UTILITIES

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

AT&T
13630 LORAIN ROAD
CLEVELAND, OH 44111
ATTN: SCOTT KLEBE
216-476-6057

CHARTER COMMUNICATIONS
7 SEVERANCE CIRCLE
CLEVELAND HEIGHTS, OH 44118
ATTN: JOSH CURTIS, PAT SANTOIEMMO

CROWN CASTLE
15565 NEO PARKWAY
GARFIELD HEIGHTS, OH 44128
ATTN: JON TARNOWSKI
614-940-2462

CWD CLEVELAND WATER
1201 LAKESIDE AVENUE
CLEVELAND, OH 44114
ATTN: FRED ROBERTS
216-664-2444 X 75556

DOMINION ENERGY
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
ATTN: BRYAN DAYTON, EVAN DEMPSEY
330-664-2409

EVERSTREAM SOLUTIONS
1228 EUCLID AVENUE, SUITE 250
CLEVELAND, OH 44115
ATTN: ROBERT WOOD
440-728-0542

FIRST ENERGY - CEI
6896 MILLER ROAD, SUITE 101
BRECKSVILLE, OH 44141
ATTN: TED RADER, JOHN ZASSICK
440-546-8738

LEVEL 3, CENTURY LINK
100 S. CINCINNATI AVENUE, SUITE 1200
TULSA, OK 74103
ATTN: KENDALL WILLIAMS - ZETINA
918-547-0547

NORTHEAST OHIO REGIONAL SEWER DISTRICT
3900 EUCLID AVENUE
CLEVELAND, OH 44115
ATTN: MARY MACIEJOWSKI
216-881-6600 X 6466

SUNOCO PIPELINES
524 FRITZTOWN ROAD
SINKING SPRINGS, PA 19608
ATTN: DEB SCHNECK
610-670-3258

MCI - WORLDCOM
120 RAVINE STREET
AKRON, OH 44303
ATTN: AL GUEST
330-253-8267

VILLAGE OF VALLEY VIEW
7979 HUB PARKWAY
VALLEY VIEW, 44125
ATTN: PAUL DEY
216-642-1130 X 104

CITY OF INDEPENDENCE
6800 BRECKSVILLE ROAD
INDEPENDENCE, OH 44131
ATTN: DONALD J. RAMM
216-524-1374

WIDE OPEN WEST (WOW)
105 BLAZE INDUSTRIAL PARKWAY
BEREA, OH 44017
ATTN: LARRY BURRUEL
410-915-9256

WINDSTREAM
205 S. HAMBDEN STREET
CHARDON, OH 44024
ATTN: THOMAS KULKA
440-285-5528

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

CALL OHIO811 TWO (2) WORKING DAYS BEFORE YOU DIG
TOLL FREE NO. 1-800-362-2764 OR 811

NON-MEMBERS MUST BE CALLED DIRECTLY

DOMINION ENERGY OHIO

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION ENERGY'S PIPLINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION ENERGY OHIO'S (DEO) EXISTING PIPLINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION ENERGY OHIO'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUSER (330-478-3757).

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 SUBSIDIARY AGREEMENT GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM AND SURVEYING PARAMETERS

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

HORIZONTAL COORDINATES ARE TO BE PROJECT GROUND COORDINATES EXPRESSED IN U.S. SURVEY FEET BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE AND REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND THE 2011 CORS ADJUSTMENT. THE COMBINED SCALE FACTOR IS TO BE INCLUDED WITH THE PROJECT CONTROL INFORMATION FOR THE PROJECT.

VERTICAL CONTROL IS TO BE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD 88
GEOID:	G12B

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD 83 (CONUS)(MOL)
ELLIPSOID:	GRS 80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO STATE PLANE - NORTH ZONE
COMBINED SCALE FACTOR:	1.0000744100 (GRID TO GROUND)
ORIGIN OF SYSTEM:	(0,0)

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION, AND OPERATION (INCLUDING ERECTION, MAINTENANCE AND REMOVAL) OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

EXISTING TYPICAL SECTIONS

EXISTING TYPICAL SECTIONS HAVE BEEN DEVELOPED FROM SITE MEASUREMENTS, PAVEMENT CORES AND RECORD PLANS AND ARE BELIEVED TO REPRESENT THE WIDTH AND COMPOSITION OF THE EXISTING PAVEMENT, BUT THE COUNTY DOES NOT GUARANTEE THE ACCURACY OF SAME.

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN

THE FIELD OFFICE SHALL, IN ADDITION TO THE ITEMS LISTED IN ITEM 619, BE FURNISHED WITH TWO CELLULAR TELEPHONES.

THE CONTRACTOR'S INSURANCE SHALL INCLUDE A RIDER FOR COVERAGE OVER ANY CUYAHOGA COUNTY PROPERTY INSIDE THE FIELD OFFICE WHICH MAY BECOME DAMAGED OR STOLEN.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THIS ITEM:

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN 22 MNTH

LOCAL LAWS, ORDINANCES AND REGULATIONS

IN ACCORDANCE WITH SECTION 107.01 OF THE GENERAL PROVISIONS, THE CONTRACTOR SHALL STAY FULLY INFORMED OF ALL LOCAL LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES THAT AFFECT THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE AND COMPLY WITH ALL SUCH LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES AT NO ADDITIONAL COST TO THE PROJECT/COUNTY.

ADJUSTMENTS IN CONTRACT TIME

TIME EXTENSIONS WILL ONLY BE CONSIDERED WHEN CONTROLLING ITEMS OF WORK ON THE APPROVED PROGRESS SCHEDULE ARE AFFECTED DUE TO NO FAULT OF THE CONTRACTOR.

WHEN ADDITIONAL WORK IS REQUIRED, TIME EXTENSIONS WILL ONLY BE GRANTED FOR CONTROLLING ITEMS ON THE PROGRESS SCHEDULE (SEE SECTION 108.06 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS).

PROJECT PROGRESS MEETINGS

PROGRESS MEETINGS WILL BE HELD EVERY FOUR (4) WEEKS AT THE PROJECT OFFICE OR OTHER LOCATION DESIGNATED BY THE AREA CONSTRUCTION ENGINEER, AND WILL BE ATTENDED BY COUNTY AND CONTRACTOR DECISION-MAKING PERSONNEL.

THE PURPOSE OF THESE MEETINGS IS TO DISCUSS CRITICAL OPERATIONS AND POTENTIAL PROBLEMS. ALSO, THE CONTRACTOR WILL CONFIRM THE NUMBER AND DURATION OF WORK SHIFTS, NUMBER OF WORK CREWS, AND SPECIFIC PORTIONS OF THE WORK TO BE PERFORMED DURING THE FOLLOWING WEEKS.

THESE MEETINGS CAN ONLY BE WAIVED BY THE AREA CONSTRUCTION ENGINEER.

FLOODPLAIN PERMIT

FLOODPLAIN PERMIT SHALL BE POSTED IN A CONSPICUOUS LOCATION, SUCH AS AT THE FIELD OFFICE OR ON THE PROJECT BULLETIN BOARD, FOR THE DURATION OF THE PROJECT.

DEFINITIONS AND TERMS

WHEREVER THERE APPEARS, IN THE STANDARD SPECIFICATIONS (ODOT ITEMIZED CMS), SUPPLEMENTAL SPECIFICATIONS OR PROPOSAL NOTES, THE TERM "THE STATE", "DIRECTOR OF TRANSPORTATION", "DEPARTMENT", "DISTRICT CONSTRUCTION ENGINEER/DISTRICT CONSTRUCTION ADMINISTRATOR (DCA)", "ENGINEER", OR ANY OTHER TERM DESIGNATING ANY REPRESENTATIVE OR EMPLOYEE OF THE STATE OR ITS DEPARTMENT OF TRANSPORTATION, SUCH TERM SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING AND DESIGNATING THE RESPECTIVE OFFICER OR EMPLOYEE OF CUYAHOGA COUNTY WHOSE DUTY OR FUNCTION IT IS TO DEAL WITH THE SUBJECT MATTER IN CONNECTION WITH WHICH SUCH TERM IS USED AND SPECIFICALLY:

THE STATE - MEANS CUYAHOGA COUNTY.
DEPARTMENT - MEANS THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR - MEANS THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS, HIS/HER DEPUTIES, OR ANY ENGINEER DESIGNATED AS THE DIRECTOR'S REPRESENTATIVE.
DISTRICT CONSTRUCTION ENGINEER (DCE)/DISTRICT CONSTRUCTION ADMINISTRATOR (DCA) OR ENGINEER - MEANS THE AREA CONSTRUCTION ENGINEER, OR THE DULY AUTHORIZED AGENT OR REPRESENTATIVE OF THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS, ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR THE PURPOSES OF CONSTRUCTION ENGINEERING AND ADMINISTRATION OF THE CONTRACT.
LABORATORY - MEANS ANY LABORATORY DESIGNATED BY THE COUNTY.

GENERAL PROVISIONS

ALL REFERENCES TO THE GENERAL PROVISIONS (SECTION 100) OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS) THAT ARE CITED IN THE ITEMIZED SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, PROPOSAL NOTES, PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS AS CONTAINED IN THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET". THE SUBSECTION NUMBERS AND TOPICS USED IN THE COUNTY'S GENERAL PROVISIONS CORRESPOND TO THOSE CONTAINED IN THE ODOT CMS.

COOPERATION BETWEEN CONTRACTORS

IT IS ANTICIPATED THAT OTHER CONTRACTORS MAY BE WORKING ON PROJECTS ADJACENT TO OR WITHIN THE LIMITS OF THIS PROJECT, EITHER FOR THE COUNTY OR FOR OTHER PUBLIC AGENCIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS/HER OPERATIONS, INCLUDING PROVISIONS FOR THE MAINTENANCE OF TRAFFIC, WITH THE CONTRACTORS OF OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THIS CONTRACT. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DRAWN TO SECTION 105.08 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS. NO WAIVER OF ANY OF THE PROVISIONS OF SECTION 105.08 IS INTENDED.

AS A SEPARATE PROJECT, DOMINION ENERGY WILL BE RELOCATING THEIR EXISTING GAS LINE THAT RUNS UNDER THE CUYAHOGA RIVER. IT WILL BE TEMPORARILY CONNECTED TO THE TEMPORARY BRIDGE BUILT FOR THIS PROJECT UNTIL IT CAN BE PERMANENTLY RELOCATED ONTO THE PERMANENT BRIDGE 00.42. THE CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY AND DOMINION ENERGY'S CONTRACTOR SO THAT THE SUBSEQUENT CONTRACTORS MAY COMPLETE THEIR PROPOSED WORK, INCLUDING MAINTENANCE OF TRAFFIC.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER	12	MGAL
ITEM 616 - CALCIUM CHLORIDE	1.2	TON

ADDENDUM 1

CALCULATED VLE CHECKED JTP

GENERAL NOTES

CUY - OLD ROCKSIDE ROAD

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CONSTRUCTION WARNING SIGNS

IMMEDIATELY PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION WARNING SIGNS AS DESCRIBED BELOW.

AS A MINIMUM, G20-1 SIGNS FACING TRAFFIC ENTERING THE PROJECT, AND G20-2 SIGNS FACING TRAFFIC LEAVING THE PROJECT, SHALL BE PLACED AS SHOWN IN THE MANUAL. ADDITIONAL G20-1 SIGNS SHALL BE PLACED AFTER EACH MAJOR INTERSECTION, IN BOTH DIRECTIONS, AND AFTER EACH SUSPENSION AND RESUMPTION OF WORK.

ADDITIONALLY, A W20-1 SIGN SHALL BE PLACED ON EACH INTERSECTING STREET A MINIMUM OF 200 FEET IN ADVANCE OF THE PROJECT, AND ON THE APPROACHES TO THE PROJECT A MINIMUM OF 500 FEET IN ADVANCE OF THE WORK LIMITS. G20-2 SIGNS SHALL ALSO BE INSTALLED ON EACH MAJOR INTERSECTING STREET, FACING TRAFFIC LEAVING THE PROJECT, A MINIMUM OF 200 FEET FROM THE PROJECT.

THE TRAFFIC CONTROL DEVICES SHOWN ON MT-97.10 AND MT-97.11 SHALL BE IN ADDITION TO THOSE INDICATED ABOVE. IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ALSO INSTALL W8-11 "UNEVEN LANES", W8-7 "LOOSE GRAVEL," AND/OR W21-2 "FRESH OIL/TAR" SIGNS.

FLUORESCENT ORANGE TYPE G SIGN SHEETING SHALL BE USED FOR ALL DETOUR AND CONSTRUCTION WARNING SIGNS. NO SEPARATE PAYMENT FOR THESE SIGNS WILL BE MADE. THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING THESE SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614-MAINTAINING TRAFFIC.

ITEM 614 - BARRIER REFLECTORS AND OBJECT MARKERS

BARRIER REFLECTORS TYPE 1, BIDIRECTIONAL, AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL, AND BARRIER REFLECTORS TYPE 3, BIDIRECTIONAL, SHALL BE INSTALLED ON ALL GUARDRAIL USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS AND OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO ITEM 626 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWING MT-101.70, EXCEPT THAT THE SPACING SHALL BE 25 FEET.

AN ESTIMATED QUANTITY OF THE FOLLOWING HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - OBJECT MARKER, TWO WAY
30 EACH

ITEM 614 - BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL
30 EACH

ITEM 614 - BARRIER REFLECTOR, TYPE 3, BIDIRECTIONAL
6 EACH

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

TEMPORARY RAMPING OF VERTICAL SURFACES AND TRENCH MAINTENANCE (AS DIRECTED)

IN ORDER TO PROVIDE FOR LOCAL ACCESS, LONGITUDINAL VERTICAL FACES ABUTTING DRIVES SHALL BE TEMPORARILY RAMPED. TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM OF TEN (10) FEET IN LENGTH AND TRAFFIC SHALL BE WARNED WITH W8-1 "BUMP" SIGNS IN ADVANCE OF THE RAMPED AREAS.

CONTRACTOR SHALL MAINTAIN UTILITY TRENCHES USING THE QUANTITIES LISTED BELOW AS DIRECTED BY THE ENGINEER.

ALL CASTINGS ENCOUNTERED SHALL BE SET TO GRADE AND PAID FOR UNDER VARIOUS ITEMS DESCRIBED ELSEWHERE IN THE GENERAL NOTES OR SPECIFICATIONS. THE CASTING ELEVATION DIFFERENTIAL SHALL NOT BE GREATER THAN ONE (1) INCH WHEN EXPOSED TO TRAFFIC.

ALL TEMPORARY RAMPING SHALL BE INSTALLED, AT THE DIRECTION OF THE ENGINEER, USING ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
20 CY

ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE A OR B
15 CY

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP
20 SY

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

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 OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, 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 REQUIREMENTS OF CMS 614 AND THE OMUTCD, 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 AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH 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.

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
40 HOUR

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.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST 72 HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGE IN TRAFFIC PATTERN OR CLOSING ANY STREET TO TRAFFIC:

VALLEY VIEW POLICE DEPARTMENT
DAVID NIRO, CHIEF OF POLICE
dniro@valleyview.net
PHONE: 216-524-9687

VALLEY VIEW FIRE DEPARTMENT
KENNETH PAPESH, FIRE CHIEF
kpapesh@valleyview.net
PHONE: 216-524-5886

VALLEY VIEW SERVICE DEPARTMENT
LADD SOLDAT
servicedepartment@valleyview.net
PHONE: 216-524-1087

CUYAHOGA HEIGHTS BOARD OF EDUCATION
MARK DOBBINS, PRESIDENT
markdobbins@cuyhts.org
PHONE: 216-926-5889

CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS PUBLIC INFORMATION CENTER
PHONE: 216-348-3824

THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 PUBLIC INFORMATION OFFICE
AMANDA MCFARLAND
PHONE: 216-584-2005

INDEPENDENCE POLICE DEPARTMENT
MICHAEL KILBANE, CHIEF OF POLICE
kilbanemindependenceohio.org
PHONE: 216-524-1234

INDEPENDENCE FIRE DEPARTMENT
STEVE REGA, FIRE CHIEF
PHONE: 216-524-5886

INDEPENDENCE SERVICE DEPARTMENT
LEON KARAS, SERVICE DIRECTOR
PHONE: 216-524-9191

INDEPENDENCE BOARD OF EDUCATION
LYNNE LASKI, PRESIDENT
llaski@independence.k12.oh.us
PHONE: 216-926-5889

CUYAHOGA COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
PHONE: 216-241-8230

UNITED STATES POSTAL SERVICE
6509 BRECKSVILLE ROAD
INDEPENDENCE, OH 44131
PHONE: 800-275-8777

ITEM 615 - ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN

CONSTRUCT ROADS FOR MAINTAINING TRAFFIC, AS FOR PLAN, PER ODOT CMS 615 EXCEPT AS NOTED HEREIN. INCLUDE PAYMENT FOR ALL WORK NECESSARY TO CONSTRUCT, MAINTAIN AND REMOVE THE TEMPORARY ROADWAY AND ANCILLARY ITEMS PER 615.08 AND 615.10 UNLESS ITEMIZED ELSEWHERE IN THESE PLANS. THE MAINTENANCE OF TRAFFIC SUBSUMMARY ON SHEET 45 OF 157 ITEMIZES SEVERAL PAY ITEMS THAT WOULD TYPICALLY BE INCLUDED IN THE ROADS FOR MAINTAINING TRAFFIC PAY ITEM.

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

CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN, PER ODOT CMS 615 EXCEPT AS NOTED HEREIN. CONTRACTOR MAY USE RIGID OR FLEXIBLE PAVEMENT AT THEIR DISCRETION TO OPTIMIZE EFFICIENCY AND MAINTAIN PROJECT SCHEDULE. MAINTENANCE OF TRAFFIC TEMPORARY ROAD CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON A FLEXIBLE PAVEMENT SECTION AS SHOWN IN THE CMS. IF RIGID PAVEMENT IS USED FOR THIS ITEM, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED MAINTENANCE OF TRAFFIC TEMPORARY ROAD ELEVATIONS. PAYMENT FOR ANY ADDITIONAL EMBANKMENT IS INCLUDED IN THE SQUARE YARD BASIS FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN. NO DEDUCTIONS TO EARTHWORK PLAN QUANTITIES WILL BE MADE IN CUT SECTIONS FOR ANY REDUCTION IN EXCAVATION THAT WILL RESULT FROM PLACING A THINNER RIGID PAVEMENT SECTION.

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

CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, PER ODOT CMS 615 EXCEPT AS NOTED HEREIN. CONTRACTOR MAY USE RIGID OR FLEXIBLE PAVEMENT AT THEIR DISCRETION TO OPTIMIZE EFFICIENCY AND MAINTAIN PROJECT SCHEDULE. MAINTENANCE OF TRAFFIC TEMPORARY ROAD CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON A FLEXIBLE PAVEMENT SECTION AS DETAILED IN THE TEMPORARY PARKING LOT AND DRIVE PAVEMENT DETAIL ON SHEET 16 OF 157. IF RIGID PAVEMENT IS USED FOR THIS ITEM, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED PARKING LOT AND DRIVE ELEVATIONS. PAYMENT FOR ANY ADDITIONAL EMBANKMENT IS INCLUDED IN THE SQUARE YARD BASIS FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN. NO DEDUCTIONS TO EARTHWORK PLAN QUANTITIES WILL BE MADE IN CUT SECTIONS FOR ANY REDUCTION IN EXCAVATION THAT WILL RESULT FROM PLACING A THINNER RIGID PAVEMENT SECTION.

CALCULATED SAF CHECKED JTP

MAINTENANCE OF TRAFFIC NOTES

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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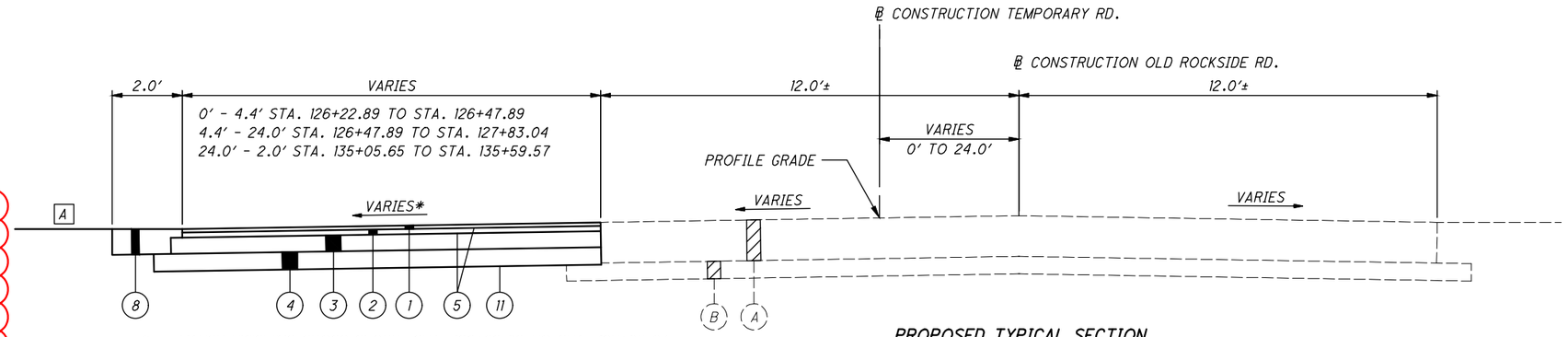
TYPICAL SECTION - TEMPORARY ROAD

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

[A] SEE CROSS SECTIONS FOR GRADING, SEE SHEETS 25 THROUGH 29.

NOTE: TEMPORARY ROAD PAVEMENT COMPOSITIONS SHOW FLEXIBLE PAVEMENT PER ODOT ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. CONTRACTOR MAY USE RIGID PAVEMENT AT THEIR DISCRETION TO OPTIMIZE EFFICIENCY AND MAINTAIN PROJECT SCHEDULE. SEE ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN, NOTE ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.



* MATCH EXISTING CROSS SLOPE STA. 126+22.89 TO STA. 127+83.04
-0.0314 TO -0.0588 STA. 135+05.65 TO STA. 135+59.57

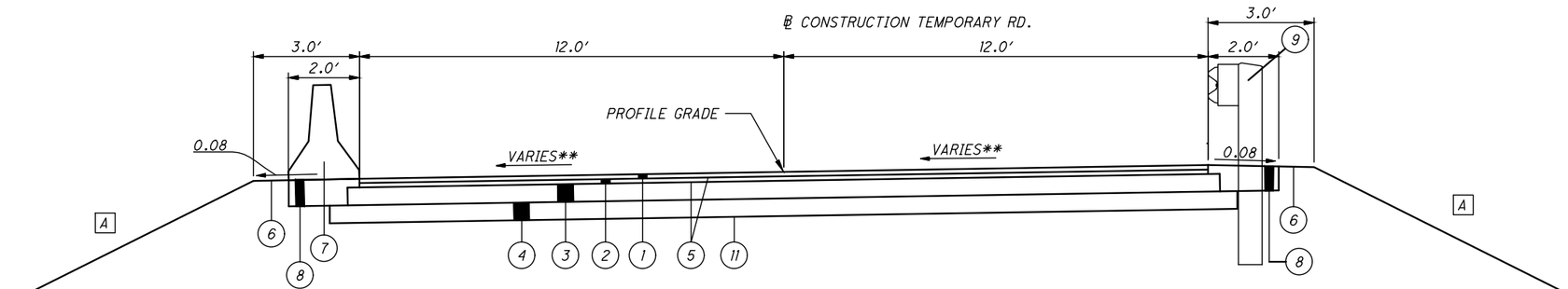
PROPOSED TYPICAL SECTION
STA. 126+22.89 TO STA. 127+83.04
STA. 135+05.65 TO STA. 135+59.57

LEGEND

1. ITEM 441 - 1.25″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, AS PER PLAN
2. ITEM 441 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG64-22, AS PER PLAN
3. ITEM 302 - 5.5″ ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN
4. ITEM 304 - 6″ AGGREGATE BASE, AS PER PLAN
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 659 - SEEDING AND MULCHING
7. ITEM 622 - PORTABLE BARRIER (LOCATION PER MAINTENANCE OF TRAFFIC PLAN SHEETS)
8. ITEM 304 - 8.5″ AGGREGATE BASE, AS PER PLAN
9. ITEM 606 - GUARDRAIL, TYPE MGS (LOCATION PER MAINTENANCE OF TRAFFIC PLAN SHEETS)
10. ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=15″), AS PER PLAN
11. ITEM 204 - SUBGRADE COMPACTION

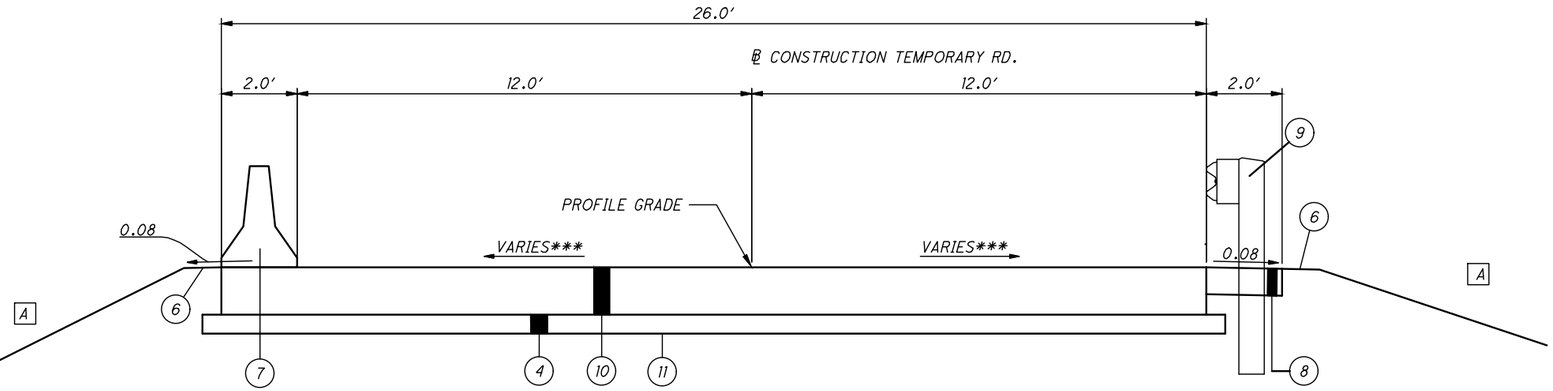
(A) ASPHALT CONCRETE PAVEMENT, THICKNESS VARIES 8″ - 16″

(B) AGGREGATE BASE, THICKNESS VARIES 4″ - 12″



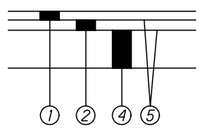
PROPOSED TYPICAL SECTION
STA. 127+83.04 TO STA. 130+60.71
STA. 133+14.86 TO STA. 135+05.65

** 0.016 STA. 127+83.04 TO STA. 130+55.00
0.016 TO 0.0125 STA. 130+55.00 TO STA. 130+60.71
0.00 TO STA. 0.016 STA. 133+14.86 TO STA. 133+40.77
0.016 STA. 133+40.77 TO STA. 134+28.82
0.016 TO -0.0314 STA. 134+28.82 TO STA. 135+05.65



PROPOSED APPROACH SLAB SECTION
STA. 130+60.71 TO STA. 130+85.71
STA. 132+89.86 TO STA. 133+14.86

*** 0.0125 TO 0.00 STA. 130+60.71 TO STA. 130+80.92
0.00 STA. 130+80.92 TO STA. 130+85.71
0.00 STA. 132+89.86 TO STA. 133+14.86

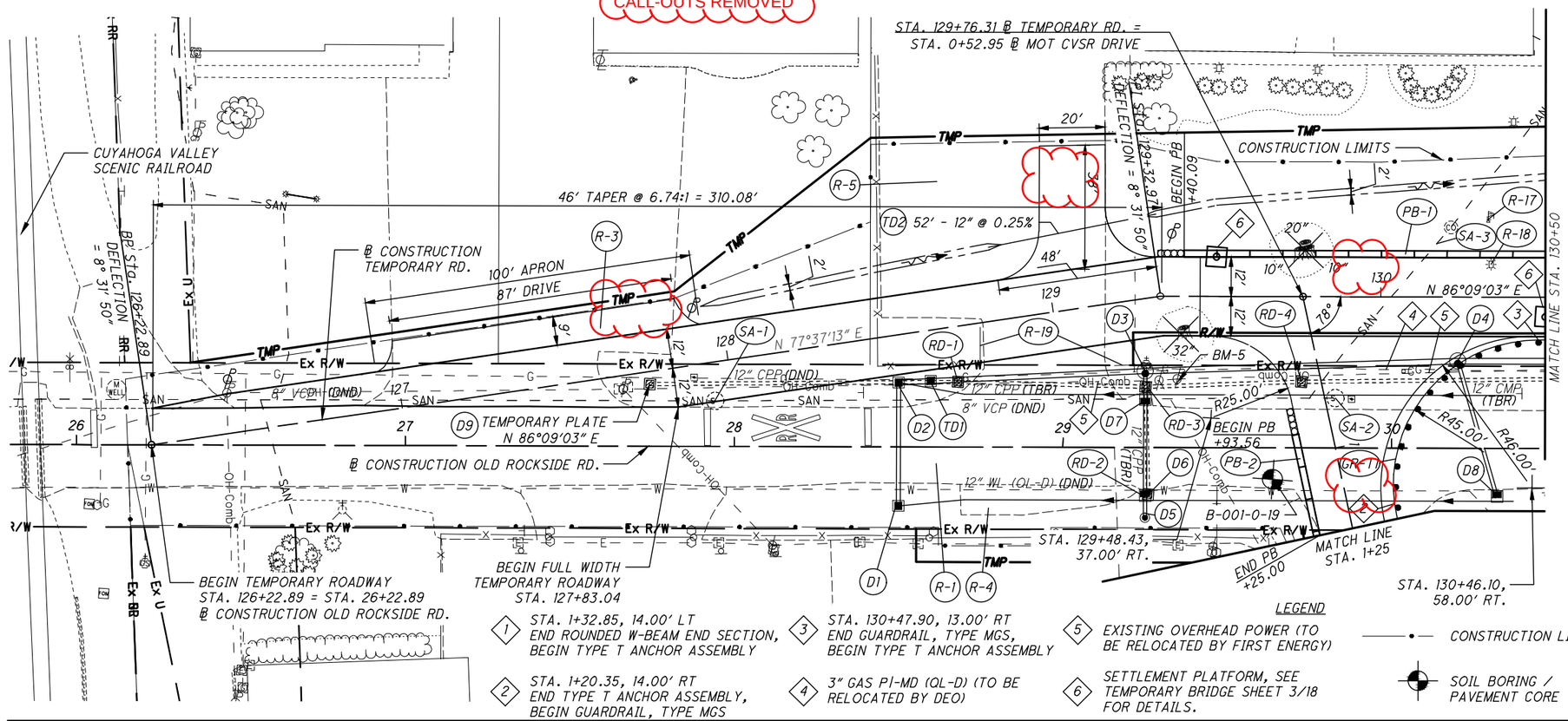


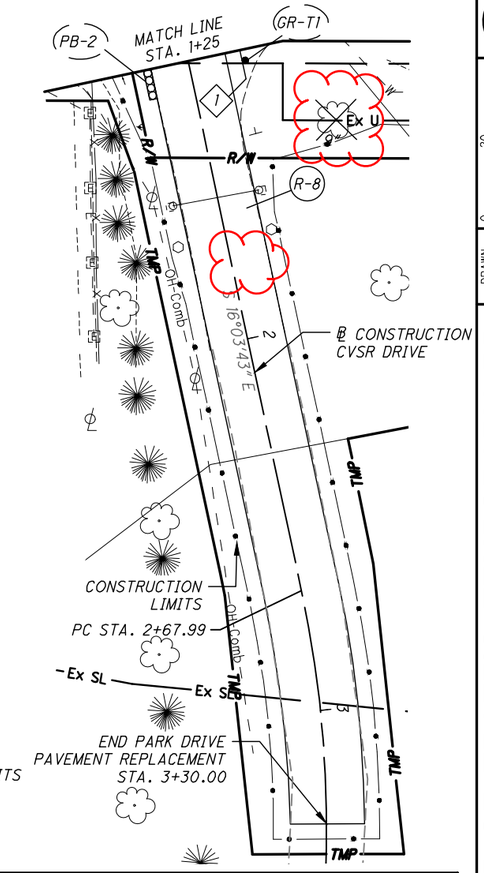
TEMPORARY PARKING LOT AND DRIVE PAVEMENT DETAIL

NOTE: USE THE TEMPORARY PARKING LOT AND DRIVE PAVEMENT BUILD-UP FOR TEMPORARY PAVEMENT AT 7909 OLD ROCKSIDE ROAD, 7919 OLD ROCKSIDE ROAD AND TEMPORARY CVSR DRIVE. AN ASPHALT PAVEMENT SECTION IS SHOWN, BUT CONTRACTOR MAY USE 7″ RIGID PAVEMENT AT THEIR DISCRETION TO OPTIMIZE EFFICIENCY AND MAINTAIN PROJECT SCHEDULE. SEE ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, NOTE ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.

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TR-1, TR-3, TR-4 & TR-5 CALL-OUTS REMOVED





1 STA. 1+32.85, 14.00' LT
END ROUNDED W-BEAM END SECTION, BEGIN TYPE T ANCHOR ASSEMBLY

2 STA. 1+20.35, 14.00' RT
END TYPE T ANCHOR ASSEMBLY, BEGIN GUARDRAIL, TYPE MGS

3 STA. 130+47.90, 13.00' RT
END GUARDRAIL, TYPE MGS, BEGIN TYPE T ANCHOR ASSEMBLY

4 3" GAS P1-MD (QL-D) (TO BE RELOCATED BY DEO)

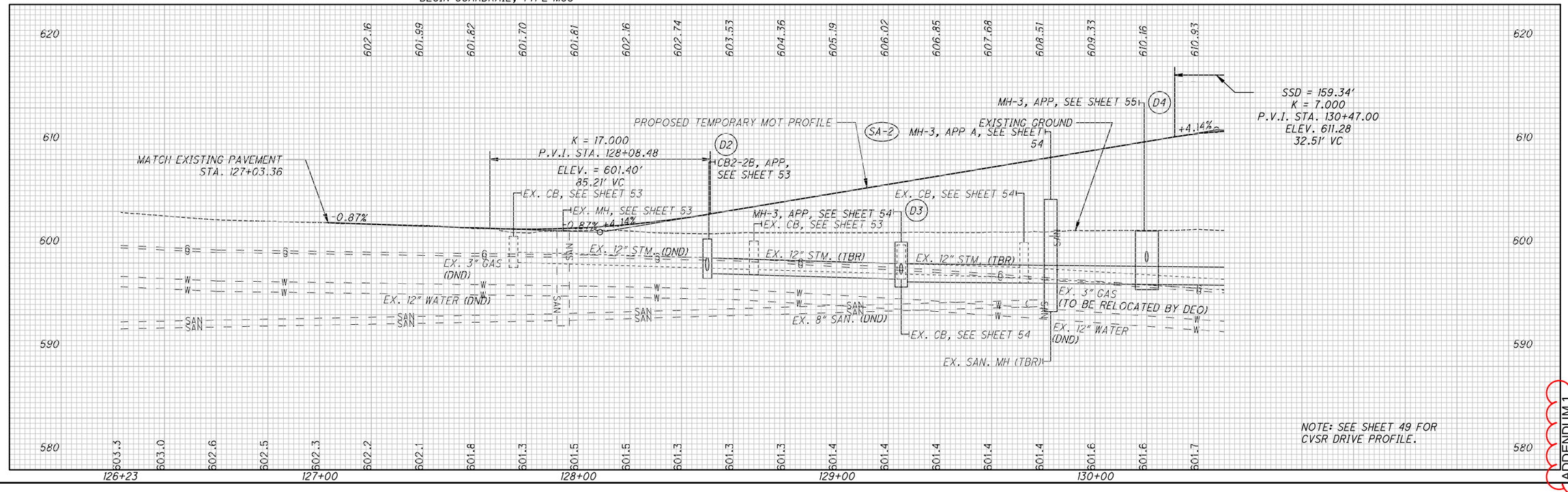
5 EXISTING OVERHEAD POWER (TO BE RELOCATED BY FIRST ENERGY)

6 SETTLEMENT PLATFORM, SEE TEMPORARY BRIDGE SHEET 3/18 FOR DETAILS.

LEGEND

CONSTRUCTION LIMITS

SOIL BORING / PAVEMENT CORE



NOTE: SEE SHEET 49 FOR CVSR DRIVE PROFILE.

HORIZONTAL SCALE IN FEET 0 10 20 40

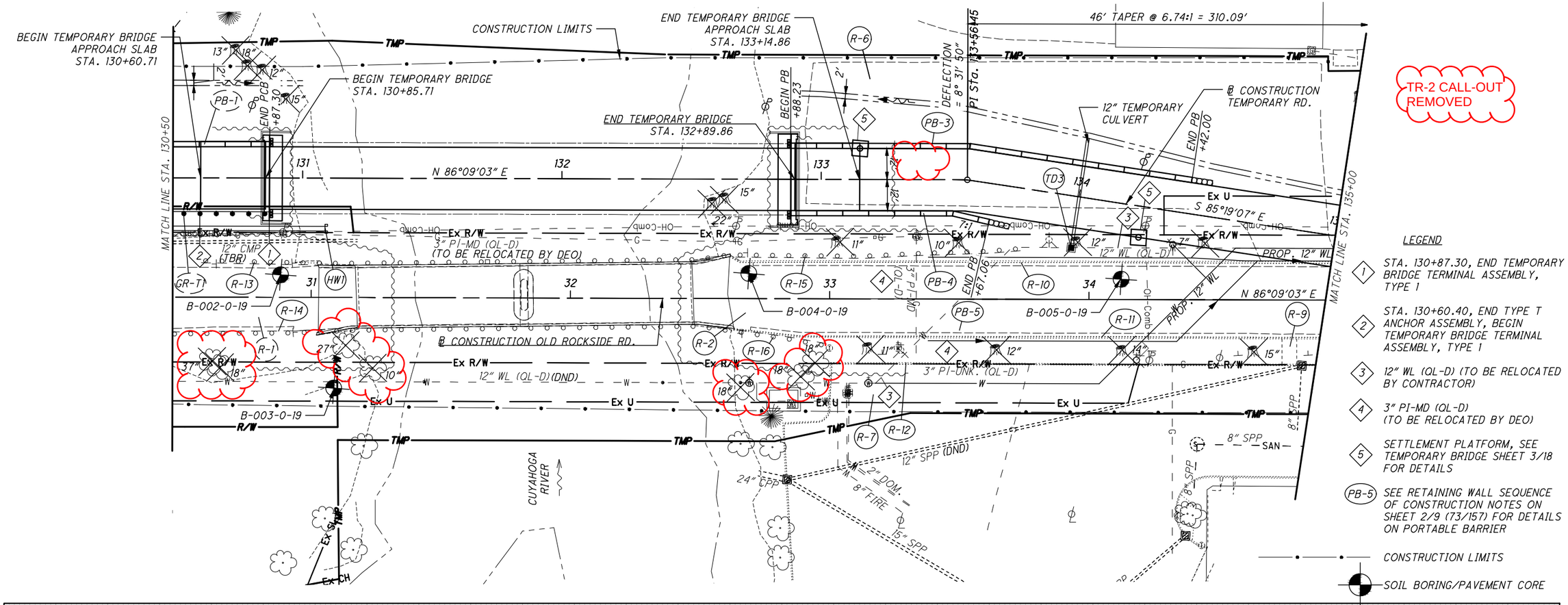
DRAWN VLE CHECKED JTP

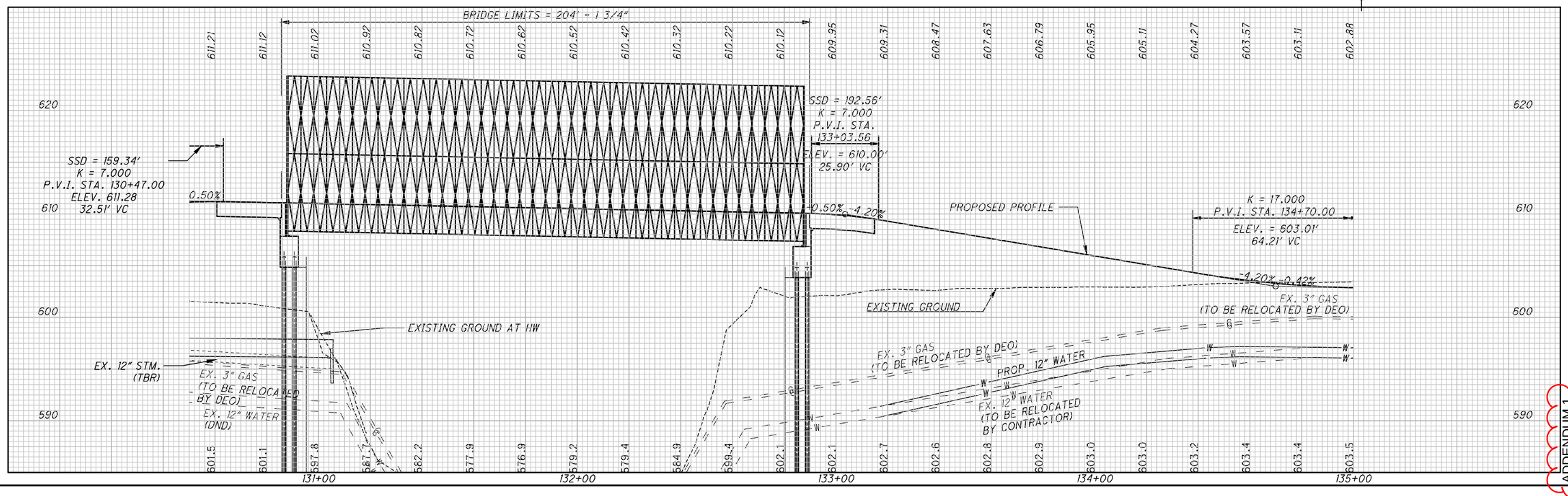
MAINTENANCE OF TRAFFIC TEMPORARY RD. PLAN & PROFILE STA. 126+22.89 TO 130+50

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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HORIZONTAL SCALE IN FEET
0 10 20 40
DRAWN VLE CHECKED JTP

MAINTENANCE OF TRAFFIC TEMPORARY RD. PLAN & PROFILE STA. 130+50 TO 135+00

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

23
157

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TR-2 CALL-OUT REMOVED

STA. 135+07.58, 62.00' LT.

CONSTRUCTION LIMITS

46' TAPER @ 6.76:1 = 310.09'

℄ CONSTRUCTION TEMPORARY RD.

DEFLECTION = 8° 31' 50"

EP Sta. 136+66.54

PI Sta. 37+91.25

EP Sta. 38+09.05

MATCH LINE STA. 135+00

PROP. 12" WL

℄ CONSTRUCTION OLD ROCKSIDE RD.

N 86°09'03" E

S 85°19'07" E

END TEMPORARY RD. STA. 136+66.54
= STA. 36+59.68 ℄ CONSTRUCTION OLD ROCKSIDE RD.

END FULL WIDTH TEMPORARY PAVEMENT STA. 135+05.65

STA. 35+62.81 ℄ CONSTRUCTION OLD ROCKSIDE RD. = STA. 202+94.88 ℄ W. CANAL RD.

OHIO/ERIE CANAL

W. CANAL RD. 202

CANAL RD. 105

LEGEND

CONSTRUCTION LIMITS

SOIL BORING/PAVEMENT CORE

K = 17.000
P.V.I. STA. 134+70.00
ELEV. = 603.01'
64.21' VC

PROPOSED PROFILE

MATCH EXISTING PAVEMENT STA. 135+35.77

EXISTING GROUND

-0.42%

EX. 12" WATER (DND)

EX. 8" SAN (DND)

602.88 602.80

620 610 600 590

603.5 603.7 602.8 602.9 602.9 602.9 603.1 603.5 603.6 603.5 602.7 602.2 602.3 602.5 602.6 602.7 602.2

135+00 136+00 136+67 37+00 38+00

HORIZONTAL SCALE IN FEET

DRAWN VLE CHECKED JTP

MAINTENANCE OF TRAFFIC TEMPORARY RD.
PLAN & PROFILE STA. 135+00 TO 136+66.54

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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SEEDING END WIDTH	SEEDING SQ. YDS.
1	3
0	0
0	0
3	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
30	0	41	0
14	0	20	0
7	0	4	0
0	0	65	0

CALCULATED VLE
CHECKED JTP

℄ CONSTRUCTION TEMPORARY RD.

TMP
EX R/W
EX. 3" GAS (DND)
EX. 12 WATER (DND)
EX. 8" SAN. (DND)

601.90
127+50.00
601.9

602.30
127+00.00
602.3

602.80
126+50.00
602.8

603.30
126+22.89
603.3

BEGIN TEMPORARY PAVEMENT

NOTE: MAINTENANCE OF TRAFFIC TEMPORARY ROAD AND CVSR DRIVE CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON FLEXIBLE PAVEMENT SECTIONS AS NOTED ON SHEET 16 OF 157. IF RIGID PAVEMENT IS USED, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED PAVEMENT ELEVATIONS. SEE PLAN NOTES ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.

NOTE: ITEM 670 - SLOPE EROSION PROTECTION MAT, TYPE B SHALL BE INSTALLED ON ALL SURFACES 4:1 OR STEEPER

610 / 605 / 600 / 595 / 590

60 50 40 30 20 10 0 10 20 30 40 50 60

MAINTENANCE OF TRAFFIC TEMPORARY RD.
CROSS SECTIONS STA. 126+22.89 TO STA. 127+50

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

25
157

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SEEDING	
END WIDTH	SQ. YDS.
42	156
14	81
15	59
6	20
1	316

END AREA	
CUT	FILL
9	219
1	141
2	28
28	0
30	0

VOLUME	
CUT	FILL
10	334
3	157
28	26
54	0
95	517

CALCULATED VLE
CHECKED JTP

MAINTENANCE OF TRAFFIC TEMPORARY RD. CROSS SECTIONS STA. 128+00 TO STA. 129+50

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

26
157

℄ CONSTRUCTION TEMPORARY RD.

PB-1

RD3 EX. CATCH BASIN STA. 129+24.49, 26.59' RT. EX. 12" W&E 597.37 EX. 12" S 597.42 (TBR)

EX R/W

D7 CB-3, APP, SEE SHEET 54

D6 CB-3, APP, SEE SHEET 54

RD2 EX. CATCH BASIN STA. 129+20.48, 59.08' RT. EX. 12" N 597.78 (TBR)

D3 MH-3, APP, SEE SHEET 54

EX. 3" GAS (TO BE RELOCATED BY DEO)

33' - 12" @ 1.10% (TBR)

EX. 12 WATER (DND)

EX. 8" SAN. (DND)

D5 CB-7, APP, SEE SHEET 54

607.26
129+50.00
601.4

LEGEND

ITEM 204 - GEOGRID PLACED ABOVE
ITEM SPECIAL - SUBGRADE GEOTEXTILE FABRIC

ITEM 203 - GRANULAR MATERIAL, TYPE C

TEMPORARY DRIVE

PROP. 12" DRIVE PIPE

STA. 128+60.00, 15.32' RT.
TEMPORARY CB 2-2B, APP
GRATE ELEV. 602.02
12" (E/W) 597.51

TD1

EX. 3" GAS (TO BE RELOCATED BY DEO)

18" TYPE B

EX. 12" STM. (TBR)

EX. 8" SAN. (DND)

EX. 12 WATER (DND)

605.19
129+00.00
601.4

NOTE: MAINTENANCE OF TRAFFIC TEMPORARY ROAD AND CVSR DRIVE CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON FLEXIBLE PAVEMENT SECTIONS AS NOTED ON SHEET 16 OF 157. IF RIGID PAVEMENT IS USED, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED PAVEMENT ELEVATIONS. SEE PLAN NOTES ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.

D2 CB2-2B, APP, SEE SHEET 53

EX. 3" GAS (TO BE RELOCATED BY DEO)

EX. 12" STM. (TBR)

EX. 8" SAN. (DND)

EX. 12 WATER (DND)

D1 CB2-2B, APP, SEE SHEET 53

603.12
128+50.00
601.3

TEMPORARY PLATE

D9 EX. CATCH BASIN STA. 127+75.48, 3.79' RT. GRATE 600.99 EX. 12" E 598.49 (DND)

EX. 3" GAS (DND)

SA-1 EX. SAN. MANHOLE STA. 127+94.39, 11.74' RT. RIM 601.56 EX. 8" E&W 592.86 (ATG)

EX. 12 WATER (DND)

NOTE: ITEM 670 - SLOPE EROSION PROTECTION MAT, TYPE B SHALL BE INSTALLED ON ALL SURFACES 4:1 OR STEEPER

NOTE: FINAL OLD ROCKSIDE RD. SUBGRADE, EARTHWORK, AND DRAINAGE STRUCTURES SHOWN TO REPRESENT RELATIONSHIP TO TEMPORARY ROAD ONLY. NO FINAL ROADWAY AND BRIDGE CONSTRUCTION ITEMS SHALL BEGIN UNTIL CONSTRUCTION OF TEMPORARY ROAD IS COMPLETED UNLESS OTHERWISE NOTED IN THE SEQUENCE OF CONSTRUCTION NOTE.

601.81
128+00.00
601.5

60 50 40 30 20 10 0 10 20 30 40 50 60

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SEEDING	
END WIDTH	SQ. YDS.
41	48
39	184
27	192
42	424

END AREA	
CUT	FILL
8	385
10	388
11	226
9	219

VOLUME	
CUT	FILL
4	154
20	569
19	825
43	1548

CALCULATED VLE
CHECKED JTP

℄ CONSTRUCTION TEMPORARY RD.

620 / 615 / 610 / 605 / 600 / 595

PB-1 GR-T1 EX R/W TEMPORARY SHEETING

TMP 600.39 2:1 2:1 2:1

EX. 3" GAS (TO BE RELOCATED BY DEO)

EX. 12" STM. (TBR)

611.21
130+60.71
601.5
BEGIN TEMPORARY BRIDGE APPROACH SLAB

NOTE: MAINTENANCE OF TRAFFIC TEMPORARY ROAD AND CVSR DRIVE CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON FLEXIBLE PAVEMENT SECTIONS AS NOTED ON SHEET 16 OF 157. IF RIGID PAVEMENT IS USED, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED PAVEMENT ELEVATIONS. SEE PLAN NOTES ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.

PB-1 GR-T1 EX R/W TEMPORARY SHEETING

TMP 600.42 2:1 2:1 2:1

EX. 3" GAS (TO BE RELOCATED BY DEO)

EX. 12" STM. (TBR)

LEGEND

ITEM 204 - GEOGRID PLACED ABOVE
ITEM SPECIAL - SUBGRADE GEOTEXTILE FABRIC

ITEM 203 - GRANULAR MATERIAL, TYPE C

611.14
130+50.00
601.6

PB-1 TEMPORARY CVSR DRIVE SA-2 EX R/W

TMP 600.55 2:1 2:1

MH-3, APP A
STA. 29+82.81, 17.45' LT.
RIM 604.56
EX. 8" W 594.23

D8 CB-3, APP, SEE SHEET 55

EX. CLEANOUT (DND)

RD4 EX. CATCH BASIN
STA. 129+75.90, 25.91' RT.
GRATE 600.39
EX. 12" W 597.04
EX. 12" E 596.99 (TBR)

SA-3 70' - 6" CONDUIT, TYPE E, AS PER PLAN AT EXISTING GRADE

EX. SANITARY LATERAL (DND)

D4 MH-3, APP, SEE SHEET 55

43' - 12" CONDUIT TYPE B @ 0.60%

EX. SAN. MANHOLE
STA. 129+86.24, 30.82' RT.
RIM 601.03
EX. 8" W 594.23 (ATG) SA-2

EX. 12 WATER (DND)

EX. 3" GAS (TO BE RELOCATED BY DEO)

609.33
130+00.00
601.6

NOTE: ITEM 670 - SLOPE EROSION PROTECTION MAT, TYPE B SHALL BE INSTALLED ON ALL SURFACES 4:1 OR STEEPER

NOTE: FINAL OLD ROCKSIDE RD. SUBGRADE, EARTHWORK, AND DRAINAGE STRUCTURES SHOWN TO REPRESENT RELATIONSHIP TO TEMPORARY ROAD ONLY. NO FINAL ROADWAY AND BRIDGE CONSTRUCTION ITEMS SHALL BEGIN UNTIL CONSTRUCTION OF TEMPORARY ROAD IS COMPLETED UNLESS OTHERWISE NOTED IN THE SEQUENCE OF CONSTRUCTION NOTE.

60 50 40 30 20 10 0 10 20 30 40 50 60

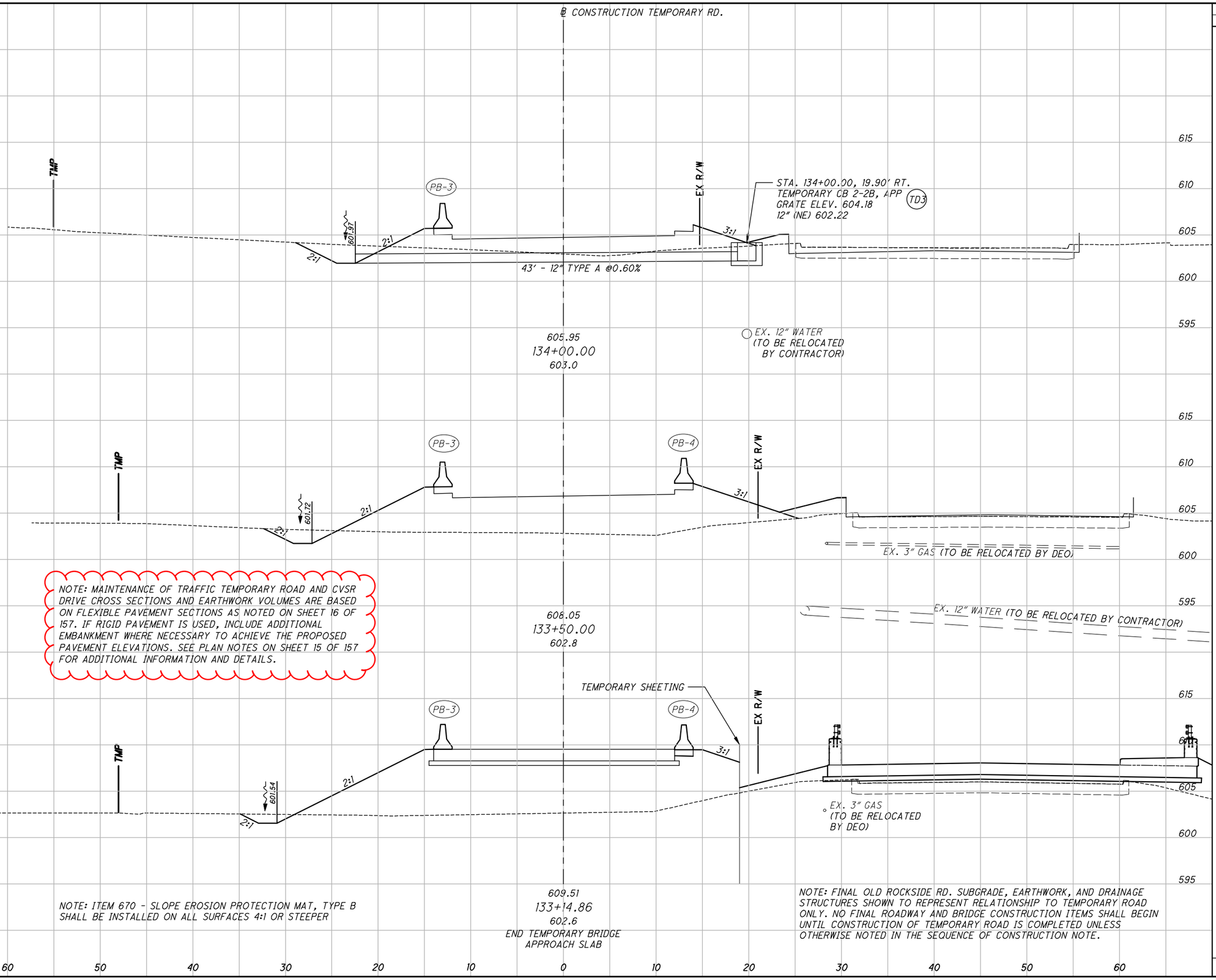
MAINTENANCE OF TRAFFIC TEMPORARY RD. CROSS SECTIONS STA. 130+00 TO STA. 130+60.71

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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SEEDING	
END WIDTH	SQ. YDS.
23	153
32	118
28	271



NOTE: MAINTENANCE OF TRAFFIC TEMPORARY ROAD AND CVSR DRIVE CROSS SECTIONS AND EARTHWORK VOLUMES ARE BASED ON FLEXIBLE PAVEMENT SECTIONS AS NOTED ON SHEET 16 OF 157. IF RIGID PAVEMENT IS USED, INCLUDE ADDITIONAL EMBANKMENT WHERE NECESSARY TO ACHIEVE THE PROPOSED PAVEMENT ELEVATIONS. SEE PLAN NOTES ON SHEET 15 OF 157 FOR ADDITIONAL INFORMATION AND DETAILS.

NOTE: ITEM 670 - SLOPE EROSION PROTECTION MAT, TYPE B SHALL BE INSTALLED ON ALL SURFACES 4:1 OR STEEPER

NOTE: FINAL OLD ROCKSIDE RD. SUBGRADE, EARTHWORK, AND DRAINAGE STRUCTURES SHOWN TO REPRESENT RELATIONSHIP TO TEMPORARY ROAD ONLY. NO FINAL ROADWAY AND BRIDGE CONSTRUCTION ITEMS SHALL BEGIN UNTIL CONSTRUCTION OF TEMPORARY ROAD IS COMPLETED UNLESS OTHERWISE NOTED IN THE SEQUENCE OF CONSTRUCTION NOTE.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	61		
		18	214
7	170		
		8	257
4	224		
		26	477

CALCULATED VLE
CHECKED JTP

MAINTENANCE OF TRAFFIC TEMPORARY RD. CROSS SECTIONS STA. 132+87.91 TO STA. 133+50

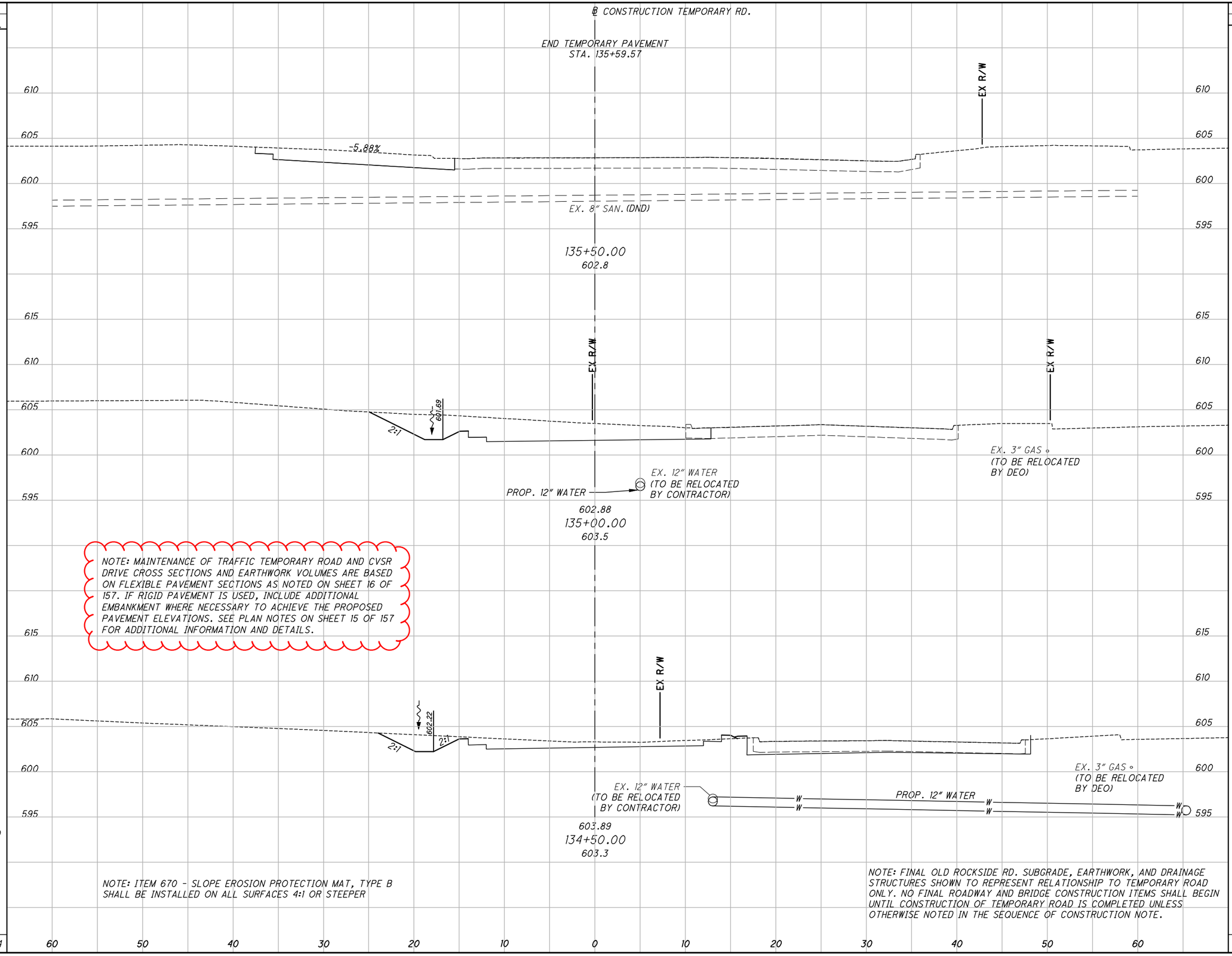
CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

28
157

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SEEDING END WIDTH	SEEDING SQ. YDS.
0	
	34
12	
	70
13	
	100
23	
	204



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
29	0		
		89	0
67	0		
90	1		
30	1		
39	58		
12	61		
		218	59

CALCULATED VLE
CHECKED JTP

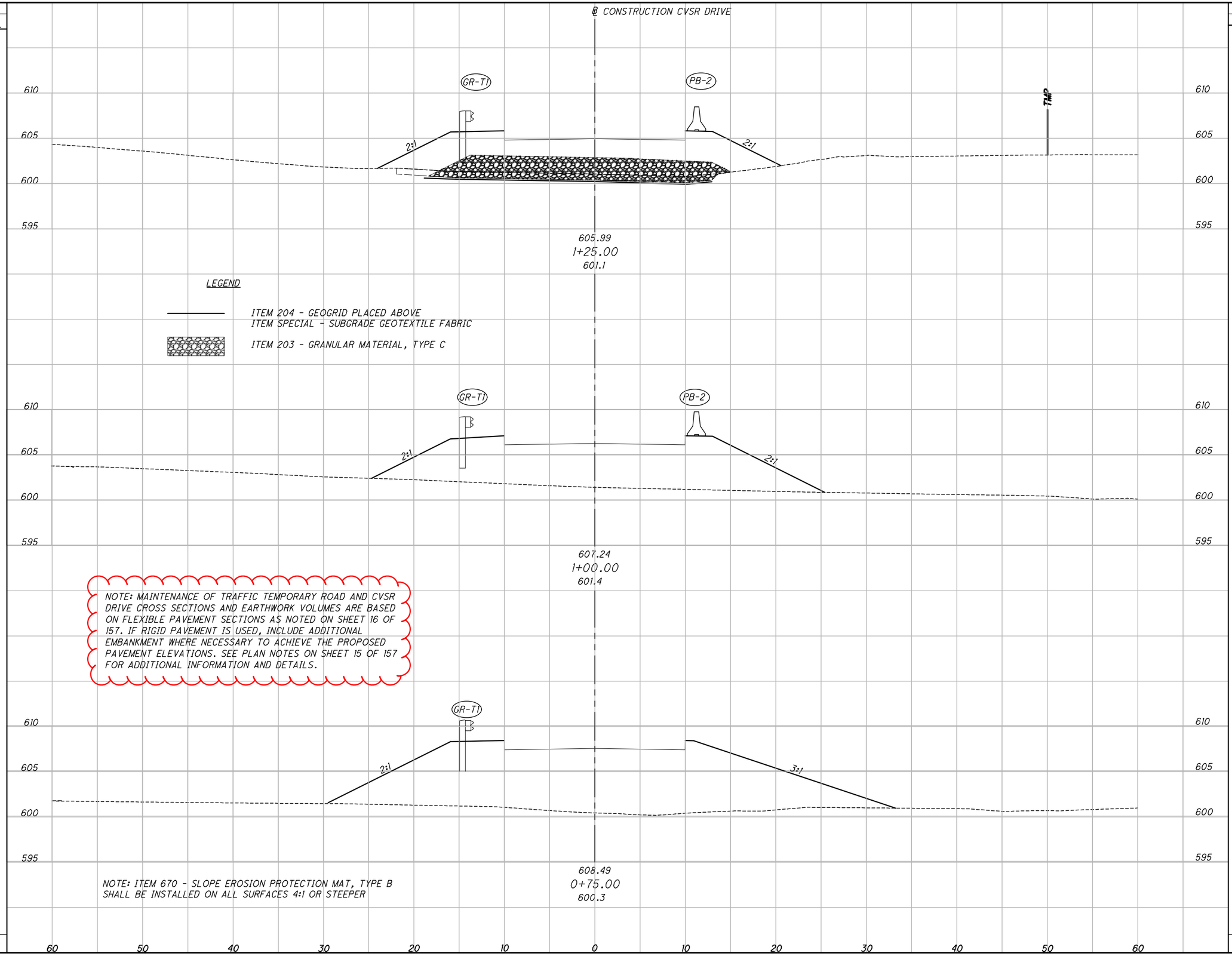
MAINTENANCE OF TRAFFIC TEMPORARY RD. CROSS SECTIONS STA. 134+00 TO STA. 135+00

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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SEEDING	
END WIDTH	SQ. YDS.
24	73
28	88
35	161



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	90		
		0	130
0	189		
		0	229
0	305		
		0	353

CALCULATED SAF
CHECKED JTP

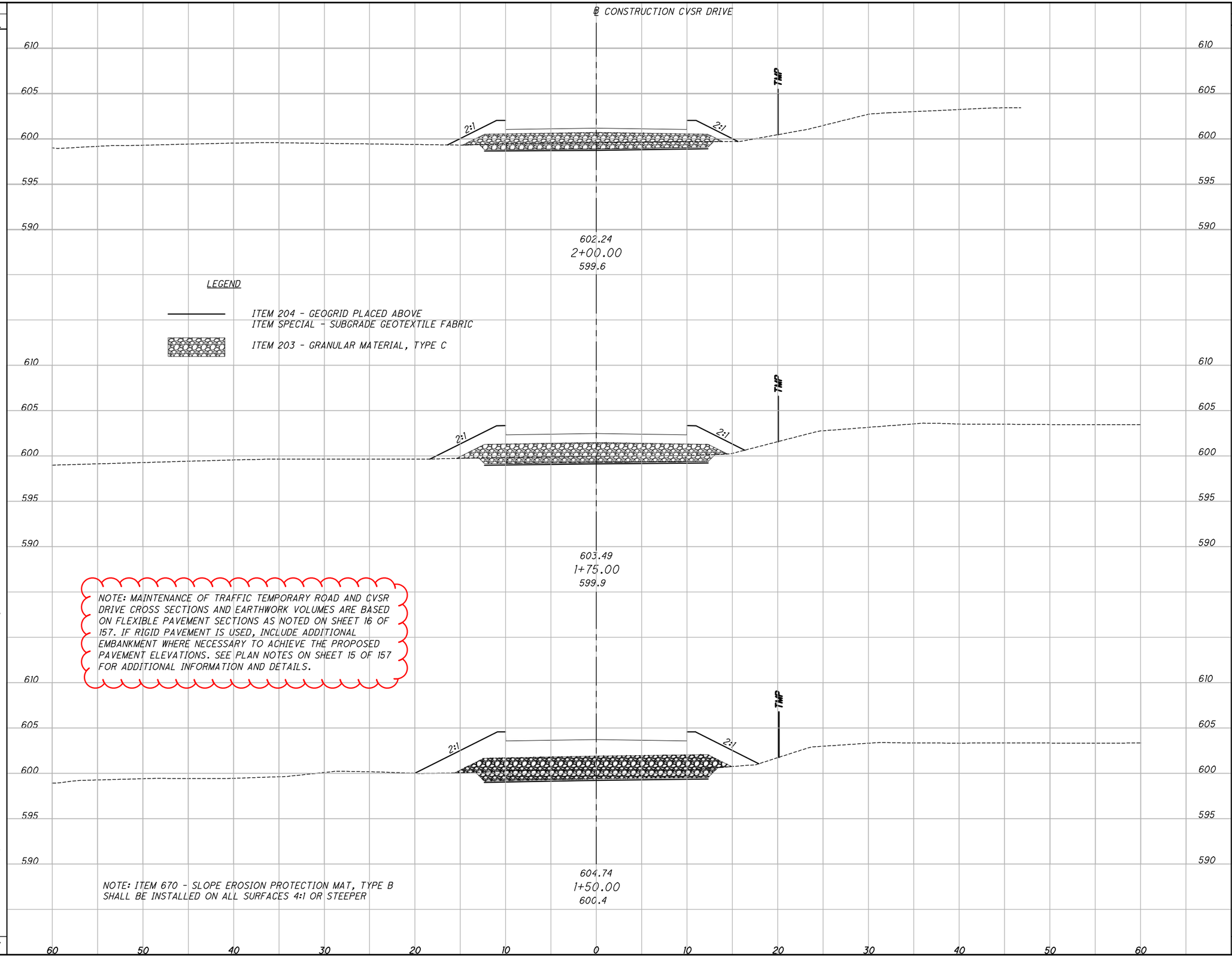
MOT CROSS SECTION - CVSR DRIVE
STA. 0+75 TO STA. 1+25

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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SEEDING	
END WIDTH	SQ. YDS.
13	41
16	50
20	62
24	153



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	20		
		0	28
0	39		
		0	50
0	67		
		0	73
0	90		
		0	151

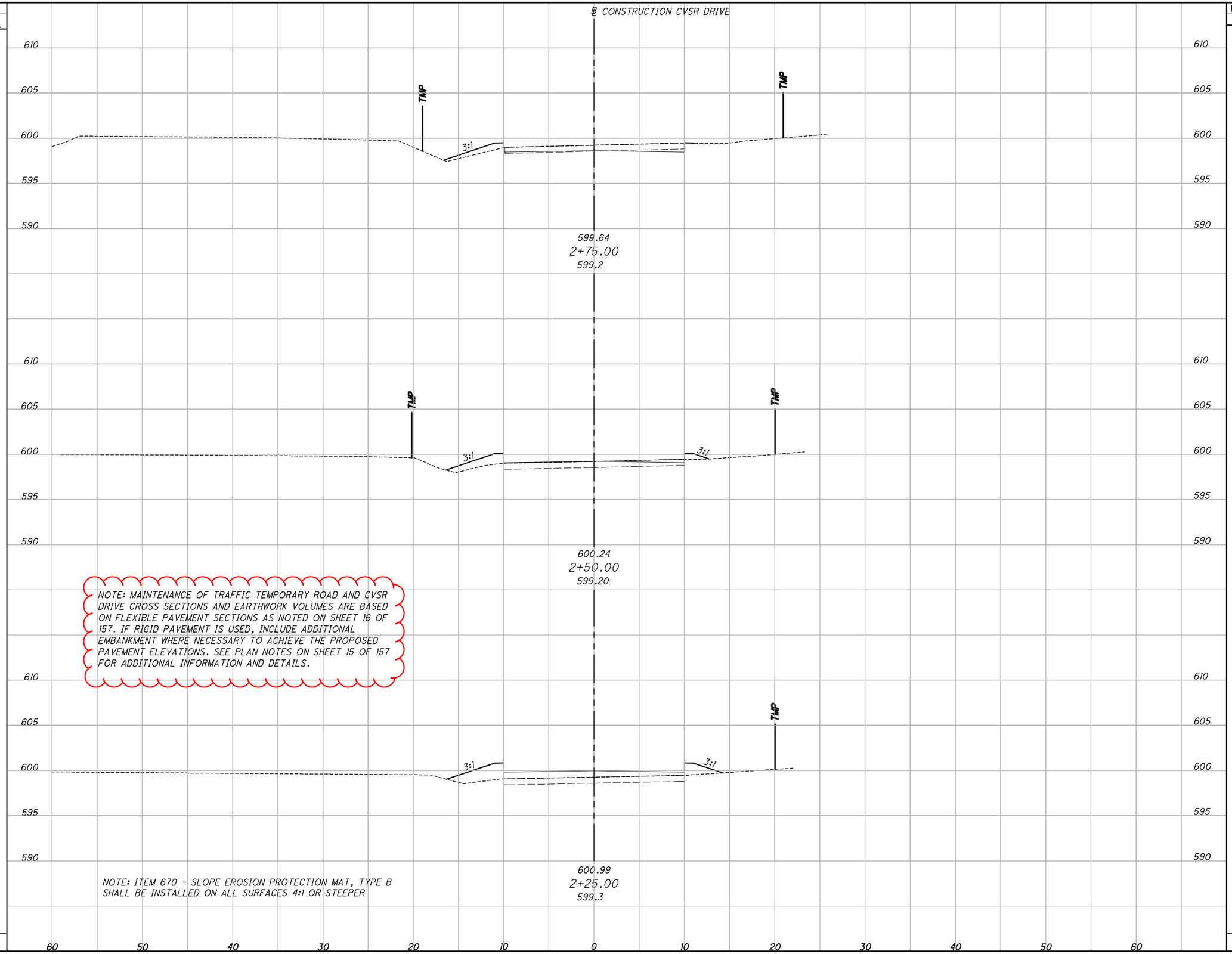
CALCULATED SAF
CHECKED JTP

MOT CROSS SECTION - CVSR DRIVE STA. 1+50 TO STA. 2+00

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6	19	2	3	1	5
7	23	0	7	0	15
9	31	0	24	0	27
13	73	0	20	1	41

CALCULATED SAF
CHECKED JTP

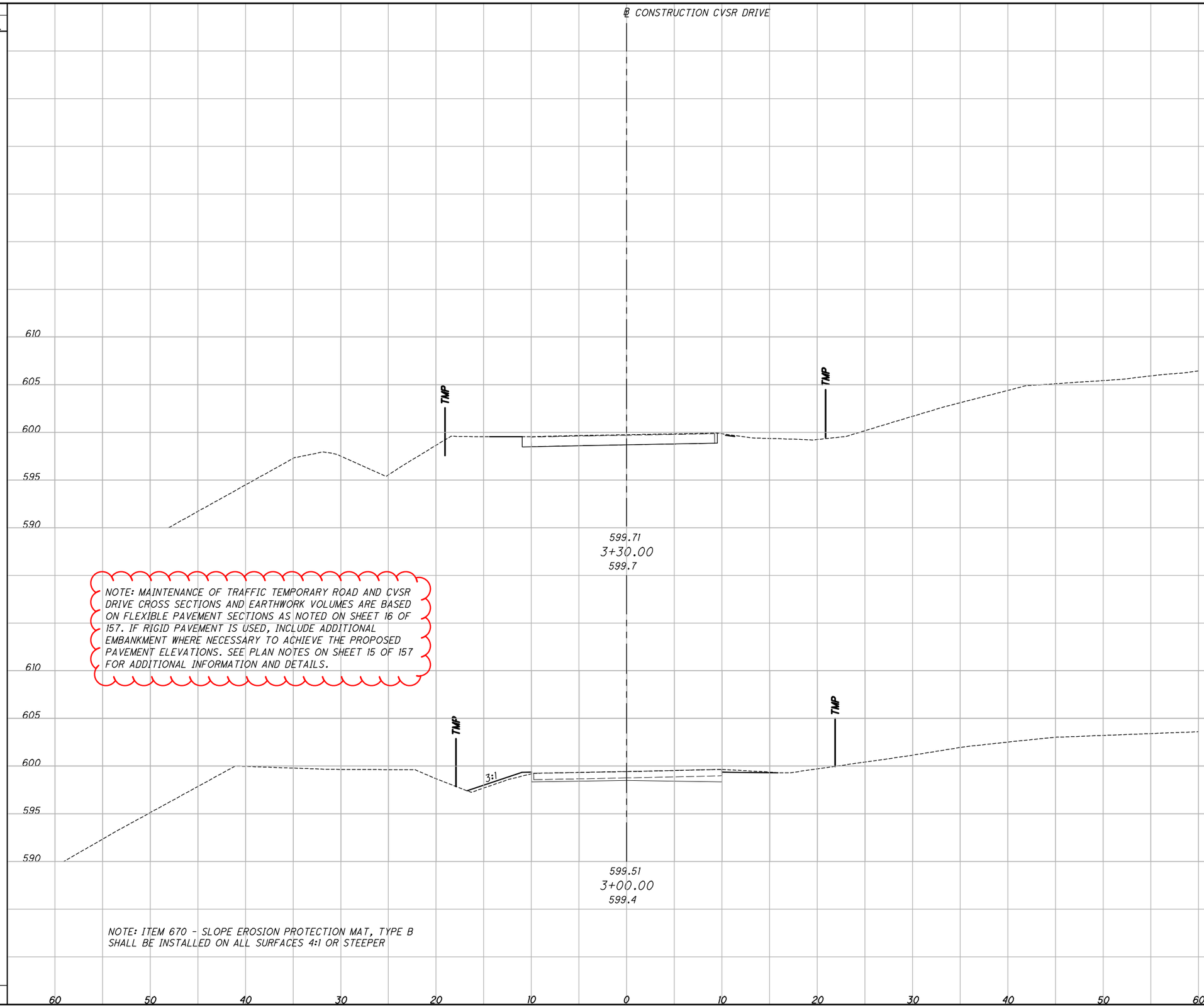
MOT CROSS SECTION - CVSR DRIVE STA. 2+25 TO STA. 2+75

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

P:\PR57030\Cadd\Sheets\ORR_91563_XM103.dwg 09-Feb-22 4:38 PM

SEEDING	
END WIDTH	SQ. YDS.
5	17
5	16
6	33



END AREA	
CUT	FILL
2	0
8	2
2	3

VOLUME	
CUT	FILL
6	2
5	3
11	5

CALCULATED	CHECKED
SAF	JTP

MOT CROSS SECTION - CVSR DRIVE
STA. 3+00 TO STA. 3+30

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

33
157

P:\PR57030\Cadd\Sheets\ORR_91563_XM104.dwg 09-Feb-22 4:40 PM

REF NO.	SHEET NUM. 8	9	10	11	12	40	41	42	44				PART. 01/BRF/BR	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		ROADWAY	
1	LS												LS	201	11000	LS	-	CLEARING AND GRUBBING	
1A						2							2	SPECIAL	20120010	2	EACH	TREE REMOVED, 4"-12"	
1B						4							4	201	21800	4	EACH	TREE REMOVED, 18"	
1C						1							1	201	23000	1	EACH	TREE REMOVED, 30"	
1D						1							1	201	24800	1	EACH	TREE REMOVED, 48"	
2						11							11	SPECIAL	20126450	11	EACH	STUMP REMOVED, 4"-12"	
3						10							10	201	26500	10	EACH	STUMP REMOVED, 18"	
4						1							1	201	26510	1	EACH	STUMP REMOVED, 30"	
5																		NOT USED	
6						3,730							3,730	202	23000	3,730	SY	PAVEMENT REMOVED	
7						56							56	202	30000	56	SF	WALK REMOVED	
8						147							147	202	32000	147	FT	CURB REMOVED	
9						387							387	202	32500	387	FT	CURB AND GUTTER REMOVED	
10							371						371	202	35100	371	FT	PIPE REMOVED, 24" AND UNDER	
11						256							256	202	38000	256	FT	GUARDRAIL REMOVED	
12							1						1	202	58000	1	EACH	MANHOLE REMOVED	
13							4						4	202	58100	4	EACH	CATCH BASIN REMOVED	
14						124							124	202	75000	124	FT	FENCE REMOVED	
15	1												1	202	75255	1	EACH	GATE REMOVED FOR REUSE, AS PER PLAN	8
16						1							1	202	98100	1	EACH	REMOVAL MISC.: FLAG POLE REMOVED	8
17						1							1	202	98100	1	EACH	REMOVAL MISC.: LIGHT REMOVED	8
18									3,070				3,070	203	10000	3,070	CY	EXCAVATION	
19									316				316	203	20001	316	CY	EMBANKMENT, AS PER PLAN	8
20								4,187					4,187	204	10000	4,187	SY	SUBGRADE COMPACTION	
21									426				426	204	30020	426	CY	GRANULAR MATERIAL, TYPE C	
22									856				856	204	51000	856	SY	GEOGRID	
23									856				856	SPECIAL	69012010	856	SY	GEOTEXTILE FABRIC	9
24	2,930												2,930	209	60201	2,930	SY	LINEAR GRADING, AS PER PLAN	8
25						37.5							37.5	606	15050	37.5	FT	GUARDRAIL, TYPE MGS	
26						1							1	606	26100	1	EACH	ANCHOR ASSEMBLY, TYPE E	
27						1							1	606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T	
28						2							2	606	35000	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	
29								1,146					1,146	608	10001	1,146	SF	4" CONCRETE WALK, AS PER PLAN	8
30						210							210	608	52000	210	SF	CURB RAMP	
31		1											1	623	40501	1	EACH	REFERENCE MONUMENT, AS PER PLAN	9
32		2											2	623	40520	2	EACH	RIGHT-OF-WAY MONUMENT	
																		EROSION CONTROL	
33			300										300	659	00300	300	CY	TOPSOIL	
34			2,930										2,930	659	10001	2,930	SY	SEEDING AND MULCHING, AS PER PLAN	10
35			130										130	659	14000	130	SY	REPAIR SEEDING AND MULCHING	
36			0.35										0.35	659	20000	0.35	TON	COMMERCIAL FERTILIZER	
37			0.06										0.06	659	31000	0.06	ACRE	LIME	
38			16										16	659	35000	16	MGAL	WATER	
39									535				535	670	00520	535	SY	SLOPE EROSION PROTECTION MAT, TYPE B	
40													LS	832	15000	LS	-	STORM WATER POLLUTION PREVENTION PLAN	
41													LS	832	15002	LS	-	STORM WATER POLLUTION PREVENTION INSPECTIONS	
42													LS	832	15010	LS	-	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
43			60,000										60,000	832	30000	60,000	EACH	EROSION CONTROL	
																		DRAINAGE	
44							0.4						0.4	602	20000	0.4	CY	CONCRETE MASONRY	
45								852					852	605	14021	852	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	12
46				50									50	611	97400	50	FT	CONDUIT, MISC.: 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION, AS PER PLAN	11
47				50									50	611	97400	50	FT	CONDUIT, MISC.: 6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION, AS PER PLAN	11
48							70						70	611	01401	70	FT	6" CONDUIT, TYPE E, AS PER PLAN	12
49					250		89						339	611	04401	339	FT	12" CONDUIT, TYPE B, AS PER PLAN	12
50							36						36	611	05901	36	FT	15" CONDUIT, TYPE B, AS PER PLAN	12
51							75						75	611	07401	75	FT	18" CONDUIT, TYPE B, AS PER PLAN	12
52							180						180	611	08901	180	FT	21" CONDUIT, TYPE B, AS PER PLAN	12

ADDENDUM 1

CALCULATED VLE
CHECKED JTP

GENERAL SUMMARY

CUY - OLD ROCKSIDE ROAD

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REF NO.	SHEET NUM. 7	8	9	10	14	15	42	45	84				PART. 01/BRF/BR	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		RETAINING WALLS	
107-124																		SEE SHEET 75 FOR RETAINING WALL AND BARRIER MOMENT SLAB ESTIMATED QUANTITIES	75
																		STRUCTURE OVER 20 FOOT SPAN	
125-175																		SEE SHEET 104 FOR STRUCTURE 00.42 ESTIMATED QUANTITIES	104
																		MAINTENANCE OF TRAFFIC	
176																		NOT USED	
177								95					95	202	35100	95	FT	PIPE REMOVED, 24" AND UNDER	
178								1					1	202	42040	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
179								1					1	202	47000	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
180								75					75	202	38000	75	FT	GUARDRAIL REMOVED	
181								2					2	202	58100	2	EACH	CATCH BASIN REMOVED	
182								459					459	203	10000	459	CY	EXCAVATION	
183								3,151					3,151	203	20001	3,151	CY	EMBANKMENT, AS PER PLAN	8
184								288					288	204	30020	288	CY	GRANULAR MATERIAL, TYPE C	
185								362					362	204	51000	362	SY	GEOGRID	
186							2,681						2,681	204	10000	2,681	SY	SUBGRADE COMPACTION	
187-189																		NOT USED	
190						15							15	410	12000	15	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
191-192																		NOT USED	
193									LS				LS	502	11101	LS	-	STRUCTURE FOR MAINTAINING TRAFFIC, AS PER PLAN	84
194								75					75	606	15050	75	FT	GUARDRAIL, TYPE MGS	
195								1					1	606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T	
196								1					1	606	35000	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	
197								95					95	611	04401	95	FT	12" CONDUIT, TYPE B, AS PER PLAN	12
198								2					2	611	98471	2	EACH	CATCH BASIN, NO. 2-2B, AS PER PLAN	86
199						40							40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
200								7					7	614	12380	7	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
201						20							20	614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
202						30							30	614	13310	30	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
203						6							6	614	13314	6	EACH	BARRIER REFLECTOR, TYPE 3, BIDIRECTIONAL	
204						30							30	614	13360	30	EACH	OBJECT MARKER, TWO WAY	
205					0.60								0.60	614	21100	0.60	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
206					0.22								0.22	614	21550	0.22	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
207					0.40								0.40	614	22100	0.40	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
208					0.24								0.24	614	22350	0.24	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
209					80								80	614	24200	80	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	
210					100								100	614	26200	100	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
211					65								65	614	26610	65	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
212					1								1	614	32200	1	EACH	WORK ZONE RAILROAD SYMBOL MARKING, CLASS I, 642 PAINT	
212A													LS	615	10001	LS	-	ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN	15
212B							1,741						1,741	615	20001	1,741	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	15
212C							634						634	615	25001	634	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	15
213	12												12	616	10000	12	MGAL	WATER	
214	1.2												1.2	616	20000	1.2	TON	CALCIUM CHLORIDE	
215								561					561	622	41100	561	FT	PORTABLE BARRIER, UNANCHORED	
216				1,638									1,638	659	10001	1,638	SY	SEEDING AND MULCHING, AS PER PLAN	10
217				90									90	659	14000	90	SY	REPAIR SEEDING AND MULCHING	
218				11									11	659	35000	11	MGAL	WATER	
219				15.5									15.5	659	40000	15.5	MSF	MOWING	
220								1,595					1,595	670	00520	1,595	SY	SLOPE EROSION PROTECTION MAT, TYPE B	
																		INCIDENTALS	
221					LS								LS	614	11001	LS	-	MAINTAINING TRAFFIC, AS PER PLAN	14
222	22												22	619	16021	22	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	7
223			LS										LS	623	10001	LS	-	CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	9
224													LS	624	10000	LS	-	MOBILIZATION	
225													LS	SPECIAL	69098400	LS	-	PROJECT DVD RECORDING (SEE PROPOSAL NOTE)	
226													LS	SPECIAL	10810000	LS	-	CPM PROGRESS SCHEDULE (SEE PROPOSAL NOTE)	

ADDENDUM 1

CALCULATED VLE
CHECKED JTP

GENERAL SUMMARY

CUY - OLD ROCKSIDE ROAD

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REF NO.	SHEET NO.	STATION TO STATION				SPECIAL TREE REMOVED, 4"-12" EACH	201 TREE REMOVED, 18" EACH	201 TREE REMOVED, 30" EACH	201 TREE REMOVED, 48" EACH	SPECIAL STUMP REMOVED, 4"-12" EACH	201 STUMP REMOVED, 18" EACH	201 STUMP REMOVED, 30" EACH	202 PAVEMENT REMOVED SY	202 WALK REMOVED SF	202 CURB REMOVED FT	202 CURB AND GUTTER REMOVED FT	202 GUARDRAIL REMOVED FT	202 FENCE REMOVED FT	202 REMOVAL MISC.: FLAG POLE REMOVED EACH	202 REMOVAL MISC.: LIGHT REMOVED EACH	606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, TYPE E EACH	606 ANCHOR ASSEMBLY, TYPE T EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	608 CURB RAMP SF	
	22/47	29+37	LT	TO								1															
	22/47	29+72	LT							1																	
	22/47	29+74	LT								1																
	22/47	28+75	LT			1				1																	
	22/47	30+27	RT						1																		
	23/47	30+62	RT				1																				
	23/47	30+65	RT								1																
	23/47	30+71	LT								1																
	23/47	30+75	LT								1																
	23/47	30+81	LT							1																	
	23/47	30+90	LT								1																
	23/50	31+13	RT					1				1															
	23/50	31+24	RT			1				1																	
	23/50	32+55	LT								1																
	23/50	32+59	LT								1																
	23/50	32+66	RT				1																				
	23/50	32+89	RT				1																				
	23/50	32+94	RT				1																				
	23/50	33+03	LT							1																	
	23/50	33+15	RT							1																	
	23/50	33+50	LT							1																	
	23/50	33+64	RT							1																	
	23/50	33+95	LT							1																	
	23/50	34+13	RT								1																
	23/50	34+44	LT							1																	
	23/50	34+63	RT								1																
	24/50	35+04	LT								1																
	24/50	35+10	LT							1																	
	24/50	35+11	LT							1																	
	24/50	35+20	RT								1																
R-1	22/47	28+12.00			30+37.00								600														
R-2	23/50	33+38.00			34+65.00								368														
R-3	22/47	7909 ORR			27+26.96	LT							197														
R-4	22/47	7809 ORR			28+79.30	RT							32														
R-5	22/47	7919 ORR			28+94.63	LT							499														
R-6	23/50	6150 W. CANAL			34+79.67	LT							1282														
R-7	23/50	THORNBURG STA.			35+60.52	RT							244														
R-8	22/47	1+15.86			3+30								508														
R-9	23/50	34+75.00	RT											56													
R-10	23/50	33+38.00	LT		202+19.20	RT										260											
R-11	23/50	33+38.00	RT		34+65.00	RT										127											
R-12	23/50	THORNBURG STA.													147												
R-13	23/47	30+55.61	LT		31+02.87	LT												48									
R-14	23/47	30+43.46	RT		31+02.71	RT												60									
R-15	23/50	32+61.72	LT		33+73.42	RT												112									
R-16	23/50	32+63.00	RT		32+98.68	RT												36									
R-17	22/47	30+29	LT																	1							
R-18	22/47	30+30	LT																		1						
R-19	22/47	28+43	LT		29+27	LT													124								
GR-1	47	30+07.00	RT		30+52.50	RT																25		1	1		
GR-2	50	33+36.00	LT		34+17.52	LT																12.5	1		1		
CR-1	47	30+10.00	RT		TYPE B3																					100	
CR-2	50	35+40.00	RT		TYPE B3																					110	
TOTALS CARRIED TO GENERAL SUMMARY						2	4	1	1	11	10	1	3730	56	147	387	256	124	1	1	37.5	1	1	2	210	

ELIMINATED ITEM 202 - STUMP REMOVED, 48"

ADDENDUM 1

CALCULATED VLE CHECKED JTP

ROADWAY SUBSUMMARY

CUY - OLD ROCKSIDE ROAD

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FINAL PAVEMENT

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204 SUBGRADE COMPACTION	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.25"	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3"	302 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	304 AGGREGATE BASE, AS PER PLAN	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, AS PER PLAN	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PLAN	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER PLAN	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	608 4" CONCRETE WALK, AS PER PLAN	609 COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN A	609 COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN B	609 COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN	609 CURB, TYPE 4-C, AS PER PLAN	609 CURB, TYPE 6, AS PER PLAN	875 LONGITUDINAL JOINT ADHESIVE
					FT	FT	SY	SY	SY	SY	SY	CY	CY	GAL	CY	CY	CY	SY	FT	SF	FT	FT	FT	FT	FT	LB
26+20.00	TO	28+12.00			192.00	24.00	512.00				512.00			71.68		17.78	24.89										38.40
28+12.00		28+57.00			45.00	27.00	135.00		148.33			38.43	23.89	13.50		4.69	6.56		90.00								9.00
28+57.00		30+08.34			151.34	26.00	437.20		487.65			126.90	80.34	44.28		15.18	21.25		302.68		302.68						30.30
30+08.34		30+37.00			28.66	26.00	82.80		92.35			23.00	13.80	8.28		2.87	4.02		57.32	186.29	57.32			28.66			5.80
30+37.00		30+64.00			27.00	30.00	90.00		99.00				15.50														
33+11.00		33+38.00			27.00	30.00	90.00		99.00				15.50														
33+38.00		34+05.17			67.17	26.00	194.05		216.44			53.90	32.34	19.40		6.74	9.43		134.34		134.34						13.50
34+05.17		34+65.00			59.83	26.00	172.84		192.79			48.01	28.81	17.28		6.00	8.40		132.57	388.90	89.66	30.00					12.00
34+65.00		36+02.81						710.00			710.00	3.29		99.40		24.65	34.51		134.22	520.07		87.78	46.44				40.00
34+90.00		202+19.20						25.00	25.00			6.94	4.17	2.50		0.87	1.22										
35+78.40		35+91.49						5.63												50.66							
7909 ORR		27+26.96	LT					197.00	197.00				32.83	19.70	6.84		9.58										
7809 ORR		28+79.30	RT					29.00	29.00				4.83	2.90	1.01		1.41										
7919 ORR		28+94.63	LT					499.00	499.00				83.17	49.90	17.33		24.26										
6150 W. Canal		34+75.67	LT					1301.00	1301.00				216.83	130.10	45.17		63.24										
Thornburg Sta.		35+60.52	RT					232.00	232.00				38.67	23.20	8.06		11.28	11.22							164.85		
								184.00		184.00				16.56	6.39												
CVSR Drive																											
1+15.86		1+48.52			32.66			104.00	104.00			11.82	18.34	10.40		3.61	5.06										6.60
1+48.52		3+30.00			181.48	20.00	403.29		463.78			46.30	72.82	41.00		14.00	19.60										36.30
								SUBTOTALS	4186.34	184.00	1222.00	358.59	681.83	570.09	84.79	96.40	244.72	11.22	851.13	1145.91	584.00	117.78	46.44	28.66	164.85	191.90
								TOTALS CARRIED TO GENERAL SUMMARY	4187	184	1222	359	682	571	85	97	245	12	852	1146	584	118	47	29	165	192

TEMPORARY PAVEMENT

FOR INFORMATION ONLY

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204 SUBGRADE COMPACTION	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	302 ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN	304 AGGREGATE BASE, AS PER PLAN	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER PAN	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER PLAN
					FT	FT	SY	SY	SY	SY	SY	CY	CY	GAL	CY	CY
126+22.89	TO	127+83.04			160.15			217.00	243.69	217.00		34.06	47.04	22.00	7.53	10.55
127+83.04		130+60.71			277.67	24.00	740.45		833.01	740.45		116.27	161.12	75.07	25.71	35.99
130+60.71		130+85.71			25.00	26.00	72.22		80.56	72.22			13.81			
132+89.86		133+14.86			25.00	26.00	72.22		80.56	72.22			13.81			
133+14.85		135+05.65			190.80	24.00	508.80		572.40	508.80		79.89	110.71	51.59	17.67	24.73
135+05.65		135+59.57			53.92			130.00	138.99	130.00		20.17	25.33	13.10	4.51	6.32
7909 ORR		27+26.96	LT					90.00	106.67		90.00		16.54	9.00	3.13	4.38
7919 ORR		28+94.63	LT					96.00	114.33		96.00		17.70	9.60	3.33	4.67
CVSR Drive																
0+65.23		1+24.42			59.19			223.00	252.53		223.00		39.90	22.30	7.74	10.84
1+24.42		2+25.38			100.96	20.00	224.36		258.01		224.36		40.51	22.81	7.79	10.91
								SUBTOTALS	2680.74	1740.69	633.36	250.38	486.47	225.47	77.42	108.38
								TOTALS CARRIED TO GENERAL SUMMARY	2681	1741	634					

SUBGRADE COMPACTION AND PAVEMENT FOR MAINTAINING TRAFFIC QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY. ALL OTHER ITEMS ARE SHOWN FOR INFORMATION ONLY AND HAVE NOT BEEN CARRIED TO THE GENERAL SUMMARY.

CALCULATED VLE
CHECKED JTP

PAVEMENT SUBSUMMARY

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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REF NO.	SHEET NO.	STATION TO STATION			202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE T	202 BRIDGE TERMINAL ASSEMBLY REMOVED	203 EXCAVATION	203 EMBANKMENT, AS PER PLAN	203 GRANULAR MATERIAL, TYPE C	204 GEOGRID	670 SLOPE EROSION PROTECTION MAT, TYPE B	202 PIPE REMOVED, 24" AND UNDER	202 CATCH BASIN REMOVED	611 12" CONDUIT, TYPE B, AS PER PLAN	611 CATCH BASIN, NO. 2-2B, AS PER PLAN	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, TYPE T	606 BRIDGE TERMINAL ASSEMBLY, TYPE I	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	622 PORTABLE BARRIER, UNANCHORED			
			TO		FT	EACH	EACH	CY	CY	CY	SY	SY	FT	EACH	FT	EACH	FT	EACH	EACH	EACH	FT			
	25	126+22.89		127+50.00				65																
	26	128+00.00		129+50.00				95	517			306												
	27	130+00.00		130+60.71				43	1548			403												
	28	133+14.86		134+00.00				26	471			266												
	29	134+50.00		135+50.00				218	59			209												
	30	0+75.00		1+25.00					359	119	142	145												
	31	1+50.00		2+00.00					151	169	220	135												
	32	2+25.00		2+75.00				1	41			102												
	33	3+00.00		3+30.00				11	5			29												
TD1	22	128+60.00, 15.34' RT												1		1								
TD2	22	128+83.42, 22.41' LT		129+35.22, 25.32' LT									52		52									
TD3	23	134+00.00, 20.00' RT		134+00.00, 22.90' LT									43	1	43	1								
PB-1	22	129+32.97	LT	130+87.30	LT																1	147		
PB-2	22	85+56.00	RT	1+61.59	RT																2	35		
GR-T1	22	1+62.20	LT	130+87.30	RT	75	1	1									75	1	1					
PB-3	23	132+88.23	LT	134+50.00	LT																1	152		
PB-4	23	132+88.23	RT	133+75.11	RT																1	77		
PB-5	23	33+00.00	RT	34+40.00	RT																2	150		
TOTALS CARRIED TO GENERAL SUMMARY						75	1	1	459	3151	288	362	1595	95	2	95	2	75	1	1	7	561		

CALCULATED VLE CHECKED JTP

MAINTENANCE OF TRAFFIC SUBSUMMARY

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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CUYAHOGA VALLEY SCENIC RAILROAD

BEGIN WORK STA. 26+00.00

BEGIN ASPHALT RESURFACING STA. 26+20.00

BEGIN PROJECT STA. 26+20.00

3" PAVEMENT TAPER @ 15:1 = 45.0'

SUSPEND FULL DEPTH PAVEMENT STA. 30+37.00
BEGIN APPROACH SLAB STA. 30+39.00

CONSTRUCTION LIMITS

BEGIN BRIDGE STA. 30+64.00

FULL-DEPTH SAWCUT
END ASPHALT RESURFACING
BEGIN FULL-DEPTH PAVEMENT
STA. 28+12.00

℄ CONSTRUCTION OLD ROCKSIDE RD.

STA. 29+82.76 ℄ CONSTRUCTION OLD ROCKSIDE RD. = STA. 1+00.00 ℄ CONSTRUCTION CVSR DRIVE

STA. 29+55.62, 40.00' RT.

℄ CONSTRUCTION CVSR DRIVE

STA. 30+28.25, 40.00' RT.

END CVSR DRIVE PAVEMENT REPLACEMENT STA. 3+30.00

PC Sta. 2+67.88

PT Sta. 3+46.23

N 86°09'03" E

S 16°05'01" E

BM-5
B-001-0-19

B-002-0-19

12" CMP (TBR)

12" WL (QL-D) (DND)

3" Steel (QL-D) (DND)

MATCH LINE STA. 31+00 SEE SHEET 50

NOTE
SEE SHEET 61 FOR DRIVEWAY PROFILES

LEGEND

1. 12" CPP STORM, DO NOT DISTURB
2. 8" VCP SANITARY, DO NOT DISTURB
3. 3" GAS, TO BE RELOCATED BY DEO
4. SANITARY LATERAL TO BE REPLACED BY CONTRACTOR
5. 12" CPP STORM, TO BE REMOVED
6. OVERHEAD POWER LINES, TO BE RELOCATED BY FIRST ENERGY
7. STA. 1+46.71, END ROUNDED W-BEAM END SECTION, BEGIN TYPE T ANCHOR ASSEMBLY (BRACE POST SHALL BE BETWEEN LAST POST ON RADIUS AND FIRST POST ON TANGENT)
8. STA. 1+34.69, END TYPE T ANCHOR ASSEMBLY, BEGIN GUARDRAIL, TYPE MGS
9. STA. 30+25.60, BEGIN BRIDGE TERMINAL ASSEMBLY, TYPE 1, END GUARDRAIL, TYPE MGS
10. STA. 30+52.50, END BRIDGE TERMINAL ASSEMBLY, TYPE 1
11. SEE ITEM 609 - COMBINATION CURB AND GUTTER TYPE 2, AS PER PLAN A GENERAL NOTE FOR CURB HEIGHT TRANSITION
12. CURB HEIGHT TRANSITION FROM 0" TO 2.5" (BACK OF DROPPED CURB HEIGHT THROUGH DRIVE APRON PER CUYAHOGA COUNTY STANDARD BP-4.1C) AT RATE OF 1 INCH PER FOOT
13. SEE TYPICAL SECTION FOR GUTTER SLOPE TRANSITION DETAILS

CONSTRUCTION LIMITS

SOIL BORING/PAVEMENT CORE

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED VLE
CHECKED JTP

PLAN - OLD ROCKSIDE ROAD
STA. 25+50 TO STA. 31+00

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

47
157

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CONSTRUCTION LIMITS

END BRIDGE
STA. 33+11.00

FULL-DEPTH SAWCUT
END FULL-DEPTH PAVEMENT
BEGIN ASPHALT RESURFACING
STA. 34+65.00

0.5' PAVEMENT TAPER
@ 20:1 = 10.0'

SEE RESTORATION
SHEET 63 FOR
CURB AND GUTTER
DETAILS

END ASPHALT
RESURFACING
STA. 202+19.20

END PROJECT
STA. 36+02.81

END ASPHALT
RESURFACING
STA. 36+02.81

℄ CONSTRUCTION
OLD ROCKSIDE RD.

END APPROCH SLAB
STA. 33+36.00
RESUME FULL-DEPTH
PAVEMENT RECONSTRUCTION
STA. 33+38.00

EX. HYDRANT
TO BE RELOCATED
BY CONTRACTOR

FULL-DEPTH SAWCUT

STA. 35+62.81 ℄ CONSTRUCTION
OLD ROCKSIDE RD. =
STA. 202+94.88 ℄ W. CANAL RD.

W. CANAL RD. 202

BM-6

MATCH LINE STA. 31+00 SEE SHEET 47

CUYAHOGA RIVER

LEGEND

1. EXISTING OVERHEAD POWERLINES TO BE RELOCATED BY FIRST ENERGY
2. EXISTING GAS LINE TO BE RELOCATED BY DEO
3. EXISTING WATERLINE TO BE RELOCATED BY CONTRACTOR
4. STA. 33+33.50, BEGIN BRIDGE TERMINAL ASSEMBLY, TYPE 1
5. STA. 33+60.40, END BRIDGE TERMINAL ASSEMBLY, TYPE 1, BEGIN GUARDRAIL, TYPE MGS
6. STA. 33+72.90, END GUARDRAIL, TYPE MGS, BEGIN ANCHOR ASSEMBLY, TYPE E
7. SEE ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN A GENERAL NOTE FOR CURB HEIGHT TRANSITION
8. SEE TYPICAL SECTION FOR GUTTER SLOPE TRANSITION DETAILS
9. TYPE E ANCHOR ASSEMBLY SHALL BE OFFSET 9" FROM THE CURB PER MGS-5.3

CONSTRUCTION LIMITS

SOIL BORING/PAVEMENT CORE

NOTE
SEE SHEET 61 FOR DRIVEWAY PROFILES

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED VLE
CHECKED JTP

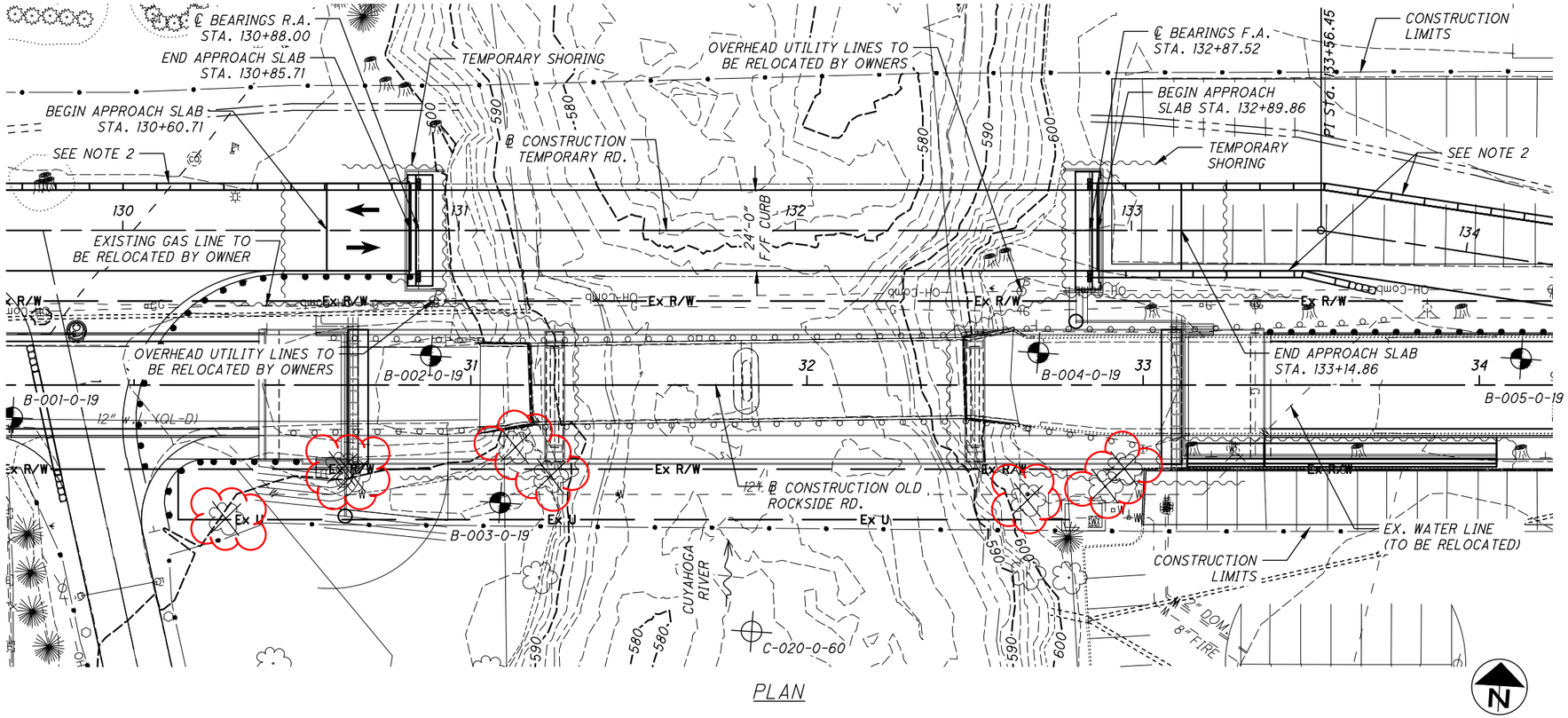
PLAN - OLD ROCKSIDE ROAD
STA. 31+00 TO STA. 36+50

CUY - OLD ROCKSIDE ROAD

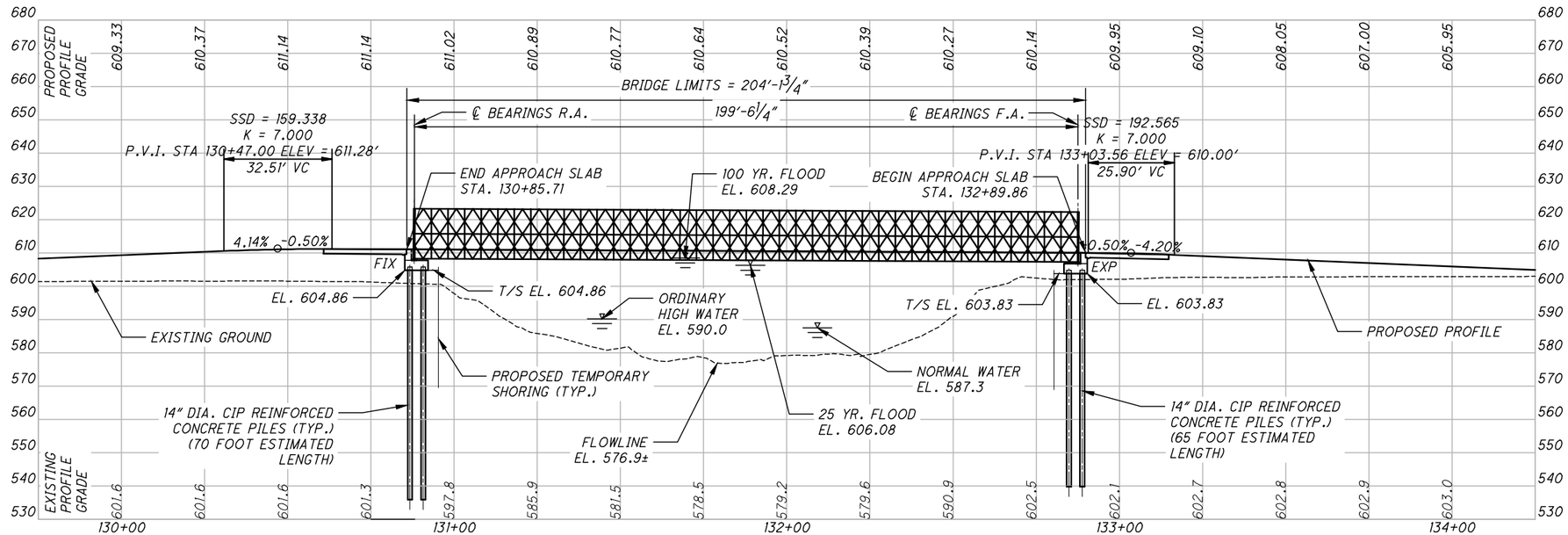
ADDENDUM 1

50
157

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PLAN



PROFILE ALONG ℄ CONSTRUCTION TEMPORARY RD.

BENCHMARKS

BENCHMARK BM5
DESCRIPTION: BENCHTIE IN TPP
NORTHING: 630757.00
EASTING: 2207232.93
STA. 29+34.76 (19.96' LT)
ELEVATION = 602.05

BENCHMARK BM6
DESCRIPTION: BENCHTIE IN
TLP 803301
NORTHING: 630804.44
EASTING: 2207829.72
STA. 35+33.38 (27.23' LT)
ELEVATION = 605.18

SOIL BORING INFORMATION

BORING NO.	B-002-0-19	B-003-0-19	B-004-0-19
STATION:	30+88.24	31+08.81	32+68.84
OFFSET:	8.64 LT	35.01 RT	9.60 LT
LATITUDE:	41.3946000	41.394500	41.394650
LONGITUDE:	-81.629600	-81.629500	-81.628950
ELEVATION:	606.97'	599.61'	607.71'

HYDRAULIC DATA

DRAINAGE AREA: 703 SQ. MI.

INTERVAL YEAR	Q CFS	V FPS	FREEBOARD
25	17,500	4.16	NONE
100	21,900	3.35	

TRAFFIC DATA

CURRENT ADT (2019): 1,800

TEMPORARY STRUCTURE

TYPE: SINGLE SPAN MODULAR STEEL TRUSS WITH EPOXY COATED STEEL DECK AND REINFORCED CONCRETE ABUTMENTS.

SKEW: NONE

SPAN: 199'-6¼" C/C BEARINGS

ROADWAY: 24'-0" F/F CURB/RAILING MINIMUM

LOADING: HL-93 AND ALL CRANE LOADS

WEARING SURFACE: NON-SKID EPOXY COATING

APPROACH SLABS: 25' LONG (AS-1-15)

ALIGNMENT: TANGENT

CROWN: NONE

LEGEND:

= PROJECT SOIL BORING

= HISTORIC SOIL BORING

= PORTABLE BARRIER

NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. PORTABLE BARRIER PER PCB-91. SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.
3. REMOVE TEMPORARY BRIDGE AFTER TRAFFIC IS RETURNED TO ORIGINAL ALIGNMENT.

BURGESS & NIPLE
100 WEST ERIE STREET
PAINESVILLE, OHIO 44077

DESIGNED KMA | DRAWN KMA | REVIEWED DWL | DATE 09/2021
CHECKED GJL | REVISED | STRUCTURE FILE NUMBER

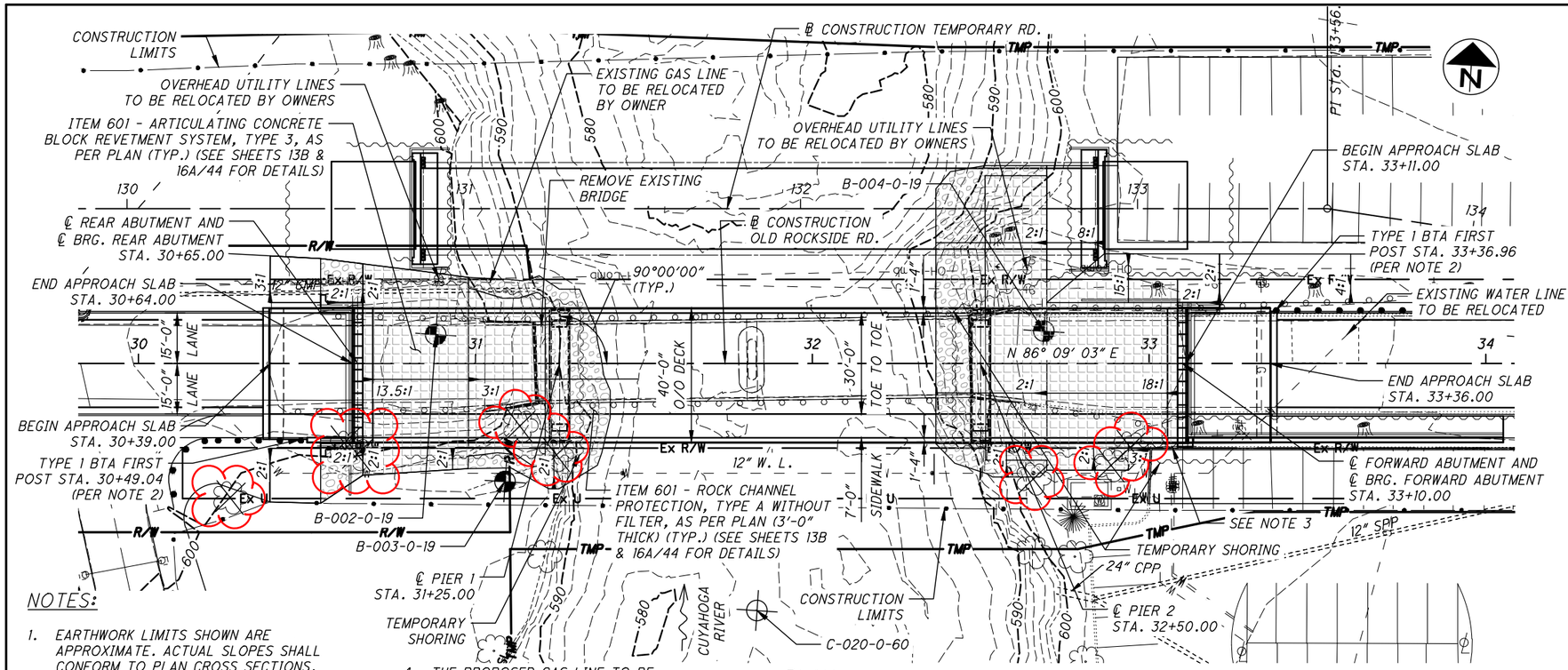
CUYAHOGA COUNTY
STA. 130+85.71
STA. 132+89.86

SITE PLAN
TEMPORARY BRIDGE 00.42 T
OVER CUYAHOGA RIVER

CUY - OLD
ROCKSIDE ROAD

ADDENDUM 1

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NOTES:

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.
3. ITEM 504 - SHEET PILING LEFT IN PLACE (MINIMUM SECTION MODULUS OF 30 CUBIC INCHES PER FOOT OF WALL) (MATCH TOP OF PROPOSED PARKING LOT CURB ELEVATIONS)
4. THE PROPOSED GAS LINE TO BE CONSTRUCTED BY DOMINION ENERGY AND ATTACHED TO THE BRIDGE IS PART OF A SEPARATE PROJECT AND IS NOT SHOWN BECAUSE THE FINAL LOCATION WAS NOT ESTABLISHED AT THE TIME OF PLAN SUBMISSION.

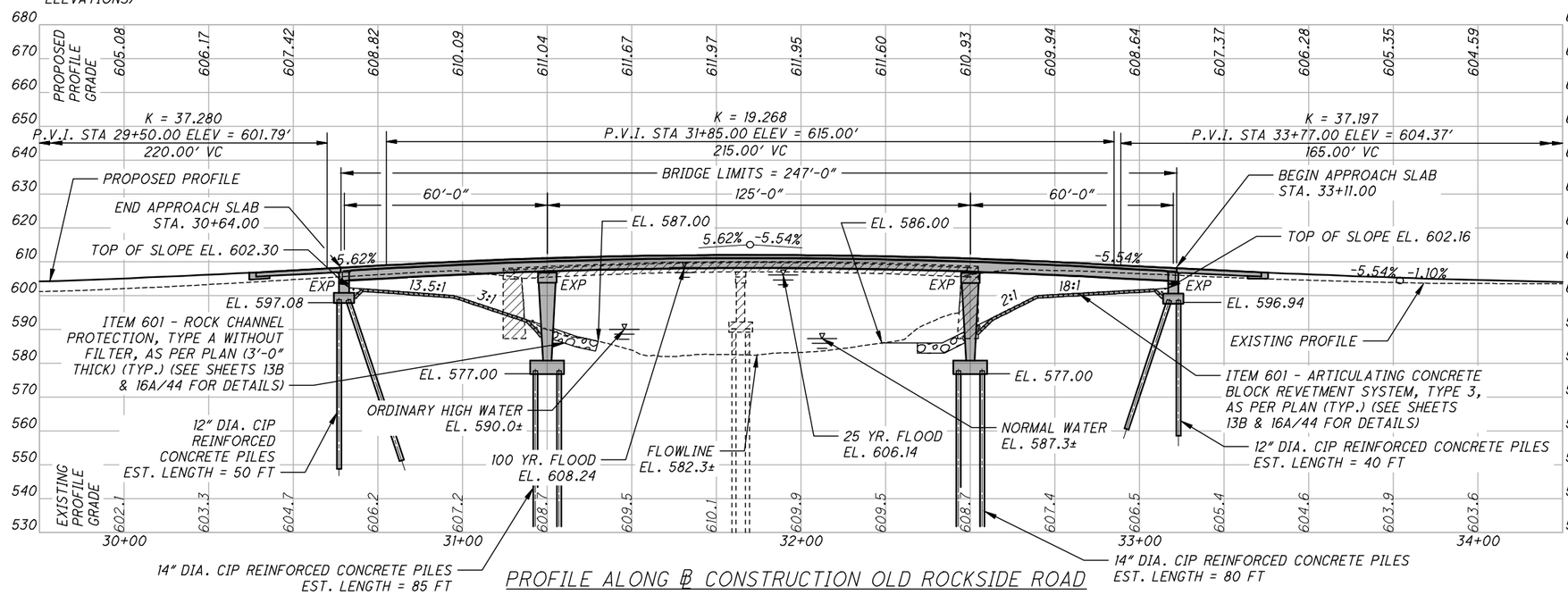
PLAN

LEGEND:

= PROJECT SOIL BORING

= HISTORIC SOIL BORING

UNITED STATES ARMY CORP OF ENGINEERS (USACE) HYDRAULIC DATA AT OLD ROCKSIDE		
	100 YEAR	25 YEAR
USACE EXISTING CONDITION (WITH PROPOSED OLD ROCKSIDE)	606.17	604.45
USACE PROPOSED FUTURE FLOODWALL	606.05	604.44



PROFILE ALONG ℄ CONSTRUCTION OLD ROCKSIDE ROAD

BENCHMARKS

BENCHMARK BM5	BENCHMARK BM6
DESCRIPTION: BENCHTIE IN TPP	DESCRIPTION: BENCHTIE IN
NORTHING: 630757.00	TLP 803301
EASTING: 2207232.93	NORTHING: 630804.44
STA. 29+34.76 (19.96' LT)	EASTING: 2207829.72
ELEVATION = 602.05	STA. 35+33.38 (27.23' LT)
	ELEVATION = 605.18

SOIL BORING INFORMATION

BORING NO.	B-002-0-19	B-003-0-19	B-004-0-19
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OFFSET:	8.64 LT	35.01 RT	9.60 LT
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LONGITUDE:	-81.629600	-81.629500	-81.628950
ELEVATION:	606.97'	599.61'	607.71'

HYDRAULIC DATA

DRAINAGE AREA: 703 SQ. MI.

INTERVAL YEAR	Q CFS	V FPS	FREEBOARD
25	17,500	4.16	NONE
100	21,900	3.35	

TRAFFIC DATA

CURRENT ADT (2022): 1,800
DESIGN YEAR ADT (2042): 1,800
DESIGN YEAR ADTT (2042): 468

EXISTING STRUCTURE

TYPE: PRECAST, PRESTRESSED, CONCRETE BOX BEAMS WITH REINFORCED CONCRETE HAMMERHEAD PIER AND STONE ABUTMENTS.

SKEW: NONE

SPAN: 65'-9"±, 65'-9"± C/C BEARINGS

ROADWAY: 22'-3½"± F/F CURB

LOADING: SPECIAL (ADEQUATE FOR H20-S16-44)

WEARING SURFACE: ASPHALTIC CONCRETE - VARIABLE THICKNESS, 2½" MIN., 6" MAX.

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: NONE

DATE BUILT: 1960

SFN: 1876082

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURES WITH SEMI-INTEGRAL ABUTMENTS.

SKEW: NONE

SPANS: 60'-0", 125'-0", 60'-0" C/C BEARINGS

ROADWAY: 30'-0" TOE OF BARRIER TO TOE OF CURB WITH 7'-0" SIDEWALK ON SOUTH SIDE

LOADING: HL-93 WITH 60 PSF FUTURE WEARING SURFACE

WEARING SURFACE: 1 1/4" MONOLITHIC CONCRETE

APPROACH SLABS: 25' LONG (AS-1-15 MODIFIED) AND AS-2-15 TYPE C INSTALLATION

ALIGNMENT: TANGENT

CROWN: 0.0156

LATITUDE: 41° 23' 40.62" N

LONGITUDE: 81° 37' 45.43" W

DECK AREA: 9880 FT²

BURGESS & NIPLE
100 WEST ERIE STREET
PAINESVILLE, OHIO 44077

DESIGNED GJL | DRAWN JMS | REVIEWED DWL | DATE 09/2021
CHECKED JAA | REVISED | STRUCTURE FILE NUMBER 1876083

CUYAHOGA COUNTY
STA. 30+64.00
STA. 33+11.00

SITE PLAN
BRIDGE 00.42
OVER CUYAHOGA RIVER

CUY - OLD ROCKSIDE ROAD

ADDENDUM 1

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ASBESTOS ABATEMENT

1) THE ASBESTOS INSPECTION DETERMINED THAT ASBESTOS IS PRESENT ON THE STRUCTURE (CUY-OLD ROCKSIDE ROAD BRIDGE) AND NEARBY ELECTRICAL BOXES IN EXCESS OF THE REGULATORY LIMITS AND REQUIRES ABATEMENT. THE CITY WILL PROVIDE THE ASBESTOS INSPECTION REPORT CONTAINING THE QUANTITIES AND LOCATIONS OF THE ASBESTOS CONTAINING MATERIALS AT THE PRE-CONSTRUCTION MEETING. A LICENSED HAZARD EVALUATION SPECIALIST WILL PROVIDE A PARTIALLY COMPLETED NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF) WITH THE ASBESTOS INSPECTION REPORT. THE ABATEMENT CONTRACTOR SHALL COMPLETE THE NDRF. ABATE, TRANSPORT, AND DISPOSE ALL ASBESTOS CONTAINING MATERIAL ABOVE ALLOWABLE REGULATORY LIMITS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. DISPOSE THE ASBESTOS CONTAINING MATERIALS IN A LANDFILL LICENSED BY THE LOCAL HEALTH DEPARTMENT. AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY - DIVISION OF AIR POLLUTION CONTROL TO ACCEPT TO ACCEPT ASBESTOS CONTAINING MATERIAL. THE REMOVAL AND DISPOSAL OF ALL ASBESTOS CONTAINING MTERIAL MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE (OAC) REGULATIONS AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) STANDARD FOR ASBESTOS.

ELECTRONIC SUBMISSION:
SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTIONS REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA eBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

HARD COPY SUBMISSION:
THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT, JOHN SOBOLEWSKI AT 216-201-200, EXT. 1515, TO DETERMINE IF THEY REQUIRE HARD COPY SUBMITTAL. SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN COMPLETED NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF, MARK CARPENTER, ODOT D-12, 216-583-2089.

BASIS OF PAYMENT:
SUBMIT ALL DOCUMENTATION RELATED TO THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS TO THE ENGINEER WITHIN TWO WEEKS OF COMPLETION. THE ENGINEER WILL PROVIDE A COPY OF THE DOCUMENTATION TO THE DISTRICT ENVIRONMENTAL STAFF. PAYMENT FOR THIS WORK SHALL BE MADE AT THE BID PRICE OF LUMP SUM.

THE FOLLOWING ITEM HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR THE WORK NOTED ABOVE:

ITEM SPECIAL - WORK INVOLVING
ASBESTOS CONTAINING MATERIALS — LUMP SUM

3" PRECOMPRESSED FOAM JOINT

DESCRIPTION: THIS WORK SHALL CONSIST OF SEALING JOINTS USING PRECOMPRESSED FOAM JOINT IN ACCORDANCE WITH THESE SPECIFICATIONS, IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER.

MATERIALS: THE MATERIAL SHALL BE A PRECOMPRESSED FOAM JOINT (PFJ) SUCH AS THE EMSEAL BEJS SYSTEM, SCHUL INTERNATIONAL SEALTITE 50N, WATSON BOWMAN ACME WABO HSEAL OR AN APPROVED EQUAL. THE FOAM JOINT SYSTEM IS COMPRISED OF THREE COMPONENTS:

1. MODIFIED ACRYLIC IMPREGNATED FOAM COMPRESSED 5-TIMES AND FACTORY COATED WITH HIGHWAY GRADE, FUEL RESISTANT SILICONE;

2. FIELD-APPLIED EPOXY ADHESIVE PRIMER;

3. FIELD-APPLIED SILICONE CORNER BEADS.

EMSEAL BEJS SYSTEM CAN BE OBTAINED FROM EMSEAL JOINT SYSTEMS, LTD. 23 BRIDLE LANE, SUITE 3, WESTBOROUGH, MA 10581-1228. THEIR PHONE NUMBER IS 1-800-526-8365. SCHUL INTERNATIONAL SEALTITE 50N SYSTEM CAN BE OBTAINED FROM SCHUL INTERNATIONAL, ONE INDUSTRIAL DRIVE, PELHAM, NH 03076. THEIR PHONE NUMBER IS 1-800-848-1120. WATSON BOWMAN ACME WABO HSEAL SYSTEM CAN BE OBTAINED FROM WATSON BOWMAN ACME, 95 PINEVIEW DRIVE, AMHERST, NY 14228. THEIR PHONE NUMBER IS 1-800-677-4922. ALL MATERIAL SHALL BE STORED AND INCORPORATED IN THE WORK AS RECOMMENDED BY THE MANUFACTURER.

SURFACE PREPARATION: THE FACES TO WHICH THE FOAM JOINT MUST ADHERE SHALL BE BLASTED CLEAN AND BE FREE FROM FOREIGN MATERIAL SUCH AS DIRT, DUST, GREASE, FORM RELEASE AGENTS AND ANY OTHER MATERIAL DETRIMENTAL TO ADHESION OF THE SEALANT. BLASTING ABRASIVE CONTAINING MORE THAN 1% FREE SILICA SHALL NOT BE ALLOWED.

INSTALLATION: THE FOAM JOINT SHALL BE INSTALLED ONLY WHEN THE SURFACES ARE DRY AND THE SURFACE TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT. NEW CONCRETE MUST HAVE BEEN AIR CURED AT LEAST 7 DAYS IN GOOD DRYING WEATHER. DO NOT PROCEED WITH INSTALLATION UNDER ADVERSE WEATHER CONDITIONS. BOTH CONCRETE SURFACES ADJACENT TO THE FOAM JOINT SHALL BE PRIMED WITH ADHESIVE AS RECOMMENDED BY THE MANUFACTURER. THE FOAM JOINT SHALL BE REMOVED FROM THE PACKAGING, COATED WITH ADHESIVE AS RECOMMENDED BY THE MANUFACTURER AND ITS NARROW EDGE INSERTED INTO THE JOINT OPENING. THE FOAM JOINT SHALL BE WEDGED IN PLACE WHILE IT RECOVERS. AT TEMPERATURES ABOVE 68 DEGREES FAHRENHEIT THE MATERIAL WILL RECOVER IN A FEW HOURS. AT TEMPERATURES BELOW 68 DEGREES FAHRENHEIT, THE RECOVERY SHALL BE ACCELERATED BY HEATING WITH AN OPEN FLAME, GAS BURNER, INFRA-RED LAMP OR HOT AIR BLOWER. JOINTS SHALL BE KEPT TO A MINIMUM AND MADE BY PUSHING MITERS TOGETHER AND APPLYING A THIN BEAD OF SILICONE SEALANT ALONG THE MITERED JOINT IN THE SILICONE FACING. THE FOAM JOINT IS TO BE INSTALLED APPROXIMATELY 1/4" RECESSED FROM THE SURFACE SUCH THAT WHEN THE FIELD APPLIED CORNER BEADS OF SILICONE ARE INSTALLED THE SYSTEM WILL BE ESSENTIALLY FLUSH WITH THE SUBSTRATE SURFACE. ONCE THE FOAM JOINT HAS FULLY EXPANDED ACROSS THE JOINT GAP A 1/4" X 1/4" BEAD OF SILICONE SHALL BE GUNNED AND TOOLED INTO EACH OF THE CORNERS FORMED AT THE SUBSTRATE-TO-BELLOS INTERFACES.

INCLUDE PRECOMPRESSED FOAM JOINT WITH ITEM 511- CLASS QC1 CONCRETE WITH QC/QA ABUTMENT INCLUDING FOOTING, AS PER PLAN FOR PAYMENT.

ITEM 202 - STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN:

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. LIMITS OF REMOVAL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ITEMS TO BE REMOVED INCLUDE THE EXISTING STRUCTURE IN ITS ENTIRETY TO ELEVATIONS DETAILED IN THE PLANS, THE EXISTING TIMBER PILING BETWEEN THE SLOPE PROTECTION AND THE RIVER TO THE EXTENT REQUIRED TO BUILD THE PROPOSED PIERS, EXISTING SUBSTRUCTURE FOUNDATION PILES THAT INTERFERE WITH NEW CONSTRUCTION, ANY DEBRIS BUILDUP ON THE EXISTING PIER, AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. SUBMIT WORKING DRAWINGS AND CALCULATIONS IN ACCORDANCE WITH CMS 501.05.

ALL CONCRETE, REINFORCING STEEL ASPHALT, ETC. REMOVED FROM THE STRUCTURE AND NOT REUSED SHALL, UNLESS OTHERWISE SPECIFIED, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM/HER FROM THE SITE. THE MATERIALS SHALL NOT BE PERMITTED TO REMAIN ON SITE, WITHIN THE RIGHT-OF-WAY OR ELSEWHERE UNLESS SPECIFIED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK NECESSARY TO COORDINATE WITH THE COUNTY. THE USE OF EXPLOSIVES AND HEADACHE BALLS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL SHALL BE APPROVED BY THE ENGINEER. THE COUNTY WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS AT THE CONTRACT BID PRICE FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 208 - VIBRATION CONTROL AND MONITORING, AS PER PLAN

STRUCTURES OF INTEREST INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- BUILDING AT 8111 ROCKSIDE RD, CLEVELAND, OH 44125
- BUILDING AT 8001 ROCKSIDE RD, CLEVELAND, OH 44125
- BUILDING AT 6150 W CANAL RD, VALLEY VIEW, OH 44125
- BUILDING AT 7919 OLD ROCKSIDE RD, CLEVELAND, OH 44125
- EXISTING/RELOCATED GAS LINE ALONG THE NORTH SIDE OF OLD ROCKSIDE RD
- EXISTING/RELOCATED WATER LINE SOUTH OF OLD ROCKSIDE RD

MONITOR GROUND VIBRATIONS CAUSED BY PILE DRIVING TO MINIMIZE THE POTENTIAL DAMAGE TO EXISTING STRUCTURES.

RETAIN AN EXPERIENCED VIBRATION SPECIALIST TO ESTABLISH THE ACCEPTABLE VIBRATION LIMITS AND TO PERFORM THE VIBRATION MONITORING. USE A VIBRATION SPECIALIST THAT IS AN EXPERT IN THE INTERPRETATION OF VIBRATION DATA, AND WHO MEETS ONE OF THE FOLLOWING CRITERIA: 1) IS A REGISTERED ENGINEER WITH AT LEAST TWO YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS, OR 2) HAS AT LEAST FIVE YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS. DO NOT USE A VIBRATION SPECIALIST THAT IS AN EMPLOYEE OF THE CONTRACTOR.

SUBMIT A RESUME OF THE CREDENTIALS OF THE PROPOSED VIBRATION SPECIALIST AT OR BEFORE THE PRECONSTRUCTION MEETING. INCLUDE IN THE RESUME A LIST OF CONSTRUCTION PROJECTS ON WHICH THE VIBRATION SPECIALIST WAS RESPONSIBLY IN CHARGE OF MONITORING THE VIBRATIONS. LIST A DESCRIPTION OF THE PROJECTS, WITH DETAILS OF THE VIBRATION INTERPRETATIONS MADE ON THE PROJECT. LIST THE NAMES AND TELEPHONE NUMBERS OF PROJECT OWNERS WITH SUFFICIENT KNOWLEDGE OF THE PROJECTS TO VERIFY THE SUBMITTED INFORMATION. OBTAIN THE ENGINEER'S ACCEPTANCE OF THE VIBRATION SPECIALIST BEFORE BEGINNING ANY PILE DRIVING WORK. ALLOW 30 DAYS FOR THE REVIEW OF THIS DOCUMENTATION.

USE SEISMOGRAPHS CAPABLE OF CONTINUOUSLY RECORDING THE PEAK PARTICLE VELOCITY FOR THREE MUTUALLY PERPENDICULAR COMPONENTS OF VIBRATION, AND OF PROVIDING A PERMANENT RECORD OF THE ENTIRE VIBRATION EVENT. USE A SUFFICIENT NUMBER OF SEISMOGRAPHS TO PROVIDE REDUNDANCY IN CASE ONE DEVICE SHOULD FAIL. SUBMIT A PLAN OF THE PROPOSED SEISMOGRAPH LOCATIONS TO THE ENGINEER FOR REVIEW.

THE VIBRATION SPECIALIST SHALL PERFORM THE FOLLOWING:

1. MEASURE THE AMBIENT GROUND VIBRATIONS NEAR EXISTING STRUCTURES BEFORE PILE DRIVING BEGINS.
2. ESTABLISH VIBRATION LIMITS TO MINIMIZE POTENTIAL DAMAGE TO EXISTING STRUCTURES AND EXPLAIN WHY THEY ARE BEING USED TO THE ENGINEER BEFORE DRIVING PILES NEAR EXISTING STRUCTURES.
3. MONITOR GROUND VIBRATIONS DURING PILE DRIVING.
4. IMMEDIATELY INFORM THE CONTRACTOR AND ENGINEER IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED.
5. FURNISH THE DATA RECORDED AND INCLUDE THE FOLLOWING:
   A. IDENTIFICATION OF SEISMOGRAPH.
   B. DISTANCE AND DIRECTION OF SEISMOGRAPH FROM PILE DRIVING.
   C. START TIME AND DURATION OF PILE DRIVING.
   D. LIST OF PILES DRIVEN DURING EACH MONITORING INTERVAL.

IMMEDIATELY SUSPEND ALL PILE DRIVING IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED. EVALUATE ALTERNATIVE CONSTRUCTION PROCEDURES, SUCH AS PREBORED HOLES, TO REDUCE THE VIBRATIONS.

SUBMIT THREE COPIES OF THE FINAL REPORT WHICH CONTAINS ALL MEASUREMENTS, INTERPRETATIONS, AND RECOMMENDATIONS TO THE ENGINEER.

THE COUNTY WILL PAY FOR THIS ITEM AT THE CONTRACT LUMP SUM PRICE FOR ITEM 208 - VIBRATION CONTROL AND MONITORING, AS PER PLAN. THE COUNTY WILL PAY THE FINAL TWENTY PERCENT AFTER THE ENGINEER RECEIVES THE FINAL REPORT.

THE COUNTY WILL PAY ACCORDING TO C&MS 109.05 FOR ALTERNATIVE CONSTRUCTION PROCEDURES THAT THE ENGINEER DETERMINES ARE NECESSARY TO REDUCE VIBRATIONS AND ARE NOT A CONTINGENCY QUANTITY IN THESE PLANS.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

ALL PROVISIONS OF CMS 503 SHALL APPLY EXCEPT THAT THE USE OF SLAG AS BACKFILL MATERIAL IN ANY FORM (503.08, 203.02.R, AND 703.16) IS NOT PERMITTED. THE BACKFILL MATERIAL SHALL BE MATERIAL CONFORMING TO CMS 703.17 (CMS 304 MATERIAL) AND MEET THE COMPACTION REQUIREMENTS OF CMS 304.05. IN ADDITION, THE BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN 6" LIFTS.

ITEM 507 - 12" AND 14" CAST-IN PLACE REINFORCED CONCRETE PILES, DRIVEN, AS PER PLAN

PILE DRIVING PROCEDURES SHALL CONSIDER VIBRATIONS TRANSMITTED TO ADJACENT BUILDINGS AND ALTERED AS NECESSARY TO REDUCE PEAK PARTICLE VELOCITY AT NO ADDITIONAL COST TO THE COUNTY. SEE THIS SHEET FOR ITEM 208 - VIBRATION CONTROL AND MONITORING, AS PER PLAN NOTE. A CONTINGENCY QUANTITY OF 300 FEET HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

ITEM 507 - 12" AND 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED, AS PER PLAN

STEEL PIPE SHALL BE ASTM A252, GRADE 2 YIELD STRENGTH 35 KSI (12" DIAMETER CAST-IN-PLACE REINFORCED CONCRETE PILES) AND ASTM A252, GRADE 3 YIELD STRENGTH 45 KSI (14" DIAMETER CAST-IN-PLACE REINFORCED CONCRETE PILES).

THIS ITEM SHALL INCLUDE SPLICES AND SHALL BE USED WHEN PREBORING IS REQUIRED AND THE PILE NEEDS TO BE LENGTHENED TO OBTAIN THE ULTIMATE BEARING VALUE SPECIFIED.

ITEM 507 - PREBORED HOLES, AS PER PLAN

IF THE VIBRATION LEVELS ON THE STRUCTURES BEING MONITORED DURING PILE DRIVING OPERATIONS EXCEED THE ALLOWABLE PEAK PARTICLE VELOCITY LIMITS DETERMINED BY THE VIBRATION SPECIALIST, PREBORED HOLES MAY BE USED AT THE DIRECTION OF THE VIBRATION SPECIALIST AND THE ACCEPTANCE OF THE ENGINEER. THE DIAMETER OF THE PREBORED HOLE SHALL NOT BE LESS THAN THE DIAMETER OF THE PILE NOR GREATER THAN 2 INCHES MORE THAN THE PILE DIAMETER. A CONTINGENCY QUANTITY OF 300 FEET HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES. MEASUREMENT AND PAYMENT WILL BE ACCORDING TO CMS ITEM 507.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO 709.00.

ADDENDUM 1

DESIGN AGENCY
BURGESS & NIPLE
100 WEST ERIE STREET
PAINESVILLE, OHIO 44077

DESIGNED	DRAWN	REVIEWED	DATE
BCS	BCS	DWL	09/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
MAB		1876083	

STRUCTURE NOTES 2 OF 4
BRIDGE 00.42
OVER CUYAHOGA RIVER

CUY - OLD ROCKSIDE ROAD

3 / 44

101 / 157

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ITEM SPECIAL - SEALING: ELASTOMERIC PROTECTIVE AND DECORATIVE CONCRETE COATING

THIS ITEM SHALL CONFORM TO "ITEM SPECIAL - SEALING, ELASTOMERIC PROTECTIVE AND DECORATIVE COATING" AS CONTAINED IN "SECTION 400 PROPOSAL NOTES" OF THE CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET.

THE COLOR OF THE PROPOSED SEALER SHALL BE AS FOLLOWS:

BEIGE, FEDERAL STANDARD COLOR NO. 595-26555 FOR THE SIMULATED STONE PARAPET CAP, THE SIDE OF CONCRETE DECK FASCIA, THE UNDERSIDE OF DECK FROM THE OUTER EDGE TO THE EXTERIOR BEAM, WINGWALL TOPS, ABUTMENTS, DIAPHRAGMS, AND PIER CAPS.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER MATERIAL USED TO CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

ITEM 517 - RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN

CONCRETE SHALL BE ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, AS PER PLAN.

THE STRUCTURAL STEEL RAILINGS AND RAIL POSTS SHALL NOT BE GALVANIZED OR METALIZED. INSTEAD, A THREE-COAT PAINT SYSTEM CONSISTING OF AN INORGANIC ZINC PRIME COAT, AN EPOXY INTERMEDIATE COAT AND A URETHANE FINISH COAT AS PER CMS 514 SHALL BE APPLIED TO THESE STEEL ELEMENTS. THE COLOR OF THE URETHANE FINISH COAT SHALL BE BLACK, FEDERAL STANDARD COLOR NO. 27038, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. ALL NUTS, BOLTS AND OTHER RAILING APPURTENANCES SHALL ALSO BE PAINTED TO MATCH THE FINAL COLOR OF THE STEEL RAILINGS AND POSTS.

IN ADDITION TO THE VOLUME OF CONCRETE REQUIRED PER ODOT STANDARD DRAWING BR-2-15 FOR CONSTRUCTION OF PARAPETS, ANY ADDITIONAL CONCRETE NEEDED TO CREATE THE FORMLINED ARCHITECTURAL TREATMENT SHALL BE INCLUDED WITH ITEM 511 - CONCRETE MISC.: ARCHITECTURAL TREATMENT FOR PAYMENT. ALL MATERIALS AND LABOR REQUIRED FOR THE APPLICATION OF THE FORMLINERS AND CONCRETE STAIN SHALL ALSO BE INCLUDED WITH ITEM 511 - CONCRETE MISC.: ARCHITECTURAL TREATMENT FOR PAYMENT.

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN

POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN SHALL BE 2 FEET THICK AND EXTENDED UP TO 1 FOOT BELOW THE EMBANKMENT SURFACE AND LATERALLY TO THE ENDS OF THE WINGWALLS. TURN GEOTEXTILE FABRIC UP TO 6 INCHES AGAINST ABUTMENT OR WINGWALL.

MATERIAL FOR POROUS BACKFILL SHALL BE LIMITED TO STONE. USE OF SLAG, IN ANY FORM, IS NOT PERMITTED.

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 15"), AS PER PLAN

CONCRETE SHALL BE ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN. THE COST OF THE SIDEWALKS ON THE APPROACH SLABS SHALL BE INCLUDED IN ITEMS 509 AND 511. THE COST OF THE RAILING ON THE APPROACH SLABS SHALL BE INCLUDED WITH ITEM 517 - RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN.

ITEM SPECIAL - STRUCTURES: PROTECTION OF FACILITIES

THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO PROTECT EXISTING FACILITIES AS APPROVED AND DIRECTED BY THE ENGINEER DURING CONSTRUCTION.

THE CONTRACTOR IS REMINDED THAT ALL EXISTING COMPONENTS AND SYSTEMS ARE TO REMAIN IN USE DURING AND AFTER THIS PROJECT AND REQUIRE PROTECTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO:

1. FIBER OPTIC CABLES
2. CUYAHOGA VALLEY NATIONAL PARK PROPERTY
3. DRIVEWAY TO CVSR PARKING LOT AND THORNBURG STATION
4. ELECTRIC LINES AND POLES
5. GAS LINES
6. WATERLINES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THESE SYSTEMS AND COMPONENTS FOR THE DURATION OF THE CONTRACT. THE CONTRACTOR IS DIRECTED TO SECTION 107 AND PARTICULARLY TO SECTION 107.12 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

PAYMENT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM SPECIAL - STRUCTURES: PROTECTION OF FACILITIES. THIS SHALL INCLUDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO SUCCESSFULLY PERFORM THIS ITEM OF WORK.

ITEM SPECIAL - STRUCTURES: PRECONSTRUCTION CONDITION SURVEY

BEFORE PILE DRIVING BEGINS, CONDUCT A CONDITION SURVEY OF ANY EXISTING BUILDING, STRUCTURE, OR UTILITY WITHIN 200 FEET OF THE PILE DRIVING WORK. THE PURPOSE OF THE SURVEY IS TO DOCUMENT THE CONDITION OF THE BUILDING, STRUCTURE, OR UTILITY PRIOR TO PILE DRIVING, SO THAT ANY CLAIMS OF DAMAGE CAUSED BY THE PILE DRIVING CAN BE VERIFIED.

RETAIN AN EXPERIENCED VIBRATION SPECIALIST TO PERFORM OR SUPERVISE THE CONDITION SURVEY. USE A VIBRATION SPECIALIST THAT MEETS THE REQUIREMENTS LISTED IN ITEM 208 - VIBRATION CONTROL AND MONITORING, AS PER PLAN.

RECORD THE CONDITION OF EXISTING STRUCTURES AND BUILDING MATERIALS USING WRITTEN TEXT, PHOTOGRAPHS, AND VIDEO RECORDINGS. INSPECT INTERIOR WALLS, CEILINGS, AND FLOORS THAT ARE ACCESSIBLE. INSPECT THE EXTERIOR OF THE BUILDING THAT IS VISIBLE FROM GROUND LEVEL. ALSO RECORD THE LOCATION, SIZE, AND TYPE OF ALL CRACKS AND OTHER STRUCTURAL DEFICIENCIES.

IF OWNERS OR OCCUPANTS FAIL TO ALLOW ACCESS TO THE PROPERTY FOR THE PRECONSTRUCTION CONDITION SURVEY, SEND A CERTIFIED LETTER TO THE OWNER OR OCCUPANT. DOCUMENT THE NOTIFICATION EFFORT AND THE CERTIFIED LETTER IN THE REPORT.

SUBMIT A REPORT TO THE ENGINEER THAT SUMMARIZES THE PRECONSTRUCTION CONDITION OF THE BUILDINGS, STRUCTURES, AND UTILITIES, AND THAT IDENTIFIES AREAS OF CONCERN. SUBMIT THREE COPIES OF THE REPORT.

THE COUNTY WILL PAY FOR THIS ITEM AT THE CONTRACT LUMP SUM PRICE FOR ITEM SPECIAL - STRUCTURES: PRECONSTRUCTION CONDITION SURVEY.

ITEM 601 - ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 3, AS PER PLAN

DESIGN THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM PER THE HYDRAULIC STABILITY METHOD IN THE NCMA DESIGN MANUAL FOR ACB REVETMENT SYSTEMS WITH A MINIMUM SAFETY FACTOR OF 2.0 AND A DESIGN VOLUMETRIC FLOW OF 8 CUBIC FEET PER SECOND. PROVIDE DOCUMENTS TO SUPPLEMENT THE PLAN DETAILS TO PREPARE THE RIVERBANKS AND FURNISH AND INSTALL ARTICULATED CONCRETE BLOCK (ACB) MATS ON A GEOTEXTILE FABRIC IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS, THESE SPECIFICATIONS AND THE SLOPE PROTECTION DETAIL PLAN SHEETS. INCLUDE THE COSTS OF PREPARING AND SHAPING THE CHANNEL BANKS IN THIS ITEM. PROVIDE A WOVEN MONOFILAMENT OR NON-WOVEN GEOTEXTILE FABRIC WITH A PERCENT OPEN AREA (POA) GREATER THAN 4% AND A PERMEABILITY GREATER THAN THE UNDERLYING MATERIAL. MAINTAIN A MAXIMUM PROTRUSION HEIGHT FOR THE BLOCKS OF ONE-HALF INCH OR LESS. CONCRETE FOR JOINTS AND BACKFILL SHALL BE 4,000 PSI CONFORMING TO ITEM 511-CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN. CABLES MAY BE EITHER POLYESTER OR GALVANIZED STEEL. BACKFILL THE OPEN AREAS OF THE ACB SYSTEM WITH NO. 6 UNIFORM CRUSHED STONE PER C&MS 703.01. PAY FOR THE DESIGN DOCUMENTS, ARTICULATED CONCRETE BLOCKS, CABLES, CONCRETE, GEOTEXTILE FABRIC (INCLUDING GEOTEXTILE FABRIC UNDERNEATH FILL CONCRETE AND ROCK CHANNEL PROTECTION), CRUSHED STONE AND ALL OTHER MATERIAL, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THE ACB INSTALLATION ACCORDING TO THESE PLANS, THE CONTRACTOR'S DESIGN DOCUMENTS AND THE MANUFACTURER'S REQUIREMENTS AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 601 - ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 3, AS PER PLAN.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITHOUT FILTER, AS PER PLAN

USE ROCK CHANNEL PROTECTION (RCP) ITEM TO ARMOR AND ANCHOR THE ARTICULATING CONCRETE BLOCK (ACB) REVETMENT SYSTEM IN THE FLANK TERMINATIONS AS WELL AS THE TOE TERMINATION TRENCHES IN THE RIVER BOTTOM DOWN TO THE ELEVATIONS AS SHOWN ON THE SLOPE PROTECTION DETAIL PLAN SHEETS. PAY FOR FURNISHING AND PLACING THE ROCK CHANNEL PROTECTION AS DETAILED IN THE PLANS AT THE UNIT PRICE BID PER CUBIC YARD FOR TIME 601 - ROCK CHANNEL PROTECTION, TYPE A WITHOUT FILTER, AS PER PLAN.

ITEM SPECIAL - CONTRACTOR ACCESS

ANY TEMPORARY ACCESS FILL WITHIN "WATERS OF THE U.S." (EG., STREAMS AND WETLANDS) SUBJECT TO THE U.S. ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION WILL REQUIRE AUTHORIZATION BY THE USACE PRIOR TO THE PLACEMENT OF TEMPORARY FILL VIA THE WATERWAY PERMITTING PROCESS (404/401). ALL TEMPORARY CONSTRUCTION ACCESS FILL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS AND SHALL NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA OF TEMPORARY FILL THAT HAS BEEN PERMITTED. ALL TEMPORARY CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITHIN THE EXISTING AND PROPOSED TEMPORARY AND PERMANENT RIGHT OF WAY AS SHOWN IN THESE PLANS. THE WATERWAY PERMITS CAN BE REVIEWED AT THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS OFFICE OR AS INCLUDED IN THE BID PACKAGE SPECIAL PROVISIONS.

SEE SHEET 7/44 FOR MORE DETAILS.

PILES DRIVEN TO FULL ESTIMATED LENGTH WITH PILE/SOIL SETUP

THE ULTIMATE BEARING VALUE (UBV) IS 125 KIPS PER PILE FOR THE 12" CAST-IN-PLACE REINFORCED CONCRETE REAR AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE (UBV) IS 355 KIPS PER PILE FOR THE 14" CAST-IN-PLACE REINFORCED CONCRETE PIER 1 AND PIER 2 PILES. PART OF THE UBV WILL BE ACHIEVED THROUGH PILE/SOIL SETUP, WHICH IS A TIME DEPENDENT INCREASE IN RESISTANCE THAT OCCURS IN SOME SOILS.

NOTIFY THE ENGINEER AT LEAST 5 DAYS BEFORE DRIVING PILES SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

DRIVE THE FIRST TWO PILES AT THE REAR AND FORWARD ABUTMENT TO THE FULL ESTIMATED LENGTH OF 50 FEET AND 40 FEET RESPECTIVELY. DRIVE THE FIRST TWO PILES AT PIER 1 AND PIER 2 TO THE FULL ESTIMATED LENGTH OF 85 FEET AND 80 FEET RESPECTIVELY. PERFORM DYNAMIC LOAD TESTING ON BOTH PILES WHILE DRIVING. AFTER DRIVING AND TESTING THE FIRST TWO PILES, DRIVE THE REMAINING PILES IN THE SUBSTRUCTURE TO THE SAME DEPTH AS THE FIRST TWO PILES. AFTER DRIVING ALL PILES TO THE ESTIMATED LENGTH, CEASE ALL DRIVING OPERATIONS AT THE SUBSTRUCTURE FOR A PERIOD OF 14 DAYS. INCLUDE THE WAITING PERIOD AS A SEPARATE ACTIVITY IN THE PROGRESS SCHEDULE. AFTER THE WAITING PERIOD, PERFORM PILE RESTRIKES ON BOTH OF THE FIRST TWO PILES (ONE RESTRIKE ITEM).

SUBMIT ALL TEST RESULTS TO THE ENGINEER. IF THE RESTRIKE TEST RESULTS INDICATE THAT BOTH PILES ACHIEVED THE REQUIRED UBV, ALL PILES IN THE SUBSTRUCTURE MAY BE ACCEPTED BY THE ENGINEER.

IF THE RESTRIKE TEST RESULTS INDICATE THAT EITHER OF THE TWO PILES DID NOT ACHIEVE THE REQUIRED UBV, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING. THE ENGINEER WILL REVIEW THE TEST RESULTS AND ESTABLISH ADDITIONAL RESTRIKE TESTING OR DRIVING CRITERIA FOR THE PILING IN THE SUBSTRUCTURE WITH THE ASSISTANCE OF THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

IF DIRECTED BY THE ENGINEER, PERFORM ADDITIONAL RESTRIKE TESTING OR DRIVE ALL PILES IN THE SUBSTRUCTURE TO THE ESTABLISHED DRIVING CRITERIA. THE DEPARTMENT WILL PAY FOR SPLICING OF THE PILES BEYOND THE ESTIMATED LENGTH PROVIDED IN THE PLANS UNDER C&MS 109.05 WITH A NEGOTIATED PRICE PER SPLICE.

THIS PLAN NOTE INCLUDES A QUANTITY OF ONE EACH ITEM 523 DYNAMIC LOAD TESTING, AS PER PLAN AND A QUANTITY OF ONE EACH ITEM 523 RESTRIKE, AS PER PLAN PER EACH SUBSTRUCTURE UNIT.

ADDENDUM 1

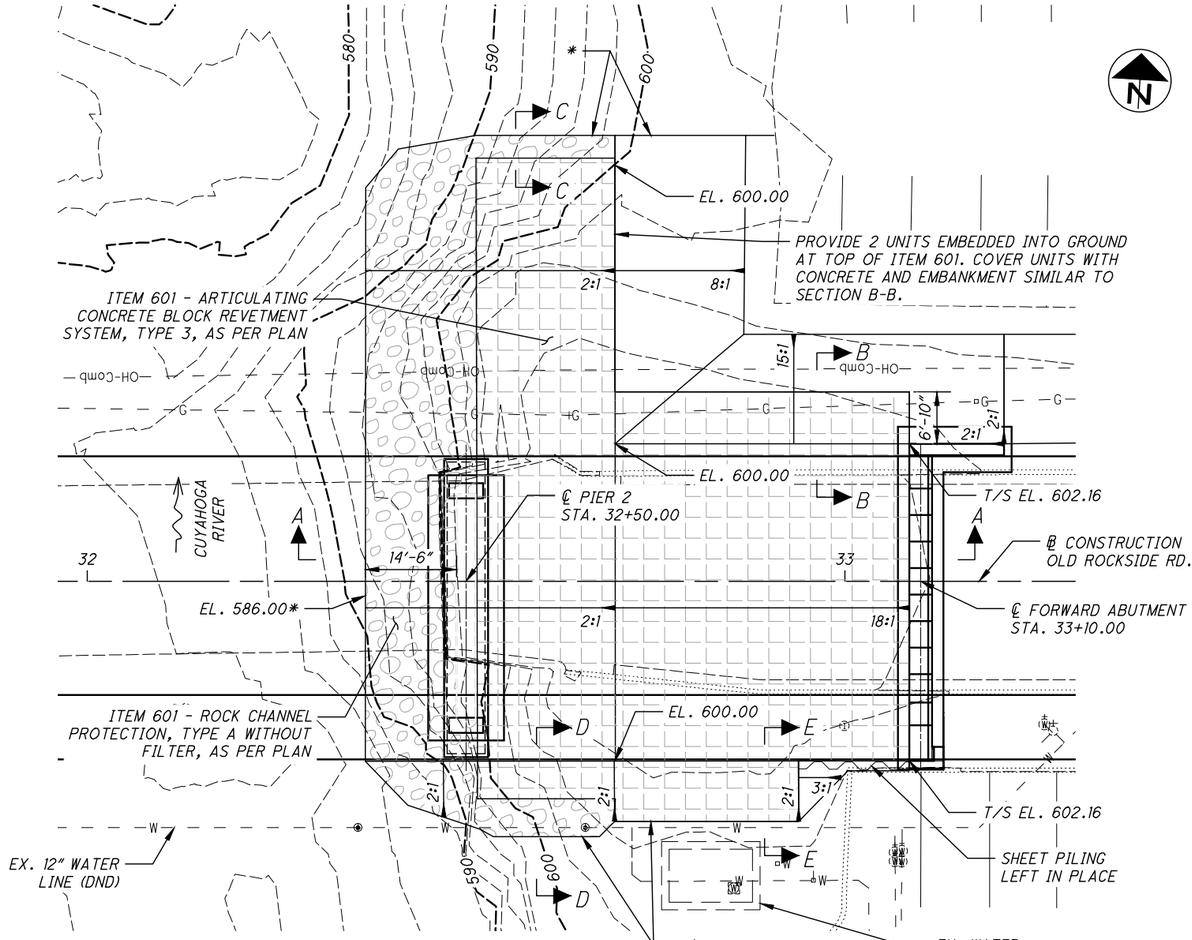
DESIGN AGENCY
BURGESS & NIPLE
100 WEST ERIE STREET
PAINESVILLE, OHIO 44077

DESIGNED	DRAWN	REVIEWED	DATE
BCS	BCS	DWL	09/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
MAB		1876083	

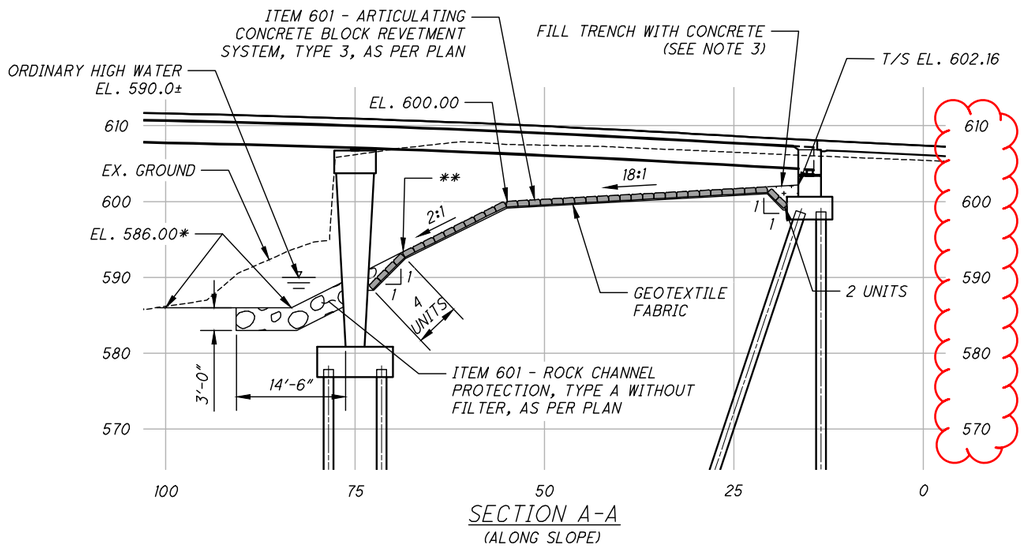
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BRIDGE 00.42
OVER CUYAHOGA RIVER

CUY - OLD ROCKSIDE ROAD

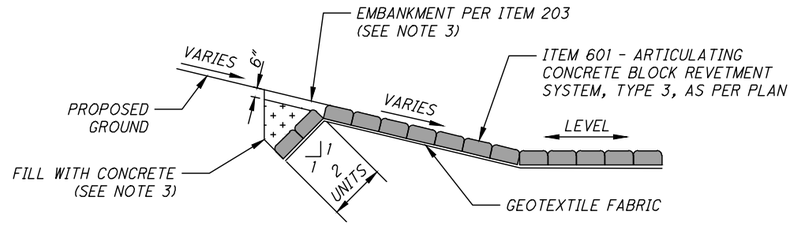
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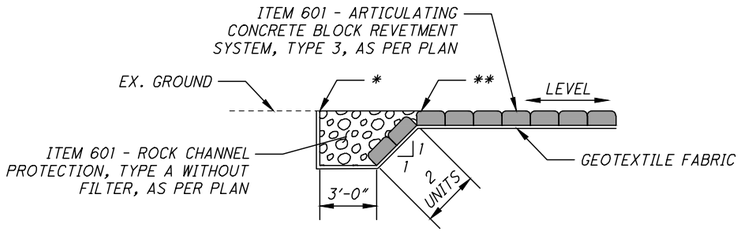
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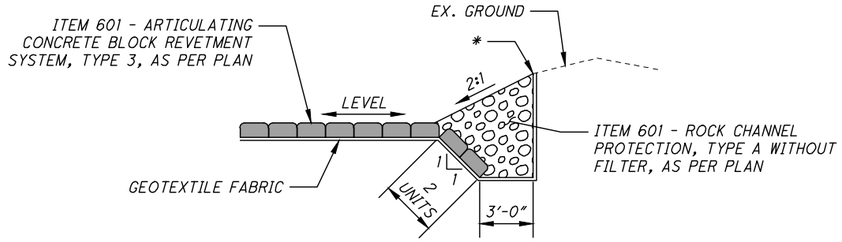
SECTION A-A
(ALONG SLOPE)



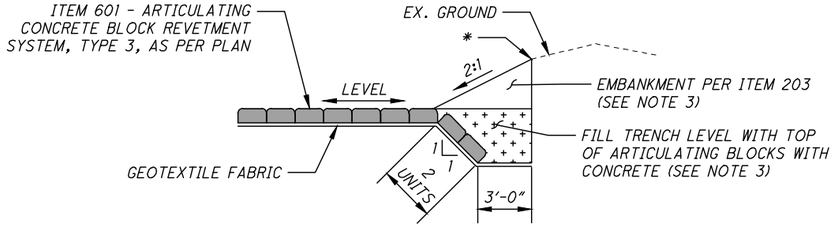
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

NOTES:

1. SEE ROADWAY SHEET 63/157 FOR PARKING LOT RESTORATION DETAILS AND ELEVATIONS.
2. LAY ARTICULATING CONCRETE BLOCK MATS PERPENDICULAR WITH THE FACE OF ABUTMENT.
3. INCLUDED FOR PAYMENT WITH ITEM 601 - ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 3, AS PER PLAN. SEE SHEET 5/44 FOR NOTE.

LEGEND:

* = MEET EXISTING GROUND

** = MATCH EXISTING SLOPE UNTIL EXISTING GROUND IS MET

= ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITHOUT FILTER, AS PER PLAN

= ITEM 601 - ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 3, AS PER PLAN

= CONCRETE FILL

ADDENDUM 1

DESIGN AGENCY
BURGESS & NIPLE
100 WEST ERIE STREET
PAINESVILLE, OHIO 44077

DESIGNED	DRAWN	REVIEWED	DATE
KMA	KMA	DWL	09/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JAA		1876083	

FORWARD ABUTMENT SLOPE PROTECTION DETAILS
BRIDGE 00.42
OVER CUYAHOGA RIVER

CUY - OLD ROCKSIDE ROAD

16A / 44
114A / 157

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