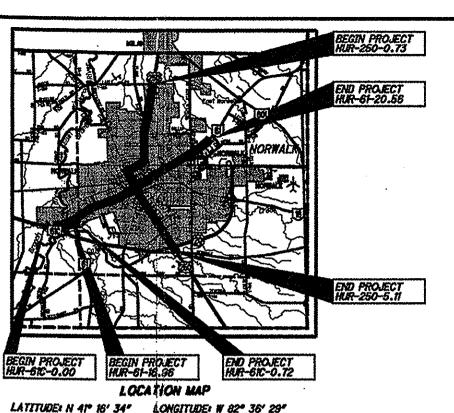
O.

PORTION TO BE IMPROVED.

OTHER ROADS

INTERSTATE & DIVIDED HIGHWAY....

UNDIVIDED STATE & FEDERAL ROUTES.



SCALE IN MILES

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION HUR-250-00.73

CITY OF NORWALK **HURON COUNTY**

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PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE PAVEMENT PLANING, PAVEMENT REPAIR, RESIRFACING WITH ASPHALT CONCRETE, PAVEMENT MARKINGS AND MINOR BRIDGE REHABILITATION WORK.

PROJECT EARTH DISTURBED AREAS N/A ACRES ESTIMATED CONTRACTOR EARTH DISTRIBED AREA: NVA ACRES NOTICE OF INTENT EARTH DISTURBED AREAS

2010 SPECIFICATIONS

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

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

DILITOTRECTOR, DEPARTMENT

PLANS PREPARED BY:



SUPPLEMENTAL

CALL
1-800-362-2764
FOLL FREE
ONIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
NEIST BE CALLED DIRECTLY





DATE: 1/10/13

STANDARD CONSTRUCTION DRAWINGS SPECIFICATIONS BP-3.1 04/20/12 MT-95.31 07/20/12 07/18/04 MT-95.32 07/20/12 07/20/12 47-101.90 10/19/12 TC-52.10 0V10/07 TC-52.20 OV 10/0 SPECIAL C-71.10 PO/RE/E **PROVISIONS**

NVA ACRES

25(

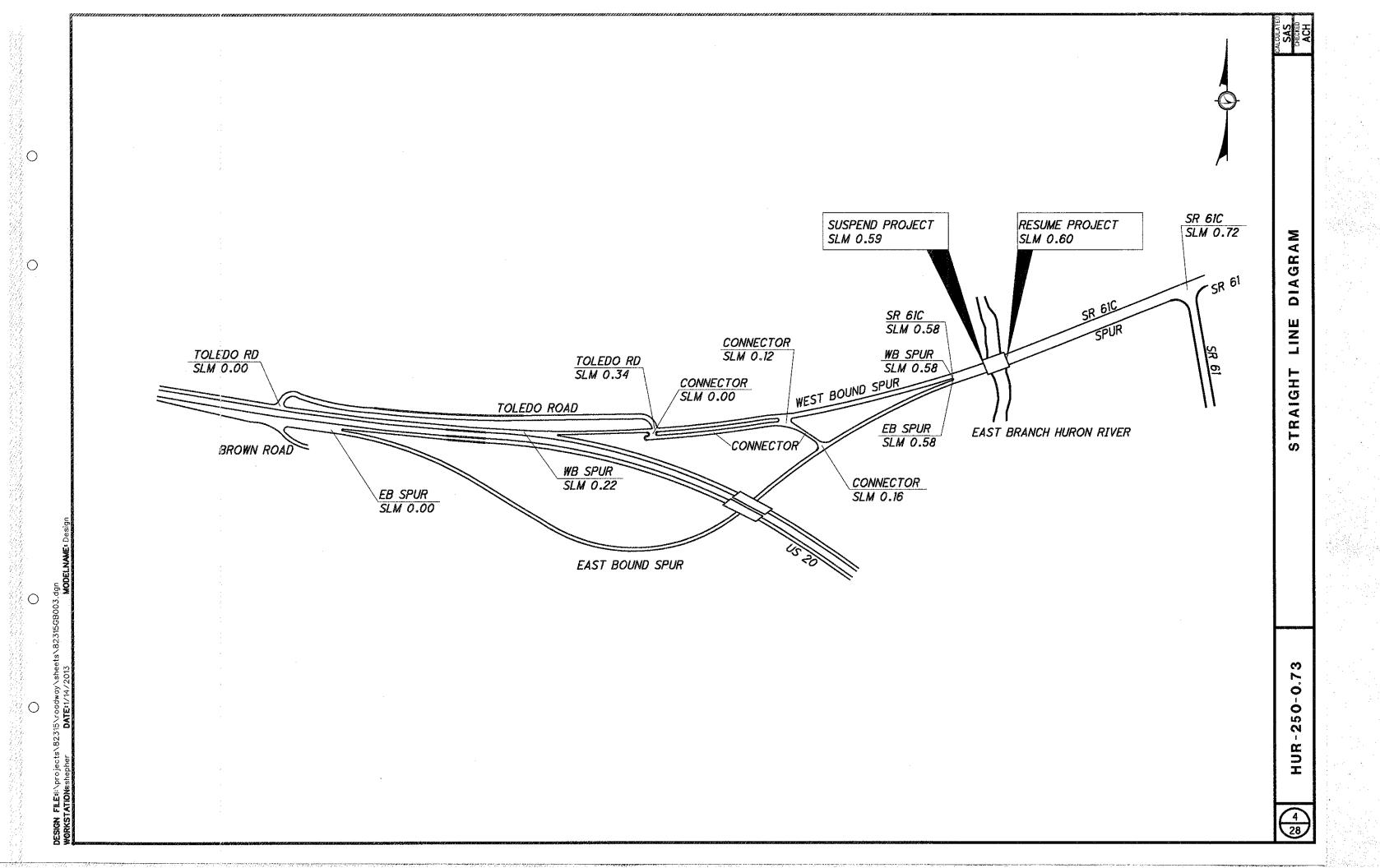
SLM 00.75 CORP. LIMIT ENTER NORWALK ENTER NORWALK ENTER NORWALK	SLM 00.86 CORI LEAVE NORWALK SLM 01.00 MILE POST SLM 01.20 CORP	ENTER NORWALK SLM 01.24 (STOWER LANE) SLM 01.26 CORP. CAVE NORWALK SLM 01.29 CORP	ENTER NORWALK SLW 01.48 SLW 01.48 REPUBLIC ST.)	SLM 01.75 (WESTWIND DR.) SLM 01.75 (WESTWIND DR.)	SIM 01.96 (SIM-SON ST.) (CLINE ST.) SLM 01.96 (SIM-SON ST.) SLM 02.00 SLM 02.00 WILLARD AVE.)	SLM 02.26 (WILLIAMS AVE.)		(WOOSTER ST.) SIM 02.79 (N. FOSTER AVE. SIM 02.84 (N. PROSPECT ST		SLM 03.16 COHIO ST.) CHIO ST.) SLM 03.18 (RAIL ROAD ST.) SLM 03.28 (MONROE ST.)	SLM 03.34 (SR 61, MAIN MATCH LINE A
LINE A SLM 03.40 (SEMINARY ST.) SLM 03.46	IE. WATER) SLM 03.47 (WHEELING & LAKE ERIE RW) SLM 03.51 BRIDGE	SLM 03,55 (SUMMIT ST.) SLM 03,65 (HICKORY ST.)	SLM 03.73 (ELM S7.)		SLM 03.92 CCHESTNUT ST.)	SLM 04.12 (OLIVE ST.) SLM 04.27	IWAKKEN AVE.) SIM 04.36 (GARCIA DR.)	SLM 04.49 (EXECUTIVE DR.)	SLM 04.65 (FIRELANDS BLVD.) SLM 04.77 CORP. LIMIT LEAVE NORWALK	SLM 04.86 RAMP FROM U.S.R. 20 SSI M 04.92 (U.S.R. 20) SLM 05.03 MILE POST RAMP TO U.S.R. 20 SLM 05.03 RAMP TO U.S.R. 20 RAMP TO U.S.R. 20	SLM 05.10 SLM 05.11 (JOINT)
WATC!	нишинишишишишишишишишишишишишишишишишиш	SLM 03.55 (NORWOOD AVE.)	SLM 03.79 (WALNUT ST.)	SLM 03.86 IPARK AVE.)	U.S.R. 250 (BENEDICT) (MOODWARD DR.)			SIM 04.57 (SHADY LANE DR.)	oorano percentura de la companya de	SLM 04.86 RAMP TO U.S.R. 20 SLM 05.03 RAMP FROM U.S.R. 20	SLM 05.10 CORP. LIMIT LEAVE NORWALK END OF PROJECT S

DESIGN FILE#:\projects\82315\roadway\sheets\82315GB002.dgn WORKSTATIONsshepher DATE:4/1/2013 MODELNAME: Design

HUR-250-00.73

STRAIGHT LINE DIAGRAM

																									\	-
	NORTH BRIDGE APROACH	SLM 16.96 CORP. LIMIT		SLM 17.15 (SR 6IC)		SLM 17.36 (SYCAMORE DR.)	SLM 17.59 (VALLEY PARK DR.) SLM 17.68 (MARIAN DR.)	SLW 17.74 (VINEWOOD DR.)	SLM 17.84 INORTH WEST ST.)	SLM 18.10 WORTH GARFIELD AVE.)	SLM 18.24 ICORTLAND ST.)	SLM 18.37 (NORTH PLEASANT ST.)	SLM 18.50 (NEWTON ST.)	SLM 18.55 (MINARD ST.)	SLM 18.56 WHIEELING & LAKE ERIE RR)	SLM 18.57 WANAHAN AVE.)	SLM 18.63 (STATE ST.)	SLM 18.68 (CASE AVE.)	SLM 18.73 (WORTH HESTER ST.)	SLM 18.79 (USR 250)	SLM 18.85 NORTH LINWOOD AVE.)	SLM 18.91 INORTH PROSPECT ST.)	SLM 18.96 WORTH FOSTER ST.J	SLM 19.05 (WOOSTER ST.)	SIM 19.08 (WOODLAWN AVE.)	LINE A
	BEGIN SR 61 SLM 16.95		SLM 16.39 CR 242(WEST MAIN STREET) SLM 17.00 CORP. LIMIT ENTER NORWALK	SLM 17.15 CORP. LIMIT LEAVE NORMALK	SLM 17.32 CORP, LIMIT ENTER NORWALK	SLM 17.40 (WEST MAIN ST.)			SLM 17.84 (SOUTH WEST ST.)	SLM 18.10 ISOUTH GARFTELD AVE.)		SLM 18.37 (SOUTH PLEASANT ST.)			S.R.	61 (WEST	MAIN STREE	זו	SIM 18.73 (SOUTH HESTER ST.)		SLM 18.85 (SOUTH LINWOOD AVE.)	SLM 18.91 (SOUTH PROSPECT ST.)	SIM 18.96 (SOUTH FOSTER ST.)			МАТСН
	INE A	SLM 19.09 (MARSHALL ST.)	SLM 19.14 (KING ST.)	SIM 19.23 (CHATHAM ST.)		SLM 19.32 (NORTH GARDEN ST.)	SUSPEND PI SLM 19	ROJECT 54	SLM 19.54 (SCHAUSS AVE.)	SLM 19.55 (ABANDONED RR)		29 01 M 13	IGROVE ST.)	SLM 19.75 (VANDERCOOK ST.)	RESUME 19:36 (MACK ST.)	PROJECT 19.78		IOLD STATE RUSS	SLM 20.34 CORP, LIMIT LEAVE NORWALK			LEAVE NORWALK OJECT SLM 20.56				
82315GB001.dgn MODELNAME: Design	MATCH I		SIM 19.15 (MILL ST.) SLM 19.20 (CORNIN ST.)			SLM 19,32 (SOUTH GARDEN ST.)	SLM 19.42 (ROSEDALE BLVD.)		SLM 19.53 (CLEVELAND ROAD)		RESUME I			87.61 M.12	S.R. 61 6	EAST MA	N STREET)		SLM 20.42 CORP. LIMIT LEAVE NORWALK	 1	ENTER NORWALK	SLM 20.55 CORP. LIMIT END OF PROJ				
DESIGN FILE#:\projects\82315\roadway\sheets\82315GB001.dgr WORKSTATION&shepher DATE#1/14/2013								PEND PR SLM 19.	55		SLM	PROJECT 19.55			SZ.	ND PROJEC M 20.11			RESUME PROJEC SLM 20.29							



DESIGN EXCEPTIONS NONE		DESIGN EXCEPTIONS NONE
DESIGN DESIGNATION IHUR-250-4.92	10 5.W	DESIGN DESIGNATION
CURRENT ADT (2013)	9,530	CURRENT ADT (2013)
DESIGN YEAR ADT (2025)	9,530	DESIGN YEAR ADT (2025)
DESIGN HOURLY VOLUME (2035)		
DIRECTIONAL DISTRIBUTION	0.58	DIRECTIONAL DISTRIBUTION
TRUCKS (24 HOUR B&C)	0.20	TRUCKS (24 HOUR B&C)
DESIGN SPEED	45 MPH	DESIGN SPEED
LEGAL SPEED	45 MPH	LEGAL SPEED.
DESIGN FUNCTIONAL CLASSIFICATION:		DESIGN FUNCTIONAL CLAS
URBAN PRINCAL ARTERIAL		URBAN PRINCAL ARTERI
NHS PROJECT	YES	NHS PROJECT
		DESIGN EXCEPTIONS
DESIGN EXCEPTIONS		

DESIGN DESIGNATION (HUR-250-0.73 TO 2.49)

CURRENT ADT (2013) ______ 14,840

DESIGN YEAR ADT (2025) _______ 15,180

DESIGN HOURLY VOLUME (2035)______1,520

DIRECTIONAL DISTRIBUTION ______ 0.51

TRUCKS (24 HOUR B&C)______ 0.15

NHS PROJECT._____YES

DESIGN FUNCTIONAL CLASSIFICATION:

URBAN PRINCAL ARTERIAL

DESIGN SPEED______35 MPH

LEGAL SPEED._____ 35 MPH

CURRENT ADT (201	3)	4,150
DESIGN YEAR ADT	(2025)	4,600
DESIGN HOURLY VO	OLUME (2035)	510
DIRECTIONAL DIST	RIBUTION	0.53
TRUCKS (24 HOUR	B&C)	0.06
DESIGN SPEED	<i>VARIES 3</i> 5	TO 45 MPH
LEGAL SPEED.	VARIES 35	TO 45 MPH
DESIGN FUNCTIONA	L CLASSIFICATION:	
URBAN PRINCAL	ARTERIAL	

DESIGN HOURLY VOLUME (2035)______1,010

DIRECTIONAL DISTRIBUTION ______ 0.53

DESIGN SPEED _______VARIES 25 TO 35 MPH

LEGAL SPEED.______VARIES 25 TO 35 MPH

NHS PROJECT......YES

DESIGN FUNCTIONAL CLASSIFICATION:

URBAN PRINCAL ARTERIAL

_ 6,560
_ 6,560
_ 720
_ 0.51
_ 0.06
35 MPH
35 MPH
NO

DESIGN HOURLY VOLUME (2035)______1,600

DIRECTIONAL DISTRIBUTION ______ 0.52

DESIGN SPEED_____25 MPH

LEGAL SPEED._____25 MPH

NHS PROJECT._____YES

DESIGN DESIGNATION (HUR-61-17.15 TO 18.79)

DESIGN FUNCTIONAL CLASSIFICATION:

URBAN PRINCAL ARTERIAL

DESIGN EXCEPTIONS

NONE

CURRENT ADT (2013)		8,760
DESIGN YEAR ADT (2025)		8,850
DESIGN HOURLY VOLUME (2035)		970
DIRECTIONAL DISTRIBUTION	·	0.51
TRUCKS (24 HOUR B&C)		0.03
DESIGN SPEED	VARIES 25	TO 35 MP
LEGAL SPEED	VARIES 25	TO 35 MP
DESIGN FUNCTIONAL CLASSIFIC	ATION:	
URBAN MINOR ARTERIAL		
NHS PROJECT		NO

DESIGN DESIGNATION (HUR-61-18.79 TO 19.55)

DESIGN DESIGNATION (HUR-250-3.34 TO 4.92)

CURRENT ADT (2013) ______ 13,000

DESIGN YEAR ADT (2025) ______ 14,260

DESIGN HOURLY VOLUME (2035)______1,430

DIRECTIONAL DISTRIBUTION ______ 0.55

DESIGN SPEED _______VARIES 25 TO 45 MPH

LEGAL SPEED _______VARIES 25 TO 45 MPH

NHS PROJECT._____ YES

DESIGN FUNCTIONAL CLASSIFICATION:

URBAN PRINCAL ARTERIAL

DESIGN EXCEPTIONS

NONE

DESIGN EXCEPTIONS NONE

DESIGN DESIGNATION (HUR-250-2.49 TO 2.93) DESIGN DESIGNATION (HUR-250-2.93 TO 3.34)

CURRENT ADT (2013) _______ 13.860

DESIGN YEAR ADT (2025) 15,990 DESIGN YEAR ADT (2025) 15,990

DESIGN	EXCEP	TIONS
MONE		

+			
DESIGN DESIGNATION (HUR-61-19.55	<i>10 20.34)</i>	DESIGN DESIGNATION (HUR-61-20.34 TO	2

0

GENERAL PAVING AT RAILPOAD CROSSINGS

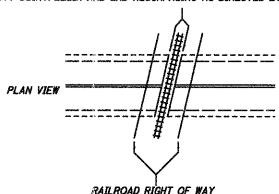
PRIOR TO ANY WORK AT RAILROAD CROSSINGS THE CONTRACTOR SHALL CONTACT THE AFFECTED RAILROAD AUTHORITY SO AS TO MAKE THEM AWARE OF THE PROGRESS AND SCHEDULE OF WORK. THE CONTRACTOR SHALL COOPERATE WITH THE RAILROAD SO AS TO ELIMINATE ANY SAFETY CONCERNS. FLAGGING WILL BE REQUIRED BY THE RAILROAD. ODOT WILL BE RESPONSIBLE FOR PAYING THE RAILROAD FOR ALL FLAGGING COSTS. REFER TO THE RAILROAD SPECIAL OF ALL FLAGGING COSTS.

THE CROWN SHALL BE WORKED OUT OF THE RESURFACED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE RESURFACED PAVEMENT TO MEET THE PLATFORM ELEVATION.

SUSPEND AND RESUME RESURFACING AT THE HEADER TIE, AS DIRECTED BY THE

DETAIL - PAVING AT RAILROAD CROSSING

BUTT JOINT/BEGIN AND END RESURFACING AS DIRECTED BY THE ENGINEER



1.) DO NOT DISTURB RAILROAD GATES

2.) RE-INSTALL PAVEMENT MARKINGS

3.) RAILROAD MAY DIRECT ENGINEER ON THE LOCATION OF BUTT JOINTS. OTHERWISE OMIT AND RESUME RESURFACING AT HEADER TIE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CITY OF NORWALK 38 WHITTLESEY AVENUE NORWALK. OHIO 44857 JOSH SNÝDER, PE DIRECTOR OF PUBLIC WORKS 419-663-6735 pw-engeaccnorwalk.com

NORTHERN OHIO RURAL WATER P.O. BOX 96 COLLINS, OHIO 44826 BRYAN PUDER 419-668-7213 bp@norw.org

BUCKEYE OIL PIPELINE COMPANY P.O. BOX 542 MANTUA, OHIO 44255 TIM JOSEPH 330-931-8309 TMJosephebuckeye.com

OHIO EDISON COMPANY 2508 WEST PERKINS AVE. SANDUSKY, OHIO 44870 JEFF SCHMID 419-627-6887 schmidja@firstenergycorp.com

COLUMBIA GAS OF OHIO 1021 N. MAIN ST. MANSFIELD, OHIO 44903 KURT SAUM, FIELD ENGINEER 419-528-1137

TIME WARNER CABLE 1575 LEXINGTON AVENUE MANSFIELD, OHIO 44901 DAVID BAKER 419-756-6091 ext. 419-555-5109 davec.baker@twcable.com

COLUMBIA GAS TRANSMISSION 589 NORTH STATE ROAD MEDINA, OHIO 44256 RANDY GRIFFIN, SUPERVISOR 330-721-4165 rgriffin**e**nisource.com

ONE COMMUNITY RON FORSTER 800 W. SAINT CLAIR, 2ND FLOOR CLEVELAND, OHIO 44113 216-923-2356

FRONTIER COMMUNICATIONS 83 TOWNSEND AVENUE NORWALK, OHIO 44857 SCOTT WETZEL 419-744-3613 scott.wetzel@ftr.com

WINDSTREAM 560 TERNE AVENUE ELYRIA. OHIO 44035 NICK PAK, CONSTRUCTION SUPERVISOR 440-329-4251

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES.
SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER
THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED
WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE
RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND
SERVICES

COMPLETION OF WORKS

WHEN PLANING WORK COMMENCES ON THIS PROJECT, THE CONTRACTOR HAS 42 CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL PLANING, PAVEMENT REPAIR, ASPHALT PAVING, AGGREGATE SHOULDER, AND LOOP DETECTOR WORK. ALL OTHER WORK SHALL BE COMPLETED BY THE COMPLETION DATE, AND MEET REQUIREMENTS IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE INTENT IS TO ALLOW THE CONTRACTOR A WINDOW TO PERFORM THE WORK BUT NOT HAVE THE WORK EXCEED THE FINAL COMPLETION DATE OF THE CONTRACT. THE 42 CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE. FAILURE OF THE CONTRACTOR TO MEET THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07 OF THE CONSTRUCTION AND MATERIALSPECIFICATIONS.

ROADWAY

ITEM 209 - LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE INTERMEDIATE COURSE HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOYE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

LIEM 604 - MONUMENT BOX ADJUSTED TO GRADE

THE MONUMENT BOX TO BE ADJUSTED MAY OR MAY NOT HAVE AN EXISTING ADJUSTABLE FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING MONUMENT BOX TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT

LIEM 604 - CASTINGS ADJUSTED TO GRADE

THE CASTING TO BE ADJUSTED MAY OR MAY NOT HAVE AN EXISTING FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING CASTING TO THE SATISFACTION OF THE ENGINEER. IT IS NOT INTENDED TO PLACE NEW FRAMES WHERE NONE CURRENTLY EXIST. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT FRAMES.

PAVEMENT

ITEM 253 - PAVEMENT REPAIR. MISC.: PARTIAL DEPTH <u> 17EM 253 - PAVEMENT REPAIR, AS PER PLAN</u>

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

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE INTERMEDIATE AND/OR SURFACE COURSE. THE REPAIR AREAS SHALL BE SAW CUT AND EXCAVATED TO PROVIDE STRAIGHT AND VERTICAL SURFACES AROUND THE PERIMETER OF THE REPAIR AREA. PAVEMENT PLANING MAY BE USED AS AN ALTERNATIVE TO SAW CUTTING AND EXCAVATING. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE ADJACENT PAVEMENT. THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 6.25", BASED ON THE PAVEMENT DESIGN AND AN AVERAGE WIDTH OF 5 FT FOR ESTIMATING PURPOSES. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH IDE 18 AND 105 TO THE PAVEMENT OF 18 AND WITH 105.16 AND 105.17.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAYEMENT REPAIRS 2

REPLACEMENT MATERIAL SHALL BE ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 ISMM MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE, PG64-22 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 448 TYPE 2 OR ITEM 442 ISMM CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 ISMM MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 448 TYPE 2 OR ITEM 442 ISMM MATERIAL SHALL BE PG64-22 FOR MEDIUM MIX DESIGN PAVEMENTS AND PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS. ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02. 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. FOR PAYMENT PURPOSES ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH IS TO BE A MAXIMUM OF 4" DEEP AND ITEM 253 PAVEMENT REPAIR, AS PER PLAN IS FOR DEPTHS GREATER THAN 4". PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253 - PAVEMENT REPAIR, AS PER PLAN OR ITEM 253 - PAVEMENT REPAIR, MISC.: PARTIAL DEPTH. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

SR 250 ITEM 253 - PAVEMENT REPAIR, MISC.: PARTIAL DEPTH 371 CU. YD. SR 250 ITEM 253 - PAVEMENT REPAIR, AS PER PLAN 43 CU. YD. SR 61 ITEM 253 - PAVEMENT REPAIR, MISC.: PARTIAL DEPTH 82 CU. YD. SR 61 ITEM 253 - PAVEMENT REPAIR, AS PER PLAN 125 CU. YD. SR 61C ITEM 253 - PAVEMENT REPAIR, MISC.: PARTIAL DEPTH 41 CU. YD.

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ITEM 254 - PATCHING PLANED SURFACE

AN ESTIMATED QUANTITY OF ITEM 254 - PATCHING PLANED SURFACE HAS BEEN SET UP TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 254.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

LIEM 254 - PAYEMENT PLANING, ASPHALT CONCRETE

THE INTENT OF THE PLANING IS TO MILL THE SPECIFIED DEPTH ALONG THE CURB CONTINGENT ON THE FOLLOWING: THE PAVEMENT SLOPE SHALL BE CONTINUOUS BETWEEN THE CROWN AND THE CURB WHILE TRYING TO ACHIEVE THE TYPICAL CROSS SLOPE OF 0.016. THE MAXIMUM CROSS SLOPE SHALL BE 0.02 WHILE THE MINIMUM CROSS SLOPE SHALL BE 0.01. THE CROSS OF THE PAVEMENT SHALL BE 3.0CATED BETWEEN THE TRAVELED LANES, OR AS DIRECTED BY THE ENGINEER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CURB, TO PRODUCE & CROSS SLOPE IN CONFORMANCE WITH THE ABOVE GUIDELINES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENCINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAYMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAYMENT

<u> LIEM 254 - PAVEWENT PLANING, ASPHALT COMCRETE</u>

THE INTENT OF THE PLANING IS TO MILL I INCHES AT THE CENTER OF PAVEMENT AT NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.016
PREFERRED AND 0.016 MINIMUM, CONTINUOUS BETWEEN THE CROWN AND THE
PROPOSED EDGELINE/SHOULDER. THE MILLING DEPTH SHALL BE CONTROLLED
FROM THE CENTER OF PAVEMENT IN CONFORMANCE WITH THE ABOVE GUIDELINES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$1,000.00 FER DAY. of \$1.000.00 PER DAY.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAYEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAYEMENT PLANING, ASPHALT CONCRETE.

<u> LIEM 407 - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE</u> ITEM 407 - TACK COAT. TRACKLESS TACK. SURFACE COURSE

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH NTSS-IHM 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°C STORAGE STABILITY, 24 HRS, % STORAGE STABILITY, 5 DAYS, % RESIDUE BY DISTILLATION, % OIL DISTILLATE, % SIEVE TEST, %	ASTM D88 ASTM D244 ASTM D244 ASTM D244 ASTM D244 ASTM D244	15 50 	100 5 1 0.3
TEST ON RESIDUE	•		
PENETRATION, @ 25°C, SOFTENING POINT RANGE DEG C SOLUBILITY, % ORIGINAL BINDER DSR @ 82°C	ASTM D5 ASTM D36 ASTM D2042	 65 97.5	20
G*/SIN A,10 RAD/SEC	AASHTO TIII	1	

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 SHALL APPLY. SEE MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF CATIONIC EMULSION WAS PREVIOUSLY

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

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 BE PLACED AT 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

DILUTION IS NOT ALLOWED.

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: ALL REQUIREMENTS OF 407.08 APPLY. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE AS

DESCRIPTION
TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE
TACK COAT, TRACKLESS TACK, SURFACE CORSE ITEM UNIT 407 GALLON

LIEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM.

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W-8-1-36) SHALL BE ERECTED AT ANY TRANSVERSE JOINT LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

<u> 17EM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE. 19MM.</u> TYPE & (448)

THIS ITEM SHALL BE USED FOR CORRECTION OF CROWN, PROFILE AND ANY OTHER IRREGULARITIES.

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING
PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (WB-1-36) SHALL
BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT,
INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED
IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

INTERSECTIONS AND DRIVES

RURAL-INTERSECTIONS SHALL BE PLANED AND PAVED TO THE END OF THE RADII OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE WATER POCKETS).

URBAN-INTERSECTIONS SHALL BE PLANED AND PAVED TO THE BACK OF CROSSWALKS OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE WATER POCKETS).

EXISTING PAVED DRIVES SHALL BE PAVED SO AS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE HIGHWAY AND THE DRIVE, (DISTANCE FROM EDGE OF ROADWAY MAY VARY AT EACH DRIVE) AS DIRECTED BY THE ENGINEER.

EXISTING AGGREGATE DRIVES SHALL BE PAVED WITH AN APRON AN AVERAGE WIDTH OF 4 FT. THE SLOPE OF THIS APRON SHALL BE THE SAME AS THE ADJACENT PAVEMENT SLOPE OR AS DIRECTED BY THE ENGINEER. ANY GRADING NEEDED TO PAVE THE APRON SHALL BE INCLUDED IN THE RELATED ASPHALT ITEM FOR PAYMENT. ITEM 617 COMPACTED AGGREGATE SHALL BE PLACED ADJACENT TO THIS APRON TO PROVIDE A SMOOTH TRANSITION FROM THE APRON TO THE EXISTING DRIVE, (WIDTH OF THIS 617 APPLICATION MAY VARY) AS DIRECTED BY THE ENGINEER. AN ADDITIONAL QUANTITY OF ITEM 617 HAS BEEN ESTIMATED TO COMPLETE THIS WORK AND IS SHOWN AS AN EXTRA AREA ON THE PAVEMENT & SHOULDER DATA SHEET.

ANY HAZARD OR UNSAFE CONDITION RESULTING FROM THE ABOVE WORK MUST BE CORRECTED IMMEDIATELY. THE CONTRACTOR IS REMINDED OF SECTIONS 105.01, 107.07 & 614.02A OF THE CONSTRUCTION AND MATERIALS

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM. TYPE A (446). AS PER PLAN

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (WB-I-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Notes USE 50 GYRATIONS, FOR Notes USE 75 GYRATIONS.
MINIMUM TOTAL PG BINDER CONTENT IS 6.0 PERCENT. USE A PG 64-22 BINDER. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE
AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED
FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.

QUALITY CONTROL: DO NOT PERFORM NMOX IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

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ITEM 442 - MISC : ASPHALT GRINDINGS

FROM THE ASPHALT GRINDINGS GENERATED ON THIS PROJECT, 1283 CU YDS SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY OF NORWALK STREET DEPT. PROPERTY LOCATED AT 42 WOODLAWN AVENUE, NORWALK, OHIO 44857. ODOT WILL STOCKPILE THE DUMPED MATERIAL. ODOT WILL PROVIDE THE EXACT LOCATION OF THE STORAGE AREA ON THE PROPERTY TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. THE GRINDINGS ARE NOT TO BE DELIVERED WET AND THEY ARE TO BE DELIVERED DIRECTLY FROM THE PROJECT. 100% OF THIS MATERIALSHALL PASS A 1.5 INCH SIEVE AS JUDGED BY THE ENGINEER. THE GRINDINGS ARE TO BE DELIVERED BETWEEN THE HOURS OF 8100 AM AND 3100 PM. BEFORE DELIVERY, THE CONTRACTOR SHALL CONTACT RICHARD MOORE AT THE NORWALK STREET DEPARTMENT AT 419-663-6715.

THE MATERIAL IN THIS ITEM WILL BE PAID FOR BY THE CU YD.

ALL ASSOCIATED COSTS TO LOAD AND DELIVER THE ASPHALT GRINDINGS TO THE SITE AND TO ENSURE THE MATERIAL PASSES THE 1.5 INCH SEIVE ARE TO BE INCLUDED FOR PAYMENT BY THE CU YD PER ITEM SPECIAL, MISC.:

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

446 DENSITY ACCEPTANCE WITH FLAGGER CLOSING OF A

THIS PLAN NOTE APPLIES ONLY TO A FLAGGER CLOSURE OF ONE LANE OF A 2-LANE HIGHWAY DURING PAYING OPERATIONS WHEN USING STANDARD CONSTRUCTION DRAWING MT-97.11 OR MT-97.12, AND ALLOWS A PAYING 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 SUBLOTS AND CALCULATE TWO RANDOM CORE LOCATIONS IN EACH
SUBLOT AS DESCRIBED IN CRMS 446.05.

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

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM BIA ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (WB-1-36) AND "ADVISORY SPEED" (WI3-1-24) SIGNS SHALL BE ERECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

PLACEMENT OF ASPHALT CONCRETE

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.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL INE FOLLOWING ESTIMATED GUANTITI HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT A TEMPORARY ASPHALT WEDGE FROM THE EXISTING PAVEMENT TO THE PLANED SURFACE AT BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF IN EXCESS OF 1.5 INCHES. THIS QUANTITY SHALL ALSO BE USED AT PLANED SURFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS. BEFORE RESURFACING OF THE PAVEMENT, THE TEMPORARY WEDGE SHALL BE REMOVED AND THE COST SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRACEIC MAINTAINING TRAFFIC.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

I IEM 614 - WORK ZONE MARKING SIGN

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04.

WORK ZONE MARKING SIGN: (WB-HI2A-38) NO EDGE LINE WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE

= 8 EACH = 5 EACH

40 CU YD

TOTAL = 13 EACH

(TEM 614 - MAINTAINING TRAFFIC CLANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS!

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

NEW YEARS MEMORIAL DAY LABOR DAY MEMORIAL DAY
THANKSGIVING
THUNDER IN THE STREETS FESTIVAL: THURSDAY, AUGUST 8, 2013 HURON COUNTY FAIR: AUGUST 10 -18, 2013

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE TIME ALL LANES MUST BE OPEN TO TRAFFIC WEEK

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY MONDAY TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM MONDAY FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE FEE OF \$1000 PER DAY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS AS DIRECTED BY THE ENGINEERS

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.

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

DURING A TRAFFIC SIGNAL INSTALLATION.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. 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.

LEO'S 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 CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES AND PROVIDE 72 HOURS ADVANCE NOTICE AS REQUIRED BY THE HIGHWAY PATROL LISTED BELOW:

LIEUTENANT JOHN MAXEY STATE HIGHWAY PATROL 300 SOUTH NORWALK ROAD NORWALK, OHIO 44857 419-668-4087

LAW ENFORCEMENT OFFICERS 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 GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

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

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS. THEY MAY DO SO AT THEIR OWN EXPENSE.

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ALL PROJECTS INVOLVING JURISDICTIONAL WATERS OF THE UNITED STATES (STREAMS, RIVERS, NON-ISOLATED WETLANDS) AND/OR ISOLATED WETLANDS ARE SUBJECT TO REGULATION UNDER SECTION 404 AND 401 OF THE CLEAN WATER ACT, AND POSSIBLEY OHIO EPA ISOLATED WETLAND LAW. IT IS ANTICIPATED THAT NO IN-STREAM WORK, OR WORK UNDER THE STREAM'S ORDINARY HIGH WATER MARK (OHMM) WILL BE NEEDED. THEREFORE NO WATERWAY PERMITS MAVE BEEN GRANTED FOR THIS PROJECT AND NO IN-STREAM WORK IS ALLOWED.

SHOULD WORK (EITHER TEMPORARY OR PERMANENT) IN THE STREAM IS NEEDED; IT WILL REQUIRE A PERMIT AND AUTHORIZATION BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). THE CONTRACTOR SHALL NOT UTILIZE FILLS BELOW OHWM UNTIL SUCH ACTIVITY IS AUTHORIZED BY THE USACE. DETAILS OF THIS REQUIREMENT ARE DESCRIBED IN ODOT'S SUPPLEMENTAL SPECIFICATION 832.49.

USACE DEFINITION OF OHMM - THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANK; SHELVING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPHOPRIATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

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ITEM SPECIAL, MAILBOX SUPPORT SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF EXISTING NON-STANDARD MAILBOX SUPPORTS AND FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED HARDWARE IN ACCORDANCE WITH THE DETAILS SHOWN, AND ATTACHING AN OWNER SUPPLIED MAILBOX, AT LOCATIONS DETERMINED BY THE ENGINEER.

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

THE BOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO MAILBOXES MAY BE MOUNTED ON A SINGLE POST. [HARDWARE SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.]

WOOD POSTS SHALL BE NOMINAL 4 IN. x 4 IN. (\$4\$) OR 4½IN. DIAMETER ROUND, AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 IN. I.D., AND CONFORM TO AASHTO M 181.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH THE LOCAL POST MASTER AND NOTIFYING THE PROPERTY OWNERS PRIOR TO WORK.

GROUP MAILBOX SUPPORTS SHALL BE PLACED ON 3 FT. CENTERS AND THE TURNOUT LENGTHENED TO ACCOMMODATE THE GROUPING.

WHERE GUARDRAIL EXISTS, MAILBOXES AND THEIR SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL. SUPPORTS MUST STILL MEET THE BREAKAWAY

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE.

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, SINGLE PART A - S.R. 250
PART B - S.R. 61

N/A EACH N/A EACH

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, DOUBLE PART A - S.R. 250 PART B - S.R. 61

N/A EACH N/A EACH

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THE MAILBOX APPROACHES SHALL BE PAVED WITH 1.50" ITEM 442 SURFACE COURSE. THEY SHALL CONFORM AS MUCH AS PRACTICAL TO STANDARD DRAWING BP-4.1 OR AS DIRECTED BY THE ENGINEER.

GRADING SHALL BE PERFORMED IN THESE AREAS TO OBTAIN A BASE WHICH WILL ALLOW THE FINISHED GRADE TO BE FLUSH WITH ADJACENT PAVEMENT. A QUANTITY OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED FOR AREAS WHERE THE SHOULDER IS LOW PRIOR TO GRADING AND/OR LOW AREAS CAUSED BY THE REMOVAL OF UNSUITABLE MATERIAL. QUANTITIES TO PERFORM THIS WORK HAVE BEEN INCLUDED IN THE GENERAL SUMMARY AND ARE ESTIMATED AS FOLLOWS.

ITEM 209 - GRADING MAILBOX APPROACHES:

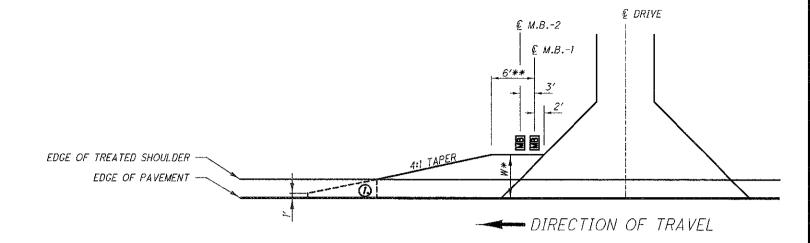
3 EACH

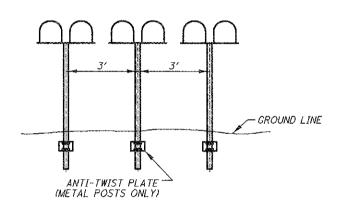
ITEM 617 - COMPACTED AGGREGATE S.R. 61

6 CU YD

LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED

ADDRESSES AND/OR LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED: NONE





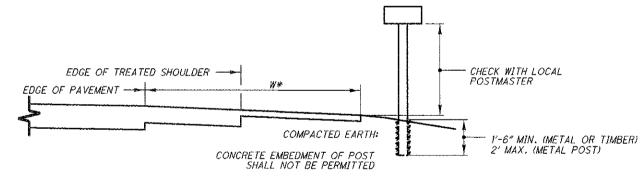
GROUP MAILBOX INSTALLATION

(1) END MAILBOX TURNOUT AT EDGE OF ASPHALT CONCRETE SHOULDER OR 1' FROM EDGE OF PAVEMENT IF TREATED SHOULDER IS AGGREGATE.

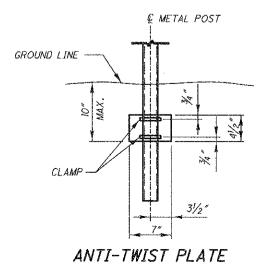
W* NOTES 1) WHERE EXISTING STANDARD MAILBOX POSTS ARE BEHIND GUARDRAIL AND ARE TO REMAIL AND ARE
TO REMAIL ING STANDARD MAILBOX POSTS ARE BEHIND GUARDRAIL AND ARE
TO REMAIN IN PLACE, TURNOUT WIDTH SHALL EXTEND TO FACE OF GUARDRAIL.
2) WHERE NO GUARDRAIL IS REQUIRED, TURNOUT WIDTH SHALL BE 6 FT MAXIMUM
OR TO FACE OF EXISTING STANDARD MAILBOX IF IT IS LESS THAN 6 FT.
3) IF THE MAILBOX SUPPORT IS SPECIFIED TO BE REMOVED AND REERECTED OR
REPLACED, WHERE GUARDRAIL IS REQUIRED, TURNOUT WIDTH SHALL EXTEND TO
FACE OF GUARDRAIL AND MAILBOX SHALL BE INSTALLED BEHIND THE GUARDRAIL. 4) IF THE MAILBOX SUPPORT IS SPECIFIED TO BE REMOVED AND REERECTED OR

REPLACED, WHERE NO GUARDRAIL IS REQUIRED, TURNOUT WIDTH SHALL BE 6 FT.

1) 6 FT FOR ONE MAILBOX SUPPORT, ADD 3 FT. FOR EACH ADDITIONAL MAILBOX



CROSS SECTION / ELEVATION VIEW



		SHE	EET NUI	MBER							PARTICIPATION			TTEM	ITEM	GRAND		DECERTATION	SEE
6	8	10	14	15	16	17			Fed/Local (NHS) 91/NHS/PV	100% Local 02/S<2/pv	Fed/State (NHS) 03/NHS/PV	Fed/Local (SR61) 04/S<2/PV	Fed/State(SR61) 05/S<2/PV	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SHEET NO.
	·····																	ROADWAY	
4			ļ	0,6	1.32	2.75				<u> </u>	0.6	1.34	2.73	209	60500	4.67	MILE	LINEAR GRADING	
-		3	<u> </u>	_							<u> </u>	3	<u></u>	209	80000	3	EACH	GRADING MAILBOX APPROACHES	
_			6	4	2				10		<u> </u>	2	<u> </u>	604	39500	12	EACH	MONUMENT BOX ADJUSTED TO GRADE	
-		6		25	55	111					25	55	117	617	10100	197		COMPACTED AGGREGATE	
╀		!	-	704	1568	3224					704	1591	3201	617	20000	5,496	SQ YD	SHOULDER PREPARATION	
+		!	 	 	-				-		 								
╁			 	 	-	- 			-				-	 				DRAINAGE	
		1	20	7	74	4	1	-	27			74	1 4	604	09000	105	EACH	CATCH BASIN ADJUSTED TO GRADE	
		1	100	34	61	4	1	1	134			61		604	34500	199	EACH	MANHOLE ADJUSTED TO GRADE	1
						1													
			<u> </u>																
		<u> </u>		1				Í										PAVEMENT	İ
1		1		1						494	<u> </u>			253	02600	494	CU YD	PAVEMENT REPAIR	
		.	<u> </u>	<u> </u>						168				253	02001	168	CU YD	PAVEMENT REPAIR, AS PER PLAN	5
1			35300	3665	73350				32063		6902	68544	4806	254	01600	112315		PAVEMENT PLANING, ASPHALT CONCRETE (1.00")	
ļ		_		l	9957	29212	2					12777	26392	254	01000	39169		PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	
+		-	26886	33134				-	39184		20836	 		254	01000	60020	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (3.25)	
1		 	674	200					700			800			p./na-			DITOUNG DI AUED GUATI OF	ļ
ł		 	574 4621	382 2943	833 3331	294 1168			726 5,728		230 1,836	860 3,444	267 1055	254 407	01600	2,083	SQ YD	PATCHING PLANED SURFACE	
t		 	899	1318	3331	1100	-	- 	1372		1,836 845	3,444	1000	407 407	20100 20000	12,063 2217	GALLON GALLON	TACK COAT, TRACKLESS TACK, SURFACE COURSE TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE	
t		1	1031	176	2036			 	1156		51	2,036		407	12000	3,243		FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B	-
١	• • • • • • • • • • • • • • • • • • • •	 	1	1	416	1214	1	1	1			533	1097	442	00201	1,630	CUYD	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN	
l		1	†	·	1	1							1001	77.	VVAVI	1,000	9015	AS THE TORONG TE CONTACT COOKSE, S.S. MINI, TITE A (MIS), AS FER FEAT	
T		1	936	1380	i -				1448		868			442	10000	2,316	CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	1
			1092	1611	1				1690		1013			442	20200	2,703	CUYD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448)	
_	1283									1283	;			442	90000	1,283	CU YD	ASPHALT CONCRETE, MISC.: ASPHALT GRINDINGS	
		ļ		<u> </u>	<u> </u>														
L			 		<u> </u>													WATER WORK	1
ŀ		·	50	25	71	5			75	<u> </u>		71	5	638	10800	151	EACH	VALVE BOX ADJUSTED TO GRADE	
- -		ļ			· · · · · · ·			- }	_		· · · · · · · · · · · · · · · · · · ·	,							
ŀ		<u> </u>		ļ	╂														
ł		!	-		1							ng						TRAFFIC CONTROL	
╁						-						85 85	167	621	00300	252	EACH	RPM REFLECTOR	21
ŀ		-			┿				A6			85	167	621	54000	252	EACH	RAISED PAVEMENT MARKER REMOVED	21
ł		 	-		 				25 0.68	 	3,11		2,49	632 642	26501 00100	25 6.28		DETECTOR LOOP, AS PER PLAN	19
ŀ		·		 	-				0,00		0,055		2,49	642	00100	6.28 0.55	·····	EDGE LINE, 4", TYPE 1	21
ŀ		·	-	 				- 	 		0,000			042	00154	0.55	MILE	LANE LINE, 6"	-
r		1	 	1	†				5,37	0,39	0.75	3.08	0.57	642	00300	10.16	MILE	CENTER LINE, TYPE 1	21
t					1	- 			4050		5990	2300	1478	644	00400	13818	FT	CHANNELIZING LINE, 8"	21
t		†	1	 	1		1		800	!	220	745	1410	644	00500	1765	FT	STOP LINE	21
l		1	1	1	1				2210		1	2800		644	00600	5010	FT	CROSSWALK LINE	21
t			1		į				100	1	200	900		644	00700	1200	FT	TRANSVERSE/DIAGONAL LINE	1 -
Ì					1														1
I									2					644	01000	2	EACH	RAILROAD SYMBOL MARKING	21
L					Î				2			1		644	01100	3	EACH	SCHOOL SYMBOL MARKING, 72"	1
Ш									2600			3400		644	01200	6000	FT	PARKING LOT STALL MARKING	1
L									132		29	66		644	01300	227	EACH	LANE ARROW	1
		<u> </u>	<u> </u>		1														
L		ļ	1	ļ	<u> </u>										 				
-			_	_	. 				_		<u> </u>							SEE SHEE 22 FOR STRUCTURE SUMMARY	L
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ŀ		.	 	-	 	-			<u> </u>									***	
ŀ		 	ļ						4	 					40400	42	F4011	MAINTENANCE OF TRAFFIC	1
┞		·	-		1				20			4 20	5	614	12460	13	EACH	WORK ZONE MARKING SIGN	
ŀ		<u> </u>	 	 -	1				8.62	!	3,52	3,4	0.64	614 614	13000 21500	40 16,18		ASPHALT CONCRETE FOR MAINTAINING TRAFFIC WORK ZONE CENTER LINE, CLASS II, 642 PAINT	8
		†	1	1		-		1	U.VL		3,34	V.4	5450	614	23200	10.16 5450	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	21
ŀ		1	1	1	1	-			950		70	645	9450 60	614	26200	1725		WORK ZONE STOP LINE, CLASS I, 642 PAINT	21 21
r		1	†	1	1		_		1					V17	AVEUU	1147		TTOTAL COME CITE COMO I, CALCANTI	1 4
ľ		1		1	 	 	1		50%			50%	!	614	11000	LUMP		MAINTAINING TRAFFIC	
İ		1	1	†	1				120			120		614	11110	240	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	1
I		1.	1	1	1	1	1		1.5			1.5		619	16000	3		FIELD OFFICE, TYPE A	1
I			1						50%			50%	ĺ	624	10000	LUMP		MOBILIZATION	1
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					LEN	I GTH				B.41 201 201 101	254	I mamarini	407	407	42			42	44		604	10.22.0.2.00	638				209	617	617
	ROUTE	TYPE		Point To Point	MILE	FEET	FEET AVG.	*TYPICAL	PAVEMENT AREA	PAVEMENT PLANING, ASPHALT CONCRETE (1.00")	PAVEMENT PLANING ASPHALT CONCRETE (3.25")	PATCHING PLANED SURFACE	TACK COAT, TRACKLESS TACK FOR SURFACE COURSE @ 0.08 GAL/SY	TACK COAT, TRACKLESS TACK FOR INTERM. COURSE @ 0.04 GAL/SY	FINE GI POLYMER CONC	ASPHALT	SUR	CRETE FACE SE, 12.5	ASPHALT C INTERM COURSE, 19 (0" MIN	EDIATE ADJUSTE OMM, (448) TO GRAD	D BASIN	BOX ADJUSTED	VALVE BOX ADJUSTED TO GRADE	SHO PRO	REGATE ULDER POSED IDTH	AGGREGATE SHOULDER AREA	LINEAR GRADING	COMPACTED AGGREGATE	SHOULD PREPARA
		-																						SL	SR	1		1.25 INCHES	-
			STRAIGHT L	INE MILEAGE					SQ YD	SQ.YD	SQ, YD	SQ.YD	GALLON	GALLON	INCH	CU.YD.	INCH	CUYD	INCH (AVG)	CU.YD. EACH	EACH	EACH	EACH	FI		SQYD	MILE	AVG. THICKNESS CU YD	SQ.YI
		<i>*</i>)										<u> </u>							interrotto)	CO.III.	2,1011	2,011	Exon			Ow.	111166	COTE	O. 11
₹	250	NHS	0.73	1.17	0,44	2323	36.0	1	9,292	9,292	0	93	743	0	1	258	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	1.17	1.22	0,05	264	48.0	1	1,408	1,408	0	14	113	0	1	39	G	0	0	0				0,0	0,0	0	0,00	0	0
		NHS	1.22	1.26	0.04	211	48.0	2	1,125	0	1,125	11	90	45	0	0	1.5	47	1.75	55				0.0	0.0	0	0.00	0	0
		NHS	1.26	1.46	0.20	1056	48.0	1	5,632	5,632	0	56	451	0	1	156	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	1.46	1.50	0.04	211	48.0	2	1,125	0	1,125	11	90	45	0	0	1.5	47	1.75	55				0.0	0.0	0	0.00	Đ	0
		NHS	1.50	1.71	0,21	1109	36.0	1	4,436	4,436	4,436	44	355	0	1	123	0	0	0	0				0.0	0.0	0	0.00	0	0
	SUSPEND	NHS	1.71	1.75	0.04	211			0	0	0	0	0	0	0	0	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	1.75	1.84	0,09	475	48,0	1	2,533	2,533	0	25	203	0	1	70	0	0	0	0				0,0	0,0	0	0,00	0	0
		NHS	1.84	1.88	0.04	211	48.0	2	1,125	0	1,125	11	90	45	0	0	1.5	47	1.75	55				0.0	0.0	Ð	0.00	0	0
1		NHS	1.88	1.91	0.03	158	48.0	1	843	843	0	8	67	0	1	23	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	1.91	2.08	0.17	898	36.0	2	3,592	0	3,592	36	287	144	0	0	1.5	150	1.75	175				0.0	0.0	0	0.00	0	0
		NHS	2.08	2.11	0.03	158	36.0	3	632	632	0	6	51	0	1	18	0	0	0	0				0.0	0,0	0	0.00	0	0
		NHS	2.11	2.15	0.04	211	30.0	4	703	0	703	7	56	28	0	0	1,5	29	1.75	34				0.0	0.0	0	0.00	0	0
		NHS	2.15	2.24	0.09	475	30.0	3	1,583	1,583	0	16	127	0	1	44	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	2.24	2.28	0.04	211	36.0	4	844	0	844	8	68	34	0	0	1.5	35	1.75	41				0.0	0.0	0	0.00	0	0
\perp		NHS	2.28	2.47	0.19	1003	36.0	3	4,012	4,012	0	40	321	0	1	111	0	0	0	0				0.0	0.0	0	0.00	0	0
		NHS	2.47	2.51	0.04	211	40.0	2	938	0	938	9	75	38	0	0	1.5	39	1.75	46				0,0	0.0	0	0.00	0	0
1		NHS	2.51	2.56	0.05	264	34.0	2	997	0	997	10	80	40	0	0	1.5	42	1.75	48				0.0	0.0	0	0.00	0	0
		NHS	2.56	2.95	0.39	2059	34.0	2	7,778	0	7,778	78	622	311	0	0	1.5	324	1.75	378				0.0	0.0	0	0.00	0	0
_		NHS	2.95	2.98	0,03	158	40,0	1	702	702	0	7	56	0	1	20	0	0	0	0				0,0	0,0	0	0.00	0	0
		NHS	2.98	3.02	0.04	211	40.0	2	938	0	938	9	75	38	0	0	1.5	39	1.75	46				0.0	0.0	0	0.00	0	0
1		NHS	3.02	3.14	0.12	634	40.0	1	2,818	2,818	0	28	225	0	1	78	0	0	0	0				0.0	0.0	0	0.00	0	0
_		NHS	3.14	3.20	0.06	317	40.0	2	1,409	0	1,409	14	113	56	0	0	1.5	59	1.75	68				0,0	0.0	0	0.00	0	0
1		NHS	3,20	3.26	0.06	317	40,0	1	1,409	1,409	0	14	113	0	1	39	0	0	0	0				0.0	0.0	0	0.00	0	0
4		NHS	3,26	3,34	0.08	422	40.0	2	1,876	0	1,876	19	150	75	1	52	1.5	78	1.75	91		ļ		0.0	0.0	0	0.00	0	0
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- 1	EXTRA ARE	A FOR INTE	RSECTIONS	·			-		0	0		0	0	0			0	0	0	0		ļ							
T	EXTRA ARE		 				-		0	0	ļ	0	0	0			0	0	0	0		-			-				
T			REGATE DRIVE	*************		,	-		0				0	0			0	0	0	0		-		-	 	0		0	0
	EXTRA ARE	A FOR EX.	& PR. MAILBOX	APPROACHES	1	T	-		0	0		0	0	0			0	0	0.00	0									
+	TOT	ALS		 	2.61	13781				35,300	26,886	574	4,621	899		1,031		936		1,092 100	20	6	50		1		0.00	^	<u> </u>
+		* 100'0		 ;	2.01	13101	+			99,000	20,000	314	4,021	935		1,001	 	330	 	1,004 100		1 0	70			·	0,00	0	0

*-FOR TYPICALS, SEE SHEET 18 407 407 424 442 442 604 638 LENGTH 209 617 PAVEMENT PAVEMENT PATCHING TACK COAT, TACK COAT, FINE GRADED ASPHALT ASPHALT CONCRETE MAHHOLE CATCH MONUMENT VALVE BOX LOG POINT AGGREGATE AGGREGATE LINEAR PAVEMENT COMPACTED SHOULDER WIDTH TRACKLESS TRACKLESS POLYMER ASPHALT CONCRETE INTERMEDIATE ADJUSTED BASIN BOX ADJUSTED SHOULDER SHOULDER GRADING AGGREGATE PREPARATION ASPHALT ASPHALT TACK FOR TACK FOR SURFACE TO CONCRETE COURSE, 19 MM. TO GRADE ADJUSTED ADJUSTED. TO GRADE ROUTE TYPE FEET PROPOSED AREA CONCRETE CONCRETE SURFACE Interm. COURSE, 12.5 TYPE A (448) TO GRADE TO GRADE WIDTH LOG POINT (1.00") (3.25°) COURCE@ COURSE @ FEET AVG. MM, TYPE A (446) (O" MINIMUM) MILE 0.08 GAL/SY 0.04 GAL/SY 1.25 INCHES SL. AVG. THICKNESS CU. YD INCH CU.YD. INCH (AVG) CU.YD. STRAIGHT LINE MILEAGE SQ YD SQ.YD SQ. YD SQ.YD GALLON GALLON INCH EACH EACH EACH EACH FT FT SQ YD CU YD SQ.YD 250 NHS 3,34 40.0 3.47 0.13 686 3,049 3,049 30 244 122 1,5 127 1.75 148 0.0 0.0 0,00 NHS 35.0 3.47 3.53 0.06 317 3 1,233 1,233 12 0.0 0.0 0 0.00 0 NHS 3.53 3,66 0.13 686 35.0 2,668 2,668 27 74 1.5 111 213 1.75 130 0.0 0.0 0.00 suspend NHS 3.66 3.90 0.24 1267 30.0 4,223 0.0 0.0 0 0.00 0 NHS 3.90 4,45 32.0 0.55 2904 10,325 10,325 413 103 826 1.5 430 1.75 0.0 0.0 0.00 NHS 4.45 4.52 0.07 370 35.0 1,439 1.5 1,439 115 1.75 0.0 0.0 0 0.00 0 NHS 4.52 4:39 0.17 898 4,390 44.0 4,390 44 351 176 1.5 183 1.75 213 0.0 0.0 0.00 Û Ð NHS 4.69 4.74 0.05 264 44.0 1,291 103 0 0.0 0.0 0 0.00 0 NHS 4.74 4.77 0.03 158 65,0 1,141 1,141 11 32 0.0 0.0 0.00 0 NHS 4.77 686 65.0 4.90 0.13 4.954 1.5 **Z** 4,954 50 396 198 206 1.75 241 2.0 2.0 305 0.26 305 11 suspend NHS 4.90 4.94 0.04 211 65,0 1,524 15 0 0 C 6 0.0 0.0 0.00 0 EM NHS 4.94 5.05 581 65.0 4,196 4,196 336 168 1.5 175 1.75 204 2.0 2.0 0.22 258 > NHS 317 5.05 5.11 0.06 60.0 2,113 2,113 21 169 85 1.5 88 1.75 103 2.0 2.0 0.12 141 ⋖ ₾ 0 0 S 2 EXTRA AREA FOR INTERSECTIONS HUR EXTRA AREA FOR PAVED DRIVES 0 0 0 0 0 EXTRA AREA FOR AGGREGATE DRIVES 0 0 0 0 EXTRA AREA FOR EX. & PR. MAILBOX APPROACHES 0 0 Û 0 0 0.00 0 TOTALS 1.77 9346 33,134 382 1,318 2,943 176 1,380 1,611 34 7 25 0.60 704 25

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2	ROUTE	TYPE		POINT	LEN	IGTH	WIDTH	i i	PAVEMENT AREA	PAVEMENT PLANING, ASPHALT CONCRETE	PAVEMENT PLANING ASPHALT CONCRETE	PATCHING PLANED SURFACE	TACK COAT, TRACKLESS TACK, SURFACE	FINE O	GRADED YMER PHALT CRETE	ASF CON SUF COURS	PHALT CRETE RFACE E, 9.5 MM,	MANHOLE ADJUSTED TO GRADE	CATCH BASIN	MONUMENT BOX ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE	SHO PRO	REGATE DULDER DPOSED /IDTH	AGGREGATE SHOULDER AREA	LINEAR GRADING	COMPACTED AGGREGATE	SHOULDE PREPARAT
NOOS .			LOG	POINT	MILE	FEET	AVG.	*TYPICAL		(1.50*)	(1.00")		COURSE @ 0.08 GAL/SY				(446), AS PLAN						· 1 ····			1,25 INCHES	
													ļ	ļ		1						SL	SR			AVG, THICKNESS	
-			STRAIGHT	LINE MILEAGE					SQ YD	SQ.YD	SQ.YD	SQ.YD	GALLON	INCH	CU, YD,	INCH	CU.YD.	EACH	EACH	EACH	EACH	FT	FT	SQ YD	MILE	CUYD	SQ.YD
-			<u> </u>									· · · · · · · · · · · · · · · · · · ·															
JR	61		16.95	17.14	0.19	1003	24.5	5	2,730	2,730		27	109			1.5	114	·				2.0	2.0	446	0,38	15	446
			17.14	17.15	0.01	53	57.0	5	335	335	·	3	13	-		1,5	14					2.0	2.0	24	0.02	1	24
			17.15	17.33	0.18	950	60.7	5	6,407	6,407		64	256	ļ	<u> </u>	1.5	267					2,0	2.0	422	0.36	15	422
_			17.33	17.34	0.01	53	55.8	5	329	329		3	13	-		1.5	14					2.0	2,0	24	0.02	1	24
_	curb		17.34	17.37	0.03	158	60.2	1	1,057		1,057	11	42	1	29				1			0.0	0.0	0	0.00	0	0
	curb		17.37	17.46	0.09	475	46.7	1	2,465		2,465	25	99	1	68	-						0.0	0.0	0	0.00	0	0
	curb		17.46	17.59	0.13	686	33.6	1	2,561		2,561	26	102	1	71							0.0	0.0	0	0.00	0	0
	curb		17.59	17.65	0.06	317	33.6	1	1,183		1,183	12	47	11	33	-						0.0	0.0	0	0.00	0	0
	curb		17.65	17.85	0.20	1056	33.3	11	3,907		3,907	39	156	1	109							0.0	0.0	0	0.00	0	0
	curb		17.85	18.28	0.43	2270	35.3	1	8,903		8,903	89	356	1	247							0.0	0.0	0	0.00	0	0
_	curb		18.28	18.38	0.10	528	35.4	1	2,077		2,077	21	83	1	58	ļ						0.0	0.0	0	0.00	0	0
	curb		18.38	18.49	0.11	581	37.7	1	2,434		2,434	24	97	1	68	-			<u> </u>			0.0	0.0	0	0,00	0	0
	curb		18.49	18.56	0.07	370	37.6	1	1,546		1,546	15	62	1	43	ļ						0.0	0.0	0	0.00	0	0
	curb	ļ	18.56	18.68	0.12	634	63.0	1	4,438	,	4,438	44	178	11	123	ļ						0.0	0.0	0	0.00	0	0
	curb		18.68	18.98	0.30	1584	63.5	1	11,176		11,176	112	447	1	310	ļ						0.0	0.0	0	0.00	0	0
	curb	ļ	18.98	19.04	0.06	317	53.9	1	1,898		1,898	19	76	11	53							0.0	0.0	0	0.00	0	0
	curb	ļ	19.04	19.10	0.06	317	53.2	1	1,874		1,874	19	75	1	52	ļ						0.0	0.0	0	0.00	0	0
_	curb	ļ	19.10	19.39	0.29	1531	39.4	1	6,702		6,702	67	268	1	186							0.0	0.0	0	0.00	0	0
	curb		19.39	19,44	0.05	264	37.7	1	1,106		1,106	11	44	11	31							0.0	0.0	0	0.00	0	0
	curb		19.44	19.50	0.06	317	34.0	11	1,198		1,198	12	48	11	33					-		0.0	0.0	0	0.00	0	0
_	curb		19.50	19.54	0.04	211	30.8	1	722	-	722	7	29	1	20	-						0.0	0.0	0	0.00	0	0
_	suspend		19.54	19,55	0.01	53	30.8		181		181	2	7	1	5	-						0.0	0.0	0	0.00	0	0
	bridge	ļ	19.55	19.55	0.00	0	30.8		0		0	0	0	0	0	<u> </u>				1		0.0	0.0	0	0.00	0	0
-	suspend	ļ	19.55	19.78	0.23	1214	30.8		4,155		4,155	42	166	1	115							0.0	0.0	0	0.00	0	0
\dashv	curb	 	19.78	20.11	0.33	1742	29.5	1	5,710	ļ	5,710	57	228	1	159							0.0	0.0	0	0.00	0	0
_	suspend	ļ	20.11	20.29	0.18	950	30.8		3,251		3,251	33	130	1	90							0.0	0.0	0	0.00	0	0
			20.29	20.33	0.04	211	29.5	5	692		692	7	28	11	19							2.0	2.0	94	0.08	3	94
	·	<u> </u>	20.33	20.56	0.23	1214	30.5	5	4,114		4,114	41	165	11	114	 						2.0	2.0	540	0.46	19	540
\dashv			<u></u>	<u> </u>	<u> </u>			ļ		-		-	ļ		 		1.		ļ				-				
[6	EXTRA ARE	A FOR INTE	RSECTIONS						0	0		0	0			1.5	0										
	EXTRA ARE	A FOR PAVE	ED DRIVES						126	126		1	5	-	ļ	1.5	5										-
	EXTRA ARE	EA FOR AGG	REGATE DRIV	S					18				1 1			1.5	1		<u> </u>				_	18		11	18
!	EXTRA ARE	EA FOR EX. 8	PR. MAILBOX	APPROACHES	т	1			30	30		0	1			1.5	1										
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+																ļ											
					 								-			-											
	TOTALS	s			3.61	19061	- 			9,957	73,350	833	3,331		2,036	†	416	61	74	2	71			1,568	1.32	55	1,568
			 			+		 	 	+				+	+ -,		 	 	 	 	h		-+	+		<u> </u>	· · · · · · · · · · · · · · · · · · ·

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					LEN	VGTH					254		407	4	42		604		638				209	617	617
	ROUTE	TYPE		POINT TO POINT	MILE	FEET	WIDTH FEET AVG.	*TYPICAL	PAVEMENT AREA	PAVEMENT PLANING, ASPHALT CONCRETE (1.50")		PATCHING PLANED SURFACE	TACK COAT, TRACKLESS TACK, SURFACE COURSE @ 0.04 GAL/SY	CONG SUR COURSE TYPE A	HALT CRETE FACE E, 9.5 MM, (446), AS PLAN	MANHOLE ADJUSTED TO GRADE	CATCH BASIN ADJUSTED TO GRADE	MONUMENT BOX ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE	SHOU PROP	EGATE JLDER POSED DTH	AGGREGATE SHOULDER AREA	LINEAR GRADING	COMPACTED AGGREGATE	SHOULDEF PREPARATIO
					ļ			_					0.01 0.12.01					÷						1.25 INCHES	
																				SL	SR			AVG, THICKNESS	
			STRAIGHT L	INE MILEAGE					SQYD	SQ.YD		SQ.YD	GALLON	!NCH	CU.YD.	EACH	EACH	EACH	EACH	FT	FT	SQYD	MILE	CU YD	SQ.YD
₹	SR 61C														*******										
	EB SPUR	RURAL	2.00	0.02	0.02	106	30.7	5	362	362		4	14	1.5	15					0.0	0.0	0	0.00	0	0
	EB SPUR	RURAL	0.02	0.11	0.09	475	33.7	5	1,779	1,779		18	71	1.5	74					2.0	2.0	211	0.18	7	211
	EB SPUR	RURAL	0.11	0.31	0.20	1056	35.1	5	4,118	4,118	,,	41	165	1.5	172					2.0	2.0	469	0.40	16	469
\top	EB SPUR	RURAL	0.31	0.40	0.09	475	35.1	5	1,853	1,853		19	74	1.5	77					2.0	2.0	211	0.40	7 7	211
	EB SPUR	RURAL	9.40	0.49	0.09	496	35.1	5	1,934	1,934		19	77	1.5	81					2.0	2.0	220	0.19	8	220
\top	EB SPUR	RURAL	0.49	0.57	0.08	422	32.8	5	1,538	1,538		15	62	1.5	64					0.0	0.0	0	0.00	0	0
	EB SPUR	RURAL	9.57	0.58	0.01	53	32.8	5	193	193		2	8	1.5	8					0.0	0.0	0	0.00	0	-
\top	SPUR	URBAN),58	0.59	0.01	53	65.0	5	383	383	,	4	15	1.5	16					2.0	2.0	24	0.02	1	24
\top	SPUR	BRIDGE	0.59	0.60	0.01	53	00.0	 	- 303	303		-7	10	1.0	10					2.0	2.0	24	0.02	<u> </u>	24
	SPUR	URBAN	3.60	0,63	0.03	158	65.0	5	1,141	1,141		11	46	1.5	48					2.0	2.0	70	0.06	2	70
+	SPUR	URBAN	2.63	0.72	0.09	475	65.0	5	3,431	3,431		34	137	1.5	143					2.0	2.0	211	0.08	7	1
\top	WB SPUR	RURAL	0.22	0.28	0.06	317	24.6	5	866	866		9	35	1.5	36					2.0				5	211
+	WB SPUR	RURAL	0.28	0.48	0.20	1056	23.5	5	2,757	2,757		28	110	1.5	115					2.0	2.0	141 469	0.12	16	141 469
+	WB SPUR	RURAL	3,48	0.49	0.01	53	27.3	5	161	161		2	6	1.5	7					2.0	2.0	24	0.40	1	24
+	WB SPUR	RURAL	3,49	0.58	0.09	475	31.5	5	1,663	1,663		17	67	1.5	69					0.0	0.0	0	0.00	0	0
+	CONNECTOR	RURAL	0,00	0.12	0.12	634	23.8	5	1,677	1,677		17	67	1.5	70					2.0	2.0	282	0.24	10	282
+	CONNECTOR	RURAL	9.12	0.16	0.04	211	20,8	5	488	488		5	20	1.5	20					2.0	2.0	94	0.24	3	94
_	TOLEDO RD	LOCAL	9.00	0.34	0.34	1795	24.0	5	4,787	4,787		48	191	1.5	199					2.0	2.0	798	0.68	28	798
_		200712		0.0.		1100	1		1,707	1,101				1.0	100			* · · · · · · · · · · · · · · · · · · ·		2.0	2.0	190	0.00	20	730
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F	XTRA AREA F	OR INTERSEC	TIONS			_1	<u> </u>		0	0		0	0	0	0										
	XTRA AREA F							<u> </u>	81	81		1	3	0	0										
	XTRA AREA F	***************************************							0		 	 	0	0	0						 	0		0	0
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1	TOTALS				1.58	8364				29,212		294	1,168		1,214	4	4		5	 	<u> </u>	3,224	0.75	444	0.004
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PULL BOX SEE SCD TC-82.10 FOR ADDITIONAL DETAILS Z

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PULL BOX SEE SCD TC-82.10 FOR ADDITIONAL DETAILS

TYPE F (ANGULAR DESIGN DETECTION)

D PULL BOX SEE SCD TC-82.10 FOR ADDITIONAL DETAILS

ITEM 632, DETECTOR LOOP, AS PER PLAN

AN ESTIMATED QUANTITY OF 632 DETECTOR LOOP, AS PER PLAN HAS BEEN PROVIDED WHEN WIRE IS CUT, BROKEN OR DESTROYED DUE TO PAVEMENT PLANING, PAVEMENT REPAIR OR BUTT JOINT OPERATIONS. IT IS IMPERATIVE THAT REPLACEMENT OF LOOP DETECTORS BE INSTALLED AND FULLY FUNCTIONAL IN THE SHORTEST POSSIBLE TIME. THE CONTRACTOR SHALL HAVE REPLACEMENT LOOP DETECTORS INSTALLED AND FULLY FUNCTIONAL WITHIN 7 CALENDAR DAYS OF DESTRUCTION OF THE ORIGINAL LOOP.

THE CONTRACTOR SHALL NOTIFY DOUG HICKEY, DISTRICT 3 TRAFFIC DEPARTMENT, (PHONE 419-207-7184) 5 WORKING DAYS IN ADVANCE OF ANY PLANING OPERATIONS OR PAVEMENT REPAIR WORK THAT WILL DAMAGE DETECTOR LOOP INSTALLATIONS. THIS NOTIFICATION IS NEEDED FOR DISTRICT 3 TO SCHEDULE TEMPORARY SIGNAL TIMING MODIFICATIONS FOR THE TIME PERIOD WHEN THE DETECTOR LOOPS ARE OUT OF OPERATION. THE CONTRACTOR SHALL THEN RENOTIFY MR. HICKEY WITHIN 2 WORKING DAYS AFTER THE DAMAGED DETECTOR LOOPS ARE REPLACED SO THAT HE CAN RESCHEDULE DISTRICT CREWS TO RESTORE SIGNAL TIMINGS TO THE ORIGINAL SETTINGS.

FAILURE TO COMPLY WITH THE ABOVE STATED REQUIREMENTS WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES ACCORDING TO SECTION 108.07 OF THE CMS FOR EACH CALENDAR DAY BEYOND THE SPECIFIED LIMIT.

THE NEW LOOP DETECTORS SHALL BE PLACED AFTER THE PLANING AND PAVEMENT REPAIR OPERATIONS ARE COMPLETED WITHIN THE LOOP DETECTOR AREAS. THE LOOP DETECTORS SHALL NOT BE CUT INTO THE SURFACE COURSE.

NEW LOOP DETECTORS SHALL BE PLACED AT THE SAME LOCATIONS AND BE THE SAME SIZE AND TYPE AS THE EXISTING, OR AS DIRECTED BY THE ENGINEER. THE LOOP DETECTOR WIRE SHALL BE REPLACED TO THE PULL BOX OR POLE, WHICHEVER IS APPLICABLE, UNDER ITEM 632 AND TC-82.10.

THIS WORK SHALL INCLUDE THE POURED EPOXY INSULATED SPLICE(S) REQUIRED TO CONNECT THE LOOP DETECTOR WIRE TO EXISTING LEAD-IN CABLE AT THE PULL BOX OR POLE. THE SPLICES SHALL BE IN ACCORDANCE WITH SECTION 725.15 OF THE CMS. PAYMENT SHALL BE MADE PER EACH LOOP DETECTOR CONNECTED TO THE LEAD-IN CABLE.

THE CONTRACTOR WILL BE PROVIDED WITH DETAILED PLANS AT THE PRE CONSTRUCTION MEETING SHOWING DETECTOR LOOP PLACEMENTS. A TABLE SHOWING DIMENSIONS AND LOCATIONS IS PROVIDED FOR THE PURPOSE OF ESTIMATING.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 632 DETECTOR LOOP, AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY

ITEM 632 DETECTOR LOOP, AS PER PLAN 22 EACH

A	19	6	6			
 E	24	6	30			TYPE B
E	40	6	30			
A	12	6	6			
 E	76	6	30			
 E	32	6	30			
 	40		70			
 E	12	6	30	ļ		TYPE C
E	30	6	60			
A	6	6	6			
A	11	6	6			
 E	21	6	30			
E	23	6	30			
E	28	6	30			
 Ε	80	6	30			TYPE D
			1			1 11 5 5

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THE INTERSECTIONS INVOLVED ARE AS FOLLOWS:

CROSS ROAD

REPUBLIC

REPUBLIC

REPUBLIC

REPUBLIC

GALLUP

GALLUP

GALLUP

GALLUP

CLINE

CLINE

MILAN / LEAGUE (ST/RT)

MILAN / LEAGUE (ST/RT)

LEAGUE / WHITTLESEY (LT)

LEAGUE / WHITTLESEY (RT)

LEAGUE / WHITTLESEY (ST)

LEAGUE / WHITTLESEY (LT)

GIANT EAGLE

GIANT EAGLE

EXECUTIVE DRIVE

EXECUTIVE DRIVE

SHADY LANE (LT)

SHADY LANE (LT)

FISHER TITUS DRIVE (LT)

MILAN / LEAGUE (LT)

MILAN / LEAGUE (LT)

TYPE

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1.82

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1.88

1.96

1.96

1.99

2.50

2.51

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2.53

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2.96

2.96

3.12

4.52

4.58

4.60

USR 250 2.95

USR 250 3.10

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USR 250 4.76

USR 250

DIRECTION

SB

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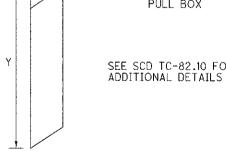
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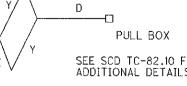
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TYPE D
(QUADRUPOLE)

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TYPE E (POWERHEAD)





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			ž.	ES	E,	INE,	IZING	ц		LINE		CENTER					(WHITE)		UXILIARY	MARKIN	SCHO SYMI	DOL BOL		L	ANE ARE	ROW			KING
ROUTE	COUNTY		SIATION	HIGHWAY MILES	WORK ZONE LANE LINE, CLASS I, 642 PAINT	WORK ZONE CENTER I CLASS II, 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	TOTAL (PAY QUANTITY) (WHITE)	TOTAL (PAY QUANTITY) (YELLOW)	LANE LINE	SOLID LINE EQUIVALENT	TOTAL (PAY QUANTITY)	CHANNELIZING LINE	34"	CROSSWALK LINE	TRANSVERSE/	TRANSVERSE/ P. DIAGONAL LINE (YELLOW)	ISLAND MARKING	RAILROAD SYMBOL MARKING	72 INCH MA	96 INCH	PARKING LOT STALL MARKING	LEFT	RIGHT	THROUGH		HANDIC/	
R 61	HURON	FROM 16.95	TO 17.15	MILE 0,2	MILE	MILE 0,2	FT	FT	MILE 0.4	MILE	MILE 0.2	MILE	MILE 0.2	FT	FT 40	FT	FT	FT	SQ FT	EACH	EAG	CH	FT		EACH		F1	EACI	I EACH
		17.15	15.50	0.35		0.35			0.7		0.35		0.35					300						4			土_		
	1	17.50	17.95	0.45		0.47		400				-	0.47	200	400	220	<u> </u>	300						4	<u> </u>				
		17.95 18.46	18.46 18.82	0.51 0.36		0.53 0.38		100 160					0.53	200 560	100 160	200 1,000		300					1,500	13	2	+	+	-	1
		18.82	19.16	0.34		0.34		230					0.34	1,120	230	1,000					1		1,900	23	3		1		
		19.16	19.52	0.36		0.34		30					0.34	220	30										2				
		19.52 19.90	19.90 20,27	0.38 0.37		0,36 0.38		50 50					0.36 0.38		50 50	500 100													
	1	20.27	20.56	0.29		0.05		25	0.1				0.05		25	100							·						
R 250	HURON	0.73	1.16	0.43		1.6							0.8	200										11					
	-	1.16 1.58	1.58 1.99	0.42 0.41		1.6 1.1	<u> </u>	60 200			ļ	 	0,8 0.56	180 830	60 200		 							9 16	9 5				
	1	1,99	2.41	0.41	 	1.4	<u> </u>	200					0.72	830	200		 					·- · · · · · · · · · · · · · · · · · ·		15	6				
		2.41	2.77	0.36		0.90		100					0.47	600	100						1			11	3				
	1	2.77 3.16	3.16 3.62	0,39		0.86		200 200					0.43 0.42	910	200 200	500		100			1		0.000	26	3	_			-
		3.62	3.6z 4.11	0.46 0.49		0.84 0.94		40					0.42	700	40	1,000 160	 						2,200	31	 			-	
		4.11	4.60	0.49		0.98		150					0.49	340	150	300	1	200						2	3				
		4.60	5.04	0,44		1.12	5,450	70	1.12				0.56	5,450	70	250								12	10				
SR 61C	HURON	5.04 0.00	5.11 0.72	0.07 0.72	<u> </u>	0.80 0.64		60	0.80 3.16		 	-	0.40 0.64	1,478	60		}						400						
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TOTAL	LS TO GENERA	AL SUMMA	ARY	8,71	0,00	16.18	5,450	1,725	6.28	0.00	0.55	0.000	10.16	13,818	1,765	5,010	0	1,200	0	0	3	0	6,000	181	46	0 (0 0	0	0
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	HURON	17.00	17.15	1 & 9 1 & 9	EACH 63	EACH 63		WOTTON 24	₹ 23	YELLO		STOP APPRO						12 13		TWO LAI	Y LEFT T	TURN LA		.,					
SR 61	HURON HURON			1&9 1&9 1&1	EACH	EACH	EACH	24 11 27	Š	Бер Бер		STOP APPRO MULTILANE 61 SPUR						12		TWO LA	Y LEFT T NE BRIDG	TURN LÆ							
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0	EACH 63 22 167	EACH 16	11	23 11	VELLO:		MULTILANE						12 13 14 15		TWO LAI TWO WA ONE LAN HORIZON HORIZON	Y LEFT T NE BRIDG NTAL CUI NTAL CUI	TURN LA BE RVE RVE AL	NE						
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SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0	EACH 63 22 167 0 0	EACH 16	11	23 11	OTTAL		MULTILANE						12 13 14 15 16 17		TWO LAI TWO WA ONE LAM HORIZON HORIZON STOP AF	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT	TURN LA BE RVE RVE AL I ALT.	NE T.						
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17		TWO LAI TWO WA ONE LAM HORIZON HORIZON STOP AF	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT	TURN LA BE RVE RVE AL I ALT.	NE T.	N	IOTES				
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAM HORIZON HORIZON STOP AF FIRE HYI CENTER	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT LINE AT	CURN LA GE RVE RVE AL' 1 ALT. 80 FT. 1	T.						
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAM HORIZON HORIZON STOP AF FIRE HYI CENTER	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT LINE AT	CURN LA GE RVE RVE AL' 1 ALT. 80 FT. 1	NE T.			PING.			
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAM HORIZON HORIZON STOP AF FIRE HYI CENTER	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT LINE AT	CURN LA GE RVE RVE AL' 1 ALT. 80 FT. 1	T.			PING.			
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAM HORIZON STOP AP FIRE HYI CENTER	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT LINE AT	TURN LA SE RVE RVE AL 1 ALT. 80 FT. 1	T.	ANE WID	TH STRIP		SHALL E	SE TYPE 1	
SR 61 SR 61C		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAM HORIZON STOP AP FIRE HYI CENTER	Y LEFT T NE BRIDG NTAL CUI NTAL CUI PPROACH DRANT LINE AT	TURN LA SE RVE RVE AL 1 ALT. 80 FT. 1	T. TYP. NS FOR L	ANE WID	TH STRIP		SHALL E	SE TYPE 1	
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAIT TWO WAS ONE LAN HORIZON STOP AFFIRE HYS CENTER 1) SEE T 2) FOR A 3) WORK	Y LEFT TO BE BRIDGE NTAL CUI NTAL CUI PROACHDRANT LINE AT SYPICAL SELL WORLD COME SELL WORLD C	TURN LASE RVE RVE AL' HALT. 80 FT. 1	T. TYP. NS FOR LI MARKING	ANE WID	TH STRIP 642 PAINT	T USED :			
SR 61		17.00 17.15	17.15 17.32	1 & 9	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 63 22 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EACH 16	11	23 11	62 62		MULTILANE						12 13 14 15 16 17	P	TWO LAI TWO WA ONE LAN HORIZON STOP AF FIRE HYI CENTER 1) SEE T	Y LEFT TO THE BRIDGE THAT CUIT PROACH DRANT LINE AT THE LINE AT TH	TURN LASE RVE RVE ALT. 80 FT. 1 SECTION K ZONE	T. TYP. MARKING MES SHALLONS	ANE WID GS, THE (L BE INS	TH STRIP 642 PAINT TALLED	T USED :	FOLLOW	/ING LOC	

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HUR-61-1856 SFN 3902048 (80% FEDERAL / 20% STATE) PLAN SPLIT 05/S<2/PV

EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
11301	2.9	מז אט		WELEVEUTE 24EE!
34401	2.9			2
10300	124			2
13600	171			
31000	74			
21200	0.04			
22200	0.03			
	11301 34401 10300 13800 31000 21200	11301 2.9 34401 2.9 10300 124 13600 171 31000 74 21200 0.04	11301 2.9 CU YD 34401 2.9 CU YD 10300 124 SO YD 13600 171 SO FT 31000 74 FT 21200 0.04 MILE	1301 2.9 CU YD PORTIONS OF STRUCTURES REMOVED, AS PER PLAN

HUR-61-1955 SFN 3902072 (80% FEDERAL / 20% STATE) PLAN SPLIT 05/S<2/PV

ITEM	EXTENSION	QUANTITY	UNIT		
				DESCRIPTION	REFERENCE SHEET
512	10100	47	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	31	SO YO	SEALING CONCRETE BRIDGE DECKS WITH HAWAN RESIN	
512	74000	47	SO YD	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	

HUR-61C-0060 SFN 3902250 (80% FEDERAL / 20% STATE) PLAN SPLIT 05/S<2/PV

ITEM	EXTENSION	OUANTITY	TINU	DESCRIPTION	REFERENCE SHEET
512	10300	565	SO YO	SEALING CONCRETE BRIDGE DECKS WITH HAMBIM RESIN	Engine of E
				SENCING CONDUCTS CONDUCT DELVZ MILLI MIRIN NEZIM	

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EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND, OHIO,

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 & 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003-2007 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DECK AND SIDEWALK PROTECTION METHOD

HMWM RESIN

<u>Parapet, fascia beam, wingwall and</u> ABUTMENT PROTECTION METHOD

EPOXY-URETHANE SEALER

ITEM 202. PORTIONS OF STRUCTURE REMOVED. AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. PRIOR TO CONCRETE PLACEMENT. ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 511. CLASS S CONCRETE. SUPERSTRUCTURE. AS PER PLAN (REPAIR)

EACH ITEM SHALL BE USED AT THE LOCATIONS INDICATED IN THE PLANS.

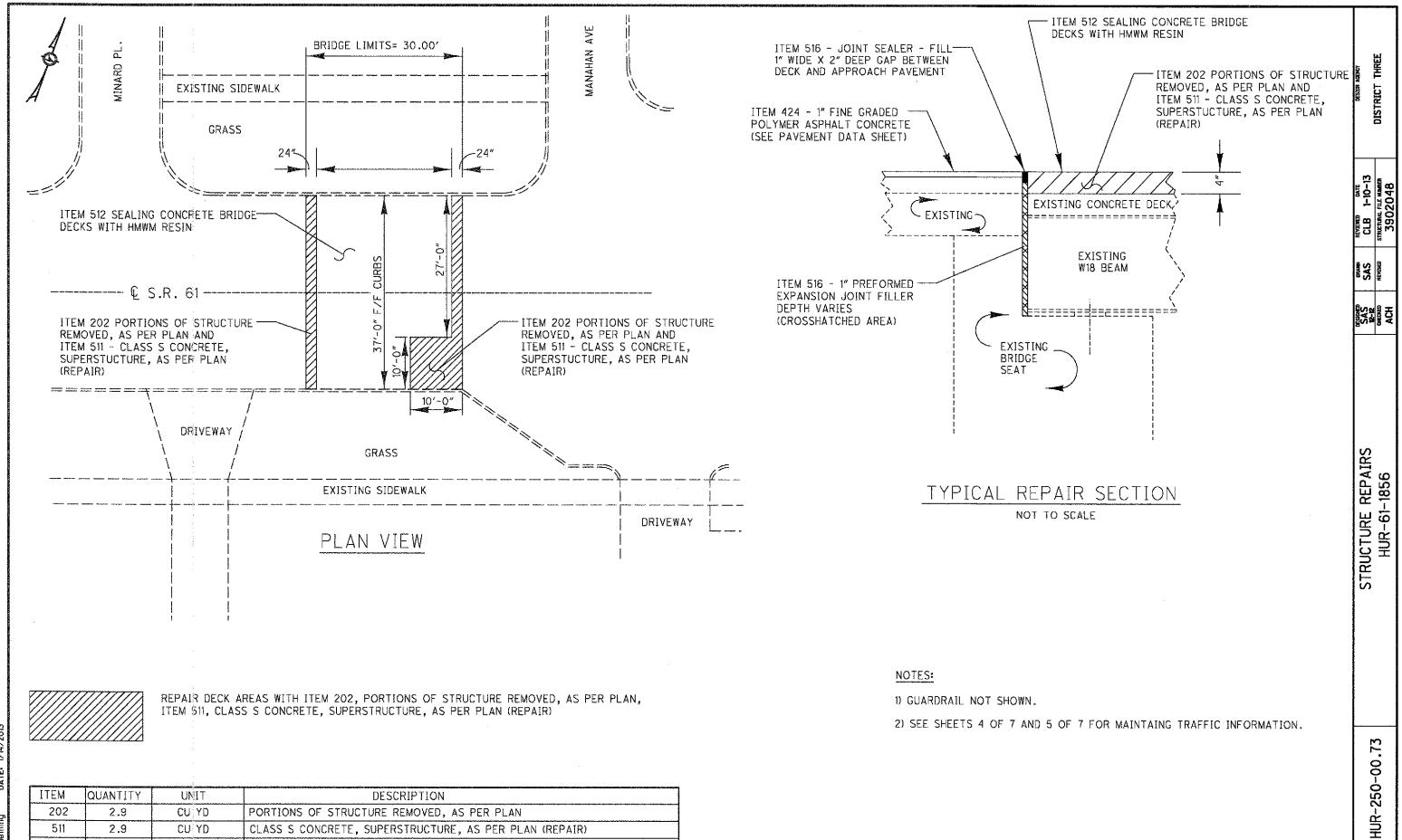
THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR EACH OF THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

AND

INFORMATION

ODOT DISTI



1856 bridge.dgn ojects@82358 ing DaTF:

512

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516

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171

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ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET, SHEET NO. 1 OF 7

JOINT SEALER

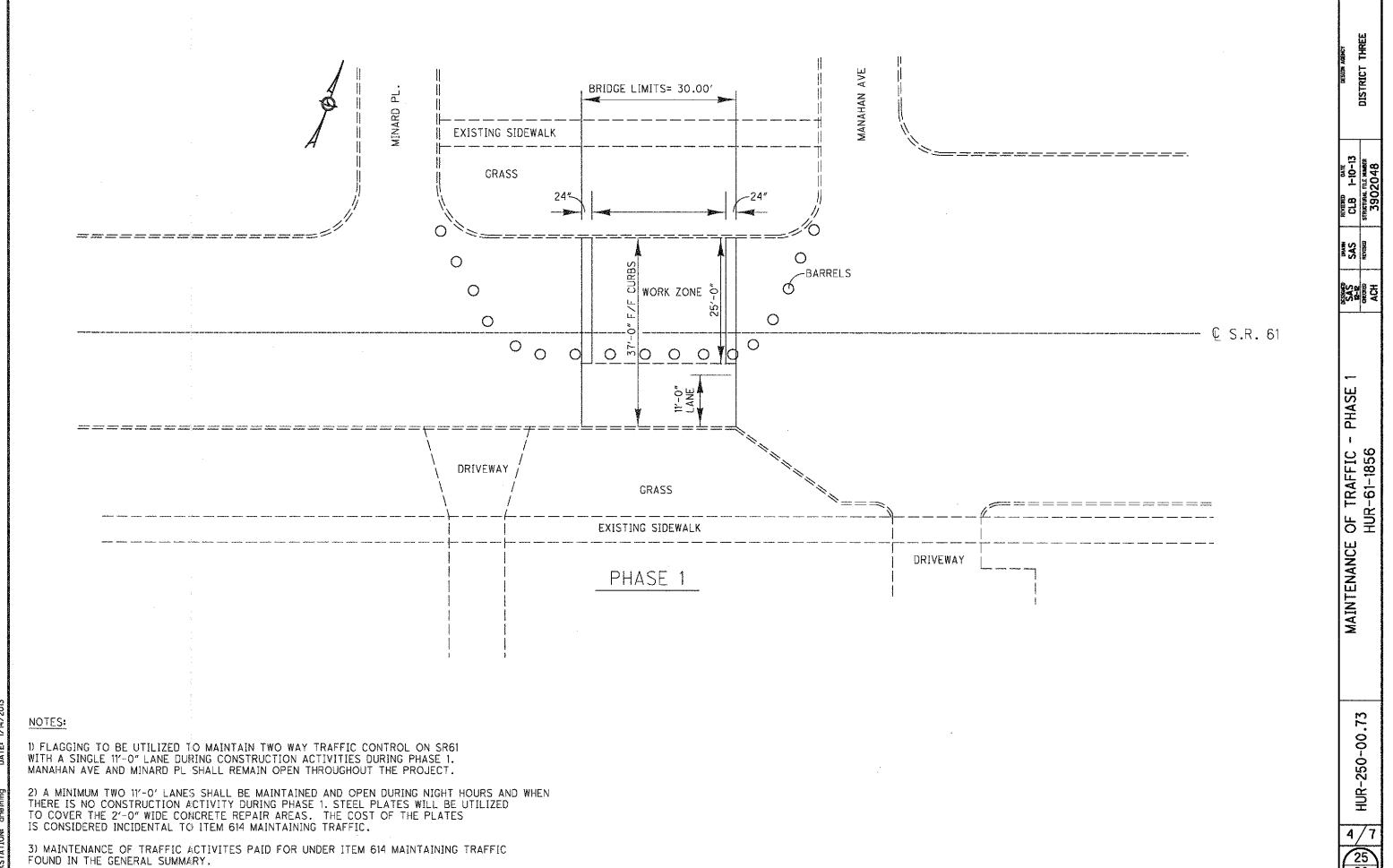
SEALING CONCRETE BRIDGE DECKS WITH HMWM

1" PREFORMED EXPANSION JOINT FILLER

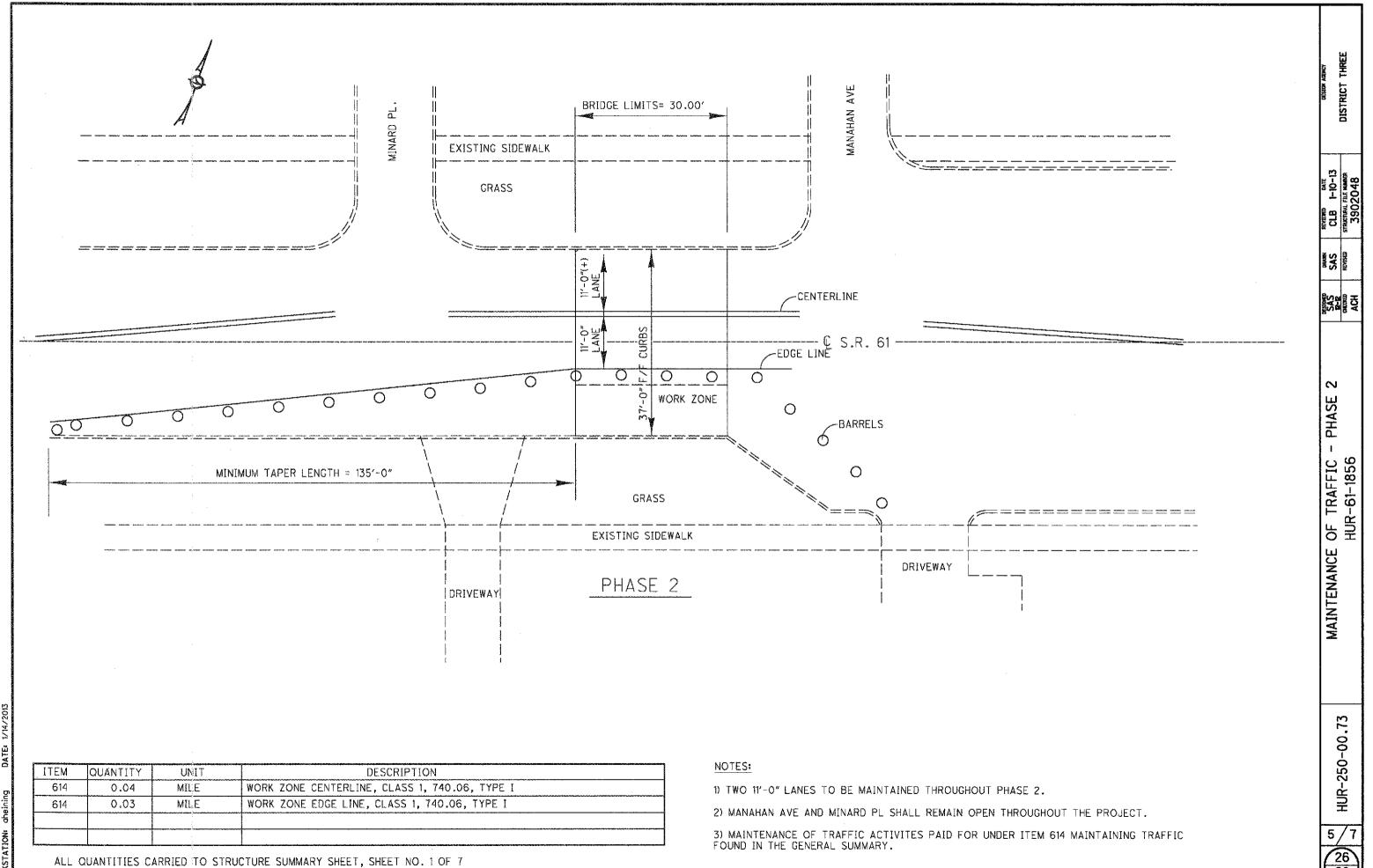
SQ: YD

SQFT

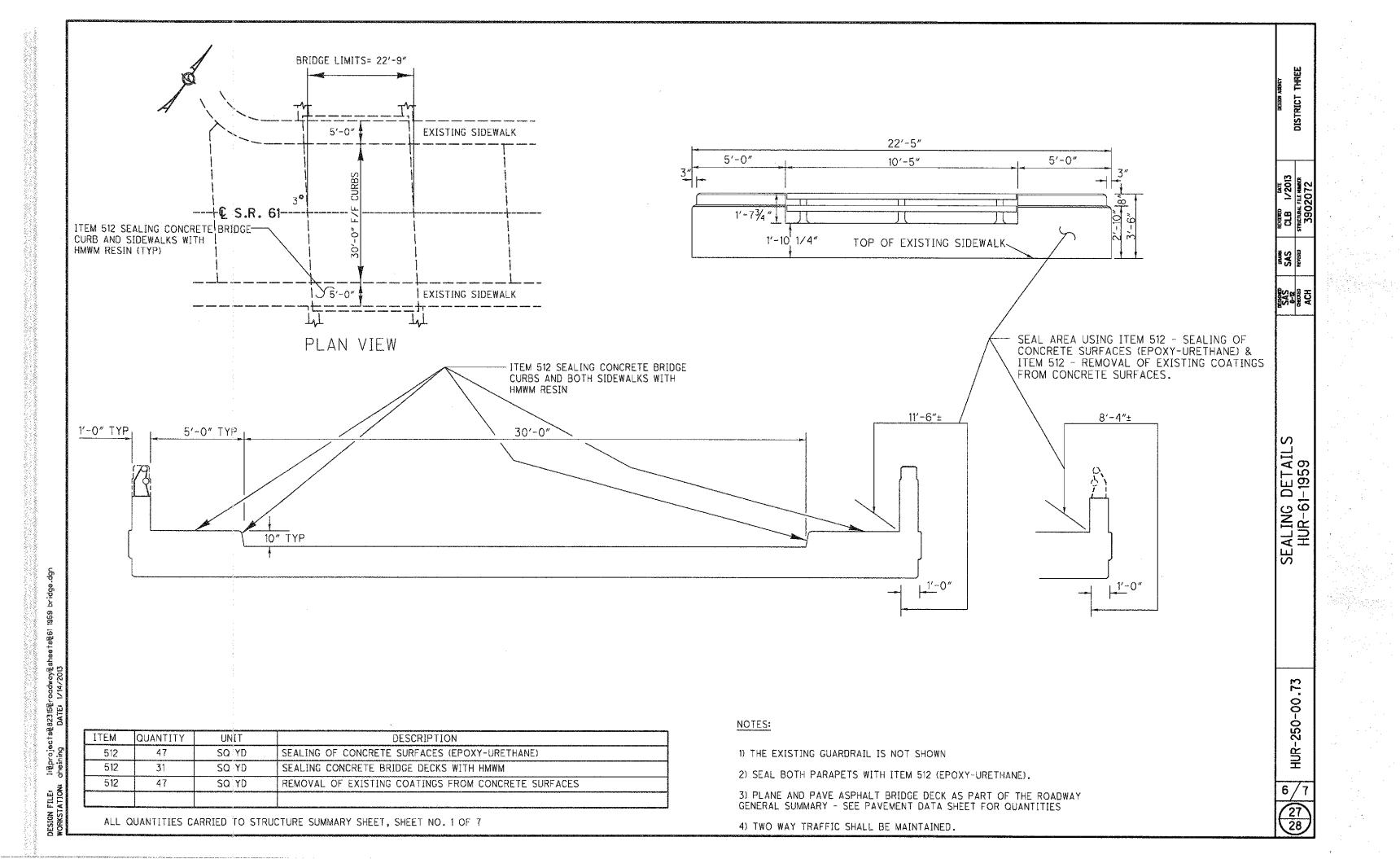
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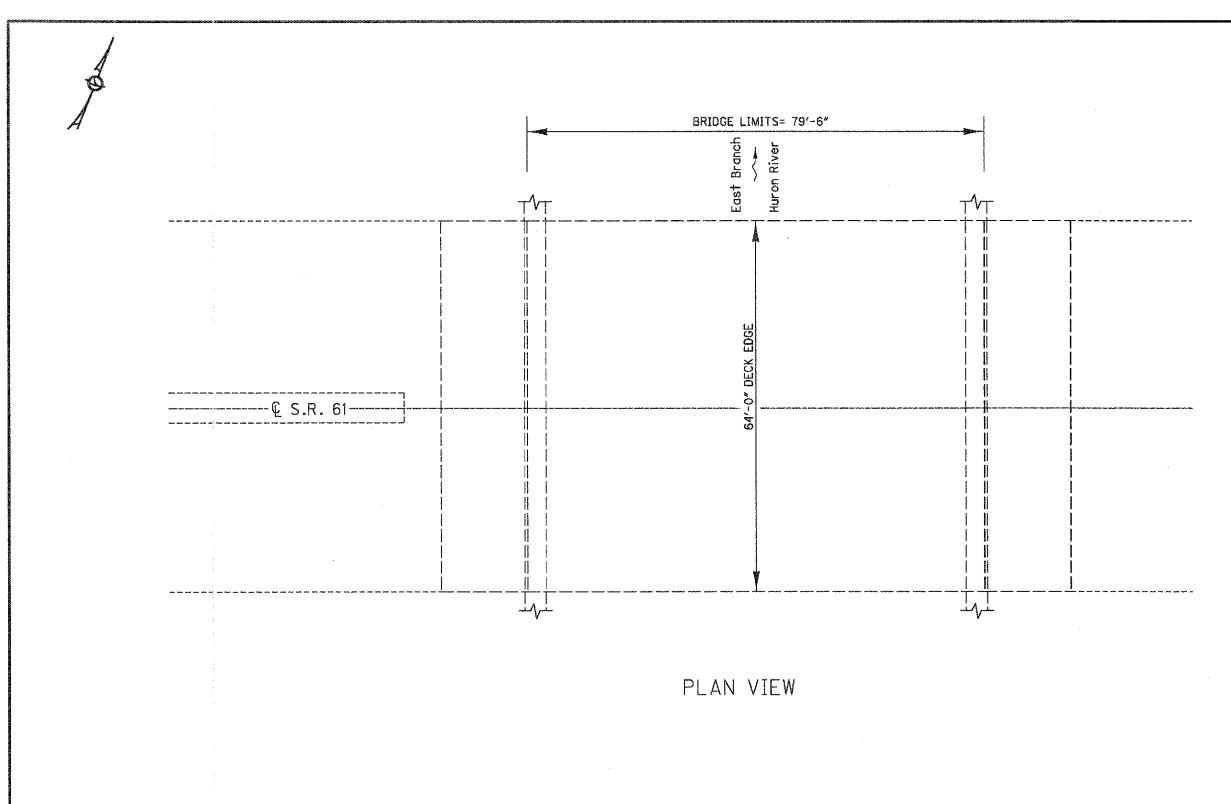


DESIGN



SIGN FILE: 1: Projects B 823 15 Producy & sheets & 61 1856 bridge





ITEM	QUANTITY	UNIT	DESCRIPTION
512	565	SQ YD	

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET, SHEET NO. 1 OF 7

NOTES:

- 1) THE EXISTING BRIDGE RAIL AND GUARDRAIL ARE NOT SHOWN.
- 2) THE ENTIRE BRIDGE DECK SHALL BE SEALED USING ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH HMWM RESIN
- 3) TWO WAY TRAFFIC SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

HUR-250-00.73

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DESIGN FILE: 1:EprojectsB82315EroodwayEsheetsE(WORKSTATION: aneining DATE: 1/14/2013