

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

TRU-82-22.74

**VIENNA, BROOKFIELD & HUBBARD TOWNSHIP
TRUMBULL COUNTY**

PROJECT DESCRIPTION

RESURFACING OVER TRU SR82 22.74 TO 29.89 AND TRU 616 0.00 TO 0.62. INCLUDES MINOR BRIDGE WORK TO 11 STRUCTURES AND WORK ON 5 CULVERTS.

EARTH DISTURBED AREAS

PROJECT EDA: N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EDA: N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EDA: N/A (NOI NOT REQUIRED)

LIMITED ACCESS

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

2019 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 8.

INDEX OF SHEETS:

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LOCATION MAP
SEE SHEET 2

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION / NHS PROJECT

SR 82: URBAN PRINCIPAL ARTERIAL / NHS: YES
SR 616: RURAL PRINCIPAL ARTERIAL / NHS: YES

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 4 - PLANNING AND ENGINEERING
2088 S. ARLINGTON RD.
AKRON, OHIO 44306

ENGINEERS SEAL:



SIGNED: *M. Andrasiak*
DATE: 2/27/2020

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	01/17/20	MT-95.30	7/19/19	TC-64.10	1/17/20	800-2020 10/16/20	WPC 3/31/20
BP-3.2	1/18/19	MT-97.10	4/19/19	TC-65.10	1/17/14	821 4/20/12	
		MT-98.10	1/17/20	TC-65.11	7/21/17	832 10/19/18	
DM-1.1	7/17/20	MT-98.11	1/17/20	TC-71.10	1/19/18	875 1/18/19	
DM-4.3	1/15/16	MT-98.20	4/19/19	TC-72.20	7/20/18	921 4/20/12	
DM-4.4	1/15/16	MT-98.22	1/17/20				
		MT-98.29	1/17/20				
BP-4.1	7/19/13	MT-98.30	7/19/19				
		MT-99.20	4/19/19				
MGS-1.1	1/19/18	MT-101.90	7/17/20				
MGS-2.1	1/19/18	MT-105.10	1/17/20				
MGS-4.3	1/18/13						
		TC-41.20	10/18/13				
HW-2.1	7/20/18	TC-42.20	10/18/13				
HW-2.2	7/20/18	TC-52.10	10/18/13				
		TC-52.20	7/20/18				

APPROVED: *[Signature]*
DATE: 2/27/20 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO.
E150(666)

PID NO.
84660

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NORFOLK SOUTHERN RR

TRU-82-22.74

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. SR 82: A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

SR 616: A MINIMUM OF ONE BIDIRECTIONAL TEN FOOT LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, AND PENNDOT (DIANA CRAFT 814-678-7153, DARRELL CHAPMAN 724-269-1061) EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

4. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE (1) MILE URBAN.

5. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

6. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

7. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

8. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

**REMOVED MOT NOTE 3:
LANE RESTRICTIONS OR LANE REDUCTIONS
SHALL NOT BE PERMITTED AFTER NORMAL
WORKING HOURS. NORMAL WORKING HOURS
SHALL BE THOSE HOURS DURING WHICH THE
CONTRACTOR HAS A FULL COMPLEMENT OF
EMPLOYEES AND EQUIPMENT ACTIVELY
REMOVING AND/OR PLACING PAVEMENT
MATERIALS.**

MOT NOTES RENUMBERED

10. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUTCD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

11. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

PHASE I: MILLED SURFACE
614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 0.62 MILE
614, WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT, 14.04 MILE
614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 160 FT
614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT, 3490 FT

614, WORK ZONE MARKING SIGN,(ALL PHASES) 50 EACH
PHASE II: INTERMEDIATE COURSE
614, WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT, 14.04 MILE
614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 160 FT
614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT, 3490 FT

PHASE III: SURFACE COURSE
614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 0.62 MILE
614, WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT, 14.04 MILE
614, WORK ZONE STOP LINE, CLASS III, 12", 642 PAINT, 160 FT
614, WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT, 3490 FT

TO BE USED AS DIRECTED BY THE ENGINEER
614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 32.14 MILE

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 5 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & CLOSURE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURE	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

WILL BE
CLOSED
FOR DAYS
INFO: 330-786-2208

W20-H13-60

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECT TRU US 422/SR 193 17.53/6.78 (PID 98505) AND TRU CR 175 (BEDFORD) (PID 98505) TRU CULVERTS FY2021 (PID 108829) MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

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SK
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MAINTENANCE OF TRAFFIC

TRU-82-22.74

6
28

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SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED SK	CHECKED XXX
3	4	13	14	15	16	17	19	01/NHS/P V	02/S>2/P V	04/NHS/C V											
											ROADWAY										
							LS			LS	201	11000	LS			CLEARING AND GRUBBING					
							4			4	202	20010	4	EACH		HEADWALL REMOVED					
				100				100			202	23500	100	SY		WEARING COURSE REMOVED					
							58			58	202	35200	58	FT		PIPE REMOVED, OVER 24"					
							55			55	202	98200	55	FT		REMOVAL MISC.:CHANNEL CLEANOUT			18		
		96						96			203	10000	96	CY		EXCAVATION					
							25			25	203	40000	25	CY		BORROW					
	404							396	8		209	60200	404	STA		LINEAR GRADING					
		1,419	126	66				1,594	17		209	72000	1,611	STA		PREPARING SUBGRADE FOR SHOULDER PAVING					
	1							1			623	39501	1	EACH		MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN			5		
											EROSION CONTROL										
							65			65	601	32100	65	CY		ROCK CHANNEL PROTECTION, TYPE B WITH FILTER					
							10			10	601	32200	10	CY		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER					
	22,446							22,001	445		659	10000	22,446	SY		SEEDING AND MULCHING					
	3.03							2.97	0.06		659	20000	3.03	TON		COMMERCIAL FERTILIZER					
	4.64							4.55	0.09		659	31000	4.64	ACRE		LIME					
		121.2						118.8	2.4		659	35000	121.2	MGAL		WATER					
								3,000			832	30000	3,000	EACH		EROSION CONTROL					
											DRAINAGE										
							LS			LS	503	11100	LS			COFFERDAMS AND EXCAVATION BRACING					
							4			4	602	20000	4	CY		CONCRETE MASONRY					
							12			12	611	16200	12	FT		36" CONDUIT, TYPE A, (706.01)					
							30			30	611	16200	30	FT		36" CONDUIT, TYPE A, (707.04 OR 707.33)					
							16			16	611	19200	16	FT		42" CONDUIT, TYPE A, (706.01)					
							10			10	613	41200	10	CY		LOW STRENGTH MORTAR BACKFILL					
											PAVEMENT										
	5,100							5,000	100		251	01000	5,100	SY		PARTIAL DEPTH PAVEMENT REPAIR (441)					
		192						192			253	01000	192	SY		PAVEMENT REPAIR					
		289,098	32,159					315,061	6,196		254	01000	321,257	SY		PAVEMENT PLANING, ASPHALT CONCRETE (T=3-1/4")					
		384						384			255	10010	384	SY		FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1					
		2,040						2,040			255	20000	2,040	FT		FULL DEPTH PAVEMENT SAWING					
		96						96			304	20000	96	CY		AGGREGATE BASE					
		43,365	4,825	846				48,106	930		407	20000	49,036	GAL		NON-TRACKING TACK COAT					
		12,607	1,119	582				14,157	151		408	10001	14,308	GAL		PRIME COAT, AS PER PLAN			5		
				264				264			424	12001	264	CY		FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN			5		
		17,466	1,191					18,250	407		441	00100	18,657	CY		ANTI-SEGREGATION EQUIPMENT					
		12,046	1,340					13,127	259		442	10051	13,386	CY		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE B (446), AS PER PLAN, PG 70-22M			5		
	22	14,054	1,564					15,338	302		442	10150	15,640	CY		ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE B (446)					
		1,751	170	81				1,981	21		617	10101	2,002	CY		COMPACTED AGGREGATE, AS PER PLAN			5		
		28						27	1		618	40600	28	MILE		RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)					
		14,510	606					14,778	338		875	10000	15,116	LB		LONGITUDINAL JOINT ADHESIVE					
							9,394	9,394			897	01010	9,394	SY		PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1")					
											TRAFFIC CONTROL										
							875	860	15		621	00100	875	EACH		RPM					
							600	600			621	54000	600	EACH		RAISED PAVEMENT MARKER REMOVED					
							32.14	31.5	0.64		642	00104	32.14	MILE		EDGE LINE, 6", TYPE 1					
							14.04	13.72	0.32		642	00204	14.04	MILE		LANE LINE, 6", TYPE 1					
							0.62	0.62			642	00300	0.62	MILE		CENTER LINE, TYPE 1					
							3,490	3,490			642	00404	3,490	FT		CHANNELIZING LINE, 12", TYPE 1					
							160	160			642	00500	160	FT		STOP LINE, TYPE 1					
							550	550			642	00700	550	FT		TRANSVERSE/DIAGONAL LINE, TYPE 1					
							284	284			642	00900	284	SF		ISLAND MARKING, TYPE 1					
							23	23			642	01300	23	EACH		LANE ARROW, TYPE 1					
							2,800	2,800			642	01510	2,800	FT		DOTTED LINE, 6", TYPE 1					

GENERAL SUMMARY

TRU-82-22.74

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SHEET NUM.

PART.

ITEM

ITEM

GRAND

UNIT

DESCRIPTION

SEE SHEET NO.

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6 7 19

01/NHS/P V 02/S>2/P V 04/NHS/C V

ITEM

EXT TOTAL

SEE SHEET NO.

STRUCTURE REPAIR

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
PATCHING CONCRETE STRUCTURE, AS PER PLAN

18

STRUCTURE REPAIRS

FOR TRU-62-0871L ESTIMATED QUANTITIES
FOR TRU-62-0871R ESTIMATED QUANTITIES
FOR TRU-82-2207R ESTIMATED QUANTITIES
FOR TRU-82-2210L ESTIMATED QUANTITIES
FOR TRU-82-2518L ESTIMATED QUANTITIES

25
25
25
25
25

FOR TRU-82-2518R ESTIMATED QUANTITIES
FOR TRU-82-2535R ESTIMATED QUANTITIES
FOR TRU-82-2536L ESTIMATED QUANTITIES
FOR TRU-82-2540L ESTIMATED QUANTITIES
FOR TRU-82-2540R ESTIMATED QUANTITIES

25
25
25
26
26

FOR TRU-82-2955 ESTIMATED QUANTITIES

26

MAINTENANCE OF TRAFFIC

LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

300

300

614

11110

300

HOUR

WORK ZONE MARKING SIGN

50

40

614

12460

50

EACH

ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

20

20

614

13000

20

CY

PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

16

16

614

18601

16

SNMT

WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT

28.08

27.44

614

20110

28.08

MILE

WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT

14.04

13.72

614

20560

14.04

MILE

WORK ZONE CENTER LINE, CLASS I, 642 PAINT

0.62

0.62

614

21100

0.62

MILE

WORK ZONE CENTER LINE, CLASS III, 642 PAINT

0.62

0.62

614

21550

0.62

MILE

WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT

32.14

31.5

614

22360

32.14

MILE

WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT

6,980

6,980

614

23210

6,980

FT

WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT

3,490

3,490

614

23690

3,490

FT

WORK ZONE STOP LINE, CLASS I, 642 PAINT

320

320

614

26200

320

FT

WORK ZONE STOP LINE, CLASS III, 642 PAINT

160

160

614

26610

160

FT

MAINTAINING TRAFFIC

INCIDENTALS

FIELD OFFICE, TYPE B

LS

614

11000

LS

CONSTRUCTION LAYOUT STAKES AND SURVEYING

6

619

16010

6

MNTH

MOBILIZATION

LS

623

10000

LS

LS

624

10000

LS

GENERAL SUMMARY

TRU-82-22.74

I:\ProjectData\TRU\84660_82-22.74_616-0.00\84660_82-22.74_616-0.00\Design\Roadway\Sheets\84660_PM001.dgn Sheet 12/3/2020 3:41:23 PM brass

GENERAL SPEC: 640
MATERIAL TYPE: 642

CHANGED ALL PM TO 642 TRAFFIC PAINT

CALCULATED
SK
CHECKED
XXX

EDGE LINE											COMMENTS	
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	WHITE EDGE LINE			YELLOW EDGE LINE			
						TOTAL	HIGHWAY	RAMP	TOTAL	HIGHWAY		RAMP
TRU	82 EB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		6.86	6.86		
TRU	82I EB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		0.16	0.16		
TRU	82 WB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		6.86	6.86		
TRU	82I WB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		0.16	0.16		SEE RAMP G FOR SR 82 SLM 29.60 TO 29.87
	RAMP A					0.23		0.23	0.23		0.23	
	RAMP B					0.20		0.20	0.20		0.20	
	RAMP C					0.20		0.20	0.20		0.20	
	RAMP D					0.23		0.23	0.23		0.23	
	RAMP E					0.23		0.23	0.23		0.23	
	RAMP F					0.20		0.20	0.20		0.20	
	RAMP G					0.20		0.20	0.20		0.20	
	RAMP H					0.23		0.23	0.23		0.23	
TRU	616	0.00	COUNTY LINE RD	0.62	MCKINLEY RD SE	0.62	0.62					
TOTAL						16.38	14.66	1.72	15.76	14.04	1.72	

LANE LINE											COMMENTS
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	4" LANE LINE				
							DASHED	SOLID			
TRU	82 EB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86				
TRU	82I EB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16				
TRU	82 WB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86				
TRU	82I WB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16				
TOTAL						14.04	14.04				

CENTER LINE							COMMENTS
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	
TRU	616	0.00	COUNTY LINE RD	0.62	MCKINLEY RD SE	0.62	0.35
TOTAL						0.62	0.35

AUXILIARY																	DOTTED LINES	COMMENTS		
CTY	ROUTE LOCATION	TRUE LOG	CHANNEL LINE	STOP LINE	CROSS WALK LINES	TRANSVERSE DIAGONAL LINES		ISLAND MARKING	SYMBOL MARKINGS			LANE ARROWS				WORD ON PVMT ONLY				
						WHITE	YELLOW		R x R	SCHOOL		TURN LEFT	TURN RIGHT	THRU	COMB.	MERGE			72"	96"
										FT	FT									
TRU	SR 82 @ WARNER RD	24.52	300																	
TRU	SR 82 @ SR 7	27.11	1450	86		200		284			4									
TRU	SR 82 @ BEDFORD RD	27.496	300	74							10	3								
TRU	SR 82 GORES @ US 62	29.47	480			150					6							1300		
TRU	SR 82 GORES @ US 62	29.52	710			200												1175		
TRU	SR 82 GORES @ US 62	29.87	250															325		
TOTAL			3490	160		550		284			20	3						2800		

PAVEMENT MARKING SUBSUMMARY

TRU-82-22.74