LOCATION MAP

LATITUDE: 41°02'44"

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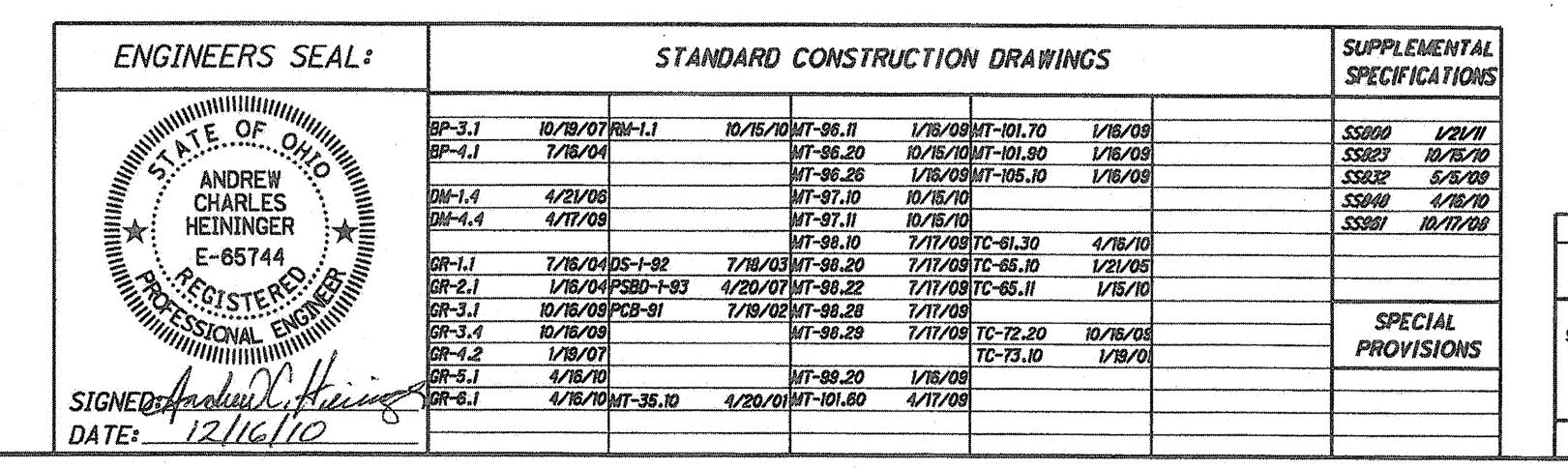
	MED-42	MED-42	MED-42	MED-42
	7.12-10.48	10.48-12.05	12.05-12.52	12.52-14.40
CURRENT ADT (2012): DESIGN YEAR ADT (2024): DESIGN HOURLY VOLUME (2024): DIRECTIONAL DISTRIBUTION: TRUCKS (24 HOUR B&C):	4,640	8,270	9,590	8,640
	5,060	9,360	11,720	9,050
	560	936	1172	905
	67%	66%	63%	63%
	560	562	469	362
	MED-42 7.12-11.44	MED-42 11.44-12.67	MED-42 12.67-14.40	

DESIGN FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR

NHS PROJECT ____________

DESIGN EXCEPTIONS: NONE

LEGAL SPEED: DESIGN SPEED:



STATE OF OHIO, DEPARTMENT OF TRANSPORTATION

MED-42-7.12

HARRISVILLE TOWNSHIP WESTFIELD TOWNSHIP LAFAYETTE TOWNSHIP MEDINA COUNTY

INDEX OF SHEETS:

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PROJECT DESCRIPTION

RESURFACING, INCLUDING PAVEMENT PLANING, PAVEMENT REPAIRS, GUARDRAIL REPAIR, TRAFFIC CONTROL ITEMS, AND STRUCTURE MAINTENANCE.

PROJECT EARTH DISTURBED AREAS ESTIMATED CONTRACTOR EARTH DISTRURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

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 IN THE PLANS AND ESTIMATES.

DATE 2-10-11 DIRECTOR, DEPARTMENT OF TRANSPORTATION

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES CALL TWO WORKING DAYS

BEFORE YOU DIG

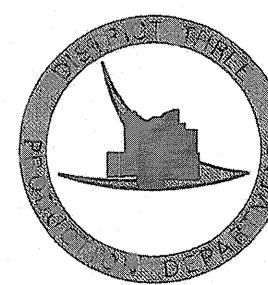
1-800-362-2764 (TOLL FREE)

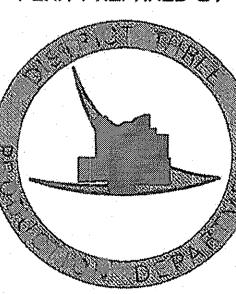
OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CALLED DIRECTLY

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

PLAN PREPARED BY:

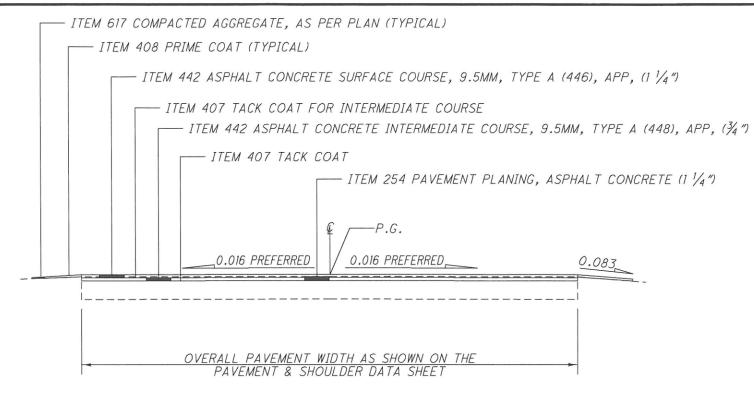




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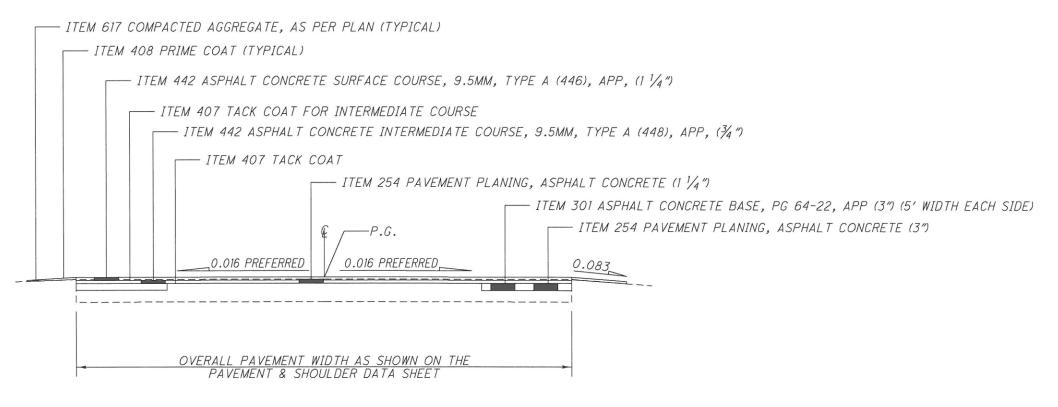
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7.12	7.14 OVER U.S. 224	- 7.24 - 7.26	RAMP - 7.54	7.84	RODGERS RD (TR 98)	MED-42-0945 BRIDGE SFN 5201454	9.93	- 10.48	COON CLUB RD (TR 67)	- 11.56	MED-42-1179 BOX SFN 5201462	MED-42-1229 BRIDGE SFN 5201497	CHATHAM RD SR 162	MED-42-1264 BRIDGE SFN 5201535	SPENCER LAKE RD (CR 45)	SPENCER LAKE RD (CR 45)	CARLTON RD (TR 161)	COLUMBIA RD (CR 24)	13.54	MED-42-1370 BRIDGE SFN 5201586	11.56	USR 42	14.40 INA CORP LIMIT
BEGIN WORK RAMP	MED-42-0714 BRIDGE SFN 5201381	RAMP	7.27 HARRIS RD (TR 149)	KENNARD RD (CR 78)	8,73	9.45	CHIPPEWA RD	FRIENDSVILLE RD (CR 35)	11.33	WESTFIELD RD (CR 15)	11.79 WEDGEWOOD RD	12,29	12.52	12.64	12.80	12.87	12.97	13.38	XS	13.70	DEERVIEW RD		END WORK CITY OF MEDINA



TYPICAL 1 NORMAL SECTION US 42

MED-42-7.12 TO 7.40



TYPICAL 2 NORMAL SECTION US 42 (RUTTING REPAIR)

MED-42-7.40 TO 14.40

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

FONTIER BRENT FIALA 6223 NORWALK ROAD MEDINA, OHIO 44256 (330) 722-9453 MEDINA CO. SANITARY ENGINEER (WATER) AMY LYON-GALVIN 791 WEST SMITH ROAD MEDINA, OHIO 44256 (330) 723-9579

TIME WARNER CABLE DAVE ROUSH 1575 LEXINGTON AVE. MANSFIELD, OHIO 44901 (419) 756-6091 x5136

OHIO EDISON NATALIE CAMP 6326 LAKE AVE ELYRIA, OHIO 44035 (440) 326-3319

COLUMBIA GAS OF OHIO DAN SUREN 7080 FRY ROAD MIDDLEBURG HEIGHTS, OHIO 44130 (440) 891-2428

ARMSTRONG UTILITIES BRIAN KEITH 1141 LAFAYETTE ROAD MEDINA, OHIO 44256 (330) 722-3141 x224

UTILITIES

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

EXISTING PLANS

EXISTING PLANS ENTITLED MED-42 MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND, OHIO.

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.

PROGRESSION OF WORK

GUARDRAIL SHALL BE REMOVED PRIOR TO ANY EMBANKMENT WORK AT THE GUARDRAIL RUN. GUARDRAIL WORK SHALL BE DONE AFTER RESURFACING AND BERM WORK SO AS TO ESTABLISH PROPER GRADES FROM WHICH TO CONSTRUCT THE RAIL.

<u>ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN</u>

ON THIS PROJECT ITEM 301 COARSE AGGREGATE SHALL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT SHALL BE 30%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE ITEM 301 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG. THE IN-PLACE BINDER SHALL BE PG64-22.

ALL COSTS TO BE INCLUDED IN ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN.

<u>ITEM 442, ASPHALT CONCRETE SURFACE</u> 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 (W8-1-36) 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.

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 Ndes USE 50 GYRATIONS, FOR Nmax 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 ADEOUATE
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.

ITEM 442. ASPHALT CONCRETE INTERMEDIATE COURSE. 9.5MM, TYPE A (448), AS PER PLAN

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.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS: MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax 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.
OUALITY CONTROL: DO NOT PERFORM Nmax IN QUALIT

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

ITEM 407. TACK COAT ITEM 407. TACK COAT FOR INTERMEDIATE COURSE

AS PER 407.06 THE APPLICATION RATES SHALL BE 0.08 GAL. PER SO. YD. PRIOR TO THE INTERMEDIATE COURSE AND SHALL BE 0.04 GAL PER SO. YD. PRIOR TO THE SURFACE COURSE FOR ESTIMATING PURPOSES ONLY. THE RATE OF APPLICATION SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. A COMPLETE PAVEMENT SURFACE COVERAGE SHALL BE REQUIRED. AREAS OF TACK STRIPPED BY CONSTRUCTION EQUIPMENT OR TRAFFIC SHALL BE RE-COATED PRIOR TO PLACING ASPHALT CONCRETE. ALL COSTS AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER GALLON FOR ITEM 407, TACK COAT AND ITEM 407 TACK COAT FOR INTERMEDIATE COURSE.

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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 BIDS WERE TAKEN.

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).

INTERSECTING RAMPS SHALL BE PLANE AND PAVED TO THE END OF THE CHANNELIZING LINES AT THE GORE AREA. IF NO GORE MARKINGS ARE PRESENT, PLANE AND PAVE TO THE EXISTING PAVEMENT JOINT.

EXISTING PAVED DRIVES SHALL BE PAVED A MAXIMUM OF 4 FT.

EXISTING AGGREGATE DRIVES SHALL BE PAVED WITH ITEM 617 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, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS REMINDED OF SECTIONS 105.01, 107.07 & 614.02A OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ITEM 253, PAVEMENT REPAIR, MISC .: PARTIAL DEPTH

THIS ITEM 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 DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 6", AND AN AVERAGE DEPTH OF 5" AND AN AVERAGE WIDTH OF 3 FT FOR ESTIMATING PURPOSES. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301 OR ITEM 448 TYPE 2 MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 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 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 0" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". 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 TO THE TOP OF CONCRETE BASE ESTIMATED AT 5" TO 6" DEEP. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253 PAVEMENT REPAIR, MISC.: PARTIAL DEPTH. THE FOLLOWING ESTIMATED OUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

US 42 ITEM 253 PAVEMENT REPAIR, MISC .: PARTIAL DEPTH 250 CU. YD

APPROXIMATELY 90% OF THE REPAIR QUANTITIES ARE TRANSVERSE REPAIRS.

ITEM 254. PAVEMENT PLANING. ASPHALT CONCRETE

THE INTENT OF THE PLANING IS TO MILL THE THICKNESS SHOWN ON THE PAVEMENT AND SHOULDER DATA SHEET AT THE CENTER OF PAVEMENT AT NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.016 PREFERRED AND 0.010 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. THE 14 CALENDAR DAYS SHALL BE CONSIDERED AN INTERIM COMPLETION DATE (SECTION 108), AND FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07.

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

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.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN

ON THIS PROJECT ITEM 301 COARSE AGGREGATE SHALL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT SHALL BE 30%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE ITEM 301 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG. THE IN-PLACE BINDER SHALL BE PG64-22.

ALL COSTS TO BE INCLUDED IN ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN.

ITEM 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 ADJUSTABLE FRAMES.

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TEMPORARY TRAFFIC SIGNAL ACTIVATION FOR PARTIAL ROADWAY CLOSURE

THE CONTRACTOR SHALL NOTIFY ODOT DISTRICT 3 PUBLIC INFORMATION OFFICER (PIO) A MINIMUM OF TEN (10) CALENDAR DAYS ADVANCE NOTICE BEFORE ACTIVATING A TEMPORARY TRAFFIC SIGNAL TO STOP-AND-GO OPERATION FOR PARTIAL ROADWAY CLOSURE.

THE PIO CONTACT INFORMATION IS AS FOLLOWS:

JOYCE MILLER PUBLIC INFORMATION OFFICER ODOT DISTRICT 3 906 CLARK AVENUE ASHLAND, OH 44805 PHONE 419-207-7181

IN ADDITION, THE TEMPORARY TRAFFIC SIGNAL SHALL BE
ACTIVATED PER THE REQUIREMENTS OF ODOT SCD MT-96.11, MT-96.20
MT-96.26. THE TEMPORARY TRAFFIC SIGNAL SHALL OPERATE IN FLASH
MODE FIVE (5) TO SEVEN (7) DAYS PRIOR TO ACTIVATING
TO STOP-AND-GO OPERATION. SIGNAL ACTIVATION SHALL
NOT OCCUR ON WEEKENDS, MONDAYS, FRIDAYS, OR ANY DAY
IMMEDIATELY BEFORE OR AFTER A STATE OBSERVED HOLIDAY.

ALL COSTS ASSOCIATED WITH THE ABOVE DESCRIBED WORK SHALL BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.

BUTT JOINTS

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BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) 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.

ITEM 614, ASPHALI CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED OUANTITY 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, AS DIRECTED BY

ENGINEER. THIS OUANTITY SHALL ALSO BE USED AT PLANED SURFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS, AS DIRECTED BY THE ENGINEER. 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 TRAFFIC.

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 40 CU YD

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, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

LOCATION: SLIP RAMP ON SOUTHEAST CORNER OF MED-42-0714 STRUCTURE. TRAFFIC TO BE DIRECTED TO STOP SIGN FOR RIGHT HAND TURN. TEMPORARY ASPHALT PAVEMENT QUANTITIY HAS BEEN INCLUDED FOR MAINTAINING TRAFFIC FOR TRUCKS MAKING THE RIGHT TURN MOVEMENT.

ITEM 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: (W8-H12A-36) NO EDGE LINE WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE = 23 EACH = 23 EACH = 22 EACH

TOTAL = 68 EACH

<u> ITEM 614 - WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE</u> <u>HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)</u>

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE FOLLOWING IMPACT ATTENUATORS:

1. THE QUADGUARD CZ, (24 INCHES WIDE SIX-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE SIX-BAY QUADGUARD CZ IS 20'-9".
INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN
THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S
SPECIFICATIONS AS DETAILED ON THE FOLLOWING PREAPPROVED SHOP DRAWINGS:

DRAWING NUMBER: QSCZCVR-T4

DRAWING NAME: QUADGUARD CZ SYSTEM FOR

CONSTRUCTION ZONES

REVISION DATE: 5/13/99 REV. J ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-10

DRAWING NAME: OUADGUARD SYSTEM CONCRETE PAD,

CZ, QG

REVISION DATE: 11/19/97 REV. D ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER:

35-40-16

DRAWING NAME: QUADGUARD SYSTEM BACKUP ASSEMBLY,

CZ, QG

REVISION DATE: 7/30/99 REV. F ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 354051Z

DRAWING NAME: QUADGUARD CZ SYSTEM NOSE ASSEMBLY,

CZ, QG, 24, 30, 36

REVISION DATE: 5/17/99
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-18

DRAWING NAME: TRANSITION ASSEMBLY, 4 OFFSET, QG

REVISION DATE: 6/25/99 REV. F ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35400260

DRAWING NAME:

QUADGUARD SYSTEM PCMB ANCHOR

ASSEMBLY

REVISION DATE: 11/19/97 REV. C ODOT APPROVAL DATE: 8/27/99

2. THE TRACC (TRINITY ATTENUATING CRASH CUSHION)
MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE
STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE TRACC IS 21'-0" LONG AND 2'-7" WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER:

SS450

DRAWING NAME: CRASH-CUSHION ATTENUATING TERMINAL

PLAN, ELEVATION & SECTIONS

REVISION DATE: 3/12/99 REV. 1
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS455

DRAWING NAME: TRACC TRANSITION TO W-BEAM MEDIAN

BARRIER PLAN, ELEVATION & SECTIONS

REVISION DATE: 2/18/99
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS46

DRAWING NAME: TRACC TRANSITION TO CONCRETE SAFETY

SHAPE BARRIER PLAN, ELEVATION &

SECTIONS

REVISION DATE: 6/30/99 REV. 1 ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS462

DRAWING NAME: TRACC TRANSITION TO CONCRETE BARRIER

SINGLE SLOPE PLAN, ELEVATION &

SECTIONS

REVISION DATE: 6/30/99
ODOT APPROVAL DATE: 8/27/99

3. THE BARRIER SYSTEMS, INC. TAU-II IMPACT ATTENUATOR, DISTRIBUTED BY ROAD SYSTEMS INC., SALES SUPPORT, 2183 ELM TRACE, AUSTINTOWN, OH 44515, (TELEPHONE 330-799-9291)

THE TAU-II FOR THIS NOTE IS A PARALLEL 8-BAY UNIT (24' LONG AND 35" WIDE). INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIEDIN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: A040416

DRAWING NAME: UNIVERSAL TAU-II PARTS LIST

REVISION DATE: 4/22/04 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040420

DRAWING NAME: UNIVERSAL TAU-II FOUNDATION,

FLUSH MOUNT BACKSTOP

REVISION DATE: 4/28/04
ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER:

DRAWING NAME: UNIVERSAL TAU-II FOUNDATION,

PCB BACKSTOP (REFERENCED ON A04020)

REVISION DATE: 1/07/04
ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: BO40239

DRAWING NAME: APPLICATION, FLUSH MOUNT BACKSTOP (TYPICAL FOR PARALLEL 60 MPH UNIT)

REVISION DATE: 4/21/04 ODOT APPROVAL DATE: 10/16/04

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.



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ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-42-0714:

TWO WAY TRAFFIC ON STRUCTURE MED-42-0714 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THIS STRUCTURE SHALL HAVE A SIGNALIZED CLOSURE AS SHOWN ON (SHEETS 31 & 32) FOR A MAXIMUM OF FORTY TWO (42) CONSECUTIVE CALENDAR DAYS (TOTAL BOTH PHASES). THE FORTY TWO (42) CONSECUTIVE DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE FORTY TWO (42) CALENDAR DAYS THAT THE HIGHWAY REMAINS IN A SIGNALIZED CLOSURE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED OTHER THAN BEHIND THE BARRIER.

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

ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURE MED-42-0945:

TWO WAY TRAFFIC ON STRUCTURE MED-42-0945 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THIS STRUCTURE SHALL HAVE A SIGNALIZED CLOSURE AS SHOWN ON (SHEETS 31 & 32) FOR A MAXIMUM OF THIRTY (30) CONSECUTIVE CALENDAR DAYS (TOTAL BOTH PHASES). THE THIRTY (30) CONSECUTIVE DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE THIRTY (30) CALENDAR DAYS THAT THE HIGHWAY REMAINS IN A SIGNALIZED CLOSURE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH CMS 108.07-1.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED OTHER THAN BEHIND THE BARRIER.

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

PAVING AT RAILROAD CROSSINGS

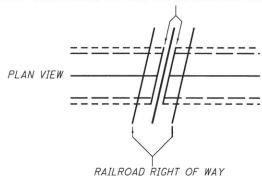
PRIOR TO ANY WORK AT RAILROAD CROSSINGS THE CONTRACTOR SHALL CONTACT THE AFFECTED RAILROAD AUTHORITY SO AS TO MAKE THEM AWARE OF THE PROGRESS AND SCHEDULE OF WORK. THE CONTRACTOR SHALL COOPERATE WITH THE RAILROAD SO AS TO ELIMINATE ANY SAFETY CONCERNS. FLAGGING WILL BE REQUIRED BY THE RAILROAD. ODOT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

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 FLEVATION.

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

DETAIL - PAVING AT RAILROAD CROSSING

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



NOTE: 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.

<u>ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)</u>

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

FOURTH OF JULY NEW YEARS LABOR DAY MEMORIAL DAY **THANKSGIVING** MEDINA COUNTY FAIR - BEGINNING THE WEDNESDAY PRECEDING THE MEDINA COUNTY FAIR OPENING TO THE MONDAY FOLLOWING THE CLOSE OF FAIR WEEK

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

12:00N FRIDAY THROUGH 6:00 AM MONDAY SUNDAY 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 IN ACCORDANCE WITH CMS 108.07-1.

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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. DISPOSE OF THE EXISTING SUPPORTS AND HARDWARE ACCORDING TO 202.02.

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 ACCOMODATE THE COMPLETE INSTALLATION. SUPPORT HARDWARE SHALL ACCOMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO MAILBOXES MAY BE MOUNTED ON A SINGLE POST. EHARDWARE SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.]

WOOD POSTS SHALL BE NOMINAL 4 IN. \times 4 IN. (S4S) OR $41_2'$ IN. 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 ACCOMODATE THE GROUPING.

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

PAYMENT FOR THE MAILBOX SUPPORTS COMPLETE IN PLACE, INCLUDING REMOVAL AND DISPOSAL OF THE EXISTING MAILBOX SUPPORT, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. THE FOLLOWING ESTIMATED OUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE.

ITEM SPECIAL-MAILBOX	SUPPORT	SYSTEM,	SINGLE	18 EAC	ÌΗ.
ITEM SPECIAL -MAILBOX	SUPPORT	SYSTEM.	DOUBL F	3 FACE	Н

MAILBOX APPROACHES

THE MAILBOX APPROACHES SHALL BE PAVED WITH 0.75" ITEM 442 INTERMEDIATE COURSE AND 1.25" ITEM 442 SURFACE COURSE. THEY SHALL CONFORM AS MUCH AS PRACTICAL TO STANDARD DRAWING BP-4.1 OR AS DIRECTED BY THE ENGINEER.

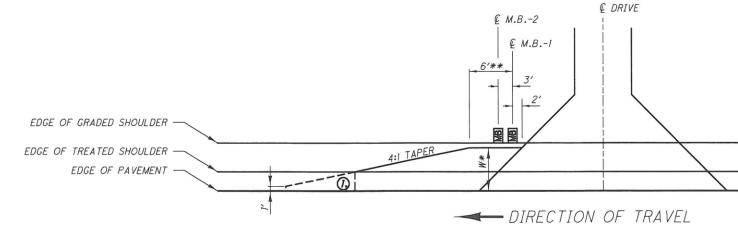
GRADING SHALL BE PERFORMED IN THESE AREAS TO OBTAIN A BASE WHICH WILL ALLOW THE FINISHED GRADE TO BE FLUSH WITH ADJACENT PAVEMENT. A QUANTITY OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED FOR AREAS WHERE THE SHOULDER IS LOW PRIOR TO GRADING AND/OR LOW AREAS CAUSED BY THE REMOVAL OF UNSUITABLE MATERIAL.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

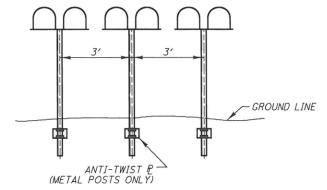
ITEM 209 - GRADING MAILBOX	(APPROACHES	29 EACH
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<u>LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE</u> <u>REPLACED</u>

ADDRESSES AND/OR LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED:

NORTHBOUND - US 42 5651	SOUTH 5720	HBOUND - US 42
5665	6020	(BESIDE)
57 4 5 5919	6280 6472	(DOUBLE) (DOUBLE)
6235	6620	(DOODLL)
6698	7300 7510	
6984 7317	7556	
7381	7654	(NO MAILBOX ON TOP)
	7741	(DOUBLE)
	7845 7895	(DOUBLE)
	7938	(ALSO REMOVE STEEL
	7050	POST W/ NO MAILBOX)
	7959	





GROUP MAILBOX INSTALLATION

(1) END MAILBOX TURNOUT AT EDGE OF TREATED SHOULDER OR I' WHICH EVER IS GREATER.

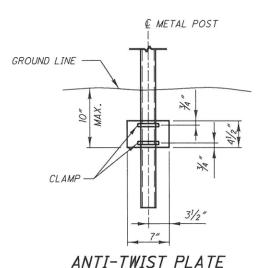
W* NOTES
I) WHERE EXISTING STANDARD MAILBOX POSTS ARE BEHIND GUARDRAIL AND ARE TO REMAIN IN PLACE, TURNOUT WIDTH SHALL EXTEND TO FACE OF GUARDRAIL.
2) WHERE NO GUARDRAIL IS REQUIRED, TURNOUT WIDTH SHALL EXTEND TO FACE OF EXISTING STANDARD MAILBOX WITH MAILBOX REMAINING IN PLACE.
3) IF THE MAILBOX SUPPORT IS SPECIFIED TO BE REMOVED AND REERECTED OR

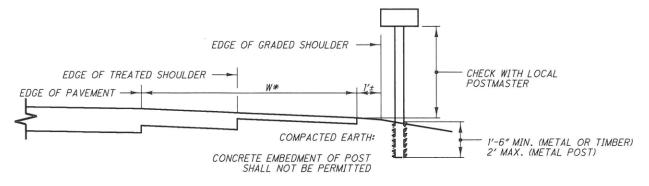
OF EXISTING STANDARD MAILBOX WITH MAILBOX REMAINING IN PLACE.

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. MAXIMUM, EXCEPT WHERE FIELD CONDITIONS WILL NOT PERMIT.

** NOTE 1) 6' FOR SINGLE MAILBOX SUPPORT, ADD 3 FT. FOR EACH ADDITIONAL MAILBOX.





CROSS SECTION / ELEVATION VIEW



ı I			SHEET	NUMBER		 	RURAL	URBANIZED	ITEM	ITEM	TOTAL	UNIT	BECODIRTION	REF.	F.
	11				13		TOTAL	ONDAMIZED	TIEM	EXT.	TOTAL	UNIT	DESCRIPTION	SHEE	ΕT
			*						.				ROADWAY		
					725.00		725.00		202	38000	725	FT	GUARDRAIL REMOVED		
					1,065.63		1,065.63		202	38200	1,065.63	FT	GUARDRAIL REMOVED GUARDRAIL REMOVED FOR REUSE		
					16		16		202	42000	16	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A		
					4		4		202	42041	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T, AS PER PLAN		
					12		12		202	42810	12	EACH	ANCHOR ASSEMBLY REMOVED, TITE I, AS PER PLAN ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE E	16	
									1	7.2.0		- ZAON	ANCHOR ASSEMBLY REMOVED FOR REDSE, THEE		_
					20		20		202	47000	20	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED		
					211.00		211		203	20001	211		EMBANKMENT, AS PER PLAN	4	
															_
					21.41		21.41		209	15001	21.41	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN		
	14.10														
	14.16						14.16	0.28	209	60500	14,44	MILE	LINEAR GRADING		
	29 10						29		209	80000	29	EACH	GRADING MAILBOX APPROACHES		
	10						10		604	39500	10	EACH	MONUMENT BOX ADJUSTED TO GRADE		
					400.00		400.00		606	17000	400.00	F7	OURDON TYPE C		
					50	 	50.00		606	13000 13050	400.00 50.00	FT FT	GUARDRAIL, TYPE 5		
					1,065.63		1,065.63		606	16500	1,065.63	FT	GUARDRAIL, TYPE 5A GUARDRAIL REBUILT, TYPE 5		
					2,015.63		2,015.63		606	17000	2,015.63	FT	RAISING TYPE 5 GAURDRAIL		
							2,010.00		- 000	17000	2,010.00	· · · · · ·	NAIJING THE J GAONDARIE		
					3		3		606	26000	3	EACH	ANCHOR ASSEMBLY, TYPE B		
					13		13		606	26100	13	· · · · · · · · · · · · · · · · · · ·	ANCHOR ASSEMBLY, TYPE E		
					4		4		606	26500	4		ANCHOR ASSEMBLY, TYPE T		
					12		12		606	27850	12		ANCHOR ASSEMBLY REBUILT, TYPE E		
					4		4		606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE I		
					16		16		606	35140	16	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4		
					80		80		626	00100	80	EACH	BARRIER REFLECTOR		
						 	18		SPECIAL	69050100	18		MAILBOX SUPPORT SYSTEM, SINGLE	7	
							3		SPECIAL	69050200	3	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	7	
									1				DRAINA GE		
													DIAINAGE		
					30.0		30.0		603	06100	30	FŤ	15" CONDUIT, TYPE C		
													PAVEMENT		
	250						250		253	90000	250	CH VO	DAUGUGUT DEPARTS AND DAUGTER DEPARTS		
	122,080						122,080	2,268	253	01000	250 124,348		PAVEMENT REPAIR, MISC.: PARTIAL DEPTH	5	
	40,244						40,244	821	254	01000	41,065		PAVEMENT PLANING, ASPHALT CONCRETE (1.25" DEEP)		
	1,193						1,193	22	254	01600	1,215		PAVEMENT PLANING, ASPHALT CONCRETE (3.00" DEEP) PATCHING PLANED SURFACE		
	3,349						3,349	68	301	46001	3,417		ASPHALT CONCRETE BASE, PG-64-22, AS PER PLAN		
										75007	3,111	00 10	ASTRACT CONCILETE DASE, FO-04-22, AS FEN FLAN	5	
	9,779						9,779	182	407	10000	9,961	GALLON	TACK COAT	4	
	4,889						4,889	91	407	14000	4,980		TACK COAT FOR INTERMEDIATE COURSE	4	
**************	7,407						7,407	145	408	10000	7,552		PRIME COAT		
	4,265			<u> </u>			4,265	80	442	00201	4,345	CU YD	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN	4	
	2,560						2,560	49	442	20101	2,609		ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN	4	
	77.4														
	774						774	16	617	10100	790		COMPACTED AGGREGATE		
							18,582	364 0.28	617	. 20000	18,946		SHOULDER PREPARATION		
	18520	·	1			1		0.28	618	41000	14.44	MILE.	LEDGE LINE DUNDLE CENTRE (LOCALLE CALLANDELLE	1 044	
	14.16				-		14.16	0.20	010	41000	14.44	WILL	EDGE LINE, RUMBLE STRIPE, (ASPHALT CONCRETE)	24A	١:
							14.15	0.20	010	41000	14.44	WILL	EUGE LINE, RUMBLE STRIPE, (ASPHALT CONCRETE))

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		SHEET NUMB	ER		RURAL	URBANIZED	175.4	ITEM	TOTAL	111.77		REF.	227
6	24	31	34		TOTAL	UKBANIZED	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SHEET	22
								ļ <u>.</u>					Τ
											TRAFFIC CONTROL	_	-
	506.00				506.00	10.00	621	00100	516	EACH	RPM		4
	506.00				506.00	10.00	621	54000	516	EACH	RAISED PAVEMENT MARKER REMOVED		-
										271077	17.10co Firement Inflittati Filmores		4
	14.28				14.28	0.28	642	00100	14.56	MILE	EDGE LINE, TYPE 1 (WHITE)		1
	0.01				0.01		642	00100	0.01	MILE	EDGE LINE, TYPE 1 (YELLOW)		1
	7.29				7.29	0.14	642	00300	7.43	MILE	CENTER LINE, TYPE I		1
	100.00]
	420.00				420.00		644	00400	420	FT	CHANNELIZING LINE		_]
	480.00 157.00				480.00		644	00500	480	FT	STOP LINE		_
	9.00				157.00		644	00700	<i>1</i> 57	FT	TRANSVERSE/DIAGONAL LINE (WHITE)		
	2.00				9.00		644 644	00900	9	SQ FT	ISLAND MARKING		4
	2.00				2.00		044	01000	2	EACH	RAILROAD SYMBOL MARKING		4
							<u> </u>			<u> </u>			4
										 	MAINTENANCE OF TRAFFIC		-
		4			4		614	12338	4	EACH	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)		-
9					68		614	12460	68	EACH	WORK ZONE MARKING SIGN		1
)					40		614	13000	40	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		1
		13	12		25		614	13202	25	EACH	BARRIER REFLECTOR, TYPE A2		1
		42			42		614	13302	42	EACH	BARRIER REFLECTOR, TYPE B2		1
													1
	01.40	0.06	0.06		0.12		614	21200	0.12	MILE	WORK ZONE CENTERLINE, CLASS 1, 740.06, TYPE 1]
	21.42	0.47			21.42	0.42	614	21500	21.84	MILE	WORK ZONE CENTER LINE, CLASS II, 642 PAINT]
	1260	0.47	0.22		0.69		614	22200	0.69	MILE	WORK ZONE EDGE LINE, CLASS 1, 740.06, TYPE 1		_
	1200				1260	-	614	23200	1260	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT		1
	408				408		614	20200	400		WARK TOUT OTOP (THE OLIVER)		4
	100	23	23		46		614	26200 26400	408 46	FT MILE	WORK ZONE STOP LINE, CLASS 1, 642 PAINT		-
			20		70		014	20400	40	MILE	WORK ZONE STOP LINE, CLASS 1, 740.06, TYPE I		4
		370			370		622	40020	370	FT	PORTABLE CONCRETE BARRIER, 32"		-
		740			740		622	40040	740	FT	PORTABLE CONCRETE BARRIER, 32" BRIDGE MOUNTED (UNANCHORED)		-
											Dibez moonies formonies		1
													1
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											STRUCTURES]
				·					······································		ALL STRUCTURE QUANTITIES ARE RURAL FUNDING		1
											MED-42-0714 SFN 5201381 SEE SHEET 25		1
											MED-42-0945 SFN 5201454 SEE SHEET 25 MED-42-1179 SFN 5201462 SEE SHEET 25		_
											MED-42-1179 SFN 5201462 SEE SHEET 25 MED-42-1229 SFN 5201497 SEE SHEET 25	-	-
											MED-42-1370 SFN 5201586 SEE SHEET 25		1
						<u> </u>				<u> </u>	THE TENED STATE OF THE PERSON		1
													1
							614	11000	LUMP		MAINTAINING TRAFFIC		
							619	16010	3	MONTH	FIELD OFFICE, TYPE B		1
							624	10000	LUMP		MOBILIZATION]
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			0.T.I.T	LEN	NGTH		*	-	PAVEMENT	254 PATCHING	PAVEMENT		O1 HALT	407 TACK	407 TACK		42 HALT	ASPH	42 HAL T	604	618		AGGREG SHOULD		209	408 PRIME	617 COMPACTED	6
	ROUTE	LOG P)	MILE	FEET	WIDTH FEET AVG.	TYPICAL	PAVEMENT AREA	PLANING, ASPHALT CONCRETE (1.25")	PLANED SURFACE	PLANING, ASPHALT CONCRETE (3.00")	CONCRET PG 64-22		COAT @ 0.08 GAL/SY	COAT FOR INTERM.	CONC SURFACE 9.5 TYPE	CRETE COURSE, MM, A (446), R PLAN	CONC INTERM COURSE, TYPE A	CRETE MEDIATE , 9.5MM, A (448),	MONUMENT BOX ADJUSTED TO GRADE	EDGE LINE, RUMBLE STRIPE, (ASPHALT CONCRETE)	PROI	POSED	AREA	LINEAR GRADING	COAT @ 0.40 GAL/SY	AGGREGATE 1.5 INCH	SHOULDER
		STRAIGH																			CONCILLY	SL	SR				AVG. THICK.	1 H
		MILE	AGE					SQ YD	SQ.YD	SQ.YD	SQ.YD	INCH	CU.YD.	GALLON	GALLON	INCH	CU.YD.	INCH (AVG	CU.YD.	EACH	MILE	FT	FT	SQ YD	MILE	GALLON	CU YD	SC
_			20000 100000																									
4	US 42	7.12	7.14	0.02	106	31.7	1	373	373	4				30	15	1.25	13	0.75	8		0.04	2.0	2.0	47	0.04	19	2	
-		7.14	7.20	0.06	317	33.5	1	1,180	0.07	8				C 4	70	T			T	SHOULDER WOR	T	T 0 0	T		1 2 22	T 70		
+		7.20	7.24	0.04	317	34.3 56.4	1	1,986	803 1,986	20				159	32 79	1.25	28 69	0.75	17		0.08	+	2.0	94	0.08	38	4	+
-		7.30	7.34	0.04	211	37.3	1	874	874	9				70	35	1.25	30	0.75	18		0.12	_	2.0	94	0.12	56 38	6	+
+		7.34	7.38	0.04	211	31.3	1	735	735	7				59	29	1.25	26	0.75	15	2	0.08	+	2.0	94	0.08	38	4	
+		7.38	7.40	0.02	106	29.2	1	344	344	3			-	28	14	1.25	12	0.75	7		0.04	+	2.0	47	0.08	19	2	+
+		7.40	7.50	0.10	528	29.2	2	1,713	1,713	17	587	3.00	49	137	69	1.25	59	0.75	36		0.20	+	2.0	235	0.04	94	10	2
+		7.50	8.00	0.50	2640	27.0	2	7,920	7,920	79	2,933	3.00	244	634	317	1.25	275	0.75	165		1.00	2.0	-	1,173	1.00	469	49	1
		8.00	9.00	1.00	5280	26.9	2	15,781	15,781	158	5,867	3.00	489	1,263	631	1.25	548	0.75	329	2	2.00	2.0	-	2,347	2.00	939	98	2
		9.00	9.41	0.41	2165	26.8	2	6,435	6,435	64	2,406	3.00	200	515	257	1.25	223	0.75	134		0.82	2.0		962	0.82	385	40	9
1		9.41	9.50	0.09	475	33.0	2	1,742	1,742	17	528	3.00	44	139	70	1.25	60	0.75	36		0.18	2.0	2.0	211	0.18	84	9	
		9.50	10.00	0.50	2640	26.8	2	7,847	7,847	78	2,933	3.00	244	628	314	1.25	272	0.75	163		1.00	2.0	2.0	1,173	1.00	469	49	1
		10.00	10.50	0.50	2640	27.0	2	7,920	7,920	79	2,933	3.00	244	634	317	1.25	275	0.75	165		1.00	2.0	2.0	1,173	1.00	469	49	1
		10.50	11.00	0.50	2640	27.0	2	7,920	7,920	79	2,933	3.00	244	634	317	1.25	275	0.75	165		1.00	2.0	2.0	1,173	1.00	469	49	1
		11.00	11.50	0.50	2640	27.3	2	7,993	7,993	80	2,933	3.00	244	639	320	1.25	278	0.75	167		1.00	2.0	2.0	1,173	1.00	469	49	1
		11.50	11.74	0.24	1267	27.3	2	3,836	3,836	38	1,408	3.00	117	307	153	1.25	133	0.75	80		0.48	2.0	2.0	563	0.48	225	23	
		11.74	11.82	0.08	422	36.5	2	1,711	1,711	17	469	3.00	39	137	68	1.25	59	0.75	36	2	0.16	2.0	2.0	188	0.16	75	8	
		11.82	12.00	0.18	950	27.0	2	2,850	2,850	29	1,056	3.00	88	228	114	1.25	99	0.75	59		0.36	2.0	2.0	422	0.36	169	18	
		12.00	12.50	0.50	2640	27.3	2	7,993	7,993	80	2,933	3.00	244	639	320	1.25	278	0.75	167	2	1.00	2.0	2.0	1,173	1.00	469	49	1
			13.00		2640	27.3	2	7,993	7,993	80	2,933	3.00	244	639	320	1.25	278	0.75	167		1.00	2.0		1,173	1.00	469	49	1
		13.00		+	 	+	2	8,067	8,067	81	2,933	3.00	244	645	323	1.25	280	0.75	168		1.00	2.0	2.0	1,173	1.00	469	49	1
		13.50	14.00	0.50		27.8	2	8,140	8,140	81	2,933	3.00	244	651	326	1.25	283	0.75	170	2	1.00	2.0		1,173	1.00	469	49	1
_		14.00	14.26	0.26	-	27.8	2	4,233	4,233	42	1,526	3.00	127	339	169	1.25	147	0.75	88		0.52	2.0		610	0.52	244	25	-
		14.26	14.40	0.14	739	27.3	2	2,238	2,238	22	821	3.00	68	179	90	1.25	78	0.75	47		0.28	2.0	2.0	328	0.28	131	14	-
																						+	-	-		-		+
_	RURA	L AREAS					 									-					+	-						+
		AREA FOR	INTERS	SECTION	 S		+	4285	4285	43				343	171	1.25	149	0.75	89			+		-				+
_		AREA FOR					1	522	522					42	21	1.25	18	0.75	11			+						+
_		AREA FOR						1908						153	76	1.25	66	0.75	40			 		1908		763	80	1
	EXTRA	AREA FOR	EX. &	PR. MAI	ILBOX A	PPROACH	-L	910	290					23	12	1.25	32	0.75	19			 						+
																						1						+
	URBANIZ	ZED AREA	\S																									T
	EXTRA	AREA FOR	INTERS	SECTION	S			0	0	0				0	0	1.25	0	0.75	0									
	EXTRA	AREA FOR	PAVED	DRIVES				0	0					0	0	1.25	0	0.75	0									
	EXTRA	AREA FOR	R AGGRE	GATE DE	RIVES			36						3	1	1.25	1	0.75	1					36		14	2	
	EXTRA	AREA FOR	REX.&	PR. MA	ILBOX A	PPROACH	HES	30	0					0	0	1.25	1	0.75	1									
																						-						
								IRAL AREAS =	120,306	1,193	40,244		3,349	9,779	4,889		4,265		2,560	10	14.16				14.16	7,407.00	774	18
						TOTAL		ZED AREAS =	2,238	22	821	-	68	182	91		80		49	0	0.28	-			0.28	145.00	16	3
	1	1		1	1	1	GRAND T	OTALS	122,544	1,215	41,066	1	3,417	9,961	4,980		4,345		2,609	10	14.44	1	I	1	14.44	7,552	790	18,

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CONNECTING GUARDRAIL TO EXISTING RAIL

IN LOCATIONS WHERE TYPE 5 GUARDRAIL, TERMINAL ASSEMBLIES, ETC. ARE TO BE CONNECTED TO EXISTING RAIL SOME MODIFICATIONS MAY BE REQUIRED, INCLUDING EXTRA POSTS, DRILLING HOLES AND POSSIBLY PARTIAL SECTIONS
OF ADDITIONAL RAIL ELEMENTS. THE COST OF THIS ADDITIONAL WORK SHALL
BE INCLUDED IN THE UNIT BID PRICE FOR TYPE 5 GUARDRAIL. IF
ADDITIONAL PORTIONS OF RAIL ELEMENT ARE USED THE LINEAL MEASUREMENT OF THIS ADDITIONAL PORTION SHALL BE ADDED FOR PAYMENT.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1.1. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LOCATIONS OF GUARDRAIL

THE GUARDRAIL PROTECTION PROVIDED IN THIS PLAN SHALL BE LOCATED IN THE FIELD TO ASSURE THAT THE INSTALLATION WILL AFFORD THE MAXIMUM PROTECTION FOR TRAFFIC. THIS LOCATION SHALL BE POSITIONED AS FAR AS POSSIBLE FROM THE EDGE OF PAVEMENT WHILE MAINTAINING PROPER GRADE IN FRONT OF GUARDRAIL AS PER STANDARD DRAWINGS AND PLAN DETAILS.

SUGGESTED SEQUENCE OF GUARDRAIL WORK

- I. GUARDRAIL WORK IS TO BEGIN AFTER THE LINEAR GRADING IS COMPLETED AND THE 617 MATERIAL IS PLACED.
- 2. REMOVE THE GUARDRAIL.
- PERFORM THE RESHAPING UNDER GUARDRAIL INCLUDING COMPLETING THE EMBANKMENT, AS PER PLAN.
- 4. REBUILD/CONSTRUCT THE GUARDRAIL RUN.
- 5. INSTALL BARRIER REFLECTORS.

ITEM 203 - EMBANKMENT. AS PER PLAN

AT SPECIFIED LOCATIONS AND LOCATIONS AS DIRECTED BY THE ENGINEER, EMBANKMENT SHALL BE PLACED AS TO PROVIDE A SUITABLE AREA TO CONSTRUCT GUARDRAIL AND TO PROVIDE STRUCTURAL INTEGRITY OF THE ROADWAY SHOUL DER.

EMBANKMENT MATERIAL SHALL BE LIMITED TO CMS ITEM 304 LIMESTONE.

AREAS WHERE EMBANKMENT MATERIAL IS TO BE PLACED SHALL BE SCALPED. THE REQUIREMENTS FOR BENCHING SHALL BE WAIVED. THE DEPTH OF LAYERS IN WHICH THE EMBANKMENT IS PLACED SHALL BE LIMITED TO EIGHT (8) INCHES IN THICKNESS. THE METHOD OF COMPACTION AND EQUIPMENT USED SHALL BE SUFFICIENT TO COMPACT 95% OF STANDARD PROCTOR TO THE SATISFACTION OF THE ENGINEER.

THE METHOD OF MEASUREMENT FOR EMBANKMENT MATERIAL SHALL BE BY THE NUMBER OF CUBIC YARDS CONVERTED BY TICKET WEIGHT IN THE CARRIER AT THE WORK SITE, IN LIEU OF THE REQUIREMENTS OF 203.09. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR ITEM 203 - EMBANKMENT, AS PER PLAN AND SHALL INCLUDE ALL WORK DESCRIBED ABOVE.

ITEM 202 - ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE E

THIS ITEM CONSISTS OF REMOVING AN EXISTING ANCHOR ASSEMBLY. AND SALVAGING FOR REUSE AT A LOCATION SHOWN ON THE PLANS. THE RESULTING HOLES SHALL BE BACKFILLED AND COMPACTED. ELEMENTS THAT ARE NOT SALVAGEABLE SHALL BE DISPOSED OF PER 202.02.

ITEM 202 - ANCHOR ASSEMBLY REMOVED. TYPE A

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING TYPE A. ANCHOR ASSEMBLY INCLUDING ALL POSTS, HARDWARE, RAIL ELEMENTS, AND CONCRETE ANCHORS. ALL ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALLBE PROPERLY DISPOSED OF

THE EXISTING CONCRETE ANCHOR AND CONCRETE AT POSTS SHALL BE REMOVED ENTIRELY. ALL HOLES REMAINING AFTER REMOVAL SHALL BE FILLED WITH GRANULAR MATERIAL OR EXCESS MATERIAL RESULTING FROM GUARDRAIL CONSTRUCTION. ALL FILL MATERIAL SHALL BE THOROUGHLY COMPACTED AND LEVELED, AS DIRECTED BY THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 202, ANCHOR ASSEMBLY REMOVED. TYPE A.

ITEM 209 - RESHAPING UNDER GUARDRAIL. AS PER PLAN

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

THIS WORK SHALL BE COMPLETED AT LOCATIONS SPECIFIED FOR WORK AS WELL AS PER CMS 209.05 AND AS DESCRIBED HEREIN, AND SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER.

THE AREA IN FRONT OF, UNDER, AND BEHIND THE GUARDRAIL SHALL BE GRADED AND RESHAPED TO PROVIDE AN AREA THAT HAS A SLOPE OF 10:1 MAXIMUM (SEE DETAIL BELOW AS WELL AS THE GUARDRAIL DETAIL SHEETS FOR FURTHER DETAILS AND INFORMATION OF THE LIMITS OF THIS WORK).

EXCESS MATERIAL RESULTING SHALL BE USED ELSEWHERE FOR THIS ITEM IF SO DIRECTED OR DISPOSED OF PROPERLY. IF EXTRA MATERIAL IS REQUIRED IT SHALL BE PAID FOR WITH ITEM 203 - EMBANKMENT, AS PER PLAN. THIS WORK SHALL NOT BE STARTED UNTIL AFTER THE RESURFACING AND BERM WORK HAS BEEN COMPLETED.

THE ABOVE WORK SHALL BE PAID FOR PER STATION WITH ITEM 209, RESHAPING UNDER GUARDRAIL, AS PER PLAN WITH THE EXCEPTION OF ANY EXTRA MATERIAL REQUIRED TO MEET THE SLOPE REQUIREMENTS WHICH SHALL BE PAID BY ITEM 203 - EMBANKMENT, AS PER PLAN.

ITEM 606 - GUARDRAIL REBUILT, TYPE 5

THIS ITEM SHALL BE USED WHEN GUARDRAIL REQUIRES REPAIRS IN WHICH THE RAIL ELEMENT IS REUSABLE. ALSO, THIS ITEM WILL BE USED TO RE-ALIGN GUARDRAIL RUNS, AS DIRECTED BY THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT, AS DESCRIBED IN 606.05 AND TO INCLUDE REMOVAL AND REPLACEMENT OF ANY AND ALL DAMAGED MATERIAL, (REUSING THE RAIL ELEMENT), INCLUDING REPLACEMENT OF ANY MATERIALS DAMAGED DURING DISMANTLING OR ANY MATERIALS WHICH MAY HAVE DETERIORATED TO THE POINT THEY CANNOT BE

ITEM 606 - RAISING TYPE 5 GUARDRAIL

WHERE DESIGNATED ON THE PLAN, THE EXISTING TYPE 5 GUARDRAIL SHALL BE RAISED ON THE EXISTING WOOD POSTS AS PER STANDARD DRAWING GR-2.1 SO AS TO OBTAIN THE STANDARD 27.75 IN. HEIGHT. THE RAIL SHALL BE RE-ATTACHED TO THE POSTS USING NEW POST BOLTS.

THE RAIL SHALL BE DISMANTLED ONLY TO THE EXTENT NECESSARY TO FIELD BORE NEW BOLT HOLES IN THE WOOD POSTS, AND TO RECONNECT THE RAIL AND BLOCK TO THE EXISTING POSTS.

THE EXISTING TYPE "A" ANCHOR ASSEMBLIES THAT ARE TO REMAIN SHALL NOT BE ADJUSTED. THE LAST RAIL ELEMENT SHALL BE TRANSITIONED TO MEET

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT OF ITEM 606 - RAISING TYPE 5 GUARDRAIL, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

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<u> ITEM 606 - ANCHOR ASSEMBLY, TYPE B</u>

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS.

1) THE SRT-350. GUARDRAIL END TERMINAL AS MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE:

THE LENGTH OF THE SRT-350 SYSTEM IS CONSIDERED TO BE 37'-6" (11.43 m), INCLUSIVE OF THREE 12'-6" (3.81 m) LONG RAIL ELEMENTS.
INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS444 SS444M	SLOTTED RAIL TERMINAL POST LAYOUT AND ERECTION DETAILS SRT-350 (12.5, 8 POST)	7/12/99 Rev. 1 7/12/99	08/27/99
SS425M	SLOTTED RAIL TERMINAL SRT-350 POST LAYOUT AND ERECTION DETAILS (12.5, 9 POST)	6/21/97 Rev. 1	03/6/98

2) THE FLEAT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224 (TELEPHONE: 330.346.0721).

THE LENGTH OF THE FLEAT-350 IS CONSIDERED TO BE 37'-6" (11.43 m), INCLUSIVE OF THREE 12'-6" (3.81 m) LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
FLT-M	FLARED ENERGY ABSORBING TERMINAL (FLEAT-350) ASSEMBLY	04/16/98	07/31/98
FLT HINGED CRT	FLARED ENERGY ABSORBING TERMINAL (POSTS 1 AND 2 ARE STEEL HINGED)	5/4/06	05/23/06
FLT-SP	FLARED ENERGY ABSORBING TERMINAL (A SEVEN POST OPTION USING STANDARD STEEL POSTS)	03/30/09	03/4/09

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES (100mm) ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27¾ INCHES (706mm) FROM THE EDGE OF THE

ON SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES NOT PROJECT MORE THAN 4 INCHES (100mm) ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19: APPROXIMATELY 36 IN. WIDE \times 12 IN. HIGH (915 mm W \times 305 mm H) FOR THE SRT-350 AND 14 IN. WIDE \times 20 IN. HIGH (350 mm W x 500 mm H) FOR THE FLEAT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY REBUILT. TYPE E

THIS ITEM SHALL CONSIST OF REUSING SALVAGED ELEMENTS FROM AN EXISTING ANCHOR ASSEMBLY, AND CONSTRUCTING A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY AT A LOCATION SHOWN IN THE PLANS.

THE ANCHOR ASSEMBLY SHALL BE RECONSTRUCTED AS PER THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS.

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE ST., GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50 FEET (15.24 m), INCLUSIVE OF TWO 25 FOOT (7.62 m) LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS142	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4	4/12/00	7/31/00
SS141	ET-2000 PLUS PLAN, ELEVATION & SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SS158	ET-2000 PLUS 50'-0" WITH 12'-6" PANELS & HBA POSTS 1-4 PLAN, ELEVATION & SECTION	5/22/00	7/31/00
SS330	ET-2000 PLUS 50'-0" WITH FOUR FOUNDATION TUBES AND FOUR CRT POSTS	3/28/06	3/29/06
SS373	ET-2000 PLUS 50'-0" WITH 7 SYT POSTS AND ONE HBA POST	6/20/09	1/20/09

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO 44224 (TELEPHONE: 330-346-0721)

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0" (15.24 m), INCLUSIVE OF FOUR 12'-6" (3.81m) LONG RAIL ELEMENTS.
INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SKT-4M	SEOUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98
SKT HINGED CRT	SEOUENTIAL KINKING TERMINAL (SKT-350) FOUR POSTS ARE STEEL HINGED AND FIVE POSTS ARE CRT	4/30/06	5/23/06
SKT-SP	SEOUENTIAL KINKING TERMINAL (SKT-350) A SEVEN POST OPTION USING STANDARD STEEL POST	3/30/09	3/4/09

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18", OR 12" X 18" IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER

THE CONTRACTOR MAY USE A SALVAGED EXTRUDER WHEN ASSEMBLING THE ITEM 606 ANCHOR ASSEMBLY, TYPE E. ALL WELDS ON THE EXTERIOR OF THE SALVAGED EXTRUDER SHALL NOT BE DAMAGED AND THE FEEDER SHUTE SHALL

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE MANUFACTION THE FOUNDATION TUBES AND GROUND STRUT.
THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES (100mm)
ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN
APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE
FINISHED GUARDRAIL HEIGHT OF 27% INCHES (706mm) FROM THE EDGE OF THE

ON SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES NOT PROJECT MORE THAN 4 INCHES (100mm) ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY REBUILT, TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO RECONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

<u>ITEM 606 - ANCHOR ASSEMBLY, TYPE E</u>

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS.

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE ST., GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50 FEET (15.24 m), INCLUSIVE OF TWO 25 FOOT (7.62 m) LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS142	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4	4/12/00	7/31/00
SS141	ET-2000 PLUS PLAN, ELEVATION & SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SS158	ET-2000 PLUS 50'-0" WITH 12'-6" PANELS & HBA POSTS 1-4 PLAN, ELEVATION & SECTION	5/22/00	7/31/00
SS330	ET-2000 PLUS 50'-0" WITH FOUR FOUNDATION TUBES AND FOUR CRT POSTS	3/28/06	3/29/06
SS373	ET-2000 PLUS 50'-0" WITH 7 SYT POSTS AND ONE HBA POST	6/20/09	1/20/09

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO 44224 (TELEPHONE: 330-346-0721)

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0" (15.24 m), INCLUSIVE OF FOUR 12'-6" (3.81m) LONG RAIL ELEMENTS.
INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98
SKT HINGED CRT	SEOUENTIAL KINKING TERMINAL (SKT-350) FOUR POSTS ARE STEEL HINGED AND FIVE POSTS ARE CRT	4/30/06	5/23/06
SKT-SP	SEOUENTIAL KINKING TERMINAL (SKT-350) A SEVEN POST OPTION USING STANDARD STEEL POST	3/30/09	3/4/09

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" x 18", OR 12" x 18" IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER

THE CONTRACTOR MAY USE A SALVAGED EXTRUDER WHEN ASSEMBLING THE ITEM 606 ANCHOR ASSEMBLY, TYPE E. ALL WELDS ON THE EXTERIOR OF THE SALVAGED EXTRUDER SHALL NOT BE DAMAGED AND THE FEEDER SHUTE SHALL NOT BE BENT.

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES (100mm. ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27% INCHES (706mm) FROM THE EDGE OF THE

ON SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES NOT PROJECT MORE THAN 4 INCHES (100mm) ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY

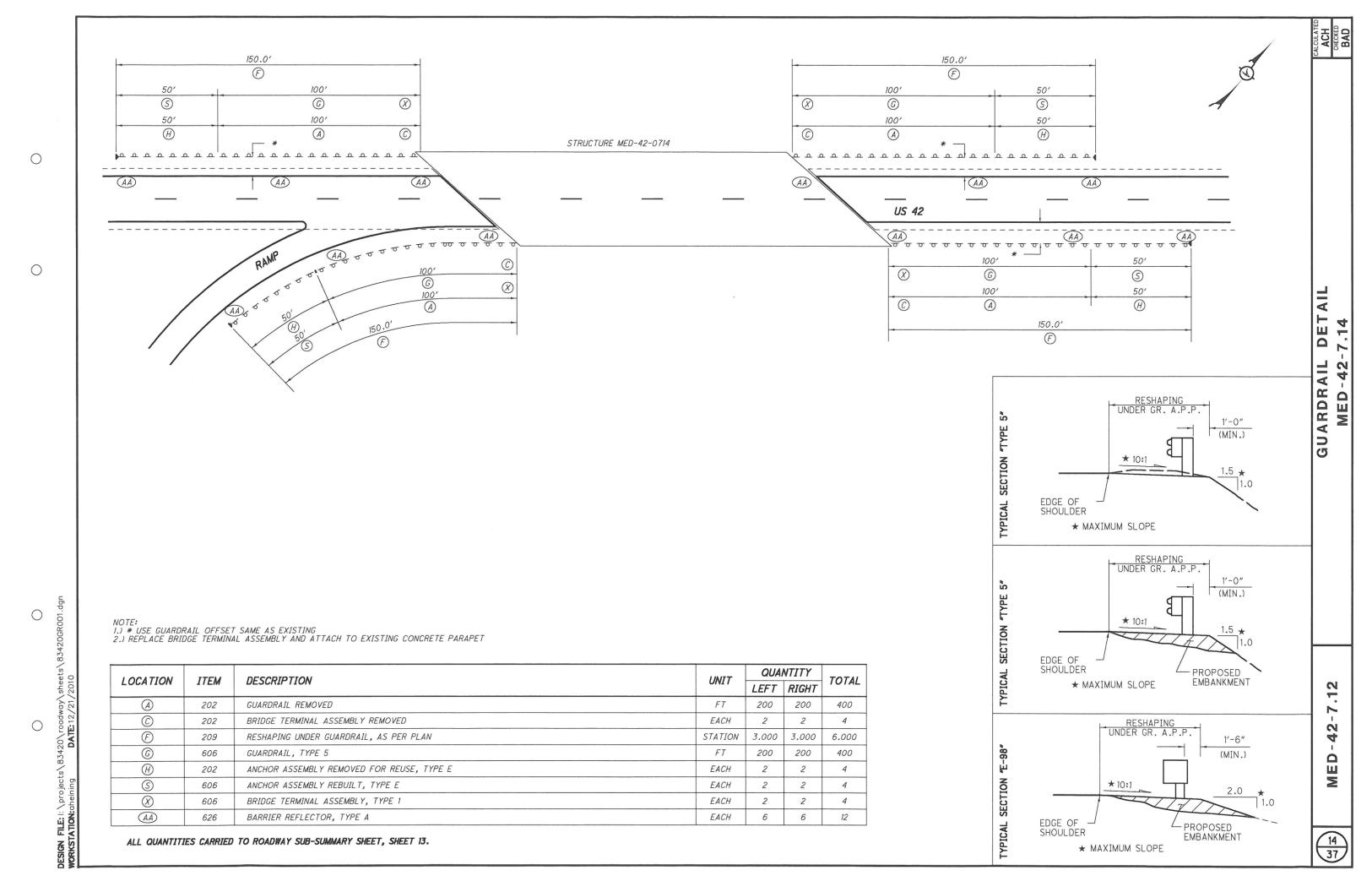


202 202 202 202 202 202 203 209 606 606 606 606 606 606 606 606 606 606 로 ANCHOR ASSEMBLY REMOVED 오 FOR REUSE, TYPE E RAISING TYPE 5 GUARDRAIL RESHAPING UNDER GUARDRAIL, AS PER PLAN BARRIER REFLECTOR SHEET LOCATION FT FT EACH EACH EACH CU YD STATION FT FT FT FT EACH EACH EACH EACH EACH EACH EACH MED-42-7.12 400 14 4 400 6.00 12 15 MED-42-7.34 237.5 34 2.375 237.5 MED-42-9.45 137.5 250 16 4 4.625 250 50 3 11 MED-42-10.90 17 50 3 34 425 6 -SUMMARY 18 MED-42-12.29 58 500 10 MED-42-12.64 25 19 51 137.5 2 20 MED-42-12.90 37.5 140.63 4 2 2.031 162.5 140.63 2 2 10 MED-42-13.25 21 25 17 250 SUB 22 MED-42-13.45 50 3 540.63 17 3 9 MED-42-13.70 23 437.5 4 6.375 437.5 4 4 10 \succ ROADW -7.12 -42 MED 13 TOTALS CARRIED TO GENERAL SUMMARY 725 1065.63 16 12 20 4 211 21.406 2015.63 400 1065.63 50 3 12 16

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NOTE: 1.) * USE GUARDRAIL OFFSET MATCH EXISTING

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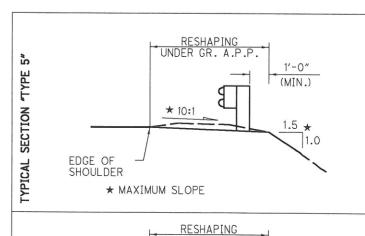
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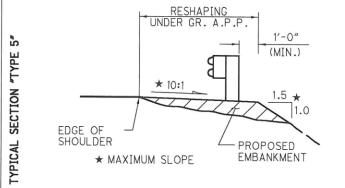
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LOCATION	ITEM	DESCRIPTION	UNIT	QUAI	NTITY	TOTAL
LOCATION	112141	BESONI TION	UNIT	LEFT	RIGHT	TOTAL
B	202	GUARDRAIL REMOVED FOR REUSE	FT	237.5		237.5
0	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	2		2
Ē	209	RESHAPING UNDER GUARDRAIL, AS PER PLAN	STATION	2.375		2.375
(L)	606	GUARDRAIL REBUILT, TYPE 5	FT	237.5		237.5
0	606	ANCHOR ASSEMBLY, TYPE E	EACH	2		2
(AA)	626	BARRIER REFLECTOR, TYPE A	EACH	4		4
	203	EMBANKMENT, AS PER PLAN	CY	34		34

ALL QUANTITIES CARRIED TO ROADWAY SUB-SUMMARY SHEET, SHEET 13.





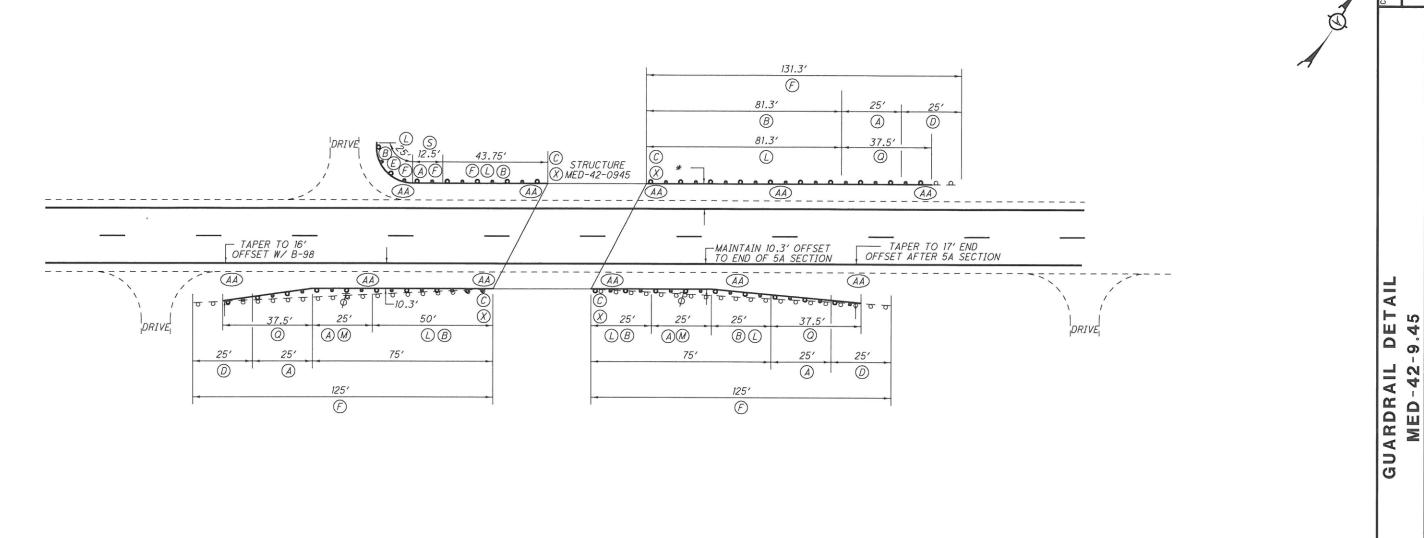
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-42

L DETAIL 2-7.34

GUARDRAIL

MED-42

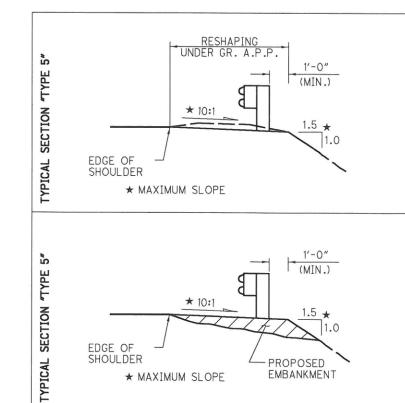


ITEM 202 - ANCHOR ASSEMBLY REMOVED, TYPE T, AS PER PLAN: REMOVE TYPE T ANCHOR, REMOVE AND REUSE THE ASSOCIATED RADIUSED GUARDRAIL PANEL AT THE SAME LOCATION WITH NEW POSTS.

NOTE: 1.) * GUARDRAIL OFFSET SAME AS EXISTING

LOCATION	ITEM	DESCRIPTION	UNIT	QUA	NTITY	TOTAL
LOCATION	11 LIVI	DESCRIP (10)4	UNIT	LEFT	RIGHT	TOTAL
A	202	GUARDRAIL REMOVED	FT	37.5	100	137.5
B	202	GUARDRAIL REMOVED FOR REUSE	FT	150	100	250
©	202	BRIDGE TERMINAL ASSEMBLY REMOVED	EACH	2	2	4
Ø	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	1	2	3
E	202	ANCHOR ASSEMBLY REMOVED, TYPE T, AS PER PLAN	EACH	1		1
Ē	209	RESHAPING UNDER GUARDRAIL, AS PER PLAN	STATION	2.125	2.500	4.625
	606	GUARDRAIL REBUILT, TYPE 5	FT	150	100	250
M	606	GUARDRAIL, TYPE 5A	FT		50	50
0	606	ANCHOR ASSEMBLY, TYPE B	EACH	1	2	3
(\$)	606	ANCHOR ASSEMBLY, TYPE T	EACH	1		1
(X)	606	BRIDGE TERMINAL ASSEMBLY, TYPE 4	EACH	2	2	4
AA	626	BARRIER REFLECTOR, TYPE A	EACH	6	6	11

ALL QUANTITIES CARRIED TO ROADWAY SUB-SUMMARY SHEET, SHEET 13.



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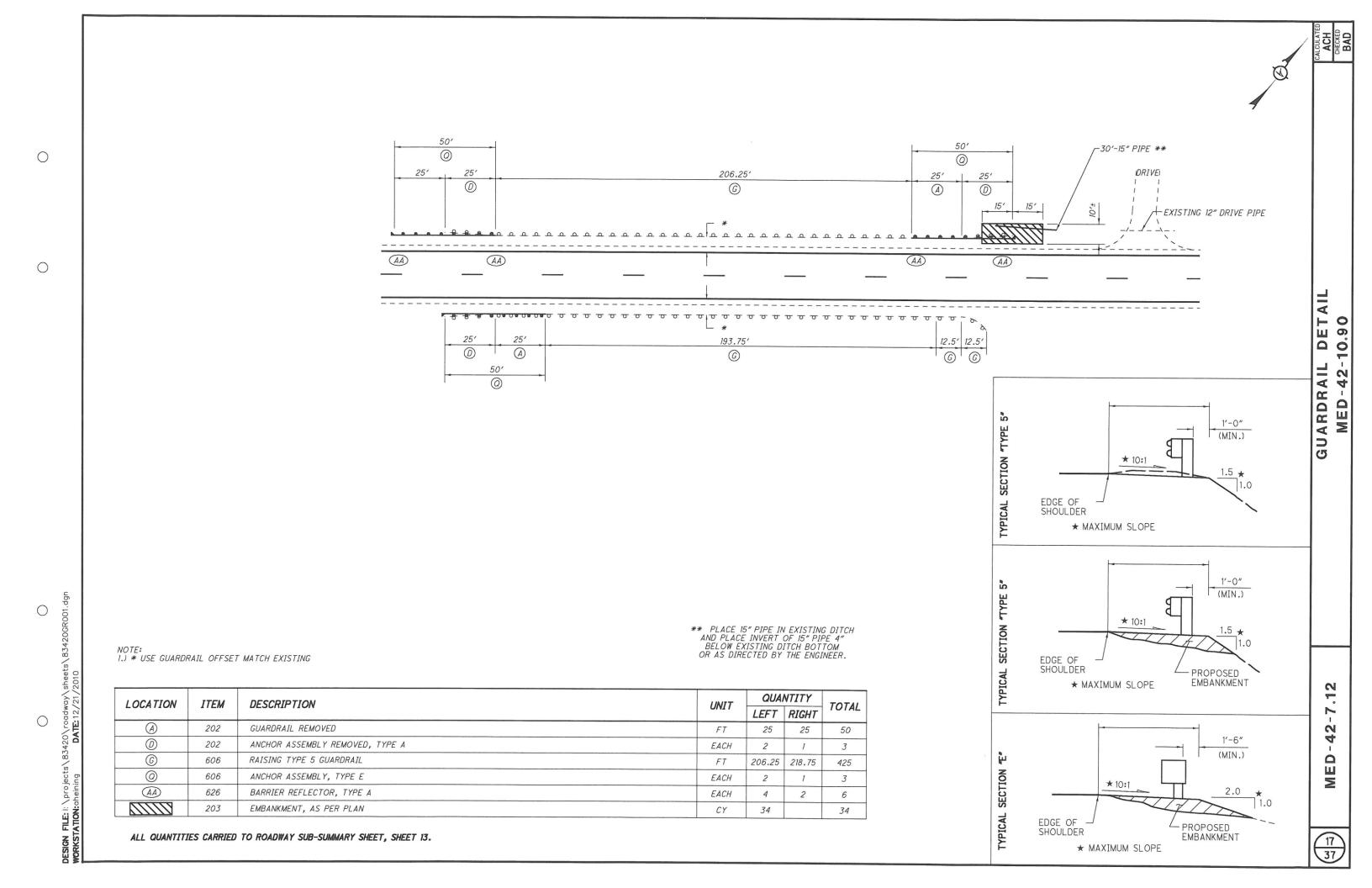
EMBANKMENT

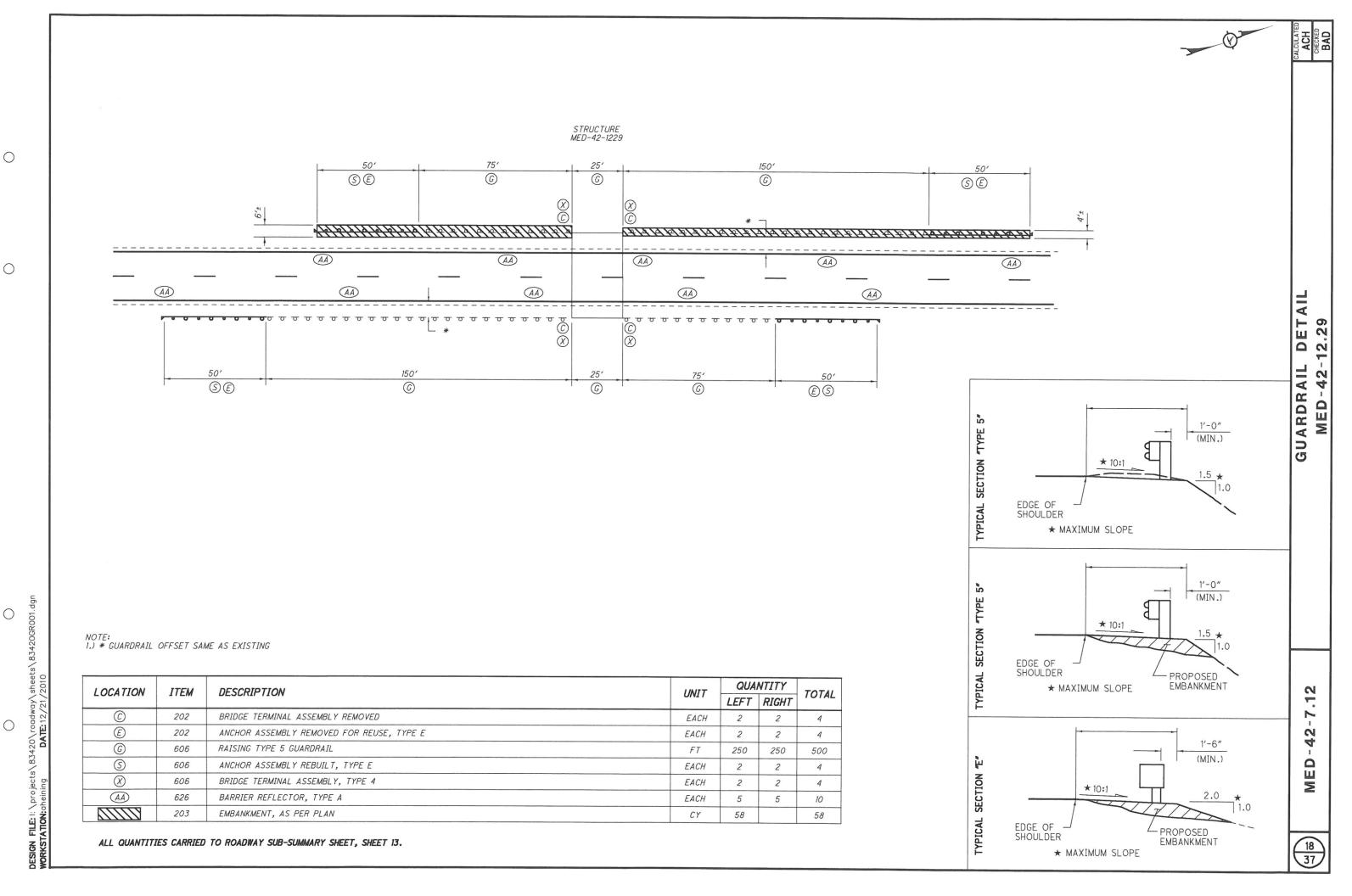
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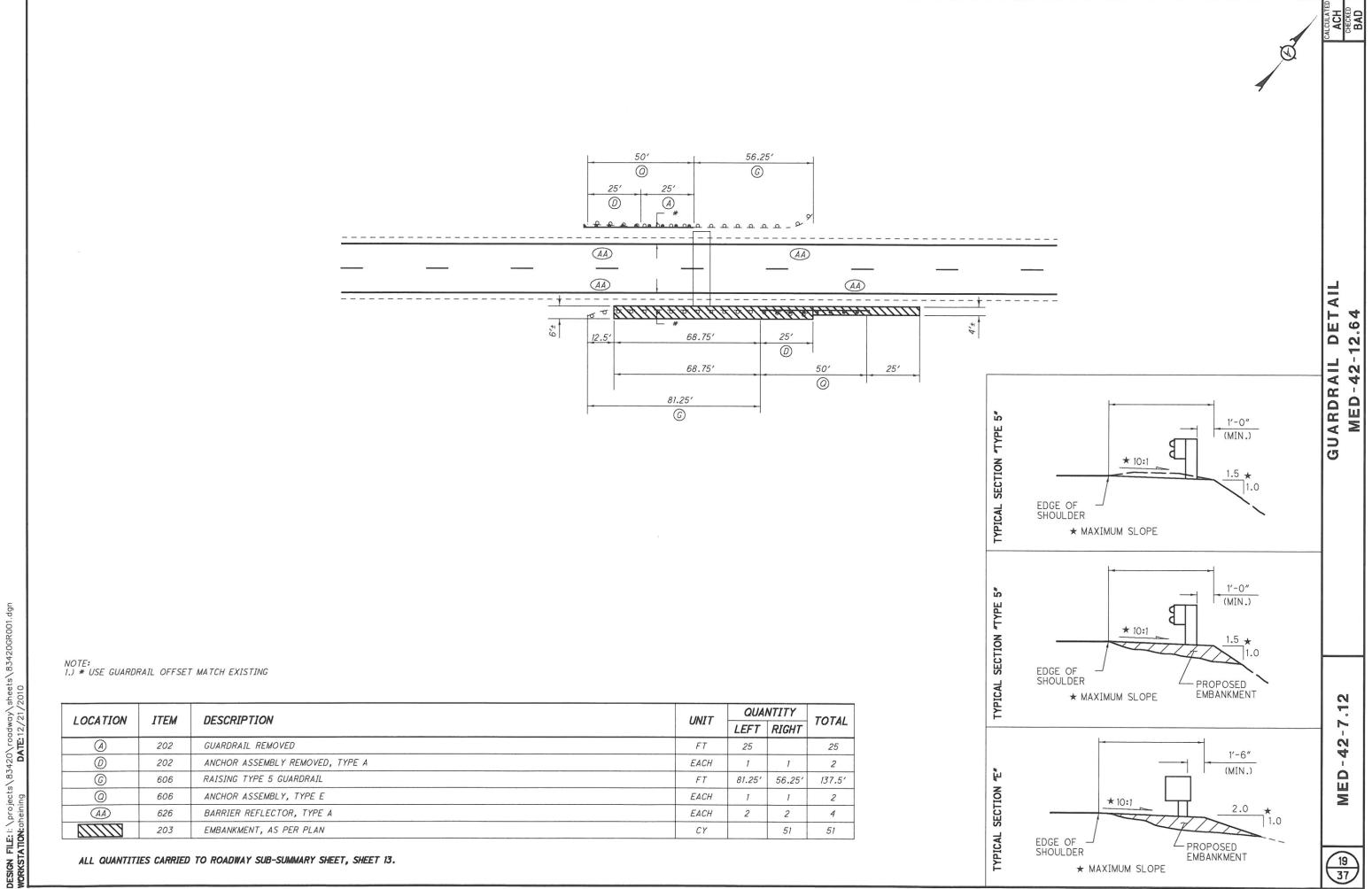
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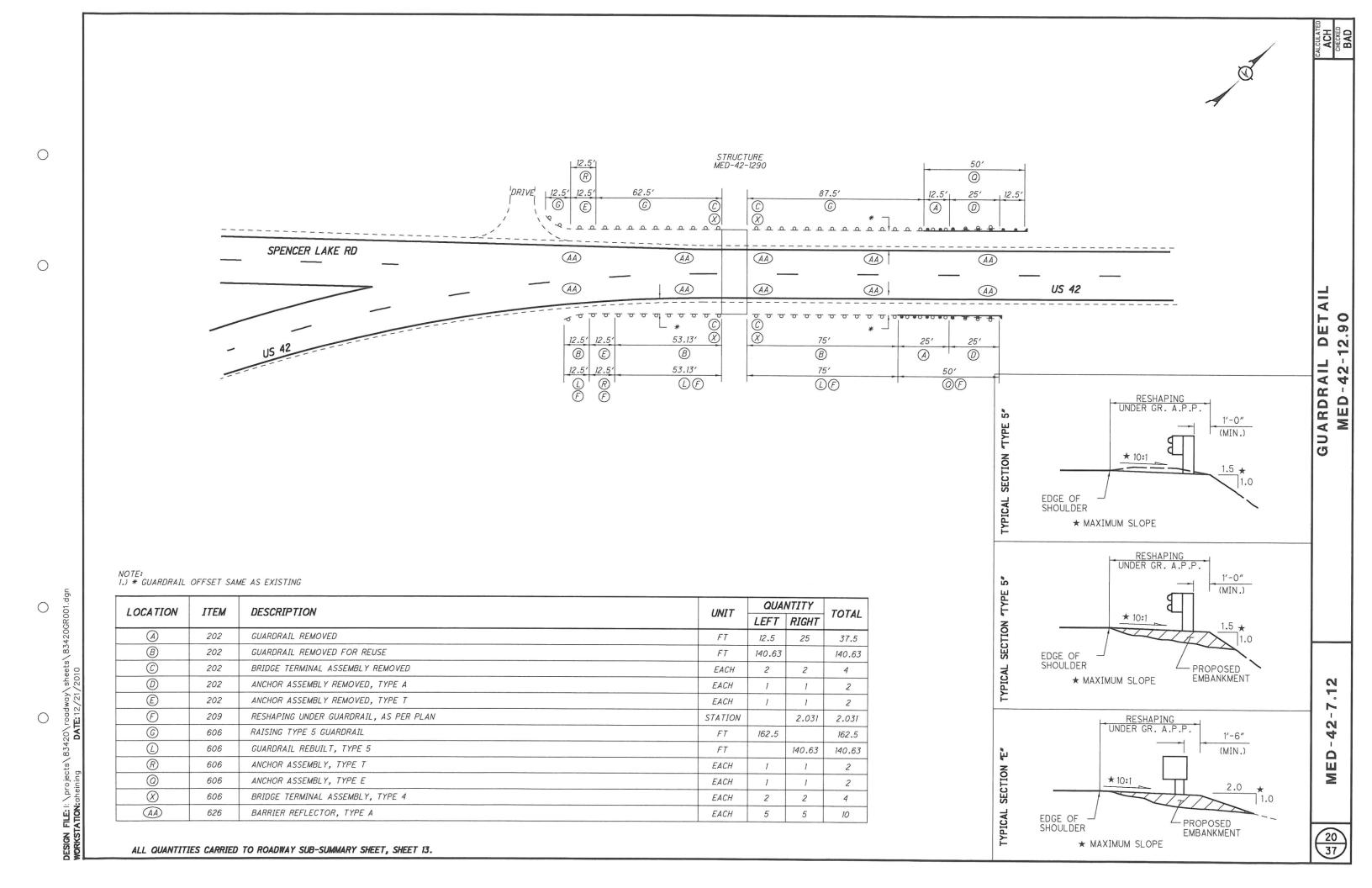


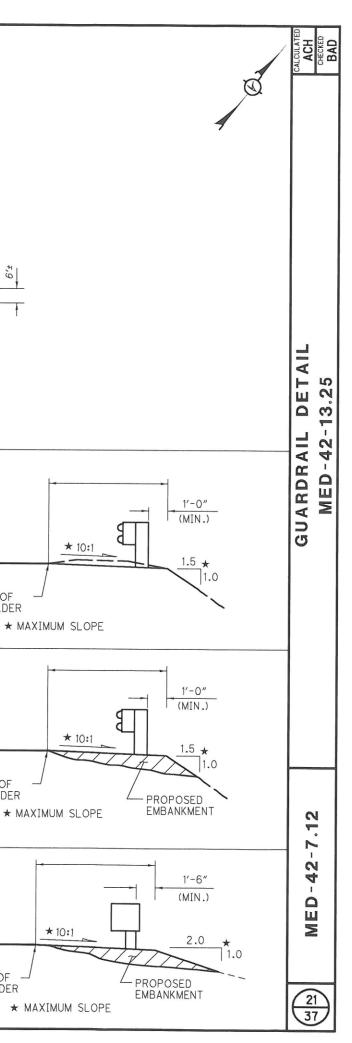




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TYPICAL SECTION

TYPICAL SECTION "TYPE 5"

TYPICAL SECTION

EDGE OF SHOULDER

EDGE OF SHOULDER

EDGE OF -SHOULDER

***** 10:1

(AA) (AA) (AA) (AA) 200' 50' 6 (A) 0 50' EXISTING ANCHOR ASSEMBLY, TYPE E 0

NOTE: 1.) * USE GUARDRAIL OFFSET MATCH EXISTING

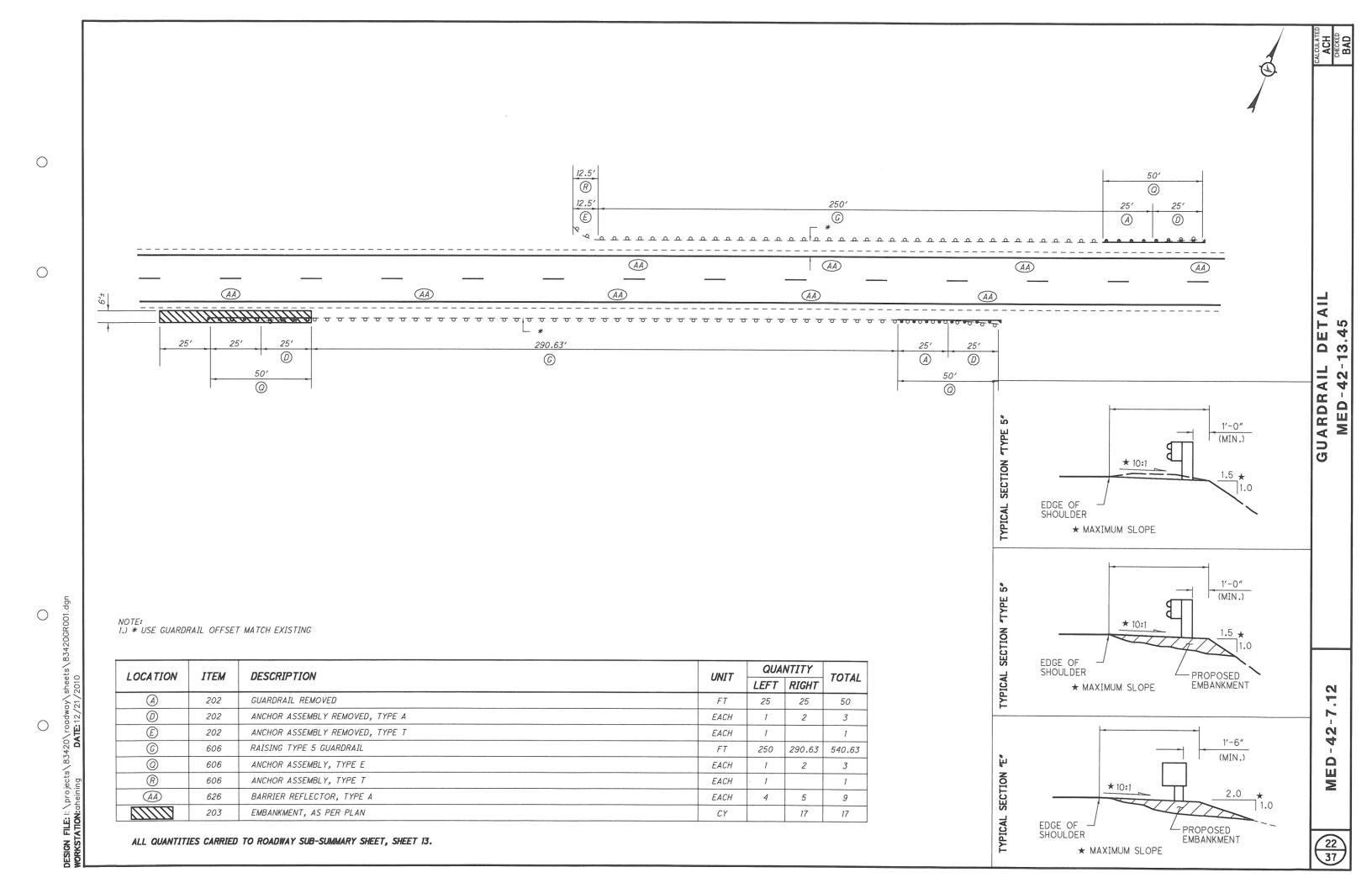
LOCATION	ITEM	DESCRIPTION	UNIT	QUA	NTITY	TOTAL
LOGATION	112111	BESONII TION	UNIT	LEFT	RIGHT	TOTAL
A	202	GUARDRAIL REMOVED	FT		25	25
(202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH		1	1
6	606	RAISING TYPE 5 GUARDRAIL	FT		250	250
0	606	ANCHOR ASSEMBLY, TYPE E	EACH		1	1
(AA)	626	BARRIER REFLECTOR, TYPE A	EACH		4	4
	203	EMBANKMENT, AS PER PLAN	CY		17	17

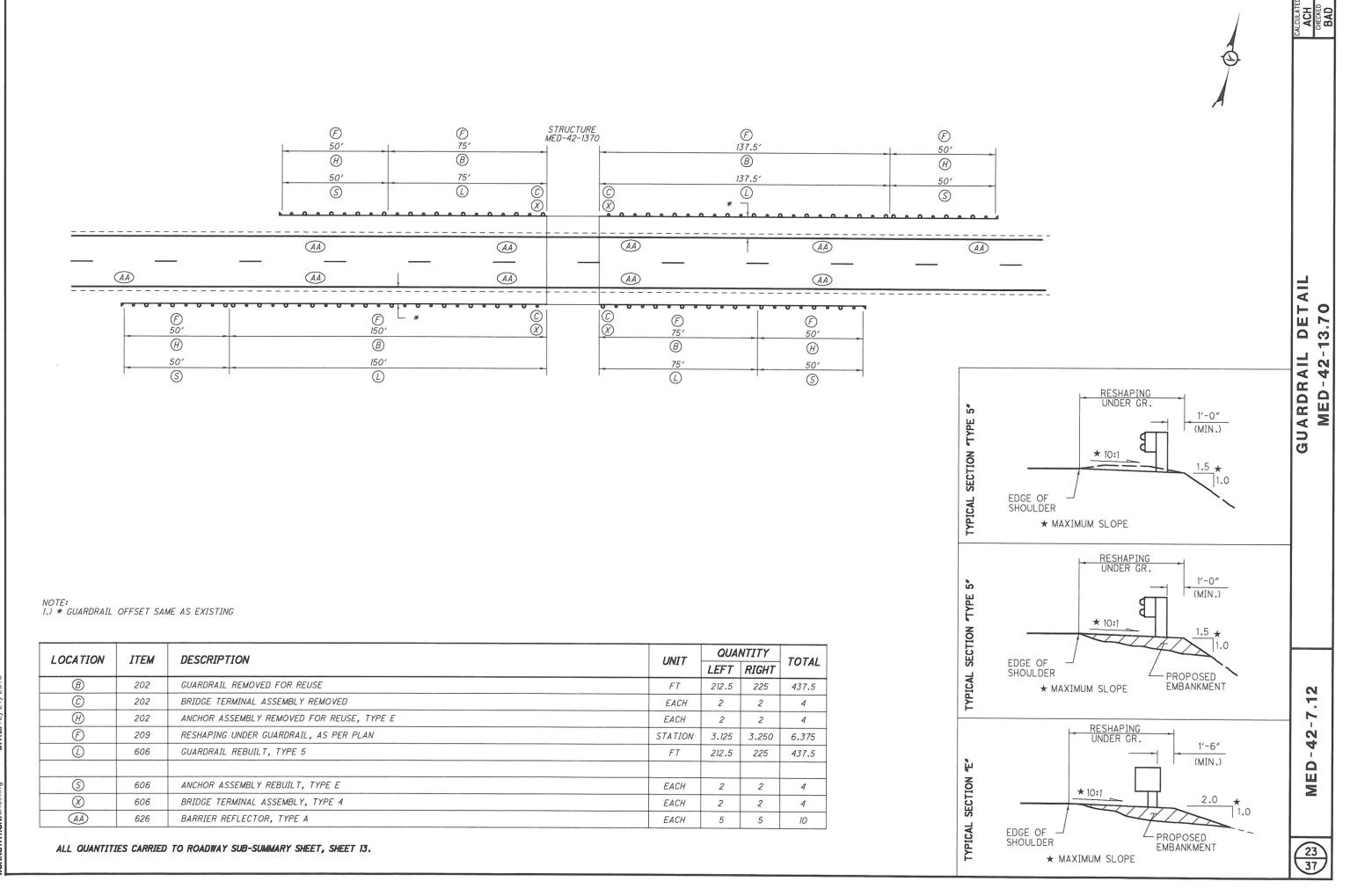
ALL QUANTITIES CARRIED TO ROADWAY SUB-SUMMARY SHEET, SHEET 13.

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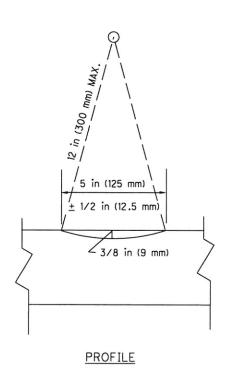
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						T	614		FDGE	LINE	642, TYI		ER LINE	-					A 1	IVII IADV	644	740.04								SPECIAL	
ROUTE	COUNTY		STATION / SLM	HIGHWAY MILES	WORK ZONE LANE LINE, CLASS I, 642 PAINT	WORK ZONE CENTER LINE, CLASS II, 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	TOTAL (PAY QUANTITY)	TOTAL (PAY QUANTITY)	LANE LINE	SOLID LINE EQUIVALENT	TOTAL (PAY QUANTITY)	CHANNELIZING LINE	STOP LINE	CROSSWALK LINE	TRANSVERSE/ DIAGONAL LINE (WHITE)	TRANSVERSE/ DIAGONAL LINE (YELLOW)	ISLAND MARKING	RAILROAD SYMBOL TITEM MARKING	SCHOOL SCHOOL SYMBOL MARKING	RKING LOT STALL	_EFT	RIGHT SAVE THROUGH	ION	NOW AVE NO.	MENT	DOTTED LINE, 4"	HANDICAP SYMBOL MARKING	AIR SPEED ZONE MARKING	MJS
		FROM	ТО	MILE	MILE	MILE	FT	FT	MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	SQ FT	EACH	EACH	FT		EACH		EA	СН		EACH	EACH	<u>R</u>
US 42	MEDINA	7.12	14.26	7.14		21.42	1260		14.28	0.01		10.141	7.14	420			157		9	2			-		-						MA
US 42 *	MEDINA	14.26	14.40	0.14		0.42			0.28			0.175	0.14																		SUMMARY
				0.11		0.42			0.20			0.173	0.14												+						1 1
SIDE ROADS	MEDINA	VAR	IOUS		-							0.300	0.15		344																SUB
RAMPS		7.12	7.38					258							86																
SR 162 INST.		12.05	12.52					150							50																RPM
			TOTAL	7.28	0.00	21.84	1,260	408	14.56	0.01	0.00	10.616	7.43	420	480	0	157	0	9	2	0 0			0 0			_		2		~
* URBANIZE	ED AREA		TOTAL	1,20	0.00	21.01	1,200	1 400	14,50	0.01	0.00	10.010	11.43	1 420	1 400		131		9	2	0 0	0	0	0 0	0	0	0	0	0	0	-
											RA	ISED	PAVE	MEN	Г МА	RKEI	RS														5
					621	621	PRISMATI	C RETRO	-REFLEC TWO		ES				***************************************								DET	AIL DES			IDED TY				
ROUTE	COUNTY		STATION/SLM	DETAIL	RAISED PAVEMENT PARKER REMOVED	₩ EACH	ZIIHM EACH	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	BLUE / BLUE						REMAR	KS					2 3 4 5 6 7 8	B DEC PAR MUL S STC 2 L	CELERA RALLEL TILANE DP APP ANE AP	ROACH PPR.WI APPROA	ANE LANE ED/EXPF	LANE			VEMENT MARKING
US 42	MEDINA	7.12	11.56	GAP	302	302		290	12			WHITE/R	ED AT GO	RE AREAS	AT INTE	RCHANG	E; MED-42	2-0714 BR	DGE SUB	TRACTED			10	3 L	ANE DI	VIDED .	TO 2 LA	NE TRA	NSITIO		PA
US 42	MEDINA	11.56	11.69	15	18	18		18												-			11				D TO 2 W BRIDG		RANSIT	ION	_
US 42	MEDINA	11.69	12.80	GAP	77	77	2	75				ONF-WA	Y WHITE A	AT SR 162	WFST/II	S 42 IN	TERSECTIO	N					13	3 TWC	YAW		JRN LAN				1
												ONE WA		11 311 102	1123170	J 72 11V	TENSECTIO	11					14	HOR	RIZONT	AL CUR	VE				1
US 42	MEDINA	12.80	12.99	15	25	25		25															16			AL CUR' ROACH	VE ALT.				-
US 42	MEDINA	12.99	14.26	GAP	84	84		84															18	FIRE	E HYDR	ANT					
US 42 *	MEDINA	14.26	14.40	GAP	10	10		10				* URBAN	IZED AREA	4									GA	P CEN	ILEK LI	NE AT	80 FT.	TYP.			-
																								NOT		אורכ כו	ALL DE	CTDIDE	-D AT 4	44 WIDTHS	
																									HRU LA	AINES SE	ALL DE	SIRIFE	LUAII	1' WIDTHS.	2
																								2) F	OR ALI	L WORK D SHAL	ZONE N L BE TY	MARKINO PE 1.	GS, THE	642	42-7.1
																									TALLED	AT TH	OP LINE E FOLLO	OWING L		ONS:	MED-4
																									SR 16	2 WEST	APPRO	ACH	OF THE	PROJECT	
			TOTAL		516	516																		4) G	ORE M	ARKING	S SHALL	BE TH	IE CHEV	'RON TYPE	24

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SHOULDER WIDTH

2-5 ft

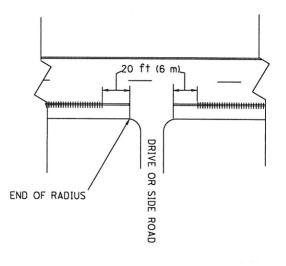
(0.6-1.5 m)

5 ft-1 in - 8 ft

(1.5 m-25mm - 2.4 m)

≥8 ft-1 in

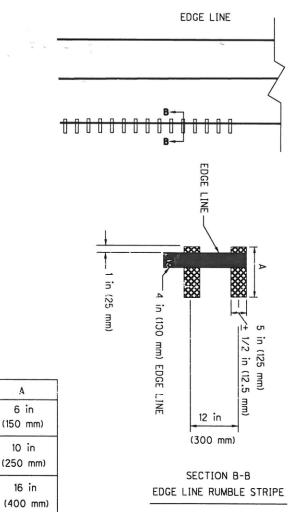
(≥ 2.4 m-25mm

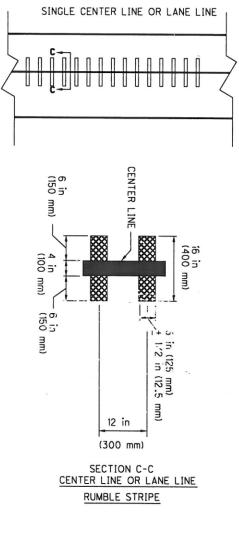


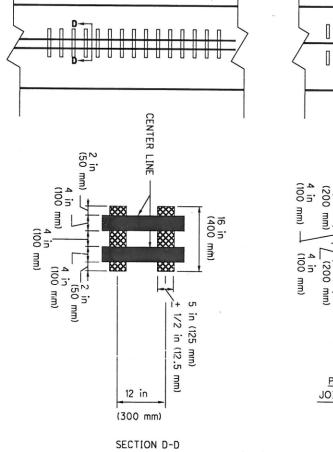
SIDE ROAD AND DRIVE RUMBLE STRIPE INSTALLATION DETAILS

NOTES

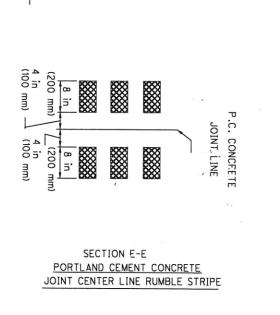
- 1. Rumble stripes shall be interrupted for driveways and intersections.
- 2. Rumble stripes shall be paid for in accordance with Item 618.
- Rumble stripes shall be installed on a 62 foot (18.6 meter) cycle, i.e. 50 feet (15 meters) of rumble stripes followed by a 12 foot (3.6 meter) gap.



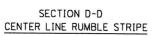




DOUBLE CENTER LINE



CONCRETE JOINT LINE



-42-7.12

MED

OFFICE OF TRAFFIC ENGINEERING

4/16/10
4/16/10
CHECKED
DJV

206410

STRIPE

RUMBLE

24A 37

ITEM	EXTENSION	OUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	7	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	26
511	34450	5	CU YD	CLASS S CONCRETE, MISC: APPROACH SLAB REPAIR	26
511	45701	3	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	26
SPECIAL	511E60000	1275	SQ YD	BRIDGE DECK GROOVING	26
512	10100	728	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	31000	102	FT	JOINT SEALER	
848	10201	1275	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (21/2" THICK)	26
848	20000	1275	SQ YD	SURFACE PREPARATION USING HYDRO DEMOLITION	
848	30201	4	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	26
848	50000	10	SQ YD	HAND CHIPPING	
848	50100	LUMP		TEST SLAB	
848	50320	1275	SQ YD	EXISTING CONCRETE OVERLAY REMOVED (2" NOMINAL THICKNESS)	
848	50340	10	SQ YD	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

MED-42-0945 SFN 5201454

ITEM	EXTENSION	OUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	98200	103.33	FT	REMOVAL MISC.: STEEL DRIP STRIP	26
512	33010	225	SQ YD	TYPE 3 WATERPROOFING	
SPECIAL	518E22300	103.33	FT	STEEL DRIP STRIP	26
SPECIAL	530E01300	412	FT	STRUCTURE, MISC.: SHEAR KEY REPAIR	26

MED-42-1179 SFN 5201462

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
512	10100	58	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	

MED-42-1229 SFN 5201497

ITEM	EXTENSION	OUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
512	10100	68	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	

MED-42-1370 SFN 5201586

ITEM	EXTENSION	OUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
512	10100	88	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	

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MED-42-7.12

ODOT DISTRICT THREE OFFICE OF PRODUCTION

SUMMARY

STRUCTURE

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 AND 513.04.

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.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING:

DS-1-92 DATED 7-18-03 PSBD-1-93 DATED 4/20/07

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION: 848 DATED 4/16/10

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.

DESIGN DATA

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

DECK PROTECTION METHOD

SUPERPLASTICIZED DENSE OVERLAY WATERPROOF AND ASPHALT OVERLAY

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 1 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 SPECIAL - STRUCTURE, MISC.: SHEAR KEY REPAIR

THE MORTAR IN THE EXISTING PRESTRESSED CONCRETE BEAM SHEAR KEY AT THE LOCATION INDICATED IN THE PLAN ON STRUCTURE MED-42-0945 SHALL BE REMOVED AND REPLACED AS PER DETAILS IN THE PLAN. ALL LOOSE AND DETERIORATED SHEAR KEY MORTAR SHALL BE REMOVED, AS MUCH AS IS PRACTICAL, WITH HAND TOOLS AND AN AIR BLAST.

WITHIN TWENTY-FOUR (24) HOURS BEFORE PLACING THE MORTAR, THE EXISTING SHEAR KEY SURFACES AGAINST WHICH THE MORTAR SHALL BE PLACED, SHALL BE GIVEN A MEDIUM SANDBLAST FOLLOWED BY AN AIR BLAST. A NONSHRINK, NONMETALLIC GROUT PER STANDARD PSBD-1-93 SHALL BE USED.

THE MORTAR SHALL BE STORED, APPLIED AND CURED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. NO VEHICLE SHALL BE PERMITTED ON THE BEAMS ADJACENT TO THE NEW SHEAR KEY UNTIL THE MORTAR HAS REACHED ITS FINAL CURE TIME.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM SPECIAL, STRUCTURE, MISC .: SHEAR KEY REPAIR IRRESPECTIVE OF DEPTH OR THICKNESS, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTIALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 511. CLASS S CONCRETE. MISC.: APPROACH SLAB REPAIR

ITEM 511. CLASS C CONCRETE. ABUTMENT. AS PER PLAN (REPAIR)

ITEM 848. SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION. AS PER PLAN

ITEM 848. SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS). MATERIAL ONLY. AS PER PLAN

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

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF 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.

ITEM SPECIAL - STEEL DRIP STRIPS

SEE STANDARD DRAWING DS-1-92 FOR DETAILS AND NOTES.

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

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES:

SPECIAL CARE SHALL BE TAKEN, WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

ITEM SPECIAL - BRIDGE DECK GROOVING:

THE BRIDGE DECK GROOVING SHALL MEET CMS 511.20.

THE BRIDGE DECK GROOVING SHALL BE DONE PRIOR TO OPENING TO TRAFFIC.

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

ITEM 202 - REMOVAL MISC: STEEL DRIP STRIP:

THIS ITEM SHALL BE USED TO REMOVE THE DRIP STRIP ALONG BOTH SIDES OF THE STRUCTURE. THE COST TO REMOVE THE UPPER SHORT PIECES OF DRIP STRIP IS INCIDENTAL TO THIS ITEM.

CARE SHALL BE TAKEN TO NOT DAMAGE THE EXISTING PRESTRESSED BEAMS. IF THE BEAMS ARE DAMAGED, THE CONTRACTOR SHALL REPAIR THE BEAMS TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

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

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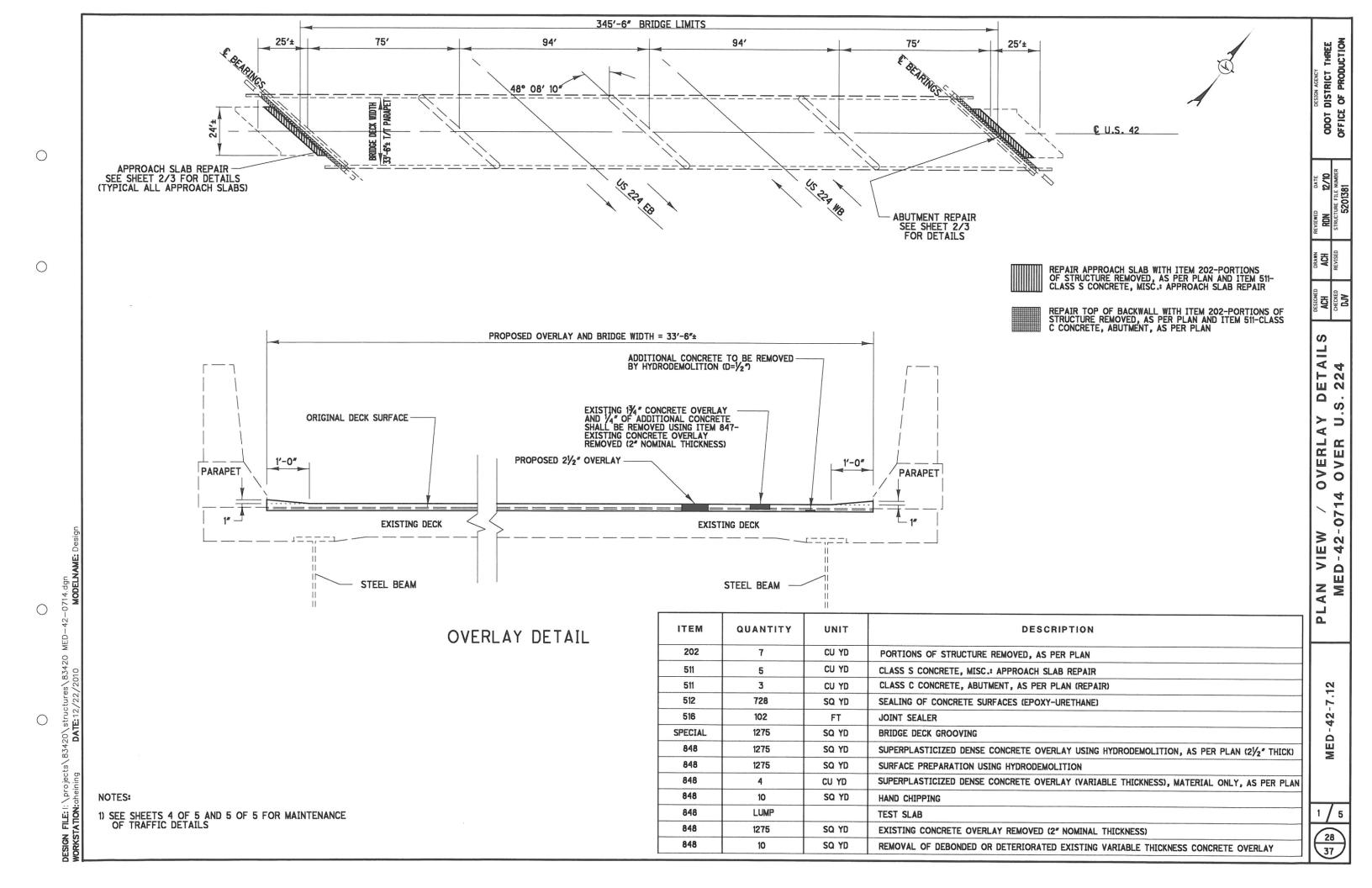
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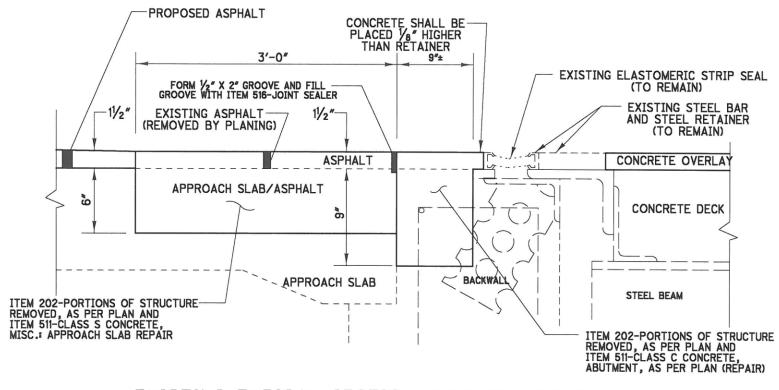
STRUCTURE FILE NO.	BRIDGE NO.	LOCATION	BRIDGE TYPE	SKEW	BRIDGE LIMITS	DECK WIDTH	PROPOSED WORK
5201381	MED-42-0714	OVER U.S. 224 OVER U.S. 42	4-SPAN STEEL BEAM	48° 8′ 10″ LF	345′-6″±	33'-6"± T/T PARAPETS	OVERLAY, ABUTMENT, BACKWALL & APPROACH SLAB REPAIR
5201454	MED-42-0945	OVER JIM'S RUN	1-SPAN CONC. BOX BEAM	30° 00′ LF	41'-4"±	44'-0"± DECK EDGE	REGROUT SHEAR KEYWAY, WATERPROOF DECK, PLANE AND PAVE QUANTITES WITH ROADWAY
5201462	MED-42-1179	OVER SMALL CREEK	1-SPAN CONC. BOX	17° 00′ RF	14' X 4' BOX	×	SEAL CONCRETE HEADWALLS & WINGWALLS PLANE AND PAVE WITH ROADWAY
5201497	MED-42-1229	OVER SMALL CREEK	1-SPAN CONC. BOX	00°	18' THREE SIDED BOX	40'-0"± DECK EDGE	SEAL CONCRETE HEADWALLS & WINGWALLS PLANE AND PAVE SURFACE COURSE ONLY WITH ROADWAY DO NOT PLANE EXISTING INTERMEDIATE COURSE TO AVOID DECK
5201535	MED-42-1264	INLET TO CHIPPEWA CREEK	1-SPAN CMP ELIPTICAL	9° 00′ RF	16' X 10' ELLIPTICAL		NO WORK - PLANE AND PAVE WITH ROADWAY
5201586	MED-42-1370	OVER SMALL CREEK	1-SPAN CONC. BOX	00°	20' THREE SIDED BOX	40'-0"± DECK EDGE	SEAL CONCRETE HEADWALLS & WINGWALLS PLANE AND PAVE WITH ROADWAY
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ODOT DISTRICT 3 OFFICE OF PRODUCTION





(TO REMAIN)



EXISTING TYPICAL SECTION THROUGH REPAIR THROUGH APPROACH SLAB

1. REPAIR APPROACH SLABS AS SHOWN IN PLAN WITH ITEM 202, PORTIONS OF STRUCTURE REMOVED, APP, ITEM 511, CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR, AND ITEM 516, JOINT SEALER.

2. REPAIR BACKWALLS AS SHOWN IN PLAN WITH ITEM 202, PORTIONS OF STRUCTURE REMOVED, APP, AND ITEM 511, CLASS C CONCRETE, ABUTMENT, AS PER PLAN.

- 3. ALL EXISTING REINFORCING STEEL SHALL BE PRESERVED.
- 4. THE PROPOSED OVERLAY ELEVATIONS SHALL MATCH THE EXISTING OVERLAY ELEVATION.

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ABUTMENT MED-42-071

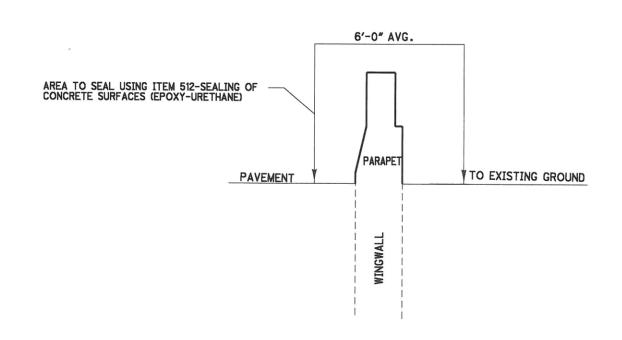
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9'-5"± AREA TO SEAL USING ITEM 512-SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) PARAPET CONCRETE DECK STEEL BEAM

PARAPET SEALING DETAIL

(PARAPET SEALING LENGTH ON DECK = 342'-6"±)



PARAPET SEALING OFF BRIDGE DETAIL (PARAPET SEALING LENGTH = 4'-0"±)

ITEM	OUANTITY	UNIT	DESCRIPTION
512	728	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ALL QUANTITIES CARRIED TO SHEET 1/5.

NOTES:

1) SEAL PARAPETS WITH ITEM 512

2) SEE SHEETS 4 OF 5 AND 5 OF 5 FOR MAINTENANCE OF TRAFFIC DETAILS

-42-7.12

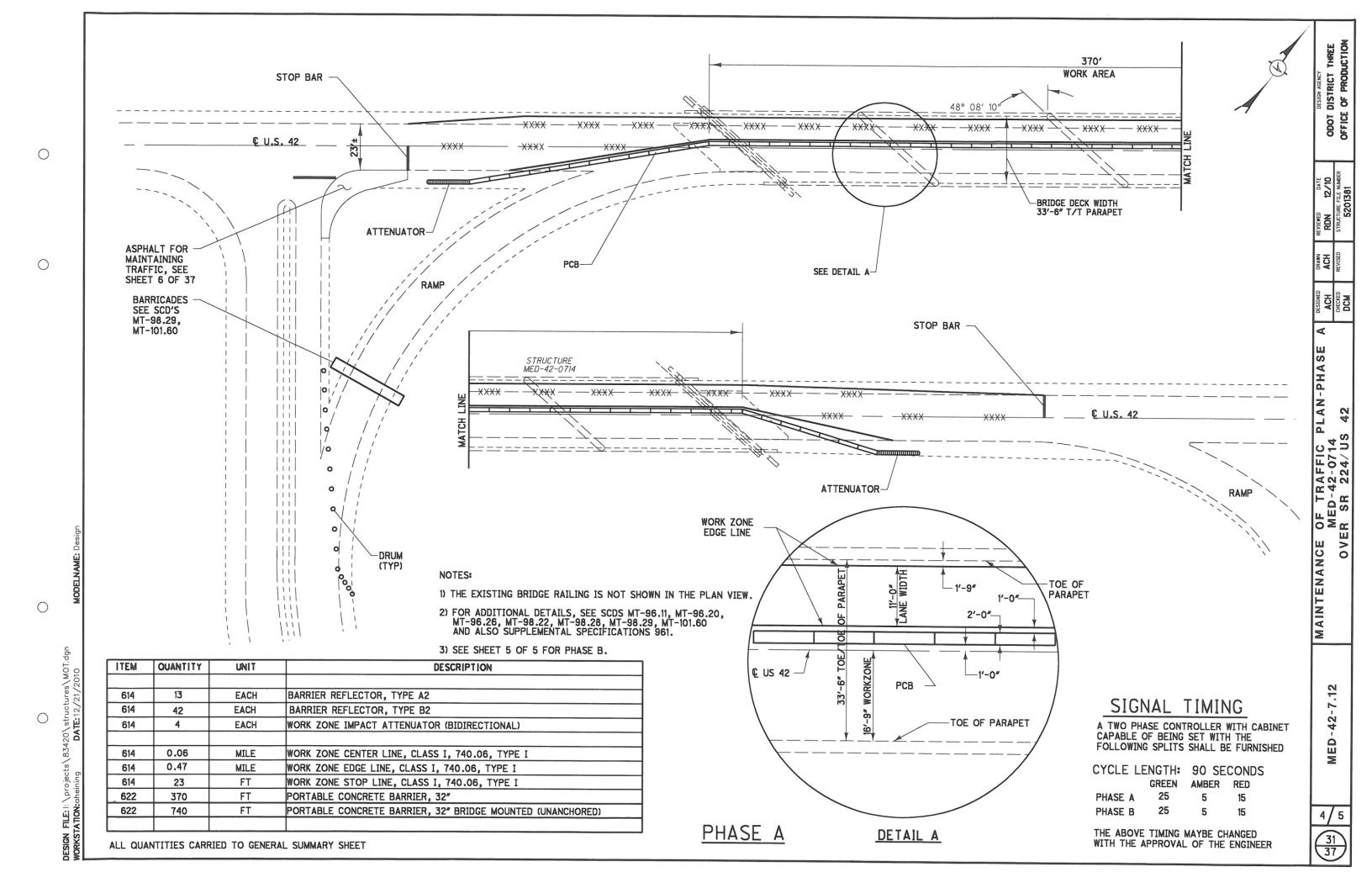
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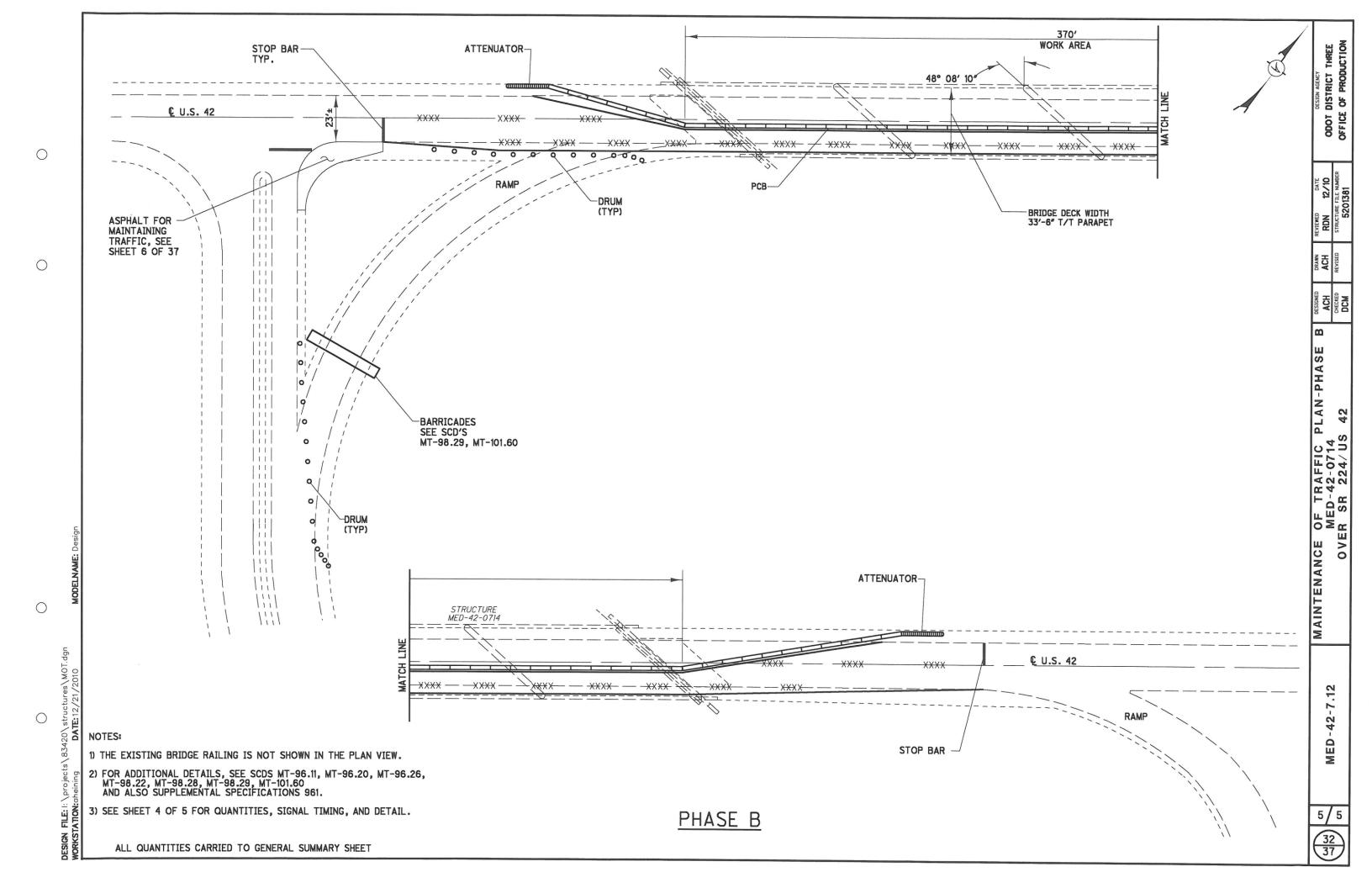
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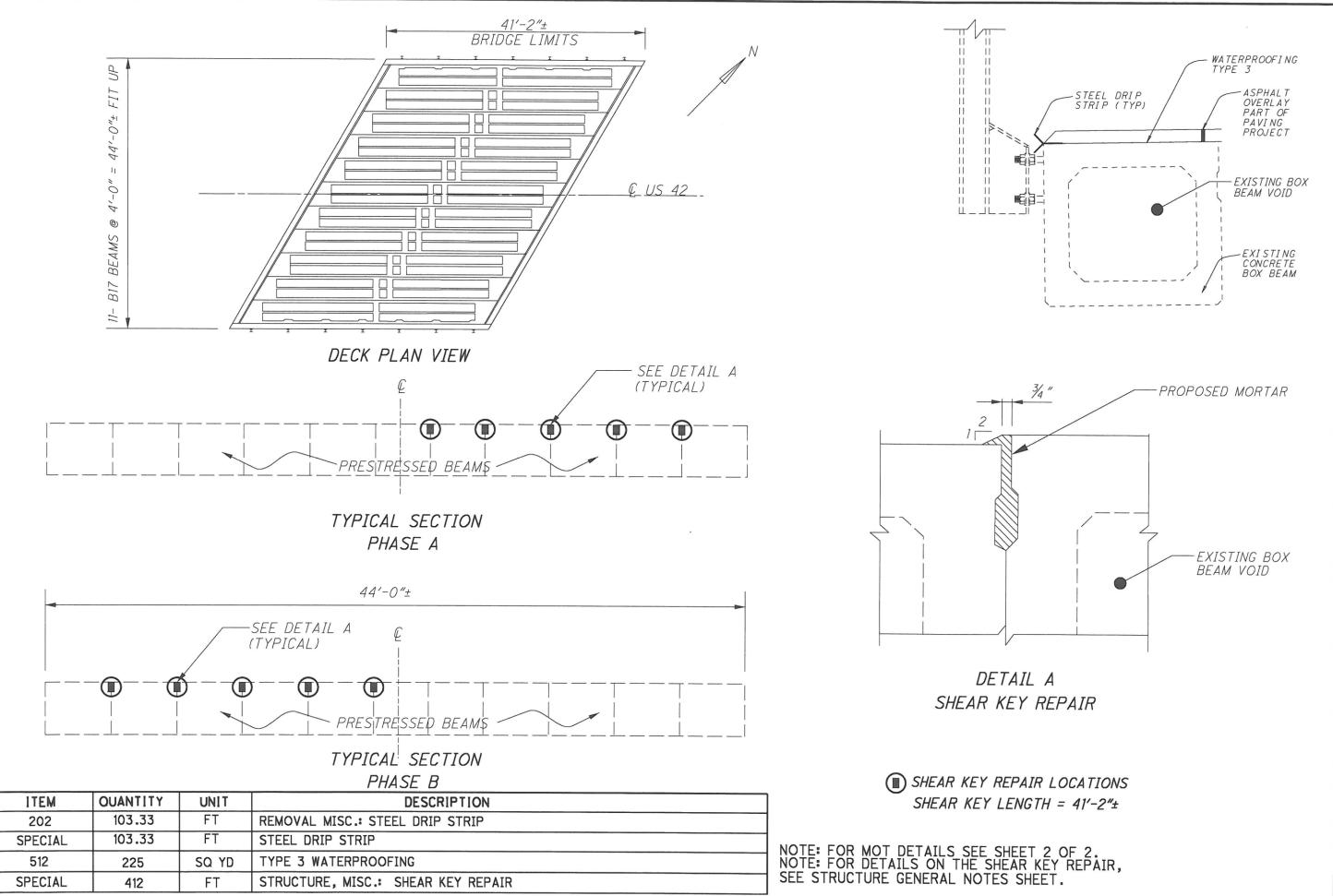
DETAILS OVER U.S.

SEALING -42-0714

MED







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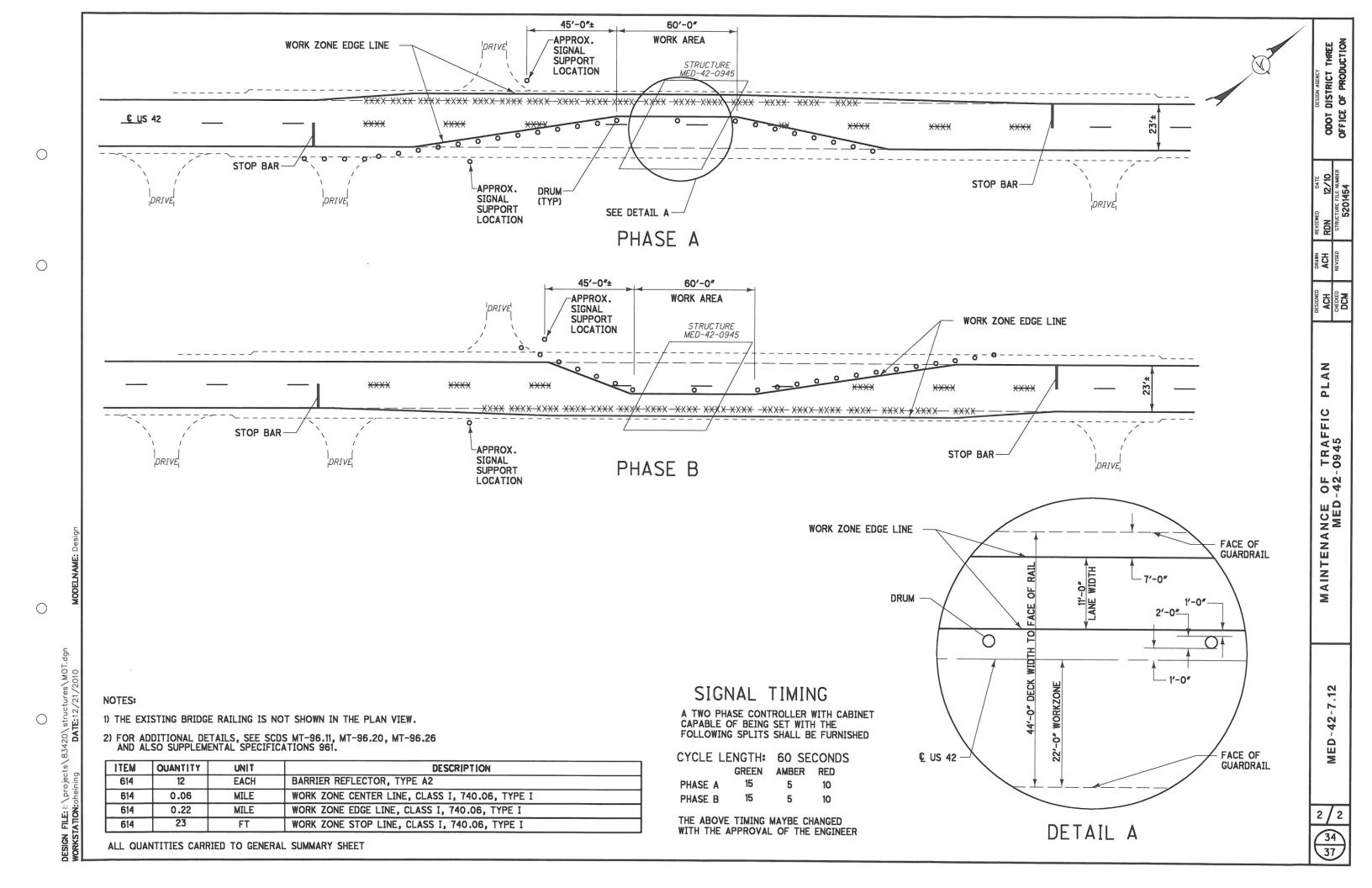
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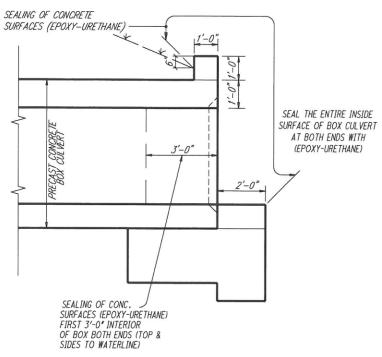
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MED-42-7.12

SHEAR KEY REPAIR DETAIL MED-42-0945 OVER JIM'S RUN

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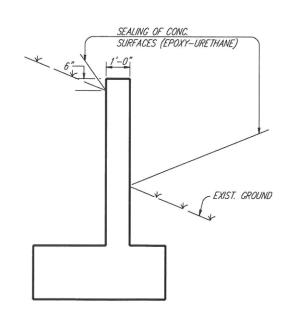
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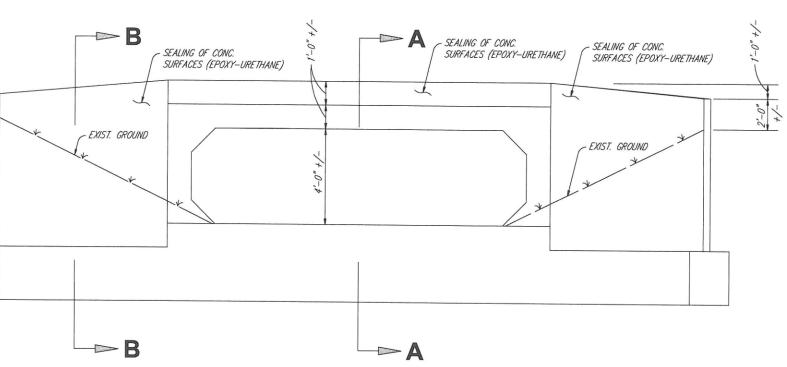
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SECTION A-A



SECTION B-B



16'-0" +/-

PLAN VIEW - HEAD WALL

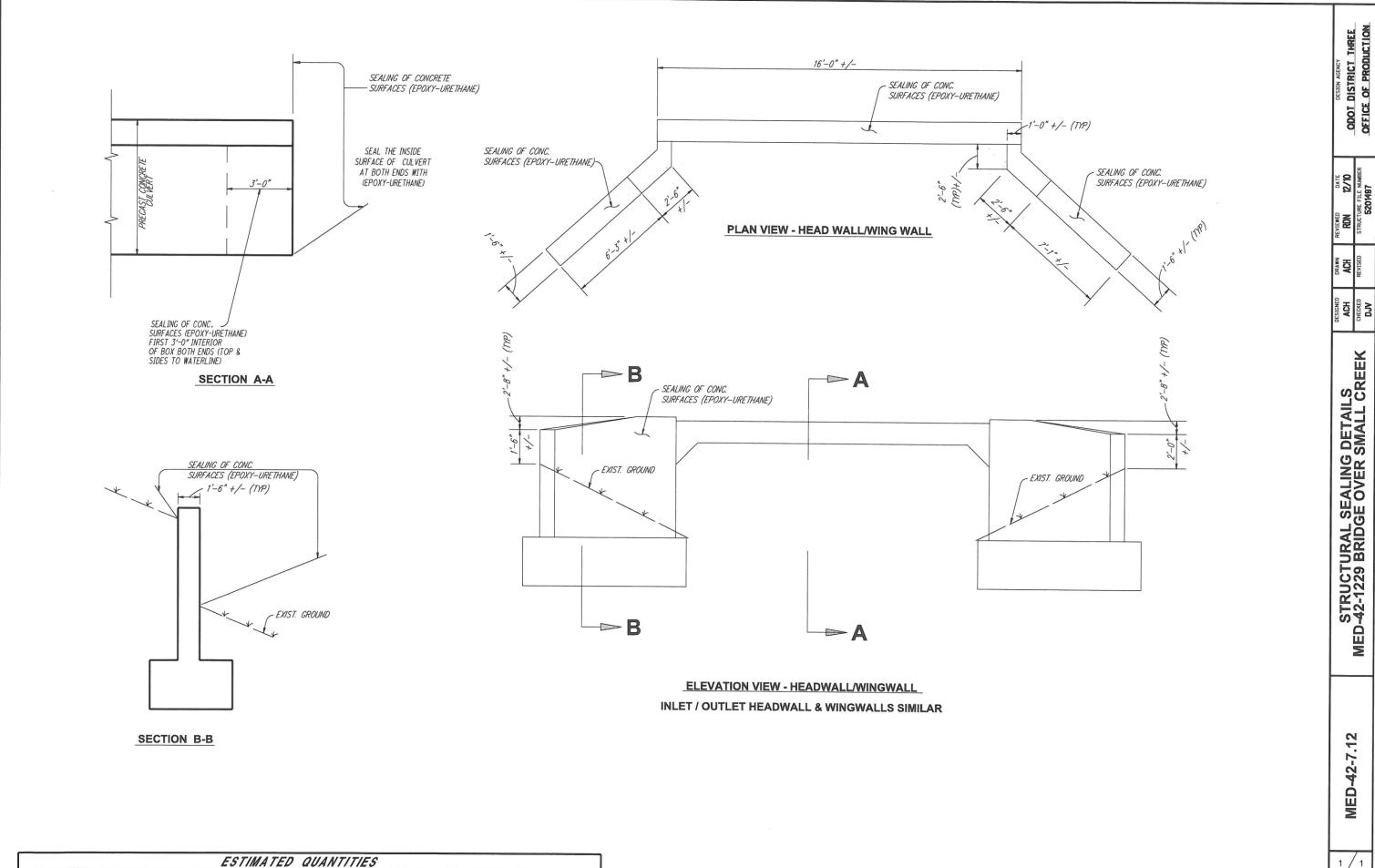
SEALING OF CONC. SURFACES (EPOXY—URETHANE)

ELEVATION VIEW - HEADWALL/WINGWALL
INLET / OUTLET HEADWALL & WINGWALLS SIMILAR

7'-0" +/-

SEALING OF CONC. SURFACES (EPOXY—URETHANE)

ESTIMATED QUANTITIES							
ITEM	QUANT.	UNIT	DESCRIPTION				
512	58	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY - URETHANE)				



ITEM QUANT. UNIT DESCRIPTION

512 68 SQ. YD. SEALING OF CONCRETE SURFACES (EPOXY - URETHANE)

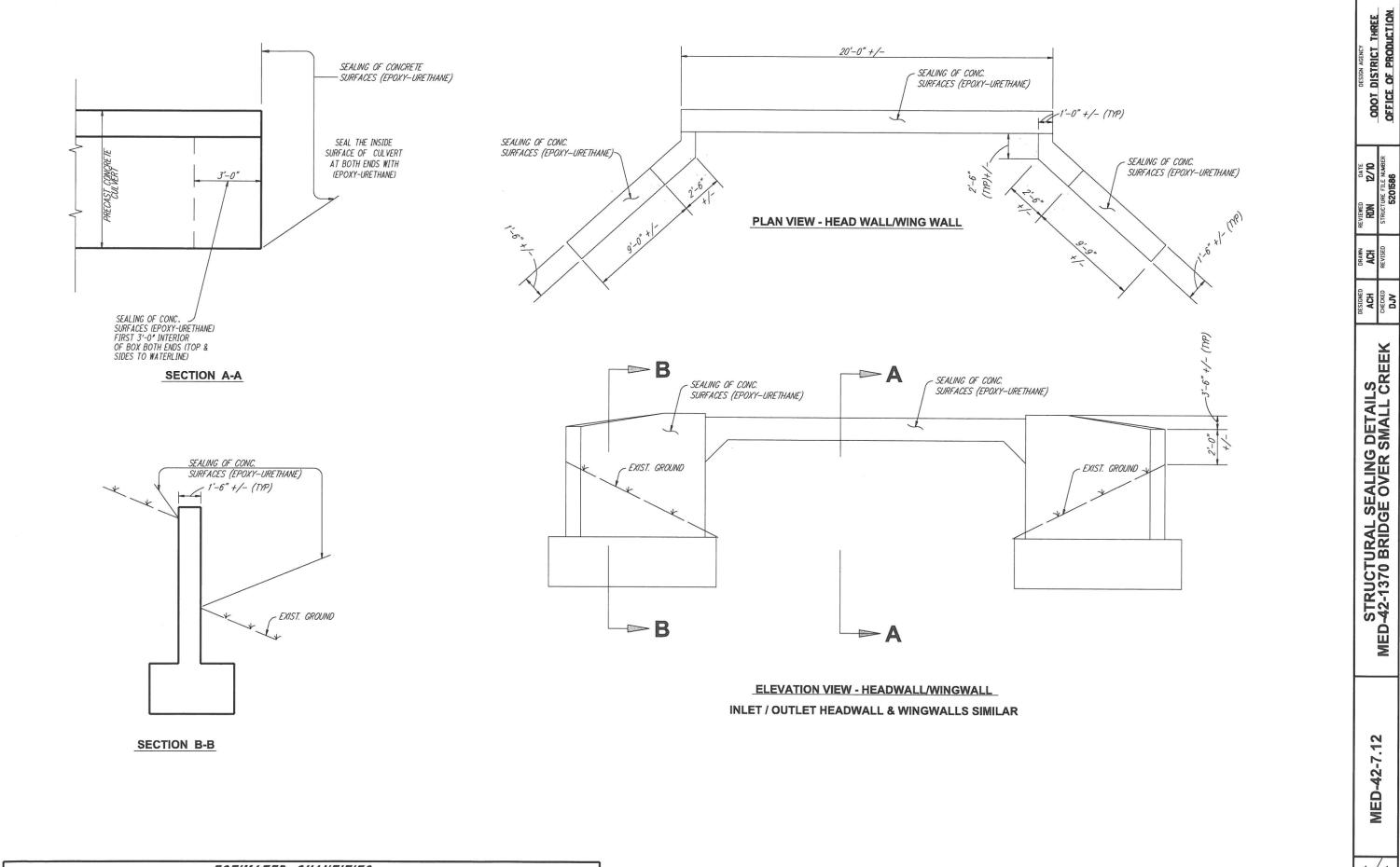
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NOTE: ALL QUANTITIES CARRIED TO SHEET 25 OF 37



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ITEM QUANT. UNIT DESCRIPTION

512 88 SQ. YD. SEALING OF CONCRETE SURFACES (EPOXY - URETHANE)

NOTE: ALL QUANTITIES CARRIED TO SHEET 25 OF 37