

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY 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:

PUBLIC:
CLINTON COUNTY ENGINEERS
937-382-2078 (ADAM FRICKE)
africke@clintoncountyengineer.org

TELECOM:
AT&T OHIO
3233 WOODMAN DRIVE,
ROOM 225
DAYTON, OHIO 45420
937-296-3588 (HOWARD LAUDERMILK)
HL1596@att.com

TELECOM:
FRONTIER
241 S. NELSON AVENUE
WILMINGTON, OH 45177
CEL: 937-283-5735 (DAVE LONGWORTH)
David.M.Longworth@ftr.com

ELECTRIC:
DAYTON POWER AND
LIGHT COMPANY
1900 DRYDEN ROAD
DAYTON, OHIO 45439
937-331-4521 (BILL GOURLEY)
william.gourley@aes.com

GAS PIPELINE:
ENTERPRISE PRODUCTS OPERATING
513-304-0020 (TODD LUTES)
tjlutes@eprod.com

GAS PIPELINE:
TALL GRASS ROCKIES
EXPRESS PIPELINE
8233 OLD US 35 NW
WASHINGTON COURTHOUSE, OH
43160
513-623-2585 (ANDY HEITZMAN)
andrew.heiztman@tallgrassenergylp.com

GAS PIPELINE:
TEXAS EASTERN GAS
TRANSMISSION/ENBRIDGE CORP.
1157 SR 122 WEST
LEBANON, OHIO 45036
937-901-4154 (RAYMOND CLARKE)
raymond.clarke@enbridge.com

GAS TRANSMISSION:
JIM SCOTT - LAND REPRESENTATIVE
james.scott@tcenergy.com
740-304-4304

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 CLI-1-3.41 (1962); CLI-1-9.10/GRE-1-0.00 (1962); GRE-1-1.08/FAY-1-0.00 (1962); CLI-71-(0.00)(7.35) (1987); CLI/GRE-71-9.06/0.00 (1988); CLI/GRE-71-11.681/0.000 (1998); AND GRE-71-2.49 (2005) MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON.

SURVEYING PARAMETERS

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

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID03

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83/CORS 95
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC MAP
COORDINATE SYSTEM: OHIO STATE PLANE - SOUTH ZONE
COMBINED SCALE FACTOR: 0.999895367 (CLI-71-1213)
0.999895339 (CLI-71-1399)

UNITS ARE IN 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.

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.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 4 HOURS.

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.

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 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 CMS 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 THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

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.

CONTRACTOR COORDINATION

THE SOUTHBOUND 71 WEIGH STATION ON I-71 IS SCHEDULED TO BE REHABILITATED UNDER PROJECT CLI IR 71 11.21 WEIGH STATION (PID 116508) AND WILL NOT BE AVAILABLE FOR USE UNDER THIS CONTRACT.

€ CONTROL I-71			
DESCRIPTION	STATION	OFFSET	MONUMENT
CONC. MONUMENT	809+99.56	0.01 LT	POT 810+00
CONC. MONUMENT	815+00.00	0.05 RT	POT 815+00
CONC. MONUMENT	819+99.96	0.08 LT	POT 820+00
CONC. MONUMENT	825+00.16	0.04 RT	POT 825+00
CONC. MONUMENT	994+99.67	0.04 RT	POT 995+00
CONC. MONUMENT	999+99.88	0.01 LT	POT 1000+00
CONC. MONUMENT	1010+00.00	0.02 RT	POT 1010+00
CONC. MONUMENT	1015+00.13	0.01 RT	POT 1015+00
CONC. MONUMENT	1094+99.93	0.30 LT	POT 1095+00
CONC. MONUMENT	1100+00.08	0.13 LT	POT 1100+00
CONC. MONUMENT	1110+00.04	0.09 RT	POT 1110+00
CONC. MONUMENT	1114+99.98	0.04 LT	POT 1115+00
CONC. MONUMENT	1119+99.97	0.01 RT	POT 1120+00
CONC. MONUMENT	1200+00.51	0.03 RT	

BENCHMARKS				
NO#	DESCRIPTION	STATION	OFFSET	ELEV
BM1	CHISELED SQUARE IN CATCH BASIN	1000+97.34	20.94 RT	1026.12
BM2	BOLT IN OLD GR ANCHOR	1008+73.66	1.76 RT	1030.41
BM3	BOLT IN GR ANCHOR	1100+61.22	2.70 LT	1038.81
BM4	BENT BOLT IN OLD GR ANCHOR	1106+66.15	0.65 RT	1039.90

HORIZONTAL CONTROL POINTS									
POINT NUMBER	GRID COORDINATES (U.S. SURVEY FOOT)		GROUND COORDINATES (U.S. SURVEY FOOT)		STATION	OFFSET	ELEVATION		DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING					
CLI-71-1213									
CP#1	561,579.218	1,604,819.785	561,637.984	1,604,987.720	986+33.06	87.17 LT	1,029.650		SET IRON PIN WITH CAP
CP#2	561,510.298	1,605,165.465	561,569.057	1,605,333.436	989+35.06	94.52 RT	1,031.063		SET IRON PIN WITH CAP
CP#3	561,754.441	1,605,310.679	561,813.225	1,605,478.665	991+56.35	83.53 LT	1,029.070		SET IRON PIN WITH CAP
CP#4	561,935.092	1,605,765.732	561,993.895	1,605,933.766	996+46.40	88.94 LT	1,027.570		SET IRON PIN WITH CAP
CP#5	562,168.694	1,606,398.375	562,227.522	1,606,566.475	1003+20.72	79.62 LT	1,028.651		SET IRON PIN WITH CAP
CP#6	562,395.967	1,606,990.728	562,454.818	1,607,158.890	1009+55.18	78.88 LT	1,030.576		SET IRON PIN WITH CAP
CP#7	562,321.776	1,607,276.889	562,380.620	1,607,445.081	1011+95.57	93.18 RT	1,029.606		SET IRON PIN WITH CAP
CP#8	562,662.121	1,607,668.290	562,721.000	1,607,836.523	1016+83.13	83.79 LT	1,031.916		SET IRON PIN WITH CAP
CP#9	562,897.715	1,608,268.711	562,956.619	1,608,437.007	1023+28.10	87.91 LT	1,033.416		SET IRON PIN WITH CAP
CP#10	562,873.792	1,608,713.451	562,932.693	1,608,881.793	1027+34.54	94.22 RT	1,038.077		SET IRON PIN WITH CAP
CLI-71-1399									
CP#11	565,210.728	1,614,790.427	565,269.890	1,614,959.450	1092+44.84	96.92 RT	1,035.183		SET IRON PIN WITH CAP
CP#12	565,472.278	1,615,466.020	565,531.467	1,615,635.114	1099+69.30	95.59 RT	1,036.003		SET IRON PIN WITH CAP
CP#13	566,059.511	1,616,487.574	566,118.762	1,616,656.775	1111+33.63	85.36 LT	1,040.143		SET IRON PIN WITH CAP
CP#14	565,953.651	1,616,691.938	566,012.890	1,616,861.160	1112+86.31	86.86 RT	1,040.013		SET IRON PIN WITH CAP
CP#15	566,394.874	1,617,355.246	566,454.160	1,617,524.538	1120+63.86	86.56 LT	1,042.318		SET IRON PIN WITH CAP

CALCULATED BY: BJJ
CHECKED BY: BJJ
GENERAL NOTES
CLI-71-(12.13)(13.99)
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ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS WEB PAGE FOR ROADWAY STANDARDS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

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

WORK ZONE LANE LINE, CLASS I, AS PER PLAN

WORK ZONE LANE LINE SHALL BE A SOLID LINE, 6" IN WIDTH

ITEM 615 - ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN

THE CONTRACTOR MAY ELECT TO LEAVE ITEM 615-PAVEMENT FOR MAINTAINING TRAFFIC IN PLACE AT THE PROJECT'S COMPLETION. IN ORDER TO WAIVE THE REQUIREMENTS IN CMS 615.08 AND LEAVE THE PAVEMENT FOR M.O.T. IN PLACE, THE FOLLOWING REQUIREMENTS SHALL BE MET:

- 1) PAVEMENT FOR M.O.T. BUILDUP SHALL BE FLEXIBLE AS PER CMS 615.05.
- 2) PAVEMENT BUILDUP SHALL NOT WAIVE THE 6" ITEM 304 AS PER CMS 615.05. FOOTNOTE [4] DOES NOT APPLY.

PAYMENT FOR ALL WORK ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 615 - ROADS FOR MAINTAINING, AS PER PLAN. IF THE CONTRACTOR ELECTS TO REMOVE THE PAVEMENT FOR M.O.T. AT THE PROJECT'S COMPLETION THEN THIS ITEM SHALL MEET ALL THE REQUIREMENTS OF CMS 615.

ITEM 614 - 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 OCT. 15th THROUGH APRIL 1st.

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 CMS 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 CMS 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 SURFACE COURSE OF THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH EQUIVALENT TO A DEPTH NECESSARY TO REACH THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

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.

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKERS ON PERMANENT CONCRETE SURFACES

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMS ARE INTENDED FOR USE ONLY DURING THE NON-SNOW-PLOWING SEASON. WZRPMS SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCT. 15th THROUGH APRIL 1st.

WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS.

SEE ESTIMATED QUANTITIES FOR ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

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 PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: 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 ONE WAY 142 EACH
- ITEM 614, OBJECT MARKER, ONE-WAY 142 EACH
- ITEM 614, INCREASED BARRIER DELINEATION 800 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.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL AND ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET, WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

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

- ITEM 614, BARRIER REFLECTOR, TYPE 3 ONE WAY - 82 EACH
- ITEM 614, OBJECT MARKER, ONE WAY - 82 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

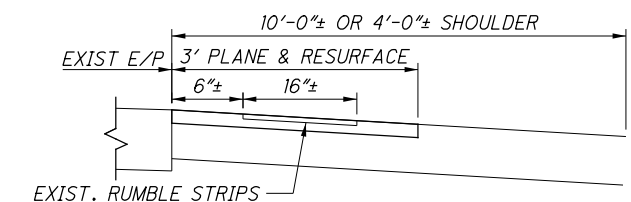
TEMPORARY PAVEMENT WEDGE

TEMPORARY PAVEMENT WEDGES SHALL BE PROVIDED AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A PAVEMENT SURFACE OF A DIFFERENT ELEVATION. THE MINIMUM SLOPE OF THE TEMPORARY PAVEMENT WEDGE SHALL BE 3:1 ALONG LONGITUDINAL JOINTS AND 120:1 AT TRANSVERSE JOINTS. THESE WEDGES SHALL BE REMOVED PRIOR TO PLACING THE SPECIFIED PAVEMENT COURSE. PAYMENT FOR ALL WORK, MATERIALS, ETC. ASSOCIATED WITH THIS ITEM SHALL BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC LUMP SUM.

RUMBLE STRIP REMOVAL

PRIOR TO SHIFTING TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER FOR MAINLINE BRIDGES (CLI-71-1213 L/R & CLI-71-1399 L/R) PHASE 1, REMOVE THE EXISTING RUMBLE STRIPS BY PLANING AND RESURFACING PER THE DETAIL BELOW. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK:

- ITEM 254 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE 8200 SQUARE YARDS
- ITEM 442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) 342 CUBIC YARDS



DETAIL - RUMBLE STRIP REMOVAL

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