Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

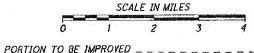
END PROJECT STA 367.50.00 SLM 6.96 STA 364+75.00

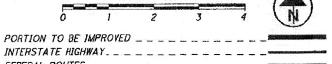
LOCATION MAP

LATITUDE: 40°30'55" LONGITUDE: 81°48'05"

COUNTY & TOWNSHIP ROADS. _ _ _ _ _ _ _

OTHER ROADS_______





DESIGN DESIGNATION

FEDERAL ROUTES

STATE ROUTES _ _ _ _ _

CURRENT ADT (2021)	_ 3300
DESIGN YEAR ADT (2041)	_ 4400
DESIGN HOURLY VOLUME (2041)	440
DIRECTIONAL DISTRIBUTION.	69%
TRUCKS (24 HOUR B&C)	_ 13%
DESIGN SPEED	_ 55 MPH
LEGAL SPEED	_ 55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
05 MAJOR COLLECTOR (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBER
LANE WIDTH:	2-12-19	2-3
SHOULDER WIDTH:	2-12-19	2-3
HORIZONTAL CURVE RADIUS:	2-12-19	12
STOPPING SIGHT DISTANCE:	2-12-19	12

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



PLAN PREPARED BY: ODOT DISTRICT II ENGINEERING DEPT. NEW PHILADELPHIA, OH ENGINEERS SEAL: (GEOTECHNICAL)

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HOL-557-6.90

CLARK TOWNSHIP HOLMES COUNTY

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTIONS	2-3
GENERAL NOTES	4-5
MAINTENANCE OF TRAFFIC	6-9
GENERAL SUMMARY	10-11
PLAN AND PROFILE	12-13
ESTIMATED QUANTITIES	14
CROSS SECTIONS - S.R. 557	15-18
CHANNEL CROSS SECTIONS	19-20
RIGHT OF WAY	21-23
SOIL PROFILE	

ATTENTION Contact the Ohio Department of Transportation for current Plans of Record

PROJECT DESCRIPTION

IMPROVEMENT OF 0.06 MILES (275') OF S.R. 557 IN HOLMES COUNTY BY STABILIZATION OF FAILED SLOPES USING SPECIAL BENCHING AND EMBANKMENT, INCLUDING NEW GUARDRAIL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A (MAINTENANCE) ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE) NOTICE OF INTENT EARTH DISTURBED AREA: N/A (MAINTENANCE)

2019 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

SPECIAL SUPPLEMENTAL STANDARD CONSTRUCTION DRAWINGS SPECIFICATIONS **PROVISIONS** 800-2019 7/17/20 WATERWAY 1/17/20 MT-96.11 4/17/20 TC-41.20 10/18/13 SIGNED: C. Coly lots 7/15/16 TC-42.20 PERMIT 10/18/13 MT-96.20 DATE: 6/24/2020() CONDITIONS 7/21/17 117-98.26 1/18/19 TC-52.10 10/18/13 06/10/19 1/15/16 MT-97.10 4/19/19 TC-52,20 7/20/18 ENGINEERS SEAL: 1/15/16 MT-101.70 W17/20 TC-61.30 7/19/19 (ROADWAY) 1/17/20 TC-65.10 1/19/18 MT-101.90 7/21/17 TC-65.11 1/19/18 MT-105.10 1/18/13 NICOLE SLANINA E-74336 MGS-5.3 7/15/16 4/17/20

BIRECTOR, DEPARTMENT O TRANSPORTATION

23

9

57

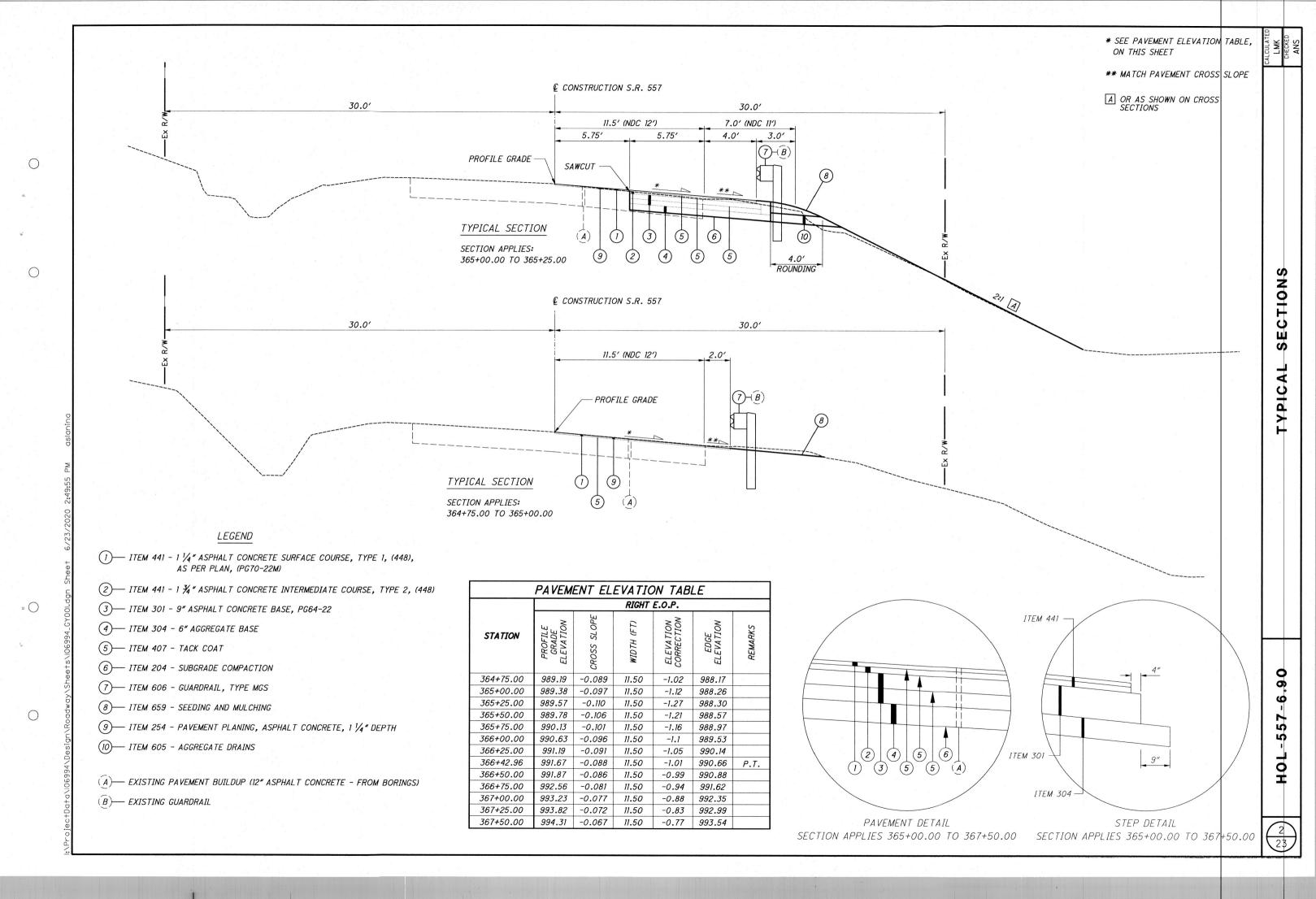
S

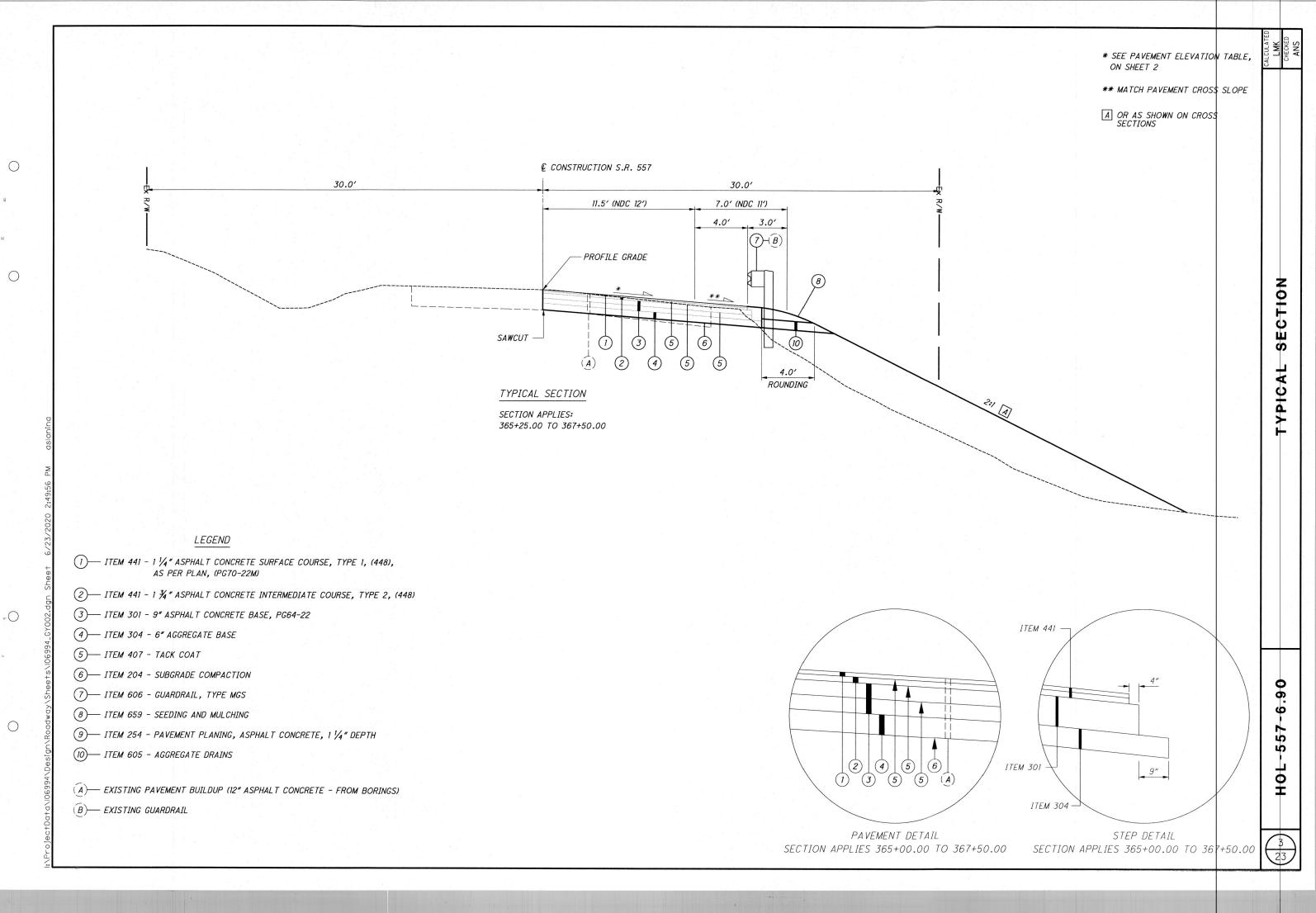
를 크

E180(846)

6690

NON





FRONTIER COMMUNICATIONS
ATTN: LARRY WENDELL
1121 TUSCARAWAS AVENUE, NW
NEW PHILADELPHIA, OHIO 44663
OFFICE: (330) 364-0510

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

WORK LIMITS

 \bigcirc

 \bigcirc

v ()

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

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

BENCHING OF FOUNDATION SLOPES

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

ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL I THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER I THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. 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.

ROUNDING

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

WATERS OF THE US

WATERS OF THE US HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA. THESE FEATURES ARE SHOWN IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL EXERCISE CAUTION TO ENSURE THAT NO IMPACTS OCCUR TO ANY WATERS OF THE US IN EXCESS OF THE IMPACTS DEPICTED BY THE CONSTRUCTION LIMITS IN THE PLANS.

ANY OTHER SITE PROPOSED BY THE CONTRACTOR FOR OFF PROJECT ANCILLARY CONSTRUCTION (STAGING AREAS, WASTE LOCATIONS, AND/OR BORROW LOCATIONS) MUST MEET THE REQUIREMENTS OF CMS 105.16.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 14 FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL:

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.00005716496571
ORIGIN OF COORDINATE SYSTEM: N 310216.171, E 2162529.712

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

UNITS ARE IN U.S. SURVEY FEET.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG70-22M)

FOLLOW SPECIFICATION 703.05 EXCEPT DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

THE FOLLOWING QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. FINAL PAYMENT SHALL BE FOR THE ACCEPTED QUANTITY COMPLETED IN PLACE.

STA. 365+00	(RIGHT)	6 FT.
STA. 365+50	(RIGHT)	6 FT.
STA. 366+00	(RIGHT)	6 FT.
STA. 366+50	(RIGHT)	6 FT.
STA. 367+00	(RIGHT)	6 FT.
TOTAL		30 FT.

TOTAL QUANTITY CARRIED TO GENERAL SUMMARY

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

FENCE LENGTHS

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

O

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

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF SHOULDER.

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

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

ITEM 601 - DUMPED ROCK FILL, TYPE B, AS PER PLAN ITEM 601 - DUMPED ROCK FILL, TYPE D, AS PER PLAN

THIS WORK SHALL FOLLOW THE SPECIFICATIONS OF ITEM 601 EXCEPT THAT THE DUMPED ROCK FILL SHALL BE WRAPPED IN GEOTEXTILE FABRIC SUCH THAT THE GEOTEXTILE PROVIDES A LAYER OF SEPARATION BETWEEN THE DUMPED ROCK FILL AND SURROUNDING SOILS. NO GEOTEXTILE FABRIC SHALL BE PLACED IN BETWEEN THE LAYERS OF DUMPED ROCK TYPES 'B' AND 'D' NOR ON THE EXPOSED FACE OF THE DUMPED ROCK.

THE COST OF WRAPPING THE DUMPED ROCK FILL IN GEOTEXTILE FABRIC AS DESCRIBED ABOVE SHALL BE INCIDENTAL TO THE COST OF PLACING THE DUMPED ROCK FILL AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

PAVEMENT MARKING

THE CONTRACTOR SHALL INSTALL PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 646 - EDGE LINE, 6"

STA. 362+97.00 TO STA. 369+00.00 (LT.)= 0.11 MILE

STA. 362+97.00 TO STA. 370+10.00 (RT.) = 0.14 MILE

TOTAL = 0.25 MILE

ITEM 646 - CENTER LINE

STA. 362+38.00 TO STA. 369+00.00 = 0.13 MILE STA. 370+00.00 TO STA. 371+89.00 = 0.04 MILE

TOTAL = 0.17 MILE

RAISED PAVEMENT MARKERS (RPM)

THE CONTRACTOR SHALL REMOVE ALL EXISTING RAISED PAVEMENT MARKERS AND INSTALL NEW RPMS WITHIN THE PROJECT LIMITS. SPACING FOR THE NEW RPMS SHALL BE 40'.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

STA. 362+38.00 TO STA. 369+00.00 = 18 EACH STA. 370+00.00 TO STA. 371+89.00 = 6 EACH

TOTAL = 24 EACH

ITEM 621 - RPM

STA. 362+38.00 TO STA. 369+00.00 = 18 EACH STA. 370+00.00 TO STA. 371+89.00 = 6 EACH

TOTAL = 24 EACH

EARTHWORK AND SEEDING TABLE												
	20	659										
SHEET NO.	EXCA VA TION	EMBANKEMENT	SEEDING AND MULCHING									
	CY YD	CU YD	SQ YD									
15	2	1	52									
16	529	820	586									
17	585	643	376									
18	139	138	92									
19	10	11	109									
20	11	0	41									
TOTAL CARRIED TO GENERAL SUMMARY	1276	1613	1256									

SEEDING AND MULCHING

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

ITEM 659 - SOIL ANALYSIS TEST

2 EACH

139 C.Y. x 1 TEST/10000 C.Y. = 0.014 C.Y.

(MINIMUM OF 2 TESTS)

ITEM 659 - TOPSOIL

1256 S.Y. x 111 C.Y./1000 S.Y. = 139.42 C.Y. (USE 139 C.Y.)

ITEM 659 - REPAIR SEEDING AND MULCHING

1256 S.Y. x 0.05

= 62.8 S.Y. (USE 63 S.Y.)

ITEM 659 - COMMERCIAL FERTILIZER

1256 S.Y. × 9 × 30 LB/1000 S.F. × 1/2000 = 0.17 TON (FOR REPAIR SEEDING)

63 S.Y. x 9 x 20 LB/1000 S.F. x 1/2000 = 0.006 TON

TOTAL = 0.18 TON

ITEM 659 - LIME

1256 S.Y. x 9 x 1 Ac./43560 S.F. = 0.26 ACRES

ITEM 659 - WATER

1256 S.Y. × 9 × 300 Gal/1000/1000 × 2 app. = 6.78 M. GAL.

(FOR REPAIR SEEDING) 63 S.Y. x 9 x 300 Gal/1000/1000 =

0.17 M. GAL.

TOTAL = 6.95 M. GAL

(USE 7 M. GAL.)

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

GENERAL NOTES

HOL-557-6

0

<u>5</u>

Roadway\Sheets\106994_GN002.dgn Sheet 6/23/2020 2:49:58

 \bigcirc

 \bigcirc

ITEM 614, MAINTAINING TRAFFIC

 \bigcirc

 \bigcirc

£ ()

 \bigcirc

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 614 AND THE MAINTENANCE OF TRAFFIC DESCRIBED ON SHEETS 6-9.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC. AND ITEM 615 ROADS FOR MAINTAINING TRAFFIC. AS PER PLAN.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASON-ABLE TIME FRAME. AS DETERMINED BY THE ENGINEER. SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAIN-TENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614. ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

10 CH YD

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

LOCAL ACCESS COORDINATION

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL MEET WITH AFFECTED PROPERTY OWNERS PRIOR TO THE OPENING OF EACH MAIN-TENANCE OF TRAFFIC PHASE TO DISCUSS HOW THE SIGNAL PHASING AND DRIVEWAY ACCESS WILL FUNCTION.

DUST CONTROL

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

ITEM 616 - WATER

10 M. GAL.

SEQUENCE OF CONSTRUCTION

1.) INSTALL PAVEMENT FOR MAINTAINING TRAFFIC, WORK ZONE GUARDRAIL, ALL WORK ZONE CONSTRUCTION SIGNALS, WORK ZONE SIGNS. WORK ZONE PAVEMENT MARKINGS. PORTABLE BARRIER, AND MAINTAIN TRAFFIC AS SHOWN IN THE PLAN AND STANDARD CONSTRUCTION DRAWINGS.

2.) COMPLETE EMBANKMENT RECONSTRUCTION AND SLOPE REPAIR. PROPOSED FULL-DEPTH PAVEMENT (UP TO AND INCLUDING INTERMEDIATE COURSE), GUARDRAIL, AND EROSION CONTROL IN STREAM 1.

3.) REMOVE BARRIER WALL AND MAINTAIN A BARREL ZONE. PLANE SURFACE COURSE PAVEMENT IN AREAS REQUIRING PAVEMENT PLANING AT THE BEGINNING OF THE PROJECT. REPLACE GUARDRAIL THAT WAS REMOVED FOR THE WORK ZONE GUARDRAIL INSTALLATION. REMOVE PAVEMENT FOR MAINTAINING TRAFFIC AND PERFORM THE CHANNEL WORK ON THE WEST SIDE OF THE ROADWAY.

4.) REMOVE ALL MAINTENANCE OF TRAFFIC DEVICES AND UTILIZE A FLAGGING OPERATION TO PLACE THE ASPHALT CONCRETE SURFACE COURSE.

5.) PLACE ALL PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES.

ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN

THIS WORK SHALL INCLUDE THE CONSTRUCTION OF TEMPORARY MGS GUARDRAIL WITH LONG POSTS THAT TRANSITIONS FROM EXISTING TYPE 5 GUARDRAIL PER SCD MGS-4.3, THE MGS TYPE E ANCHOR ASSEMBLY, AND THE REMOVAL OF EXISTING GUARDRAIL AND RESTORATION BEFORE OPENING THE ROAD TO TWO-LANE TRAFFIC.

THIS WORK SHALL ALSO INCLUDE THE MAINTENANCE OF DITCH FLOW AND DRIVE PIPE CAPACITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A DAILY VISUAL EVALUATION OF THE AVAILABLE CAPACITY OF THE EXISTING DITCHES AND DRIVE PIPES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE CLEARING OUT ANY DITCH OR DRIVE PIPE IF THE CAPACITY IS DETERMINED TO BE TOO LOW AS DIRECTED BY THE ENGINEER.

THIS WORK SHALL ALSO INCLUDE THE EXCAVATION AND EMBANKMENT NEEDED TO CONSTRUCT THE PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. THESE EARTHWORK QUANTITIES CAN BE FOUND ON THIS SHEET AND ARE FOR INFORMATION ONLY.

ALL WORK DESCRIBED ABOVE SHALL BE INCLUDE IN THE LUMP SUM BID PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC EMBANKMENT FOR MAINTAINING TRAFFIC O CU. YD. 23 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

I IGHTING

LIGHTING SHALL BE PROVIDED AT EACH END OF THE LANE CLOSURE FOR THE CLOSING OF ONE LANE OF A TWO-LANE HIGHWAY.

LIGHTING SHALL BE BY CONVENTIONAL METHODS, WITH LU-MINAIRE ARMS ATTACHED TO THE SIGNAL SUPPORTS. AREA ILLUMINATION SHALL BE PROVIDED BY USING 150 WATT MINIMUM HIGH PRESSURE SODIUM LUMINARIES OR 250 WATT MINIMUM MERCURY LUMINARIES. THE MINIMUM HEIGHT OF THE LUMINAIRE SHALL BE 27 FT FROM THE GROUND SURFACE.

PAYMENT FOR LIGHTING SHALL INCLUDE DELIVERY, ERECTION, MAINTENANCE AND REMOVAL AS CALLED FOR IN THE PLANS. PAYMENT SHALL BE PER EACH. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - WORK ZONE LIGHTING SYSTEM

2 EACH

OVERHEAD-MOUNTED WORK ZONE SIGNALS

SIGNALS SHALL BE OVERHEAD MOUNTED IN ACCORDANCE WITH THE DETAILS SHOWN ON SCD MT-96.20.

SIGNALS SHALL BE LOCATED AT STA. 363+72.00 AND STA. 368+92.00 AND STA. 369+39.00 FOR TR 154.

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON SHEET 9 AND STANDARD CONSTRUCTION DRAWINGS MT-96.11. MT-96.20. AND MT-96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

	PHASE														
6	1	2	3	4	5	6									
	ALL RED	S.R. 557 (EASTBOUND)	ALL RED	S.R. 557 (WESTBOUND)	ALL RED	T.R. 154									
MIN. GREEN		10		10		10									
EXTENSION		4		4		4									
MAX. GREEN		21		21		21									
YELLOW	·	4		4		4									
ALL RED	20		20		20										
RECALL	ON	OFF	OFF	OFF	OFF	OFF									

* PHASES AS SHOWN ON SCD MT-96.20 & MT-96.26 FOR ACTUATED CONTROL.

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION. FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR. IN ADDITION, THE CONTRACTOR SHALL NOT BE PERMITTED TO USE A DETECTOR SYSTEM THAT REQUIRES LOOPS TO BE CUT INTO THE PAVEMENT.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)

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

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

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

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

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

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

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

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR PAVEMENT FOR MAINTAINING TRAFFIC. WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE PAVEMENT FOR MAINTAINING TRAFFIC WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY, NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OF LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED PAVEMENT FOR MAINTAINING TRAFFIC WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

No	OTIFICATION TIME	TABLE
ITFM	DURATION OF	NOTICE DUE TO
1 / E/M	CLOSURE	PERMITS & PIO
	>= 2 WEEKS	21 CALENDAR DAYS
	/- Z WEEKS	PRIOR TO CLOSURE
RAMP & ROAD	> 12 HOURS &	14 CALENDAR DAYS
CLOSURES	< 2 WEEKS	PRIOR TO CLOSURE
э	<= 12 HOURS	4 BUSINESS DAYS
	(- 12 HOURS	PRIOR TO CLOSURE
	>= 2 WFFKS	14 CALENDAR DAYS
LANE CLOSURES &)= 2 WEEKS	PRIOR TO CLOSURE
RESTRICTIONS	Z O WEEKS	5 BUSINESS DAYS
*	< 2 WEEKS	PRIOR TO CLOSURE
START OF		14 CALENDAD DAVC
CONSTRUCTION &	A/ /A	14 CALENDAR DAYS
TRAFFIC PATTERN	N/A	PRIOR TO
CHANGES		IMPLEMENTATION

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



BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70.

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

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)

 \bigcirc

 \bigcirc

 \bigcirc

6 EACH

ITEM 614, OBJECT MARKER, TWO-WAY

6 EACH

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

DELINIATION OF TEMPORARY AND PERMANENT GUARDRAIL

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

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

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

ITEM 614, BARRIER REFLECTOR, TYPE 2
(BIDIRECTIONAL)

5 EACH

ITEM 614, OBJECT MARKER, TWO-WAY

5 EACH

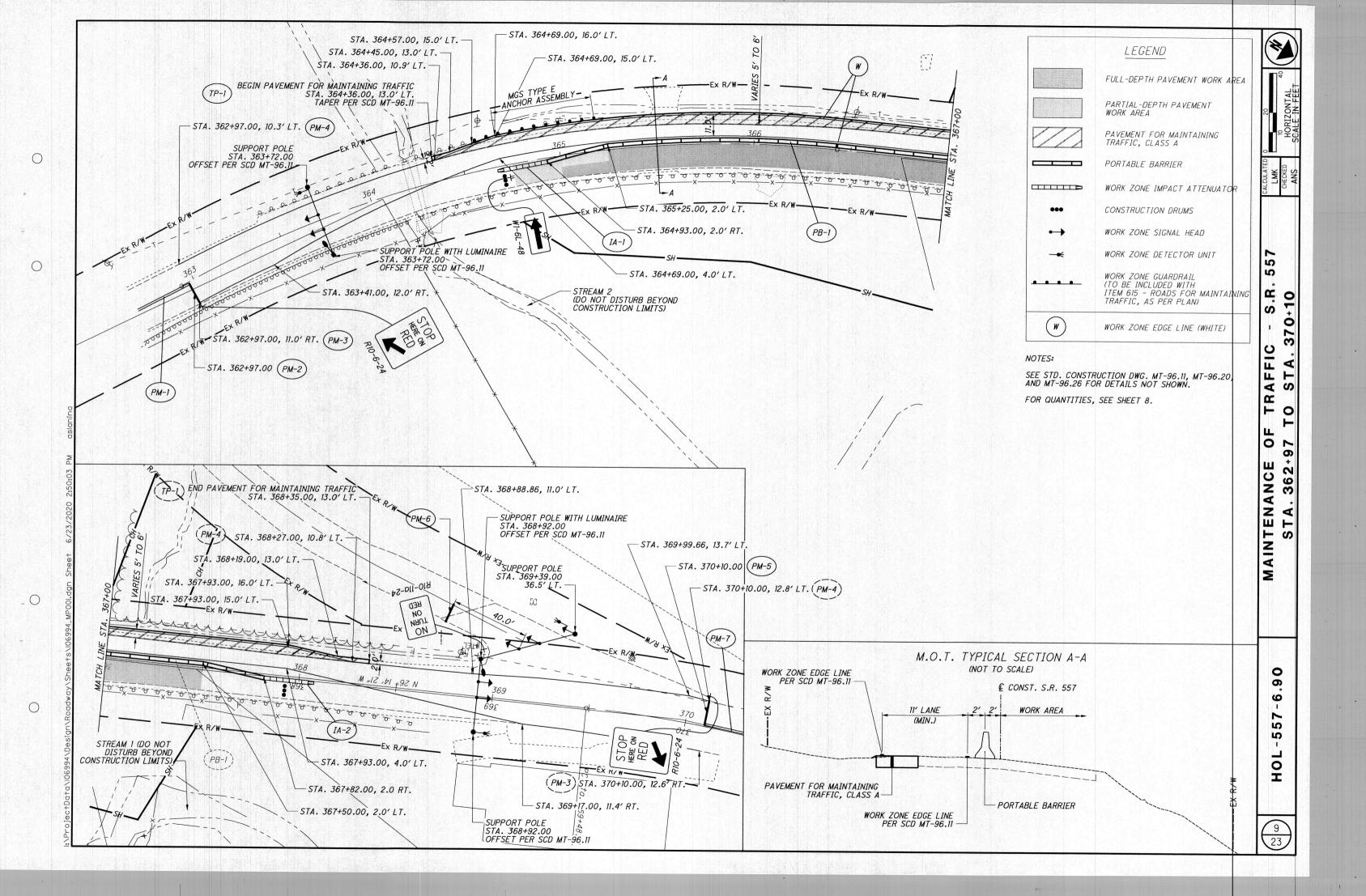
PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

622 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A ICAD AREAJ WORK ZONE CENTER LINE, CLASS 1, 740.06, TYPE 1 WORK ZONE EDGE LINE, CLASS 1, 6", 740.06, TYPE WORK ZONE STOP LINE, CLASS 1, 740.06, TYPE 1 ROADS FOR MAINTIANING TRAFFIC, AS PER PLAN REF. SHEET NO. NO. STATION SIDE QUANTITIE **TO** 362+97.00 FROM MILE MILE FT EACH SY LUMP FT PM-1 357+97.00 LT/RT 0.09 362+97.00 RT 362+97.00 370+10.00 LT/RT LT 0.14 РМ-3 PM-4 362+97.00 370+10.00 0.14 370+10.00 LT 12 ED PM-6 368+72.03 LT 10 PM-7 370+10.00 375+10.00 LT/RT 0.09 ESTIMAT IA-1 364+67.00 364+93.00 RT 367+82.00 368+08.00 RT IA-2 364+36.00 368+35.00 LT 209 LUMP 364+93.00 367+82.00 LT/RT PB-1 290 TRAFFIC OF MAINTENANCE တ့ 9 57 2 HOL TOTALS CARRIED TO GENERAL SUMMARY 0.28 33 2 LUMP 209 290

Roadway\Sheets\106994_M000Ldgn Sheet 6/23/2020 2:50:00 PM aslanina

 \circ

 \bigcirc

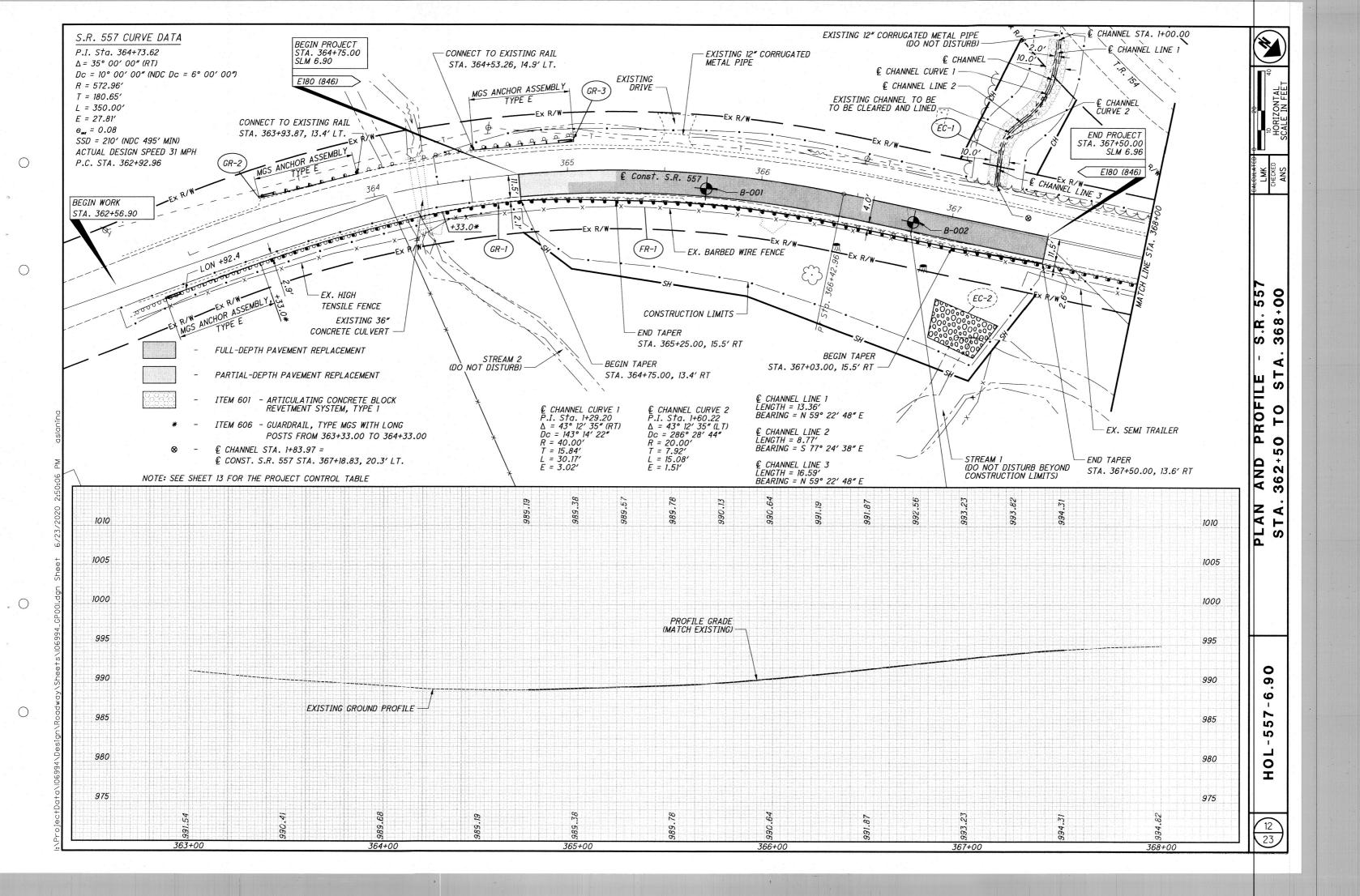


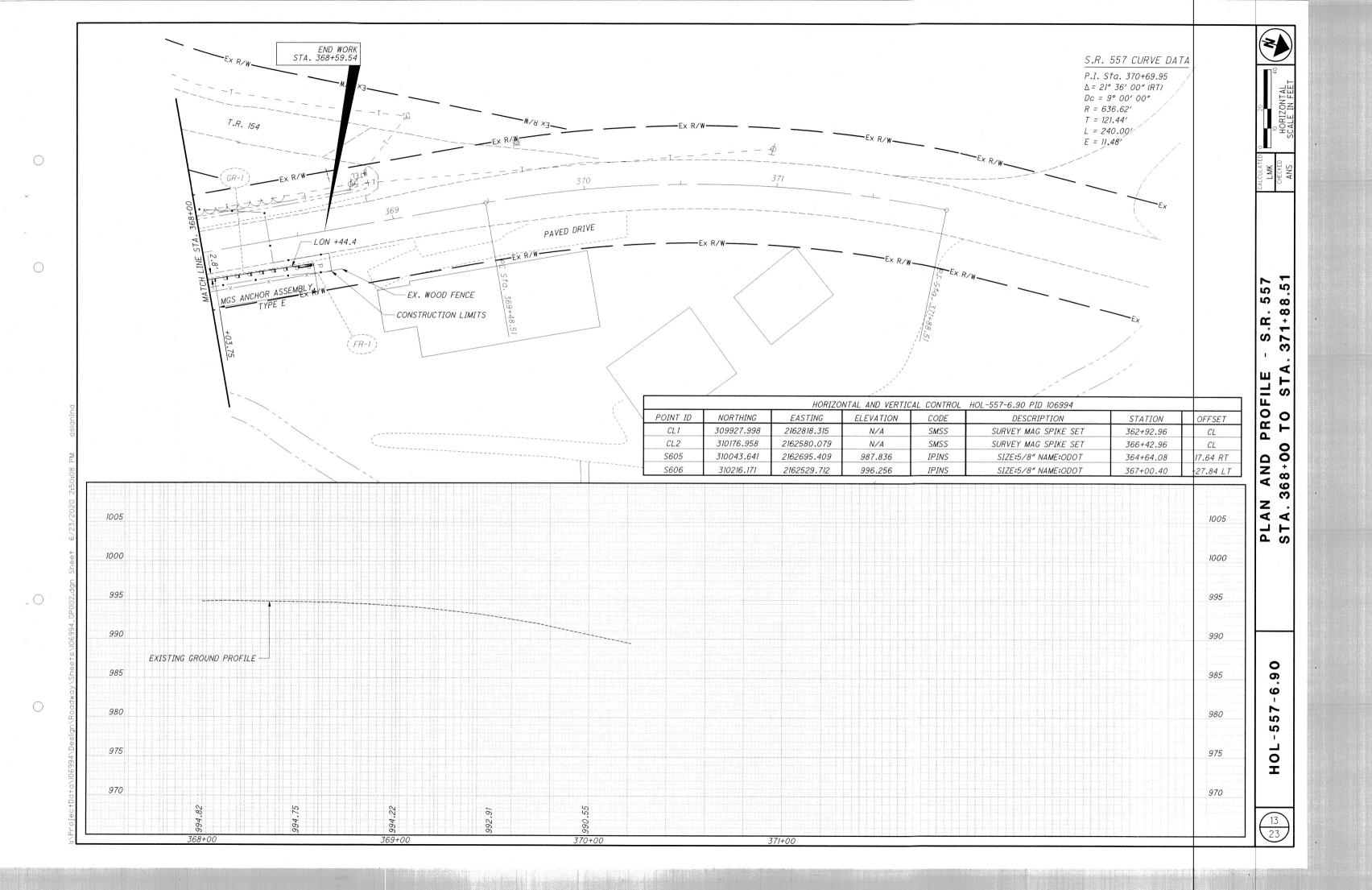
* 1	SHEET NUM.					PART.	ITEM	ITEM	GRAND		UNUT	UNIT	UNIT	DESCRIPTION	SEE	CULATED BSH			
4	5	14		1,1							OFFICE CALCS	01/STR/C	IIEM	EXT	TOTAL	UNII	DESCRIPTION	SHEE NO.	CALCU
LS						×	-					1.6	001	11000			ROADWAY		_
LJ												LS	201	11000	LS	8	CLEARING AND GRUBBING	4	-
			* :		я						410	410	202	23000	410	SY	PAVEMENT REMOVED		
		685 603						-				685 603	202	38000	685	FT	GUARDRAIL REMOVED		
		003				ž.						603	202	75000	603	FT	FENCE REMOVED		-
	1,276				<i>f</i> =							1,276	203	10000	1,276	CY	EXCAVATION		
	1,613									-		1,613	203	20000	1,613	CY	EMBANKMENT		1
				* 1 s						†	451	451	204	10000	451	SY	SUBGRADE COMPACTION		-
									~ ,										
		362.5 100										362.5 100	606 606	15050 15100	362.5 100	FT FT	GUARDRAIL, TYPE MGS GUARDRAIL, TYPE MGS WITH LONG POSTS		_
		4				3		2		*)		4	606	26150	4		ANCHOR ASSEMBLY, MGS TYPE E(NCHRP 350 or MASH 2016)		\dashv
		94			200							94	601	23000	94	SY	EROSION CONTROL ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1		_
		46										46	601	26001	46	CY	DUMPED ROCK FILL, TYPE B, AS PER PLAN	5	
		41	25									41	601	28001	41	CY	DUMPED ROCK FILL, TYPE D, AS PER PLAN	5	
	2								1			2	659	00100	2	EACH	SOIL ANALYSIS TEST		
	139					2						139	659	00300	139	CY	TOPSOIL		-
	1,256						10		-			1,256	659	10000	1,256	SY	SEEDING AND MULCHING		
	63 0.18								1	 		63 0.18	659 659	14000 20000	63 0.18	SY TON	REPAIR SEEDING AND MULCHING COMMERCIAL FERTILIZER		
													000	20000	0.70	7011	COMMENCIAL FERTILIZEN		
	0.26 7		-					¥				0.26	659	31000	0.26	ACRE	LIME		
									1			7	659	35000	/	MGAL	WATER		_
						-						1,000	832	30000	1,000	EACH	EROSION CONTROL		
						2 b							,						
	0	6		8.	101 10	2 2				0.0							DRAINAGE		
30						8						30	605	31100	30	FT	AGGREGATE DRAINS		
		9 8																	
						-					279	279	252	01500	279	FT	PAVEMENT FULL DEPTH PAVEMENT SAWING		-
																			1
			1				-				55	55	254	01000	55	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25" DEPTH		
											105	105	301	46000	105	CY	ASPHALT CONCRETE BASE, PG64-22		-
		W 4	0.0	0 0			10		15										
											73	73	304	20000	73	CY	AGGREGATE BASE]
											51	51	407	10000	51	GAL	TACK COAT		+
					2		e 201												
-+			2				59		9 7		16 20	16 20	441	50101 50300	16 20	CY CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN (PG70-22M) ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	4	-
											20	20	771	30300	20	67	ASTRALT CONCRETE INTERMEDIATE COURSE, TITE 2, (440)		1
	24					5 200	s										TRAFFIC CONTROL		
	24								 			24	621 621	00100 54000	24	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED		_
							79		1 .				021	37000	27	LACIT	TAISED FAVEMENT MAINEN NEMOVED		1
		17		. 17					n 2			17	626	00110	17	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)		
	0.25						8	3 0				0.25	646	10010	0.25	MILE	EDGE LINE, 6"		-
	0.17				-				2			0.17	646	10200	0.17	MILE	CENTER LINE		1
				a sal			20 (4)												
-+		· · · · · · · · · · · · · · · · · · ·										-				-			-
					6	6 × 8			97					9					
9							- ,*											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
_					4 8 6			-											+
							R 2					T							\dashv
				2,															
		0				12				0.0		-							+
							,					1							-
					-														\exists

17 ESA		SHEET NUM.					PART.		ITEM	GRAND	1			ATED							
6	7	8						20 x					01/STR/0 T	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SEE SHEET NO	CALCUL	CHECK
																		MAINTENANCE OF TRAFFIC		\top	
2		2	-	-	-			-					2	614	12338	2	EACH	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL) FOR 24" WIDE HAZARDS			
10			 				-		1				2 10	614 614	12740 13000	2	EACH	WORK ZONE LIGHTING SYSTEM		_	
10	6		 			-				1			6	614	13310	10 6	CY EACH	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC BARRIER REFLECTOR, TYPE 1, (BIDIRECTIONAL)		_	
4.	5		1	w.							-		5	614	13312	5	EACH	BARRIER REFLECTOR, TYPE 2, (BIDIRECTIONAL)		-	
															10012		LAOII	DAIMLEN NEI EEO TON, THE 2, IDIDINEO TIONAE	+	-	
	11												11	614	13360	11 -	EACH	OBJECT MARKER, TWO WAY		-	
		0.18				2 0	- T						0.18	614	21200	0.18	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I		1	
	ļ	0.28	ļ				4		, A.				0.28	614	22210	0.28	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I		1	
-		33	<u> </u>	-									33	614	26400	33	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I		1	
		LS	-							-			1.6	015							
		209	<u> </u>										LS 209	615 615	10001 20000	LS	CV	ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN	6		
		200	 	1						<u> </u>			209	615	20000	209	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		4	
10										1			10	616	10000	10	MGAL	WATER		\dashv	
							, and a second					1								1	
		290		1 2 5			A.						290	622	41100	290	FT	PORTABLE BARRIER, UNANCHORED		1	
		-		4	1			-	 	ļ	ļ] }	≻
10		 	 	-	-		-	-	 	<u> </u>	ļ		1.0					INCIDENTALS] '	_
LS	-	-							-	 	-	-	LS	614	11000	LS	IMITI	MAINTAINING TRAFFIC		_ ՝	7
		 			1	* * * * .	-	 		-	 	-	5 LS	619 623	16000 10000	5 LS	MNIH	FIELD OFFICE, TYPE A		⊣ '	2
		-					 		 				LS	624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION		⊣ ?	2
				1	1		1						1 -	1	,,,,,,,			modeler 1001	-	1	SUMMAR
																				┤ `	3)
				3 8 0	, "				9.											1 .	_
		8															N N			1 .	4
				-] 1	\propto
				12 .			-	l												_ !	GENER
2																				4 7	Z
G							1				1	-								-	Щ.
N D																				1 '	9
																			1	1	
≥	. ,				5 8 ³															1	
02				<u> </u>	1 1 1							-			1						
20				-			1	*	-		ļ	-	5 0				,				
~~~~~							<u> </u>	-		-		-				2	8			4	
050	2 2		1		10		1					1			17		-			-	
3/2				1															-	-	
5/2																				1	
							S 8 8													1	
<b>O</b>		-		1							-									]	
R.										-		-									
L D	0							1			-									4	
)2.d								n n	0 N.			<b>1</b>			8					-	
000					8 2											D 8	2 2 2		<del>                                     </del>	1	
9 - 4 0 - 4						* * *			е											1	
669					8 2			7								1				1-	
9								-	a a							F 3 8	. ,				
ψ + 0	1							-												1	
, je								1	-	-		-								<b>↓</b> '	0
S								-											-		တ့
D >		12 15																	+	- (	ပ္
DDC																				1 ,	_
Ä							8														S
- Ig									1 .							1					5
Des				1	W. 1			-	* 1												ٺ
94		-					, n°													1 7	<u></u>
1690			-	1			B													վ :	Ĭ
									2 38											1 -	_
+ D				12°					2										1	1	
0+0			100													WA-40-1				1_	
ē																				1/	11
7				-																1	23
<u></u>		L		1	<u> </u>	L	L	L		L	L	<u> </u>								$\perp$	

- (

 $\bigcirc$ 



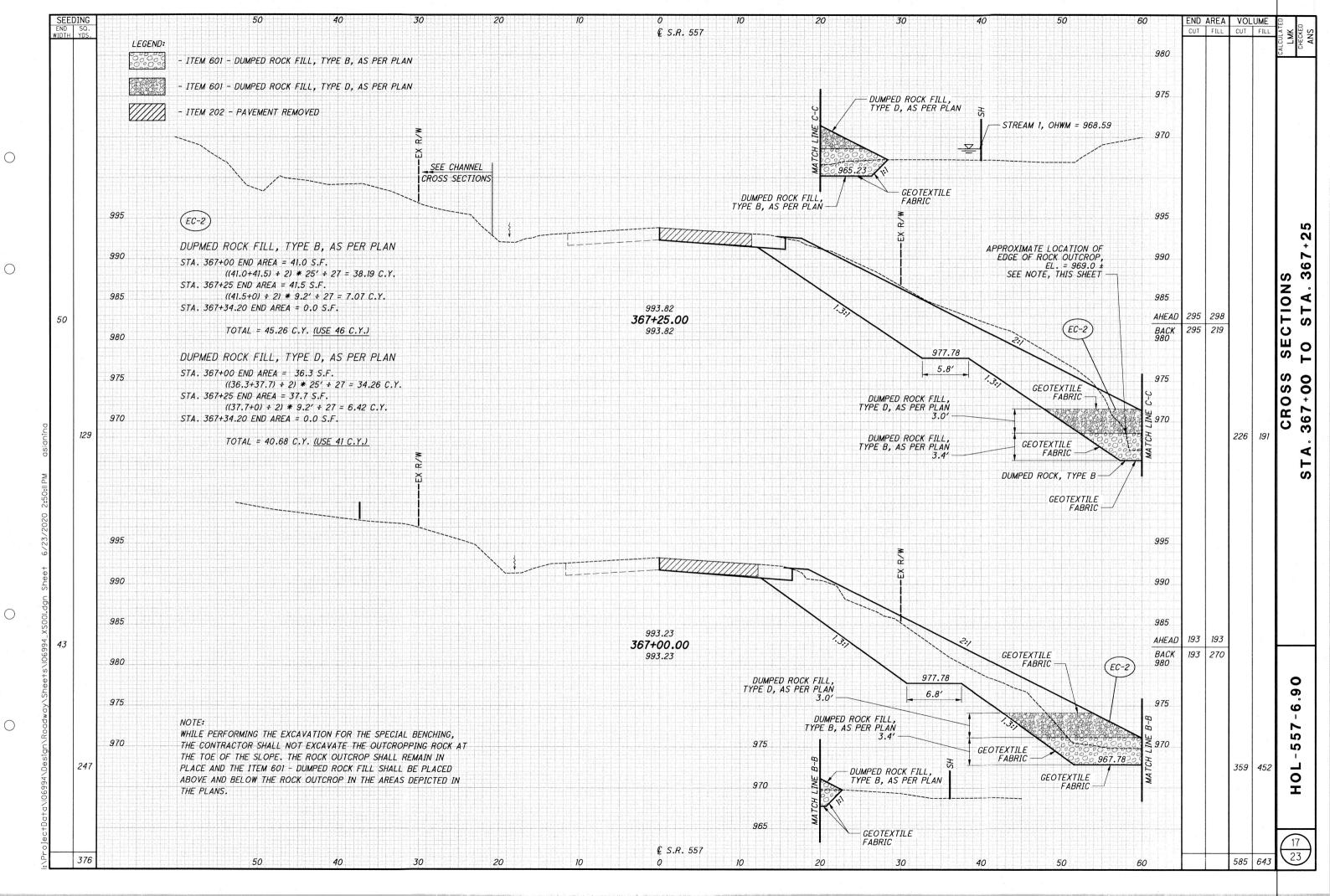


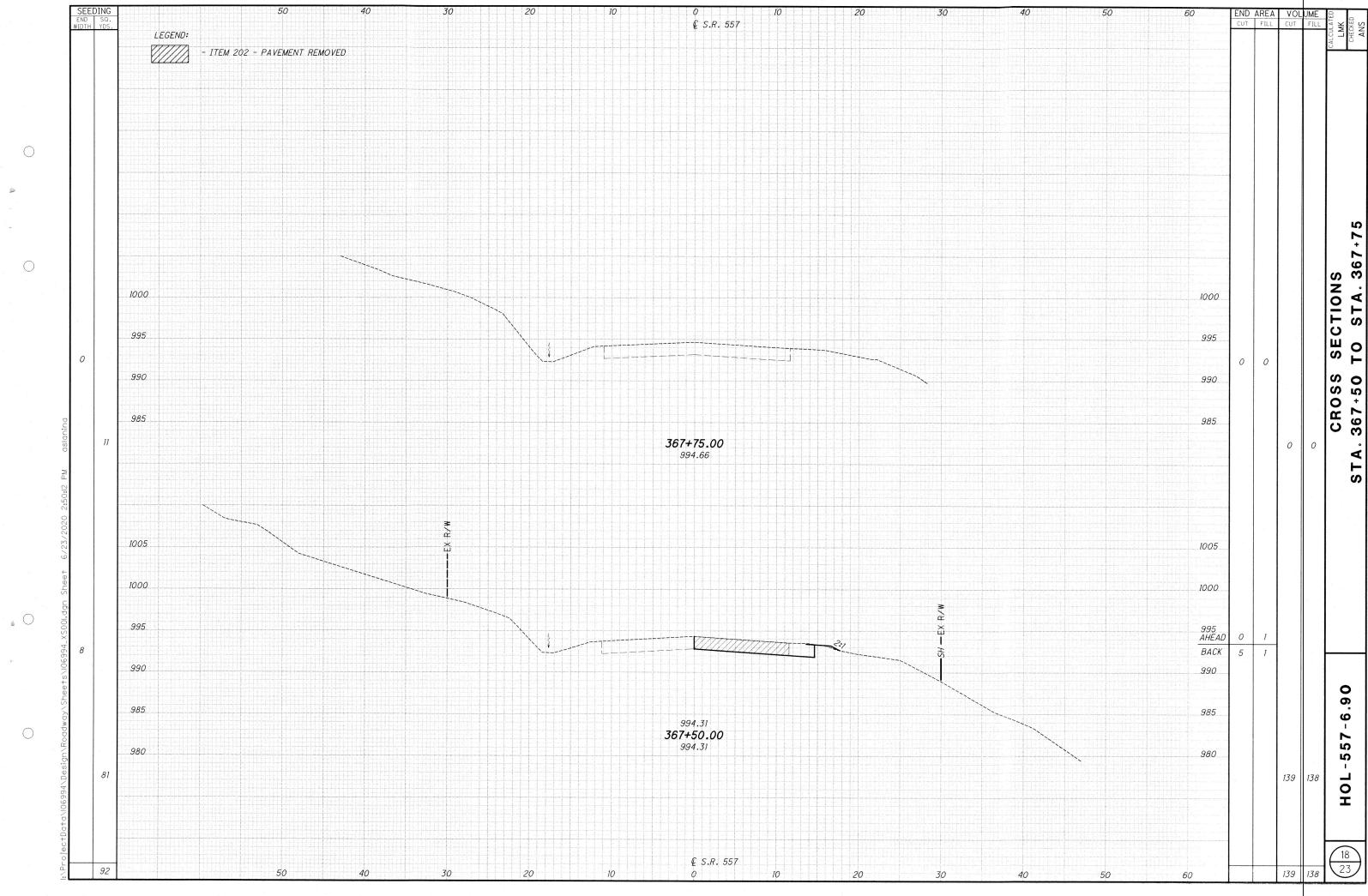
202 GUARDRAIL, TYPE MGS WITH 99 LONG POSTS 626 202 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE I BARRIER REFLECTOR, TYPE 2, (BIDIRECTIONAL) DUMPED ROCK FILL, TYPE B, AS PER PLAN DUMPED ROCK FILL, TYPE D, AS PER PLAN FENCE REMOVED REF. SHEET STATION SIDE FROM 362+93.00 363+43.00 **TO**368+55.50
363+93.87 FT FT FT EACH EACH SY CY FT CY 585 50 12-13 RT 362.5 100 13 LT GR-3 364+53.26 365+04.00 50 12 1+00.00 1+84.00 LT/RT 94 367+00.00 367+34.20 RT EC-2 17 46 QUANTITIES 12-13 362+56.90 368+59.54 RT FR-1 603 ESTIMATED HOL-557-6.90 TOTALS CARRIED TO GENERAL SUMMARY 362.5 100 17 41 4 94 46 603

NRoadway\Sheets\106994_60001.dgn Sheet 6/23/2020 2:50:09 PM aslanina

 $\bigcirc$ 

*s* O





 $\bigcirc$ 

 $\bigcirc$