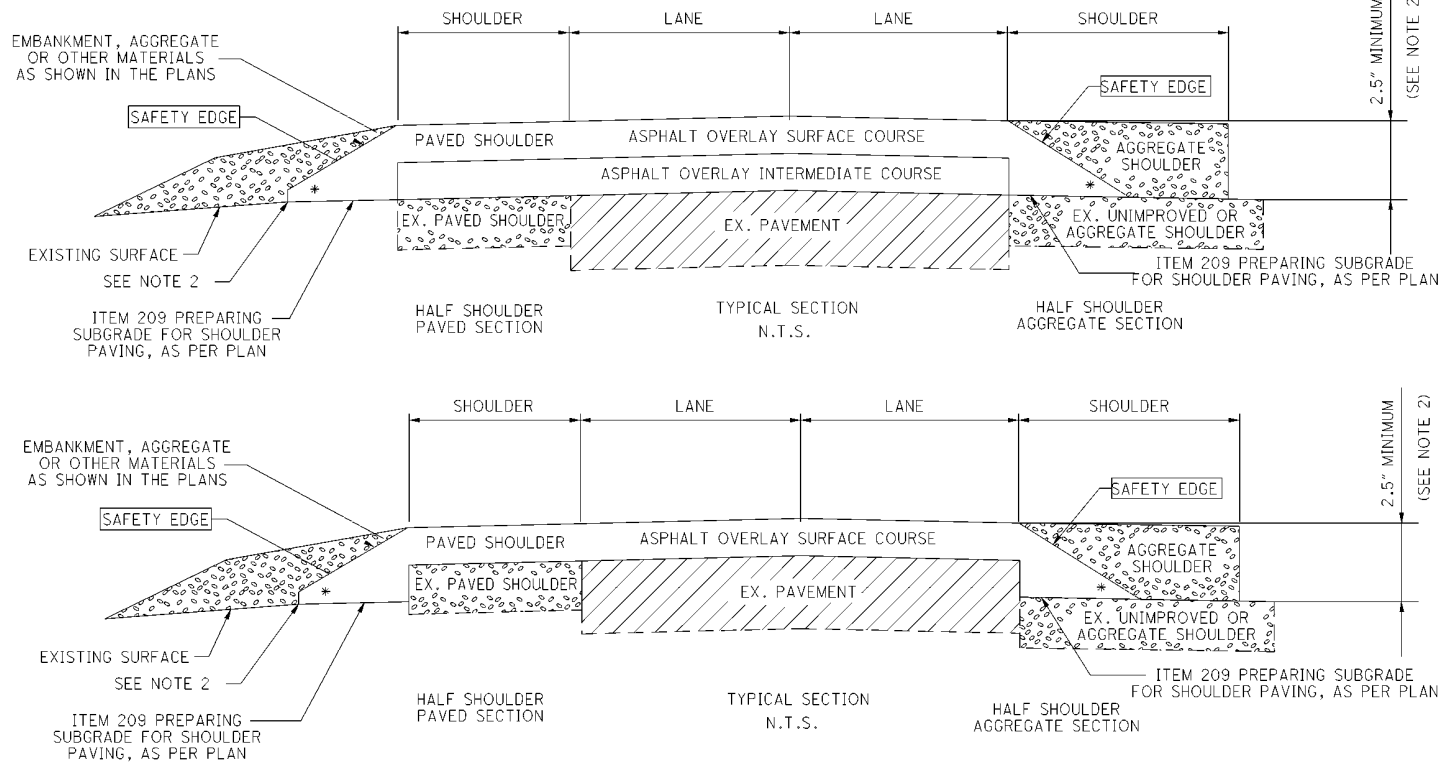
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NOTES

- 1.) SAFETY EDGES ARE REQUIRED AT THE OUTSIDE EDGES OF PAVED ROADWAY (EDGE TRAVELED LANE OR EDGE OF SHOULDER).
- 2.) CONSTRUCT THE SAFETY EDGE THE FULL ASPHALT CONCRETE OVERLAY THICKNESS OR 2.5" WHICHEVER IS GREATER, NOT TO EXCEED THE MAXIMUM SAFETY EDGE THICKNESS OF 6". CONSTRUCT A NEAR VERTICAL FACE BELOW THE SAFETY EDGE FOR THICKNESS GREATER THAN 6"
- 3.) BLADE AND SHAPE EXISTING SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE SFAETY EGDE PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY.

* 40° MAX.



SAFETY EDGE PLAN NOTE

In addition to the requirements of 401.02, attach a device to the screed of the paver that confines the material at the end gate and extrudes the asphalt material in such way that results in a compacted wedge shape pavement edge of approximately 30 degrees (not steeper than 40 degrees). Ensure the device maintains contact with the existing surface, and allow for automatic transition to cross roads, driveways and obstructions. Do not use conventional single plate strike off.

Construction of the safety edge can be omitted at locations where existing width of graded shoulder or berm is less than 12". Projects with varying condition should use safety edge where possible. Plan preparation has made every reasonable attempt to identify possible safety edge locations.

Use the TransTech Safety Wedge Maker, the Carlson Safety Edge End Gate, the Advant-Edger, the Troxler SafeTSlope or a similar approved-equal device that produces the same wedge consolidation results. Contact information for these wedge shape compaction devices is the following:

TransTech Systems, Inc.
1594 State St
Schenectady, NY 12304
1-800-724-6306
www.transtechsys.com

Carlson Safety Edge End Gate
18425 50th Avenue East
Tacoma, WA 98446
253-8975-8000

If electing to use a similar device, provide proof that the device has been used on previous projects with acceptable results or construct a test section prior to the beginning of work and demonstrate wedge compaction to the satisfaction of the Engineer. Short sections of handwork will be allowed when necessary for transitions and turnouts or otherwise authorized by the Engineer.

In addition to the requirements of 401.16, make the first roller pass 8 to 12 inches away from tapered edge. Do not roll the taper.

Advant-Edge Paving Equipment LLC
PO Box 9163
Niskayuna, NY 12309-0163
518-280-6090
www.advataedgепaving.com

Troxler Electronic Laboratories, Inc.
3008 E. Cornwallis Rd.
Research Triangle Park, NC 27709
1-877-TROXLER
www.troxlerlabs.com

ITEM 209 PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

Prepare the shoulder for paving a consistent safety edge in both thickness and width.

Prior to paving the safety edge, grade an area 10 inches wide, beginning at the edge of the paved roadway, to provide a level surface free of vegetation for construction of the safety edge. If necessary, excavate the graded area to the depth necessary to construct the safety edge. Compact the graded shoulder according to 617.05, or as directed by the engineer.

ITEM 441 ASPHALT CONCRETE SURFACE COURSE TYPE 1

A quantity of asphalt material has been included in the general summary to allow for construction of the safety edge as detailed on this sheet.

REFERENCE SHALL BE MADE TO THE FOLLOWING:

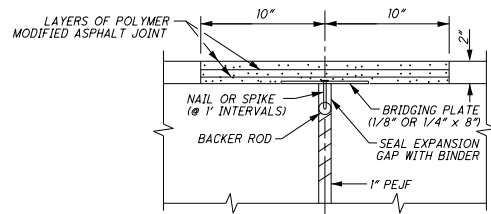
SUPPLEMENTAL SPECIFICATION:
846 DATED 4/17/15

DESIGN SPECIFICATIONS:

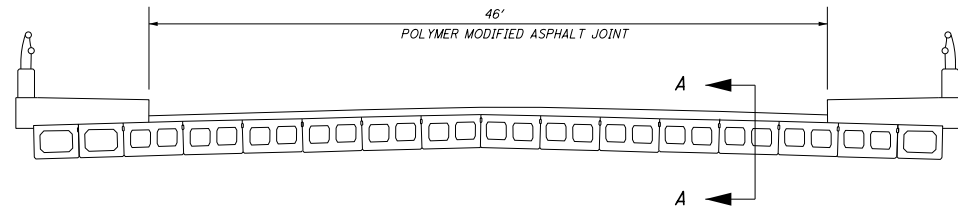
THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DATED 1992 INCLUDING THE 1993 AND 1994 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

ESTIMATED STRUCTURE QUANTITIES - SFN 8102023 (@ SLM 9.77)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202	154	SF	REMOVAL MISC. & POLYMER MODIFIED JOINT
846	26	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

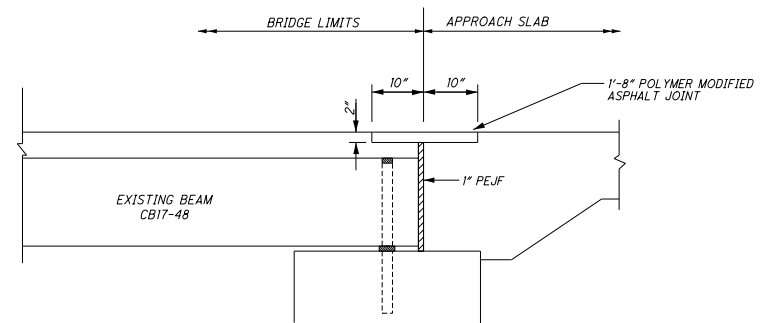
QUANTITIES CARRIED TO GENERAL SUMMARY



POLYMER MODIFIED JOINT DETAIL



TYPICAL SECTION OF EXPANSION JOINT



SECTION A-A

CALCULATED
GLI
CHECKED
EJS

POLYMER MODIFIED JOINT DETAIL

VAN-33 / 127 / 224 /
49 / 81 / 116 / 118

13
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Ref. No.	Intersecting Street	Side	Quantities								
			202		608					609	
			Walk Removed	Curb and Gutter Removed	Curb Ramp A2	Curb Ramp B2	Curb Ramp B2 As Per Plan	Curb Ramp A1	Defectable Warning	6" Thick Concrete Walk	Curb and Gutter
			SF	Feet	SF	SF	SF		SF	SF	Feet
13-R	US 127 and Webster St.	Lt.	96	12		96					2
14-R		Lt.	180	20			180				2
15-R		Lt.	48	8	48						2
16-R	US 127 and Boyd Ave.	Rt.	38	8	38						2
17-R		Lt.	168	16		168					4
18-R		Lt.	150	14			150				4
19-R	US 127 and Garden Dr.	Rt.	42	8	42						2
20-R		Rt.	42	9	42						2
21-R	US 127 and Kepler St.	Rt.	167	12		167					2
22-R		Rt.	176	12		176					2
23-R	US 127 and South Ave.	Lt.	30	7	30						2
24-R		Lt.	228	18		228					4
25-R		Lt.	242	20		242					4
26-R	US 127 and Raymond St.	Rt.	183	12			183				4
27-R		Lt.	136	12		136					4
28-R		Lt.	152	12			152				4
29-R	US 127 and Maple Ave.	Rt.	163	10			163				4
30-R		Rt.	182	20			182				4
31-R		Lt.	150	24		150					10
32-R	US 127 and Crawford St.	Lt.	123	22			123				4
33-R		Rt.	170	22			170				4
34-R		Rt.	135	18			135				4
35-R	US 127 and Central Ave.	Lt.	90	20			90				4
36-R		Lt.	185	28			185				4
37-R	US 127 and Central Ave.	Rt.	97					16	97		
38-R		Lt.	43					16	43		
39-R		Lt.	206	22			206				4
40-R		Rt.	105	16				105			4
	Totals		3727	402	200	1363	1919	105	32	140	92

NOTE: CURB RAMP SUBTOTALS CARRIED TO GENERAL SUMMARY (SHEET 26)

Ref. No.	Intersecting Street	Side	Quantities		
			202	608	
			Walk Removed	Detectable Warning	Concrete Walk
			SF	SF	SF
1-R	US 33 and Plum St.	Lt.	16	8	16
2-R		Lt.	24	8	24
3-R	US 33 and Cherry St.	Lt.	60	8	60
4-R		Lt.	24	8	24
5-R	US 33 and Hogan St.	Lt.	20	8	20
6-R		Rt.	52	8	52
7-R	US 33 and Sprague St.	Lt.	24	8	24
8-R		Lt.	48	8	48
9-R	US 33 and State St.	Lt.	74	8	74
10-R		Rt.	57	8	57
11-R	US 33 and State St.	Lt.	132	8	132
12-R		Lt.	24	8	34
	Totals		555	96	565

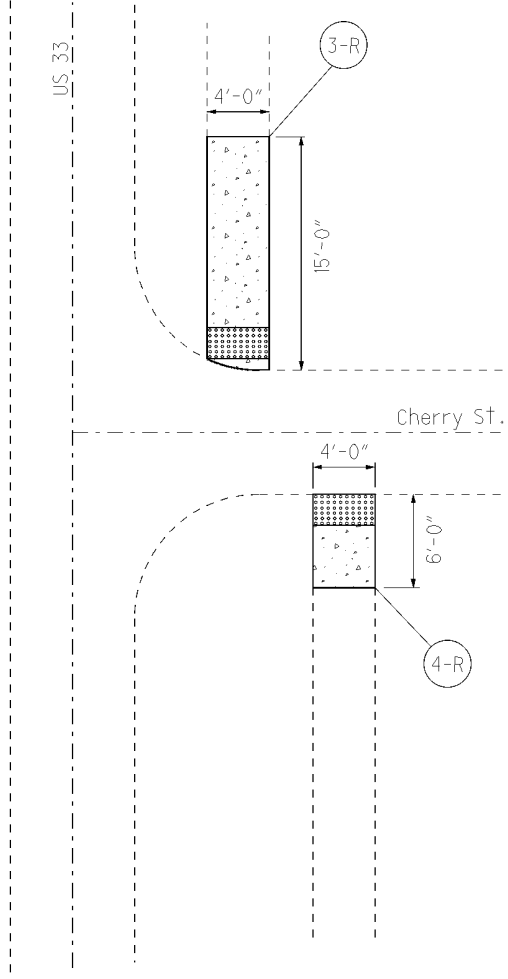
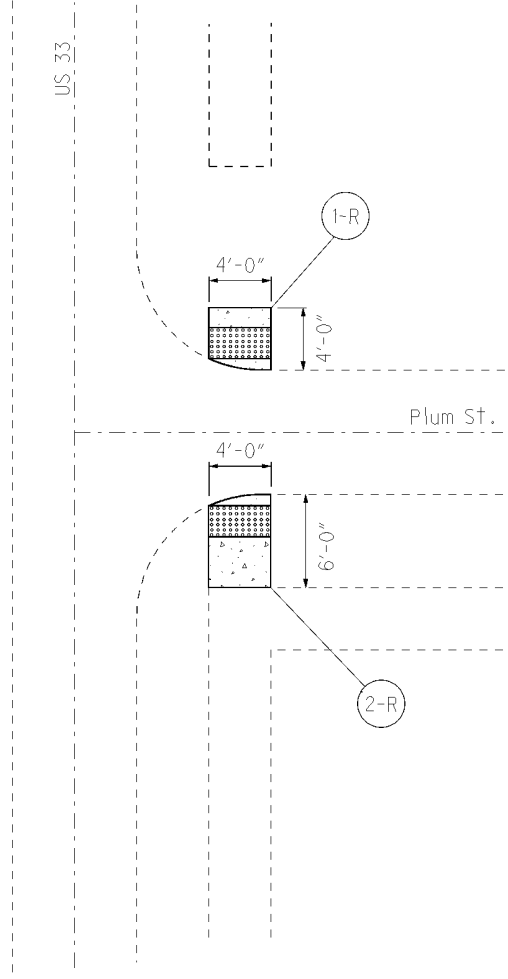
Ref. No.	Intersecting Street	Side	Quantities		
			202	608	
			Walk Removed	Detectable Warning	Concrete Walk
			SF	SF	SF
41-R	SR 118 and Hoffman St.	Rt.	14	8	14
42-R		Rt.	11	8	11
43-R	SR 118 and Banner St.	Rt.	19	8	19
44-R		Rt.	12	8	12
45-R	SR 118 and Jefferson St.	Rt.	48	8	24
46-R		Lt.	71	8	47
47-R		Lt.	46	8	36
48-R	SR 118 and Railroad St.	Rt.	24	8	24
49-R		Rt.	20	8	20
50-R	SR 118 and Koch St.	Rt.	19	8	19
51-R		Rt.	22	8	22
52-R	SR 118 and Wise St.	Rt.	97	8	63
53-R		Rt.	18	8	18
	Totals		421	104	329

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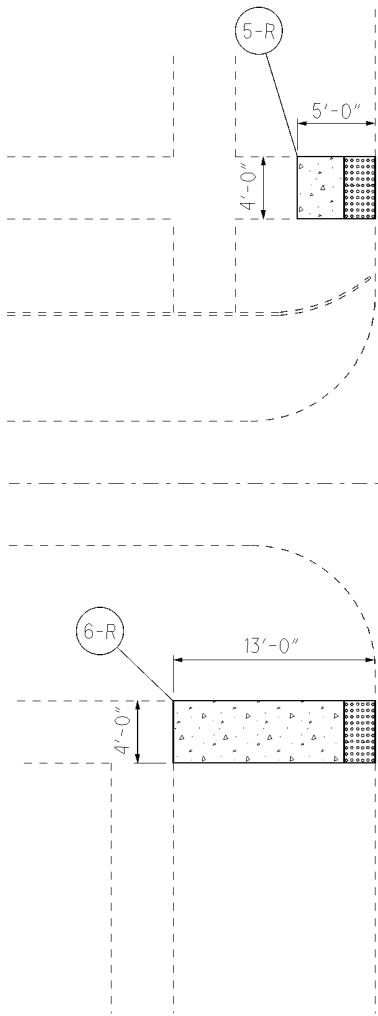
CURB RAMP SUB-SUMMARY

VAN-33/127 / 224
49 / 81 / 116 / 118

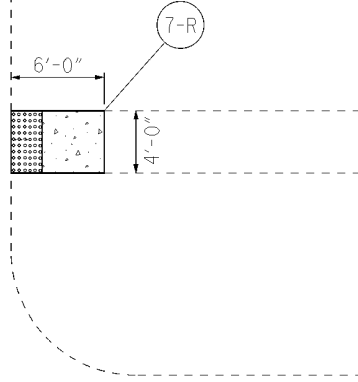
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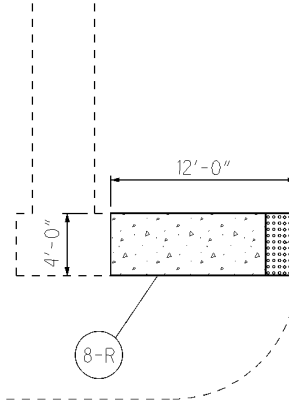
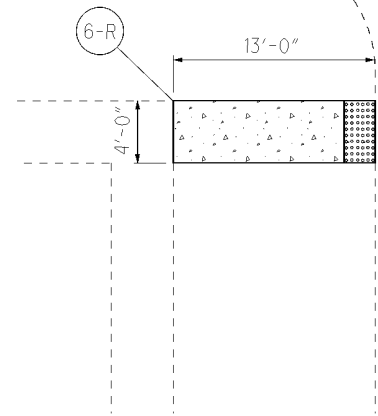
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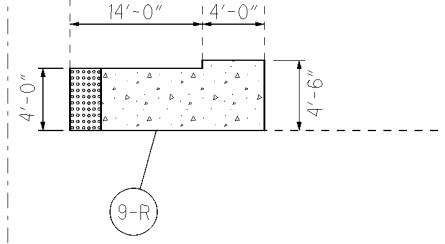
Hogan St.



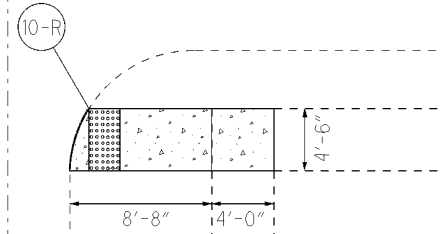
US 33



Sprague St.



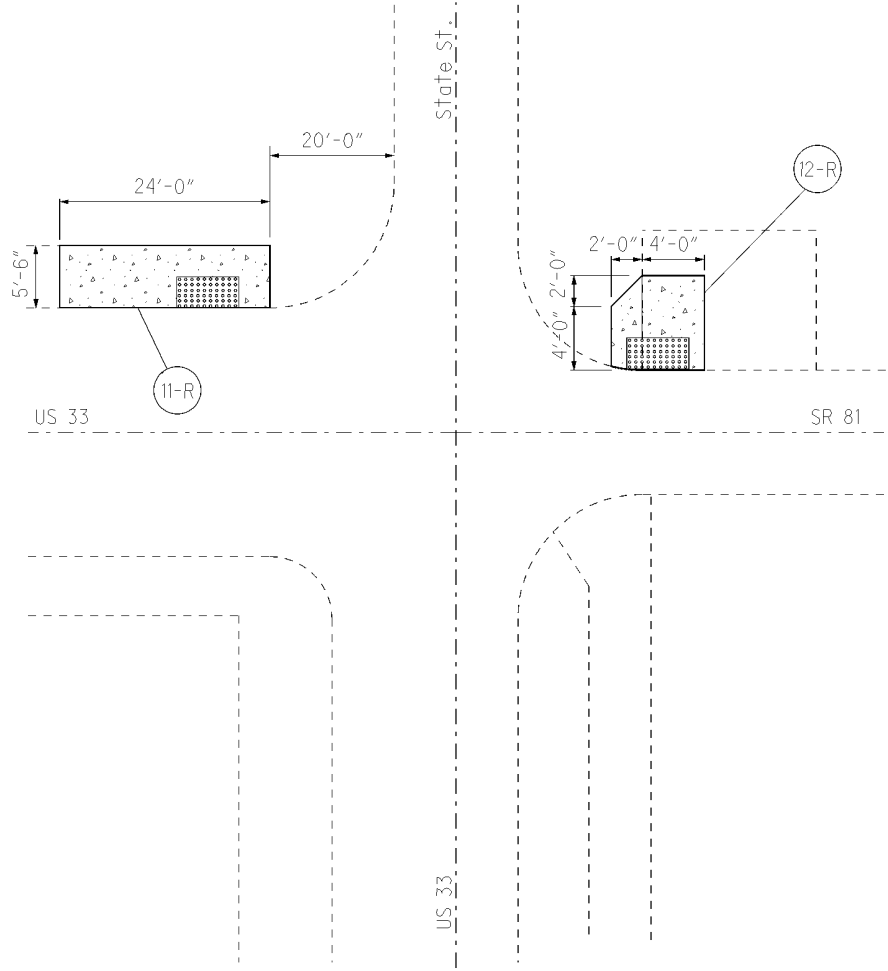
US 33



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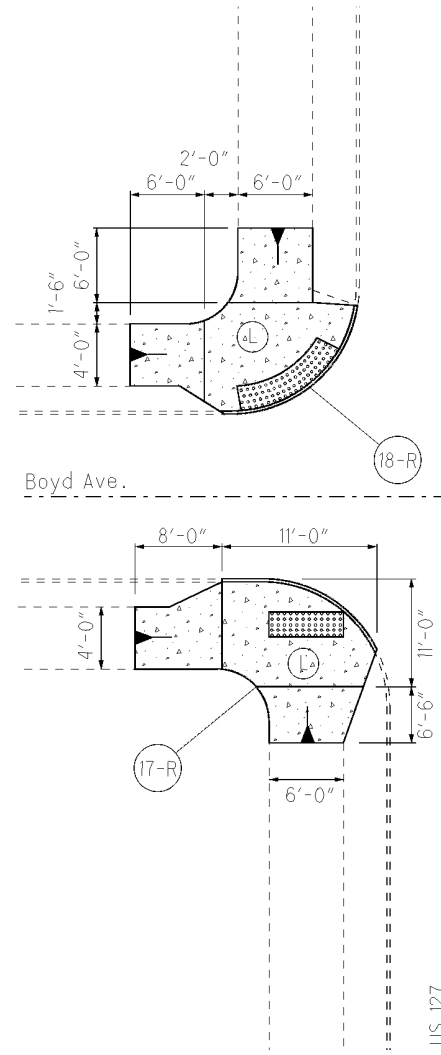
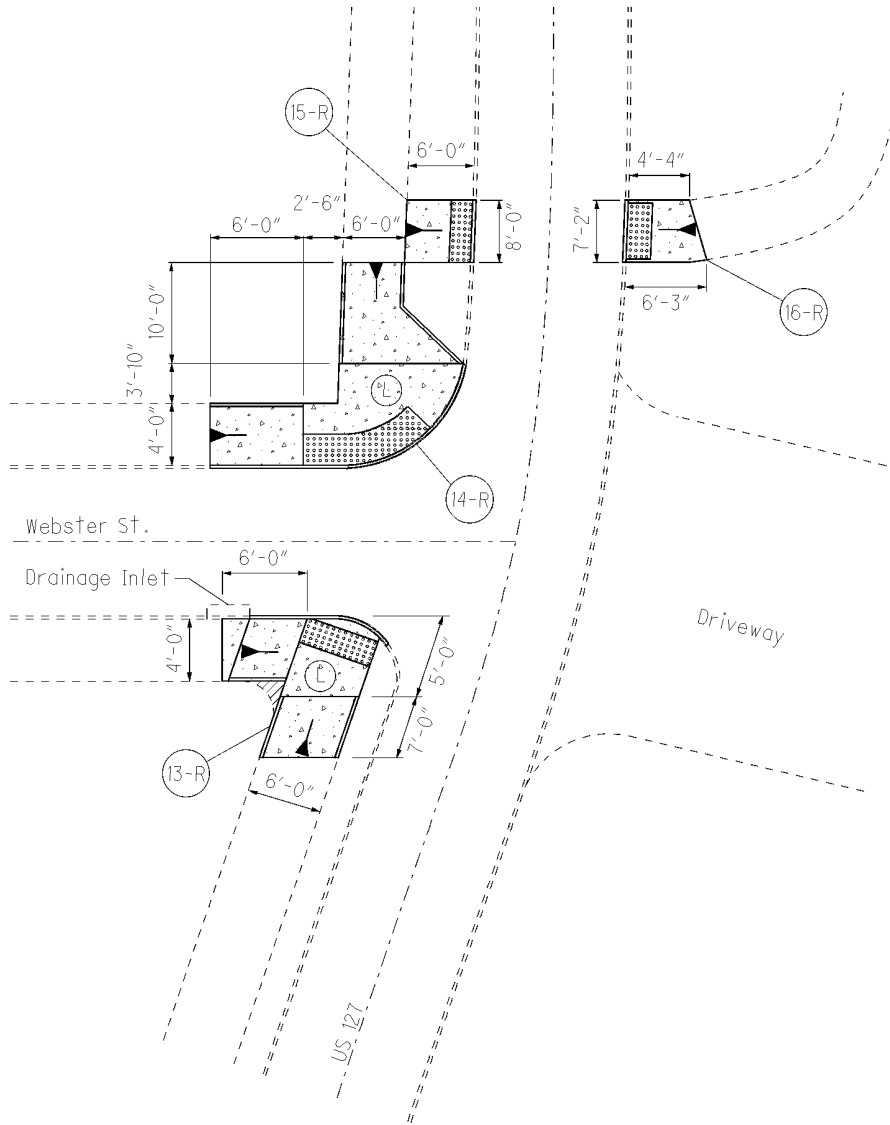


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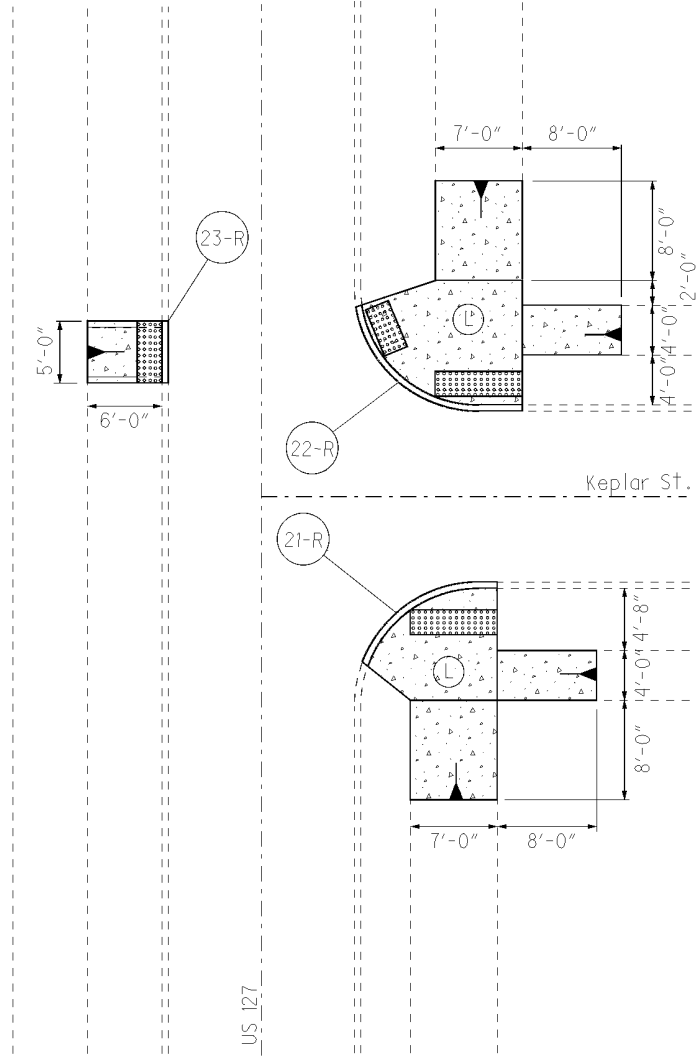
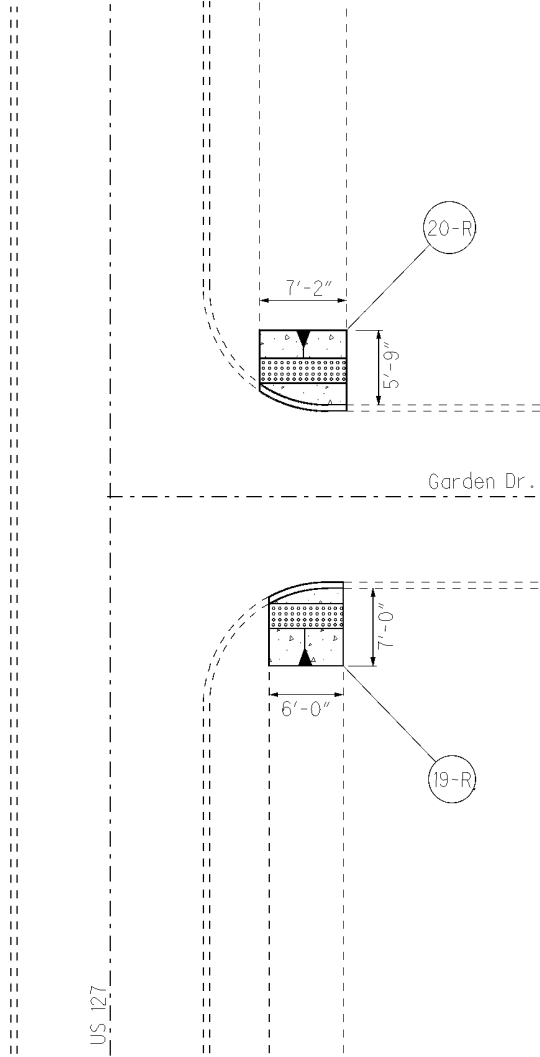
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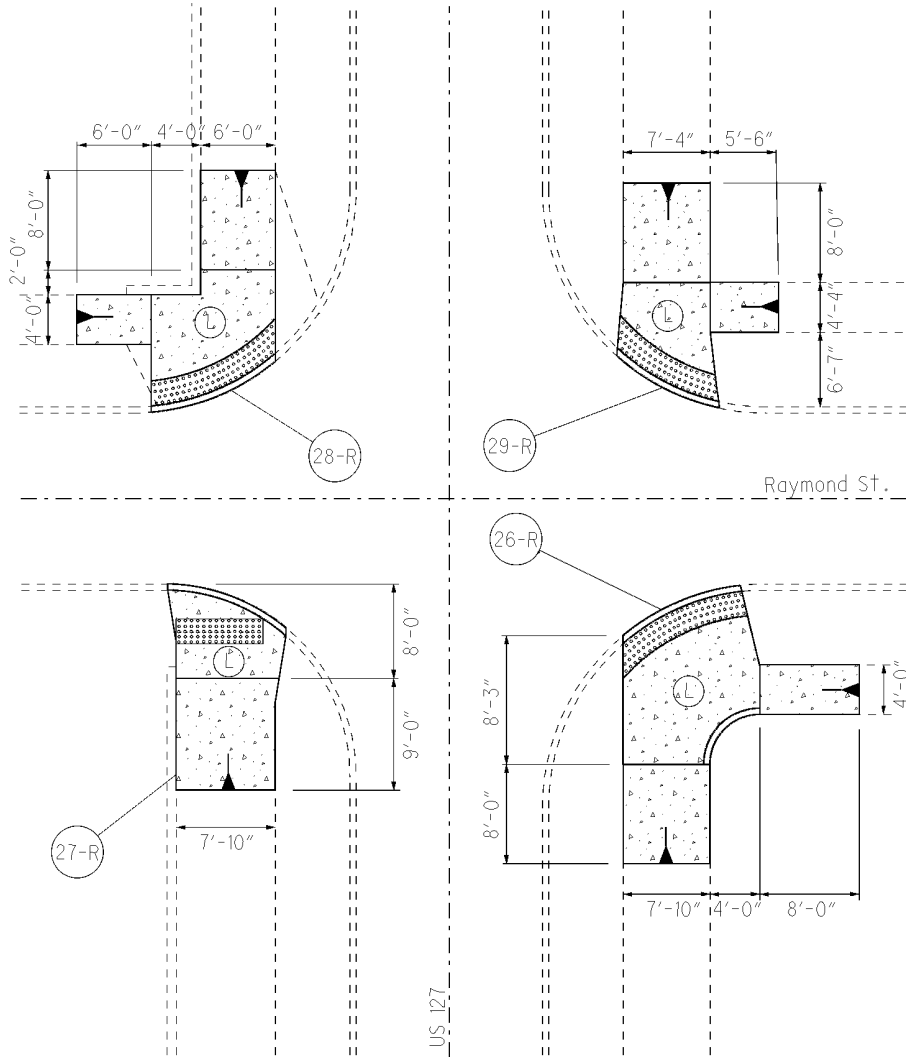
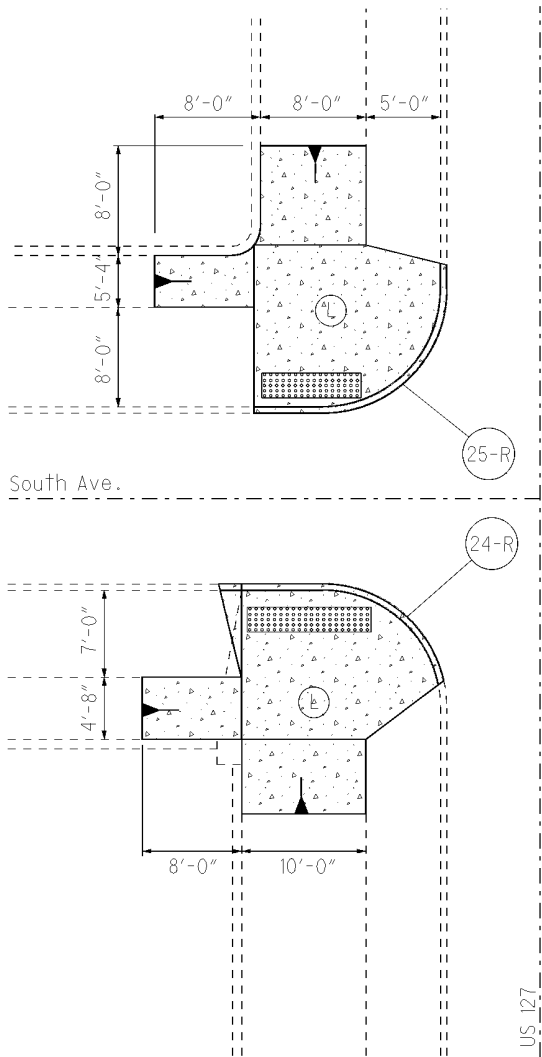
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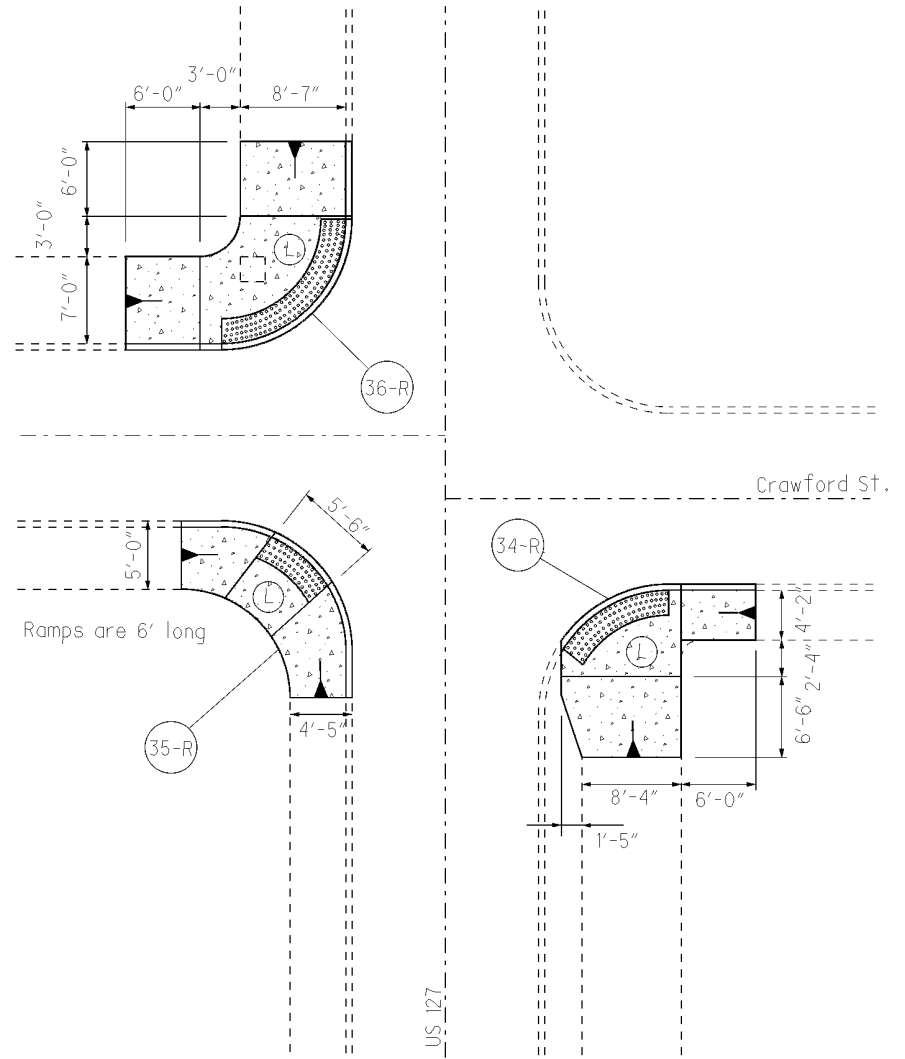
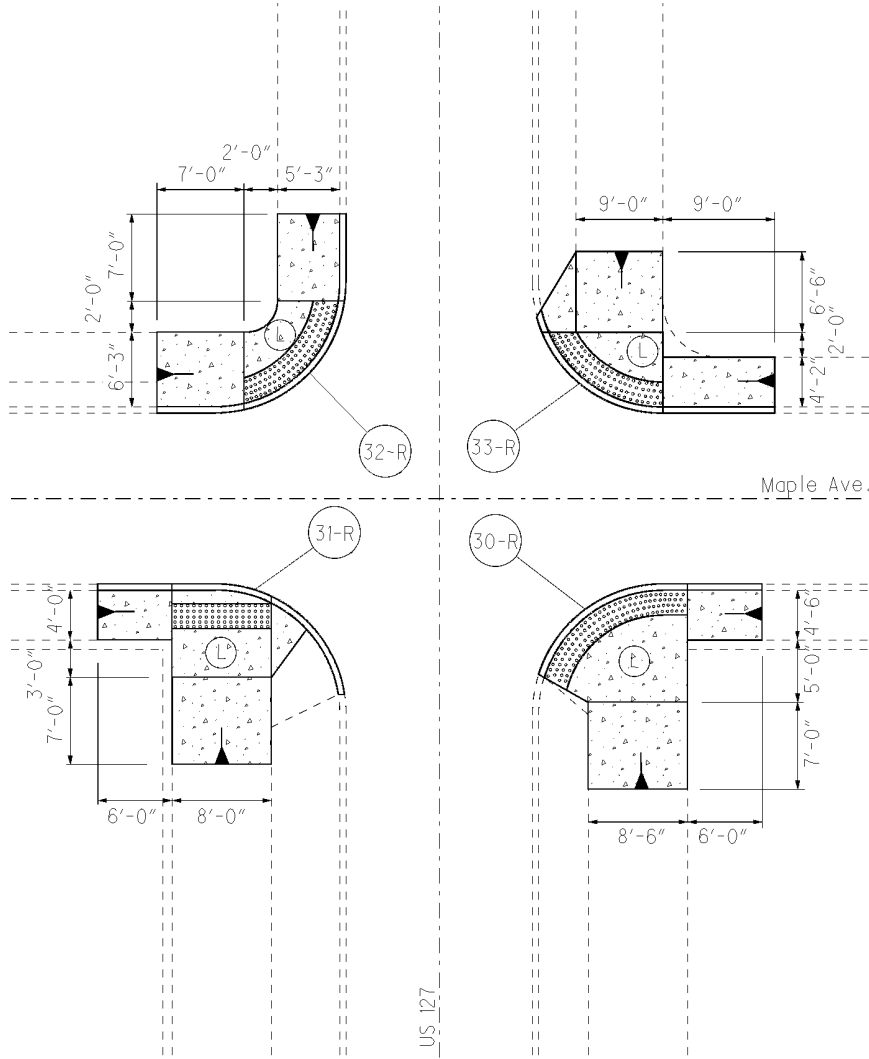
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CURB RAMP DETAILS

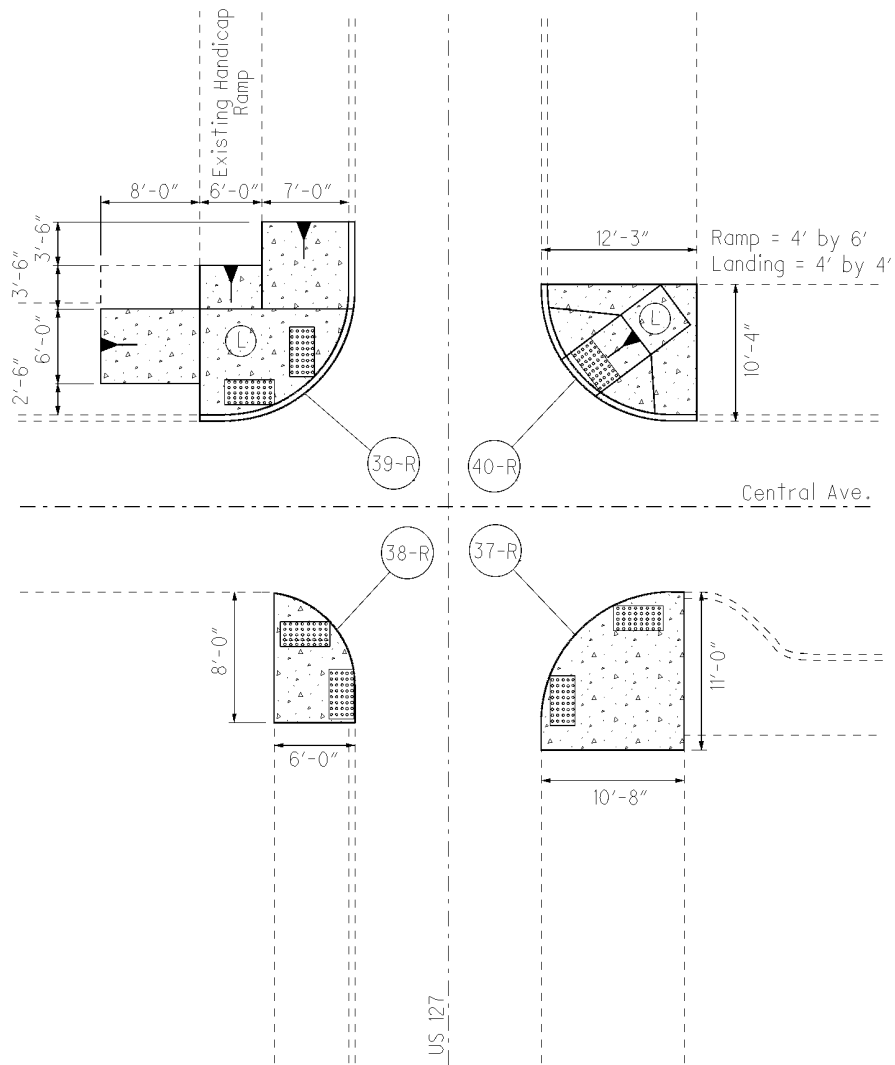
VAN-33/127/224
49/81/116/118



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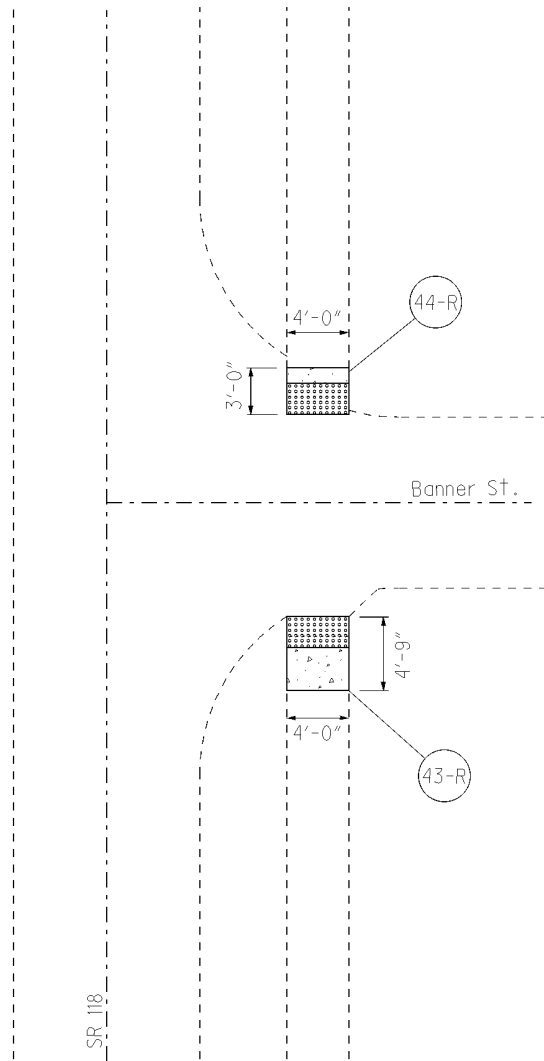
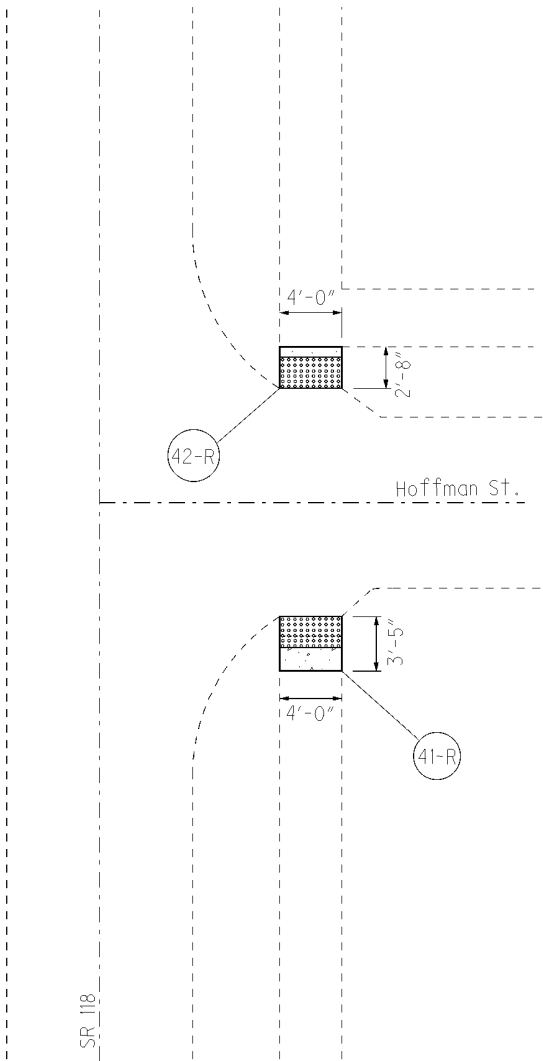
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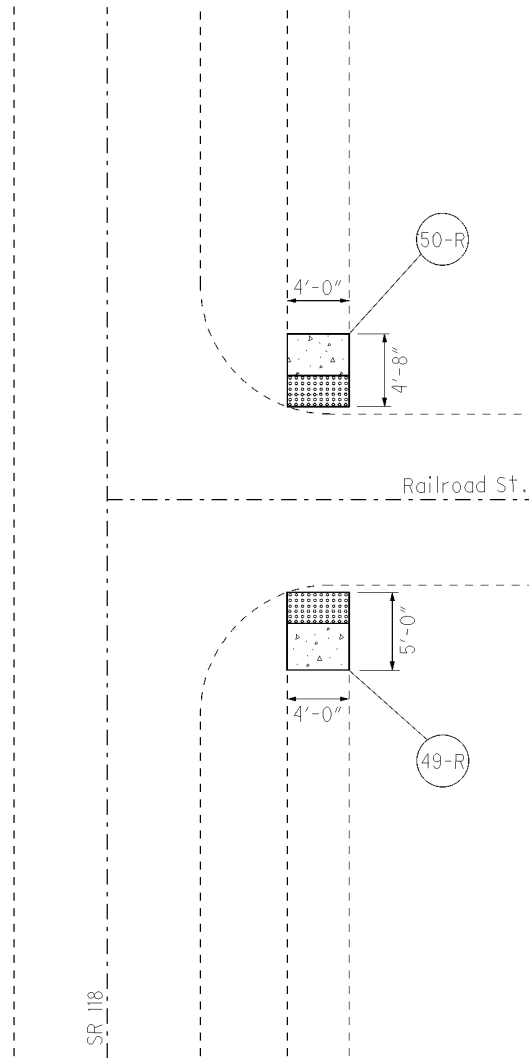
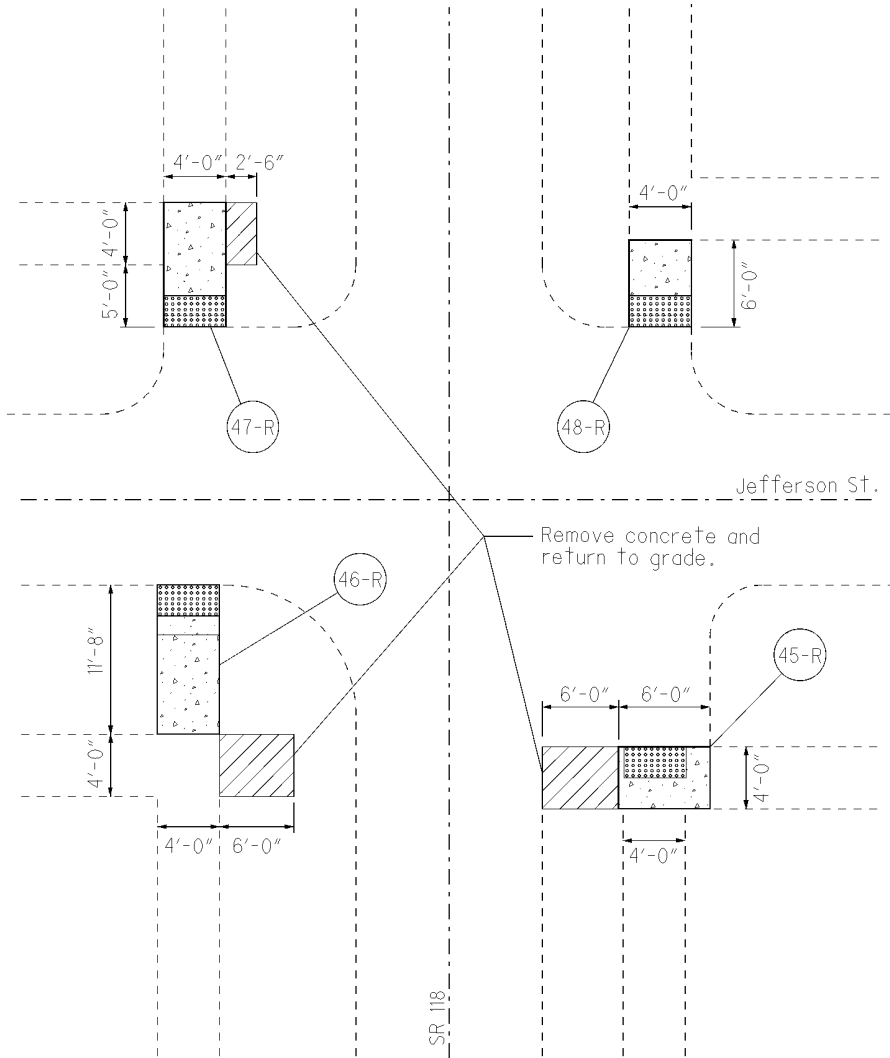




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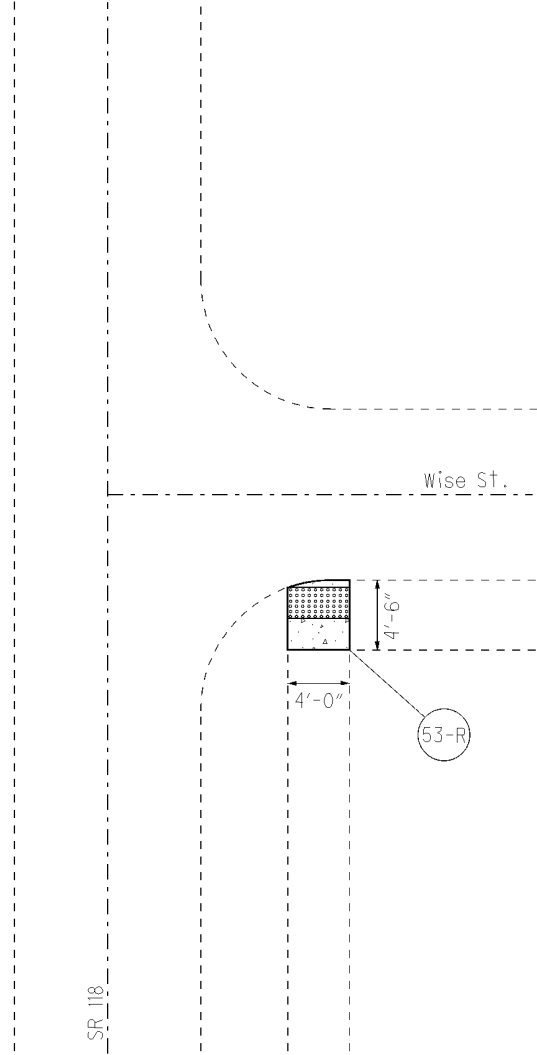
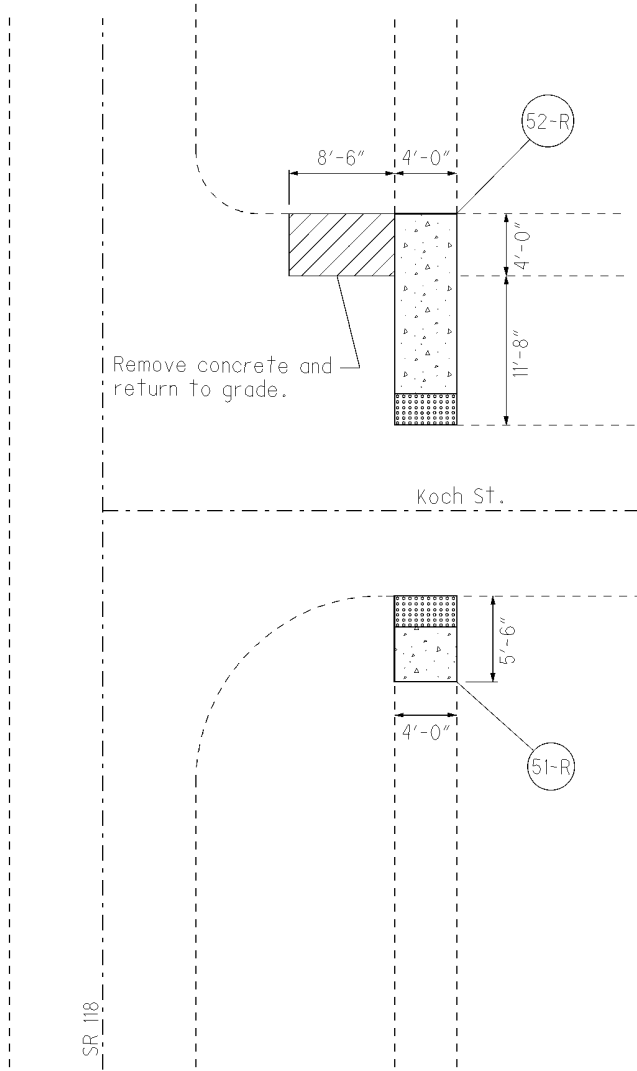


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CURB RAMP DETAILS

VAN-33/127/224
49/81/116/118

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PART NUMBER									PARTICIPATION					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED GLL	CHECKED EJS
1	2	3	4	5	6	7	13		01/STR/ PV	02/S<2/ PV/VAN	03/S<2/ PV	04/NHS/ PV	05/NFP/ OT/VAN								
																	ROADWAY				
2587	1639	1464	841		1302	3649			2889	4149	1857	2587			202	23500	11482	SY	WEARING COURSE REMOVED		
555	3727					421								4703	202	30000	4703	SF	WALK REMOVED		
	402													402	202	32500	402	FT	CURB AND GUTTER REMOVED		
6.92		3.86	2.00	0.84	2.24	18.66			18.24	3.37	5.99	6.92			209	72051	34.52	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN		
565						329								894	608	10000	894	SF	4" CONCRETE WALK	12	
	140													140	608	13000	140	SF	6" CONCRETE WALK		
	1668													1668	608	52000	1668	SF	CURB RAMP		
	1919													1919	608	52001	1919	SF	CURB RAMP, AS PER PLAN		
96	32					104								232	608	53020	232	SF	DETECTABLE WARNING		
	92													92	609	12000	92	SF	COMBINATION CURB AND GUTTER, TYPE 2		
						1			1						659	00300	1	CY	TOPSOIL	4	
						7			7						659	10000	7	SY	SEEDING AND MULCHING	4	
						0.02			0.02						659	20000	0.02	TON	COMMERCIAL FERTILIZER	4	
						1			1						659	35000	1	M. GAL.	WATER	4	
						1000			1000						832	30000	1000	EACH	EROSION CONTROL		

GENERAL SUMMARY

VAN-33/ 127/ 224
49/ 81/ 116 / 118