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E120(588)

297

LOCATION MAP

LATITUDE: 40° 21' 29" LONGITUDE: 82° 17' 53"

PORTION TO BE IMPROVED _ _ _ _ _

DESIGN DESIGNATION	LOCATION 1
DESIGN DESIGNATION	U.S. 62
Functional Classification	RMC
Opening Year ADT (2014)	5,400
Design Year ADT (2026)	6,100
Design Hourly Volume (2026)	730
Directional Distribution	53%
Trucks (24 Hour B&C)	6%
Design Speed	55mph
Legal Speed	55mph

RMC = RURAL MAJOR COLLECTOR

STATE OF OHIO DEPARTMENT OF TRANSPORTATION KNO-62-0.00

VILLAGE OF DANVILLE, VILLAGE OF GANN VILLAGE OF MARTINSBURG

BUTLER, CLAY, HARRISON, MORGAN AND UNION TOWNSHIPS

KNOX COUNTY

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LOC AT ION	C O U N T Y	R O U T E	B E C I N	E N D	L E N G T H	CITY/VILLAGE
1	KNO	62	0.00	22.65	22.65	MARTINSBURG, DANVILLE,

PROJECT DESCRIPTION:

ASPHALT CONCRETE RESURFACING AND RELATED

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

Notice of Intent Earth Disturbed Area =

WORK ON U.S. 62 IN KNOX COUNTY

Project Earth Disturbed Area = N/A (Maintenance Project)

N/A (Maintenance Project)

2013 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PANS AND ESTIMATES.

DESIGN EXCEPTIONS: NONE

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

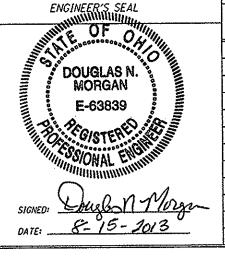
CALL

1-800-362-2764

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 PLANNING & ENGINEERING



STAN	DARD CONST	SUPPLEMENTAL SPECIFICATIONS					
BP-3.1	4-20-12	TC-65.10	4-20-12	800	10-18-13		
BP-4.1	7-19-13	TC-65.11	4-20-12	<i>832</i>	5-5-09		
		TC-71.10	10-19-12				
		TC-73.10	4-20-12				
MT-97.10	7-19-13	TC-82.10	1-18-13				
MT-97.12	7-19-13						
MT-99.20	7-20-12						
MT-101.90	10-19-12				ECIAL		
MT-105.10	7-20-12			PRO	VISIONS		
			·				

DATE 8/15/13 DISTRICT DEPUTY DIRECTOR

DATE 8-30-13 DIRECTOR, DEPARTMENT OF TRANSPORTATION



UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN.
THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL
NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST
UNDER OR ADJACENT TO THE WORK AREA.

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.

NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY FAX AT (614) 887-4510 OR EMAIL AT D05.PIO@DOT.STATE.OH.US

DISTRICT PERMIT SECTION BY FAX AT (614) 887-4525 OR EMAIL AT BRIAN.BOSCH@DOT.STATE.OH.US

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.STATE.OH.US

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN IN THE PLANS ARE TAKEN FROM EXISTING MARKINGS. THE CONTRACTOR SHALL DOCUMENT ALL OF THE EXISTING PAVEMENT MARKING LOCATIONS THAT WILL BE REMOVED/OBLITERATED DURING THIS PROJECT. THE CONTRACTOR SHALL PLACE NEW PAVEMENT MARKINGS AT THE LOCATION OF THE EXISTING MARKINGS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE PLANS. DOCUMENTATION OF PAVEMENT MARKING SHALL BE SUPPLIED TO THE ENGINEER BEFORE COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS. THE METHOD OF DOCUMENTATION SHALL BE APPROVED BY THE ENGINEER IN ORDER TO PROVIDE AN ACCEPTABLE TOLERANCE BETWEEN THE EXISTING AND PROPOSED PAVMENT MARKINGS.

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 209 LINEAR GRADING

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.

THIS WORK MAY BE INTERMITTENT AND SPREAD THROUGHOUT THE PROJECT LIMITS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL ONLY BE PAID FOR INTERSECTIONS AND GAPS IF THEY ARE WITHIN THE LIMITS OF A SECTION MARKED BY THE ENGINEER FOR GRADING.

ALL LINEAR GRADING WORK SHALL BE DONE BEFORE PLACING THE ASPHALT SURFACE COURSE

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE SUB-SUMMARY FOR THE ABOVE PURPOSES.

ITEM 209 LINEAR GRADING LOCATION 1 – 43.54 MILE

SCENIC RIVER PLAN NOTES

PORTIONS OF THE PROJECT AREA ARE WITHIN 1000 FEET OF THE STATE SCENIC KOKOSING AND MOHICAN RIVERS. IN ACCORDANCE WITH THE MEMORANDUM OF AGREEMENT BETWEEN ODOT AND THE OHIO DEPARTMENT OF NATURAL RESOURCES REGARDING WORK WITHIN 1000 FEET OF SCENIC RIVERS, THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CONDITIONS WHEN WORKING WITHIN 1000 FEET OF THE KOKOSING AND MOHICAN RIVERS:

IF ANY EARTHWORK IS PERFORMED WITHIN A PROJECT AREA, THEN A SEDIMENT AND EROSION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED BEFORE EARTHWORK COMMENCES. ALL CONTROLS SHALL BE PROPERLY MAINTAINED UNTIL FINAL SITE STABILIZATION HAS BEEN ACHIEVED. ALL DENUDED AREAS (LOCATION WHERE VEGETATION IS REMOVED) SHALL BE SEEDED AND MULCHED IMMEDIATELY UPON COMPLETION OF EARTHWORK OR WITHIN SEVEN DAYS. PROPERLY INSTALLED (FRAMED AND ENTRENCHED) SEDIMENT FENCE SHALL BE UTILIZED AROUND ANY STORM SEWER INLETS. APPROPRIATELY DESIGNED ROCK CHECK DAMS AND OTHER EROSION CONTROLS SHALL BE UTILIZED IN DITCHES AND CULVERTS. PARTICULAR ATTENTION SHALL BE GIVEN TO WATERCOURSES THAT COULD CONVEY SEDIMENT LADEN WATER DIRECTLY TO A DESIGNATED SCENIC RIVER. ANY DENUDED DITCHES SHALL BE SEEDED AND PROTECTED IMMEDIATELY WITH EROSION CONTROL MATTING OR SOD UPON COMPLETION OF EARTHWORK. STRAW BALES SHALL NOT BE UTILIZED AS A FORM OF SEDIMENT AND EROSION CONTROL. ALL SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA.

IF ROADSIDE DITCH MAINTENANCE IS NECESSARY WITHIN 1000 FEET OF A DESIGNATED STATE SCENIC RIVER, THEN THE DITCH SHALL BE MAINTAINED ONLY FOR THE ORIGINAL INTENDED FUNCTION AND RESTORED TO THE ORIGINAL DESIGN CONFIGURATION. ANY DENUDED DITCHES SHALL BE SEEDED AND PROTECTED IMMEDIATELY WITH EROSION CONTROL MATTING OR SOD UPON COMPLETION OF EARTHWORK. STRAW BALES SHALL NOT BE UTILIZED AS A FORM OF SEDIMENT AND EROSION CONTROL. ALL SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA.

SCENIC RIVER PLAN NOTES, CONT'D

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINTS, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO A SCENIC RIVER OR ANY TRIBUTARY WATER COURSES. ALL ASPHALT OR CONCRETE GRINDINGS, EXCESS ASPHALTIC OR CONCRETE MATERIALS OR ANY OTHER DEBRIS GENERATED DURING RESURFACING OR OTHER SIMILAR ACTIVITIES SHALL BE REMOVED IMMEDIATELY FROM WITHIN 1000 FEET OF A SCENIC RIVER AND DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOOD ELEVATION AND NOT WITHIN 1000 FEET OF THE SCENIC RIVER.

ITEM 253 PAVEMENT REPAIR

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 PLANING OPERATION. THE INTENT OF THIS OPERATION IS TO REPAIR THOSE AREAS OF PAVEMENT WHICH HAVE COMPLETELY FAILED (PUMPING OF SUB-BASE MATERIAL) AND NOT TO CORRECT SURFACE IRREGULARITIES. DEPTH OF EXCAVATION SHALL BE 7". THE MINIMUM WIDTH SHALL BE 4 FT. 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, PG64-22 (PLACED AND COMPACTED IN TWO LIFTS).

REPAIR QUANTITIES MAY BE USED ON THE MAINLINE PAVEMENT OR ON PAVED SHOULDERS. 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.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUB-SUMMARIES FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR LOCATION 1 – 1,300 CU.YD.

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE

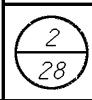
DEPTH OF PLANING ON U.S. 62 VARIES BETWEEN 1.25" AND 2.25" AND SHALL BE AS SHOWN ON THE ASPHALT CONCRETE DATA SHEET. PLANING SHALL BE FULL WIDTH OF PAVEMENT, INCLUDING PAVED SHOULDERS. THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE IS CREATED FROM THE CENTER LINE TO THE EDGE OF PAVEMENT IN TANGENT SECTIONS AND SHALL FOLLOW EXISTING SUPERELEVATIONS WHERE APPLICABLE. ALL REQUIREMENTS OF ITEM 254 SHALL APPLY.

ITEM 407 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.

ITEM 407 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.



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ITEM SPECIAL TACK COAT, TRACKLESS TACK
ITEM SPECIAL TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH NTSS-1HM TRACKLESS TACK PRODUCED BY BLACKLIDGE EMULSIONS, INC. MEET ALL REQUIREMENTS OF CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 407 TACK COAT EXCEPT AS NOTED BELOW.

MATERIAL: CONFORM TO THE FOLLOWING TYPICAL PHYSICAL PROPERTIES:

PARAMETER	TEST METHOD	MIN.	MAX.
SAYBOLT FUROL VISCOSITY, SFS @ 25℃	ASTM D88	15	100
STORAGE STABILITY, 24 HRS, %	ASTM D244		1
STORAGE STABILITY, 5 DAYS, %	ASTM D244		5
RESIDUE BY DISTILLATION, %	ASTM D244	50	
OIL DISTILLATE, %	ASTM D244		1
SIEVE TEST, %	ASTM D244		0.30
TEST ON RESIDUE			
PENETRATION, @ 25℃,	ASTM D5		20
SOFTENING POINT RANGE DEG C	ASTM D36	65	
SOLUBILITY, %	ASTM D2042	97.5	
ORIGINAL BINDER DSR@82℃ G*/SIN δ,10 RAD/SEC	AASHTO T111	1.00	

NOTE: PRODUCT SHOULD NOT CONTAIN FILLER SUCH AS CLAY, ETC KEEP FROM FREEZING.

SUPPLY CERTIFIED TEST DATA TO THE ENGINEER SHOWING THE MATERIAL SUPPLIED WAS TESTED FOR AND MEETS THE ABOVE PROPERTIES.

EQUIPMENT: ALL REQUIREMENTS OF 407.03 APPLY. SEE
MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR
SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF CATIONIC EMULSION
WAS PREVIOUSLY USED.

WEATHER LIMITATIONS: ALL REQUIREMENTS OF 407.04 APPLY.

PREPARATION OF SURFACE: ALL REQUIREMENTS OF 407.05 APPLY.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE ASPHALT MATERIAL WITH A DISTRIBUTOR PER THE REQUIREMENTS OF 407.06 EXCEPT AS NOTED.

DILUTION IS NOT ALLOWED.

IF PRODUCT IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL.

ALL NOZZLES AND SPRAY PATTERNS SHALL BE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. THE ANGLE OF THE NOZZLE SHOULD A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE, AND DISTRIBUTOR AND NOZZLE SETTINGS.

APPLY AT A RATE OF 0.04 TO 0.08 GALLONS PER SQUARE YARD. RECOMMENDED APPLICATION TEMPERATURE IS 160°F TO 180° F. DO NOT EXCEED 180°F.

ITEM SPECIAL TACK COAT, TRACKLESS TACK ITEM SPECIAL TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (CONTINUED)

THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE WILL APPROVE RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT.

THE APPLICATION IS CONSIDERED SATISFACTORY WHEN THE MATERIAL IS APPLIED UNIFORMLY WITH NO VISIBLE EVIDENCE OF STREAKING OR RIDGING AND THE APPLICATION RATE IS ±10% OF THE SPECIFIED RATE.

METHOD OF MEASUREMENT: ALL REQUIREMENTS OF 407.07 APPLY.

BASIS OF PAYMENT: THE DEPARTMENT WILL NOT PAY FOR NON-UNIFORMLY APPLIED MATERIALS AS DEFINED IN 407.06.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

ITEMUNITDESCRIPTIONSPECIALGALLON (LITER)TACK COAT, TRACKLESS TACKSPECIALGALLON (LITER)TACK COAT, TRACKLESS TACK FOR

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.

INTERMEDIATE COURSE

THE FOLLOWING QUANTITIES OF PRIME COAT, AS PER PLAN HAVE BEEN CARRIED TO THE SUB-SUMMARIES AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO PERFORM THE ABOVE MENTIONED WORK.

ITEM 408 PRIME COAT, AS PER PLAN LOCATION 1 -(43.54 MILE x 5,280 x 2')/9 = 51,087 SQ.YD. 51,087 x 0.40 GAL./SQ YD = 20,435 GAL

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. 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 THE ITEMS LISTED BELOW.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUB-SUMMARY FOR THE ABOVE PURPOSES.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22 LOCATION 1 - 24 CU.YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M LOCATION 1 – 31 CU.YD.

ITEM 202 WEARING COURSE REMOVED LOCATION 1 - 870 SQ.YD.

RESIDENTIAL 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 EXTEND AN AVERAGE OF 4' INTO THE DRIVEWAY (MEASURED FROM THE EDGE OF PAVEMENT OR PAVED SHOULDER IF PRESENT), WITH THE MAXIMUM DISTANCE TO BE DIRECTED BY THE ENGINEER, IN ORDER TO PROVIDE A SMOOTH TRANSITION AND/OR ELIMINATE SHORT DISTANCES OF UNDESIRABLE PROFILE. ABRUPT CHANGES IN DRIVEWAY PROFILE ARE NOT PERMITTED.

FIELD DRIVES AND OIL WELL DRIVES SHALL NOT BE PAVED. GRAVEL DRIVES SHALL BE PAVED BACK AN AVERAGE OF 4' INTO THE DRIVE-WAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONCRETE AND ASPHALT DRIVES SHALL HAVE BUTT JOINTS OR AS SHORT AN ASPHALT TAPER AS POSSIBLE (AVERAGE OF 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 AN ASPHALT TAPER AS POSSIBLE (AVERAGE OF 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 THE ITEMS LISTED BELOW.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUB-SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M LOCATION 1 – 67 CU.YD.

ITEM 202 WEARING COURSE REMOVED LOCATION 1 - 1,920 SQ.YD.

ITEM 516 2" DEEP JOINT SEALER, AS PER PLAN

THE CONTRACTOR SHALL PLACE A 1" X 2.0" DEEP BEAD OF JOINT SEALER (AS PER 705.04) AT THE LOCATIONS SHOWN IN PLANS. THE CONTRACTOR SHALL SAW CUT A CHANNEL FOR THE JOINT SEALER. THE COST FOR SAW CUTTING THE CHANNEL FOR THE JOINT SEALER SHALL BE INCLUDED FOR PAYMENT WITH ITEM 516, 2" DEEP JOINT SEALER, AS PER PLAN.

ITEM 611 CATCH BASIN/ MANHOLE/ INLET ADJUSTED TO GRADE ITEM 638 VALVE BOX ADJUSTED TO GRADE

THESE ITEMS SHALL BE USED TO ADJUST CATCH BASINS, MANHOLES, INLETS AND WATER VALVE BOXES LOCATED THROUGHOUT THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED SHALL BE INCLUDED FOR PAYMENT WITH THE ITEMS LISTED BELOW.

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

LOCATION 1:

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE - 5 EACH

ITEM 611 -INLET ADJUSTED TO GRADE - 7 EACH

ITEM 611 - MANHOLE ADJUSTED TO GRADE - 15 EACH

ITEM 638 – VALVE BOX ADJUSTED TO GRADE – 3 EACH

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SAFETY EDGE PLAN NOTE

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CAMPACTED 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 SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BERM IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANS TECH SHOULDER 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 Street Schenectady, NY 12304 1-800-724-6306 www.transtechsys.com

Carlson Safety Edge End Gate 18425 50th Avenue East Tacoma, WA 98446 253-875-8000 Advant-Edge Paving Equipment, LLC. P.O. Box 9163 Niskayuna, NY 12309-0163 518-280-6090 www.advantaedgepaving.com

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

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 TUENOUTRS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES (200 TO 300 mm) AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE SUB-SUMMARY TO PROVIDE EXTRA ASPHALT FOR CONSTRUCTION OF THE SAFETY EDGE:

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M LOCATION 1 – 180 CU.YD.

ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

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

ITEM 621 RAISED PAVEMENT MARKER REMOVED

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 614 MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON U.S. 62 BY USE OF THE EXISTING PAVEMENT AND STANDARD DRAWING MT-97.12.

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRAFFIC MAY BE MAINTAINED ON THE PLANED SURFACE FOR A MAXIMUM OF 5 DAYS IN UNCURBED AREAS BEFORE PLACING AT LEAST ONE COURSE OF ASPHALT CONCRETE.

ONLY ITEM 614 WORK ZONE CENTER LINE, CLASS II HAS BEEN ITEMIZED IN THE PLAN. ALL OTHER WORK ZONE PAVEMENT MARKINGS NECESSARY SHALL BE INCLUDED IN THE LUMP SUM BID FOR MAINTAINING TRAFFIC.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT, IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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.

DROPOFFS IN WORK ZONES

DROPOFFS THAT DEVELOP DURING CONSTRUCTION OPERATIONS AND THAT ARE NOT OTHERWISE PROVIDED FOR IN THE PLANS SHALL BE TREATED AS SHOWN ON STANDARD DRAWING MT-101.90. WHERE THE PLANS DO NOT PROVIDE SPECIFIC ITEMS FOR LABOR, EQUIPMENT, OR MATERIALS TO IMPLEMENT THE DROP-OFF TREATMENTS SPECIFIED, THEY SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE MARKING SIGN

IN ACCORDANCE WITH CMS SECTION 614.04, THE QUANTITIES OF WORK ZONE MARKING SIGN HAVE BEEN CARRIED TO THE SUB-SUMMARIES TO BE USED AS DIRECTED BY THE ENGINEER.

W8-H12a (NO EDGE LINES): LOCATION 1 - 90 EACH R4-1 (DO NOT PASS): LOCATION 1- 92 EACH R4-2 (PASS WITH CARE): LOCATION 1 -70 EACH

ITEM 614, WORK ZONE MARKING SIGN

LOCATION 1 - 252 EACH

IN ADDITION, THE CONTRACTOR SHALL 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. "GROOVED PAVEMENT" SIGNS SHALL BE INCLUDED FOR PAYMENT WITH THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AS PER CMS SECTION 614.055.

BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT LOCATIONS SPECIFIED BELOW AND AT THE EXTRA AREAS WITH WEARING COURSE REMOVED.

BUTT JOINTS SHALL BE AS PER STANDARD CONSTRUCTION DRAWING BP-3.1 UNLESS OTHERWISE SHOWN IN THE PLANS.

MINIMUM LENGTH FOR ASPHALT WEDGE AT BUTT JOINTS SHALL BE 10'.

ROUTE	DESCRIPTION	S.L.M.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CU. YD.
U.S. 62	BEGIN WORK	0.00	1.1
U.S. 62	BRIDGE: KNO-62-1028	10.28	1.6
U.S. 62	BRIDGE: KNO-62-1428	14.28	2.0
U.S. 62	BRIDGE: KNO-62-1732	17.32	2.0
U.S. 62	BRIDGE: KNO-62-1780	17.80	2.5
U.S. 62	SUSPEND	18.78	1.0
U.S. 62	RESUME	18.87	1.0
U.S. 62	BRIDGE: KNO-62-2192	21.92	1.6
U.S. 62	END WORK	24.42	0.8
_			
U.S. 62	TOTAL		13.6
	U.S. 62	U.S. 62 BEGIN WORK U.S. 62 BRIDGE: KNO-62-1028 U.S. 62 BRIDGE: KNO-62-1428 U.S. 62 BRIDGE: KNO-62-1732 U.S. 62 BRIDGE: KNO-62-1780 U.S. 62 SUSPEND U.S. 62 RESUME U.S. 62 BRIDGE: KNO-62-2192 U.S. 62 END WORK	U.S. 62 BEGIN WORK 0.00 U.S. 62 BRIDGE: KNO-62-1028 10.28 U.S. 62 BRIDGE: KNO-62-1428 14.28 U.S. 62 BRIDGE: KNO-62-1732 17.32 U.S. 62 BRIDGE: KNO-62-1780 17.80 U.S. 62 SUSPEND 18.78 U.S. 62 RESUME 18.87 U.S. 62 BRIDGE: KNO-62-2192 21.92 U.S. 62 END WORK 24.42

THE GRINDING FOR BUTT JOINTS SHALL BE INCLUDED WITH ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE

ITEM 202, WALK REMOVED, AS PER PLAN

THIS WORK SHALL CONSIST OF REMOVING AND STORING BRICK SIDEWALK AT THE LOCATION SHOWN IN THE PLANS WHERE A CURB RAMP IS REQUIRED TO BE INSTALLED.

THE CONTRACTOR SHALL CAREFULLY REMOVE THE NECESSARY BRICKS TO THE DIMENSIONS SHOWN IN THE PLANS. THE BRICKS SHALL BECOME THE PROPERTY OF THE VILLAGE OF DANVILLE. THE CONTRACTOR SHALL CONTACT ROBERT SHIPLE, VILLAGE ADMINSTRATOR, AT (740)-599-6399 TO ARRANGE PICK UP BY THE VILLAGE FORCES.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED ABOVE, INCLUDING CUTTING EXISTING BRICKS TO FIT AROUND THE NEW CURB RAMP, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202, WALK REMOVED, AS PER PLAN.

Z

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGNS. AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE. WHEN NO LONGER NEEDED. TWO CHANGEABLE MESSAGE SIGNS, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGNS SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU. THEN LICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL. IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL. AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED. DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS. TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGNS. AS PER PLAN (cont'd)

DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL

THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS. EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

A TOTAL OF 2 PCMS SHALL BE REQUIRED FOR THIS PROJECT.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO SUB-SUMMARY:

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN LOCATION 1 - 6 SIGN MONTH

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR **ASSISTANCE**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH ANOFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

 DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENT OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

 FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS. THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE, (CONT'D)

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT. IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

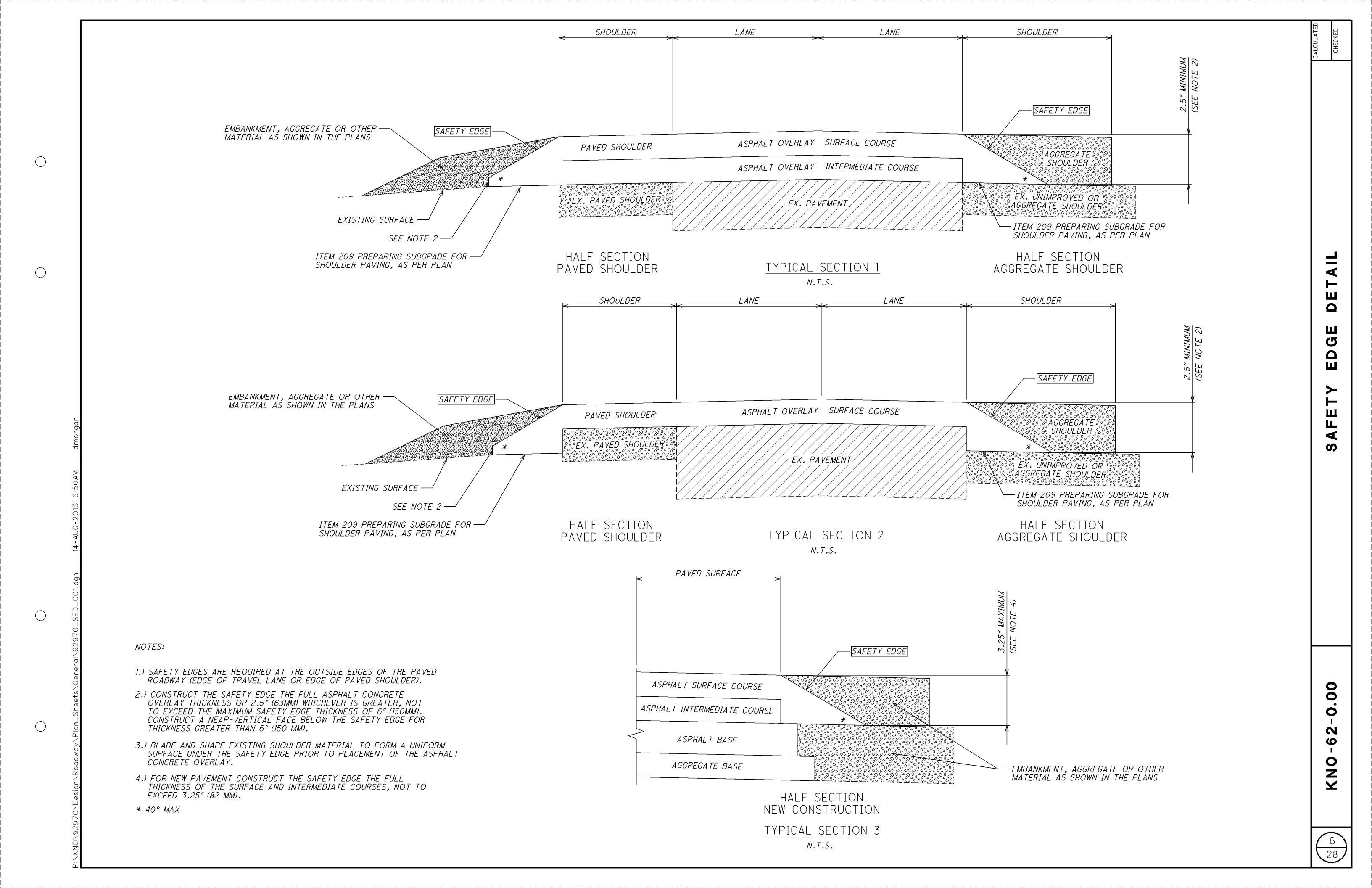
THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

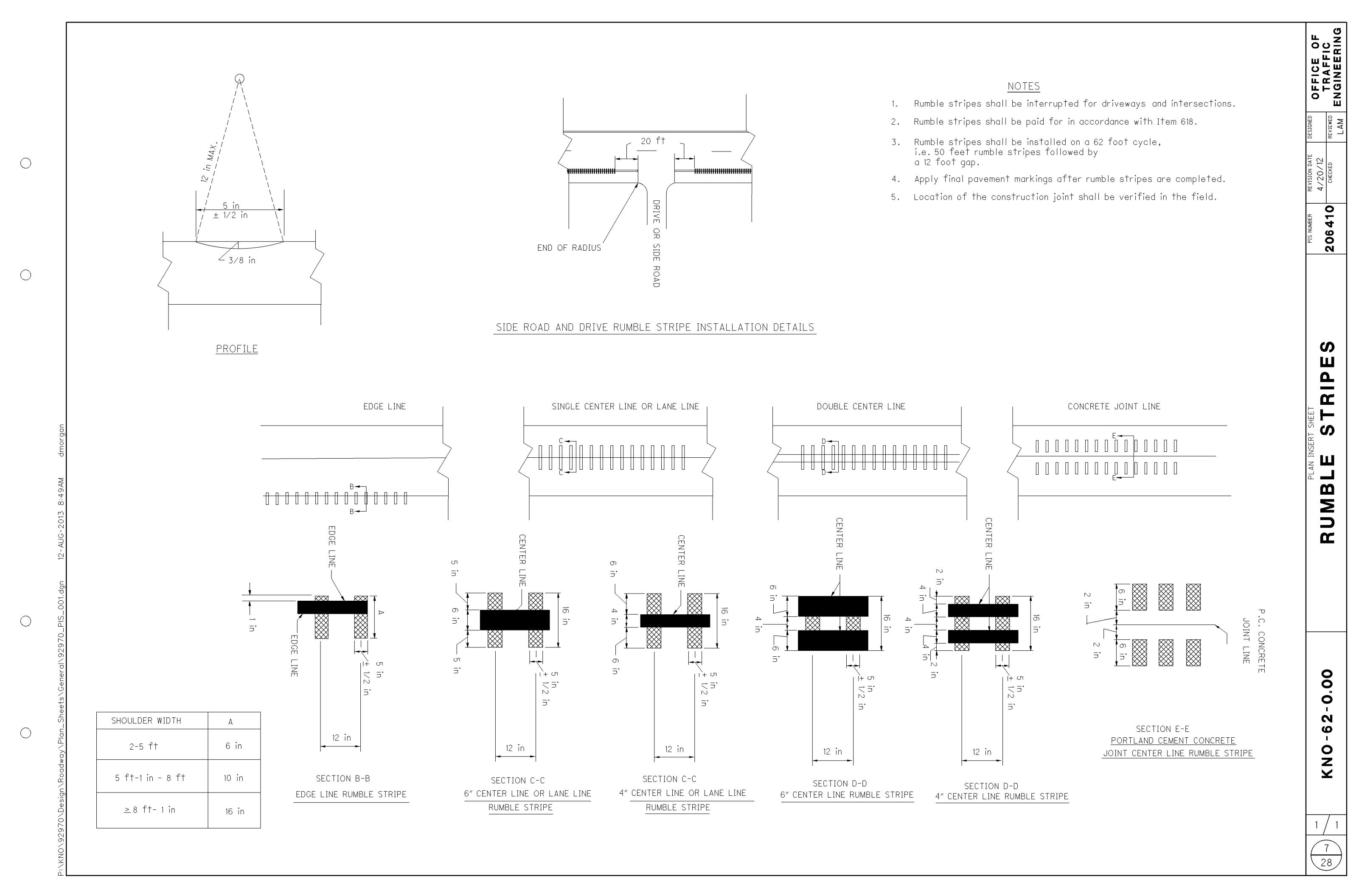
ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED. WITH THE BID UNIT PRICE FOR ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE SUB-SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR **ASSISTANCE** LOCATION 1 - 120 HOURS





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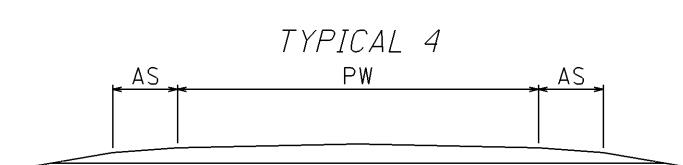
PW = PAVEMENT WIDTH PS = PAVED SHOULDER AS = AGGREGATE SHOULDER

TYPICAL 2 PS _AS PW

TYPICAL 3 PW

TYPICAL 1

LAS PS



NOTE: EDGE LINE RUMBLE STRIPES SHALL BE DISCONTINUED 650 FEET IN ADVANCE OF VILLAGE OR CITY CORP. LIMITS. QUANTITIES HAVE BEEN ADJUSTED TO REFLECT THIS REQUIREMENT.

												SHOL	LDER DAT	4										
											209		254		40	7		4/	18 ASPHAL	T CONCF	RETE		617	618
L O C A T I O N	C O U N T Y	R O U T E	BEGIN LOG POINT SLM	END LOG POINT SLM	LEN	IGTH	T Y P - C A L		OSED H (FT.)	SHOULDER AREA	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	DEPTH OF PAVEMENT PLANING	PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT, TRACKLESS TACK, @ 0.075 GAL./S.Y.	TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE	TACK COAT @ 0.075 GAL./S.Y.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y.	T H C K Z E Ø Ø	INTERMEDIATE COURSE, TYPE 1, PG 64-22	TH CKNESS	SURFACE COURSE, TYPE 1, PG 70-22M	THICKNESS	SOMPACTED AGGREGATE, AS PER PLAN (2' WIDTH)	EDGE LINE, RUMBLE STRIPES (ASPHALT CONCRETE)
					MILES	LIN. FT.		Α	В	SQ. YD.	MILE	INCHES	SQ. YD.	GAL.	GAL.	GAL.	GAL.	INCHES	CU. YD.	INCHES	CU. YD.	INCHES	CU. YD.	MILE
	KNO	U.S. 62	0.00	3.99	3.99	21067.2	1	4	4	18,726.4	7.98	1.25	18,726.4			1,404.5	936.4	1.00	520.2	1.25	650.3	3.00	780.3	7.73
1	KNO	U.S. 62	3.99	4.28	0.29	1531.2	1	1	1	340.3	0.58	2.25	340.3			25.6	17.1	1.00	9.5	1.25	11.9	3.00	56.8	
1	KNO	U.S. 62	4.28	4.53	0.25	1320.0	1	2	2	586.7	0.50	2.25	586.7			44.1	29.4	1.00	16.3	1.25	20.4	3.00	48.9	
1	KNO	U.S. 62	4.53	7.00	2.47	715.0	1	2	2	317.8	4.94	1.25	317.8			23.9	15.9	1.00	8.9	1.25	11.1	3.00	26.5	
1	KNO	U.S. 62	7.00	7.06	0.06	316.8	1	7	7	492.8	0.12	1.25	492.8			37.0	24.7	1.00	13.7	1.25	17.2	3.00	11.8	
1	KNO	U.S. 62	7.06	7.98	0.92	4857.6	1	2	2	2,158.9	1.84	1.25	2,158.9			162.0	108.0	1.00	60.0	1.25	75.0	3.00	180.0	
1	KNO	U.S. 62	7.98	8.04	0.06	316.8	1	6	6	422.4	0.12	1.25	422.4			31.7	21.2	1.00	11.8	1.25	14.7	3.00	11.8	
1 1	KNO	U.S. 62	8.04	10.20	2.16	11404.8	1	2	2	5,068.8	4.32	1.25	5,068.8			380.2	253.5	1.00	140.8	1.25	176.0	3.00	422.4	
1	KNO	U.S. 62	10.20	10.35	0.15	792.0	1	6	6	1,056.0	0.30	1.25	1,056.0			79.2	52.8	1.00	29.4	1.25	36.7	3.00	29.4	
1	KNO	U.S. 62	10.35	11.41	1.06	5596.8	1	2	2	2,487.5	2.12	1.25	2,487.5			186.6	124.4	1.00	69.1	1.25	86.4	3.00	207.3	
1	KNO	U.S. 62	11.41	14.13	2.72	14361.6	1	2	2	6,382.9	5.44	1.25	6,382.9			478.8	319.2	1.00	177.4	1.25	221.7	3.00	532.0	
1	KNO	U.S. 62	14.13	14.35	0.22	1161.6	1	2	2	516.3	0.44	1.25	516.3			38.8	25.9	1.00	14.4	1.25	18.0	3.00	43.1	0.44
1	KNO	U.S. 62	14.35	14.50	0.15	792.0	1	2	2	352.0	0.30	2.25	352.0			26.4	17.6	1.00	9.8	1.25	12.3	3.00	29.4	0.30
1	KNO	U.S. 62	14.50	17.32	2.82	14889.6	1	2	2	6,617.6	5.64	1.25	6,617.6			496.4	330.9	1.00	183.9	1.25	229.8	3.00	551.5	5.64
1	KNO	U.S. 62	17.32	17.56	0.24	1267.2	1	2	2	563.2	0.48	1.25	563.2	42.3	28.2			1.00	15.7	1.25	19.6	3.00	47.0	
	KNO	U.S. 62	17.56	17.62	0.06	316.8	1	4	2	211.2	0.12	2.25	211.2	15.9	10.6			1.00	5.9	1.25	7.4	3.00	11.8	4
	KNO	U.S. 62	17.62	17.68	0.06	316.8	1	6	12	633.6	0.12	2.25	633.6	47.6	31.7			1.00	17.6	1.25	22.0	3.00	11.8	
	KNO	U.S. 62	18.29	18.32	0.03	158.4	3	2		35.2	0.06	2.25	35.2	2.7	1.8			1.00	1.0	1.25	1.3	3.00	5.9	+
. 1	KNO	U.S. 62	18.32	18.78	0.46	2428.8	4				0.92	<u></u>			<u> </u> 					1		3.00	90.0	
								T	I	T S		RESUME. T	AT NEW BRID	GE PAVEMEN	 T			 		1	<u> </u>			+
	KNO	U.S. 62	18.87	19.06	0.19	1003.2	4				0.38											3.00	37.2	+
·[1	KNO	U.S. 62	19.06	19.22	0.16	844.8	4				0.32							-		<u> </u>		3.00	31.3	+
	KNO	U.S. 62	19.22	22.65	3.43	18110.4	4				6.86											3.00	670.8	+
	BF	RIDGE DEDU	ICTIONS							(230.5)	(0.36)		(230.5)			(17.3)	(11.6)	1.00	(6.5)	1.25	(8.1)	3.00	(40.7)	
LOCA	TON 1 TOTA	ALS (CARRI	ED TO SUB	-SUMMARY)							43.54		46,739.1	108.5	72.3	3,397.9	2,265.4		1,298.9		1,623.7		3,796.3	14.11

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						EA I KA AN	EAS	1	202		<u> </u>		448 ASPHALT	CONCRE	- TF		B -	_
L O C A T O N	C O U N T Y	R O U T E	SIDE	DESCRIPTION		INTERSECTION ETAIL DIMENS		AREA	WEARING COURSE REMOVED	TACK COAT @ 0.075 GAL./S.Y.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y.	T H C K % E % %	INTERMEDIATE COURSE, TYPE 1, PG 64-22	THICKNESS	SURFACE COURSE, TYPE 1, PG 64-22	DEGIT AND LETTER OF THE PARTY O	1) (3) (3) (4) (5) (5) (5) (6) (7)	
					FT.	FT.	FT.	SQ. YD.	SQ. YD.	GAL.	GAL.	IN.	CU. YD.	IN.	CU, YD.		BA	
					* * * * * * * * * * * * * * * * * * * *	7	7 .7	54.72.				***	551127	1771	001721			_
1	KNO	U.S. 62	RT ' T	MORGAN CENTER RD (1)	26	85		122.8	122.8	9.3	6.2	1.00	3.5	1.25	4.3		US 62	_
1	KNO KNO	U.S. 62 U.S. 62	LT LT	MORGAN CENTER RD (1) CLUTTER RD	28 50	103 24	92	160,3 322,3	160.3 322.3	12.1 24.2	8.1 16.2	1.00 1.00	4.5 9.0	1.25 1.25	5.6 11.2			-
1	KNO	U.S. 62	RT	CLUTTER RD	45	21	91	280.0	280.0	21.0	14.0	1.00	9.0 7.8	1.25	9.8			
1	KNO	U.S. 62	LT	WHITE OAK RD	35	14	48	120.6	120.6	9.1	6.1	1.00	3.4	1.25	4.2			
1	KNO	U.S. 62	LT	HOSS RD	53	22	77	291.5	291.5	21.9	14.6	1.00	8.1	1.25	10.2			_
1	KNO	U.S. 62	LT \-	HOSS RD	27	23	64	130.5	130.5	9.8	6.6	1.00	3.7	1.25	4.6		US 62	
3	KNO KNO	U.S. 62 U.S. 62	LT RT	ARRINGTON RD WEST ST	65 20	18 15	79 33	350.3 53.4	350.3 53.4	26.3 4.1	17.6	1.00 1.00	9.8 1.5	1.25 1.25	12.2			_
1	KNO	U.S. 62	LT	WESTST	17	17	44	57.7	57.7	4.4	2.9	1.00	1.7	1.25	2.1		BXASL	
1	KNO	U.S. 62	RT	ALLEY	15	10	20	25.0	25.0	1.9	1.3	1.00	0.7	1.25	0.9	$\left(3\right)$	CAMOR	
1	KNO	U.S. 62	LT	ALLEY	15	10	20	25.0	25.0	1.9	1.3	1.00	0.7	1.25	0.9		\ \ \	
1	KNO	U.S. 62	RT	SR 586	31	28	67	163.7	163.7	12.3	8.2	1.00	4.6	1.25	5.7		70	
1	KNO	U.S. 62	RT	SR 541	31	20	67	149.9	149.9	11.3	7.5	1.00	4.2	1.25	5.3			
3	KNO KNO	U.S. 62 U.S. 62	LT RT	EXTRA PAVEMENT EXTRA PAVEMENT	14		158 136	245.8 211.6	245.8 211.6	18.5 15.9	12.3 10.6	1.00 1.00	6.9 5.9	1.25 1.25	8.6 7.4			
1	KNO	U.S. 62	RT	PLEASANTST	28	14	36	77.8	77.8	5.9	3.9	1.00	2.2	1.25	2.8			
1	KNO	U.S. 62	LT	PLEASANT ST	22	14	28	51.4	51.4	3.9	2.6	1.00	1.5	1.25	1.8			
1	KNO	U.S. 62	LT	ALLEY	10	10	20	16.7	16.7	1.3	0.9	1.00	0.5	1.25	0.6			
	KNO	U.S. 62	LT	SR 586	31	24	54	134.4	134.4	10.1	6.8	1.00	3.8	1.25	4.7			
	KNO	U.S. 62	RT	MECHANIC ST	22	10	29	47.7	47.7	3.6	2.4	1.00	1.4	1.25	1.7		F 29 N	
:	KNO KNO	U.S. 62	RT	NORTH ST GROVE CHURCH RD (2)	21 43	12 21	28	46.7 50.2	46.7 50.2	3.6	2.4	1.00 1.00	1.3 1.4	1.25 1.25	1.7	<u>~</u>	US J	
	KNO	U.S. 62 U.S. 62	LT RT	DEAL RD	25	17	49	91.7	91.7	3.8 6.9	2.6 4.6	1.00	2.6	1.25	3.2	010		
1	KNO	U.S. 62	LT	DEAL RD	43	17	58	179.2	179.2	13.5	9.0	1.00	5.0	1.25	6.3	Z		
	KNO	U.S. 62	LT	SYCAMORE RD	29	28	44	116.0	116.0	8.7	5.8	1.00	3.3	1.25	4.1	N O		
	KNO	U.S. 62	LT	SYCAMORE RD (3)	30	79		263.4	263.4	19.8	13.2	1.00	7.4	1.25	9.2	9		
	KNO	U.S. 62	RT	SYCAMORE RD	58	20	85 	338.4	338.4	25.4	17.0	1.00	9.4	1.25	11.8	S 3	ZING A V A	
	KNO	U.S. 62	RT	HOPEWELL RD	32	23	72	168.9	168.9	12.7	8.5	1.00	4.7	1.25	5.9	\supset		
<u> </u>	KNO KNO	U.S. 62 U.S. 62	LT RT	HOPEWELL RD DENNIS CHURCH RD	29 33	18	46 51	103.2 126.5	103.2 126.5	7.8 9.5	5.2 6.4	1.00 1.00	2.9 3.6	1.25 1.25	3.6 4.4			
, 	KNO	U.S. 62	RT	BILLMAN RD	32	18	61	140.5	140.5	10.6	7.1	1.00	4.0	1.25	4.9			
1_	KNO	U.S. 62	LT	CHADWICK RD	26	16	44	86.7	86.7	6.6	4.4	1.00	2.5	1.25	3.1	\bigvee		
	KNO	U.S. 62	RT	SR 229	125	18	150	1,166.7	1,166.7	87.6	58.4	1.00	32.5	1.25	40.6			
<u> </u>	KNO	U.S. 62	LT	SR 229	75	22	150	716.7	716.7	53.8	35.9	1.00	20.0	1.25	24.9			
3	KNO	U.S. 62	RT I T	LEPLEYRD	21	21	62	96.9	96.9	7.3	4.9	1.00	2.7	1.25	3.4			
; <u> </u>	KNO KNO	U.S. 62 U.S. 62	LT LT	LEPLEYRD CAVES RD	24 32	17 20	46 65	84.0 151.2	84.0 151.2	6.3 11.4	7.6	1.00 1.00	2.4 4.2	1.25 1.25	3.0 5.3			
1	KNO	U.S. 62	RT	HAZEL DELL RD	45	24	105	322.5	322.5	24.2	16.2	1.00	9.0	1.25	11.2			
1	KNO	U.S. 62	LT	MILLWOOD RD	36	25	93	236.0	236.0	17.7	11.8	1.00	6.6	1.25	8.2			
1	KNO	U.S. 62	CŁ	WIDENING ON US 62 @ US 36		SEE DETAIL RIG	1	996.0	996.0	74.7	49.8	1.00	27.7	1.25	34.6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	KNO	U.S. 62	RT	CAVALLORD	30	23	78	168.4	168.4	12.7	8.5	1.00	4.7	1.25	5.9			
1		U.S. 62	LT	BOESHARTRD	25	18	60	108.4	108.4	8.2	5.5	1.00	3.1	1.25	3.8			
1 1	KNO KNO	U.S. 62	RT	BOESHARTRD	25	17	39	77.8	77.8	5.9	3.9	1.00	2.2	1.25	2.8			

CALCULATED LME CHECKED DNM

AREA DATA

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NO-62-0.00



KNO

0.00

BRIDGE TREATMENT

LOCATION 1

DETAIL 2) KNO-62-1038: BUTT JOINT AT APPROACH SLABS DETAIL 2) KNO-62-1428: BUTT JOINT AT APPROACH SLABS

KNO-62-1445: OVERHEAD, MILL AND FILL ROADWAY 2.25"

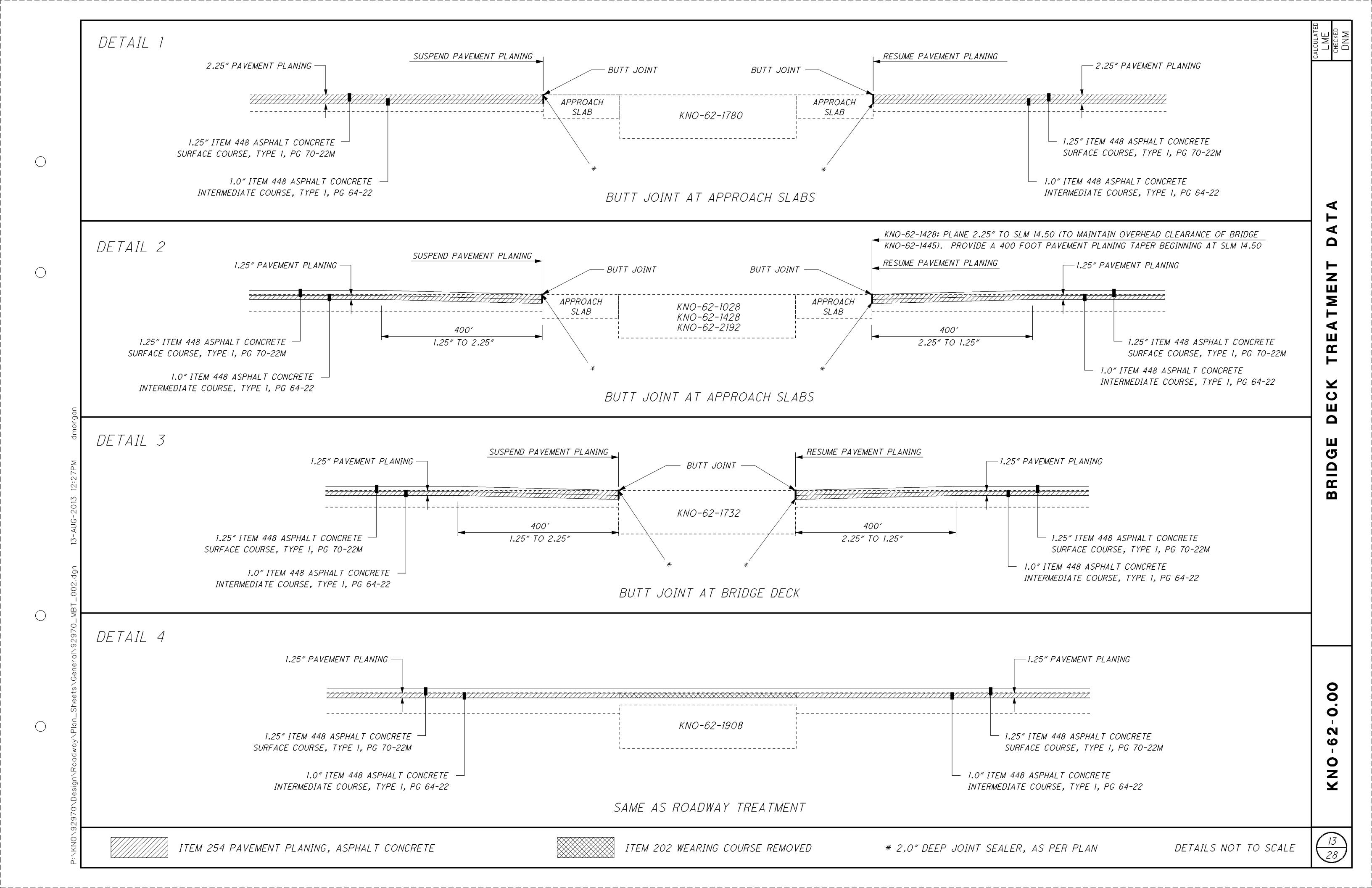
DETAIL 3 KNO-62-1732: BUTT JOINT AT BRIDGE DECK DETAIL 1) KNO-62-1780: BUTT JOINT AT APPROACH SLABS

KNO-62-1882: BUTT JOINT AT NEW PAVEMENT ON EITHER SIDE OF BRIDGE

DETAIL 4 KNO-62-1908: SAME AS ROADWAY DETAIL 2 KNO-62-2192: BUTT JOINT AT APPROACH SLABS

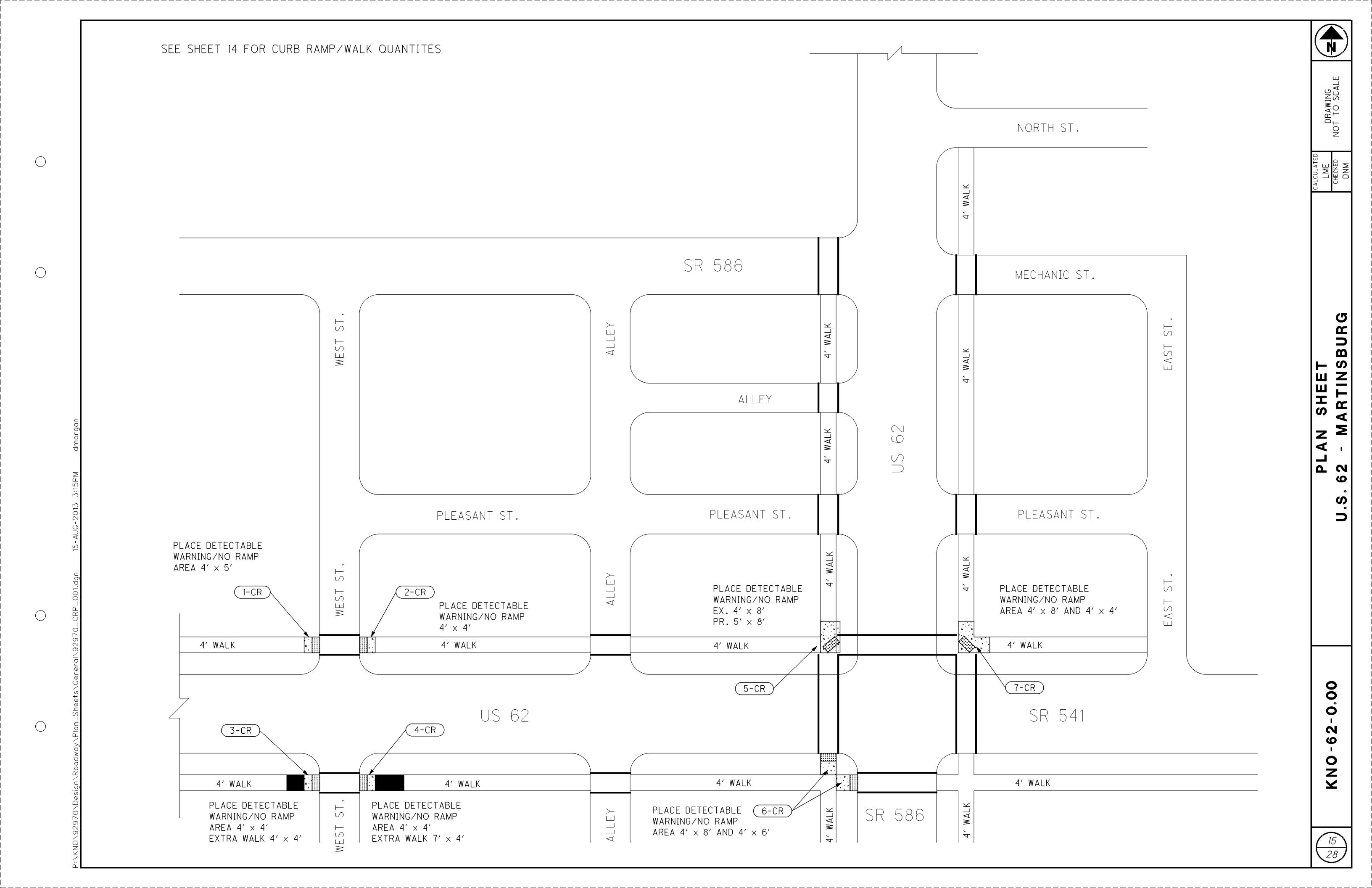
DEDUCTIONS = PAVEMENT/SHOULDER WIDTHS X (BRIDGE LENGTH + APPROACH SLABS)

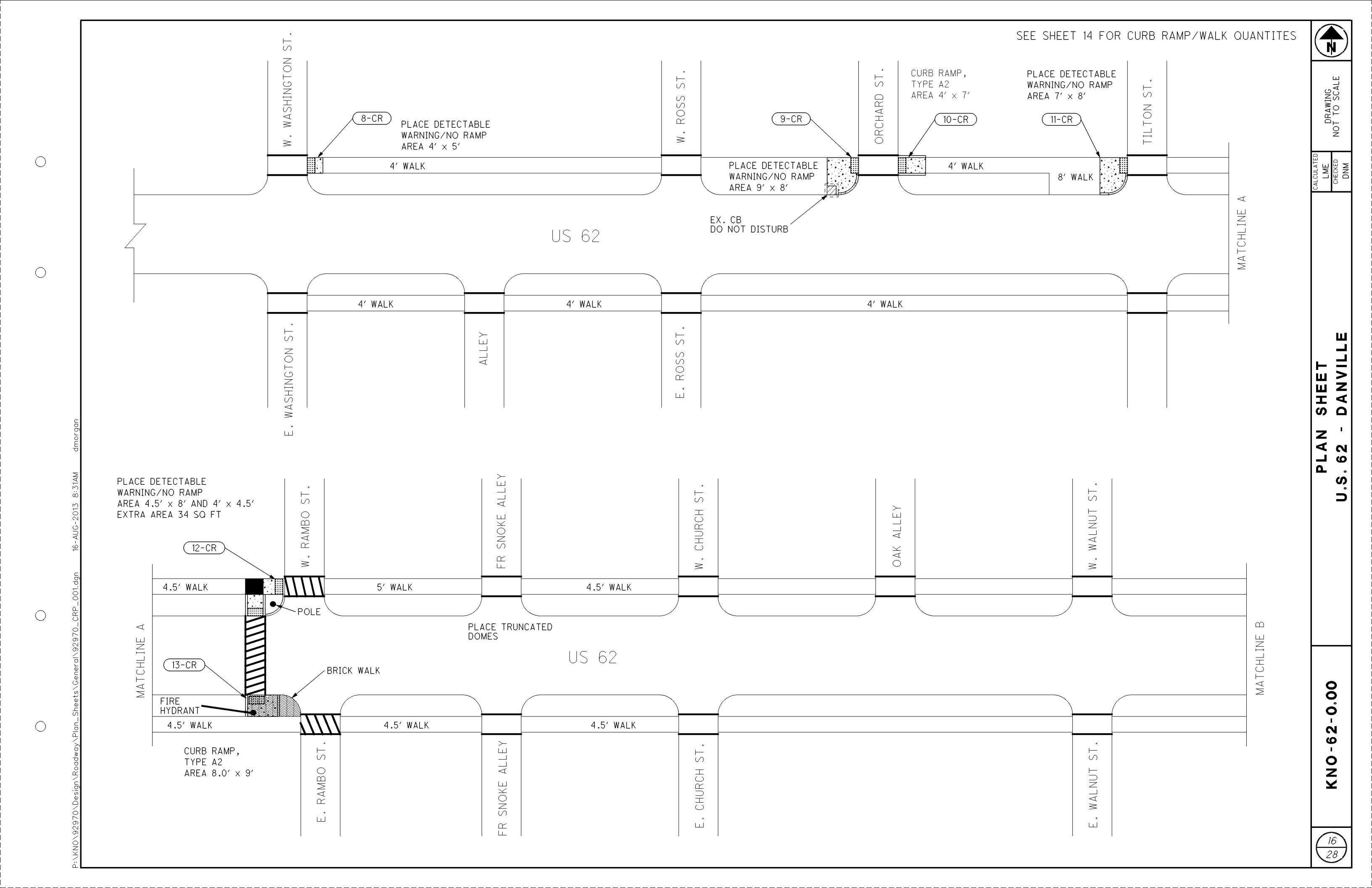
									BRIDGE	DATA									
							王		8)	SNS (6		254	4	.07		4	48		516
LOCATION	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)	WIDTH	AREA	APPROACH SLAB LENGTH	APPROACH SLAB WIDTH	APPROACH SLAB AREA (INCLUDES BOT APPROACH SLABS)	DETAILS (SHEET 13)	MAINLINE DEDUCTION (CARRIED TO SHEET 8	SHOULDER DEDUCTION (CARRIED TO SHEET 9	DEPTH OF PAVEMENT PLANING	PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT @ 0.075 GAL/SQ.YD.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL/SQ.YD.	THICKNESS	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	THICKNESS	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M	2" DEEP JOINT SEALER, AS PER PLAN
		LIN. FT.	LIN. FT.	SQ. YD.	LIN. FT.	LIN. FT.	SQ. YD.		SQ.YD.	SQ.YD.	INCHES	SQ.YD.	GALLON	GALLON	INCHES	CU.YD.	INCHES	CU.YD.	FEET
1	KNO-62-1028	50.0	40.0	222.3	20.0	40.0	177.8	2	200.0	40.0									48.0
1	KNO-62-1428	326.5	34.5	1,251.6	25.0	34.5	191.7	2	1,004.0	167.3									56.0
1	KNO-62-1445		(OVERHEA	D ON U.S.	36													
~	KNO-62-1732	30.0	30.0	100.0				3	80.0	13.3									56.0
1	KNO-62-1780	50.0	36.0	200.0	20.0	36.0	160.0	1	360.0										72.0
1	KNO-62-1882	79.5	40.0	353.4	15.0	40.0	133.3				BU	TT JOINT AT	CNEW PAVE	EMENT ON E	ITHER S	IDE OF BRID)GE		
1	KNO-62-1908	22.3	30.0	74.4				4	54.5	9.9	1.25	74.4	5.6	3.7	1.00	2.1	1.25	2.6	
4	KNO-62-2192	370.5	34.0	1,399.7	25.0	34.0	188.9	2	1,121.3										68.0
		928.8			210.0														
			GE DEDUC	CTIONS					2,819.8	230.5									
	LOCATION	1 TOTALS	CARRIE	D TO SUB	 -SUMMAF	<u> </u> RY)						74.4	5.6	3.7		2.1		2.6	300.0

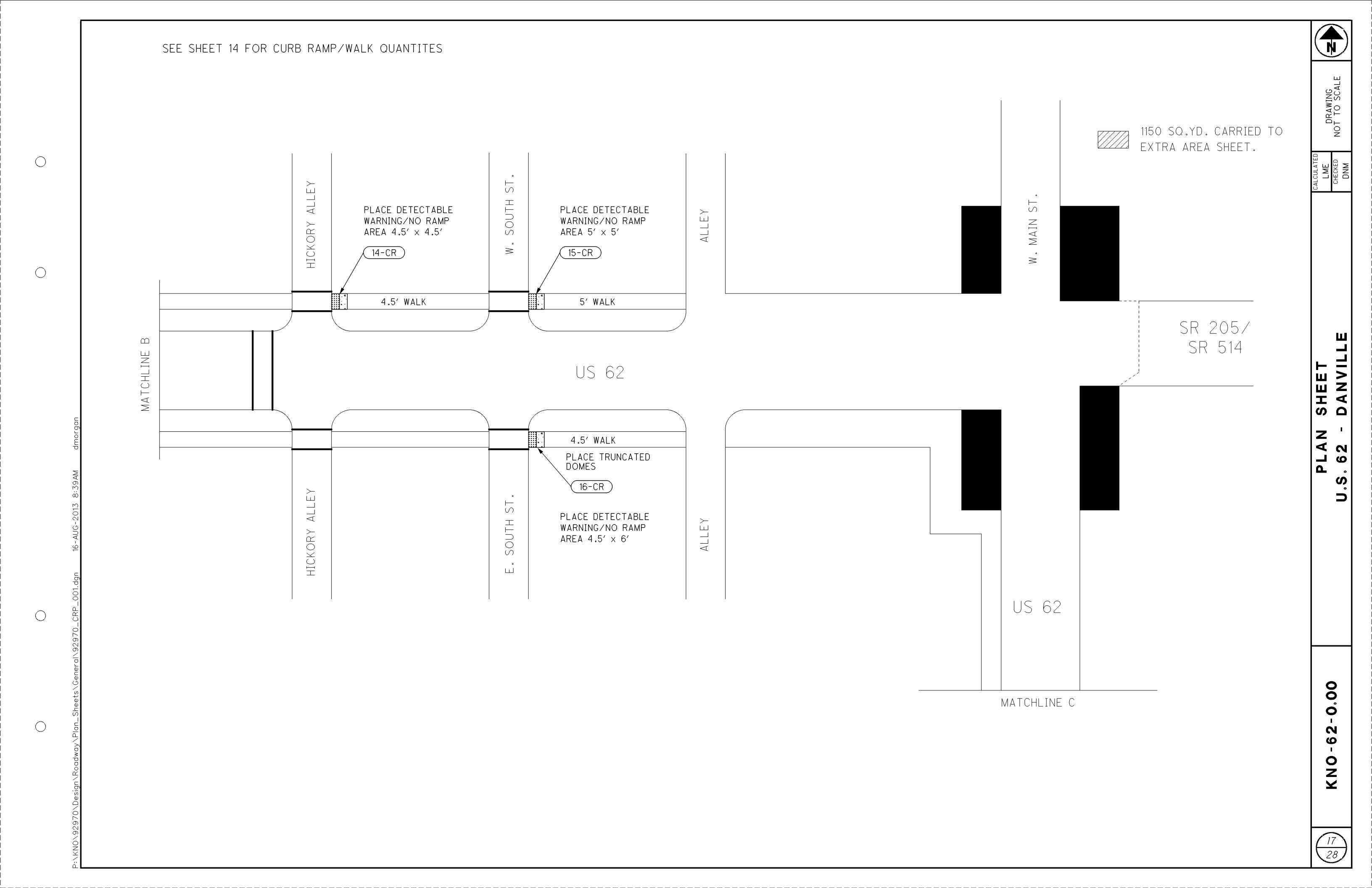


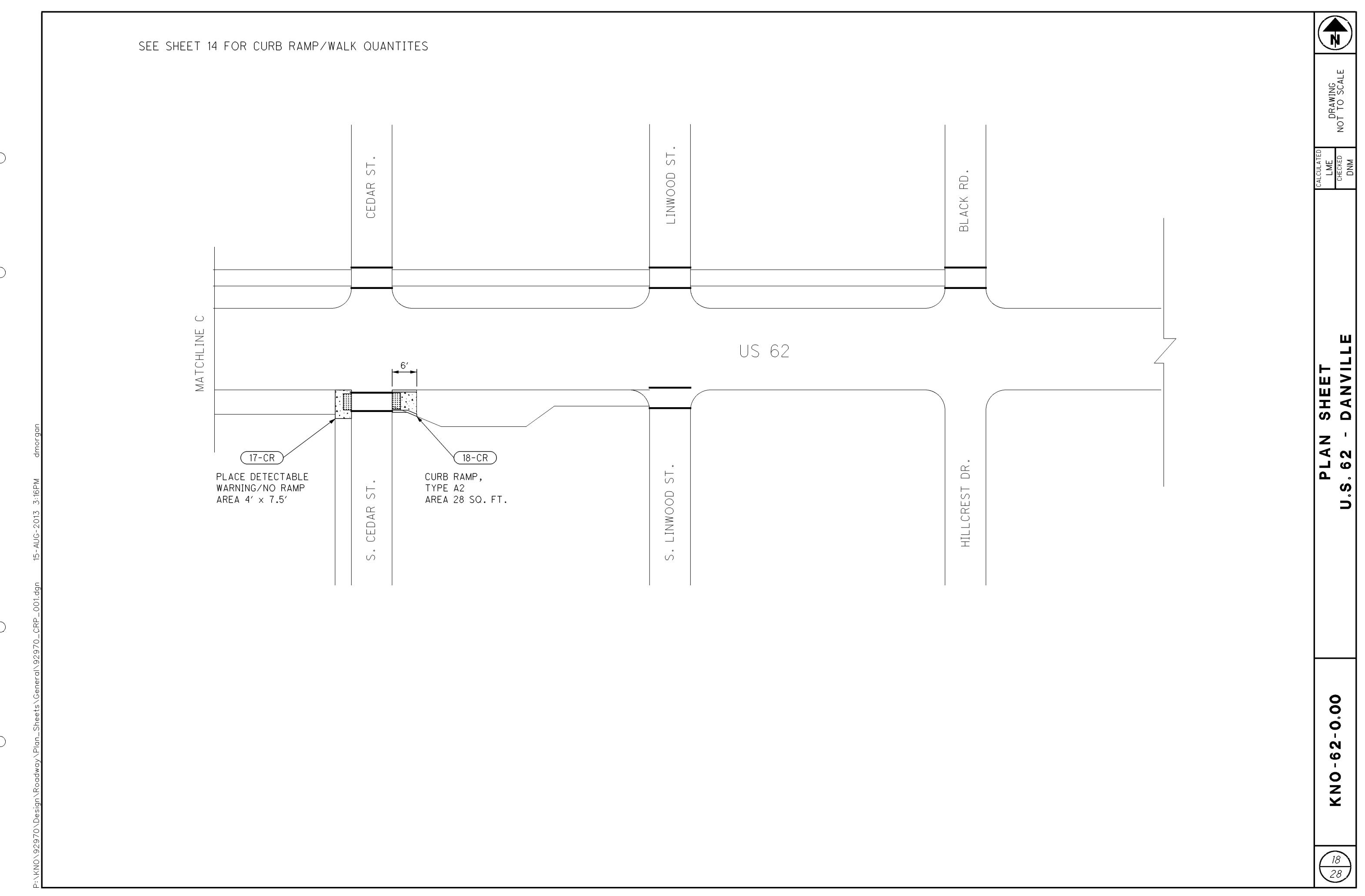
	14	1
<u> </u>	28	J

	CURB RAMP CALCULATIONS 202 608 690 SPECIAL-MISC.: 609														
					202		66	08		690 SPEC	CIA L-MISC.:	609			
REFERENCE NO.	SHEET NO.	LOCATION	SIDE	WALK REMOVED	WALK REMOVED, AS PER PLAN	CURB REMOVED	4" CONCRETE WALK, (CURB RAMP AREA)	4" CONCRETE WALK, (EXTRA WALK AREA)	DETECTABLE WARNING	*	CURB RAMPS,	CURB, TYPE 6	COMMENTS		
											TYPE A 2				
			CL/LT/RT.	SQ. FT.	SQ. FT.	FT.	SQ.FT.	SQ. FT.	SQ. FT.		EACH	FT.			
		U.S. 62 -MARTINSBURG													
1-CR	14	WEST ST	LT	20			12		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
2-CR	14	WEST ST	LT	16			8		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
3-CR	14	WEST ST	RT	32			8	16	8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
4-CR	14	WEST ST	RT	44			8	28	8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
5-CR	14	BEFORE INTERSECTION S.R. 586/541	LT	32			32		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
6-CR	14	BEFORE INTERSECTION S.R. 586/541	RT	32			24		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
	14	BEFORE INTERSECTION S.R. 586/541	RT	24			16		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
7-CR	14	AFTER INTERSECTION S.R. 541	RT	64			8		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
		U.S. 62 -DANVILLE													
8-CR	15	W. WASHINGTON ST	LT	20			12		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
9-CR	15	ORCHARD ST.	LT	72		7	48	16	8			13	ADD DETECTABLE WARNING, NO RAMP REQUIRED		
10-CR	15	ORCHARD ST.	LT	28			28				1	18	RAMP INCLUDES DETECTABLE WARNING		
11-CR	15	TILTON ST.	LT	56			48		8			5	ADD DETECTABLE WARNING, NO RAMP REQUIRED		
12-CR	15	W. RAMBO ST.	LT	90		10	28	34	8			20	ADD DETECTABLE WARNING, NO RAMP REQUIRED		
	15	W. RAMBO ST.	LT	30		10	10] 34	8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
13-CR	15	E. RAMBO ST.	RT		72	9	72				1	25	RAMP INCLUDES DETECTABLE WARNING		
14-CR	16	HICKORYALLEY	ı_T	21			13		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
15-CR	16	W. SOUTH ST.	LT	25			17		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
16-CR	16	E. SOUTH ST.	RT	27		6	19		8			6	ADD DETECTABLE WARNING, NO RAMP REQUIRED		
17-CR	16	S. CEDAR ST.	RT	30			22		8				ADD DETECTABLE WARNING, NO RAMP REQUIRED		
18-CR	16	S. CEDAR ST.	RT	28		12	28				1	16	RAMP INCLUDES DETECTABLE WARNING		
		SUB-TOTALS					461	94							
	TOTALS (CARRIED TO LOCATION 1 SUB-SUMMAR	y;	661	72	44		55	136		3	103			









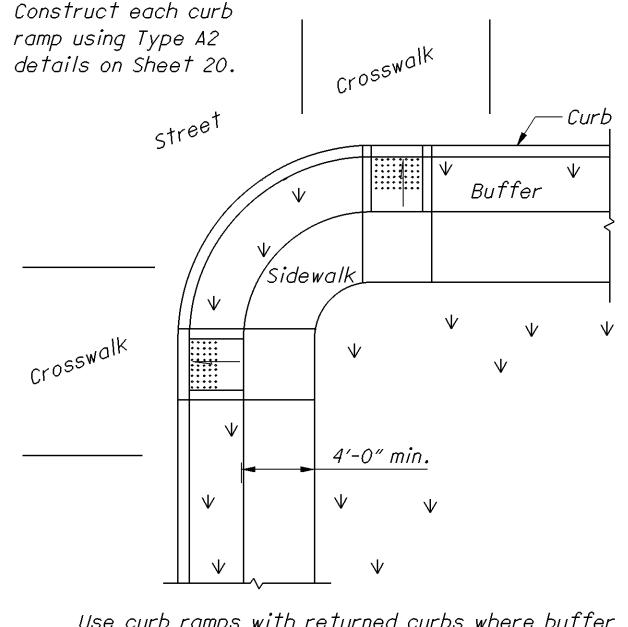




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Use curb ramps with flared sides

at locations with wide sidewalks.



Use curb ramps with returned curbs where buffer is wide enough to accommodate ramp slope.

Construct each curb Construct each curb ramp using Type B2 details on Sheet 20. street Curb-Two sets of Double Parallel <u>Radial</u> /Side-walk Curb Ramps are shown. ×5′-0″ min. crosswalk -Curb -Radial

Place on streets having wide turning radius and where sidewalks are narrow.

crosswalk . ramp using Type C1 details on Sheet 20. street Sidewalk 5′-0″ min Curb-4'-0" min. Curb ramp placement where streets have wide

turning radius, and sufficient sidewalks width.

PARALLEL CURB RAMPS

COMBINATION CURB RAMPS

NOTES

GENERAL: This drawing shows curb ramp types details and placement examples for curb ramp construction, including the installation of detectable warnings.

PERPENDICULAR CURB RAMPS

Curb ramp types are shown on Sheet 20 and include Perpendicular, Parallel, and Combined types as specified to be constructed in the locations shown in the project plans.

The contractor may adjust the placement of curb ramps if existing field conditions warrant with the approval of the Engineer.

Excavate, form, place, finish, and cure according to 608.03.A, 608.03.B, 608.03.C, and 608.03.E.

DETECTABLE WARNINGS: Install Detectable Warnings on each curb ramp with approved materials, as shown on Sheet 21. Install these proprietary products as per manufacturer's written instructions.

DRAINAGE: Contractor is to ensure the base of each constructed curb ramp allows for proper drainage, without exceeding allowable cross slope or ramp slopes. Vertical change in level exceeding $\frac{1}{8}$ " between the 1) pavement and gutter, and 2) gutter and ramp, are not allowed.

JOINTS: Provide expansion joints in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. Provide a $\frac{1}{2}$ " Item 705.03 expansion joint filler around the edge of ramps built in existing concrete walks. Lines shown on this drawing indicate the ramp edges and slope changes, and do not necessarily indicate joint lines.

METHOD OF MEASUREMENT: The Department will measure Curb Ramps by the number of each completed curb ramp. The Department will measure Detectable Warnings in existing curb ramps and at grade crossings by the number of square feet completed.

Concrete Walk and Curb, Item 608 and 609, will be measured through out the curb ramp area and paid for under their respective Items.

METHOD OF PAYMENT: New Curb Ramps constructed in new or existing Walk are paid for under Item 690 Special Misc.: Curb Ramp, Type __ (A1, A2, B1, B2, B3, C1, C2, or D) each, and includes the cost of any additional materials and installation (including detectable warnings), grading, forming and finishing.

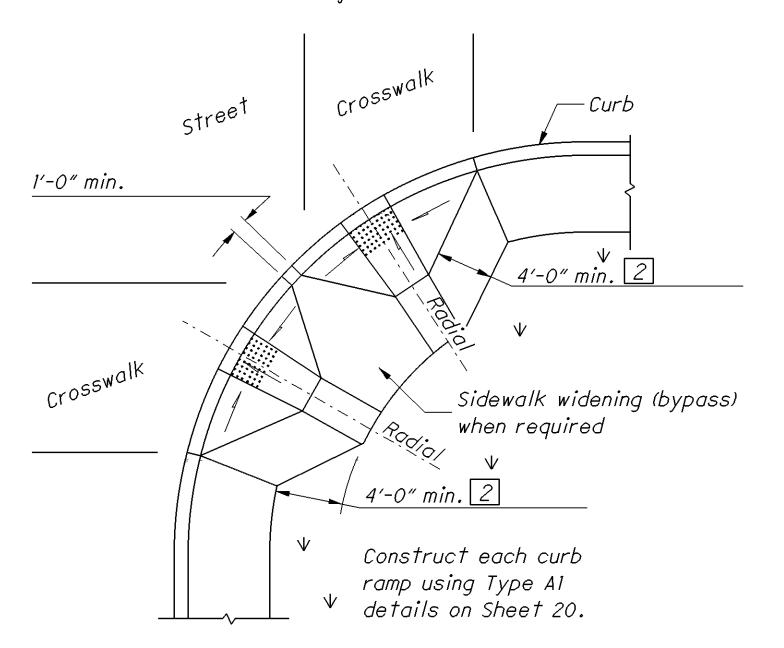
Detectable Warnings constructed in existing curb ramps or for at-grade crossing locations are paid for under Item 690-Special Misc.: Detectable Warning (Sq. Ft.) and is full compensation for excavation, backfill, base course material, reinforcing steel, expansion joint materials, and any incidentals required to complete the installation as specified. The work to cast the tiles in place will also require removal of existing pavement or sidewalk (Item 202) to the nearest joint, or if no joint exists, a minimum of 4 feet.

Removal of existing curb, pavement, walk (or existing curb ramps) are paid under Item 202.

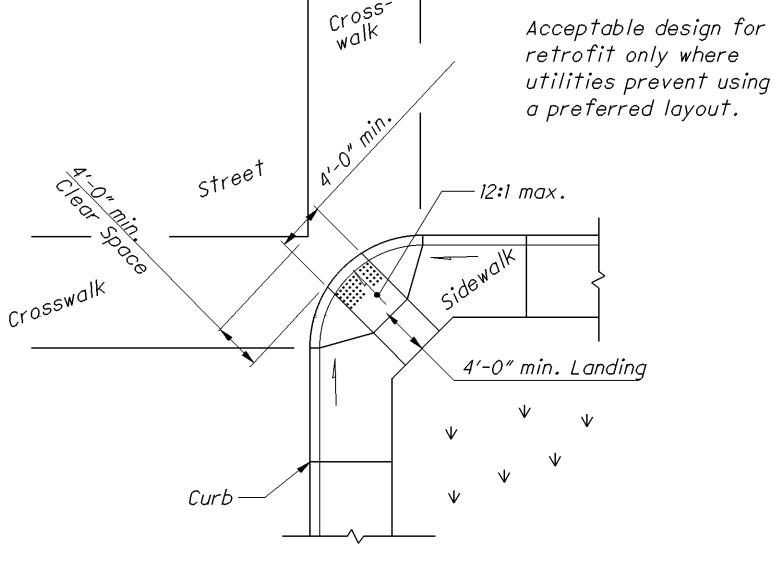
LEGEND

May be reduced to 3'-4" 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 tapered.

Acceptable design on corners with wide turning radius where user is able to maneuver within crosswalk limits so as not to encroach into adjacent traveled lanes.



PERPENDICULAR RAMPS



Use this design only for existing walks, and when site constraints prohibit other designs. The diagonal Type D ramp may be constructed as either a Perpendicular, Parallel or Combination curb ramp type. Avoid using where curb radii are less than 20'-0".

DIAGONAL RAMP (Type D)

ACCEPTABLE CONSTRUCTION PLACEMENT



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NOTES

The running slope of the ramp is preferred to be 12:1 or flatter. In existing sidewalks, where the maximum ramp slope is not feasible due to site constraints (e.g. utility poles or vaults, right-of-way limits) it may be reduced as follows:

- A) 10:1 for a max. rise of 6".
- B) 8:1 for a max. rise of 3",
- C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.

To prevent chasing the grade indefinately, the transition from exisiting sidewalk to the curb ramp area is not required to exceed 15 feet in length.

While ramps may be skewed to the crosswalk, the entire lower landing area must fall within the cross walk that the ramp serves and cannot be located in the traveled lane of opposing traffic.

The counter slope of the gutter or street at the foot of a curb ramp, landing, or blended transitions shall be 20:1 ot flatter.

The bottom edge of the ramp shall change planes perpendicular to the landing.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

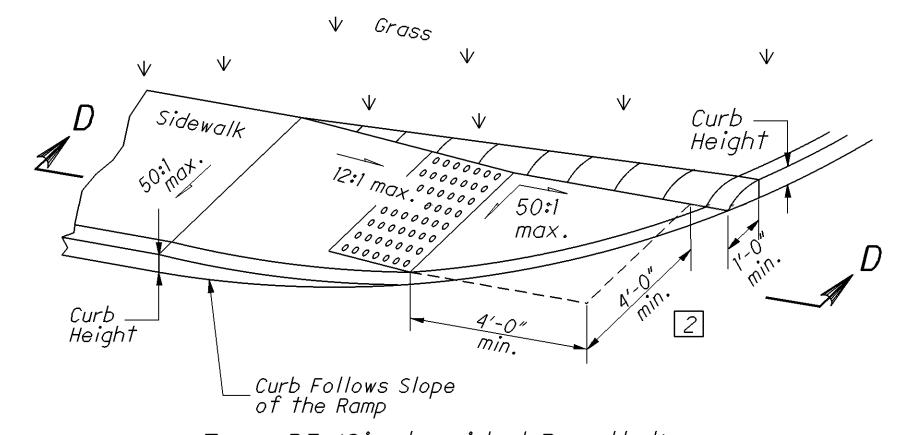
Ramp landings shall be 4' min. \times 4' min. with a 50:1 or flatter cross slope and running slope, unless otherwise shown.

LEGEND

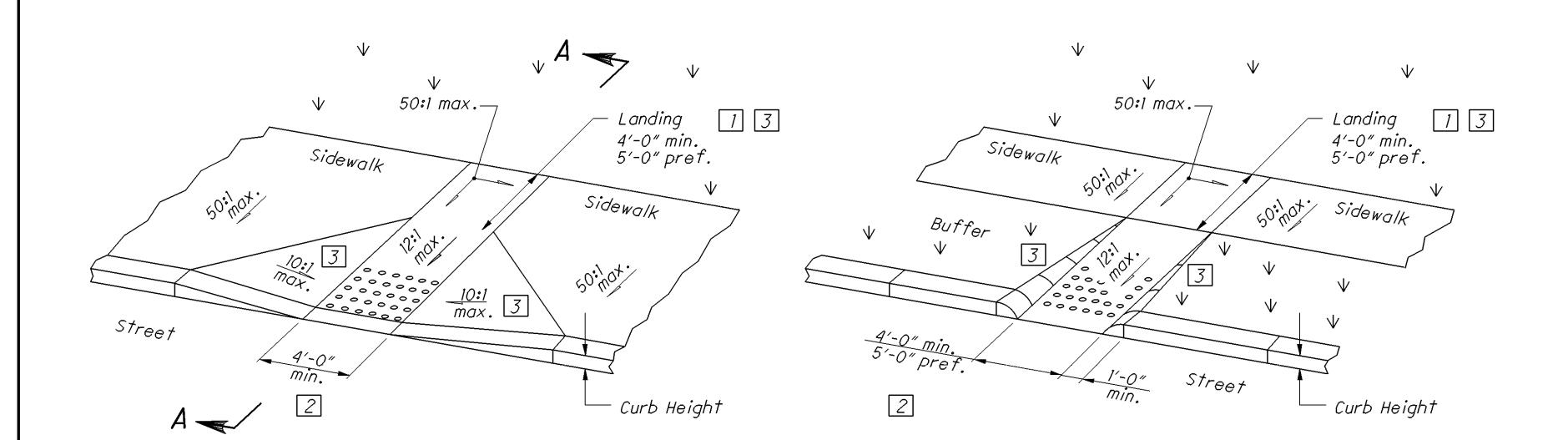
- Dimension may be reduced to 3'-0" in existing sidewalks if the landing is unconstrained along the back edge.
- May be reduced to 3'-4" in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width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

Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheelchair 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.

See Sheet 21 for Sections.



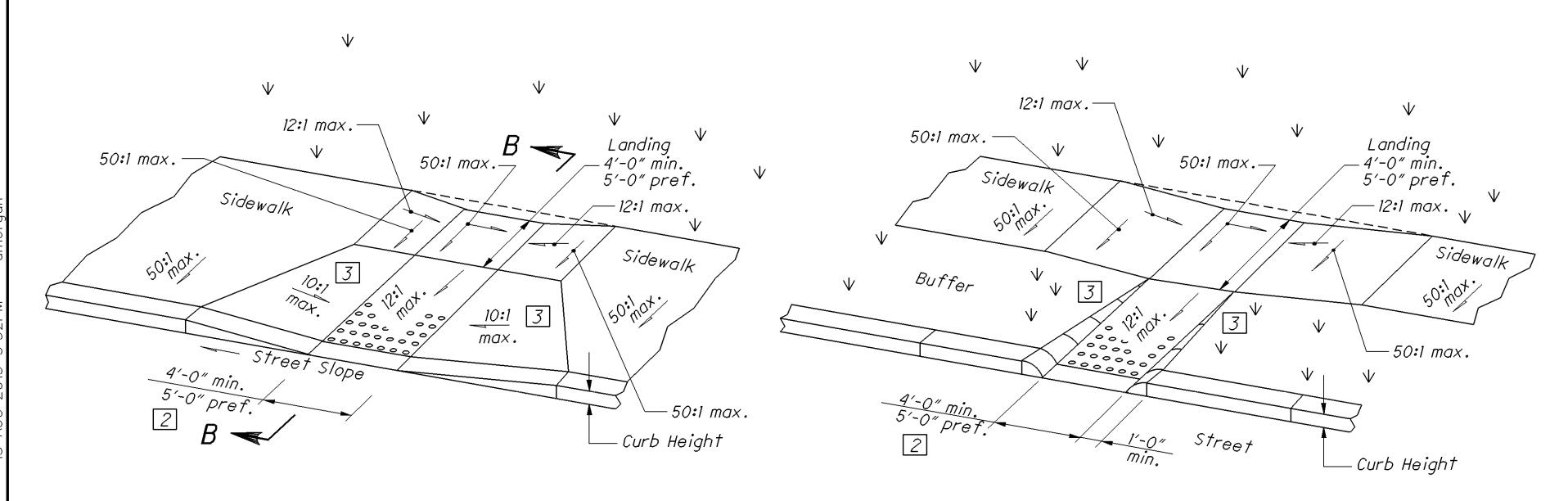
Type B3 (Single sided Parallel)



Type A1 (Perpendicular with flared sides)

Type A2 (Perpendicular with returned curb)

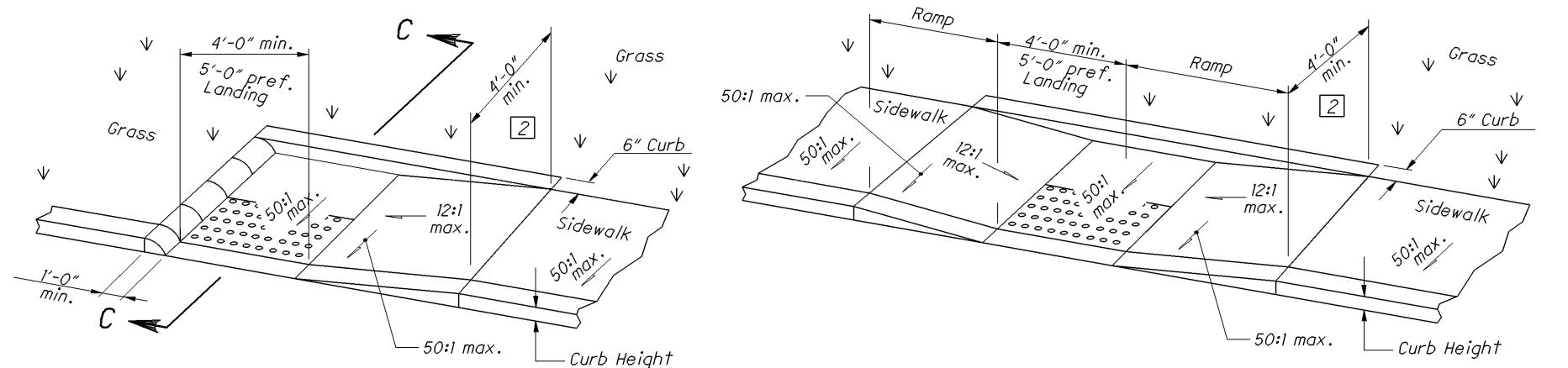
PERPENDICULAR CURB RAMP DETAILS



Type C1 (Combined with flared sides)

Type C2 (Combined with returned curb)

COMBINED CURB RAMP DETAILS

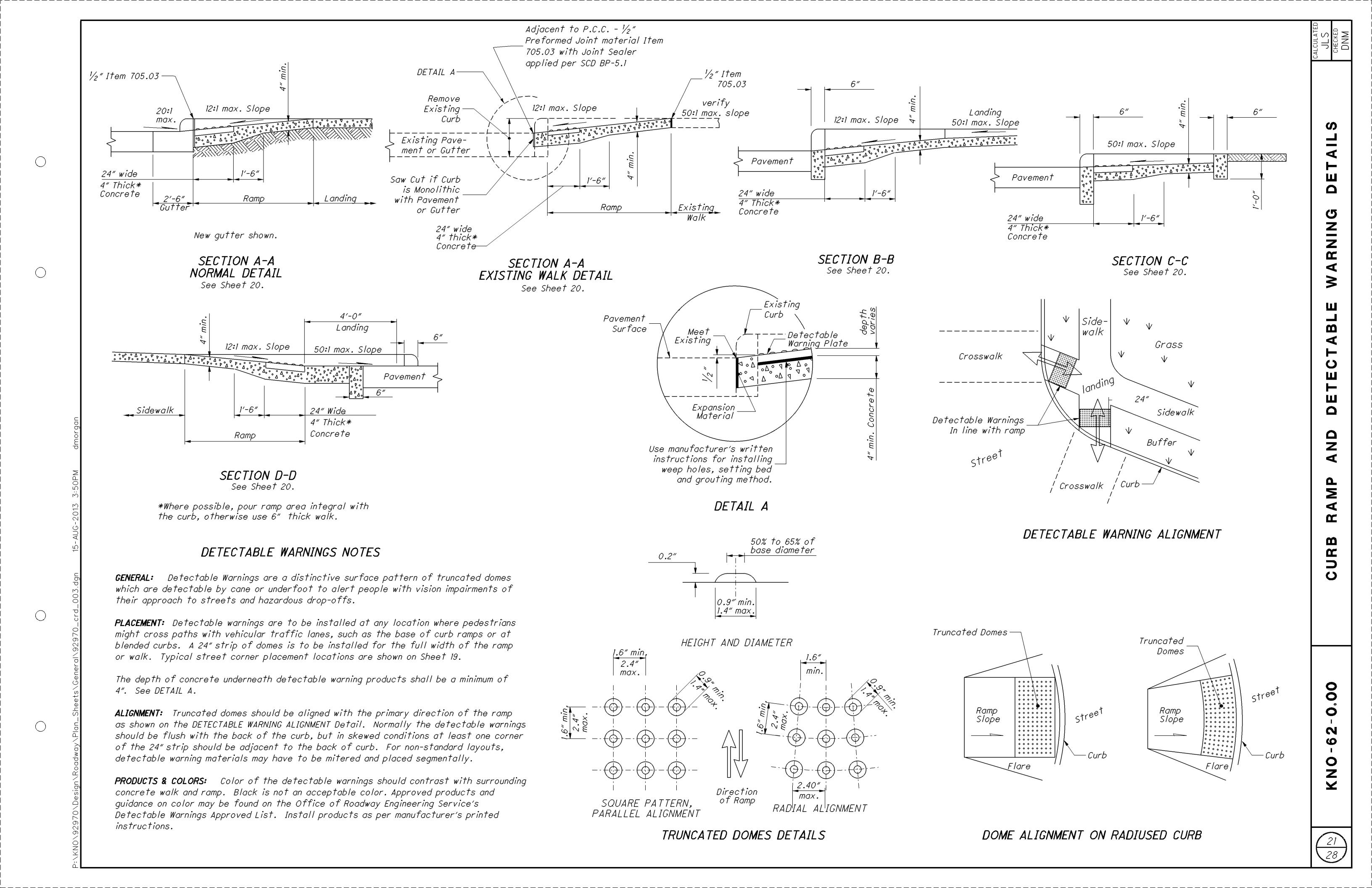


Type B1 (Single sided Parallel)

Type B2 (Double sided Parallel)

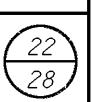
PARALLEL CURB RAMP DETAILS





						ITEM 64	8 EDGE LIN					
						INI	FORMATION O	NLY				
L O C A T	C O U N T	R O U T	S.I	S.L.M.		TOTAL WHITE ELLENGTH (MILES)		EDGE LINE QUANTITIES		E REMARKS		
0	Y	E		1		TOTAL	HIGHWAY		1			
N			FROM	то		MILES	MILES	RAMP MILES				
1	KNO	U.S. 62	0.00	17.63	17.63	35.26	35.26		35.26			
1	KNO	U.S. 62	18.27	22.65	4.38	4.38	4.38		4.38	24 FOOT OF PAVEMENT, STRIPE AS TWO 11' LANES		
	LOCATIO	N 1 TOTALS (C	ARRIED TO S	UB-SUMMARY)				39.64			

					ITEN	648 CEN	ITER LINE		
						INFORI	MATION ONLY		
LOCATI	C O U N T	R O U T	S.L.M.		TOTAL LENGTH (MILES)		NTER LINE ANTITIES	TOTAL CENTER LINE MILES	REMARKS
O N	Y	E	FROM	TO		TOTAL MILES	EQUIVALENT SOLID LINE		
1	KNO	U.S. 62	0.00	22.65	22.65	22.65	32.116	22.65	
	LOCATIO	N 1 TOTALS (C	ARRIED TO SU	JB-SUMMARY	<u> </u>			22.65	



MENT MARKING DATA (AUXILARY MARKING DATA) CHECKED DINN	NT MARKING DATA (AUXILARY MARKING DATA)
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KN0-62-0.00

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1	23	**
	28	

							ITEM 6	44 AUX	ILARY M	ARKING						
L O C A T	C O U N	R O U	DESCRIPTION	SIDE	ANSEVERSE/	(24")	TOP LINE (24")	OSSWALK LINE		RD ON EMENT		_ SYMBOL RKING	LANE A	RROWS	NNELIZING LINE	REMARKS
0	T Y	E			Tυ	RN	СНА									
N	-					YELLOW		-12	72"	96"	72"	96"	LT.	RT.		
					FT.	FT.	FT.	FT.	EACH	EACH	EACH	EACH	EACH	EACH	FEET	
1	KNO	U.S. 62	MORGAN CENTER RD	RT			8									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	MORGAN CENTER RD	LT			10									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	CLUTTER RD	LT			25									PLACE 23' FROM US 62 CL
1	KNO	U.S. 62	CLUTTER RD	RT			22									PLACE 21' FROM US 62 CL
1	KNO	U.S. 62	WHITE OAK RD	LT			12									PLACE 25' FROM US 62 CL
1	KNO	U.S. 62	HOSS RD	LT			20									PLACE 26' FROM US 62 CL
1	KNO	U.S. 62	HOSS RD	LT			20									PLACE 26' FROM US 62 CL
1	KNO	U.S. 62	ARRINGTON RD	LT			20									PLACE 27' FROM US 62 CL
1	KNO	U.S. 62	WEST ST	RT			7	30								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	WEST ST	LT			10	46								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ON US 62 AT SR 586/SR 541	CL			16	90								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	SR 586	RT			12	64								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	SR 541	RT			16	70								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ON US 62 AFTER SR 586/SR 541	CL			13	96								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	PLEASANT ST	RT			8	28								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	PLEASANT ST	LT			9	32								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ALLEY	LT				22								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	SR 586	17			14	68								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	MECHANIC ST	RT			6	24		1						PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	NORTH ST	RT			7									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	GROVE CHURCH RD	LT			21									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	DEAL RD	RT RT			10									PLACE 27' FROM US 62 CL
1	KNO	U.S. 62	DEAL RD	17			12									PLACE 38' FROM US 62 CL
1	KNO	U.S. 62	SYCAMORE RD	LT			17									PLACE AT EXISTING LOCATION
<u> </u>	KNO	U.S. 62	SYCAMORE RD	LT			12									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	SYCAMORE RD	RT			43									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62					26		1			+				PLACE AT EXISTING LOCATION
3	KNO	U.S. 62	HOPEWELL RD	RT			12									PLACE 21' FROM US 62 CL
3	KNO	U.S. 62	HOPEWELL RD	LT			12									PLACE 24' FROM US 62 CL
4	KNO		DENNIS CHURCH RD	RT			18		1	1		+				
*		U.S. 62	BILLMAN RD	RT												PLACE 25' FROM US 62 CL
3	KNO	U.S. 62	CHADWICK RD	LT			10									PLACE 25' FROM US 62 CL
1	KNO	U.S. 62	SR 229	RT		<u> </u>	20									PLACE 21' FROM US 62 CL
1	KNO	U.S. 62	SR 229	LT		1	21									PLACE 19' FROM US 62 CL
1	KNO	U.S. 62	LEPLEYRD	RT		1	13			-	-		<u> </u>			PLACE 23' FROM US 62 CL
1	KNO	U.S. 62	LEPLEYRD	LT		<u> </u>	15						<u> </u>			PLACE 21' FROM US 62 CL
1	KNO	U.S. 62	CAVES RD	LT			21									PLACE 24' FROM US 62 CL
1	KNO	U.S. 62	HAZEL DELL RD	RT		<u> </u>	22									PLACE 25' FROM US 62 CL
1	KNO	U.S. 62	MILLWOOD RD	LT		<u> </u>	20						<u> </u>			PLACE 29' FROM US 62 CL
1	KNO	U.S. 62	CAVALLORD	RT			23									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ON US 62 AT CONNECTOR RD	CL		1				1			<u> </u>	1	110	PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	BOESHART RD	LT			20									PLACE 22" FROM US 62 CL
1	KNO	U.S. 62	BOESHART RD	RT		_	14						_			PLACE 23' FROM US 62 CL
1	KNO	U.S. 62	FLAT RUN RD	RT			16									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	TOUGH ST	RT			12									PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	WASHINGTON ST	LT			10	48								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	WASHINGTON ST	RT			10	54								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ALLEY	RT			15	56								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	W.ROSS ST	LT		1	12	52								PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	E.ROSS ST	RT			17	76								PLACE AT EXISTING LOCATION
			—···					· · ·								
			OTALS (CARRIED TONEXT SHEET)			•	729	856	1	- 4	1	1	İ	1	110	

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LOCAT	C O U N T	R O U T	DESCRIPTION	SIDE	TRANSEVERSE/	(24")	STOP LINE (24")	ROSSWALK LINE	PAVE		SCHOOL MAR	SYMBOL KING		RROWS	ANNELIZINGLINE	IDICAP SYMBOL MARKING	PARKING LOT TALL MARKING	REMARKS
, O N	Ý	E						12" C	72"	ILY	705	oc ^u		RN	8" СН	HAN	g TS	
					FT.	YELLOW FT.	FT.	FT.	EACH	96" EACH	72" EACH	96" EACH	LT. EACH	RT. EACH	FEET	EACH	FEET	-
	LOCATION	N 1 TOTALS (C	ARRIED FROM PREVIOUS SHEET)		2 7 1		729	856		1				1	110			
1	KNO	U.S. 62	ORCHARD ST	LT			15	64										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	DRIVE/ALLEY	RT				42										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	DRIVE/ALLEY	RT				42										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	DRIVE/ALLEY	RT				44										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	DRIVE/ALLEY	RT				42										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	TILTON ST	LT			16	64										PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ON US 62 @ SLM 17.90	NB -				_			1							PLACE AT EXISTING LOCATION
1	KNO	U.S. 62	ON US 62 BEFORE RAMBO ST	CL 			16	144										INCLUDE DIAGONAL CROSSWALK LINES, 1' WIDE WITH 2' GAPS
1	KNO	U.S. 62	W. RAMBO ST	LT 			16	134										INCLUDE DIAGONAL CROSSWALK LINES, 1' WIDE WITH 2' GAPS
1	KNO	U.S. 62	E. RAMBOST	RT			12	100										INCLUDE DIAGONAL CROSSWALK LINES, 1' WIDE WITH 2' GAPS
1	KNO	U.S. 62	ON US 62 AFTER RAMBO ST	CL (-		 	16	60	 					 				PLACE AT EXISTING LOCATION
}	KNO	U.S. 62	FR SNOKE ALLEY	LT		 	7	30	 					 				PLACE AT EXISTING LOCATION
	KNO	U.S. 62	FR SNOKE ALLEY	RT			6	28			,							PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ON US 62 @ SLM 18.02	SB							3							PLACE AT EXISTING LOCATION
	KNO	U.S. 62	W. CHURCH ST	LT			10	46										PLACE AT EXISTING LOCATION
-+	KNO	U.S. 62	E. CHURCH ST	RT			10	46										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	OAK ALLEY	LT			6	30										PLACE AT EXISTING LOCATION
\dashv	KNO	U.S. 62	W. WALNUT ST	LT			11	44										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	E. WALNUT ST	RT			11	50										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ALLEY	LT			12	30										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ALLEY	RT	-		12	30						-				PLACE AT EXISTING LOCATION
	KNO	U.S. 62	W. SOUTH ST	LT			11	48										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	E. SOUTH ST	RT			10	48										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ALLEY	LT			8	30										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ALLEY	RT			8	30										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ON US 62 BEFORE W. MAIN ST.	CL			20											PLACE AT EXISTING LOCATION
	KNO	U.S. 62	W. MAIN ST	LT			15											PLACE AT EXISTING LOCATION
	KNO	U.S. 62	SR 205	LT			18											PLACE AT EXISTING LOCATION
	KNO	U.S. 62	ON US 62 AFTER SR 205	CL			20											PLACE AT EXISTING LOCATION
	KNO	U.S. 62	CEDAR ST	LT			12	48	-									PLACE AT EXISTING LOCATION
	KNO	U.S. 62	S. CEDAR ST	RT			16	66										PLACE AT EXISTING LOCATION
	KNO	U.S. 62	LINWOOD ST	LT			10	40	-									PLACE AT EXISTING LOCATION
	KNO	U.S. 62	S. LINWOOD ST	RT			10	58	-									PLACE AT EXISTING LOCATION
	KNO	U.S. 62	BLACK RD	LT			22		1									PLACE AT EXISTING LOCATION
	KNO	U.S. 62	HILLCREST DR	RT			10		1									PLACE 20' FROM US 62 CL
1	KNO	U.S. 62	BODYRD	LT 			19		1									PLACE 23' FROM US 62 CL
1	KNO	U.S. 62	BUCKEYE RD	RT			28		1					-				PLACE 25' FROM US 62 CL
1	KNO	U.S. 62	MICKLEYRD	RT			32		1					 				PLACE 22' FROM US 62 CL
	KNO	U.S. 62	MICKLEYRD	LT 			24											PLACE 21' FROM US 62 CL
1	KNO	U.S. 62	MICKLEYRD	RT			27		-									PLACE 18' FROM US 62 CL
<u> </u>	KNO	U.S. 62	PRITCHARD RD	LT			29		1									PLACE 21' FROM US 62 CL
1	KNO	U.S. 62	BRINKHAVEN RD	LT 			40		-					-				PLACE 18' FROM US 62 CL
1	KNO	U.S. 62	ROAD ACROSS FROM BRINKHAVEN RD	RT			24		1									PLACE AT EXISTING LOCATIONS
1	KNO	U.S. 62	MAIN ST	LT 			26		1									PLACE 22' FROM US 62 CL
1	KNO	U.S. 62	HUNTER RD	RT		<u> </u>	21		-									PLACE 20' FROM US 62 CL
1	KNO	U.S. 62	STATE ST	LT			36		-									PLACE 20' FROM US 62 CL
1	KNO	U.S. 62	STATE ST	LT			27		-					-				PLACE 20' FROM US 62 CL
	KNO	U.S. 62	VILLAGE OF DANVILLE	LT/RT					1					-		1	1,396	PLACE AT EXISTING LOCATIONS
				1					1					<u> </u>				
		I	SUB-TOTALS	I	1				I	I	1	I					İ	I

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DETAIL	SEE STD. DWG. TC-65.11
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
<u> </u>	

DETAIL	SEE STD. DWG. TC-65.11
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40'
12	HORIZONTAL CURVE ALT.
GAP	CENTERLINE AT 80' TYP.

								62	21		PRISMATIC RI	ETRO-REFLE	CTOR COLORS		
L											INFORMATION ONLY ONE-WAY TWO-WAY				
O C A T I	C O U N T Y	R O U T E	BEGIN LOG POINT SLM		LEN	GTH	D E T A I L	RAISED PAVEMENT MARKER REMOVED	RPM	ONE			TWO-WAY		REMARKS
N					MILES	LIN.FT.		EACH	EACH	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
1	KNO	U.S. 62	0.00	4.09	4.09	21,595	GAP	270	270			270			LIC. CO. TO MARTINSRURG WEST CORP
1	KNO	U.S. 62	4.54	4.74	0.20	1,056	12	29	29			29			PC 4.63 PT 4.65 L=106' DEG 26
1	KNO	U.S. 62	4.74	7.23	2.49	13,147	GAP	164	164			164			DO 700 DE 7071 -0441 DE 0.5
1 1	KNO KNO	U.S. 62 U.S. 62	7.23 7.27	7.27 12.24	0.04 4.97	211 26,242	11 GAP	328	328			328			PC 7.23 PT 7.27 L=211' DEG 5
1	KNO	U.S. 62	12.24	12.29	0.05	264	11	7	7			7			PC 12.24 PT 12.29 L=264' DEG 5
1	KNO	U.S. 62	12.29	12.50	0.21	1,109	GAP	14	14			14			
1	KNO	U.S. 62	12.50	12.72	0.22	1,162	12	35	35	2		35			PC 12.59 PT 12.63 L=211' DEG 19
1	KNO KNO	U.S. 62 U.S. 62	12.72 17.07	17.07 17.18	4.35 0.11	22,968 581	GAP 11	290 15	290 15	3		287 15			ONE WAY WHITE FOR US 36 CONNECTOR TURN LANE PC 17.07 PT 17.18 L=581' DEG 5
1	KNO	U.S. 62	17.18	17.23	0.05	264	GAP	3	3			3			, , , , , , , , , , , , , , , , , , , ,
1	KNO	U.S. 62	17.23	17.29	0.06	317	11	8	8			8			PC 17.23 PT 17.29 L=317' DEG 7
1	KNO	U.S. 62	17.29	17.52	0.23	1,214	GAP	15	15			15			SLM TO DANVILLE W. CORP.
*	KNO	U.S. 62	18.57	19.32	0.75	3,960	GAP	50	 50			50			DANVILLE E. CORP. TO SLM
1	KNO	U.S. 62	19.32	19.51	0.19	1,003	11	25	25			25			PC 19.32 PT 19.51 L=1003' DEG 5
1	KNO	U.S. 62	19.51	22.65	3.14	16,579	GAP	207	207			207			END HOLMES COUNTY
	LOC	L :ΔTION 1 TO	TALS (CARRIE	D TO SHR-SH	MMARY)			1,465	1,465						

					SHEET N	IUMBERS						ITEM	ITEM	GRAND	UNIT	DESCRIPTION
2	3	4	5	8	9	11	12	14	22	24	25	i i Eivi	EXT.	TOTALS	UIVII	DESCRIF LION
	2,790					16,800		, a.e				202	23500	19,590	SQ YD	WEARING COURSE REMOVED
		-		-	-			661		-		202	30000	661	SQFT	WALK REMOVED
		-			-			72 44		-		202	30001 32000	72 44	SQ FT FT	WALK REMOVED, AS PER PLAN CURB REMOVED
													22000	, t		
43.54												209	60500	43.54	MILE	LINEAR GRADING
					43.54							209	72051	43.54	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN
1,300		-										253	01000	1,300	CU YD	PAVEMENT REPAIR
1,300					-						+	∠53	0.1000	£,300	CO 10	FAVERS REFAIN
				296,592	46,740		75					254	01000	343,407	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE
				20,334	3,398	1,265	6					407	10000	25,003	GALLON	+
				13,556 1,912	2,266 109	845	4				+	407 407	14000 20500	16,671 2,021		TACK COAT FOR INTERMEDIATE COURSE SPECIAL - TACK COAT, TRACKLESS TACK
				1,275	73							407	20500	1,348	-	SPECIAL - TACK COAT, TRACKLESS TACK FOR INTERMEDIATE
				,								_ ·		4 - · · ·		
	20,435											408	10001	20,435	GALLON	PRIME COAT, AS PER PLAN
				200	4.000								40000	28.855	A.137	ADDUAL FOOLODETE WITEDLIED VIEW TO COURSE THE COLOR
	24 98	180		8,240 10,299	1,299 1,624	472	3 ~			<u> </u>		448 448	46020 46904	10,038 12,204	CUYD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22
	30	100		₹0,∠∀₹	1,8∠4	588	ა				+	448	46904 47020	588	CU YD CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-22M ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
							300					516	31011	300	FT	2" DEEP JOINT SEALER, AS PER PLAN
								555				608	10000	555	SQFT	4" CONCRETE WALK
								103				609	26000	103	FT	CURB, TYPE 6
	5											611	98630	5	EACH	CATCH BASIN ADJUSTED TO GRADE
	7				 					-		611	99150	7	EACH	INLET ADJUSTED TO GRADE
	15	-			-					-	 	611	99654	15	EACH	MANHOLE ADJUSTED TO GRADE
			120		 	+					+	614	11110	120	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
		252										614	12460	252	EACH	WORK ZONE MARKING SIGN
		14										614	13000	14	-	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
			6									614	18601	6	SIGN MNTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
				44.99								614	21400	44.99	MILE	WORK ZONE CENTER LINE, CLASS II
		1			3,797							617	10101	3,797	CU YD	COMPACTED AGGREGATE, AS PER PLAN
		1			3,181	+				 	+ +	710	10101	<u>৩,/৪/</u>	CON	SOMPACTED AGGREGATE, AS PER PLAN
					14.11							618	41000	14.11	MILE	EDGE LINE, RUMBLE STRIPE (ASPHALT CONCRETE)
		1			1					1	1,465 1.465	621 621	00100 54000	1,465 1,465	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED
											1,400	021	34000	1,400	EAUT	IVAIOED FAYEIRER I MARKEK REMOVED
	3											638	53500	3	EACH	VALVE BOX ADJUSTED TO GRADE
										110		644	00400	110	FT	CHANNELIZNG LINE, 8"
		-			<u> </u>					1,428		644	00500	1,428	FT	STOP LINE
		1			1					2,294		644 644	00600 01100	2,294	FT EACH	CROSSWALK LINE SCHOOL SYMBOL MARKING, 72"
						+				1,396	+	644	01200	2 1,396	FT	PARKING LOT STALL MARKING
					<u> </u>	+				1	†	644	01300	1	EACH	LANE ARROW
					<u>L</u> _					1		644	01410	1	EACH	WORD ON PAVEMENT, 96"
										1		644	01600	1	EACH	HANDICAP SYMBOL MARKING
									00.7				88455			
									39.64 22.65			648 648	00100	39.64 22.65	MILE MILE	EDGE LINE, 4" CENTER LINE
									ZZ.00			040	80308	22.00	iAttr⊏	
					1			3			† †	690	98000	3	EACH	SPECIAL - MISC.: CURB RAMPS, TYPE A2
								126				ഒര	98200	136	SOFT	SPECIAL - MISC : DETECTABLE WARNING

SPECIAL - MISC.: DETECTABLE WARNING

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CATION 1 SUB-SUMMAR

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ENERAL SUMMARY

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LOCATION TOTALS	PARTICIPA	TION CODE							
LOCATION 1	"01/STR/PV"	"02/STR/OT"	ITEM	ITEM EXT.	GRAND TOTALS	UNIT	DESCRIPTION		
1,465		1,465	621	00100	1,465	EACH	RPM		
1,465		1,465	621	54000	1,465	EACH	RAISED PAVEMENT MARKER REMOVED		
3	3		638	53500	3	EACH	VALVE BOX ADJUSTED TO GRADE		
110		110	644	00400	110	FT	CHANNELIZING LINE, 8"		
1,428 2,294		1,428 2,294	644 644	00500 00600	1,428	FT FT	STOP LINE CROSSWALK LINE		
2,234		2,234	644	01100	2,294 2		SCHOOL SYMBOL MARKING, 72"		
1,396		1,396	644	01200	1,396	FT	PARKING LOT STALL MARKING		
1		1	644 644	01300 01410	4	EACH EACH	LANE ARROW WORD ON PAVEMENT, 96"		
1		1	644	01600	1	EACH	HANDICAP SYMBOL MARKING		
39.64		39.64	648	00100	39.64	MILE	EDGE LINE, 4"		
22.65		22.65	648	00300	22.65	MILE	CENTERLINE		
3	3		690	98000	3	EACH	SPECIAL - MISC.: CURB RAMPS, TYPE A2		
136	136		690	98200	136	SQFT	SPECIAL - MISC.: DETECTABLE WARNING		
			103	05000	LUMP		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND		
			614	11000	LUMP	14007	MAINTAINING TRAFFIC		
			619 623	16000 10000	3 LUMP	MONIH	FIELD OFFICE, TYPE A CONSTRUCTION LAYOUT STAKES AND SURVEYING		
			624	10000	LUMP		MOBILIZATION		

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