

**ROUNDING**

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

**UTILITIES**

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

CHARTER COMMUNICATIONS FORMERLY TIME WARNER CABLE 8179 DOW CIRCLE STRONGSVILLE, OHIO 44136 ATTN: PAUL SILVESTRO PHONE: 216-575-8016, EXT 216555034 FAX: 440-826-2940

CITY OF CLEVELAND DIVISION OF WATER 1201 LAKESIDE AVE. CLEVELAND, OHIO 44114 ATTN: FRED ROBERTS PHONE: 216-644-2444 X75590 FAX: (216) 664-2378

AT&T 13630 LORAIN AVE. 2ND FLOOR CLEVELAND, OHIO 44111 ATTN: JAMES JANIS PHONE: (216) 476-6142 FAX: (216) 476-6013

CEI FIRST ENERGY THE ILLUMINATING COMPANY ATTN: TED RADER 6896 MILLER ROAD BRECKSVILLE OH 44141 OFFICE: 440-546-8738

CITY OF CLEVELAND DIVISION OF CLEVELAND PUBLIC POWER (MELP) 1300 LAKESIDE AVE. CLEVELAND, OHIO 44114 ATTN: CHRIS HIRZEL PHONE: (216) 664-3922, EXT. 115 FAX: (216) 664-2972

DOMINION EAST OHIO GAS COMPANY 320 SPRINGSIDE DR. FAIRLAWN, OHIO 44333 ATTN: ED GOUBEUX PROJECT MANAGER PHONE: (330) 664-2494 MOBILE: (330) 604-7482

CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL 12302 KIRBY ROAD CLEVELAND, OHIO 44108 ATTN: RACHID ZOGHAIB PHONE: (216) 664-3785 ATTN: ELIE RAMY PHONE: 216-664-2513

MCI-WORLDCOM 120 RAVINE ST. AKRON, OHIO 44303 ATTN: AL GUEST PHONE: (330) 253-8267

NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORS) ATTN: MARY MACIEJOWSKI 3900 EUCLID AVE CLEVELAND, OHIO 44115-2504 PHONE: (216) 881-6600, EXT. 6466

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.

**EXISTING PLANS**

EXISTING PLANS ENTITLED CUY-90-23.50 (1959), CUY-90-21.27 (1975), CUY-77-2.82 (1984), CUY-90-23.95 (1990), CUY-90-24.13 (1997), CUY-71-17.91 (2003), CUY-90-23.93 (2012) AND CUY-90-24.70 (2012) MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN CLEVELAND.

EXISTING PLANS ARE ALSO AVAILABLE ONLINE THROUGH THE FOLLOWING WEBSTIE: <http://www.dot.state.oh.us/Divisions/ContractAdmin/Contracts/Pages/designfiles.aspx>

**EXISTING TYPICAL SECTIONS**

EXISTING TYPICAL SECTIONS HAVE BEEN TAKEN FROM FIELD MEASUREMENTS, RECORDS, AND PAVEMENT CORES AND ARE BELIEVED TO REPRESENT THE EXISTING PAVEMENT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THE SAME. FOR FURTHER INFORMATION IN REGARD TO THE TYPICAL SECTIONS, THE CONTRACTOR SHALL REFER TO THE PREVIOUS CONSTRUCTION PLANS WHICH CAN BE VIEWED AT THE DISTRICT 12 OFFICE OR ONLINE.

**SURVEYING PARAMETERS**

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING ORTHOMETRIC HEIGHT DATUM: NAVD88, FROM NGS MB1574 WITH HEIGHT SHIFT GEOID: 12B

HORIZONTAL POSITIONING REFERENCE FRAME: NAD83(2011) ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE COMBINED SCALE FACTOR: 0.9999536612 ORIGIN OR COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENT RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**PART-WIDTH CONSTRUCTION**

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

**CONSTRUCTION NOISE**

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. THE CITY OF CLEVELAND HAS GRANTED A VARIANCE REQUEST TO WAIVE ENFORCEMENT OF THE NOISE REQUIREMENTS FOR A PERIOD OF 28 MONTHS. THE HEAVY EQUIPMENT APPROVED TO BE UTILIZED OUTSIDE OF THE NORMAL HOURS OF 6AM TO 8PM ARE CONCRETE TRUCKS, CONCRETE PUMPERS, BIDWELL BRIDGE FINISHING MACHINE, LIGHT PLANTS, AND PORTABLE GENERATORS.

THE NOISE ORDINANCE VARIANCE HAS THE FOLLOWING CONDITIONS:

- THE DEPARTMENT OF PUBLIC SAFETY AND THE RESPECTIVE COUNCILMEN SHALL BE NOTIFIED AT A MINIMUM OF 72 HOURS IN ADVANCE OF ANY CHANGES TO THE ORIGINAL REQUEST.
- THE DEPARTMENT OF PUBLIC SAFETY AND THE RESPECTIVE COUNCILMEN SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY WORK SCHEDULE CHANGES RELATIVE TO THE HOURS/DAYS OF OPERATION(S).
- THE CITY OF CLEVELAND AND THE RESPECTIVE COUNCILMEN SHALL BE NOTIFIED 72 HOURS IN ADVANCE IF ANY OTHER HEAVY EQUIPMENT IS UTILIZED OTHER THAN THOSE LISTED ABOVE OR IN THE ORIGINAL REQUEST.

NOTIFICATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. THE CONTRACTOR CAN REVIEW THE EXISTING VARIANCE REQUEST AT THE DISTRICT OFFICE.

**PROTECTION OF RIGHT-OF-WAY LANDSCAPING**

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

**ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF THE CMS, THIS ITEM OF WORK WILL INCLUDE THE FOLLOWING ADDITIONAL REQUIREMENTS.

AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL BRIDGES WITHIN THE PROJECT LIMITS AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. AS A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG THE CENTERLINE OF EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE MEASUREMENTS SHALL BE DOCUMENTED ON THE ODOT VERTICAL CLEARANCE SURVEY FORM. THE FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THE OHIO PROFESSIONAL SURVEYOR SHALL SUBMIT THE COMPLETED FORM TO THE PROJECT ENGINEER AND THE DISTRICT BRIDGE MAINTENANCE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE AT THE UNIT PRICE BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK ABOVE.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. 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.

**PROFILE AND ALIGNMENT**

PLACE THE PROPOSED PAVEMENT OUTSIDE OF THE BRIDGE RAISING LIMITS TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PREVIOUS CONSTRUCTION PLANS, PROJECT NO. CUY-90-23.50, SHOWING THE ORIGINAL ALIGNMENT AND PROFILE, ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 12 OFFICE OR ONLINE. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY WITH A UNIFORM THICKNESS OF 3 1/4 INCHES AS SHOWN ON THE TYPICAL SECTIONS.

**ITEM 607 - FENCE REBUILT, TYPE CL, AS PER PLAN**

CAREFULLY REMOVE, RECONDITION, AND RE-ERECT FENCE AND COMPONENT PARTS AS DETAILED ON THE PLANS. DO NOT DAMAGE THE FENCE OR COMPONENT PARTS. ANY NEW PARTS WHICH ARE NEEDED, AS DETERMINED BY THE ENGINEER, WILL BE SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

THE AMOUNT OF REBUILT FENCE TO BE PAID FOR WILL BE THE NUMBER OF FEET REBUILT, COMPLETE IN PLACE AND MEASURED AS PROVIDED FOR IN 607.09.

PAYMENT FOR THE ABOVE WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 607, FENCE REBUILT, TYPE CL, AS PER PLAN.

**FENCE LENGTHS**

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

**ITEM 202, GUARDRAIL REMOVED, AS PER PLAN**

THE REMOVAL OF ANCHOR ASSEMBLIES AND BRIDGE TERMINAL ASSEMBLIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE PER LINEAL FOOT OF GUARDRAIL REMOVED. ALL REMOVALS SHALL BE IN ACCORDANCE WITH CMS ITEM 202.09.

**SEEDING AND MULCHING**

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

209, LINEAR GRADING	17 STA.
659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	151 CU. YD.
659, SEEDING AND MULCHING	1,292 SQ. YD.
659, REPAIR SEEDING AND MULCHING	65 SQ. YD
659, INTER-SEEDING	65 SQ. YD.
659, COMMERCIAL FERTILIZER	0.2 TON
659, LIME	0.27 ACRES
659, WATER	7 M. GAL.
659, MOWING	12 M. SQ. FT.
832, EROSION CONTROL	5,000 EACH

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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GENERAL NOTES

CUY-90-24.10/24.63

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**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 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 611, INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1, AS PER PLAN**

THE CONTRACTOR SHALL REMOVE AND STORE FOR REUSE THE EXISTING CATCH BASIN CASTING. THE CONTRACTOR SHALL REINSTALL THE CASTING AND PROVIDE THE REQUIRED INLET OPENING AS PER SCD I-2.1 DURING THE MEDIAN BARRIER REPLACEMENT.

**ITEM 611, 15" CONDUIT, TYPE F, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF 611, THE CONDUIT SHALL INCLUDE THE TRENCHING UNDER THE NOISE BARRIER. THE CONTRACTOR SHALL ENSURE THE STABILITY OF THE NOISE BARRIERS DURING THE INSTALLATION OF THE CONDUIT WITHOUT REMOVING THE PANELS.

**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 INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR 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, PIPE CLEANOUT**

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS AS DIRECTED BY THE ENGINEER. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEAN-OUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEAN-OUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEAN-OUT.

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

SPECIAL, PIPE CLEAN-OUT, 24" AND UNDER 350 FT.

**ITEM 209, DITCH CLEANOUT, AS PER PLAN**

UPON COMPLETION OF THE BRIDGE ITEMS AND STABILIZATION OF THE SITE, THE CONTRACTOR SHALL REMOVE DEBRIS AND WATER BLAST THE TROUGHS AT THE TOE OF THE CONCRETE SLOPE PROTECTION FOR BOTH SIDES OF EACH BRIDGE.

PAYMENT FOR THE ABOVE SHALL BE INCLUDE IN THE UNIT PRICE BID FOR ITEM 209, DITCH CLEANOUT, AS PER PLAN, LINEAL FOOT AND SHALL INCLUDE CLEANING OUT THE DOWNSTREAM CATCHBASINS.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 209, DITCH CLEANOUT, AS PER PLAN 320 FT.

**ITEM 511 WINGWALLS OR HEADWALLS FOR 611 ITEMS**

FOR ITEMS 706.05, 706.051, 706.052 AND 706.053 WITH A CAST-IN-PLACE WING-WALL OR HEAD-WALL A PRECAST ALTERNATIVE MAY BE FURNISHED PER 602.03. THE PRECAST ALTERNATIVE WILL MEET THE CAST-IN-PLACE STRUCTURAL DESIGN LOADINGS, DESIGN HEIGHT, AND DESIGN LENGTH DIMENSIONS.

FULL COMPENSATION FOR THE PRECAST WING-WALL OR HEAD-WALL IS THE NUMBER OF CUBIC YARDS OF ITEM 511, AND POUNDS OF ITEM 509 FOR THE CORRESPONDING CAST-IN-PLACE STRUCTURE.

**PERMITS - CITY OF CLEVELAND**

IN THE CITY OF CLEVELAND, ALL PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING WORK. PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMIT, OVERLOAD PERMIT, OBSTRUCTION PERMIT AND/OR SIDEWALK PERMIT. THESE PERMITS MAY BE OBTAINED THROUGHT THE FOLLOWING CONTACT:

TRAVIS EVANS  
DEPARTMENT OF FINANCE  
DIVISION OF ASSESSMENTS AND LICENSES  
601 LAKESIDE AVENUE, ROOM 122  
CLEVELAND, OHIO 44114  
PHONE: 216-664-2174  
EMAIL: DALPERMITS@CITY.CLEVELAND.OH.US

ALL STREET OPENING REPAIRS, CURB REPAIRS AND/OR SIDEWALK REPAIRS INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO THE CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING 216-664-2174.

ALL PERMITS, FEES, AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE PERTINENT WORK ITEMS. FOR BIDDING PURPOSES, FEES AND CHARGES MAY BE OBTAINED FROM THE DIVISION OF ASSESSMENT AND LICENSES AT 216-664-2174.

**PLANING REQUIREMENTS**

THE DURATION OF TIME BETWEEN PLANING THE ASPHALT AND PLACING THE ASPHALT OVERLAY SHALL BE KEPT TO A MINIMUM. IN NO INSTANCE SHALL THIS TIME EXCEED 7 CALENDAR DAYS. THE TIME LIMIT SHALL BEGIN ON THE FIRST DAY OF PLANING AND SHALL CONTINUE BASED ON CALENDAR DAYS, MINUS ANY WEATHER DAYS, UNTIL COMPLETION OF THE ASPHALT CONCRETE SURFACE COURSE. THIS IS TO ENSURE THAT THE POTENTIAL DEGRADATION OF THE EXPOSED PAVEMENT DUE TO TRAFFIC IS KEPT TO A MINIMUM. THIS REQUIREMENT APPLIES TO BOTH MAINLINE AND RAMPS ALIKE.

IN THE EVENT THAT THE TIME BETWEEN EXPOSING THE EXISTING PAVEMENT AND PLACING THE ASPHALT SURFACE COURSE EXCEEDS 7 CALENDAR DAYS, LIQUIDATED DAMAGES AS PER 108.07 OF THE C&MS SHALL BE ASSESSED.

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**GENERAL NOTES**

**CUY -90-24.10 / 24.63**

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**DELINEATION OF PORTABLE AND PERMANENT BARRIER**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL AND ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND CONCRETE PERMANENT BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE ALONG TAPERS AND TRANSITION AREAS AND ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES. THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 BI-DIRECTIONAL 1,290 EACH  
ITEM 614, OBJECT MARKER, ONE-WAY 1,020 EACH  
ITEM 614, INCREASED BARRIER DELINEATION 925 FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

**ITEM 614, MAINTAINING TRAFFIC, MISC.: DECK REPAIRS, AS DIRECTED**

PRIOR TO PHASE 1, DECK REPAIRS SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. THE DECK WILL BE SOUNDED AND LOCATIONS MARKED FOR REPAIR SHALL BE MILLED 2 INCHES, TACKED WITH ITEM 407, AND FILLED WITH ITEM 441 ASPHALT CONCRETE SURFACE COURSE, PG 64-22 OR AN ALTERNATE, AS APPROVED BY THE ENGINEER. THE ASPHALT CONCRETE SURFACE COURSE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INCORPORATION INTO THE WORK.

PAYMENT FOR THIS WORK SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS, ETC. NECESSARY TO COMPLETE EACH DIRECTED DECK REPAIR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, MAINTAINING TRAFFIC, MISC.: DECK REPAIRS, AS DIRECTED 3,600 SF

**ITEM 621, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN**

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM NOVEMBER THROUGH MARCH.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ITEMS HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" 47,115 SQUARE YARDS  
ITEM 442, ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN 1,964 CUBIC YARDS  
ITEM 621, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN 7,000 EACH

PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.

**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 SUB-BASE 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 TWO 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 UN-COMPLETED BASE WIDENING SHALL BE BACK-FILLED AT THE DIRECTION OF THE ENGINEER.

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

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

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

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

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

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT)**

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 600 HOURS

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

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**MAINTENANCE OF MEDIAN DRAINAGE**

THE CONTRACTOR SHALL INSTALL AT A MINIMUM OF 20 FEET OF A TYPE 2 SLOTTED DRAIN EVERY 200 FEET AND ONE ON EITHER SIDE OF THE SUMP INLET AND EACH BRIDGE, ALONG THE CENTERLINE OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE TEMPORARY CONDUIT SHALL BE DRAINED TO THE NEAREST INLET. ONCE THE BARRIER AND GRATE IS REMOVED, THE CONTRACTOR SHALL PLACE A STEEL PLATE OR APPROVED BRIDGE BY THE ENGINEER OVER THE OPENING OF THE INLET AND PLACE PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A OVER THE INLET OPENING TO MATCH THE CROSS SLOPE OF THE EXISTING SHOULDER. DURING PHASE 6 OF THE PROJECT, THE SLOTTED DRAIN, PIPE, TEMPORARY PAVEMENT AND BRIDGE SHALL BE REMOVED.

THE SLOTTED DRAIN AND 12" CONDUIT SHALL CONSIST OF TEMPORARY 12 INCH DIAMETER SLOTTED DRAIN ALUMINUM COATED STEEL CONDUIT 707.01 WITH 6 INCH TRAPEZOIDAL GALVANIZED SOLID BAR GRATE AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3, AND AS APPROVED BY THE ENGINEER, AND TEMPORARY 12", CONDUIT, TYPE B FOR MAINTAINING TRAFFIC.

ALL COSTS FOR LABOR AND MATERIALS, INCLUDING CONNECTIONS, TYPE 2 BEDDING, AND BACKFILLING FOR BOTH THE SLOTTED DRAIN AND THE CONDUIT, TYPE B AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3, AND ALL REMOVAL AND RESTORATION, FOR BOTH THE 12" SLOTTED DRAIN AND THE 12" CONDUIT, TYPE B INCLUDING BACKFILLING THE VOID AS DETAILED UNDER STANDARD CONSTRUCTION DRAWING DM-1.3, SHALL BE INCLUDED IN THE PRICE BID PER FOOT. THE REMOVAL OF THE GRATE AND REINSTALLATION ARE PAID FOR ELSEWHERE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE.

ITEM 611, 12" SLOTTED DRAIN, TYPE 2, AS PER PLAN 300 FEET  
ITEM 611, 12" CONDUIT TYPE B, AS PER PLAN 450 FEET

**DETOURS**

THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR DETOUR SIGNING SHOWN ON THE DETOUR PLANS, SHEETS 54 - 57.

614, DETOUR SIGNING LS  
630, SIGN TEMPORARY OVERLAY 613 SF  
630, SIGN TEMPORARY OVERLAY REMOVED 13 EACH

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SHEET NO.	REFERENCE NO.	STATION		SIDE	614	614	614	614	614	614	615	622	622	622	622	622	630	630					
		FROM	TO		WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	WORK ZONE GORE MARKING, CLASS II, 642 PAINT	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, 32"	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, 32", BRIDGE MOUNTED	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	PORTABLE BARRIER, "Y" CONNECTOR	SIGN, TEMPORARY OVERLAY	REMOVAL OF TEMPORARY OVERLAY SIGN AND DISPOSAL				
					EACH	FT	FT	FT	FT	FT	SY	FT	FT	FT	FT	FT	EACH	SF	EACH				
PHASE 5 (EAST 140TH EXIT RAMP OPEN)																							
42A	PB-1	171+55	172+45	LT								90											
42A	PB-2	171+45	172+55	LT								110					1						
42A	PB-3	172+45	177+25	LT								480											
42A	WEW-1	171+65	173+15	LT			150																
42A	WEW-2	171+55	177+25	LT			570																
42A	WIA-1		172+55	LT	1																		
42A	WDL-1	173+15	177+25	LT					410														
<b>SUBTOTALS THIS SHEET</b>					1	0	720	0	0	410	0	0	680	0	0	0	1	0	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>16</b>	1	19050	8647	10080	8681	585	0	6402	4130	3920	510	510	0	32	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>17</b>	1	0	7036	6192	15029	1076	0	2921	0	1840	0	250	0	237	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>18</b>	2	16840	10380	9795	6822	780	133	6616	6740	2310	1020	260	1	0	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>19</b>	2	13425	10807	6766	8936	624	0	0	6920	1800	1010	250	0	172	6				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>20</b>	1	9700	7805	7747	6117	420	100	0	3680	2020	520	260	1	273	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>21</b>	2	14210	8464	4605	9278	814	0	0	6670	0	1010	0	0	409	0				
<b>SUBTOTALS CARRIED FROM SHEET</b>				<b>22</b>	1	12390	4724	5565	5281	1446	0	0	4840	0	520	0	0	0	10				
<i>LINEAR TOTALS</i>				<i>FT</i>		85615	58583	50750															
<i>LINEAR TOTALS</i>				<i>MI</i>		16.215	11.095	9.612															
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					11	16.21	20.71	60144	6155	233	15939	33660	11890	4590	1530	3	1123	16					

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**MAINTENANCE OF TRAFFIC SUBSUMMARY**

**CUY-90-24.10 / 24.63**

23  
196

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SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
9	10	11	12	13	23	153				01/IMS/B R		EXT	TOTAL				
															STRUCTURE REPAIR (CUY-90-2463) CONT.		
						32				32		516	44201	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN, (3.128"x9.5"x18")	183
						48				48		516	44201	48	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN, (3.128"x14"x18")	183
						LS				LS		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	151
						181				181		518	21200	181	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
						336				336		518	40000	336	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
						80				80		518	40010	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
						250				250		519	11101	250	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	152
						775				775		526	25001	775	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	151
						322				322		526	90030	322	FT	TYPE C INSTALLATION	
						6				6		601	20000	6	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
						150				150		601	21001	150	SY	CONCRETE SLOPE PROTECTION, AS PER PLAN	152
						2,407				2,407		SPECIAL	60610920	2,407	SF	NOISE BARRIER, BRIDGE MOUNTED	152
						344				344		SPECIAL	60610920	344	SF	NOISE BARRIER, GROUND MOUNTED	152
						262				262		607	39901	262	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	182
																MAINTENANCE OF TRAFFIC	
		450								450		611	04401	450	FT	12" CONDUIT, TYPE B, AS PER PLAN	11
		300								300		611	97011	300	FT	SLOTTED DRAIN, TYPE 2, AS PER PLAN, 12"	11
		600								600		614	11110	600	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
										18		614	11500	18	MNTH	WORKSITE TRAFFIC SUPERVISOR	
		925								925		614	11630	925	FT	INCREASED BARRIER DELINEATION	
		LS								11		614	12336	11	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	
										LS		614	12420	LS		DETOUR SIGNING	
	10									10		614	12484	10	EACH	WORK ZONE INCREASED PENALTIES SIGN	
	5									5		614	12500	5	EACH	REPLACEMENT SIGN	
		7,000								7,000		614	12801	7,000	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	11
		1,290								1,290		614	13310	1,290	EACH	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL	
		71								71		614	13314	71	EACH	BARRIER REFLECTOR, TYPE 3, ONE-WAY	
										1,091		614	13350	1,091	EACH	OBJECT MARKER, ONE-WAY	
		3,600								3,600		614	18010	3,600	SF	MAINTAINING TRAFFIC, MISC.: DECK REPAIRS, AS DIRECTED	11
										36		614	18601	36	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12
				6.5	16.2					22.7		614	20110	22.7	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
				3.8	20.7					24.5		614	22110	24.5	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
				2,100	60,144					62,244		614	23210	62,244	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
				2,700	6,155					8,855		614	24200	8,855	FT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	
					233					233		614	28200	233	FT	WORK ZONE GORE MARKING, CLASS II, 642 PAINT	
										LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
					15,939					15,939		615	20001	15,939	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	13
					33,660					33,660		622	41000	33,660	FT	PORTABLE BARRIER, 32"	
					11,890					11,890		622	41011	11,890	FT	PORTABLE BARRIER, 50", AS PER PLAN	9
					4,590					4,590		622	41020	4,590	FT	PORTABLE BARRIER, 32", BRIDGE MOUNTED	
					1,530					1,530		622	41031	1,530	FT	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	9
					3					3		622	41050	3	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
		613			1,123					1,736		630	80300	1,736	SF	SIGN, TEMPORARY OVERLAY	
					16					29		630	89894	29	EACH	REMOVAL OF TEMPORARY OVERLAY SIGN AND DISPOSAL	
	108									108		808	18700	108	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																INCIDENTALS	
	LS									LS		614	11000	LS		MAINTAINING TRAFFIC	
										18		619	16020	18	MNTH	FIELD OFFICE, TYPE C	
										LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	6
										LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

CUY-90-24.10 / 24.63