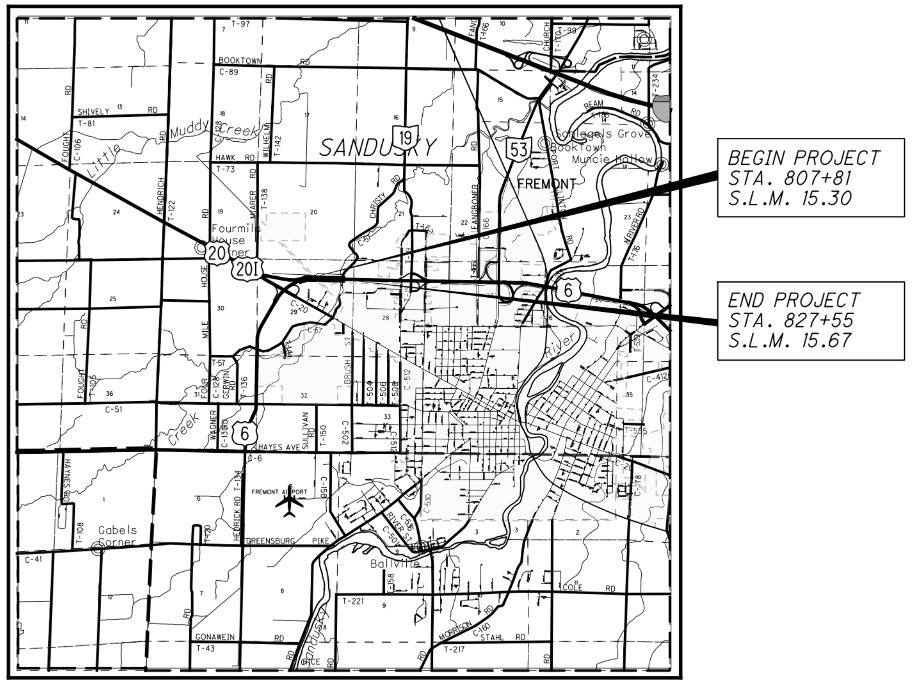


LOCATION MAP

LATITUDE: 41°22′6.80″ LONGITUDE: 83°9′3.48″

SCALE IN MILES
0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2019) 16000
DESIGN YEAR ADT (2039) 17000
DESIGN HOURLY VOLUME (2019) 1500
DIRECTIONAL DISTRIBUTION 57%
TRUCKS (24 HOUR B&C) 22%
DESIGN SPEED 70 MPH
LEGAL SPEED 65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:
RURAL PRINCIPAL ARTERIAL
NHS PROJECT YES

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

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

PLAN PREPARED BY:
ODOT DISTRICT 2
317 EAST POE ROAD
BOWLING GREEN, OHIO 43402

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SAN-6-15.30

SANDUSKY TOWNSHIP
SANDUSKY COUNTY

INDEX OF SHEETS:

PROJECT DESCRIPTION

REPAIR OF APPROXIMATELY 2,500 FEET OF FAILED 2:1 EMBANKMENT. RECONSTRUCT SLOPE WITH WELL-COMPACTED FILL AND A STABLE SLOPE ANGLE. INCORPORATE GROUNDWATER DRAINAGE TO ALLEVIATE PORE WATER PRESSURE IN THE SLOPE SOILS.

EARTH DISTURBED AREA

PROJECT EARTH DISTURBED AREA: 5.56 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.19 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 5.75 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

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

ENGINEERS SEAL:

STATE OF OHIO ★ LAURELL L. ADAMS E-53947 REGISTERED PROFESSIONAL ENGINEER ★

SIGNED:
DATE: 8/14/2020
SHEETS: 12-13

ENGINEERS SEAL:

STATE OF OHIO ★ DOUG A. ROGERS E-63903 REGISTERED PROFESSIONAL ENGINEER ★

SIGNED:
DATE: 11-30-20
SHEETS: 1-11, 14-49

STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	7/18/14	MT-95.40	1/17/20				800-2019	7/17/20	WATERWAY
BP-5.1	1/18/19						821	4/20/12	PERMITS
							832	10/19/18	CONDITIONS
DM-1.1	7/17/20	MT-98.29	1/17/20				875	1/18/19	DATED 10/09/20
DM-1.2	1/18/13	MT-101.70	1/17/20				878	1/17/20	
DM-4.3	1/15/16	MT-101.75	1/17/20						
DM-4.4	1/15/16	MT-101.90	7/17/20						
		MT-103.10	1/19/18						
MGS-1.1	1/19/18	MT-120.00	1/19/18						
MGS-2.1	1/19/18								
MGS-3.1	1/19/18	TC-41.10	7/19/13						
MGS-3.2	1/18/13	TC-42.10	10/18/13						
MGS-6.1	1/19/18	TC-42.20	10/18/13						
		TC-52.20	7/20/18						
RM-4.2	4/18/14								

APPROVED Pat McColley, PE
DATE 8/20/2020 DISTRICT DEPUTY DIRECTOR

APPROVED ____________
DATE ______ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. **E150472**

PID NO. **99085**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT **NONE**

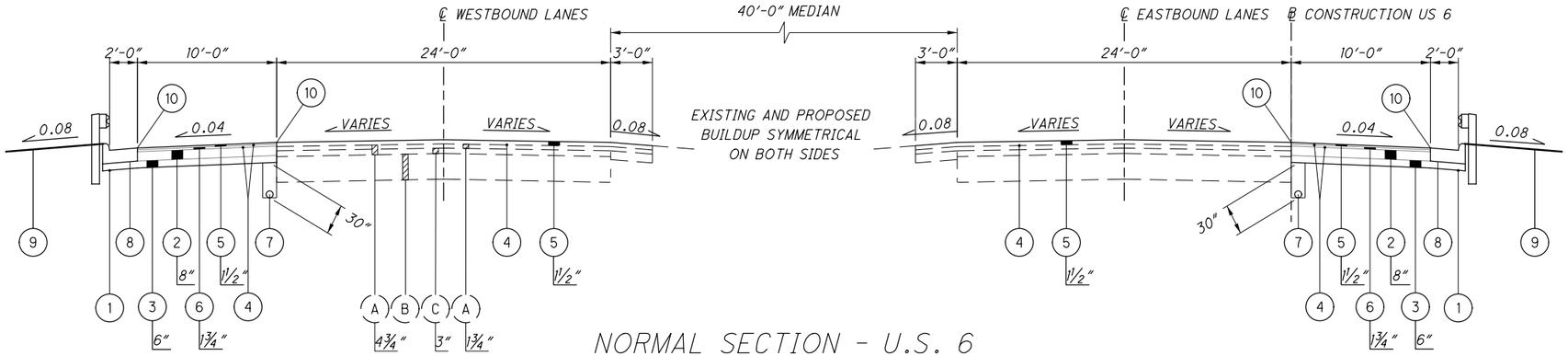
I:\ProjectData\SAN\99085_SAN-6-15.13\Design\Roadway\Sheets\99085_GT001.dgn 30-NOV-2020 10:38AM drogers2

LEGEND

1. ITEM 204 - SUBGRADE COMPACTION
2. ITEM 301 - ASPHALT CONCRETE BASE, PG64-22
3. ITEM 304 - 6" AGGREGATE BASE
4. ITEM 407 - NON-TRACKING TACK COAT
5. ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448)
6. ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448)
7. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31
8. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN *
9. ITEM 659 - SEEDING AND MULCHING
10. ITEM 875 - LONGITUDINAL JOINT ADHESIVE

- (A) EXISTING ASPHALT (THICKNESS SHOWN)
- (B) 9" REINFORCED CONCRETE PAVEMENT
- (C) BITUMINOUS AGGREGATE BASE

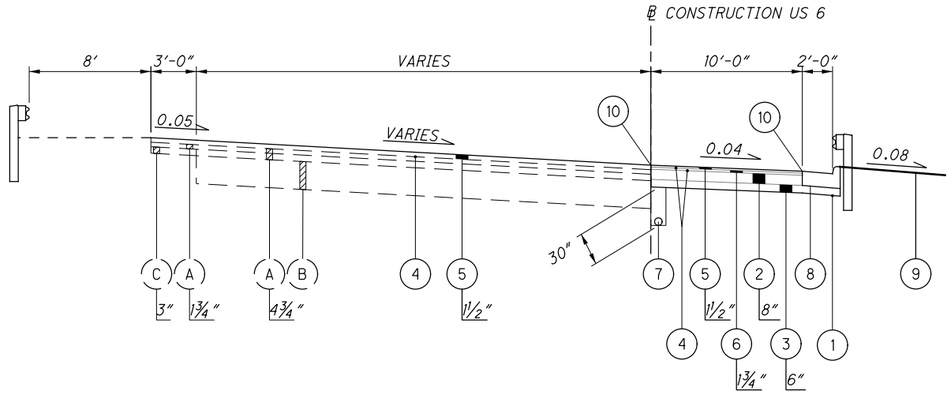
TYPICAL SECTION "A"



NORMAL SECTION - U.S. 6

TYPICAL SECTION APPLIES TO:
U.S. 6 E.B. - STA. 11+66.73 TO STA. 21+78.50 = 1011.77 FT.
U.S. 6 W.B. - STA. 101+00.00 TO STA. 107+05.08 = 605.08 FT.
1616.85 FT.

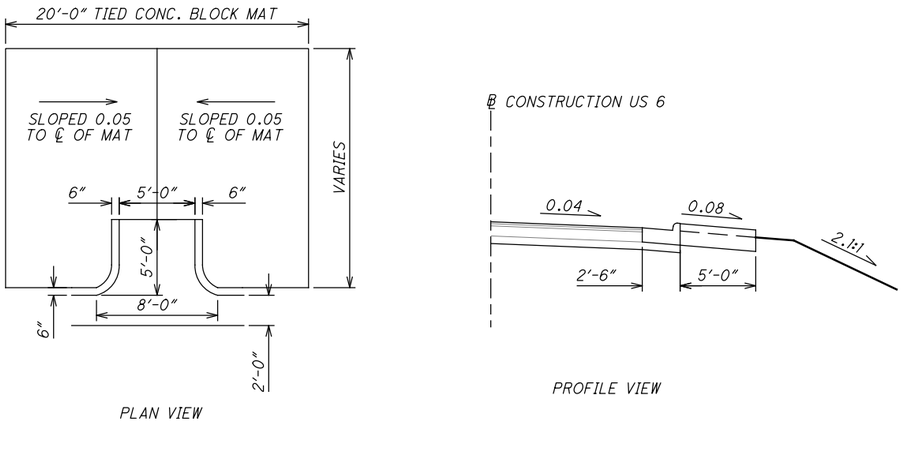
TYPICAL SECTION "B"

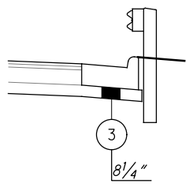


SUPERELEVATED SECTION - U.S. 6

TYPICAL SECTION APPLIES TO:
U.S. 6 E.B. - STA. 2+00.00 TO STA. 8+91.88 = 691.88 FT.

GUTTER OUTLET DETAILS





EDGE DETAIL UNDER CURB

THICKEN 304 UNDER CURB TO ACCOUNT FOR ℄ THICKNESS DIFFERENCE WITH PAVEMENT

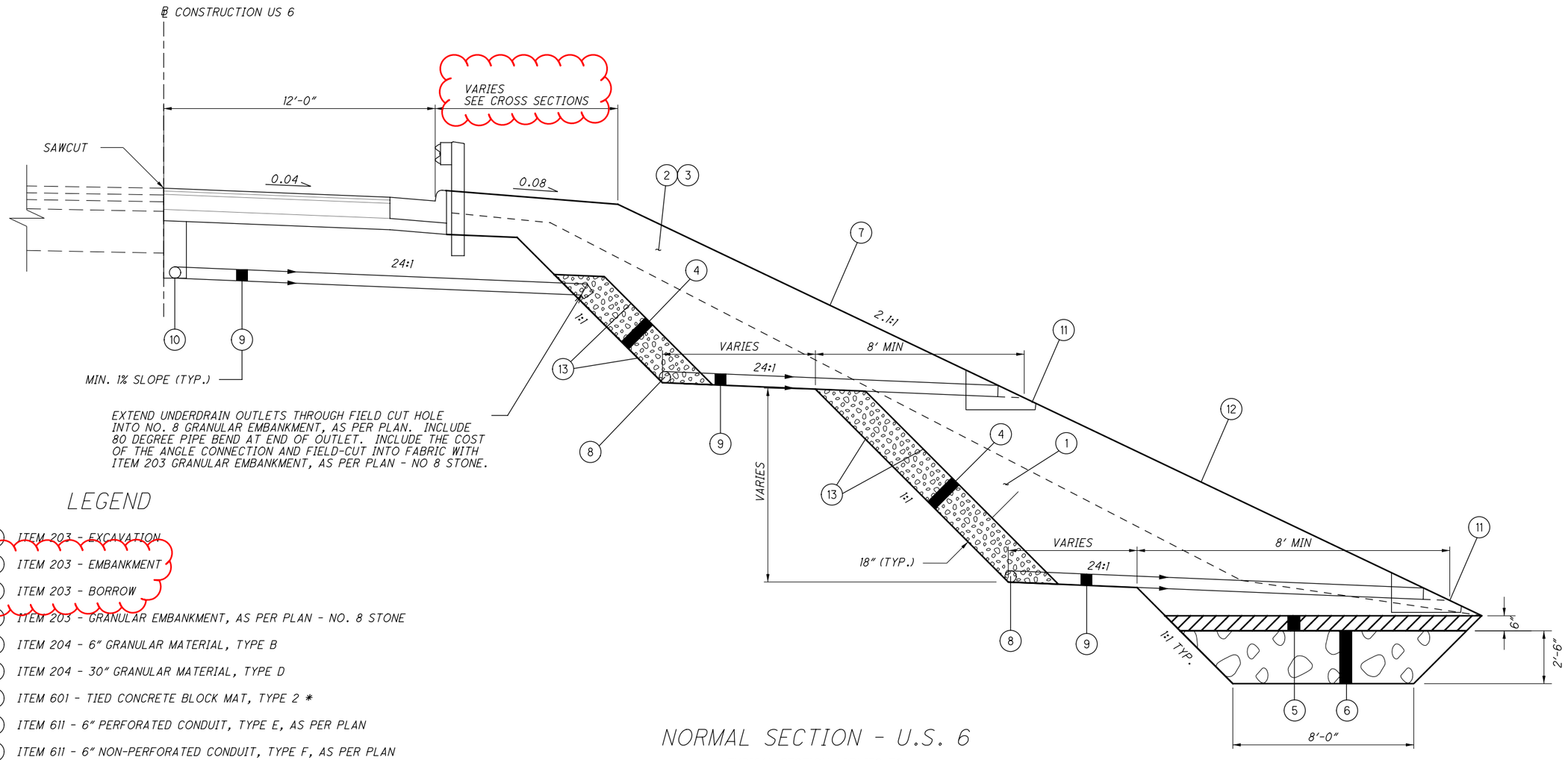
*PLACE GUTTER OUTLETS AT EACH LOCATION OF TIED CONCRETE BLOCK MAT (9 TOTAL) PLACE TO AVOID GUARDRAIL POST LOCATIONS

TYPICAL SECTIONS

SAN-6-15.30

3
49

TYPICAL SECTION "C"



LEGEND

1. ITEM 203 - EXCAVATION
2. ITEM 203 - EMBANKMENT
3. ITEM 203 - BORROW
4. ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN - NO. 8 STONE
5. ITEM 204 - 6" GRANULAR MATERIAL, TYPE B
6. ITEM 204 - 30" GRANULAR MATERIAL, TYPE D
7. ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 2 *
8. ITEM 611 - 6" PERFORATED CONDUIT, TYPE E, AS PER PLAN
9. ITEM 611 - 6" NON-PERFORATED CONDUIT, TYPE F, AS PER PLAN
10. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, 707.31
11. ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 690 - SPECIAL - GEOTEXTILE FABRIC, WRAPPED AROUND NO.8 STONE

* AT DRAIN OUTLETS, SLOPED 5% TO ℄ OF MAT

NORMAL SECTION - U.S. 6

TYPICAL SECTION APPLIES TO:
U.S. 6 E.B. - STA. 2+00.00 TO STA. 9+16.53, 11+50.00 TO 22+03.53
U.S. 6 W.B. - STA. 101+00.00 TO STA. 107+30.12

ROUNDING

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

UTILITIES

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

DRAINAGE

OHIO DEPARTMENT OF TRANSPORTATION
317 EAST POE ROAD
BOWLING GREEN, OHIO 43402
419-353-8131

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

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.

SURVEYING POSITIONAL PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET ___ OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD83
GEOID: 2012A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONIC CONFORMAL
COORDINATE SYSTEM: OHIO_STATE_PLANE_NORTH_ZONE
COMBINED SCALE FACTOR: GRID=1.000000
ORIGIN OF COORDINATE 0,0

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.

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.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA.

THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

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

SEEDING AND MULCHING

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

ITEM 659, SOIL ANALYSIS TEST,	3 EACH
ITEM 659, TOPSOIL,	2159 CU YD
ITEM 659, COMMERCIAL FERTILIZER,	1.70 TON
ITEM 659, LIME,	4
ITEM 659, WATER,	6.275 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.

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.

SPECIAL BENCHING SLOPE DRAINS

PLACE SPECIAL BENCHING SLOPE DRAINS AT THE LOCATIONS SHOWN ON THE PLAN AND PROFILE AND CROSS SECTION SHEETS. THESE DRAINS SHALL CONSIST OF ITEM 204 GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE), ITEM 690 GEOTEXTILE FABRIC, 712.09 TYPE A, AND ITEM 611 CONDUIT TYPE E, 707.31 (PERFORATED). THE TYPE E CONDUIT SHALL BE PERFORATED AS PER CONDUIT FOR ITEM 605 UNCLASSIFIED PIPE UNDERDRAINS. THE GRANULAR EMBANKMENT SHALL BE PLACED IN LIFTS AS THE SPECIAL BENCHING BACKFILL IS CONSTRUCTED. TRANSVERSE OUTLET DRAINS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLAN & PROFILE AND CROSS SECTION SHEETS. THESE OUTLET DRAINS SHALL CONSIST OF ITEM 611 CONDUIT TYPE F, 707.33 WITH ITEM 611 PRECAST REINFORCED CONCRETE OUTLETS.

ITEM 611, 6" CONDUIT, TYPE E, AS PER PLAN, 707.31

THE TYPE E CONDUIT SHALL BE PERFORATED AS PER CONDUIT FOR ITEM 605 UNCLASSIFIED PIPE UNDERDRAINS. INCLUDED IN THIS BID ITEM ARE THE CONNECTIONS REQUIRED FOR CONDUIT INSTALLATION. THE CONNECTIONS INCLUDE:

- (3) 90° ELBOW (6"):
- (3) TEE CONNECTIONs (12"x6"x6"):
- (3) END PLUGS (6"):

ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN

THIS ITEM SHALL FOLLOW THE SPECIFICATIONS FOR THE 606 ITEM EXCEPT THAT THE GUARDRAIL POSTS SHALL BE STEEL ACCORDING TO CMS 710.15.

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.

ITEM 690, GEOTEXTILE FABRIC, 712.09, TYPE A

GEOTEXTILE FABRIC SHALL BE USED TO PREVENT INFILTRATION OF FINES INTO THE SLOPE DRAIN. THE FABRIC SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS FORMED INTO A WOVEN OR NON-WOVEN FABRIC. THE TYPE "A" MATERIAL SPECIFICATIONS ARE DESCRIBED IN CMS 712.09.

ITEM 875 - LONGITUDINAL JOINT ADHESIVE 600 LB.

QUANTITIES WERE DETERMINED BY THE RATE 1 LB./4 FT.
TOTALS CARRIED TO THE GENERAL SUMMARY.

ITEM 255, PAVEMENT REPAIR:

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR FULL DEPTH PAVEMENT REPAIR FOR US 6 AS DIRECTED BY THE ENGINEER.

ITEM 255, FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1	80 SY

CALCULATED JET
CHECKED DAR

GENERAL NOTES

SAN-6-15.30

ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN

A MINIMUM OF ONE (1) LANE OF TRAFFIC IN BOTH DIRECTIONS SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING LEFT LANE. TRAFFIC SHALL BE MAINTAINED ACCORDING TO STANDARD DRAWING MT-95.40 (CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH PORTABLE CONCRETE BARRIER).

FOR THE PURPOSE OF SETTING THE PORTABLE CONCRETE BARRIER, THE WORK AREA IS CONSIDERED TO BE STA. 2+00.00 (EB) TO STA. 22+03.53 (EB) AND STA. 22+03.53 (WB) STA. 100+97.66 (WB) TO KEEP THE RIGHT LANE CLOSED FOR CONSTRUCTION ACTIVITIES. TO KEEP THE RIGHT LANE CLOSED FOR CONSTRUCTION ACTIVITIES

THE LENGTH AND DURATION OF THE LANE CLOSURE AND RESTRICTIONS SHALL BE SIXTY (60) CONTINUOUS CALENDAR DAYS. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS, AS DETERMINED BY THE ENGINEER. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $3000 PER DAY FOR EACH CALENDAR DAY EITHER OF THE OUTSIDE LANES OR RAMP SHOULDER REMAIN CLOSED TO TRAFFIC ON US 6 OR US 20. THE CONTRACTOR IS RESPONSIBLE FOR SETTING UP AND MAINTAINING THE DETOUR ROUTES ON THE PROJECT UTILIZING SR 590 FOR THE DETOUR FOR THE RAMP CLOSURE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH STANDARD DRAWING MT-95.40:

ITEM 614, WORK ZONE IMPACT ATTENUATOR, (UNIDIRECTIONAL)	2 EACH
ITEM 614, FLASHING ARROW PANEL, TYPE C	2 EACH
ITEM 622, PORTABLE CONCRETE BARRIER,	3350 FT

PAYMENT FOR THE FOLLOWING ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH SD MT-95.40 SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

-WORK ZONE SIGNS AND SIGN SUPPORTS
-TYPE A WARNING LIGHTS
-DRUMS
-WORK ZONE PAVEMENT MARKINGS AND MARKING REMOVAL
-BARRIER REFLECTORS AND/OR OBJECT MARKERS
-TYPE III BARRICADES

WORK UNDER THIS PAY ITEM INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL, MAINTAIN, AND REMOVE THE ITEMS LISTED ABOVE.

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, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 8 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

BARRIER REFLECTORS AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET.

ITEM 614, FLASHING ARROW PANEL, TYPE C

THE FLASHING ARROW PANEL SHALL BE LOCATED AS SHOWN IN THE MAINTENANCE OF TRAFFIC STANDARD DRAWING MT-95.40. THE PANEL WILL FEATURE A FLASHING LEFT ARROW. SPECIFICATIONS FOR THE FLASHING ARROW PANEL ARE SET FORTH PER SUPPLEMENTAL SPECIFICATION 821.

WORK ZONE PAVEMENT MARKINGS AND MARKING REMOVAL

EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE COVERED AS PER CMS 614.11G.1.b. NON-REFLECTIVE, PREFORMED BLACKOUT TAPE SHALL COVER EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY WORK ZONE MARKINGS.

ALL WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVABLE TAPE (CMS 740.06 TYPE I). WORK ZONE DOTTED LINES, 3 FEET IN LENGTH SEPERATED BY 9 FOOT GAPS, SHALL BE PROVIDED TO IDENTIFY THE MERGE. WORK ZONE EDGE LINES SHALL BE PROVIDED ALONG THE TANGENT SECTION.

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 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 DISTRICT PERMITS SECTION (419)373-4301 OR BY EMAIL (d02.permits@dot.ohio.gov) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO) BY PHONE (419) 373-4428 OR EMAIL (d02.pio@dot.ohio.gov) 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.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO 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.

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

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

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

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

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

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

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

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

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

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	24 HOURS

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

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

CALCULATED JET CHECKED DAR

MAINTENANCE OF TRAFFIC GENERAL NOTES

SAN-6-15.30

SHEET NUM.														PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	12	16	17	18	19							01/NHS/OT						
																			ROADWAY	
LS														LS	201	11000	LS		CLEARING AND GRUBBING	
				3,074										3,074	202	23000	3,074	SY	PAVEMENT REMOVED	
				2,413										2,413	202	38000	2,413	FT	GUARDRAIL REMOVED	
				5										5	202	47000	5	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					19,362									19,362	203	10000	19,362	CY	EXCAVATION	
					25,473									25,473	203	20000	25,473	CY	EMBANKMENT	
					3,109									3,109	203	35001	3,109	CY	GRANULAR EMBANKMENT, AS PER PLAN	5
					765									765	203	35110	765	CY	GRANULAR MATERIAL, TYPE B	
					2,075									2,075	203	35130	2,075	CY	GRANULAR MATERIAL, TYPE D	
					7,185									7,185	203	40000	7,185	CY	BORROW	
				3,207										3,207	204	10000	3,207	SY	SUBGRADE COMPACTION	
				2,413										2,413	606	15101	2,413	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	5
				2										2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				2										2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
					LS									LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																			EROSION CONTROL	
					1,275									1,275	801	21060	1,275	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
7					105									112	659	35000	112	MGAL	WATER	
3														3	659	00100	3	EACH	SOIL ANALYSIS TEST	
2,159				238										2,397	659	00300	2,397	CY	TOPSOIL	
					19,334									19,334	659	10000	19,334	SY	SEEDING AND MULCHING	
		967												967	659	14000	967	SY	REPAIR SEEDING AND MULCHING	
		967												967	659	15000	967	SY	INTER-SEEDING	
1.7					1.74									3.44	659	20000	3.44	TON	COMMERCIAL FERTILIZER	
4														4	659	31000	4	ACRE	LIME	
					14,613									14,613	SPECIAL	69012010	14,613	SY	GEOTEXTILE FABRIC, 712.09, TYPE A	5
							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	
						14,000								14,000	832	30000	14,000	EACH	EROSION CONTROL	
																			DRAINAGE	
					2,176									2,176	605	11110	2,176	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	16													16	605	13300	16	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
					4,351									4,351	611	01401	4,351	FT	6" CONDUIT, TYPE E, AS PER PLAN, PERFORATED	5
	20				484									504	611	01501	504	FT	6" CONDUIT, TYPE F, AS PER PLAN, NON-PERFORATED	5
					18									18	611	99710	18	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																			PAVEMENT	
80														80	255	10010	80	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1	
				571										571	301	46000	571	CY	ASPHALT CONCRETE BASE, PG64-22	
				535										535	304	20000	535	CY	AGGREGATE BASE	
				1,268										1,268	407	20000	1,268	GAL	NON-TRACKING TACK COAT	
			320											320	408	10000	320	GAL	PRIME COAT	
				515										515	442	10500	515	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448)	
				125										125	442	20100	125	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448)	
				2,309										2,309	609	12001	2,309	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	3
				2										2	618	40600	2	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
600														600	875	10000	600	LB	LONGITUDINAL JOINT ADHESIVE	
																			TRAFFIC CONTROL	
			3											3	630	85100	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			4											4	630	86010	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
						4								4	642	00104	4	MILE	EDGE LINE, 6", TYPE 1	
						2								2	642	00204	2	MILE	LANE LINE, 6", TYPE 1	
						433								433	642	01510	433	FT	DOTTED LINE, 6", TYPE 1	
						195								195	644	00700	195	FT	TRANSVERSE/DIAGONAL LINE, YELLOW	
						345								345	644	00720	345	FT	CHEVRON MARKING, TYPE 1	
						1,368								1,368	644	00404	1,368	FT	CHANNELIZING LINE, 12", WHITE	

CALCULATED JTP
CHECKED DAR

GENERAL SUMMARY

SAN-6-15.30

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	12	16	17	18	19						01/NHS/OT						
																		MAINTENANCE OF TRAFFIC	
		24											24	614	11110	24	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			1										1	SPECIAL	61411300	1	EACH	WORK ZONE TRAFFIC SIGNAL	7
						2							2	614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		5											5	614	12500	5	EACH	REPLACEMENT SIGN	
		8											8	614	12600	8	EACH	REPLACEMENT DRUM	
		2											2	SPECIAL	61412760	2	EACH	FLASHING ARROW PANEL	7
				50									50	614	13318	50	EACH	BARRIER REFLECTOR, TYPE 5, BIDIRECTIONAL	
			86										86	615	20001	86	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	18
		3											3	616	10000	3	MGAL	WATER	
		3,350											3,350	623	41100	3,350	FT	PORTABLE BARRIER, UNANCHORED	
																		INCIDENTALS	
		LS											LS	614	11001	LS		MAINTAINING TRAFFIC, AS PER PLAN	7
LS													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
LS													LS	624	10000	LS		MOBILIZATION	

CALCULATED JTP
CHECKED DAR

GENERAL SUMMARY

SAN-6-15.30

15
49

REF NO.	SHEET NO.	STATION TO STATION					202 GUARDRAIL REMOVED	202 BRIDGE TERMINAL ASSEMBLY REMOVED		SPECIAL , TYPE MOS WITH LONG POSTS, AS PER PLAN	SPECIAL E TERMINAL ASSEMBLY, TYPE 1	SPECIAL E TERMINAL ASSEMBLY, TYPE 2		626 BARRIER REFLECTOR, TYPE 5, BIDERECTIONAL
							FT	EACH		FT	EACH	EACH		EACH
GR-1	16-17	1+75.00	RT	TO	9+16.53	RT	725	1		725	1			15
GR-2	17-19	11+41.44	RT	TO	22+03.53	RT	1037.5	2		1037.5	1	1		21
GR-3	17-19	100+93.76	LT	TO	107+34.16	LT	650.0	2		650.0		1		14
TOTALS CARRIED TO GENERAL SUMMARY							2413	5		2413	2	2		50

STA RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	442 ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), 1.5"	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), 1.75"	SPECIAL ONCRETE BASE, PG64-22, 8"	304 AGGREGATE BASE, 6"	407 NON-TRACKING TACK COAT	204 SUBGRADE COMPACTION	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	609 COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	202 PAVEMENT REMOVED	
					FT	FT	SY	SY	CY	CY	CY	CY	GAL	SY	MILE	FT	SY	
2+00.00	TO	8+91.88	B	RT	691.88	12.00	922.51	925.58	32.03	37.37	170.83	160.16	130.69	960.94		691.88	925.58	
11+66.73		21+78.50	A	RT	1011.77	12.00	1349.03	1340.66	46.84	54.65	249.82	234.21	191.11	1405.24		1011.77	1340.66	
101+00.00		107+05.08	A	LT	605.08	12.00	806.77	806.77	28.01	32.68	149.40	140.06	114.29	840.39		605.08	806.77	
530+20.00		542+60.62	B	RT	1240.615	27.00	3721.84	4889.40	203.73				415.60		0.61			
11+66.73		21+78.50	A	RT	1011.77	27.00	3035.31	3077.66	128.24				261.60		0.38			
101+00.00		107+05.08	A	LT	605.08	27.00	1815.24	1815.24	75.64				154.30		0.23			
SUBTOTALS									514.48	124.70	570.06	534.43	1267.59	3206.51	1.23	2308.73	3073.01	
TOTALS CARRIED TO GENERAL SUMMARY									515	125	571	535	1268	3207	2	2309	3074	

CALCULATED JTP
CHECKED DAR

GAURDRAIL SUBSUMMARY

SAN-6-15.30

REF NO.	SHEET NO.	STATION TO STATION			203 EXCAVATION CY	203 EMBANKMENT CY	203 GRANULAR EMBANKMENT, AS PER PLAN CY	203 GRANULAR MATERIAL, TYPE D CY	203 GRANULAR MATERIAL, TYPE B CY	659 SEEDING AND MULCHING SY	659 COMMERCIAL FERTILIZER TON	659 WATER MGAL		605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	611 6" CONDUIT, TYPE E, AS PER PLAN, PERFORATED FT	611 6" CONDUIT, TYPE F, AS PER PLAN, NON-PERFORATED FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH	601 TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT SY	SPECIAL GEOTEXTILE FABRIC, 712.09, TYPE A SY	203 BORROW CY	878 INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS LS				
		EASTBOUND																							
	25	2+00.00	TO	2+50.00	154	192	26	22	8	174	0.016	0.94				47.43	2	126.9103	129						
	25	2+50.00	TO	3+00.00	318	389	52	45	16	350	0.031	1.89		50	100				259						
	25-26	3+00.00	TO	3+50.00	335	404	53	45	16	359	0.032	1.94		50	100				262						
	26	3+50.00	TO	4+00.00	351	429	55	45	16	378	0.034	2.04		50	100				269						
	26	4+00.00	TO	4+50.00	385	455	59	45	16	403	0.036	2.18		50	100				286						
	26-27	4+50.00	TO	5+00.00	431	502	64	45	16	421	0.038	2.28		50	100				309						
	27	5+00.00	TO	5+50.00	478	588	69	45	16	431	0.039	2.33		50	100	59.974	2	141.3242	332						
	27	5+50.00	TO	6+00.00	539	687	73	45	16	451	0.041	2.44		50	100				348						
	27-28	6+00.00	TO	6+50.00	551	730	76	45	16	469	0.042	2.53		50	100				354						
	28	6+50.00	TO	7+00.00	529	702	78	45	16	474	0.043	2.56		50	100				358						
	28	7+00.00	TO	7+50.00	554	692	81	45	16	480	0.043	2.59		50	100				373						
	28-29	7+50.00	TO	8+00.00	575	748	86	45	16	486	0.044	2.63		50	100				396						
	29	8+00.00	TO	8+50.00	641	760	91	45	16	518	0.047	2.80		50	100	61.505	2	190.3372	415						
	29	8+50.00	TO	9+00.00	721	707	93	45	16	530	0.048	2.86		50	100				423						
	29-30	9+00.00	TO	9+16.53	121	113	15	7	3	85	0.008	0.46							70						
	30-31	9+16.53	TO	11+50.00																					
	31	11+50.00	TO	12+00.00	344	340	43	22	8	242	0.022	1.31							198						
	31-32	12+00.00	TO	12+50.00	598	680	87	45	16	482	0.043	2.60		50	100				396						
	32	12+50.00	TO	13+00.00	460	674	88	45	16	479	0.043	2.58		50	100				400						
	32-33	13+00.00	TO	13+50.00	423	672	89	45	16	478	0.043	2.58		50	100	58.052	2	156.3068	405						
	33	13+50.00	TO	14+00.00	432	669	87	45	16	474	0.043	2.56		50	100				396						
	33-34	14+00.00	TO	14+50.00	434	653	83	45	16	466	0.042	2.52		50	100				380						
	34	14+50.00	TO	15+00.00	405	609	78	45	16	458	0.041	2.47		50	100				359						
	34-35	15+00.00	TO	15+50.00	379	574	71	45	16	449	0.040	2.42		50	100				335						
	35	15+50.00	TO	16+00.00	378	558	67	45	16	436	0.039	2.36		50	100				318						
	35-36	16+00.00	TO	16+50.00	375	542	66	45	16	422	0.038	2.28		50	100				314						
	36	16+50.00	TO	17+00.00	354	512	65	45	16	407	0.037	2.20		50	100				308						
	36-37	17+00.00	TO	17+50.00	336	496	62	45	16	393	0.035	2.12		50	100	51.557	2	132.0515	297						
	37	17+50.00	TO	18+00.00	351	508	62	45	16	378	0.034	2.04		50	100				297						
	37-38	18+00.00	TO	18+50.00	357	492	65	45	16	359	0.032	1.94		50	100				308						
	38	18+50.00	TO	19+00.00	368	495	67	45	16	356	0.032	1.92		50	100				318						
	38-39	19+00.00	TO	19+50.00	408	618	69	45	16	411	0.037	2.22		50	100	57.088	2	165.3484	326						
	39	19+50.00	TO	20+00.00	422	720	69	45	16	466	0.042	2.52		50	100				326						
	39-40	20+00.00	TO	20+50.00	413	665	67	45	16	466	0.042	2.52		50	100				317						
	40	20+50.00	TO	21+00.00	397	603	65	45	16	448	0.040	2.42		50	100				308						
	40-41	21+00.00	TO	21+50.00	440	552	62	45	16	428	0.038	2.31		50	100				299						
	41	21+50.00	TO	22+00.00	534	517	60	45	16	411	0.037	2.22		25.25	50.5	48.792	2	125.6103	291						
	41-42	22+00.00	TO	22+50.00	282	260	30	22	8	202	0.018	1.09							10						
		WESTBOUND																							
	43	101+00.00	TO	101+50.00	151	235	30	22	8	191	0.017	1.03							144						
	43-44	101+50.00	TO	102+00.00	300	463	59	45	16	376	0.034	2.03		50	100				284						
	44	102+00.00	TO	102+50.00	286	456	57	45	16	377	0.034	2.04		50	100				277						
	44-45	102+50.00	TO	103+00.00	274	445	55	45	16	380	0.034	2.05		50	100				268						
	45	103+00.00	TO	103+50.00	284	432	52	45	16	364	0.033	1.96		50	100				258						
	45-46	103+50.00	TO	104+00.00	292	412	49	45	16	346	0.031	1.87		50	100	47.278	2	103.5537	246						
	46	104+00.00	TO	104+50.00	270	361	48	45	16	329	0.030	1.78		50	100				243						
	46-47	104+50.00	TO	105+00.00	281	333	49	45	16	314	0.028	1.70		50	100				247						
	47	105+00.00	TO	105+50.00	315	340	50	45	16	308	0.028	1.66		50	100				249						
	47-48	105+50.00	TO	106+00.00	343	384	53	45	16	321	0.029	1.74		50	100				260						
	48	106+00.00	TO	106+50.00	368	452	57	45	16	375	0.034	2.02		50	100				276						
	48-49	106+50.00	TO	107+00.00	458	497	58	45	16	411	0.037	2.22		50	100	51.946	2	132.7384	283						
	49	107+00.00	TO	107+30.12	165	155	18	13	5	123	0.011	0.67							86						
TOTALS CARRIED TO GENERAL SUMMARY					19362	25473	3109	2075	765	19334	1.740	104.40		2176	4351	484	18	1275	14613	7185	LS				

CALCULATED JET
CHECKED DAR

EARTHWORK SUBSUMMARY

SAN-6-15.30

LEGEND

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1, 20 FEET WIDE

FULL DEPTH PAVEMENT REPLACEMENT

ASPH CONC SURF, 9.5, TYPE A (448)

807 808 809 810 811 812

CHANNELIZING LINE

EDGE LINE YELLOW

CHEVRON

806 807 808 809 810 811

YELLOW TRANSVERSE LINES

EDGE LINE YELLOW

535 536 537 538 540

1 2 3 4 5 6

GR-1

TIE INTO EX. GAURDRAIL

EDGE LINE WHITE

Ex LA-R/W

Ex LA-R/W

Ex LA-

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED JET
CHECKED DAR

PLAN VIEW
STA. 2+00.00 TO STA. 6+81.20

SAN-6-15.30

20
49

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LEGEND

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1, 20 FEET WIDE

FULL DEPTH PAVEMENT REPLACEMENT

ASPH CONC SURF, 9.5mm, TYPE A (448)

WETLAND LOCATION (DND) UNLESS MARKED IMPACTED

WETLAND LOCATION IMPACTED AREA

WETLAND 9 (DND)

WETLAND 4 (DND)

WETLAND 5 (DND)

WETLAND 6 (DND)

WETLAND 7 (DND)

Ex LA R/W

Ex RR

CHEVRON

CHANNELIZING LINE

PI Sta. 9+16.53

EDGE LINE YELLOW

PI Sta. 11+41.44

BRIDGE TERMINAL ASSEMBLY, TYPE 1

DASHED CENTER LINE

EDGE LINE WHITE

BRIDGE TERMINAL ASSEMBLY, TYPE 2

PT Sta. 8+80.33

GR-1

GR-2

WETLAND 1 (DND)

PRECAST REINFORCED CONCRETE OUTLET

WETLAND 2 (IMPACTED AREA= 0.03 ACRES)

WETLAND 2 (DND)

HORIZONTAL SCALE IN FEET

0 10 20 40

CALCULATED JET

CHECKED DAR

PLAN VIEW

STA. 7+54.40 TO STA. 13+50.70

SAN-6-15.30

21
49

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LEGEND

ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1, 20 FEET WIDE

ASPH CONC SURF, 9.5mm, TYPE A (448)

FULL DEPTH PAVEMENT REPLACEMENT

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED JET
CHECKED DAR

Ex LA-R/W

POT Sta. 100+00.00

DASHED CENTER LINE

EDGE LINE WHITE

TIE INTO EX. GAURDRAIL

GR-3

PRECAST REINFORCED CONCRETE OUTLET

EDGE LINE YELLOW

GR-2

PRECAST REINFORCED CONCRETE OUTLET

PLAN VIEW
STA. 13+49.30 TO STA. 19+47.00
SAN-6-15.30

PROJECT DESCRIPTION
REPAIR OF APPROXIMATELY 2145 FEET OF FAILED 2:1 EMBANKMENT. RECONSTRUCT THE SLOPE WITH WELL-COMPACTED FILL AND A STABLE SLOPE ANGLE. INCORPORATE GROUNDWATER DRAINAGE TO ALLEVIATE PORE WATER PRESSURE IN THE SLOPE SOILS.

LEGEND

- ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1, 20 FEET WIDE
- ASPH CONC SURF, 9.5mm, TYPE A (448)
- WETLAND LOCATION IMPACTED AREA
- FULL DEPTH PAVEMENT REPLACEMENT
- WETLAND LOCATION (DND) UNLESS MARKED IMPACTED

WETLAND 8 (DND)

Ex LA-R/W

PRECAST REINFORCED CONCRETE OUTLET

POT Sta. 107+50.00

GR-3

BRIDGE TERMINAL ASSEMBLY, TYPE 2

105 106 107

EDGE LINE WHITE

EDGE LINE YELLOW

DASHED CENTER LINE

POT Sta. 22+03.53

825 826 827 828 829 830

20 21 22

GR-2

BRIDGE TERMINAL ASSEMBLY, TYPE 1

PRECAST REINFORCED CONCRETE OUTLET

WETLAND 3 (IMPACTED AREA = 0.08 ACRES)

WETLAND 3 (DND)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED JET
CHECKED DAR

PLAN VIEW
STA. 19+47.02 TO STA. 22+00.00

SAN-6-15.30

23
49

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