COURSE. 9.5MM. TYPE A (448) THIS ITEM SHALL BE USED FOR CORRECTION OF CROWN, PROFILE AND ANY OTHER IRREGULARITIES. THE AVERAGE THICKNESS SHALL BE 0.75".

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC. THE COST OF THIS WORK AND THE PLACEMENT OF THE "UNEVEN PAVEMENT" SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

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

ITEM 302 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN

ON THIS PROJECT 302 COARSE AGGREGATE WILL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT

WILL BE 20%. ENSURE THAT A MINIMUM OF 50% OF THE

WHERE 302 ASPHALT CONCRETE BASE, PG64-22, AS PER

PLAN MATERIAL MEETS EXISTING ASPHALT OR CONCRETE PAVEMENT, PG GRADE LIQUID ASPHALT SHALL BE USED TO COAT THE VERTICAL FACE INSTEAD OF TACK COAT MATERIAL.

AS PER 407.06 THE APPLICATION RATES SHALL BE 0.08 GAL. PER SO. YD. PRIOR TO THE LEVELING COURSE AND SHALL BE 0.03 GAL PER SO. YD. PRIOR TO THE SURFACE COURSE

FOR ESTIMATING PURPOSES ONLY. FOR TACK COAT, 702.13
APPLICATION RATE SHALL BE 0.08 GAL. AND THIS SHALL BE
PLACIT ON THE CONCRETE BASE ON SR 94 FULL DEPTH AREA.
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 RECOATED PRIOR TO PLACING ASPHALT CONCRETE.
ALL COST 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.

FOR ESTIMATING PURPOSES ONLY. FOR TACK COAT, 702.13

VIRGIN FINE AGGREGATE USED IN THE 301 IS SAND

MANUFACTURED FROM STONE OR AIR COOLED SLAG.

ALL COSTS TO BE INCLUDED IN ITEM 302 ASPHALT

ITEM 407. TACK COAT FOR INTERMEDIATE COURSE

ITEM 442. ASPHALT CONCRETE SURFACE COURSE.

ONLY REMAIN WHILE THE CONDITION EXISTS.

ITEM 442. ASPHALT CONCRETE INTERMEDIATE

ALL LONGITUDINAL PAVEMENT JOINTS SHALL BE CLOSED

BEFORE THE END OF EACH WORK DAY. BEFORE THE JOINT IS EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL ERECT OWP-171 (UNEVEN PAVEMENT) SIGNS. THESE SIGNS SHALL

ALL CPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC.

IN AUDITION TO SECTION 401.14 AND STANDARD DRAWING BP-3.1, TRANSVERSE, FEATHERED, OR BUTT JOINTS SHALL BE SEALED WITH A 6 INCH WIDE BAND OF ASPHALT CEMENT ACROSS THE

TOP SURFACE. THE LONGITUDINAL BUTT JOINT SHALL BE SEALED WITH ASPHALT CEMENT ON THE VERTICAL FACE AND 6 INCHES WIDE ON THE PLANED SURFACE BEFORE PAVING.

CONCRETE BASE, PG64-22, AS PER PLAN.

ITEM 407. TACK COAT

12.5MN. TYPE A (446)

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

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT WILL BE 20%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE 301 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG. ALL COSTS TO BE INCLUDED IN ITEM 301 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN.

BEFORE THE LONGITUDINAL JOINT IS EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL ERECT OWP-171 (UNEVEN PAVEMENT) SIGNS. THESE SIGNS SHALL ONLY REMAIN WHILE THE

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (OW-62) SHALL BE ERECTED ON EACH SIDE OF TRANS-VERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN, AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

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

ALL REQUIREMENTS OF 442 PREVIOUSLY STATED APPLY EXCEPT AS FOLLOWS. FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. MINIMUM PG BINDER CONTENT IS 6.0 PERCENT. USE A PG 64-22 BINDER. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.

ITEM 442. ASPHALT CONCRETE INTERMEDIATE COURSE. 19MM. TYPE A (448). AS PER PLAN

ALL REQUIREMENTS OF 442 PREVIOUSLY STATED APPLY EXCEPT AS FOLLOWS. FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. USE A PG 64-22 BINDER. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.

ITEM 448. ASPHALT CONCRETE SURFACE COURSE. TYPE I. PG64-22 (DRIVEWAYS):

THIS ITEM OF WORK SHALL BE USED AT THE LOCATIONS OF PAVED DRIVEWAYS. ALL LABOR, MATERIAL, AND EQUIPMENT NEEDED TO PLACE AN ASPHALT SURFACE COURSE FOR THE ASPHALT DRIVEWAYS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22: (DRIVEWAYS)

ITEM 604. CASTINGS ADJUSTED TO GRADE:

ANY UNIT OF THIS ITEM MAY BE NON PERFORMED IF SO DIRECTED BY THE ENGINEER AND THE SURFACE SHALL BE FEATHERED TO MEET THE EXISTING CASTING OR INLET IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL ADJUSTING RINGS SHALL HAVE THE ENGINEER'S APPROVAL BEFORE USING.

UNDER ITEM 604.03, ADJUSTMENT TO GRADE, PARAGRAPH (A), THE CASTING TO BE ADJUSTED MAY OR MAY NOT HAVE AN EXISTING FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING CASTING OR GRATE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIAL REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT FRAMES.

TEM 604 CATCH BASIN ADJUSTED TO GRADE- 23 EACH ITEM 604 MANHOLE ADJUSTED TO GRADE- 2 EACH

ITEM 604. MONUMENT ASSEMBLY REMOVED AND RESET

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO REMOVE AND RESET MONUMENT ASSEMBLIES IN THE FULL DEPTH PAVEMENT REPLACEMENT AREA ON SR 94. PART B.

ALL LABOR AND MATERIALS SHALL BE INCLUDED IN THE BID PRICE TO COMPLETE THIS ITEM.

3 EACH ITEM 604, MONUMENT ASSEMBLY, REMOVED AND RESET

ITEM 617. COMPACTED AGGREGATE. TYPE A. 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 THE ASPHALT CONCRETE GRINDINGS RESULTING FROM ITEM 254. THE GRINDINGS USED FOR THIS WORK ARE TO BE PLACED AND COMPACTED AS DESCRIBED IN 617.05 WITH SPECIAL CARE TO CREATE PROPER COMPACTION. 100% OF THIS MATERIAL SHALL PASS A 1.5 INCH SIEVE AS JUDGED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO MEET THE TYPICAL SECTIONS SHOWN IN THE PLANS AND AS DIRECTED BY THE FINGINEER. BY THE ENGINEER.

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

703.05 AGGREGATE FOR ASPHALT CONCRETE (INTERMEDIATE AND SURFACE COURSES)

REMOVE THE PHRASE "THAT WILL BE EXPOSED TO TRAFFIC OVER THE WINTER MONTHS" FROM ITEMS b. AND c. OF C. GENERAL REQUIREMENTS FOR COURSE AND FINE AGGREGATE OF 703.05 (PAGE 767 OF THE 2002 CONSTRUCTION AND MATERIAL SPECIFICATIONS).

ITEM SPECIAL - MISC. ASPHALT GRINDINGS

FROM THE ASPHALT GRINDINGS GENERATED ON THIS PROJECT, 5000 CU YDS TOTAL SHALL BE DELIVERED BY THE CONTRACTOR TO THE MEDINA COUNTY ODOT PROPERTY LOCATED AT 3320 MEDINA RD., SR 18, MEDINA, OH 44256.

THE CONTRACTOR SHALL DELIVER 2500 CU YDS IN 2004 AND 2500 CU YDS IN 2005.

ODOT WILL PROVIDE THE EXACT LOCATION OF THE STORAGE AREA ON THE PROPERTY TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. THE GRINDINGS ARE NOT TO BE DELIVERED WET. THE GRINDINGS ARE TO BE DELIVERED BETWEEN THE HOURS OF 7:30 AM AND 3:30 PM.

THE MATERIAL IN THIS ITEM WILL BE PAID FOR BY THE CU YD. AND ALL ASSOCIATED COSTS TO LOAD AND TO DELIVER TO THE SITE SHALL BE INCLUDED IN ASPHALT GRINDINGS FOR PAYMENT. PAY SHALL BE BY CU YD PER ITEM SPECIAL, MISC. ASPHALT GRINDINGS.

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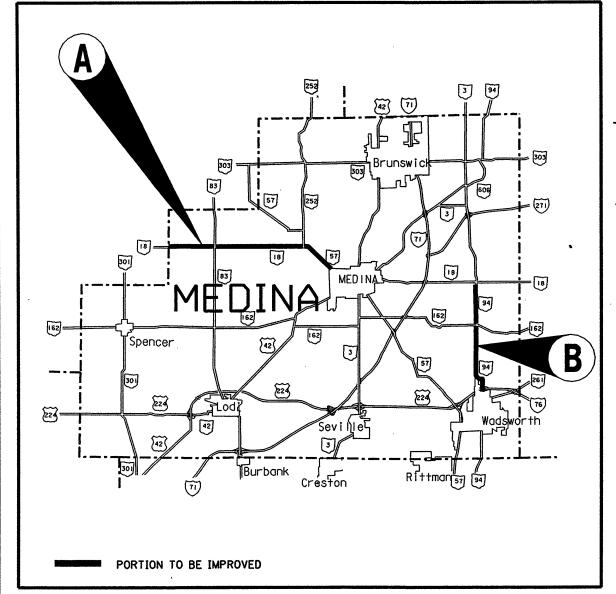
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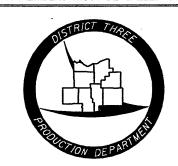
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LOCATION MAP



LATITUDE: N41°10'05"

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



LONGITUDE: W82°04'24"

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В	MEDINA	SR 94	5.50	5.53	7.45	1.92		
В	MEDINA	SR 94	5.50-10.58	8.10	11.01	2.91		

WORK AS DETAILED IN THE PLANS.

INDEX OF SHEETS:

- TITLE SHEET

OHIO DEPARTMENT OF TRANSPORTATION

DESIGN DESIGNATIONS

- STRAIGHT LINE DIAGRAM

- PAVEMENT TYPICAL SECTIONS

GENERAL NOTES

3

MAINTENANCE OF TRAFFIC NOTES & DETAILS

GENERAL SUMMARY PAVEMENT DATA 17

SHOULDER DATA

- LITCHFIELD ROADWAY SUB-SUMMARY

- LITCHFIELD CIRCLE DETAILS 21-32

33-34 DRIVE DETAILS

35 MAILBOX FACILITIES

36 DROP OFF IN WORK ZONE DETAILS

GUARDRAIL GENERAL NOTES 37-38

GUARDRAIL ESTIMATED QUANTITIES 39

40-48 - GUARDRAIL DETAILS

- PAVEMENT MARKING INFORMATION

- CURB RAMP DETAILS AND QUANTITIES

CURB RAMP PLAN INSERT SHEETS

CULVERT 0285 & 4.25 TYPICAL SECTIONS

CULVERT GENERAL NOTES

CULVERT MAINT. OF TRAFFIC NOTES AND DETAILS

CULVERT SUMMARY & CALCULATIONS MED-18-0285

PLAN AND PROFILE MED-18-0285

71 CULVERT MED-18-0285 ESTIMATED QUANTITIES

72-75 CROSS SECTIONS MED-18-0285

CULVERT AND HEADWALL DETAILS MED-18-0285 76-81

CULVERT SUMMARY & CALCULATIONS MED-18-4.25 82

PLAN AND PROFILE MED-18-4.25 83-84

85-91 CROSS SECTIONS MED-18-4.25

CULVERT AND HEADWALL DETAILS MED-18-4.25 92-97

- STRUCTURE SUMMARY 98-100

101-103 - STRUCTURE GENERAL NOTES

104-105 BRIDGE TREATMENT

- STRUCTURE DETAILS AND MAINT. OF TRAFFIC

- RIGHT OF WAY PLANS

CONVERSION OF METRIC STANDARD DRAWINGS

REPLACEMENT OF THE CULVERT MED-18-4.25 AND VARIOUS OTHER STRUCTURE

PROJECT DESCRIPTION: THIS PROJECT WILL INCLUDE RESURFACING WITH AN

INTERMEDIATE AND A SURFACE COURSE OF ASPHALT CONCRETE, FULL DEPTH ASPHALT REPLACEMENT, PAVEMENT REPAIR, PAVEMENT PLANING, ADJUSTMENT

OF CASTINGS WHERE NECESSARY, PAVEMENT MARKINGS, GUARDRAIL

RECONSTRUCTION, REPLACEMENT OF STRUCTURE MED-18-0285, AND THE

THE METRIC STANDARD DRAWINGS

THE METRIC STANDARD DRAWINGS

SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC)

TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02

OF THE 2002 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CONVERSIONS SHALL BE APPROXIMATELY PRECISE AND SHALL

REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

PROJECT EARTH DISTURBED AREA = 14.0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA = 1.25 ACRES NOTICE OF INTENT EARTH DISTURBED AREA = 15.25 ACRES

2002 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 AS PER THE DETOUR NOTES ON SHEETS 10-13, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL, BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED DATE DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN EXCEPTIONS

DESIGN FEATURE

APPROVAL DATE 4/04/02

GRADED SHOULDER SR 18 & SR 94 WIDTH LANE WIDTH

SR 18 & SR 94

4/04/02

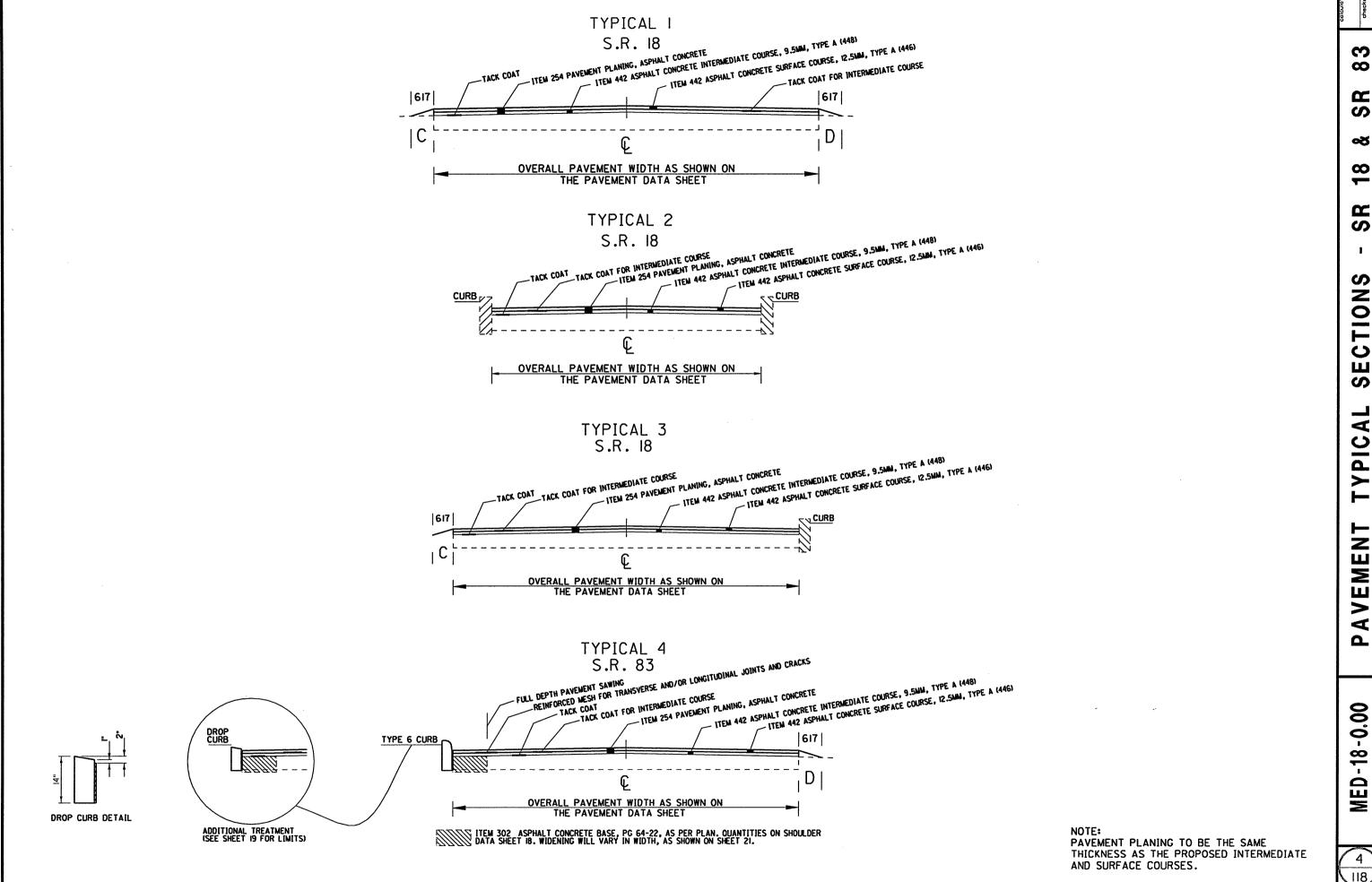
FOR DESIGN DESIGNATIONS SEE SHEET 2

	STA	ANDARD	CONST	RUCTION	DRAWI	NGS		1	EMENTAL ICATIONS
BP-3.1	7-28-00	RM-I.I	4-18-03	TC-41.50	7-18-03	MT-95.31	4-19-02	802	7-19-02
BP-4.I	7-28-00	RM-4.2	4-18-03	TC-65.10	10-19-01	MT-95.32	4-19-02	832	2-12-03
				TC-65.12	10-19-01	MT-96.10	4-19-02	833	2-12-03
GR-I.I	4-18-03	CB-I.I	7-19-02	TC-71.10	4-19-02	MT-96.11	4-19-02	841	4-19-02
GR-2.I	4-18-03	CB-2.2	7-19-02	TC-73.10	1-19-01	MT-96.20	4-19-02	846	4-19-02
GR-3.4	4-18-03	CB-4.2	7-19-02			MT-96.25	4-20-01	848	2-8-02
GR-4.2	10-17-03					MT-97.11	4-19-02	864	7-11-00
GR-5.I	4-18-03	WH-1.2	7-19-02			MT-99.20N	1-30-95	871	7-19-02 ⁻
GR-5.2	4-18-03					MT-101.20	10-18-02	908	4-18-03
		DM-I.I	7-18-03			MT-101.60	10-18-02	954	9-9-97
DS-1-92	7-18-03	DM-1.4	7-19-02			MT-101.70	10-18-02	SPECIAL	PROVISIONS
PCB-91	7-19-02	DM-4.3	7-19-02			MT-105.10	10-18-02	WATERWA	AY PERMIT
		DM-4.4	7-19-02			MT-105.11	10-18-02	NWP #3	11-03-03

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		PART A -	SR 18				
	DESIGN D	<u>ESIGNATION</u>	(ENGLISH	<u> UNITS)</u>			
S.L.M.	0.00-2.27	2.27-2.69	<u> 2.69-2.98</u>	<u>2.98-7.45</u>	7.45-7.78	<u>7.78-8.05</u>	8.05-9.10
CURRENT ADT (2004)	5930	5930	7380	7380	7380	11160	11160
DESIGN YEAR ADT (2016)	6880	6880	9060	9060	9060	13480	13480
DESIGN HOURLY VOLUME (2016)	688	688	906	906	906	1213	1213
DIRECTIONAL DISTRIBUTION	55%	55%	55%	55%	55%	55%	55%
TRUCKS (24 HOUR B&C)	22%	22%	18%	18%	18%	19%	19%
DESIGN SPEED	55 MPH	35 MPH	35 MPH	55 MPH	35 MPH	35 MPH	55 MPH
LEGAL SPEED	55 MPH	35 MPH	35 MPH	55 MPH	35 MPH	35 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICAT	TION:						
RURAL PRINCIPAL ARTER	RIAL (SLM (0.00-8.95)					
URBAN PRINCIPAL ARTEI	RIAL (SLM	8.95-9.10)					
NHS PROJECT	YES	YES	YES	YES	YES	YES	YES
ı	DESIGN TO	MEET NORMA	L DESIGN (CRITERIA			

		PART B -	SR 94		
L	DESIGN DE	SIGNATION	V (ENGLIS	<u>H UNITS)</u>	
S.L.M.	<u>5.53-5.83</u>	<u>5.83-7.70</u>	7.70-8.30	8.30-9.12	9.12-11.01
CURRENT ADT (2004)	6760	6760	6760	6760	6760
DESIGN YEAR ADT (2016)	8170	8170	8170	8170	8170
DESIGN HOURLY VOLUME (2016)	817	817	817	817	817
DIRECTIONAL DISTRIBUTION	60%	60%	60%	60%	60%
TRUCKS (24 HOUR B&C)	6%	6%	6%	6%	6%
DESIGN SPEED	35 MPH	55 MPH	50 MPH	35 MPH	.55 MPH
LEGAL SPEED	35 MPH		50 MPH	35 MPH	.55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	ON:				
URBAN MINOR ARTERIAL	(SLM 5.53-	5.80)			
RURAL MAJOR COLLECTOR	(SLM 5.80-	<i>15.61)</i>			
NHS PROJECT	NO	NO	NO	NO	NO



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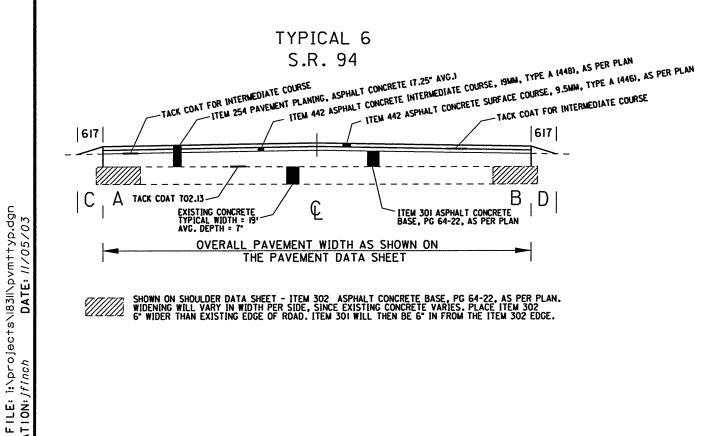
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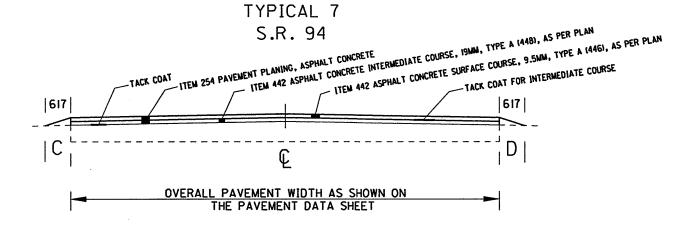
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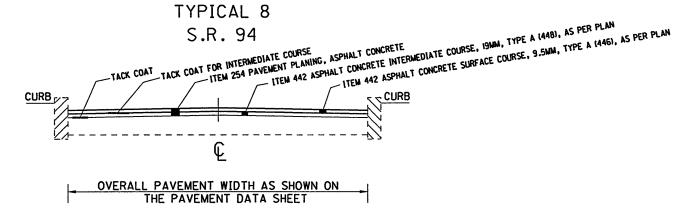
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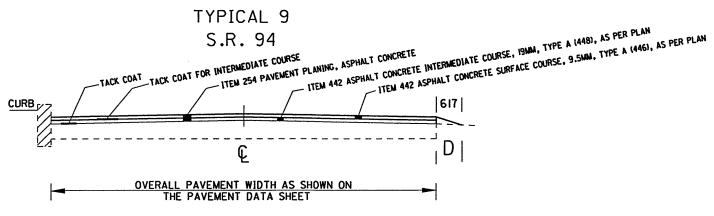
TYPICAL 5 ENT PLANING, ASPHALT CONCRETE (7.25° AVG.)

TEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE & (446), AS PER PLAN FOR INTERNEUTATE COURSE
-ITEM 254 PAVENENT PLANING, ASPHALT CONCRETE (7.25° AVG.) TACK COAT FOR INTERMEDIATE COURSE CURB F CURB В A TACK COAT 702.13-EXISTING CONCRETE TYPICAL WIDTH = 19 AVG. DEPTH = 7° OVERALL PAVEMENT WIDTH AS SHOWN ON THE PAVEMENT DATA SHEET









PAVEMENT PLANING TO BE THE SAME THICKNESS AS THE PROPOSED INTERMEDIATE AND SURFACE COURSES, EXCEPT IN THE FULL DEPTH ASPHALT REPLACEMENT AREA'S.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

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ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

PROGRESSION OF WORK!

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

PAVEMENT CONTROL:

AN AUTOMATIC SCREED CONTROL, HAVING A 20 FT. MINIMUM SKI-ARM, SHALL BE USED FOR PLACING THE INTERMEDIATE COURSE AND SURFACE COURSE ON EXISTING PAVEMENT WIDTHS OF 20 FT.

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.

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC.
THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE
WEDGE, OF SUFFICIENT LENGTH, AS DIRECTED IN THE PLANS OR BY THE ENGINEER.

CONSTRUCTION "BUMP" (OW-62) AND "ADVISORY SPEED" (OW-143) 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.

INTERSECTIONS AND DRIVES:

RURAL-INTERSECTIONS SHALL BE PAVED TO THE END OF THE RADII OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE

URBAN-INTERSECTIONS SHALL BE PAVED TO THE BACK OF CROSSWALKS OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE **WATER POCKETS)**

EXISTING PAVED DRIVES SHALL BE PAVED SO AS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE HIGHWAY AND THE DRIVE, (DISTANCE FROM EDGE OF ROADWAY MAY VARY - AT EACH DRIVE) AS DIRECTED BY THE ENGINEER.

EXISTING AGGREGATE DRIVES SHALL BE PAVED WITH AN APRON THE WIDTH OF THE 617 BERM OR 2.0 FT. MINIMUM. THE SLOPE OF THIS APRON SHALL BE THE SAME AS THE ADJACENT PAVEMENT SLOPE OR AS DIRECTED BY THE ENGINEER. ITEM 617 AGGREGATE SHALL BE PLACED ADJACENT TO THIS APRON TO PROVIDE A SMOOTH TRANSITION FROM THE APRON TO THE EXISTING DRIVE, (WIDTH OF THIS 617 APPLICATION MAY VARY.) AS DIRECTED BY THE ENGINEER. AN ADDITIONAL QUANTITY HAS BEEN ESTIMATED TO COMPLETE THIS WORK AND IS SHOWN ON THE "SHOULDER DATA" SHEET.

ANY HAZARD OR UNSAFE CONDITION RESULTING FROM THE ABOVE WORK MUST BE CORRECTED IMMEDIATELY, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS REMINDED OF SECTIONS 104.04, 107.07 & 614.02 (a): PUBLIC CONVENIENCE AND SAFETY.

UTILITIES

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL DAMAGE INFLICTED ON UTILITIES IN THE EXECUTION OF THIS CONTRACT.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS. THE OHIO DEPARTMENT OF TRANSPORTATION DOES NOT GUARANTEE THE COMPLETENESS OF THIS LIST.

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.

TELEPHONE:

VERIZON. 6223 NORWALK RD. MEDINA, OHIO 44256 (330) 723-9580

MCI TELECOMUNICATIONS 2270 LAKESIDE BLVD. RICHARDSON, TEXAS 75082 (972) 656-1759

AT&T c/o P.E.A. of OHIO 5980-I WILCOX PLACE DUBLIN, OHIO 43016 (614) 760-8320

WILTEL COMMUNICATIONS ONE TECHNOLOGY CENTER TULSA, OK 74103 1-866-945-8351

GAS:

COLUMBIA GAS OF OHIO INC. 7080 FRY RD. MIDDLEBURG HEIGHTS, OHIO 44130 (440) 891-2428

COLUMBIA GAS TRANSMISSION CORP. 589 N. STATE. RD. MEDINA. OHIO 44256 (330) 723-4900

DOMINION EAST OHIO 1000 WEST WILBETH RD. AKRON, OHIO 44314 (330) 798-7104

GATHERCO 5772 DRESSLER RD. NORTH CANTON, OHIO 44720 (330) 498-9553

TEN CENTER - 26TH FLOOR IBOI MARKET ST. PHILADELPHIA, PA 19103-1699 (610) 670-3261

ELECTRIC:

OHIO EDISON CO. 6326 LAKE AVE. ELYRIA, OHIO 44035 (440) 326-3231

LORAIN-MEDINA RURAL ELECTRIC P.O. BOX 158 RD WELLINGTON, OHIO 44090 1-800-222-5673

WATER:

CITY OF WADSWORTH 120 MAPLE ST. WADSWORTH, OHIO 44889 (330) 334-1581

MEDINA COUNTY SANITARY ENG. 791 WEST SMITH RD. MEDINA, OHIO 44256 (330) 723-9575

MEDINA COUNTY ENGINEEER 791 WEST SMITH RD. MEDINA, OHIO 44256 (330) 723-3641

RURAL LORAIN CO. WATER 42401 SR 303, BOX 567 LAGRANGE, OHIO 44050 (440) 355-6060

UTILITIES - CONT.

CABLE:

ADELPHIA CABLE 8385 BAVARIA RD. MACEDONIA, OHIO 44056 (330) 963-3620 X-101

ARMSTRONG UTILITIES 1141 W. LAFAYETTE RD. MEDINA, OHIO 44256 (330) 722-3141

TIME-WARNER CABLE 1575 LEXINGTON AVE. MANSFIELD, OHIO 44901 (419) 756-6091 X-5109

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

SECTIONS 105.06 AND 107.17 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

WORK LIWITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CON-STRUCTION 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.

CLEARING AND GRUBBING

WITHIN THE LIMITS OF THIS PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201 - CLEARING

MONUMENT ASSEMBLY

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NUMBER III/IIB IN THE R/W PLANS.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ITEM IS TO BE USED FOR DUST CONTROL PURPOSES BY CHANGE ORDER:

ITEM 616 WATER

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES:

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT, IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE FXISTING FIFVATIONS. IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603

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TREE REMOVAL RESTRICTIONS

THIS PROJECT IS WITHIN THE KNOWN SUMMER BREEDING
RANGE OF THE FEDERAL ENDANGERED INDIANA BROWN BAT
AND MAY IMPACT THAT SPECIES HABITAT. THE SUMMER
ROOSTING AND BROOD REARING HABITAT OF THIS SPECIES IS
IN LIVING OR STANDING DEAD TREES OR SNAGS WITH
EXFOLIATING, PEELING, OR LOOSE BARK, SPLIT TRUNKS
AND/OR BRANCHES, OR CAVITIES. ANY UNAVOIDABLE CUTTING
OF SUCH TREES SHALL BE PERFORMED ONLY BEFORE APRIL
15 OR AFTER SEPTEMBER 15 WHEN THIS SPECIES WOULD NOT
BF USING SUCH HABITAT. BE USING SUCH HABITAT.

PROFILE AND ALIGNMENT

THE PROPOSED PAVENENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT, EXCEPT ON SR 83.

PLACEMENT OF ASPHALT CONCRETE

CON ALL OF SR 18 & 83, AND ON THE "PLANE AND PAVE"

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

BRIDGE LOCATION MARKER SIGN

THE BRIDGE LOCATION MARKER SIGN INDICATES THE COUNTY, THE ROUTE, AND THE STRAIGHT LINE MILEAGE OF THE STRUCTURE. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE LOCATION MARKER SIGNS AND REERECT THE SIGNS IN KIND. IF THERE ARE ANY QUESTIONS ON THE LOCATION, PLEASE CONTACT THE DISTRICT BRIDGE ENGINEER.

ALL COSTS, INCLUDING THE SIGN REMOVAL, SIGN REERECTION, POST REMOVAL, AND POST INSTALLATION SHALL BE INCLUDED IN THE FOLLOWING PAY ITEMS:

ITEM 630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION 3 EACH

ITEM 630 GROUND MOUNTED SUPPORT, NO. 2. 22.5 FT.

COORDINATION OF WORK BETWEEN CONTRACTORS:

THE CONTRACTOR IS ADVISED OF THE PRESENCE OF POSSIBLY THREE (3) OTHER CONSTRUCTION CONTRACTS WITHIN OR IN THE VICINITY OF THE WORK LIMITS_ OF THIS PROJECT AND 105.08 COOPERATION BETWEEN CONTRACTORS IS REQUIRED. PROJECTS THAT MAY BE UNDER CONSTRUCTION AT THE SAME TIME ARE:

MED-18-16.03 PID 4082 (WIDENING SR 94 FOR TURN LANES, TRAFFIC IS MAINTAINED), AND MED-94-7.49 PID 16589 (RAILROAD BRIDGE REPLACEMENT, TRAFFIC IS DETOURED).

THERE ALSO WILL BE A PROJECT USING SR 94 AS A DETOUR ROUTE -- MED-57-9.90 PID 19892 (SAFETY PROJECT). THE PORTION OF SR 94 FROM SR 162 AND TO THE SOUTH WILL BE USED FOR THIS DETOUR.

ITEM SPECIAL - PARKING BLOCK REMOVED

THIS ITEM SHALL CONSIST OF THE REMOVAL OF THE EXISTING CONCRETE PARKING BLOCKS AND PINS. THE BLOCKS AND PINS SHALL BE DISPOSED OF AS PER

ITEM 202 - REMOVAL MISC.: MAILBOX SUPPORT

THIS ITEM SHALL CONSIST OF THE REMOVAL OF THE EXISTING BRICK MAILBOX SUPPORT AT SLM 1.00± LT. ON SR 18 PART A. THE BRICK SHALL BE DISPOSED OF AS PER CMS 202. PAYMENT SHALL INCLUDE ALL LABOR AND REMOVAL OF MATERIALS TO COMPLETE THE ITEM. NEW MAILBOX SUPPORT SHALL BE PUT UP THE SAME DAY. PAYMENT WILL BE AT UNIT BID PRICE OF I EACH, ITEM 202 - REMOVAL MISC: MAILBOX SUPPORT

TEM SPECIAL - REINFORCEMENT MESH FOR RANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS

THIS WORK CONSISTS OF PLACEMENT OF A SELF ADHESIVE GLASS FIBER MESH OVER JOINTS AND CRACKS DESIGNATED IN THE PLAN AND/OR BY THE ENGINEER PRIOR TO PLACEMENT OF THE SURFACE COURSE OF ASPHALT

FURNISH GLASGRID KNITTED GLASS FIBER STRAND MESH MEETING THE FOLLOWING PROPERTIES:

PROPERTIES GLASGRID NO. 0230

3 FT. MATERIAL WIDTH

20% M/N MATERIAL - SELF ADHESIVE FIBERGLASS DRY PICKUP STRAND COATED WITH ELASTROMERIC POLYMER PER ASTM 4963

TENSILE STRENGTH PER G.R.I.

GG 1-87 1120 LBS/IN WIDTH LENGTH 560 LBS/IN

ELONGATION AT BREAK (MIN) < 5%

MELTING POINT (MIN) > 425° F ASTM D276

MASS/UNIT AREA (MIN) 16 0Z/SQ. YD. ASTM D5261-92

GRID PATTERN 0.5 IN x 0.5 IN

BEFORE INSTALLATION, SUBMIT A LETTER TO THE PROJECT WITH A STATEMENT CERTIFYING MATERIAL RECEIVED MEETS THE ABOVE PROPERTIES. SUBMIT TO THE PROJECT ACTUAL DATED (SALES FLYER DATA NOT ACCEPTABLE) TEST DATA WITH THE CERTIFICATION LETTER.

PERFORM ALL REQUIRED REPAIRS PRIOR TO PLACING MESH.

PLACE MESH IN AREAS DESIGNATED IN THE PLAN AND/OR BY THE ENGINEER. WHEN THE MESH IS TO BE APPLIED ON AN INTERMEDIATE COURSE, MARK THE CRACK LOCATIONS AS DESIGNATED IN THE PLAN OR BY THE ENGINEER.

ENSURE ALL AREAS WHERE MESH IS TO BE PLACED ARE FREE OF ALL DIRT AND OTHER LOOSE MATERIALS BY SWEEPING OR OTHER APPROVED METHOD. PLACE THE MESH ON A PAVEMENT SURFACE THAT IS BETWEEN 40°F AND 140°F. ALLOW FOR THE TACK COAT TO CURE BEFORE PLACING MESH

PLACE MESH UNDER TENSION TO PREVENT RIPPLING.
REMOVE RIPPLES BY PULLING, OR IF NECESSARY (IN CURVES
FOR EX.) BY CUTTING AND FLATTENING THE MESH. OVERLAP
TRANSVERSE JOINTS OF THE MESH 3 TO 6 INCHES.
OVERLAP LONGITUDINAL JOINTS OF THE MESH BY I INCH
MINIMUM. ROLL THE MESH SURFACE 2 PASSES WITH A
RUBBER COATED DRUM ROLLER, RUBBER TIRED ROLLER OR
OTHER METHOD ACCEPTABLE TO THE MANUFACTURE. CLEAN
RUBBER TIRE ROLLER IF BUILD UP ON THE RUBBER
SURFACE INTERFERES WITH MESH PLACEMENT. DO NOT USE A STEEL DRUM ROLLER.

PLACED MESH WILL HANDLE SPEED CONTROLLED EMERGENCY OR CONSTRUCTION TRAFFIC BUT DAMAGED SECTIONS MUST BE REMOVED AND/OR REPAIRED. COVER MESH WITH ASPHALT CONCRETE THE SAME DAY UNLESS WEATHER BECOMES

THE DEPARTMENT WILL MEASURE MESH PLACEMENT BY THE SO YD OF JOINT OR CRACK COVERED. USE THE 3' WIDE MESH ON THIS PROJECT.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES, COMPLETED IN PLACE, AT THE CONTRACT PRICES, AS DESCRIBED ABOVE.

ITEM 253. PAVEMENT REPAIR

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING. THE REPAIR AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND CUT OR SAWED TO A NEAT LINE. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE THE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT (ESTIMATED DEPTH MAY VARY FROM 2" to 12"). THE MATERIALS SO REMOVED SHALL BE FROM 2" to 12"). THE MATERIALS SO REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 203.05.

REPLACEMENT MATERIAL SHALL BE ITEM 301 OR ITEM 448, TYPE 2 MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. THE REPAIR AREAS SHALL BE PAINTED WITH BITUMINOUS MATERIAL (SIDES AND BOTTOM) AT AN APPLICATION RATE OF 0.25 GAL/SQ YDS. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER. MAXIMUM LIFT THICKNESS SHALL BE 3*.

THE QUANTITY FOR PART B ON SR 94 SHALL INCLUDE REPLACING ANY INSUFFICIENT PAVEMENT/CONCRETE UNDER THE FINAL PLANING OPERATION AS DETERMINED BY THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CU YD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253, PAVEMENT REPAIR.

400 CY - PART A 500 CY - PART B

ITEM 254. PAVEMENT PLANING. ASPHALT CONCRETE (ON SR 18 AND SR 94)

THIS ITEM OF WORK SHALL BE COMPLETED AT THE LOCATIONS SHOWN IN THE PLANS AND IN AREAS DESIGNATED BY THE ENGINEER. PLANING IS TO BE PERFORMED AS DIRECTED. REMOVAL OF EXISTING PAVEMENT SURFACE MAY BE REQUIRED TO ELIMINATE ADVERSE SURFACE DISTORTION, WHICH IN THE JUDGEMENT OF THE ENGINEER, CANNOT BE SATISFACTORILY CORRECTED IN THE PAVING COURSES.

THESE AREAS MAY VARY IN DEPTH, AS DIRECTED BY THE ENGINEER. THESE AREAS MAY INCLUDE MATERIAL DISPLACED BY RUTTING OR SHOVING, ASPHALT SURFACE PATCHES, CONCRETE PATCHES, TRANSVERSE BUMPS, JOINTS AT STRUCTURES, ADJOINING PAVEMENTS, RAILROADS, ETC.

AN AUTOMATIC MILLING HEAD PROFILE CONTROL HAVING A MINIMUM 30 FOOT SKI-ARM SHALL BE USED DURING PLANING OPERATION.

(ON SR IB ONLY)

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 TWENTY-ONE (2!) CALENDAR DAYS. THE 2! CALENDAR DAYS SHALL BE CONSIDERED AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 2! DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER 108.07. PLANED AREAS WHICH CREATE A LONGITUDINAL JOINT BETWEEN TRAVELED LANES SHALL BE COMPLETED IN SUCH A MANNER SO AS TO REMOVE THE JOINT BEFORE THE END OF EACH DAY'S WORK. BEFORE THIS JOINT IS EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL ERECT OW-171 SIGNS (UNEVEN PAVEMENT). THESE SIGNS SHALL REMAIN ONLY WHEN THE CONDITION EXISTS. THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH

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 THE CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL 254.05. PATCHING DEPTH IS 0 TO 2 IN.

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RPM GENERAL NOTES

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Materials Supplied by The Department

ALL MATERIALS ARE TO BE CONTRACTOR FURNISHED, EXCEPT THAT THE DEPARTMENT SHALL SUPPLY RPM MATERIALS IN THE QUANTITIES SHOWN HEREIN TO THE CONTRACTOR. PAY ITEMS FOR THE DEPARTMENT SUPPLIED MATERIALS SHALL BE INDICATED AS "INSTALLATION ONLY"

AT THE PRE-CONSTRUCTION CONFERENCE AN AUTHORIZATION FOR PICK UP FORM WILL BE FURNISHED BY THE DISTRICT CONSTRUCTION ADMINISTRATOR AND THE CONTRACTOR WILL BE INFORMED OF THE LOCATION OF THE DEPARTMENT SUPPLIED MATERIALS TO BE PICKED UP.
FOR SOME PROJECTS HAVING QUANTITIES OF LESS THAN 20 RPMS, THE CONTRACTOR MAY PICK UP RPM MATERIALS AT THE DISTRICT OFFICES. QUANTITIES OVER 20 RPMS WILL BE PICKED UP AT THE RECYCLER'S WAREHOUSE OR AS ARRANGED WITH THE DISTRICT. THE CONTRACTOR SHALL PICK UP DEPARTMENT SUPPLIED RPM MATERIALS AT THE SPECIFIED LOCATION(S) FOR TRANSPORT TO THE WORK SITE OR TO THE CONTRACTOR'S STORAGE FACILITY. THE RECYCLED RAISED PAVEMENT MARKER (RPM) AUTHORIZATION FORM IS TO BE SIGNED BY THE DISTRICT CONSTRUCTION ENGINEER PRIOR TO PICK UP OF THE RPMS. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND / OR THE PARTIES LISTED ON THE AUTHORIZATION FORM IN WRITING AT LEAST FIVE (5) CALENDAR DAYS PRIOR TO PICK UP OF THE DEPARTMENT SUPPLIED MATERIALS. THE CONTRACTOR SHALL STORE THE RPMS WITHOUT DAMAGE OR CONTAMINATION WITH FOREIGN MATTER. A DEDUCTION IN THE AMOUNT OF THE ACTUAL COST TO THE DEPARTMENT SHALL BE MADE FOR MATERIALS DAMAGED BY THE CONTRACTOR OR FOR CASTINGS RECEIVED BY THE CONTRACTOR OR FOR CASTINGS RECEIVED BY THE CONTRACTOR WHICH WERE NOT INSTALLED AND WERE NOT RETURNED TO THE DEPARTMENT.

Return of Non-performed Raised Pavement Marker Materials Supplied by the Department

RAISED PAVEMENT MARKER MATERIALS SUPPLIED
BY THE DEPARTMENT, THAT ARE NON-PERFORMED SHALL
BE CAREFULLY REPACKED OR PACKED IN THE BOXES IN
THE SAME STYLE AND QUANTITY AS ORIGINALLY
RECEIVED FROM THE DEPARTMENT. CASTING STYLES
SHALL NOT BE MIXED WITHIN ANY ONE CONTAINER.
THE CONTRACTOR SHALL CLEARLY MARK ON THE OUTSIDE
OF EACH CONTAINER, THE COLOR OF THE PRISMATIC
RETRO-REFLECTOR, AND THE STYLE OF CASTING. BOXES
SHALL BE PLACED ON SKIDS OR PALLETS IN THE SAME
STYLE (LOW PROFILE OR CONVENTIONAL, REFLECTORISED
OR NON REFLECTORISED) AND NO MORE THAN 420 RPMS
(OR 21 BOXES) ON ONE SKID.

ONLY USE THE BOXES SUPPLIED BY THE RAISED PAVEMENT MARKER RECYCLER. BOXES MUST BE MARKED WITH THE RECYCLER'S PART OR CATALOG NUMBER AND THE PROJECT NUMBER. THE RECYCLER'S CATALOG OR PART NUMBERS MAY BE OBTAINED FROM THE OFFICE OF TRAFFIC ENGINEERING IN COLUMBUS, OHIO OR FROM THE RECYCLER. BOXES NOT MARKED WITH THE PROPER RECYCLER'S CATALOG OR PART NUMBERS, AND THE DEPARTMENT'S PROJECT NUMBER WILL NOT BE ACCEPTED AT THE RECYCLER'S WAREHOUSE.

NON PERFORMED MATERIALS WILL BE RETURNED TO THE LOCATION AS SPECIFIED BY THE DISTRICT CONSTRUCTION ENGINEER WITHIN 30 DAYS OF THE COMPLETION OF THE PROJECT.

THE ABOVE WORK INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL NEEDED TO PERFORM THE WORK, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE PAY ITEM.

IF THE DEPARTMENT HAS TO REPACKAGE THE RPMS CORRECTLY, THE CONTRACTOR WILL BE ASSESSED THE ACTUAL COST FOR REPACKAGING THE MATERIALS BY THE DEPARTMENT'S FORCES.

Loading of Materials Supplied by the Department at the Recycler's Warehouse

TRUCKS SHALL HAVE A LOADING HEIGHT OF 48 INCHES AND BE ABLE TO BACK UP FLUSH TO THE LOADING DOCK.

TRUCKS SHALL NOT HAVE ANY OBSTRUCTIONS OR PROTRUSIONS THAT PREVENT THE LOADING BY A STANDARD FORKLIFT OR LIFT TRUCK. SEMI TRUCKS OR 20 FOOT COMMERCIAL TRUCKS ARE THE MOST APPROPRIATE TRUCKS FOR LOADS IN EXCESS OF 4 PALLETS (ONE PALLET - 21 BOXES - 2100 LBS).

STAKE BODY TRUCKS ARE APPROPRIATE TO LOAD LESS LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT BY CHAINING OR STRAPPING DOWN AS NEEDED.

PICKUP TRUCKS ARE APPROPRIATE FOR LOADS OF APPROXIMATELY ONE PALLET, PROVIDED THE PICKUP TRUCK IS RATED FOR THE LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT.

DUMP TRUCKS, TILT BED TRUCKS, AND NON COMMERCIAL MOVING VANS WILL NOT BE LOADED.

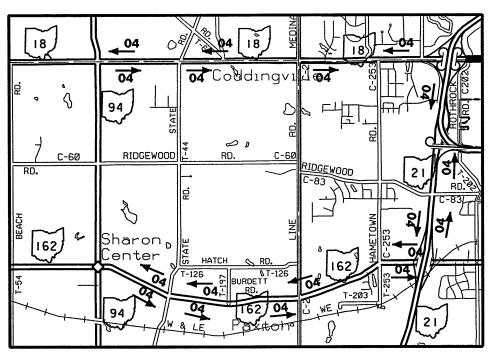
THE WAREHOUSE SUPERVISOR WILL REFUSE TO LOAD ANY TRUCK THAT IS UNSAFE TO LOAD OR UNSUITABLE FOR THE LOAD BEING PLACED ON THE TRUCK.

ITEM 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE

ALL RAISED PAVEMENT MARKERS REMOVED BY THE CONTRACTOR SHALL BE DELIVERED TO THE NEAREST ODOT COUNTY GARAGE.

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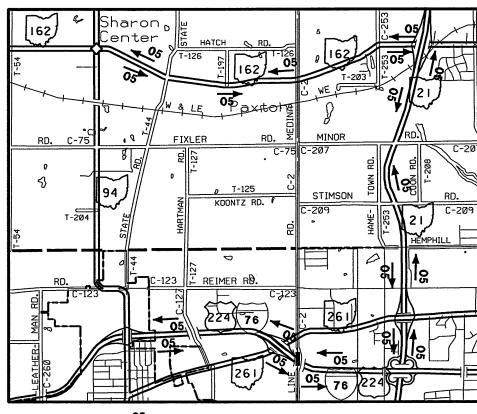
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FILE:

S.R. 94 DETOUR 2004 - PART 04

DETOUR - 28 DAYS



 $\frac{05}{05}$ S.R. 94 DETOUR 2005 - PART 05

DETOUR - 28 DAYS

WORKSITE TRAFFIC SUPERVISOR

THE CONTRACTOR SHALL EMPLOY (OTHER THAN THE SUPERINTENDENT) AND SUBJECT TO THE APPROVAL OF THE ENGINEER, A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS). THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

- I). AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION
 A.T.S.S.A., PHONE NUMBER I-800-272-8772, CERTIFIED
 WORKSITE TRAFFIC SUPERVISOR (WTS)
- 2). THE NATIONAL SAFETY COUNCIL, TRAFFIC CONTROL ZONES SUPERVISORS COURSE, PHONE NUMBER 1-800-441-5103
- 3). NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528

A CERTIFIED WTS SHALL BE PRESENT WHEN THE CONTRACTOR OR SUBCONTRACTOR INSTALLS A TRAFFIC RESTRICTION, LANE CLOSURE, ETC. THE CONTRACTOR OR SUBCONTRACTOR MUST PRESENT A COPY OF CERTIFICATES FOR ALL WTS TO THE ENGINEER. A WTS MUST BE PRESENT WHEN THE WORK ZONE IS BEING SET UP OR REMOVED.

THE WTS POSITION IS ESTABLISHED FOR THE PURPOSE OF MONITORING THE TRAFFIC CONTROL PLAN (TCP) AND CORRECTING ANY TRAFFIC CONTROL DEFICIENCIES IN THE WORK ZONE. THE WTS MUST ALSO COORDINATE WITH ALL LAW ENFORCING AGENCIES RESPONSIBLE FOR THE ROADWAY UNDER CONSTRUCTION AND RETRIEVE ALL CRASH REPORTS (OH-I) THAT OCCUR WHEN TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE. THE WTS SHALL OVERSEE ALL OPERATIONS THAT AFFECT THE MOVEMENT OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE. TRAFFIC CONTROL AND CRASH DATA EVALUATION WILL BE THE WTS MAIN RESPONSIBILITY WHEN A WORK ZONE IS IN PLACE

DAILY, INCLUDING WEEKENDS AND HOLIDAYS, THE WTS SHALL SPEND A MINIMUM OF ONE HOUR REVIEWING THE WORK ZONE AND/OR CRASH DATA FOR DEFICIENCIES AND MAINTAINING THE WORK ZONE.

WEEKLY, THE WTS MUST RETRIEVE/COLLECT ALL CRASH REPORTS (OH-I) FROM ALL LAW ENFORCING AGENCIES, EVALUATE THE CRASHES, AND RECOMMEND SOLUTIONS TO ADDRESS ANY ISSUES WITH THE TCP THAT ARE POTENTIALLY CREATING CRASHES WITHIN THE WORK ZONE. THE WTS MUST PRESENT THESE SOLUTIONS TO THE ENGINEER FOR APPROVAL WEEKLY. UPON APPROVAL BY THE ENGINEER AND THE DISTRICT WORK ZONE TRAFFIC MANAGER (OWZTM), THE CONTRACTOR MUST IMPLEMENT THE RECOMMENDED SOLUTIONS TO THE WORK ZONE WITHIN ONE WEEK - ADDITIONAL COST TO BE PAID UNDER CONSTRUCTION AND MATERIALS SPECIFICATIONS - 109. THE WTS MUST INSPECT THE WORK ZONE AT THE BEGINNING AND THE END OF EACH WORK DAY AND ONE TIME PER WEEK DURING THE HOURS OF DARKNESS. THE FOLLOWING ITEMS SHALL BE INCLUDED, BUT NOT RESTRICTED TO, IN EACH REVIEW: TRAFFIC CONTROL DEVICE CONDITION; PLACEMENT; VISIBILITY; TRAFFIC FLOW CONDITIONS; INCIDENTS; CONGESTION POINTS; DELAYS; ADEQUACY OF ADVANCED INFORMATIONAL SIGNS BEYOND PROJECT LIMITS; INTERACTION OF WORK VEHICLES AND TRAFFIC; ACCIDENTS; PROPER STORAGE OF MATERIALS AND EQUIPMENT; CONFORMANCE WITH TCP; ADEQUACY OF TCP; CONFORMANCE WITH TCP; ADEQUACY OF TCP; CONFLICTING OR NON-CONFORMING PAVEMENT MARKINGS. THE WTS SHALL HAVE THE NECESSARY AUTHORITY TO IMMEDIATELY PERFORM ANY CORRECTIVE WORK. A RECORD OF EACH DAYS REVIEW SHALL BE GIVEN TO THE ENGINEER THE FOLLOWING WORKDAY IN WRITING AND SHALL INCLUDE ALL DEFICIENCIES AND RESOLUTIONS TO THE DEFICIENCIES. THE INSPECTION WILL BE DOCUMENTED ON THE LONG/SHORT TERM WORK ZONE REVIEW FORM PROVIDED BY ODOT. WEEKLY, THE INSPECTION FORM MUST BE ACCOMPANIED BY ALL OF THE OH-I CRASH REPORTS AND THE PROPOSED SOLUTIONS TO ANY IDENTIFIED CRASH PROBLEMS.

WORKSITE TRAFFIC SUPERVISOR - CONT.

IF THE RESTRICTIONS ARE SHORT TERM, THE WTS SHALL MONITOR THE ZONE FOR COMPLIANCE, DURING LANE CLOSURES; HE SHALL MAKE SURE ALL TRAFFIC CONTROL ITEMS ARE FUNCTIONING PROPERLY. TRAFFIC CONTROL AND CRASH DATA EVALUATION WILL BE THE WTS MAIN RESPONSIBILITY DURING IMPLEMENTATION OF ZONES OR SHORT TERM ZONES. THE WTS SHALL PROVIDE THE DWZTM A SKETCH OF THE TRAFFIC CONTROL PLAN (TCP) EVERYDAY THERE IS TO BE A SHORT TERM TRAFFIC RESTRICTION, LANE CLOSURE, ETC. THIS TCP SHALL SHOW HOW THE WORK ZONES ARE TO BE IMPLEMENTED.

THE WTS SHALL BE ON STANDBY 24-HOUR BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. A 24-HOUR CONTACT NUMBER(S) SHALL BE MADE AVAILABLE TO THE ENGINEER TO CONTACT THE WTS.

FAILURE OF THE CONTRACTOR TO COMPLY WITH ANY OF THE ABOVE, SHALL CONSTITUTE CAUSE FOR THE PROJECT ENGINEER TO DEDUCT \$500.00 PER DAY FROM MONEY DUE TO THE CONTRACTOR NOT AS A PENALTY, BUT AS A LIQUIDATION DAMAGE.

PAYMENT FOR THE WTS SHALL BE INCLUDED UNDER THE ITEM 614 - "WORKSITE TRAFFIC SUPERVISOR" BY MONTH.

<u>ITEM 614, MAINTAINING TRAFFIC</u>

TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT ON SR 94 AS SPECIFIED IN THE MOT NOTES ON SHEETS 12-13.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 WORKZONE TRAFFIC MANAGER, LARRY STORMER, 419-207-7092, IN WRITING A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE DATE EACH DETOUR IS NEEDED. THE STATE OF OHIO WILL INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AND ADVANCED WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS AND AS SPECIFIED IN THE PLANS.

NOTICE OF CLOSURE

THE CONTRACTOR SHALL NOTIFY IN WRITING, SEVEN (7) DAYS PRIOR TO EACH PHASE OF CONSTRUCTION, TO THE FOLLOWING AGENCIES:

SHARON TOWNSHIP TRUSTEES
ODOT PUBLIC INFORMATION OFFICER
SHARON POLICE
OHIO STATE HIGHWAY PATROL
SHARON FIRE DEPARTMENT
WADSWORTH FIRE DEPARTMENT
MEDINA COUNTY SHERIFF
MEDINA COUNTY ENGINEER
ALL AFFECTED SCHOOLS AND SCHOOL DISTRICTS
MEDINA COUNTY MANAGER

(IO) (18)

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DESIGNATED LOCAL MAINTENANCE ROUTE

A LOCAL MAINTENANCE ROUTE, OTHER THAN THE OFFICIAL SIGNED ODOT DETOUR ROUTE, WILL BE DESIGNATED BY AGREEMENT BETWEEN ODOT AND LOCAL GOVERNMENTAL AGENCIES PRIOR TO THE HIGHWAY CLOSURE.

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN. THE DESIGNATED LOCAL MAINTENANCE ROUTE SHALL BE RESTORED TO A CONDITION THAT IS FOULVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ITEMS ARE TO BE USED AS DIRECTED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL MAINTENANCE ROUTE BY CHANGE

ITEM 253 PAVEMENT REPAIR

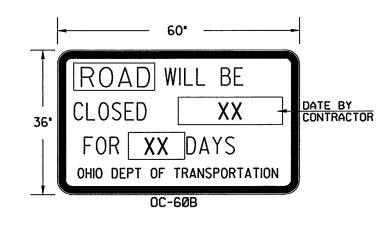
ITEM 407 TACK COAT

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

ITEM 617 COMPACTED AGGREGATE, TYPE A

NOTICE OF CLOSURE SIGNS (SR 94)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF EACH SCHEDULED ROAD CLOSURE SECTION. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.



XX - TO BE FILLED AND DETERMINED BY THE CONTRACTOR

ITEM 614 - MAINTAINING TRAFFIC

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

MAINTAINING TRAFFIC

ALL DRIVEWAY ACCESSES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ALL COSTS INVOLVED IN MAINTAINING DRIVEWAY ACCESS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED IN

CULVERT LIMITATIONS

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR REMOVAL OR MODIFICATION OF THE EXISTING CONDUITS UNTIL ALL NEW CONDUITS NECESSARY TO PLACE THE ROADWAY BACK INTO SERVICE HAVE BEEN TESTED, APPROVED AND ARE DELIVERED TO THE PROJECT SITE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 OF

ITEM 614, WORK ZONE MARKING SIGN

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04, AND THE APPROPRIATE PROPOSAL

WORK ZONE MARKING SIGN: (OW-167-36) NO EDGE LINE 25 EACH

WORK ZONE MARKING SIGN: (R-33-24) DO NOT PASS 21 EACH WORK ZONE MARKING SIGN: PASS WITH CARE

= 14 EACH TOTAL = 60 EACH

PART B - SR 94 (PLANE AND PAVE SECTION ONLY) WORK ZONE MARKING SIGN: (OW-167-36) NO EDGE LINE

9 EACH WORK ZONE MARKING SIGN: (R-33-24) DO NOT PASS

WORK ZONE MARKING SIGN: PASS WITH CARE

2 EACH

7 EACH

TOTAL = 18 EACH

ITEM SPECIAL. 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.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY. 25 EACH

ITEM 614. ASPHALT CONCRETE FOR MAINTAINING

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 BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF IN EXCESS OF IZIN, AS DIRECTED BY THE ENGINEER. THIS QUANTITY SHALL ALSO BE USED AT PLANED SURFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS, AS DIRECTED BY THE ENGINEER.

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 100 CU YD

ITEM 614, REPLACEMENT 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 USED BUT IN GOOD CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE 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,

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY. 20 EACH

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THE CONTRACTOR SHALL HAVE MAXIMUM WORK ZONES AS SPECIFIED BELOW:

THIS PROJECT SHALL BE DIVIDED UP INTO THE FOLLOWING SECTIONS OF WORK FOR CONSTRUCTION PHASING PURPOSES.

WORK THAT SHALL BE STARTED AND COMPLETED IN CONSTRUCTION YEAR 2004:

SECTION I - ALL OF SR 18 AND SR 83

SECTION 2 - SR 94 FROM SLM 9.90 TO SLM II.OI (NORTH PROJECT LIMIT).

SECTION 3 - SR 94 FROM SLM 9.06 (NORTH OF SR 162) TO SLM 9.90 (RIDGEWOOD RD.).

WORK THAT MAY BE STARTED AND COMPLETED IN CONSTRUCTION SEASON 2004 IF THE DEPARTMENT ALLOWS. SEE NOTE E UNDER SR 94 - -TIME LIMITS, SEQUENCING WORK, AND LIQUIDATED DAMAGES. IF THE DEPARTMENT DOES NOT ALLOW THE WORK IN CONSRUCTION YEAR 2004 THEN THE WORK SHALL BE STARTED AND COMPLETED IN CONSTRUCTION YEAR 2005

SECTION 4 - SR 94 FROM SLM 8.10 (FIXLER RD.) TO SLM 9.06

WORK THAT SHALL BE STARTED AND COMPLETED IN CONSTRUCTION YEAR 2005:

SECTION 5 - SR 94 FROM SLM 5.56 (SOUTH PROJECT LIMITS) TO SLM 7.45

<u>SR 18 - TIME LIMITS, SEQUENCING WORK AND LIQUIDATED DAMAGES</u>

WORK SHALL BE STARTED AND COMPLETED ON SECTION I IN CONSTRUCTION YEAR 2004.

B. ALL OF THE STRUCTURE AND CULVERT WORK, EXCEPT FOR STRUCTURE MED-18-0685, SHALL BE COMPLETED BEFORE PLANING OPERATIONS BEGIN. THE INTENT IS TO PLANE AND PAVE AFTER THE STRUCTURE WORK IS COMPLETED. STRUCTURE WORK REQUIRING LANE CLOSURES IS NOT TO BEGIN UNTIL APRIL 19, 2004.

C. STRUCTURES REQUIRING PART WIDTH CONSTRUCTION MAY ALL BE PERFORMED AT THE SAME TIME. IT IS NOT INTENDED TO WORK ON ONE STRUCTURE UNTIL COMPLETED THEN START ON ANOTHER.

D. STRUCTURE MED-18-0172 IS LIMITED TO A MAXIMUM OF FORTY-FIVE (45) CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL WORK ON THIS STRUCTURE.

THE CULVERT REPLACEMENT AT MED-18-2.85 IS LIMITED TO A MAXIMUM OF NINETY (90) CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL WORK. IT IS EXPECTED TO PLACE ALL ASPHALT CONCRETE, INCLUDING THE SURFACE COURSE, AS PER THE PLANS THEN HAVE THE PLANING OPERATIONS PLANE THROUGH THIS AREA. THIS WORK WILL PROVIDE CONTINUOUS PLANING AND PAVING OPERATIONS RESULTING IN A SMOOTH

THE CULVERT REPLACEMENT AT MED-18-4.25 IS LIMITED TO A MAXIMUM OF SIXTY (60) CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL WORK. IT IS EXPECTED TO PLACE ALL ASPHALT CONCRETE, INCLUDING THE SURFACE COURSE, AS PER THE PLANS THEN HAVE THE PLANING OPERATIONS PLANE THROUGH THIS AREA. THIS WORK WILL PROVIDE CONTINUOUS PLANING AND PAVING OPERATIONS RESULTING IN A SMOOTH RIDE.

G. STRUCTURE MED-18-0657 IS LIMITED TO A MAXIMUM OF FORTY-FIVE (45) CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL WORK ON THIS STRUCTURE.

STRUCTURE MED-18-0685 WORK CAN BE PERFORMED BEFORE, DURING OR AFTER PAVING OPERATIONS.

I. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES

FAILURE OF THE CONTRACTOR TO MEET ANY OF THE REQUIREMENTS SPECIFIED ABOVE, LIQUIDATED DAMAGES WILL BE ASSESSED PER CMS 108.07.

SR 94 - PAVEMENT PLANING LIMITATIONS

PLANING IS TO BE PERFORMED IN A CONTINUOUS OPERATION WITHIN EACH SECTION (SEE THIS SHEET FOR SECTION LIMITS). AT INTERSECTING STREETS, THE PLANING DEPTH SHALL BE REDUCED TO THE DEPTH OF THE INTERMEDIATE AND SURFACE COURSE THICKNESS IN ORDER TO MINIMIZE
THE IMPACT TO CROSS TRAFFIC. EVERYWHERE OTHER THAN
INTERSECTIONS AND STRUCTURES, WITHIN THE FULL DEPTH
ASPHALT REPLACEMENT LIMITS, THE MAXIMUM DEPTH OF
PAVEMENT PLANING TO BE PERFORMED IN ONE PASS IS
THREE (3) INCHES. THE PAVEMENT DROPOFF SHALL NOT EXCEED THREE (3) INCHES

ASPHALT GRINDINGS SHALL BE USED AT BEGINNINGS, ENDS, INTERSECTIONS, AND STRUCTURES WITHIN THE CLOSED ROADWAY SECTION TO ALLOW LOCAL TRAFFIC IN AND OUT OF THE CONSTRUCTION SECTION. THE CONTRACTOR SHALL ENSURE THAT ACCESS IN AND OUT OF THE CONSTRUCTIONS AREAS ARE MAINTAINED AT ALL TIMES. FAILURE OF THE CONTRACTOR TO MEET ANY OF THE REQUIREMENTS SPECIFIED ABOVE, LIQUIDATED DAMAGES WILL BE ASSESSED BER CMS 108 07 PER CMS 108.07.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED TO MAINTAIN ACCESS AT ALL TIMES DURING CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE B, AS PER PLAN 200 CU YD

SR 94 - MAINTAINING DRIVEWAY ACCESS

THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 DAYS ADVANCED WRITTEN NOTICE TO ALL ADJACENT PROPERTY OWNERS PRIOR TO WORKING IN FRONT OF OR ON DRIVEWAYS. ONE COPY OF THE WRITTEN NOTIFICATION IS TO BE PROVIDED TO THE PROJECT ENGINEER FOR ODOTS RECORDS.

IN ORDER TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES,
THE CONTRACTOR IS TO USE THE ASPHALT GRINDINGS FOR
WEDGES. THESE WEDGES ARE TO BE PLACED WHEN THE
PLANING REMOVES MORE THAN 1.5 INCHES OF PAVEMENT IN A
PASS. COMPACTION REQUIREMENT WILL NOT BE WAIVED. THE
FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED
TO MAINTAIN DRIVEWAYS DURING CONSTRUCTION AS DIRECTED
BY THE ENGINEER. THE TAPER RATE SHALL BE I FT. (RUN)
PER LINCH (RISE) PER I INCH (RISE).

ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE B, 70 CU YD AS PER PLAN

BASE

PLAN SHEET 34 CONTAINS A LISTING OF DRIVEWAYS WHICH ARE TO BE RECONSTRUCTED. THESE DRIVEWAYS HAD TO BE REMOVED IN PART IN ORDER TO PROVIDE A TEMPORARY TRANSITION TO MEET THE PLANED SURFACE OF THE ROADWAY DUE TO THE POTENTIAL NON-TRAVERSABLE "HUMP" CAUSED BY THE PLANING OPERATIONS. THESE DRIVEWAYS ARE TO BE REMOVED AND ASPHALT GRINDINGS INSTALLED AFTER THE FIRST PLANING AND BEFORE THE SECOND AFTER THE FIRST PLANING AND BEFORE THE SECOND PLANING OPERATIONS. IN ORDER TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES, THE CONTRACTOR IS TO USE THE ASPHALT GRINDINGS AS A BASE FOR THE DRIVE AREAS THAT WILL BE REPLACED. ASPHALT GRINDINGS A MINIMUM OF 4 INCHES THICK ARE TO BE USED ON A TEMPORARY BASIS TO PROVIDE AN APRON AND DRIVE CONNECTION TO THE EDGE OF THE ROADWAY. COMPACTION REQUIREMENT WILL NOT BE WAIVED THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED TO MAINTAIN DRIVEWAYS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE B, 60 CU YD AS PER PLAN

<u>SR 94 - TIME LIMITS, SEQUENCING WORK AND LIQUIDATED DAMAGES</u>

A. SR 94 SHALL HAVE THE INTERMEDIATE COURSE PLACED WITHIN THREE (3) CONSECUTIVE CALENDAR DAYS AFTER ANY OF THE PLANING AND ALL OF THE REPAIR WORK HAS BEEN COMPLETED OF THE ROAD CLOSURE SECTION.

B. WORK SHALL BE STARTED AND COMPLETED ON SECTIONS 2 AND 3 IN CONSTRUCTION SEASON 2004. WORK ON SR 94 MAY BE PERFORMED CONCURRENTLY WITH WORK ON SR 18. THE AMOUNT OF WORK IN EACH SECTION IS DEFINED BELOW.

C. FOR SECTION 2, THE CONTRACTOR HAS TWENTY-EIGHT (28) CONSECUTIVE CALENDAR DAYS (INTERIM COMPLETION DATE) TO COMPLETE ALL OF THE WORK AS SPECIFIED IN THE PLANS AND NOTES EXCEPT FOR THE SURFACE COURSE, RAISED PAVEMENT MARKERS, PERMANENT PAVEMENT MARKINGS, LINEAR GRADING, AND GUARDRAIL WORK.

D. FOR SECTION 3, THE CONTRACTOR HAS TWENTY-EIGHT (28) CONSECUTIVE CALENDAR DAYS (INTERIM COMPLETION DATE) TO COMPLETE ALL THE WORK AS SPECIFIED IN THE PLANS AND NOTES EXCEPT FOR THE SURFACE COURSE, RAISED PAVEMENT MARKERS, PERMANENT LONG LINE PAVEMENT MARKINGS, LINEAR GRADING, AND GUARDRAIL WORK.

E. THE DEPARTMENT MAY ALLOW THE CONTRACTOR TO COMPLETE WORK FROM SLM 8.10 TO SLM 9.06 IN THE 2004 SEASON AFTER AUGUST 31, 2004 IF AND ONLY IF THE DEPARTMENT HAS DETERMINED THERE IS NO DETOUR CONSIDERATIONS OR CONFLICTS RESULTING FROM OTHER PROJECTS IN THE AREA. IF THE DEPARTMENT APPROVES THE PROGRESSION OF WORK IN THIS SECTION IN 2004, THE ROADWAY WORK SHALL BE COMPLETED ON OR BEFORE OCTOBER 15, 2004 (INTERIM COMPLETION DATE). OTHERWISE, THE ORIGINAL LIMITATIONS SET FORTH FOR SECTION 4 APPLY.

F. THE SURFACE COURSE, RAISED PAVEMENT MARKINGS AND THE PERMANENT PAVEMENT MARKINGS CAN BE PLACED ON SECTIONS 2 AND 3 (AND NOTE E ABOVE IF APPLICABLE) AT THE SAME TIME.

G. WORK SHALL BE PERFORMED ON SECTION 4 AND 5 IN CONSTRUCTION YEAR 2005. THE AMOUNT OF WORK IN EACH_SECTION IS DEFINED BELOW. SUBJECT TO NOTE

H. FOR SECTION 4, THE CONTRACTOR HAS FIVE (5)
CONSECUTIVE CALENDAR DAYS (INTERIM COMPLETION
DATE) TO COMPLETE ALL OF THE WORK AS SPECIFIED IN
THE PLANS AND NOTES EXCEPT FOR THE SURFACE COURSE,
RAISED PAVEMENT MARKERS, PERMANENT PAVEMENT MARKINGS, LINEAR GRADING, AND GUARDRAIL WORK.

I. FOR SECTION 5, THE CONTRACTOR HAS TWENTY-EIGHT (28) CALENDAR DAYS (INTERIM COMPLETION DATE) TO COMPLETE ALL OF THE WORK AS SPECIFIED IN THE PLANS AND NOTES EXCEPT FOR THE SURFACE COURSE, RAISED PAVEMENT MARKERS, PERMANENT LONG LINE PAVEMENT MARKINGS, LINEAR GRADING, AND GUARDRAIL WORK.

J. THE SURFACE COURSE, RAISED PAVEMENT MARKINGS AND THE PERMANENT PAVEMENT MARKINGS CAN BE PLACED ON SECTIONS 4 AND 5 AT THE SAME TIME.

K. POSITIVE DRAINAGE IS BE PROVIDED AT ALL TIMES.
DURING PLANING OPERATIONS, "BLEEDERS" CONSISTING OF A
SMALL OPEN TRENCH ARE TO BE PROVIDED AND MAINTAINED
AND SUBSEQUENTLY RESTORED TO THEIR ORIGINAL
CONDITION BY THE CONTRACTOR TO MAINTAIN DRAINAGE AS
PER CMS 105.14. THE "BLEEDERS" ARE TO BE PLACED FROM
THE PLANED PAVEMENT TO THE OPEN DITCH IN ORDER TO
PREVENT WATER FROM PONDING CREATED BY THE PLANING
OPERATIONS. THE CONTRACTOR SHALL DETERMINE THE
NUMBER AND LOCATIONS OF THESE BLEEDERS. THE MINIMUM
SIZE OF A BLEEDER IS 18" WIDE AND 4" BELOW THE FINAL
PLANING OPERATION. CONSIDER THE COST OF THIS WORK
AS INCIDENTAL TO THE AFFECTED ITEMS. AS INCIDENTAL TO THE AFFECTED ITEMS.

L. NO LANES ARE TO BE CLOSED UNTIL PUBLIC SCHOOL ENDS FOR THE SCHOOL YEAR. THE ROADWAY WORK SHALL BE COMPLETED BEFORE THE FOLLOWING SCHOOL YEAR BEGINS. THE CONTRACTOR SHALL CONTACT THE SCHOOLS ONE WEEK IN ADVACE TO ENSURE THE END AND BEGINING OF THE SCHOOL YEAR DATE AND SCHEDULE ACCORDINGLY.

FAILURE OF THE CONTRACTOR TO MEET ANY OF THE REQUIREMENTS SPECIFIED ABOVE, LIQUIDATED DAMAGES WILL BE ASSESSED PER CMS 108.07.



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"DO NOT ENTER" SIGNS SHALL BE DUAL INSTALLATION, ONE ON EACH SIDE OF THE ROAD, AT EACH INTERSECTION AND ALL COMMERCIAL DRIVES. "WRONG WAY" SIGNS SHALL BE INSTALLED AT EACH CROSS STREET200 FT. FROM INTERSECTIONS AND COMMERCIAL DRIVES, EVERY 500 FT. THERE AFTER. "ROAD CLOSED TO THROUGH TRAFFIC" SIGNS ARE TO BE INSTALLED AT EACH INTERSECTION. "ONE WAY" SIGNS ARE TO BE INSTALLED AS PER THE TRAFFIC STANDARD CONSTRUCTION DRAWINGS. PAYMENT FOR PROVIDING, MAINTAINING, REMOVAL, RE-ERECTING AND SUBSEQUENT REMOVAL ARE TO BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

SR 94 - MAINTENACE OF TRAFFIC

TRAFFIC IS TO BE DETOURED AS SHOWN ON PLAN
SHEET 10. LOCAL TRAFFIC SHALL ONLY TRAVEL IN ONE
DIRECTION AT ALL TIMES DURING CONSTRUCTION AND
"ONE WAY" SIGNS ARE TO BE ERECTED BY THE ENGINEER
EVERY 250 FEET (BOTH SIDES OF THE ROAD) OR OPPOSITE
EVERY DRIVEWAY, WHICHEVER DISTANCE IS LESS, BY THE
CONTRACTOR. THE ONE WAY OPERATION SHALL OPERATE
IN THE SAME DIRECTION FOR BOTH LANES OF WORK IN
ORDER TO MINIMIZE CONFUSION BY LOCAL TRAFFIC. AT
THE REQUEST OF THE SHARON FIRE DEPARTMENT, THE
ONE WAY SIGNS NORTH OF SR 162 SHALL BE SIGNED TO
TRAVEL IN THE NORTHBOUND DIRECTION AND SOUTH OF
SR 162 SHALL BE SIGNED TO TRAVEL IN THE SOUTHBOUND
DIRECTION.

THE PROJECT IS DIVIDED INTO SHORT WORK SEGMENTS, OR SECTIONS TO GET AS MUCH ROADWAY WORK COMPLETED IN AS LITTLE TIME TO MINIMIZE THE INCONVENIENCE TO THE LOCAL TRAFFIC AND ADJACENT PROPERTIES.

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

SR 94 IS TO BE CLOSED TO ALL BUT LOCAL TRAFFIC OF ABUTTING PROPERTY OWNERS. ONE WAY TRAFFIC, SHALL BE MAINTAINED AT ALL TIMES. A DETOUR ROUTE SHALL BE PROVIDED AS SHOWN HERON. ALL SIGNING SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL USE THE SIGN R-76A-60 AS SHOWN BELOW AT THE BEGINNING, END, AND ALL INTERSECTING ROADS OF THE SECTION OF ROADWAY BEING CONSTRUCTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALING, MAINTAINING, AND REMOVING THESE SIGNS. AT START OF OFFICIAL DETOUR, R-76C AT ROAD CLOSURE GOING INTO ONE-WAY, R-75 GOING AGAINST ONE-WAY FLOW AT CLOSURE POINT.

ROAD CLOSED TO THRU TRAFFIC

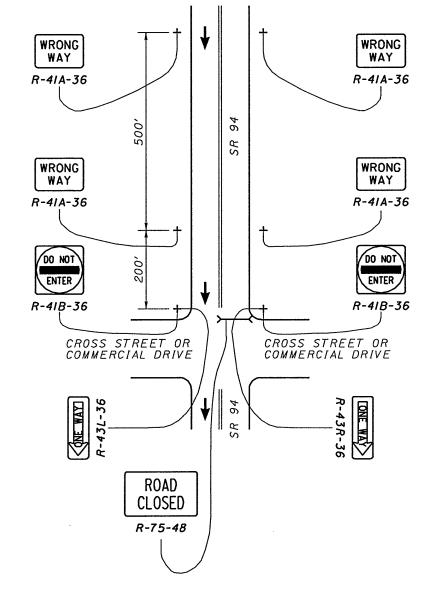
R-76C-60

ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY

R-76A-60

ROAD CLOSED

R-75-48



SEE STANDARD CONSTRUCTION DRAWING TC-41.50 FOR MOUNTING ONE WAY SIGNS

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7				0111	التا	NUME)EK					ITEM	ITEM	TOTAL	UNIT	DESCRIPTION	REF.
	8		17	18	19	20	34	35	39	69	82		EXT.				SHEET
1																	
 		 								1.00	1100	500	44400	11945		DRAINAGE	ļ
	 	 					 			LUMP	LUMP	503 503	11100 21300	LUMP		COFFERDAMS, CRIBS AND SHEETING UNCLASSIFIED EXCAVATION	<u> </u>
 		-	 							3692	2552	509	10000	6244	POUND	EPOXY COATED REINFORCING STEEL	<u> </u>
		 	1					 		54	35	511	46201	89	CU YD	CLASS C CONCRETE, AS PER PLAN (RET WALL/WINGWALL-INCL. FTG.)	77&93
										225	220	512	33000	445	SQ YD	TYPE 2 WATERPROOFING	77435
		ļ								29	24	516	13600	53	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	
ļ			-							LUMP	LUMP	518	21230	LUMP		POROUS BACKFILL WITH FILTER FABRIC	ļ
		 				55	ļ		<u> </u>		ļ	603	01500	55	<u>FT</u>	6" CONDUIT, TYPE F	
 		+	+			10 65	ļ				 	603 603	02600 04400	10 65	<u>FT</u> FT	8" CONDUIT, TYPE F 12" CONDUIT, TYPE B	
		 				- 00						003	04400	1 05	<u>F!</u>	12 CONDOIT, TIFE B	
						121				35		603	04600	156	FT	12" CONDUIT, TYPE C	
											286	603	04900	286	FT	12" CONDUIT, TYPE D	
						20						603	07400	20	FT	18" CONDUIT, TYPE B	
ļ									15		ļ	603	16900	15	<u>FT</u>	36" CONDUIT, TYPE D	
<u> </u>		 									92	603	94800	92	<u> </u>	8' X 4' CONDUIT, TYPE A, 706.05, (1'-6" COVER)	
l		 	 							81	 	603	94981	81	FT	10' X 4' CONDUIT, TYPE A, 706.05, AS PER PLAN (1'-6" COVER)	77
	 	 	-			3				1 1		604	00800	4	EACH	CATCH BASIN, NO. 3A	
						1					1	604	04500	2	EACH	CATCH BASIN, NO. 2-2B	
	23											604	09000	23	EACH	CATCH BASIN ADJUSTED TO GRADE	<u> </u>
	_					2						604	10100	2	EACH	INLET, SIDE DITCH	
		ļ				1						604	31500	1 1	EACH	MANHOLE, NO. 3	<u> </u>
	1 2	 	+									604	34500	2	EACH	MANUOLE ADJUSTED TO ODADE	ļ
	 -	 	 							29	. 28	864	10100	57	EACH SQ YD	MANHOLE ADJUSTED TO GRADE SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	1	 	1							 _	- 20	004	10100	+ 3/ +	30 10	GLALING OF CONONLIE SUNFACES (EFOXT-UNE THANE)	
																	<u> </u>
											·					PAVEMENT	
		ļ			375							252	01500	375	FT	FULL DEPTH PAVEMENT SAWING	
900	- 	ļ	332740				ļ					253	02000	900	CU YD	PAVEMENT REPAIR	ļ
			10029								<u> </u>	254 254	01000	332740 10029	SQ YD SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE PATCHING PLANED SURFACE	
		 	10023							60	35	301	46000	95	CU YD	ASPHALT CONCRETE BASE, PG64-22	
		<u> </u>												"		7011761 00101616 0706, 1 007 22	
			2047									301	46001	2047	CU YD	ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	8
					6		42			29	33	301	48000	110	CU YD	ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)	
	-	ļ		2855						29		302	46001	2884	CU YD	ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	8
		 	-							120	24	304	20000	144	CU YD	AGGREGATE BASE	ļ
	-		14799							19	11	407	10000	14829	GALLON	TACK COAT	
		 	4050							19	 ''	407	13900	4050	GALLON	TACK COAT, 702.13	<u> </u>
			8586							7	4	407	14000	8597	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
				12193								408	10000	12193	GALLON	PRIME COAT	
		<u> </u>	2972									442	00201	2972	CU YD	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), AS PER PLAN	8
		 	6845							10	6	442	10000	6861	CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	ļ
		ļ	3422 3467							5	5	442 442	20100	3432 3467	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5MM, TYPE A (448)	ļ <u>-</u>
		 	3407									442	20201	3467	COYD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN	8
		 	 		2		14			8	11.	448	48020	35	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS)	
	1	†					82			 	 	452	10000	82	SQ YD	6' NON-REINFORCED CONCRETE PAVEMENT	
					279					455		609	26000	734	FT	CURB, TYPE 6	†
					69							609	98000	69	FT	CURB, MISC.: DROP CURB	4
				1273				132				617	10101	1405	CU YD	COMPACTED AGGREGATE, TYPE A, AS PER PLAN	8
		ļ															
		 	 	30481							ļ	617	20000	30481	SQ YD	SHOULDER PREPARATION	
	ı	1	1 1	1	125		l	, ,	1	1	1	SPECIAL	69012050	125	SQ YD	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	7

GENERAL SUMMARY

		<u> </u>	. 7				IMA											
				SHEE	ET NU	MBE	R					ITEM	ITEM	TOTAL	UNIT	DESCRIPTION	REF.	
	11	12						39	49	69	82		EXT.				SHEET	
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	-	330	 	-				 	 		ļ	410	44004	 	OLLVD	MAINTENANCE OF TRAFFIC		4
	 	330	 	 	 			 	<u> </u>	 	 	410 614	11001	330	CU YD	TRAFFIC COMPACTED SURFACE, TYPE B, AS PER PLAN	12	4
	 	 	 	 				-	 	1	 	614	12336	6	MONTH	WORKSITE TRAFFIC SUPERVISOR	10	4
	78		 	 	 	 			 	 	ļ	614	12336	2	EACH_	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) WORK ZONE MARKING SIGN		4
	20		 		1					 	 	614	12500	78	EACH EACH	REPLACEMENT SIGN		4
			 	-	 			 		 	1	1 0,4	12300	 _2 0	EACH			\dashv
	25		<u> </u>					1	 	 	 	614	12600	25	EACH	REPLACEMENT DRUM		┨
							—	 		403	194	614	12800	597	EACH	WORK ZONE RAISED PAVEMENT MARKER		\dashv
	100							1			.,,	614	13000	100	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		1
						T				14	17	614	13302	31	EACH	BARRIER REFLECTOR, TYPE B2		\dashv
									1	14	17	614	13360	31	EACH	OBJECT MARKER, TWO WAY		1
											1	1		, ,				1
										0.34	0.12	614	21000	0.46	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)		7
	<u> </u>	<u> </u>							38.73			614	21500	38.73	MILE	WORK ZONE CENTER LINE, CLASS II, 642 PAINT		1
<u> </u>			ļ		ļ			ļ		0.56	0.04	614	22000	0.60	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)		J
	ļ		ļ	-	ļ					24	48	614	26000	72	FT	WORK ZONE STOP LINE, CLASS I]
	- 	ļ	ļ	<u> </u>	ļ				ļ	ļ		ļ						
 	-			 			-	 	ļ	LUMP	LUMP	615	10000	LUMP		ROADS FOR MAINTAINING TRAFFIC		_
 	 		 	 				 	<u> </u>	590	430	615	25000	1020	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B		4
 	 		 	-	-	+	-	<u> </u>	 	680	750	622	40020	1430	<u>FT</u>	PORTABLE CONCRETE BARRIER, 32"		4
 	 		 	 	 	 		 		 	-	 	<u> </u>					4
	 		 	 	-		- 	 	 	 		 	 	 -				4
 	T		 	 	1		-	 			<u> </u>		 	- 		TRAFFIC CONTROL		\dashv
1	1		 	 	 	1		-	1057	 	<u> </u>	621	00200	1057	EACH	RPM, INSTALLATION ONLY		\dashv
			 	 	1		 	101	1007	 		626	00100	101	EACH	BARRIER REFLECTOR, TYPE A		\dashv
			 				1	† · · · ·	27.97	 	 	642	00102	27.97	MILE	EDGE LINE, TYPE 2		\dashv
					†			 	14.14		†	642	00302	14.14	MILE	CENTER LINE, TYPE 2		\dashv
				T						 	1	· · · · ·	00002	1 1111	1411-1-	Valvi all aliva, i i i la Z		\dashv
									75			644	00400	75	FT .	CHANNELIZING LINE		1
									410			644	00500	410	FT	STOP LINE	_	1
									746			644	00600	746	FT	CROSSWALK LINE		1
									273			644	00700	273	FT	TRANSVERSE LINE		7
	 		ļ		ļ			<u> </u>	5		<u> </u>	644	01110	5	EACH	SCHOOL SYMBOL MARKING, 96"		_
 	 			<u> </u>				ļ			ļ	ļ						
ļ			ļ	 		 	_	 	1			644	01300	1 1	EACH	LANE ARROW		
ļ	-		ļ		 	 	-		1	<u> </u>	ļ	644	01410	1 1	EACH	WORD ON PAVEMENT, 96", ONLY		_
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 	 		 	 	+			 		 				-	****	STRUCTURES		4
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T							T	 		 	 	 				BRIDGE NO. MED-18-0172 (SLM) SFN 5200482		\mathbf{H}
				1	 	1			l				İ	 		SEE STRUCTURE SUMMARY ON SHEET NO. 98		\exists
					T											THE OTHER COMMENTS OF COLLECTIONS		\dashv
					1					1		 				BRIDGE NO. MED-18-0657 (SLM) SFN 5200636		\dashv
							*			l						SEE STRUCTURE SUMMARY ON SHEET NO. 99		1
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										1						BRIDGE NO. MED-18-0685 (SLM) SFN 5200660		1
																SEE STRUCTURE SUMMARY ON SHEET NO. 100		٦
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<u> </u>	-		 		 	 				L		619	16010	12	MONTH	FIELD OFFICE, TYPE B		\perp
 	 		 	 	 	 	 	 	ļ			623	10000	LUMP	····	CONSTRUCTION LAYOUT STAKES		厶
		I	1	1	1	1	1	1	I	I	1	624	10000	LUMP		MOBILIZATION	1	Ш

	1			T		*	- FC	OR TYPICAL	LS, SEE SHEE	Т3	SR 18D & S	R 94D - RO	UNDABO	JT SECTION											
		100	DOWE	L	ENGTH		*			25	54	ASPHALT (01 CONCRETE	407	407	407		142	4	142	-	142		442	JPF BAD
DADT	ROUTE		POINT TO		Ī	WIDTH	Т	EXISTING PAVEMENT	PAVEMENT AREA	PAVEMENT PLANING,	PATCHING PLANED	BASE,		FOR INTERMEDIATE	COAT	COAT	INTER	CONCRETE MEDIATE		CONCRETE E COURSE,	INTERMEDIA	CONCRETE ATE COURSE,	SURFA	T CONCRETE CE COURSE,	CALC BY: JE
7111	110012	LOG	POINT	MILE	FEET	AVG.	P	TYPE		ASPHALT	SURFACE			COURSE	@ 0.08	@ 0.08		E, 9.5MM, A (448)		YPE A (446)		YPE A (448), ER PLAN		TYPE A (446), PER PLAN	K'D K'D
						///	C			CONCRETE	CON NOL	THICK		@ 0.03 GAL/SY	GAL/SY	GAL/SY	THICK		THICK		THICK		THICK	· [· · · · · · · · · · · · · · · · · ·	1 0
							A					AVG.		GAL/SY		(702.13)	AVG.		AVG.		AVG.		AVG.		
		STRAIGHT L	INE MILEAGE				-		SQ YD	SQ YD	SQ YD	INCH	CUYD	GALLON	GALLON	GALLON	INCH	CU YD	INCH	CU YD	INCH	CU YD	INCH	CUYD	
Α	SR 18	0.00	2.44	2.44	12883.2	30.0	1	404	42944	42944	2147			1288	3436		0.75	895	1.5	1789					1
Α	SR 18	2.44	2.61	0.17	897.6	28.0	2	404	2793	2793	140			84	223		0.75	58	1.5	116					
Α	SR 18D	2.61	2.69	0.08	422.4	29.0	2	404	1361	1361	68			41	109		0.75	28	1.5	57					
Α	SR 18	2.69	2.85	0.16	844.8	28.0	2	404	2628	2628	131		ļ	79	210		0.75	55	1.5	110					
Α	SR 18	2.85	2.98	0.13	686.4	29.0	3	404	2212	2212	111		ļ	66	177		0.75	46	1.5	92					4
Α	SR 18	2.98	7.98	5.00	26400	30.0	1	404	88000	88000	4400			2640	7040	-	0.75	1833	1.5	3667		ļ <u></u>		_	4
Α .	SR 18	7.98	8.13	0.15	792	41.0	1	404	3608	3608	180			108	289		0.75	75	1.5	150					-
Α	SR 18	8.13	9.10	0.97	5121.6	28.0	1	404	15934	15934	797			478	1275		0.75	332	1.5	664				-	-
		REA FOR DRIVES, + M.E	L			1			3996	900	45			120	320		0.75	83	1.5	167					
	IIVI LNO.	, J, 11 V E.O., + IVI.E							3770	300	40			120	320		0.75	83	1.5	16/					ATA
Α	SR 83	12.793	12.846	0.05	279.8	25.5	4	404	793	793	40			24	63		0.75	17	1.5	33					
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	SUB-	TOTAL SR	18	9.15	48327.8					161173	8059			4928	13142			3422		6845					
																									PAVEMENT
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						ļ			CORUN DE LE DIN DESCRIPTION																₹
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В	SR 94	5.56	5.91	0.35	1848	25.0	7	404	5133	5133	513			154	411						1.75	250	1.5	214	4
В	SR 94	5.91	7.45	1.54	8131.2	25.0	6	404	22587	67760		4	903	1355		1807	<u> </u>				1.75	1098	1.5	941	-
B	SR 94 SR 94	8.10	8.30 8.57	0.20 0.27	1056	25.0	7	404	2933	2933	293			88	235		1				1.75	143	1.5	122	-[
B B	SR 94D	8.30 8.57	8.65	0.27	1425.6 422.4	24.0	8 9	404 404	3802 1033	3802 1033	380 103			114 31	304 83		1				1.75 1.75	185	1.5	158	-
$\overline{}$	SR 94	8.65	9.06	0.41	2164.8	25.0	7	404	6013	6013	601			180	481						1.75	50 292	1.5	43 251	1
	SR 94	9.06	9.24	0.18	950.4	25.0	6	404	2640	7920		4	106	158		211					1.75	128	1.5	110	1
	SR 94	9.24	9.66	0.42	2217.6	24.0	5	404	5914	17741		4	246	355		473					1.75	287	1.5	246	1
В	SR 94	9.66	10.03	0.37	1953.6	25.0	6	404	5427	16280		4	217	326		434					1.75	264	1.5	226	
В	SR 94	10.03	10.58	0.55	2904	24.0	5	404	7744	23232		4	323	465		620					1.75	376	1.5	323	
\neg	SR 94	10.58	11.01	0.43	2270.4	25.0	6	404	6307	18920		4	252	378		505			ļ		1.75	307	1.5	263	4
_		REA FOR															<u> </u>			ļ					4
	INTERS.,	DRIVES, + M.B	<u>. </u>			 			1790	800	80			54	143		<u> </u>				1.75	87	1.5	75	-
	SHP.7	TOTAL SR	0/1	4.80	25344.0					171567	1970				44==										18-0.00
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				*	- FC	7		SEE SHEET 3					SR 94D ·	- ROUND			ON		Ţ	 	
			LE	NGTH		SHO	VED ULDER POSED	PAVED SHOULDER	LIN	EAR DING	ASPHALT BASE, I	CONCRETE			AGGRI SHOU PROP	1	AGGREGATE SHOULDER	SHOULDER PREPARATION	617 COMPACTED AGGREGATE,	408 PRIME COAT	CALC BY: JPF CHK'D BY: BAD
Р					*	wı	IDTH	AREA			AS PE	R PLAN			WIC	тн	AREA		TYPE A,		CALC
R ROUTE	LOG P				т		EET								FE				AS PER PLAN		
1	LOG P				Y P	(A'	VG.)								(AV	(G.)				@ 0.40 GAL/SY	
	LOGF	OINT			c														(2.0 TON/CU.YD.)		
ļ			MILE	FEET	L														1.50 IN.		
						Α	В								С	D			AVG. THICKNESS		
								SQ YD		MILE	INCH	CUYD					SQ YD	SQ YD	CU YD	GALLON	
	STRAIGHT LII	NE MILEAGE						3Q 1D		WILE	INCH	COTE					30 10	30 10	0010	GALLON	
A SR 18	0.00	2.44	2.44	12883.2	1					4.88					2.0	2.0	5726	5726	239	2290	
A SR 18 A SR 18	2.85 2.98	2.98 7.98	0.13 5.00	686.4 26400	1	-	1			0.13 10.00					2.0	2.0	153 11733	153 11733	489	61 4693	
A SR 18	7.98	8.13	0.15	792	1					0.30					2.0	2.0	352	352	15	141	
A SR 18	8.13	9.10	0.97	5121.6	1					1.94					2.0	2.0	2276	2276	95	910	ATA
	REA FOR				<u> </u>	╂											1308	1308	55	 523	— ≥
A SR 83	DRIVES, + M.B. 12.793	12.846	0.05	279.8	4	VAR.		181.2		0.11	13.75	69			2.0		62	62	3	25	
																					DER
SUB-1	TOTAL SR 1	18	8.74	46163		ļ	<u> </u>			17.36		69	<u> </u>		ļ		***************************************	21610	902	8643	=
					ļ										 		Water Street				SHOUL
B SR 94	5.56	5.91	0.35	1848	7		<u> </u>			0.70					2.0	2.0	821	821	34	328	
B SR 94 B SR 94	5.91 8.10	7.45 8.30	1.54 0.20	8131.2 1056	7	3.5	3.5	6324		3.08 0.40	7	1230			2.0	2.0	3614 469	3614 469	151 20	1446 188	
B SR 94D	 	8.65	0.20	422.4	9					0.40					2.0	2.0	94	94	4	38	
B SR 94	8.65	9.06	0.41	2164.8	7					0.82					2.0		962	962	40	385	
B SR 94	9.06	9.24	0.18	950.4	6	3.5		739		0.36	7	144 335			2.0	2.0	422	422	18	169	
B SR 94 B SR 94	9.24 9.66	9.66	0.42 0.37	2217.6 1953.6	5 6	3.5 3.5		1725 1519		0.84 0.74	7	295			2.0	2.0	868	868	36	 347	
B SR 94	10.03	10.58	0.55	2904	5	3.5		2259		1.10	7	439									
B SR 94	10.58	11.01	0.43	2270.4	6	3.5	3.5	1766		0.86	7	343	<u> </u>		2.0	2.0	1009	1009	42	 404	
	REA FOR DRIVES, + M.B.					-											612	612	26	245	
INTERIO.,	D1 (1 V LO, + W.D.																	012			
SUB-1	TOTAL SR	94	4.53	23918.4						9.06		2786						8871	371	3550	
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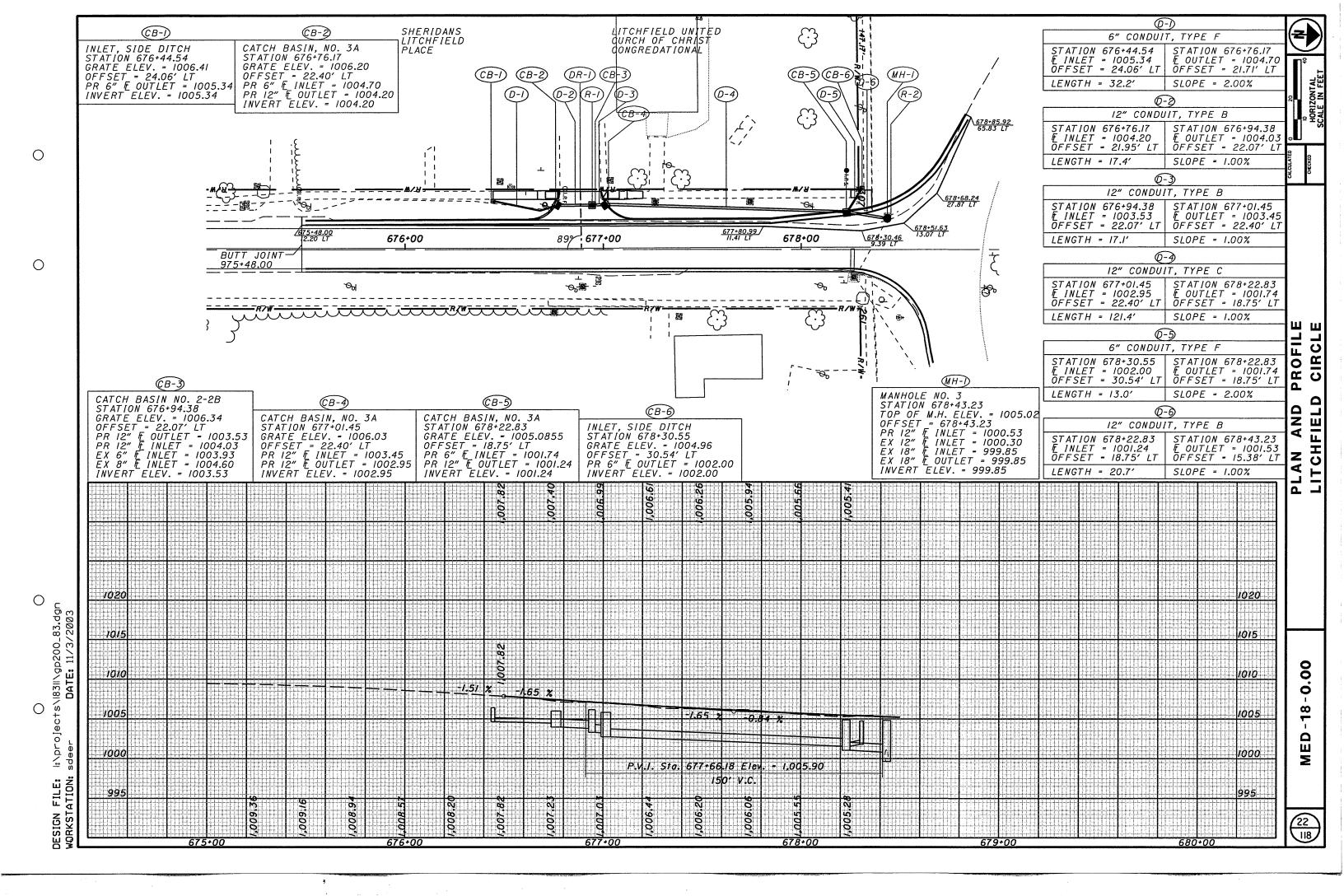
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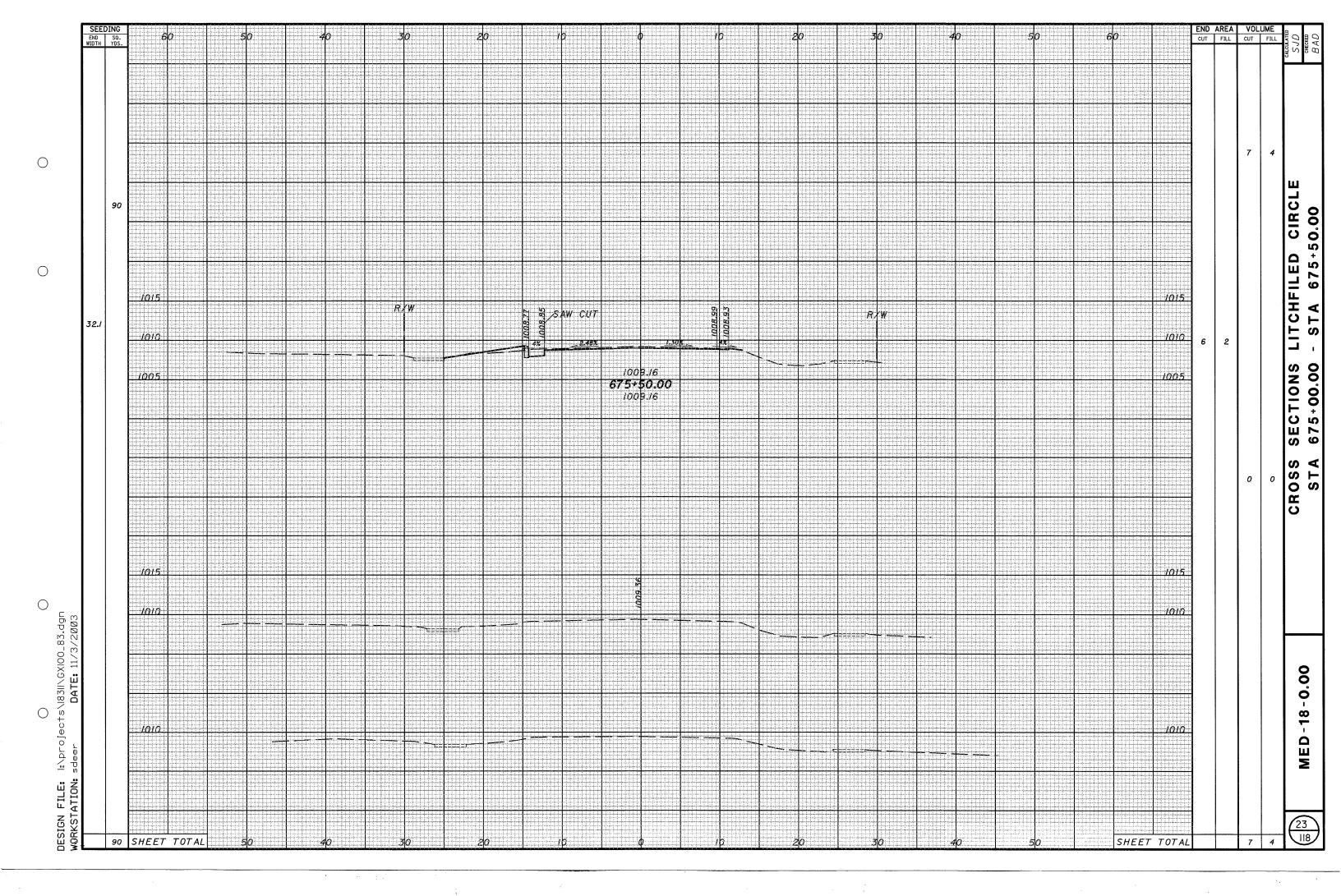
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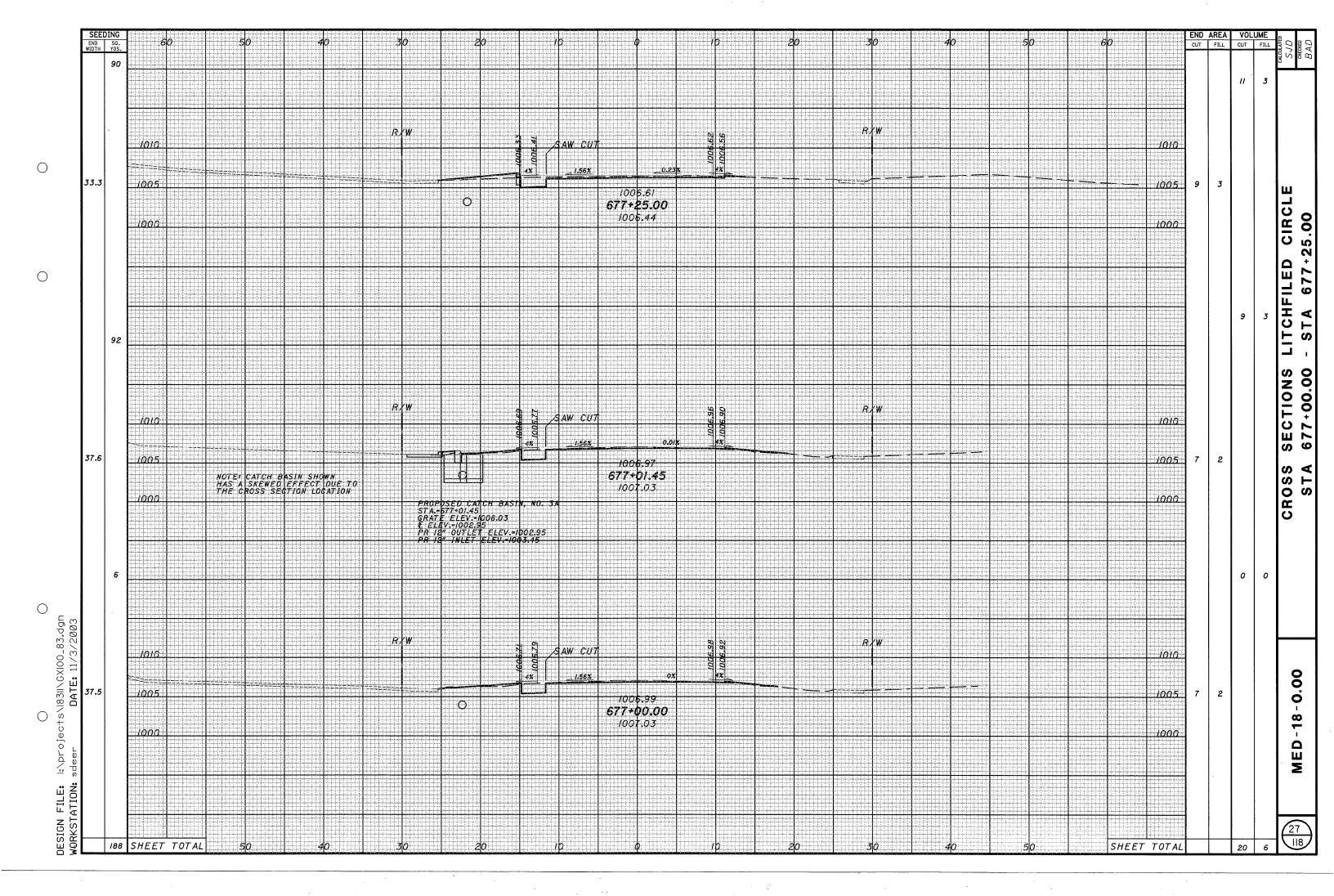
											ITEM						•			
]			202	202	202	202		203	203	252	301	448	608	608	609	609	SPECIAL	
REFERENCE NO. PLAN AND PROFILE SHEET		STATION		SIDE	WALK REMOVED	CURB AND GUTTER REMOVED	PARKING BLOCK REMOVED	CATCH BASIN REMOVED		EXCAVATION	EMBANKMENT, AS PER PLAN	FULL DEPTH PAVEMENT SAWING	ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 (DRIVEWAYS)	4" CONCRETE WALK	CURB RAMP, AS PER PLAN	CURB, TYPE 6	CURB MISC.: DROP CURB	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS (3' WIDE)	
		FROM	то		SQ FT	FT	EACH	EACH		CU YD	CU YD	FT	CU YD	CU YD	SQ FT	SQ FT	FT	FT	SQ YD	
R-1	21	676+94.37		LT				1												
R-2	21	678+43.36		LT				1												
R-3	21	676+94.37	678+85.82	LT		79.8														
R-4	32	676+44.55	676+77.25	LT	131															
R-5	32	676+99.50	677+20.10	LT	82	ļ			ļ											
R-6	32	676+99.00	677+11.00	·	<u> </u>		2												ļ	
		ļ	 			-	 	ļ											ļ	
C-1	21	675+50.00	676+77.51	LT		-											135.3		 	ļ
C-2	21 21		678+22.82	LT			 	 	 								143.6		-	
C-3	21	678+22.82	678+83.00	LT					 								, , , , , ,	68.5		
CR-1	32	676+70.75	676+77.50	LT												28.8				
CR-2	32	676+98.96		LT												38.6				
DR-1	21	676+89.00		LT						7.4			5.9	1.6						
PS-1	21	675+48.00	678+85.92	LT								375.3							125.1	
014/4		070 44.55	070 70 70	1.7					ļ						444.0				ļ	
SW-1 SW-2	32 32	676+44.55 677+08.12	676+70.76 677+20.12	LT LT								 			111.3 48.7					
344-2	32	077+00.12	077+20.12	<u> </u>											40.7					
	· · · · · · · · · · · · · · · · · · ·																			
*	23	675+00.00	675+50.00							7	4									
*	24	675+75.00	676+25.00							17	16									
*	25	676+44.54	676+75.00							12	4									
*	26	676+76.17	676+94.38							9	3			-						
*	27	677+00.00								20	6									
*	28		678+00.00				ļ			40	4									
	29		678+30.55				ļ	ļ	ļļ	17	0								ļ	
	30	678+43.23	679+00.00							61	0									
	*	THESE QUAN	I NTITIES ARE I	FROM THE	L F CROSS S	SECTION S	HEETS EC)R SR 83												
		I TILOL GOAL	I	I I CON TITL	_ 01.000 c	I I I I I I I		1 011 00.			**************************************									
																				
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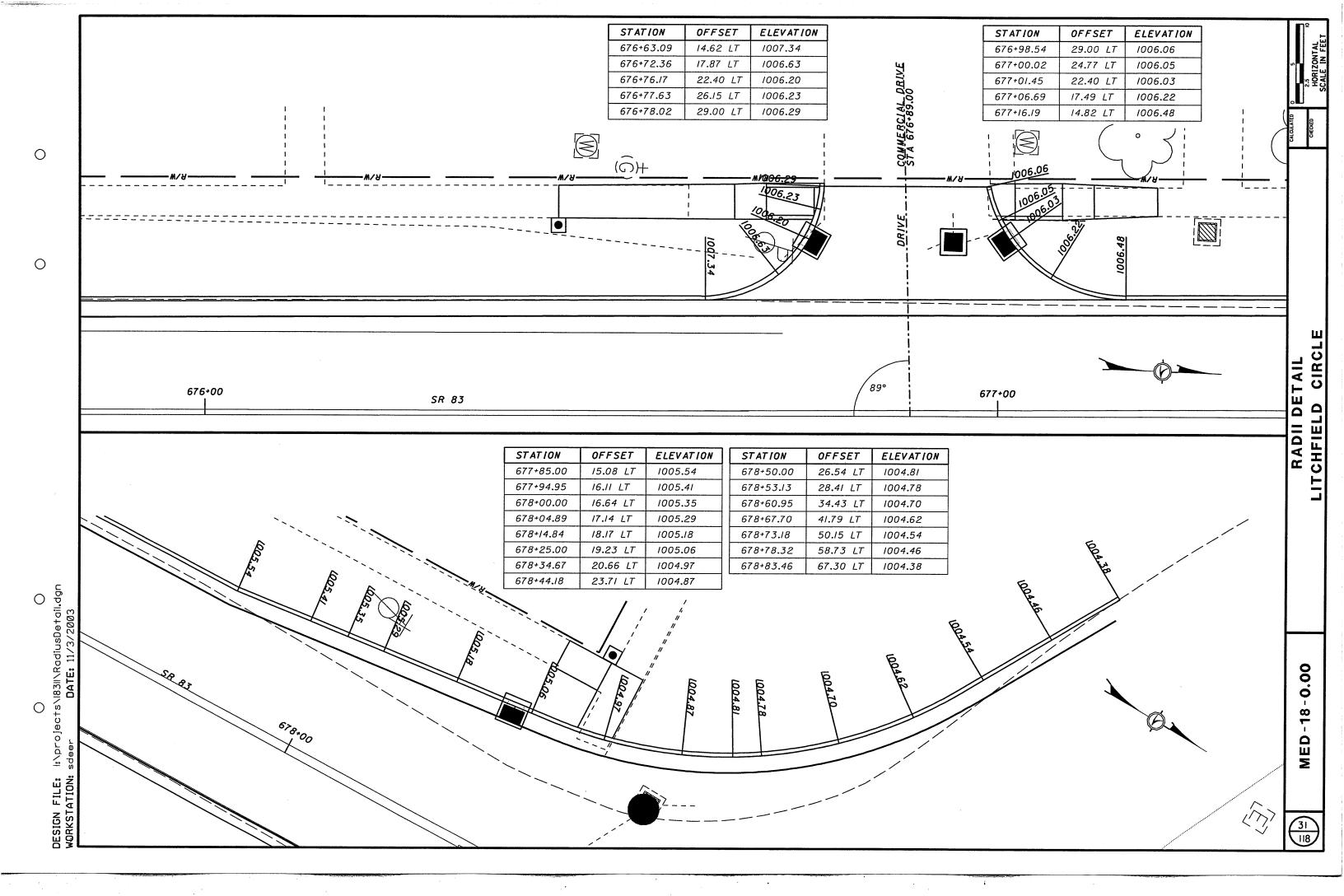
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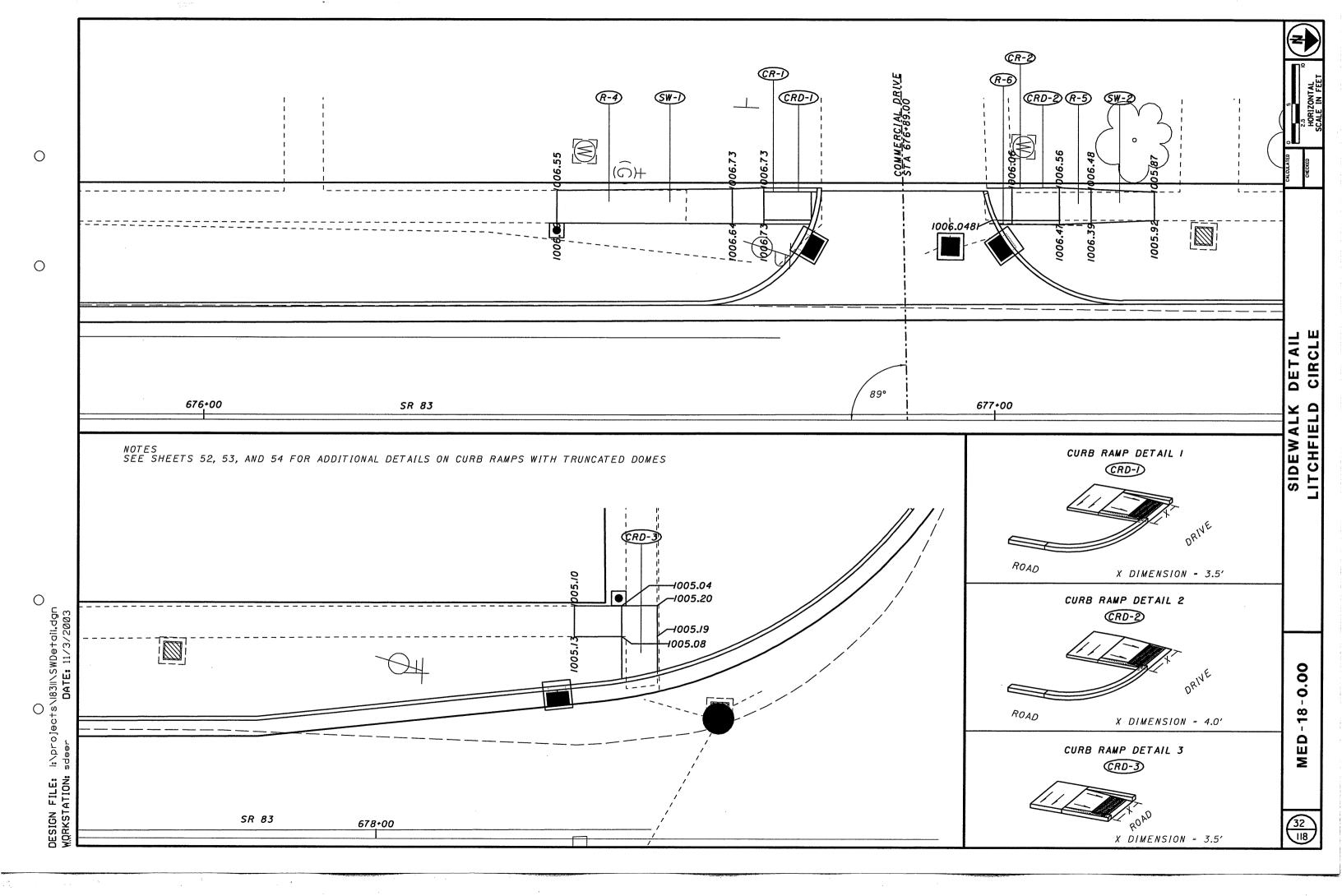
		ITEM															*				
						603	603	603	603	603		604	604	604	604						
REFERENCE NO. PLAN AND PROFILE SHEET		STATION		SIDE		6" CONDUIT, TYPE F	8" CONDUIT, TYPE F	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	18" CONDUIT, TYPE B		CATCH BASIN, NO.3A	CATCH BASIN, NO. 2-2B	INLET, SIDE DITCH	MANHOLE, NO. 3						
		FROM	TO			FT	FT	FT	FT	FT		EACH	EACH	EACH	EACH						
CB-1	21	676+44.54		LT										1							
CB-2	21	676+76.17		LT								1 1									ļ
CB-3	21	676+94.38		LT		10.0	10.0				<u> </u>		1								
CB-4	21	677+01.45		LT LT								1									<u> </u>
CB-5 CB-6	21 21	678+22.83 678+30.55		LT								1		1			ļ		ļ		
OD-0		070+30.55		L1		-			 					1		ļ					
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D-1	21	676+44.54	676+76.17	LT		32.2			1						,		 				
D-2	21	676+76.17	676+94.38	LT				17.4													
D-3	21	676+94.38	677+01.45	LT				17.1													
D-4	21	677+01.45	678+22.83	LT					121.4						-						
D-5	21	678+30.55		LT		13.0															
D-6	21	678+22.83	678+43.23	LT				20.7									ļ				
Adlia		070 40 00						40.0		20.0											
MH-1	21	678+43.23		LT				10.0	<u></u>	20.0					11						
																					
																					
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		THE CONDU																			
		THE LENGTH	I SHALL BE L	JE I EKMIN	I NED RA 1H	IE ENGINE I	EKINIHE	: FIELD. C	UNDUH R	EQUIRING	KEPLACE	MENI WIL	TRF VI I	HE EXIST	NG SLOP	E.	<u> </u>				
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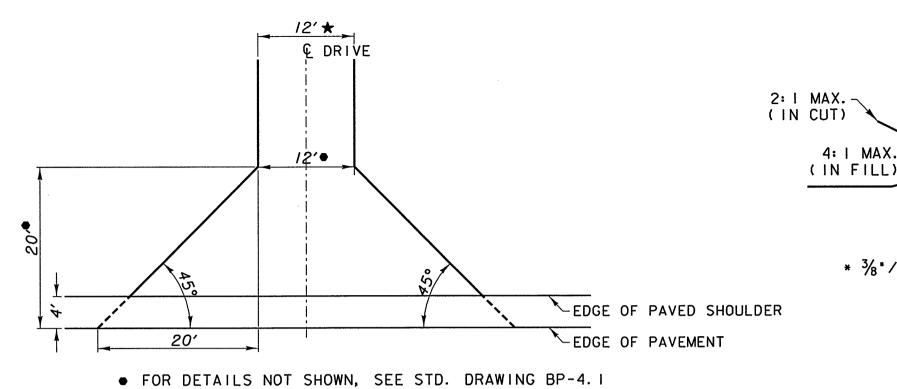




(IN CUT)

4: I MAX.

(IN FILL)



* 3/8"/FT. CROSS SLOPE FOR AGGREGATE DRIVES

TYPICAL SECTION

© DRIVE

 $-\frac{3}{16}$ "/FT. *

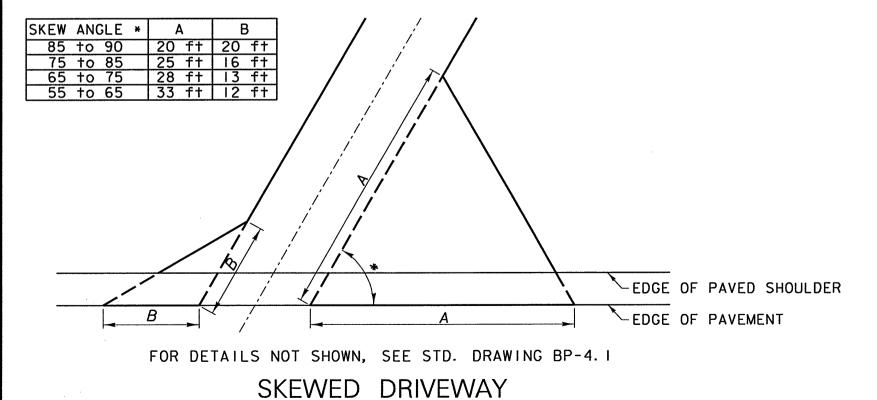
-PROP. PAVEMENT

3/16"/FT. *

4: I MAX.

- * ACTUAL DIMENSIONS SHOWN ON THE PLANS
- UNLESS NOTED OTHERWISE ON THE PLANS

PLAN VIEW



COMMERCIAL DRIVE BUILDUP

- 8" ITEM 452, 8" NON-REINFORCED CONCRETE PAVEMENT
- 0R 11/4" - ITEM 448, ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 (DRIVEWAYS) 4¾" - ITEM 301, ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS)

RESIDENTIAL DRIVE BUILDUP

- 6" ITEM 452, 6" NON-REINFORCED CONCRETE PAVEMENT OR
- 11/2" ITEM 448, ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 (DRIVEWAYS) 3¾" - ITEM 301, ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS)

FIELD DRIVE BUILDUP

6" - ITEM 304, AGGREGATE BASE

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ITEM 301 - ASPHALT CONCRETE BASE PG64-22 (DRIVEWAYS)

HOUSE # 5563 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YD

HOUSE # 5701 (Residential) 22' X 10' = 220 SQ FT (220) (0.313) /27 = 2.6 CU YD

BUSINESS # 6100 (Commercial) 60' X 10' = 600 SQ FT (600) (0.396) /27 = 8.8 CU YD

HOUSE # 6152 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YD

HOUSE # 6216 (Residential) 19' X 10' = 190 SQ FT (190) (0.313) /27 = 2.2 CU YD

HOUSE # 6239 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU. YD.Note: There are two drives at this residence. The Southern Drive at this location is to be left open. The Full Depth Pavement Replacement is to start just past the Southern drive and include the Northern drive at this location, start Full Depth at SLM 9.06.

HOUSE # 7225 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YD

HOUSE * 7296 (Residential) 17' X 10' = 170 SQ FT (170) (0.313) /27 = 2.0 CU YD

HOUSE * 7559 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YD

BUSINESS # 7697 (Commercial) 60' X 10' = 600 SQ FT (600) (0.396) /27 = 8.8 CU YD

HOUSE # 7712 (Residential) 18' X 10' = 180 SQ FT (180) (0.313) /27 = 2.1 CU YD

HOUSE # 7755 (Residential) 20' X 10' = 200 SQ FT (200) (0.313) /27 = 2.3 CU YD

HOUSE # 7756 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YD

HOUSE # 7777 (Residential) 16' X 10' = 160 SQ FT (160) (0.313) /27 = 1.9 CU YDTOTAL ITEM 301 = 42.1 CU YD

ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS)

HOUSE # 5563 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD

HOUSE # 5701 (Residential) 22' X 10' = 220 SQ FT (220) (0.125) /27 = 1.0 CU YD

BUSINESS * 6100 (Commercial) 60' X 10' = 600 SQ FT (600) (0.104) /27 = 2.3 CU YD

HOUSE # 6152 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD

HOUSE # 6216 (Residential) 19' X 10' = 190 SQ FT (190) (0.125) /27 = 0.9 CU YD

HOUSE # 6239 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU. YD. Note: There are two drives at this residence. The Southern Drive at this location is to be left open. The Full Depth Pavement Replacement is to start just past the Southern drive and include the Northern drive at this location, start Full Depth at SLM 9.06.

HOUSE # 7225 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD

HOUSE # 7296 (Residential) 17' X 10' = 170 SQ FT (170) (0.125) /27 = 0.8 CU YD

HOUSE # 7559 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD

BUSINESS * 7697 (Commercial) 60' X 10' = 600 SQ FT (600) (0.104) /27 = 2.3 CU YD

HOUSE # 7712 (Residential) 18' X 10' = 180 SQ FT (180) (0.125) /27 = 0.8 CU YD

HOUSE # 7755 (Residential) 20' X 10' = 200 SQ FT (200) (0.125) /27 = 0.9 CU YD

HOUSE # 7756 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD

HOUSE # 7777 (Residential) 16' X 10' = 160 SQ FT (160) (0.125) /27 = 0.7 CU YD TOTAL ITEM 448 = 13.9 CU YD

ITEM 202 - PAVEMENT REMOVED

DRIVEWAYS

HOUSE # 7161 (Residential) 18' X 10' = 180 SQ FT (180) / 9 = 20 SO YD

HOUSE # 7251 (Residential) 17' X 10' = 170 SQ FT (170) / 9 = 18.9 SQ YD

HOUSE # 7455 (Residential) 19' X 10' = 190 SO FT (190) / 9 = 21.1 SQ YD

HOUSE * 7823 (Residential) 20' X 10' = 200 SQ FT (200) / 9 = 22.2 SQ YD

TOTAL 1TEM 202 = 82.2 SO YD

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT

DRIVEWAYS

HOUSE # 7161 (Residential) 18' X 10' = 180 SQ FT (180) / 9 = 20 SQ YD

HOUSE # 7251 (Residential) 17' X 10' = 170 SQ FT (170) / 9 = 18.9 SO YD

HOUSE # 7455 (Residential) 19' X 10' = 190 S0 FT (190) / 9 = 21.1 SO YD

HOUSE # 7823 (Residential) 20' X 10' = 200 S0 FT (200) / 9 = 22.2 SQ YD

TOTAL ITEM 452 = 82.2 SO YD

NOTE:

THE QUANTITIES FOR DRIVEWAYS ARE FOR THE FULL DEPTH PAVEMENT REPLACEMENT AREA'S ON SR 94. IF THESE DRIVES HAVE TO BE REPLACED. THEY WILL BE DONE AS PER OUR DRIVE DETAILS SHEET * 33. ALL JOINTS ARE TO BE SAW CUT. ACCESS TO THESE DRIVES FOR

HOMEOWNERS IS TO BE MAINTAINED AT ALL TIMES. CONTACT EACH HOMEOWNER TO MAKE THEM AWARE OF THE WORK SCHEDULE, AS PER THE MOT NOTES.

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ITEM SPECIAL. MAILBOX SUPPORT SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF EXISTING NON-STANDARD MAILBOX SUPPORTS AND FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED HARDWARE IN ACCORDANCE WITH THE DETAILS SHOWN, AND ATTACHING AN OWNER SUPPLIED MAILBOX, AT LOCATIONS DETERMINED BY THE ENGINEER.

IN ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING. AS JUDGED AND DIRECTED BY THE ENGINEER.

THE BOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS AND WASHERS) AS NECESSARY TO ACCOMODATE
THE COMPLETE INSTALLATION. SUPPORT HARDWARE SHALL ACCOMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO MAILBOXES MAY BE MOUNTED ON A SINGLE POST, [HARDWARE SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.]

WOOD POSTS SHALL BE NOMINAL 4 IN. x 4 IN. (S4S) OR 4/2IN. DIAMETER ROUND, AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 IN. I.D., AND CONFORM TO AASHTO M 181.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH THE LOCAL POST MASTER AND NOTIFYING THE PROPERTY OWNERS PRIOR TO WORK.

GROUP MAILBOX SUPPORTS SHALL BE PLACED ON 3 FT. CENTERS AND THE TURNOUT LENGTHENED TO ACCOMODATE THE GROUPING.

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

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE.

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, SINGLE PART A - S.R. 18 1.00 SLM - 1 EACH PART B - S.R. 94 = I EACH

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, DOUBLE PART A - S.R. 18 6.72 SLM = 3 EACH

MAILBOXES

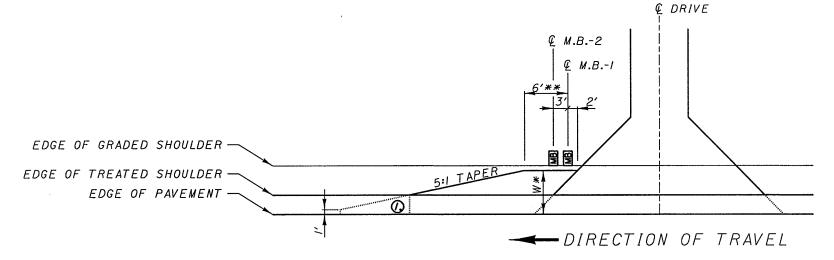
THE MAILBOX APPROACHES SHALL BE PAVED WITH 0.75 IN. OF ITEM 442 INTERMEDIATE COURSE ON PART A AND 1.75" ON PART B. USE 1.5 IN. ON PARTS A & B OF ITEM 442 SURFACE COURSE. THEY SHALL CONFORM AS MUCH AS PRACTICAL TO STANDARD DRAWING BP-4.1 OR AS DIRECTED BY THE ENGINEER.

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

ITEM 209 - GRADING MAILBOX APPROACHES: PART A - S.R. 18 = 127 EACH PART B - S.R. 94 = 5 EACH

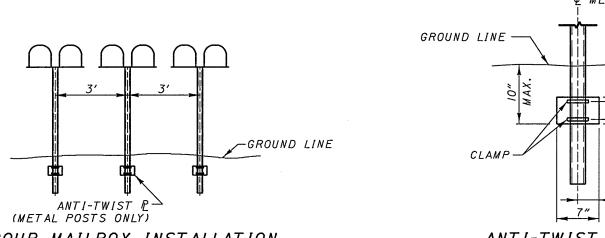
ITEM 617 - COMPACTED AGGREGATE, TYPE A, AS PER PLAN PART A - S.R. 18 = 127 CU YD PART B - S.R. 94 = 5 CU YD

FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1

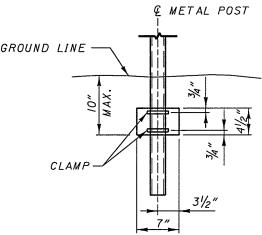


(1) END MAILBOX TURNOUT AT EDGE OF TREATED SHOULDER OR I' WHICH EVER IS GREATER.

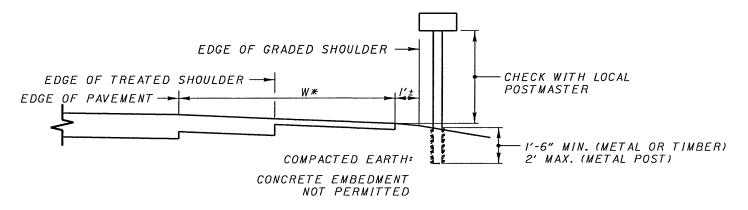
- * WHERE MAILBOX POSTS ARE BEHIND GUARDRAIL, TURNOUT WIDTH SHALL EXTEND TO FACE OF GUARDRAIL. WHERE NO GUARDRAIL IS REQUIRED, TURNOUT WIDTH SHALL BE 6 FT. MINIMUM, EXCEPT WHERE FIELD CONDITIONS WILL NOT PERMIT.
- ** 6' FOR SINGLE MAILBOX SUPPORT, ADD 3 FT. FOR EACH ADDITIONAL MAILBOX



GROUP MAILBOX INSTALLATION



ANTI-TWIST PLATE



CROSS SECTION / ELEVATION VIEW



GENERAL NOTES

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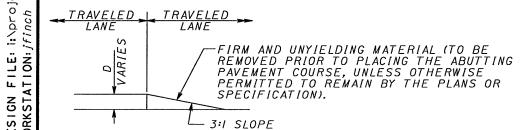
DATE

- I.IT IS INTENDED THAT THIS DRAWING BE USED FOR TREATMENT OF DROP-OFFS THAT DEVELOP DURING CONSTRUCTION OPERATONS, AND THAT ARE NOT OTHERWISE PROVIDED FOR IN THE AND IHAI ARE NOT OTHERWISE PROVIDED FOR IN THE CONSTRUCTION PLANS. THE SUGGESTED TREATMENTS ARE INTENDED FOR HIGH VOLUME PROJECTS THAT WILL LAST AT LEAST SEVEN DAYS AND HAVE AN ACTIVE WORK ZONE I MILE (1.6 KM) OR LESS IN LENGTH. FOR GUIDANCE ON THE USE OF THIS SHEET, SEE L&D MANUAL VOLUME ONE, SECTION 500. WHERE THE PLANS DO NOT PROVIDE SPECIFIC ITEMS FOR LABOR, EQUIPMENT, OR MATERIALS TO IMPLEMENT THE DROP-OFF TREATMENTS SPECIFIED HERON, THEY SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM BID FOR ITEM 614-MAINTAINING TRAFFIC BID FOR ITEM 614-MAINTAINING TRAFFIC.
- 2. WHILE THE NEED FOR CERTAIN ADVISORY SIGNING IS NOTED HERON, IT IS NOT INTENDED THAT THIS BE INDICATIVE OF ALL SIGNING THAT MAY BE REQUIRED TO ADVISE OR WARN MOTORISTS. ALL REQUIREMENTS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) MUST BE FULFILLED.
- 3. IN URBAN OR OTHERWISE HEAVILY DEVELOPED AREAS WHERE PEDESTRIANS AND/OR BICYCLISTS MAY BE PRESENT IN SIGNIFICANT NUMBERS, ADDITIONAL SIGNING AND PROTECTIVE MEASURES OTHER THAN THOSE SHOWN HEREON MAY BE REQUIRED.
- 4. THE DROP-OFF TREATMENT SELECTED FOR USE AT ANY GIVEN LOCATION SHALL BE AS APPROPRIATE FOR THE PREVAILING CONDITIONS AT THE SITE.
- 5. WHERE CONCRETE BARRIER IS SPECIFIED, IT SHALL BE IN ACCORDANCE WITH SCD RM-4.2 AND ITEM 622.
- 6. WHEN DRUMS ARE SPECIFIED FOR A DROP-OFF CONDITION, A MINIMUM NUMBER OF FOUR DRUMS SHALL BE USED. SPACING SHALL BE AS INDICATED IN THE PLANS OR AS SPECIFIED IN THE OMUTCO.
- 7. WHEN OW-151 (LOW SHOULDER) SIGNS OR OW-155 (SHOULDER WHEN OW-151 (LOW SHOULDER) SIGNS OR OW-155 (SHOULDER)
 DROP-OFF) SIGNS OR OW-171 (UNEVEN LANES) SIGNS ARE REQUIRED,
 THEY SHALL BE PLACED 750' (250 M) IN ADVANCE OF THE
 CONDITION, ON ALL INTERSECTING ENTRANCE RAMPS WITHIN THE
 LIMITS OF THE CONDITION AND IMMEDIATELY BEYOND ALL
 INTERSECTING ROADWAYS WITHIN THE LIMITS OF THE CONDITION.
 WHEN THE DROP-OFF CONDITION EXTENDS MORE THAN 0.5 MILE (800M), ADDITIONAL SIGNS SHOULD BE ERECTED AT INTERVALS OF 1.0 MILE (1600 M) OR LESS.
- 8. FOR LOCATIONS, SUCH AS AT RAMPS, LANE SHIFTS, LANE CLOSURES, ETC., WHERE TRAFFIC IS REQUIRED TO NEGOTIATE A DIFFERENCE IN ELEVATION BETWEEN PAVEMENTS, A 3:1 SLOPE TREATMENT SIMILAR TO THE OPTIONAL WEDGE TREATMENT SHALL BE PROVIDED.
- 9. PORTABLE CONCRETE BARRIER SHALL BE PLACED ON THE SAME LEVEL AS THE TRAFFIC SURFACE AND SHALL NOT ENCROACH ON LANE WIDTH(S) DESIGNATED AS THE MINIMUM REQUIRED FOR TRAFFIC USE. WHERE DRUMS ARE USED, AND THEIR PRESENCE WOULD REDUCE TRAVELED LANE WIDTHS TO LESS THAN 10' (3.0M), DRUMS MAY BE PLACED ON THE OPPOSITE LEVEL FROM THAT OF TRAFFIC PROVIDED THE DROP-OFF DEPTH DOES NOT EXCEED 5" (125) AND APPROVAL IS GRANTED BY THE PROJECT ENGINEER.
- IO. PAVEMENT REPAIRS (OR SIMILAR WORK): A. LENGTHS GREATER THAN 60' (18 M) OR LESS-UTILIZE APPROPRIATE TREATMENT FROM CONDITION I.
 - LENGTHS OF 60' (18 M) OR LESS REPAIRS SHALL BE EFFECTED IN ACCORDANCE WITH CMS 255.08. DRUMS MAY BE USED AS A SEPARATOR ADJACENT TO THE TRAVELED LANE.

OPTIONAL WEDGE TREATMENT (MILLING OR RESURFACING)

. THIS TREATMENT MAY BE USED WHEN PERMITTED FOR CONDTION I ONIY.

2. OW-171 SIGN REQUIRED

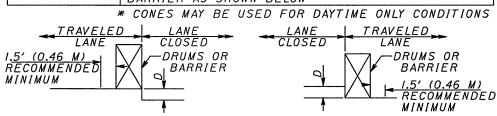


CONDITION I

DROP-OFFS BETWEEN TRAVELED LANES

I. THESE TREATMENTS ARE TO USED FOR RESURFACING, PAVEMENT PLANING, EXCAVATION, ETC. BETWEEN OR WITHIN TRAVELED LANES.

D	TREATMENT
≤1½" (≤40)	ERECT OW-171 SIGN
11/2"-3" (40-75)	I. LANE CLOSURE UTILIZING DRUMS* AS SHOWN BELOW OR 2. OPTIONAL WEDGE TREATMENT
>3"-5" (>75-125)	LANE CLOSURE UTILIZING DRUMS AS SHOWN BELOW
>5" (>125)	LANE CLOSURE UTILIZING PORTABLE CONCRETE BARRIER AS SHOWN BELOW



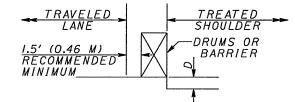
CONDITION II DROP-OFFS WITHIN GRADED SHOULDER AREA

THE TREATMENTS INDICATED BELOW ARE FOR USE IN CONJUNCTION WITH RESURFACING, PLANING, OR EXCAVATIONS WITHIN THE GRADED SHOULDER AREA.

THE GRADED SHOULDER AREA IS THAT FLAT OR GRADUALLY SLOPING AREA BETWEEN THE EDGE OF A NORMALLY TRAVELED LANE AND THE MORE STEEPLY SLOPING DITCH FORESLOPE OR EMBANKMENT SLOPE. ITS SURFACE MAY BE SOIL OR TURF, AND/OR IT MAY BE INCLUSIVE OF A "TREATED" AREA (IMPROVED WITH MAXIMUM WIDTH SHALL BE CONSIDERED TO BE 12' (3.6 M).

D	TREATMENT
≤1½" (≤40)	ERECT OW-155 SIGNS
>1½"-5" (>40-125)	I. IF MINIMUM LANE WIDTH* REQUIREMENTS CAN BE MET, MAINTAIN LANES UTILZING DRUMS AS SHOWN BELOW OR 2. IF MINIMUM LANE WIDTH* REQUIREMENTS CANNOT BE MET, CLOSE ADJACENT LANE UTILIZING DRUMS OR 3. OPTIONAL SHOULDER TREATMENT
>5"-12" (>125-305) DAYLIGHT ONLY	IF MINIMUM LANE WIDTH* REQUIREMENTS CAN BE MET, MAINTAIN LANES UTILIZING DRUMS AS SHOWN BELOW.
>5"-24" (>125-610)	I. IF MINIMUM LANE WIDTH* REQUIREMENTS CAN BE MET, MAINTAIN LANES UTILIZING PORTABLE CONCRETE BARRIER AS SHOWN BELOW. OR 2. IF MINIMUM LANE WIDTH* REQUIREMENTS CANNOT BE MET, CLOSE ADJACENT LANE UTILIZING DRUMS.
>5"-24" (>125-610)	LANE CLOSURE UTILIZING PORTABLE CONCRETE BARRIER AS SHOWN BELOW

*MINIMUM LANE WIDTHS SHALL BE 10' (3.0 M) UNLESS OTHERWISE SPECIFIED IN THE PLANS.



OPTIONAL SHOULDER TREATMENT

I. THIS TREATMENT MAY NOT BE USED WITHIN A BITUMUNOS SHOULDER WHERE A HOT LONGITUDINAL JOINT PER CMS 401.15 IS REQUIRED.

2. OW-151 SIGNS REQUIRED. FIRM AND UNYIELDING MATERIAL SLOPE 3:1 OR FLATTER 9

CONDITION III

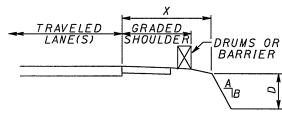
DROP-OFFS BEYOND GRADED SHOULDER OR BACK OF CURB

I. SEE NOTE 2 UNDER CONDTION II. 2. USE CHART A OR B BELOW, AS APPLICABLE.

CHART A

USE FOR: I. UNCURBED FACILITIES. 2. CURBED FACILITIES, WHERE:

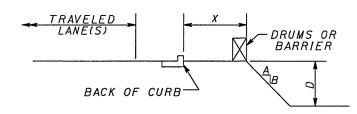
A. CURBS ARE LESS THAN 6" (150) IN HEIGHT. B. CURBS ARE 6" (150) OR GREATER IN HEIGHT AND THE LEGAL SPEED IS GREATER THAN 40 MPH



X	0	A/B	Treatment	Required
	D	A/B	Day	Night
0-4' (0-1.2 M)	ANY	ANY	(A)	(A)
4'-30' (1.2 M-9.1 M)	ANY	3:1 OR FLATTER	NONE	NONE
4'-12' (1.2 M-3.6 M)	≤3″ (≤75)	STEEPER THAN 3:1	NONE	NONE
4'-12' (1.2 M-3.6 M)	>3"- <u>⟨</u> 12" (>75-⟨305)	STEEPER THAN 3:1	DRUMS	DRUMS
4'-12' (1.2 M-3.6 M)	>12" (>305)	STEEPER THAN 3:1	DRUMS	BARRIER
>12'-20' (>3,6 M-6,1 M)	>12" (>305)	STEEPER THAN 3:1	NONE	NONE
>12'-20' (>3.6 M-6,1 M)	>12"-⊊24" (>305-⊊610)	STEEPER THAN 3:1	DRUMS	DRUMS
>12'-20' (>3,6 M-6,1 M)	>24" (>610)	STEEPER THAN 3:1	DRUMS	BARRIER
>20'-30' (>6.1 M-9.1 M)	(24" ((610)	STEEPER THAN 3:1	NONE	NONE
>20'-30' (>6.1 M-9.1 M)	>24" (>610)	STEEPER THAN 3:1	DRUMS	BARRIER
>30' (>9.1 M)	ANY	ANY	NONE	NONE
(A) USE	TREATMENT S	PECIFIED UNDER	CONDITIO	N 11

CHART B

USE FOR: CURBED FACILITIES, WHERE THE CURB IS 6" (150) OR GREATER IN HEIGHT AND THE LEGAL SPEED IS 40 MPH (70 KM/H) OR LESS.



V	D	A/B	TREATMENT	REQUIRED
^	υ	A7 B	DAY	NIGHT
0-10' (0-3.0 M)	<12" (<305)	ANY	NONE	DRUMS
0-10' (0-3.0 M)	>12" (>305)	ANY	DRUMS	DRUMS
>10' (>3.0 M)	ANY	ANY	NONE	NONE

NOTE: ALL METRIC DIMENSIONS (IN BRACKETS ()) ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



CONNECTION BETWEEN EXISTING AND PROPOSED

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. IM. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE GUARDRAIL, INSTALL EMBANKMENT, GRADE AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT
MATERIAL IS ON SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

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.

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.

ITEM 201 - CLEARING AND GRUBBING

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS AND AT LOCATIONS DIRECTED BY THE ENGINEER. THIS WORK SHALL CONSIST OF CLEARING ALL TREES AND STUMPS UNDER 12" IN SIZE 10' FROM THE FACE OF GUARDRAIL , BUT NOT THE VEGETATION. STUMPS CAN BE LEFT FLUSH WITH THE GROUND LEVEL. DISPOSE OF ALL MATERIAL ACCORDING TO 105, 16 AND 105, 17. ALL ABOVE WORK SHALL BE PAID FOR AS ITEM 201, LUMP, CLEARING AND GRUBBING.

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

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS AND AT LOCATIONS DIRECTED BY THE ENGINEER. PLACE EMBANKMENT TO PROVIDE A SUITABLE AREA TO CONSTRUCT GUARDRAIL AND THE STRUCTURAL INTEGRITY OF THE ROADWAY SHOULDER.

SCALP AREAS WHERE EMBANKMENT MATERIALS ARE TO BE PLACED. THE REQUIREMENTS FOR BENCHING MAY BE WAIVED. LIMIT THE DEPTH OF EMBANKMENT LAYERS TO EIGHT (8) INCHES IN THICKNESS. USE A METHOD OF COMPACTION AND EQUIPMENT SUFFICIENT TO PROVIDE 80% OF REQUIRED COMPACTION AS PER CMS TABLE 203.07-1.

AFTER THE EMBANKMENT HAS BEEN PLACED, THE AREAS SHALL BE FERTILIZED, SEEDED, MULCHED, AND WATERED AS PER ITEM 659 AND INCLUDED COST IN THIS ITEM FOR PAYMENT.

THE DEPARTMENT WILL MEASURE EMBANKMENT MATERIAL BY THE NUMBER OF CUBIC YARDS MEASURED BY LOOSE VOLUME IN THE CARRIER AT THE WORK SITE, IN LIEU OF THE REQUIREMENTS OF 203.09. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR THE ABOVE WORK AS ITEM 203, CU. YD., EMBANKMENT, AS PER PLAN.

ITEM 209 - RESHAPING UNDER GUARDRAIL:

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

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

THE AREA IN FRONT OF THE GUARDRAIL SHALL BE GRADED AND RESHAPED TO PROVIDE AN AREA THAT HAS A SLOPE OF 10: I MAX.

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

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

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

WHERE DESIGNATED ON THE PLAN, THE EXISTING TYPE 5 GUARDRAIL SHALL BE RAISED OR LOWERED ON THE EXISTING WOOD POSTS AS PER STANDARD DRAWING GR-2. IM SO AS TO OBTAIN THE STANDARD 27.80 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.

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

THE EXISTING TYPE "E" ANCHOR ASSEMBLIES THAT ARE TO REMAIN SHALL BE ADJUSTED AS DESCRIBED ABOVE. THE EXTRUDER SHALL ALSO BE ADJUSTED ON THE FIRST POST TO MATCH THE NEW RAIL HEIGHT. ALL WORK REQUIRED TO ADJUST EXISTING "E" ANCHORS SHALL BE INLUDED IN THIS ITEM FOR PAYMENT.

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

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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' (II. 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	0D0T Approval Date
SS444 SS444M	Slotted Rail Terminal Post Layout and Erection Details SRT-350 (12.5, 8 Post)	7/12/99 Rev. 1 7/12/99	8/27/99
SS425M	Slotted Rail Terminal SRT-350 Post Layout and Erection Details (12.5, 9 Post)	6/21/97 Rev. I	3/6/98

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	4/16/98	7/31/98

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 3/4 INCHES (706mm) FROM THE EDGE OF THE SHOULDER.

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 \times 305 mm H) FOR THE SRT-350 AND 14 IN. WIDE X 20 IN. HIGH (350 mm W \times 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 STREET, 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 & SECTIONS	6/20/97	3/6/98
SS142	ET-2000 PLUS 50'-0" PLAN, ELEVATION & 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 I-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-35D) 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 GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES (IOOmm) 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 (706) FORM THE EDGE OF THE SHOULDER.

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.

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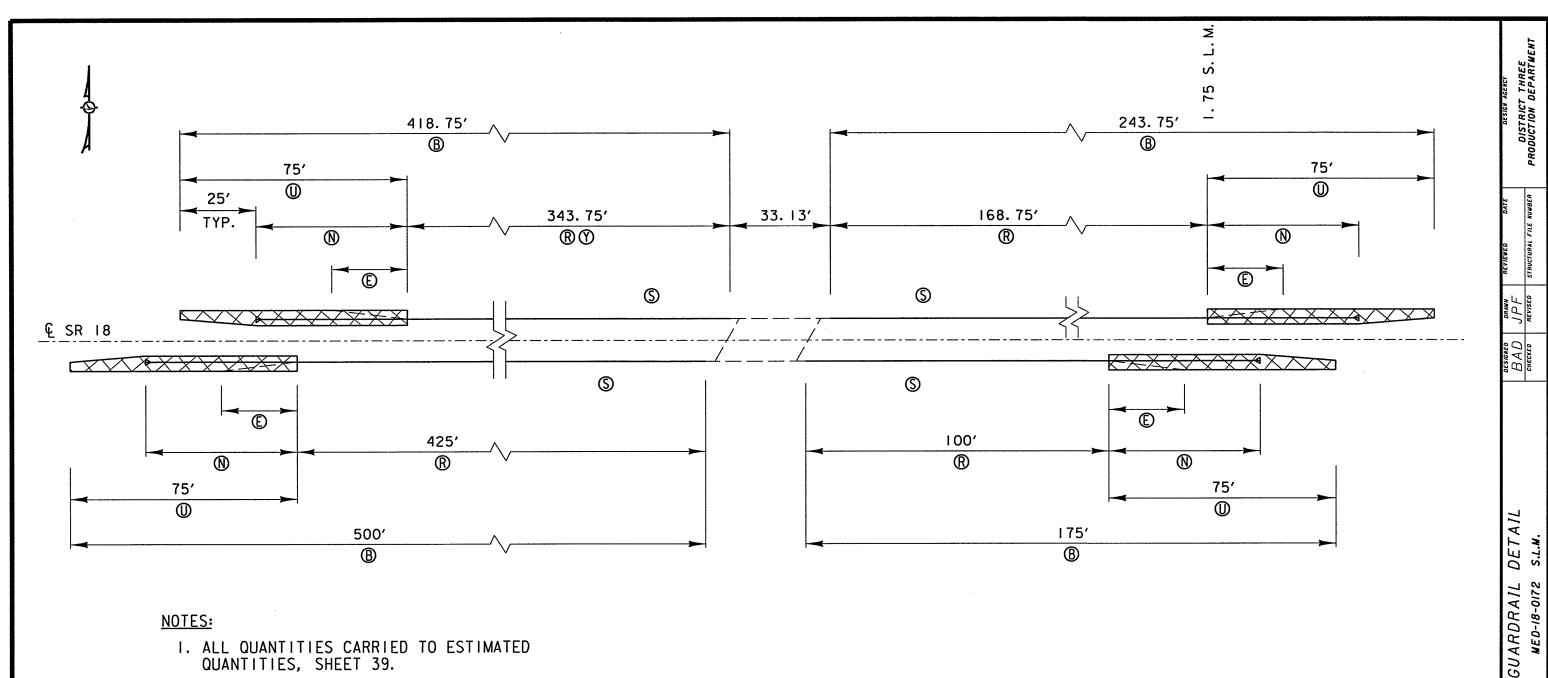
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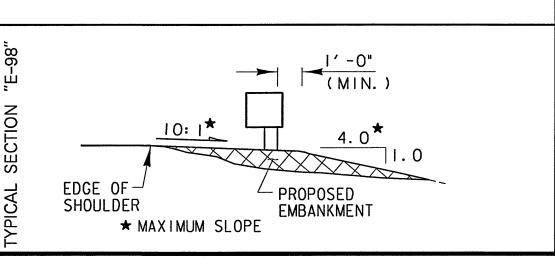
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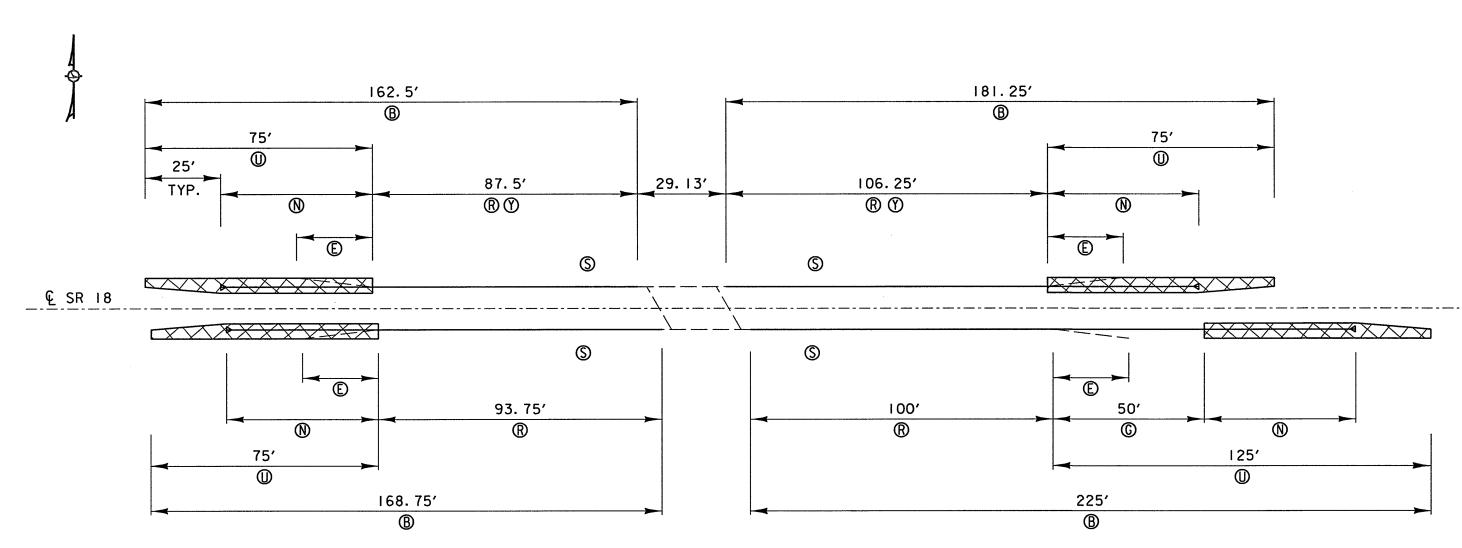


- I. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.
- 2. GRADE EMBANKMENT AS PER TYPICAL SECTION 'E' FOR THE ENTIRE LENGTH OF THE ANCHOR ASSEMBLY, TYPE E AND THE 25 FT. GRADING BEYOND THE GUARDRAIL RUN.

LOCATION	LTCM	DECEDIBLION	I INI I T	QUAN	TITY	TOTAL
LOCATION	ITEM	DESCRIPTION	UNIT	LEFT	RIGHT	QUANTITY
®	201	CLEARING AND GRUBBING	LUMP			LUMP
(E)	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	2	2	4
\boxtimes	203	EMBANKMENT, AS PER PLAN	CU YD	15	15	30
0	209	RESHAPING UNDER GUARDRAIL	FT	150	150	300
Ø	606	GUARDRAIL POST	EACH	6		6
(N)	606	ANCHOR ASSEMBLY, TYPE E-98	EACH	2	2	4
®	606	GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL	FT	512.5	525	1037. 5
<u>S</u>	626	BARRIER REFLECTOR, TYPE A	EACH	8	8	16

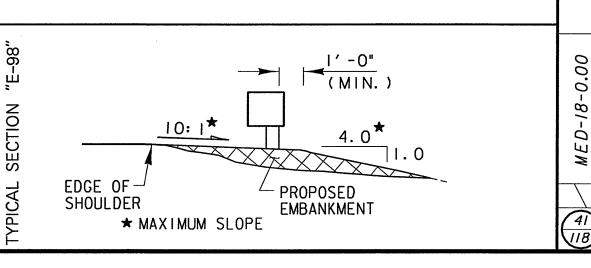


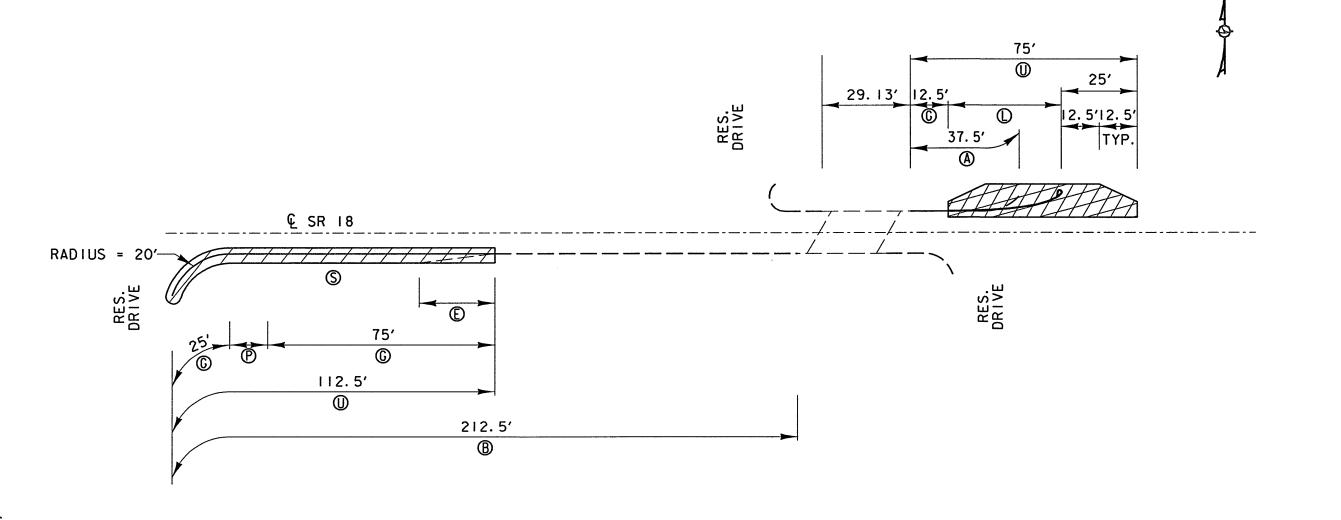
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- I. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.
- 2. GRADE EMBANKMENT AS PER TYPICAL SECTION "E" FOR THE ENTIRE LENGTH OF THE ANCHOR ASSEMBLY, TYPE E AND THE 25 FT. GRADING BEYOND THE GUARDRAIL RUN.

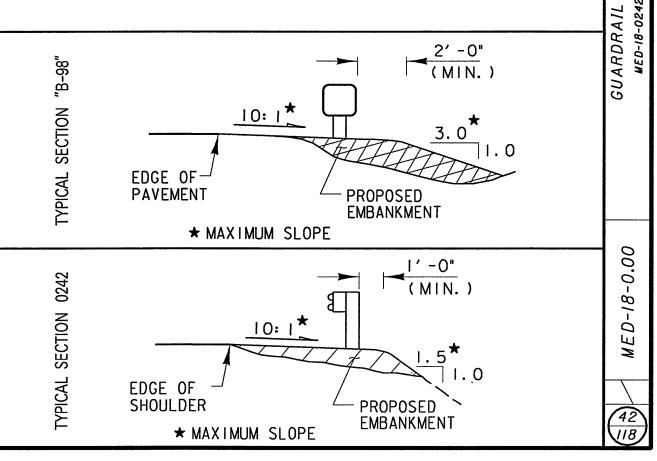
LOCATION	ITEM	DESCRIPTION	UNIT	QUAN	TITY	TOTAL
LUCATION	IIEM	DESCRIPTION	UNII	LEFT	RIGHT	QUANTITY
®	201	CLEARING AND GRUBBING	LUMP			LUMP
(E)	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	2	· 2	4
\boxtimes	203	EMBANKMENT, AS PER PLAN	CU YD	15	15	30
0	209	RESHAPING UNDER GUARDRAIL	FT	150	200	350
©	606	GUARDRAIL, TYPE 5	FT		50	50
Ø	606	GUARDRAIL POST	EACH	6		6
(N)	606	ANCHOR ASSEMBLY, TYPE E-98	EACH	2	2	4
®	606	GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL	FT	193. 75	193. 75	387. 5
S	626	BARRIER REFLECTOR, TYPE A	EACH	4	5	9



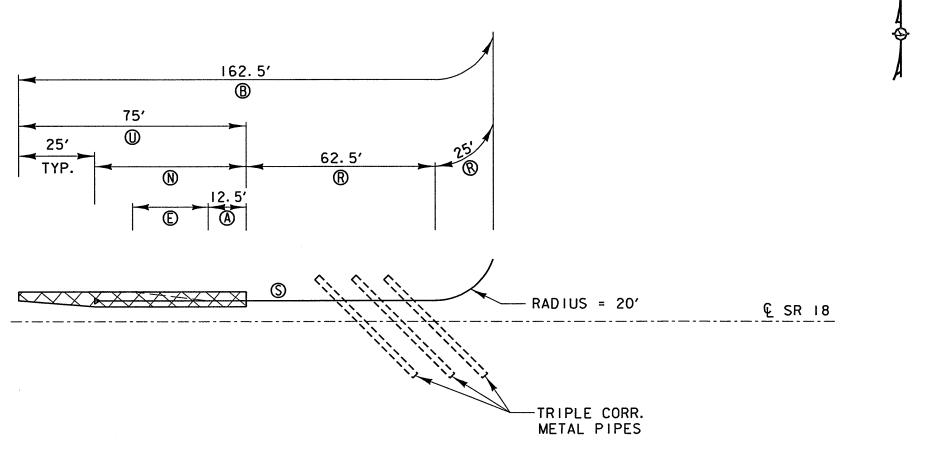


- I. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.
- 2. GRADE EMBANKMENT AS PER TYPICAL SECTION "B" FOR THE ENTIRE LENGTH OF THE ANCHOR ASSEMBLY, TYPE B AND THE 25 FT. GRADING BEYOND THE GUARDRAIL RUN.

LOCATION	ITEM	DESCRIPTION	UNIT	QUAN	TITY	TOTAL
LUCATION	I I EM	DESCRIPTION	UNTI	LEFT	RIGHT	QUANTITY
®	201	CLEARING AND GRUBBING	LUMP			LUMP
A	202	GUARDRAIL REMOVED	FT	37.5		37. 5
(E)	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH		1	I
	203	EMBANKMENT, AS PER PLAN	CU YD	20	30	50
0	209	RESHAPING UNDER GUARDRAIL	FT	75	112.5	187. 5
©	606	GUARDRAIL, TYPE 5	FT	12.5	100	112.5
0	606	ANCHOR ASSEMBLY, TYPE B-98	EACH	1		1
®	606	ANCHOR ASSEMBLY, TYPE T	EACH		ļ	I
S	626	BARRIER REFLECTOR, TYPE A	EACH	2	3	5

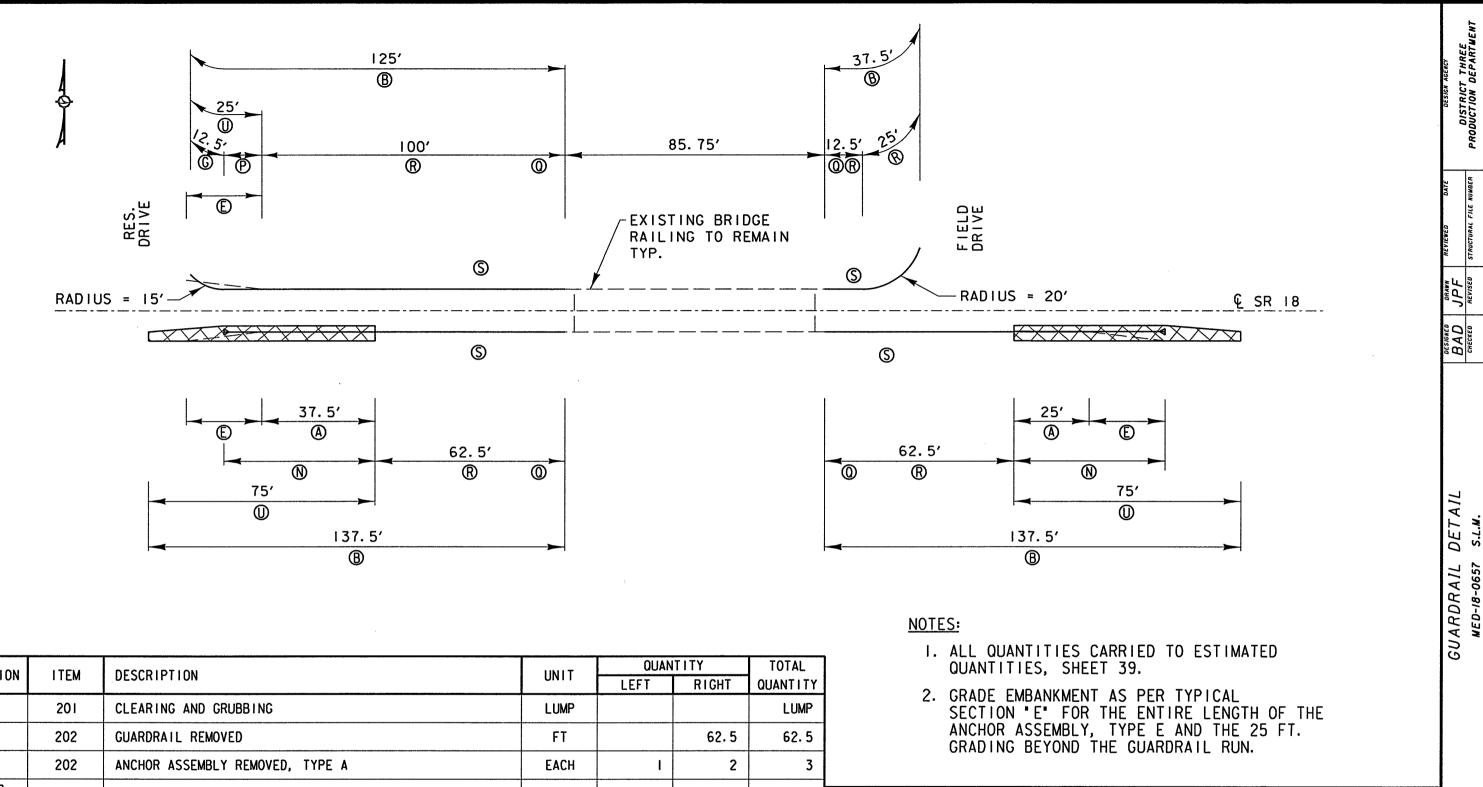


DETAIL

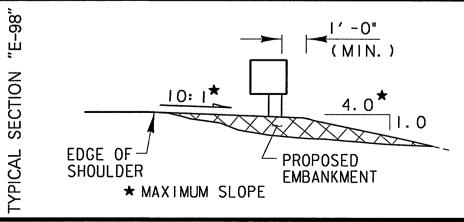


- I. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.
- 2. GRADE EMBANKMENT AS PER TYPICAL SECTION "E" FOR THE ENTIRE LENGTH OF THE ANCHOR ASSEMBLY, TYPE E AND THE 25 FT. GRADING BEYOND THE GUARDRAIL RUN.
- 3. DO NOT DISTURB PINE TREE'S WHEN CLEARING AND GRUBBING AT THIS LOCATION.

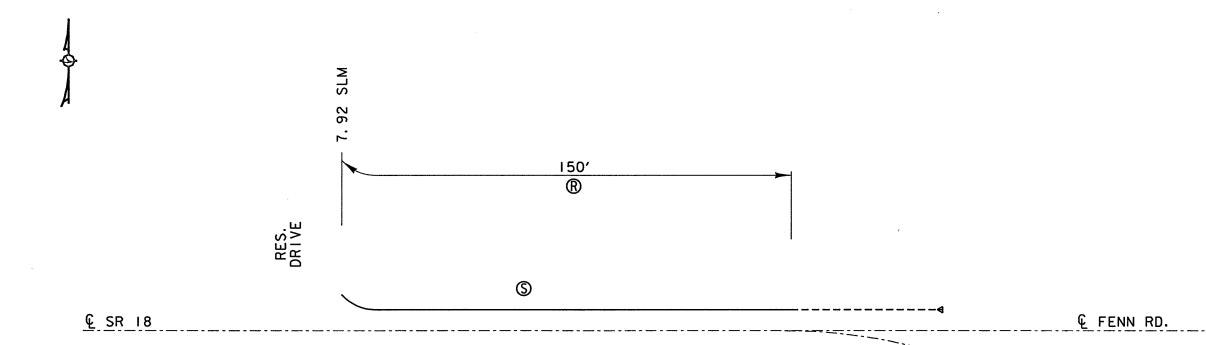
LOCATION	ITEM	DESCRIPTION	UNIT	QUAN		TOTAL	
				LEFT	RIGHT	QUANTITY	
®	201	CLEARING AND GRUBBING	LUMP			LUMP	'n
(A)	202	GUARDRAIL REMOVED	FT	12.5		12.5	\(\frac{1}{0}\)
(Ē)	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	ı		1	Ψ (MIN.)
\boxtimes	203	EMBANKMENT, AS PER PLAN	CU YD	8		8	<u> </u>
0	209	RESHAPING UNDER GUARDRAIL	FT	75		75	1.0
N	606	ANCHOR ASSEMBLY, TYPE E-98	EACH	ı		1	EDGE OF PROPOSED
®	606	GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL	FT	87. 5		87. 5	SHOULDER EMBANKMENT
S	626	BARRIER REFLECTOR, TYPE A	EACH	3		3	★ MAXIMUM SLOPE



LOCATION	ITEM	DESCRIPTION	UNIT	QUAN	TITY	TOTAL
LUCATION	1 I EM	DESCRIPTION	UNTI	LEFT	RIGHT	QUANTITY
®	201	CLEARING AND GRUBBING	LUMP			LUMP
(A)	202	GUARDRAIL REMOVED	FT		62.5	62.5
(E)	202	ANCHOR ASSEMBLY REMOVED, TYPE A	EACH	ı	2	3
\boxtimes	203	EMBANKMENT, AS PER PLAN	CU YD		16	16
0	209	RESHAPING UNDER GUARDRAIL	FT	25	150	175
©	606	GUARDRAIL, TYPE 5	FT	12.5		12.5
N	606	ANCHOR ASSEMBLY, TYPE E-98	EACH		2	2
(P)	606	ANCHOR ASSEMBLY, TYPE T	EACH	1		ı
0	606	BRIDGE TERMINAL ASSEMBLY, TYPE 4	EACH	2	2	4
®	606	GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL	FT	137. 5	125	262. 5
S	626	BARRIER REFLECTOR, TYPE A	EACH	3	6	9



MED-18-0.00



1. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.

LOCATION	ITEM	DESCRIPTION	UNIT	QUAN	TITY	TOTAL	
LOCATION	I I CIVI	DESCRIPTION	וואוט	LEFT	RIGHT	QUANTITY	
®	606	GUARDRAIL, MISC.: ADJUST HEIGHT, EXISTING TYPE 5 GUARDRAIL	FT	150		150	
S	626	BARRIER REFLECTOR, TYPE A	EACH	3		3	

MED-18-0.00



36" CONDUIT, TYPE D

ANCHOR ASSEMBLY, TYPE E-98

ANCHOR ASSEMBLY, TYPE T

BARRIER REFLECTOR, TYPE A

GUARDRAIL, TYPE 5

603

606

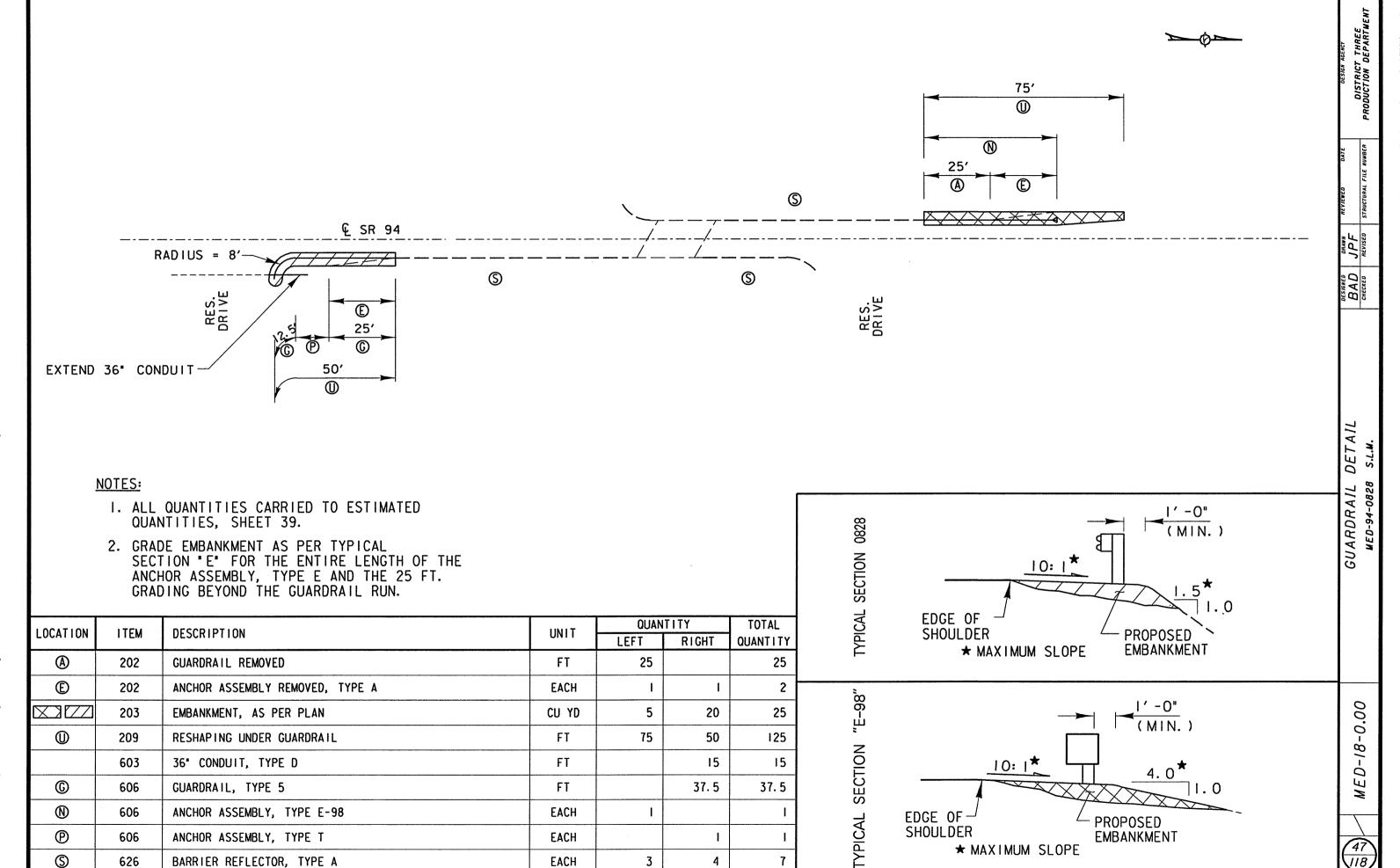
606

606

626

(N)

P



15

37.5

3

15

37.5

10:1*

★ MAXIMUM SLOPE

PROPOSED

EMBANKMENT

EDGE OF

SHOULDER

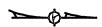
FT

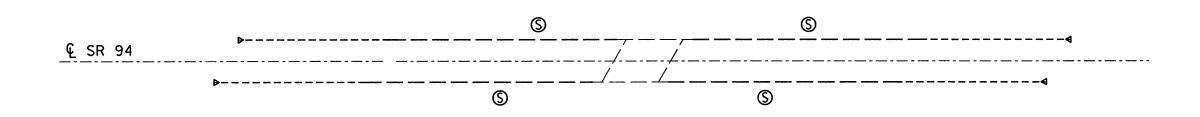
FT

EACH

EACH

EACH





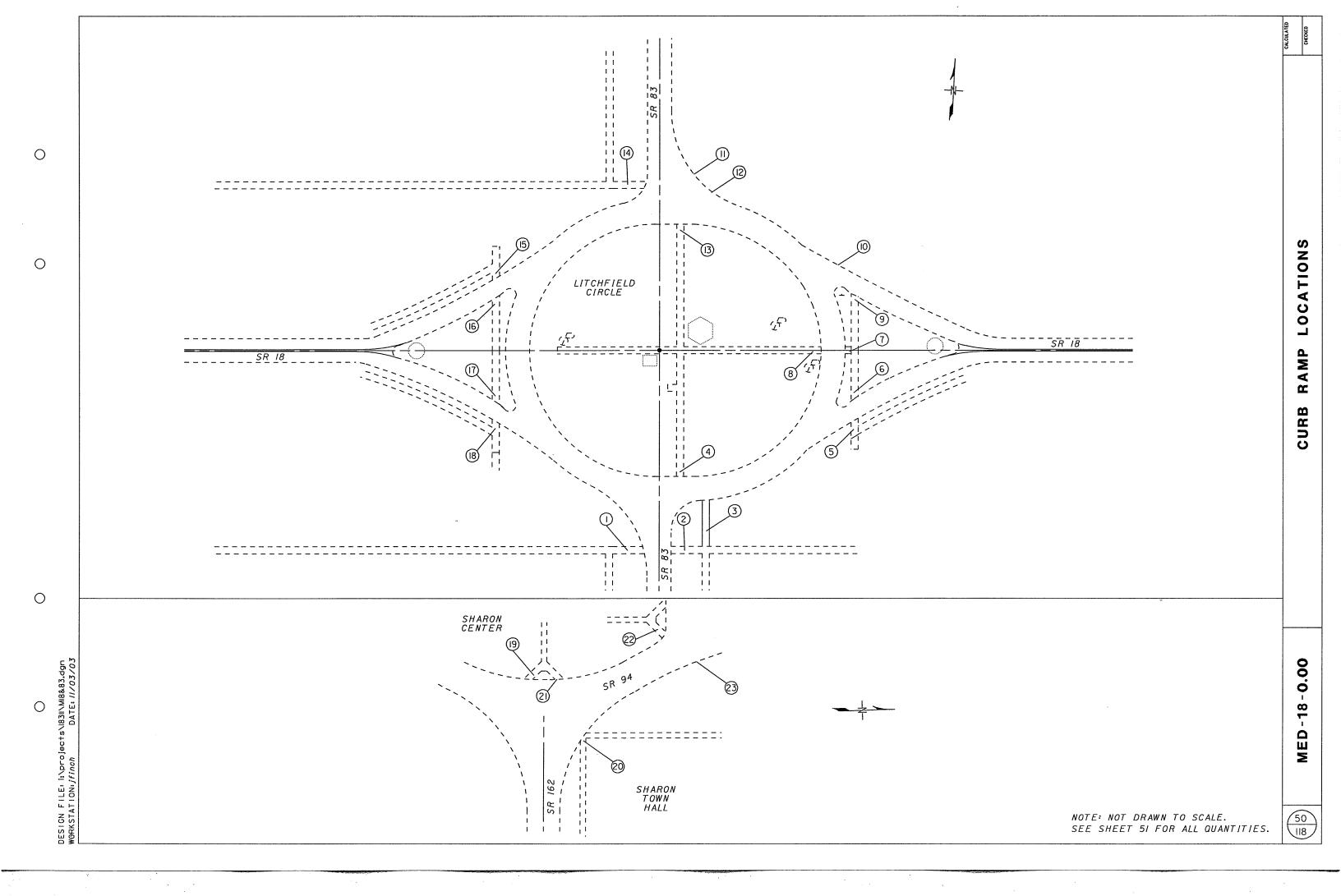
MED-18-0.00

NOTES:

I. ALL QUANTITIES CARRIED TO ESTIMATED QUANTITIES, SHEET 39.

LOCATION ITEM		DESCRIPTION	UNIT	QUAN	TOTAL	
LUCATION TIEM	DESCRIPTION	וואוט	LEFT	RIGHT	QUANTITY	
		2.20.50 255 50702 7.05	5.0 00			12
S	626	BARRIER REFLECTOR, TYPE A	EACH	6	6	12

							7(JAILIA	RY	α L	UNU	G L	INE	IVI A	KKI	NG	5											
·								202			64	2, TYPE							644						SPE	ECIAL	61	4
ART	ROUTE	•	FROM	1			ΤΟ	RAISED PAVEMENT MARKER REMOVED	LANE WIDTH	HIGHWAY BOOM	TOTAL (PAY QUANTITY)	LANE LINE	SOLID LINE EQUIVALENT	TOTAL (PAY QUANTITY)	S CHANNELIZING	STOP LINE	CROSSWALK LINE	TRANSVERSE LINE	PK11	2V.		RIGHT	INATION WORD ON	96 in "ONLY"	MARKING MARKING	SPEED E WARKING	WORK ZONE CENTER LINE, CLASS 11, 642 PAINT	× N
		SLM	W DESCRIPTION		SLI	U DESC	RIPTION	EACI	+ FT	M I	MI	MI	MI	MI	FT	FT	FT		EACH E	ACH	FT	EAC	1 E	ACH E	ACH E	ACH	MI	MI
Α	SR 18	0.00	O LORAIN CO. L	INE	9.10	O MEDI	NA CITY LIMIT	682	12	9.10	18.20		5.57	9.22	75	264	530	155		3				/			27.66	
Α	SR 83	12.79	93 BUTT JOINT @	OLD SCHOOL	.HOUSE 12.8	46 S.R.	18 LITCHFIELD	7	11	0.053	0.106		0.106	0.053		12										(0.159	
																				-				-				
		 																						-		·		
В	SR 94		3 WADSWORTH				END WORK	159		1.92	3.84		2.61	1.96		70	010	118		+							4.13	
В	SR 94	8.10	O RESUME WOR	? <i>K</i>	11.0	END	PARI B	216	//	2.91	5.82		3.22	2.91		64	216			2		-					6.78	
		-																				-	+					
	NOTE:	THE	CONTRACTOR S	CHALL ENGL	DE THAT	ITEM 64	2 FDCF LINE F	DE PRECO	VED THE	OUGHO	UT SHA	NRON CE	NTER	AND LIT	CHEIE	ID CIE) CLE			+				+				
	NOT L.	7772	- CONTRACTOR S		TE THAT	TI LW 04	Z LUGL LINE L	JE T NET ON		0001101	7 3/1/4	1. 1		AND LIT	T TE	LD CIN	, c						+ +	++				
		1																								1		
		-					· · · · · · · · · · · · · · · · · · ·																	+ +				
			Si	EE PAVEMEN UPPLIED AT	T MARKING THE PRECO	DET AIL ONST RUCT	TO SHEET ION MEETING	DTAL 1064		ΡΔΙ	27.97	FNT	- M	14.14 A R K	75 FRS	410	746	273		5	1			1		3	38.73	
			LOCATION	EE PAVEMEN UPPLIED AT	T MARKING THE PRECO	T	SHEET ION MEETING 621	RAIS	ED		VEM		M				746	273		5	1		DI		DESCRIP	TION		
			LOCATION		T MARKING THE PRECO	DETAIL TOWSTRUCT	621 RPM REFLECTOR.	RAIS PRISMATI	ED)-REFL	VEM		- M					273		5	,		DI		MULTILA TYPICAL	TION NE UNDI SPACIN	IVIDED	
PART	T COUNT	VTY				AIL	621 RPM REFLECTOR, INSTALLATION	RAIS PRISMATI	ED C RETRO	TWO -	VEM ECTOR - WAY	TYPES								5	,		DI	2	MULTILA TYPICAL TAPERED	TION NE UNDI SPACIN O ACCEL	IVIDED NG LANE	
PART	T COUNT		LOCATION	SLM S	ECTION	ETAIL	621 RPM REFLECTOR, INSTALLATION	RAIS PRISMATI	ED C RETRO	TWO -	VEM ECTOR - WAY	TYPES	,		ERS	3	RE	MARKS		5	,		DI	2 3 4	MULTILA TYPICAL TAPERED DECELER PARALLE	TION NE UNDI SPACIN D ACCEL RATION L	IVIDED NG LANE LANE	
PART A		INA	LOCATION ROUTE	SLM S FROM	ECTION TO	DETAIL	621 RPM REFLECTOR, INSTALLATION ONLY EACH	RAIS PRISMATI	ED C RETRO	TWO -	VEM ECTOR - WAY	TYPES	CON	ARK	ERS S ROUT	S TRE	RE	MARKS		5	1		DI	2 3 4	MULTILA TYPICAL TAPERED DECELER PARALLE	TION NE UNDI SPACIN D ACCEL RATION L	IVIDED NG LANE LANE	
PART A A A	MEDII	INA INA	LOCATION ROUTE SR 18	SLM S FROM	TO 2.41	AP DETAIL	621 RPM REFLECTOR, INSTALLATION ONLY EACH	RAIS PRISMATI ONE - WAY WHITE	SED C RETRO YELLOW YELLOW 172	TWO -	VEM ECTOR - WAY	TYPES	CON	ARK	S ROUT	E TRE	RE EATMEN R 83	MARKS		5	,		DI	1 2 3 4 5 6	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVIG	IVIDED NG LANE LANE LANE	
PART A A A	MEDII MEDII	INA INA	LOCATION ROUTE SR 18 SR 18	SLM S FROM 0.00 2.41	TO 2.41 2.65	GAP 6	621 RPM REFLECTOR, INSTALLATION ONLY EACH 172 27	RAIS PRISMATI ONE - WAY WHITE	SED C RETRO YELLOW YELLOW 172 11	TWO -	VEM ECTOR - WAY	TYPES	CON' STO	ARK	S ROUT ROACHE ROACHE	FE TRE S @ SI S @ SI	RE EATMEN R 83 R 83	T T		5	,		DI	1 2 3 4 5 6	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVI SWAY PPROACH APPR. W.	IVIDED NG LANE LANE LANE	
PART A A A A	MEDII MEDII	INA INA INA	LOCATION ROUTE SR 18 SR 18 SR 18	SLM S FROM 0.00 2.41 2.65	ECTION TO 2.41 2.65 2.89	GAP 6 6	621 RPM REFLECTOR, INSTALLATION ONLY EACH 172 27	RAIS PRISMATI ONE - WAY WHITE	YELLOW YELLOW 172 11	TWO -	VEM ECTOR - WAY	TYPES	CON' STO	ARK TINUOUS P APPR	S ROUT ROACHE S ROUT	S @ SI S @ SI E TRE	RE EATMEN R 83 R 83 EATMEN	T T		5	,		DI	1 2 3 4 5 6 7 8	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII SWAY PROACH APPR. W. NE H APPRO	IVIDED NG LANE LANE LANE DED/	
PAR7 A A A A A	MEDII MEDII MEDII	INA INA INA INA	LOCATION ROUTE SR 18 SR 18 SR 18 SR 18	SLM S FROM 0.00 2.41 2.65 2.89	TO 2.41 2.65 2.89 7.58	9AP 6 6 6 GAP	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 328	RAIS PRISMATI ONE - WAY WHITE 16 16	YELLOW YELLOW 172	TWO -	VEM ECTOR - WAY	TYPES	CON STO.	ARK TINUOUS P APPR TINUOUS	S ROUT ROACHE ROACHE S ROUT ROACHE	S @ SI S @ SI S @ SI E TRE S @ SI	REATMEN R 83 R 83 EATMEN R 57	T T		5	,		DI	1 2 3 4 5 6 7 8 9	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A TURN LA	TION NE UNDI SPACIN D ACCEL RATION L L ACEL NE DIVII SWAY PROACH APPR. W. H APPRO	IVIDED NG LANE LANE LANE DED/	
PART A A A A A	MEDII MEDII MEDII MEDII	INA INA INA INA INA INA	LOCATION ROUTE SR 18 SR 18 SR 18 SR 18 SR 18 SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58	2.41 2.65 2.89 7.58 7.78	GAP 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 27	RAIS PRISMATI ONE - WAY WHITE 16 16	SED C RETRO YELLOW YELLOW 172 11 11 328 11	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. CON' STO. STO. STO. STO.	TINUOUS P APPR	S ROUT ROACHE S ROUT ROACHE ROACHE	S @ SI S @ SI S @ SI S @ SI S @ SI	REATMEN R 83 R 83 EATMEN R 57 R 57	TMARKS		5			DI	1 2 3 4 5 6 7 8 9 10	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A TURN LA 2 LANE A 2 LANE	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVIE PPROACH APPR. W. NE H APPRO APPR. W. NE TRANSIT	IVIDED NG LANE LANE LANE DED OACH TO	
PART A A A A A	MEDII MEDII MEDII MEDII MEDII	INA INA INA INA INA INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78	TO 2.41 2.65 2.89 7.58 7.78 7.98 9.10	GAP 6 6 6 6 6 6	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 27 27	RAIS PRISMATI ONE - WAY WHITE 16 16	YELLOW YELLOW YELLOW 172 11 11 328 11	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. CON' STO. STO. STO. STO.	TINUOUS P APPR TINUOUS P APPR	S ROUT ROACHE S ROUT ROACHE ROACHE	S @ SI S @ SI S @ SI S @ SI S @ SI	REATMEN R 83 R 83 EATMEN R 57 R 57	TMARKS		5			DI	1 2 3 4 5 6 7 8 9 10 11 11 11	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A TURN LA	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII WAY PPROACH APPR. W. NE H APPRO APPR. W. NE TRANSIT UNDIVIDED TRANSIT	IVIDED NG LANE LANE LANE DED/ I I I I I I I I I I I I I I I I I I I	
PAR7 A A A A A B	MEDII MEDII MEDII MEDII MEDII	INA INA INA INA INA INA INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78	TO 2.41 2.65 2.89 7.58 7.78 7.98 9.10	GAP 6 6 6 6 GAP 6 6 6 GAP	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 27 328 27 27 74	RAIS PRISMATI ONE - WAY WHITE 16 16 16	SED C RETRO YELLOW YELLOW 172 11 11 328 11 11 74	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. CON' STO. CON' STO. CON'	TINUOUS P APPR TINUOUS P APPR	S ROUT ROACHE S ROUT ROACHE ROACHE S ROUT	S @ SI S @ SI S @ SI S @ SI S @ SI	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN	T		5			DI	1 2 3 4 5 6 7 8 9 10 11 12	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE A 2 LANE A 4 LANE LA 4 LANE LA	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII ENAPPR. W. APPR. W. APPR. W. APPR. W. DIVIDED TRANSIT UNDIVIDI TRANSIT UNDIVIDI TRANSIT NE NARRO	IVIDED NG LANE LANE LANE DED/ H DACH V/ TON ED TO TION OW BR	IDGE
PART A A A A B B	MEDII MEDII MEDII MEDII MEDII MEDII	INA INA INA INA INA INA INA INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78 7.98	70 2.41 2.65 2.89 7.58 7.78 7.98 9.10 SUB-	GAP 6 6 GAP TOTAL	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 328 27 27 74 682	RAIS PRISMATI ONE - WAY WHITE 16 16 16	SED C RETRO YELLOW YELLOW 172 11 11 328 11 11 74 618	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. CON' STO. CON' CON' CON'	TINUOUS P APPR TINUOUS P APPR TINUOUS	S ROUT ROACHE S ROUT ROACHE S ROUT	FE TRES @ SIS @ SIS @ SIS @ SIS E TRE	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN	TMARKS		5			DI	1 2 3 4 5 6 7 8 9 10 11 12 13	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE I 2 LANE I 4 LANE L 4 LANE L 2 LANE I 7 LANE L	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII WAY PPROACH APPR. W. NE H APPRO APPR. W. NE I VIDED TRANSIT UNDIVIDI TRANSIT E NARRO Y LEFT	IVIDED NG LANE LANE LANE LANE TOP TION OW BR	IDGE
PART A A A A B B B	MEDII MEDII MEDII MEDII MEDII MEDII MEDII	INA INA INA INA INA INA INA INA INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78 7.98	70 2.41 2.65 2.89 7.58 7.78 7.98 9.10 SUB- 5.75	GAP 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	62I RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 328 27 27 4682 47	RAIS PRISMATI ONE - WAY WHITE 16 16 16	YELLOW YELLOW YELLOW 172 III III 328 III III 74 618 47	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. STO. STO. STO. CON' STO. CON' CON'	TINUOUS P APPR TINUOUS P APPR TINUOUS	S ROUT ROACHE S ROUT ROACHE S ROUT ROACHE S ROUT VADSWO	S @ SI S @ SI S @ SI S @ SI FE TRE	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN	TT CORP.		5			DI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE A 2 LANE A 4 LANE L 2 LANE A 4 LANE L 2 LANE A 4 LANE L 4 LANE L 4 LANE L 7 LANE L 4 LANE L 7 LANE L 7 LANE L 8 LANE L 9 LANE L 1 LA	TION NE UNDI SPACIN D ACCEL RATION L L ACEL NE DIVII WAY PROACH APPR. W. NE H APPRO APPR. W. DIVIDED TRANSIT UNDIVIDED TRANSIT WE NARRO Y LEFT IE BRIDG	IVIDED NG LANE LANE LANE LANE OACH V/ TO TION OW BR TURN	IDGE
PART A A A A B B B B	MEDII MEDII MEDII MEDII MEDII MEDII MEDII MEDII	INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78 7.98 5.53 5.75	70 2.41 2.65 2.89 7.58 7.78 7.98 9.10 SUB- 5.75 7.45	GAP 6 6 GAP TOTAL 16 GAP	621 RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 40 682 47 112	RAIS PRISMATI ONE - WAY WHITE 16 16 16	YELLOW YELLOW YELLOW 172 11 11 328 11 11 74 618 47 112	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. STO. STO. CON' CON' CON' CON'	TINUOUS P APPR TINUOUS P APPR TINUOUS VE @ W TINUOUS	S ROUT ROACHE S ROUT ROACHE S ROUT VADSWO	S @ SI S @ SI S @ SI S @ SI E TRE RTH NO TE TRE	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN	TATE ORP.	JUNCTI				DI	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 1	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE [2 LANE I 4 LANE I 7 LANE I 7 LANE I 7 LANE I 1 LA	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII EWAY PROACH APPR. W. NE H APPRO APPR. W. NE DIVIDED TRANSIT UNDIVIDED TRANSIT WE NARRO Y LEFT TAL CUF	IVIDED NG LANE LANE LANE LANE OACH V/ TON FON FOW BR TURN GE RVE RVE AL	IDGE LANE
PART A A A A B B B B	MEDII MEDII MEDII MEDII MEDII MEDII MEDII MEDII	INA	LOCATION ROUTE SR 18	SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78 7.98 5.53 5.75 8.10	70 2.41 2.65 2.89 7.58 7.78 7.98 9.10 SUB- 5.75 7.45 8.37	GAP 6 6 GAP 16 GAP G	621 RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 328 27 27 4 682 47 112	RAIS PRISMATI ONE - WAY WHITE 16 16 16 16	SED C RETRO YELLOW YELLOW 172 11 11 328 11 11 74 618 47 112 18	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. STO. STO. CON' STO. CON' CON' CON' STO. CON'	ARK TINUOUS P APPR TINUOUS P APPR TINUOUS TINUOUS P APPR	S ROUT ROACHE S ROUT ROACHE S ROUT VADSWO S ROUT S ROUT ROACHE	FE TRES @ SIS @ SIS @ SIS @ SIS @ SIS & TRES & SIS & S	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN EATMEN	TT CORP.		70N)				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 13 17 17 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE A 2 LANE 4 LANE A 4 LANE A 2 LANE 4 LANE A 7 LANE A 1 LANE A	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII SWAY PPROACH APPR. W. NE H APPRO APPR. W. NE I CONTRANSIT NE NARRO Y LEFT TAL CUF PROACH	IVIDED NG LANE LANE LANE LANE TO TION TO TION OW BR TURN TURN REP RVE RVE RVE H ALT.	IDGE _ANE
PART A A A A B B B B B	MEDII	INA	LOCATION ROUTE SR 18 SLM S FROM 0.00 2.41 2.65 2.89 7.58 7.78 7.98 5.53 5.75 8.10 8.37	70 2.41 2.65 2.89 7.58 7.78 7.98 9.10 SUB- 5.75 7.45 8.37 8.57 8.85 11.01	GAP 6 6 GAP 16 GAP GAP GAP GAP 6 6 6 GAP GAP 6 6 6 GAP CAP C	621 RPM REFLECTOR, INSTALLATION ONLY EACH 172 27 27 27 27 27 40 682 47 112 18 27	RAIS PRISMATI ONE - WAY WHITE 16 16 16 16	YELLOW YELLOW YELLOW 172 11 11 328 11 11 74 618 47 112 18 11 11 11 11 11 1	TWO -	VEM ECTOR - WAY	TYPES	CON' STO. STO. STO. CON' STO. CON' CON' CON' STO. STO. STO. STO.	ARK TINUOUS P APPR TINUOUS P APPR TINUOUS TINUOUS P APPR	S ROUT ROACHE S ROUT ROACHE S ROUT VADSWOO S ROUT S ROUT ROACHE	S @ SI S @ SI S @ SI FE TRE RTH NO FE TRE S @ SI S @ SI S @ SI S @ SI	REATMEN R 83 R 83 EATMEN R 57 R 57 EATMEN EATMEN R 162 0	CORP. TT SOUTH	JUNCTI	70N)				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 13 17 17 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	MULTILA TYPICAL TAPERED DECELER PARALLE MULTILA EXPRESS STOP AP I LANE A TURN LA THROUGH 2 LANE A 4 LANE [2 LANE I 4 LANE I 7 LANE I 7 LANE I 7 LANE I 1 LA	TION NE UNDI SPACIN D ACCEL RATION L EL ACEL NE DIVII SWAY PPROACH APPR. W. NE H APPRO APPR. W. NE I CONTRANSIT NE NARRO Y LEFT TAL CUF PROACH	IVIDED NG LANE LANE LANE LANE TO TION TO TION OW BR TURN TURN REP RVE RVE RVE H ALT.	IDGE _ANE	



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#/	II' X 4' =	44 SQ FT
#2	15.5' X 4' •	62 SQ FT
#4	8' X 4' =	32 SO FT
# 5	17' X 8' =	136 SQ FT
#6	6' X 4' =	24 SQ FT
#8	5.5' X 4' =	22 SO FT
#9	5.5' X 4' =	22 SO FT
#13	5' X 4' =	20 SO FT
#14	4.5' X 4' =	18 SO FT
* 15	16.5' X 4' =	66 S0 FT
#16	4.5′ X 4′ -	18 SQ FT
#17	6' X 4' =	24 SQ FT
#18	14.5' X 4' =	58 SO FT
* 19	5' X 6' =	30 SQ FT
* 20	5.5′ X 4.5′ -	25 SO FT
	TOTAL	601 SQ FT

THE REMOVAL OF THE EXISTING WALK SHALL BE PAID FOR UNDER THE UNIT BID PRICE PER SO FT OF ITEM 202 WALK REMOVED.

ITEM 202 CURB REMOVED. AS PER PLAN

AT THE FOLLOWING LOCATIONS, EXISTING CURB SHALL BE GROUND DOWN FLUSH WITH THE NEW ASPHALT IN ORDER TO INSTALL CURB RAMPS. THE CURB TRANSITION SHALL BE GROUND TO A 45° ANGLE, TRANSITION LENGTH TO DEPEND ON CURB HEIGHT.

```
CURB RAMP CURB
                  45°
#3 =
         10 FT
         8 FT
#6 -
         8 FT
         8 FT
#8 =
         8 FT
#9 -
         8 FT
#// -
         6 FT
*12 -
         6 FT
#13 -
         8 FT
#14 -
         8 FT
         8 FT
#16 -
         8 FT
#17 =
         8 FT
         8 FT
#18 =
         6 FT
#19 -
#20 -
        8 FT
        132 FT
TOTAL
```

THE REMOVAL OF THE EXISTING CURB SHALL BE PAID FOR UNDER THE UNIT BID PRICE PER FT OF ITEM 202 CURB REMOVED, AS PER PLAN.

ITEM 608 4" CONCRETE WALK

AT THE FOLLOWING LOCATIONS, THE CONCRETE WALK SHALL BE PLACED UP TO THE NEW CURB

```
#1 5' X 4' -
                 20 SO FT
#2 9.5' X 4' =
                 38 SO FT
#3 9' X 4' =
                 36 S0 FT
#15 10' X 4' =
                 40 SQ FT
#18 8.5' X 4' =
                 34 SQ FT
                168 SQ FT
```

ALL MATERIAL, EQUIPMENT, AND LABOR AT THE FOLLOWING LOCATIONS SHALL BE PAID FOR UNDER THE UNIT SO FT OF ITEM 608 4" CONCRETE WALK.

ITEM 608 CURB RAMP, AS PER PLAN

AT THE FOLLOWING LOCATIONS, THE CURB RAMPS SHALL BE INSTALLED:

```
#1 6' X (4.5' + 4') /2 = 25.5 SQ FT
#2 6' X (4.5' + 4') /2 - 25.5 S0 FT
#3 6' X (4.5' + 4') /2 - 25.5 S0 FT
#4 8' X (4.5' + 4') /2 = 34 SQ FT
    8' X 17' =
                             136 SQ FT
    6' X (4.5' + 4') /2 = 25.5 SO FT
    6' X 5' =
                             30 SQ FT
    5.5' X (4.5' + 4') /2 = 23.5 SQ FT
    5.5' X (4.5' + 4') /2 - 23.5 SO FT
#11 5' DEEP -
                             45 SQ FT
#12 5' DEEP =
#13 5' X 4' =
                             45 SQ FT
20 SQ FT
#14 4.5' X 4' =
                             18 SQ FT
*15 6' X (4.5' + 4') /2 = 25.5 S0 FT
*16 4.5' X 4' = 18 S0 FT
#17 6' X (4.5' + 4') /2 = 25.5 SQ FT
*18 6' X (4.5' + 4') /2 = 25.5 SQ FT
                             30 SQ FT
#20 5.5' X 4.5' =
                             25 SQ FT
                            626.5 SQ FT
          TOTAL
```

SEE PLAN INSERT SHEETS FOR "CURB RAMPS WITH TRUNCATED DOMES" DETAILS, SHEETS 52-54.

ALL MATERIAL, EQUIPMENT, SEEDING, AND LABOR REQUIRED FOR THE INSTALLATION OF THESE CURB RAMPS WITH TRUNCATED DOMES SHALL BE PAID FOR UNDER THE UNIT SO FT OF ITEM 608 CURB RAMP, AS PER PLAN.

ITEM 644 CROSSWALK LINE

AT THE FOLLOWING LOCATIONS, THE CROSSWALK LINE SHALL BE PLACED FROM CURB RAMP TO CURB RAMP.

```
#1 TO #2 -
                 64 FT
#3 TO #4 =
                 78 FT
#5 TO #6 =
                 50 FT
#7 TO #8 -
                 56 FT
#9 TO #10 =
                 50 FT
#12 TO #13 -
                 76 FT
#11 TO #14 -
                 58 FT
#15 TO #16 -
                 48 FT
#17 TO #18 -
                 50 FT
#20 TO #21 -
                 100 FT
#20 TO #21 =
                 II6 FT
                746 FT
TOTAL
```

THE FOLLOWING LOCATIONS SHALL BE PAID FOR UNDER THE UNIT FT OF ITEM 644 CROSSWALK LINE AND PAID FOR ON SHEET 49, PAVEMENT MARKING INFORMATION.

> NOTE: FOR THE NUMBER LOCATIONS SHOWN ABOVE, SEE SHEET 50. #1 TO #18 ARE ALL IN PART A. ON SR 18 IN LITCHFIELD CIRCLE. #19 TO #21 ARE IN PART B, ON SR 94 IN SHARON CENTER.

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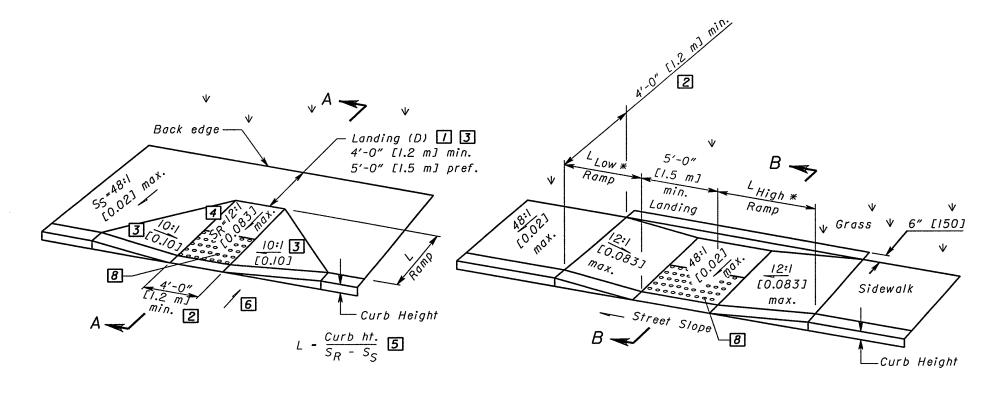
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Ramp Length @ I"/ft [0.083] Street Slope LLOW SIDE * LHIGH SIDE * 0.01 5'-5" [1.6 m] 6'-10" [2.1 m] 0.02 4'-10" [1.5 m] 7'-11" [2.4 m] 4'-5" [1.3 m] 9'-5" [2.9 m] 0.04 4'-1" [1.2 m] 11'-8" [3.6 m] 0.05 3'-9" [1.1 m] 15'-2" [4.6 m] * Measured along the back of a 6" [150] high curb.

Curb ht. L HIGH = \square 0.083 - Street Slope

Curb ht. 7 0.083 + Street Slope

LEGEND

- May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
- May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
- Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

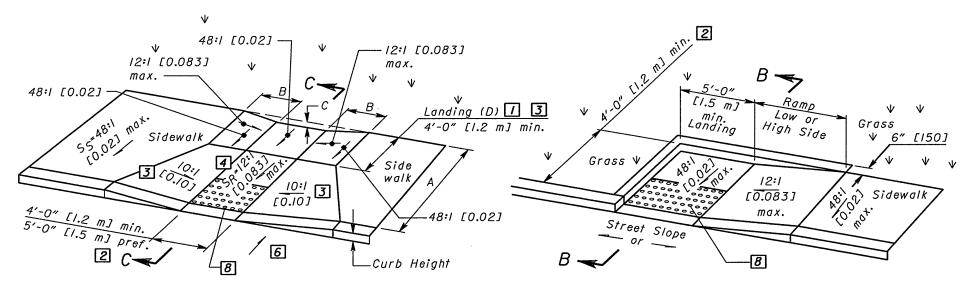
The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.

In existing sidewalks, where the maximum ramp slope (S_R) is not feasible, it may be reduced as follows:

- 10:1 [0.10] for a max. rise of 6" [150], 8:1 [0.125] for a max. rise of 3" [75], 6:1 [0.167] over a max. run of 2'-0" [610] for historic areas where a flatter slope is not feasible.
- The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
- Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
- 7 Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.
- Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp. See NOTES on sheet 3.

See Sht. 3/3 for SECTION A-A PERPENDICULAR CURB RAMP DETAIL

See Sht. 3/3 for SECTION B-B PARALLEL CURB RAMP DETAIL (DOUBLE)



See Sht. 3/3 for SECTION C-C

COMBINED CURB RAMP DETAIL

B = C / 0.083 $C = [Curb \ ht. + A(S_S)] - [(A-D)S_R + D(0.02)]$ See Sht. 3/3 for SECTION B-B

PARALLEL CURB RAMP DETAIL (SINGLE)

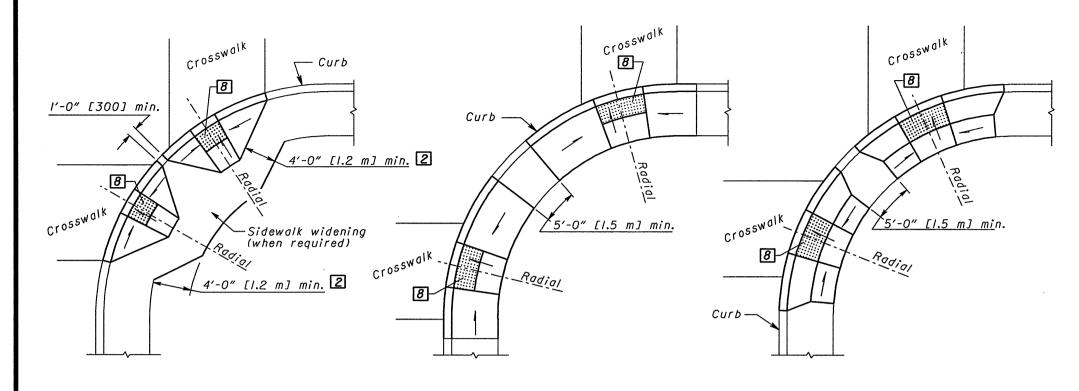
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AMP

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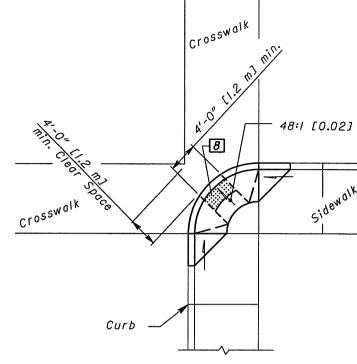
CURB



DESIGN A
PERPENDICULAR RAMP

DESIGN B PARALLEL RAMP

DESIGN C COMBINATION RAMP



DESIGN D DIAGONAL RAMP

Use in existing walks only and when

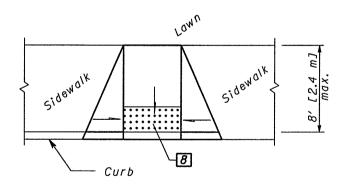
site constraints prohibit other designs. The diagonal ramp may be perpendcular, parallel or combination.

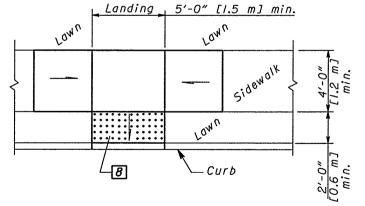
Avoid using where curb radii are less than 20'-0" [6.0 m].

CORNER CURB RAMP DESIGNS

For LEGEND, See sheet 1.

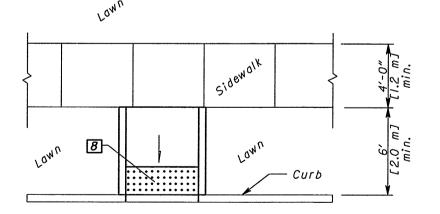
(See Curb Ramp Details on Sht. 1/3 for additional requirements.)





DESIGN E PERPENDICULAR RAMP

DESIGN F PARALLEL RAMP



DESIGN G PERPENDICULAR RAMPS w/o FLARES

MID BLOCK CURB RAMP DESIGNS

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)

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NOTES

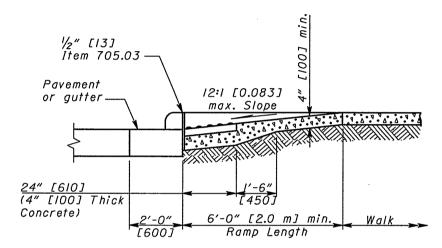
SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than adjacent walk.

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" [610] from the back of the curb for the entire width of the ramp opening as shown on details on Sheet I.

Pavers will meet ASTM C 902 Class SX, Type I, or C 936, or C 1272 Type R.

Acceptable manufacturers and products are:

1) Whitacre-Greer Fireproofing Company,
1400 S. Mahoning Ave, Alliance, OH, 4460I, (800) WG PAVER
ADA Paver, 4"x8"x2-1/4", Clear Red (Rustic) #30.



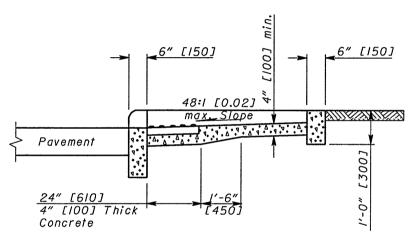
SECTION A-A NORMAL DETAIL

See Sheet I of 3. (Gutter shown)

- 2) Hanover Architectural Products, 240 Bender Rd., Hanover, PA. 17331, (717) 637-0500 Detectable Warning Paver, 12"x12"x2", or 24"x24"x2", Red or Quarry Red.
- 3) Endicott Clay Products, PO Box 17, Fairbury, NE, 68352, (402) 729-5804 Handicap Detectable Warning Paver, 4"x8"x2-1/4". Red Blend.

Pavers will laid on top of a 4" [100] unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum $\frac{1}{2}$ " [13] thick bed of latex modified cement mortar. Mortar joints to a width not greater than $\frac{1}{32}$ " [4] and not less than $\frac{1}{16}$ " [1.5]. Pavers shall not be directly touching each other unless they have spacing bars.

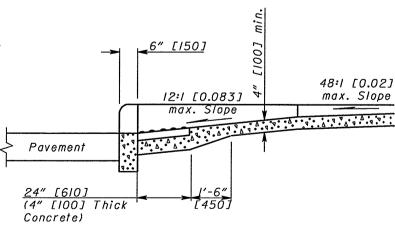
Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be laid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.



SECTION B-B See Sheet / of 3.

Adjacent to P.C.C. - 1/2" [13] Preformed Joint material Item 705.03 with Joint See DETAIL A-Sealer applied per SCD BP-5.1. 1/2" [13] Remove Îtem 705.03 Existing 12:1 [0.083] Curb max. Slope A. 4. A. A. V. LExisting Pavement or Gutter Saw Cut if Curb is Monolithic with Pavement or Gutter 2'-0" [610] 4" [100] thick [450] Concrete 6'-0" [2.0 m] min. Existing Ramp Lenath Payment Length

SECTION A-A
EXISTING WALK DETAIL
See Sheet | of 3.

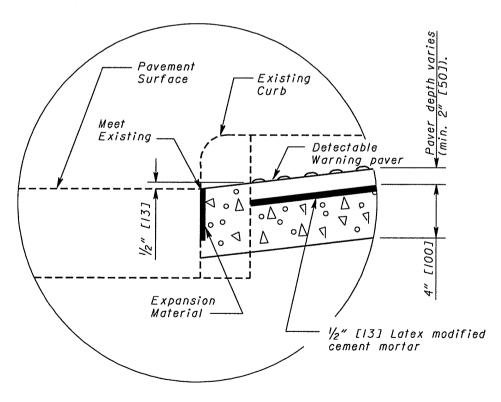


SECTION C-C See Sheet I of 3.

The surface of any two adjacent units should not differ by more than $\frac{1}{8}$ " [3] in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during constructionn.

EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. A $\frac{1}{2}$ " [13] Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

PAYMENT: Walk and curb, Items 608 and 609, shall be measured through the curb ramp area paid for under their respective Items. Item 608 - Curb Ramp, As Per Plan, Each constructed in new curb and walk shall include the cost of any additional materials and installation (including truncated domes), grading, forming and finishing. Item 608 - Curb Ramp. As Per Plan, Square Foot [Meter], constructed in existing curb and walk shall include the cost of furnishing and installing all materials (including truncated domes), grading, forming, and finishing of the curb and walk of the curb ramp. Removal of existing curb and walk shall be paid for under Item 202.



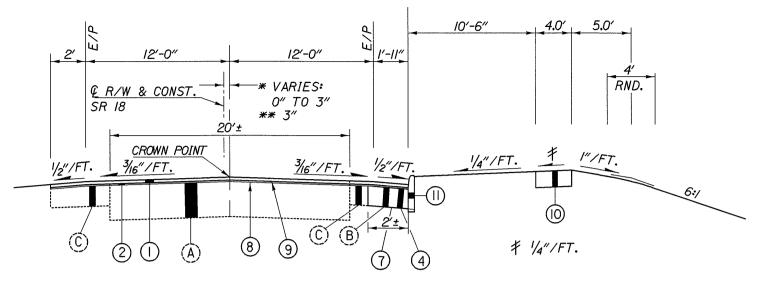
DETAIL A

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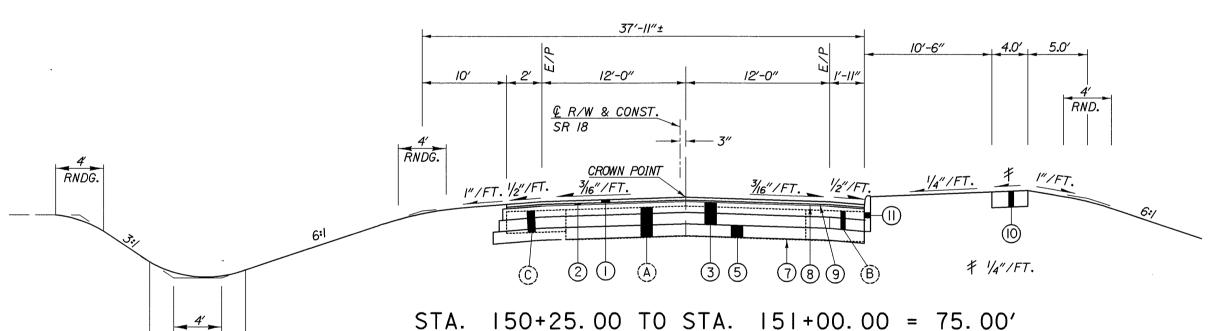
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AT STATION 148+45 AND 153+00, THE TOP AND FACE OF THE PROPOSED CURB SHALL MATCH THE EXISTING CURB. THE CURB SHALL TAPER TO FULL HEIGHT IN 10'.



* STA. | 48+45.00 TO STA. | 150+25.00 = | 180.00' ** STA. | 151+00.00 TO STA. | 153+00.00 = 200.00'



PAVEMENT EDGE STEP DETAIL

- (A) EXISTING 6" ASPHALT CONCRETE ON 9" CONCRETE BASE
- (B) EXISTING CURB AND GUTTER

RNDG.

- (C) EXISTING 9" ± ASPHALT CONCRETE
- ITEM 442 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 mm, TYPE A (446)
- 2 ITEM 442 ¾" ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 mm,TYPE A (448)
- 3 ITEM 301 9" BITUMINOUS AGGREGATE BASE, PG64-22
- (4) ITEM 302 12" ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN

- (5) ITEM 304 6" AGGREGATE BASE
- (6) NOT USED
- (7) ITEM 204 SUBGRADE COMPACTION
- (8) ITEM 407 TACK COAT (SEE GENERAL NOTE)
- ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
 (SEE GENERAL NOTE)
- (O) ITEM 608 4" OR 8" CONCRETE WALK
- () ITEM 609 CURB, TYPE 6

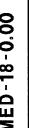
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DATE: 11/04/03

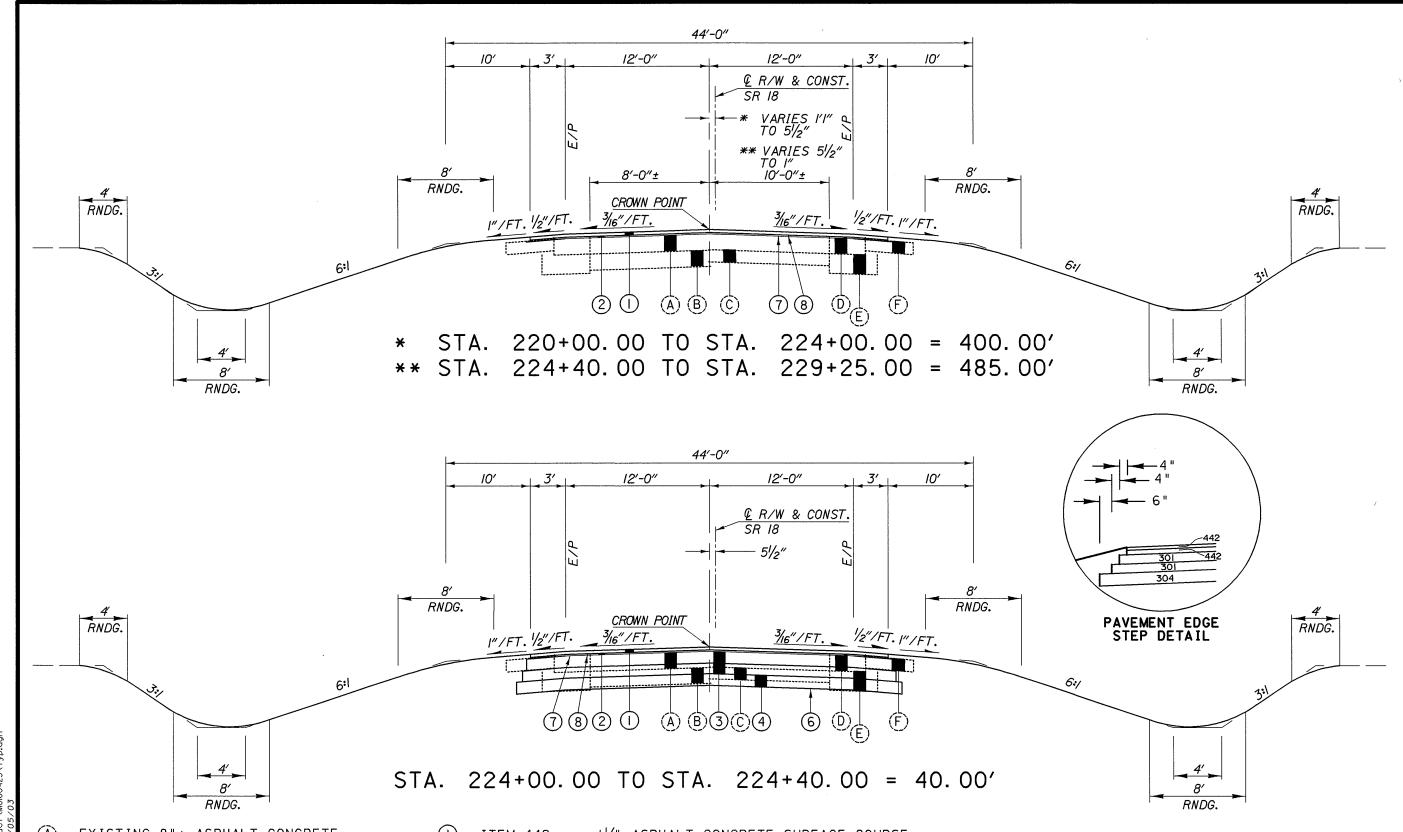
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MED-18-4.25 . SECTIONS -TYPICAL







- EXISTING 8" ± ASPHALT CONCRETE
- EXISTING 8" CONCRETE BASE

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- EXISTING 6" CONCRETE BASE
- EXISTING 8" ASPHALT CONCRETE
- EXISTING 10" AGGREGATE
- EXISTING 6" AGGREGATE

- 1/2" ASPHALT CONCRETE SURFACE COURSE, ITEM 442 -12.5 mm, TYPE A (446)
- ITEM 442 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 mm, TYPE A (448)
- ITEM 301 9" BITUMINOUS AGGREGATE BASE, PG64-22
- ITEM 304 6" AGGREGATE BASE

- NOT USED
- ITEM 204 SUBGRADE COMPACTION
- ITEM 407 TACK COAT (SEE GENERAL NOTE)
- ITEM 407 TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTE)

CULVERT GENERAL NOTES

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

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.

UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

UTILITIES OWNERSHIP

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

MED-18-0285

ELECTRIC:

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LORAIN-MEDINA RURAL ELECTRIC P.O. BOX 158 RD. WELLINGTON, OHIO 44090 I-800-222-5673

TELEPHONE: 6223 NORWALK ROAD

MEDINA, OHIO 44256 330-723-9580

WATER:

RURAL LORAIN COUNTY WATER AUTHORITY 4240IS.R. 303, BOX 567

440-355-6060

GAS:

COLUMBIA GAS OF OHIO 7080 FRY ROAD MIDDLEBURG HEIGHTS, OHIO 44130 440-891-2428

CABLE:

ARMSTRONG UTILITIES 1141 LAFAYELLE ROAD MEDINA, OHIO 44256 330-722-3141

MED-18-4.25

ELECTRIC:

LORAIN-MEDINA RURAL ELECTRIC P.O. BOX 158 RD. WELLINGTON, OHIO 44090 I-800-222-5673

TELEPHONE: 6223 NORWALK ROAD MEDINA, OHIO 44256 330-723-9580

WATER:

RURAL LORAIN COUNTY WATER AUTHORITY 42401 S.R. 303, BOX 567 LAGRANGE, OHIO 44050

440-355-6060

COLUMBIA GAS OF OHIO

7080 FRY ROAD MIDDLEBURG HEIGHTS, OHIO 44I30 440-891-2428

COLUMBIA GAS TRANSMISSION 589 NORTH STATE ROAD MEDINA, OHIO 44256 330-723-4900

CABLE:

ARMSTRONG UTILITIES **II4ILAFAYELLE ROAD** MEDINA, OHIO 44256 330-722-3141

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.

EROSION CONTROL

ITEMS 601 IS PROVIDED IN THE PLAN FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

CLEARING AND GRUBBING

MED-18-0285

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO

SIZES	NO. TREES	NO. STUMPS	TOTA
18"	I	0	1
30"	0	0	0
48"	0	0	0
60 "	0	0	0

CLEARING AND GRUBBING

MED-18-4.25

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201. CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 659, SEEDING AND MULCHING

MED-18-0285

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

(QUANTITY ON SHEET 75)

1488 SQ. YD. 165 CU. YD. . 20 TON . 31 ACRE 659, SEEDING AND MULCHING 659, TOPSOIL 659, COMMERCIAL FERTILIZER 659. LIME 659, WATER ____8_M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 659, SEEDING AND MULCHING

MED-18-4.25

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

5453 SQ. YD. 605 CU. YD. . 74 TON 1. 13 ACRE 30 M. GAL. 659, SEEDING AND MULCHING (QUANTITY ON SHEET 91) 659, TOPSOIL 659, COMMERCIAL FERTILIZER 659, LIME 659, WATER

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

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CULVERT GENERAL NOTES

ENVIRONMENTAL COMMITMENTS

I) BANK STABILIZATION WILL BE LIMITED TO WITHIN 25 FEET UPSTREAM AND DOWNSTREAM OF THE EXISTING STRUCTURE. BANK STABILIZATION WILL BE LIMITED TO REGRADING OF THE BANKS FOR THE TOE-OF-SLOPE (IN-STREAM) TO THE TOP OF BANK AND WILL INCLUDE PLACEMENT OF ROCK CHANNEL PROTECTION WHERE REQUIRED. THIS WILL EXCLUDE WORK SUCH AS WIDENING, DEEPENING OR RELOCATION. THIS STABILIZATION WILL BE KEPT TO A MINIMUM.

2)IN-STREAM WORK WILL BE LIMITED WHERE PRACTICABLE AND ONLY CLEAN NON-ERODIBLE MATERIAL WILL BE USED FOR FORDS AND COFFERDAMS. THIS TEMPORARILY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED.

3)THE CONTRECTOR SHALL TAKE ALL PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

4)AREAS THAT WILL BE CLEARED FOR CONSTRUCTION ARE TO BE SEEDED AND MULCHED AS PER ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATION MANUAL.

TREE REMOVAL RESTRICTIONS

THIS PROJECT IS WITHIN THE KNOWN SUMMER BREEDING RANGE OF THE FEDERAL ENDANGERED INDIANA BROWN BAT AND MAY IMPACT THAT SPECIES HABITAT. THE SUMMER ROOSTING AND BROOD REARING HABITAT OF THIS SPECIES IS IN LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING, OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES. TREE REMOVAL WILL ONLY BE DONE BETWEEN SEPTEMBER IG AND APRIL I4 WHEN THIS SPECIES IN NOT USING SUCH HABITAT.

SURVEY DISC ON STRUCTURE

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST ONE (I) WEEK IN ADVANCE OF POURING THE CONCRETE FOR COMPLETION OF THE ABUTMENT. THE ENGINEER WILL PROVIDETHE CONTRACTOR ONE (I) SURVEY DISC FOR EACH STRUCTURE (OBTAINED FROM THE DISTRICT SURVEYOR) WHICH THE CONTRACTOR SHALL PLACE IN THE SURFACE OF THE FRESH CONCRETE. THE LOCATION OF THE DISC SHALL BE ON THE HEADWALL AND ON A FLAT, HORIZONTAL SURFACE. THE BENCHMARK SHALL BE ACCESSIBLE TO A SURVEYOR'S ROD WITHOUT ANY OBSTRUCTIONS. COST OF THIS WORK IS CONSIDERED INCIDENTAL TO ITEM 511 BID ITEM.

703.05 AGGREGATE FOR ASPHALT CONCRETE (SOUNDNESS REQUIREMENTS)

IN ADDITION TO THE COARSE AGGREGATE REQUIREMENTS OF 703.05. EACH INDIVIDUAL SIEVE FRACTION SOUNDNESS LOSS WILL BE CALCULATED AND NO FRACTIONAL SIZE SHALL EXCEED THE FOLLOWING:

- a. 13.0 PERCENT FOR ALL SURFACE COURSES AND ANY ASPHALT CONCRETE COURSE DIRECTLY BELOW AN OPEN GRADED FRICTION
- b. 13.0 PERCENT FOR NO. 8 AGGREGATE FRACTIONS USED IN INTERMEDIATE COURSES.
- c. 15.0 PERCENT FOR ALL OTHER COARSE AGGREGATE USED IN INTERMEDIATE COURSES.

STATISTICAL EVALUATION OF DATA WILL BE PER GROUP LIST PROCEDURES.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE RATE OF

407, TACK COAT

407, TACK COAT FOR INTERMEDIATE COURSE

. 03

GAL./SY.

GAL./SY.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-I.I. EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

ASBESTOS CERTIFICATION

DUE TO THE SIZE OF THE EXISTING STRUCTURES, THE CONTRACTOR AND THE STATE ARE NOT REQUIRED TO COMPLETE AN ASBESTOS CERTIFICATION FORM FOR THIS PROJECT.

PROJECT DETOUR LIMITATIONS

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR THE REMOVAL OR MODIFICATION OF THE EXISTING STRUCTURE OR CONDUIT UNTIL ALL PRECAST CULVERT MATERIAL, NECESSARY TO PLACE THE ROADWAY BACK INTO SERVICE HAVE BEEN TESTED, APPROVED AND ARE READY FOR DELIVERY TO THE PROJECT SITE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS. THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 OF THE CMS.

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 111.

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SEQUENCE OF CONSTRUCTION

SEE TIME LIMITS. SEQUENCING WORK & LIQUIDATED DAMAGES ON SR 18 NOTE ON SHEET 12 FOR DETAILS.

MAINTAINING TRAFFIC AT MED-18-0285

THE DRIVEWAY AT STA. 149+92.5 SHALL NOT BE TAKEN OUT OF SERVICE UNTIL THE TEMPORARY DRIVE HAS BEEN CONSTRUCTED. ALL DRIVEWAY ACCESSES (PERMANENT OR TEMPORARY) SHALL BE MAINTAINED DURING CONSTRUCTION
OF THIS PROJECT. ALL COSTS INVOLVED IN MAINTAINING
DRIVEWAY ACCESS SHALL BE INCLUDED IN ITEM 614 MAINTAINING

ROADS FOR MAINTAINING TRAFFIC EARTHWORK AT MED-18-0285

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

TEMPORARY EARTHWORK EXCAVATION 272.0 CU. YD. TEMPORARY EARTHWORK EMBANKMENT 0.0 CU. YD.

ROADS FOR MAINTAINING TRAFFIC EARTHWORK AT MED-18-4.25

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

TEMPORARY EARTHWORK EXCAVATION 90.0 CU. YD. TEMPORARY EARTHWORK EMBANKMENT 33.0 CU. YD.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 11/2" INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKETLIED AT THE DIRECTION OF THE ENGINEER BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

THE COST OF BACKFILLING AND AT THE DIRECTION OF THE ENGINEER SHALL BE INCLUDED WITH ITEM 614, MAINTAINING

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

1) THE QUADGUARD CZ, (24" [610 MM] WIDE 6-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., ONE EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312.467.6750).

THE LENGTH OF THE 6-BAY QUADGUARD CZ IS 20'-9" [6.33 M]. 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
QSCZCVR-T4	QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES	5/13/99 Rev. J	8/27/99
35-40-10	QUADGUARD SYSTEM CONCRETE PAD, CZ, QG	II/I9/97 Rev. D	8/27/99
35-40-16	QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, QG	7/30/99 Rev. F	8/27/99
35405IZ	QUADGUARD CZ SYSTEM NOSE ASSEMBLY, CZ, QG, 24, 30, 36	5/17/99	8/27/99
35-40-18	TRANSITION ASSEMBLY, 4 OFFSET, QG	6/25/99 Rev. F	8/27/99
3540260	QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY	II/I9/97 Rev. C	8/27/99

2) THE TRACC (TRINITY ATTENUATING CRASH CUSHION)
MANUFACTURED BY SYRO INC., 1170 N. STATE STREET,
GIRARD, OHIO 44420 (TELEPHONE: 330.545.4373).

THE TRACC IS 21'-0" [6.4 M] LONG AND 2'-7" [0.8 M] 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:

Dwg. #	Drawing Name	Dwg./Rev. Date	ODOT Approval Date
SS450	CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS	3/12/99 Rev. I	8/27/99
SS455	TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION & SECTIONS	2/18/99	8/27/99
SS46I	TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS	6/30/99 Rev. I	8/27/99
SS462	TRACC TRANSITION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION & SECTIONS	6/30/99	8/27/99

THE CONTRACTOR SHALL PROVIDE A REPLACEMENT UNIT WHEN AN IMPACT IS SEVERE ENOUGH TO REQUIRE COMPLETE REPLACEMENT OF THE ATTENUATOR. THE CONTRACTOR SHALL HAVE A SPARE PARTS PACKAGE AVAILABLE ON THE PROJECT SITE AT ALL TIMES WHEN AN ATTENUATOR IS IN PLACE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE COMPLETE SPARE PARTS PACKAGE FOR EVERY I TO 6 UNITS INSTALLED ON THE PROJECT SITE. FOR EXAMPLE, 5 INSTALLED UNITS REQUIRE I SPARE PARTS PACKAGE AND 7 INSTALLED UNITS REQUIRE 2 SPARE PARTS PACKAGES.

SIGNAL TIMING

THE FOLLOWING TIMING SHALL BE USED AT BOTH MED-18-0285 AND MED-18-4.25 CULVERT LOCATIONS.

SIGNAL TIMING

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

CYCLE LENGTH: 120 SECONDS

GREEN AMBER RED

PHASE A 35 5 20 PHASE B 35 5 20

THE ABOVE TIMING MAY BE CHANGED WITH THE APPROVAL OF THE ENGINEER

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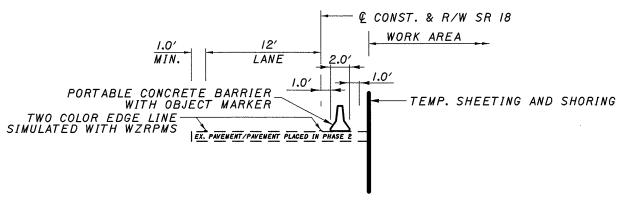
SECTIONS

TYPICAL

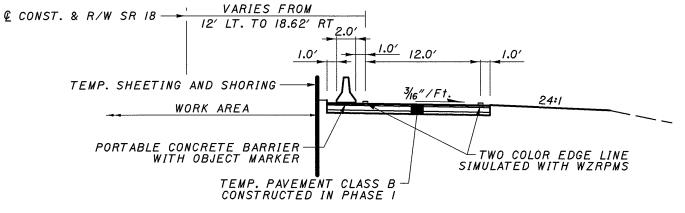
MOT

MED-18-0285

MOT TYPICAL SECTION PHASES 1 AND 4 MED-18-0285



MOT TYPICAL SECTION PHASE 3 MED-18-0285



MOT TYPICAL SECTION PHASE 2 MED-18-0285

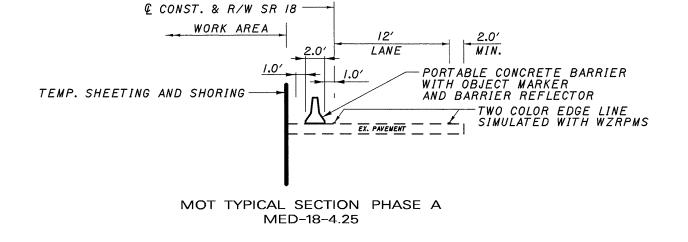
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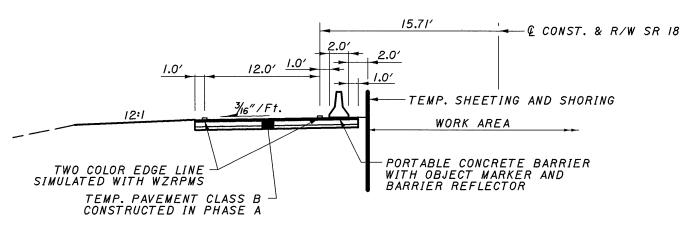
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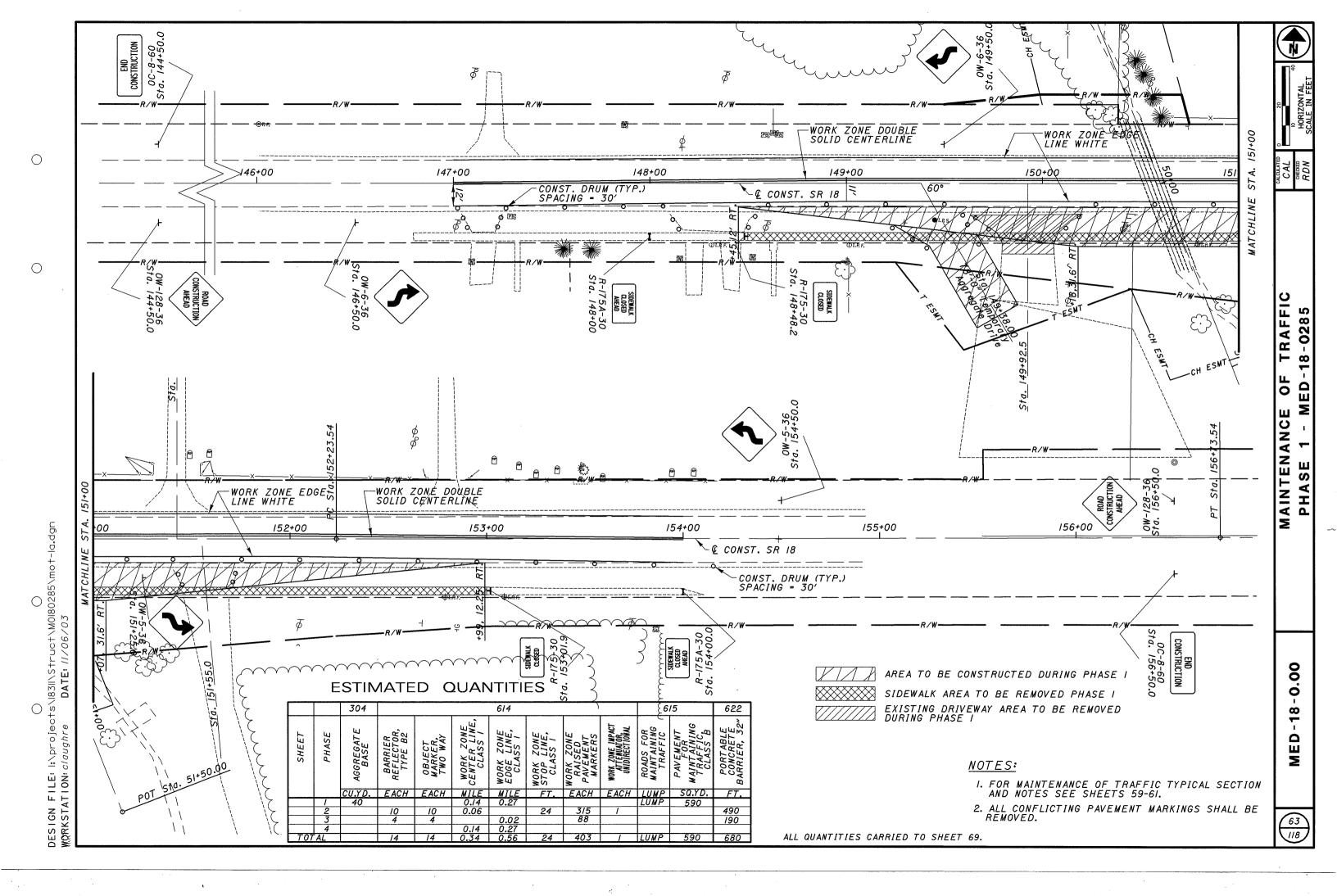
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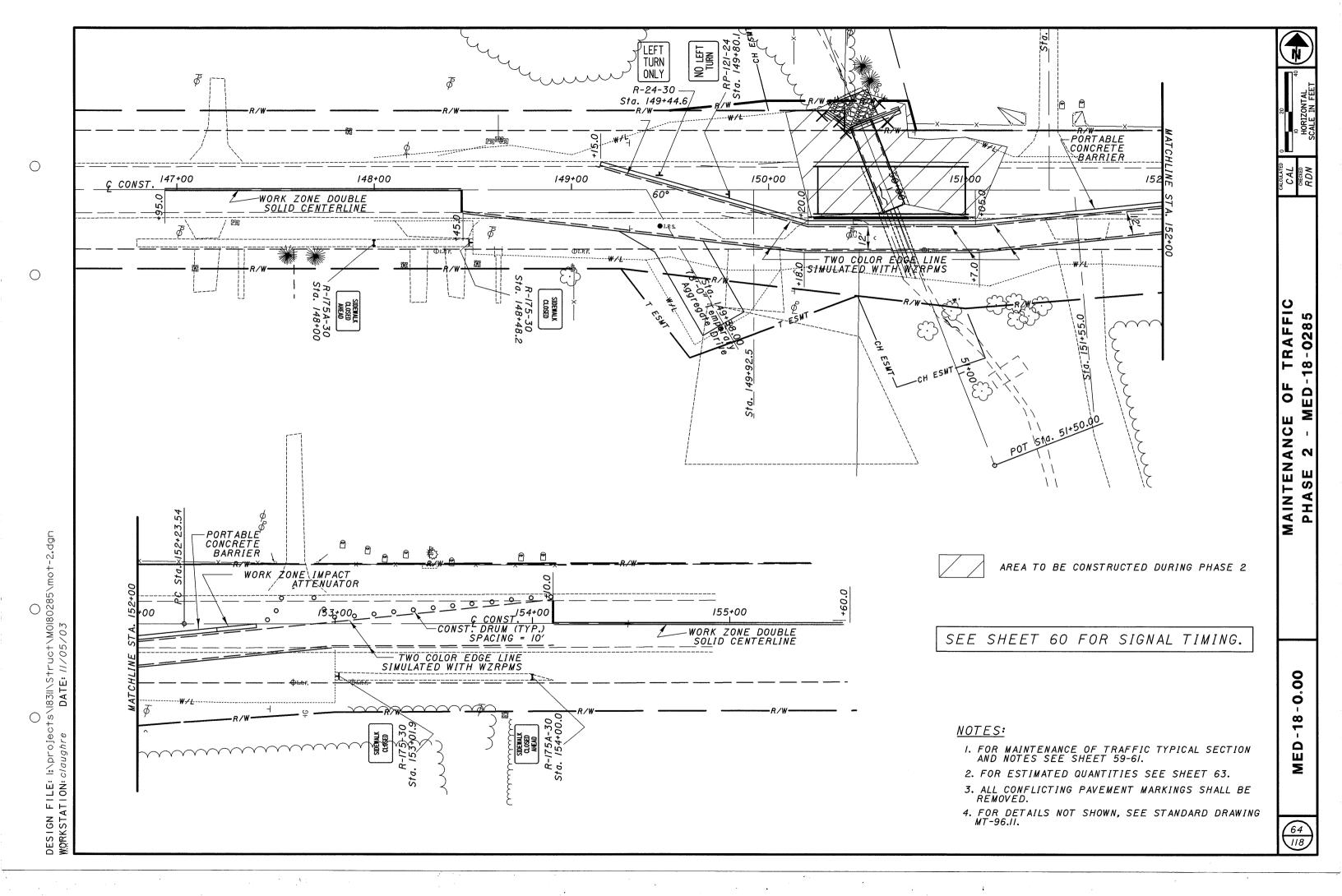
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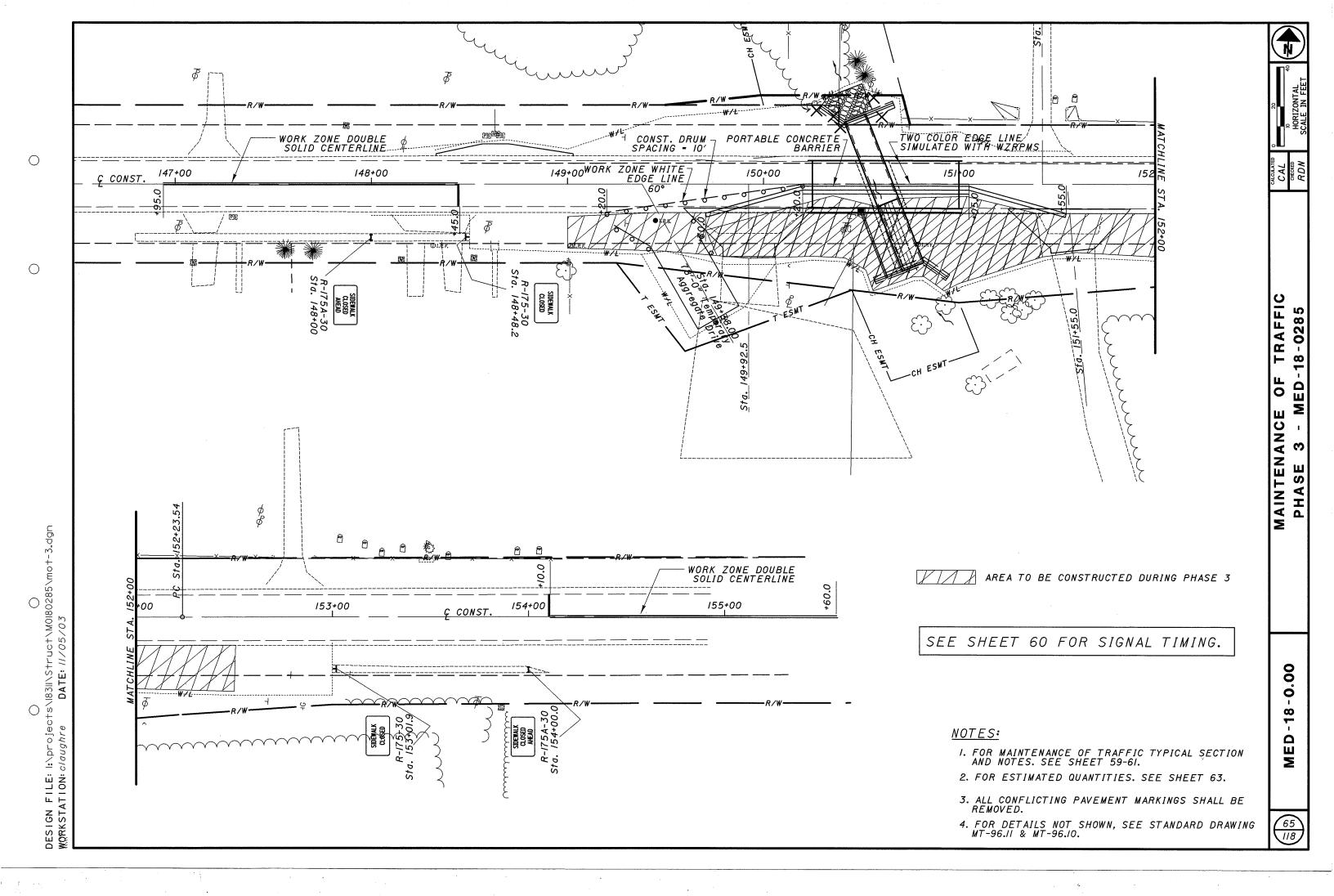


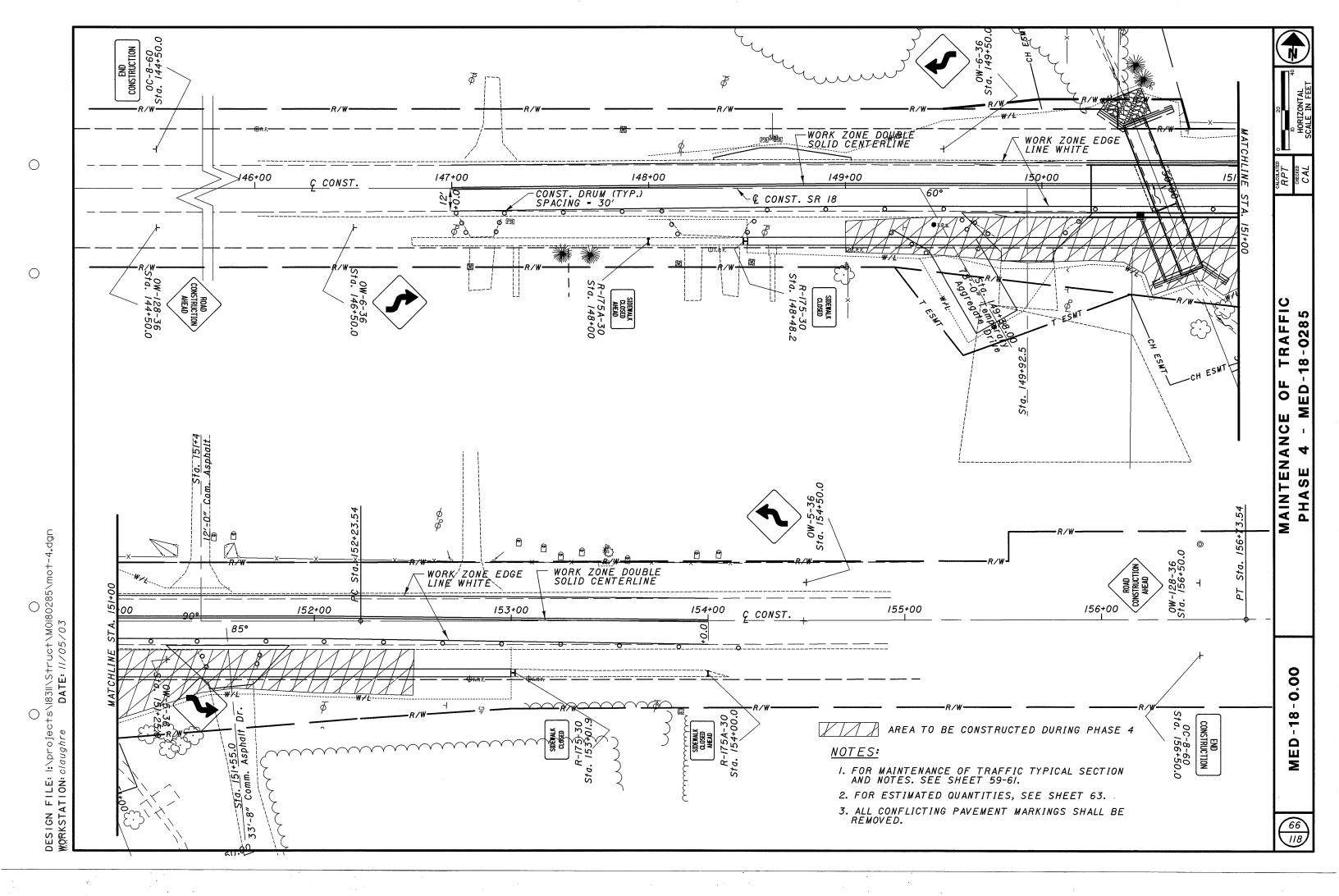


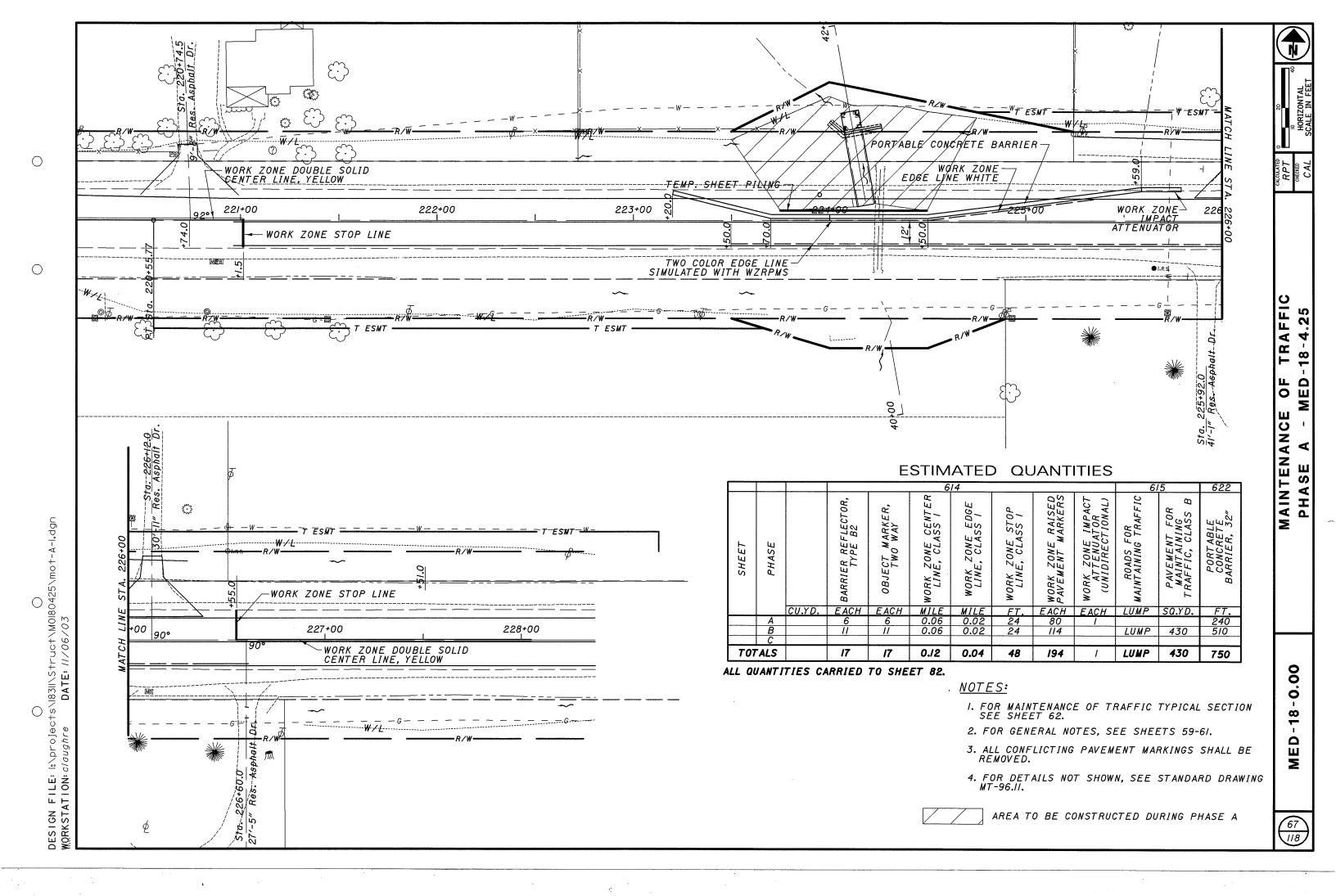
MOT TYPICAL SECTION PHASE B MED-18-4.25

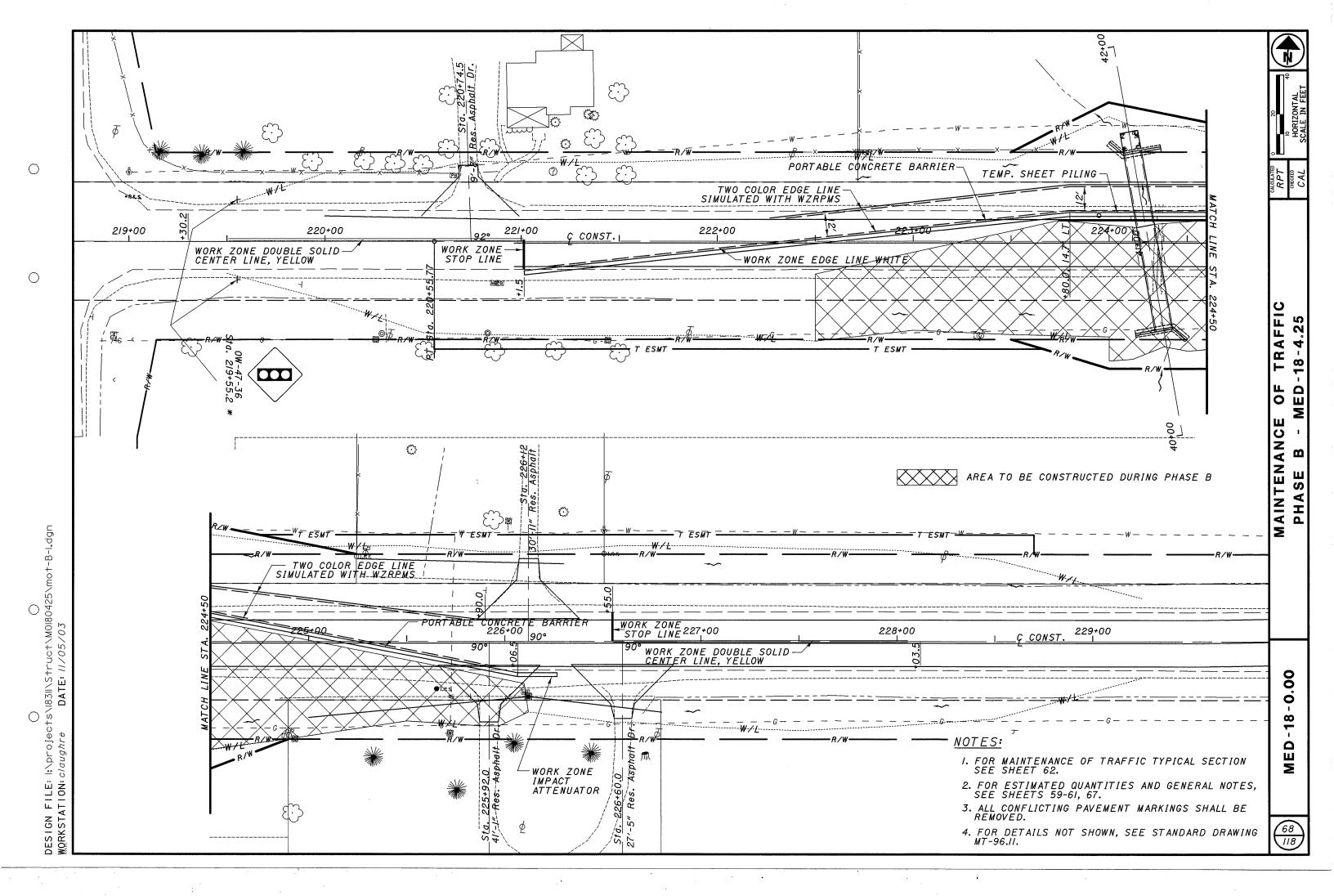












(9) <u>8</u>

CALCULATIONS

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LINE	ITEM			QUANTITY
	-			
	000	L CALLADETTE DAGE BELIAVED		
	202	CONCRETE BASE REMOVED 75' X 20'± / 9 =	166.66 YD²	····
	1	15 X 20 1 / 9 -	100.00 10	
		TOTAL =	166.66 YD²	167 YD 2
	202	DAVENEUT BENOVED		···
2	202	PAVEMENT REMOVED	166.66 YD²	
	 	13 / 201 / 3 -	100.00 10	
		TOTAL =	166.66 YD ²	167 YD²
3	204	SUBGRADE COMPACTION		
	204	29.92' X 75' / 9 =	249.33 YD²	
		2.5' X 380' / 9 =	105.56 YD 2	
	ļ	TOTAL =	354.89 YD²	355 YD²
4	301	9" ASPHALT CONCRETE BASE, PG 64-22		
	301	28.25' X 75' X 0.375 / 27 =	29.43 YD3	····
		28.59' X 75' X 0.375 / 27 =	29.78 YD ³	
		TOTAL =	59.21 YD ³	60 YD3
5	301	474 ASPHALT CONCRETE BASE, PG 64-22 (DI	RIVEWAYS)	
		STA 149+92.5 (CADD=1049.3 S.F. X .39583	$0/27 = 15.38 \text{ YD}^3$	
		STA 151+55 (CADD=872.7 S.F. X .39583')/2	$27 = 12.79 \text{ YD}^3$	00.1/03
	 	TOTAL =	28.17 YD ³	29 YD3
6	302	12" ASPHALT CONCRETE BASE, PG 64-22, AS		
		2.0' X 380' X 1.0 / 27 =	28.15 YD ³	
	 	TOTAL =	28.I5 YD ³	29 YD3
	 	TOTAL -	20:13 10	23 IU
7	304	6' AGGREGATE BASE		
		29.08 X 75 X 0.5 / 27 =	40.39 YD*	
	 	TOTAL =	40.39 YD ³	41 YD 3
8	304	IO* AGGREGATE BASE	0711 (07 70 01 1/03	
	 	TEMP. DRIVE @ STA. 149+38 (CADD=1263.78 S.F. X	.83'1/21= 39.01 YU*	
		TOTAL =	39.01 YD 3	39 YD3
	440	LIVE ACCUMENT COMPONENTS OF COMPONENTS OF COMPONENTS		
9	442	1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 27.92" X 75" X 0.125 / 27 =	9.69 YD 3	***************************************
	 	21.92° X 13° X 0.125 / 21 -	9.63 10	
		TOTAL =	9.69 YD3	IO YD 3
10	440	* ASPHALT CONCRETE INTERMEDIATE COURSE,	O. F. mm. TVDE A (AAO)	
10	442	27.92' X 75' X 0.0625 / 27 =	4.85 YD 3	
	 	TOTAL =	4.85 YD ³	5 YD³
-11	448	11/4" ASPHALT CONCRETE SURFACE COURSE, TYPE I.	PG 64-22 (DRIVEWAYS)	
	<u>''</u>	STA 149+92.5 (CADD=1049.3 S.F. X .1042')	$/27 = 4.05 \text{ YD}^3$	
		STA 151+55 (CADD=872.7 S.F. X .1042')/27		
	 	TOTAL =	7,42 YD ³	8 YD3
		TOTAL	1012 10	<u> </u>
12	407	TACK COAT		
	-	(27.92' X 75') / 9 X 0.08 GAL/SY =	I8.6 GAL	
· · · · · · · · · · · · · · · · · · ·	 	TOTAL =	18.6 GAL	I9 GAL
			IO.O OAL	
13	407	TACK COAT FOR INTERMEDIATE COURSE		
	 	(27.92' X 75') / 9 X 0.03 GAL/SY =	6.98 GAL	
	 	TOTAL =	6.98 GAL	7 GAL
14	601	ROCK CHANNEL PROTECTION, TYPE B WITH F		
	 	(CADD=268 S.F. X 2'-6")/27 =	24.81 YD ³	
	1	TOTAL -	24 OL VD3	05 VD3

GENERAL SUMMARY

		S	HEET	NU	MBE	R			ITEM				REFERENCE
57	63	67	69	71	75	76	111	ITEM	EXT.	QUANT.	UNIT	DESCRIPTION	SHEET NO.
												ROADWAY	
LUMP								201	11000	LUMP		CLEARING AND GRUBBING	
			167			LUMP		202	11000	LUMP 167	SQ.YD.	STRUCTURE REMOVED	
			167					202	23000 23900	167	SQ.YD.	PAVEMENT REMOVED CONCRETE BASE REMOVED	
				1800				202	30000	1800	SQ.FT.	WALK REMOVED	
				455				202	32500	455	FT.	CURB AND GUTTER REMOVED	
				10				202 202	35100 58100	IO .	FT. EACH	PIPE REMOVED, 24' AND UNDER	
					132			203	10000	132	CU.YD.	CATCH BASIN REMOVED EXCAVATION	
					81			203	20000	81	CU.YD.	EMBANKMENT	
			355					204	10000	355	SQ.YD.	SUBGRADE COMPACTION	
				1400			2	604 608	38500 10000	2 1400	EACH SQ.FT.	MONUMENT ASSEMBLY 4" CONCRETE WALK	
				400				608	15000	400	SQ.FT.	8" CONCRETE WALK	
-				455				609	26000	455	FT.	CURB, TYPE 6	
												EROSION CONTROL	
			25					601	32104	25	CU.YD.	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER	<u> </u>
165												TOPSOIL	
					1488			659 659	00300 10000	165 1488	CU.YD. SQ.YD.	SEEDING AND MULCHING	
.20								659	20000	.20	TON	COMMERCIAL FERTILIZER	
•3I 8								659 659	31000 35000	.3I 8	ACRE M GAL.	LIME WATER	
												DRAINAGE	
												DRAINAGE	
				ļ		LUMP		503 503	11100 21300	LUMP LUMP		COFFERDAMS, CRIBS AND SHEETING UNCLASSIFIED EXCAVATION	
						3692		509	10000	3692	POUND	EPOXY COATED REINFORCING STEEL	
						54		511	46201	54	CU.YD.	CLASS C CONCRETE, AS PER PLAN (RET WALL/WINGWALL-INCL. FTG.)	77
						225		512	33000	225	SQ.YD.	TYPE 2 WATERPROOFING	
						29 LUMP		516 518	13600 21230	29 LUMP	SQ.FT.	" PREFORMED EXPANSION JOINT FILLER POROUS BACKFILL WITH FILTER FABRIC	
				35		81		603 603	04600 94981	35 8l	FT.	12" CONDUIT, TYPE C 10' X 4' CONDUIT, TYPE A, 706.05, AS PER PLAN (1'-6" COVER)	77
								604	00800	1 29	EACH	CATCH BASIN, NO. 3A	•
						29		864	10100	29	SQ.YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
												PAVEMENT	
			60					301	46000	60	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22	
			29 29					301 302	48000 46001	29 29	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS) ASPHALT CONCRETE BASE, PG 64-22, AS PER PLAN	
	40		80					304	20000	120	CU.YD.	AGGREGATE BASE	8
			19	ļ				407	10000	19	GAL.	TACK COAT	
			7					407	14000	7	GAL.	TACK COAT FOR INTERMEDIATE COURSE	
			10 5					442 442	10000 20100	10 5		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448)	
			8				·····	448	48020	8	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, 9:5 MM, TITE A (448) ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 (DRIVEWAYS)	
				<u> </u>								MAINTENANCE OF TRAFFIC	
								614	10776		EAGU		
	403							614 614	12336 12800	403	EACH EACH	WORK ZONE IMPACT ATTENUATOR, (UNIDIRECTIONAL) WORK ZONE RAISED PAVEMENT MARKER	
	14							614	13302	14	EACH	BARRIER REFLECTOR, TYPE B2	
	14							614	13360	14	EACH	OBJECT MARKER, TWO WAY	
	.34 EC							614	21000	.34	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)	
	.56 24					 		614 614	22000 26000	.56 24	MILE FT.	WORK ZONE EDGE LINE, CLASS I (WHITE) WORK ZONE STOP LINE, CLASS I	
	<u>LUMP</u> 590							615 615	10000 25000	<u>LUMP</u> 590	SQ.YD.	ROADS FOR MAINTAINING TRAFFIC PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
	680							622	40020	680	FT.	PORTABLE CONCRETE BARRIER, 32"	
													•

					20	02							603		604		60	8		609	
EF IO.	STA	TION	SIDE		WALK REMOVED	CURB AND GUTTER REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED						12" CONDUIT, TYPE C		CATCH BASIN, NO. 3A		4 CONCRETE WALK	8 CONCRETE WALK		CURB, TYPE 6
	FROM	то			SQ. FT.	FT.	FT.	EACH						FT.		EACH		SQ. FT.	SQ. FT.		FT.
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C-1		157.00	D.T.																		455
U-1	148+45	153+00	RT																		455
CB-I	150	+50	RT								***************************************					1	-	<u> </u>			
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W-1	148+50	149+67.5	RT															470			
W-2	149+67.5	150+17.5	RT																200		
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W-4 W-5	151+81	153+00	RT				w summer.				,							476	200		
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R-I	148+45	153+00	RT			455															
R-2	148+50	153+00	RT		1800							~~~									<u> </u>
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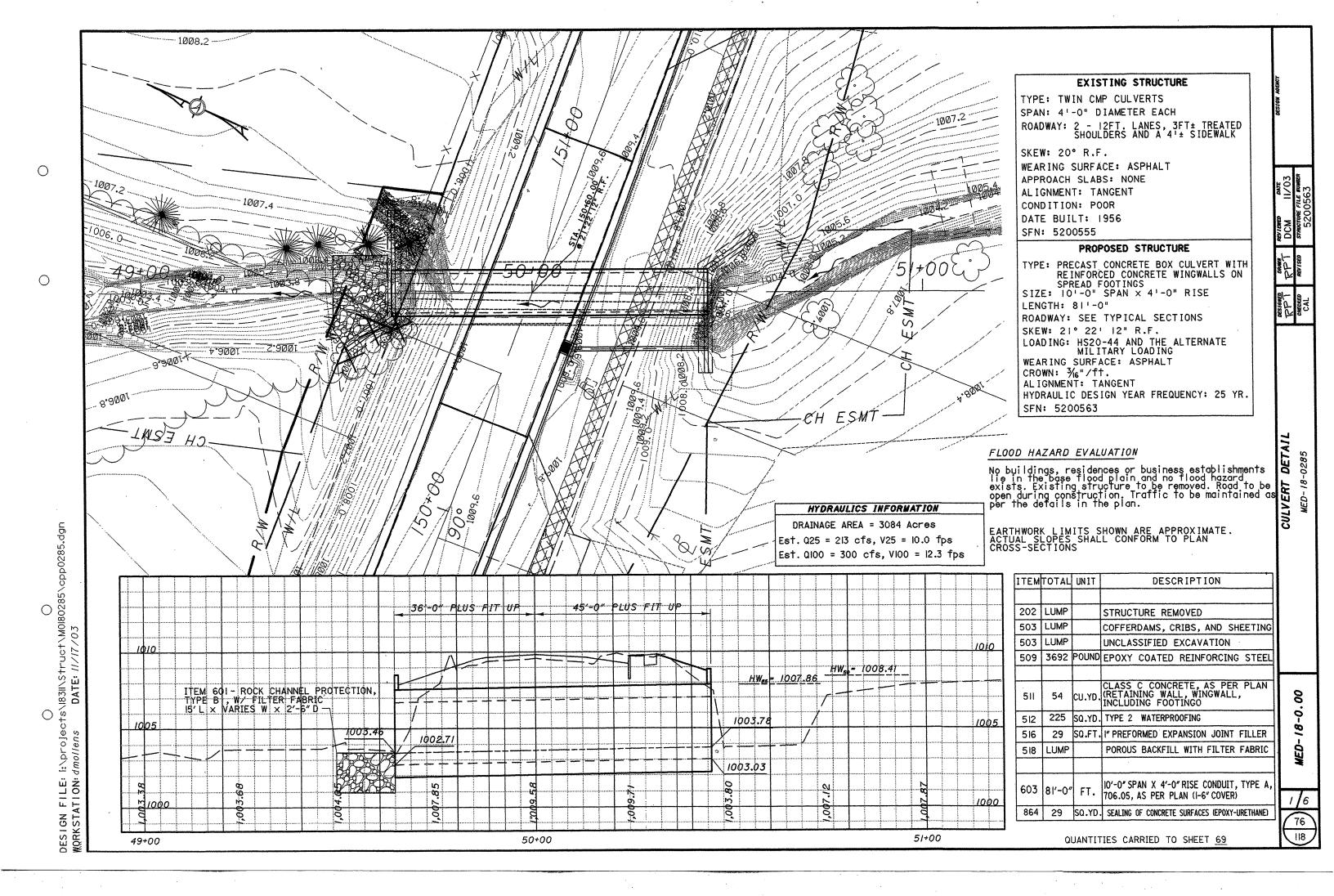
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ESTIMATED QUANTITIES

MED-18-0285



DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING.

HS20-44 AND THE ALTERNATE MILITARY LOADING.

DESIGN STRESSES:

CAST-IN-PLACE STRUCTURES
CONCRETE CLASS C - f'C = 4,000 psi SUBSTRUCTURE
REINFORCING STEEL - ASTM A615 OR A996, GRADE 60,
FY = 60,000 psi.

PRECAST STRUCTURES: FOR BOX AND PIPE CULVERTS SEE CMS SECTION 603.

REMOVAL OF EXISTING STRUCTURE:

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, THE EXISTING STRUCTURE SHALL BE REMOVED UPON RECEIVING PERMISSION FROM THE ENGINEER.

ITEM 503-UNCLASSIFIED EXCAVATION:

THIS ITEM INCLUDES ALL EXCAVATION NOT INCLUDED WITH ITEM 202 STRUCTURE REMOVED OR ITEM 603-10'X4' CONDUIT, TYPE A, 706.05.

ITEM 603- 10'X4' CONDUIT, TYPE A, 706.05, AS PER PLAN

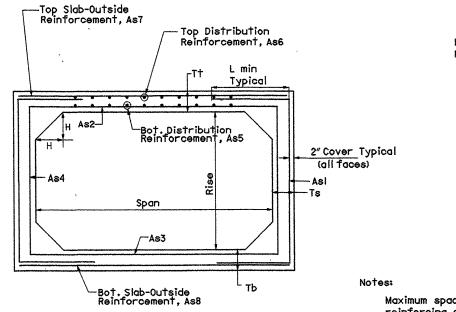
ALL REQUIREMENTS OF CMS 706.05 AND ASTM C1433 SHALL BE MET EXCEPT AS DETAILED BELOW.

ITEM 511- CLASS C CONCRETE, AS PER PLAN (RET WALL/ WINGWALL, INCL. FOOTING.)

THE COARSE AGGREGATE SHALL BE LIMESTONE.

ITEM 518, POROUS BACKFILL WITH FILTER FABRIC:

THE POROUS BACKFILL SHALL BE I'-6" THICK AND BE PLACED BEHIND THE WINGWALLS ONLY. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6". GEOTEXTILE FABRIC SHALL CONFORM WITH 712.09, TYPE A.



Loading: HS20 & ALT. MILITARY FWS = 60 psf

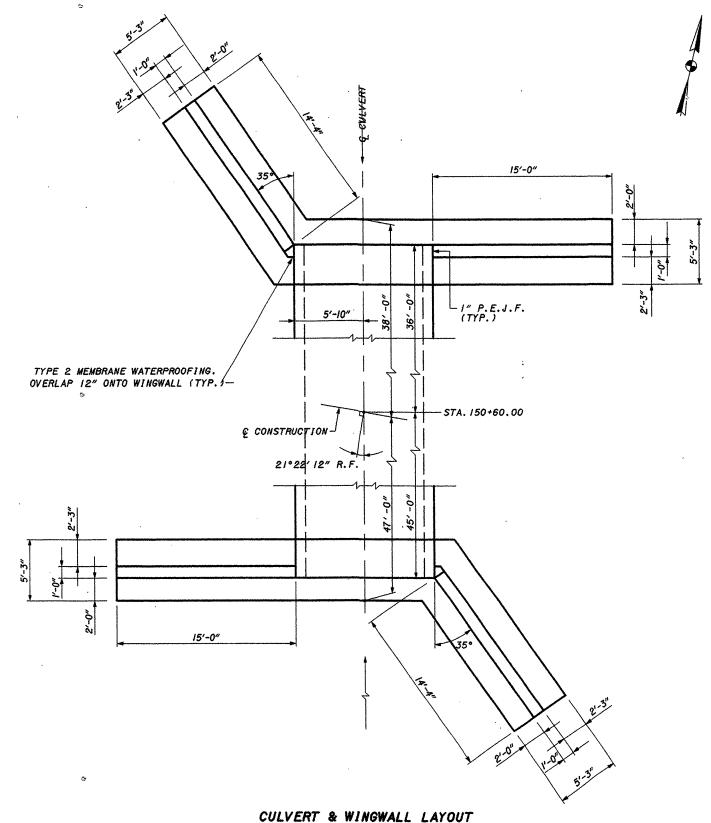
Span	10'
Rise	4'
T†	10"
ТЬ	10"
Ts	10"
Н	10"
Asl	0.52
As2	0.59
As3	0.48
As4	0.29
As5	0.29
As6	0.29
As7	0.29
As8	0.29
L min	43"

Maximum spacing of the circumferential reinforcing shall be 4".

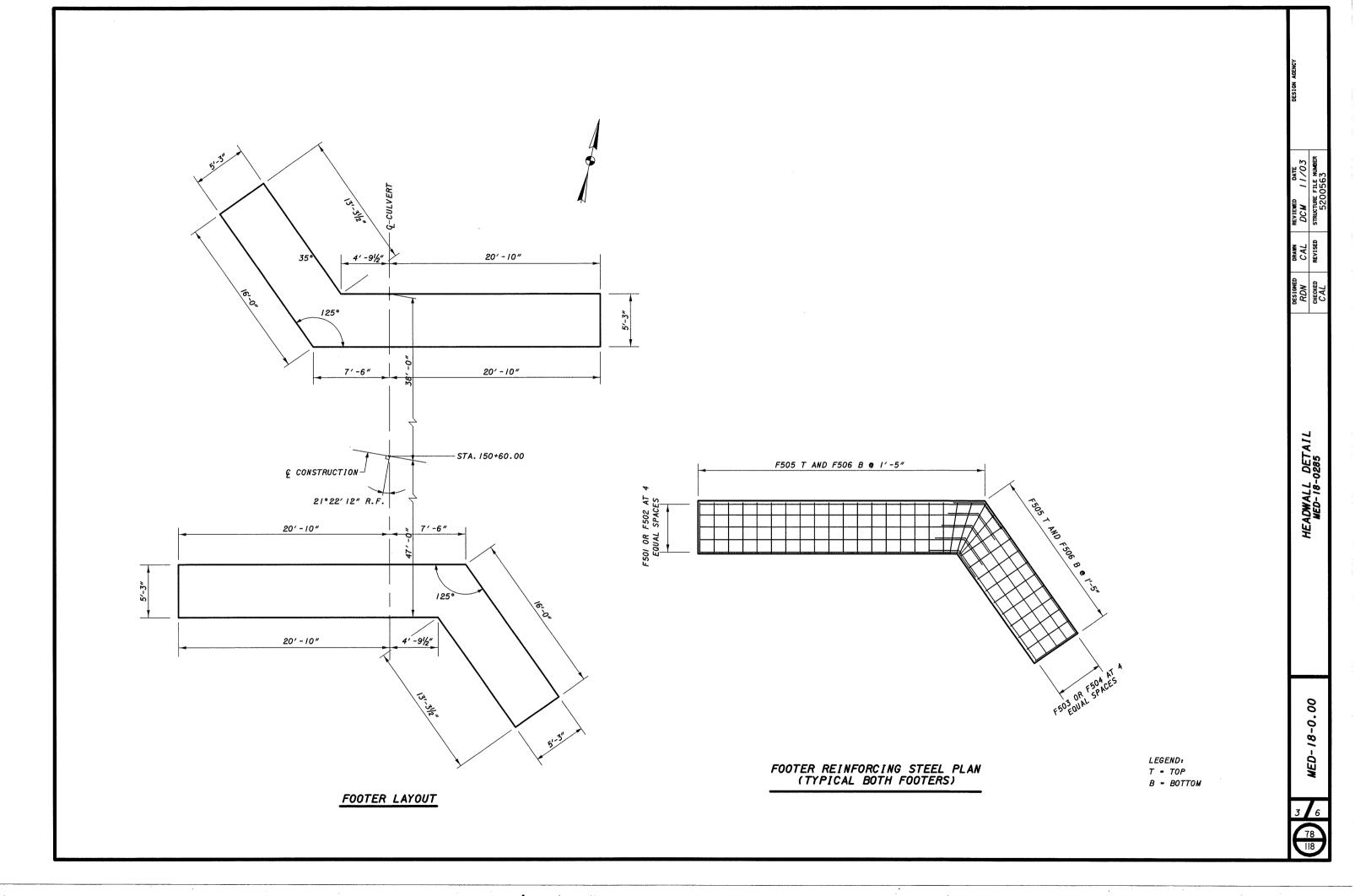
Minimum yield strength for reinforcing shall be 60 ksi.

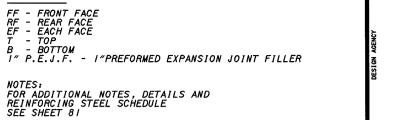
Minimum concrete compressive strength shall be 5000 psi.

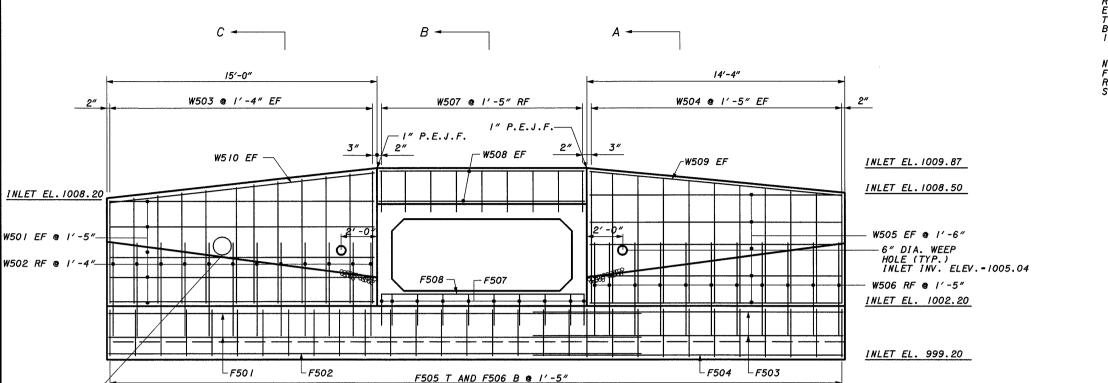
As min = 0.002 X Gross Section Area



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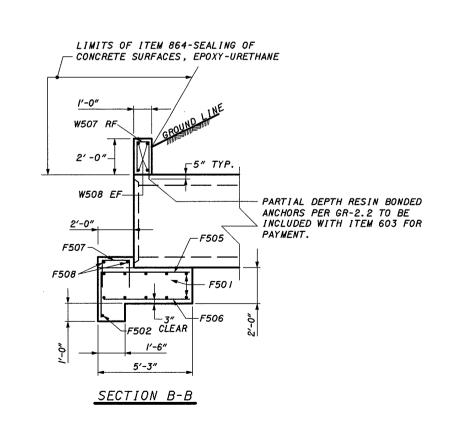


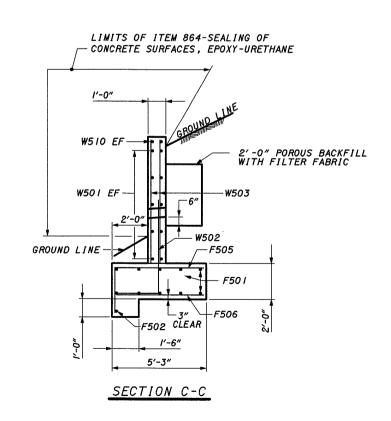




A -

INLET ELEVATION PLAN





LEGEND

LIMITS OF ITEM 864-SEALING OF
CONCRETE SURFACES, EPOXY-URETHANE

W509 EF

W504

W506

GROUND LINE

W506

F504

CLEAR

1'-6"

SECTION A-A

12" CONDUIT-

INLET INV. ELEV. - 1005.04

ADWALL DETAIL



FF - FRONT FACE
RF - REAR FACE
EF - EACH FACE
T - TOP
B - BOTTOM
I" P.E.J.F. - I"PREFORMED EXPANSION JOINT FILLER

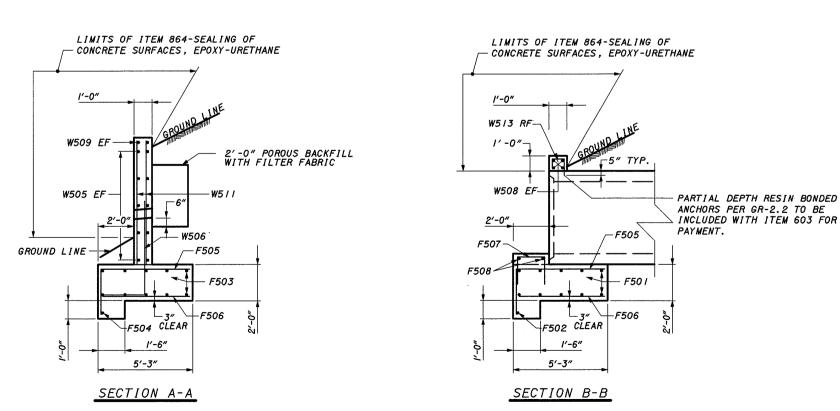
NOTES: FOR ADDITIONAL NOTES, DETAILS AND REINFORCING STEEL SCHEDULE SEE SHEETS 81

LEGEND

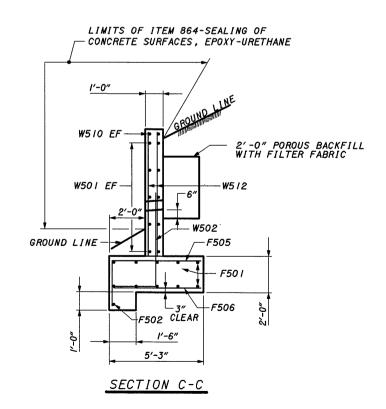
C -B -14'-4" 15'-0" W512 @ 1'-4" EF 2" ₩511 @ 1'-5" EF W513 @ 1'-5" RF W508 EF 2" W510 EF -W509 EF EL.1008.55 EL. 1007.88 EL.1007.88 W505 EF @ 1'-5" W501 EF @ 1'-5"-6" DIA. WEEP -HOLE (TYP.) INLET INV. EL. -1004.30 W502 RF @ 1'-4"-F508 r F507 ₩506 RF @ 1'-5" EL. 1001.88 EL. 998.88 LF501 F502 - F504 └*F*503 F505 T AND F506 B @ 1'-5"

OUTLET ELEVATION PLAN

A -



C ---



BOX CULVERT FOUNDATION

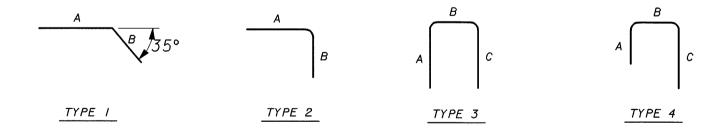
THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED.

EPOXY COATED REINFORCING STEEL LIST

		NUMBER			w51045			Ĺ	IME	1510	N S		
MARK	REAR	FWD	TOTAL	LENGTH	WEIGHT	TYPE	Α	В	С	D	E	R	INC.
F50 I			20	*	594	1	**	3′-0″					
F502			2	28′ -5″	59	1	25′-6″	3'-0"					
F503			20	***	348	1	***	3'-0"					
F504			2	16'-2"	34	1	13'-3"	3'-0"					
F505			64	7'-4"	490	2	4'-11"	2'-7"					
F506			64	4'-11"	328	STR							
F507			20	4'-3"	89	3	1'-8"	1'-2"	1'-8"				
F508			4	11'-4"	47	STR							
W50 /			20	14'-8"	306	STR							
W502			24	7'-9"	194	2	5'-3"	2'-8"					
W503			24	8	162	STR							
W504			22	<i>\$ \$</i>	152	STR							
W505		 	10	14'-0"	146	STR							
W506			22	7'-9"	178	2	5'-3"	2'-8"					
W507			9	4'-4"	41	4	1'-8"	8"	2'-3"				
W508			8	11'-4"	95	STR							
W509			4	14'-1"	59	STR							
W5 10			4	14'-8"	61	STR							
W5 / /			22	S S S	/50	STR							:
W5/2			24	888	137	STR							
W5/3			9	2'-4"	22	4	8"	8"	1'-3"				
				TOTAL	+3692								

+ QUANTITY CARRIED TO SHEET 76



BENDING DIAGRAMS

- * VARIES FROM 28'-5" TO 31'-0" AT 73/" INCREMENTS
- ** VARIES FROM 25'-6" TO 28'-1" AT 73/2" INCREMENTS
- *** VARIES FROM 16'-2" TO 18'-8" AT 71/2" INCREMENTS
- **** VARIES FROM 13'-3" TO 15'-9" AT 71/2" INCREMENTS
- * VARIES FROM 5'-8" TO 7'-3" AT 134" INCREMENTS
- ## VARIES FROM 6'-0" TO 7'-3" AT 11/2" INCREMENTS
- ### VARIES FROM 5'-8" TO 6'-3" AT 3/ INCREMENTS

HEADWALL DETAIL WED-18-0285

GENERAL SUMMARY

=	T .==. 4			OLIANITITY
LINE	ITEM			QUANTITY

	202	CONCRETE BASE REMOVED	20.0.1/2	
	 	40' X 18'± / 9 =	80.0 YD²	
		TOTAL =	80.0 YD²	80 YD²
2	202	PAVEMENT REMOVED		
		40' X 18'± / 9 =	80.0 YD²	
		TOTAL =	80.0 YD²	80 YD²
3	204	SUBGRADE COMPACTION 33.0' X 40' / 9 =	146.67 YD²	******************
		TOTAL =	146.67 YD 2	147 YD 2
4	301	9º ASPHALT CONCRETE BASE, PG 64-22		
		30.67' X 40' X 0.375 / 27 = 31.33' X 40' X 0.375 / 27 =	17.04 YD ³	
		TOTAL =	34.45 YD ³	35 YD ³
				00 10
5	301	3% ASPHALT CONCRETE BASE, PG 64-22 (DRIVE STA 225+92.0 (CADD=731.9 S.F. X .39583')/27	WAYS)	
		STA 225+92.0 (CADD=751.9 S.F. X .39583')/27	= 10.75 TD	
		STA 226+60 (CADD=717.4 S.F. X .39583')/27	= 10.52 YD ³	
		TOTAL =	32.36 YD ³	33 YD3
6	304	6' AGGREGATE BASE		
		32.33' X 40' X 0.5 / 27 =	23.95 YD	
	ļ	TOTAL =	23.95 YD ³	24 YD³
	442	1/2' ASPHALT CONCRETE SURFACE COURSE, 12.5 mm,	5.56 YD3	
		TOTAL =	5.56 YD ³	6 YD 3
				0 10
8	442	X ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 r	nm, TYPE A (448) 4.85 YD ³	
	 		4.85 YD	
		TOTAL =	4.85 YD ³	5 YD³
9	448	1/2' ASPHALT CONCRETE SURFACE COURSE, TYPE I. PG 6	4-22 (DRIVEWAYS)	- W
		STA 225+92.0 (CADD=731.9 S.F. X .125')/27	= 3.39 YD ³	
		STA 226+12 (CADD=757.7 S.F. X .125')/27	= 3.51 YD 3	
		STA 226+60 (CADD=717.4 S.F. X .1251)/27 TOTAL =	= 3.32 YD ³ IO.22 YD ³	II YD³
			10.22 10	וו_וע
10	407	TACK COAT	10.07.041	
	ļ	(30.0' X 40') / 9 X 0.08 GAL/SY =	IO.67 GAL	
		TOTAL =	10.67 GAL	II GAL
11	407	TACK COAT FOR INTERMEDIATE COURSE		····
		(30.0' X 40') / 9 X 0.03 GAL/SY =	4.0 GAL	
		TOTAL =	4.0 GAL	4 GAL
12	601	ROCK CHANNEL PROTECTION, TYPE B WITH FABR	8.49 YD3	
		TOTAL =	8.49 YD 3	9 YD³
······	-			······································
	 			

		<u></u>	HEET	NU	MBEI	3		ITEM				REFERENCE
57	67	82	84	91	92		ITEM	EXT.	QUANT.	UNIT	DESCRIPTION	SHEET NO.
											ROADWAY	
LUMP							201	11000	LUMP		CLEARING AND GRUBBING	
		80			LUMP		202 202	11000	LUMP 80	SQ.YD.	STRUCTURE REMOVED	
		80					202	23000 23900	80	SQ.YD.	PAVEMENT REMOVED CONCRETE BASE REMOVED	
			308				202	35100	308	FT.	PIPE REMOVED, 24' AND UNDER	
								33100		· · · · · · · · · · · · · · · · · · ·	THE NEW YEAR OLDER	
				520			203	10000	520	CU.YD.	EXCAVATION	
		147		675			203	20000	675	CU.YD.	EMBANKMENT	
		147				4	204 604	10000 38500	147 4	SQ.YD. EACH	SUBGRADE COMPACTION MONUMENT ASSEMBLY	
									-		EROSION CONTROL	
		9					601	32104	9	CU.YD.	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER	
605				EAFS			659	00300	605	CU.YD.	TOPSOIL	
.74				5453			659 659	10000 20000	5453 .74	SQ.YD. TON	SEEDING AND MULCHING COMMERCIAL FERTILIZER	
I.I3 30							659	31000	1.13	ACRE	LIME	
30							659	35000	30	M GAL.	WATER	
											DRAINAGE	
					LUMP		503 503	11100 21300	LUMP LUMP		COFFERDAMS, CRIBS AND SHEETING UNCLASSIFIED EXCAVATION	
					2552		509	10000	2552	POUND	EPOXY COATED REINFORCING STEEL	
					35		511	46201	35	CU.YD.	CLASS C CONCRETE, AS PER PLAN (RET WALL/WINGWALL-INCL.FTG.)	93
					220		512	33000	220	SQ.YD.	TYPE 2 WATERPROOFING	
					24 LUMP		516 518	13600 21230	24 LUMP	SQ.FT.	I" PREFORMED EXPANSION JOINT FILLER POROUS BACKFILL WITH FILTER FABRIC	
			286				603	04900	286	FT.	CONDUIT, TYPE D	
			200		92		603	94800	92	FT.	8' X 4' CONDUIT, TYPE A, 706.05, (I'-6" COVER)	
			I		28		604 864	04500 10100	28	EACH SQ.YD.	CATCH BASIN, NO. 2-2B SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
											PAVEMENT	
			· · · · · ·									
		35 33					301	46000 48000	35 33	CU.YD.	ASPHALT CONCRETE BASE, PG 64-22 ASPHALT CONCRETE BASE, PG 64-22 (DRIVEWAYS)	
		24					304	20000	24	CU.YD.	AGGREGATE BASE	
		11					407 407	10000 14000	II 4	GAL. GAL.	TACK COAT TACK COAT FOR INTERMEDIATE COURSE	
		6					442	10000	6	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
		5 II					442 448	20100 48020	5	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448) ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 (DRIVEWAYS)	
							· · · ·		"	VO.10.		
											MAINTENANCE OF TRAFFIC	
	l 194						614	12336	l 194		WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	
	194						614 614	12800 13302	194	EACH EACH	WORK ZONE RAISED PAVEMENT MARKER BARRIER REFLECTOR, TYPE B2	
	17						614	13360	17	EACH	OBJECT MARKER, TWO WAY	
	. l2						614	21000	.12	MILE	WORK ZONE CENTER LINE, CLASS ((SOLID DOUBLE)	
	.04 48						614 614	22000 26000	.04 48	MILE FT.	WORK ZONE EDGE LINE, CLASS I (WHITE) WORK ZONE STOP LINE, CLASS I	
										1.14		
	LUMP 430						615 615	10000 25000	LUMP 430	SQ.YD.	ROADS FOR MAINTAINING TRAFFIC PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
	750						622	40020	750	FT.	PORTABLE CONCRETE BARRIER, 32"	
			L		L	l	L					

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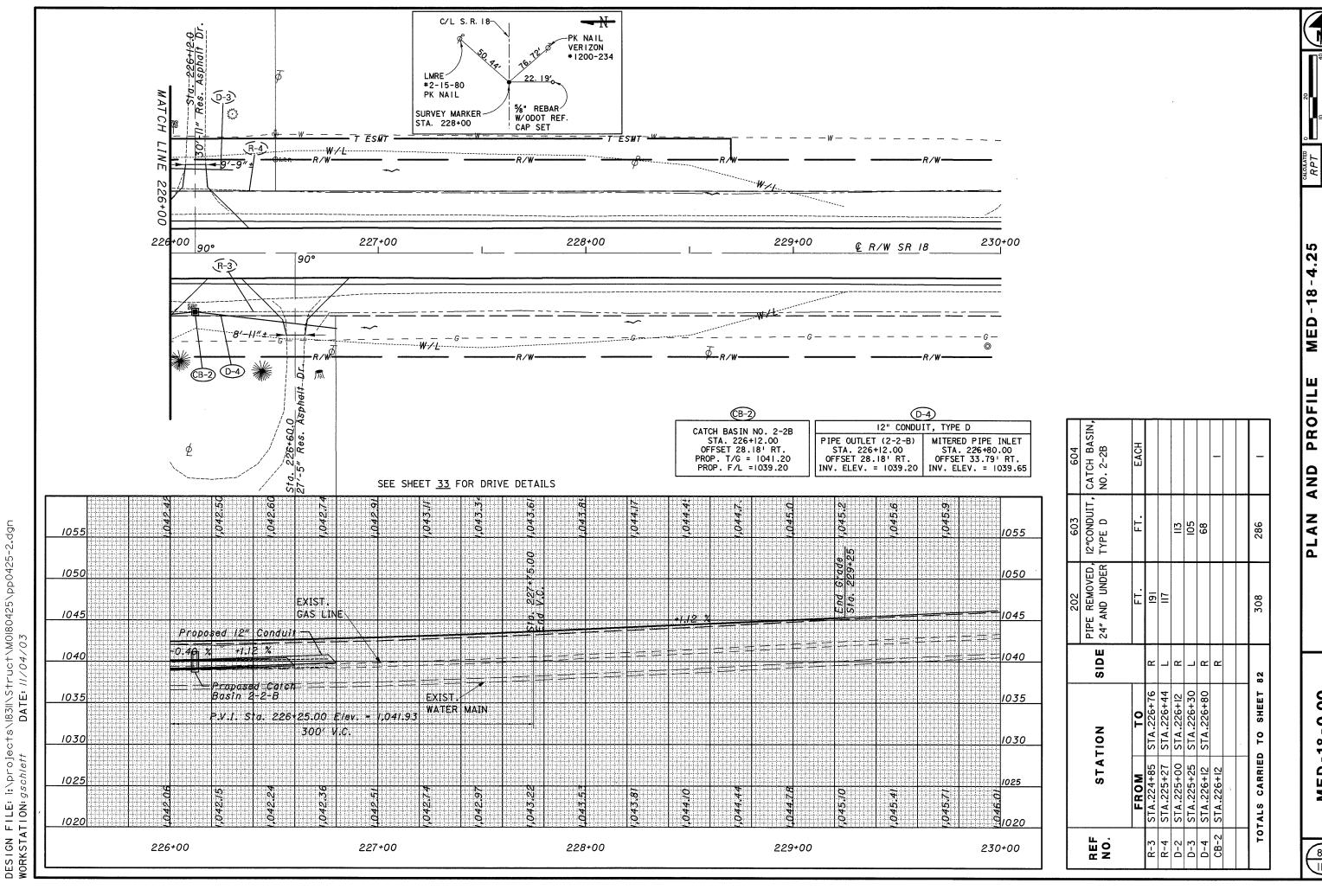
CALCULATIONS

SUMMARY

CULVERT

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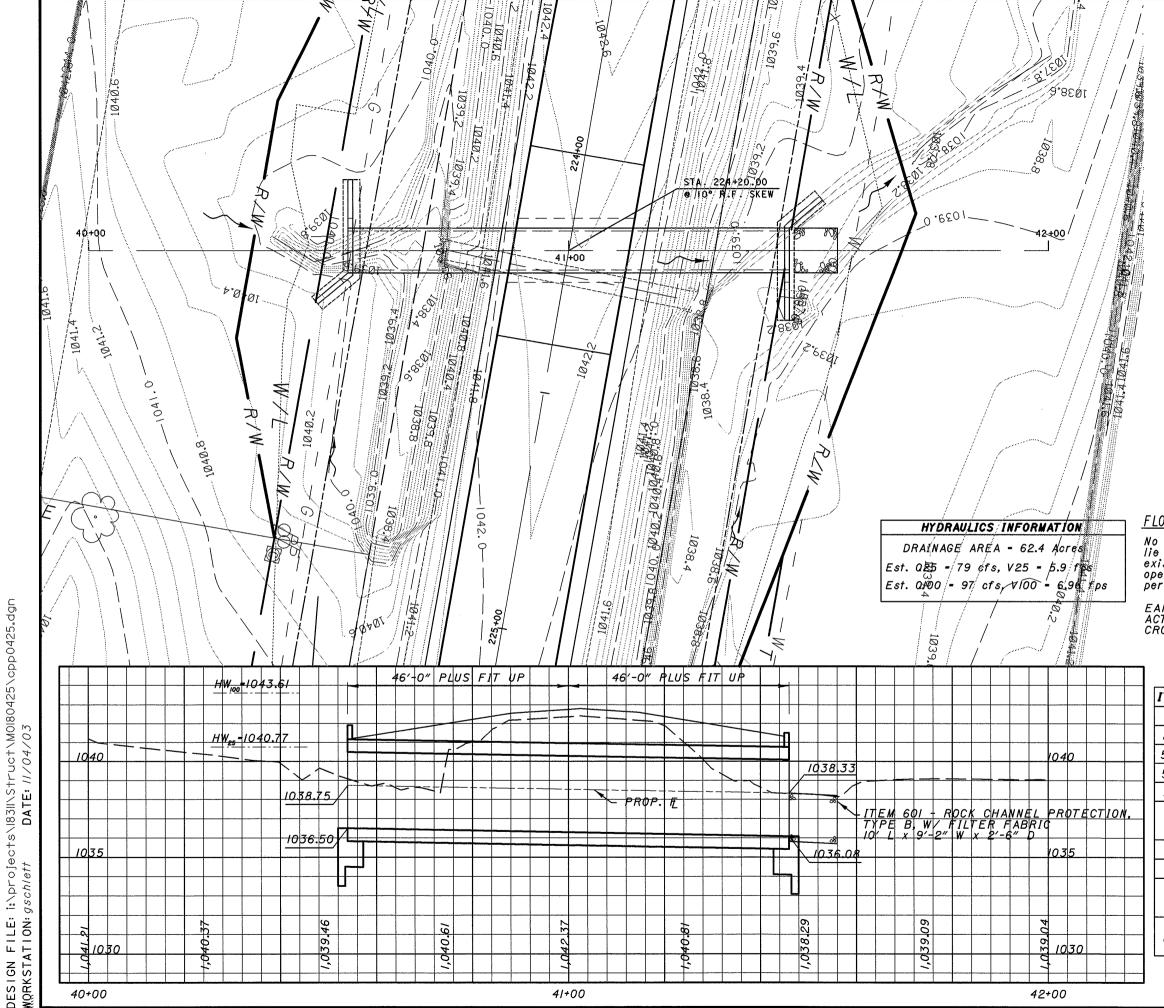
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DESIGN

EXISTING STRUCTURE

TYPE: REINFORCED CONCRETE BOX CULVERT

SPAN: 4'-0" SPAN x 2'-0" RISE

ROADWAY: 2 - 12FT. LANES, 3FT± PAVED SHOULDERS AND 3FT± AGGREAGATE SHOULDERS

SKEW: NONE

WEARING SURFACE: ASPHALT

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CONDITION: POOR

DATE BUILT: 1942

PROPOSED STRUCTURE

TYPE: PRECAST CONCRETE BOX CULVERT WITH REINFORCED CONCRETE WINGWALLS ON SPREAD FOOTINGS

SIZE: 8'-0" SPAN \times 4'-0" RISE

LENGTH: 92'-0"

ROADWAY: 2 - 12FT. LANES, 10FT. GRADED SHOULDERS

SKEW: 10° R.F.

LOADING: HS20-44 AND THE ALTERNATE MILITARY LOADING

WEARING SURFACE: ASPHALT

CROWN: 3/6"/ft. ALIGNMENT: TANGENT

HYDRAULIC DESIGN YEAR FREQUENCY: 25 YR.

FLOOD HAZARD EVALUATION

No buildings, residences or business establishments lie in the base flood plain and no flood hazard exists. Existing structure to be removed. Road to be open during construction. Traffic to be maintained as per the details in the plan.

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS-SECTIONS

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION
202	LUMP		STRUCTURE REMOVED
503	LUMP		COFFERDAMS, CRIBS, AND SHEETING
503	LUMP		UNCLASSIFIED EXCAVATION
509	2552	POUND	EPOXY COATED REINFORCING STEEL
511 35	011 70	CLASS C CONCRETE, AS PER PLAN (RETAINING	
ווכ	35	CU. YD.	WALL, WINGWALL, INCLUDING FOOTING)
512	220	SQ. YD.	TYPE 2 WATERPROOFING
516	24	SQ. FT.	I" PREFORMED EXPANSION JOINT FILLER
603	92'-0"	FT.	8'-0" SPAN X 4'-0" RISE CONDUIT, TYPE A, 706.05
864	28	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

QUANTITIES ARE CARRIED TO SHEET 82.

STRUCTURE GENERAL NOTES

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS20-44 AND THE ALTERNATE MILITARY LOADING.

DESIGN STRESSES:

CAST-IN-PLACE STRUCTURES
CONCRETE CLASS C - f'c = 4,000 psi SUBSTRUCTURE
REINFORCING STEEL - ASTM A615 OR A996, GRADE 60,
Fy = 60,000 psi.

PRECAST STRUCTURES: FOR BOX AND PIPE CULVERTS SEE CMS SECTION 603.

REMOVAL OF EXISTING STRUCTURE:

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, THE EXISTING STRUCTURE SHALL BE REMOVED UPON RECEIVING PERMISSION FROM THE ENGINEER.

ITEM 503-UNCLASSIFIED EXCAVATION:

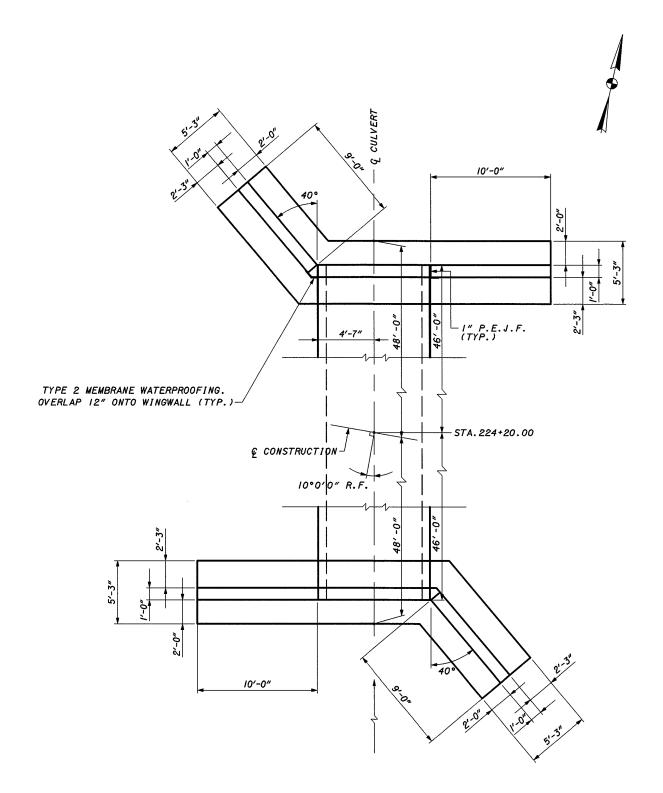
THIS ITEM INCLUDES ALL EXCAVATION NOT INCLUDED WITH ITEM 202 STRUCTURE REMOVED OR ITEM 603-8'X4' CONDUIT, TYPE A, 706.05, AS PER PLAN.

ITEM 603- 8'X4' CONDUIT, TYPE A, 706.05, AS PER PLAN

THE PRECAST REINFORCED CONCRETE BOX SECTIONS SHALL MEET ALL REQUIREMENTS OF CMS 706.05 AND ASTM C1433 WITH AN INTERSTATE LIVE LOAD

ITEM 511- CLASS C CONCRETE, AS PER PLAN (RET WALL/ WINGWALL, INCL. FOOTING.)

THE COARSE AGGREGATE SHALL BE LIMESTONE.

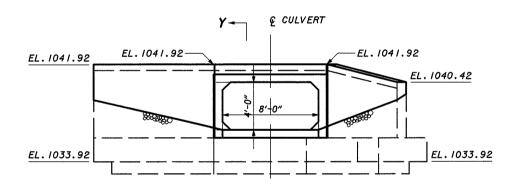


CULVERT & WINGWALL LAYOUT



OUTLET ELEVATION

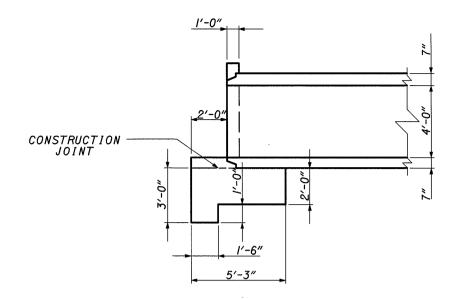
FLOWLINE ELEVATION: EL. 1036.08



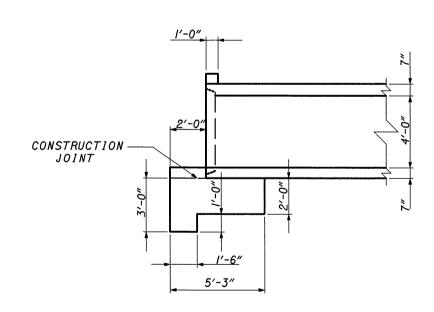
γ-

INLET ELEVATION

FLOWLINE ELEVATION: EL. 1036.50



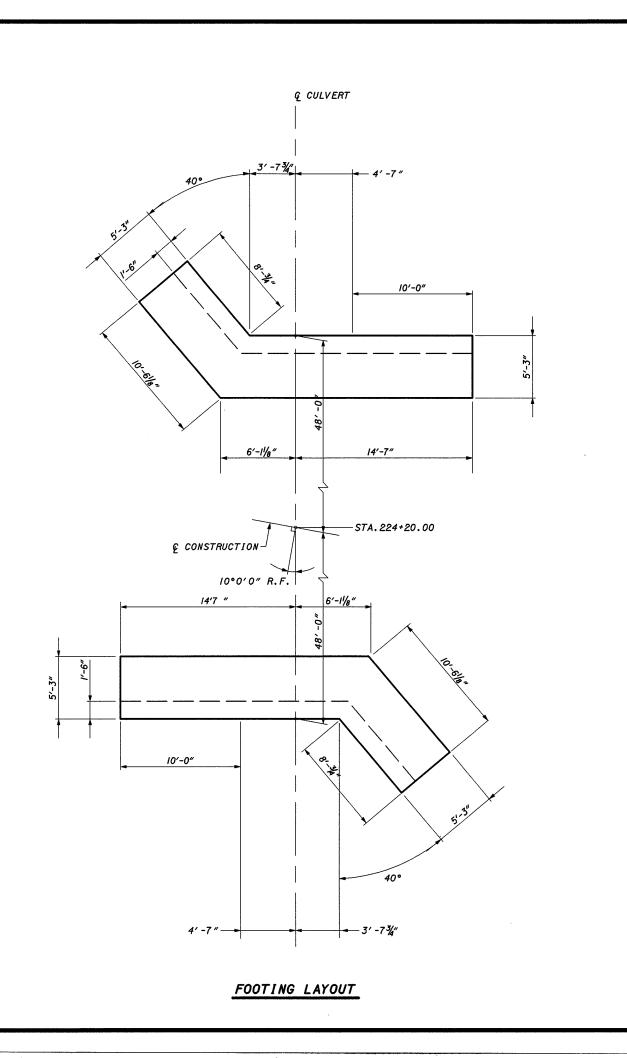
SECTION X-X



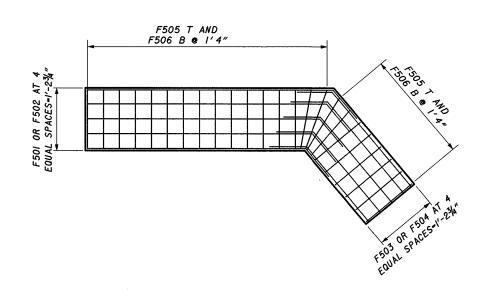
SECTION Y-Y

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94







FOOTER REINFORCING STEEL PLAN (TYPICAL BOTH FOOTERS)

LEGEND: T = TOP

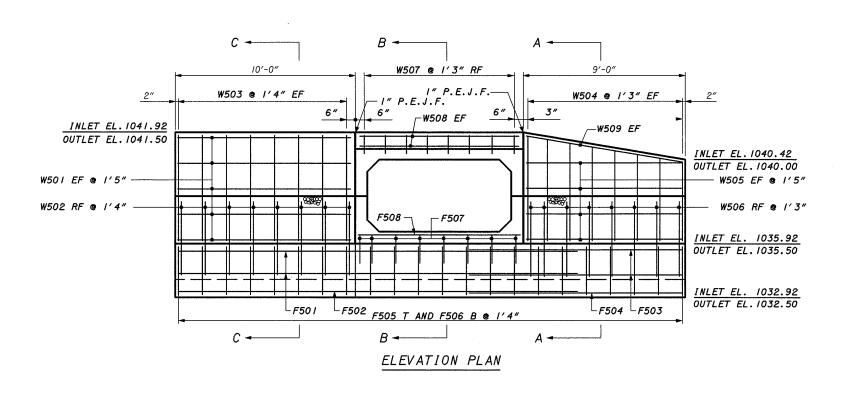
B - BOTTOM



LEGEND

FF - FRONT FACE
RF - REAR FACE
EF - EACH FACE
T - TOP
B - BOTTOM
I" P.E.J.F. - I"PREFORMED EXPANSION JOINT FILLER

FOR ADDITIONAL NOTES, DETAILS AND REINFORCING STEEL SCHEDULE SEE SHEETS 93 AND 97.



LIMITS OF ITEM 864-SEALING OF — CONCRETE SURFACES, EPOXY-URETHANE

F504 CLEAR

5'-3"

SECTION A-A

-W504

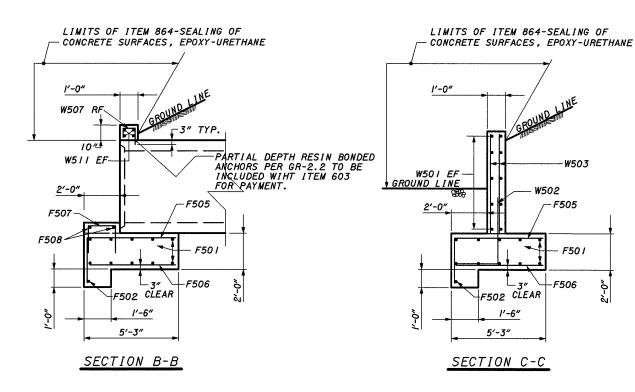
F503

l'-0"

W509 EF

W505 EF-

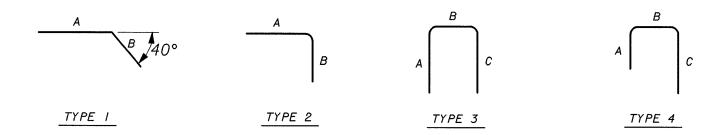
2'-0"



EPOXY COATED REINFORCING STEEL LIST

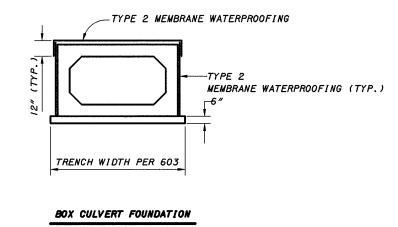
4404		NUMBER		, cuotu	WELOUT	TVOE		L	IME	V S I O	NS		
MARK	REAR	FWD	TOTAL	LENGTH	WEIGHT	TYPE	Α	В	С	D	E	R	INC.
F50 I			20	*	462	1	**	3'-0"					
F502			2	21'-0"	44	1	18'-1"	3'-0"					
F503			20	***	250	1	****	3'-0"					
F504			2	10'-10"	23	1	7'-11"	3'-0"					
F505			48	7'-4"	367	2	4'-11"	2'-7"					
F506			48	4'-11"	236	STR							
F507			16	3'-11"	65	3	1'-6"	1'-2"	1'-6"				
F508			4	8'-10"	37	STR							
W50 I			20	9′-8″	202	STR							
W502			16	6′-9″	113	2	4'-3"	2'-8"					
W503			32	5′-8″	189	STR							
W504			32	****	164	STR							
W505			16	8'-8"	145	STR							
W506			16	6'-9"	113	2	4'-3"	2'-8"					
W507			16	1'-10"	31	4	6"	8"	11"				
W508			8	8'-10"	74	STR							
W509			4	8'-9"	37	STR							
				TOTAL	+2552								

+ QUANTITY CARRIED TO SHEET 92



BENDING DIAGRAMS

*	<i>V AR I ES</i>	FROM	21'-0"	ΤO	23' -4"	AT	7"	INCREMENTS
**	<i>VARIES</i>	FROM	18'-1"	ΤO	20'-5"	AT	7″	INCREMENTS
***	VARIES	FROM	10'-10'	TO	13'-2	″ A7	7 /	INCREMENTS
****	VARIES	FROM	7'-11"	ΤO	10'-3"	ΑT	7″	INCREMENTS
****	<i>V AR I ES</i>	FROM	4'-2" 7	0 5	5'-8" A	T 21/2	/2" I	NCREMENTS



THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, W601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED.

BRIDGE	NUMBER	MED-18-0172	SFN	5200482
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ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98500	4	CU. YD.	REMOVAL MISC .: PORTION OF APPROACH SLAB
509	10000	225	POUND	EPOXY COATED REINFORCING STEEL
511	71100	4	CU. YD.	CONCRETE MISC .: APPROACH SLAB REPAIR
SPECIAL	51822300	59	FT.	STEEL DRIP STRIP
614	12800	300	EACH	WORK ZONE RAISED PAVEMENT MARKER
614	13202	16	EACH	BARRIER REFLECTOR, TYPE A2
614	13302	14	EACH	BARRIER REFLECTOR, TYPE B2
614	13360	12	EACH	OBJECT MARKER, TWO WAY
CIA	21000	.06	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)
614 614	22000	.04	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)
614	26000	24	FT.	WORK ZONE STOP LINE, CLASS I
615	25001	367	SQ. YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
622	40020	300	FT.	PORTABLE CONCRETE BARRIER, 32"
622	40040	140	FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED (UNANCHORED)
848	10001	132	SQ. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (21/4INCH THICK)
848	20000	132	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION
848	30001	3	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	50000	4	SQ. YD.	HAND CHIPPING
	50100	LUMP		TEST SLAB
848 848	50200	LOIVII	CU. YD.	FULL - DEPTH REPAIR
848	50320	132	SQ. YD.	EXISTING CONCRETE OVERLAY REMOVED (1/4INCH NOMINAL THICKNESS)
848	50340	7	SQ. YD.	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY

BRIDGE NUMBER MED-18-0657	SFN	5200636
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ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
SPECIAL	51822300	185	FT.	STEEL DRIP STRIP
614	12800	380	EACH	WORK ZONE RAISED PAVEMENT MARKER
614	13202	15	EACH	BARRIER REFLECTOR, TYPE A2
614	21000	.06	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)
614	22000	.04	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)
614	26000	24	FT.	WORK ZONE STOP LINE, CLASS I
615	25001	249	SQ. YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
848	10001	389	SQ. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (21/4INCH THICK)
848	20000	389	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION
848	30001	7	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	50000	12	SQ. YD.	HAND CHIPPING
848	50100	LUMP		TEST SLAB
848	50200	I	CU. YD.	FULL - DEPTH REPAIR
848	50320	389	SQ. YD.	EXISTING CONCRETE OVERLAY REMOVED (1/4INCH NOMINAL THICKNESS)
848	50340	19	SQ. YD.	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY

ME

BRIDGE NUMBER MED-18-0685 SFN 5200660

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
202	98400	69	SQ. FT.	REMOVAL MISC.: APPROACH SLAB PARTIAL DEPTH
511	71100	1	CU. YD.	CONCRETE MISC.: APPROACH SLAB PARTIAL DEPTH REPAIR
841	10000	680	SQ. YD.	TREATING OF CONCRETE SURFACES WITH SRS
864	10100	165	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

STRUCTURE

REFERENCES SHALL BE MADE TO STANDARD DRAWINGS:

BP-3.I	DATED	7/28/00
DS-I-92	DATED	7/18/03
PCB-91	DATED	7/19/02
RM-4.2	DATED	4/18/03
MT-96.10	DATED	4/19/02
MT-96.II	DATED	4/19/02
MT-96.20	DATED	4/19/02
MT-96.25	DATED	4/20/01
MT-101.20	DATED	10/18/02
MT-101.70	DATED	10/18/02

REFERENCES SHALL BE MADE TO SUPPLEMENTAL SPECIFICATIONS:

841	DATED	4/19/02
848	DATED	2/08/02
864	DATED	7/11/00

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATION AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.02. THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OHIO.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED ON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

DESIGN DATA:

CONCRETE CLASS FS - COMPRESSIVE STRENGTH 4500 PSI

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60

Fy = 60,000 psi.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, AND THE ODOT BRIDGE DESIGN MANUAL.

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES:

SPECIAL CARE SHALL BE TAKEN, WHEN PLACING THE ASPHALT CONCRETE FEATHERING TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK OR APPROACH SLAB. THE CONTRACTOR'S ATTENTION IS CALLED TO SECTION 401.19 OF THE CMS AND TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

STRUCTURE PROTECTION:

THE EXPANSION JOINT SEAL AT THE ENDS OF BRIDGES SHALL BE PROTECTED FROM ALL SEALERS. NO SEALERS SHALL BE ALLOWED TO COME INTO CONTACT WITH THE EXPANSION JOINT SEAL. IF ANY SEALER COMES INTO CONTACT WITH THE EXPANSION JOINT SEAL THE CONTRACTOR SHALL REPLACE THE EXPANSION JOINT TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

ITEM 202 - REMOVAL MISC .: PORTION OF APPROACH SLAB:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING UNSOUND PORTION OF THE APPROACH SLAB AT THE LOCATIONS INDICATED IN THE PLAN.

THE END OF THE REMOVAL AREA SHALL BE SAW CUT I" DEEP.

CARE SHALL BE TAKEN NOT TO DAMAGE THE PORTION OF THE APPROACH SLAB TO REMAIN.

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

ITEM 202 - REMOVAL MISC.: APPROACH SLAB PARTIAL DEPTH:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING UNSOUND PORTION OF THE APPROACH SLAB FOR PARTIAL DEPTH REPAIR AT THE LOCATIONS INDICATED IN THE PLAN.

THE PERIMETER OF THE REMOVAL AREA SHALL BE SAW CUT I'DEEP.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 202 - REMOVAL MISC.: APPROACH SLAB PARTIAL DEPTH WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 511 - CONCRETE MISC .: APPROACH SLAB REPAIR:

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

THE CONCRETE SHALL BE CLASS FS AND MEET THE REQUIREMENTS
OF CMS 499 EXCEPT THAT A NON CALCIUM CHLORIDE ACCELERATING
ADMIXTURE AND LIMESTONE FOR THE COARSE AGGREGATE SHALL BE USED.
ALL EXISTING SURFACES TO WHICH THE CONCRETE IS TO BOND INCLUDING
REINFORCING STEEL SHALL BE CLEANED BY ABRASIVE BLASTING. THESE
SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, AND OTHER
CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

TYPE A WATERPROOFING (CMS 512) SHALL BE APPLIED BETWEEN THE PROPOSED CONCRETE AND THE EXISTING APPROACH SLAB.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR ITEM 511- CONCRETE MISC.: APPROACH SLAB REPAIR WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 511 - CONCRETE MISC.: APPROACH SLAB PARTIAL DEPTH REPAIR:

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

THE CONCRETE SHALL BE CLASS FS AND MEET THE REQUIREMENTS

OF CMS 499 EXCEPT THAT A NON CALCIUM CHLORIDE ACCELERATING

ADMIXTURE AND LIMESTONE FOR THE COARSE AGGREGATE SHALL BE USED.

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

A BONDING GROUT SHALL BE APPLIED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. THE BONDING GROUT SHALL CONSIST OF EQUAL PARTS BY VOLUME OF PORTLAND CEMENT AND SAND, MIXED WITH SUFFICIENT WATER TO FORM A STIFF SLURRY. THE CONSISTENCY OF THIS SLURRY SHALL BE SUCH THAT IT CAN BE APPLIED WITH A STIFF BRUSH OR BROOM TO THE EXISTING SURFACE IN A THIN, UNIFORM COATING. THE COATING OF GROUT, \$\int_{16}\$ INCH TO \$\int_{8}\$ INCH THICK, SHALL BE SCRUBBED ONTO THE DRY SURFACE IMMEDIATELY BEFORE PLACING THE CONCRETE.

CARE SHALL BE EXERCISED TO ENSURE THAT NO EXCESS GROUT IS PERMITTED TO COLLECT IN LOW SPOTS. IN NO CASE SHALL THE GROUT BE PERMITTED TO DRY BEFORE PLACING THE NEW CONCRETE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR ITEM 5II- CONCRETE MISC.: APPROACH SLAB PARTIAL DEPTH REPAIR WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

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

THIS ITEM SHALL BE AS CMS 615, EXCEPT THAT THE PAVEMENT SHALL BE LEFT IN PLACE.

2'-0" OF THE EXISTING PAVED BERM SHALL BE REMOVED FOR THE LENGTH OF THE PROPOSED PAVEMENT. THE REMOVAL LINE SHALL BE SAW CUT.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 841 - TREATING OF CONCRETE SURFACES WITH SRS:

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

SEE THE SUPPLEMENTAL SPECIFICATIONS FOR APPLICATION RATES, MATERIALS REQUIRED, AND APPLICATION PROCEDURES.

THIS TREATMENT CONSISTS OF TWO (2) SEPARATE APPLICATIONS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 841 - TREATING OF CONCRETE SURFACES WITH SRS, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE TWO SEPARATE APPLICATION WORK.

ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2 1/4 INCH THICK):

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

THE COARSE AGGREGATE SHALL BE LIMESTONE.

THE SURFACE FINISH REQUIREMENTS BE AS PER CMS 511.19 AND 511.20 IN LIEU OF THAT WHICH IS SPECIFIED IN SUPPLEMENTAL SPECIFICATION 848.

SEE THE SUPPLEMENTAL SPECIFICATION FOR DETAILS.

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.

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ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN:

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

THE COARSE AGGREGATE SHALL BE LIMESTONE.

SEE THE SUPPLEMENTAL SPECIFICATION FOR DETAILS.

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

ROADWAY DATA

EXISTING

EXISTING

EXISTING

EXISTING

PART	ROUTE, BRIDGE NO.	STRUCTURE TYPE	(BRIDGE LIMITS)	WIDTH	DECK AREA	SKEW	EXISTING WEARING SURFACE	PAVEMENT WIDTH	APPROACH SLAB WIDTH	APPROACH SLAB LENGTH
			FT.	FT.	SQ.YD.			FT.	FT.	FT.
A	* MED-18-0172	SINGLE-SPAN CONCRETE SLAB	26.88	44.0	131.4	30° L.F.	CONCRETE	30	24	15
A	** MED-18-0193	SINGLE-SPAN CONCRETE SLAB	22.88	44.0	111.9	30° R.F.	ASPHALT	30	24	15
A	*** MED-I8-0242	SINGLE-SPAN CONCRETE SLAB	22.88	39.7	100.9	30° L.F.	ASPHALT	30	41	15
A	*** MED-18-0285	TWIN CORR. METAL PIPES				20° R.F.	ASPHALT	28		
A	+ MED-18-0330	TWIN CORR. METAL PIPES				40° R.F.	ASPHALT	30		
A	+ MED-18-0570	TRIPLE CORR. METAL PIPES				45° R.F.	ASPHALT	30		
A	++ MED-18-0657	3- SPAN CONCRETE SLAB	79.5	44.0	388.7	0°	CONCRETE	30	24	15
A	+++ MED-18-0685	3- SPAN STEEL BEAM	132.0	34.0	498.7	0°	CONCRETE	30	35	25
				V						
(5	LANE APPROACH SLABS. SEE DETAILS IN THE PLA ND PLANING QUANTITIES	N FOR STRUCTURE			FOR GUARDRAI	IL WORK				

BRIDGE

BRIDGE DECK DATA

LENGTH

- ** PLANE BRIDGE DECK AND APPROACH SLABS. PLANE AND PAVE EXISTING WIDTH ONLY.
 (NO STRUCTURE WORK. SEE ROADWAY PLANS FOR GUARDRAIL WORK AND PLANING QUANTITIES)
- *** PLANE BRIDGE DECK AND APPROACH SLABS 31/4" DEEP. ONLY PLACE THE STANDARD 21/4" OF ASPHALT BACK ON . (NO STRUCTURE WORK. SEE ROADWAY PLANS FOR GUARDRAIL WORK AND PLANING QUANTITIES)
- **** THE EXISTING STRUCTURE WILL BE REPLACED IN THIS PLAN.
 (SEE DETAILS ON SHEETS 70 81. SEE ROADWAY PLANS FOR PLANING QUANTITIES)
 - + NO STRUCTURE WORK. (SEE ROADWAY PLANS FOR PLANING QUANTITIES)

COUNTY.

- ++ PLANE APPROACH SLABS. OMIT RESURFACING ON THE BRIDGE DECK, BUTT JOINT AT THE DECK.

 (SEE DETAILS IN THE PLAN FOR STRUCTURE WORK. SEE ROADWAY PLANS FOR GUARDRAIL WORK AND PLANING QUANTITIES)
- +++ WHEN PLANING BOTH APPROACHES TO THIS STRUCTURE, FOR 300 FT. EACH APPROACH PLANE 3" DEEP IN THE MIDDLE.
 BUTT JOINT AT THE APPROACH SLABS. ONLY PLACE THE STANDARD 21/4" BACK ON. OMIT RESURFACING ON THE BRIDGE
 DECK AND APPROACH SLABS. (SEE DETAILS IN THE PLAN FOR STRUCTURE WORK. SEE ROADWAY PLANS FOR
 GUARDRAIL WORK AND PLANING QUANTITIES)

ROADWAY DATA

PART	COUNTY, ROUTE, BRIDGE NO.	STRUCTURE TYPE	LENGTH (BRIDGE LIMITS)	WIDTH	BRIDGE DECK AREA	SKEW	EXISTING WEARING SURFACE	EXISTING PAVEMENT WIDTH	EXISTING APPROACH SLAB WIDTH	EXISTING APPROACH SLAB LENGTH
			FT.	FT.	SQ.YD.	***************************************		FT.	FT.	FT.
В	* MED-94-0751	SINGLE-SPAN CONCRETE SLAB	16	31.5	56.0	0°	CONCRETE	25		
В	* MED-94-0789	RAILROAD OVERPASS				8° L.F.	ASPHALT	25		
В	* MED-94-0810	SINGLE- SPAN CONCRETE BEAM	31.5	27.9	97.7	0°	CONCRETE	25		
В	** MED-94-0828	SINGLE-SPAN CONCRETE SLAB	21.67	32	77.0	30° L.F.	CONCRETE	25		
В	*** MED-94-0968	CONCRETE CULVERT	12	40	53.3	25° L.F.	ASPHALT	24		
·										B APPROACH SLAB LENGTH
							41			
* W	ORK SUSPENDED IN THIS	AREA. (NO STRUCTI	URE OR GUARDE	RAIL WORK)						

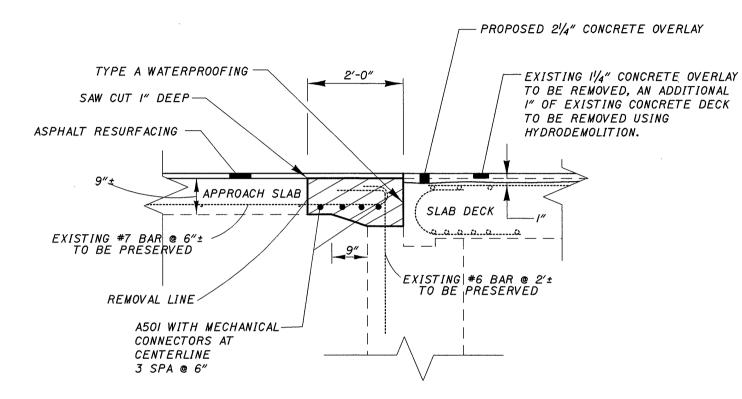
^{**} BUTT JOINT AT THE BRIDGE DECK. OMIT RESURFACING ON THE BRIDGE DECK.
(NO STRUCTURE WORK. SEE ROADWAY PLANS FOR GUARDRAIL WORK AND PLANING QUANTITIES)

BRIDGE DECK DATA

^{***} PLANE AND PAVE TOP 2 COURSES ONLY. NO STRUCTURE WORK. (SEE ROADWAY PLANS FOR GUARDRAIL WORK AND PLANING QUANTITIES)

MARK

A501



SECTION A-A

PLAN	VIEW

ITEM	QUANTITY	UNIT	DESCRIPTION
202	4	CU.YD.	REMOVAL MISC.: PORTION OF APPROACH SLAB
509	225	POUND	EPOXY COATED REINFORCING STEEL
511	4	CU.YD.	CONCRETE MISC.: APPROACH SLAB REPAIR
SPECIAL	59	FT.	STEEL DRIP STRIP
848	132	SQ.YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (21/4 INCH THICK)
848	132	SQ.YD.	SURFACE PREPARATION USING HYDRODEMOLITION
848	3	CU.YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	4	SQ.YD.	HAND CHIPPING
848	lump		TEST SLAB
848	ı	CU.YD.	FULL-DEPTH REPAIR
848	132	SQ.YD.	EXISTING CONCRETE OVERLAY REMOVED (11/4 INCH NOMINAL THICKNESS)
848	7	SQ.YD.	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY

BRIDGE DECK LENGTH= 26.88

APPROACH SLAB

REMOVAL MISC.: PORTION OF APPROACH SLAB

SAW CUT I" DEEP/

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET, SHEET NO. 98

NOTES:

- REMOVE 2' WIDE, BY FULL WIDTH OF BOTH APPR. SLABS, FOR FULL DEPTH REPLACEMENT.
- 2) THE EXISTING CONCRETE OVERLAY ON THE ENTIRE BRIDGE DECK SHALL BE REMOVED USING ITEM 848-EXISTING CONCRETE OVERLAY REMOVED (11/4" NOMINAL THICKNESS)
- 3) THE ENTIRE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 848- MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (21/4" THICKNESS)
- 4) A STEEL DRIP STRIP SHALL BE INSTALLED ON BOTH SIDES OF THE DECK AS PER STANDARD DRAWING DS-1-92.

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 \bigcirc

 \bigcirc

 \bigcirc

APPROACH SLAB

SAW CUT-

I" DEEP

106

CYCLE LENGTH: 70 SECONDS

GREEN AMBER RED

PHASE A 20 5 10 PHASE B 20 5 10

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

FOR DETAILS NOT SHOWN SEE STANDARD DRAWINGS MT-96.11, MT-96.20, MT-96.25, MT-101.20

PROPOSED PAVEMENT FOR MAINTAINING
TRAFFIC, CLASS B, AS PER PLAN
165' LONG (TYPICAL ALL CORNERS), DO NOT
REMOVE, PAVEMENT IS TO REMAIN AFTER
PROJECT IS COMPLETED

WORK AREA = 70'

WORK AREA = 70'

LINE 2

LINE 2

STORY

REMOVE 2' OF EXISTING PAVED SHOULDER (TYP.) INCLUDE COST IN ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

SAW CUT REMOVAL LINE (TYP.)

PHASE A SHOWN
PHASE B SIMILAR

NOTES:

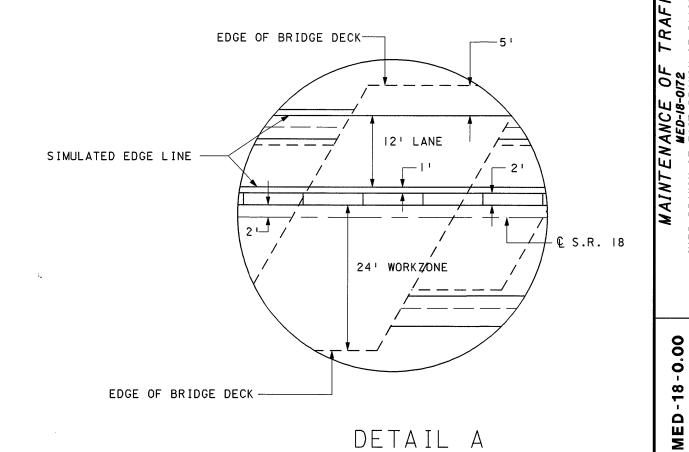
SEE DETAIL A

LINE I

	SPACING	QTY. (WHITE)	QTY. (YELLOW)
PHASE A LINE I= 220'	5'-0"	45	45
LINE 2= 150'	5'-0"	30	
LINE 3= 70'	5'-0"	15	15
PHASE B LINE I= 220'	5'-0"	45	45
LINE 2= 150'	5'-0"	30	
LINE 3= 70'	5'-0"	15	15
	TOTAL	180	120

ITEM	QUANTITY	UNIT	DESCRIPTION
614	300	EACH	WORK ZONE RAISED PAVEMENT MARKER
614	16	EACH	BARRIER REFLECTOR, TYPE A2
614	14	EACH	BARRIER REFLECTOR, TYPE B2
614	12	EACH	OBJECT MARKER, TWO WAY
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)
614	.04	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)
614	24	FT.	WORK ZONE STOP LINE, CLASS I
615	367	SQ.YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
622	300	FT.	PORTABLE CONCRETE BARRIER, 32"
622	140	FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED (UNANCHORED)

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET NO. 98



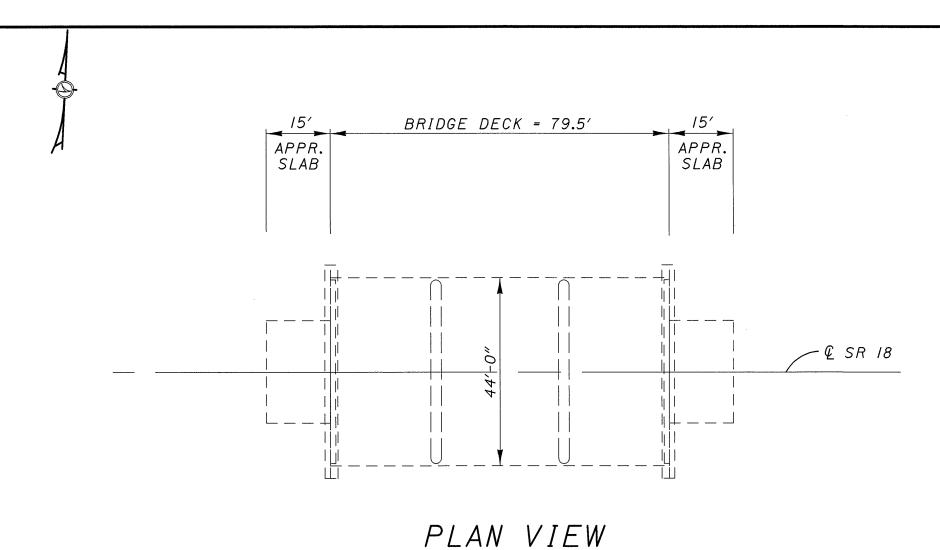
I) THE EXISTING BRIDGE RAILING AND GUARDRAIL ARE NOT SHOWN IN THE PLAN VIEW

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107

THREE

DISTRICT



QUANTITY	UNIT	DESCRIPTION
185	FT.	STEEL DRIP STRIP
389	SQ.YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (21/4 INCH THICK)
389	SQ.YD.	SURFACE PREPARATION USING HYDRODEMOLITION
7	CU.YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY(VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
12	SQ.YD.	HAND CHIPPING
lump		TEST SLAB
ı	CU.YD.	FULL-DEPTH REPAIR
389	SQ.YD.	EXISTING CONCRETE OVERLAY REMOVED (11/4 INCH NOMINAL THICKNESS)
19	SQ.YD.	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
	185 389 389 7 12 1 ump 1 389	185 FT. 389 SQ.YD. 389 SQ.YD. 7 CU.YD. 12 SQ.YD. 1 Ump 1 CU.YD. 389 SQ.YD.

NOTES:

- I) THE EXISTING CONCRETE OVERLAY ON THE ENTIRE BRIDGE DECK SHALL BE REMOVED USING ITEM 848-EXISTING CONCRETE OVERLAY REMOVED (11/4" NOMINAL THICKNESS), AN ADDITIONAL I" OF EXISTING CONCRETE DECK TO BE REMOVED USING HYDRODEMOLITION.
- 2) THE ENTIRE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 848- MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (21/4" THICKNESS)
- 3) A STEEL DRIP STRIP SHALL BE INSTALLED ON BOTH SIDES OF THE DECK AS PER STANDARD DRAWING DS-1-92.

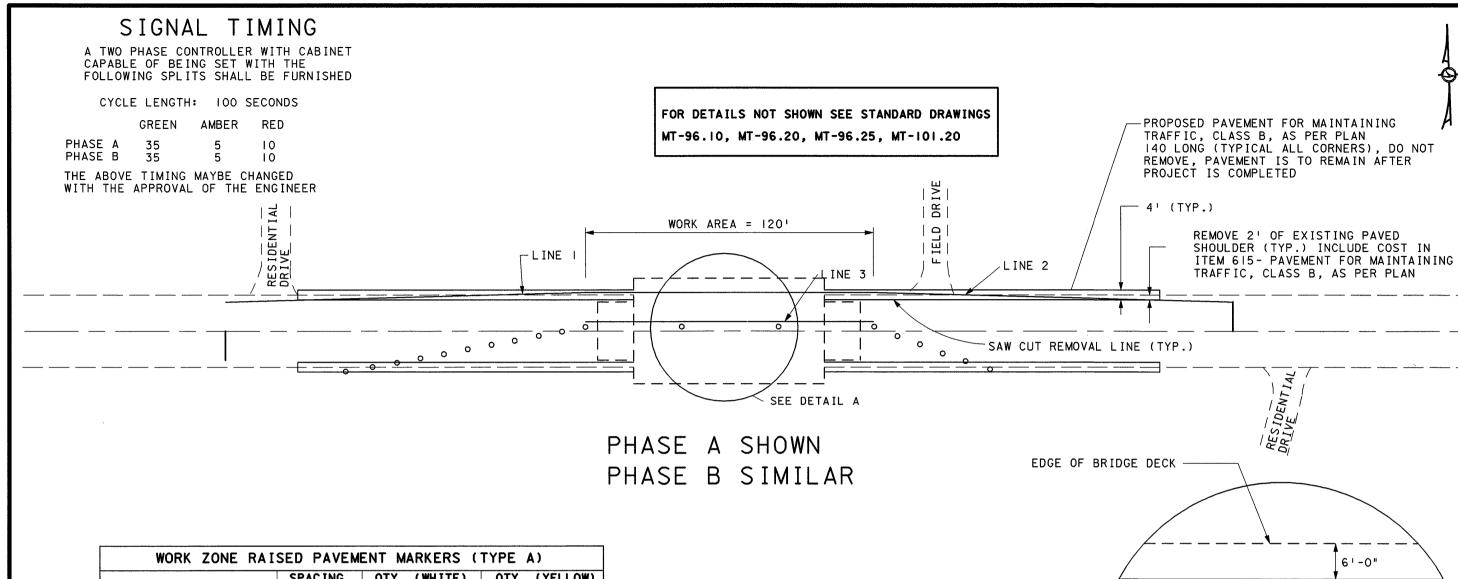
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ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET, SHEET NO. 99

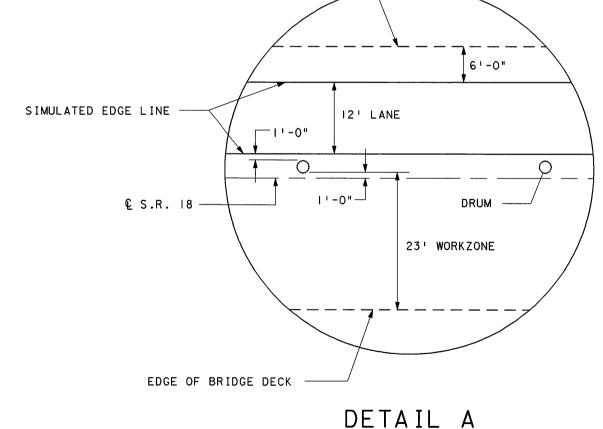
108



WORK ZONE RAI	SED PAVEM	ENT MARKERS (TYPE A)
	SPACING	QTY. (WHITE)	QTY. (YELLOW)
PHASE A LINE I= 270'	5'-0"	55	55
LINE 2= 150'	5'-0"	30	
LINE 3= 120'	5'-0"	25	25
PHASE B LINE I= 270'	5'-0"	55	55
LINE 2= 150'	5'-0"	30	
LINE 3= 120'	5'-0"	25	25
	TOTAL	220	160

ITEM	QUANTITY	UNIT	DESCRIPTION
614	380	EACH	WORK ZONE RAISED PAVEMENT MARKER
614	15	EACH	BARRIER REFLECTOR, TYPE A2
614	.06	MILE	WORK ZONE CENTER LINE, CLASS (SOLID DOUBLE)
614	.04	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)
614	24	FT.	WORK ZONE STOP LINE, CLASS I
615	249	SQ.YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET NO. 99



NOTES:

1) THE EXISTING BRIDGE RAILING AND GUARDRAIL ARE NOT SHOWN IN THE PLAN VIEW

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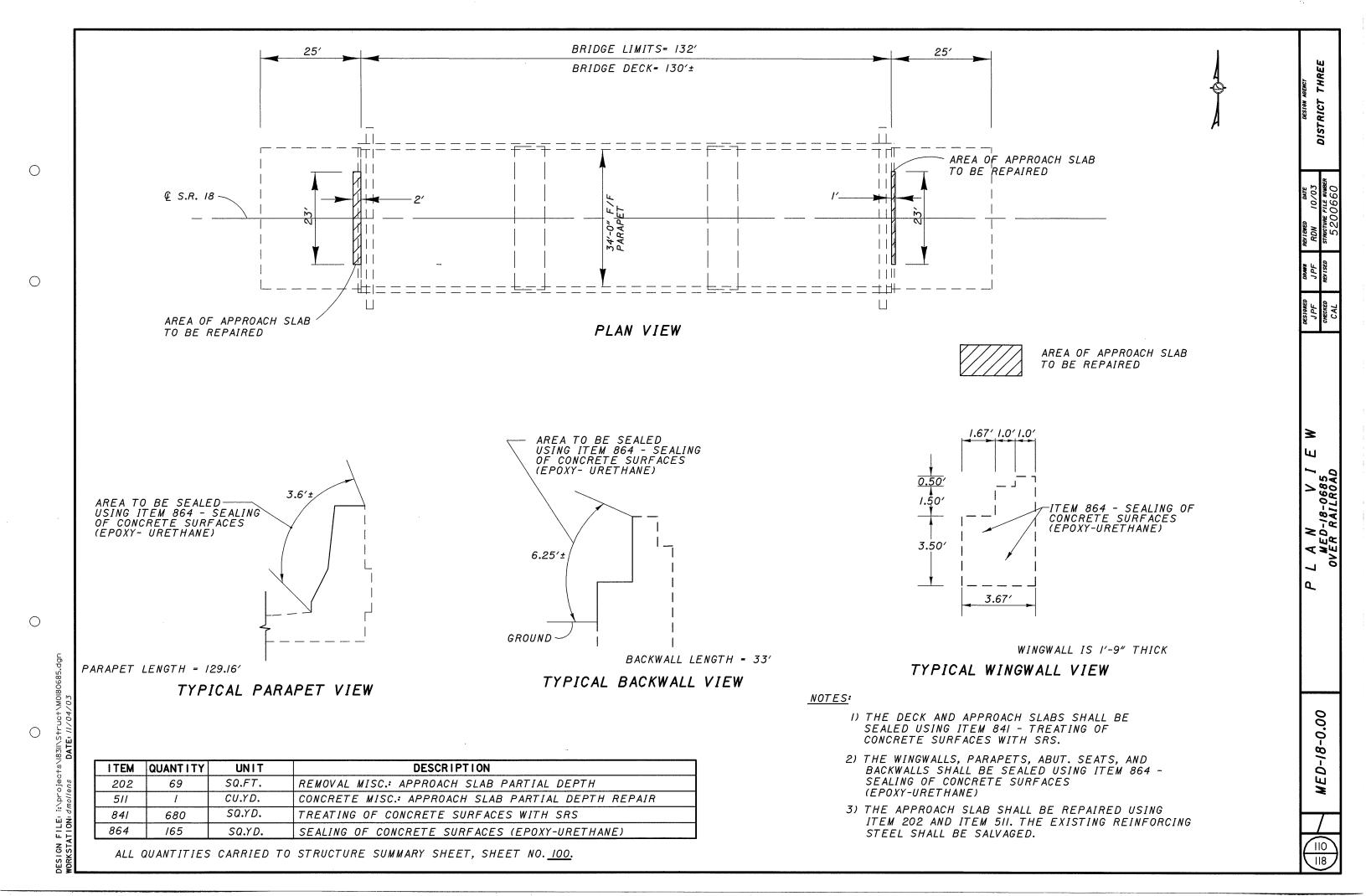
DISTRICT THREE

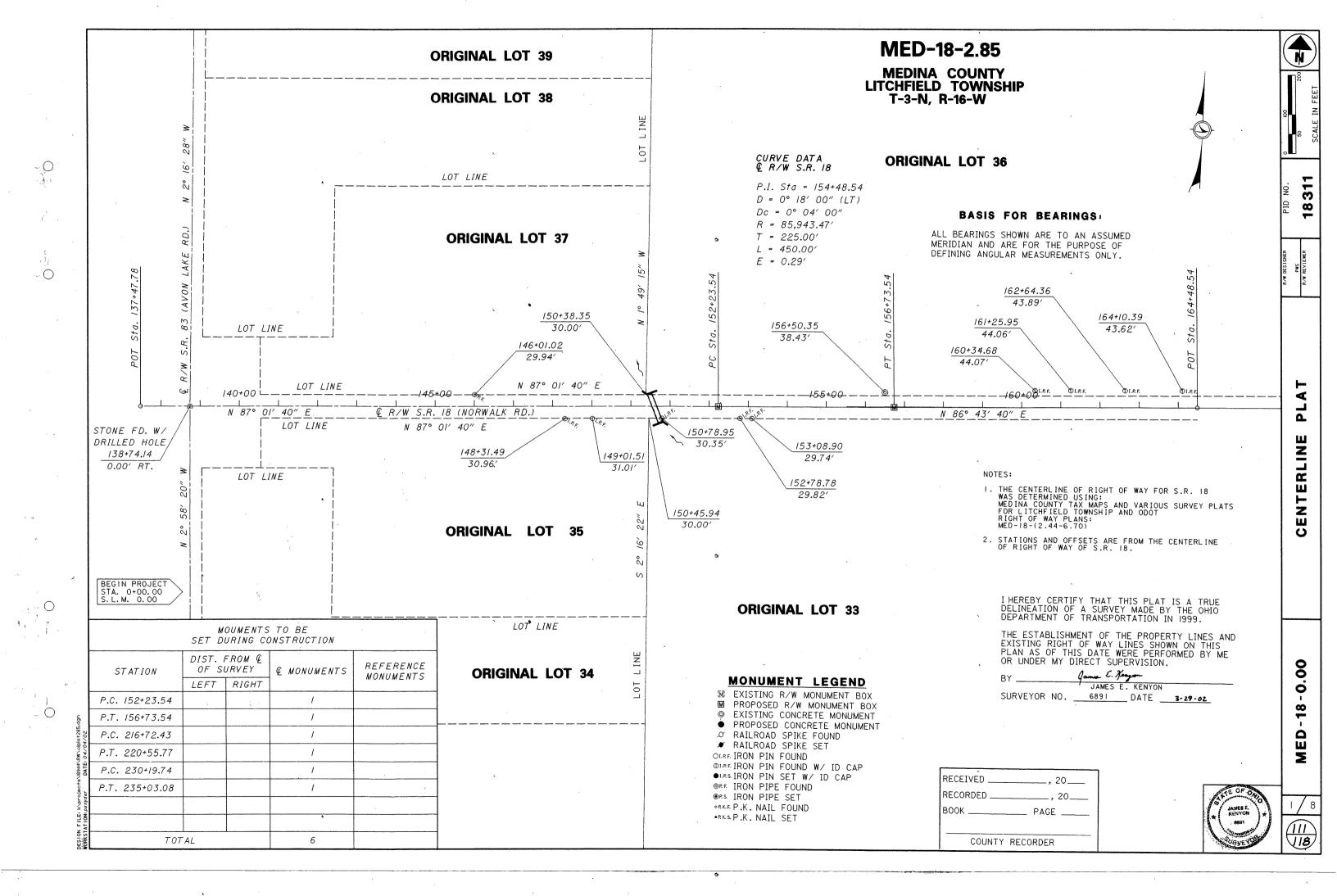
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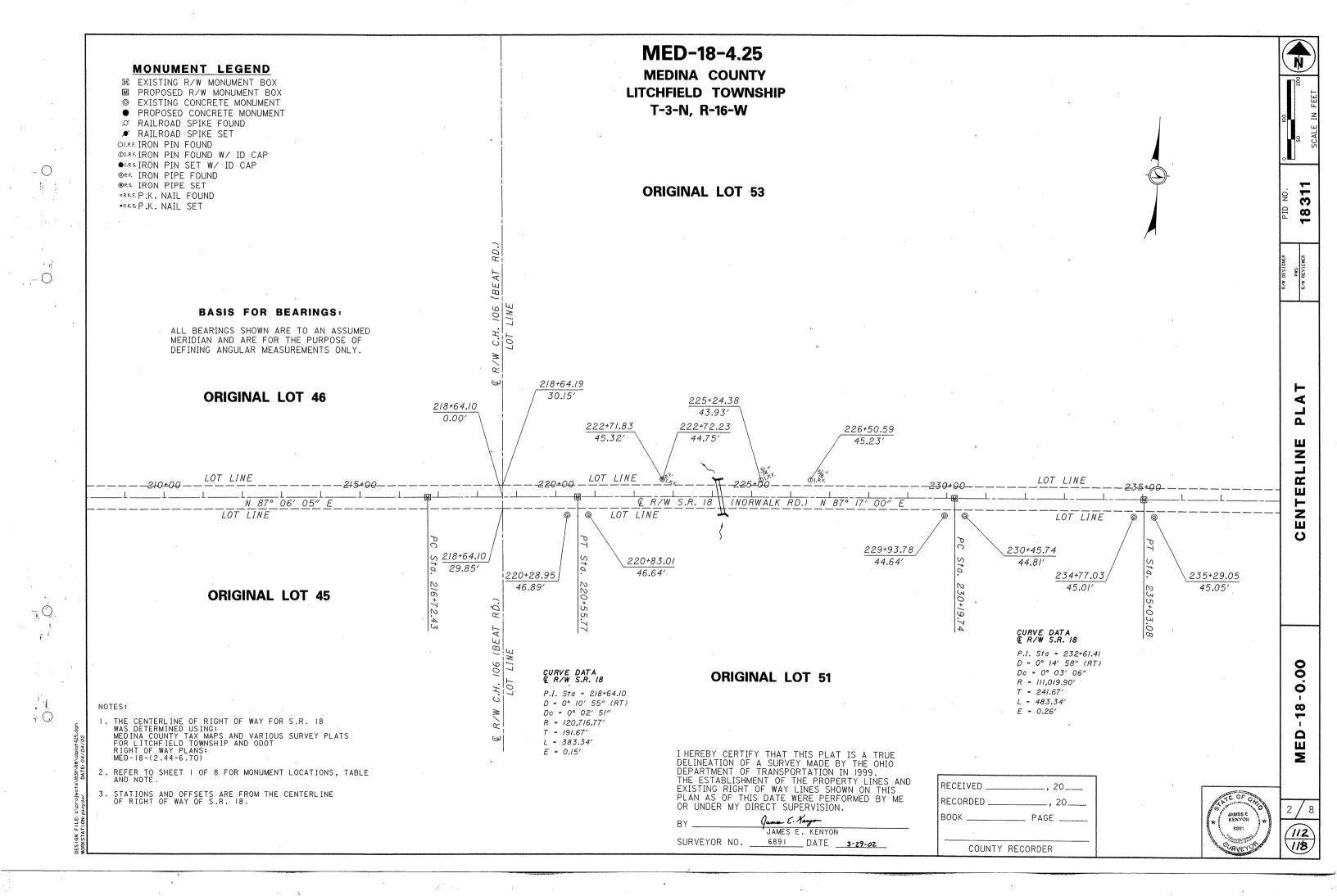
TRAFFIC

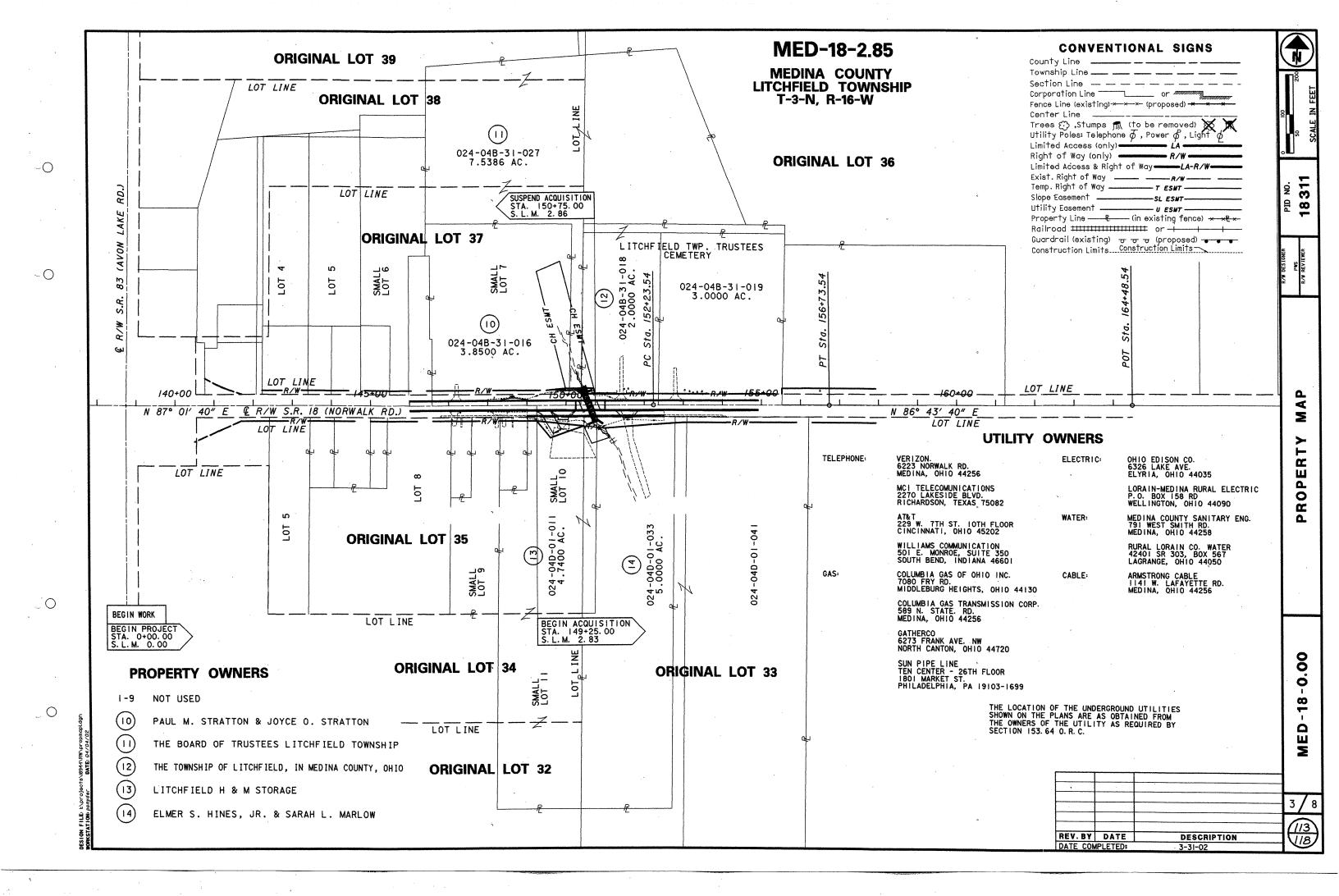
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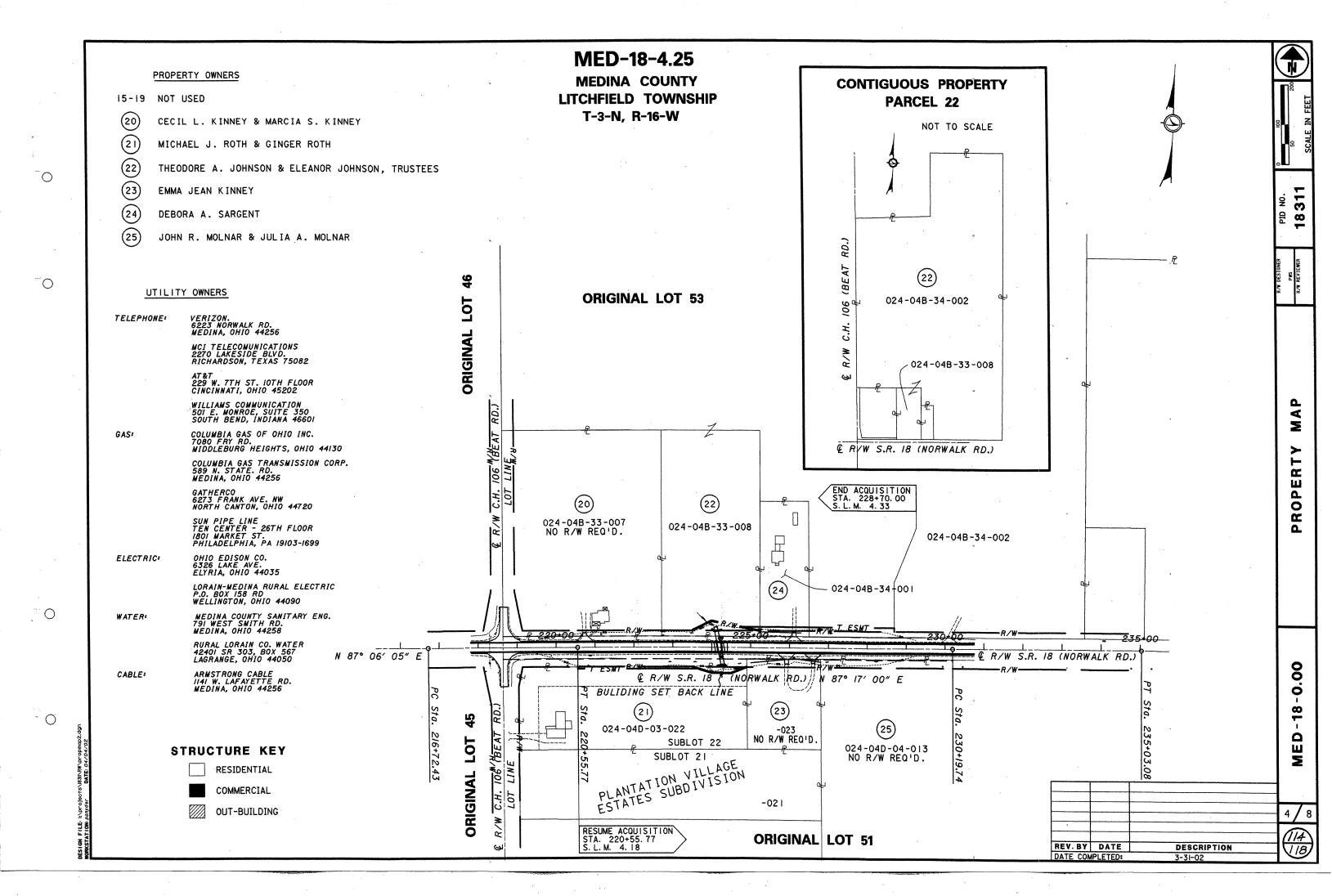
MAINTENANCE MED-18-OVER WALLE











NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO UNLESS OTHERWISE SHOWN.

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6 OWNERSHIPS O OWNERSHIPS WITH STRUCTURES INVOLVED

O OWNERSHIPS WITH "P" ITEMS 10 PARCELS

DOEL		CUEET	OWNERS	DECORD	AUDITOR'S	DECORD	TOTAL	GROSS	P.R.O. IN	NET	STRUC-	NET RI	FSIDILE	TYPE		AS AC	QUIRED	-F
RCEL	OWNER		VOLUME		AUDITOR'S Parcel	AREA	P.R.O.	TAKE	TAKE	TAKE		LEFT	RIGHT	FUND	REMARKS AND PERSONALTY	BOOK	PAGE	┨′
	NOT USED	NO.	AOFOME	PAGE	PARCEL	AULY	F 31.0.	TAKE	JAKE	TARE	10112		manı	10110		BOOK	FAGE	上
				<u> </u>										-,				1
1	PAUL M. STRATTON & JOYCE O. STRATTON	3,6	482	473	024-04B-31-016	3.8500	0.0805	0.0039	0.0000	0,0039	NONE	3.7656		STATE	INCLUDES 0.0011 AC. EXIST. CHANNEL EASE.		,	٥
																		[
1	THE BOARD OF TRUSTEES, LITCHFIELD TOWNSHIP	3, 6	OR 1264	953	024-048-31-027	7.5386	0.0069	0.0034	0.0000	0.0034	NONE	7.5283			INCLUDES 0.0034 AC. EXIST. CHANNEL EASE.		ļ	_
H	THE TOWNSHIP OF LITCHFIELD,	3,6	161	525	024-048-31-018	2.0000	0.1364	0.0119	0.0000	0.0119	NONE	1.8517			INCLUDES 0.0118 AC. EXIST. CHANNEL EASE.			1
11	IN MEDINA COUNTY, OHIO	3, 6	101	323	024 040 31 010	2.0000	0.1001	+				1.00			THOUSES OF OFFICE ACT EXTENT OF THREE CASE.		<u> </u>	╁
			 															9
•	LITCHFIELD H & M STORAGE	3,6	OR 515	925	024-040-01-011	4.7400	0.0710	0.0565	0.0000	0.0565	NONE		4.6690		TO CONSTRUCT TEMPORARY DRIVE			
			OR 484	685					ļ	ļ								
	ELLER OF HENER ID OF CAPABLE AND	7.0			201 240 21 277	5 0000	0.1088				NONE		4 0010	ļ	NO DAY DEALLOS			1
4	ELMER S. HINES, JR. & SARAH L. MARLOW	3,6	OR 648	515	024-04D-01-033	5.0000	0.1088				NONE		4.8912		NO R/W REQUIRED			F
-19	NOT USED		 	 			 	-	 	 							<u> </u>	-
		l	<u> </u>	-													†	ESIG
20	CECIL L. KINNEY & MARCIA S. KINNEY	4,7	OR 175	314	024-04B-33-007	4.9127	0.5179				NONE	4.3948			NO R/W REQUIRED			_
					•				<u> </u>		L							_
2 I WD	MICHAEL J. ROTH, A MARRIED MAN TO GINGER ROTH,			662	024-04D-03-022	2.8247	0.0000	0.0326	0.0000	0.0326	NONE		2.7921	ļ	FOR ORADING BURDOCEC ONLY		<u> </u>	4
2 I T	GINGER ROTH, A MARRIED WOMAN TO MICHAEL J. ROTH	3, 6	OR 471	649	 			0.0341	+	0.0341					FOR GRADING PURPOSES ONLY	· .		4
2WD	THEODORE A. JOHNSON AND ELEANOR JOHNSON, TRUSTEES	4. 7. 8	OR 1239	562	024-048-33-008	3.0873	0.0870	0.1370	0.0870	.0.0500	NONE	2.9503					<u> </u>	+
22T	OR THEIR SUCCESSORS IN TRUST UNDER THE JOHNSON							0.0057		0.0057					FOR GRADING PURPOSES ONLY		†	1
2T-1	LIVING TRUST, DATED SEPTEMBER 25, 1996,	4,8	OR 1260	86	024-048-34-002	80.9240		0.0504		0.0504	NONE	79.4674			FOR GRADING PURPOSES ONLY			1
	TOTAL					84.0113	1.5436	0.1370	0.0870	0.0500	ļ	82.4177]
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22	ELAMA (E.A.) & TAINEY	1 0	00 404	625	024-04D-03-023	1 0000	0.0875	+			NONE		0.9125		NO R/W REQUIRED			4,
23	EMMA JEAN KINNEY	4,8	OR 484 475	764	024-040-03-023	1.0000	0.0013	+	-	 	HONE		0.3123	 	NU R/W REQUIRED	<u> </u>	 	-1;
			1 110	1		<u> </u>			1	1	<u> </u>						†	1
24T	DEBORA A. SARGENT	4,8	OR 1284	354	024-04B-34-001	1.0760	0.0435	0.0290		0.0290	NONE	1.0325		STATE	FOR GRADING PURPOSES ONLY		† • •	
										<u> </u>								
25	JOHN R. MOLNAR & JULIA A. MOLNAR	4,8	1108	327	024-04D-04-013	93.7700	1.388				NONE		92.382		NO R/W REQUIRED			
		_	769	236		<u> </u>			-		 	<u> </u>	ļ	ļ			<u> </u>	_ '
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NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

