LOCATION MAP

LATITUDE: 40°46'43" LONGITUDE: 82°25'45"

SCALE IN MILES

INTERSTATE & DIVIDED HIGHWAY.

UNDIVIDED STATE & FEDERAL ROUTES._____

OTHER ROADS

PORTION TO BE IMPROVED _____

STRUCTURAL

ENGINEERS SEAL:

DAVID

C.

MOLLENSHOTT

E-50210

E-50210

STATE OF OHIO, DEPARTMENT OF TRANSPORTATION RIC/ASD-30-13.18/0.00 RIC-42-13.74 MADISON TOWNSHIP MIFFLIN TOWNSHIP RICHLAND COUNTY ASHLAND COUNTY

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC/DESIGN DESIGNATION	2-8
TYPICAL SECTIONS	9-12,124
GENERAL NOTES	13-14
MAINTENANCE OF TRAFFIC NOTES/RAMP DETOURS	15-24
MAINTENANCE OF TRAFFIC PLAN SHEETS	25-37
GENERAL SUMMARY	38-40
PAVEMENT REPLACEMENT AT STRUCTURES	41
PAVEMENT AND SHOULDER DATA	42-43
PAVEMENT REPAIR QUANTITIES	44-48
REST AREA PAVEMENT REPLACEMENT-TRUCK PARKING	49-50
GUARDRAIL NOTES	51-54
GUARDRAIL SUB-SUMMARY	55-56
	<i>57-67</i>
	68
	69-70
PAVEMENT MARKING SUB-SUMMARY	71-72
REST AREA PAVEMENT MARKINGS	73-74
RPM SUB-SUMMARY	75
STRUCTURE SUMMARY	76-82
CTR/OT/OF TARREST	83-87
CTRUCTURE RETURN	88
STRUCTURE DETAILS	89-116

PROJECT DESCRIPTION

RESURFACING, INCLUDING PAVEMENT PLANING. PAVEMENT REPAIRS, CONCRETE PAVEMENT REPLACEMENT AT REST AREA, GUARDRAIL REPAIR, TRAFFIC CONTROL ITEMS, AND STRUCTURE MAINTENANCE.

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTRURBED AREA: N/A NOTICE OF INTENT EARTH DISTURBED AREA:

LIMITED ACCESS

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

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 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.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED			
DATE	DIRECTOR,	DEPARTMENT	OF
	TRANSPORT	TATION	

PLAN PREPARED BY:

UNDERGROUND UTILITIES CONTACT BOTH SERVICES CALL TWO WORKING DAYS

BEFORE YOU DIG 1-800-362-2764

SUPPLEMENTAL

OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988



DATE: 7-12-101

ROADWAY

ENGINEERS SEAL:

TE OF ON

JOSEPH

SCHAFRATH

ATE OF ONLY BP-3.1 BP-5.1 BP--9.1 DM-1.1 DM-4.3 DM-4.4 GR-3.2

SPECIFICATIONS 7/18/08 GR-4.2 1/19/07 MT-35.10 4/20/01MT-98.28 7/17/09 TC-71.10 1/16/09 55800 10/19/07 GR-5.1 4/16/10 MT-95.30 7/17/09 MT-98.29 7/17/09 TC-72.20 10/16/09 55832 5/5/09 7/28/00 GR-6.1 4/16/10 MT-95.31 7/17/09 MT-99.20 1/16/09 TC-73.10 1/19/01 SS847 4/16/10 4/15/05 MT-95.32 7/17/09 MT-101.60 4/17/09 TC-82.10 10/16/09 55849 1/19/07 RM-4.2 10/19/07 MT-95,40 7/17/09 MT-101.70 1/16/09 55961 10/17/08 7/30/07 RM-4.5 10/16/09 MT-95.50 4/17/09 MT-101.90 1/16/09 RM-4.6 4/16/10 MT~95.61 I/16/09 MT-105.10 1/16/09 4/21/06 MT-96.11 1/16/09 4/17/09 DS-1-92 7/18/03 MT-96.20 1/16/09 TC-41.20 1/19/01 4/17/09 EXJ-2-81 7/19/02 MT-96.26 1/16/09 TC-42.10 1/19/07 SPECIAL. 5/10/82 MT-97.10 FB-1-82 4/17/09 TC-42.20 7/16/04 7/16/04 GSD-1-96 **PROVISIONS** 7/19/02 MT-97.11 4/17/09 TC-52.10 1/19/07 1/16/04 PCB-91 7/19/02 MT-98.10 7/17/09 TC-52.20 1/19/07 10/16/09 RB-1-55 2/2/59 MT-98.11 7/17/09 TC~61.30 4/16/10 10/16/09 TST-1-99 7/17/09 TC-65.10 4/18/08 MT-98.20 1/21/05 10/16/09 MT-98.22 7/17/09 TC-65.11

STANDARD CONSTRUCTION DRAWINGS

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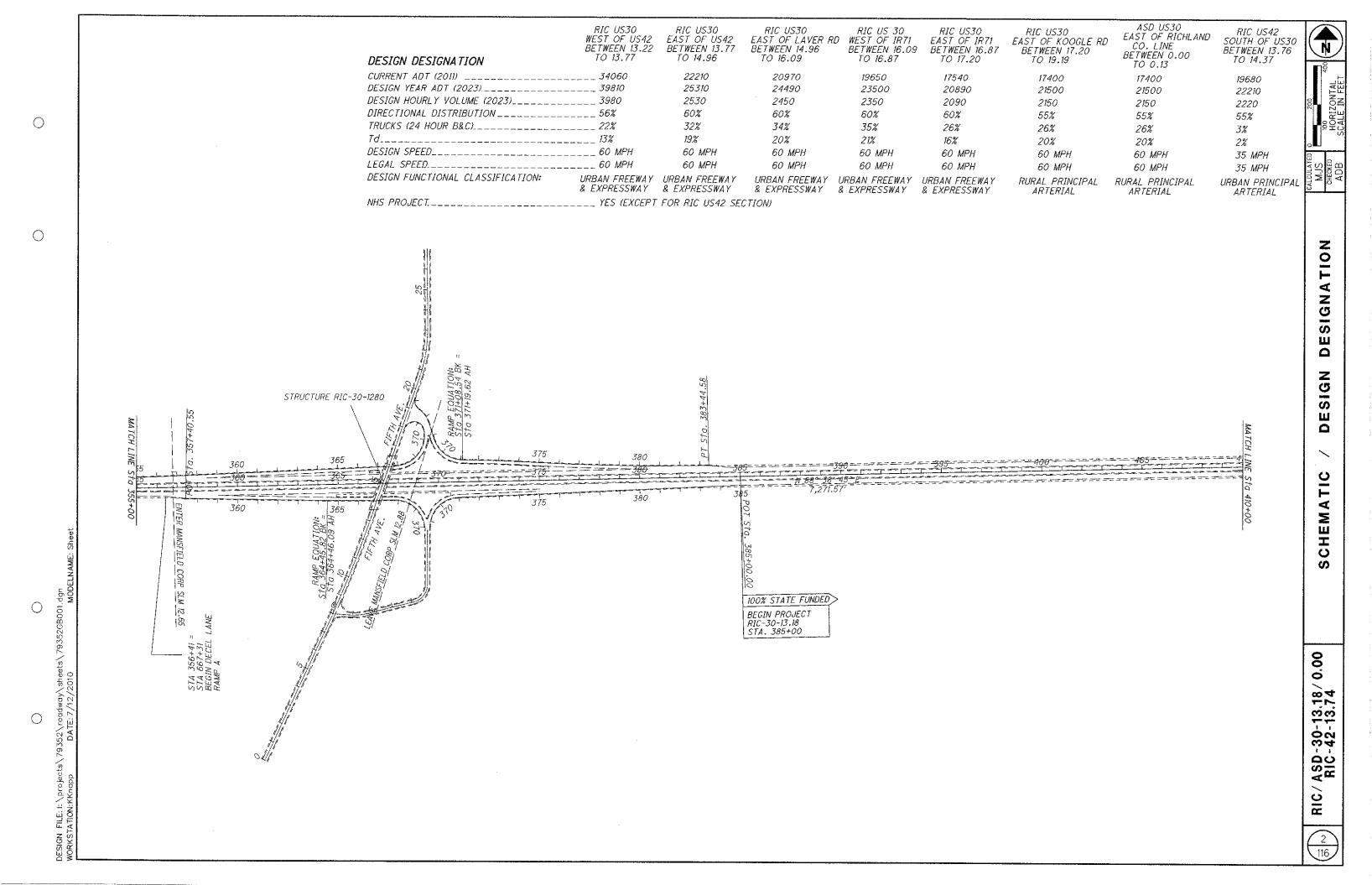
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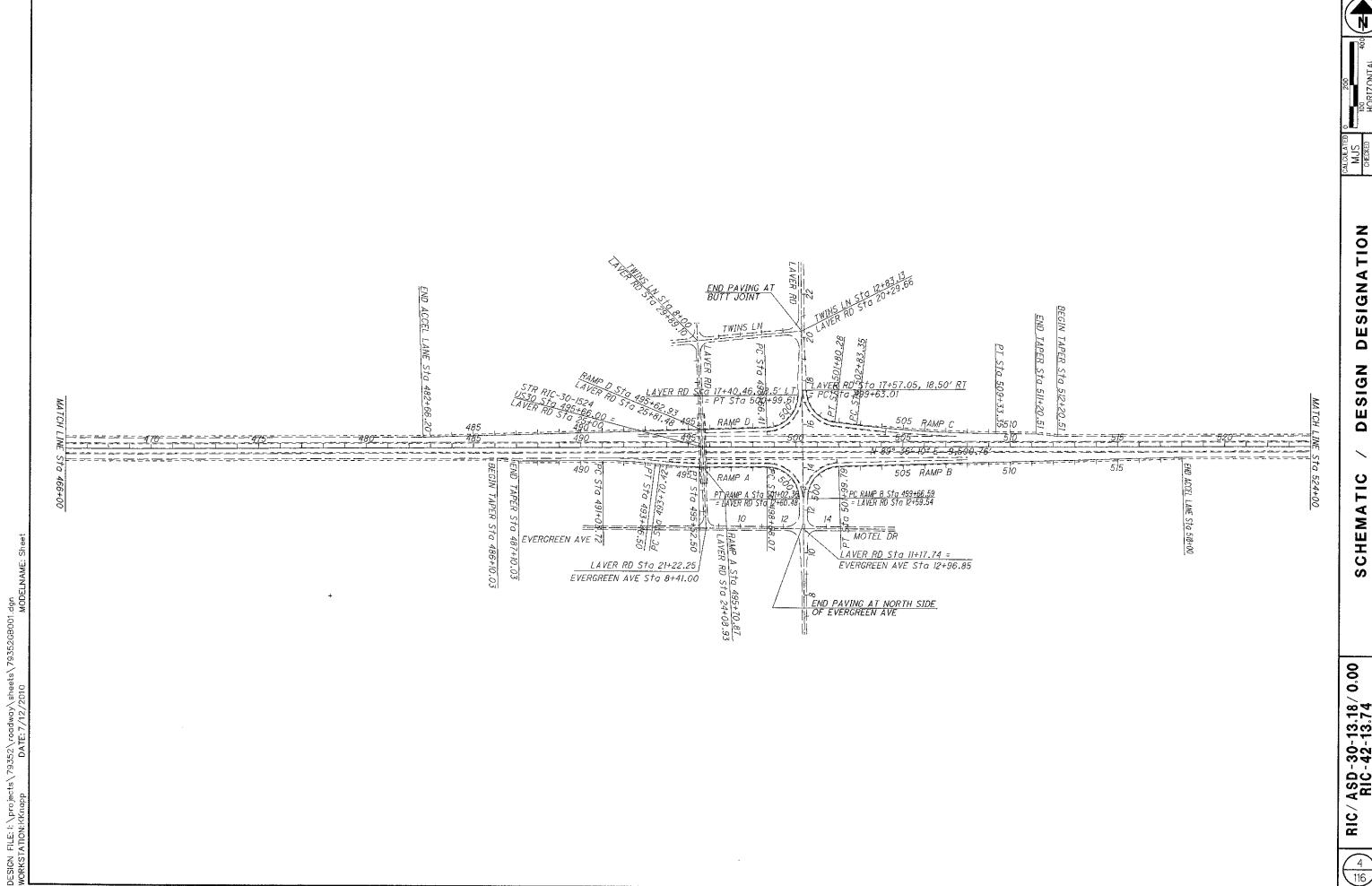
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ASD-30-13.18 RIC-42-13.74 RIC/

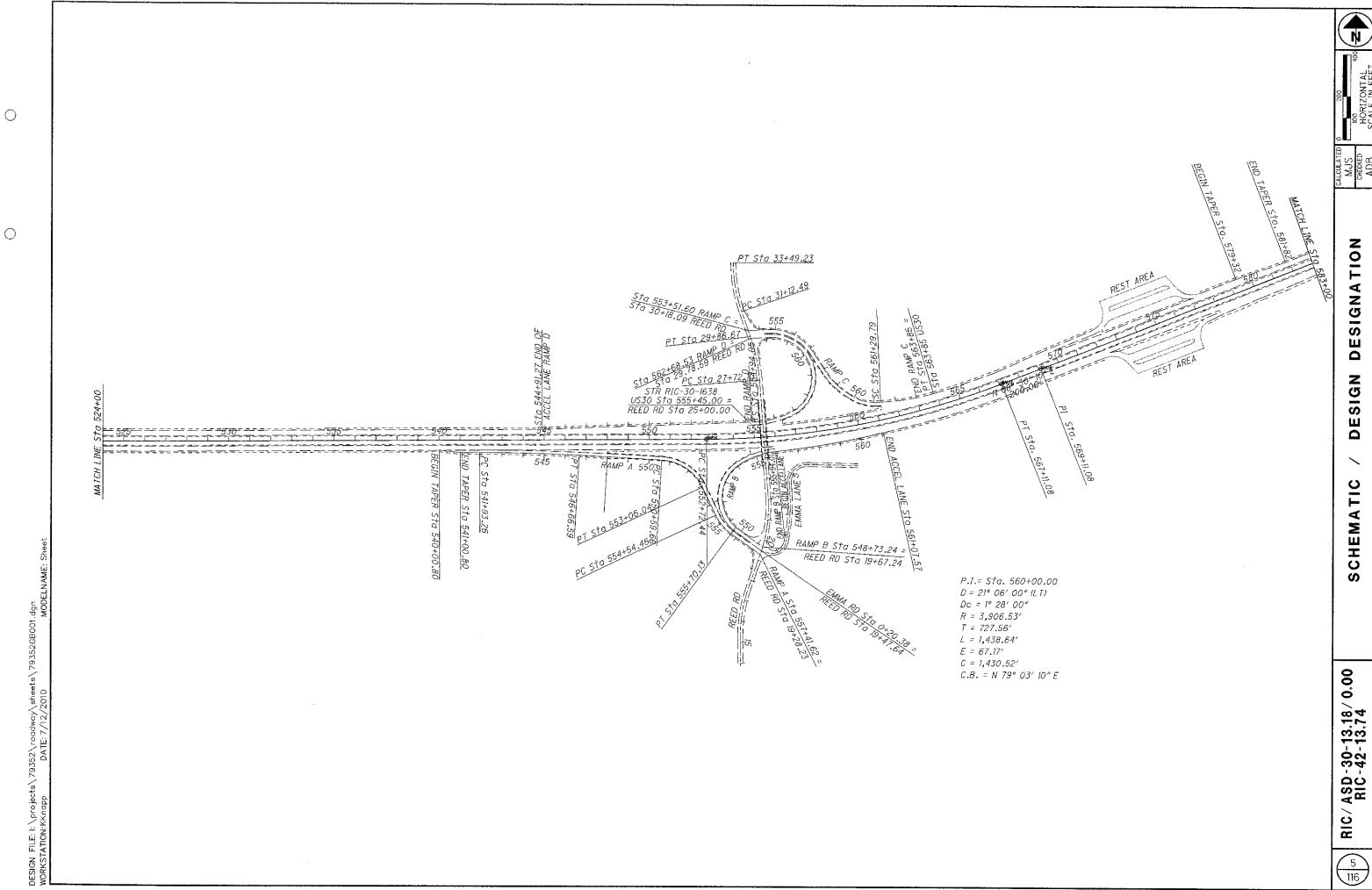


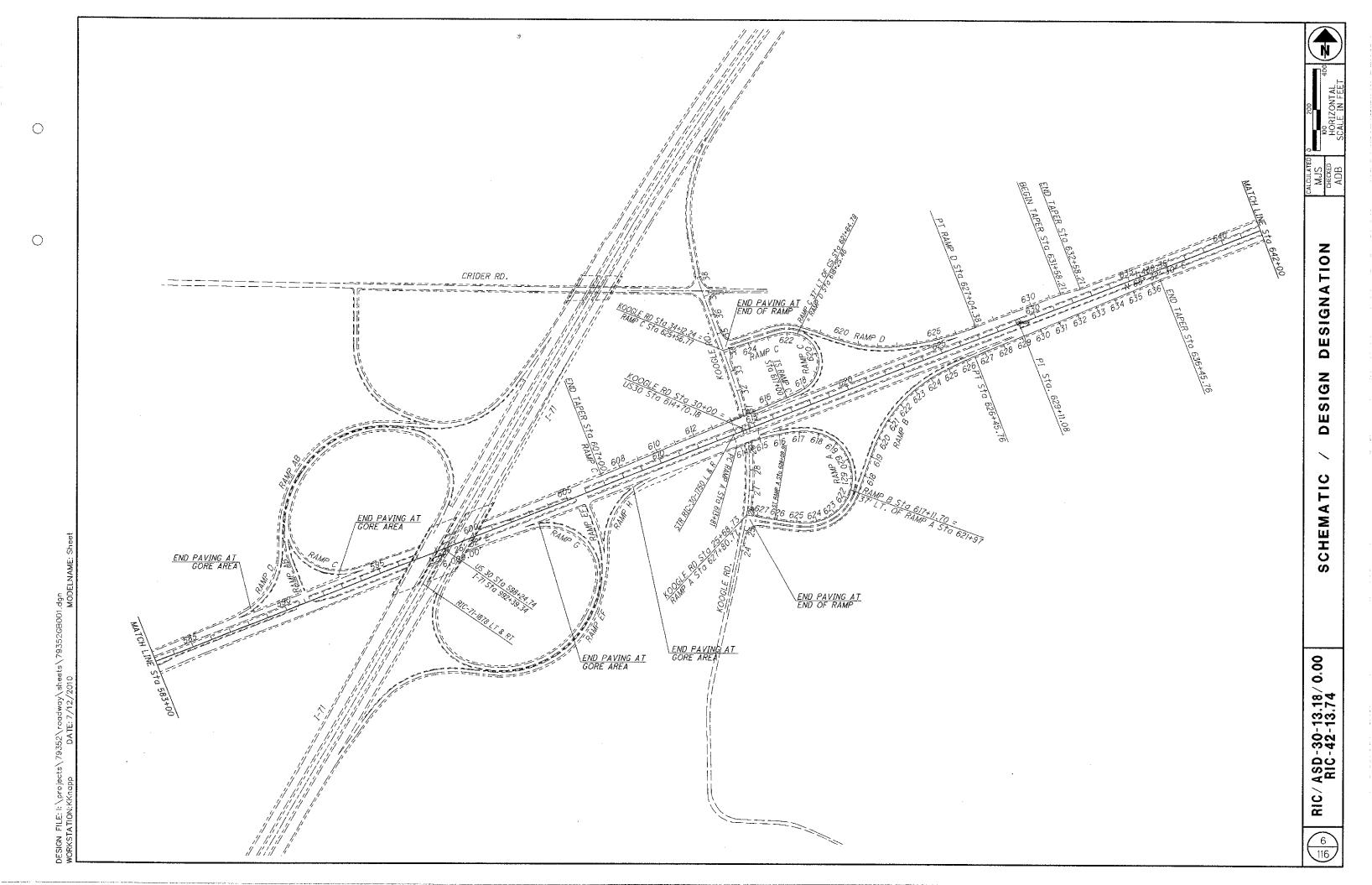
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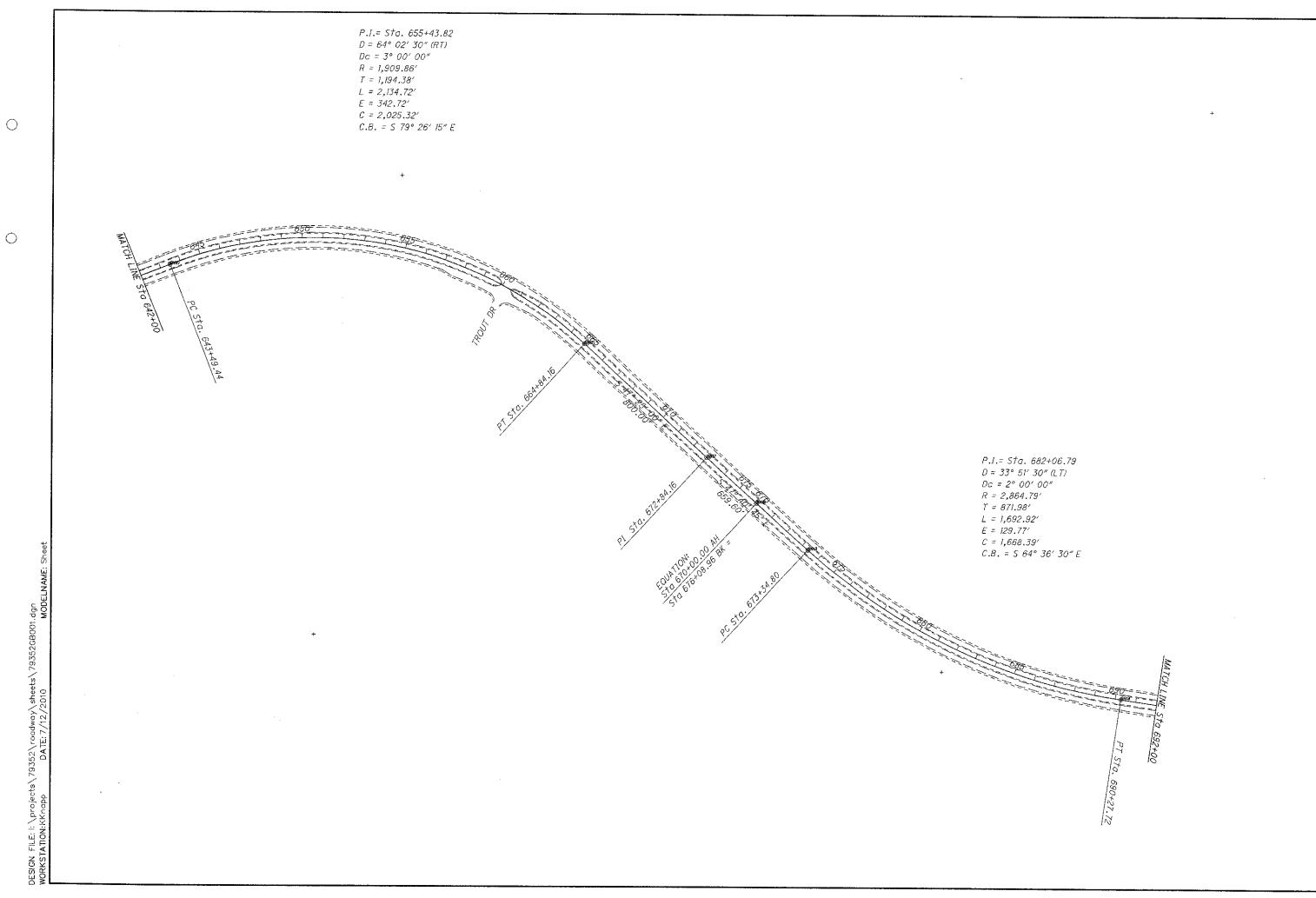
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RIC/ ASD-30-13.18/0.00 RIC-42-13.74

DESIGNATION







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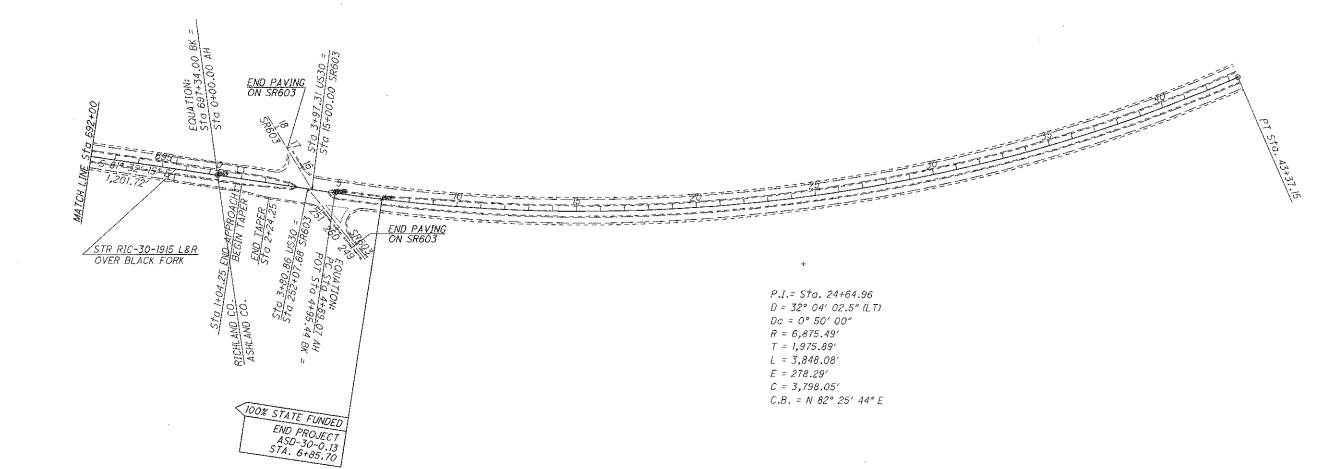
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MJS CHECKED ADB

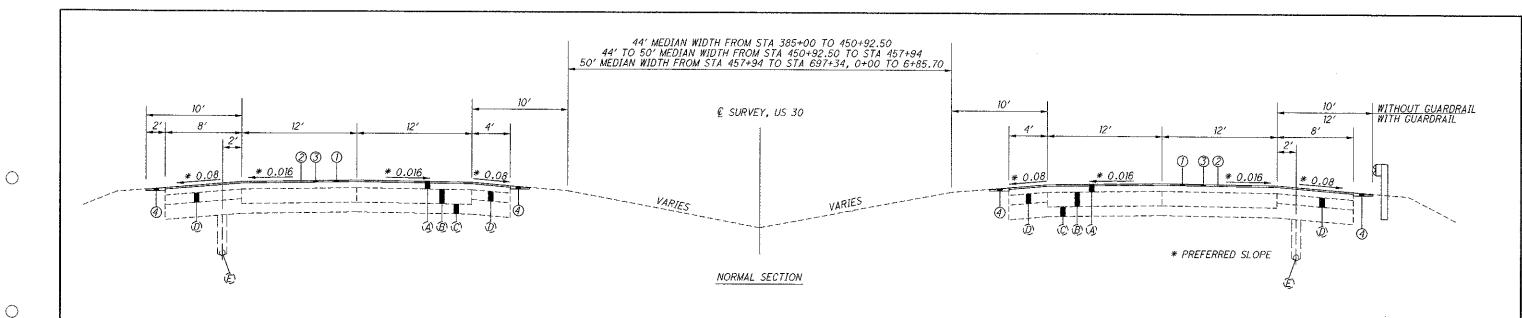
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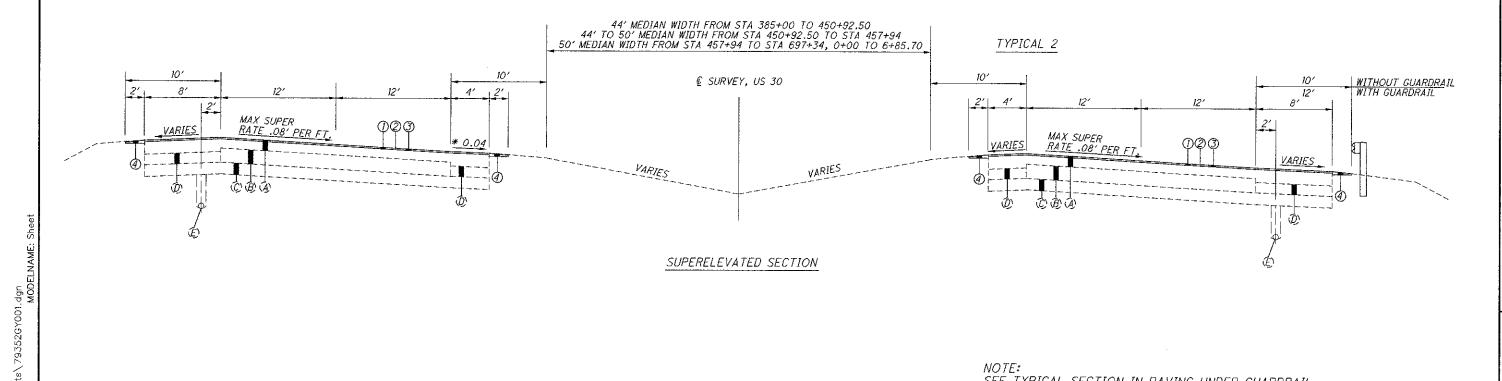
SCHEMATIC / DESIGN

RIC/ASD-30-13.18/0.00 RIC-42-13.74



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SEE TYPICAL SECTION IN PAVING UNDER GUARDRAIL IN THE GUARDRAIL GENERAL NOTES (SHEET XXX) FOR TYPICAL SECTIONS WITH GUARDRAIL.

LEGEND - PROPOSED

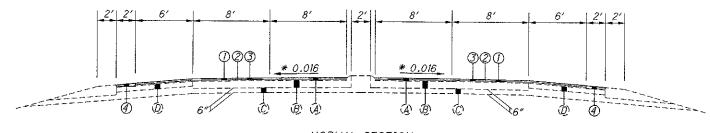
- 1.75" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- ② ITEM 407 TACK COAT
- ③ 1.75" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- 4 ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

LEGEND - EXISTING

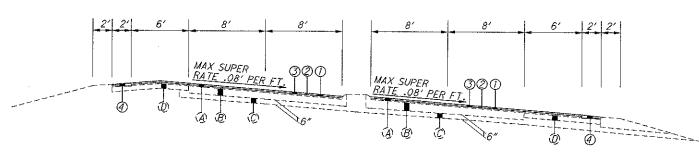
- (A) EXISTING ASPHALT CONCRETE VARIES, SEE PAVEMENT CORING INFORMATION
- EXISTING 9" REINFORCED CONCRETE
- EXISTING VARIABLE DEPTH SUBBASE
- EXISTING VARIABLE DEPTH AGGREGATE BASE
- EXISTING UNDERDRAIN



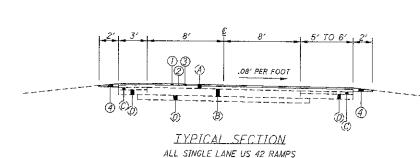
NOTE: DIRECTION OF NORMAL TRANSVERSE SLOPE IS TO BE THE SAME AS ADJACENT SUPERELEVATION.



NORMAL SECTION US 42 RAMP T



SUPERELEVATED SECTION US 42 RAMP T



SUPERFLEVATED SECTION US 42 RAMPS Tr, Tl, and Ul

MAX SUPER RATE. 08' PER FOOT

SEE TYPICAL SECTION IN PAVING UNDER GUARDRAIL IN THE GUARDRAIL GENERAL NOTES (SHEET XXX) FOR TYPICAL SECTIONS WITH GUARDRAILS.

LEGEND - PROPOSED

- 1.75" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- 2) ITEM 407 TACK COAT
- 3 1.75" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) (4) ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

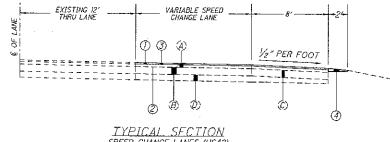
LEGEND - EXISTING

- (A) EXISTING ASPHALT CONCRETE VARIES,
- (SEE ASPHALT CONCRETE THICKNESS CHART ON THIS SHEET)
- (B) EXISTING 9" REINFORCED CONCRETE
- © EXISTING VARIABLE DEPTH SUBBASE
- D EXISTING 6" STABILIZED CRUSHED AGGREGATE
- E EXISTING BITUMINOUS AGGREGATE BASE

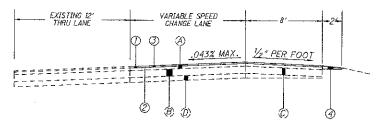
US42 RAMPS			
RAMP	EXISTING ASPHALT CONCRETE THICKNESS		
T	5.25"		
U (MID)	3.5"		
UR	4.5"		
UL	1.5"		
А	UNKNOWN		
В	UNKNOWN		

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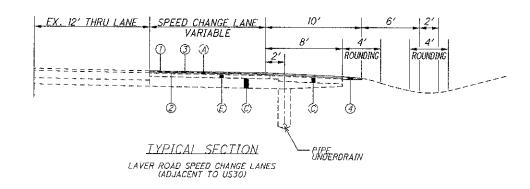




SPEED CHANGE LANES (US42) (ADJACENT TO US30)

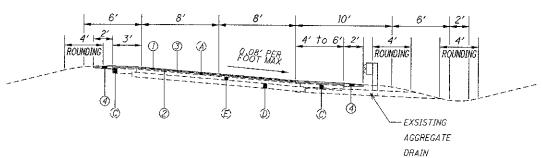


SUPFREI FVATFD SECTION SPEED CHANGE LANES (US42) (ADJACENT TO US30)

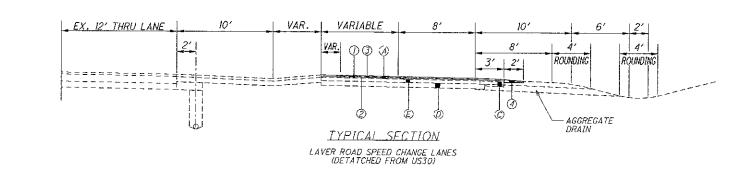


41 21 4' to 6' 2' %″ PER ROUNDING ROUNDING ROUNDING FOOT MAX **(4)** 4 AGGREGATE DRAIN TYPICAL SECTION

LAVER, REED, AND KOOGLE ROAD RAMPS



SUPERFI EVATED SECTION LAVER, REED AND KOOGLE ROADS RAMPS



SEE TYPICAL SECTION IN PAVING UNDER GUARDRAIL IN THE GUARDRAIL GENERAL NOTES (SHEET XXX) FOR TYPICAL SECTIONS WITH GUARDRAIL.

*LEGEND - PROPOSED

- 1.75" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- ② ITEM 407 TACK COAT

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sets\79352GY001.dgn MODELNAME:

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3 1.75" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)

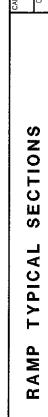
(4) ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

LEGEND - EXISTING

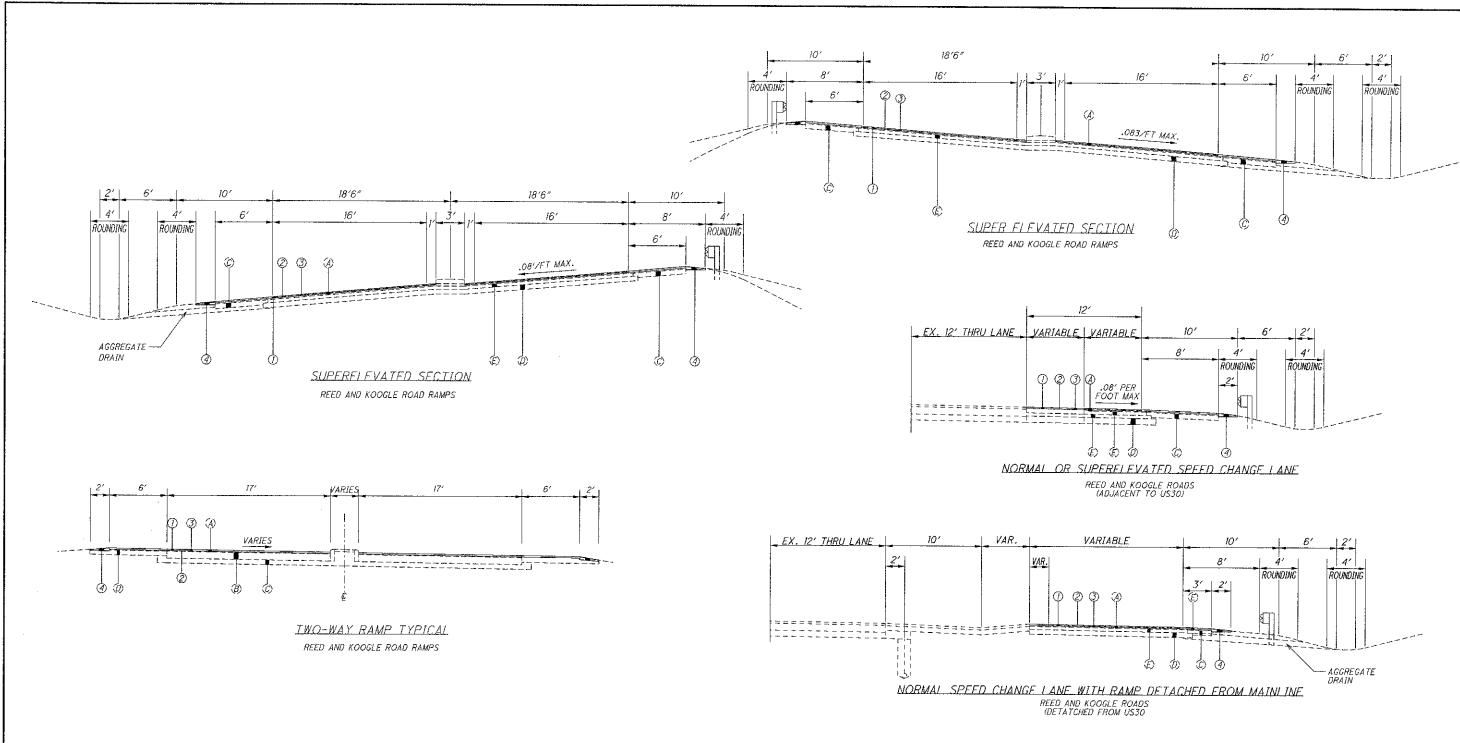
- EXISTING ASPHALT CONCRETE VARIES,
- (SEE ASPHALT CONCRETE THICKNESS CHART ON THIS SHEET) EXISTING 9" REINFORCED CONCRETE
- EXISTING VARIABLE DEPTH SUBBASE
- (D) EXISTING 6" STABILIZED CRUSHED AGGREGATE
- (E) EXISTING BITUMINOUS AGGREGATE BASE

LAV	'ER ROAD RAMPS	REED ROAD RAMPS		
RAMP	EXISTING ASPHALT CONCRETE THICKNESS	RAMP	EXISTING ASPHALT CONCRETE THICKNESS	
Α	3.5"	А	3.0"	
В	5.5"	В	3.25"	
С	3.5"	С	3.5"	
D	3.5"	D	2.0"	

(116)







NOTE: SEE TYPICAL SECTION IN PAVING UNDER GUARDRAIL IN THE GUARDRAIL GENERAL NOTES (SHEET XXX) FOR TYPICAL SECTIONS WITH GUARDRAIL.

LEGEND - PROPOSED

- ① 1.75" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- 2 ITEM 407 TACK COAT

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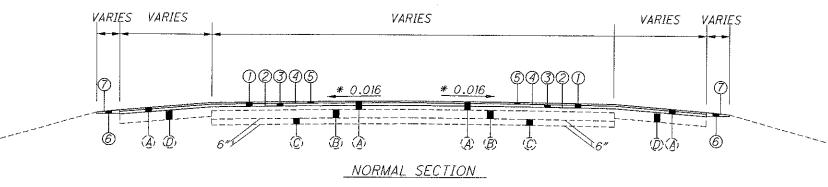
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- 3 1.75" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
- (4) ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

LEGEND - EXISTING

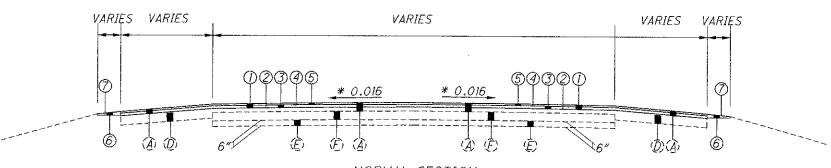
- (A) EXISTING ASPHALT CONCRETE VARIES,
 - (SEE ASPHALT CONCRETE THICKNESS CHART ON THIS SHEET)
- B) EXISTING 9" REINFORCED CONCRETE
- © EXISTING VARIABLE DEPTH SUBBASE
- (D) EXISTING 6" STABILIZED CRUSHED AGGREGATE
- EXISTING BITUMINOUS AGGREGATE BASE

KOOGLE ROAD RAMPS			
RAMP	EXISTING ASPHALT CONCRETE THICKNESS		
Α	3.0"		
В	2.0"		
С	1.5"		
D	2.25"		



US 42 MAINLINE SLM 13.81 TO 14.17

* PREFERRED SLOPE



NORMAL SECTION

US 42 MAINLINE SLM 13.74 TO 13.81 SLM 14.17 TO 14.38

* PREFERRED SLOPE

LEGEND - PROPOSED

- 1 2.75" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- ② ITEM 407 TACK COAT

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ets\79352GY001.dgn MODEL

- 3 1.50" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN
- 4 ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
- 1.25" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN
- 6 ITEM 617 COMPACTED AGGREGATE, AS PER PLAN
- (7) ITEM 408 PRIME COAT

<u>LEGEND - EXISTING</u>

- (A) EXISTING ASPHALT CONCRETE VARIES
- EXISTING 9" REINFORCED CONCRETE
- EXISTING VARIABLE DEPTH SUBBASE
- D EXISTING BITUMINOUS AGGREGATE BASE
- (E) EXISTING BRICK
- **(F)** EXISTING PLAIN CONCRETE



WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

UTILITIES

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

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

CABLE T.V. TIME WARNER 1575 LEXINGTON AVE. MANSFIELD, OHIO 44901 419-756-6091 EXT 5136

TELEPHONE VERIZON 1534 SR511 SOUTH ASHLAND, OHIO 44805 419-282-6551

TELEPHONE CENTURYLINK 175 ASHLAND ROAD MANSFIELD, OHIO 44907 419-755-7956

ODOT 906 N. CLARK ST. ASHLAND, OHIO 44805 419 281-0513

CITY OF MANSFIELD 30 N. DIAMOND STREET MANSFIELD, OHIO 44902 419 755-9702

OHIO AMERICAN WATER 5481 BUENOS AIRES BLVD. WESTERVILLE, OHIO 43081 614-882-6586

AQUA OHIO 877-987-2782 COLUMBIA GAS OF OHIO 1120 W. 4TH ST MANSFIELD, OHIO 44906 419-528-1137

COLUMBIA GAS TRANSMISSION 589 NORTH STATE ROAD MEDINA, OHIO 44256 330-721-4163

ELECTRIC OHIO EDISON 1717 ASHLAND ROAD MANSFIELD, OHIO 44905 419-521-6233

FL FCTRIC FIRELANDS ELECTRIC ONE ENERGY PLACE NEW LONDON, OHIO 44851 419-929-1571

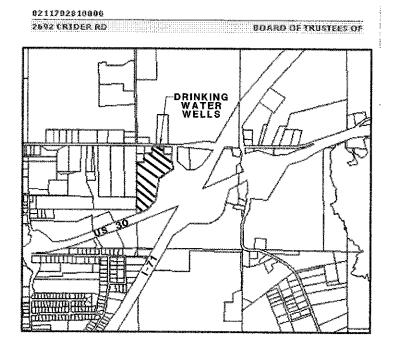
MADISON WATER DISTRICT 489 INDIANA AVE. MANSFIELD, OHIO 44905

WASTE WATER RICHLAND COUNTY SANITARY ENGINEER 50 PARK AVE. EAST MANSFIELD, OHIO 44902

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

DRINKING WATER PROTECTION

THIS PROJECT IS LOCATED IN OR NEAR THE SOURCE OF A PUBLIC DRINKING WATER SUPPLY. IN ORDER TO MINIMIZE THE POTENTIAL TO CONTAMINATE THIS WATER SUPPLY, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL NOT BE PERFORMED FROM STA. 555+00 TO STA. 590+00 ON US30. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENTS SHALL BE REPORTED IMMEDIATELY TO LARRY MEEGAN OF MADISON TOWNSHIP WATER DISTRICT AT 419-886-4716. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTACT A LOCAL HAZARDOUS MATERIAL RESPONSE TEAM FOR CLEAN UP OF THE SPILL.



DRAINAGE ITEMS

<u> ITEM 604 - CASTINGS ADJUSTED TO GRADE</u>

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

HEADWALL AND PIPE REMOVAL AND REPLACEMENT

THERE IS AN EROSION PROBLEM IN THE MEDIAN ON US30 AT THE EAST END OF STRUCTURES RIC-30-1915 L&R. THE FULL HEIGHT HEADWALL AND CONNECTING 12" CONCRETE PIPE HAS SEPARATED FROM THE REMAINING 12" PIPE. THE CONTRACTOR IS REQUIRED TO REMOVE THE HEADWALL AND 6 FT OF CONNECTING 12" CONCRETE PIPE AND REPLACE WITH 6 FT OF 12" CONCRETE PIPE AND A NEW HALF HEIGHT HEADWALL. THE CONNECTION BETWEEN THE PIPES SHALL NEW HALF MELONI MELDWALL. THE CONNECTION BETWEEN THE FIFES SMALL HAVE A MASONRY COLLAR. EMBANKMENT WILL BE NEEDED TO RE-ESTABLISH A SOLID FOUNDATION TO PLACE THE HEADWALL AND PIPE. ROCK CHANNEL PROTECTION WITH AGGREGATE FILTER WILL BE NEEDED AT THE OUTLET. ROCK CHANNEL PROTECTION SHALL BE A MINIMUM OF 4 FT WIDE AND 18" THICK. THE FOLLOWING QUANTITIES ARE TO BE USED FOR THIS WORK:

ITEM 202 HEADWALL REMOVED	I EACH
ITEM 202 PIPE REMOVED, 24" AND UNDER	6 FT
ITEM 203 EMBANKMENT, AS PER PLAN	15 CU YD
ITEM 601 ROCK CHANNÉL PROTECTION, TYPE C WITH	7 CU YD
AGGREGATE FILTER ITEM 602 CONCRETE MASONRY ITEM 603 12" CONDUIT, TYPE C, 706.01 OR 706.02	0.20 CU YD 6 FT

ITEM 209 - LINEAR GRADING

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

PAVEMENT ITEMS

ITEM 253, PAVEMENT REPAIR, MISC .: PARTIAL DEPTH

THIS ITEM OF WORK SHALL BE PERFORMED AFTER THE ITEM 254 PAVEMENT PLANING. THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF THE EXISTING REMAINING ASPHALT CONCRETE ON TOP OF THE CONCRETE PAVEMENT, IN AREAS OF EXISTING ASPHALT CONCRETE PAVEMENT FAILURE. THIS PAY ITEM IS NOT TO BE USED WHERE ITEM 255 CONCRETE REPAIRS WILL BE DONE. THESE REPAIRS ARE ESTIMATED TO BE MOSTLY TRANSVERSE REPAIRS, NOT LONGITUDINAL REPAIRS.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. 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 MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16

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

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN OR ITEM 448 TYPE 2 MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE, ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN 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 1.5" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN OR ITEM 448 TYPE 2 MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 448 TYPE 2 MATERIAL SHALL BE PG64-22 FOR MEDIUM MIX DESIGN PAVEMENTS AND PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS. ALL EXISTING PAVEMENT AREAS PGG4-28 FOR HEAVY MIX DESIGN PAVEMENTS. ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PARTIAL DEPTH PAVEMENT REPAIR. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253 PAVEMENT REPAIR, MISC .: PARTIAL DEPTH

ITEM 301 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN ITEM 302 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN SHALL BE USED FOR ASPHALT CONCRETE REPLACEMENT ABOVE RIGID REPAIRS (MAINLINE AND RAMPS), AND FOR PARTIAL DEPTH REPAIRS. ITEM 302 SHALL BE USED AT THE PAVEMENT REPLACEMENT SECTIONS AT THE BRIDGE APPROACHES.

ON THIS PROJECT ITEM 301 AND 302 COARSE AGGREGATE SHALL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT WILL BE 30%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE ITEM 301 AND 302 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN AND ITEM 302
ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN SHALL BE PLACED AND
COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ALL
EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH ITEM 301 AND
302 SHALL BE CLEANED AND COATED PER COMPACTION SING AN ASPHALT
MATERIAL COMPACTION SING WITH 407 032 AND COMPACTION SHALL BE ACCURED. MATERIAL COMPLYING WITH 407.02. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER.

ALL OF THE ABOVE COSTS SHALL BE INCLUDED IN ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN (CU YD) AND ITEM 302 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN (CU YD).

ITEM SPECIAL, BERM REPAIR, FLEXIBLE

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THIS ITEM OF WORK SHALL BE PERFORMED AFTER THE ITEM 254 PAVEMENT PLANING. THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF THE ASPHALT CONCRETE PAVED SHOULDERS, IN AREAS OF EXISTING ASPHALT CONCRETE PAVEMENT FAILURE. THESE REPAIRS ARE ESTIMATED TO BE MOSTLY LONGITUDINAL REPAIRS, NOT TRANSVERSE REPAIRS. SEE THE PAVEMENT REPAIR QUANTITY SHEET FOR LOCATIONS AND DEPTHS.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. 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 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. AS PER PLAN OR ITEM 448 TYPE REPLACEMENT MATERIAL SHALL BE ITEM 301, AS PER PLAN OR ITEM 448 TYPE 2 MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE, PG64-22 SHALL BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 448 TYPE 2 SHALL BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 0" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301 OR ITEM 448 TYPE 2 MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 448 TYPE 2 MATERIAL SHALL BE PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS. ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER. THE SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM SPECIAL BERM REPAIR, FLEXIBLE.

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE (1.75") ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE (2.75")

THE INTENT OF THE PLANING IS TO MILL THE DEPTH AS SHOWN IN THE PLANS AT THE CENTER OF PAVEMENT. THE PAVEMENT SLOPE SHALL BE 0.016 PREFERRED, AS PER THE TYPICAL SECTIONS (NORMAL SECTIONS).

SPECIAL ATTENTION SHALL BE GIVEN TO SUPER-ELEVATED CURVES. THE SUPER-ELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE INTO 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 FIVE (5) CALENDAR DAYS. THE 5 CALENDAR DAYS SHALL BE CONSIDERED AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 5 DAYS THAT NORMAL TRAFFIC IS RUNNING OVER THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS BER 108 0.7 DAMAGES AS PER 108.07.

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 407, TACK COAT ITEM 407, TACK COAT FOR INTERMEDIATE COURSE

AS PER 407.06 THE APPLICATION RATES SHALL BE 0.10 GAL. PER SO. YD. PRIOR TO THE INTERMEDIATE COURSE AND SHALL BE 0.05 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.

ITEM 442. ASPHALT CONCRETE SURFACE COURSE, 12.5 MM. TYPE A (446)

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W-8-1-36) 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 INTERCHANGES, ETC.

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

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (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 NODES USE 50 GYRATIONS, FOR NODES USE 75 GYRATIONS. MINIMUM TOTAL PG BINDER CONTENT IS 6.0 PERCENT. USE A PG 64-22 BINDER.

USE A PG 64-22 BINDER.
MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE
AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED
FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE
PAVEMENT FRICTION IN SURFACE PAVEMENT.
QUALITY CONTROL: DO NOT PERFORM NMOX IN QUALITY CONTROL TESTING. DO
NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

<u>ITEM 442, ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM.</u> 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 (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.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS: MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. USE A PG 64-22 BINDER. USE A FG 64-22 DIVIDER.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 30 PERCENT.

DO NOT APPLY TABLE 442.02-1 EXCEPT SAND EQUIVALENT OF 45 APPLIES.

APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY. QUALITY CONTROL: DO NOT PERFORM NMax IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

ITEM 617. COMPACTED AGGREGATE, AS PER PLAN

THIS ITEM OF WORK SHALL CONFORM TO ITEM 617 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS BOOK WITH EXCEPTION OF 617.02 (MATERIALS).

THE MATERIAL ON THIS PROJECT SHALL BE ASPHALT CONCRETE GRINDINGS. THE GRINDINGS USED FOR THIS WORK ARE TO BE PLACED AND COMPACTED AS DESCRIBED IN 617.05 WITH SPECIAL CARE TO CREATE PROPER COMPACTION. DESCRIBED IN BIT.US WITH SPECIAL CARE TO CREATE FRUTER CONTRACTION. 100% OF THIS MATERIAL SHALL PASS A 1.5 INCH SIEVE. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO MEET THE TYPICAL SECTIONS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS REQUIRED TO APPLY THE ITEM 408 PRIME COAT WITHIN 5 CALENDAR DAYS OF PLACING THE COMPACTED AGGREGATE, AS PER PLAN.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER CU. YD. OF ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

PAVEMENT CORING INFORMATION

BELOW IS PAVEMENT CORING INFORMATION TO HELP DETERMINE THE EXISTING PAVEMENT COMPOSITION.

ROUTE	COUNTY	SLM	LANE	ASPHALT (IN.)	CONCRETE (IN.)	DIRECTION
30	010	15.00	T 1-1			
	RIC	15.00	Inside	8.00	8.75	EB
30	RIC	15.00	Outside	7.25	8.75	EΒ
30	RIC	15.00	Outside Shoulder	10.00		EΒ
30	RIC	16.75	Inside	6.50	9.50	EB
30	RIC	16.75	Outside	7.50	8.50	ΕB
30	RIC	16.75	Outside Shoulder	10.00		EΒ
30	RIC	18.50	Inside	7.50	8.25	EΒ
30	RIC	18.50	Outside	7.00	8.25	EΒ
30	RIC	18.50	Outside Shoulder	12.50		EΒ
30	RIC	13.50	Outside Shoulder	12.50		WB
30	RIC	13.50	Inside Shoulder	12.50		WB
30	RIC	15.00	Inside	10.00	9.00	WB
30	RIC	15.00	Outside	9.00	9.00	₩B
30	RIC	15.00	Outside Shoulder	12.50		WB
30	RIC	16.75	Inside	10.00	9.00	WB
30	RIC	16,75	Outside	9.00	9.00	WB
30	RIC	16,75	Inside Shoulder	8.00		WB
30	RIC	18.50	Inside	7.25	9.00	WB
30	RIC	18.50	Outside	6.50	8.75	WB
30	RIC	18.50	Outside Shoulder	8.00		WB

ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS, AS PER PLAN

ITEM 255 SHALL BE PERFORMED AFTER THE ITEM 254 PAVEMENT PLANING. ASPHALT CONCRETE.

IN ORDER TO COMPLY WITH REQUIREMENTS OF STANDARD DRAWING MT 101.90 FOR USING DRUMS, THE CONTRACTOR MAY BE REQUIRED TO REPLACE THE 9 INCH CONCRETE PAVEMENT WITH POSSIBLY MORE THAN 9 INCHES OF CONCRETE SO THE TOP OF THE CONCRETE REPAIR IS NOT MORE THAN 5 INCHES FROM THE PLANED SURFACE BY THE END OF THE WORK SHIFT.

TRAFFIC CONTROL

ITEM SPECIAL - AIR SPEED ZONE MARKING

THIS ITEM IS TO MEET CMS 644. THE SPEED MEASUREMENT MARKINGS ARE TO BE WHITE AND 24 INCHES WIDE (MEASURED IN THE DIRECTION OF TRAVEL) AND FOUR (4) FEET IN LENGTH.

PLACE THE MARKINGS AT 0.25 MILE INTERVALS OVER A ONE (1) MILE LENGTH OF ROADWAY ENTIRELY ON THE PAVED SHOULDERS. THE ZONE IS TO START AT RIC-30-15.00 EB AND END AT RIC-30-16.00 EB. THE SECOND AIR SPEED ZONE MARKING IS TO START AT RIC-30-18.07 WB AND END AT RIC-30-19.07

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE MARKINGS LAID OUT BY A STATE OF OHIO REGISTERED SURVEYOR. A RECORD IS TO BE KEPT AND ONE ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO THE DISTRICT 3 TRAFFIC ENGINEER AND ONE COPY FOR THE DISTRICT CONSTRUCTION ENGINEER.

MEASUREMENT AND PAYMENT: THE FIVE (5) MARKINGS PLACED ON EACH OF THE TIVE (5) MARKINGS PLACED ON EACH OF THE TIVE (5) MARKINGS PLACED ON EACH OF THE TWO SHOULDERS IN EACH I MILE OF ROADWAY PER EACH DIRECTION OF TRAVEL EQUAL ONE ZONE. ONE ZONE WILL BE MEASURED AS I EACH. PAYMENT FOR ALL MATERIALS, LABOR, EQUIPMENT AND SURVEYING FOR ACCEPTED WORK IS TO BE INCLUDED PER EACH IN ITEM SPECIAL, AIR SPEED ZONE MARKING. ZONE MARKING.

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BUTT JOINTS

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

CONSTRUCTION "BUMP" (WB-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, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

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

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS)

100 CU YD

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

CHRISTMAS NEW YEARS MEMORIAL DAY

FOURTH OF JULY LABOR DAY **THANKSGIVING**

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

DAY OF THE WEEK

TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY MONDAYTUESDAY 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 LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

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

US 42 WORK ZONE MARKING SIGN: (W8-HI3-36) NO EDGE LINE = 4 EACH US 30 WORK ZONE MARKING SIGN: (W8-HI3-36) NO EDGE LINE = 31 EACH

ITEM 614, MAINTAINING TRAFFIC

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, WITH THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL NOT HAVE A WORK ZONE SETUP LONGER THAN 3 MILES

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMUTCO. AND SUCH FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL MAINTENANCE OF TRAFFIC SIGNS ARE PAID UNDER ITEM 614 MAINTAINING

ITEM 614, MAINTAINING TRAFFIC: GENERAL

AS A MINIMUM, ONE II' LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON US30. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, PLAN DETAILS, STANDARD DRAWINGS, AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 -MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED ON THIS PLAN.

THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY: THE CONTRACTOR SHALL SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PAVEMENT THROUGHOUT THE PROJECT UNDER ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC DURING THE PERIOD FROM THE START OF WORK TO THE COMPLETION OF ALL

ESTIMATED QUANTITIES - MAINTENANCE OF TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC.

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 50 CU YD

WORK OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. AMBER LIGHT SHALL BE VISIBLE TO ALL DIRECTIONS OF TRAFFIC A MINIMUM OF 0.25 MILE.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE CONTRACTOR IS PERMITTED TO WORK AT NIGHT. FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. TO INSURE THE ADEQUACY OF THE FLOODLIGHTING PLACEMENT THE HIGHWAY. TO INSURE THE AUEUUALT OF THE FLOUDLIGHTING FLACEMENT PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

EOUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY A MIN. OF 6 FT BEHIND GUARDRAIL OR 30 FT FROM THE NEAREST EDGE OF PAVEMENT WHEN VARIOUS OPERATIONS ARE SCHEDULED TO CONTINUE THE NEXT WORKDAY. ON WEEKENDS OR AT OTHER TIMES OF SUSPENSION OF WORK, THE EOUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE OF THE ROADWAY RIGHT-OF-OUATE BARRICADES AND SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA.

ALTERNATE METHODS

IF THE CONTRACTOR SO ELECTS, THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE

MAINTENANCE OF TRAFFIC SCHEME

THE CONTRACTOR SHALL SCHEDULE THEIR WORK AND METHODS IN ORDER TO MEET THE INTENT OF THE PLANS. THE PAVEMENT SURFACES TO BE USED BY THE TRAVELING PUBLIC SHALL BE ABLE TO DRAIN FREELY. ALL COSTS TO MAINTAIN THE ROADWAY AS PER THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE PLANS SHALL BE INCLUDED IN ITEM 614 LUMP SUM MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

614 WORK ZONE INCREASED PENALTIES SIGN

RII-H50 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE SIGNS SHALL BE DUAL MOUNTED ON THE MAINLINE US30 AND PLACED PER STANDARD CONSTRUCTION DRAWING MT-95.50.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED. BUT GOOD. CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REFERENCED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT BID PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 31 EACH

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 20 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

<u>ITEM 614. REPLACEME</u>NT SIGN

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL

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614 WORK ZONE SPEED LIMIT SIGN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, COVER DURING SUSPENSION OF WORK, AND SUBSEQUENTLY REMOVE WORK ZONE SPEED LIMIT SIGNS (50 MPH) AND SUPPORTS (R2-1) WITHIN THE WORK LIMITS OF THIS PROJECT ON US30.

THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS WITHIN THE REDUCED SPEED ZONE. THESE SIGNS SHALL BE RESTORED DURING SUSPENSION OR TERMINATION OF THE REDUCED SPEED LIMIT. THE EXPENSE OF COVERING OR REMOVAL AND RESTORATION OF EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS SHALL BE INCLUDED IN THE PAY ITEM FOR THE WORK ZONE SPEED LIMIT

THE WORK ZONE SPEED LIMIT SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

SPEED REDUCTION SIGNS (W3-5) SHALL BE ERECTED IN ADVANCE OF THE SPEED REDUCTION AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-95.50. A SIGN TO INDICATE THE RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE ERECTED AT THE END OF ANY REDUCED SPEED ZONE, TYPICALLY AT THE POINT WHERE ROADWAY AND SHOULDER WIDTHS RETURN TO NORMAL. ON DIVIDED HIGHWAYS WHERE THE SPEED LIMIT VARIES BY VEHICLE TYPE, THE R2-I (SPEED LIMIT) SIGN AND THE R2-H20 (TRUCK SPEED LIMIT) SIGNS SHALL BE MOUNTED SIDE-BY-SIDE ON SEPARATE SUPPORTS. THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD CONDITION PROVIDED THE MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

THE WORK ZONE SPEED LIMIT SIGNS SHALL BE DUAL MOUNTED ON THE MAINLINE, BE MOUNTED ON TWO (2) ITEM 630 GROUND MOUNTED SUPPORTS NO. 3 POSTS, AND PLACED PER STANDARD CONSTRUCTION DRAWING MT-95.50.

WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGNS AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION WITHIN THE PROJECT DUE TO CHANGES IN THE SPEED ZONE DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, WILL BE MADE AT THE CONTRACT UNIT BID PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVING OF THE SIGNS AND SUPPORTS. SPEED LIMIT SIGNIF FOR THE POINT OF RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE PAID FOR AS WORK ZONE SPEED LIMIT SIGNS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

WORK ZONE SPEED LIMIT SIGN 614 SPEED ZONE AHEAD SYMBOL SIGN 65 EACH 8 EACH

CONSTRUCTION EQUIPMENT MEDIAN CROSSING

CONSTRUCTION EQUIPMENT SHALL CROSS THE MEDIAN ONLY AT THE EXISTING INTERSECTIONS AND U-TURN CROSSOVERS AND AT OTHER ADDITIONAL LOCATIONS APPROVED BY THE ENGINEER. A MAXIMUM OF TWO (2) ADDITIONAL EQUIPMENT CROSSINGS MAY BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE, AT HIS EXPENSE, FOR THE RESTORATION OF THE ADDITIONAL EQUIPMENT CROSSINGS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING PRIOR TO HIS WORK OPERATIONS.

ITEM 614. WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL FMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

- AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).
- 2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703- 235-0528.
- 3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-
- 4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS. PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTS'S CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7) THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WIS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION (WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE) FROM ANY OF THE APPROVED

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

- 1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES
- ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.
- 3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.
- 4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.
- 5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WIS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEO'S WHILE THEY ARE
- COORDINATE MEETINGS WITH ODOT PERSONNEL, LEO'S AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC
- 7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.
- 8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.
- 9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:
- A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW). B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.

- C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.
 D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.
 E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.
 F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.
- 10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8)
 AFTER EACH INSPECTION AS REQUIRED IN # 9 AND SUBMIT IT TO THE ENGINEER THE
 FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC
 CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE
 PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL
 BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH
 SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN
 BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION
 FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.
- 11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ITEM 614. WORKSITE TRAFFIC SUPERVISOR (CONTINUED)

12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL NOT PAY THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR. THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 WORKSITE TRAFFIC SUPERVISOR 6 MONTHS

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

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

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

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

DURING A TRAFFIC SIGNAL INSTALLATION.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

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

STATE HIGHWAY PATROL 2255 SOUTH MAIN ST. MANSFIELD, OH 44907 419 756-2222

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

ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 120 HOURS

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

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

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ITEM 614. PORTABLE CHANGEABLE MESSAGE SIGN. AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, PORTABLE CHANGEABLE MESSAGE SIGNS, ON SITE, FOR THE DURATION OF THE PROJECT FOR US30. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD

THE PCMS LOCATIONS SHALL BE LOCATED IN ADVANCE OF THE BEGINNING AND END OF THE PROJECT TO NOTIFY THE TRAVELLING PUBLIC OF CONSTRUCTION WORK BEING DONE. PCMS IS ALSO NEEDED ON US 30 IN ADVANCE OF THE FOLLOWING RAMP CLOSURES: RAMP A AT KOOGLE RD, RAMP TL AT US 42, RAMP FOLLOWING RAMP CLOSURES: RAMP A AT KOOGLE RD, RAMP TL AT US 42, RAMP UL AT US 42. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF, ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC. 15-INCH MINIMUM SIZE FACING TRAFFIC.

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THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 6 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES.
MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 15 STGN-MONTH

SEQUENCE OF CONSTRUCTION (US 30 MAINLINE PAVEMENT WORK)

CONTRACTOR IS REQUIRED TO PERFORM THE FOLLOWING WORK WHILE THE LANE AND SHOULDER IS CLOSED OFF TO TRAFFIC:

- 1. MILL 1.75" OF THE ASPHALT CONCRETE FOR THE MAINLINE LANE AND SHOULDER.
- 2. PERFORM THE PARTIAL AND FULL DEPTH PAVEMENT REPAIRS ON MAINLINE LANE AND SHOULDER. 3. TACK COAT AND PLACE THE 1.75" SURFACE COURSE.

SEQUENCE OF CONSTRUCTION (STRUCTURES RIC-30-1915L&R)

THE CONTRACTOR SHALL CLOSE THE DRIVING LANE FIRST DURING CONSTRUCTION OF STRUCTURES RIC-30-1915 L&R.

SEQUENCE OF CONSTRUCTION (US 30 RAMPS - PAVEMENT WORK)

THE DEFINITION OF THE RAMP LIMITS ARE FROM THE INTERSECTION WITH THE SIDE ROAD AT THE SIDE ROAD'S EDGE LINE AND DOWN THE RAMP TO THE GORE AREA WHERE THE COMMON PAVEMENT BETWEEN THE RAMP AND THE MAINLINE BEGINS IN THE GRASSY AREA. THE SEQUENCE OF CONSTRUCTION FOLLOWS:

PART WIDTH CONSTRUCTION PHASE: SETUP PART WIDTH CONSTRUCTION OF THE RAMP AND PERFORM THE FOLLOWING

1. MILL 1.75" OF THE ASPHALT CONCRETE FOR THE FULL WIDTH OF THE RAMP. 2. PERFORM THE PARTIAL AND FULL DEPTH PAVEMENT REPAIRS IF APPLICABLE. 3. TACK COAT AND PLACE THE 1.75" SURFACE COURSE.

FULL WIDTH CONSTRUCTION PHASE WHEN LOOP RAMPS ARE CLOSED FOR THE BRIDGE CLOSURE:

THIS WOULD APPLY FOR THE FOLLOWING RAMPS: US42 EB EXIT RAMP TL. US42 WB EXIT RAMP UL, KOOGLE RD EB EXIT RAMP A, KOOGLE RD WB ENTRANCE RAMP

1. MILL 1.75" OF THE ASPHALT CONCRETE FOR THE FULL WIDTH OF THE RAMP. 2. PERFORM THE PARTIAL AND FULL DEPTH PAVEMENT REPAIRS IF APPLICABLE. 3. TACK COAT AND PLACE THE 1.75" SURFACE COURSE.

FULL WIDTH CONSTRUCTION PHASE WHEN RAMPS ARE CLOSED DUE TO GEOMETRICS OF RAMP TO MAINTAIN TRAFFIC: THIS WOULD APPLY FOR THE FOLLOWING RAMPS: REED RD RAMPS B & D: 1. MILL 1.75" OF THE ASPHALT CONCRETE FOR THE FULL WIDTH OF THE RAMP. 2. PERFORM THE PARTIAL DEPTH PAVEMENT REPAIRS. 3. TACK COAT AND PLACE THE 1.75" SURFACE COURSE.

MAINTENANCE OF TRAFFIC DURING BRIDGE AND PAVEMENT WORK

THE 21 DAY DETOURS SETUP IN THIS PLAN ARE TO BE USED WHEN THE DRIVING LANE OF US30 MAINLINE IS CLOSED FOR THE BRIDGE DECK OVERLAY WORK WHICH CAUSES THE ADJOINING RAMPS TO BE CLOSED. THE 21 DAY DETOURS ARE FOR RIC-30-1408 L&R AND RIC-30-1750 L&R. DURING EACH 21 DAY DETOUR, THE CONTRACTOR IS REQUIRED TO PERFORM ALL PAVEMENT WORK ON THE CLOSED RAMP. THIS WOULD APPLY FOR THE FOLLOWING RAMPS;

RAMP C AT KOOGLE RD RAMP A AT KOOGLE RD RAMP TL AT US 42

RAMP UL AT US 42 (RAMP UR WOULD STILL HAVE ACCESS TO BEAL AVE BUT RAMP UL WILL NOT WHEN RAMP UL IS CLOSED)

THE CONTRACTOR SHALL NOT CLOSE RAMP TL OF US 42 AT THE SAME TIME AS REED RD IS BEING PAVED OR REED RD HAS ANY BRIDGE WORK BEING DONE.

WHILE BRIDGE WORK IS BEING PERFORMED AND EITHER THE PASSING LANE OR DRIVING LANE IS CLOSED AT THE BRIDGE, THE CONTRACTOR CAN EXTEND THE WORK ZONE TO COMPLETE THE ADJACENT PAVEMENT WORK TO MINIMIZE THE INCONVENIENCE TO TRAFFIC.

MAINTENANCE OF TRAFFIC FOR PAVEMENT REPLACEMENT AND STRUCTURE WORK AT STRUCTURE RIC-30-1408L&R

MAINTENANCE OF TRAFFIC AT STRUCTURE RIC-30-1408 L&R SHALL FOLLOW STANDARD CONSTRUCTION DRAWING MT95.40 FOR CLOSING ONE LANE OF A DIVIDED HIGHWAY WITH PORTABLE CONCRETE BARRIER, EXCEPT DRUM TAPER WILL NEED TO BE ADJUSTED IN DRIVING LANE SO TRAFFIC CAN STILL EXIT US 30 ON RAMPS A & B. THE FOLLOWING QUANTITIES WILL BE CARRIED TO THE GENERAL SUMMARY FOR THIS WORK:

RIC-30-1408L&R: ITEM 614 WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I ITEM 614 WORK ZONE DOTTED LINE, CLASS I, 642 PAINT ITEM 614 BARRIER REFLECTOR, TYPE B 1.19 MI 3200 FT 56 EACH ITEM 614 OBJECT MARKER, ONE-WAY 56 EACH ITEM 614 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) ITEM 622 PORTABLE CONCRETE BARRIER, 32* ITEM 622 PORTABLE CONCRETE BARRIER, 32* BRIDGE MOUNTED 4 EACH 1400 F1 1200 FT

MAINTENANCE OF TRAFFIC FOR STRUCTURE WORK AT STRUCTURE RIC-30-1750L&R

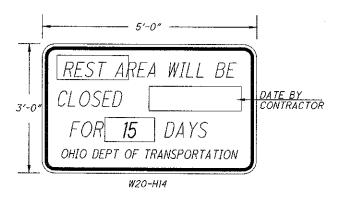
MAINTENANCE OF TRAFFIC AT STRUCTURE RIC-30-1750L&R SHALL FOLLOW STANDARD CONSTRUCTION DRAWING MT95.40 FOR CLOSING ONE LANE OF A DIVIDED HIGHWAY WITH PORTABLE CONCRETE BARRIER. THE FOLLOWING QUANTITIES WILL BE CARRIED TO THE GENERAL SUMMARY FOR THIS WORK:

RIC-30-17501 &R: ITEM 614 WORK ZONE EDGE LINE, CLASS I, 642 PAINT
ITEM 614 WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I
ITEM 614 WORK ZONE DOTTED LINE, CLASS I, 642 PAINT 0.30 MI 0.91 MI 3200 FT 32 EACH 28 EACH ITEM 614 BARRIER REFLECTOR, TYPE B ITEM 614 OBJECT MARKER, ONE-WAY ITEM 614 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) ITEM 622 PORTABLE CONCRETE BARRIER, 32" 4 EACH 1440 FT

NOTICE OF CLOSURE SIGNS

BOTH REST AREAS WILL BE CLOSED DURING THE CONCRETE PAVEMENT REPLACEMENT WORK IN THE TRUCK PARKING AREA.

THE BELOW SIGN SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED REST AREA CLOSURE, 500 FT IN ADVANCE OF THE REST AREA. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ONLY ONE REST AREA MAY BE CLOSED AT ANY ONE TIME. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGNS INCLUDING SUPPORTS



REST AREA CLOSED SIGNING

FOR SIGNING WHEN THE REST AREA WILL BE CLOSED, THE CONTRACTOR IS TO REFER TO STANDARD CONSTRUCTION DRAWING MT-98.29, EXIT RAMP CLOSURE. ALL SIGNING, BARRELS, BARRICADES, PORTABLE CONCRETE BARRIER (IF USED), AND WORK ZONE EDGE LINE SHALL BE INCLUDED WITH THE LUMP SUM UNIT BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614. BARRIER REFLECTORS AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET.

ITEM 615. PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B. AS PER PLAN

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

THE PAVEMENT SHALL REMAIN IN PLACE.

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

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ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

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 PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: QSCZCVR-T4

DRAWING NAME:

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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:

QUADGUARD SYSTEM CONCRETE PAD.

CZ, QG

REVISION DATE:

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

DRAWING NUMBER: DRAWING NAME:

35-40-16

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-**4**0-18

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:

79352GN001

QUADGUARD SYSTEM PCMB ANCHOR **ASSEMBLY**

REVISION DATE:

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

2. THE TRACE (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: DRAWING NAME:

SS455

TRACC TRANSITION TO W-BEAM MEDIAN

DRAWING NUMBER:

DRAWING NAME:

REVISION DATE:

THE MANUFACTURER.

ODOT APPROVAL DATE: 10/16/04

BO40239

4/21/04

UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED

ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND

NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR

SHALL SUPPLY APPROPRIATE TRANSITIONS. PAYMENT FOR THE

SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS

AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL

RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE

AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY

APPLICATION, FLUSH MOUNT BACKSTOP

(TYPICAL FOR PARALLEL 60 MPH UNIT)

BARRIER PLAN, ELEVATION & SECTIONS

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

DRAWING NUMBER: 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:

FLUSH MOUNT BACKSTOP

UNIVERSAL TAU-II FOUNDATION.

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

DRAWING NUMBER:

A040105

DRAWING NAME:

UNIVERSAL TAU-II FOUNDATION. PCB BACKSTOP (REFERENCED ON A04020)

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

QU ASI RC

MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THE U.S. 42 RAMP UL WILL BE DETOURED AS SHOWN. THE U.S. 42 RAMP WILL BE DETOURED AS SHOWN. THE U.S. 42 RAMP WILL BE DETOURED FOR A MAXIMUM OF 21 CONSECUTIVE CALENDAR DAYS. THE MAXIMUM NUMBER OF DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE MAXIMUM NUMBER OF DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07. DETOUR SIGNING WILL BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

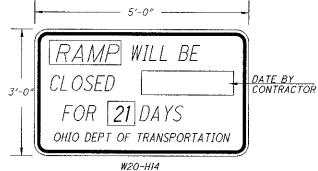
TOWNSHIP TRUSTEES (TWP. ROADS ONLY)
RICHLAND COUNTY ENGINEERS OFFICE
LOCAL FIRE DEPARTMENT(S)
LOCAL SCHOOL DISTRICT(S)
COUNTY SHERIFF
CITY OF MANSFIELD

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE U.S. 30 RAMP UL, SHOWN ON THE DETOUR MAP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.

NOTICE OF CLOSURE SIGN FOR RAMP CLOSURE:

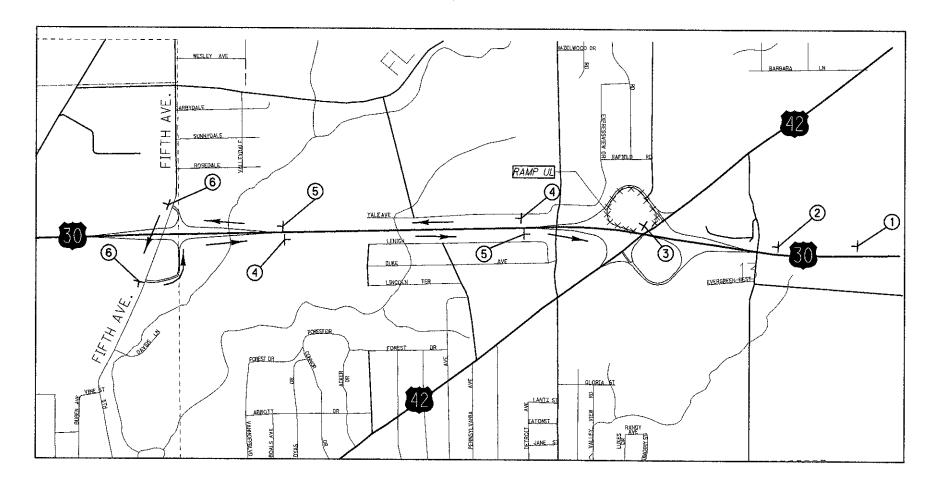


DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING

LUMP



RAMP CLOSURE @ U.S. 30 RAMP UL ON-RAMP TO U.S. 42 SOUTHBOUND

MAP LEGEND

XXXX - RAMP CLOSURE LOCATION

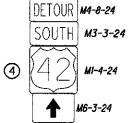
- OFFICIAL SIGNED DETOUR

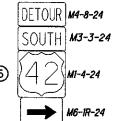
SIGN LEGEND

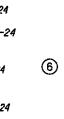


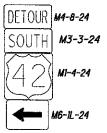






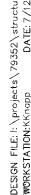












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THE U.S. 42 RAMP TL AND RIC-30-1640 (REED ROAD) SHALL NOT BE UNDER CONSTRUCTION AT THE SAME TIME.

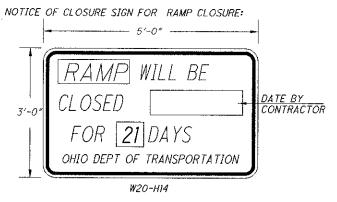
THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

TOWNSHIP TRUSTEES (TWP. ROADS ONLY) RICHLAND COUNTY ENGINEERS OFFICE LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

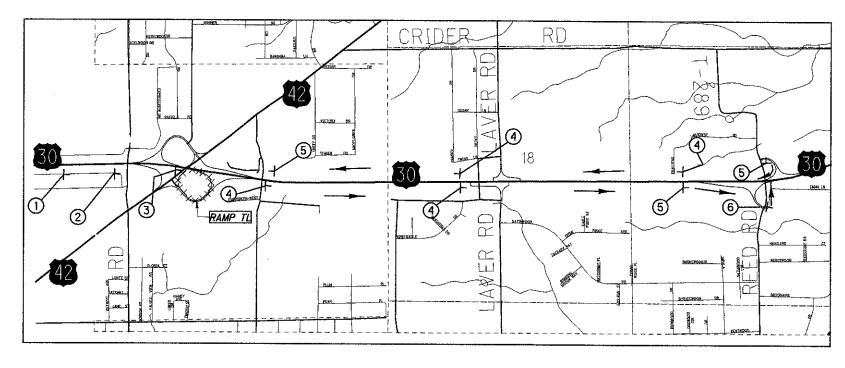
THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE U.S 30 RAMP TL, SHOWN ON THE DETOUR MAP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTEFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORKSHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.



DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING



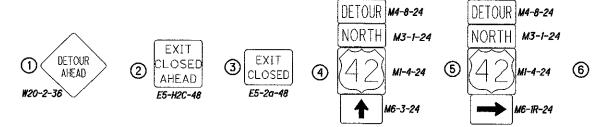
RAMP CLOSURE @ U.S. 30 RAMP TL ON-RAMP TO U.S. 42 NORTHBOUND

MAP LEGEND

XXXX - RAMP CLOSURE LOCATION

- - OFFICIAL SIGNED DETOUR

SIGN LEGEND



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THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

TOWNSHIP TRUSTEES (TWP. ROADS ONLY) RICHLAND COUNTY ENGINEERS OFFICE LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF CITY OF MANSFIELD

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE REED ROAD RAMP B, SHOWN ON THE DETOUR MAP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.

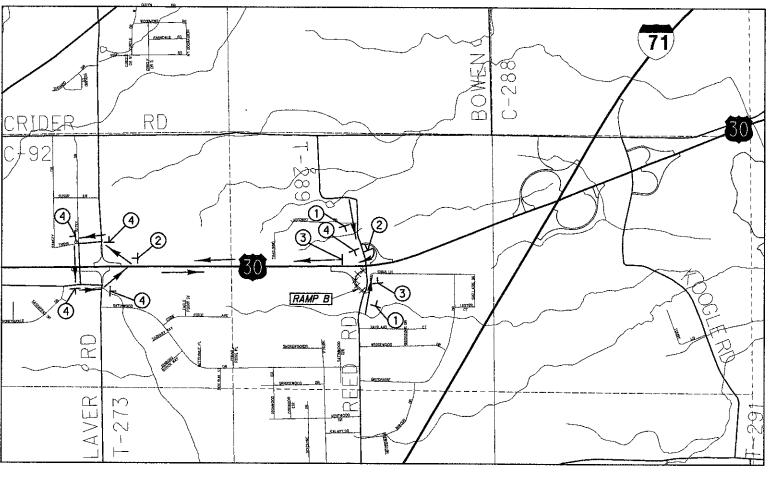
NOTICE OF CLOSURE SIGN FOR RAMP CLOSURE: 5'-0" ----RAMP DATE BY CONTRACTOR 2 DAYS OHIO DEPT OF TRANSPORTATION

DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

W20-H14

ITEM 614, DETOUR SIGNING



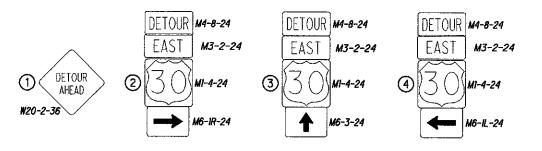
RAMP CLOSURE @ REED ROAD RAMP B ON-RAMP TO U.S. 30 EASTBOUND

MAP LEGEND

XXXX - RAMP CLOSURE LOCATION

- - OFFICIAL SIGNED DETOUR

SIGN LEGEND



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TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THE REED ROAD RAMP D WILL BE DETOURED AS SHOWN DURING PAVEMENT OPERATIONS. THE REED ROAD RAMP WILL BE DETOURED FOR A MAXIMUM OF 2 CONSECUTIVE CALENDAR DAYS. THE MAXIMUM NUMBER OF DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE MAXIMUM NUMBER OF DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07. DETOUR SIGNING WILL BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

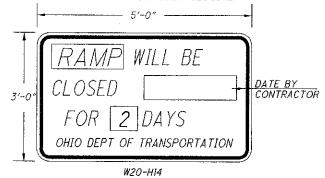
TOWNSHIP TRUSTEES (TWP. ROADS ONLY)
RICHLAND COUNTY ENGINEERS OFFICE
LOCAL FIRE DEPARTMENT(S)
LOCAL SCHOOL DISTRICT(S)
COUNTY SHERIFF
CITY OF MANSFIELD

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE REED ROAD RAMP D, SHOWN ON THE DETOUR MAP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.

NOTICE OF CLOSURE SIGN FOR RAMP CLOSURE:

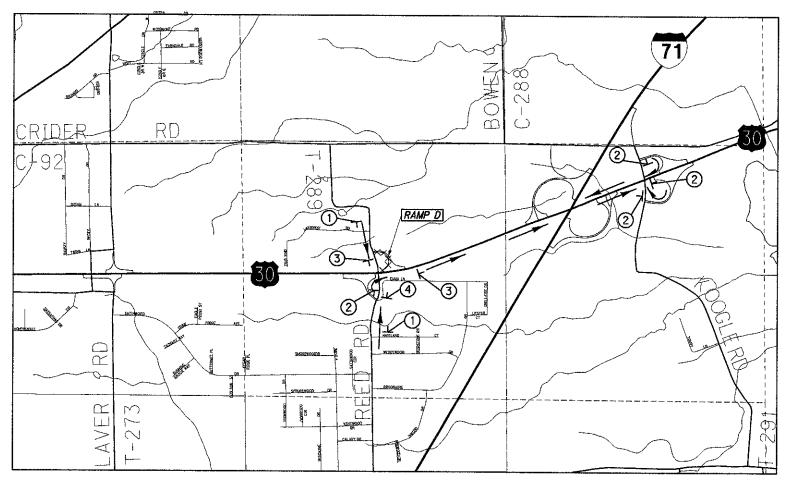


DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING

LUMP



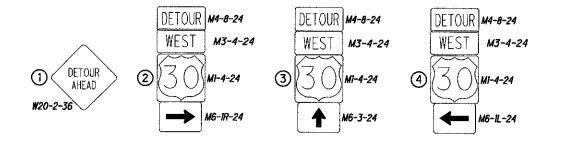
RAMP CLOSURE @ REED ROAD RAMP D ON-RAMP TO U.S. 30 WESTBOUND

MAP LEGEND

XXXX - RAMP CLOSURE LOCATION

- - OFFICIAL SIGNED DETOUR

SIGN LEGEND



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TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON KOOGLE ROAD RAMP C, WILL BE DETOURED AS SHOWN. THE KOOGLE ROAD RAMP WILL BE DETOURED FOR A MAXIMUM OF 21 CONSECUTIVE CALENDAR DAYS. THE MAXIMUM NUMBER OF DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE MAXIMUM NUMBER OF DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07. DETOUR SIGNING WILL BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

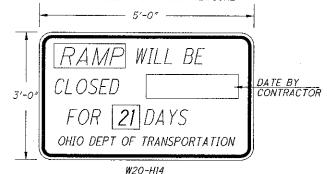
TOWNSHIP TRUSTEES (TWP. ROADS ONLY) RICHLAND COUNTY ENGINEERS OFFICE LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

THIS SIGN SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE KOOGLE ROAD RAMP, SHOWN ON THE DETOUR MAP. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.

NOTICE OF CLOSURE SIGN FOR RAMP CLOSURE:

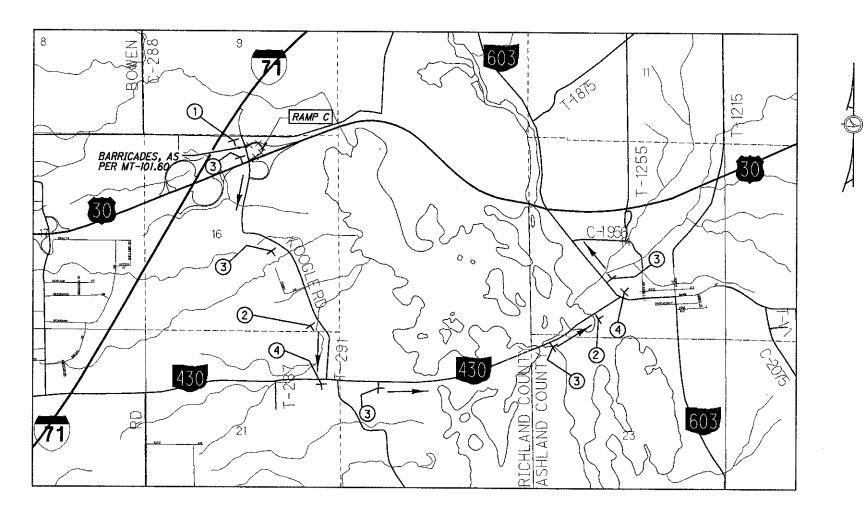


DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING

LUMP



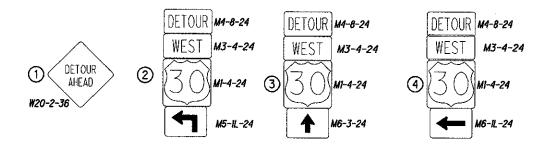
RAMP CLOSURE @ KOOGLE ROAD RAMP C, ON-RAMP TO U.S. 30 WESTBOUND

MAP LEGEND

XXXX - RAMP CLOSURE LOCATION

- OFFICIAL SIGNED DETOUR

SIGN LEGEND



i/GN_Fil.E: I:\projects\79352\structures\RAMPDETOUR RKSTATION:KKnapp DATE:7/12/2010

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TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON KOOGLE ROAD RAMP A, WILL BE DETOURED AS SHOWN. THE KOOGLE ROAD RAMP WILL BE DETOURED FOR A MAXIMUM OF 21 CONSECUTIVE CALENDAR DAYS. THE MAXIMUM NUMBER OF DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE MAXIMUM NUMBER OF DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07. DETOUR SIGNING WILL BE INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE IMPLEMENTED:

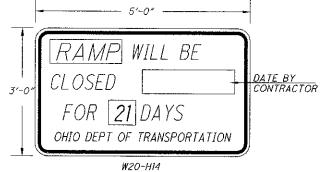
TOWNSHIP TRUSTEES (TWP. ROADS ONLY) RICHLAND COUNTY ENGINEERS OFFICE LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

NOTICE OF CLOSURE SIGNS

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE KOOGLE ROAD RAMP, SHOWN ON THE DETOUR MAP. THE SIGN SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.

NOTICE OF CLOSURE SIGN FOR RAMP CLOSURE:

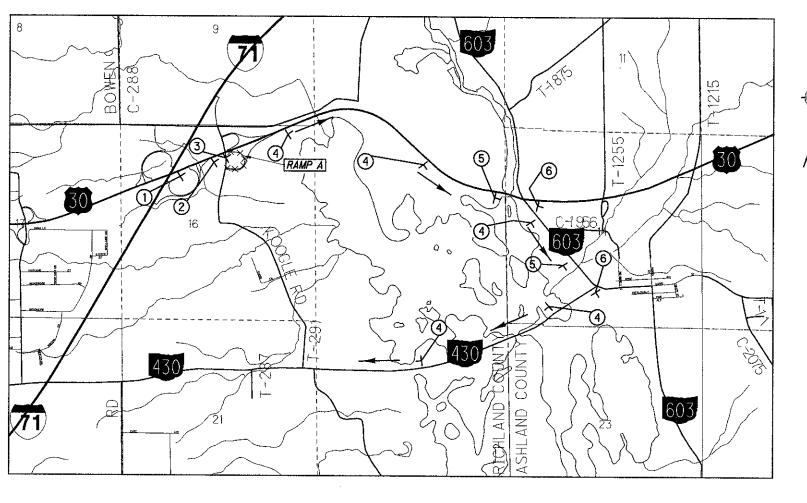


DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING

LUMP



RAMP CLOSURE @ U.S. 30 RAMP A ON-RAMP TO KOOGLE ROAD

MAP LEGEND

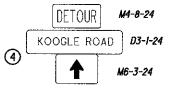
XXXX - RAMP CLOSURE LOCATION - - OFFICIAL SIGNED DETOUR

SIGN LEGEND













DESIGN FILE: L:\pr WORKSTATION:KKn

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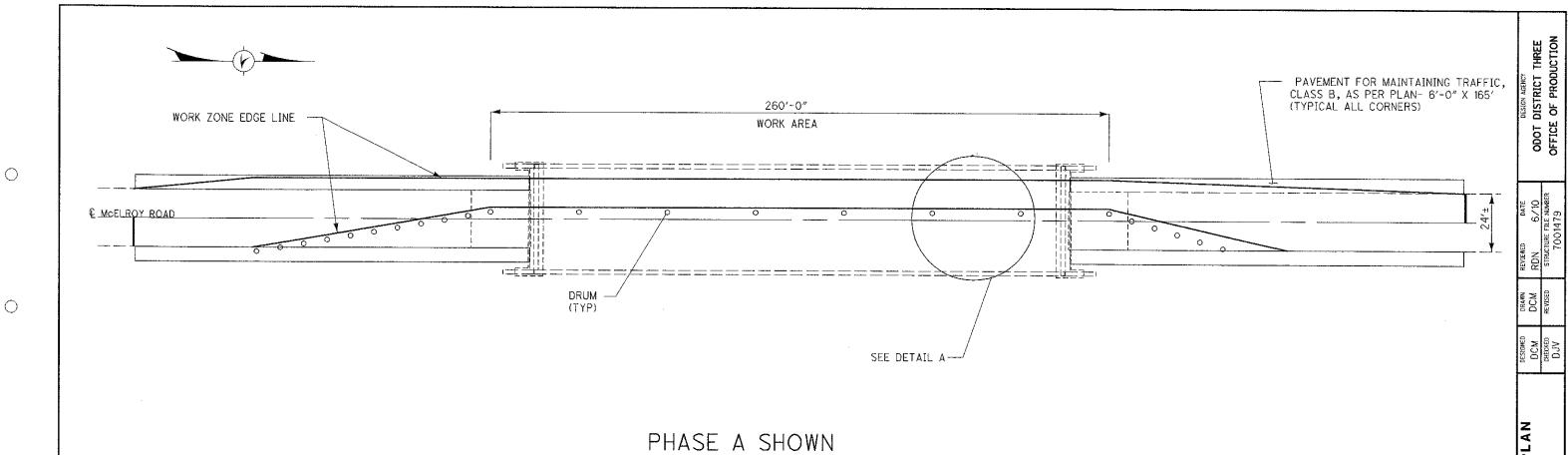
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PHASE B SIMILAR

SIGNAL TIMING

A TWO PHASE CONTROLLER WITH CABINET CAPABLE OF BEING SET WITH THE FOLLOWING SPLITS SHALL BE FURNISHED

CYCLE LENGTH: 80 SECONDS

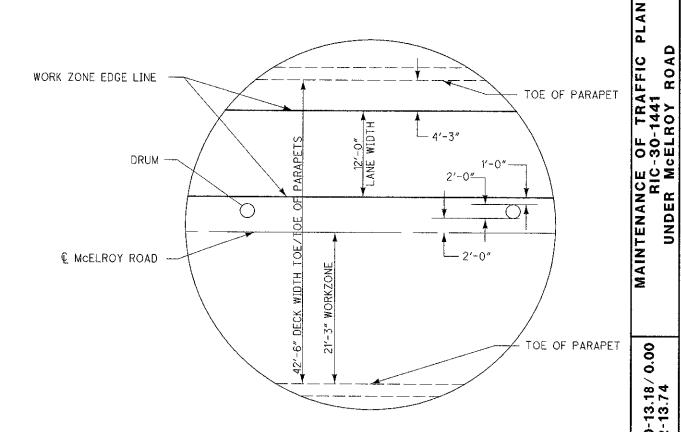
GREEN AMBER RED

PHASE A 20 5 15 PHASE B 20 5 15

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

ITEM	QUANTITY	UNIT	DESCRIPTION		
614	12	EACH	BARRIER REFLECTOR, TYPE A2		
614	12	EACH	BARRIER REFLECTOR, TYPE B2		
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I		
614	.38	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I		
614	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I		
615	LUMP		ROADS FOR MAINTAINING TRAFFIC		
615	440	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN		

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET



DETAIL A

NOTES:

- 1) THE EXISTING BRIDGE RAILING IS NOT SHOWN IN THE PLAN VIEW.
- 2) FOR ADDITIONAL DETAILS, SEE SCDS MT-96.11, MT-96.20, MT-96.26 AND ALSO SUPPLEMENTAL SPECIFICATIONS 961.
- 3) PLACE STEEL PLATES OVER BACKWALL AND APPROACH SLAB REPAIR AREAS PRIOR TO CONCRETE CURING

GN FILE: I: \projects\79352\structures\MO KSTATION:KKnapp DATE: 7/12/2010

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RIC/ASD-30-13.18/0.00 RIC-42-13.74

PHASE A SHOWN PHASE B SIMILAR

SIGNAL TIMING

A TWO PHASE CONTROLLER WITH CABINET CAPABLE OF BEING SET WITH THE FOLLOWING SPLITS SHALL BE FURNISHED

CYCLE LENGTH: 70 SECONDS

AMBER RED PHASE A 15

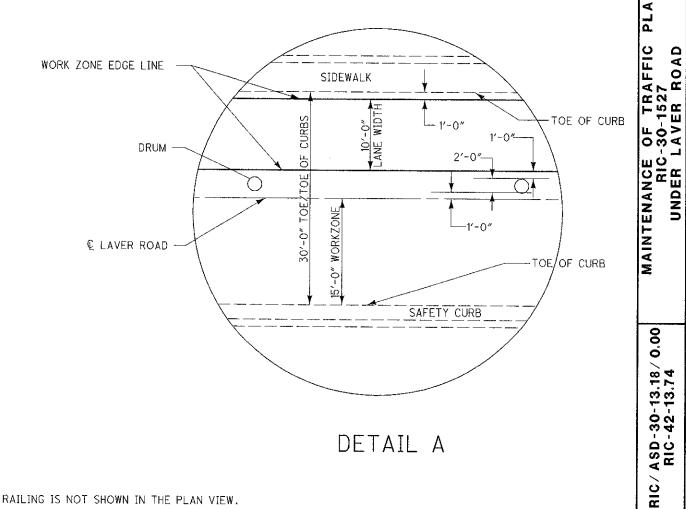
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PHASE B

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

ITEM	QUANTITY	UNIT	DESCRIPTION		
614	12	EACH	BARRIER REFLECTOR, TYPE A2		
614	16	EACH	BARRIER REFLECTOR, TYPE B2		
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I		
614	.44	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I		
614	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I		
615	LUMP		ROADS FOR MAINTAINING TRAFFIC		
615	56	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN		

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET



DETAIL A

- 1) THE EXISTING BRIDGE RAILING IS NOT SHOWN IN THE PLAN VIEW.
- 2) FOR ADDITIONAL DETAILS, SEE SCDS MT-96.11, MT-96.20, MT-96.26 AND ALSO SUPPLEMENTAL SPECIFICATIONS 961.
- 3) PLACE STEEL PLATES OVER BACKWALL AND APPROACH SLAB REPAIR AREAS PRIOR TO CONCRETE CURING

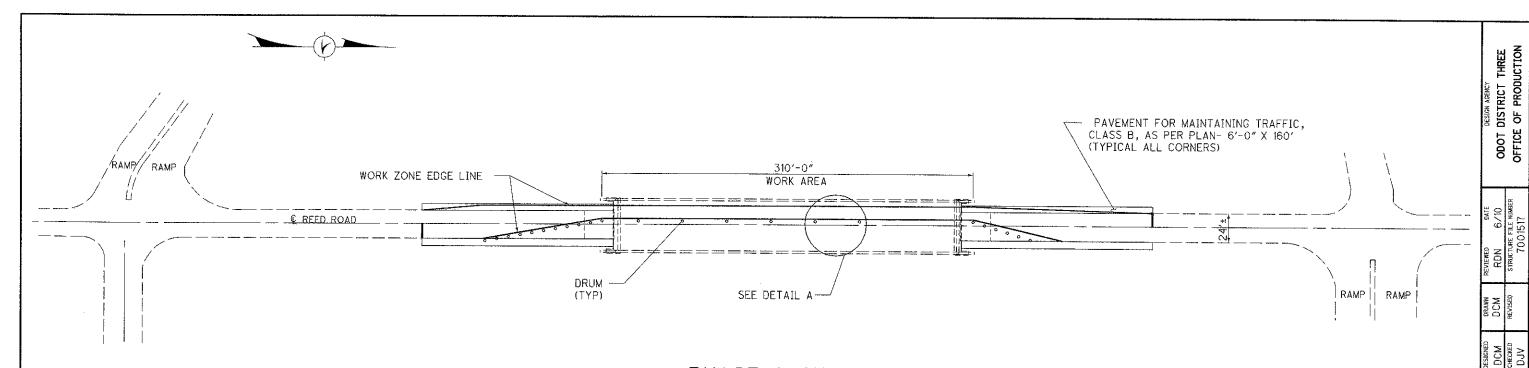
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26 116

ODOT DISTRICT THREE
OFFICE OF PRODUCTION



PHASE A SHOWN PHASE B SIMILAR

SIGNAL TIMING

A TWO PHASE CONTROLLER WITH CABINET CAPABLE OF BEING SET WITH THE FOLLOWING SPLITS SHALL BE FURNISHED

CYCLE LENGTH: 70 SECONDS

 GREEN
 AMBER
 RED

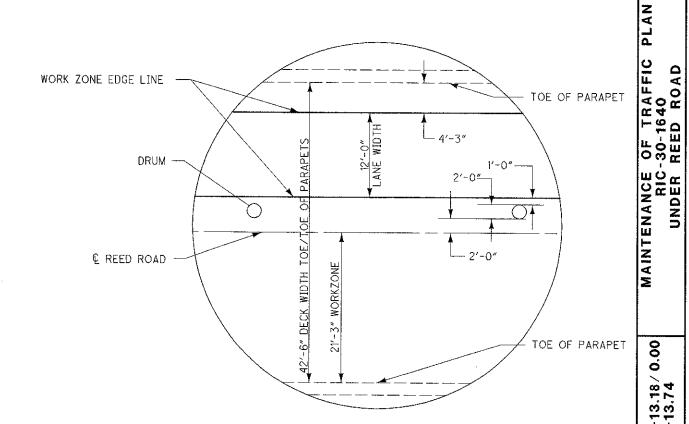
 PHASE A
 15
 5
 15

 PHASE B
 15
 5
 15

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

ITEM	QUANTITY	UNIT	DESCRIPTION
614	12	EACH	BARRIER REFLECTOR, TYPE A2
614	16	EACH	BARRIER REFLECTOR, TYPE B2
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I
614	.42	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I
614	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I
615	LUMP		ROADS FOR MAINTAINING TRAFFIC
615	428	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
615	428	SQ YD	

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET



DETAIL A

NOTES:

- 1) THE EXISTING BRIDGE RAILING IS NOT SHOWN IN THE PLAN VIEW.
- 2) FOR ADDITIONAL DETAILS, SEE SCDS MT-96.11, MT-96.20, MT-96.26 AND ALSO SUPPLEMENTAL SPECIFICATIONS 961.
- 3) PLACE STEEL PLATES OVER BACKWALL AND APPROACH SLAB REPAIR AREAS PRIOR TO CONCRETE CURING

N FILE:1:\projects\79352\structures\MOT.dg STATION:KKnapp

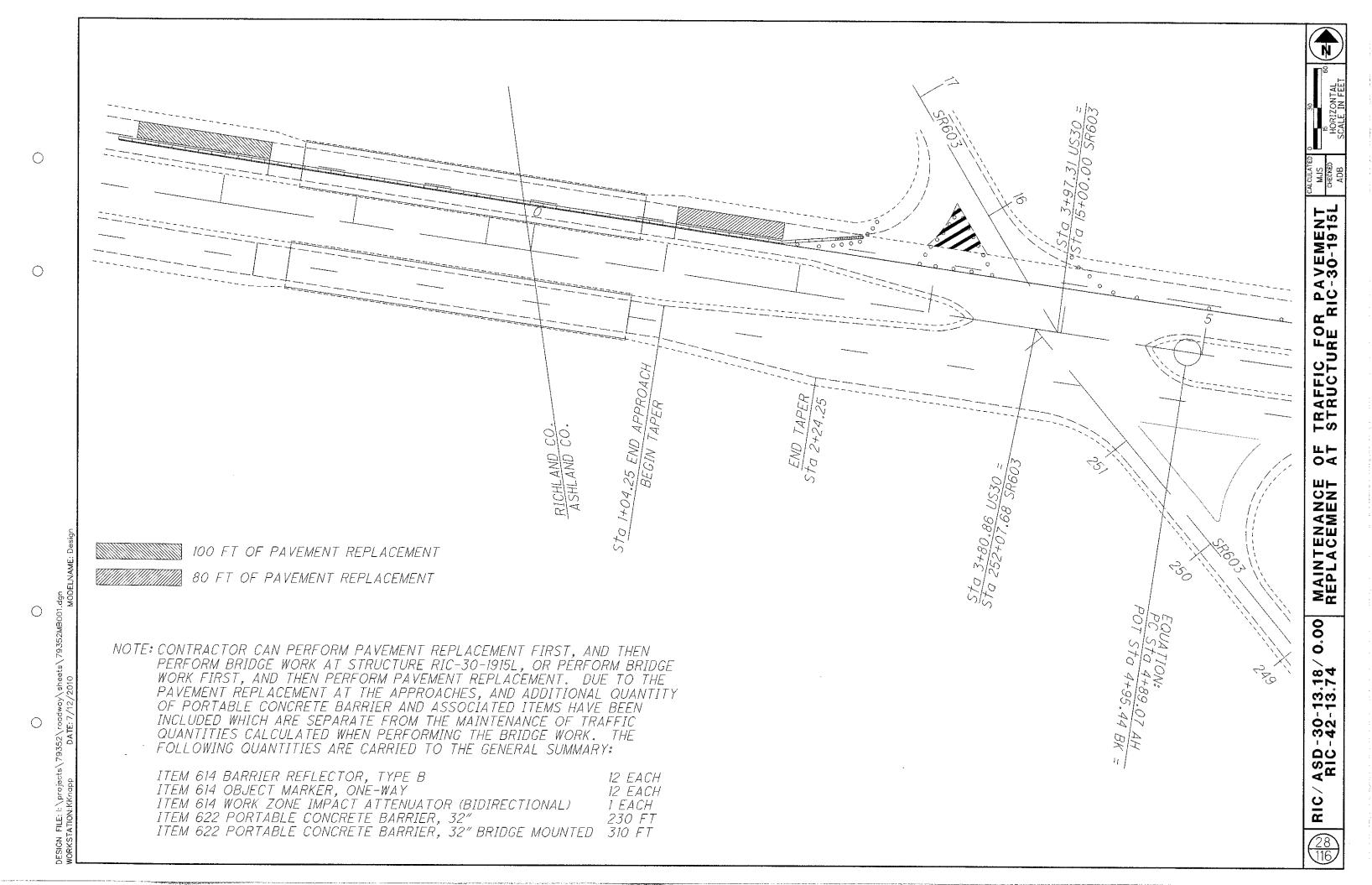
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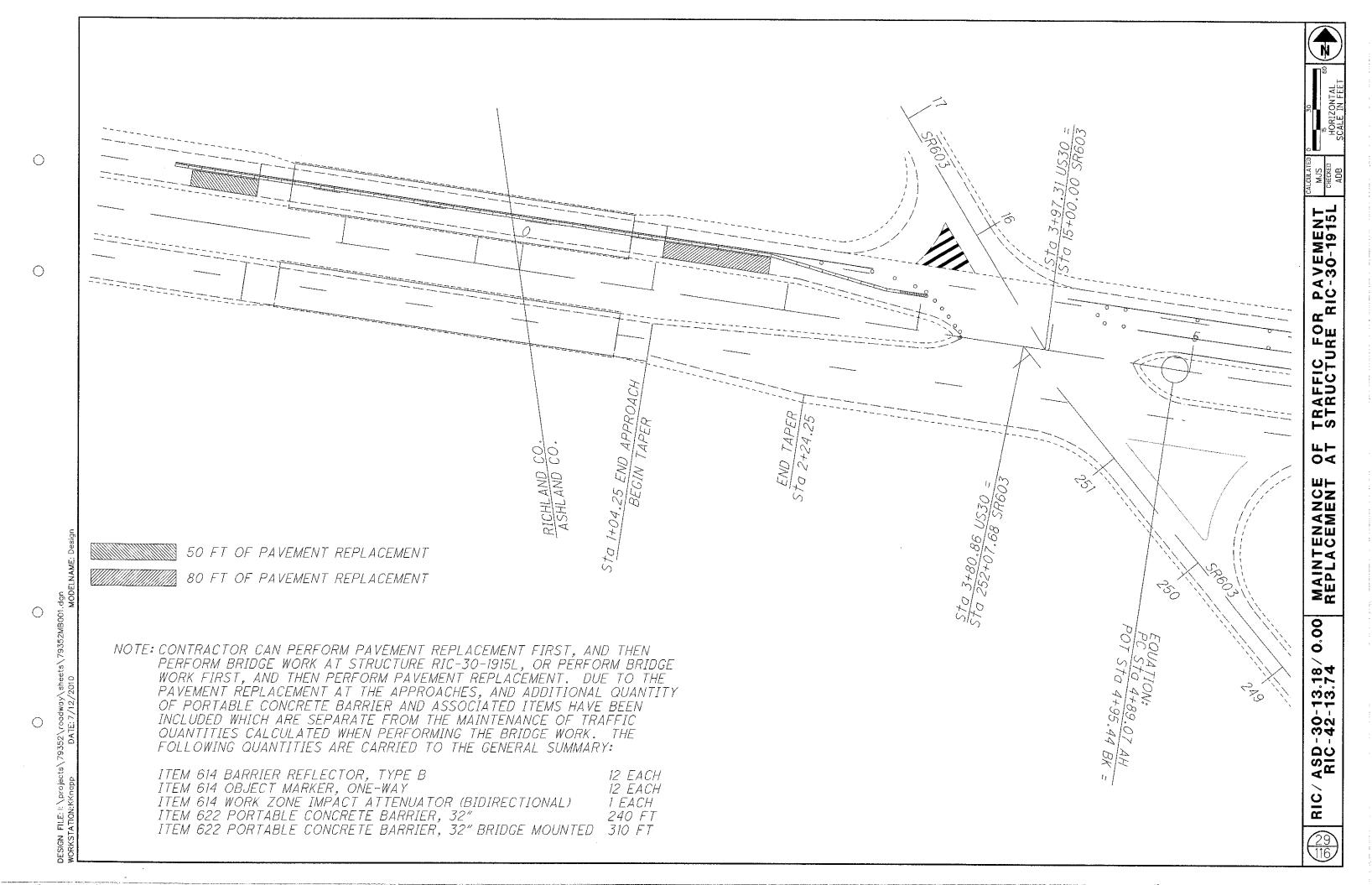
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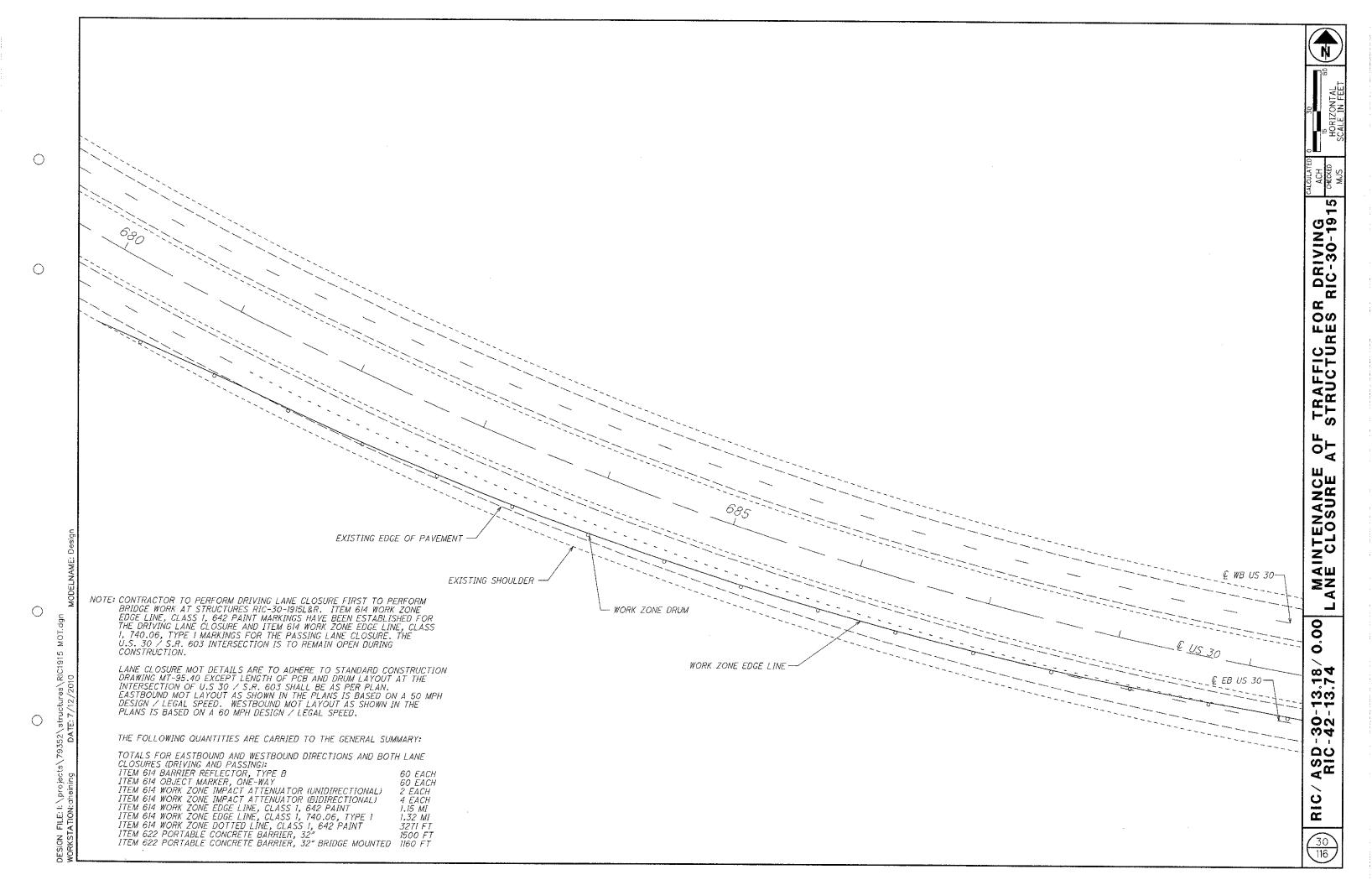
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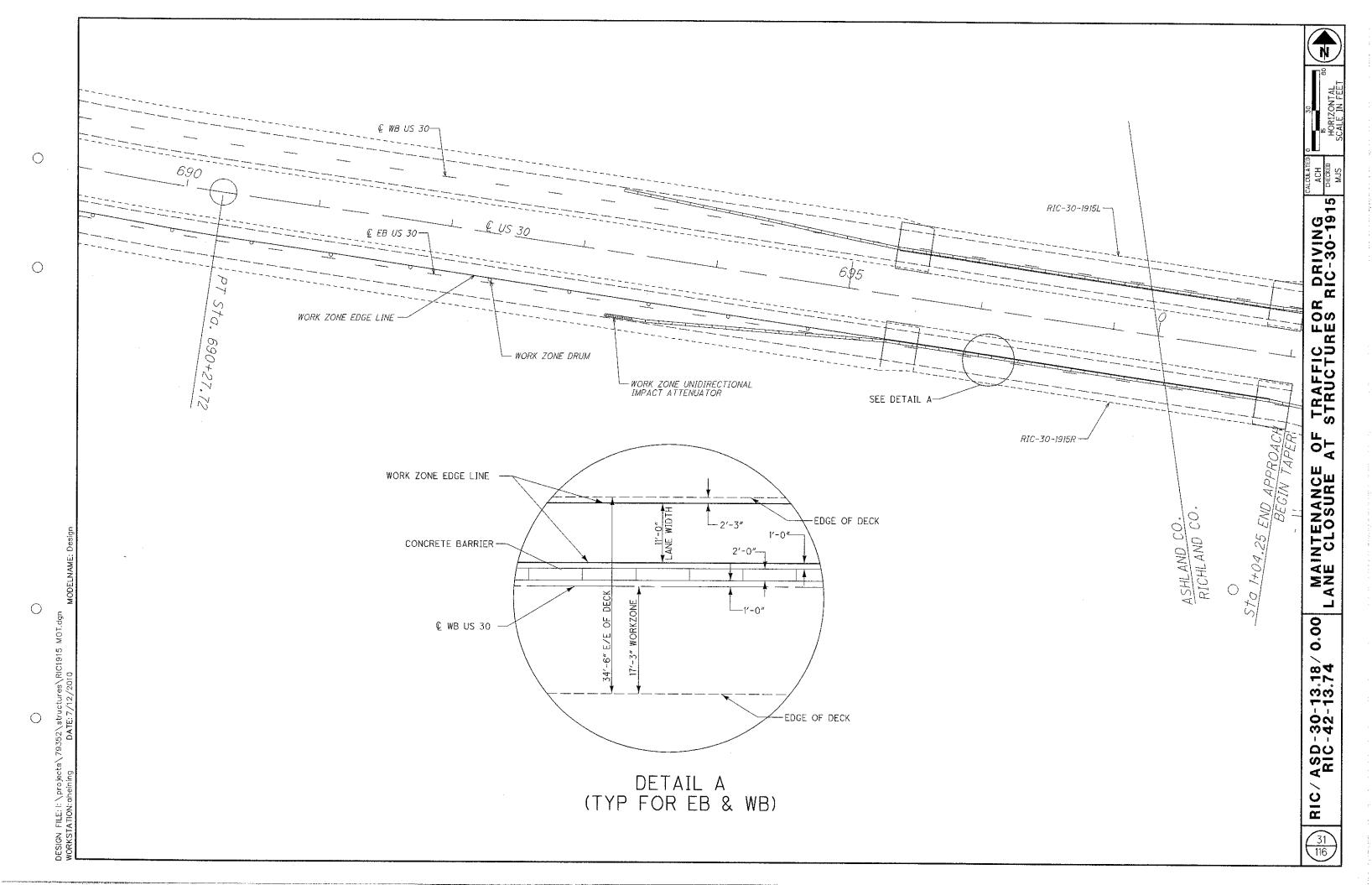
RIC / ASD - 30 - 13.18 / 0.00 RIC - 42 - 13.74

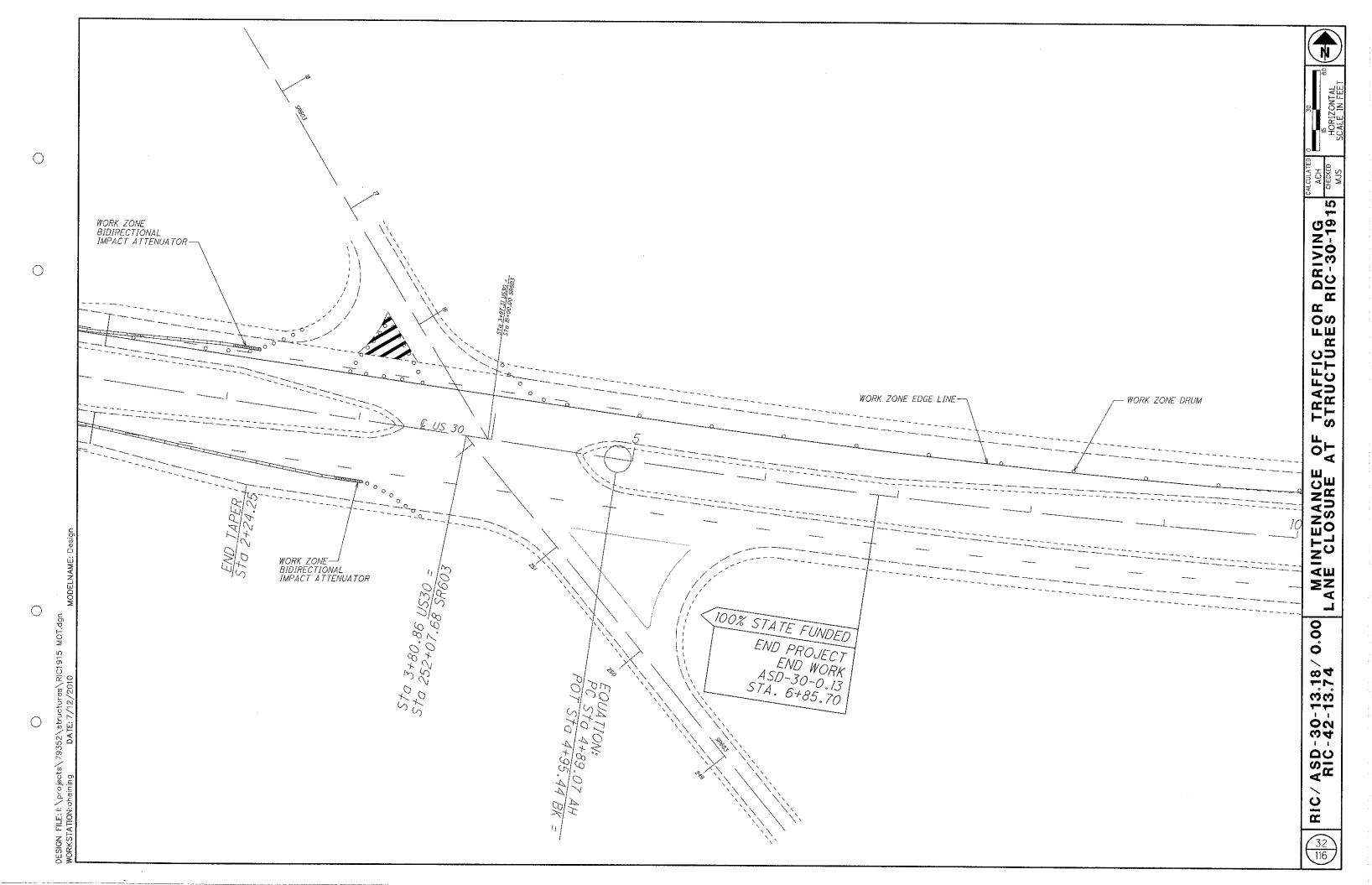
(27) (116)

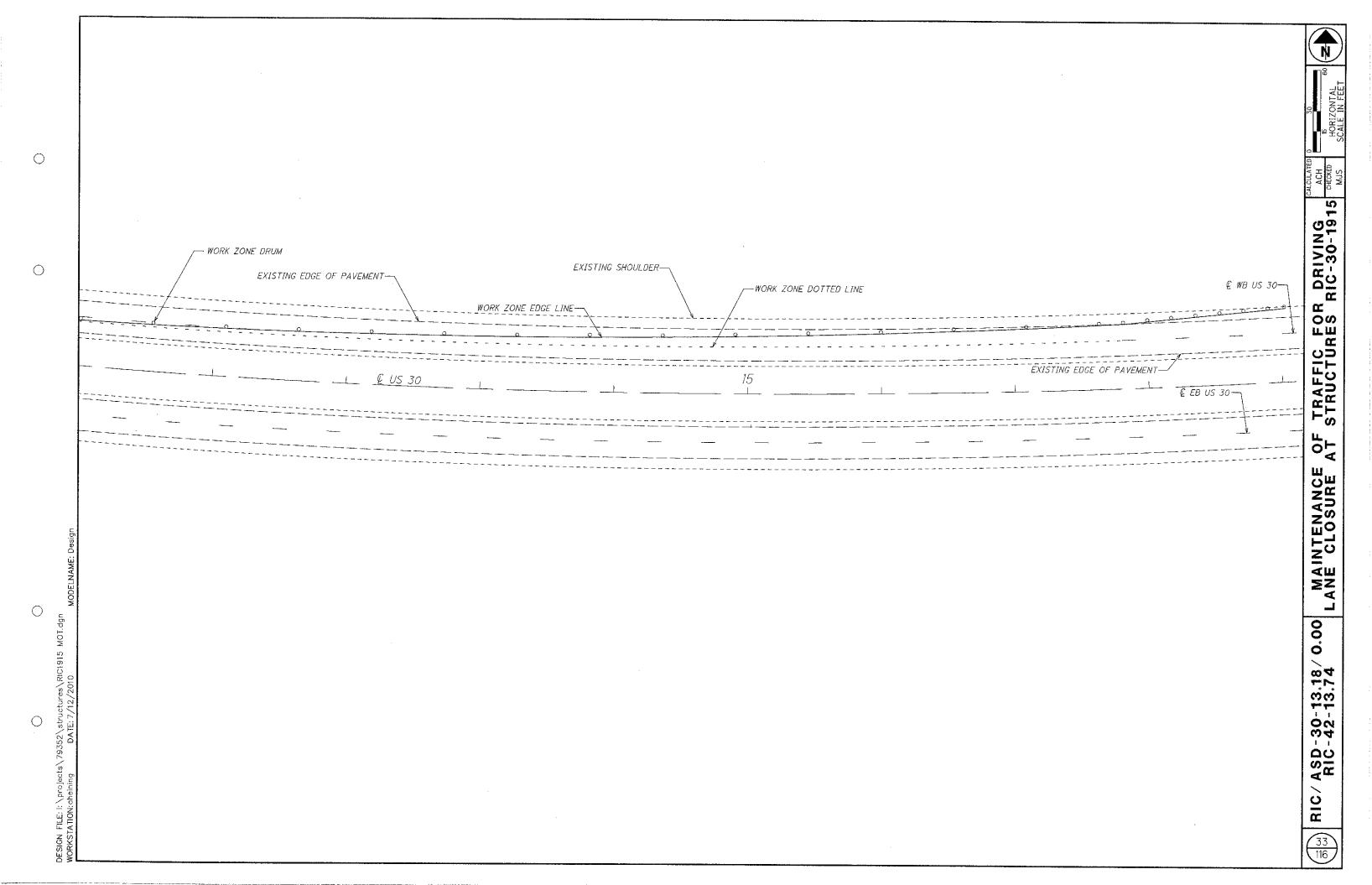


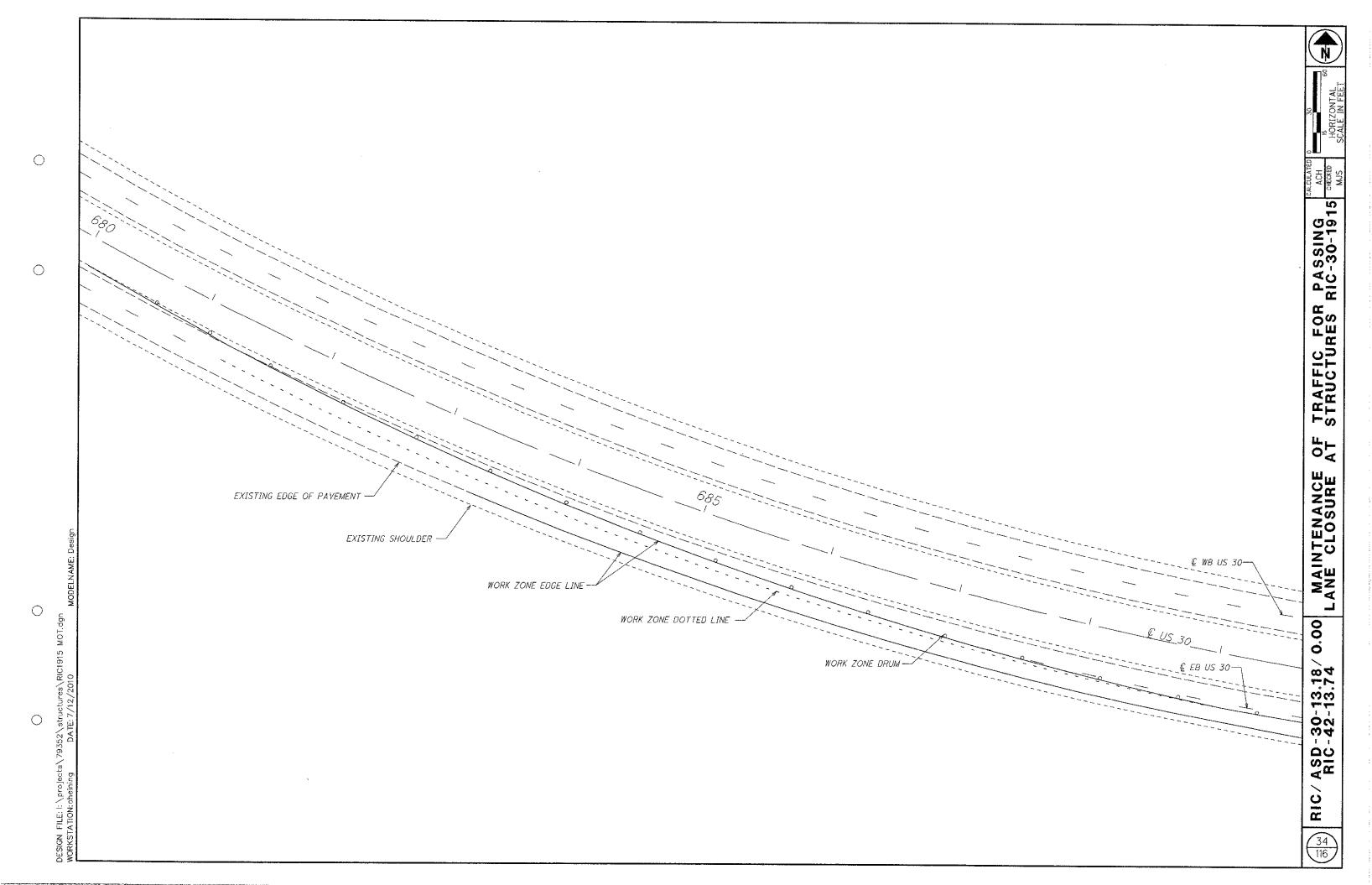


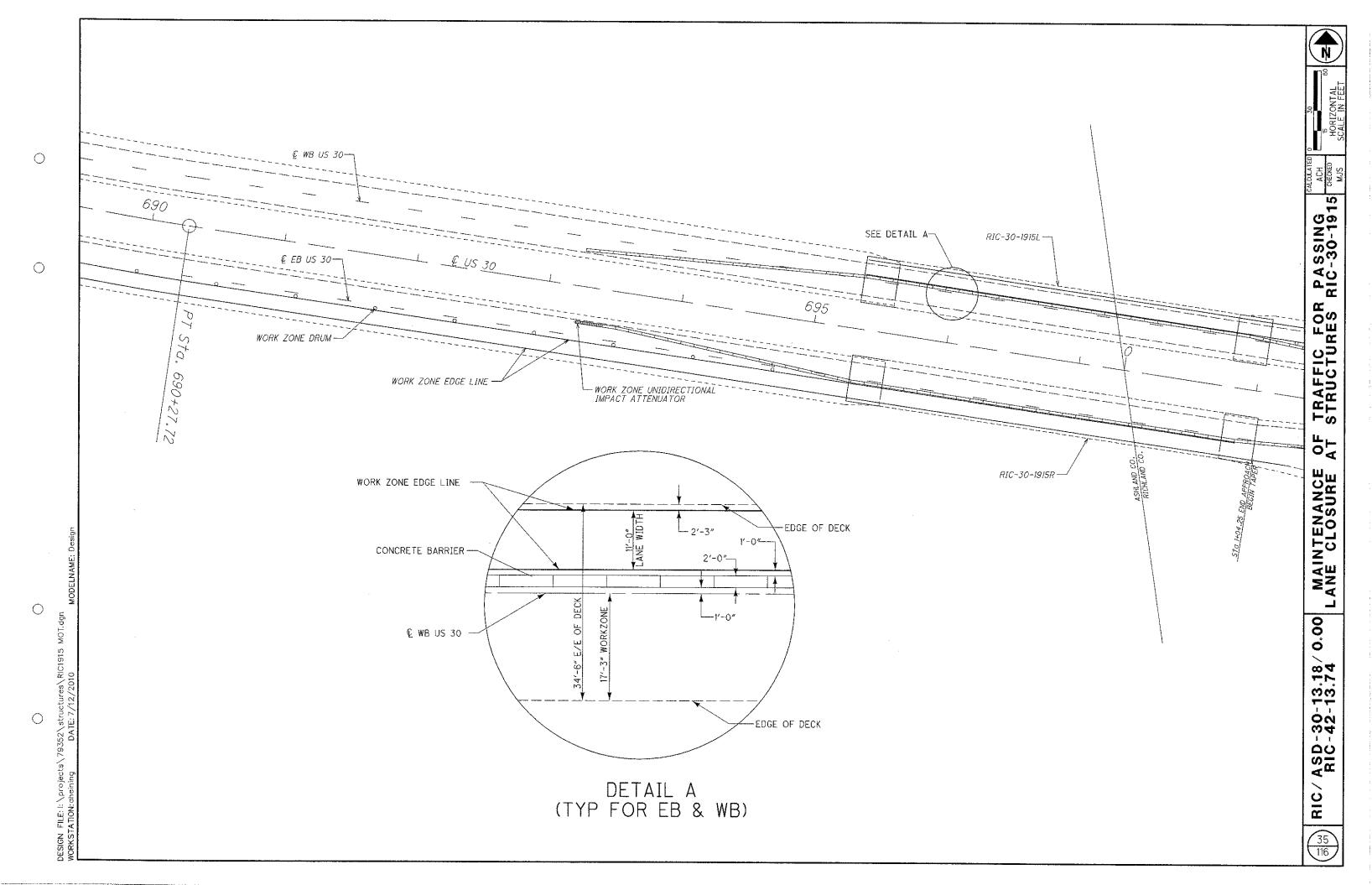


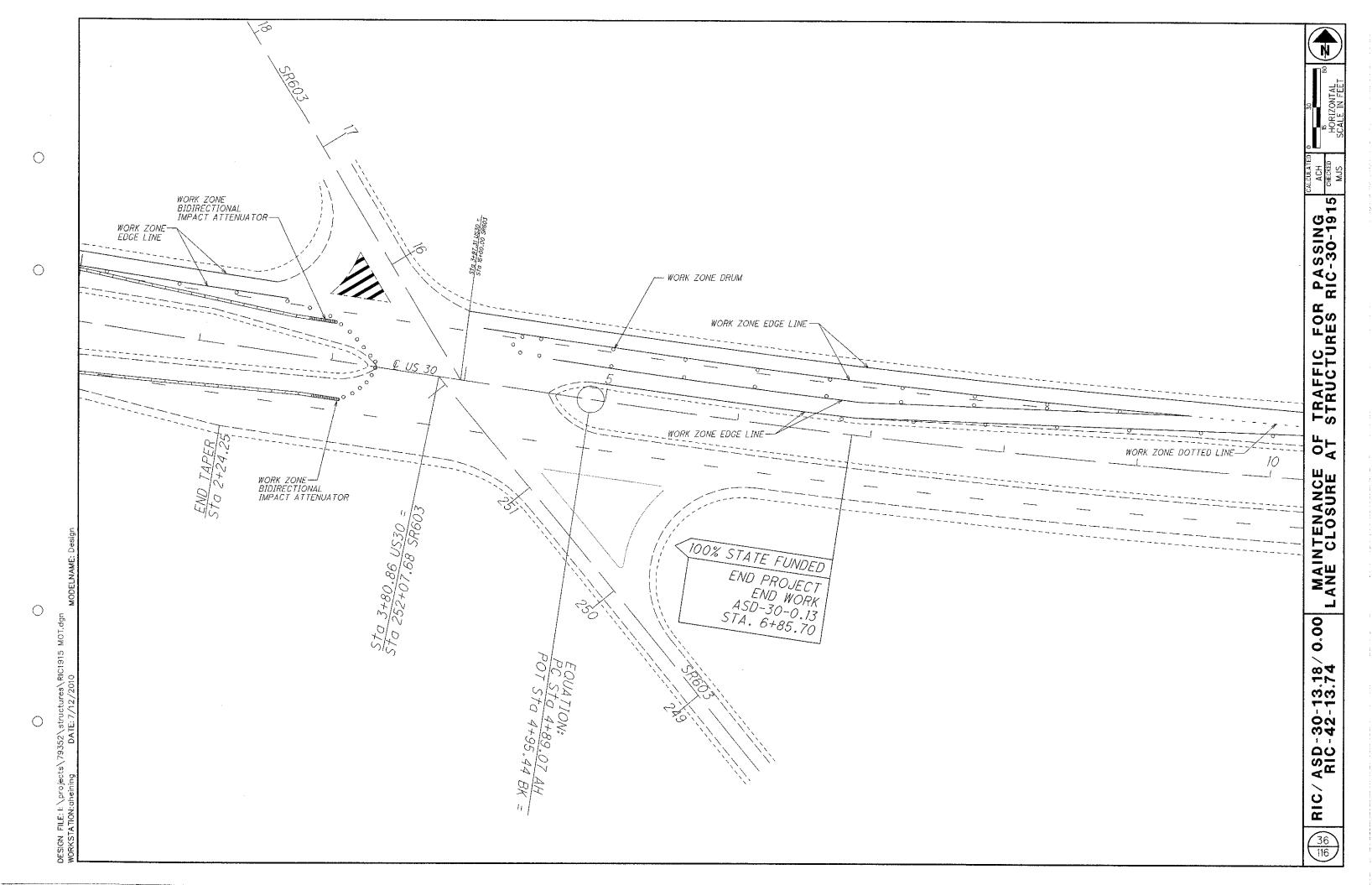


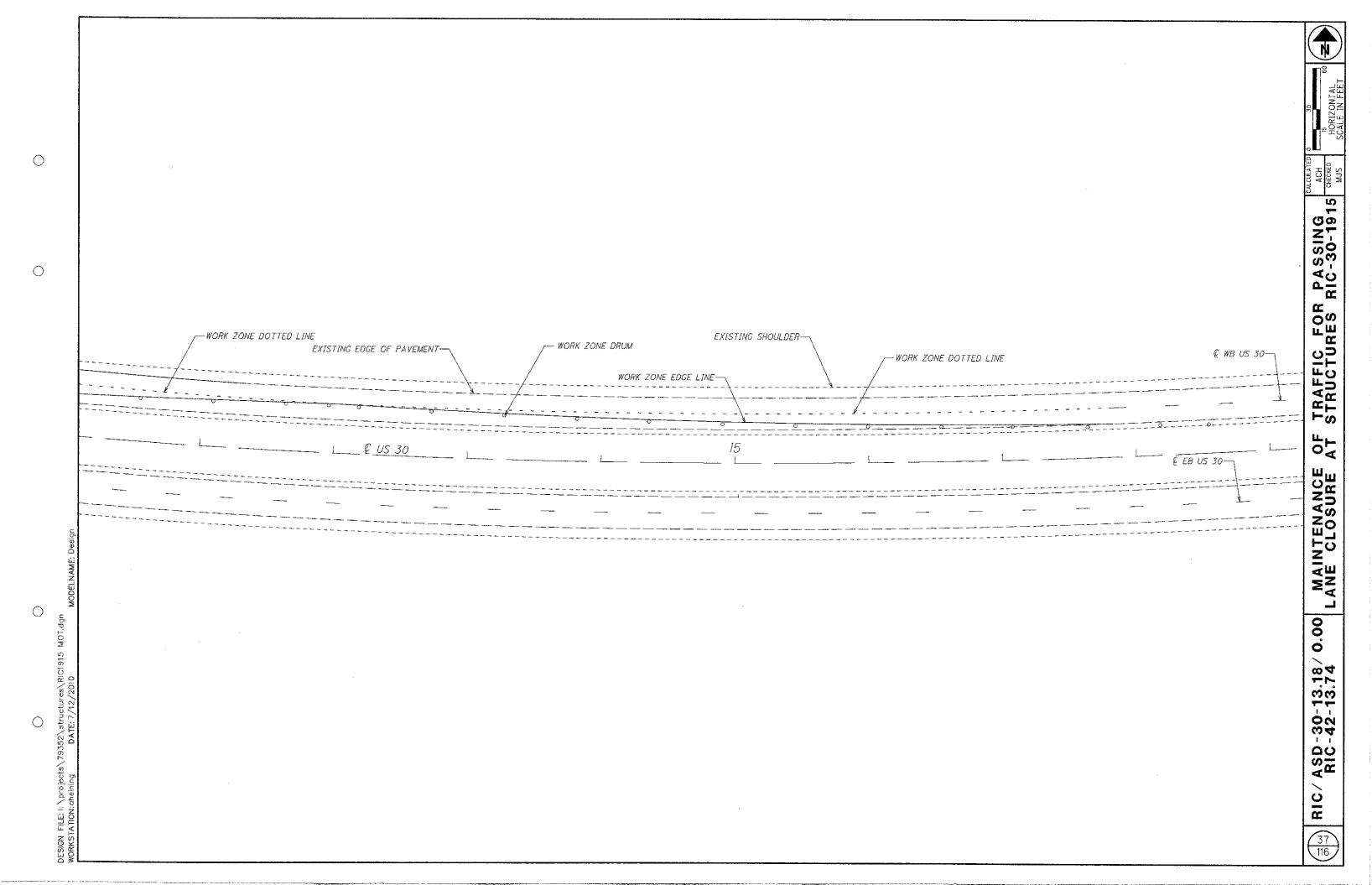












					 							ITEM	ITEM	TOTAL	UNIT		REF.	,—1
1	42	43	44	45	46	47	49	50	55	56		I I E IVI	EXT.	TOTAL	UNII	DESCRIPTION	SHEET	
93					-	<u> </u>	1,932	1,877				202	23000	4,902	80 VD	ROADWAY ITEMS PAVEMENT REMOVED		
							799	864	 			202	32000	1,663		CURB REMOVED	ļ	
					<u> </u>				1,587.50	975		202	38000	2,562.50		GUARDRAIL REMOVED		
									5,812.50	12,887.50		202	38200	18,700.00		GUARDRAIL REMOVED FOR REUSE	 	
									3	1		202	42000	4		ANCHOR ASSEMBLY REMOVED, TYPE A		-
																	 	_
							<u> </u>		2	1		202	42010	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E		
								<u> </u>	7	10		202	42040	17	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T		_
_									7	6		202	42620	13	EACH	ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE E-98		_
									5	9		202	42806	14	EACH	ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE T	T	_
					ļ					8		202	47000	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	 	-
					ļ	<u> </u>	ļ		ļ									-
							<u> </u>		11	5		202	47200	16	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED FOR REUSE		_
-					<u> </u>		322	312	ļ <u>. </u>			203	10000	816	CU YD	EXCAVATION		
3			<u></u>	ļ	- 	- 			28	121		203	20001	149		EMBANKMENT, AS PER PLAN	51	_
2						-			110 =0			204	10000	1,093	SQ YD	SUBGRADE COMPACTION		_
\dashv					·	 	ļ	<u> </u>	112.72	207.71		209	60201	320.43	STA	LINEAR GRADING, AS PER PLAN	53	_
-	29.06	1.19				 							22722					
	23.00	1.19							1,337.50	872.50		209	60500	30.25		LINEAR GRADING		_
\dashv					 	 			75	125.0		606 606	13000	2,210.00		GUARDRAIL, TYPE 5		
+						 	 		·	10,250.00		606	13050	200		GUARDRAIL, TYPE 5A		_
1	***			-	+		 			2,637.50		606	16500 16501	15,081.25 3,500.00		GUARDRAIL REBUILT, TYPE 5		_
+				<u> </u>		·			002.50	2,007.00		000	10001	3,500.00	FT	GUARDRAIL REBUILT, TYPE 5, AS PER PLAN	51	_
					—	 			93.75			606	16700	93.75	FT	GUARDRAIL REBUILT, TYPE 5A		_
7						<u> </u>			00.70	1		606	22000	93.73	EACH	ANCHOR ASSEMBLY, TYPE 5A		_
7						1	·		5	1		606	22010	6		ANCHOR ASSEMBLY, TYPE 6-98	 	_
T			···			 			6	10		606	26500	16	EACH	ANCHOR ASSEMBLY, TYPE T	 	_
									6	9		606	27900	15	EACH	ANCHOR ASSEMBLY REBUILT, TYPE T		_
													2.000		1,1011	ANOTHER ACCEMBET NEBOLET, TIPE I		_
									7	6		606	28050	13	FACH	ANCHOR ASSEMBLY REBUILT, TYPE E-98		_
										8		606	32160	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST	<u></u>	
_									1			606	35000	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	 	
_						ļ <u>.</u>			7	4		606	35010	11	EACH	BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 1	-	-
_		4			<u> </u>	<u> </u>			4	1		606	35110	5	EACH	BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 2		
					<u> </u>	<u> </u>											· · · · · · · · · · · · · · · · · · ·	-
-					-	<u> </u>	<u> </u>		2			606	60028	2	EACH	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL), 35MPH DESIGN SPEED, 36" WIDTH		-
┯	·		<u> </u>		-	 -			2			606	60600	2	EACH	QUADGARD WHEEL DEFLECTOR ASSEMBLY		_
\dashv			<u> </u>		- 	 	 		2	000.5		606	61000	2		IMPACT ATTENUATOR, MISC.: REMOVAL OF IMPACT ATTENUATOR	52	_
十						 			50	362.5		606	98000	412.50		GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING GUARDRAIL, TYPE 5	51	_
-+			<u></u>		 		ļ			11		606	98100	11	EACH	GUARDRAIL, MISC.: GUARDRAIL RAIL ELEMENT	51	
$\neg \dagger$						 	839	849				600	14000	1.000	pry-	CUPO TVPE O A		_
\top		· · · · · · · · · · · · · · · · · · ·	l		<u> </u>	 	000	043	14			609 622	14000 10160	1,688 14		CURB, TYPE 2-A		_
				ļ <u>.</u>					1			622	25000	14	FT EACH	CONCRETE BARRIER, SINGLE SLOPE, TYPE D CONCRETE BARRIER END SECTION, TYPE D		_
					<u> </u>	— ——			1 1	***		622	25050	 	FACH	CONCRETE BARRIER, END ANCHOR, REINFORCED, TYPE D		_
T												022	20000	 	LAVII	CONCRETE BARRIER, END ANCHOR, REINFORGED, TYPE D	ļ	_
\mathbf{I}														 				_
\perp														 				-
														———		PAVEMENT ITEMS		-
				144	15	99						253	90000	258	CU YD	PAVEMENT REPAIR, MISC.: PARTIAL DEPTH	13	-
4	344,593											254	01000	344,593		PAVEMENT PLANING, ASPHALT CONCRETE (1.75")	13	-
4							1,932	1,877				254	01000	3,809	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (2.25")		-
-		25,737			<u> </u>	<u> </u>	ļ					254	01000	25,737	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (2.75")		-
4						<u> </u>	<u> </u>					<u> </u>					 	-
+			779		-	ļ	<u> </u>					254	01000	779	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (5.75")	<u> </u>	-
_			604	ļ	1	24	.		<u> </u>			254	01000	628	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (7.25")	 	_
					ļ	<u> </u>						254	01000	1,093	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (8.00")		-
	3,448	257	1.000	<u> </u>	 		ļ	<u></u>				254	01600	3,705		PATCHING PLANED SURFACE		_
- 1			1,383		-	24	1		<u> </u>			255	10151	1,407	SQ YD	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS, AS PER PLAN	14	-
+				1	1	f	ł	i	ı l		I	1	1	1 1				-
_			4 202			0.4												
 			4,293 246			84						255 301	20000 46001	4,377 251		FULL DEPTH PAVEMENT SAWING ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN		_

			······································			S	HEET N	UMBER			· · · · · · · · · · · · · · · · · · ·			······································		T	ITEM	T	T		
3	41	42	43	44	47	48	49	50	55	56	69	70	71	72	75	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	REF. SHEET
	400				-															PAVEMENT ITEMS - CONT'D	
	182 109	34,459	2 574	-	 	<u> </u>	322	312	<u> </u>	ļ					ļ	304	20000	816		AGGREGATE BASE	
	109	34,439	2,574	138	2			 	 	ļ				ļ		407	10000	37,142		TACK COAT	
	55		1,288	130	+	-		 		 		 		 		407	13900	140		TACK COAT, 702.13	
		13,632		-	+	 	 	+	 -	<u> </u>						407 408	14000 10000	1,343		TACK COAT FOR INTERMEDIATE COURSE PRIME COAT	
_		10,002	1,200	 		<u> </u>			 	 		 	-	-		400	10000	14,928	GALLON	PRIME COAT	
			893	 		1	 		 	 		 	 		 	442	00201	893	CHVD	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN	
	45	16,754	**-*				 	†	<u> </u>	 		 		 		442	10000	16,799	CUYD	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446), AS PER PLAN ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	14
	45							 	1	 				1		442	20200	45		ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448)	
			1,071				T	1		1		 			 	442	20201	1,071	CUYD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN	4.4
			,	-					348	641			-			448	46061	989	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG64-22, AS PER PLAN	14
				1									<u> </u>			1	10001		0010	AGE TALL CONORLES E INTERNIEDIATE GOODIGE, TIPE 1, ONDER GOARDRAIL, PG04-22, AS PER PLAN	53
							1,932	1,877						- 		452	13000	3,809	SQ YD	9" NON-REINFORCED CONCRETE PAVEMENT	
		1,657	159											1		617	10101	1,816	CUYD	COMPACTED AGGREGATE, AS PER PLAN	14
		34,078	3,243									i				617	20000	37,321	SQ YD	SHOULDER PREPARATION	1177
		127,842														618	40100	127,842		RUMBLE STRIPS, (ASPHALT CONCRETE)	
_						1,797										SPECIAL	69060000	1,797	CU YD	BERM REPAIR, FLEXIBLE	14
														· ·						DRAINAGE	
																202	20010	1	EACH	HEADWALL REMOVED	
				ļ												202	35100	6	FT	PIPE REMOVED, 24" AND UNDER	
					ļ			ļ <u>.</u>								203	20001	15		EMBANKMENT, AS PER PLAN	51
_			****					<u> </u>		<u> </u>						601	32210	7		ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER	*
2					<u> </u>					<u> </u>						602	20000	0.20	CU YD	CONCRETE MASONRY	
				 	- 								ļ		ļ						
+		- 1	4	ļ												603	04600	6	FT	12" CONDUIT, TYPE C	
			1	ļ			1	11								604	09000	4		CATCH BASIN ADJUSTED TO GRADE	
_				ļ	-			 		 					ļ	604	34500	11	EACH	MANHOLE ADJUSTED TO GRADE	
								 							 						
\dashv				<u> </u>	+			 						 			<u></u>				
				 	 										1,397	621	00100	1,397	EACH	TRAFFIC CONTROL	
_			·-····································	-		-								-	1,465	621	54000	1,397		RAISED PAVEMENT MARKER REMOVED	
				 				 	193	260				 	1,400	626	00100	453		BARRIER REFLECTOR	
			· · · · · · · · · · · · · · · · · · ·						100		9	5				632	26501	14		DETECTOR LOOP, AS PER PLAN	
					1						2	<u>-</u>			<u> </u>	632	27009	2		LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	68 68
																				LOGI DETECTOR GRAT, DEEA! AND EXTENSION FIFE, AGFERFEAN	00
											6	5				632	27201	11	EACH	LOOP DETECTOR TIE IN, AS PER PLAN	68
											265					632	65300	265		LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG	- 00
											120					632	90500	120	FT	SIGNALIZATION, MISC.: REMOVE AND REINSTALL LASHING RODS	
														0.78		644	00100	32.39		EDGE LINE	
-				<u></u>									13.32			644	00200	13.32	MILE	LANE LINE	
+																					
													0.12	0.89		644	00300	1.01		CENTER LINE	
-														5,912		644	00400	16,685		CHANNELIZING LINE	······································
				ļ									372	220		644	00500	592		STOP LINE	·····
+					ļ								3,533	2,173	ļ	644	00700	5,706		TRANSVERSE/DIAGONAL LINE	
-	·			 									1,640			644	01200	1,640	FT	PARKING LOT STALL MARKING	
													40	- <u> </u>	ļ		2/22				
+					-								16	25		644	01300	41		LANE ARROW	
_													4			644	01600	4 70		HANDICAP SYMBOL MARKING	
┪~													70			644	20800	70		YIELD LINE	
		····		ļ									2 0.56			SPECIAL	64440000	2		AIR SPEED ZONE MARKING	14
					-								0.56			646	10000	0.56	MILE	EDGE LINE	
+					 								0.30			646	10100	0.00	KAII P**	LANG LING	
+				<u> </u>	+			 					200			646	10300	0.30		LANE LINE	
+					 								1,270	 		646	20200	200 1,270		CHANNELIZING LINE	
_				<u> </u>	1								1,410	 		V -1 0	20200	1,210	FT	PARKING LOT STALL MARKING	
十				 	1									 		<u> </u>					
-				 	1																
																				,	

					SHEET	NUMBER		······				T	ITEM	l			I BEE	- 8
15	16	17	19-24	25	26	27	28	29	30	71	72	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	REF. SHEET	. B
																STRUCTURES		十
							,									RIC-30-1388 (SFN 7001320)	76	1
											····					RIC-30-1408L (SFN 7001355)	76	7
																RIC-30-1408R (SFN 7001444)	77	1
														ļ		RIC-30-1441 (SFN 7001479)	78]
													<u> </u>			RIC-30-1527 (SFN 7001495)	78	
\longrightarrow										<u> </u>				ļ		RIC-30-1640 (SFN 7001517)	79	7
																RIC-30-1750L (SFN 7001568)	80	7
																RIC-30-1750R (SFN 7001592)	80	7
									ļ							RIC-30-1915L (SFN 7001657)	81	7
										_						RIC-30-1915R (SFN 7001681)	82	1
													<u> </u>					
										<u> </u>						MAINTENANCE OF TRAFFIC		
	120											614	11110	120	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
	- 6				ļ							614	11500	6		WORKSITE TRAFFIC SUPERVISOR		_
		. 8							2			614	12336	10	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)		
	-					ļ	1	1	4			614	12338	6		WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)		4
_			LUMP			ļ						614	12420	LUMP		DETOUR SIGNING		
35										ļ		614	12460	35	EACH	WORK ZONE MARKING SIGN]
						ļ			ļ <u>-</u>	!								
 _	65			·		ļ				<u> </u>		614	12470	65		WORK ZONE SPEED LIMIT SIGN		
1						 						614	12484	31	EACH	WORK ZONE INCREASED PENALTIES SIGN		
	8					<u></u>			<u> </u>	ļ		614	12410	8		SPEED ZONE AHEAD SYMBOL SIGN		
5												614	12500	5		REPLACEMENT SIGN		
0										<u> </u>		614	12600	20	EACH	REPLACEMENT DRUM		
-					ļ				<u> </u>									
0										<u> </u>		614	13000	150	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		٦
				12	12	12						614	13202	36		BARRIER REFLECTOR, TYPE A2		7
		88					12	12	60			614	13300	172		BARRIER REFLECTOR, TYPE B		٦
				12	16	16						614	13302	44		BARRIER REFLECTOR, TYPE B2		$\overline{}$
		84					12	12	60			614	13350	168	EACH	OBJECT MARKER, ONE WAY		
																		٦
		15						-				614	18601	15	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	17	П
										13.32		614	20100	13.32		WORK ZONE LANE LINE, CLASS I, 642 PAINT		
										13.32		614	20550	13.32		WORK ZONE LANE LINE, CLASS III, 642 PAINT		
					·····					0.12	0.89	614	21100	1.01	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT		
				0.06	0.06	0.06		· · · · · · · · · · · · · · · · ·				614	21200	0.18	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE 1		٦
														<u> </u>				٦
									<u> </u>	0.12	0.89	614	21550	1.01	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		٦
		0.30							1.15	31.61		614	22100	33.06	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT		٦
		2.10		0.38	0.44	0.42			1.32	<u> </u>		614	22200	4.66	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE 1		٦
				······································						31.61		614	22350	31.61		WORK ZONE EDGE LINE, CLASS III, 642 PAINT		
										10,773	5,912	614	23200	16,685	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT		
																		٦
	****									10,773	5,912	614	23680	16,685	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT		┪
		6,400							3,271			614	24200	9,671		WORK ZONE DOTTED LINE, CLASS I, 642 PAINT		٦
							<u> </u>			3,533	2,173	614	25210	5,706	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS II, 642 PAINT		7
										3,533	2,173	614	25620	5,706	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT		٦
										236		614	26200	236		WORK ZONE STOP LINE, CLASS I, 642 PAINT		٦
		·																┪
				24	24	24						614	26400	72	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE 1		4
I										236		614	26610	236		WORK ZONE STOP LINE, CLASS III, 642 PAINT	·····	-
				LUMP	LUMP	LUMP						615	10000	LUMP		ROADS FOR MAINTAINING TRAFFIC		1
1				440	56	428	ļ					615	25001	924		PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	17	4
		2,840					230	240	1,500		``	622	40020	4,810		PORTABLE CONCRETE BARRIER, 32"		۲
		1,200					310	310	1,160	T		622	40040	2,980		PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED		\dashv
																, The section of the		_
												T						ㅓ
									I			614	11000	LUMP		MAINTAINING TRAFFIC	·	-
												619	16010	6		FIELD OFFICE, TYPE B		ㅓ
]												624	10000	LUMP		MOBILIZATION		\dashv
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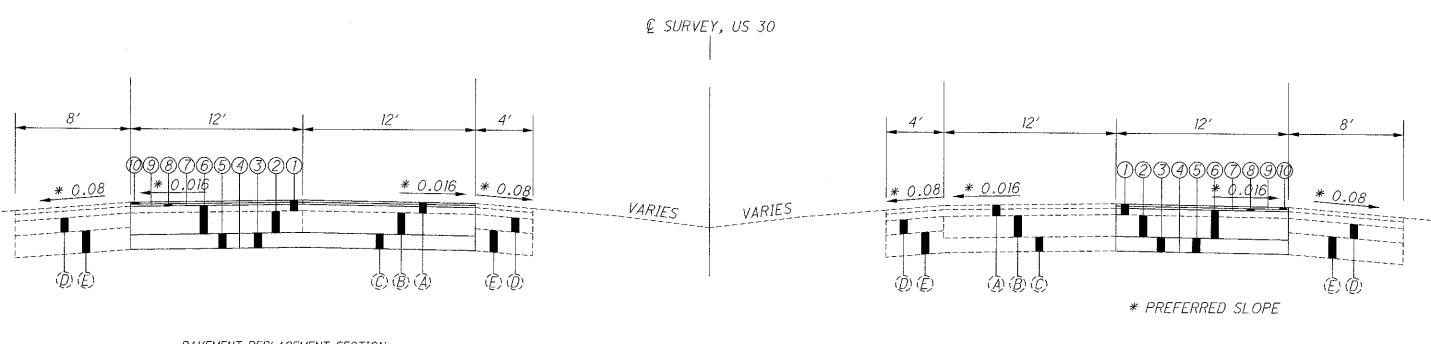
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ASD

RIC

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€ SURVEY, US 30

<u>PAVEMENT REPLACEMENT SECTION</u>
REPLACE PAVEMENT IN DRIVING LANE AND PASSING LANE AT STRUCTURE
RIC-30-1408L, 120FT ON EAST END OF STRUCTURE, JUST BEYOND APPROACH SLAB. REPLACE PAVEMENT IN DRIVING LANE ONLY AT STRUCTURE RIC-30-1408L, HOFT ON WEST END OF STRUCTURE, JUST BEYOND APPROACH SLAB.

<u>PAVEMENT REPLACEMENT SECTION</u>
REPLACE PAVEMENT IN DRIVING LANE ONLY AT STRUCTURE RIC-30-1408R,
80FT ON EACH END OF STRUCTURE, JUST BEYOND APPROACH SLAB.

8' 12' 12')98765432(<u>* 0.016</u> * 0.08 * 0.08 VARIES (C) (B) (A)

<u>PAVEMENT REPLACEMENT SECTION</u>
REPLACE PAVEMENT IN DRIVING LANE AND PASSING LANE AT STRUCTURE
RIC-30-1915L, 80FT ON EAST END OF STRUCTURE, JUST BEYOND APPROACH SLAB.

REPLACE PAVEMENT IN DRIVING LANE AND PASSING LANE AT STRUCTURE RIC-30-1915L, 100FT ON WEST END OF STRUCTURE (DRIVING LANE) AND 50FT ON WEST END OF STRUCTURE (PASSING LANE), JUST BEYOND APPROACH SLAB.

LEGEND - PROPOSED

- 2 ITEM 202 PAVEMENT REMOVED

 \bigcirc

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- 6.00" ITEM 304 AGGREGATE BASE
- TIEM 407 TACK COAT

DESIGN WORKST

1.50" ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)

PAVEMENT REPLACEMENT CALCULATIONS RIC-30-1408L:

120FT X 24FT / 9 = 320 SQ YD

110FT X 12FT / 9 = 147 SQ YD

467 SQ YD

RIC-30-1408R:

160FT X 12FT / 9 = 213 SQ YD

213 SQ YD

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (8.00") = 680 SQ YD

ITEM 202 PAVEMENT REMOVED = 680 SQ YD

ITEM 203 EXCAVATION = 680 SQ YD X 6" / 36 = 113 CU YD

ITEM 204 SUBGRADE COMPACTION = 680 SQ YD

ITEM 304 AGGREGATE BASE = 680 SQ YD X 6" / 36 = 113 CU YD

ITEM 302 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN = 680 SQ YD X 14" / 36 = 264 CU YD

ITEM 407 TACK COAT = 680 SQ YD X 0.10 GAL / SQ YD = 68 GAL

ITEM 442 ASPHALT CONCRETE INTERM COURSE, 19MM, TYPE A (448) = 680 SQ YD X 1.5" / 36 = 28 CU YD

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE = 680 SQ YD X 0.05 GAL / SQ YD = 34 GAL

ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) = 680 SQ YD X 1.5" / 36 = 28 CU YE

RIC-30-1915L:

80FT X 24FT-/ 9 = 213 SQ YD

100FT X 12FT / 9 = 133 SQ YD

50FT X 12FT / 9 = 67 SQ YD

413 SQ YD

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (8.00") = 413 SQ YD

ITEM 202 PAVEMENT REMOVED = 413 SQ YD

ITEM 203 EXCAVATION = 413 SQ YD X 6" / 36 = 69 CU YD

ITEM 204 SUBGRADE COMPACTION = 413 SQ YD

ITEM 304 AGGREGATE BASE = 413 SQ YD X 6" / 36 = 69 CU YD

ITEM 302 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN = 413 SQ YD X 14" / 36 = 161 CU YD

ITEM 407 TACK COAT = 413 SQ YD X 0.10 GAL / SQ YD = 41 GAL

ITEM 442 ASPHALT CONCRETE INTERM COURSE, 19MM, TYPE A (448) = 413 SQ YD X 1.5" / 36 = 17 CU YD

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE = 413 SQ YD X 0.05 GAL / SQ YD = 21 GAL

ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) = 413 SQ YD X 1.5" / 36 = 17 CU YD

1 8.00" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE

3 6.00" ITEM 203 EXCAVATION

¶ ITEM 204 SUBGRADE COMPACTION

14.00" ITEM 302 ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN

② 1.50" ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448) ITEM 407 TACK COAT FOR INTERMEDIATE COURSE

LEGEND - EXISTING

EXISTING ASPHALT CONCRETE VARIES, SEE PAVEMENT CORING INFORMATION

EXISTING 9" REINFORCED CONCRETE

EXISTING 6" SUBBASE

EXISTING VARIABLE AGGREGATE BASE

EXISTING VARIABLE SUBBASE

			LEN	GTH			25		407		442		6	604	618		_					209	408	617	617
ROUTE	LOG P TC LOG P	>	MILE	FEET	WIDTH FEET AVG.	PAVEMENT AREA	PAVEMENT PLANING, ASPHALT CONCRETE (1.75")	PATCHING PLANED SURFACE	COAT @		ASPH CONCE SURF COURSE MM, TY (446	RETE ACE E, 12.5 PE A	B/ ADJI	ATCH ASIN USTED GRADE	RUMBLE STRIPS, (ASPHAL CONCRETI				AGGRE SHOU PROPE WID	LDER OSED	AGGREGATE SHOULDER AREA	LINEAR GRADING	PRIME COAT @ 0.40 GAL/SY		SHOULDER PREPARATIO
											,				ļ									1.75 INCHES AVG. THICKNESS	-
	STAT	ION				SQ YD	SQ.YD	SQ.YD	GALLON	10	1CH (CU.YD.	F	ACH	FT				FT	FT	SQ YD	MILE	GALLON	CU YD	SQ.YD
C 30	385+00.00	676+08.96	5.51	29109	72.0	232,872	232,872	2,329	23,287		.75				116436				2.0	2.0	25,875	22.05	10,350	1,258	
30	670+00.00	697+34.00	0.52	2734	72.0	21,872	21,872	219	2,187			1,063			10936				2.0	2.0	2,430	2.07	972	118	25,874
D 30	0+00.00	4+95.44	0.09	495	72.0	3,960	3,960	40	396		.75	193			1980				2.0	2.0	440	0.38	176		2,430
D 30	4+89.07	6+85.70	0.04	197	72.0	1,576	1,576	16	158		.75	77			788				2.0	2.0	175	0.15	70	22 8	440 176
30	BRIDGE DEDU	ICT RIC-30-14	08 L	-294.42	72.0	-2,355	-2,355	-24	-236		.75	-114			-588.84				2.0	2.0	-131	-0.11	-52	-6	-131
30	BRIDGE DEDU	ICT RIC-30-14	08 Pl	-294.42	72.0	-2,355	-2,355	-24	-236	1	.75	-114			-588.84				2.0	2.0	-131	-0.11	-52	-6	-131
30	BRIDGE DEDU	ICT RIC-30-17:	50 L	-140	72.0	-1,120	-1,120	-11	-112	1	1.75	-54			-280				2.0	2.0	-62	-0.05	-25	-3	-62
30	BRIDGE DEDU	ICT RIC-30-17	50 R	-140	72.0	-1,120	-1,120	-11	-112		1.75	-54			-280				2.0	2.0	-62	-0.05	-25	-3	-62
30	BRIDGE DEDU	ICT RIC-30-19	15 և	-140	72.0	-1,120	-1,120	-11	-112		.75	-54			-280				2.0	2.0	-62	-0.05	-25	-3	-62
30	BRIDGE DEDU	ICT RIC-30-19	15 R	-140	72.0	-1,120	-1,120	-11	-112	1	1.75	-54			-280				2.0	2.0	-62	-0.05	-25	-3	-62
		· · · · · · · · · · · · · · · · · · ·			-												 								
30	US42 RAMPS					20,342	20,342	203	2,034	1	1.75	989				-			2.0	2.0	2,600	2.22	1,040	126	2,600
	ACCEL/DECEL	LANES			-	7,704	7,704	77	770		1.75	375				-									
30	LAVER RD RA	MDC				6,167	0.107	60	647		75										······································				
	ACCEL/DECEL					10,083	6,167 10,083	62 101	617 1,008		1 <i>.</i> 75	300 490							2.0	2.0	827	0.70	331	40	827
	REED RD RAM					7,762	7,762	78	776		1.75	377				_			2.0	2.0	1,125	0.96	450	55	1,125
	ACCEL/DECEL	LANES				6,827	6,827	68	683		1.75	332				1			-						
30	REST AREA A	CCEL /DECEL	LANES			6,278	6,278	63	628	1	1.75	305													
30	IR 71 ACCEL/E	ECEL LANES	/ MEDIAN	EXRA AI	REA	4596	4,596	46	460		1.75	223													
								ļ		<u> </u>															· · · · · · · · · · · · · · · · · · ·
C 30	KOOGLE RD P					11744	11,744	117	1,174			571					_		2.0	2.0	1,092	0.93	437	53	1,092
	ACCEL/DECEL	LANES			-	5715	5,715	57	572	-	1.75	278				 									
30	TROUT DR INT	FERSECTION	/ DECEL !	ANES / N	1	1354	1,354	14	135		1.75	66													
	THOO! BIVIN	LNGLOTION	DECLE	ANLS/ IV	ILDIAN	1354	1,334	14	100		1.75	00													
30	SR603 INTERS	SECTIONS AN	D MEDIAN	1		3157	3,157	32	316		1.75	153													
				:																					
30	EXTRA AREA	FOR U-TURN	MEDIANS	I		640	640	6	64		1.75	31							2.0	2.0	24	0.02	10	1	24
STEWA	RT RD OVERHE	EAD BRIDGE /	ABBBOAC	HES	-	267	267	3	27		1.75	12				-									
	DY RD OVERHE				+	267	267	3	27		1.75	13							1						
	RD OVERHEAD					333	333	3	33		1.75	16							 						
	D OVERHEAD		•	1		267	267	3	27		1.75	13													
			6.16	32535	1		344,593	3,448	34,459			16,754		1	127,842	1			1 1				 		

	ı														,												
						LENG	}T∺			25		407		442		142	407	604	604					209	408	617	617
	ROUTI	E	LOG F	0	SIDE OF ROAD FOR MEASUREMENT WIDTH	MILE	FEET	WIDTH FEET AVG.	PAVEMENT AREA	PAVEMENT PLANING, ASPHALT CONCRETE (2.75")	PATCHING PLANED SURFACE	COAT @	CON INTER COURS TYPE A PER (VAI	PHALT ICRETE MEDIATE SE, 19 MM, I (448), AS I PLAN RIABLE KNESS)	CONF SUF COUF MM, 7 (446),	PHALT CRETE RFACE RSE, 9.5 TYPE A AS PER LAN	TACK COAT FOR INTERM COURSE @ 0.05 GAL/SY	CATCH BASIN ADJUSTED TO GRADE	MANHOLE ADJUSTED TO GRADE		SH PR	GREGATI OULDER OPOSED WIDTH	SHOULDER		PRIME COAT @ 0.40 GAL/SY	COMPACTED AGGREGATE, AS PER PLAN 1.75 INCHES AVG. THICKNESS	SHOULDER PREPARATION
ŀ			STA	TION					SQ YD	SQ.YD	\$Q.YD	GALLON	INCH	CU.YD.	INCH	CU.YD.	GALLON	EACH	EACH				20.10		0.01.01		
C	40	+			207110/250	0.04		22.2										EACH	EACH		F1			MILE	GALLON	CU YD	SQ.YD
7	42		14+87 R	14+09 R	BOTH SIDES	0.01	78	66.0	572	572	6	57	1.50	24	1.25	20	29				2.0	2.0	35	0.03	14	2	35
<u>`</u>	42		14+09 R	8+66 R	BOTH SIDES	0.10	543	93.5	5,641	5,641	56	564	1.50	235	1.25	196	282				6.0	6.0	724	0.21	290	35	724
-	42		8+66 R	6+24 R	BOTH SIDES	0.05	242	95.0	2,554	2,554	26	255	1.50	106	1.25	89	128				6.0	6.0	323	0.09	129	16	323
4	42	+	6+24 R	4+32 R	BOTH SIDES	0.04	192	73.0	1,557	1,557	16	156	1.50	65	1.25	54	78		ļ		6.0	2	128	0.04	51	6	128
4	42	4	4+32 R	3+35 R	R	0.02	97	27.0	291	291	3	29	1.50	12	1.25	10	15						0	0.00	0	0	0
4	42		4+32 R	2+77 R	Ĺ,	(0.03)	(155)	46.5	801	801	8	80	1.50	33	1.25	28	40				6.0)	103	0.03	41	5	103
ļ	42		3+35 R	0+69 R	R	0.05	266	48.5	1,433	1,433	14	143	1.50	60	1.25	50	72					6.0	177	0.05	71	9	177
l	42	\perp	2+77 R	2+10 R	L	(0.01)	(67)	45.0	335	335	3	34	1.50	14	1,25	12	17				6.0)	45	0.01	18	2	45
l	42		2+10 R	0+69 L	i.	(0.03)	(141)	47.5	744	744	7	74	1 <i>.</i> 50	31	1.25	26	37				6.0		94	0.03	38	5	94
Ī	42		0+69 R	0+00 R	R	0.01	69	45.5	349	349	3	35	1.50	15	1.25	12	17					6.0		0.01	18	2	
Ī	42		0+00 L	1+51 L	R	0.03	151	47.0	789	789	8	79	1.50	33	1.25	27	39					6.0					46
1	42		0+69 L	1+51 L		(0.02)	(82)	29.0	264	264	3	26	1.50	11	1.25	9	13		<u></u>			0.0		0.03	40	5	101
t	42	\neg	1+51 L	2+61 L	BOTH SIDES	0.02	110	73.5	898	898	9			1									0	0.00	0	0	0
ŀ	42			* *	30111 SIDES							90	1.50	37	1.25	31	45					6.0	73	0.02	29	4	73
			2+61 L	3+31 L		(0.01)	(70)	29.0	226	226	2	23	1.50	9	1.25	8	11						0	0.00	. 0	0	00
ŀ	42		3+31 L	4+48 L	L _	(0.02)	(117)	54.0	702	702	7	70	1.50	29	1.25	24	35				6.0		78	0.02	31	44	78
ł	42		2+61 L	3+96 L.	R	0.03	135	33.0	495	495	5	50	1.50	21	1.25	17	25					6.0	90	0.03	36	4	90
1	42		3+96 L	4+48 L	R	0.01	52	27.0	156	156	2	16	1.50	7	1.25	5	8					6.0	35	0.01	14	2	35
ł	42	-	4+48 L	8+70 L	BOTH SIDES	0.08	422	55.5	2,602	2,602	26	260	1.50	108	1.25	90	130				6.0	6.0	563	0.16	225	27	563
4	42	+	8+70 L	20+00 L	BOTH SIDES	0,21	1130	36.0	4,520	4,520	45	452	1.50	188	1.25	157	226				2.5	5 2.5	628	0.43	251	31	628
-		_																									
4	42	MC	CELROY RD	INTERSECTI	ON				298	298	3	30	1.50	12	1.25	10	15										
4	42	ST	TEWART RD	INTERSECTI	ON				510	510	5	51	1.50	21	1.25	18	26										
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	TOTAL	LS				0.66	3487			25737	257	2574		1071		893	1288	1	1					1.19	1296	159	3243
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CALC BY:	Š	CHKDBY	MJS	

PAVEMENT REPAIR QUANTITIES

RIC/ASD-30-13.18/0.00 RIC-42-13.74

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STA				I	ہ ا		l	254	255	255	301	407
	TION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT PLANING, ASPHALT CONCRETE, 7.25"	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS, AS PER PLAN	FULL DEPTH PAVEMENT SAWING	ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	TACK COAT, 702.13
BEGIN	END		FT	FT	SQ YD		EA	SQ YD	SQ YD	FT	CU YD*	GAL
6+85	0+00	DRIVING	6	12	8.00	TRANS	6	48.00	48.00	180.00	9.67	4.80
6+85	0+00	PASSING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
684+14	670+94	DRIVING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
644+54	631+34	DRIVING	6	12	8.00	TRANS	3	24.00	24.00	90.00	4.83	2.40
644+54	631+34	PAVING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
631+34	618+14	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
618+14	604+94	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
618+14	604+94	DRIVING	8	12	10.67	TRANS	1	10.67	10.67	32.00	2.15	1.07
618+14	604+94	PASSING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
604+94	591+74	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
604+94	591+74	PASSING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
604+94	591+74	71 SB DECEL	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
604+94	591+74	71 SB DECEL	8	12	10.67	TRANS	1	10.67	10.67	32.00	2.15	1.07
578+54	565+34	DRIVING	71	12	94.67	LONG	1	94.67	94,67	95.00	19.06	9.47
565+34	552+14	DRIVING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
565+34	552+14	PASSING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1,61	0.80
499+34	486+14	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
499+34	486+14	PASSING	6	12	8.00	TRANS	3	24.00	24.00	90.00	4.83	2.40
486+14	472+94	DRIVING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
459+74	446+54	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
459+74	446+54	PASSING	6	12	8.00	TRANS	3	24.00	24.00	90.00	4.83	2.40
446+54	433+34	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
433+34	420+14	DRIVING	6	12	8.00	TRANS	7	56.00	56.00	210.00	11.28	5.60
433+34	420+14	PASSING	6	12	8.00	TRANS	5	40.00	40.00	150.00	8.06	4.00
420+14	406+94	DRIVING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
420+14	406+94	PASSING	6	12	8.00	TRANS	1	8.00	8.00	30.00	1.61	0.80
406+94	393+74	DRIVING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
406+94	393+74	PASSING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
393+74	380+54	DRIVING	6	12	8.00	TRANS	3	24.00	24.00	90.00	4.83	2.40
393+74	380+54	PASSING	6	12	8.00	TRANS	2	16.00	16.00	60.00	3.22	1.60
	555.01	171000110	 	٠, ۲	3.00	IIIANO	 	10.00	10.00	00.00	3.22	1.00
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TOTALS THIS COLUMN

64

604

604

1989

122

60

1	raidob are calculated daing all aspiral depth of 7.25 fiches.
	Note: The quantities on this sheet are for informational purposes only.
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TOTALS THIS COLUMN
**Values are calculated using an asphalt depth of 5.75 inches.

DRIVING

PASSING

12

12 6

22

29.33

8.00

LONG

TRANS

1

80

29.33

24.00

779

29.33

24.00

779

56.00

72.00

2304

4.69

3.83

124

2.93

2.40

78

0+00

0+00

6+85

6+85

	TION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AF	TYPE OF REPAIR	NUMBER OF REPAIR	PAVEMENT PLANING, ASPHALT CONCRETE, 5.7	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS AS PER PLAN	FULL DEPTH PAVEMENT SAWING	ASPHALT CONCRETE BAS PG64-22, AS PER PLAN	TACK COAT, 702.13
BEGIN	END		FT	FT	SQ YD		EA	SQ YD	SQ YD	FT	CU YD**	GAL
393+74	406+94	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
420+14	433+34	DIVING	12	6	8.00	TRANS	8	64.00	64.00	192.00	10.22	6.40
420+14	433+34	PASSING	12	6	8.00	TRANS	4	32.00	32.00	96.00	5.11	3.20
433+34	446+54	DRIVING	12	6	8.00	TRANS	2	16.00	16.00	48.00	2.56	1.60
446+54	459+74	DRIVING	12	6	8.00	TRANS	6	48.00	48.00	144.00	7.67	4.80
446+54	459+74	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
472+94	486+14	DRIVING	12	6	8.00	TRANS	2	16.00	16.00	48.00	2.56	1.60
472+94	486+14	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
499+34	512+54	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
512+54	525+74	DRIVING	12	6	8.00	TRANS	2	16.00	16.00	48.00	2.56	1.60
525+74	538+94	DRIVING	12	6	8.00	TRANS	4	32.00	32.00	96.00	5.11	3.20
52 5+74	538+94	PASSING	12	6	8.00	TRANS	4	32.00	32.00	96.00	5.11	3.20
538+94	552+14	DRIVING	12	6	8.00	TRANS	3	24.00	24.00	72.00	3.83	2.40
538+94	552+14	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
565+34	578+54	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
578+34	591+74	DRIVING	12	6	8.00	TRANS	3	24.00	24.00	72.00	3.83	2.40
578+34	591+74	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
578+34	591+74	71SB DECEL	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
578+34	591+74	DRIVING	12	8	10.67	TRANS	1	10.67	10.67	28.00	1.70	1.07
591+74	604+94	DRIVING	12	6	8.00	TRANS	5	40.00	40.00	120.00	6.39	4.00
591+74	604+94	PASSING	12	6	8.00	TRANS	5	40.00	40.00	120.00	6.39	4.00
591+74	604+94	DRIVING	6	181	120.67	LONG	1	120.67	120.67	368.00	19.27	12.07
604+94	618+14	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
604+94	618+14	DRIVING	12	8	10.67	TRANS	1	10.67	10.67	28.00	1.70	1.07
604+94	618+14	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
618+14	631+34	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
618+14	631+34	PASSING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
631+34	644+54	DRIVING	12	6	8.00	TRANS	2	16.00	16.00	48.00	2.56	1.60
657+74	670+94	DRIVING	12	6	8.00	TRANS	2	16.00	16.00	48.00	2.56	1.60
670+94	684+14	DRIVING	12	6	8.00	TRANS	1	8.00	8.00	24.00	1.28	0.80
684+14	697+34	DRIVING	12	6	8.00	TRANS	3	24.00	24.00	72.00	3.83	2.40
0+00	6+85	DRIVING	12	6	8.00	TRANS	5	40.00	40.00	120.00	6.39	4.00
ስታለበ	6+85	DRIVING	10	22	20.22	LONG		00.00	20.00	70.00		

EASTBOUND FULL DEPTH PAVEMENT REPAIRS

255

255

301

407

MAINI INF	PARTIAL	DEPTH PAVEMENT REPAIR	2
MAHALINE	FARHAL	. DEPIR PAVENIENI BEPAIR	

BEGIN END PASSING FT FT SQ YD EA CU										253
6+57 0+00 WB DRIVING 6 12 8.00 TRANS 1 1.1. 6+57 0+00 WB PASSING 6 12 8.00 TRANS 1 1.1. 6+57 0+00 WB PASSING 6 12 8.00 TRANS 4 6.6. 6+57 0+00 WB LEFT TURN LANE 6 12 8.00 TRANS 2 3.3. 697+34 684+14 WB DRIVING 6 12 8.00 TRANS 2 3.3. 697+34 684+14 WB PASSING 6 12 8.00 TRANS 2 3.3. 697+34 684+14 WB DRIVING 3 12 4.00 TRANS 1 0.4. 697+34 684+14 WB DRIVING 3 12 4.00 TRANS 1 0.4. 684+14 670+94 WB DRIVING 3 12 4.00 TRANS 1 0.4. 684+14 670+94 WB DRIVING 3 12 4.00 TRANS 1 0.4. 684+14 670+94 WB DRIVING 3 12 4.00 TRANS 1 0.4. 684+14 670+94 WB PASSING 3 12 4.00 TRANS 1 0.4. 684+14 670+94 WB PASSING 3 12 4.00 TRANS 2 1.4. 684+14 670+94 WB PASSING 3 12 4.00 TRANS 1 0.4. 684+14 631+34 WB PASSING 3 12 4.00 TRANS 1 0.4. 684+14 631+34 WB PASSING 3 12 4.00 TRANS 1 0.4. 684+54 631+34 WB PASSING 3 12 4.00 TRANS 1 0.4. 684+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.4. 684+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.4. 684+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.4. 684+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.4. 681+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.4. 681+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.4. 681+34 618+14 WB PASSING 3 12 4.00 TRANS 1 0.4. 681+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.4. 681+34 618+14 WB PASSING 3 12 4.00 TRANS 1 0.4. 681+34 604+94 WB PASSING 3 12 4.00 TRANS 2 1.4. 681+34 604+94 WB PASSING 3 12 4.00 TRANS 1 0.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.4. 681+14 604+94 WB PASSING 3 12 4.00 TRAN	STAT	FION	DIRECTION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT REPAIR, MISC.: PARTIAL DEPTH
6+57 0+00 WB PASSING 6 12 8.00 TRANS 4 6.4-57 0+00 WB LEFTTURN LANE 6 12 8.00 TRANS 2 3.3 697-34 684-14 WB DAILYING 6 12 8.00 TRANS 2 3.3 697-34 684-14 WB DAILYING 6 12 8.00 TRANS 2 3.3 697-34 684-14 WB DAILYING 6 12 8.00 TRANS 2 3.3 697-34 684-14 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB DAILYING 3 12 4.00 TRANS 2 3.1 684-15 631-34 WB DAILYING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB PASSING 3 12 4.00 TRANS 1 0.0 684-14 670-94 WB PASSING 3 12 4.00 TRANS 2 1.1 684-15 631-34 WB PASSING 6 12 8.00 TRANS 2 1.1 684-15 631-34 WB PASSING 6 12 8.00 TRANS 2 1.1 681-14 WB DAILYING 3 12 4.00 TRANS 2 1.1 681-14 WB DAILYING 3 12 4.00 TRANS 2 1.1 681-14 WB DAILYING 3 12 4.00 TRANS 2 1.1 681-14 604-94 WB DAILYING 3 12 4.00 TRANS 2 1.1 681-14 604-94 WB DAILYING 3 12 4.00 TRANS 2 1.1 681-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 6 12 8.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 604-94 WB DAILYING 6 12 8.00 TRANS 1 1.1 6.55-74 578-54 WB DAILYING 3 12 4.00 TRANS 1 0.0 618-14 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILYING 3 12 4.00 TRANS 1 1.0 6.4 69-74 WB DAILY					FT	FT	SQ YD		EA	CU YD*
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697+34 684+14 WB DRIVING 6 12 8.00 TRANS 2 3.4 697+34 684+14 WB PASSING 6 12 8.00 TRANS 2 3.5 697+34 684+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 697+34 684+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 698+14 670+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 698+14 670+94 WB DRIVING 6 12 8.00 TRANS 1 0.6 698+14 670+94 WB DRIVING 6 12 8.00 TRANS 3 4.4 684+14 670+94 WB DRIVING 6 12 8.00 TRANS 3 4.4 684+14 670+94 WB PASSING 3 12 4.00 TRANS 2 1.4 694+54 631+34 WB DRIVING 6 12 8.00 TRANS 2 1.4 694+54 631+34 WB PASSING 6 12 8.00 TRANS 2 3.4 694+54 631+34 WB PASSING 6 12 8.00 TRANS 2 3.4 694+54 631+34 WB PASSING 3 12 4.00 TRANS 2 3.4 694+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.4 631+34 WB PASSING 3 12 4.00 TRANS 1 0.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 618+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 618+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 2 1.4 646+54 WB PASSING 3 12 4.00 TRANS 2	6+57				6	12	8.00	TRANS	4	6.44
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697+34 684+14 WB DRIVING 3 12 4.00 TRANS 1 0.0 684+14 670-94 WB DRIVING 3 12 4.00 TRANS 1 0.1 684+14 670-94 WB DRIVING 6 12 8.00 TRANS 3 4.6 684+14 670-94 WB DRIVING 6 12 8.00 TRANS 1 0.1 684+14 670-94 WB DRIVING 6 12 8.00 TRANS 1 0.1 684+14 670-94 WB PASSING 3 12 4.00 TRANS 1 0.1 644+54 631-34 WB DRIVING 3 12 4.00 TRANS 2 1.6 644+54 631-34 WB PASSING 6 12 8.00 TRANS 2 1.6 644+54 631-34 WB PASSING 6 12 8.00 TRANS 2 1.6 644+54 631-34 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 G18+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 G18+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 G18+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.0 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 552+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 555+34 555+34 552+34 WB PASSI	697+34	684+14	WB	DRIVING	6	12	8.00	TRANS	2	3.22
684-14 670-94 WB DRIVING 3 12 4.00 TRANS 1 0.6 684-14 670-94 WB DRIVING 6 12 8.00 TRANS 3 4.6 684-14 670-94 WB PASSING 3 12 4.00 TRANS 1 0.6 684-14 670-94 WB PASSING 3 12 4.00 TRANS 1 0.6 684-14 670-94 WB PASSING 3 12 4.00 TRANS 2 1.6 644-54 631-34 WB PASSING 6 12 8.00 TRANS 2 1.6 644-54 631-34 WB PASSING 6 12 8.00 TRANS 1 0.6 631-34 618-14 WB PASSING 3 12 4.00 TRANS 1 0.6 631-34 618-14 WB PASSING 3 12 4.00 TRANS 2 1.6 631-34 618-14 WB PASSING 3 12 4.00 TRANS 2 1.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 2 1.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 0.6 618-14 604-94 WB PASSING 3 12 4.00 TRANS 1 1.6 691-74 578-54 WB PASSING 3 12 4.00 TRANS 1 1.6 691-74 578-54 WB PASSING 3 12 4.00 TRANS 1 1.6 655-34 552-14 WB DRIVING 6 12 8.00 TRANS 1 0.6 655-34 552-14 WB DRIVING 3 12 4.00 TRANS 1 0.6 655-34 552-14 WB DRIVING 3 12 4.00 TRANS 1 0.6 655-74 512-54 WB DRIVING 3 12 4.00 TRANS 1 0.6 625-74 512-54 WB DRIVING 3 12 4.00 TRANS 1 0.6 625-74 512-54 WB DRIVING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 1 0.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 2 1.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 2 1.6 625-74 612-54 WB PASSING 3 12 4.00 TRANS 2 1.6 625-74 616-64 WB PASSING		684+14	WB	PASSING	6	12	8.00	TRANS	2	3.22
684+14 670+94 WB DRIVING 6 12 8.00 TRANS 3 4.6 684+14 670+94 WB PASSING 3 12 4.00 TRANS 1 0.0 644+54 631+34 WB DRIVING 3 12 4.00 TRANS 2 1.6 644+54 631+34 WB PASSING 6 12 8.00 TRANS 2 3.6 644+54 631+34 WB PASSING 3 12 4.00 TRANS 2 3.6 644+54 631+34 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 GIB+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 GIB+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 GIB+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 GIB+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 504+94 WB PASSING 6 12 8.00 TRANS 1 1.6 6591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1.6 6591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1.6 656+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 656+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 656+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 656+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 658+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 658+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 668+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 678+34 552+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 678+34 532+34 WB PASSING 3 12 4.00 TRANS 1 0.6 678+34 532+34 WB PASSING 3 12 4.00 TRANS 2 1.6 678+34 532+34 WB PASSING 3 12 4.00 TRANS 3 2.4 646+94 489+34 WB PASSIN	697+34	684+14	WB	DRIVING	3	12	4.00	TRANS	1	0.81
684+14 670+94 WB PASSING 3 12 4.00 TRANS 1 0.0 644+54 631+34 WB DRIVING 3 12 4.00 TRANS 2 1.6 644+54 631+34 WB PASSING 6 12 8.00 TRANS 2 1.6 644+54 631+34 WB PASSING 3 12 4.00 TRANS 1 0.6 631+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB DRIVING 6 12 8.00 TRANS 1 0.6 618+14 604+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 618+14 604+94 WB DR	684+14	670+94	WB	DRIVING	3	12	4.00	TRANS	1	0.81
644+54 631+34 WB DRIVING 3 12 4.00 TRANS 2 1.6 644+54 631+34 WB PASSING 6 12 8.00 TRANS 2 3.6 644+54 631+34 WB PASSING 3 12 4.00 TRANS 1 0.8 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 0.8 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1.6 658+34 S52+14 WB DRIVING 3 12 4.00 TRANS 1 1.6 551+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1.6 5552+14 S38+94 WB DRIVING 3 12 4.00 TRANS 1 1.6 5525+74 512+54 WB DRIVING 6 12 8.00 TRANS 1 1.6 5525+74 512+54 WB DRIVING 6 12 8.00 TRANS 1 1.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 2 1.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 3 2.4 525+74 512+54 WB PASSING 3 12 4.00 TRANS 3 2.4 525+74 512+54 WB PASSING 3 12 4.00 TRANS 3 2.4 525+74 512+54 WB PASSI	684+14	670+94	WB	DRIVING	6	12	8.00	TRANS	3	4.83
644+54 631+34 WB PASSING 6 12 8.00 TRANS 2 3.4 644+54 631+34 WB PASSING 3 12 4.00 TRANS 1 0.8 631+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 1 0.8 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 1.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 6 12 8.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+94 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+14 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+14 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+14 WB PASSING 3 12 4.00 TRANS 3 2.4 618+14 E04+14 WB PASSING 3 12 4.00 TRAN	684+14	670+94	WB	PASSING	3	12	4.00	TRANS	1	0.81
644+54 631+34 WB PASSING 3 12 4.00 TRANS 1 0.6 631+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB DRIVING 6 12 8.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 1.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1 0.6 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 552+74 512+54 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 525+74 512+54 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 439+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 439+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 439+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 439+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 439+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 W	644+54	631+34	WB	DRIVING	3	12	4.00	TRANS	2	1.61
631+34 618+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 631+34 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 1.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 1 0.6 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 552+14 S38+94 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 525+74 512+54 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 439+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 440+44 460+44 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 439+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6	644+54	631+34	WB	PASSING	6	12	8.00	TRANS	2	3.22
631+34 618+14 WB PASSING 3 12 4.00 TRANS 2 1.6 618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB DRIVING 6 12 8.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB PASSING 3 12 4.00 TRANS 1 1 0.6 618+14 WB DRIVING 6 12 8.00 TRANS 1 1 0.6 656+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 552+14 S38+94 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 552+14 S38+94 WB DRIVING 6 12 8.00 TRANS 1 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 446+54 433+34 WB PASSING 3 12 4.0	644+54	631+34	WB	PASSING	3	12	4.00	TRANS	1	0.81
618+14 604+94 WB DRIVING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 2 3.2 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 489+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420	631+34	618+14	WB	DRIVING	3	12	4.00	TRANS	2	1.61
618+14 604+94 WB PASSING 3 12 4.00 TRANS 1 0.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 2 3.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 S38+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 S38+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.6 433+34 420+14 WB PASSING 3 12 4.00	631+34	618+14	WB	PASSING	3	12	4.00	TRANS	2	1.61
618+14 604+94 WB DRIVING 6 12 8.00 TRANS 2 3.6 618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 1.6 555+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 555+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 459+74 446+54 WB PASSING 3 12 4.00 TRANS 1 0.6	618+14	604+94	WB	DRIVING	3	12	4.00	TRANS	1	0.81
618+14 604+94 WB PASSING 6 12 8.00 TRANS 1 1.6 591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 0.6 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 1.6 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.6 525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.6 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 3.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 3 3.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 1 0.6	618+14	604+94	WB	PASSING	3	12	4.00	TRANS	1	0.81
591+74 578+54 WB PASSING 3 12 4.00 TRANS 1 0.8 565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.0	618+14	604+94	WB	DRIVING	6	12	8.00	TRANS	2	3.22
565+34 552+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 480+14 WB PASSING 3 12 4.00 TRANS 1 0.8 480+14 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 WB PASSING 3 12 4.00 TRANS 1 0.8	618+14	604+94	WB	PASSING	6	12	8.00	TRANS	1	1.61
565+34 552+14 WB DRIVING 6 12 8.00 TRANS 1 1.6 552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.0	591+74	578+54	WB	PASSING	3	12	4.00	TRANS	1	0.81
552+14 538+94 WB DRIVING 6 12 8.00 TRANS 1 1.6 525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.0	565+34	552+14	WB	DRIVING	3	12	4.00	TRANS	1	0.81
525+74 512+54 WB DRIVING 3 12 4.00 TRANS 1 0.8 525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB PASSING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 1 0.8 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 433+34 420+14 WB PASSING 3 12 4.0	565+34	552+14	WB	DRIVING	6	12	8.00	TRANS	1	1.61
525+74 512+54 WB PASSING 3 12 4.00 TRANS 1 0.8 499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.0	552+14	538+94	WB	DRIVING	6	12	8.00	TRANS	1	1.61
499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 433+34 WB PASSING 3 12 4.00 TRANS	525+74	512+54	WB	DRIVING	3	12	4.00	TRANS	1	0.81
499+34 486+14 WB DRIVING 3 12 4.00 TRANS 2 1.6 499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 3 2.4 440+54 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING </td <td>525+74</td> <td>512+54</td> <td>WB</td> <td>PASSING</td> <td>3</td> <td>12</td> <td>4.00</td> <td>TRANS</td> <td>1</td> <td>0.81</td>	525+74	512+54	WB	PASSING	3	12	4.00	TRANS	1	0.81
499+34 486+14 WB PASSING 3 12 4.00 TRANS 1 0.8 486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 446+54 433+34 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 420+14 406+94 WB DRIVING </td <td>499+34</td> <td>486+14</td> <td>WB</td> <td>DRIVING</td> <td>3</td> <td>12</td> <td>4.00</td> <td></td> <td>2</td> <td>1.61</td>	499+34	486+14	WB	DRIVING	3	12	4.00		2	1.61
486+14 472+94 WB PASSING 3 12 4.00 TRANS 2 1.6 472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 406+94 393+74 WB PASSING 3 12 4.0	499+34	486+14	WB	PASSING	3	12	4.00	TRANS		0.81
472+94 459+74 WB PASSING 3 12 4.00 TRANS 1 0.8 459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 406+94 393+74 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING </td <td>486+14</td> <td>472+94</td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td>1.61</td>	486+14	472+94			 					1.61
459+74 446+54 WB DRIVING 3 12 4.00 TRANS 2 1.6 459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS	472+94	459+74	WB		ļ	12				0.81
459+74 446+54 WB PASSING 3 12 4.00 TRANS 4 3.2 446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.8 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 420+14 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 WB DRIVING 3 12 4.00 TRANS 1 0.6	459+74	446+54	WB	DRIVING						1.61
446+54 433+34 WB PASSING 3 12 4.00 TRANS 3 2.4 433+34 420+14 WB PASSING 3 12 4.00 TRANS 2 1.6 433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 420+14 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.6	459+74	446+54	WB		 -					3.22
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433+34 420+14 WB DRIVING 3 12 4.00 TRANS 1 0.6 420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.4 420+14 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.6										1.61
420+14 406+94 WB DRIVING 3 12 4.00 TRANS 3 2.2 420+14 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.6	433+34				+					0.81
420+14 406+94 WB PASSING 3 12 4.00 TRANS 2 1.6 406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.6					 					2.42
406+94 393+74 WB PASSING 3 12 4.00 TRANS 4 3.2 406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.8					 	·		· · · · · · · · · · · · · · · · · · ·		1.61
406+94 393+74 WB DRIVING 3 12 4.00 TRANS 4 3.2 393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.8					 					3.22
393+74 380+54 WB DRIVING 3 12 4.00 TRANS 1 0.6					 					3.22
					 					0.81
10 12 400 ITANO 2 1.0					 					1.61
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STA	TION	DIRECTION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT REPAIR, MISC.: PARTIAL DEPTH
BEGIN	END			FT	FT	SQ YD		EA	CU YD**
393+74	406+94	EB	DRIVING	3	12	4.00	TRANS	2	1.28
393+74	406+94	EB	PASSING	3	12	4.00	TRANS	2	1.28
406+94	420+14	EB	DRIVING	3	12	4.00	TRANS	2	1,28
406+94	420+14	EB	PASSING	3	12	4.00	TRANS	2	1.28
406+94	420+14	EB	DRIVING	6	12	8.00	TRANS	2	2.56
406+94	420+14	EB	PASSING	6	12	8.00	TRANS	2	2.56
420+14	433+34	EB	DRIVING	3	12	4.00	TRANS	1	0.64
420+14	433+34	EB	PASSING	3	12	4.00	TRANS	1	0.64
420+14	433+34	EB	PASSING	6	12	8.00	TRANS	1	1.28
433+34	446+54	EΒ	DRIVING	3	12	4.00	TRANS	2	1.28
446+54	459+74	EB	PASSING	3	12	4.00	TRANS	4	2.56
446+54	459+74	EB	DRIVING	3	12	4.00	TRANS	2	1.28
446+54	459+74	EB	DRIVING	6	12	8.00	TRANS	1	1.28
459+74	472+94	EB	DRIVING	3	12	4.00	TRANS	4	2.56
459+74	472+94	EB	PASSING	3	12	4.00	TRANS	3	1.92
472+94	486+14	EB	DRIVING	3	12	4.00	TRANS	5	3.19
472+94	486+14	EB	PASSING	3	12	4.00	TRANS	3	1.92
486+14	499+34	EB	DRIVING	3	12	4.00	TRANS	2	1.28
486+14	499+34	EB	PASSING	3	12	4.00	TRANS	5	3.19
499+34	512+54	EB	DRIVING	3	12	4.00	TRANS	1	0.64
499+34	512+54	EB	DRIVING	6	12	8.00	TRANS	2	2.56
499+34	512+54	EB	PASSING	6	12	8.00	TRANS	2	2.56
512+54	525+74	EB	DRIVING	3	12	4.00	TRANS	3	1.92
512+54	525+74	EB	PASSING	3	12	4.00	TRANS	1	0.64
512+54	525+74	EB	PASSING	6	12	8.00	TRANS	1	1.28
525+74	538+94	EB	DRIVING	3	12	4.00	TRANS	6	3.83
525+74	538+94	EB	PASSING	3	12	4.00	TRANS	2	1.28
538+94	552+14	EB	DRIVING	3	12	4.00	TRANS	6	3.83
538+94	552+14	EB	PASSING	3	12	4.00	TRANS	2	1.28
552+14	565+34	EB	DRIVING	3	12	4.00	TRANS	3	1.92
565+34	578+54	EB	DRIVING	3	12	4.00	TRANS	7	4.47
565+34	578+54	EB	PASSING	3	12	4.00	TRANS	4	2.56
578+54	591+74	EB	DRIVING	3	12	4.00	TRANS	4	2.56
578+54	591+74	EB	PASSING	3	12	4.00	TRANS	2	1.28
578+54	591+74	EB	71 SB DECEL	3	12	4.00	TRANS	2	1.28
591+74	604+94	EB	DRIVING	3	12	4.00	TRANS	2	1.28
591+74	604+94	EB	PASSING	3	12	4.00	TRANS	2	1.28
				l –	- 4-44		110300		1.20
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*Values are calculated using an asphalt depth of 7.25 inches.

Note: The quantities on this sheet are for informational purposes only.

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**Values are calculated using an asphalt depth of 5.75 inches.

RIC/ASD-30-13.18/0.00 RIC-42-13.74

PAVEMENT REPAIR QUANTITIES

45

	MAINLINE PARTIAL DEPTH PAVEMENT REPAIRS																
STA	TION	DIRECTION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT REPAIR, S MISC.: PARTIAL DEPTH	STA	ATION	DIRECTION	LANE	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REF
BEGIN	END			FT	FT	SQ YD		EA	CU YD*	BEGIN	END	1		FT	FT	SQ YD	
304+94	618+14	EB	DRIVING	3	12	4.00	TRANS	2	1.28					+ -			
18+14	631+34	EB	DRIVING	3	12	4.00	TRANS	1	0.64			<u> </u>		+			
18+14	631+34	EB	PASSING	3	12	4.00	TRANS	1	0.64		<u>†</u>						
31+34	644+54	EB	DRIVING	3	12	4.00	TRANS	5	3.19		<u> </u>						
31+34	644+54	EB	PASSING	3	12	4.00	TRANS	1	0.64								
14+54	657+74	EB	DRIVING	3	12	4.00	TRANS	1	0.64			1		<u> </u>			
4+54	657+74	EΒ	PASSING	6	12	8.00	TRANS	1	1.28					1			
7+74	670+94	EB	DRIVING	3	12	4.00	TRANS	2	1.28					1			
7+74	670+94	EB	PASSING	3	12	4.00	TRANS	2	1.28								
0+94	684+14	EB	DRIVING	3	12	4.00	TRANS	1	0.64								
0+94	684+14	EB	PASSING	3	12	4.00	TRANS	1	0.64								
4+14	697+34	EB	DRIVING	3	12	4.00	TRANS	2	1.28								
4+14	697+34	EB	PASSING	3	12	4.00	TRANS	3	1.92								
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	L	1	<u> </u>		ı	SUBTO	I	23	15	<u> </u>							ALS THIS COL
		 ,	alt depth of 5.75 inches.			300101	ALS THIS COLUMN	40	10							7	TOTALS THIS F

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PAVEMENT REPAIR, MISC.: PARTIAL DEPTH

REPAIR QUANTITIES

PAVEMENT

RIC/ASD-30-13.18/0.00 RIC-42-13.74

EA CU YD

NUMBER OF REPAIRS

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		1					254	255	25 5	301	Γ
ROAD	RAMP	WIDTH	LENGTH	INDIVIDUAL REPAIR AREA	TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT PLANING, ASPHALT CONCRETE, 7.25"	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS MS, AS PEH PLAN	FULL DEPTH PAVEMENT SAWING	ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	
		FT	FT	SQ YD		EA	SQ YD	SQ YD	FT	CU YD*	Γ
KOOGLE ROAD	A DECEL	6	12	8.00	TRANSVERSE	1	8.00	8.00	30.00	1.61	
KOOGLE ROAD	A DECEL	8	12	10.67	TRANSVERSE	1	10.67	10.67	32.00	2.15	Ĺ
KOOGLE ROAD	B ACCEL	6	8	5.33	TRANSVERSE	1	5.33	5.33	22.00	1.07	Γ
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	RAMP PARTIA	L DEF	TH P.	AVEMENT	REPAIRS		
ROAD	WIDTH LENGTH INDIVIDUAL REPAIR AREA		TYPE OF REPAIR	NUMBER OF REPAIRS	PAVEMENT REPAIR, MISC.: NO PARTIAL DEPTH		
		FT	FT	SQ YD		EA	CU YD**
KOOGLE ROAD	A DECEL	3	12	4.00	TRANSVERSE	1	0.81
KOOGLE ROAD	A DECEL	3	16	5.33	TRANSVERSE	2	2.15
KOOGLE ROAD	Α	256	6	170.67	LONGITUDINAL	1	5.93
KOOGLE ROAD	Ð	3	16	5.33	TRANSVERSE	2	0.22
KOOGLE ROAD	В	5	16	8.89	TRANSVERSE	2	0.25
KOOGLE ROAD	В	3	16	5.33	TRANSVERSE	1	0.07
KOOGLE ROAD	8	53	7	41.22	LONGITUDINAL	1	0.57
KOOGLE ROAD	B ACCEL	267	3	89.00	LONGITUDINAL	1	17.92
KOOGLE ROAD	B ACCEL	3	12	4.00	TRANSVERSE	1	0.81
KOOGLE ROAD	B ACCEL	6	8	5.33	TRANSVERSE	1	1.08
REED ROAD	С	455	10	505.56	LONGITUDINAL	1	24.58
REED ROAD	D	169	11	206.56	LONGITUDINAL	1	2.87
REED ROAD	Α	280	9	280.00	LONGITUDINAL	1	9.72
REED ROAD	В	271	10	301.11	LONGITUDINAL	1	12.55
LAVER ROAD	A	3	16	5.33	TRANSVERSE	1	0.26
SR42	A DECEL	3	12	4.00	TRANSVERSE	5	3.19
SR42	U (MIDDLE)	3	12	4.00	TRANSVERSE	1	0.19
SR42	UR	3	12	4.00	TRANSVERSE	1	0.31
SR42	UR ACCEL	3	16	5.33	TRANSVERSE	1	0.85
SR42	B DECEL	3	12	4.00	TRANSVERSE	2	1.61
SR42	TR	3	16	5.33	TRANSVERSE	5	2.59
SR42	TL	3	16	5.33	TRANSVERSE	14	7.26
SR42	TL	6	16	10.67	TRANSVERSE	3	3.11
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**Values are calculated using various asphalt depths

PAVEMENT REPAIR QUANTITIES

BIC/ASD-30-13.18/0.00

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TOTALS

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PAVEMENT REPAIR QUANTITIES

RIC/ASD-30-13.18/0.00 RIC-42-13.74

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					ĕ				SPECIAL			
STATION/	LOCATION	LENGTH	WIDTH	DEPTH	INDIVIDUAL REPAIR AREA	DIRECTION	SIDE	NUMBER OF REPAIRS	BERM REPAIR, FLEXIBLE		STATION	/L
BEGIN	END	FT	FT	IN	SQ YD	1		EA	CU YD		BEGIN	T
695+42	670+00	2542	5	8	1412.22	WESTBOUND	OUTSIDE	1	313.83		SR 42 i	R
676+09	668+85	724	5	8	402.22	WESTBOUND	OUTSIDE	1	89.38		SR 42 I	R
631+24	628+03	321	3	6	107.00	WESTBOUND	OUTSIDE	1	17.83			T
599+75	596+31	344	2	4	76.44	WESTBOUND	OUTSIDE	1	8.49			Ι
576+06	575+39	67	3	6	22.33	WESTBOUND	OUTSIDE	1	3.72			Τ
695+42	670+00	2542	4	8	1129.78	WESTBOUND	INSIDE	1	251.06]		T
676+09	668+89	720	4	8	320.00	WESTBOUND	INSIDE	1	71.11			Ţ
567+79	572+82	503	7.5	8	419.17	EASTBOUND	OUTSIDE	1	93.15			Ι
572+92	575+22	230	2	4	51.11	EASTBOUND	OUTSIDE	1	5.68			T
608+48	611+60	312	2	8	69.33	EASTBOUND	OUTSIDE	1	15.41			T
644+20	645+07	87	5	6	48.33	EASTBOUND	OUTSIDE	1	8.06]		Τ
645+63	648+30	267	4	6	118.67	EASTBOUND	OUTSIDE	1	19.78	j		Ţ
656+32	658+29	197	4	6	87.56	EASTBOUND	OUTSIDE	1	14.59			T
661+51	663+71	220	4	4	97.78	EASTBOUND	OUTSIDE	1	10.86		1	I
666+69	676+09	940	5	8	522.22	EASTBOUND	OUTSIDE	1	116.05			
670±00	694+21	2421	5	8	1345.00	EASTBOUND	OUTSIDE	11	298.89			
	RD RAMP C	105	5	8	58.33	-	RIGHT SIDE	1	12.96]		1
***************************************	RD RAMP C	152	5	4	84.44	-	RIGHT SIDE	1	9.38]		
	RD RAMP A	90	4	6	40.00	-	RIGHT SIDE	1	6.67			
	RD RAMP A	276	4	6	122.67	•	RIGHT SIDE	1	20.44			┙
	RD RAMP B	55	3	6	18.33	-	RIGHT SIDE	11	3.06	l		┙
	RD RAMP B	112	2	6	24.89	-	RIGHT SIDE	1	4.15	ļ		╛
	D RAMP C	361	6	6	240.67	-	RIGHT SIDE	1	40.11			1
	D RAMP D	338	4	6	150.22	-	RIGHT SIDE	1	25.04			1
	D RAMP A	291	3	6	97.00	-	RIGHT SIDE	11	16.17			4
	O RAMP A	101	3	6	33.67	-	RIGHT SIDE	11	5.61			4
	D RAMP B	76	4	6	33.78	•	RIGHT SIDE	1	5.63			4
	D RAMP B D RAMP C	280	3	6	93.33	•	RIGHT SIDE	1	15.56			4
	D RAMP D	266	4	6	118.22	-	RIGHT SIDE	1	19.70			+
	D RAMP A	258	3	6	86.00	-	RIGHT SIDE	1	14.33			+
	D RAMP B	377	3	6	125.67	-	RIGHT SIDE	1	20.94			+
		230	4	6	102.22	-	RIGHT SIDE	1	17.04			+
	AMP B ACCEL	528	3	6	176.00	-	RIGHT SIDE	1	29.33			4
	RAMP A	65	3	6	21.67	-	RIGHT SIDE	1	3.61			1
	AMP UR	294	4	6	130.67	-	RIGHT SIDE	1	21.78			╛
	RAMP UR	463	4	6	205.78		RIGHT SIDE	1	34.30			ſ
SR42 F	RAMP B		6	6	0.00	-	RIGHT SIDE	1	0.00			T
SR42 R	RAMP TR	70	3	6	23.33	_	RIGHT SIDE	1	3.89	1		1
SR42 R	RAMP TR	385	6	6	256.67	_	RIGHT SIDE	1	42.78			†
······································	AMDII	200	 		200.00		DIGUT O'DE	- 	1101	i	 	+

STATION/	LOCATION	LENGTH	WIDTH	DEPTH	INDIVIDUAL REPAIR AREA	TION	щ	NUMBER OF REPAIRS	EPAIR, 68 BLE 1934
						DIRECTION	SIDE		BERM REPAIR, FLEXIBLE
BEGIN	END	FT	FT	IN	SQ YD			EΑ	CU YD
SR 42 R	AMP TL	400	3	6	133.33		RIGHT SIDE	11	22.22
SR 42 R	AMP TL	223	6	6	148.67		RIGHT SIDE	1	24.78
									
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						TOTALS	THIS PAGE	43	1797

Note: The quantities on this sheet are for informational purposes only.

200

660

4

2

6

88.89

146.67

RIGHT SIDE

RIGHT SIDE

TOTALS

14.81

24.44

1750

41

I:\projects\79352\roadway\sheets\79352GQ002.xls

SR42 RAMP UL

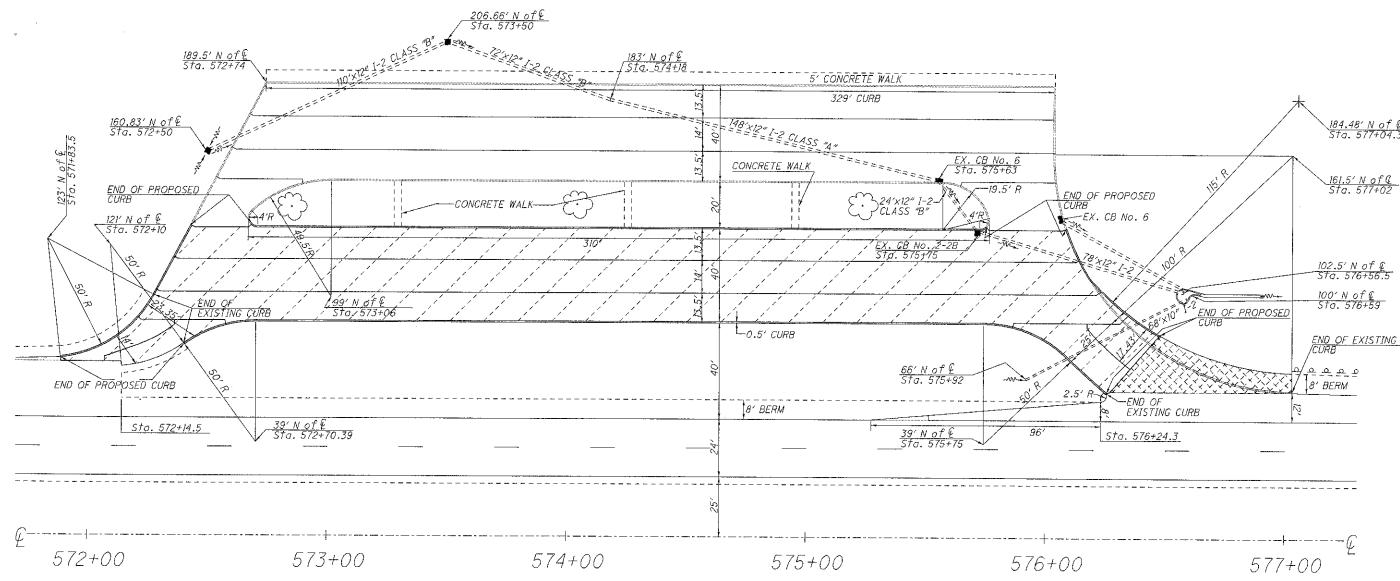
SR42 RAMP UL

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EA EASTBOUND Curb Replace Parking are

RIC / ASD-30-13.18 / 0.00 RIC-42-13.74

(116)



ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
202	PAVEMENT REMOVED	1877	SQ YD
202	CURB REMOVED	864	FT
203	EXCAVATION (6")	312	CU YD
254	PAVEMENT PLANING, ASPHALT CONCRETE (2.25")	1877	SQ YD
304	AGGREGATE BASE (6")	312	CU YD
452	9" NON-REINFORCED CONCRETE PAVEMENT	1877	SQ YD
604	CATCH BASIN ADJUSTED TO GRADE	1	EACH
609	CURB, TYPE 2-A	849	FT

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY.

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LEGEND

ITEM 202 PAVEMENT REMOVED

ITEM 609 CURB, TYPE 2-A

SEE PAVEMENT REPAIR SHEETS FOR QUANTITIES

NOTE: EXISTING CATCH BASINS TO REMAIN IN PLACE.
WHEN CONTRACTOR PLANES AND PAVES CAR
PARKING AREA, THE CONTRACTOR SHALL
TRANSITION THE PAVING TO MEET THE PROPOSED
CONCRETE PAVEMENT. THE EXISTINNG CONCRETE
PAVEMENT TO BE REMOVED IS 9" REINFORCED
CONCRETE.



ITEM 202 - ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE E-98 ITEM 202 - ANCHOR ASSEMBLY REMOVED FOR REUSE. TYPE T

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 WITH GRANULAR MATERIAL 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 SHALL BE 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 203 - EMBANKMENT, AS PER PLAN

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

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 606 - GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING GUARDRAIL, TYPE 5

WHERE DESIGNATED ON THE PLAN, THE EXISTING GUARDRAIL, TYPE 5 SHALL BE RAISED OR LOWERED 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 REATTACHED TO THE POSTS USING NEW POST BOLTS. FOR RAIL THAT REQUIRES BEING LOWERED THE POSTS SHALL BE CUT OR TRIMMED AND THE TOPS SHALL BE TREATED.

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 EXISTING POSTS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR ITEM 606, GUARDRAIL MISC.: ADJUST HEIGHT, EXISTING GUARDRAIL, TYPE 5, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

<u>ITEM 606 - GUARDRAIL, MISC.: GUARDRAIL RAIL ELEMENT</u>

THIS ITEM SHALL BE USED IN CONJUNCTION WITH ITEMS 606 - GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL, AND ITEM 606 - GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL, AND ITEM 606 - GUARDRAIL REBUILT, TYPE 5, AND AS DIRECTED BY THE ENGINEER. IT SHALL CONSIST OF REPLACING EXISTING GUARDRAIL RAIL ELEMENTS DEEMED BY THE ENGINEER TO BE INSUFFICIENT. THE RAIL ELEMENTS SHALL BE OF THE SAME TYPE, AND SIZE OF THE EXISTING GUARDRAIL RUN. THEY SHALL BE PLACED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING GR-1.1.

SUGGESTED SEQUENCE OF GUARDRAIL WORK

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

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.

ITEM 606 - ANCHOR ASSEMBLY, TYPE B-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE SRT-350, GUARDRAIL END TERMINAL AS MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330.545.4373).

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	SRT-350 (12.5, 8 Post) Slotted Rail Terminal Post Layout and Erection Details	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

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.

THE FACE OF THE TYPE B-98 IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19: APPROXIMATELY 36 IN. WIDE x 12 IN. HIGH (915 mm W x 305 mm H) FOR THE SRT-350 AND 14 IN. WIDE x 20 IN. HIGH (350 mm W x 500 mm H) FOR THE FLEAT-350.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE B-98, 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, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

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
SS265M	ET-2000 (1997) PLAN, ELEVATION AND SECTIONS	6/20/97	3/6/98
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

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

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18" (450mm X 450mm).

THE CONTRACTOR MAY USE A SALVAGED EXTRUDER WHEN ASSEMBLING THE ITEM 606 ANCHOR ASSEMBLY, TYPE E-98. 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 MANUFACTORER'S INSTRUCTION REGARDING THE INSTRUCTION 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 SHOULD FER

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-98, 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 THE MANUFACTURER.

GUARDRAIL REBUILT, TYPE 5, AS PER PLAN

THE POSTS SHALL BE 9 FEET LONG.

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.

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ITEM 606 - ANCHOR ASSEMBLY REBUILT, TYPE E-98

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:

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

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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
SS265M	SRT-350 (12.5, 8 Post) Slotted Rail Terminal Post Layout and Erection Details	6/20/97	3/6/98
SS142	Slotted Rail Terminal SRT-350 Post Layout and Erection Details (12.5, 9 Post)	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

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	FOUNDATION TUBES SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4	12/11/97	3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" x 18" (450mm X 450mm).

THE CONTRACTOR MAY USE A SALVAGED EXTRUDER WHEN ASSEMBLING THE ITEM 606 ANCHOR ASSEMBLY, TYPE E-98. 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 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 REBUILT, TYPE E-98, 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 THE MANUFACTURED. REQUIRED BY THE MANUFACTURER.

ITEM 606 - IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL)]

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE FOLLOWING IMPACT ATTENUATORS, 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 IMPACT ATTENUATORS WITH THE FOLLOWING RESTRICTIONS: IMPACT ATTENUATOR SHALL BE DESIGNED FOR TL-2, 35MPH, 36" WIDTH, MAXIMUM

1. A QUADGUARD IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS,INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750) AND DISTRIBUTED BY BALDWIN AND SOURS, INC. (614-851-8800). 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./REV. APPROVAL

DWG. NO.	DRAWING NAME	DATE .	DATE
QG2TSCVR	~U QUADGUARD SYSTEM TENSION STRUT BAG		3/6/98
QG2CBCVR	2-U QUADGUARD SYSTEM CONCRETE BACKUP		9 3/6/98
QF2TSCVR	-U QUADGUARD SYSTEM & 90" TENSION STRUT		· · · · · · · · · · · · · · · · · · ·
QF2CBCVR	-U QUADGUARD SYSTEM & 90" CONCRETE BAC		
35-40-20	DEFLECTOR ASSEMBLY CONCRETE BACKUP RE OG	•	
3540031	OUADGUARD SYSTEM BACKUP ASSEMBLY, TS,	3/19/99 QG Rev. F	8/27/99
35-40-08	QUADGUARD SYSTEM CONCRETE BACKUP, Q ON GRADE & ON EXIS CONCRETE STRUCTURE	TING 10/14/97	
35-40-21	TRANSITION ASSEMBLY QUAD-BEAM TO W-BEA		8/27/99 8/27/99
<i>35-40-22</i>	TRANSITION ASSEMBLY QUAD-BEAM TO THRIE-		8/27/99 8/27/99
35-40-15	QUADGUARD SYSTEM EN SHOE ASSSEMBLY, QG		8/27/99
3540211	OG TRANSITION ASSEME OUAD-BEAM TO W-BEAM-WIDE	BLY 8/29/97 Rev. D 8/29/97 Rev. D	8/27/99
3540221	QG TRANSITION ASSEM QUAD-BEAM TO THRIE-BEAM-WIDE	BLY 8/29/97 Rev. D 8/29/97 Rev. D	
3540150	OUADGUARD TRANSITIC VERTICAL CONCRETE BA		8/27/99
3540042-0	0000 NOSE ASSEMBLY	NARROW 3/19/0: Rev. B	
3540043-0	0000 NOSE ASSEMBLY N	YIDE 4/6/09	10/16/09

2. 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. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICA- TIONS AS

DWG. NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVA DATE
SYSTEM CAPACITY	UNIVERSAL TAU-II CRASH CUSHION SYSTEM CONFIGURATION CHART	10/6/04 V5	10/16/04
A040416	UNIVERSAL TAU-II PARTS	LIST 4/22/	04 10/16/0
A040420	UNIVERSAL TAU-II FOUNDATION, FLUSH MOU BACKSTOP - PCC PAD		10/16/04
A040105	UNIVERSAL TAU-II FOUNDATION, PCB BACKSTO (REFERENCED ON A040420)	1/07/04 DP	10/16/04
A040108	UNIVERSAL TAU-II FOUNDATION, WIDE FLANC	1/07/04 GE BACKSTOP	
A040113	FOUNDATION SPECIFICATION (REFERENCED ON A040420 A040108)		
B010537	COMPACT BACKSTOP, TAU	-II 3/25/02	10/16/0
B040219	FLUSH MOUNT BACKSTOP ASSEMBLY	4/19/04	10/16/04
B040239	APPLICATION, FLUSH MOU BACKSTOP (TYPICAL FOR F SYSTEM, 60 & 70 MPH, UF HAZARD WIDTH, CONNECTED	PARALLEL ' TO 36" WIDE	Ξ
B033004	WIDE TAU-II 60 MPH, 60" BACKSTOP (TYPICAL FO 60 MPH COMBINATION SYST	PR	10/16/0
B033101	WIDE TAU-II 70 MPH, 66" BACKSTOP (TYPICAL FO 70 MPH COMBINATION SYST		10/16/04
B033009	WIDE TAU-II 60 MPH, 90" BACKSTOP (TYPICAL I 60 MPH FLARED SYSTEM)	11/26/03 FOR	10/16/0
B033105	WIDE TAU-II 70 MPH, 90" BACKSTOP (TYPICAL FO 70 MPH FLARED SYSTEM)	2/17/04 PR	10/16/04
30 THOCOV	ACCOUNTY DELIVERY TO	0.45.405	10 (10 (2.5

30T110FCY ASSEMBLY DRAWING FOR 9/15/05 10/16/06

30" WIDE, 70 MPH PARALLEL UNIT



3. THE TRINITY INDUSTRIES, INC. TRINITY ATTENUATING CRASH CUSHION DISTRIBUTED BY TRINITY INDUSTRIES, INC 1170 N. STATE ST., GIRARD, OHIO 44420, TELEPHONE: (800) 321-2755. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFI- CATIONS AS DETAILED ON THE FOLLOWING SHOP DRAWINGS:

DWG. A	O. DRAWING NAME	DRAWING DATE
SS455	TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION, AND SECTIONS	11/02/99
SS456	TRACC TRANSITION TO VERTICAL CONCRETE WALL PLAN, ELEVATION AND SECTIONS	9/07/00
SS497	WIDETRACC - DOUBLE FLARE WING EXTENSIONS	11/22/02
SS699	WIDETRACC & TRACC ASSEMBLED MODULAR BASE UNIT	4/02/03
SS1000	CRASH CUSHION ATTENUATING TERMINAL PLAN, ELEVATION, AND SECTION ASSEMBLED UNIT, BASE AND RIP PLATE SCHEMATIC	3/30/05
SS1001	CRASH CUSHION ATTENUATING TERMINAL ASSEMBLED BASE UNIT	4/22/05
SS1002	CRASH CUSHION ATTENUATING TERMINAL PLAN, ELEVATIONS, & SECTIONS SHOP ASSEMBLY DETAILS (2 SHEETS)	5/11/05
SS1003	CRASH CUSHION ATTENUATING TERMINAL PLAN, ELEVATIONS AND SECTIONS UNIDIRECTIONAL, DIRECT ATTACHMENT (2 SHEETS)	4/25/05
SS1004	SHORTRACC CRASH CUSHION ATTENUATING TERMINAL ASSEMBLED BASE UNIT	5/16/05
SS1005	SHORTRACC CRASH CUSHION ATTENUATING TERMINAL SHOP ASSEMBLY DETAILS (2 SHEETS)	5/24/05
SS1006	SHORTRACC CRASH CUSHION ATTENUATING TERMINAL UNIDIRECTIC DIRECT ATTACHMENT	5/24/05 NAL,
SS1007	FASTRACC CRASH CUSHION ATTENUATING TERMINAL ASSEMBLED BASE UNIT	6/08/05
\$\$100 <i>8</i>	FASTRACC CRASH CUSHION ATTENUATING TERMINAL SHOP ASSEMBLY DETAILS (2 SHEETS)	6/09/05
SS1009	FASTRACC CRASH CUSHION ATTENUATING TERMINAL UNIDIRECTIC DIRECT ATTACHMENT	6/10/05 NAL,
SS1010	TRACC CRASH CUSHION ATTENUATING TERMINAL 22' CONCRETE FOUNDATION	
SS1013	SHORTRACC CRASH CUSHION ATTENUATING TERMINAL 15'	4/04/05

CONCRETE FOUNDATION PLAN

SS1018 58" WIDETRAC DOUBLE FLARE PLAN, 8/08/05 ELEVATION, & SECTIONS SHOP ASSEMBLY DETAILS (3 SHEETS)

SS1019 58" WIDETRAC DOUBLE FLARE PLAN. 8/12/05 ELEVATION, & SECTIONS UNIDIRECTIONAL, DIRECT ATTACHMENT

4. THE SCI PRODUCTS, INC. SMART CUSHION IMPACT ATTENUATOR DISTRIBUTED BY SCI PRODUCTS, INC. 2500 PRODUCTION DRIVE ST. CHARLES, IL 60174-9081 INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING SHOP DRAWINGS:

FOLLOWING SHOP	- DRAWINGS.	
DWG. NO.	DRAWING NAME	DRAWING DATE
SCI-70GM	TL2 - 35" WIDE BY 13.5' LONG TEST LEVEL 2 U	1/14/05 INIT
SCI-100GM	TL3 - 38" WIDE BY 21.5 LONG TEST LEVEL 3 L	1/14/05 UNIT
TL2 FOUNDATION	N TL2 FOUNDATION	1/14/05
TL3 FOUNDATION	N TL3 FOUNDATION	1/14/05
TRANSITION	24" CONCRETE BLOCK TRANSITION	1/14/05
TRANSITION	WIDE HAZARD TRANSITION	1/14/05

FROM 41" TO 133"

WHEN BI-DIRECTIONAL DESIGNS ARE SPECIFIED, THE CON- TRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 2 [(SPEED (IN MPH), HAZARD WIDTH (IN INCHES)). (UNIDIRECTIONAL OR BIDIRECTIONAL)], EACH, AND SHALL INCLUDE ALL LABOR. TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS/BACKSTOPS, TRANSITIONS, HARDWARE AND GRADING, NOT SEPARATELY

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 209, LINEAR GRADING, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING ITEM 448, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG 64-22, AS PER PLAN.

ITEM 209, LINEAR GRADING, AS PER PLAN SHALL CONSIST OF EXCAVATING EXISTING MATERIAL TO THE DEPTH AND WIDTH AS PER THE LIMITS SHOWN

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIEVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17. BACKFILL AREAS GRADED IN EXCESS OF THE DEPTH SHOWN ON THE DETAIL WITH ITEM 617 COMPACTED AGGREGATE AT NO EXPENSE TO THE DEPARTMENT.

COMPACT THE SUBGRADE USING EITHER HAND OR MECHANICAL METHODS IN ORDER TO PROVIDE A FIRM SUBBASE TO THE SATISFATION OF THE ENGINEER. THE INTENT OF THE FIRM SUBBASE IS TO BE COMPACTED SUCH THAT IT WILL BE SUITABLE FOR THE PLACEMENT AND COMPACTION OF THE ASPHALT MATERIAL.

THE REMOVED MATERIAL SHALL BE REPLACED WITH ITEM 448, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL. PG 64-22, AS PER PLAN.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

METHOD A (GUARDRAIL ALREADY IN PLACE):

1. PERFORM THE LINEAR GRADING, AS PER PLAN. 2. PLACE AND COMPACT ITEM 448. 3. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

1. REMOVE THE GUARDRAIL. 2. PERFORM THE LINEAR GRADING, AS PER PLAN. 3. PLACE ITEM 448.

4. BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED.

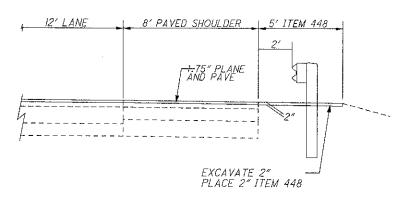
5. CONSTRUCT THE GUARDRAIL POSTS AND RAIL

6. PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN WATER AWAY FROM THE POSTS.

FOR GUARDRAIL THAT IS NOT ORIGINALLY INTENDED TO BE REPLACED OR RECONSTRUCTED AND IS TO REMAIN, THE CONTRACTOR MAY USE METHOD B IN ORDER TO COMPLETE THE INTENT OF THE WORK. PROVIDE NEW HARDWARE AND REPLACE BLOCKOUTS AS NEEDED. THE COST TO REMOVE AND RE-ERECT THE GUARDRAIL WILL BE CONSIDERED INCIDENTAL IN THE COST OF ITEM 448, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG64-22, AS PER PLAN.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE 1, UNDER GUARDRAIL, PG 64-22, AS PER PLAN.

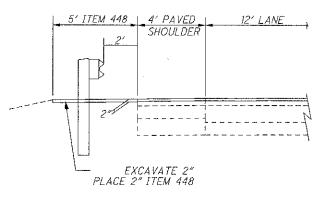
PAVING UNDER GUARDRAIL MAINLINE US 30 OUTSIDE TYPICAL SECTION





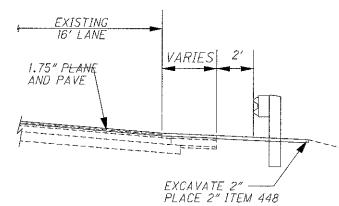
PAYING UNDER GUARDRAIL (CONTINUED)

PAVING UNDER GUARDRAIL MAINLINE US 30 INSIDE TYPICAL SECTION



NOTE: AT GUARDRAIL RUNS THAT ARE PROTECTING PIERS IN THE MEDIAN OF US30, THE CONTRACTOR SHALL PAVE UNDER GUARDRAIL AT 5 FT WIDE.

PAVING UNDER GAURDRAIL US42, LAVER RD, REED RD, KOOGLE RD. TYPICAL SECTION



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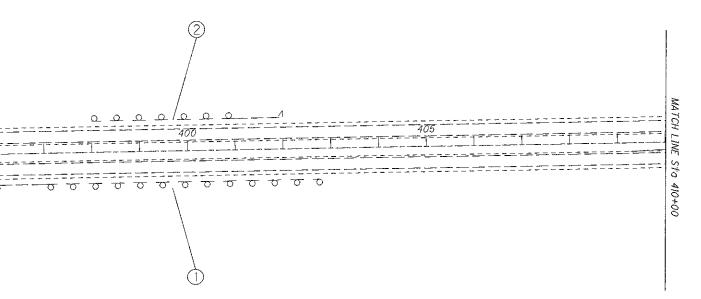
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		GUARDRAIL QUANTITIES CF											CALC BY																				
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BARRIER REFLECTOR, TYPE A

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BALLOON

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OR.

BARRIER REFLECT TYPE B

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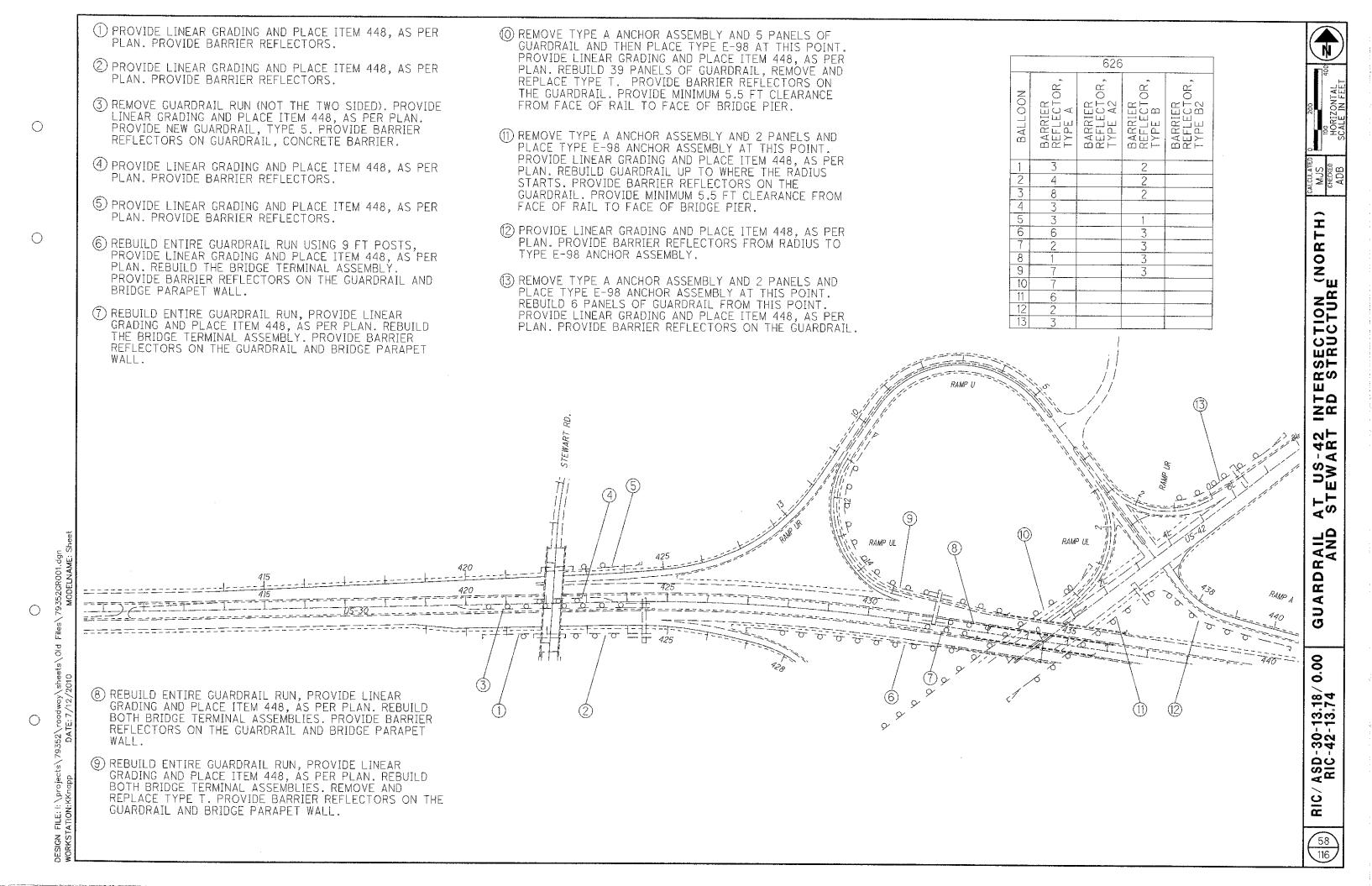
BARRIER REFLECT TYPE B2

OR,

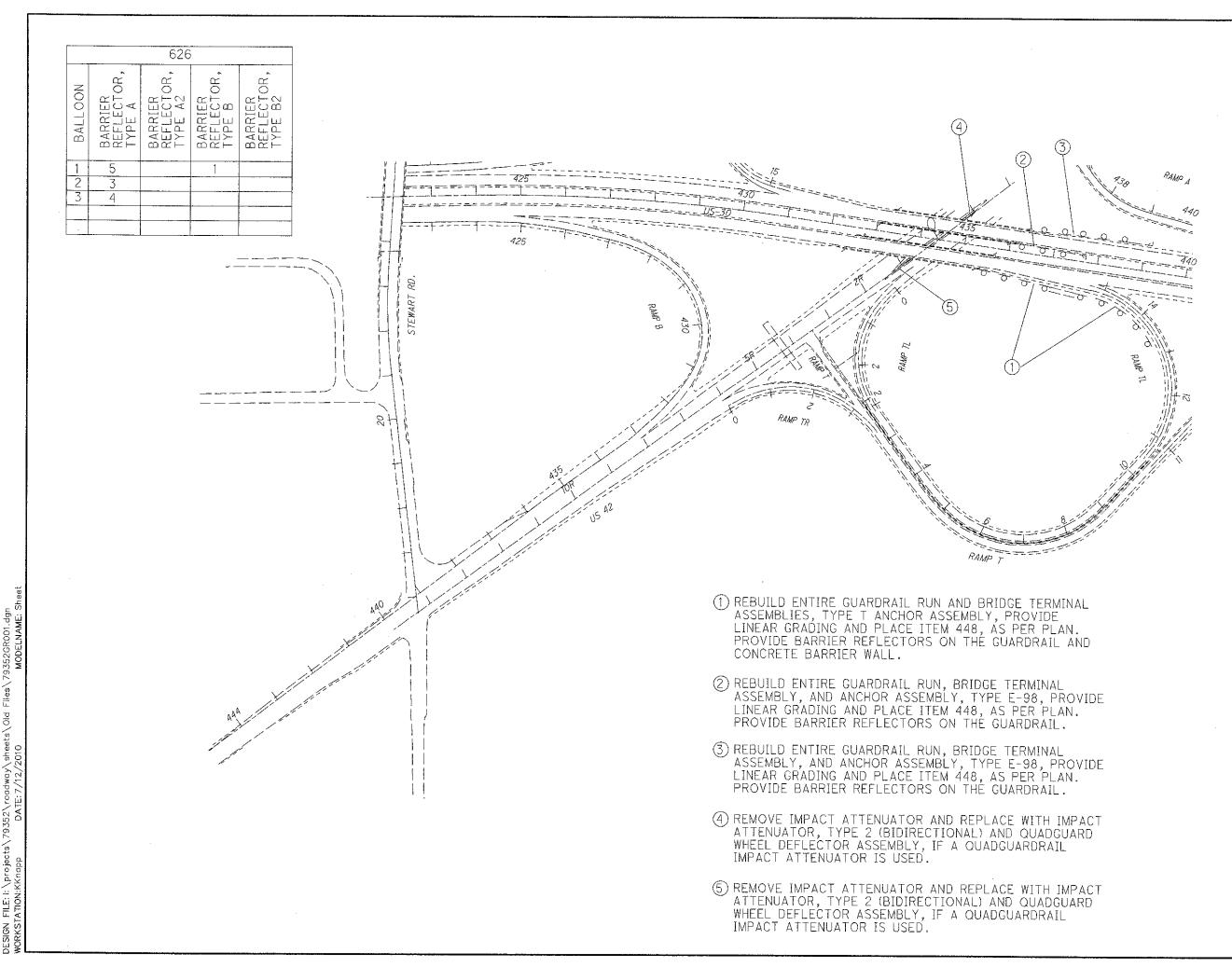
BARRIER REFLECT(TYPE A2

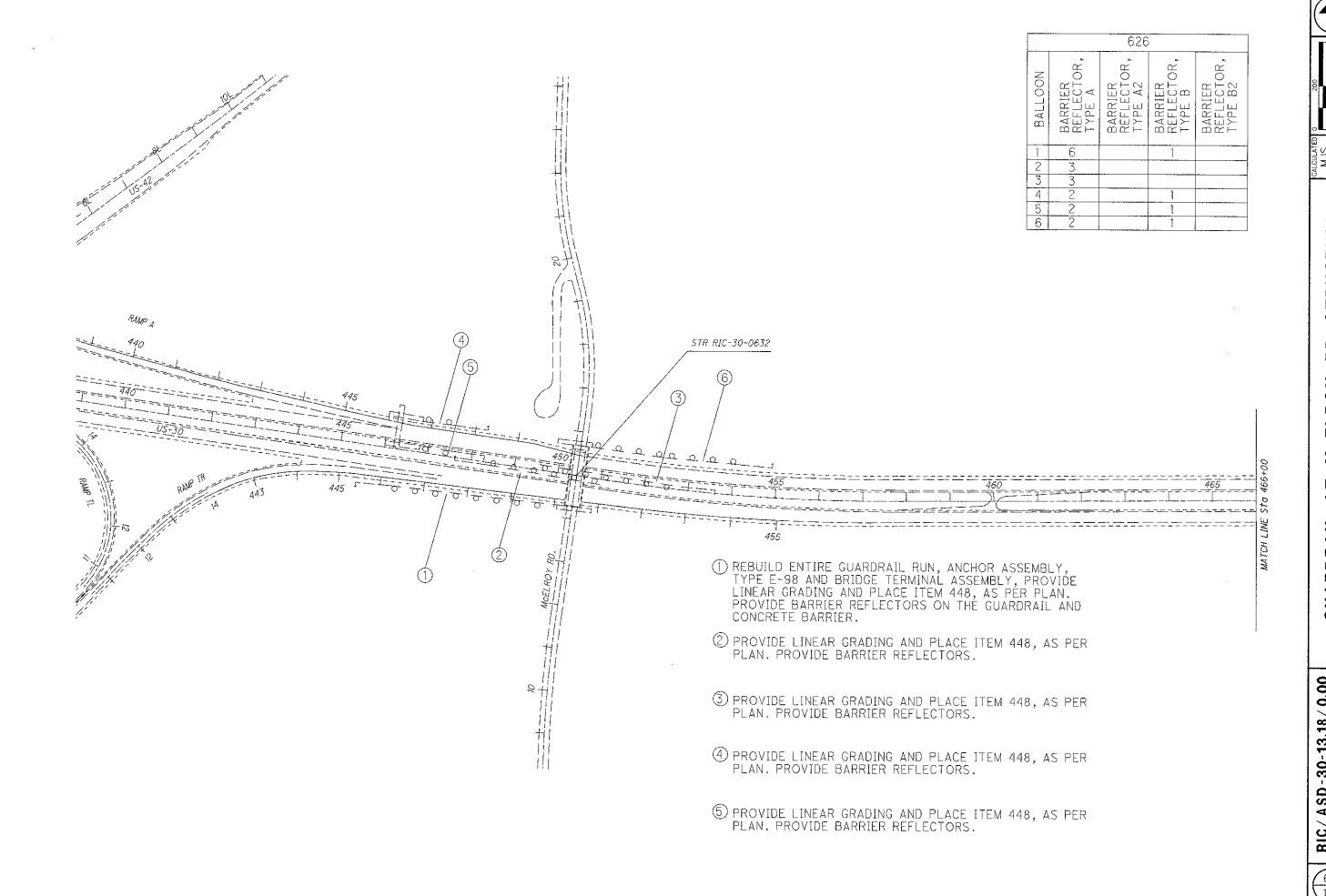
- 1 REMOVE ENTIRE GUARDRAIL RUN AND EXISTING TYPE T AND TYPE E ANCHOR ASSEMBLIES. PROVIDE LINEAR GRADING AND PLACE ITEM 448 ASPHALT CONCRETE, AS PER PLAN. REPLACE OLD GUARDRAIL AND ANCHOR ASSEMBLIES WITH NEW GUARDRAIL, TYPE 5 AND NEW TYPE T AND TYPE E-98 ANCHOR ASSEMBLIES RESPECTIVELY. PROVIDE BARRIER REFLECTORS.
- 2 PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS.

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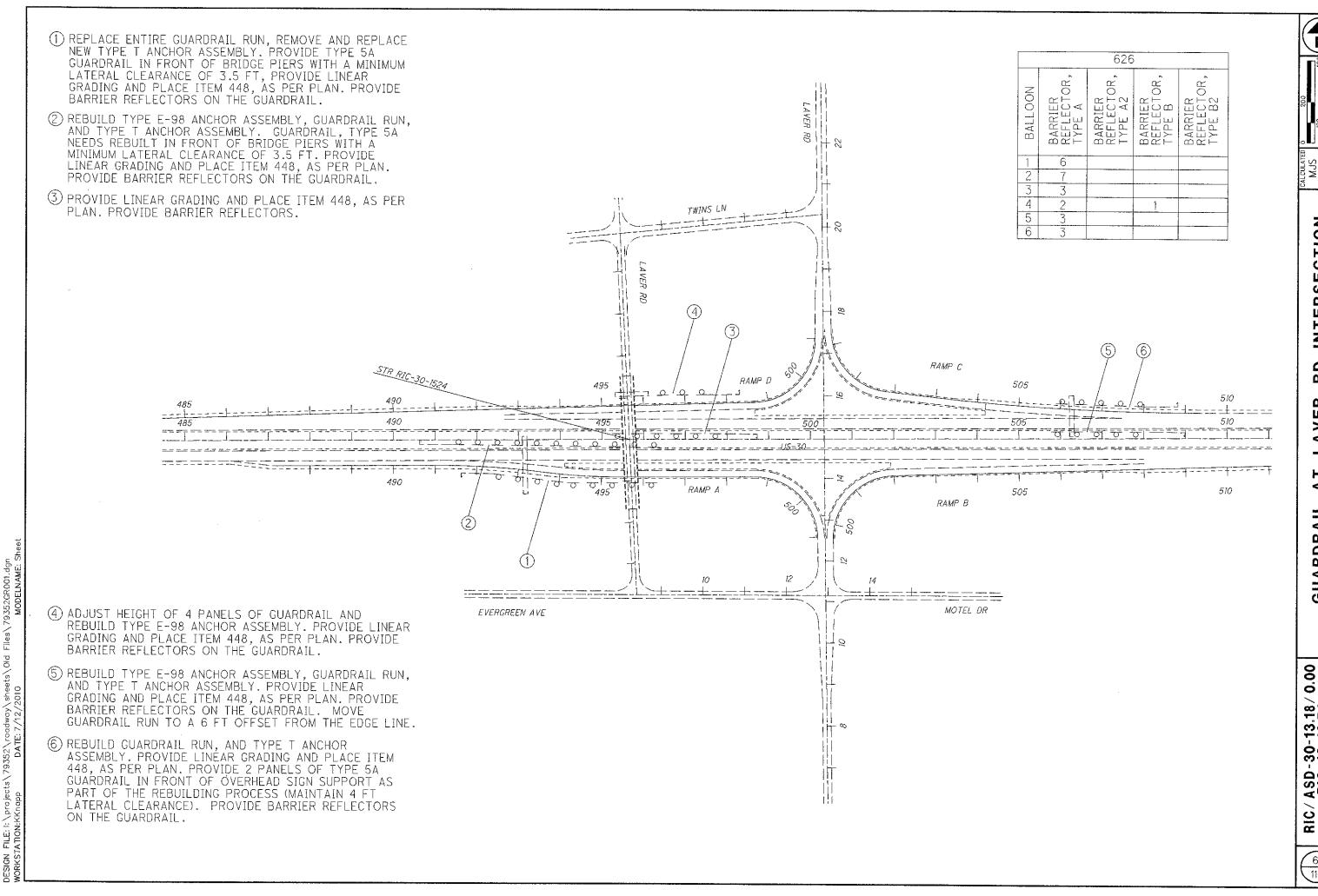


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RUCTURE S

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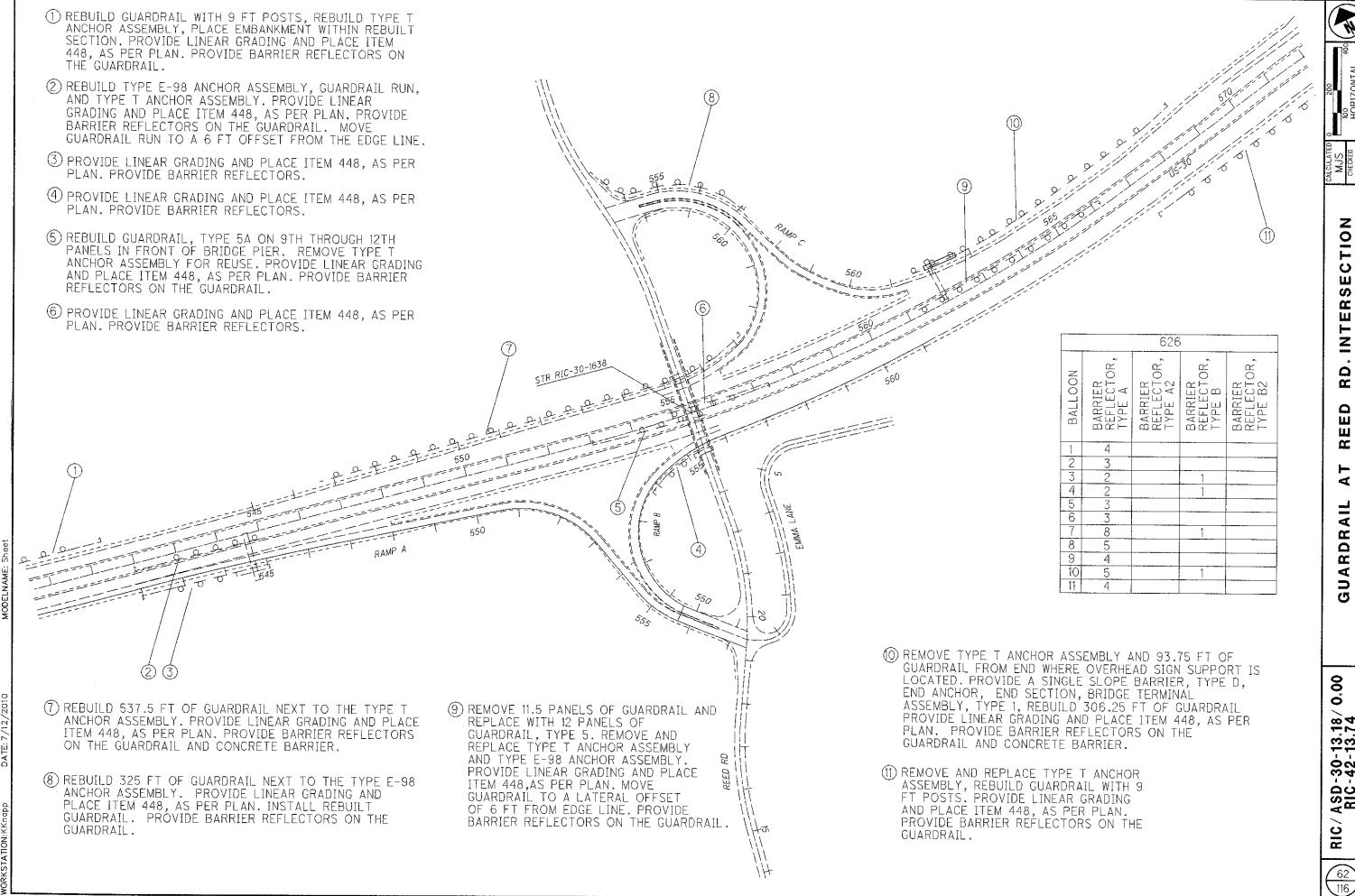
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INTERSECTION

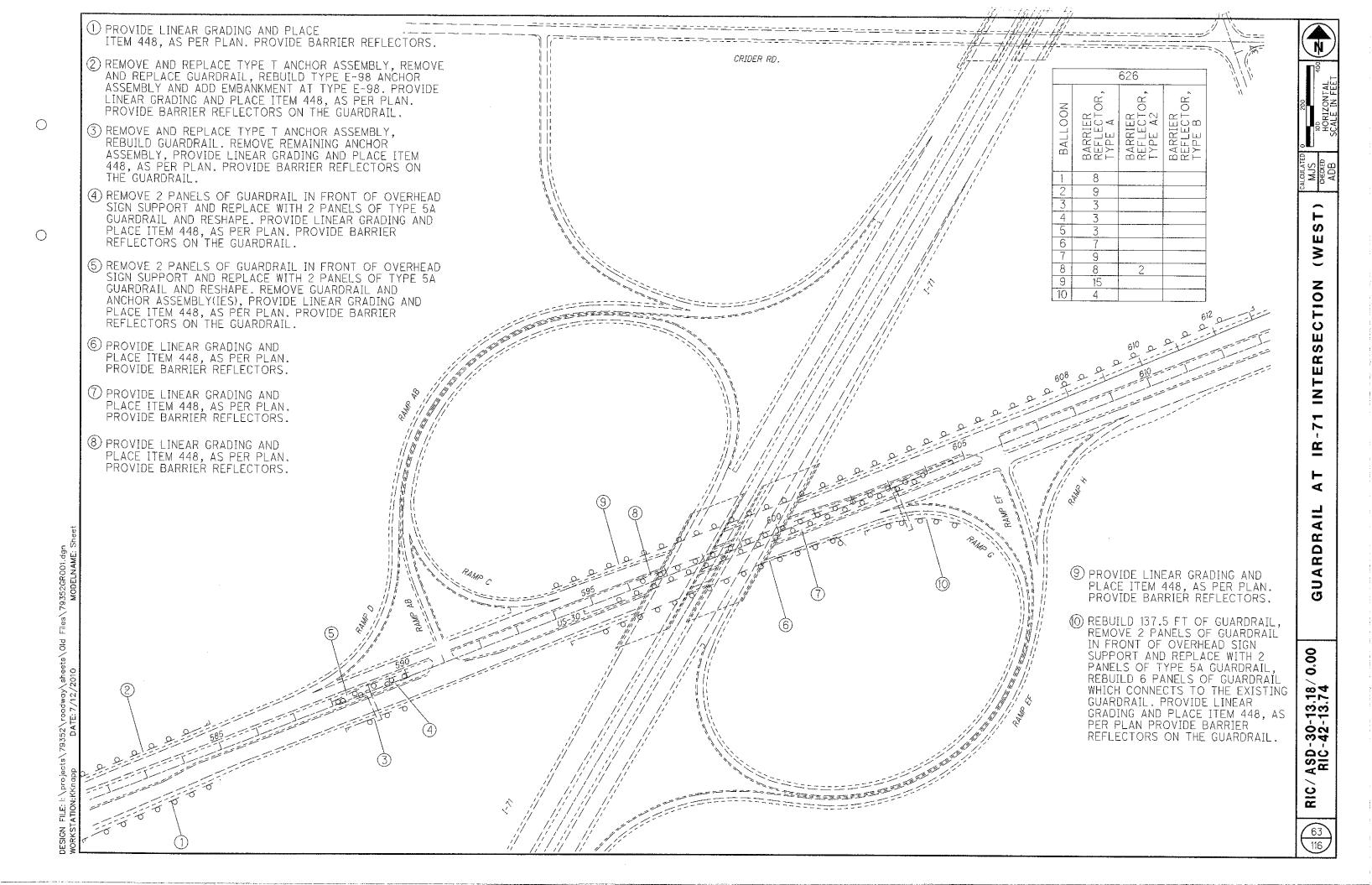
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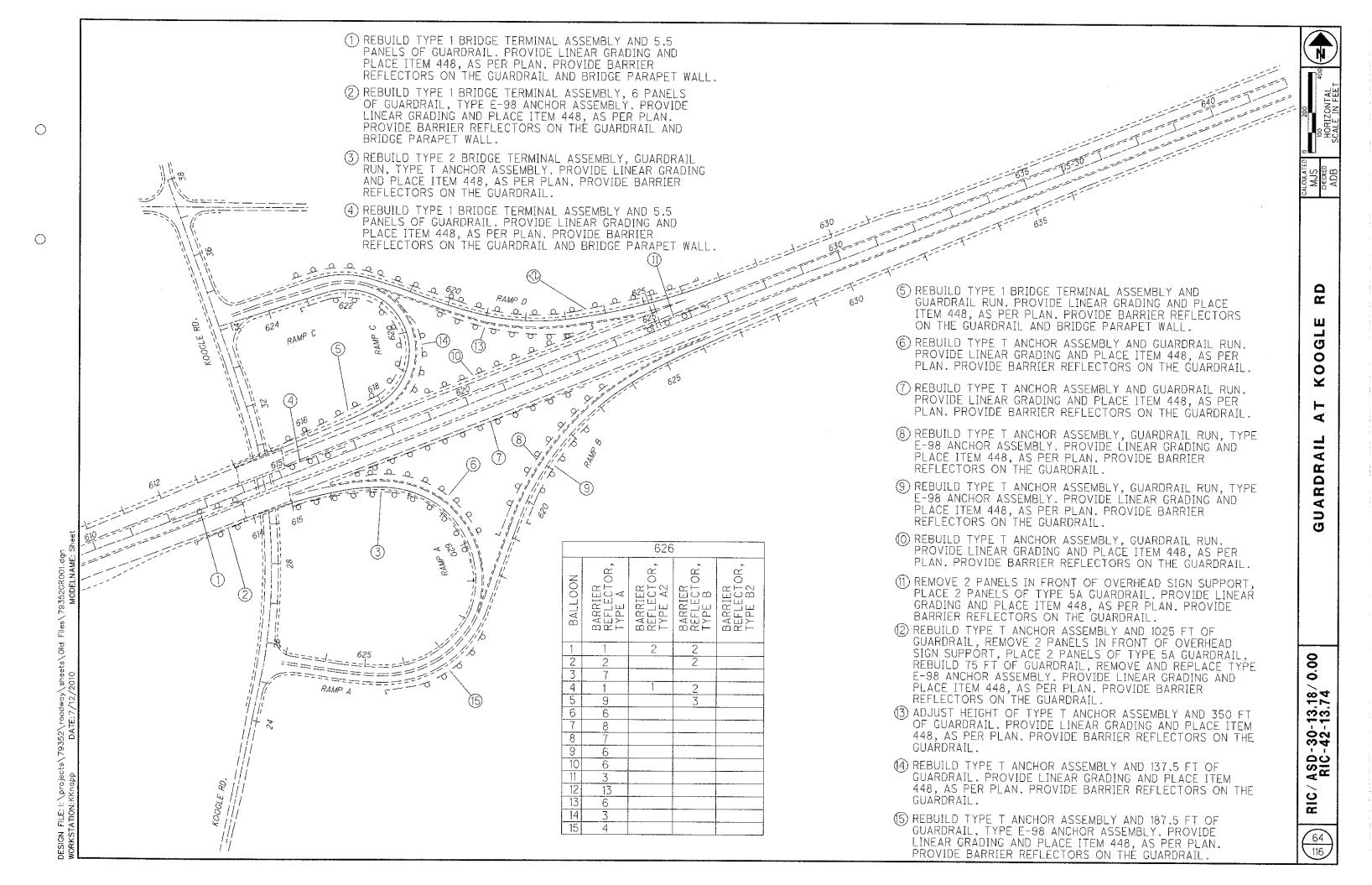
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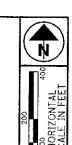


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GUARDRAIL

	BALLOON	BARRIER REFLECTOR, TYPE A	ARRIER EFLECTOR, YPE A2	BARRIER REFLECTOR, TYPE B	BARRIER REFLECTOR, TYPF R2
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- 1) REMOVE AND REPLACE TYPE T ANCHOR ASSEMBLY, REBUILD 1287.5 FT OF GUARDRAIL, PLACE 4 CU YDS OF EMBANKMENT AT TYPE E-98 ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.
- (2) REBUILD TYPE T ANCHOR ASSEMBLY, 1425 FT OF GUARDRAIL, TYPE E-98 ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.
- 3 AFTER THE RADIUS, THE FIRST 7 PANELS ARE IN GOOD CONDITION. REMOVE THESE FOR REUSE. REBUILD 350 FT OF GUARDRAIL, REMOVE AND REPLACE THE TYPE T ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUAŔDRAIL.
- (4) REMOVE AND REPLACE TYPE T ANCHOR ASSEMBLY, REBUILD 1700 FT OF GUARDRAIL, PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.
- (5) TYPE E-98 ANCHOR ASSEMBLY AND THE FIRST 10 PANELS ARE IN GOOD CONDITION. REMOVE THESE FOR REUSE. REBUILD 200 FT OF GUARDRAIL, REMOVE AND REPLACE THE TYPE T ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.

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/ ASD-30-13,18/ (RIC-42-13,74 RIC/

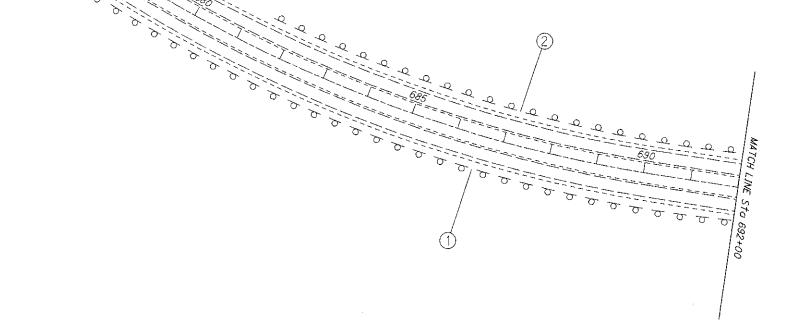
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SD-30-13.18 / 0.00 IC-42-13.74	

BALLOON	BARRIER Reflector, Type a	BARRIER REFLECTOR, TYPE A2	BARRIER REFLECTOR, TYPE B	BARRIER REFLECTOR, TYPE B2
1	14			
2	11			

- 1) REBUILD 1212.5 FT OF GUARDRAIL. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.
- ② REMOVE AND REPLACE TYPE T ANCHOR ASSEMBLY, REBUILD 962.5 FT OF GUARDRAIL. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.





TERMINAL ASSEMBLY. D PLACE ITEM 448, AS PER	4		
E TERMINAL ASSEMBLY.	000		626

1 REMOVE AND REPLACE BRIDGE PROVIDE LINEAR GRADING AND PLAN.

(2) REMOVE AND REPLACE BRIDGE PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER

3 REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH BRIDGE TERMINAL ASSEMBLY, TYPE TST WHICH WILL REQUIRE NEW GUARDIAL, AND A TYPE T ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.

4 REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH BRIDGE TERMINAL ASSEMBLY, TYPE TST WHICH WILL REQUIRE NEW GUARDIAL. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.

(5) REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH BRIDGE TERMINAL ASSEMBLY, TYPE TST WHICH WILL REQUIRE NEW GUARDIAL, AND A TYPE T ANCHOR ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.

6 REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH BRIDGE TERMINAL ASSEMBLY, TYPE TST WHICH WILL REQUIRE NEW GUARDIAL. PROVIDE LINEAR GRADING AND PLACE ITEM 448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE GUARDRAIL.

7 REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH
BRIDGE TERMINAL ASSEMBLY, TYPE TST. REBUILD
GUARDRAIL RUN, REMOVE AND REPLACE TYPE T ANCHOR
ASSEMBLY. PROVIDE LINEAR GRADING AND PLACE ITEM
448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE
GUARDRAIL.

8 REMOVE BRIDGE TERMINAL ASSEMBLY AND REPLACE WITH
BRIDGE TERMINAL ASSEMBLY, TYPE TST. REBUILD
GUARDRAIL RUN UP TO THE RADIUS, REPLACE ONE RUSTY
RAIL IN THE REBUILT SECTION, 4 PANELS ON THE RADIUS
ARE IN GOOD CONDITION. REMOVE THESE FOR REUSE,
REMOVE TYPE A ANCHOR ASSEMBLY AND REPLACE WITH A
TYPE B-98. PROVIDE LINEAR GRADING AND PLACE ITEM
448, AS PER PLAN. PROVIDE BARRIER REFLECTORS ON THE
GUARDRAIL.

	BALLOON	BARRIER Reflector, Type a	BARRIER REFLECTOR, TYPE A2	BARRIER REFLECTOR, TYPE B	BARRIER REFLECTOR, TYPE B2
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	2				
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ITEM 632, DETECTOR LOOP, AS PER PLAN

DETECTOR LOOP REPLACEMENT IS DETAILED ON THE LOOP DETECTOR REPLACEMENT PLAN SHEETS FOR MCELROY RD/US42 AND STEWART RD/US42 INTERSECTIONS. THE LOOPS SPECIFIED SHALL BE REPLACED DUE TO THE NEED TO UPGRADE THE LOOPS TO THE REVISED STANDARD CONSTRUCTION DRAWING.

IT IS IMPERATIVE THAT REPLACEMENT OF LOOP DETECTORS BE INSTALLED AND FULLY FUNCTIONAL IN THE SHORTEST POSSIBLE TIME. IF THE LOOP IS DAMAGED DUE TO PAVEMENT PLANING OR PAVEMENT REPAIR PROCEDURES, THE CONTRACTOR SHALL HAVE REPLACEMENT LOOP DETECTORS INSTALLED AND FULLY FUNCTIONAL WITHIN 7 CALENDAR DAYS OF DESTRUCTION OF THE ORIGINAL LOOP.

THE CONTRACTOR SHALL NOTIFY MATT BLANKENSHIP, DISTRICT 3 ROADWAY SERVICES MANAGER, (PHONE 419-207-7045) 5 WORKING DAYS IN ADVANCE OF ANY PLANING OPERATIONS OR PAVEMENT REPAIR WORK THAT WILL DAMAGE DETECTOR LOOP INSTALLATIONS. THIS NOTIFICATION IS NEEDED FOR DISTRICT 3 TO SCHEDULE TEMPORARY SIGNAL TIMING MODIFICATIONS FOR THE TIME PERIOD WHEN THE DETECTOR LOOPS ARE OUT OF OPERATION. THE CONTRACTOR SHALL THEN RENOTIFY MR. BLANKENSHIP WITHIN 2 WORKING DAYS AFTER THE DAMAGED DETECTOR LOOPS ARE REPLACED SO THAT HE CAN RESCHEDULE DISTRICT CREWS TO RESTORE SIGNAL TIMINGS TO THE ORIGINAL SETTINGS.

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

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

THE LOOP DETECTOR WIRE SHALL BE REPLACED TO THE PULL BOX OR POLE, WHICHEVER IS APPLICABLE, UNDER ITEM 632 AND TC-82.10.

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

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

ITEM 632, LOOP DETECTOR TIE-IN, AS PER PLAN

THIS WORK SHALL CONSIST OF CONNECTING EXISTING LOOP DETECTOR WIRE OR LEAD-IN CABLE TO NEW LOOP DETECTOR LEAD-IN CABLE WHETHER THAT CABLE IS UNDERGROUND OR AERIAL. INCLUDED IN THIS ITEM IS THE CONNECTOR KIT OR CABLE SPLICE KIT (CONFORMING TO 725.15) THAT MUST BE USED IN MAKING THESE CONNECTIONS.

THIS ITEM IS ONLY NEEDED WHEN A TIE-IN SITUATION EXISTS WHERE AN EXISTING CABLE IS SPLICED TO A NEW CABLE. WHEN ALL NEW LEAD-IN WIRE IS SPECIFIED IN THE PLAN, THIS ITEM OF WORK IS NOT REQUIRED.

PAYMENT FOR THIS ITEM WILL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED TO PROVIDE FOR THE LOOP DETECTOR TIE-IN AND OPERATION. BASIS OF PAYMENT WILL BE AT CONTRACT BID PRICE PER EACH.

ITEM 632, LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632, 732.07, PART A, NEMA TS-1, AND 732.08, LOOP DETECTOR UNITS SHALL HAVE THE FOLLOWING REQUIREMENTS OR FEATURES:

- 1) THE OUTPUT DEVICE SHALL BE AN ELECTROMECHANICAL RELAY AND ALL CONTACTS SHALL BE INCLUDED IN THE WIRING HARNESS.
- 2) THE UNIT SHALL BE SELF TUNING.
- 3) THE UNIT'S ELECTRICAL CONNECTION PLUGS OR WIRING HARNESS SHALL ALLOW READY REPLACEMENT WITH SINGLE CHANNEL AMPLIFIERS AS DESCRIBED IN CMS 732.07.

IN ADDITION TO THE REQUIREMENTS LISTED ABOVE, THE DETECTOR UNIT SHALL BE A SINGLE CHANNEL UNIT AND HAVE EASILY ADJUSTABLE TIMERS INCORPORATED IN THE UNIT THAT ARE CAPABLE OF BOTH EXTEND CALL AND DELAY CALL OUTPUTS. THESE ADJUSTMENTS SHALL BE SEPARATE AND CONTROLLABLE BY CALIBRATED SWITCHES OR KNOBS ON THE OUTSIDE OF THE DETECTOR UNIT. THE EXTEND CALL TIMER SHALL BE CAPABLE OF HOLDING THE CALL OF A VEHICLE FOR A PERIOD OF TIME BEGINNING AT THE INSTANT THE VEHICLE LEAVES THE DETECTION AREA. THE DELAY CALL TIMER SHALL BE SUCH THAT IT DOES NOT ISSUE AN OUTPUT UNTIL THE DETECTION ZONE HAS BEEN OCCUPIED FOR A PERIOD OF TIME THAT HAS BEEN SET ON THE ADJUSTABLE TIMER. WHEN TIMES ARE SET ON BOTH THE DELAY AND EXTEND TIMERS, THE UNIT SHALL BE DESIGNED TO INHIBIT THE EXTEND FUNCTION UNTIL THE DELAY TIME HAS BEEN MET. WHEN THE LOOP BECOMES UNOCCUPIED, THE DELAY OUTPUT IS REMOVED. WHEN THE VEHICLE GAP EXCEEDS THE EXTEND TIME, THE ENTIRE DELAY-EXTEND OPERATION BECOMES EFFECTIVELY RESET FOR THE NEXT CYCLE — DELAY TO TIME OUT, ETC.

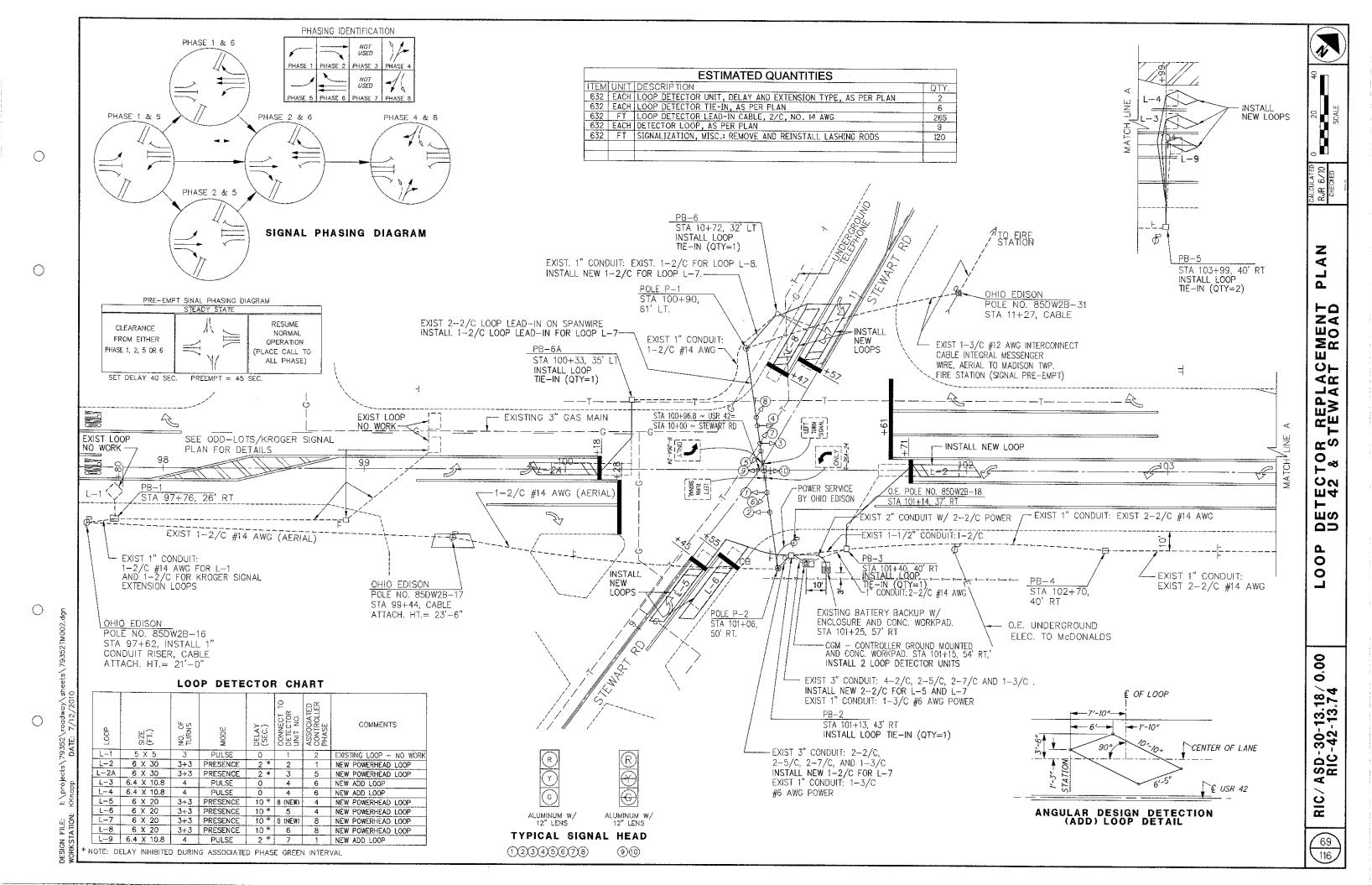
PAYMENT FOR ITEM 632 - LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS.

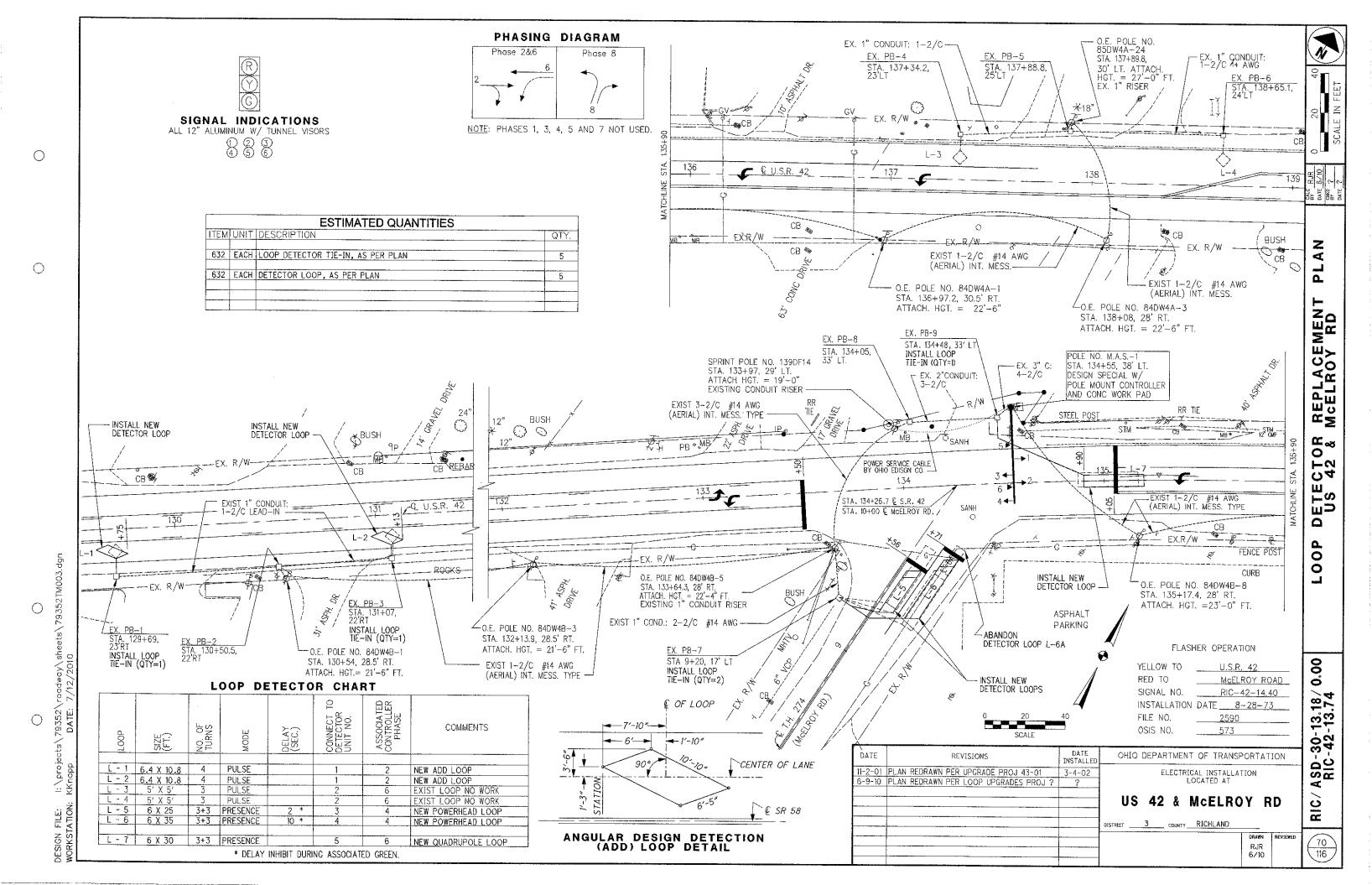
ITEM 632, SIGNALIZATION, MISC.: REMOVE AND REINSTALL LASHING RODS

THIS WORK WILL REQUIRE THE CONTRACTOR TO CAREFULLY REMOVE THE LASHING RODS ACROSS AN EXISTING SIGNAL SPAN SO THAT CABLE(S) CAN BE INSTALLED. AS THE CABLE(S) IS INSTALLED IT SHALL BE CAREFULLY LASHED WITH OTHER EXISTING CABLES UTILIZING THE REMOVED LASHING RODS.

PAYMENT FOR THIS ITEM OF WORK WILL BE IN FEET OF LASHING ROD REMOVED AND REINSTALLED AND WILL INCLUDE ALL LABOR AND EQUIPMENT, INCLUDING TRAFFIC CONTROL, TO PERFORM THE WORK DESCRIBED ABOVE.

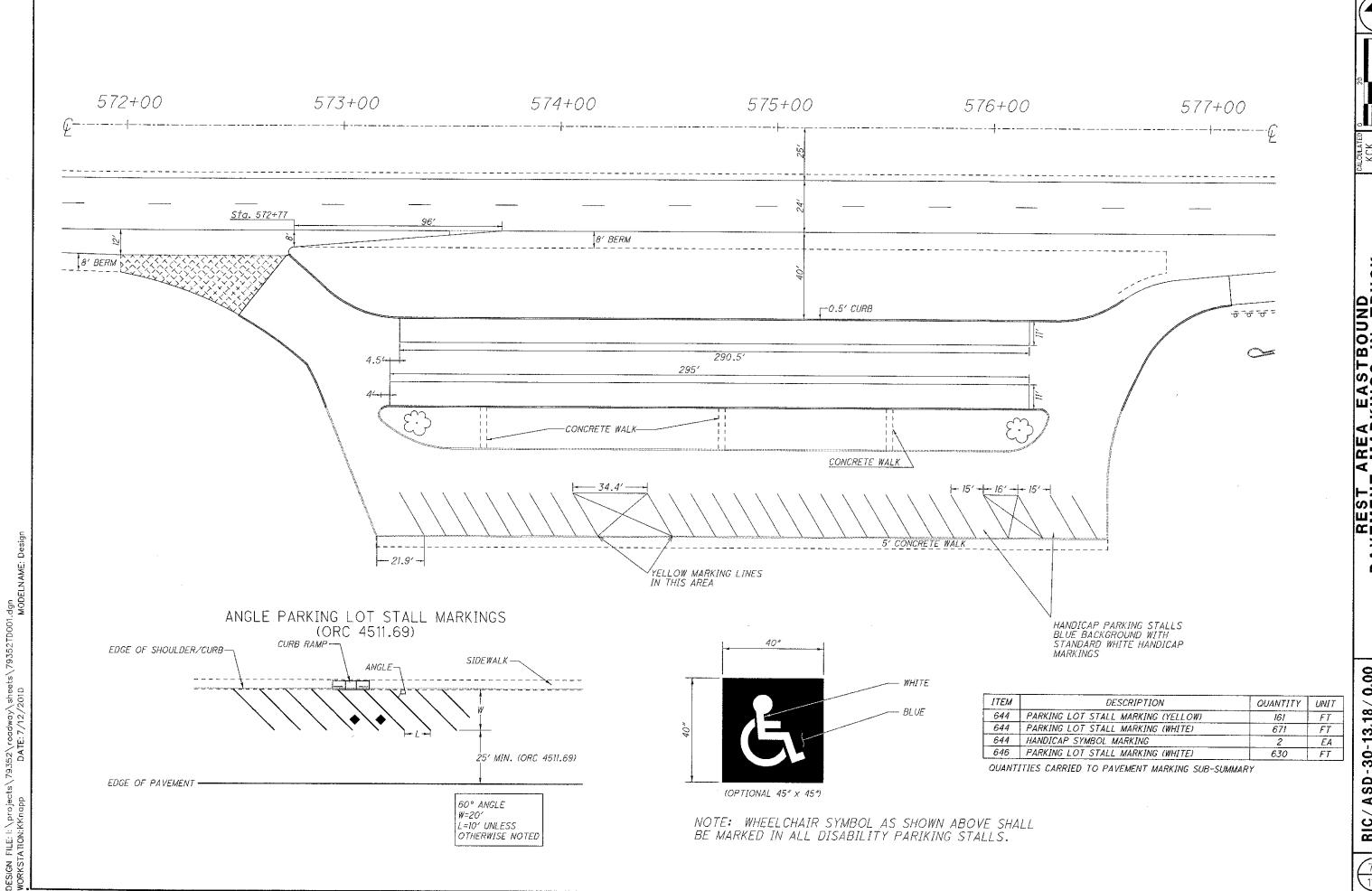
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<u>ല</u>	ŢŢ	NO		LANE LINE, PAINT	NE LINE,	ENTER LINE,	CENTER LINE, PAINT	OGE LINE, NINT	OGE LINE,	DIAGONAL 642 PAINT	DIAGONAL 642 PAINT	LINE,	LINE, AINT	TOP LINE,	TOP LINE,	QUANTITY)	QUANTITY)		EQUIVALENT	QUANTITY) U	NG LINE			RSE/	STALL	S (740.0 ට්		(100)	ш	QUANTITY) EDGE	QUANTITY)		3 LINE STALL			ADB
ROUT	COUNT	FROM	то	WORK ZONE LA	WORK ZONE LANE LINE,	WORK ZONE CENTE	WORK ZONE C	WORK ZONE EDGE		WORK ZONE T TRANSVERSE/DIAGONAL LINE, CLASS II, 642 PAINT	, , , , , , , , ,	WORK ZONE T CHANNELIZING LINE CLASS I, 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT	WORK ZONE STOP L	WORK ZONE STOP CLASS III, 642 PAIN	TOTAL (PAY (WHITE)	TOTAL (PAY OL	LANE LINE	SOLID LINE	TOTAL (PAY	© CHANNELIZING	24"	TRANSVERSE/ P DIAGONAL LINE (WHITE)	TRANSVE P DIAGONA	PARKING LOT			YIELD LINE	AIR SPEED ZONE MARKING	TOTAL (PAY (WHITE)	TOTAL (PAY (YELLOW)		CHANNELIZING PARKING LOT	MARKING		
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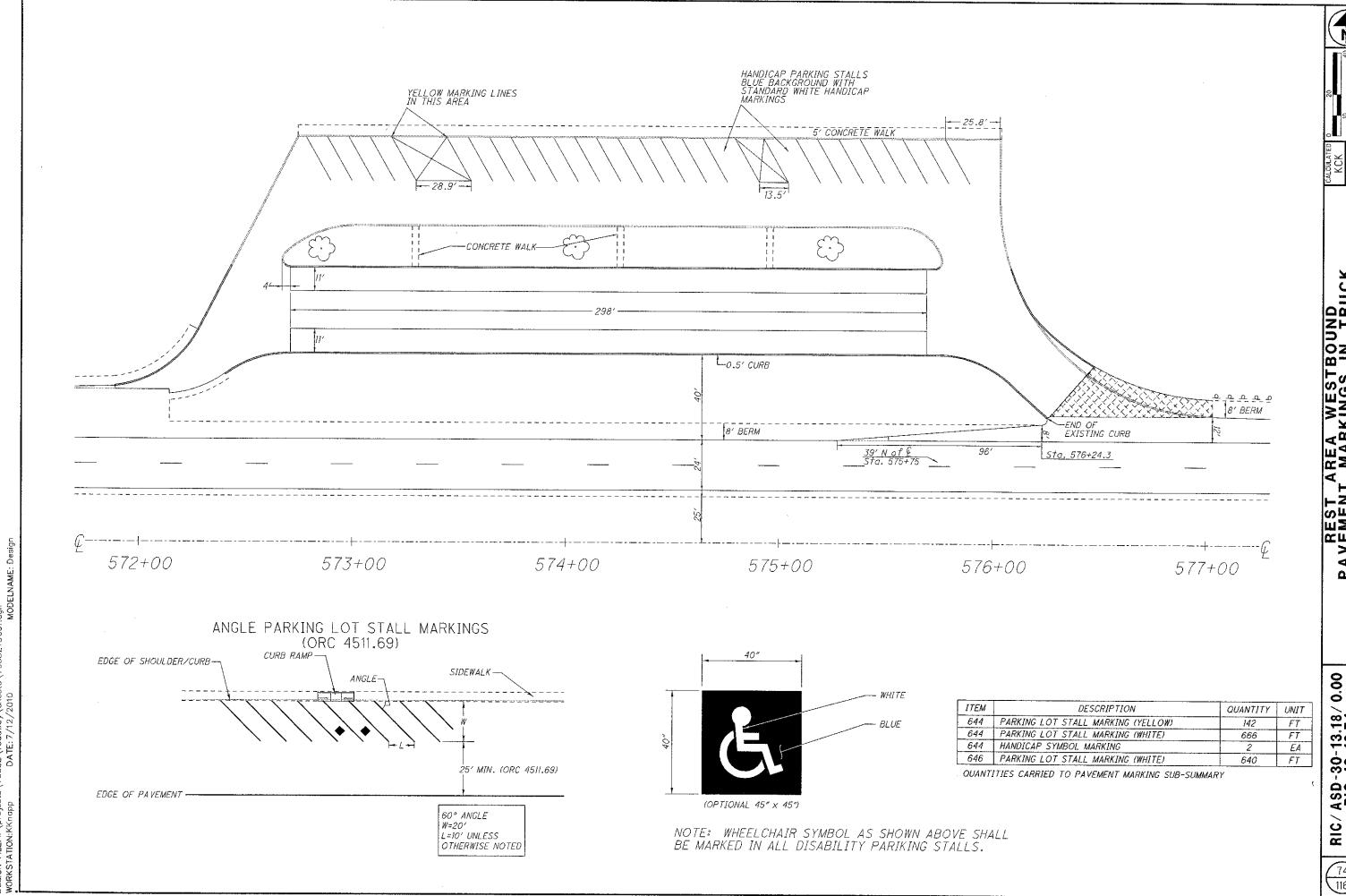


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FBOUND IN TRUCK AREAS REST AREA EAST PAVEMENT MARKINGS AND CAR PARKING

RIC/ASD-30-13.18/0.00 RIC-42-13.74



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REST AREA WESTBOUND PAVEMENT MARKINGS IN TRUCK AND CAR PARKING AREAS

RIC/ASD-30-13.18/ RIC-42-13.74

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US30	RIC	17.00		9	23	38			38			US30 EB LEFT TURN LANE TO IR71 SB & GORE AREAS			_
US30	RIC	17.48		2/3	85	87		 	29	58	 	TAPERED ACCEL. LANE / DECEL. LANE OF KOOGLE RD INTERCHANGE		HORIZONTAL CURVE ALT.	┨.
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US30	RIC	18.36	19.17					 	280		1			FIRE HYDRANT	□
0000	nio	18.36		9	8	8			8		1	LEFT / RIGHT TURN LANES AT TROUT DR	GAP	CENTER LINE AT 80 FT. TYP.	SUB-SUMMA
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110.40															ି । ଅ
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US42	RIC	14.19	14.37	13	26	26		26				TWO WAY LEFT TURN LANE			7 5
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			TOTAL		1,465	1,397	419	103	675	200	+				75 116

RIC-30-1388 SFN 7001320

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	98200	86	FT	REMOVAL MISC.: ELASTOMERIC JOINT GLAND	83
512	10100	896	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	1209	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
516	31000	86	FT	JOINT SEALER	
519	11101	75	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	87

RIC-30-1408L SFN 7001355

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	3.9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	98100	3	EACH	REMOVAL MISC.: ROCKER BEARING	84
202	98200	90	FT	REMOVAL MISC.: ELASTOMERIC JOINT GLAND	83
202	98200	90	FŢ	REMOVAL MISC.: STEEL RETAINER	83
511	34450	3.2	ÇU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	1.7	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	1011	SQ YD	BRIDGE DECK GROOVING	84
512	10100	1050	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	14600	90	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: REPAIR	86
516	31000	159	FT	JOINT SEALER	
516	45305	7	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	87
516	46200	3	EACH	BEARING DEVICE, ROCKER	
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	86
519	11100	36	SQ FT	PATCHING CONCRETE STRUCTURE	
601	28000	40	CU YD	DUMPED ROCK FILL, TYPE D	
847	10201	1011	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	33	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	
847	30200	1	CU YD	FULL DEPTH REPAIR	
847	30401	1011	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	81	SQ YD	HAND CHIPPING	

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RIC/ASD-30-13,18/0.00 RIC-42-13,74

SUMMARY

STRUCTURE

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	4.2	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	98100	4	EACH	REMOVAL MISC.: ROCKER BEARING	84
202	98200	90	FT	REMOVAL MISC.: ELASTOMERIC JOINT GLAND	83
202	98200	45	FT	REMOVAL MISC.: STEEL RETAINER	83
511	34450	3,2	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511.	45701	2.0	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	1011	SQ YD	BRIDGE DECK GROOVING	84
512	10100	1070	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	14600	45	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: REPAIR	86
516	31000	159	FT	JOINT SEALER	
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516 ————	45305	6	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	87
516	46200	4	EACH	BEARING DEVICE, ROCKER	
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	86
519	11100	67	SQ FT	PATCHING CONCRETE STRUCTURE	
601	28000	30	CU YD	DUMPED ROCK FILL, TYPE D	
847	10201	1011	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	28	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	
847	30200	1	CU YD	FULL DEPTH REPAIR	
847	30401	1011	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	81	SQ YD	HAND CHIPPING	

STRUCTURE SUMMARY

RIC/ASD-30-13.18/0.00 RIC-42-13.74

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ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	3.1	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	98200	85	FT	REMOVAL MISC : ELASTOMERIC JOINT GLAND	8.3
511	34450	2.3	CU YD	CLASS S CONCRETE, MISC : APPROACH SLAB REPAIR	84
511	45701	1.6	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
512	10100	847	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	1056	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
516	31000	133	FT	JOINT SEALER	
519	11101	138	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	87
SPECIAL	51910000	2	SQ YD	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	87

RIC-30-1527 SFN 7001495

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	.9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	98200	60	FT	REMOVAL MISC .: ELASTOMERIC JOINT GLAND	83
511	45701	.9	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
512	10100	914	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	1334	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
512	10601	21	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN	84
516	31000	60	FT	JOINT SEALER	
519	11101	7	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	87
SPECIAL	51910000	2	SQ YD	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	87

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SUMMARY

STRUCTURE

RIC-30-1640 SFN 7001517

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	3.5	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
511	34450	2.4	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	1.7	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
512	10100	992	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	1353	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
513	95020	LUMP		STRUCTURAL STEEL, MISC.: REWELDING EXISTING CROSS FRAME MEMBERS	84
514	20001	62	SQ FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)	85
516	31000	133	FT	JOINT SEALER	
519	11101	21	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	87
SPECIAL	51910000	1	SQ YD	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	87
849	10500	LUMP		SURFACE PREPARATION	
849	10600	3	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING	

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(5) RIC/ASD-30-13.18/0.00 RIC-42-13.74

SUMMARY

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ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	8.6	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
511	34450	4.2	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	5.6	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	861	SQ YD	BRIDGE DECK GROOVING	84
512	10100	548	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	31000	203	FT	JOINT SEALER	
518	12901	14	EACH	SCUPPER, LENGTHENING, AS PER PLAN	87
519 ,	11100	7	SQ FT	PATCHING CONCRETE STRUCTURE	
847	10201	861	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	33	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	
847	30200	1	CU YD	FULL DEPTH REPAIR	
847	30401	861	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	69	SQ YD	HAND CHIPPING	

RIC-30-1750R SFN 7001592

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	4.7	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
511	34450	3.8	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	2	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	577	SQ YD	BRIDGE DECK GROOVING	84
512	10100	536	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	31000	191	FT	JOINT SEALER	
518	12901	14	EACH	SCUPPER, LENGTHENING, AS PER PLAN	87
519	11100	45	SQ FT	PATCHING CONCRETE STRUCTURE	
847	10201	577	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	19	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	
847	30401	577	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	46	SQ YD	HAND CHIPPING	

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RIC-30-1915L SFN 7001657

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	10.3	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	11301	56.4	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE)	84
202	38500	523	FT	BRIDGE RAILING REMOVED	
202	98100	10	EACH	REMOVAL MISC.: ROCKER BEARINGS	84
202	98200	69	FT	REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL	84
509	10000	10337	POUND	EPOXY COATED REINFORCING STEEL	
511	34401	62.2	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR OR RECONSTRUCTION)	84
511	34450	5.1	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	5.2	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	974	SQ YD	BRIDGE DECK GROOVING	84
513	21501	1738	POUND	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	86
513	95020	LUMP		STRUCTURAL STEEL, MISC.: WELDING CRACKED EXPANSION ANGLE	86
514	00051	1127	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN	86
514	00057	1127	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN	86
514	00061	1127	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	86
514	00067	1127	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	86
514	00504	4	MAN HOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
516	10901	69	FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN	86
516	31000	69	FT	JOINT SEALER	
516	46200	10	EACH	BEARING DEVICE, ROCKER	
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	86
517	70001	521.34	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	87
SPECIAL	51822300	628	FT	STEEL DRIP STRIP	87
847	10201	974	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	32	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	<u> </u>
847	30401	974	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	78	SQ YD	HAND CHIPPING	

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RIC/ASD-30-13,18/0,00 RIC-42-13,74

SUMMARY

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RIC-30-1915R SFN 7001681

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	5.8	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	84
202	11301	56.4	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE)	84
202	38500	523	FT	BRIDGE RAILING REMOVED	
202	98000	LUMP		REMOVAL MISC .: PORTION OF EXPANSION JOINT	
202	98100	10	EACH	REMOVAL MISC.: ROCKER BEARINGS	84
202	98200	69	FT	REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL	84
509	10000	10337	POUND	EPOXY COATED REINFORCING STEEL	
511	34401	62.2	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR OR RECONSTRUCTION)	84
511	34450	3.4	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	84
511	45701	2.4	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	84
SPECIAL	51160000	974	SQ YD	BRIDGE DECK GROOVING	84
512	10601	20	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN	84
513	21501	1738	POUND	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	86
513	95020	LUMP		STRUCTURAL STEEL, MISC.: WELDING CRACKED EXPANSION ANGLE	86
514	00051	1127	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN	86
514	00057	1127	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN	86
514	00061	1127	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN	86
514	00067	1127	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	86
514	00504	4	MAN HOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
516	10901	69	FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN	86
516	14600	6	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: PARTIAL STEEL JOINT REPAIR	86
516	31000	69	FT	JOINT SEALER	
516	46200	10	EACH	BEARING DEVICE, ROCKER	
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	86
517	70001	521.34	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	87
SPECIAL	51822300	628	FT	STEEL DRIP STRIP	87
847	10201	974	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	87
847	20201	32	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	87
847	30000	LUMP		TEST SLAB	01
847	30401	974	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	87
847	50000	78	SQ YD	HAND CHIPPING	0/

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RIC/ASD-30-13.18/0.00 RIC-42-13.74

SUMMARY

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REFERENCES SHALL BE MADE TO STANDARD BRIDGE DRAWINGS:

EXJ-2-81	DATED	7/19/0
GSD-1-96	DATED	7/19/0
RB-1-55	DATED	2/2/59
TST-1-99	DATED	4-18-08
DS-1-92	DATED	7-18-03
PCB-91	DATED	7-19-02

REFERENCES SHALL BE MADE TO SUPPLEMENTAL SPECIFICATIONS:

847	DATED	4/16/10
849	DATED	1/19/07
961	DATED	10/17/08

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, 2004, 2005 AND 2006 SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

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 PRE BID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS:

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH.

STRUCTURE #	PLAN NAME	DATE
RIC-30-1388	RIC-30-(5.78)(6.32)	1971
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1408L&R	RIC-30-5.79 & ASD-30-0.00	1958
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1441	RIC-30-(5.78)(6.32)	1971
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1527	RIC-30-15.24	1977
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1640	RIC-30-16.37	1977
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1750L&R	RIC-30-9.28 & ASD-30-0.00	1966
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1915L	RIC-30-9.28 & ASD-30-0.00	1966
	RIC-30-12.37, ASD-30-0.00	1985
RIC-30-1915R	RIC-30-5.79 & ASD-30-0.00	1958
	RIC-30-12.37, ASD-30-0.00	1985

DESIGN DATA:

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4,000 PSI
CONCRETE CLASS S - COMPRESSIVE STRENGTH 4,500 PSI
REINFORCING STEEL - ASTM A615 OR A996 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI
STRUCTURAL STEEL - ASTM A709 GRADE 50W OR GRADE 50 - YIELD STRENGTH 50,000 PSI
A709 GRADE 36 - YIELD STRENGTH 36,000 PSI

DECK PROTECTION METHOD:

SUPERPLASTICIZED DENSE CONCRETE OVERLAY
SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN

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.

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 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.

ITEM 202 - REMOVAL MISC .: STEEL RETAINER:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING STEEL RETAINER ON THE BACKWALL SIDE OF THE EXPANSION JOINTS AT LOCATIONS SHOWN IN THE PLAN.

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.

ITEM 202 - REMOVAL MISC .: ELASTOMERIC JOINT GLAND:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING ELASTOMERIC JOINT GLAND.

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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ITEM 202 - REMOVAL MISC .: ELASTOMERIC COMPRESSION SEAL:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING ELASTOMERIC COMPRESSION SEAL GLAND.

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.

ITEM 202 - REMOVAL MISC .: ROCKER BEARING

THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY MATERIALS AND LABOR TO REMOVE THE EXISTING ROCKER BEARING AT THE LOCATIONS INDICATED IN THE PLAN.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER EACH FOR ITEM 202 - REMOVAL MISC .: ROCKER BEARING WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED. AS PER PLAN:

THIS ITEM SHALL BE USED AT LOCATIONS IN THE PLAN.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT. ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS NO HEAVIER THAN THE 90 POUND CLASS.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

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

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE):

THIS WORK CONSISTS OF THE REMOVAL OF CONCRETE DECK EDGES.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT. ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS NO HEAVIER THAN THE 90 POUND CLASS.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

THE CONTRACTOR MAY REMOVE CONCRETE BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STEEL BEAMS BRIDGE MEMBERS, THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER BRIDGE MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STEEL MEMBERS.

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

ITEM 202 - REMOVAL MISC .: PORTION OF EXPANSION JOINT:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING VERTICAL 6" LEG OF THE L8X6X1/2 ANGLE OF THE EXPANSION JOINT RETAINER. THE HORIZONTAL 8" LEG OF THE ANGLE HAS BEEN PREVIOUSLY REMOVED. THE REMOVAL SHALL ALSO INCLUDE THE REMOVAL OF THE EXISTING ATTACHED WAFFLE PLATES AND RETAINING BAR.

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.

ITEM 511 - CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR):

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

ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE. AS PER PLAN (REPAIR OR RECONSTRUCTION):

THESE ITEMS SHALL BE USED AT LOCATIONS INDICATED IN THE PLAN.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

TYPE A WATERPROOFING IS INCIDENTAL.

ALL EXISTING SURFACES TO WHICH THE CONCRETE IS TO BOND SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

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

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 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN:

THIS ITEM SHALL BE USED AT THE LOCATION INDICATED IN THE PLAN.

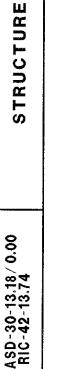
THE COST OF THE CAULKING TO SEAL AROUND THE BOLSTER IS INCLUDED IN THIS ITEM.

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

ITEM 513 - STRUCTURAL STEEL MISC .: REWELDING EXISTING CROSS FRAME MEMBERS:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING BROKEN WELDS AND REWELD THE CROSS FRAME ANGLES AS DETAILED IN THE PLAN ON STRUCTURE RIC-30-1640.

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.



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ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL. AS PER PLAN (THREE COAT):

1.0 DESCRIPTION

THIS ITEM CONSISTS OF CLEANING AND FIELD PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU PAINT SYSTEM. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU PAINT SYSTEMS.

2.0 GENERAL

C&MS 514.05 THROUGH 514.10 AND 514.13-D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING OZEU PAINTED SURFACES

CLEAN SURFACES TO BE COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCIPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS.

4.0 SURFACE PREPARATION

AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 10, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1. THE ENGINEER WILL USE THE SSPC-VIS 1 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF 1/2 INCH OF EACH COAT. CONTAIN AND DISPOSE DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO C&MS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A 1/2 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

5.0 FIELD PAINTING

APPLY THE PRIME, INTERMEDIATE AND FINISH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN C&MS 708.02, ACCORDING TO C&MS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO MATCH THE EXISTING BLUE COLOR MEETING FEDERAL COLOR FS-595A-15450 AND TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF C&MS 514.20. APPLY PAINT AS FOLLOWS:

A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.

B. APPLY CAULK AFTER PRIMING

C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.

D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME. INTERMEDIATE AND FINISH COATS WITH A BRUSH, IN I IFU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

6.0 MEASUREMENT

THE DEPARTMENT WILL MEASURE FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED.

THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

7.0 BASIS OF PAYMENT

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS: THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SQUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

ITEM

UNIT

DESCRIPTION

514 SQUARE FEET

FIELD PAINTING OF DAMAGED STRUCTURAL STEEL. AS PER PLAN (THREE COAT)

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ITEM 513 - REPLACEMENT OF DETERIORATED END CROSSFRAMES. AS PER PLAN:

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.04 OR SUPPLY THE ENGINEER WITH "AS-BUILT" DRAWINGS MEETING 513.04 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. IF NECESSARY, THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED AND DATED, ALONG WITH MICROFILM, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE 1/2" GUSSET PLATES ARE INCLUDED IN THIS ITEM.

COST TO REMOVE EXISTING CROSS FRAME MEMBERS INCLUDING GUSSET PLATES AND ALL NECESSARY GRINDING SHALL BE INCLUDED IN THIS ITEM.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: 4 X 4 X 3/4 ANGLE, 3 X 3 X 5/4 ANGLE.

ITEM 513 - STRUCTURAL STEEL, MISC.: WELDING CRACKED EXPANSION ANGLE:

THIS ITEM SHALL INCLUDE THE WELDING OF CRACKS IN THE RETAINER ANGLES OF THE EXPANSION JOINT AS DETAILEDAND LOCATED IN THE PLANS. THE ENDS OF THE CRACKS SHALL BE DRILLED TO PREVENT EXPANSION OF THE CRACKING PRIOR TO THE WELDING. THE WELDS SHALL BE GROUND FLUSH.

ALL DRILLING, WELDING, GRINDING, LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 513 - STRUCTURAL STEEL, MISC.: WELDING CRACKED EXPANSION ANGLE.

PAINTING OF 513 STEEL:

NEW STEEL SHALL BE SHOP PRIMED, WHICH SHALL BE INCLUDED IN THE COST OF TITEM 514. THE NEW STEEL SHALL ALSO BE PREPARED AND PAINTED IN THE FIELD AS IF IT WERE EXISTING STEEL. QUANTITIES AND PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE SQUARE FOOT UNIT PRICE BID FOR THE APPROPRIATE 514 ITEMS.

ITEM 514 SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL. AS PER PLAN: ITEM 514 FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN: ITEM 514 FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN: ITEM 514 FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN:

THIS ITEM SHALL INCLUDE PREPARING AND PAINTING THE FIRST 10' OF W36X170 BEAM ENDS AT THE ABUMENTS, THE NEW END CROSS FRAMES AND ALL NEW ROCKER BEARINGS.

THE COLOR OF THE FINISH COAT SHALL BE A BLUE-GREEN COLOR MEETING FEDERAL STANDARD NUMBER 14241.

THE COST OF THIS WORK SHALL BE INCLUDED WITH ITEM 514 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN: ITEM 514 FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN:
ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT,
AS PER PLAN: AND ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT. AS PER PLAN.

ITEM 516 - ELASTOMERIC COMPRESSION SEAL, AS PER PLAN:

COMPRESSION SEAL: FURNISH MATERIAL CONFORMING TO 705.11. THE SEAL CONFIGURATION SHOULD BE SIMILAR TO THE DETAILS SHOWN HEREIN. ACCEPTED MANUFACTURES ARE: D.S.BROWN (MODEL CV3000), WATSON-BOWMAN-ACME (MODEL WJ300) OR AN APPROVED EQUIVALENT. INSTALL THE SEAL ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND UNDER THE SUPERVISION OF THE MANUFACTURER'S DESIGNATED REPRESENTATIVE.

JOINTS IN COMPRESSION SEALS: FURNISH SEALS IN ONE CONTINUOUS PIECE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER MISC .: PARTIAL STEEL JOINT REPAIR:

THIS ITEM SHALL BE USED AT THE LOCATION INDICATED IN THE PLAN. THIS ITEM SHALL BE USED TO INSTALL A NEW L8X6X1/2 ANGLE AS PER DETAILS IN THE PLAN.

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

ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER MISC .: REPAIR:

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

THIS ITEM SHALL BE USED TO INSTALL A NEW 11/2" X 11/2" STEEL BAR AS PER DETAILS IN THE PLAN.

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

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE. AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR REPOSITIONING EXISTING STRUCTURE TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

THE JACKING OPERATION SHALL BE DONE PRIOR TO THE OVERLAY BEING PLACED.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL, EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE AS PER DUAN.

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ITEM 516 - REFURBISH BEARING DEVICE, AS PER PLAN:

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN THE BRIDGE BEARING AS WELL AS ITS CLEANING AND PAINTING, INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARING, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514. REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PAD (711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARING TO PROVIDE A SNUG FIT. REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARING IS VERTICALLY ALIGNED AT 60° F (15° C), LUBRICATING SLIDING SURFACES, REASSEMBLY OF THE BEARING, AND RESETTING OF THE BEARING. ASSURE THE BEARING IS SHIMMED ADEQUATELY AND THAT NO BEAMS AND/ OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL A NEW BEARING OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARING. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516-REFURBISH BEARING DEVICE. AS PER PLAN

ITEM SPECIAL - STEEL DRIP STRIP:

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.

ITEM 517 - RAILING (TWIN STEEL TUBE), AS PER PLAN:

THIS ITEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWING TST-1-99 WITH THE EXCEPTION OF THE W6X25 POSTS SHALL BE 4'-2" AS DETAILED IN THE PLANS.

ITEM 518 - SCUPPER LENGTHENING. AS PER PLAN:

THIS ITEM SHALL BE USED AT THE LOCATIONS INDICATED IN THE PLAN AND AS PER DETAILS ON SHEET 111 TO REMOVE 10" OF EXISTING SCUPPER PIPE AND REPLACE IT WITH 2'-2" OF NEW PIPE. THE SCUPPER EXTENSION SHALL BE PAINTED WITH A PRIMER PAINT AND TOP COATED WITH A URETHANE PAINT TO MATCH THE COLOR OF THE EXISTING STEEL.

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

ITEM 519 - PATCHING CONCRETE STRUCTURE. AS PER PLAN:

THIS ITEM SHALL BE USED AT THE LOCATIONS INDICATED IN THE PLAN TO PATCH VARIOUS PIER COLUMNS.

ALL NEEDED EXCAVATION IS INCLUDED IN THIS ITEM.

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

ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE:

SEE PROPOSAL NOTE 511 "PATCHING CONCRETE BRIDGE DECK OVERLAYS WITH MICRO-SILICA MODIFIED CONCRETE" FOR DETAILS.

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 847 - EXISTING CONCRETE OVERLAY REMOVED. AS PER PLAN (2" NOMINAL THICKNESS):

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING OVERLAY AS PER DETAILS IN THE PLANS.

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY TO BE REMOVED SHALL BE AS SPECIFIED IN THE PLANS.

THIS ITEM SHALL ALSO BE USED TO REMOVE THE ADDITIONAL CONCRETE THICKNESS AS PER DETAILS IN THE PLANS.

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

ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY. AS PER PLAN (2" THICK):

ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN:

THESE ITEMS SHALL BE PERFORMED PER SUPPLEMENTAL SPECIFICATION 847 "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING SCARIFICATION AND CHIPPING" WITH THE FOLLOWING REVISIONS:

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY REMOVED AND PROPOSED OVERLAY SHALL BE AS SPECIFIED IN THE PLANS.

ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED BY ASTM C-127.

NON PERFORM THE TEXTURED GROOVING AS SPECIFIED IN 847.22.

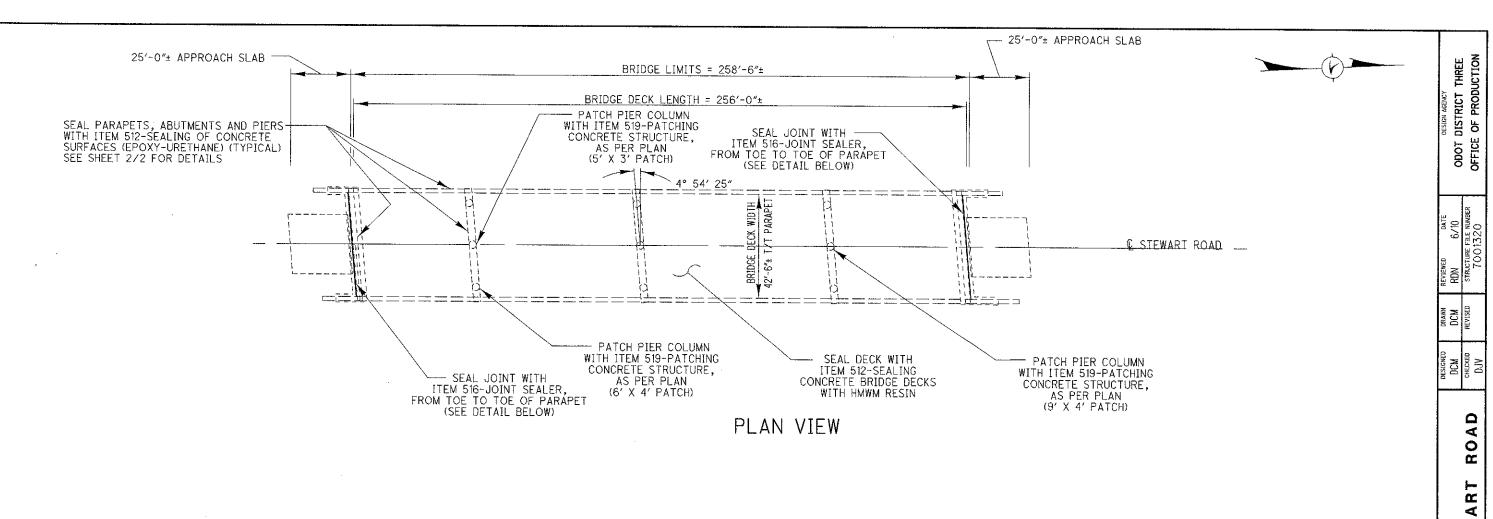
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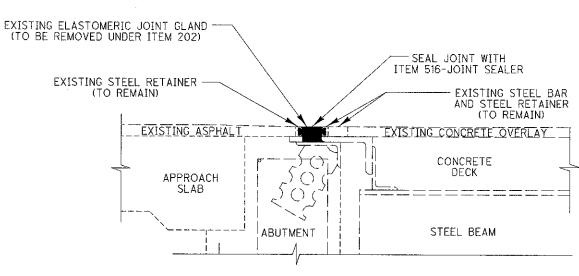
STRUCTURE FILE NO.	BRIDGE NO.	LOCATION	BRIDGE TYPE	SKEW	BRIDGE LIMITS	DECK WIDTH	PROPOSED WORK
7001320	RIC-30-1388	UNDER STEWART ROAD	4-SPAN STEEL BEAM	4° 54′ 25″ RF	258′~6″±	42'-6"± T/T PARAPETS	DECK, PARAPETS & SUBSTRUCTURE SEALING, PIER PATCHING AND JOINT SEALING
7001355	RIC-30-1408L	OVER U.S. 42	4-SPAN STEEL BEAM	45° 45′ LF	294′-5″±	31'-4"± T/T PARAPETS	OVERLAY, PARAPETS & PIER SEALING, PIER & DECK EDGE PATCHING. ABUTMENT, BACKWALL & APPROACH SLAB REPAIR, EXPANSION JOINT REPAIR AND DUMPED ROCK FILL
7001444	RIC-30-1408R	OVER U.S. 42	4-SPAN STEEL BEAM	45° 45′ LF	294′-5″±	31'-4"± T/T PARAPETS	OVERLAY, PARAPETS & PIER SEALING, PIER & DECK EDGE PATCHING. ABUTMENT, BACKWALL & APPROACH SLAB REPAIR, EXPANSION JOINT REPAIR AND DUMPED ROCK FILL
7001479	RIC-30-1441	UNDER MCELROY ROAD	4-SPAN STEEL BEAM	0°	226′-0″±	42'-6"± T/T PARAPETS	DECK & PIER PATCHING, BACKWALL & APPROACH SLAB REPAIR AND DECK, PARAPET & SUBSTRUCTURE SEALING
7001495	RIC-30-1527	UNDER LAVER ROAD	4-SPAN STEEL BEAM	0°	319′-6″±	30'-0"± T/T CURB	PIER CAP REPAIR, DECK & PIER PATCHING, BACKWALL REPAIR AND DECK, SIDEWALK, PARAPET & SUBSTRUCTURE SEALING
7001517	RIC-30-1640	UNDER REED ROAD	4-SPAN STEEL BEAM	0°	289′-6″±	42'-6"± T/T PARAPETS	DECK & PIER PATCHING, BACKWALL & APPROACH SLAB REPAIR AND DECK, PARAPET & SUBSTRUCTURE SEALING AND COLLISION DAMAGE REPAIR
7001568	RIC-30-1750L	OVER KOOGLE ROAD	3-SPAN STEEL BEAM	12° 47′ LF	142′-1″±	VARIES FROM 54'± TO 57'-1" T/T PARAPETS	OVERLAY, PARAPETS & PIER SEALING, DECK EDGE PATCHING. ABUTMEN BACKWALL & APPROACH SLAB REPAIR, SCUPPER LENGTHENING
7001592	RIC-30-1750R	OVER KOOGLE ROAD	3-SPAN STEEL BEAM	12° 47′ LF	142′-1″±	VARIES FROM 50'± TO 56'-5" T/T PARAPETS	PARTIAL OVERLAY, PARAPETS & PIER SEALING, DECK EDGE PATCHING BACKWALL & APPROACH SLAB REPAIR, SCUPPER LENGTHENING
7001657	RIC-30-1915L	OVER BLACK FORK	4-SPAN STEEL BEAM	0°	256′-6″±	34'-"± F/F GUARDRAIL	DECK EDGE, OVERLAY, COMPRESSION JOINT REPAIR, PARTIAL PAINTING, END CROSSFRAMES, ABUTMENT, BACKWALL & APPROACH SLAB REPAIR, BEARING REPLACEMENT AND JOINT SEALING
7001681	RIC-30-1915R	OVER BLACK FORK	4-SPAN STEEL BEAM	0°	256′-6″±	34'-"± F/F GUARDRAIL	DECK EDGE, OVERLAY, COMPRESSION JOINT REPAIR, PARTIAL PAINTING, END CROSSFRAMES, BACKWALL & APPROACH SLAB REPAIR, BEARING REPLACEMENT AND JOINT SEALING

OBOT DISTRICT 3 OFFICE OF PRODUCTION RDN DRAWN DCM REVISED DCM CHECKED DJV

STRUCTURE INFORMATION

(E) RIC/ASD-30-13.18/0.00 RIC-42-13.74





JOINT SEALING DETAIL

ITEM	QUANTITY	UNIT	DESCRIPTION
202	86	FT	REMOVAL MISC.: ELASTOMERIC JOINT GLAND
512	896	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1209	SQ YD	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	86	FT	JOINT SEALER
519	75	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET.

ASD-30-13.18/ RIC-42-13.74 NOTES: 1. SEAL DECK WITH ITEM 512. RIC/ 2. PATCH 3 PIER COLUMNS WITH ITEM 519. 3. SEAL PIER COLUMNS, PARAPETS AND ABUTMENTS WITH ITEM 512 AFTER ALL PATCHING IS COMPLETE. SEE SHEET 2/2 FOR DETAILS. 4. REMOVE EXISTING ELASTOMERIC JOINT GLANDS AND SEAL JOINTS WITH ITEM 516. 89

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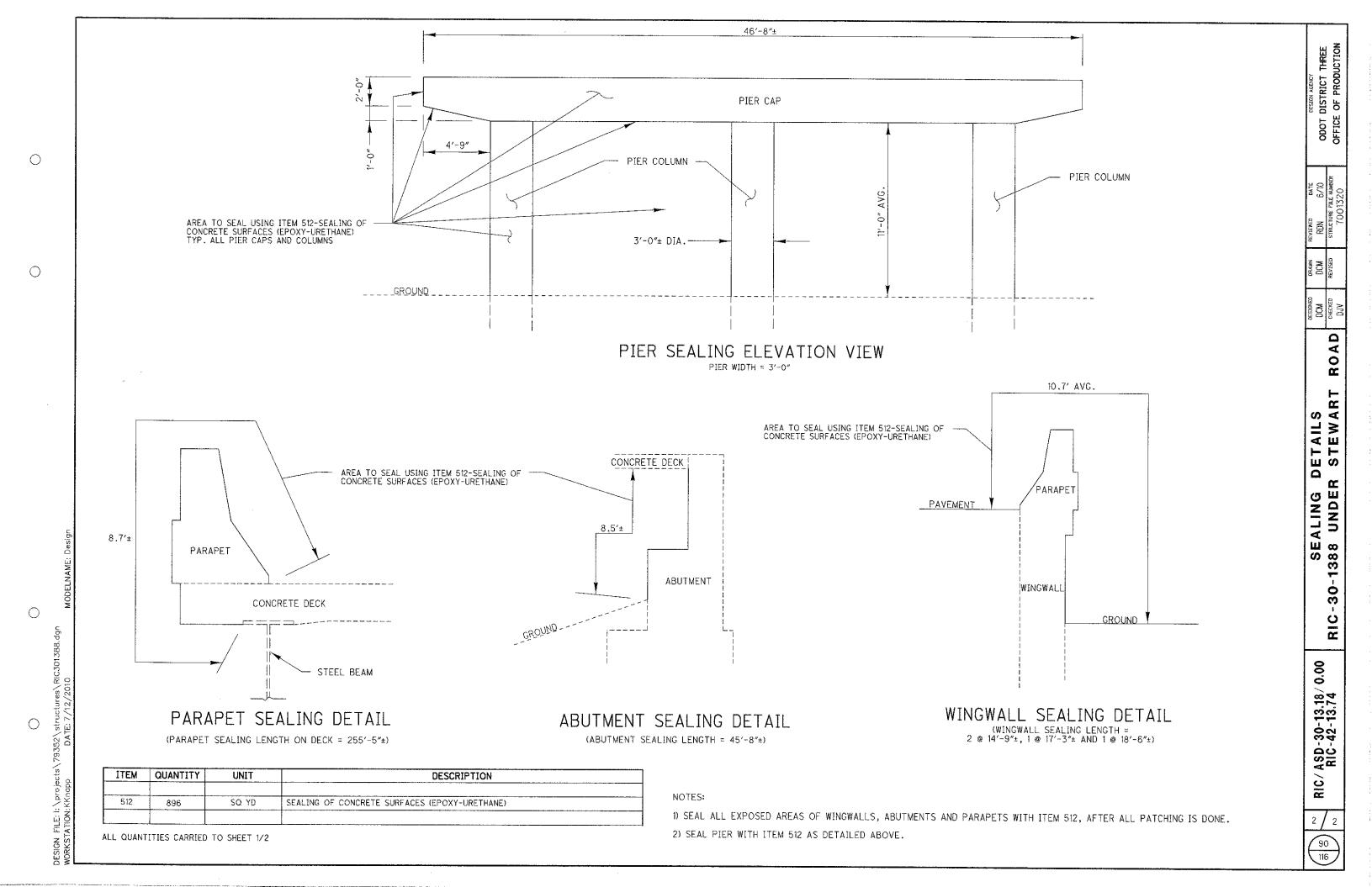
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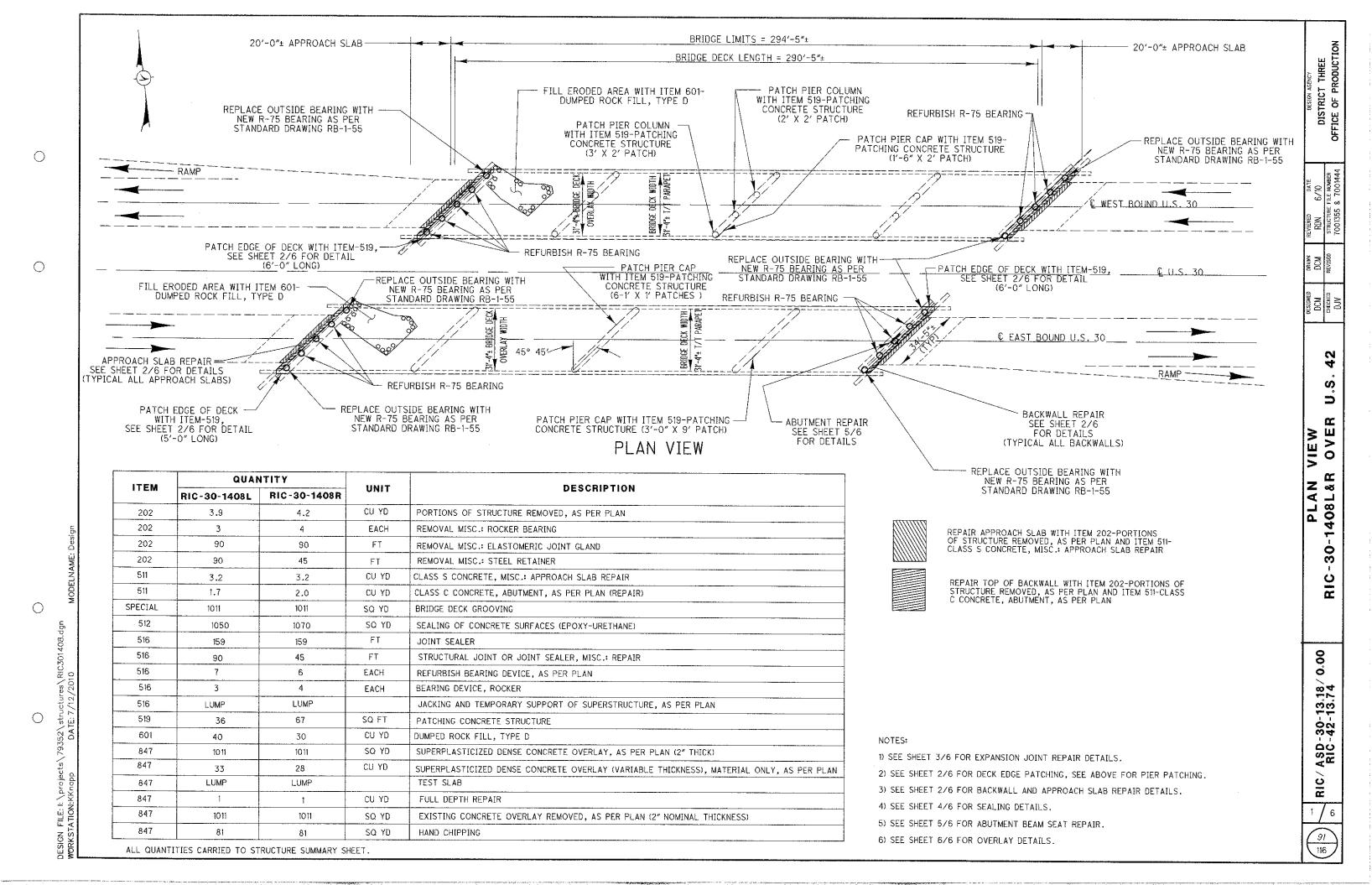
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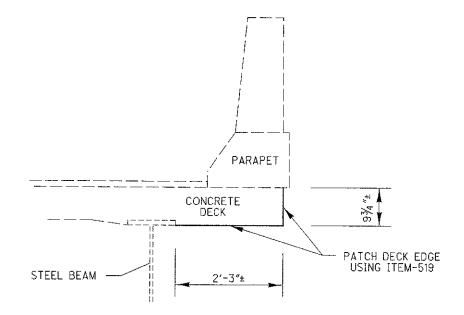


ABUTMENT/BACKWALL REPAIR AND JOINT SEALING DETAIL AT APPROACH SLAB

(BACKWALL REPAIR LENGTH = 34'-6"±)
(APPROACH SLAB REPAIR LENGTH = 34'-6"±)
(2-JOINT SEALING = 34'-6"±)

ABUTMENT/BACKWALL REPAIR AND JOINT SEALING DETAIL BEYOND APPROACH SLAB

(BACKWALL REPAIR LENGTH = 10'-6"± TOTAL/ABUTMENT) (1-JOINT SEALING = 10'-6"± TOTAL/ABUTMENT)



TYPICAL EDGE OF DECK PATCHING

(1-LOCATION LEFT STRUCTURE, 2 LOCATIONS RIGHT STRUCTURE SEE SHEET 1/6 FOR LOCATIONS AND LENGTHS)

NOTES:

1. SEE SHEET 1/6 FOR PIER PATCHING SIZES AND LOCATIONS

		QUANTITY			
RIC-	RIC-30-1408L	RIC-30-1408R	UNIT	DESCRIPTION	
202	3.9	3.9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	
202	90	90	FT	REMOVAL MISC.: ELASTOMERIC JOINT GLAND	
511	1.7	1.7	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	
511	3.2	3.2	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	
516	159	159	FT	JOINT SEALER	
519	19	34	SQ FT	PATCHING CONCRETE STRUCTURE	

ALL QUANTITIES CARRIED TO SHEET 1/6.

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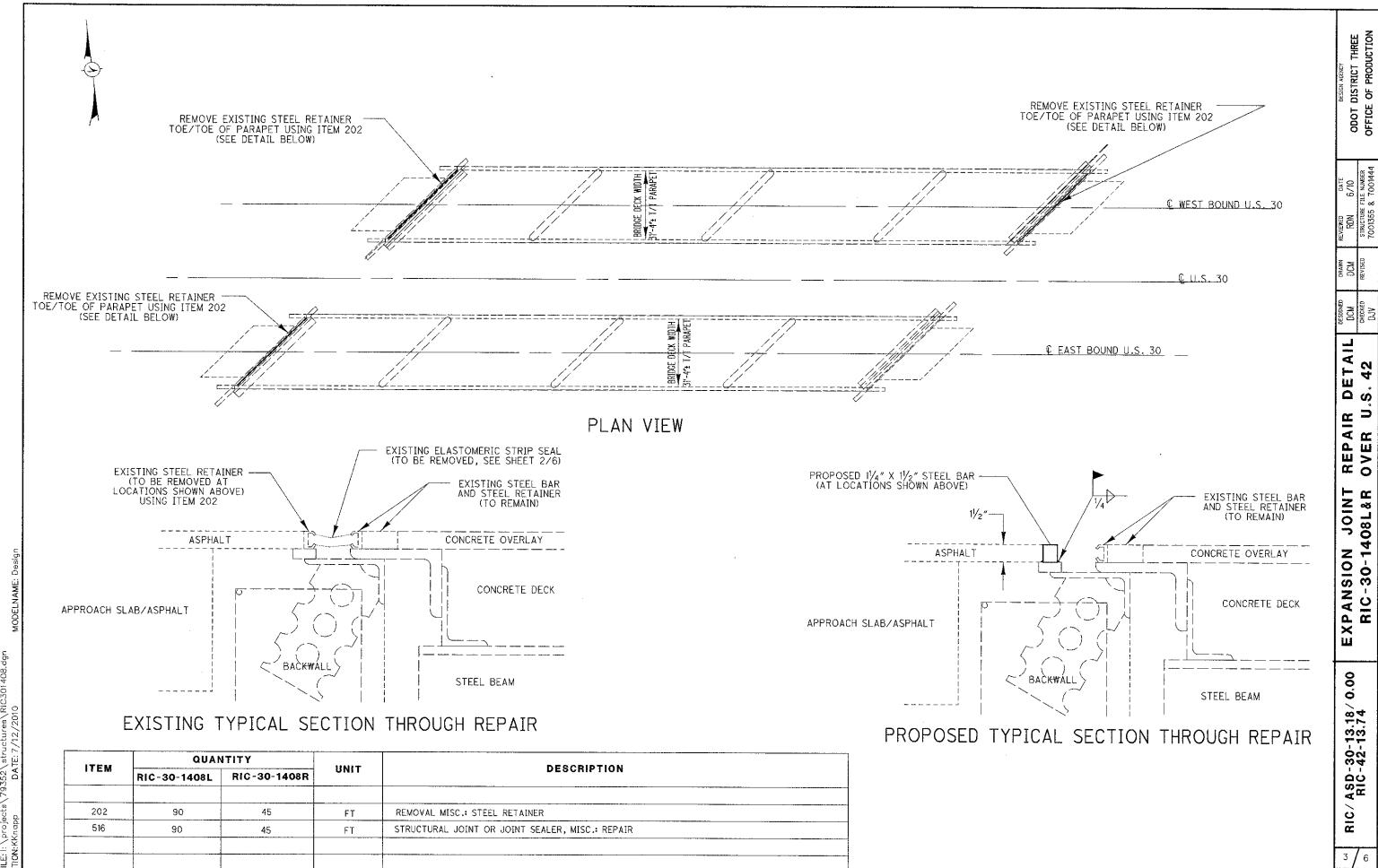
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DETAIL

SLAB AND BACKWALL REPAIR RIC-30-1408L&R OVER U.S. 42

APPROACH



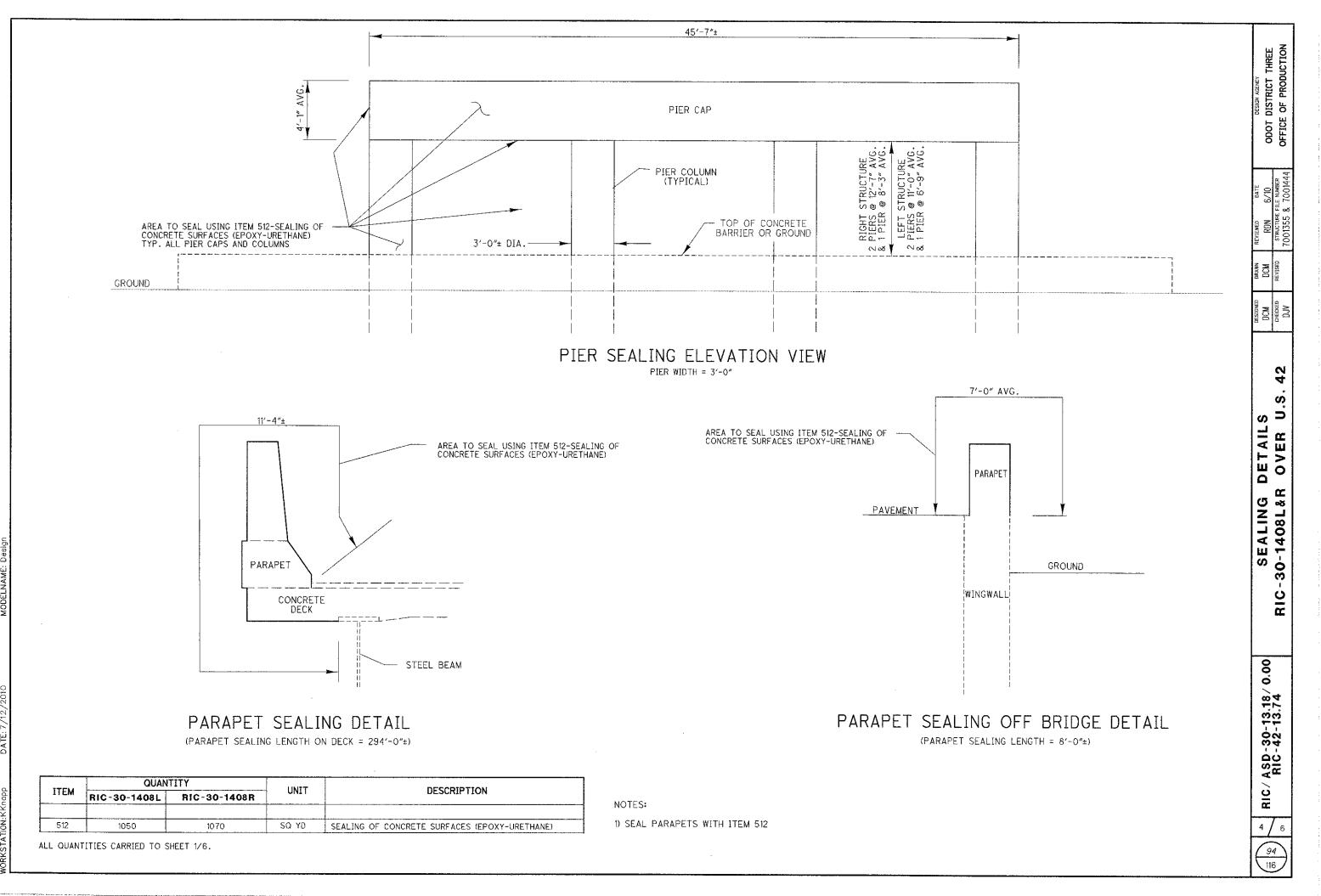
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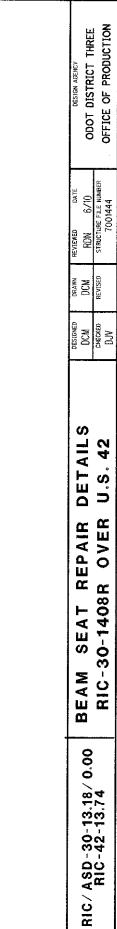
ALL QUANTITIES CARRIED TO SHEET 1/6.

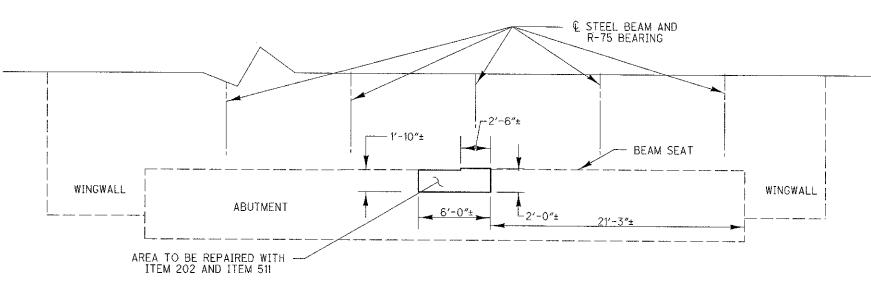


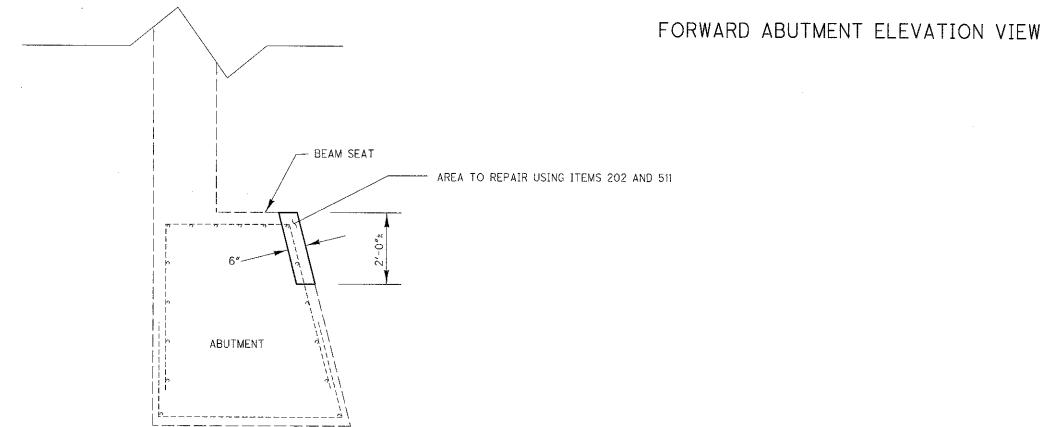
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SECTION VIEW THROUGH REPAIR

ITEM	QUANTITY	53AL170	DECORPTION		
11 EWI	RIC-30-1408R	UNIT	DESCRIPTION		
202	.3	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN		
511	.3	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)		

ALL QUANTITIES CARRIED TO SHEET 1/6.

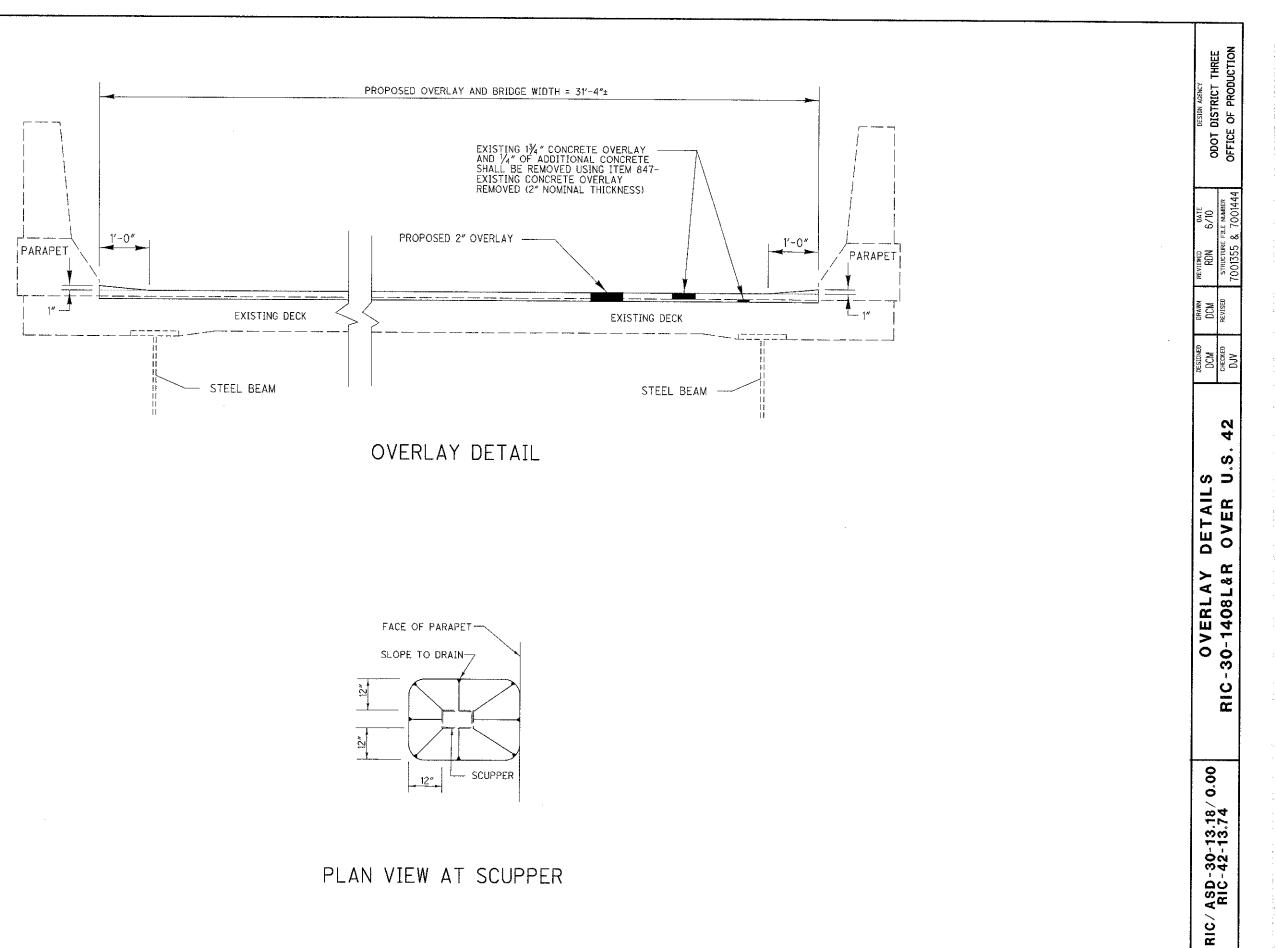
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NOTES:

1) ROCKER BEARING AND STEEL BEAM NOT SHOWN.

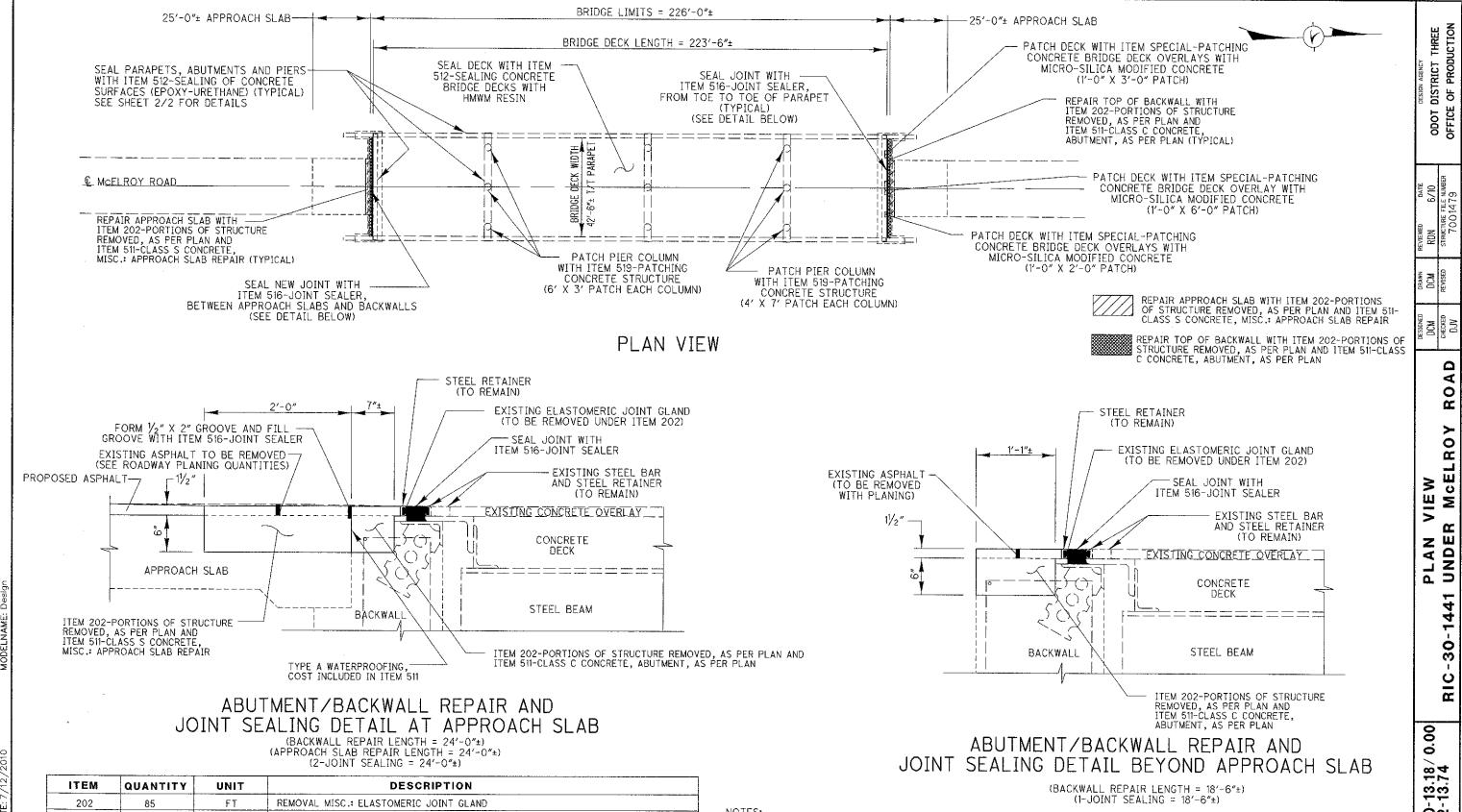
2) PRESERVE ALL EXISTING REINFORCING STEEL.



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202 3.1 CU YD PORTIONS OF STRUCTURE REMOVED, AS PER PLAN 511 CLASS C CONCRETE, ABUTMENT, AS PER PLAN 1.6 CU YD 511 2.3 CU YD CLASS S CONCRETE, MISC .: APPROACH SLAB REPAIR 512 847 SQ YD SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 512 1056 SQ YD SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN 516 133 FT JOINT SEALER

PATCHING CONCRETE STRUCTURE. AS PER PLAN

PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET.

SQ FT

SQ YD

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NOTES:

- 1. PATCH DECK WITH ITEM SPECIAL.
- 2. SEAL DECK WITH ITEM 512 AFTER DECK PATCHING IS COMPLETE.
- 3. PATCH 6 PIER COLUMNS WITH ITEM 519.
- 4. SEAL PIER COLUMNS, PARAPETS AND ABUTMENTS WITH ITEM 512 AFTER ALL PATCHING IS COMPLETE. SEE SHEET 2/2 FOR DETAILS.
- 5. REPAIR BACKWALLS AND APPROACH SLABS WITH ITEMS 202 AND 511.
- 6. REMOVE ELASTOMERIC JOINT GLANDS AND SEAL JOINTS WITH ITEM 516.

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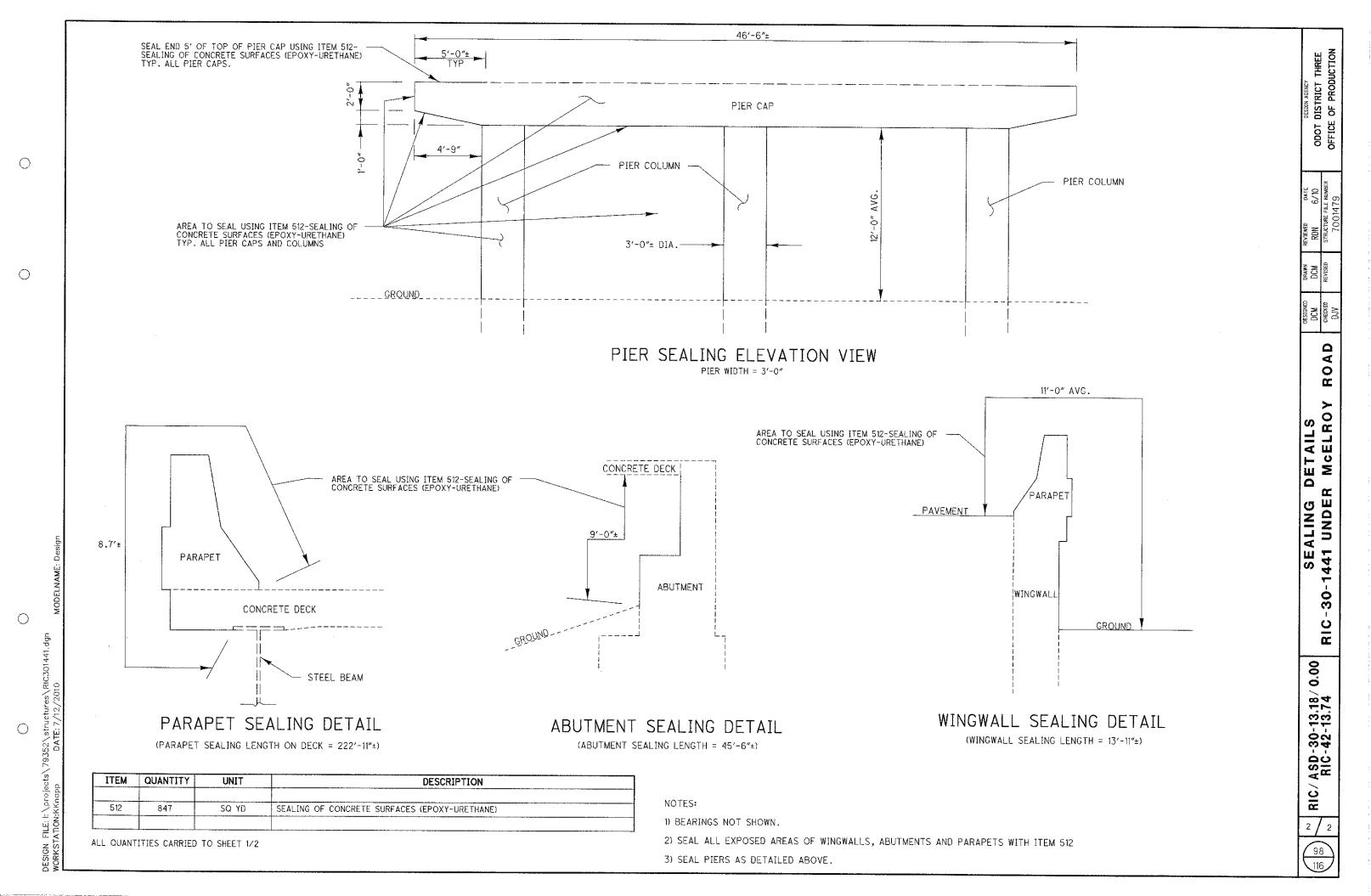
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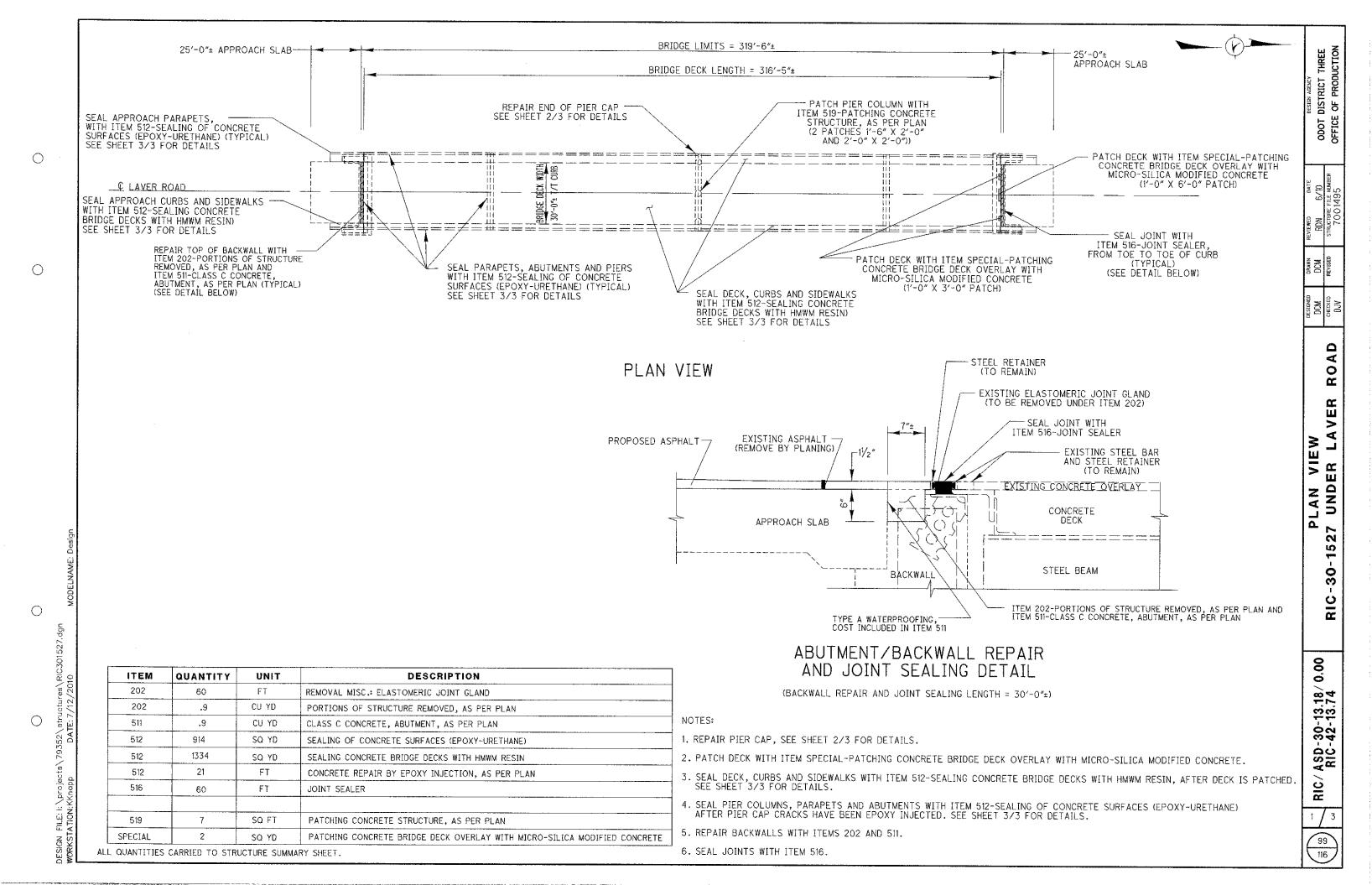
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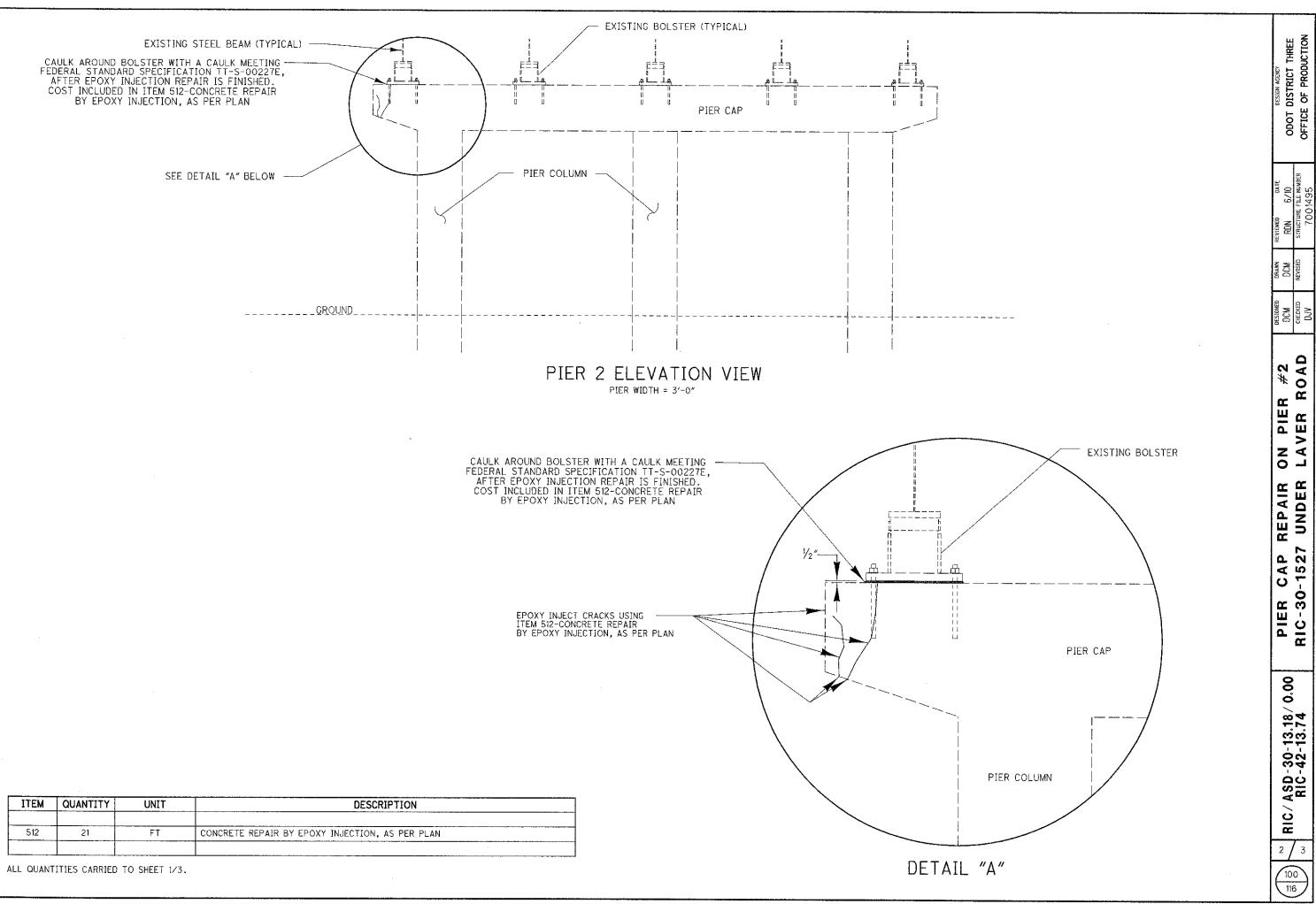
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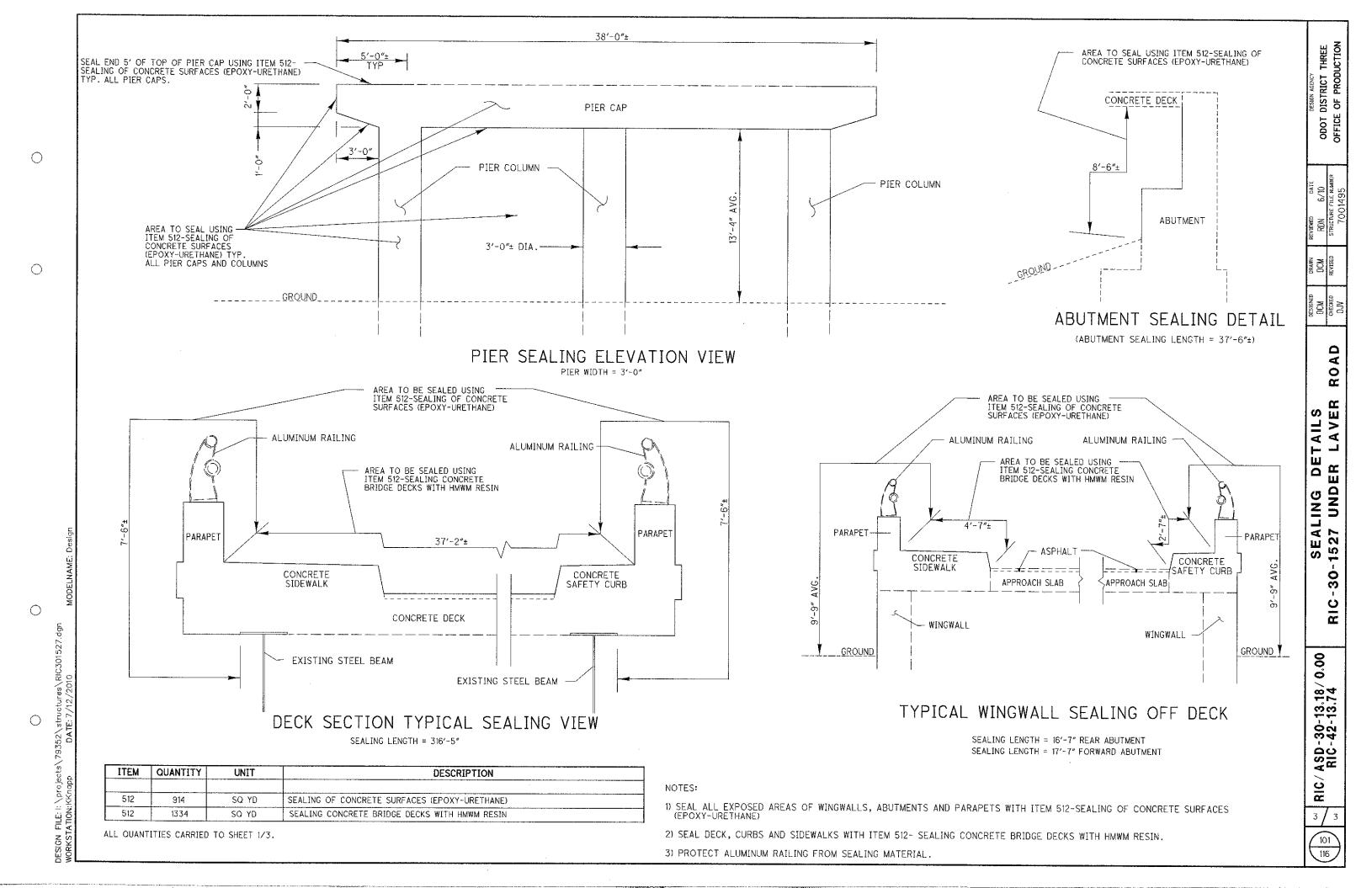
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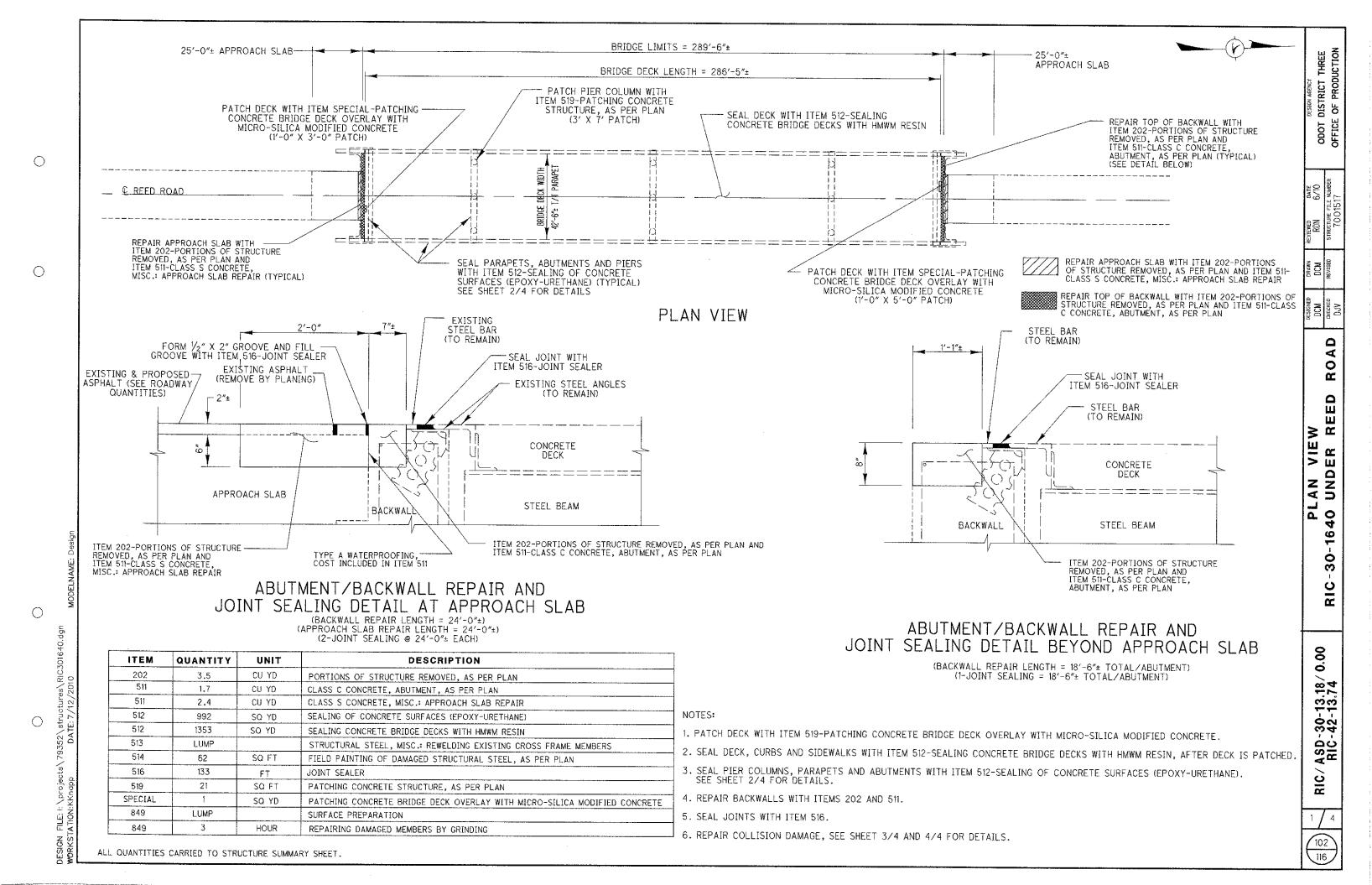
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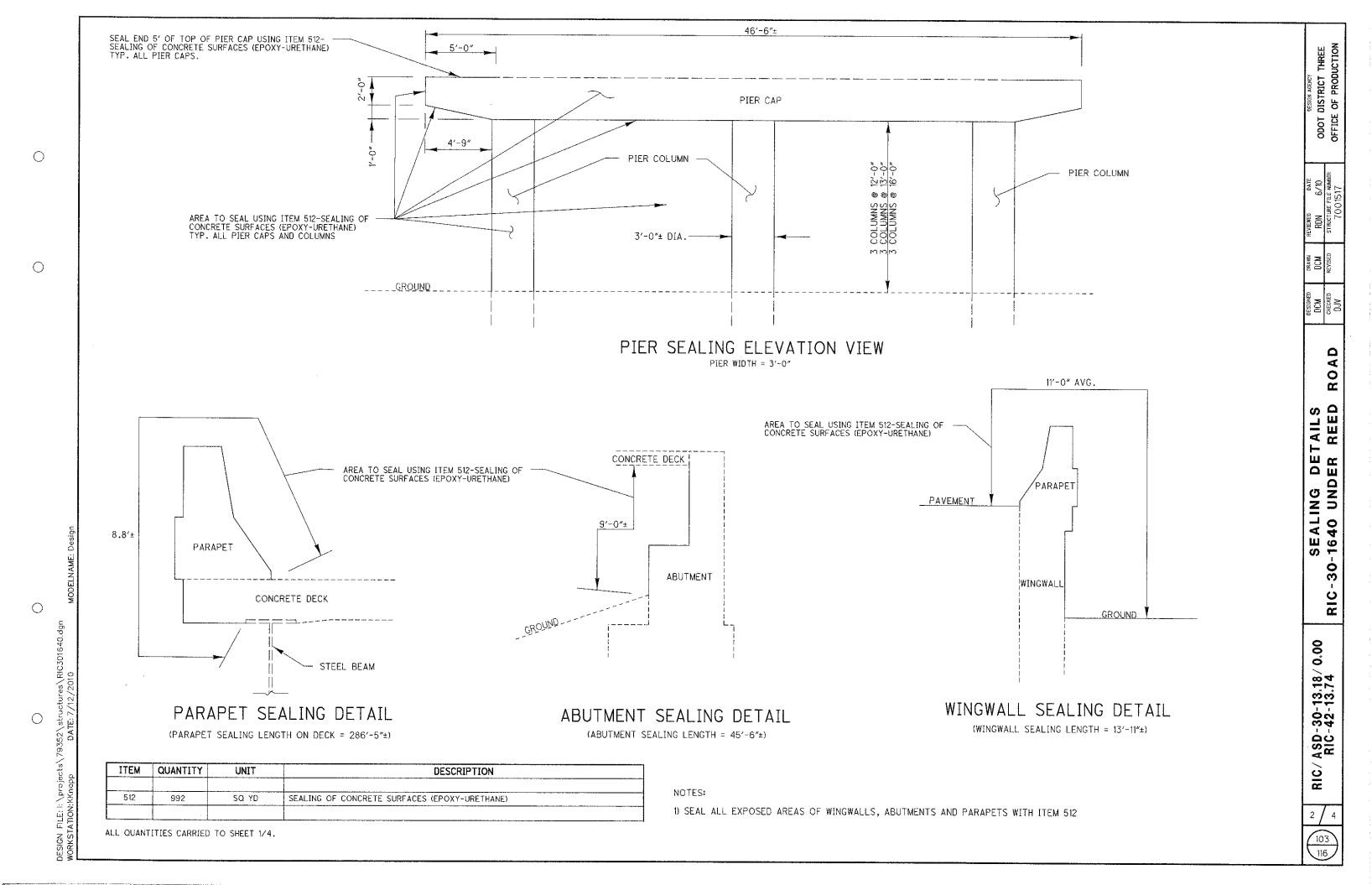
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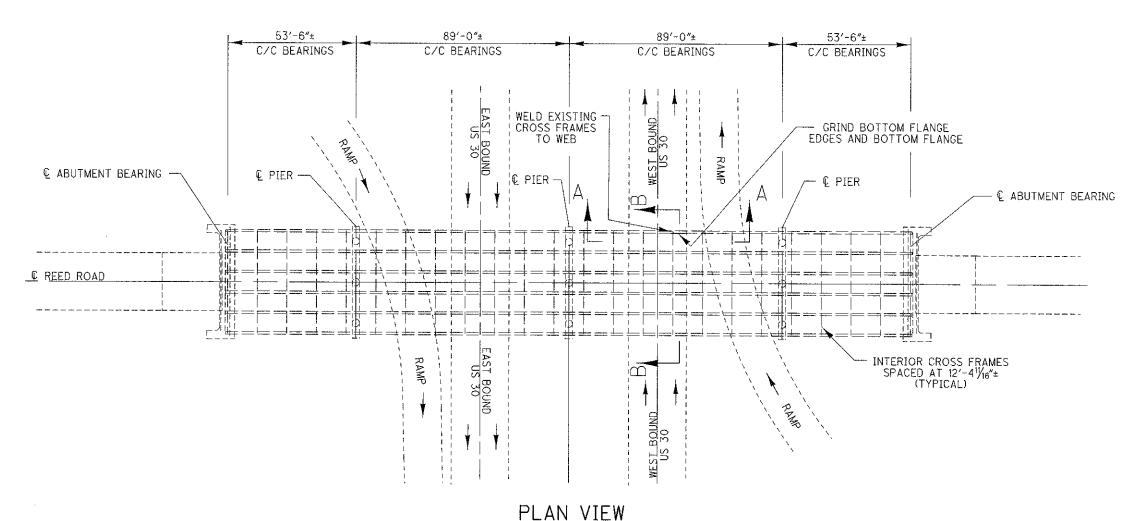
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ITEM	QUANTITY	UNIT	DESCRIPTION
513	LUMP		STRUCTURAL STEEL, MISC.: REWELDING EXISTING CROSS FRAME MEMBERS
514	62	SQ FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN
849	LUMP		SURFACE PREPARATION
849	3	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING

ALL QUANTITIES CARRIED TO SHEET 1/4.

NOTES:

- 1. SEE SHEET 4/4 FOR SECTIONS A-A AND B-B.
- 2. GRIND BOTTOM FLANGE AND BOTTOM FLANGE EDGES USING ITEM 849-REPAIRING DAMAGED MEMBERS BY GRINDING.
- 3. PERFORM SURFACE PREPARATION AS PER ITEM 849-SURFACE PREPARATION.
- 4. GRIND OFF EXISTING WELDS AND REWELD TWO CROSS FRAME MEMBERS AT LOCATIONS SHOWN BY USING ITEM 513-STRUCTURAL STEEL, MISC.: REWELDING EXISTING CROSS FRAME MEMBERS.
- 5. PAINT AREAS THAT ARE DAMAGED BY THE GRINDING AND WELDING USING ITEM 514-FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN.

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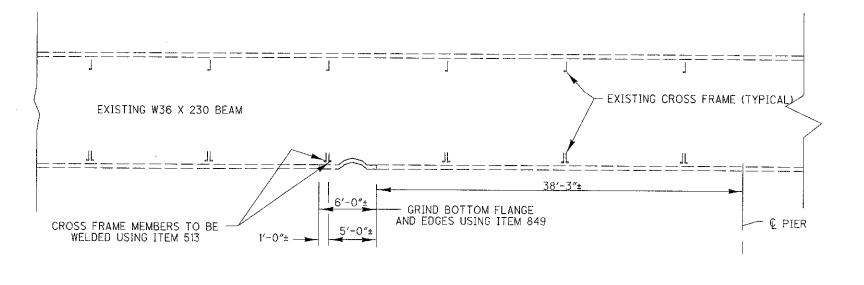
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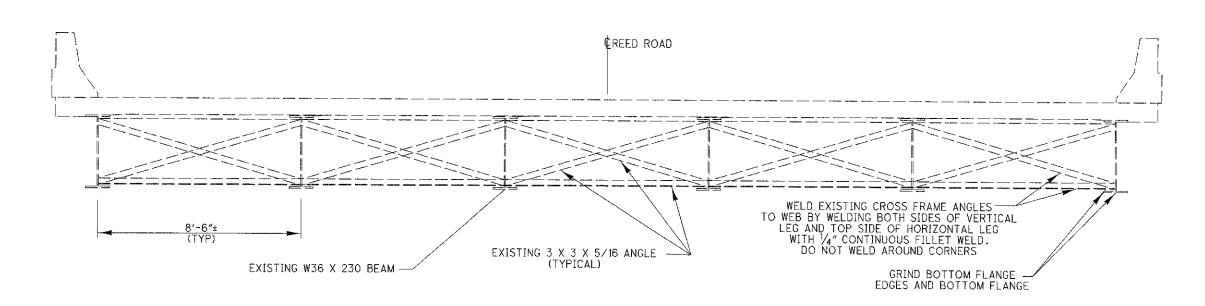
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SECTION A-A



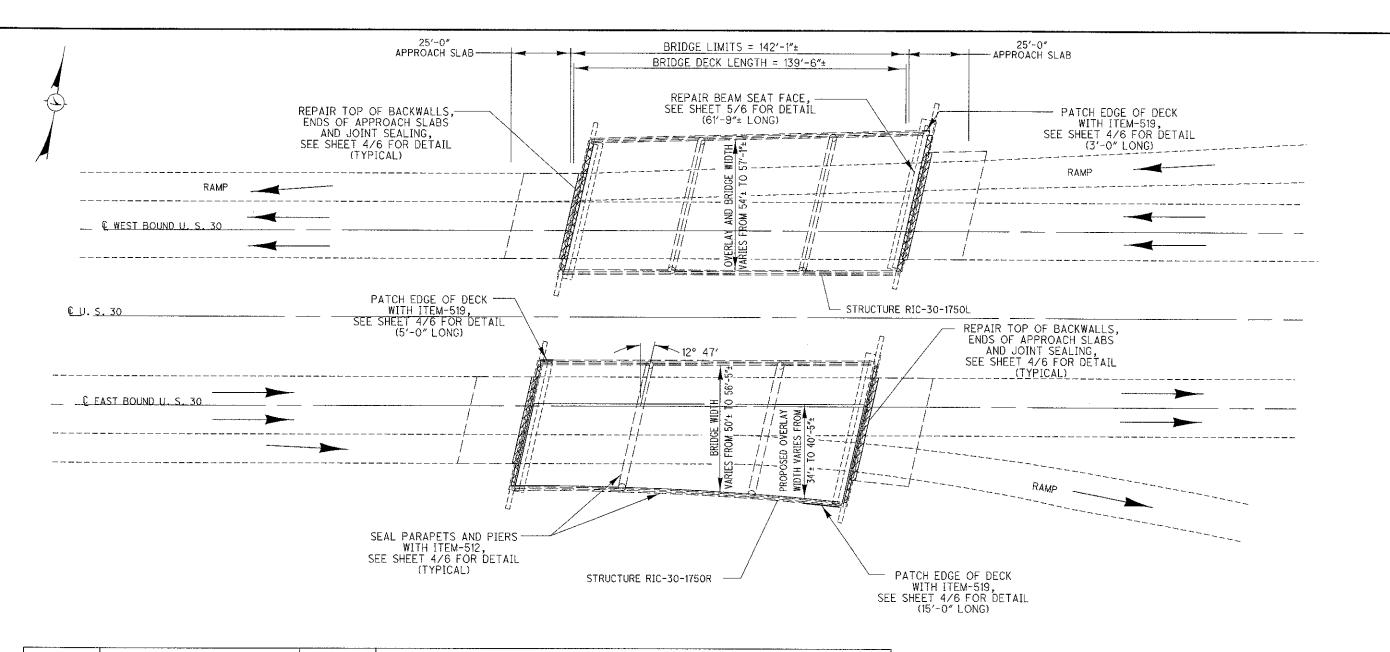
SECTION B-B

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ITEM		QUANTITY		DECODINE TION
II EM	RIC-30-1750L	RIC-30-1750R	UNIT	DESCRIPTION
202	8.6	4.7	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	4.2	3.8	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR
511	5.6	2	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)
SPECIAL	861	577	SQ YD	BRIDGE DECK GROOVING
512	548	536	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
516	203	191	FT	JOINT SEALER
518	14	14	EACH	SCUPPER LENGTHENING, AS PER PLAN
519	7	45	SQ FT	PATCHING CONCRETE STRUCTURE
847	861	577	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)
847	33	19	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
847	LUMP	LUMP		TEST SLAB
847	1		CU YD	FULL DEPTH REPAIR
847	861	577	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)
847	69	46	SQ YD	HAND CHIPPING .

NOTES:

- 1) SEE SHEET 6/6 FOR SCUPPER REPAIR DETAILS.
- 2) SEE SHEET 4/6 FOR DECK EDGE PATCHING.
- 3) SEE SHEET 4/6 FOR BACKWALL AND APPROACH SLAB REPAIR DETAILS.
- 4) SEE SHEET 3/6 FOR SEALING DETAILS.
- 5) SEE SHEET 5/6 FOR ABUTMENT BEAM SEAT REPAIR.
- 6) OVERLAY LEFT STRUCTURE FULL WIDTH, OVERLAY RIGHT STRUCTURE PARTIAL WIDTH, SEE SHEET 2/6 FOR OVERLAY DETAILS.

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET.

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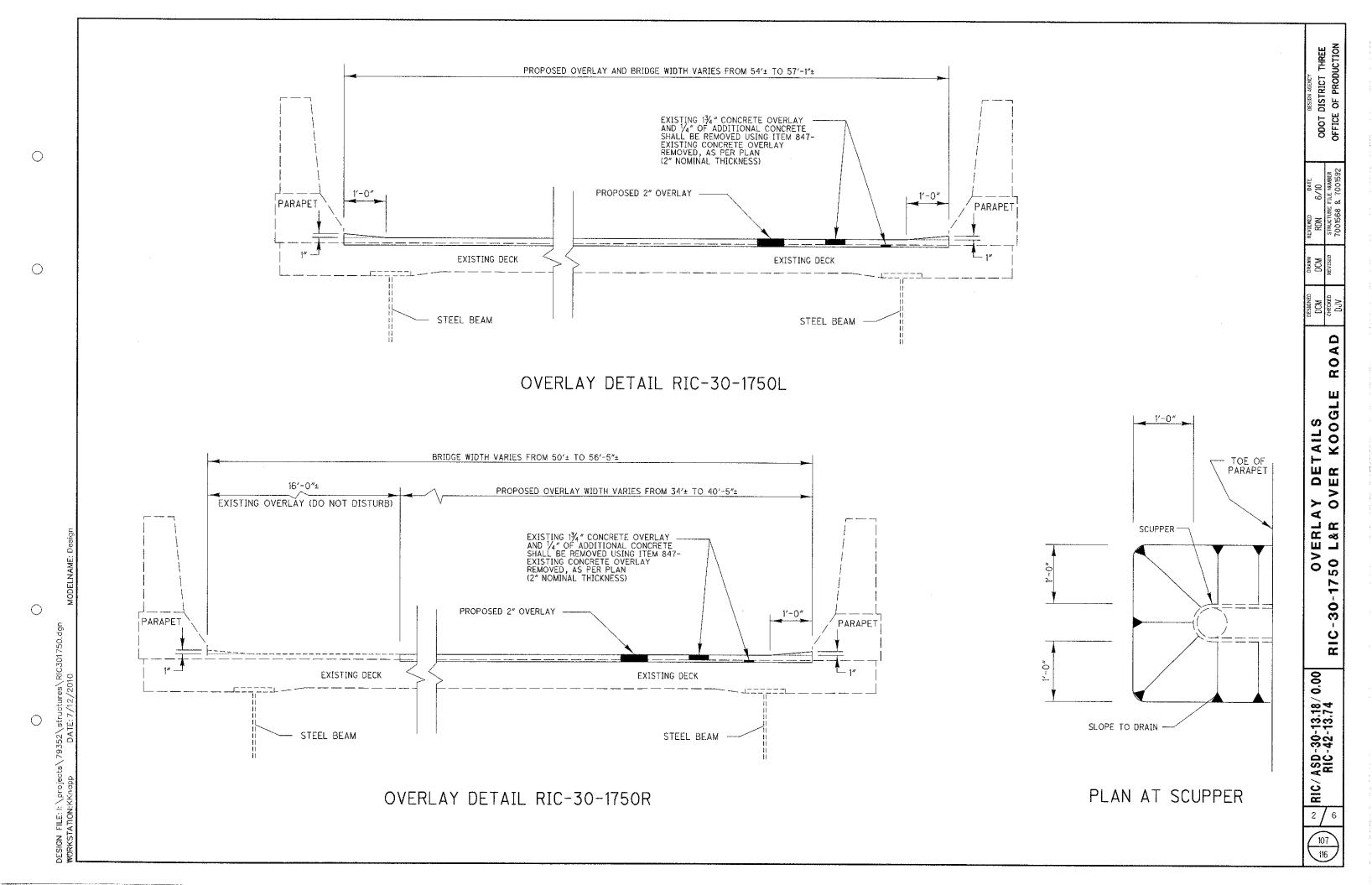
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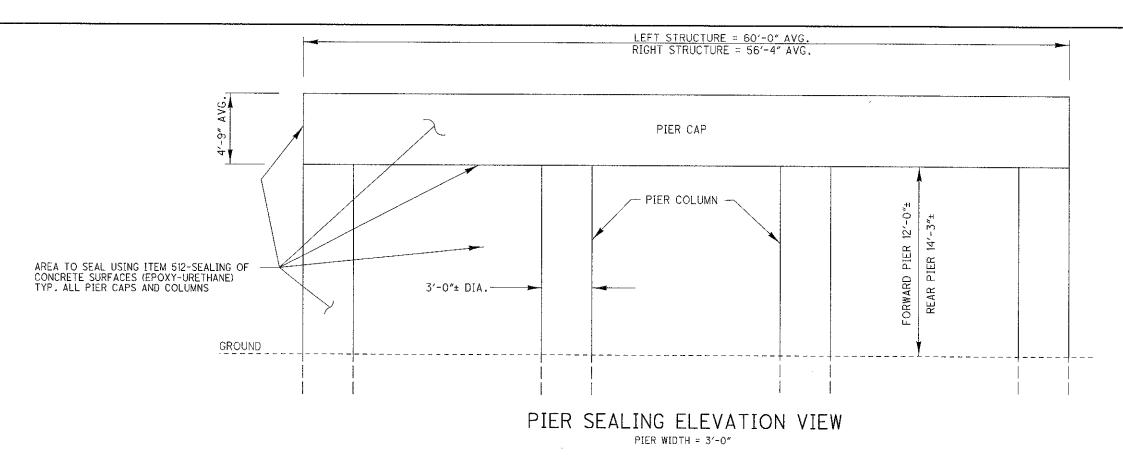
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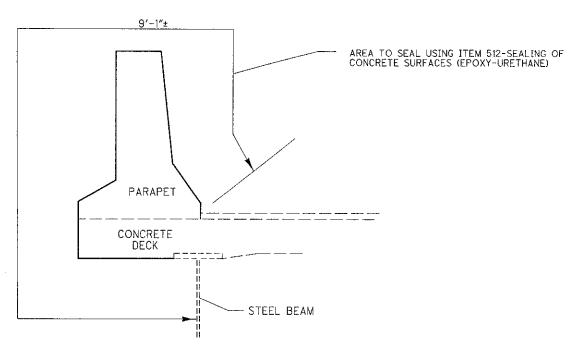
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PARAPET SEALING DETAIL

(PARAPET SEALING LENGTH = LEFT STRUCTURE = 139'-1"±) (PARAPET SEALING LENGTH = RIGHT STRUCTURE = 138'-2"±)

TTE LA	QUANTITY		QUANTITY UNIT		LINITT	DESCRIPTION	
ITEM	RIC-30-1750L	RIC-30-1750R	OMTI				
512	548	536	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			

NOTES:

1) SEAL PARAPETS WITH ITEM 512

ALL QUANTITIES CARRIED TO SHEET 1/6.

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SEALING DETAILS 50L&R OVER KOOGL

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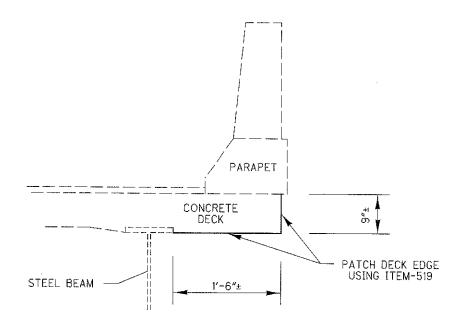
ABUTMENT/BACKWALL REPAIR AND JOINT SEALING DETAIL AT APPROACH SLAB

(BACKWALL REPAIR, APPROACH SLAB AND 2-JOINT SEALING LENGTH = 36'-11"± REAR RIGHT STRUCTURE)
(BACKWALL REPAIR, APPROACH SLAB AND 2-JOINT SEALING LENGTH = 43'-10"± FORWARD RIGHT STRUCTURE)
(BACKWALL REPAIR, APPROACH SLAB AND 2-JOINT SEALING LENGTH = 42'-9"± REAR LEFT STRUCTURE)
(BACKWALL REPAIR, APPROACH SLAB AND 2-JOINT SEALING LENGTH = 46'-6"± FORWARD LEFT STRUCTURE)

ITEM	QUANTITY		125117	DECODERTION	
() E.W	RIC-30-1750L	RIC-30-1750R	TINU	DESCRIPTION	
202	5	4.7	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	
511	4.2	3.8	CU YD	CLASS S CONCRETE, MISC.: APPROACH SLAB REPAIR	
511	2	2	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN	
512	203	191	FT	JOINT SEALER	
519	7	45	SQ FT	PATCHING CONCRETE STRUCTURE	

ABUTMENT/BACKWALL REPAIR AND JOINT SEALING DETAIL BEYOND APPROACH SLAB

(BACKWALL REPAIR AND 1-JOINT SEALING LENGTH = 14'-4"± TOTAL/ABUTMENT RIGHT STRUCTURE)
(BACKWALL REPAIR AND 1-JOINT SEALING LENGTH = 12'-3"± TOTAL/ABUTMENT LEFT STRUCTURE)



TYPICAL EDGE OF DECK PATCHING

(3- LOCATIONS, SEE SHEET 1/6 FOR LOCATIONS AND LENGTHS)

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ALL QUANTITIES CARRIED TO SHEET 1/6.

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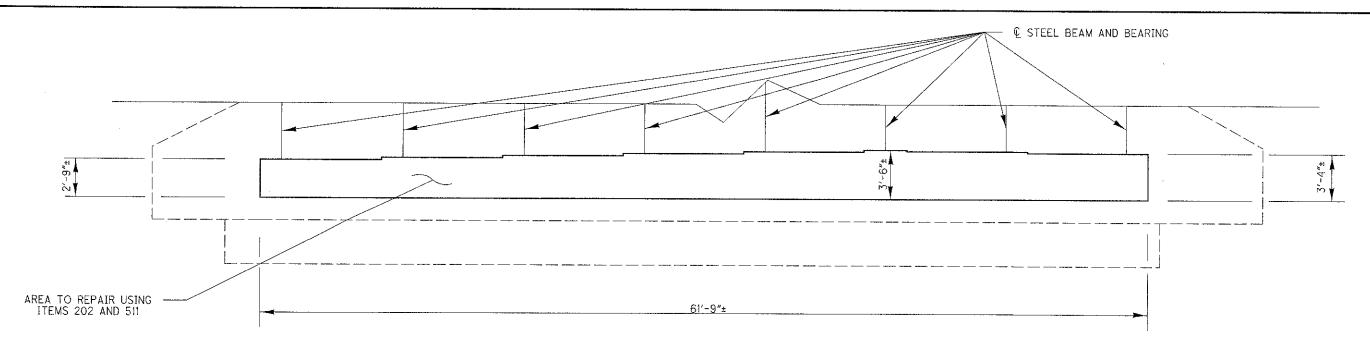
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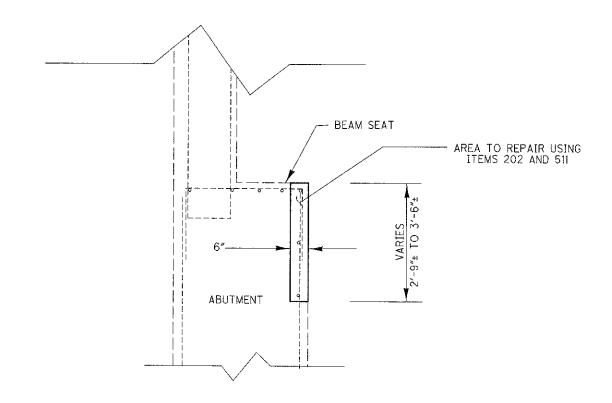
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REPAIR DETAIL 30-1750L&R OVER KO

RIC-



FORWARD ABUTMENT ELEVATION VIEW (LEFT STRUCTURE)



	QUANTITY RIC-30-1750L	UNIT	DESCRIPTION	
ITEM				
202	3.6	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	
511	3.6	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	

SECTION VIEW THROUGH REPAIR

NOTES:

1) BEARING AND STEEL BEAM NOT SHOWN

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ALL QUANTITIES CARRIED TO SHEET 1/6.



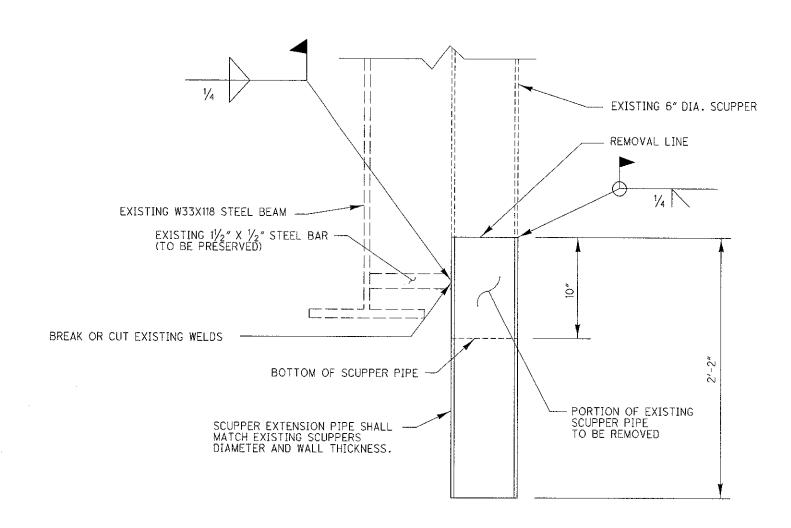
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ODOT DISTRICT THREE OFFICE OF PRODUCTION

REPAIR DETAILS VER KOOGLE ROAD

BEAM SEAT RIC-30-1750L C

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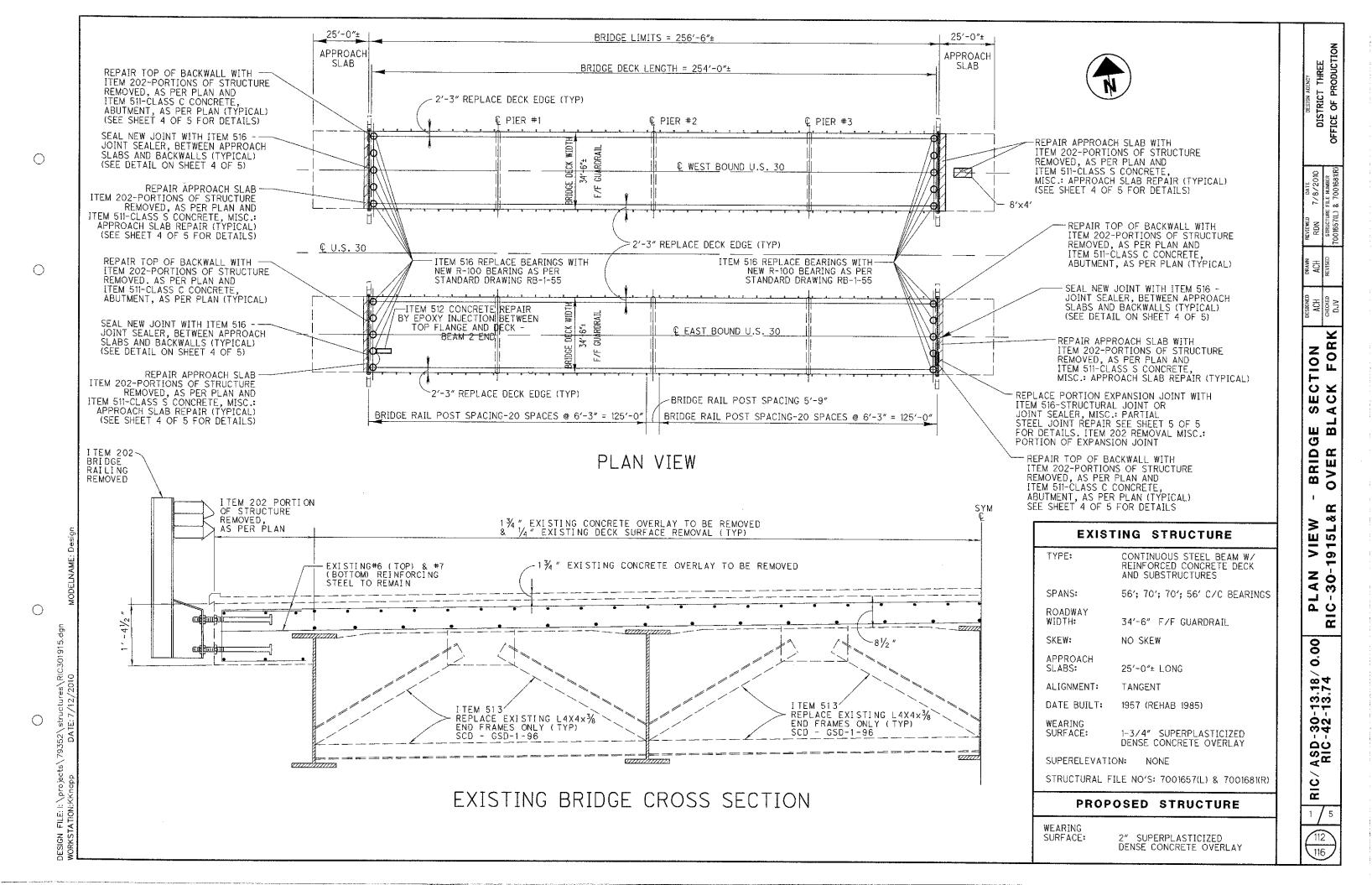
SCUPPER LENGTHENING

STEM	QUANTITY		111114	DECOMPTION
ITEM	RIC-30-1750L	RIC-30-1750R	UNIT	DESCRIPTION
518	14	14	EACH	SCUPPER LENGTHENING, AS PER PLAN

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ITEM	QUAI	NTITY	UNIT	DESCRIPTION
	RIC-30-1915L	RIC-30-1915R		
202	10.3	5.8	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	56.4	56.4	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (DECK EDGE)
202	523	523	FT	BRIDGE RAILING REMOVED
202		LUMP		REMOVAL MISC.: PORTION OF EXPANSION JOINT
202	10	10	EACH	REMOVAL MISC.: ROCKER BEARINGS
202	69	69	FT	REMOVAL MISC.: ELASTOMERIC COMPRESSION SEAL
509	10337	10337	POUND	EPOXY COATED REINFORCING STEEL
511	62.2	62.2	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (REPAIR OR RECONSTRUCTION
511	5.1	3.4	CU YD	CLASS S CONCRETE MISC.: APPROACH SLAB REPAIR
511	5.2	2.4	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)
SPECIAL	974	974	SQ YD	BRIDGE DECK GROOVING
512		20	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN
513	1738	1738	POUND	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN
513	LUMP	LUMP		STRUCTURAL STEEL, MISC.: WELDING CRACKED EXPANSION ANGLE
514	407	40.7	CA FT	CUPTAGE PREPARATION OF EMOTING OFFICE
514	1127	1127	SQ FT SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN
514	1127	1127	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN
514	1127	1127	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN
514	4	4	MAN HOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL
516	69	69	FW	FLACTOUEDTO COMPRESSION SELL LO DES SILVI
516			FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN
310		6	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: PARTIAL STEEL JOINT REPAIR
516	69	69	FT	JOINT SEALER
516	10	10	EACH	BEARING DEVICE, ROCKER
516	LUMP	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
517	521.34	521.34	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN
SPECIAL	628	628	FT	STEEL DRIP STRIP
847	974	974	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)
847	32	32	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN
847	LUMP	LUMP		TEST SLAB
847	974	974	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)
847	78	78	SQ YD	HAND CHIPPING

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET.

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