

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ATB-US6/SR 7-20.28/VAR

ANDOVER TOWNSHIP
ASHTABULA COUNTY

FEDERAL PROJECT NUMBER

E191(728)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACING OF US 6 AND SR 7 IN ASHTABULA COUNTY. PROJECT INCLUDES MINOR BRIDGE REHAB TO ONE STRUCTURE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 2.1 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)*
*ROUTINE MAINTENANCE PROJECT

2019 SPECIFICATIONS

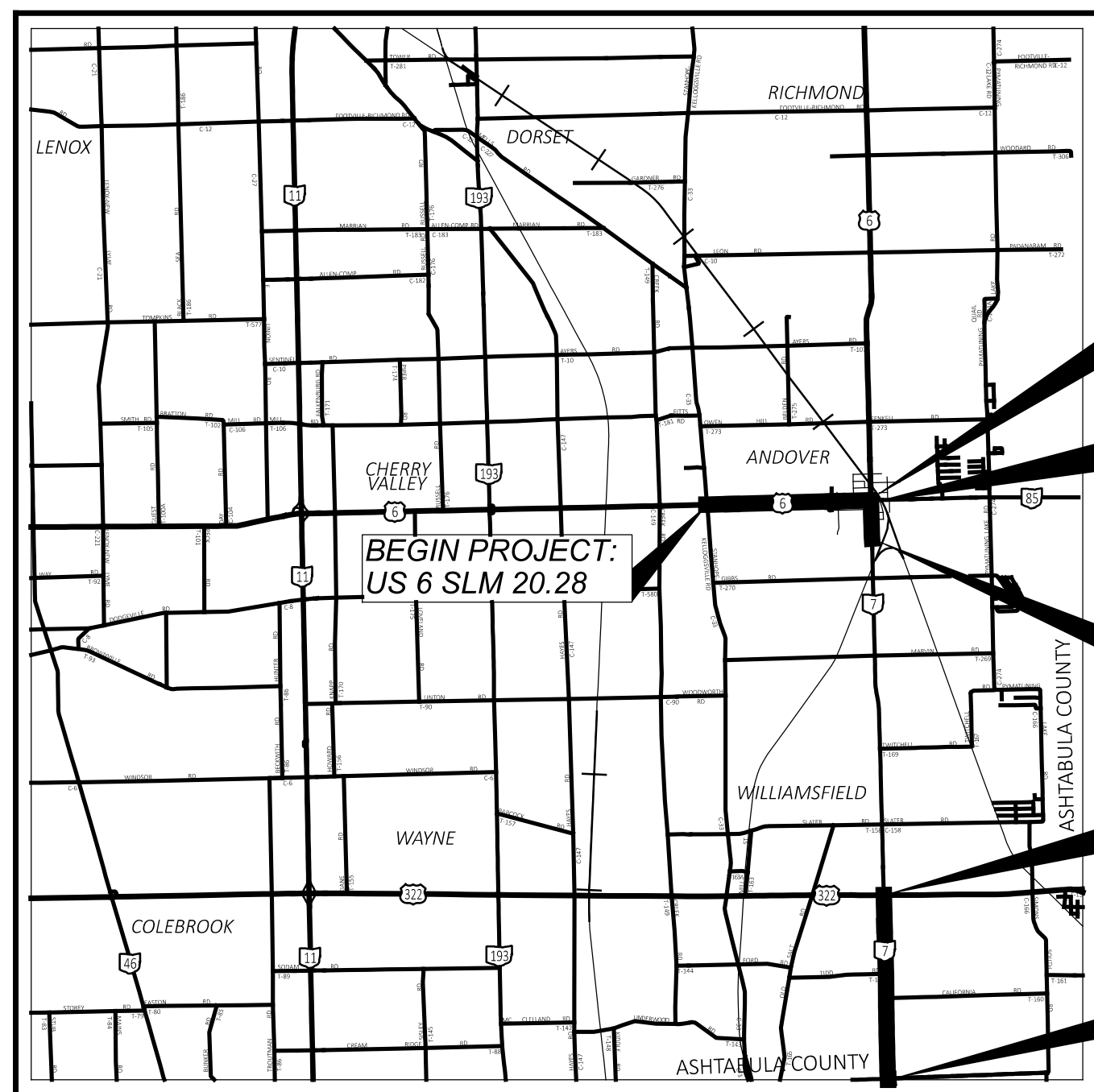
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

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 ESTIMATES.

DISTRICT DEPUTY DIRECTOR

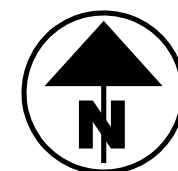
Abigail Sp.
DIRECTOR, DEPARTMENT OF TRANSPORTATION

Jack Markants



LOCATION MAP

LATITUDE: 41°34'09.05" LONGITUDE: 80°34'13.99"



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

DESIGN DESIGNATION

	US 6 SLM 20.28-22.37	SR 7 SLM 0.00-2.37 SLM 6.98-7.44
CURRENT ADT (2021)	3,344	2,460
DESIGN HOURLY VOLUME (2021)	333	256
DIRECTIONAL DISTRIBUTION	10%	10%
TRUCKS (24 HOUR B&C)	7%	6%
DESIGN SPEED	35/55 MPH	35/45/55 MPH
LEGAL SPEED	35/55 MPH	35/45/55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	RURAL MAJOR COLLECTOR	RURAL MINOR ARTERIAL
NHS PROJECT	NO	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

INDEX OF SHEETS:

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UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO 811, 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 ROAD
AKRON, OH 44306

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	TC-41.20	10/18/13	800-2019 SEE PROPOSAL	WATERWAY PERMIT 02/17/23
BP-3.2	1/18/19	TC-42.10	10/18/13	832	7/15/22
BP-4.1	7/19/13	TC-42.20	10/18/13	809	7/15/22
BP-5.1	7/15/22	TC-71.10	7/15/22	897	1/16/15
BP-7.1	1/21/22	TC-74.10	1/21/22	909	7/15/22
DM-1.1	7/17/20				
DM-4.3	1/15/16				
DM-4.4	1/15/16				
MT-95.50	7/21/17				
MT-97.10	4/19/19				
MT-97.12	1/20/17				
MT-99.20	4/19/19				
MT-101.90	7/17/20				
MT-105.10	1/17/20				

ENGINEER'S SEAL
ROADWAY

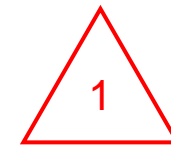
TITLE SHEET

DESIGN AGENCY	
DESIGNER	ROF
REVIEWER	CLG 11-01-22
PROJECT ID	110646
SHEET	TOTAL
P.1	20

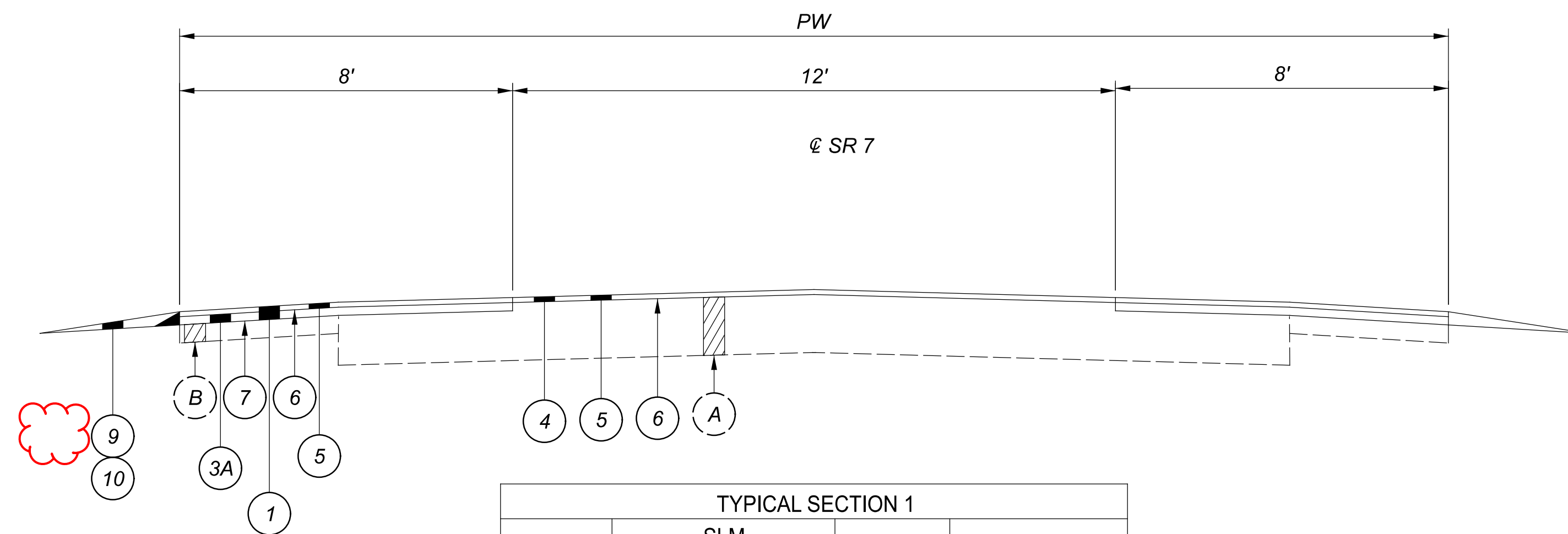
ATB-617-20.28/VAR

MODEL: Sheet PAPER: 34x22 (in.) DATE: 4/7/2023 TIME: 1:26:53 PM USER: cgalan pwc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 04\Ashtabula\110646\Roadway\Sheets\110646_G1001.dgn

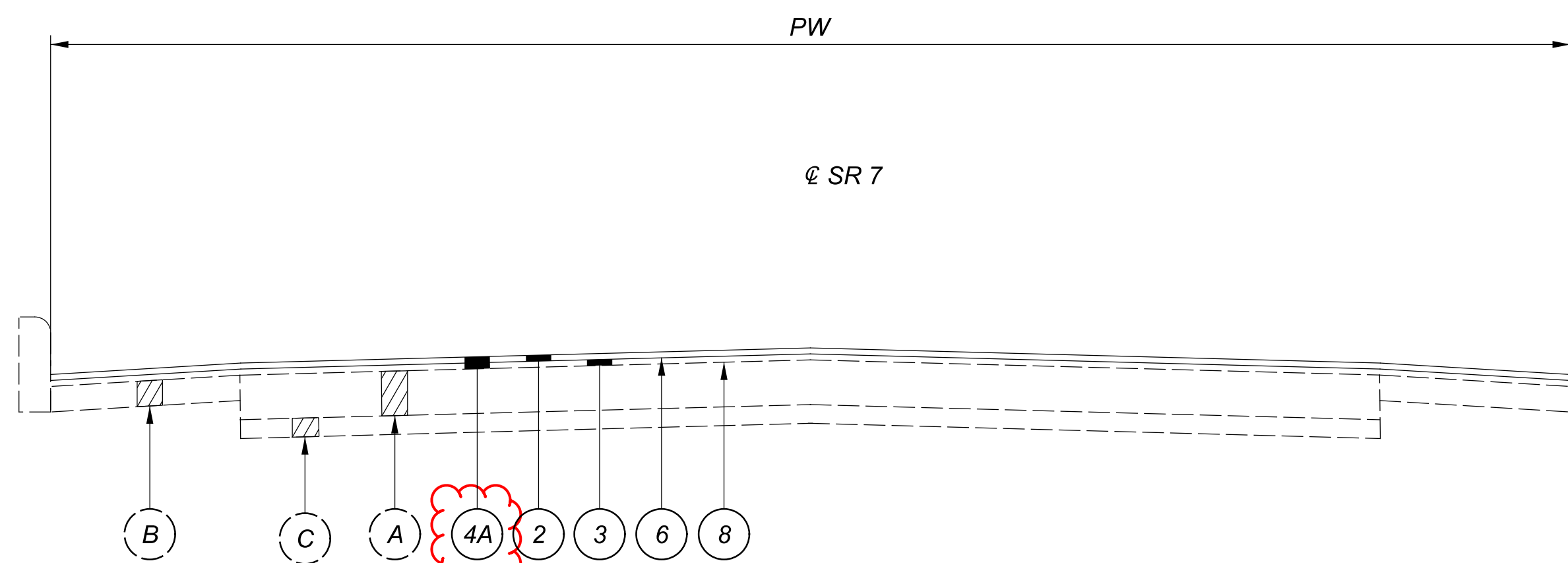
LEGEND



- 1 ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, (T = 3")
- 2 ITEM 424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (449), AS PER PLAN (T = 1")
- 3 ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) (T = 1")
- 3A ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (T = 2")
- 4 ITEM 897, PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1")
- 4A ITEM 897, PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, AS PER PLAN (T = 2")
- 5 ITEM 424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN (T = 1")
- 6 ITEM 407, NON-TRACKING TACK @ 0.09 GAL/SY
- 7 ITEM 407, NON-TRACKING TACK @ 0.06 GAL/SY
- 8 ITEM 407, TACK COAT, 702.13 @ 0.09 GAL/SY
- 9 ITEM 617 COMPACTED AGGREGATE, AS PER PLAN (T = 2")
- 10 ITEM 408 PRIME COAT @ 0.40 GAL/SY, AS PER PLAN
- A EXISTING PAVEMENT
- B EXISTING SHOULDER
- C EXISTING BRICK BASE (T = 4±")



TYPICAL SECTION 1				
ROUTE	SLM		PW(FEET)	LENGTH(MILES)
	FROM	TO		
SR 7	0.00	2.37	28	2.37



TYPICAL SECTION 2				
ROUTE	SLM		PW(FEET)	LENGTH(MILES)
	FROM	TO		
SR 7	6.98	7.02	28	0.04
SR 7	7.02	7.44	24	0.42



UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

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 AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS:

- US 6 S.L.M. 20.28 TO S.L.M. 22.36 LANE WIDTH 12'
- SR 7 S.L.M. 0.00 TO S.L.M. 2.37 LANE WIDTH 14'
- SR 7 S.L.M. 6.98 TO S.L.M. 7.44 LANE WIDTH 12'

PAVEMENT MARKING DETAILS

THE PAVEMENT MARKING DETAIL SHEETS HAVE BEEN SUPPLIED AS REFERENCE DOCUMENTS FOR THIS PROJECT AND ARE AVAILABLE ON THE ODOT FTP SITE AT <https://ftp.dot.state.oh.us/pub/contracts/Attach/> FOR THIS PROJECT. FOR ANY LOCATIONS THAT PAVEMENT MARKING DETAILS HAVE NOT BEEN MADE AVAILABLE TO THE CONTRACTOR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PUT BACK NEW PAVEMENT MARKINGS IN THE ORIGINAL LOCATIONS.

CURB RAMPS / DETECTABLE WARNINGS

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

INTERSECTIONS

INTERSECTIONS WILL BE RESURFACED 10 FT. BEYOND THE EDGE LINE OR FACE OF CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR INDICATED IN THE PLAN. INTERSECTIONS SHALL BE PAVED AFTER COMPLETION OF THE SURFACE COURSE OR WITH THE MAINLINE PAVEMENT IF THIS CAN BE ACCOMPLISHED WITHOUT CHANGING THE VELOCITY AND DIRECTION OF THE PAVER. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASPHALT SURFACE COURSE.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

DRIVEWAYS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT SURFACE COURSE AND THE EXISTING DRIVEWAYS. IF APPROVED BY THE ENGINEER, AN ASPHALT WEDGE WITH A MINIMUM WIDTH OF 2' MAY BE PLACED EITHER ON THE ROADWAY SHOULDER OR DRIVEWAY DEPENDENT UPON WHICH SIDE IS HIGH. A QUANTITY OF MAINLINE SURFACE COURSE ASPHALT HAS BEEN PROVIDED IN THE CALCULATIONS AND GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK.

IN THE EVENT THAT THE ENGINEER DETERMINES ADDITIONAL WORK IS NECESSARY TO PROPERLY ADDRESS FIELD CONDITIONS, AN ITEM FOR WEARING COURSE REMOVED HAS BEEN PROVIDED. THE REMOVAL DEPTH IS DEPENDENT UPON THE ELEVATION DIFFERENCE AND ALLOW FOR 1"-2" OF COMPACTED ASPHALT MATERIAL TO BE PLACED.

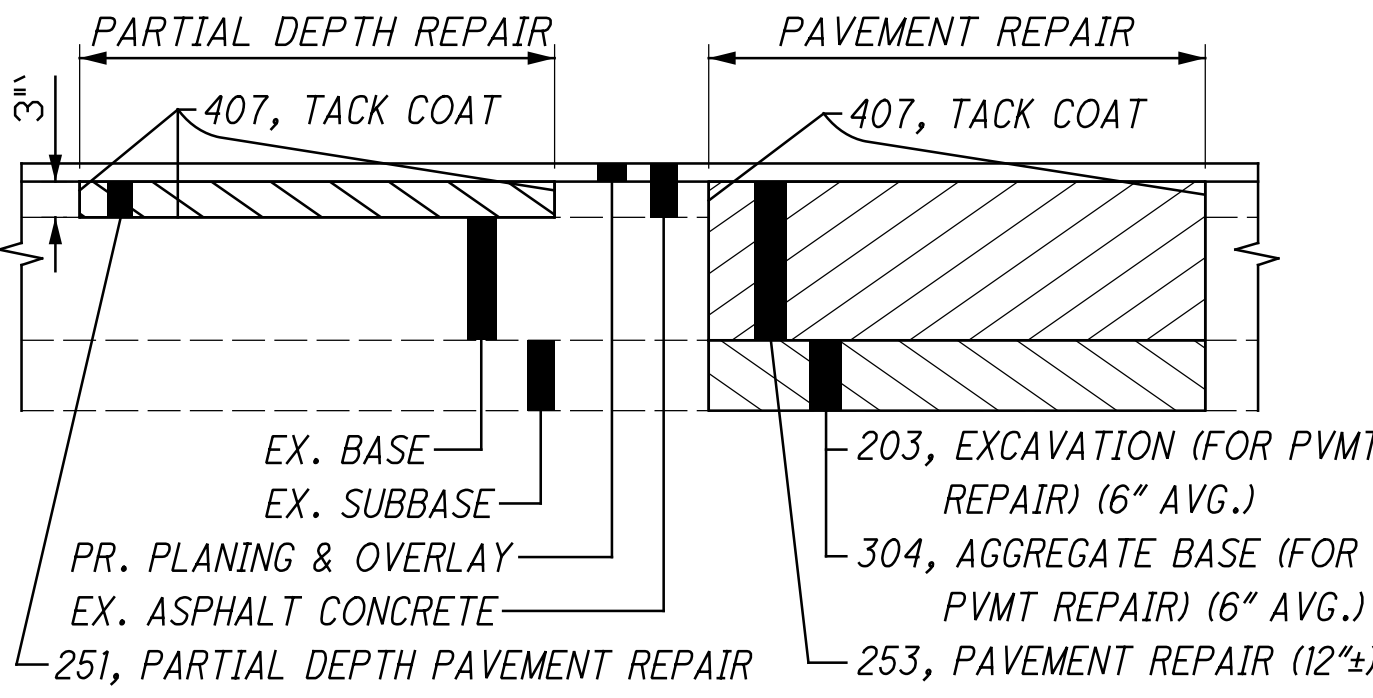
ITEM 897 - PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, AS PER PLAN (T = 2")

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH SUPPLEMENTAL SPEC 897 EXCEPT THE DEPTH SHALL VARY FROM 2" TO THE TOP OF THE BRICK WHICHEVER IS FIRST. ALL EQUIPMENT, LABOR, TOOLS, AND OTHER INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 897 PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, AS PER PLAN.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. PAVEMENT REPAIRS WILL BE MARKED IN THE FIELD BY THE PROJECT ENGINEER ACCORDING TO CMS 251.02. MINIMUM WIDTH IS 2'. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF MAINLINE PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ATB US 6 SLM 20.28-22.37 AND SR 7 SLM 0.00-2.37
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1200 SQ. YD.



ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (449), AS PER PLAN (T = 1")

703.05 DO NOT USE ANY AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN (T = 1")

703.05 DO NOT USE ANY AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE, OR AS DIRECTED BY THE ENGINEER, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

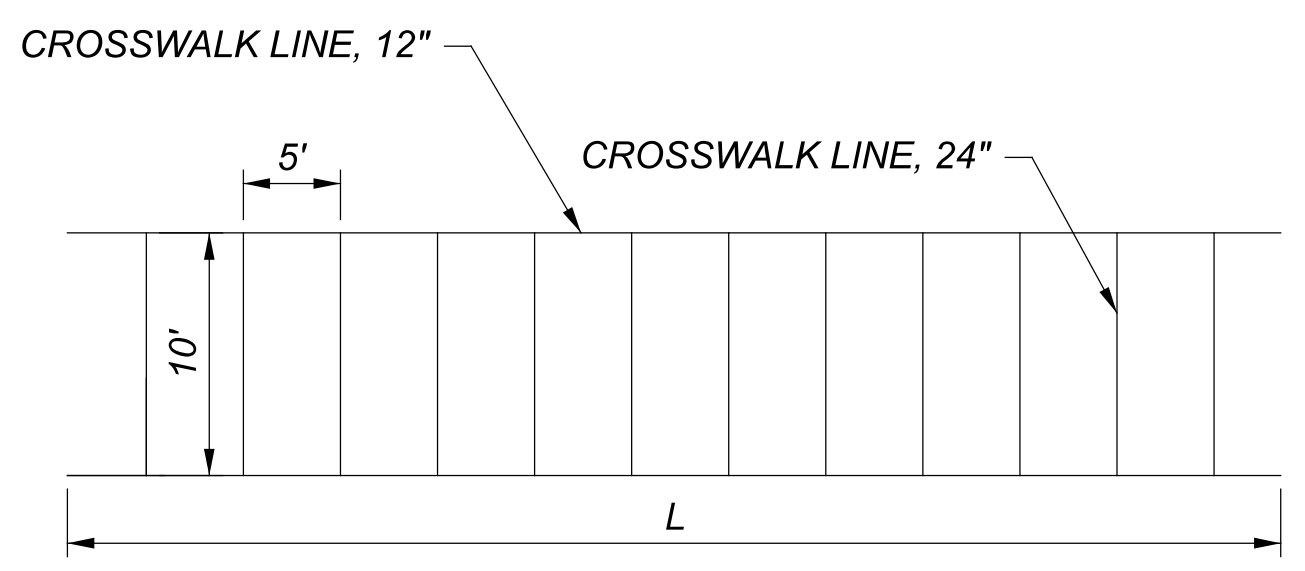
MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSING
1- 1/2"	100
3/4"	50-100
NO. 4	35-70
NO. 30	9-33
NO. 200	0-13

ITEM 646 CROSSWALK LINE

THE CONTRACTOR SHALL REPAINT THE CROSSWALKS WHICH INTERCEPT US 6/PYMATUNING VALLY HS, US 6/GATES ST, US 6/ANDOVER SQUARE, 0.06 MILES S OF SR 7/S PARK DR, SR 7/CHESTNUT ST, & SR 7/ANDOVER SQUARE PER THE BELOW DETAIL AFTER PAVING.

ALL CROSSWALK LINES SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. QUANTITIES FOR THIS TYPE OF CROSSWALK CAN BE FOUND IN THE PAVEMENT MARKINGS SECTION (P.16) THESE QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.



DESIGN AGENCY



DESIGNER

ROF

REVIEWER

CLG 11-01-22

PROJECT ID

110646

SHEET TOTAL

P.4 | 20

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. 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.
2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
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.
4. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.
5. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
6. 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.
7. 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.
8. 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.
9. A QUANTITY OF 10 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.
10. 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.
11. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 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.

12. 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:

- ATB SR 7 FROM SLM 0.0 TO 2.37:
- PHASE 1: MILLED SURFACE
614, WORK ZONE CENTER LINE, CLASS I, 2.37 MILE
614, WORK ZONE STOP LINE, CLASS 1, 12 FT
614, WORK ZONE MARKING SIGN,(ALL PHASES) 8 EACH
- PHASE 2: SHOULDER AND WHEEL TRACK REPAIR INTERMEDIATE COURSE
614, WORK ZONE CENTER LINE, CLASS I, 2.37 MILE
614, WORK ZONE STOP LINE, CLASS 1, 12 FT
- PHASE 3: SURFACE COURSE
614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 2.37 MILE
614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 12 FT
- TO BE USED AS DIRECTED BY THE ENGINEER
614, WORK ZONE EDGE LINE, CLASS III, 6", 14.22 MILE
- ATB SR 7 FROM SLM 6.98 TO 7.44:
- PHASE 1: MILLED SURFACE
614, WORK ZONE CENTER LINE, CLASS I, 0.46 MILE
614, WORK ZONE STOP LINE, CLASS 1, 15 FT
614, WORK ZONE MARKING SIGN,(ALL PHASES) 2 EACH
- PHASE 2: INTERMEDIATE COURSE
614, WORK ZONE CENTER LINE, CLASS I, 0.46 MILE
614, WORK ZONE STOP LINE, CLASS 1, 15 FT
- PHASE 3: SURFACE COURSE
614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 0.46 MILE
614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 15 FT
- ATB US 6 FROM SLM 20.28 TO 22.37:
- PHASE 1: MILLED SURFACE
614, WORK ZONE CENTER LINE, CLASS I, 2.09 MILE
614, WORK ZONE MARKING SIGN,(ALL PHASES) 7 EACH
- PHASE 2: SURFACE COURSE
614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 2.09 MILE
- TO BE USED AS DIRECTED BY THE ENGINEER
614, WORK ZONE EDGE LINE, CLASS III, 6", 6.52 MILE

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

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.

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

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

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

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

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

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

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

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

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

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 50 HOURS

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

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

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 7 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.

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.

DESIGN AGENCY



DESIGNER
ROF

REVIEWER
CLG 11-01-22

PROJECT ID
110646

SHEET TOTAL
P.6 20

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	7	10	11	12	13	16	18		01/STR/05	02/STR/04						
ROADWAY																		
					19						19		202	23500	19	SY	WEARING COURSE REMOVED	
							1,837				1,837		202	30000	1,837	SF	WALK REMOVED	
							198				198		202	32000	198	FT	CURB REMOVED	
	421										421		209	60200	421	STA	LINEAR GRADING	
				126							126		209	72000	126	STA	PREPARING SUBGRADE FOR SHOULDER PAVING	
							640				640		608	10000	640	SF	4" CONCRETE WALK	
							1,197				1,197		608	52000	1,197	SF	CURB RAMP	
	2										2		623	39501	2	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	
	LS										LS		SPECIAL	69021000	LS		AS-BUILT CONSTRUCTION RECORD DRAWINGS	
EROSION CONTROL																		
	11,695										11,695		659	10000	11,695	SY	SEEDING AND MULCHING	
	1.58										1.58		659	20000	1.58	TON	COMMERCIAL FERTILIZER	
	2.41										2.41		659	31000	2.41	ACRE	LIME	
	63.15										63.15		659	35000	63.15	MGAL	WATER	
											3,000		832	30000	3,000	EACH	EROSION CONTROL	
DRAINAGE																		
	8										8		611	98630	8	EACH	CATCH BASIN ADJUSTED TO GRADE	
	3										3		611	98634	3	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
	12										12		611	99655	12	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	
	3										3		611	99660	3	EACH	MANHOLE RECONSTRUCTED TO GRADE	
							1				1		SPECIAL	61199700	1	EACH	GAS VALVE BOX ADJUSTED TO GRADE	
	700										700		SPECIAL	61199820	700	LB	MISCELLANEOUS METAL	
PAVEMENT																		
1,200											1,200		251	01000	1,200	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
					22,247						22,247		254	01000	22,247	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 3")	
					1,000						1,000		254	01600	1,000	SY	PATCHING PLANED SURFACE	
					592						592		407	13900	592	GAL	TACK COAT, 702.13	
					8,131	2					8,132		407	20000	8,133	GAL	NON-TRACKING TACK COAT	
					1,113						1,113		408	10001	1,113	GAL	PRIME COAT, AS PER PLAN	
					1,908	12					1,920		424	14001	1,920	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN	
					202						202		424	14101	202	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (449), AS PER PLAN	
					1,236						1,236		441	50300	1,236	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
					202						202		441	70200	202	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)	
							198				198		609	26000	198	FT	CURB, TYPE 6	
					155						155		617	10101	155	CY	COMPACTED AGGREGATE, AS PER PLAN	
					46,434	19					46,453		897	01010	46,453	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1")	
					6,721						6,721		897	01011	6,721	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, AS PER PLAN (T = 2")	
WATER WORK																		
							1				1		638	10400	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
							1				1		638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
TRAFFIC CONTROL																		
							280				280		621	00100	280	EACH	RPM	
							224				224		621	54000	224	EACH	RAISED PAVEMENT MARKER REMOVED	
												44	630	02100	44	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
												12	630	80100	12	SF	SIGN, FLAT SHEET	
												2	630	80100	2	SF	SIGN, FLAT SHEET, 730.20	
												4	630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
												4	630	86002	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								8			8		646	10010	8	MILE	EDGE LINE, 6"	
								4.92			4.92		646	10200	4.92	MILE	CENTER LINE	
								27			27		646	10400	27	FT	STOP LINE	
											288		646	10510	288	FT	CROSSWALK LINE, 12"	
											44		646	10520	44	FT	CROSSWALK LINE, 24"	
											2		646	20100	2	EACH	SCHOOL SYMBOL MARKING, 72"	

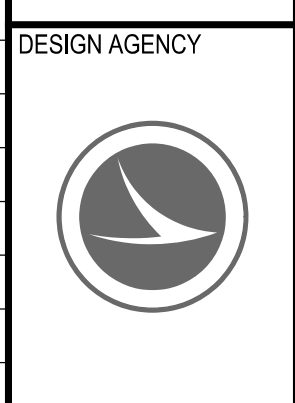


ATB-6/7-20.28/VAR

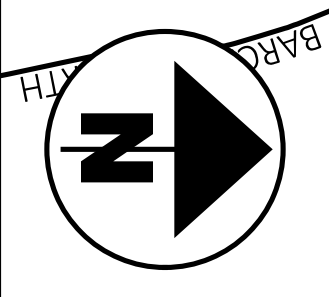
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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
4	5	6	7	10	11	12	13	16	18		01/STR/05	02/STR/04							
																	TRAFFIC SIGNALS		
											4		809	69001	4	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	7	
													2	809	69101	2	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	7
																	STRUCTURE REPAIRS		
																	FOR ATB-7-0129 ESTIMATED QUANTITIES	18	
																	MAINTENANCE OF TRAFFIC		
											50		614	11110	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
											17		614	12460	17	EACH	WORK ZONE MARKING SIGN, (ALL PHASES)		
											10		614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
											24		614	18600	24	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN		
											7.75		614	21000	7.75	MILE	WORK ZONE CENTER LINE, CLASS I		
											4.92		614	21550	4.92	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
											20.74		614	22360	20.74	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
											54		614	26000	54	FT	WORK ZONE STOP LINE, CLASS I		
											27		614	26610	27	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		
																	INCIDENTALS		
											LS		614	11000	LS		MAINTAINING TRAFFIC		
											6		619	16010	6	MNTH	FIELD OFFICE, TYPE B		
											LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
											LS		624	10000	LS		MOBILIZATION		

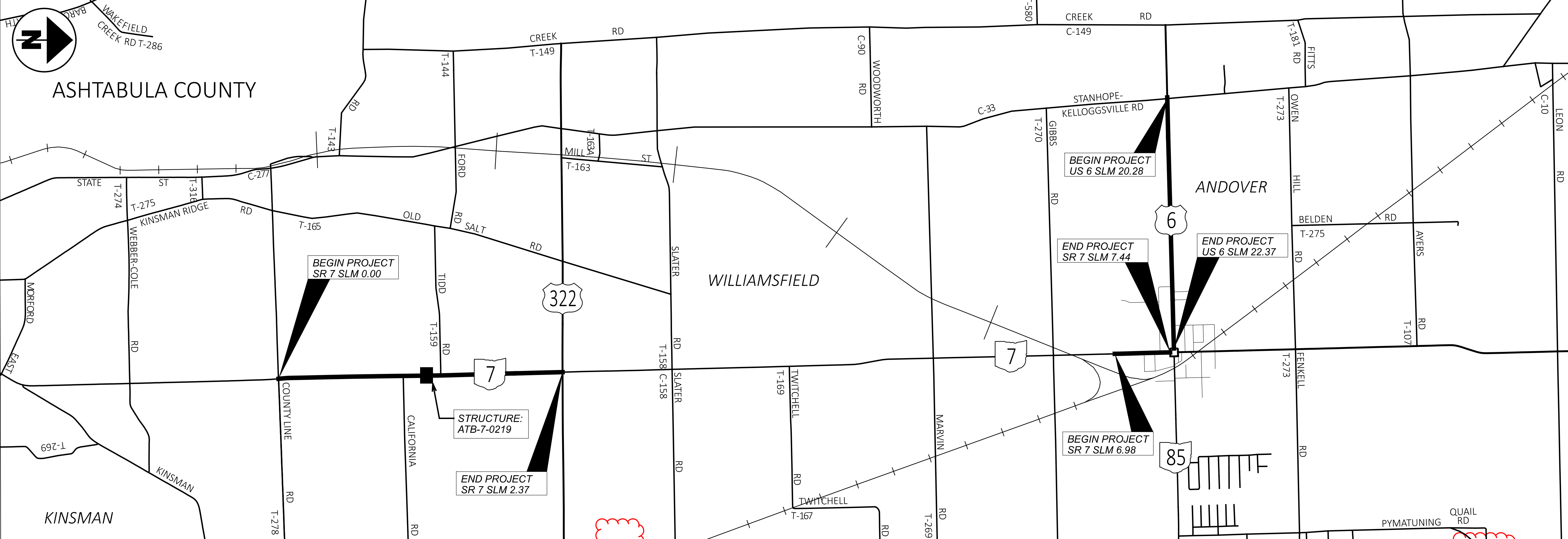
GENERAL SUMMARY



DESIGN AGENCY
 DESIGNER: ROF
 REVIEWER: CLG
 PROJECT ID: 110646
 SHEET: P.9 / TOTAL: 20



ASHTABULA COUNTY



SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=D*W/9	CADD GENERATED AREA	254		424	441	441	897	424	407	407	407	617	408	424	407	209	897																										
							PATCHING PLANED SURFACE	SY																																								
US 6																																																
																								20.28 TO 21.90	3	8553.60	24.00	22809.60																				
																								21.90 TO 22.37	4	2481.60	24.00	6617.60																				
SR 7																																																
																								0.00 TO 2.37	1	12513.60	12.00	16684.80																				
																								0.00 TO 2.37	1	12513.60	16.00	22246.40																				
																								6.98 TO 7.02	2	211.20	28.00	657.07																				
7.02 TO 7.44	2	2217.60	24.00	5913.60																																												
INTERSECTIONS																																																
US 6																																																
20.28 TO 22.37																																																
SR 7																																																
0.00 TO 2.37																																																
7.02 TO 7.44																																																
SUBTOTALS							0.00	1000.00	22246.40	201.62	201.62	1235.91	46433.92	1907.79	6786.08	1343.78	591.36	154.49	1112.32	28.97	0.00	125.14	6720.55	0.00																								
TOTALS CARRIED TO GENERAL SUMMARY							0	1000	22247	202	202	1236	46434	1908	6787	1344	592	155	1113	29	0	126	6721	0																								

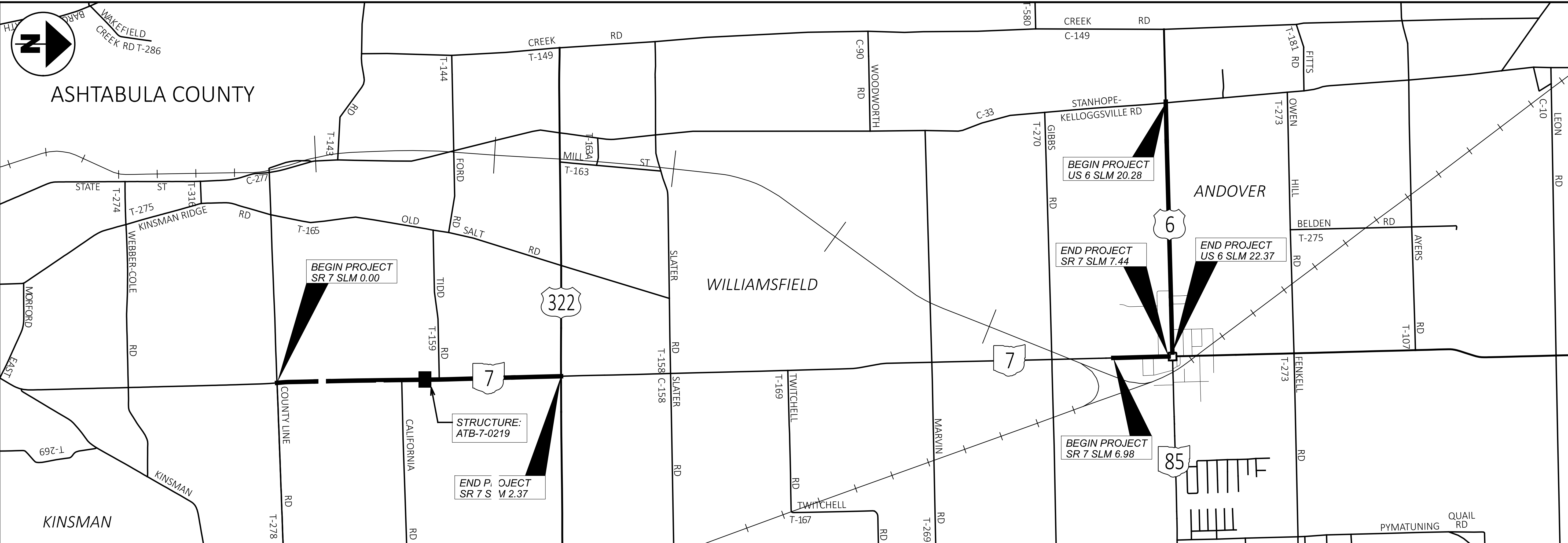
PAVEMENT CALCULATIONS

ATB-617-20.28/VAR

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DESIGN AGENCY

DESIGNER: ROF
REVIEWER: CLG
PROJECT ID: 110646
SHEET TOTAL: P.10 | 20



SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	VOLUME, ASPHALT CONCRETE (1 CY PER 10 DRIVEWAYS)	WEARING COURSE REMOVED	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (449), AS PER PLAN (T = 1')	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) (T = 1')	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (T = 2')	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 1')	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN (T = 1')	NON-TRACKING TACK COAT @ 0.09 GAL/SY	NON-TRACKING TACK COAT @ 0.06 GAL/SY	TACK COAT, 702.13 @ 0.09 GAL/SY	COMPACTED AGGREGATE, AS PER PLAN (T = 2')	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN (T = 3') (SAFETY EDGE)	NON-TRACKING TACK COAT @ 0.09 GAL/SY (SAFETY EDGE)	PREPARING SUBGRADE FOR SHOULDER PAVING (SAFETY EDGE)			
			FT	FT	SY	CY	SY	CY	CY	CY	SY	CY	GAL	GAL	GAL	CY	GAL	CY	GAL	STA			
DRIVEWAYS																							
US 6																							
20.28	TO	21.90	VARIABLE	2.00	9.76	6.50	9.76				9.76	6.50	0.88										
SR 7																							
0.00	TO	2.37	VARIABLE	2.00	8.26	5.50	8.26				8.26	5.50	0.74										
SUBTOTALS							0.00	18.02	0.00	0.00	0.00	0.00	0.00	18.02	12.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS CARRIED TO GENERAL SUMMARY							0	19	0	0	0	0	0	19	12	2	0	0	0	0	0	0	0