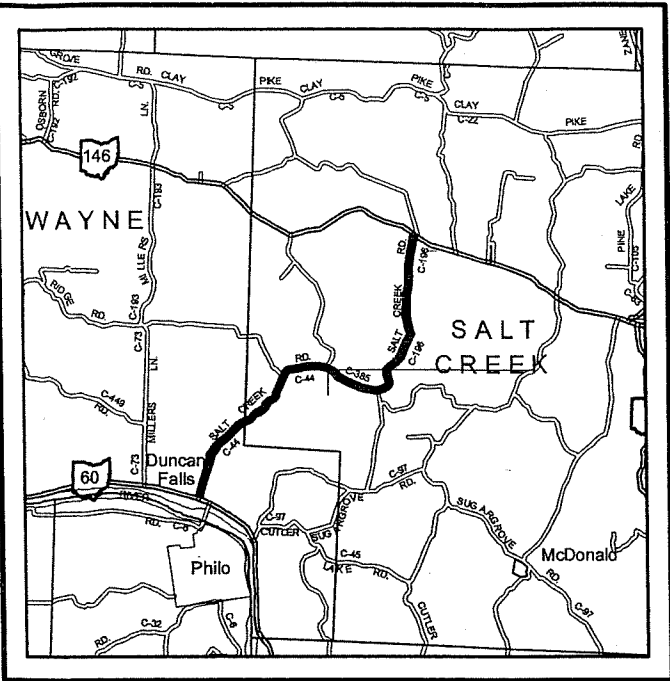


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MUS - C.R. 44, 385, 196

WAYNE TOWNSHIP
SALT CREEK TOWNSHIP
MUSKINGUM COUNTY

PROJECT DESCRIPTION
THE WORK SHALL INVOLVE 2" PAVEMENT PLANING OF
EXISTING PAVEMENT WITH A 2" RESURFACING,
STRIPING, AND REPLACEMENT OF EXISTING MAIL BOX
SUPPORTS



LOCATION MAP

LATITUDE: 39°53'23" LONGITUDE: 81°53'11"

SCALE IN MILES



PORTION TO BE IMPROVED
STATE & FEDERAL ROUTES
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2002) 350
DESIGN YEAR ADT (2022) 403
DESIGN HOURLY VOLUME (2022) 35
DIRECTIONAL DISTRIBUTION 50%
TRUCKS 10%
DESIGN SPEED 55 MPH
LEGAL SPEED 55 MPH
DESIGN FUNCTIONAL CLASSIFICATION MINOR COLLECTOR

DESIGN EXCEPTIONS

NONE REQUIRED

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLANS PREPARED BY:

Linn Engineering, Inc. 740-452-7434
Civil Engineering Consultants
P.O. Box 2086 Zanesville, Ohio 43702-2086

INDEX OF SHEETS

TITLE SHEET	1
SCHEMATIC PLAN	2-4
GENERAL NOTES	5-7
PAVEMENT MARKING SUB-SUMMARY	8
EXTRA AREA SUB-SUMMARY	9
PAVEMENT AND SHOULDER SUMMARY	10
GENERAL SUMMARY	11

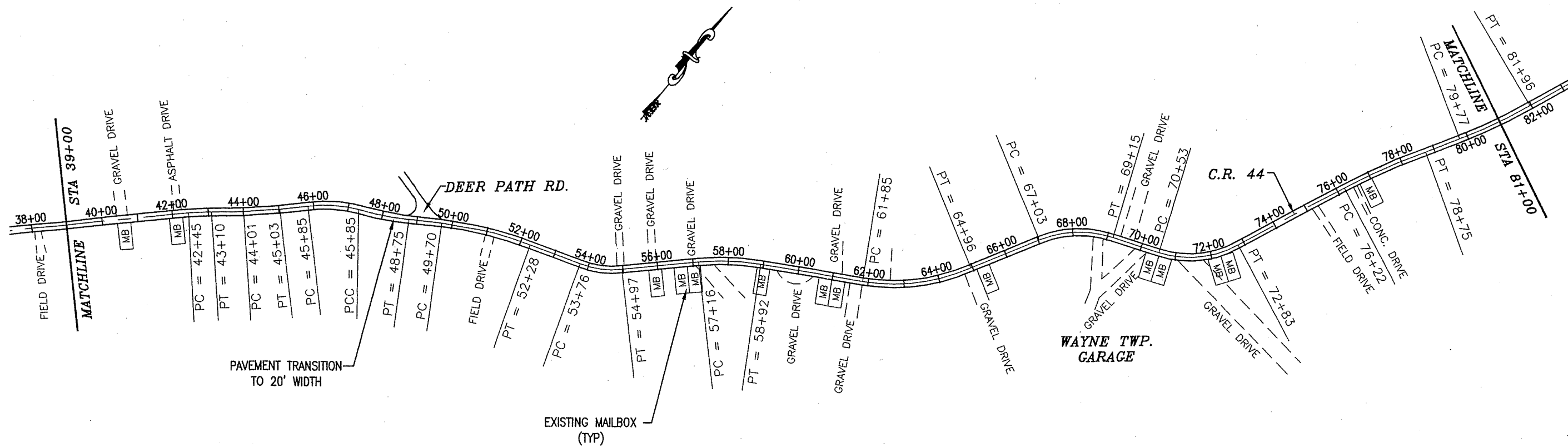
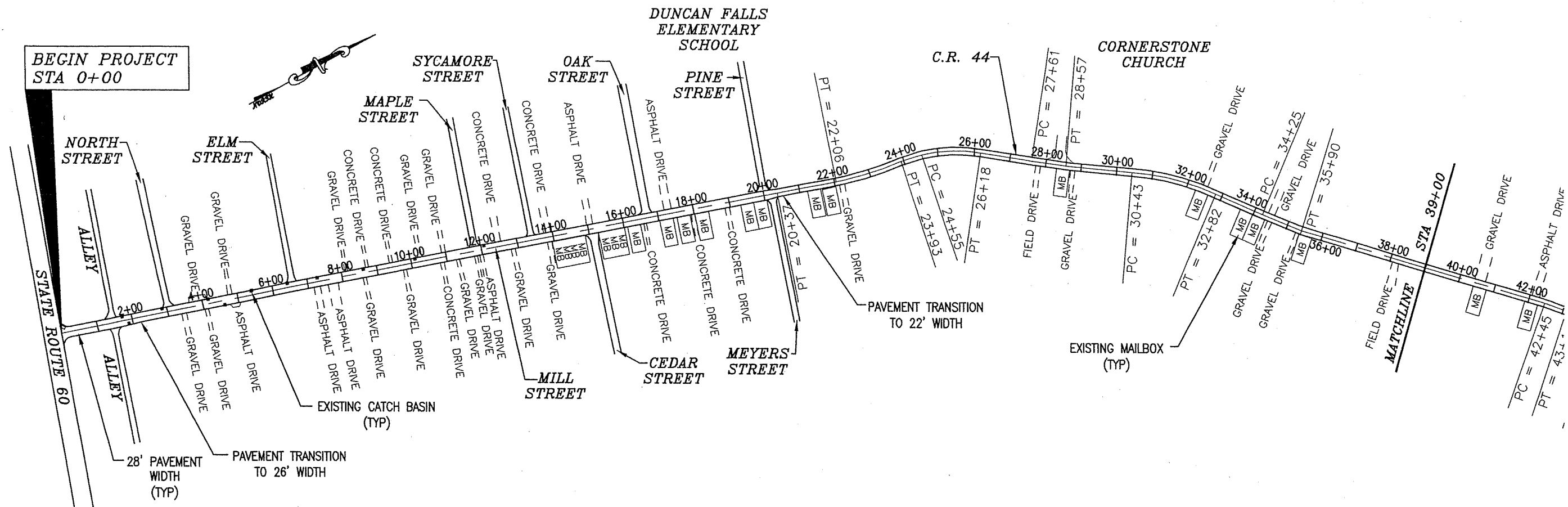
1997 SPECIFICATIONS

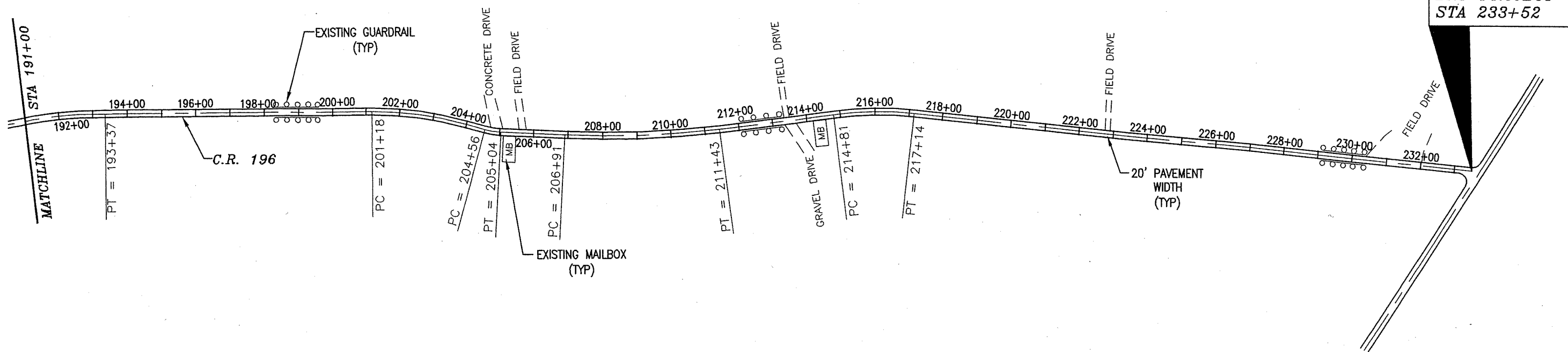
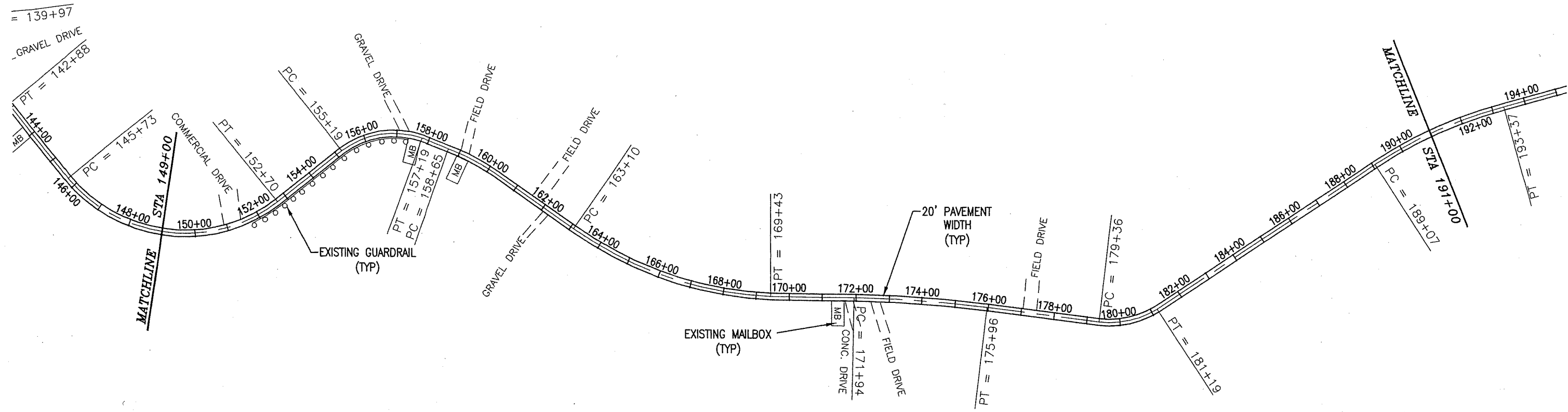
THE STANDARD SPECIFICATIONS OF THE STATE OF
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING
CHANGES AND SUPPLEMENTAL SPECIFICATIONS
LISTED IN THE PROPOSAL SHALL GOVERN THIS
IMPROVEMENT.

ENGINEER'S SEAL	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
	BP-3.1 7/28/00	
	BP-4.1 7/28/00	
	MT-97.11 4/19/02	
	MT-99.20 1/30/95	
SIGNED		
DATE 10/8/02		

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.

APPROVED _____
DATE _____ COUNTY ENGINEER





SCHEMATIC PLAN

MUS - C.R. 44, 385, 196

4

CALCULATED
K7/S
CHECKED
77HL



GENERAL NOTES

COMMENCEMENT OF WORK

THE CONTRACTOR SHALL NOTIFY THE MUSKINGUM COUNTY ENGINEERING OFFICE (740) 454-0155 FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON THE PROJECT, HOLIDAYS AND WEEKENDS EXCLUDED.

MINIMIZING THE CONSTRUCTION IMPACTS TO THE AREA RESIDENTS AND BUSINESSES IS A PRIMARY CONCERN OF THIS CONTRACT. THEREFORE, THE CONTRACTOR SHOULD PLAN HIS WORK TO PROVIDE THE LEAST DISTURBANCE AND BE PREPARED TO RESPOND TO RESIDENTS' CONCERNS IN A PROFESSIONAL AND PROMPT MANNER.

SAFETY REQUIREMENTS

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, OR THE MOST CURRENT VERSION THEREOF, DURING THE CONDUCT AND PERFORMANCE ON AND IN CONNECTION WITH THIS PROJECT.

ITEM 614 - WORK ZONE MARKING SIGNS

A QUANTITY FOR EACH OF THE FOLLOWING SHALL BE CARRIED TO THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER:

- A - WORK ZONE MARKING SIGNS
- B - "NO EDGE LINE" (OW-167)
- C - "UNMARKED NO PASSING ZONES" (OW-168)

ITEM	A	B	C
EACH	35	18	18

EXTRA ASPHALT FOR PRE-LEVELING

A QUANTITY OF 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE DIRECTION OF THE ENGINEER FOR PRE-LEVELING WHERE THE PAVEMENT IS LOW OR DETERIORATED. THE QUANTITY OF ITEM 448 SHALL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 448 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, AC-20 = 194 CU. YD.

UNDERGROUND UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THESE PLANS. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY UNDERGROUND UTILITIES THAT MAY EXIST UNDER OR ADJACENT TO THE WORK AREA. IN THE EVENT OF UNFORESEEN CIRCUMSTANCES OR UNUSUAL CONDITIONS, THE FOLLOWING LIST OF ALL UTILITY OWNERS IS PROVIDED TO THE CONTRACTOR AND PROJECT ENGINEER FOR NOTIFICATION OF UTILITY OWNERS.

UTILITIES OWNERS

ADELPHIA COMMUNICATIONS
334 GEST STREET
TOWNVIEW CENTER
CINCINNATI, OHIO 45203
513-333-0702

COLUMBIA GAS OF OHIO *
2429 LINDEN AVENUE
ZANESVILLE, OHIO 43701
740-458-5467 EXT. 111

EAST MUSKINGUM WATER *
375 RICHARDS ROAD
ZANESVILLE, OHIO 43701
740-453-0678

AMERITECH *
160 N. SIXTH STREET
ZANESVILLE, OHIO 43701
740-454-3514

ENERGY COOPERATIVE *
1500 GRANVILLE ROAD
NEWARK, OHIO
1-800-445-2390

AEP
1900 LICKING ROAD
ZANESVILLE, OHIO 43701
1-800-672-2231

GUERNSEY MUSKINGUM ELECTRIC
17 S. LIBERTY
NEW CONCORD, OHIO 43762
740-454-0770

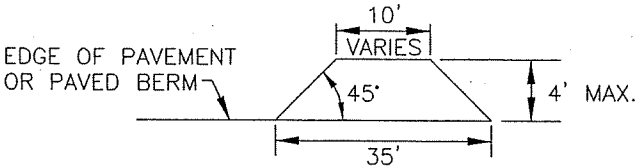
TIME WARNER COMMUNICATIONS
737 HOWARD STREET
ZANESVILLE, OHIO 43701
740-455-9705

* OUPS MEMBER

RESIDENCE AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 448 - ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLANS TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS OF EXISTING DRIVEWAYS. PAVING SHALL EXTEND A MAXIMUM OF 4 FEET INTO THE DRIVEWAY, MEASURED FROM THE EDGE OF PAVEMENT OR PAVED BERM. THICKNESS SHALL BE APPROXIMATELY THE SAME AS THE ROADWAY PAVEMENT. FIELD DRIVES AND OIL WELL DRIVES WILL NOT BE PAVED.

PAVEMENT FOR DRIVES SHALL BE INCLUDED IN ITEM 448 - SURFACE CONCRETE COURSE, TYPE 1, AC-20.



$$\left[\left(\frac{10+35}{2}\right) \times (4') \times (1' / 12)\right] \div 27 = 0.28 \text{ CY} \times 71 = 20 \text{ CY}$$

ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 = 20 CY

ALIGNMENT AND PROFILE

THE WORK PROPOSED BY THIS PROJECT IS THE RESURFACING OF THE EXISTING PAVEMENT. THE ALIGNMENT AND THE PROFILE OF THE EXISTING PAVEMENT WILL NOT BE CHANGED. THE EXISTING SURFACE WILL BE MILLED TWO INCHES TO ALLOW FOR THE TWO INCHES OF ASPHALT CONCRETE THAT WILL BE PLACED ON THE ROADWAY.

MAINTENANCE OF TRAFFIC

LANE RESTRICTIONS SHALL BE PERMITTED, ALTHOUGH ACCESS TO LOCAL RESIDENTS AND BUSINESSES SHALL BE PROVIDED. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CONTROL OF ONE-WAY TRAFFIC

IN ADDITION TO THE REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND MATERIAL SPECIFICATIONS, THE FOLLOWING REQUIREMENTS SHALL APPLY: COMMUNICATION BETWEEN FLAGGERS BY TWO-WAY RADIO DURING THE PAVING OPERATIONS.

PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC AND SHALL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 203 - EMBANKMENT CONSTRUCTION

AS DIRECTED BY THE ENGINEER, EMBANKMENT CONSTRUCTION SHALL CONSIST OF PREPARATION OF THE AREAS UPON WHICH EMBANKMENTS ARE TO BE PLACED, THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN ROADWAY AREAS WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED, AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLES, PITS AND OTHER DEPRESSIONS WITHIN THE ROADWAY AREA. ONLY APPROVED MATERIALS SHALL BE USED IN THE CONSTRUCTION OF EMBANKMENTS AND BACKFILLS. FROZEN MATERIAL SHALL NOT BE PLACED IN THE EMBANKMENT NOR SHALL EMBANKMENT BE PLACED ON FROZEN MATERIAL. THE QUANTITY OF ITEM 203 SHALL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 203 - EMBANKMENT CONSTRUCTION = 10 CY

RIGHTS-OF-WAY

THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY AND/OR EASEMENTS. THE COST OF THE OPERATION NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

GENERAL NOTES

ITEM 407 -- TACK COAT

THE RATE OF APPLICATION OF ITEM 407 -- TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AVERAGE APPLICATION RATES OF 0.075 GALLONS PER SQUARE YARD OF TACK FOR ESTIMATING PURPOSES ONLY.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. (THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.)

SIGNS, FENCES, DRAINAGE STRUCTURES, ETC.

ALL SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL PERMITS, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.

ITEM 201 -- CLEARING AND GRUBBING

AS DIRECTED BY THE ENGINEER, THIS ITEM SHALL INCLUDE CLEARING, GRUBBING, SCALPING, REMOVAL OF TREES AND STUMPS, AND REMOVING AND DISPOSING OF ALL VEGETATION AND DEBRIS WITH THE LIMITS OF THE RIGHT-OF-WAY AND EASEMENT AREA. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 -- CLEARING AND GRUBBING AND SHALL BE CARRIED TO THE GENERAL SUMMARY.

MISCELLANEOUS WORK

EACH BIDDER MUST INFORM HIMSELF FULLY TO THE CONDITIONS RELATING TO THE CONSTRUCTION PROJECT. FAILURE TO DO SO WILL NOT RELIEVE A SUCCESSFUL BIDDER OF HIS OBLIGATION TO FURNISH ALL MATERIALS AND LABOR NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT.

THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION OF THE AREAS TO FAMILIARIZE HIMSELF WITH THE SCOPE OF CONSTRUCTION.

THE CONTRACTOR'S BID SHALL BE COMPREHENSIVE AND INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL EXCAVATION, FILL AND GRADING IN ACCORDANCE WITH ENGINEERING AND SPECIFICATIONS.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL.

ALL ITEMS OF WORK CALLED FOR IN THE CONSTRUCTION DRAWINGS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE PROJECT AS DESIGNED AND INTENDED. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS RELATED OR ASSOCIATED ITEMS.

ITEM 617 -- RECONDITIONING SHOULDERS

MATERIAL USED FOR THE RECONDITIONING OF SHOULDERS SHALL BE RECLAIMED ASPHALT CONCRETE PAVEMENT (RACP). ALL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS STATED IN ITEM 617. QUANTITIES ARE AS SHOWN ON THE SHEET ENTITLED PAVEMENT AND SHOULDER TREATMENT, SUB-SUMMARY.

ITEM 203 -- LINEAR GRADING

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED TO CORRECT DRAINAGE AT THE DIRECTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE PAID FOR AT THE UNIT PRICE BID PER STATION FOR ITEM 203 -- LINEAR GRADING.

ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER GRADING IS COMPLETED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN A PROPER AND LEGAL MANNER.

THE QUANTITY OF ITEM 203 SHOWN BELOW SHALL COMPRISE THE LINEAR GRADING OPERATION ON BOTH SIDES OF THE HIGHWAY AND SHALL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 203 -- LINEAR GRADING = 234 STATIONS

SURVEYING

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASE OF WILLFUL OR CARELESS DESTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR, AS APPROVED BY THE ENGINEER.

RESTORATION AND DAILY/FINAL CLEANUP

THE CONTRACTOR SHALL REMOVE ALL DEBRIS, RUBBLE, SPOILS, AND CONSTRUCTION MATERIALS FROM THE ADJACENT STREETS, ALLEYS AND/OR DRIVES AND LEAVE THE SITE IN A NEAT AND ORDERLY MANNER AT THE END OF EACH DAY. IF THE CONSTRUCTION OPERATIONS ENCOUNTER MUDDY CONDITIONS, MUD SHALL NOT BE ALLOWED TO ACCUMULATE IN THE STREETS. AFFECTED STREETS, ALLEYS, AND/OR DRIVES SHALL BE SWEEPED ON A REGULAR BASIS EITHER WITH THE USE OF EQUIPMENT OR BY HAND. THE ACCUMULATED DEBRIS SHALL BE DISPOSED OF IN A PROPER AND LEGAL MANNER.

WHEN PERFORMING FINAL CLEANUP, THE CONTRACTOR SHALL CLEAN UP ALL MATERIALS AND DEBRIS RESULTING FROM HIS WORK AND DISPOSE OF THEM IN A PROPER AND LEGAL MANNER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PAYMENT FOR RELATED OR ASSOCIATED WORK AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES

MUS - C.R. 44, 385, 196

GENERAL NOTES

ITEM SPECIAL -- MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLANS OR OTHERWISE ESTABLISHED BY THE ENGINEER.

MATERIALS

WOOD POSTS SHALL BE NOMINAL 4" x 4" SQUARE OR 4" DIAMETER AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" INSIDE DIAMETER AND CONFORM TO AASHTO M181. HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.

SETTING POSTS

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

MOUNTING BOXES

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION AND NO MORE THAN TWO MAILBOXES SHALL BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE 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 AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING OF HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

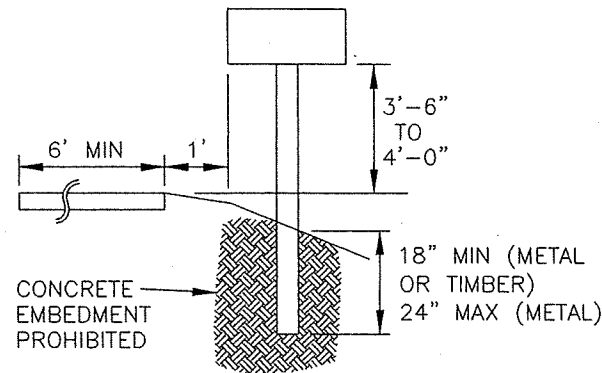
BASIS OF PAYMENT

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

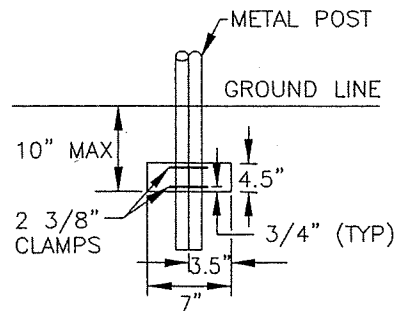
MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR THE TYPE SPECIFIED, COMPLETE IN PLACE.

THE QUANTITIES SHOWN BELOW SHALL BE CARRIED TO THE GENERAL SUMMARY.

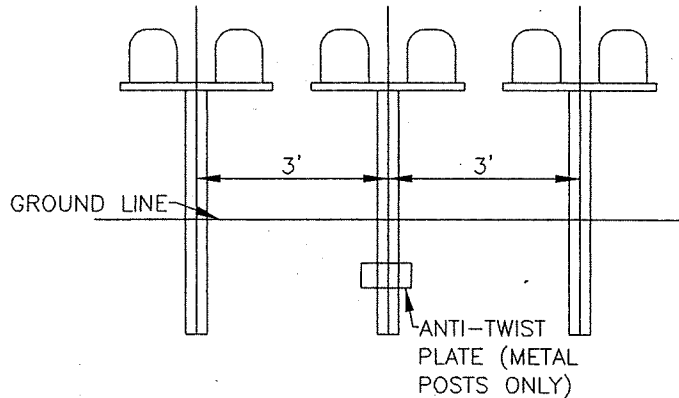
ITEM	UNIT	DESCRIPTION
SPECIAL	27	MAILBOX SUPPORT, (SINGLE)
SPECIAL	8	MAILBOX SUPPORT, (DOUBLE)



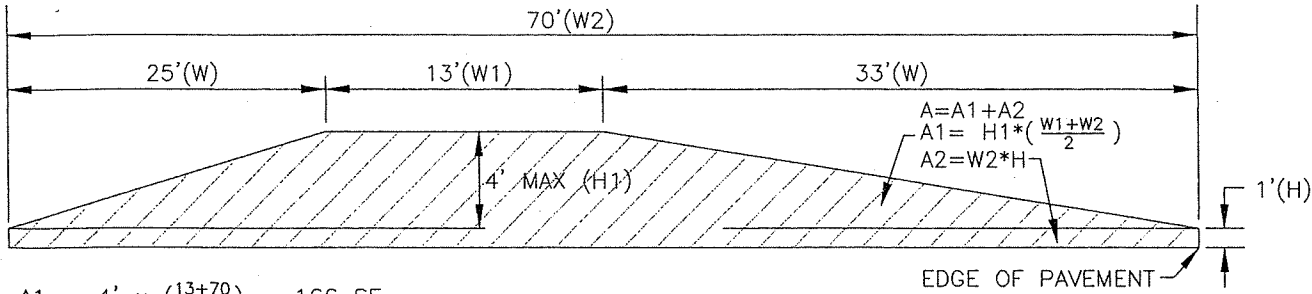
MAILBOX INSTALLATION



ANTI-TWIST PLATE



GROUPED MAILBOX INSTALLATION

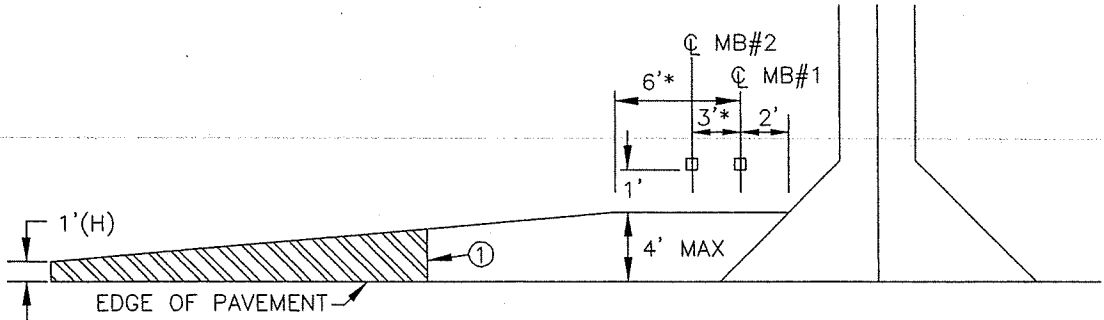


$$A1 = 4' \times \left(\frac{13+70}{2} \right) = 166 \text{ SF}$$
$$A2 = 70' \times 1' = 70 \text{ SF}$$
$$A = 70+166 = 236 \text{ SF}$$
$$\left[(236 \text{ SF}) \times (1'/12) \right] \div 27 = 0.7 \text{ CY} \times 35 = 26 \text{ CY}$$

MAILBOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN APPROVED IN THE PLANS TO COVER MAILBOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAILS BELOW. SEE DRAWING BP-4.1, 7/28/00 FOR ADDITIONAL INFORMATION. THE QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 = 26 CY

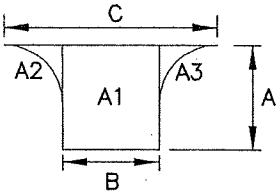
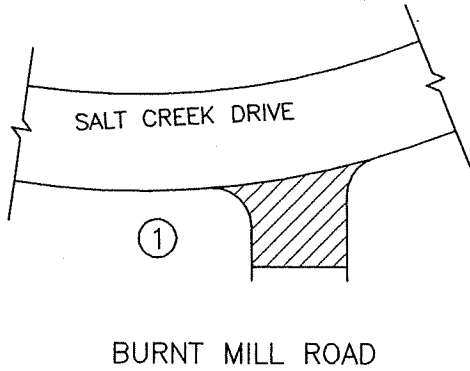
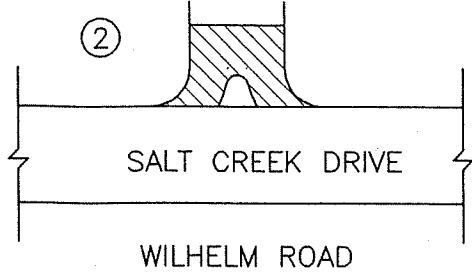
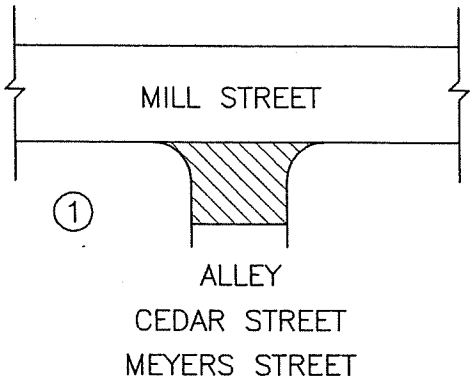
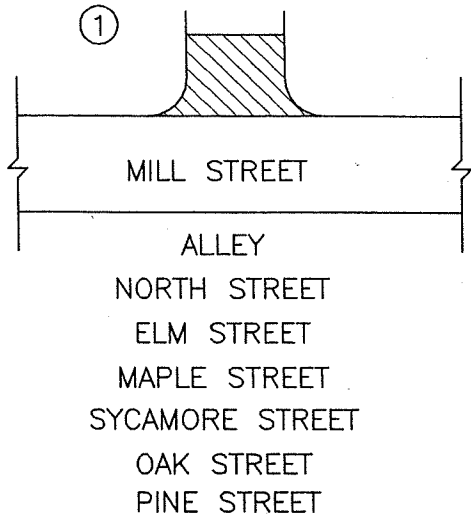


* ADD 3.0' FOR EACH ADDITIONAL MAILBOX

① END MAILBOX TURN OUT AT EDGE OF PAVED SHOULDER OR 1', WHICHEVER IS GREATER

DRIVE WITH MAILBOX APPROACH

INTERSECTIONS



COUNTY	ROUTE	STATION	SIDE	DISTANCES			AREA		254	407	448	448	REMARKS
				A	B	C			PAVEMENT PLANING 2" NOMINAL THICKNESS	TACK COAT @ 0.075 GAL/SY	1" ASPHALT CONCRETE TYPE 1	1" ASPHALT CONCRETE TYPE 2	
				LIN. FT.	LIN. FT.	LIN. FT.	SQ. FT.		SQ. YD.	GAL	CU. YD.	CU. YD.	
MUSKINGUM													
	ALLEY	1+45	RT	30	15	35	550		61	9	2	2	
	ALLEY	1+46	LT	30	15	35	550		61	9	2	2	
	NORTH STREET	3+03	LT	30	20	40	700		78	12	2	2	
	ELM STREET	6+58	LT	30	20	35	656		73	11	2	2	
	MAPLE STREET	11+82	LT	30	20	35	656		73	11	2	2	
	SYCAMORE STREET	13+40	LT	30	15	30	506		56	8	2	2	
	CEDAR STREET	15+11	RT	30	20	45	756		84	13	2	2	
	OAK STREET	16+69	LT	30	25	45	850		94	14	3	3	
	PINE STREET	20+01	LT	30	20	50	826		92	14	3	3	
	MEYERS STREET	20+22	RT	30	20	35	656		73	11	2	2	
	MAST RD.	86+57	LT	40	20	70	1,425		158	24	5	5	
	WILHELM RD.	110+41	LT	70	30	150	5,060		562	84	15	15	
	BURNT MILL RD.	142+16	RT	30	20	70	1,225		136	20	5	5	
TOTALS CARRIED TO GENERAL SUMMARY									1,685	253	47	47	

PAVEMENT CALCULATIONS

1 TYPICAL INTERSECTION

AREA = A1 + A2 + A3 = 800 + 312.5 + 312.5 = 1,425 SF
A1 = ('A' x 'B') = 40' x 20' = 800 SF
A2 = A3 = [(C-B')^2] ÷ 2 = [(70-20)^2] ÷ 2 = 312.5 SF
ITEM 254 (1,425/9) = 158 SY
ITEM 407 [(1,425/9) x 0.075 = 12 GAL x 2 = 24 GAL
ITEM 448 TYPE 1 & 2 [1,425 x (1"/12)] ÷ 27 = 5 CY

2 WILHEIM ROAD

AREA = A1 + A2 + A3 - A4 = 2,100 + 1,800 + 1,800 - 640 = 5,060 SF
A1 = 70' x 30' = 2,100 SF
A2 = A3 = [(150-30)^2] ÷ 2 = 1,800 SF
A4 = (6+26) x 40 = 640 SF
ITEM 254 (5,060/9) = 562 SY
ITEM 407 [(5,060/9) x 0.075 = 42 GAL x 2 = 84 GAL
ITEM 448 TYPE 1 & 2 [5,060 x (1"/12)] ÷ 27 = 15 CY

PAVEMENT AND SHOULDER TREATMENT SUB-SUMMARY

A right triangle is shown with a vertical leg of 2 inches and a horizontal leg of 12 inches. The right angle is at the bottom-left vertex.

$$\begin{aligned} \text{AREA} &= \left[\frac{12 \times 2}{2} \right] \div 144 = 0.08 \text{ SF} \\ [(224' \times 0.08) \div 27] \times 2 &= 1 \text{ CY} \\ [(1,813' \times 0.08) \div 27] \times 2 &= 11 \text{ CY} \\ [(2,790' \times 0.08) \div 27] \times 2 &= 17 \text{ CY} \\ [(6,029' \times 0.08) \div 27] \times 2 &= 37 \text{ CY} \\ [(12,413' \times 0.08) \div 27] \times 2 &= 77 \text{ CY} \\ [(785' \times 0.08) \div 27] &= 2 \text{ CY} \end{aligned}$$

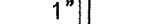


Diagram showing a rectangular area with a width of 1' and a length of 20'.

$$\text{AREA} = (1/12) \times 20 = 1.67 \text{ SF}$$

$$[(6,029' \times 1.67) \div 27] = 373 \text{ CY}$$

$$[(12,413' \times 1.67) \div 27] = 768 \text{ CY}$$

[illegible]