ITEM SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OR REMOVING THE EXISTING MAILBOX SUPPORTS AND FURNISHING AND ERECTING NEW MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING THE SALVAGED MAILBOX OR OTHERWISE ESTABLISHED BY THE ENGINEER.

THE MAILBOXES ARE AT THE FOLLOWING LOCATIONS:

STA. 82+68, LT.	STA. 83+35, RT.
STA. 84+07, LT.	STA. 85+37, LT.
STA. 85+94, LT.	STA. 87+31, LT.
STA. 88+32, LT.	STA. 88+56, RT.
STA. 89+09, LT.	STA. 89+27, RT.
STA. 89+52, LT.	STA. 90+01, RT.
STA. 90+81, RT.	STA. 91+05, LT.
STA. 91+51, LT.	STA. 99+42, RT.

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

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

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

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

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

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

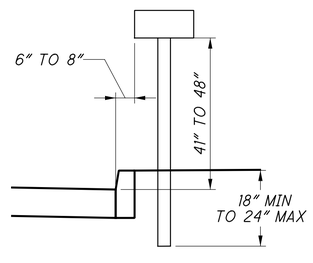
THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

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

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS, TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX REMOVAL AND RESET, INCLUDING THE NEW SUPPORTS, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX REMOVED AND RESET. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

SPECIAL, MAILBOX REMOVED AND RESET	16 EACH



MAILBOX SUPPORT DETAIL

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

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

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

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

ITEM 611 - INSPECTION WELL, AS PER PLAN

ANY EXISTING SANITARY CLEAN OUTS OR INSPECTION WELLS ENCOUNTERED WITHIN THE PROJECT LIMITS THAT ARE REQUIRED TO BE MAINTAINED SHALL BE ADJUSTED TO GRADE. ALL LABOR, MATERIALS, AND INCIDENTAL ITEMS REQUIRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THIS ITEM INCLUDING ANY REQUIRED TRAFFIC BEARING COVERS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK:

611, INSPECTION WELL, AS PER PLAN	4 EACH

MANHOLE COVER REPLACEMENT

ALL COVER CASTINGS FOR THE SANITARY SEWER MANHOLES OR STORM SEWER MANHOLES THAT ARE TO BE ADJUSTED TO GRADE OR RECONSTRUCTED TO GRADE SHALL BE SOLID, HEAVY DUTY, AND SUITABLE FOR H-20 HIGHWAY TRAFFIC LOADS WHEN WITHIN THE PAVEMENT AREA. ANY EXISTING COVERS THAT ARE FOUND TO BE UNSUITABLE SHALL BE REPLACED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR REPLACING ANY UNSUITABLE MANHOLE CASTINGS:

611, MANHOLE FRAME AND COVER, AS PER PLAN (FOR DRAINAGE)	3 EACH
611, MANHOLE FRAME AND COVER, AS PER PLAN (FOR SANITARY)	2 EACH

ITEM SPECIAL - MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. FURNISH MATERIALS PER 611 WITH PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL	3,000 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

LIMIT DISTURBANCE OF THE VEGETATED FILTER STRIP TO THOSE AREAS THAT MUST BE GRADED TO MEET THE PROPOSED CONDITIONS OF THIS PLAN SET. EXISTING GRASS AREAS THAT ARE NOT DISTURBED MUST ACHIEVE AT LEAST 70% GRASS COVERAGE. THE FOLLOWING ITEM HAS BEEN CARRIED TO THE GENERAL SUMMARY TO USE ON EXISTING GRASS AREAS NOT MEETING THE MINIMUM VEGATIVE COVERAGE:

659, REPAIR SEEDING AND MULCHING	2,597 SY

UTILITY PIPE REPLACEMENT

ESTIMATED QUANTITIES ARE PROVIDED FOR PIPE TO BE REPLACED, AS DIRECTED BY THE ENGINEER, WHEN EXISTING STORM AND SANITARY PIPES ARE FOUND TO BE DAMAGED AND THE DAMAGE IS NOT A RESULT OF CONTRACTOR ACTIVITIES. REPLACEMENT OF PIPES DAMAGED DURING CONSTRUCTION DUE TO CONTRACTOR ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ESTIMATED QUANTITIES OF 6" CONDUIT ARE PROVIDED IF EXISTING HOUSE CONNECTIONS TO STORM SEWER ARE ENCOUNTERED DURING CONSTRUCTION TO CONNECT TO THE NEW STORM SYSTEM.

THE FOLLOWING QUANTITIES ARE CARRIED TO GENERAL SUMMARY:

611, 6" CONDUIT, TYPE B	100 FT
611, 12" CONDUIT, TYPE B	100 FT
611, 15" CONDUIT, TYPE B	150 FT

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

301, ASPHALT CONCRETE BASE, PG64-22, (449)	86 CY

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 6 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM 611 - CATCH BASIN, NO. 6, AS PER PLAN

THE CONTRACTOR SHALL PERFORM ALL WORK AS DEFINED IN THE CMS AND SHOWN ON ODOT SCD CB-6 EXCEPT THAT THE INTERIOR WIDTH OF THE STRUCTURE ON SECTION B-B SHALL BE 36".

SANITARY SEWER MANHOLE REPLACEMENT

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN PERFORMING THE PAVEMENT RECONSTRUCTION AND CURB PLACEMENT IN THE VICINITY OF THE EXISTING MANHOLES AT STA. 85+15, 25.9' LT; STA. 91+83, 25.2' LT; AND STA. 101+45, 25.5' LT. THESE ITEMS SHALL BE USED FOR REALIGNMENT OF THE EXISTING SANITARY MANHOLES AND SEWER WHEN ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN DESCRIBED ON SHEET 13 IS NOT POSSIBLE. THE MANHOLE CASTINGS SHALL BE HEAVY DUTY, SUITABLE FOR H-20 HIGHWAY TRAFFIC LOADINGS; NO FROST UPLIFT WILL BE PERMITTED. SANITARY SERVICES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

611, 8" CONDUIT, TYPE B	60 FT
611, MANHOLE, NO. 3	3 EACH

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	426 CY
659, REPAIR SEEDING AND MULCHING	192 SY
659, INTER-SEEDING	192 SY
659, COMMERCIAL FERTILIZER	0.52 TON
659, LIME	0.79 ACRES
659, WATER	21 MGAL

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

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

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND THE LANE AND SHOULDER CONFIGURATION OF THE ROADWAY THAT PASSES BELOW THE BRIDGE. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP SITE:

https://ftp.dot.state.oh.us/pub/Contracts/Attach/CUY-106239

CALCULATED KAH CHECKED RAK

GENERAL NOTES

CUY-77-4.79

ITEM 611 - DRAINAGE STRUCTURE, MISC.: CATCH BASIN LINING

THE EXISTING CATCH BASIN AT STA. 94+66.12, RT SHALL BE LINED ON ALL SIDES AND THE BOTTOM WITH 1/8" PLATES MADE OF ALUMINUM, STAINLESS STEEL, OR HOT-DIPPED GALVANIZED STEEL. THE PLATES SHALL BE SECURELY FASTENED TO THE CATCH BASIN. THE PLATES SHALL NOT COVER ANY PIPE INLETS.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM BID FOR THIS ITEM. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

611, DRAINAGE STRUCTURE MISC.: LS
CATCH BASIN LINING

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN

FOR EXISTING SANITARY MANHOLES ADJACENT TO OR WITHIN THE PROPOSED CURB AND GUTTER AREA (STA. 85+15, 25.9' LT; STA. 91+83, 25.2' LT; AND STA. 101+45, 25.5' LT) THAT INTERFERE WITH CONSTRUCTION OF THE CURB AND GUTTER, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING MANHOLE STRUCTURE IN ORDER TO INSTALL AN ECCENTRIC CONE TOP, PER SCD MH-3, TO ENSURE THAT THE MANHOLE DOES NOT INTERFERE WITH CONSTRUCTION OF THE CURB AND GUTTER. THE CONTRACTOR SHALL APPLY A WATERTIGHT SEAL TO THE LID.

PAYMENT SHALL BE MADE AT THE UNIT PRICE PER EACH AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED INCLUDING THE ECCENTRIC CONE TOP.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL CONSIST OF A BLEND OF 60% MIN. AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.15, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

-ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
-BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
-FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
-PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
-ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

ITEM 202 - REMOVAL MISC.: CONCRETE FOUNDATIONS

THE EXISTING CONCRETE FOUNDATIONS AT STA. 93+21, 20' RT AND STA. 99+04, 20.3' RT SHALL BE REMOVED AND DISPOSED OF. COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

202, REMOVAL MISC.: CONCRETE FOUNDATIONS 2 EACH

ITEM 202 - REMOVAL MISC.: STONES, POSTS, LANDSCAPING, AND WALLS

THE EXISTING STONES, POSTS, LANDSCAPING, AND WALLS MARKED SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER.

INCLUDED IN THE LUMP SUM COST OF THIS ITEM ARE THE FOLLOWING QUANTITIES AND LOCATIONS FOR INFORMATION ONLY:

STONES 11 EACH
STA. 82+69, 22' LT; STA. 83+33, 18' RT;
STA. 85+41, 30' LT; STA. 85+65, 35' LT;
STA. 86+55, 31' RT TO STA. 86+66, 21' RT;
STA. 91+32, 29' RT

POSTS 1 EACH
STA. 82+81, 46' RT

LANDSCAPING 1 EACH
STA. 85+41, 20' LT

WALLS 1 EACH
STA. 82+67, 38' RT

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

202, REMOVAL MISC.: STONES, POSTS, LANDSCAPING, AND WALLS LS

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 100 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
http://ceaaa.faa.gov

OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
Ohio.airport.protection@dot.ohio.gov

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM SPECIAL - GAS VALVE BOX ADJUSTED TO GRADE

IN ADDITION TO THE REQUIREMENTS OF CMS 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE OF THE CASTING) AND ADJUST THE CASTING TO GRADE (ACCORDING TO THE TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN PLACED.

CMS 499 CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

SPECIAL, GAS VALVE BOX ADJUSTED TO GRADE 13 EACH

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

THE CONTRACTOR SHALL DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. AFTER CLEARING LIMITS ARE MARKED IN THE FIELD, SET UP A FIELD MEETING WITH THE ENGINEER FIVE (5) DAYS PRIOR TO ANY CLEARING ACTIVITY TO APPROVE THE LIMITS.

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

A TYPE B FIELD OFFICE IS REQUIRED FOR THIS PROJECT. THE FOLLOWING REVISIONS TO EQUIPMENT SUPPLIED WITH THE TYPE B FIELD OFFICE, AS SPECIFIED IN TABLE 619.02-1, FIELD OFFICE, SHALL APPLY:

-THE BROADBAND INTERNET CONNECTION MUST MEET A MINIMUM UPLOAD SPEED OF 5MB PER SECOND.
-CONTRACTOR SHALL FURNISH AND SET UP A WI-FI ROUTER MEETING THE REQUIREMENTS OF IEEE 802.11AC FOR THE EXCLUSIVE USE OF THE DEPARTMENT.

ALL OTHER FIELD OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF A TYPE B, FIELD OFFICE.

ITEM 619 - FIELD OFFICE, TYPE B, AS PER PLAN 18 MONTHS

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRETE BARRIER, SINGLE SLOPE, TYPE D WITH A 9" FOOTER AND 6" OF ITEM 304 - AGGREGATE BASE.

FOR DETAIL SEE SHEET 127.

ALL LABOR, MATERIALS, EQUIPMENT, EXCAVATION AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS SHALL BE INCLUDED FOR PAYMENT UNDER THE PER FOOT PRICE FOR ITEM 622, CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN.

CALCULATED KAH CHECKED RAK

GENERAL NOTES

CUY-77-4.79

ITEM SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE

DESCRIPTION. THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING PAVEMENT OVERLAY FABRIC COMPOSITE AS SHOWN ON THE PLANS AND AT LOCATIONS DESIGNATED BY THE ENGINEER.

MATERIALS. PAVEMENT OVERLAY FABRIC COMPOSITE SHALL BE GLASGRID CG100 COMPOSITE ASPHALT REINFORCEMENT SOLUTION, TENCATE MIRAFI MPG100 (PGM-G100/100), OR APPROVED EQUAL. COMPOSITE SHALL BE CONSTRUCTED OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85 PERCENT OF POLYOLEPHINES, POLYESTERS, AND POLYAMIDES BY WEIGHT, SHALL BE RESISTANT TO CHEMICAL ATTACK, MILDEW, ROT, AND ATTACHED TO A FIBERGLASS GRID. MATERIALS SHALL BE SUBMITTED TO THE ENGINEER A MINIMUM OF SEVEN (7) DAYS PRIOR TO INSTALLATION.

THE COMPOSITE FABRIC SHALL NOT BE EXPOSED TO ULTRAVIOLET RADIATION FOR MORE THAN 7 DAYS. THE FABRIC WIDTH SHALL BE INDICATED ON THE TYPICAL SECTION AND FURNISHED IN ROLLS.

THE ASPHALT SEALANT SHALL BE PG64-22 MEETING THE REQUIREMENTS OF 702.01.

CERTIFICATION SHALL BE FURNISHED IN ACCORDANCE WITH 106.01 BEFORE THE FABRIC IS PLACED. THE ENGINEER MAY REQUIRE SAMPLING FOR TESTING PURPOSES AS DIRECTED BY THE LABORATORY.

EQUIPMENT. THE CONTRACTOR SHALL PROVIDE EQUIPMENT FOR HEATING AND APPLYING BITUMINOUS MATERIAL. HEATING EQUIPMENT AND DISTRIBUTORS SHALL MEET THE REQUIREMENTS OF 407.

THE MECHANICAL LAYDOWN EQUIPMENT SHALL BE MOUNTED ON A FOUR-WHEELED VEHICLE THAT IS CAPABLE OF DRIVING OVER THE FABRIC WHILE IT IS BEING INSTALLED TO CONTROL THE TENSION ON THE MATERIAL. THE LAYDOWN MACHINE SHALL BE EQUIPPED WITH CLUTCHES TO ADJUST THE ROLL TENSION AND BROOMS TO SMOOTH OUT WRINKLES DURING INSTALLATION. MANUAL LAYDOWN MAY ONLY BE USED IN AREAS INACCESSIBLE TO THE LAYDOWN MACHINE.

CONSTRUCTION DETAILS

1. SURFACE PREPARATION. THE CRACKS AND ENTIRE ROAD SURFACE TO BE TREATED, AND AT LEAST ONE ADDITION FOOT ON EACH SIDE, SHALL BE CLEANED BY SWEEPING, BLOWING, OR OTHER METHODS UNTIL ALL DUST, MUD, CLAY LUMPS, VEGETATION, AND FOREIGN MATERIAL ARE REMOVED ENTIRELY FROM THE PAVEMENT BEFORE THE BITUMINOUS MATERIAL IS APPLIED. CARE SHALL BE EXERCISED TO PREVENT MATERIAL SO REMOVED FROM BECOMING MIXED WITH THE NEW SURFACE. LARGE CRACKS AND POTHOLES SHOULD BE FILLED.

2. APPLICATION OF ASPHALT SEALANT. THE APPLICATION OF THE ASPHALT SEALANT SHALL CONFORM TO THE APPLICABLE PORTIONS OF 407. THE ASPHALT SEALANT SHALL BE UNIFORMLY SPRAYED OVER THE AREA TO BE COVERED BY FABRIC AT A RATE OF 0.25 TO 0.30 GALLON PER SQUARE YARD.

THE QUANTITY APPLIED WILL VARY WITH THE SURFACE CONDITION OF THE EXISTING PAVEMENT (DEGREE OF POROSITY, FOR EXAMPLE). THE FABRIC ALONE, UNDER HEAT OF THE OVERLAY, WILL ABSORB AT LEAST 0.20 GALLON PER SQUARE YARD. WITHIN INTERSECTIONS OR OTHER ZONES WHERE VEHICLE BRAKING IS COMMON PLACE, THE APPLICATION SHALL BE REDUCED 20 PERCENT. THE SEALANT SHALL BE APPLIED TO AN AREA TWO TO SIX INCHES WIDER THAN THE WIDTHS OF THE FABRIC BEING PLACED, BUT RESTRICTED TO THE AREA OF IMMEDIATE FABRIC LAYDOWN. APPLICATION SHALL BE BY DISTRIBUTOR WITH HAND SPRAYING ALLOWED ONLY WHERE THE DISTRIBUTOR CANNOT BE USED. ASPHALT SPILLS SHALL BE CLEANED FROM THE ROAD SURFACE TO AVOID FLUSHING AND POSSIBLE MOVEMENT AT THESE ASPHALT RICH AREAS.

THE ASPHALT CEMENT USED AS A SEALANT SHALL HAVE DISTRIBUTOR TANK TEMPERATURE BETWEEN 300 DEGREES AND 350 DEGREES F. APPLICATION TEMPERATURE IS NOT CRITICAL AFTER THE ASPHALT IS SPRAYED ON THE PAVEMENT. IF THE FABRIC IS TO BE OVER-SPRAYED, DISTRIBUTOR TANK TEMPERATURES SHOULD NOT EXCEED 350 DEGREES F TO AVOID DAMAGE TO THE FABRIC.

ITEM SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE (CONT.)

3. COMPOSITE FABRIC PLACEMENT. THE COMPOSITE FABRIC SHALL BE PLACED ON THE ASPHALT SEALANT AS SOON AS PRACTICAL AND BEFORE THE TACKINESS OF THE SEALANT IS LOST. THE COMPOSITE SHALL BE PLACED AS SMOOTHLY AS POSSIBLE TO AVOID WRINKLES. IT SHALL BE UNROLLED SO THAT THE SOFT SIDE IS UNWOUND INTO THE SEALANT AND THE GRID SIDE UP, THUS PROVIDING OPTIMUM BOND BETWEEN FABRIC AND PAVEMENT DURING THE CONSTRUCTION PROCESS. WRINKLES SEVERE ENOUGH TO CAUSE FOLDS SHALL BE SLIT AND LAID FLAT. SMALL WRINKLES, WHICH FLATTEN UNDER COMPACTION ARE NOT DETRIMENTAL TO PERFORMANCE. THE COMPOSITE SHALL BE BROOMED OR SQUEEGEED TO REMOVE AIR BUBBLES AND MAKE COMPLETE CONTACT WITH THE ROAD SURFACE AS RECOMMENDED BY THE FABRIC MANUFACTURER. THE FABRIC SHALL BE LAID STRAIGHT, WITHIN THE SEALANT AREA. MODERATE CURVES CAN BE NEGOTIATED BY STRETCHING THE FABRIC ON THE OUTSIDE OF THE CURVE BY ADJUSTING THE DRAG ON THE BRAKES OF THE LAYDOWN EQUIPMENT. TRANSVERSE JOINTS SHALL BE SHINGLED IN THE DIRECTION OF PAVING.

LONGITUDINAL JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC ONE TO TWO INCHES. TRANSVERSE JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC MINIMUM OF FOUR INCHES. ADDITIONAL SEALANT (ABOUT 0.20 GAL. PER SQ. YD.) SHALL BE ADDED TO THE JOINTS AS REQUIRED. THE ADDITIONAL SEALANT FOR TRANSVERSE JOINTS MAY BE APPLIED BY HAND SPRAYING OR WITH MOP AND BUCKET IF EXTREME CARE IS TAKEN TO NOT EXCEED THE SPECIFIED RATE.

TO ENHANCE THE BOND OF THE FABRIC WITH THE EXISTING PAVEMENT AND TO SMOOTH OUT ANY WRINKLES FOR FOLDS IN THE FABRIC, THE CONTRACTOR MAY BE REQUIRED TO PNEUMATICALLY ROLL THE FABRIC AFTER IT IS PLACED.

4. TREATMENT OF THE APPLIED COMPOSITE PRIOR TO THE ASPHALT CONCRETE. IT IS UNNECESSARY TO TACK COAT THE FABRIC PRIOR TO PLACEMENT OF THE OVERLAY UNLESS THERE ARE CIRCUMSTANCES SUCH AS DELAY OF OVERLAY, DUST ACCUMULATION OR UNDER APPLICATION OF SEALANT WHICH WOULD MAKE TACK COATING DESIRABLE. IF A TACK COAT IS REQUIRED, EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF 0.02 TO 0.05 GALLON PER SQUARE YARD RESIDUAL ASPHALT. PLACEMENT OF THE ASPHALT CONCRETE OVERLAY SHALL CLOSELY FOLLOW FABRIC LAYDOWN. IN THE EVENT THAT THE SEALANT BLEEDS THROUGH THE FABRIC BEFORE THE ASPHALT CONCRETE IS PLACED, IT MAY BE NECESSARY TO BLOT THE SEALANT BY SPREADING SAND OR ASPHALT CONCRETE OVER THE AFFECTED AREAS. THIS WILL PREVENT ANY TENDENCY FOR CONSTRUCTION EQUIPMENT TO PICK UP THE FABRIC WHEN DRIVING OVER IT.

TURNING OF THE PAVER AND OTHER VEHICLES SHALL BE GRADUAL TO AVOID MOVEMENT OR DAMAGE TO THE COMPOSITE. UNESSENTIAL TRAFFIC ON COMPOSITE SHOULD BE ELIMINATED. IF IT IS NECESSARY TO OPEN THE ROAD TO TRAFFIC AFTER FABRIC PLACEMENT, BUT PRIOR TO PAVING, IT IS ADVISABLE TO SPREAD A SMALL AMOUNT OF SAND OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE COMPOSITE. THIS PRACTICE IS TO BE AVOIDED IF POSSIBLE TO PREVENT DAMAGE TO THE MEMBRANE. QUICK STOPS AND SHARP TURNS MAY DAMAGE THE MATERIAL. IF RAIN PRIOR TO THE OVERLAY SHOULD CAUSE A BLISTERED APPEARANCE AND SOME BOND LOSS THROUGHOUT THE MEMBRANE, IT SHOULD BE CORRECTED BY PNEUMATIC ROLLING UNTIL ADHESION IS RESTORED.

5. ASPHALT CONCRETE. THE ASPHALT CONCRETE OVERLAY SHALL CONFORM TO 401 SPECIFICATION WITH A MINIMUM THICKNESS OF 1.5.

METHOD OF MEASUREMENT. THE ACCEPTED FABRIC COMPOSITE PLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS DIRECTED WILL BE MEASURED BY THE SQUARE YARD OF ROADWAY, RAMPS, AND TURNOUTS COVERED BY THE COMPOSITE FABRIC. LAPS IN COMPOSITE FABRIC WILL NOT BE MEASURED.

BLOTTING THE SEALANT, SPREADING SAND OR ASPHALT CONCRETE OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE FABRIC, ROLLING TO RESTORE BOND, OR APPLICATION OF A TACK COAT WILL NOT BE MEASURED FOR DIRECT PAYMENT BUT SHALL BE CONSIDERED A NECESSARY PART OF THE CONSTRUCTION INVOLVED AND THE COST THEREFORE SHALL BE INCLUDED IN OTHER APPROPRIATE CONTRACT UNIT PRICES.

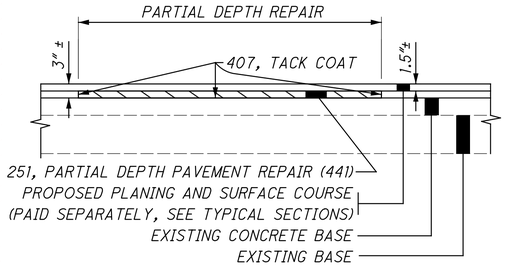
ITEM SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE (CONT.)

BASIS OF PAYMENT. THE ACCEPTED QUANTITIES OF PAVEMENT OVERLAY FABRIC COMPOSITE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS (INCLUDING ASPHALT SEALANT AND OVERLAP), TOOLS, EQUIPMENT AND INCIDENTALS FOR DOING ALL THE WORK INVOLVED IN FURNISHING AND PLACING THE COMPOSITE COMPLETE IN PLACE AS SHOWN ON THE PLANS OR AS DIRECTED.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 AND ITEM 407 TACK COAT, 702.13, AS DIRECTED BY THE ENGINEER. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

251, PARTIAL DEPTH PAVEMENT REPAIR (441) 66 SY

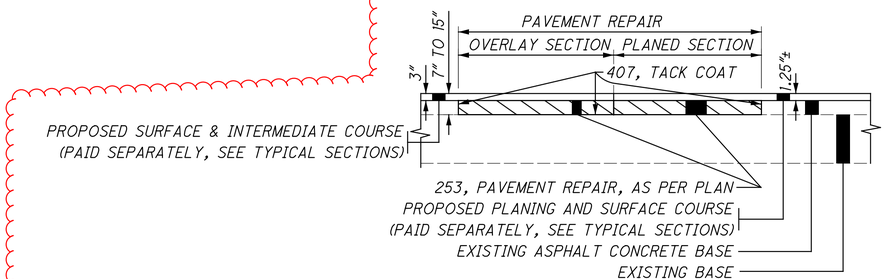


LOCATIONS OF EXISTING CONCRETE BASE

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 301 ASPHALT CONCRETE BASE, PG64-22 AND ITEM 407 TACK COAT, AS DIRECTED BY THE ENGINEER. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF PAVEMENT PLANING OR BEFORE THE PLACEMENT OF INTERMEDIATE COURSE ON THE OVERLAY SECTION OF WALLINGS ROAD. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

253, PAVEMENT REPAIR, AS PER PLAN 225 SY



LOCATIONS OF EXISTING ASPHALT CONCRETE BASE

CALCULATED KAH CHECKED RAK

GENERAL NOTES

CUY-77-4.79

SEEDING	
END WIDTH	SQ. YDS.

FOR LEGEND, SEE SHEET 50.

ALL TEMPORARY PAVEMENT SHOWN SHALL BE CONSTRUCTED IN PHASE 2.

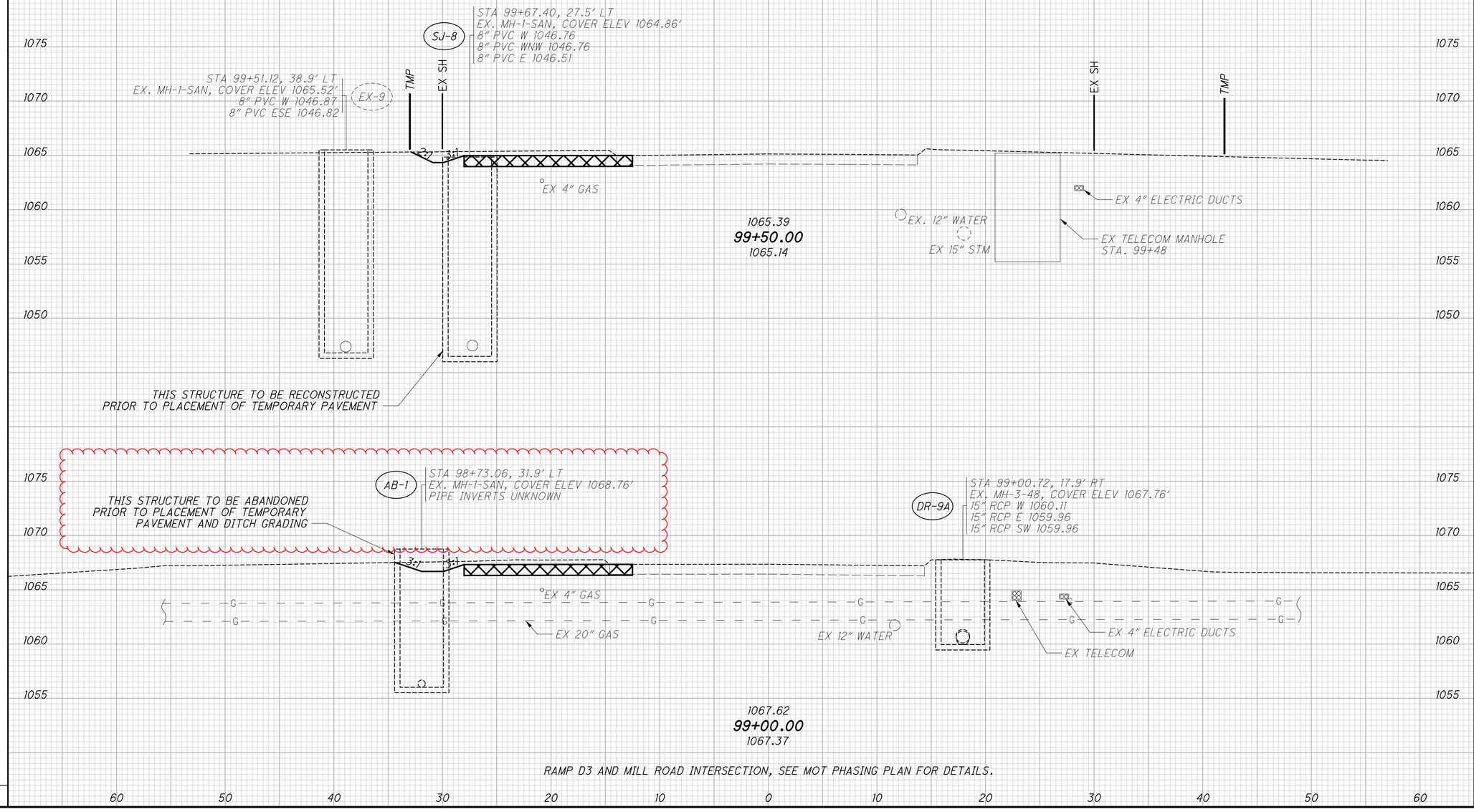
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED KAH

CHECKED RAK

MAINTENANCE OF TRAFFIC CROSS SECTIONS
WALLINGS RD PHASE 3 - STA. 99+00.00 TO STA. 99+50.00

CUY-77-4.79



RAMP D3 AND MILL ROAD INTERSECTION, SEE MOT PHASING PLAN FOR DETAILS.

SHEET NUM.																PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	12	13	63	64	67	68	69	93	97	101	107	122	168	RW PLANS		01/SAF/04						
																					ROADWAY	
																LS	201	11000	LS		CLEARING AND GRUBBING	11
4,188											474					4,662	202	23000	4,662	SY	PAVEMENT REMOVED	
			1,006													1,006	202	30000	1,006	SF	WALK REMOVED	
			154													154	202	30700	154	FT	CONCRETE BARRIER REMOVED	
			1,683													1,683	202	32000	1,683	FT	CURB REMOVED	
				853		331						150				1,334	202	35100	1,334	FT	PIPE REMOVED, 24" AND UNDER	
			100													100	202	38000	100	FT	GUARDRAIL REMOVED	
				4												4	202	58000	4	EACH	MANHOLE REMOVED	
				12												12	202	58100	12	EACH	CATCH BASIN REMOVED	
				1												1	202	58700	1	EACH	MANHOLE ABANDONED	
			406													406	202	75000	406	FT	FENCE REMOVED	
						2										2	202	75600	2	EACH	METER VAULT REMOVED	
						2										2	202	75610	2	EACH	VALVE BOX REMOVED	
		LS														LS	202	98000	LS		REMOVAL MISC.: STONES, POSTS, LANDSCAPING, AND WALLS	13
						2										2	202	98100	2	EACH	REMOVAL MISC.: GATE VALVE REMOVED AND DISPOSED OF	122
		2														2	202	98100	2	EACH	REMOVAL MISC.: CONCRETE FOUNDATIONS	13
								2,287	318	232						2,837	203	10000	2,837	CY	EXCAVATION	
								402		137						539	203	20000	539	CY	EMBANKMENT	
8,497											813					9,310	204	10000	9,310	SY	SUBGRADE COMPACTION	
								628	335	184						1,147	204	13000	1,147	CY	EXCAVATION OF SUBGRADE	
								628	335	212						1,175	204	30010	1,175	CY	GRANULAR MATERIAL, TYPE B	
4																4	204	45000	4	HOUR	PROOF ROLLING	
								621	1,007	637						2,265	204	50000	2,265	SY	GEOTEXTILE FABRIC	
			75													75	606	15050	75	FT	GUARDRAIL, TYPE MGS	
			2													2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			318													318	607	23000	318	FT	FENCE, TYPE CLT	
			7,411													7,411	608	10000	7,411	SF	4" CONCRETE WALK	
			431													431	608	52000	431	SF	CURB RAMP	
		13														13	SPECIAL	61199700	13	EACH	GAS VALVE BOX ADJUSTED TO GRADE	13
			98													98	622	10161	98	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	13
			2													2	622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
			2													2	622	25050	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
														24		24	623	40521	24	EACH	RIGHT-OF-WAY MONUMENT, TYPE B, AS PER PLAN	11
	16															16	SPECIAL	69050350	16	EACH	MAILBOX REMOVED AND RESET	12
																					EROSION CONTROL	
													246			246	601	20000	246	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
	2															2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	426															426	659	00300	426	CY	TOPSOIL	
								2,336	149	1,352						3,837	659	10000	3,837	SY	SEEDING AND MULCHING	
	2,789															2,789	659	14000	2,789	SY	REPAIR SEEDING AND MULCHING	
	192															192	659	15000	192	SY	INTER-SEEDING	
	0.52															0.52	659	20000	0.52	TON	COMMERCIAL FERTILIZER	
	0.79															0.79	659	31000	0.79	ACRE	LIME	
	21															21	659	35000	21	MGAL	WATER	
							LS									LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
							LS									LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
							LS									LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
39,000																39,000	832	30000	39,000	EACH	EROSION CONTROL	
																					DRAINAGE	
					307											307	605	12210	307	FT	6" DEEP PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
					429											429	605	13410	429	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
					3,716											3,716	605	14020	3,716	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	

CALCULATED KAH
CHECKED RAK

GENERAL SUMMARY

CUY-77-4.79

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
OFFICE CALCS	12	13	14	63	66	67	68	107	119	122	127		01/SAF/04		EXT	TOTAL			SHEET NO.
																		DRAINAGE (CONT.)	
						160							160	611	00510	160	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	100												100	611	00900	100	FT	6" CONDUIT, TYPE B	
	100				509								609	611	04400	609	FT	12" CONDUIT, TYPE B	
					90								90	611	04400	90	FT	12" CONDUIT, TYPE B, 706.02	
					10								10	611	04600	10	FT	12" CONDUIT, TYPE C, 706.02	
	150				204								354	611	05900	354	FT	15" CONDUIT, TYPE B	
					60								60	611	05900	60	FT	15" CONDUIT, TYPE B, 706.02	
					30								30	611	05900	30	FT	15" CONDUIT, TYPE B, 706.08	
					85								85	611	06700	85	FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	
					1								1	611	98150	1	EACH	CATCH BASIN, NO. 3	
					13								13	611	98180	13	EACH	CATCH BASIN, NO. 3A	
					1								1	611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	12
					3								3	611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	
					10								10	611	99574	10	EACH	MANHOLE, NO. 3	
	3												3	611	99651	3	EACH	MANHOLE FRAME AND COVER, AS PER PLAN	12
	3,000												3,000	SPECIAL	61199820	3,000	LB	MISCELLANEOUS METAL	12
		LS											LS	611	99920	LS		DRAINAGE STRUCTURE, MISC.: CATCH BASIN LINING	13
																		PAVEMENT	
			66										66	251	01000	66	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	14
			225										225	253	01001	225	SY	PAVEMENT REPAIR, AS PER PLAN	14
1,607													1,607	254	01000	1,607	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
1,321													1,321	254	01000	1,321	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
1,222	86												1,308	301	56000	1,308	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
								14					14	301	56100	14	CY	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS), 3.5"	
1,497								78					1,575	304	20000	1,575	CY	AGGREGATE BASE	
1,454								7					1,461	407	20000	1,461	GAL	NON-TRACKING TACK COAT	
471													471	441	10101	471	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M, 1.25" OR 1.5"	13
497													497	441	10200	497	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), 1.75"	
								5					5	441	70500	5	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS), PG64-22, 1.25"	
								3					3	441	70700	3	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS), PG64-22, 1.75"	
								485					485	452	10050	485	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS OR QC1 WITH ACCELERATOR	
								167					167	452	12050	167	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS OR QC1 WITH ACCELERATOR	
				2,896									2,896	609	12000	2,896	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				36									36	609	24510	36	FT	CURB, TYPE 4-C	
				963				114					1,077	609	26000	1,077	FT	CURB, TYPE 6	
128													128	SPECIAL	69012060	128	SY	PAVEMENT OVERLAY FABRIC COMPOSITE	14
											10		10	SPECIAL	69098300	10	SY	FULL DEPTH SHOULDER PAVEMENT REPLACEMENT	127
																		WATER WORK	
							28						28	638	00600	28	FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
							45						45	638	01200	45	FT	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
							178			150			328	638	02400	328	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
										268			268	638	04900	268	FT	1" COPPER SERVICE BRANCH	
							251						251	638	06200	251	FT	POLYETHYLENE ENCASEMENT	
							2						2	638	07800	2	EACH	6" GATE VALVE AND VALVE BOX	
							2						2	638	07900	2	EACH	8" GATE VALVE AND VALVE BOX	
							4			2			6	638	08100	6	EACH	12" GATE VALVE AND VALVE BOX	
							2						2	638	10200	2	EACH	6" FIRE HYDRANT	
							2						2	638	10700	2	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF	
							3						3	638	10800	3	EACH	VALVE BOX ADJUSTED TO GRADE	
							3						3	638	10900	3	EACH	SERVICE BOX ADJUSTED TO GRADE	
							2						2	SPECIAL	63821002	2	EACH	INSTALL 1" METER SETTING, COMPLETE, CLEVELAND	121
										3			3	638	98000	3	EACH	WATER WORK, MISC.: 1" SERVICE VALVE & VALVE BOX, COMPLETE	122
									15				15	638	98000	15	EACH	WATER WORK, MISC.: POT-HOLING EXISTING WATER MAIN	119
									LS				LS	638	98100	LS		WATER WORK, MISC.: MAINTENANCE OF WATER SERVICE	119
									400				400	638	98600	400	FT	WATER WORK, MISC.: FROSTPROOFING FOR 8" WATER MAIN	119
										150			150	SPECIAL	69099400	150	LB	ADDITIONAL DUCTILE IRON FITTINGS	122

CALCULATED KAH
CHECKED RAK

GENERAL SUMMARY

CUY-77-4.79

58
217

P:\3000_3499\3023T0010_CUY-CR57-4.43_(Wallings_Road)\ODOT\106239_CUY-77-4.79\Design\Roadway\Sheets\106239_GG002.dgn 9/12/2024 9:00:46 AM khillegass

SHEET NUM.															PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	12	66				132	133	135	148	149					01/SAF/04		EXT	TOTAL			
																				SANITARY SEWER	
	60														60	611	01800	60	FT	8" CONDUIT, TYPE B	
	3														3	611	99574	3	EACH	MANHOLE, NO. 3	
	2														2	611	99651	2	EACH	MANHOLE FRAME AND COVER, AS PER PLAN	12
		6													6	611	99654	6	EACH	~~MANHOLE ADJUSTED TO GRADE~~	
		3													3	611	99661	3	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	13
	4														4	611	99721	4	EACH	INSPECTION WELL, AS PER PLAN	12
																				LIGHTING	
										6					6	625	00450	6	EACH	CONNECTION, FUSED PULL APART	
										9					9	625	00480	9	EACH	CONNECTION, UNFUSED PERMANENT	
										3					3	625	02600	3	EACH	TRANSFORMER BASE, TYPE AT-C	
										3					3	625	14000	3	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
										486					486	625	23200	486	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
										467					467	625	24320	467	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
										15					15	625	25402	15	FT	CONDUIT, 2", 725.05	
										452					452	625	29002	452	FT	TRENCH, 24" DEEP	
										1					1	625	30700	1	EACH	PULL BOX, 725.08, 18"	
										3					3	625	32000	3	EACH	GROUND ROD	
									1						1	625	33001	1	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN	148
										1					1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	148
										3					3	625	35011	3	EACH	REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN	148
										452					452	625	36010	452	FT	UNDERGROUND WARNING/MARKING TAPE	
									LS						LS	SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	148
										4					4	625	75800	4	EACH	DISCONNECT CIRCUIT	
																				TRAFFIC CONTROL	
						42									42	621	00100	42	EACH	RPM	
								2							2	625	32000	2	EACH	GROUND ROD	
								195							195	630	02100	195	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
								257.9							257.9	630	03100	257.9	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
								55							55	630	06400	55	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
								71							71	630	07600	71	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
								30							30	630	08100	30	FT	ONE WAY SUPPORT, NO. 4 POST	
								25							25	630	08520	25	FT	STREET NAME SIGN SUPPORT, NO. 3 POST	
								7							7	630	08600	7	EACH	SIGN POST REFLECTOR	
								8							8	630	09000	8	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
								2							2	630	76520	2	EACH	SPAN WIRE SIGN SUPPORT, TYPE TC-17.11, DESIGN 8	
								2							2	630	79000	2	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
								6							6	630	79100	6	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
								348.95							348.95	630	80100	348.95	SF	SIGN, FLAT SHEET	
								166							166	630	80200	166	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
								8							8	630	84500	8	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
								2							2	630	84520	2	EACH	SPAN WIRE SIGN SUPPORT FOUNDATION	
							49								49	630	84900	49	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							23								23	630	86002	23	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							14								14	630	86102	14	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
							1								1	630	86272	1	EACH	REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL	
							5								5	630	87500	5	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
								155							155	632	30200	155	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
						0.37									0.37	644	00104	0.37	MILE	EDGE LINE, 6"	
						0.04									0.04	644	00204	0.04	MILE	LANE LINE, 6"	
						0.68									0.68	644	00300	0.68	MILE	CENTER LINE	
						1,774									1,774	644	00404	1,774	FT	CHANNELIZING LINE, 12"	

CALCULATED KAH
CHECKED RAK

GENERAL SUMMARY

CUY-77-4.79

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	13	15	16	17	18	21	22						01/SAF/04						
																		STRUCTURE OVER 20 FOOT SPAN	
																		STRUCTURE CUY-077-0479 GENERAL SUMMARY	171
																		MAINTENANCE OF TRAFFIC	
					50								50	301	56000	50	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					50								50	304	20000	50	CY	AGGREGATE BASE	
					200								200	407	20000	200	GAL	NON-TRACKING TACK COAT	
		275											275	410	12000	275	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
					60								60	441	10000	60	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	
					200								200	614	11110	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					2								2	SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL	18
						120							120	614	11630	120	FT	INCREASED BARRIER DELINEATION	
						2							2	614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
							LS						LS	614	12420	LS		DETOUR SIGNING	
				3									3	614	12500	3	EACH	REPLACEMENT SIGN	
				50									50	614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
						22							22	614	13310	22	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
						22							22	614	13350	22	EACH	OBJECT MARKER, ONE WAY	
			15										15	614	18601	15	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	16
						0.04							0.04	614	20010	0.04	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
						1.08							1.08	614	21000	1.08	MILE	WORK ZONE CENTER LINE, CLASS I	
						1.21							1.21	614	22010	1.21	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
						384							384	614	23000	384	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
						728							728	614	23010	728	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
						539							539	614	24000	539	FT	WORK ZONE DOTTED LINE, CLASS I	
						184							184	614	26000	184	FT	WORK ZONE STOP LINE, CLASS I	
						186							186	614	27010	186	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
						18							18	614	30000	18	EACH	WORK ZONE ARROW, CLASS I	
													LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
					1,196								1,196	615	25000	1,196	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
		70											70	616	10000	70	MGAL	WATER	
					30								30	617	10100	30	CY	COMPACTED AGGREGATE	
					1								1	617	25000	1	MGAL	WATER	
						1,100							1,100	622	41100	1,100	FT	PORTABLE BARRIER, UNANCHORED	
					1								1	642	00300	1	MILE	CENTER LINE, TYPE 1	
																		INCIDENTALS	
													LS	108	10000	LS		CPM PROGRESS SCHEDULE (SEE PROPOSAL NOTE)	
				LS									LS	614	11000	LS		MAINTAINING TRAFFIC	
18													18	619	16011	18	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	13
													LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	12
													LS	624	10000	LS		MOBILIZATION	

CALCULATED KAH
CHECKED RAK

GENERAL SUMMARY

CUY-77-4.79

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REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 PIPE REMOVED, 24" AND UNDER FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 MANHOLE ABANDONED EACH
			TO						
DR-1	71	85+34.78			LT.			1	
DR-2	71	85+67.39			LT.			1	
DR-2A	71	85+90.54			RT.			1	
DR-3	71	87+03.62			LT.			1	
PR-1	71	85+34.78		85+67.39	LT.	34			
PR-2	71	85+67.39		85+71.21	LT.	7			
PR-2A	71	85+85.54		85+90.54	RT.	5			
PR-2B	71	85+87.89		85+90.54	RT.	5			
PR-2C	71	85+90.54		85+95.54	RT.	5			
PR-3	71	87+03.62		89+12.30	LT.	209			
DR-4	72	89+03.69			RT.			1	
DR-4A	72	89+12.30			LT.		1		
DR-4B	72	90+83.61			RT.		1		
PR-4	72	88+84.49		89+03.69	RT.	20			
PR-5	72	89+03.69		89+05.14	RT.	7			
PR-6	72	89+03.69		89+24.80	RT.	22			
PR-6A	72	89+11.18		89+12.30	LT.	5			
PR-6B	72	90+78.61		90+83.61	RT.	5			
PR-6C	72	90+83.61		90+88.61	RT.	5			
DR-5	73	93+89.95			RT.			1	
DR-6	73	93+90.01			RT.		1		
DR-7	73	93+90.63			LT.			1	
PR-7	73	92+01.00		92+06.00	RT.	5			
PR-8	73	92+06.00		93+90.01	RT.	184			
PR-9	73	93+89.95		93+90.01	RT.	5			
PR-10	73	93+89.95		93+90.63	LT./RT.	29			
PR-11	73	93+90.01		94+66.12	RT.	96			
AB-1	74	98+73.06			LT.				1
DR-8	74	97+97.06			RT.			1	
DR-9	74	98+19.31			LT.			1	
DR-9A	74	99+00.72			RT.		1		
DR-10	74	29+07.11			LT.			1	
PR-12	74	97+97.06		98+19.31	LT./RT.	38			
PR-13	74	97+97.06		98+02.91	RT.	5			
PR-13A	74	98+95.72		99+00.72	RT.	5			
PR-13B	74	98+98.32		99+00.72	RT.	5			
PR-13C	74	99+00.72		99+05.72	RT.	5			
PR-14	74	29+06.81		29+07.11	LT.	10			
DR-11	75	102+57.90			RT.			1	
PR-15	75	102+25.00		102+57.90	RT.	33			
PR-16	75	102+43.83		102+57.90	RT.	19			
PR-17	75	102+57.90		102+58.58	LT./RT.	43			
PR-18	75	102+57.90		102+84.93	RT.	27			
DR-12	77	28+25.18			LT.			1	
PR-19	77	28+25.00		28+24.82	LT.	15			
TOTALS CARRIED TO GENERAL SUMMARY						853	4	12	1

CALCULATED KAH
CHECKED BLS

DRAINAGE SUBSUMMARY

CUY-77-4.79

DRAINAGE SUBSUMMARY

CALCULATED KAH
CHECKED BLS

CUY-77-4.79

REF NO.	SHEET NO.	STATION TO STATION			SIDE	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C, 706.02 FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE B, 706.02 FT	611 15" CONDUIT, TYPE B, 706.08 FT	611 15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE ADJUSTED TO GRADE (FOR SANITARY) EACH	611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN (FOR SANITARY) EACH
			TO																
DJ-1	70	82+50.88			LT.											1			
DJ-2	70	82+60.38			RT.											1			
D-1	71	85+34.00			LT.									1					
D-2	71	85+68.59			LT.												1		
D-3	71	85+80.00			RT.									1					
D-4	71	87+00.00			LT.									1					
D-4A	71	85+90.54			RT.												1		
P-1	71	85+34.00		85+68.59	LT.	35													
P-2	71	85+68.59		85+71.26	LT.		5												
P-3	71	85+80.00		85+90.54	RT.	12													
P-3A	71	85+85.54		85+90.54	RT.			5											
P-3B	71	85+87.89		85+90.54	RT.		5												
P-3C	71	85+90.54		85+95.54	RT.			5											
P-4	71	87+00.00		89+12.30	LT.	212													
SJ-1	71	83+36.61			LT.													1	
SJ-2	71	84+87.55			LT.													1	
SJ-3	71	85+14.54			LT.														1
D-5	72	89+05.00			LT.									1					
D-6	72	89+04.45			RT.										1				
D-7	72	91+98.50			LT.									1					
D-6A	72	89+12.30			LT.												1		
D-6B	72	90+83.61			RT.												1		
P-5	72	88+84.49		89+04.45	RT.		20												
P-6	72	89+05.00		89+12.30	LT.	9													
P-7	72	89+04.45		89+05.14	RT.					5									
P-8	72	89+04.45		89+24.80	RT.		20												
P-8A	72	89+11.18		89+12.30	LT.					5									
P-8B	72	90+78.61		90+83.61	RT.		5												
P-8C	72	90+83.61		90+88.61	RT.		5												
SJ-4	72	88+57.62			LT.													1	
SJ-5	72	91+82.94			LT.														1
D-8	73	92+06.00			RT.												1		
D-9	73	92+07.50			RT.									1					
D-10	73	93+75.00			RT.									1					
D-11	73	93+87.97			RT.												1		
D-12	73	93+88.00			LT.									1					
D-13	73	93+88.74			RT.												1		
P-9	73	92+01.00		92+06.00	RT.		5												
P-10	73	91+98.50		92+06.00	LT./RT.	43													
P-11	73	92+06.00		92+07.50	RT.	17													
P-12	73	92+06.00		93+87.97	RT.				182										
P-13	73	93+75.00		93+87.97	RT.	17													
P-14	73	93+87.97		93+88.00	LT./RT.	30													
P-15	73	93+87.97		93+88.74	RT.				22										
P-16	73	93+88.74		94+66.12	RT.							85							
SJ-6	73	94+03.48			LT.													1	
SUBTOTAL						375	65	10	204	10		85		8	1	2	7	4	2

DRAINAGE SUBSUMMARY

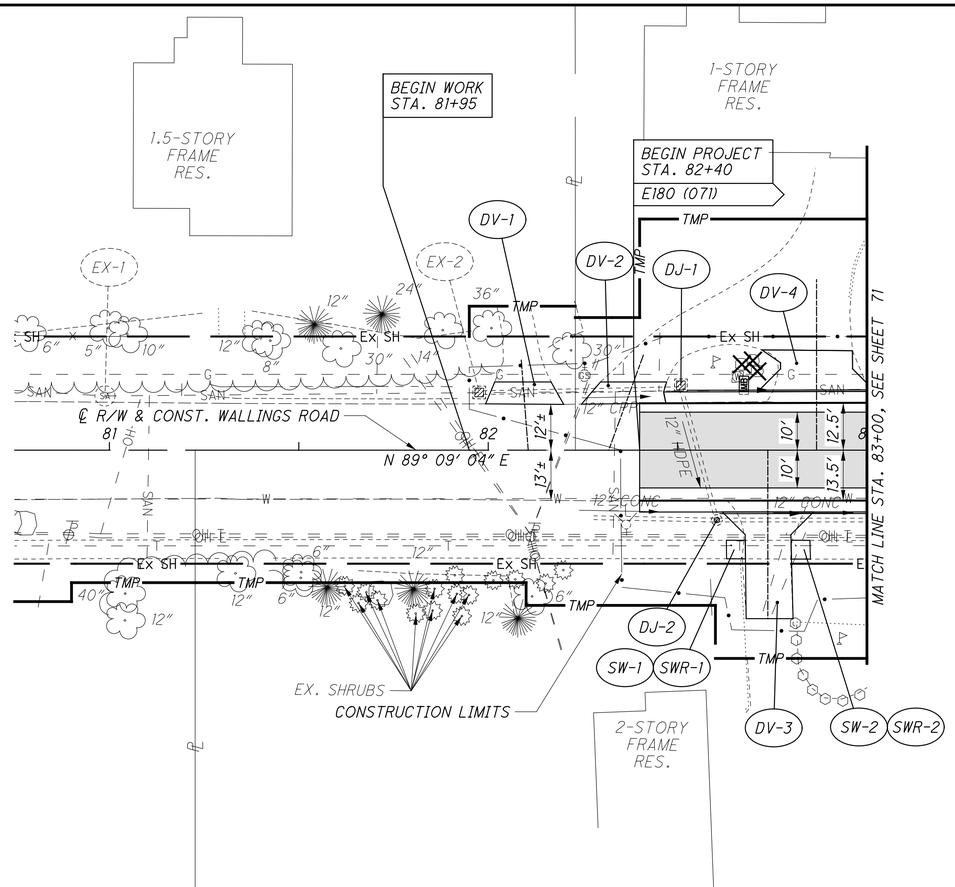
CALCULATED KAH
CHECKED BLS

CUY-77-4.79

REF NO.	SHEET NO.	STATION TO STATION			SIDE	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C, 706.02 FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE B, 706.02 FT	611 15" CONDUIT, TYPE B, 706.08 FT	611 15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE ADJUSTED TO GRADE (FOR SANITARY) EACH	611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN (FOR SANITARY) EACH
			TO																
D-14	74	97+84.00			RT.									1					
D-15	74	97+97.91			RT.												1		
D-16	74	98+04.00			LT.									1					
D-16A	74	99+00.72			RT.												1		
D-17	74	29+07.00			LT.								1						
P-17	74	97+84.00		97+97.91	RT.	17													
P-18	74	97+97.91		98+04.00	LT./RT.	35													
P-19	74	97+97.91		98+02.91	RT.					5									
P-19A	74	98+95.72		99+00.72	RT.					5									
P-19B	74	98+98.32		99+00.72	RT.					5									
P-19C	74	99+00.72		99+05.72	RT.					5									
P-20	74	29+06.81		29+07.00	LT.		20												
SJ-8	74	99+67.40			LT.													1	
SJ-9	74	101+44.80			LT.														1
D-18	75	102+50.00			RT.									1					
D-19	75	102+50.00			LT.									1					
D-20	75	102+54.69			RT.												1		
DJ-3	75	102+58.58			LT.											1			
P-21	75	102+25.00		102+54.69	RT.					30									
P-22	75	102+43.83		102+54.69	RT.	15													
P-23	75	102+50.00		102+54.69	RT.	6													
P-24	75	102+50.00		102+54.69	LT./RT.	35													
P-25	75	102+50.00		102+58.58	LT.	14													
P-26	75	102+54.69		102+84.93	RT.						30								
SJ-10	75	103+32.64			LT.													1	
D-21	77	28+25.00			LT.									1					
P-27	77	28+24.82		28+25.00	LT.	12													
P-28	77	28+25.00		28+25.00	LT.		5												
				SUBTOTAL THIS SHEET		134	25			50	30		1	5		1	3	2	1
				QUANTITIES CARRIED FROM SHEET	65	375	65	10	204	10		85		8	1	2	7	4	2
		TOTALS CARRIED TO GENERAL SUMMARY				509	90	10	204	60	30	85	1	13	1	3	10	6	3

LEGEND

AB-# ABANDONED MANHOLE	R-# CURB REMOVED
C-# PROPOSED CURB	SJ-# SANITARY SEWER MANHOLE ADJUSTED OR RECONSTRUCTED TO GRADE
D-# PROPOSED STORM SEWER CATCH BASIN AND MANHOLE	SW-# PROPOSED WALK
DJ-# STORM SEWER CATCH BASIN AND MANHOLE ADJUSTED OR RECONSTRUCTED TO GRADE	SWR-# WALK REMOVED
DR-# STORM SEWER CATCH BASIN, MANHOLE, OR INLET REMOVED	WH-# PROPOSED FIRE HYDRANT
DV-# DRIVEWAY	WJ-# WATER WORK ITEM ADJUSTED TO GRADE
EX-# EXISTING CATCH BASIN, MANHOLE, OR INLET	WM-# PROPOSED WATER MAIN
FR-# FENCE REMOVED	WR-# WATER MAIN, WATER VALVE, OR FIRE HYDRANT REMOVED
P-# PROPOSED PIPE	WV-# PROPOSED WATER VALVE
PR-# PIPE REMOVED	WW-# PROPOSED WATER WORK ITEM

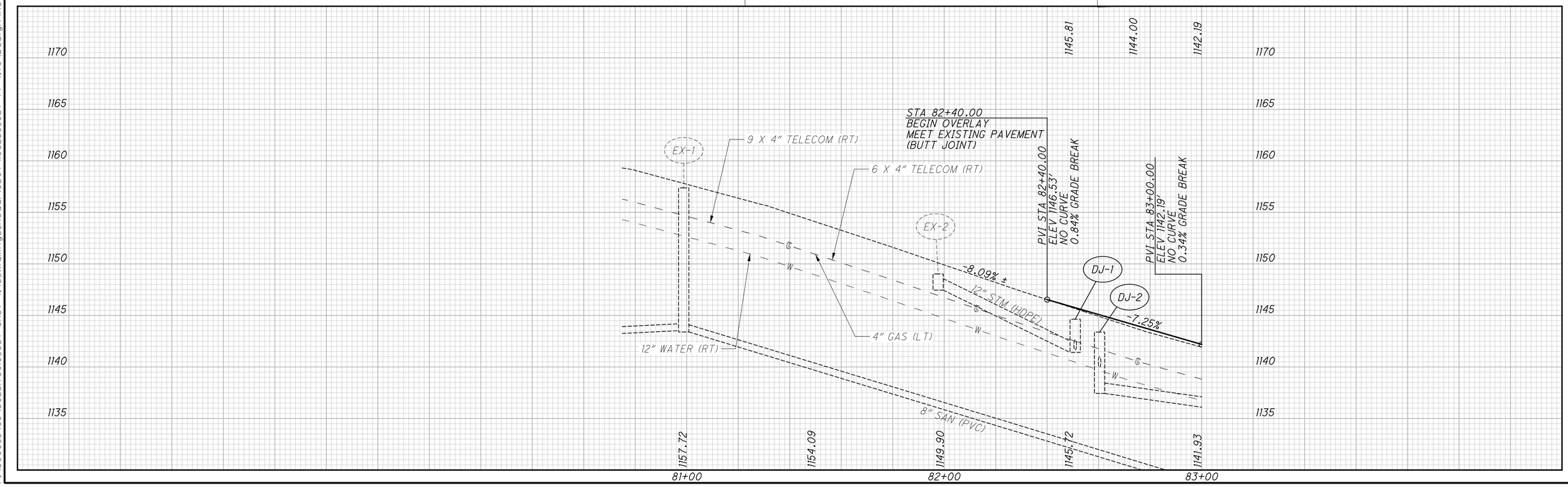


LEGEND

CONCRETE WALK

PAVEMENT OVERLAY OR RESURFACING

CROSS REFERENCES			
SHEET NO.			DESCRIPTION
11			BMs & PROJECT CONTROL
70			LEGEND
103	-	105	INTERSECTION DETAILS
106	-	112	DRIVEWAY DETAILS
128	-	129	UNDERDRAIN DETAILS



HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAH CHECKED RAK

PLAN AND PROFILE - WALLINGS ROAD
BEGIN TO STA. 83+00

CUY-77-4.79

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NO STOCKPILING/STORAGE/GRADE CHANGES WITHIN 25 FT OF THE TRANSMISSION LINES.

PC STA. 54+24.92
℄ CONST. RAMP D3

END WORK STA. 54+05

STA. 98+55.13, WALLINGS ROAD = STA. 53+14.81, RAMP D3

NOTE: PROPOSED PATHS FOR RELOCATED UNDERGROUND UTILITIES OUTSIDE OF THE BRIDGE LIMITS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH UTILITIES FOR FINAL RELOCATION PLANS.

SJ-7 = NOT USED

10' CURB TRANSITION TO APPROACH SLAB

+05. 16.83' LT END PAVEMENT TAPER

+55. 11.83' LT BEGIN PAVEMENT TAPER

N 0° 50' 59" W

EX. POLES TO BE RELOCATED BY OTHERS

+02. 26' LT BEGIN PAVEMENT TAPER

+52. 21' LT END PAVEMENT TAPER

STA. 100+39.02 END FULL DEPTH RECONSTRUCTION BEGIN OVERLAY

EX. WATER VALVE TO BE ADJUSTED TO GRADE

CONSTRUCTION LIMITS

+65. 21' LT BEGIN PAVEMENT TAPER

MATCH LINE STA. 97+00, SEE SHEET 73

MATCH LINE STA. 102+00, SEE SHEET 75

BEGIN APPROACH SLAB STA. 97+05.25

℄ R/W & CONST. WALLINGS ROAD

SAW CUT

N 89° 09' 04" E

* EX. POLE TO BE RELOCATED BY OTHERS

10' SIDEWALK AND CURB TRANSITION TO APPROACH SLAB

EX. ELECTRIC MANHOLE TO BE MODIFIED BY OTHERS

EX. ELECTRIC TO BE RELOCATED BY OTHERS

** (WW-2) PROP 1" METER SETTING STA. 99+70.00, 34.00' RT

EX. WATER METER TO BE REMOVED

STA. 98+43.14, WALLINGS ROAD = STA. 29+92.22, MILL ROAD

℄ R/W & CONST. MILL ROAD

PROP SPOOL PIECE INSTALLATION STA. 100+09.00, 11.88' RT

PROP 12"X6" TEE
PROP 6" GATE VALVE
STA. 100+06.50, 12.0' RT

PROP HYDRANT ASSEMBLY
STA. 100+06.00, 34.0' RT

PROP SPOOL PIECE INSTALLATION
99+99.00, 11.85' RT

+00. 23' RT BEGIN PAVEMENT TAPER

LEGEND

- CONCRETE WALK
- PAVEMENT OVERLAY OR RESURFACING

CROSS REFERENCES			
SHEET NO.			DESCRIPTION
11			BMs & PROJECT CONTROL
70			LEGEND
76	-	77	MILL RD PLAN & PROFILES
103	-	105	INTERSECTION DETAILS
104	-	105	CROWN TRANSITION
106	-	112	DRIVEWAY DETAILS
123	-	124	FENCE DETAILS
125			CURB RAMP DETAILS
128	-	129	UNDERDRAIN DETAILS
151			LIGHTING PLAN
152	-	167	SIGNAL PLAN
168	-	200	STRUCTURE PLAN

PVI STA 97+63.68
ELEV 1,072.93'
NO CURVE
0.13% GRADE BREAK

-3.75 %

4" GAS (LT)

2 X 4" ELECTRIC (RT)

17'-12" TYPE B @ 0.99%

5'-15" TYPE B, 706.02 @ 2.6%

MASONRY COLLAR PER DM-1.1

P.V.C. STA 98+80.32
ELEV = 1,068.41'

-3.88 %

30" GAS

15" STM (RCP)

5'-15" TYPE B, 706.02 @ 2.6%

5'-15" TYPE B, 706.02 @ 5.6%

20" GAS

DEPTH UNKNOWN

8" SAN (PVC)

P.V.I. STA 100+04.90 ELEV = 1,063.58'

STA 100+39.02
END FULL DEPTH RECONSTRUCTION
BEGIN OVERLAY

-3.88 %

-6.78 % ±

P.V.T. STA 100+94.76
ELEV = 1,057.49'

PROP. 12" WM

6" GAS (LT)

EX. 12"X8" TEE

15" STM (RCP)

12" WATER (RT)

8" SAN (PVC)

1080 1075 1070 1065 1060 1055 1050 1045

1075.32 1074.38 1073.45 1072.50 1071.53 1070.56 1069.59 1068.61 1067.62 1066.54 1065.39 1064.11 1062.72 1061.41 1060.19 1058.80 1057.15 1055.44 1053.64 1051.86 1050.12

1067.96 1073.21 1071.25 1069.37 1067.37 1065.14 1062.47 1059.94 1056.90 1053.39 1049.87

97+00 98+00 99+00 100+00 101+00 102+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED KAH CHECKED RAK

PLAN AND PROFILE - WALLINGS ROAD
STA. 97+00 TO STA. 102+00

CUY-77-4.79

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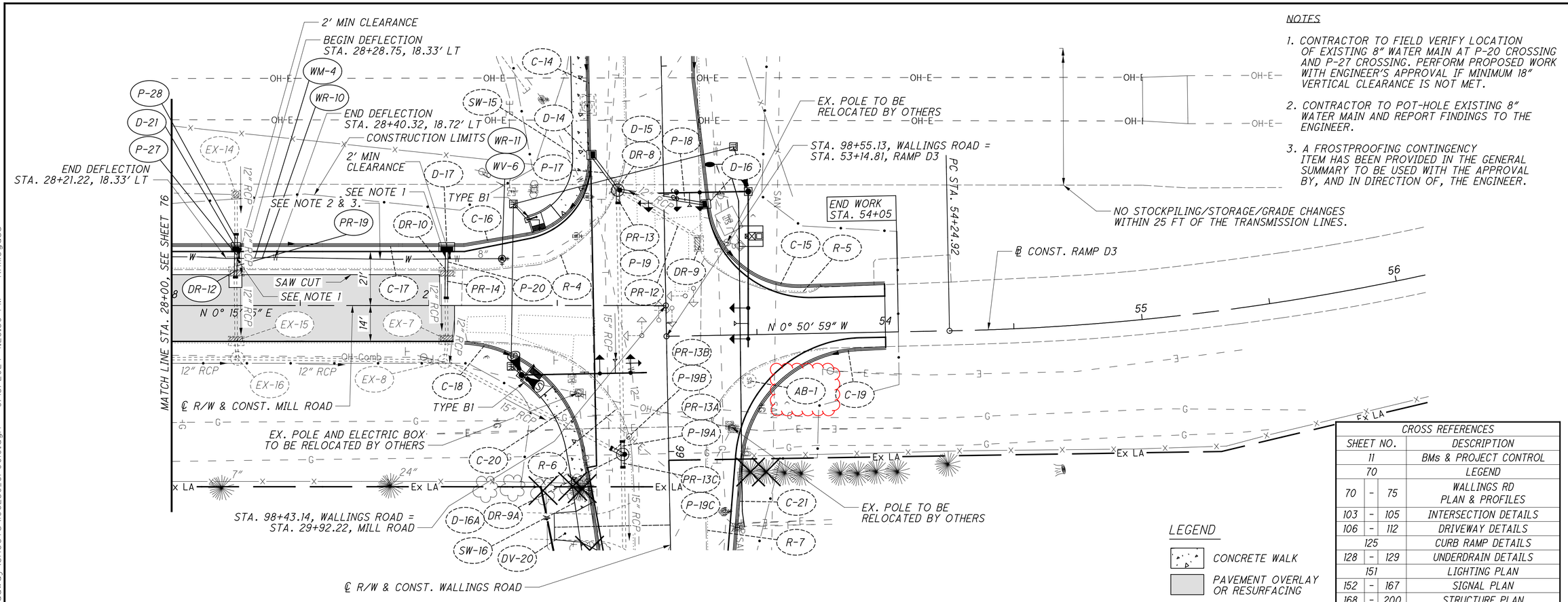


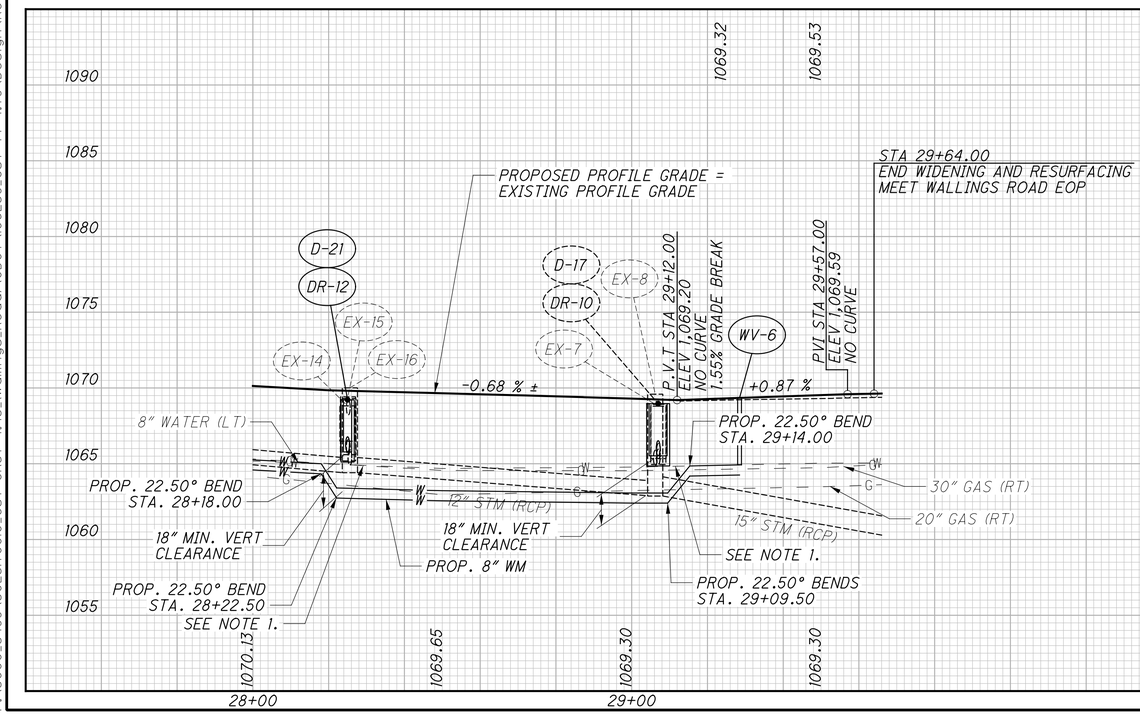
NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 8" WATER MAIN AT P-20 CROSSING AND P-27 CROSSING. PERFORM PROPOSED WORK WITH ENGINEER'S APPROVAL IF MINIMUM 18" VERTICAL CLEARANCE IS NOT MET.
2. CONTRACTOR TO POT-HOLE EXISTING 8" WATER MAIN AND REPORT FINDINGS TO THE ENGINEER.
3. A FROSTPROOFING CONTINGENCY ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY TO BE USED WITH THE APPROVAL BY, AND IN DIRECTION OF, THE ENGINEER.

LEGEND

- CONCRETE WALK
- PAVEMENT OVERLAY OR RESURFACING

CROSS REFERENCES			
SHEET NO.			DESCRIPTION
11			BMs & PROJECT CONTROL
70			LEGEND
70	-	75	WALLINGS RD PLAN & PROFILES
103	-	105	INTERSECTION DETAILS
106	-	112	DRIVEWAY DETAILS
125			CURB RAMP DETAILS
128	-	129	UNDERDRAIN DETAILS
151			LIGHTING PLAN
152	-	167	SIGNAL PLAN
168	-	200	STRUCTURE PLAN



HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED KAH CHECKED RAK

PLAN AND PROFILE - MILL ROAD STA. 28+00 TO END

CUY-77-4.79

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FOR LEGEND, SEE SHEET 80.

WALLINGS ROAD SHEET QUANTITIES CARRIED TO SHEET 93.

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	-23			-3	0
8		65	4		
	22			119	4
0		64	0		
	14			95	0
5		39	0		
	28			69	2
	41			280	6
	<0>			[0]	[0]

AB-1
STA 98+73.06, 31.9' LT
EX MH-1-SAN, COVER ELEV 1068.76'
PIPE INVERTS UNKNOWN

STA 99+00.72, 17.9' RT
MH-3, COVER ELEV 1067.22'
15" (W) 1060.11
15" (E) 1059.96
15" (SW) 1059.96

D-16A

DR-9A
STA 99+00.72, 17.9' RT
EX MH-3-48, COVER ELEV 1067.76'
15" RCP W 1060.11
15" RCP E 1059.96
15" RCP SW 1059.96

DRIVE STA. 99+29 RT.

3:1
6" UD
EX 4" GAS
EX 20" GAS
EX 12" WATER
6" UD
EX 4" ELECTRIC DUCTS
EX TELECOM
EX 15" STM
5'-15" TYPE B,
706.02 @ 3.80%
MASONRY COLLAR
PER SCD DM-1.1
P-19B
PR-13B
SEE MILL ROAD
CROSS SECTIONS

1067.62
99+00.00
1067.37

MATCH LINE
100 90 80 70 60 50

MATCH LINE
50 60 70 80 90 100

RAMP D3
10"
PROPOSED CROWN
MATCH LINE
MATCH LINE
EX 4" GAS
EX TELECOM
EX 12" WATER
EX 15" STM
EX 4" ELECTRIC DUCTS

1069.59
98+50.00
1069.37

EX 8" SAN

STA 98+04.00, 16.7' LT
CB-3A, GRATE ELEV 1070.73
6" UD (W) 1067.88
12" (S) 1067.23

D-16

DR-9
STA 98+19.31, 13.7' LT
EX CB-3, GRATE ELEV 1070.24'
12" RCP S 1066.59

DR-8
STA 97+97.06, 17.4' RT
EX CB-3, GRATE ELEV 1071.03'
12" RCP NNE 1065.43
15" RCP E 1062.88

D-15
STA 97+97.91, 17.8' RT
MH-3, COVER ELEV 1071.21
12" (SW) 1067.79
12" (N) 1066.88
15" (E) 1062.88

D-14
STA 97+84.00, 28.2' RT
CB-3A, GRATE ELEV 1071.46
6" UD (W) 1068.77
12" (NE) 1067.96

2.2'
PROPOSED CROWN
6:1
EX 4" GAS
6" UD
35'-12" TYPE B @ 1.01%
P-18
EX 12" STM
6" UD
EX 4" ELECTRIC DUCTS
17'-12" TYPE B @ 0.99%
EX 12" WATER
P-17
EX TELECOM

1071.53
98+00.00
1071.25

EX 8" SAN

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

CALCULATED KAH
CHECKED RAK

CROSS SECTIONS WALLINGS ROAD STA. 98+00.00 TO STA. 99+00.00

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