

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

CULVERT REPLACEMENTS AND ASSOCIATED ROADWAY IMPROVEMENTS FOR VARIOUS PROJECT SITES LOCATED IN CLERMONT AND WARREN COUNTIES

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: * ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: * ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: * ACRES

* SEE CULVERT PLAN AND DETAIL SHEETS.

**CLE / WAR -
CULVERTS - FY 20(A) PART 1**

FRANKLIN TOWNSHIP HARLAN TOWNSHIP
MONROE TOWNSHIP TURTLENECK TOWNSHIP
STONELICK TOWNSHIP WARREN COUNTY
CLERMONT COUNTY

FOR PART 2, SEE CLE-232-0.26

SEE SHEET 2 FOR
LOCATION MAPS AND
DESIGN DESIGNATIONS

DESIGN EXCEPTIONS

CULVERT LOCATION	DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
CLE-133-0734	LANE WIDTH	12/17/2019	3
CLE-133-0734	SHOULDER WIDTH	12/17/2019	3
CLE-232-0015	LANE WIDTH	11/6/2019	3
CLE-232-0015	SHOULDER WIDTH	11/6/2019	3
CLE-232-0015	HOR./VERT. CURVE: SSD	11/6/2019	26
CLE-222-2816	LANE WIDTH	12/17/2019	3
CLE-222-2816	SHOULDER WIDTH	12/17/2019	3
WAR-123-0097	LANE WIDTH	11/6/2019	4
WAR-123-0097	SHOULDER WIDTH	11/6/2019	4
WAR-42-1590	LANE WIDTH	11/6/2019	4
WAR-42-1590	SHOULDER WIDTH	11/6/2019	4

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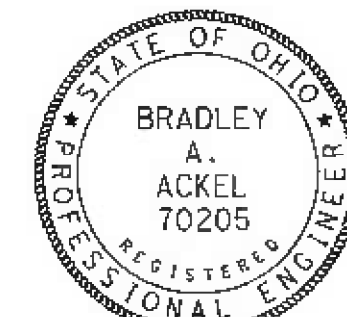
2019 SPECIFICATIONS

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



PLAN PREPARED BY:
**CARPENTER
MARTY** transportation
8612 SINGLETREE DRIVE COLUMBUS, OH 43229
614.656.2424 WWW.CMTRAN.COM

ENGINEERS SEAL:



SIGNED: *Bradley A. Ackel*
DATE: 10/2/2019

PARTS 1 AND 2									
STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	7/18/14	DM-1.1	7/21/17	TC-41.20	10/18/13		800-2019	10/18/19	WATERWAY
BP-3.2	1/18/19	DM-2.1	1/18/13	TC-42.20	10/18/13		832	10/19/18	PERMITS
BP-5.1	1/18/19	DM-4.3	1/15/16	TC-52.10	10/18/13		836	1/19/18	CONDITIONS 01/23/2020
		DM-4.4	1/15/16	TC-52.20	7/20/18		902	7/19/19	
CB-2.1	7/20/18			TC-61.30	7/19/19				
CB-2.2	7/20/18	MGS-1.1	1/19/18	TC-65.10	1/17/14				
		MGS-2.1	1/19/18	TC-65.11	7/21/17				
HW-2.1	7/20/18	MGS-4.3	1/18/13						
HW-2.2	7/20/18	MGS-5.3	7/15/16						
MH-1.1	1/15/16	RM-1.1	7/18/14						
MH-1.2	1/15/16								
		MT-97.10	7/18/14						
		MT-101.60	1/20/17						
		MT-105.10	7/19/13						

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 8-13.

APPROVED: *Tony K. Campbell*
DATE: 12/13/19 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
E161 (452)

PID NO.
100907

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

CLE / WAR -
CULVERTS - FY 20(A)

1
76

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ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER C&MS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS 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 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 31 INCHES FROM THE EDGE OF SHOULDER.

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

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ROUNDING

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

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.

IT IF 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 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 FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ITEM 623 - REFERENCE MONUMENTS

CONSTRUCT REFERENCE MONUMENTS IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON THE SHEETS LISTED BELOW:

PROJECT LOCATION	SHEET NUMBER	QUANTITY
CLE-133-0734	67	4
CLE-232-0015	68	4
CLE-222-2832	69	4
WAR-123-0097	70	4
WAR-42-1590	72	4

ITEM 202 - PORTIONS OF STRUCTURE REMOVED

THIS ITEM INCLUDES THE REMOVAL OF A SECTION OF THE EXISTING WALL AT CLE-222-2832. THE CONTRACTOR SHALL REMOVE ONLY THE PORTION OF THE WALL REQUIRED TO REMOVE AND REPLACE THE EXISTING PIPE. THIS ITEM SHALL BE REMOVED PER C&MS 202. PAYMENT FOR THE REMOVAL OF THIS ITEM IS PER ITEM 202 - PORTION OF STRUCTURES REMOVED.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

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

659, COMMERCIAL FERTILIZER (7,852 SY) (1 TON/7410 SY).....	1.06 TON
659, LIME (7,852 SY) (1 ACRE/4840 SY).....	1.62 ACRE
659, WATER (7,852 SY) (0.0054 M GAL/SY).....	43 M GAL
659, TOPSOIL (7,852 SY) (111 CY/1000 SY).....	872 CY

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTOR. ANY CHANGE IN OPERATIONS SHALL BE CORRECTED BY THE CONTRATOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM SPECIAL - MAILBOX REMOVED AND RESET

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

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

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

SUPPORT HARDWARE SHALL ACCOMODATE EITHER A SINGLE OR DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

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

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

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

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 07.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.

CLEARING AND GRUBBING

THE TREES HAVE ALREADY BEEN CUT DOWN AT THESE LOCATIONS BUT THE TREES STILL REMAIN ON SITE. THE STUMPS AND FELLED TREES NEED REMOVED WITHIN THE LIMITS OF THE PROJECT. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR THESE REMOVALS. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

CLE-232-0015 IN-STREAM WORK RESTRICTION

THE CONTRACTOR SHALL NOT PERFORM ANY WORK BELOW THE OHWM OF ANY JURISDICTIONAL WATERWAY UNTIL ODOT PROVIDES THE CONTRACTOR WITH THE REQUIRED PERMIT TO PERFORM WORK WITHIN THE SPECIFIED JURISDICTIONAL WATERWAY.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE RIGHT OF WAY LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE UNOUTLETED INTO THE ROADWAY DITCH BY ITEM 611 CONDUIT, TYPE F. 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 ITEM 61 CONDUIT, TYPE E, 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 SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OF BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611 - 6" CONDUIT, TYPE B	100 FT.
ITEM 611 - 6" CONDUIT, TYPE E	100 FT.
ITEM 611 - 6" CONDUIT, TYPE F	100 FT.
ITEM 601 - ROCK CHANNEL PROTECTION TYPE C WITH FILTER	15 CU. YD.

IN-STREAM WORK RESTRICTION

THE CONTRACTOR SHALL NOT PERFORM ANY WORK BELOW THE OHWM OF ANY JURISDICTIONAL WATERWAY UNTIL ODOT PROVIDES THE CONTRACTOR WITH THE REQUIRED PERMIT TO PERFORM WORK WITHIN THE SPECIFIED JURISDICTIONAL WATERWAY.

SOLE SOURCE AQUIFER - CLE-222-2832

THIS PROJECT IS LOCATED WITHIN A SOLE SOURCE AQUIFER. IN ORDER TO MINIMIZE THE POTENTIAL FOR CONTAMINATION, THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), THE CONTRACTOR SHALL CONTACT CHIEF JIM PEMBERTON OF STONELICK TOWNSHIP FIRE & RESCUE AT 513-732-1136 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

DRINKING WATER PROTECTION AREA - CLE-232-0015

THIS PROJECT IS LOCATED WITHIN A DRINKING WATER PROTECTION AREA. IN ORDER TO MINIMIZE THE POTENTIAL FOR CONTAMINATION, THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO GREATER CINCINNATI WATER WORKS AT 513-591-7970. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), THE CONTRACTOR SHALL CONTACT CHIEF STEVE DOWNEY OF MONROE TOWNSHIP FIRE & EMS AT 513-734-0847 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

CALCULATED
DMG
CHECKED
BAA

GENERAL NOTES

CLE / WAR -
CULVERTS-FY20(A)

TIME LIMITATION ON A DETOUR

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED THE CALENDAR DAYS LISTED IN THE PROJECT LOCATIONS WITH DETOURS TABLE ON THIS SHEET. THE LISTED CONSECUTIVE CALENDAR DAYS MUST FALL BETWEEN MAY 23 - AUGUST 11. THE DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT LISTED IN THE AFOREMENTIONED TABLE PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

CLE-222-2816 AND CLE 222-2832 CLOSURES SHALL BE CONSECUTIVE AND SHALL NOT BE CONCURRENT. THE CONTRACTOR MUST MAINTAIN ACCESS TO AUTUMN OAK DRIVE AT ALL TIMES DURING THE REPLACEMENT OF BOTH CULVERTS.

CLE-232-0.15 CLE-232-0.26 CLOSURES SHALL BE CONSECUTIVE AND SHALL NOT BE CONCURRENT. THE CONSTRUCTION FOR THE WALL AT CLE-232-0.26 SHALL BE PRIOR TO THE CONSTRUCTION FOR THE CULVERT AT CLE-232-0.15.

COMPLETE ALL WORK AT THESE LOCATIONS WITHIN THE SPECIFIED TIME PERIODS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THE SHEETS LISTED IN THE TABLE BELOW.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP 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 OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER (513-933-6534) WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

WILL BE
CLOSED
FOR _____ DAYS
INFO:

W20-H13

SIGNS AND BARRICADES

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

- CLE-133-0734
*BARRICADE AT START OF PROJECT NEAR STA. 386+00
*BARRICADE AT END OF PROJECT NEAR STA. 389+00
- CLE-232-0015
*BARRICADE AT START OF PROJECT NEAR STA. 6+40
*BARRICADE AT END OF PROJECT NEAR STA. 9+40
- CLE-222-2816
*BARRICADE AT START OF PROJECT NEAR STA. 1486+55
*BARRICADE AT END OF PROJECT NEAR STA. 1489+55
- CLE-222-2832
*BARRICADE AT START OF PROJECT NEAR STA. 1495+10
*BARRICADE AT END OF PROJECT NEAR STA. 1498+10
- WAR-123-0097
*BARRICADE AT START OF PROJECT NEAR STA. 49+70
*BARRICADE AT END OF PROJECT NEAR STA. 52+70
- WAR-42-1590
*BARRICADE AT START OF PROJECT NEAR STA. 829+50
*BARRICADE AT END OF PROJECT NEAR STA. 838+00

FOR MORE DETAILS SEE DETOURS ON THE SHEETS LISTED IN THE PROJECT LOCATIONS WITH DETOURS TABLE ON THE SHEET.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

PRIOR TO OPENING ROADWAY TO TRAFFIC, ALL PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE.

ITEM 614. MAINTAINING TRAFFIC

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

ITEM 614 - DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL DETOUR SIGNING AND SUPPORTS AS SHOWN ON SHEETS 10-15 AND ON STANDARD CONSTRUCTION DRAWING MT-101.60. ALL WORK SHALL BE PAID FOR UNDER ITEM 614, DETOUR SIGNING.

PROJECT LOCATIONS WITH DETOURS TABLE

PROJECT WORK LOCATION	DETOUR PLAN SHEET	CLOSURE TIME FRAME (CONSECUTIVE DAYS)	DISINCENTIVE
CLE-133-0734	9	19 DAYS	\$4,000
CLE-232-0015	10	26 DAYS	\$3,500
CLE-222-2816	11	19 DAYS	\$4,500
CLE-222-2832	12	19 DAYS	\$4,500
WAR-123-0097	13	26 DAYS	\$3,000
WAR-42-1590	14	19 DAYS	\$5,500

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUIREST BY THE PROJECT ENGINEER.

ITEM	NOTIFICATION TIME TABLE	
	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORSEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614. MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

ALL CULVERT LOCATIONS	
CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

CLE-222-2816 AND CLE-222-2832 LOCATIONS

CLERMONT COUNTY FAIR
(JULY 25TH - AUGUST 1ST)
PUMPKIN RUN
(OCTOBER 2ND - OCTOBER 4TH)

WAR-42-1590 CULVERT LOCATION
WAYNESVILLE SAUERKRAUT FESTIVAL
(2ND SATURDAY AND SUNDAY OF OCTOBER 2020)

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

DATE OF HOLIDAY OR EVENT	DATE OF HOLIDAY BE OPEN TO TRAFFIC
SUNDAY	12:00N FRI. THROUGH 6:00 AM MON.
MONDAY	12:00N FRI. THROUGH 6:00 AM TUES.
TUESDAY	12:00N MON. THROUGH 6:00 AM WED.
WEDNESDAY	12:00N TUES. THROUGH 6:00 AM THURS.
THURSDAY	12:00N WED. THROUGH 6:00 AM FRI.
THURSDAY (THANKSGIVING ONLY)	6:00 AM WED. THROUGH 6:00 AM MON.
FRIDAY	12:00N THURS. THROUGH 6:00 AM MON.
SATURDAY	12:00N FRI. THROUGH 6:00 AM MON.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

P:\DDT\08\0712_CLE_WAR_Culverts\FY20\100907_CLE_WAR-CR-FY20\Design\Roadway\Sheets\100907_MN001.dgn Sheet 10/2/2019 9:30:55 AM backel

MAINTENANCE OF TRAFFIC NOTES

CLE / WAR - CULVERTS-FY20(A)

TIME LIMITATION ON A DETOUR

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED THE CALENDAR DAYS LISTED IN THE PROJECT LOCATIONS WITH DETOURS TABLE ON THIS SHEET. THE LISTED CONSECUTIVE CALENDAR DAYS MUST FALL BETWEEN MAY 23 - AUGUST 11. THE DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT LISTED IN THE AFOREMENTIONED TABLE PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

CLE-222-2816 AND CLE 222-2832 CLOSURES SHALL BE CONSECUTIVE AND SHALL NOT BE CONCURRENT. THE CONTRACTOR MUST MAINTAIN ACCESS TO AUTUMN OAK DRIVE AT ALL TIMES DURING THE REPLACEMENT OF BOTH CULVERTS.

CLE-232-0.15 CLE-232-0.26 CLOSURES SHALL BE CONSECUTIVE AND SHALL NOT BE CONCURRENT. THE CONSTRUCTION FOR THE WALL AT CLE-232-0.26 SHALL BE PRIOR TO THE CONSTRUCTION FOR THE CULVERT AT CLE-232-0.15.

COMPLETE ALL WORK AT THESE LOCATIONS WITHIN THE SPECIFIED TIME PERIODS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THE SHEETS LISTED IN THE TABLE BELOW.

NOTICE OF CLOSURE SIGN

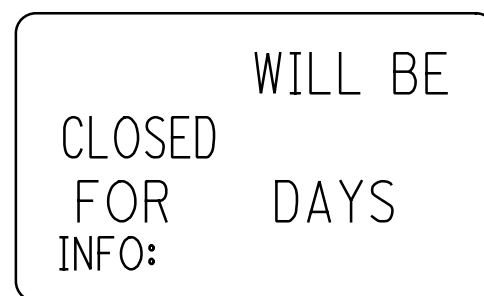
NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP 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 OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER (513-933-6534) WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.



W20-H13

SIGNS AND BARRICADES

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

- CLE-232-0.26
- *BARRICADE AT START OF PROJECT NEAR STA. 10+00
- *BARRICADE AT END OF PROJECT NEAR STA. 17+00

FOR MORE DETAILS SEE DETOURS ON THE SHEETS LISTED IN THE PROJECT LOCATIONS WITH DETOURS TABLE ON THE SHEET.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

PRIOR TO OPENING ROADWAY TO TRAFFIC, ALL PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE.

ITEM 614. MAINTAINING TRAFFIC

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

ITEM 614 - DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL DETOUR SIGNING AND SUPPORTS AS SHOWN ON SHEETS 10-15 AND ON STANDARD CONSTRUCTION DRAWING MT-101.60. ALL WORK SHALL BE PAID FOR UNDER ITEM 614, DETOUR SIGNING.

PROJECT LOCATIONS WITH DETOURS TABLE

PROJECT WORK LOCATION	DETOUR PLAN SHEET	CLOSURE TIME FRAME (CONSECUTIVE DAYS)	DISINCENTIVE
CLE-232-0.26	5	45 DAYS	\$ 3,500

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUIREST BY THE PROJECT ENGINEER.

ITEM	NOTIFICATION TIME TABLE	
	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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ITEM 614. MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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WAR-42-1590 CULVERT LOCATION
WAYNESVILLE SAUERKRAUT FESTIVAL
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FRIDAY	12:00N THURS. THROUGH 6:00 AM MON.
SATURDAY	12:00N FRI. THROUGH 6:00 AM MON.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

DESIGNATED LOCAL DETOUR ROUTES

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTES, LOCAL ROUTES HAVE BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTES OR "DESIGNATED LOCAL DETOUR ROUTES." THESE ROUTES ARE SHOWN ON SHEETS 10-15. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THESE ROUTES IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE EACH DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTES SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTES.

CLE-232-0.26

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	10 CU. YD.
ITEM 407, NON-TRACKING TACK COAT	15 GAL.
ITEM 614, COMPACTED AGGREGATE, TYPE A	10 CU. YD.