

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SUM-271-7.18

BOSTON TOWNSHIP

SUMMIT COUNTY

PROJECT DESCRIPTION

IMPROVEMENT OF 0.10 MILES ALONG WESTBOUND I-271 FOR SLOPE CORRECTION AND CULVERT EXTENSION AND SLIP LINING BY REVISING THE SLOPE WITH A 2.5:1 GRADE, A MINIMUM 30' BENCH AND A 3.5:1 GRADE. SHOULDER RECONSTRUCTION AND GUARDRAIL IMPROVEMENT ARE INCLUDED.

LIMITED ACCESS

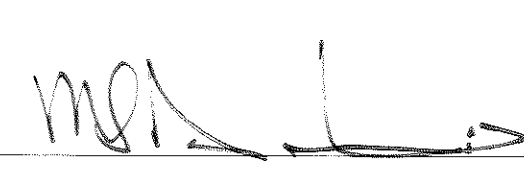
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

1997 SPECIFICATIONS

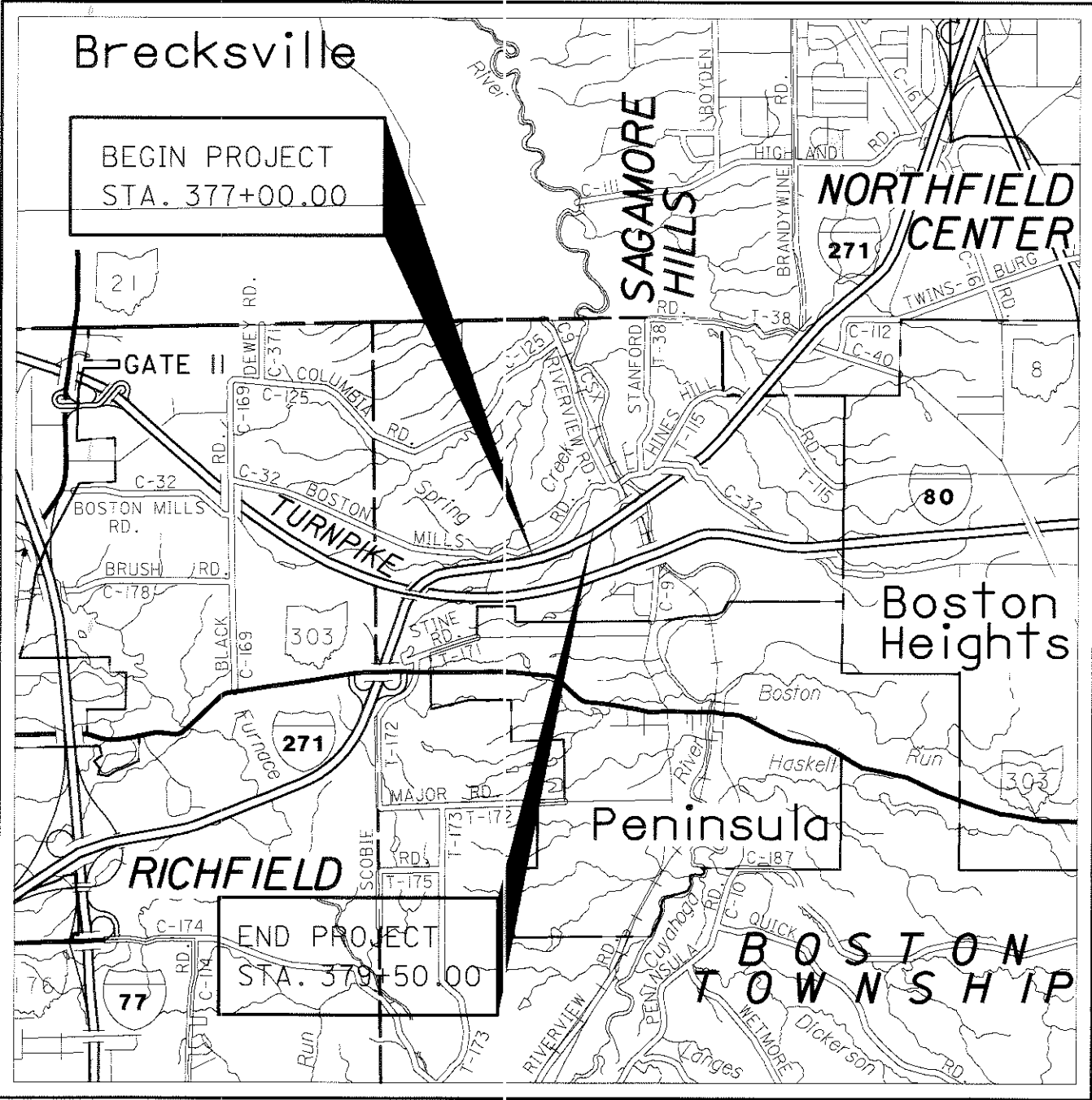
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

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.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (I) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED 
DATE 1-2-02 DISTRICT DEPUTY DIRECTOR

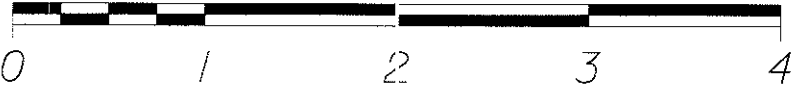
APPROVED 
DATE 1/22/02 DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: N41°25'00" LONGITUDE: W81°32'25"

SCALE IN MILES



PORTION TO BE IMPROVED -----
INTERSTATE & DIVIDED HIGHWAY -----
UNDIVIDED STATE & FEDERAL ROUTES -----
OTHER ROADS -----

DESIGN DESIGNATION

CURRENT ADT (1997) -----
DESIGN YEAR ADT (2017) -----
DESIGN HOURLY VOLUME (2017) -----
DIRECTIONAL DISTRIBUTION -----
TRUCKS (24 HOUR B&C) -----
DESIGN SPEED -----
LEGAL SPEED -----

DESIGN FUNCTIONAL CLASSIFICATION -
RURAL INTERSTATE

DESIGN EXCEPTIONS

NONE

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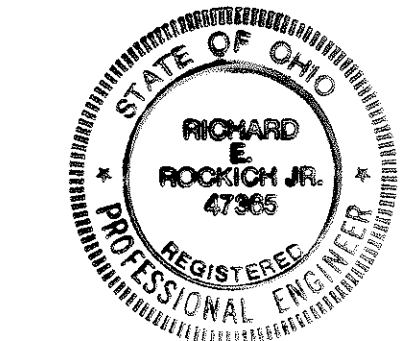
UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

TRANSYSTEMS
CORPORATION

55 PUBLIC SQUARE, SUITE 1650
CLEVELAND, OHIO 44113-1901

ENGINEERS SEAL:



SIGNED: 
DATE: 10-18-01

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.1	7/28/00	DM-4.4	7/20/01	806	9/9/97	US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NO. 3 10/09/01
BP-2.2	7/28/00			814	6/2/98	
BP-3.1	7/28/00	MT-101.20M	3/01/96	837	3/9/99	
BP-8.1	7/28/00			842	1/6/99	
				851	6/6/00	
F-1.1	7/28/00	TC-65.10M	11/01/95	870	3/27/01	
F-3.4	7/28/00	TC-65.11M	11/01/95	877	4/13/99	
				899	10/21/98	
GR-1.1M	10/21/97			905	4/1/98	
GR-1.2M	1/3/96			906	5/5/98	
GR-2.1M	4/14/98			907	10/21/98	
				908	11/7/00	
HW-2.2	7/20/01			932	10/2/96	
				1082	1/11/00	
DM-1.1	7/20/01					
DM-1.2	7/20/01					

FEDERAL PROJECT NO.

PID NO.

21069

CONSTRUCTION PROJECT NO.

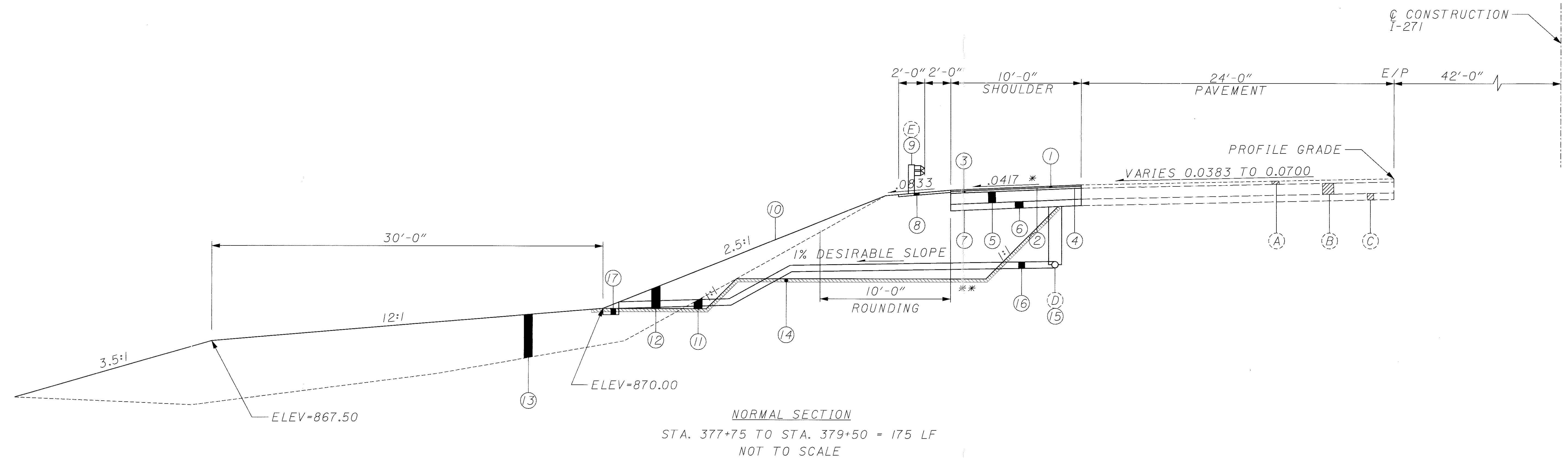
RAILROAD INVOLVEMENT

NONE

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23

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028011
DIST 04
PID# 21069
07/17/02

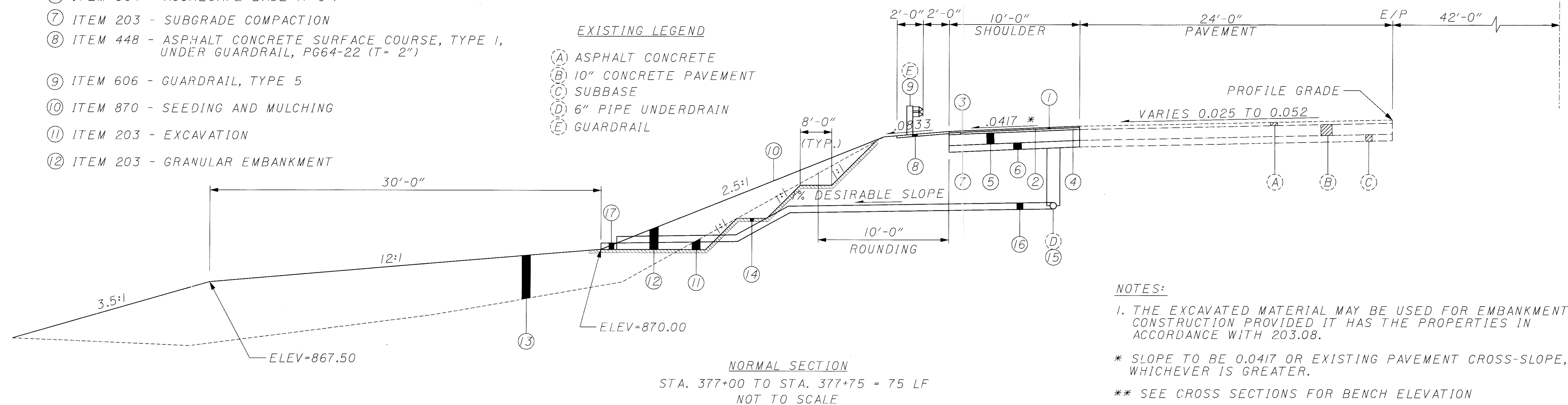


PROPOSED LEGEND

- ① ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-28 (T= 1 1/4")
- ② ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
- ③ ITEM 448 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28 (T= 1 3/4")
- ④ ITEM 407 - TACK COAT
- ⑤ ITEM 451 - REINFORCED CONCRETE PAVEMENT (T=10")
- ⑥ ITEM 304 - AGGREGATE BASE (T=6")
- ⑦ ITEM 203 - SUBGRADE COMPACTION
- ⑧ ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE I, UNDER GUARDRAIL, PG64-22 (T= 2")
- ⑨ ITEM 606 - GUARDRAIL, TYPE 5
- ⑩ ITEM 870 - SEEDING AND MULCHING
- ⑪ ITEM 203 - EXCAVATION
- ⑫ ITEM 203 - GRANULAR EMBANKMENT
- ⑬ ITEM 203 - EMBANKMENT
- ⑭ ITEM 605 - UNDERDRAIN MISCELLANEOUS: DRAINAGE CONNECTION, AS PER PLAN
- ⑮ ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN
- ⑯ ITEM 603 - 6" CONDUIT, TYPE F
- ⑰ ITEM 604 - PRECAST REINFORCED CONCRETE OUTLET

EXISTING LEGEND

- (A) ASPHALT CONCRETE
- (B) 10" CONCRETE PAVEMENT
- (C) SUBBASE
- (D) 6" PIPE UNDERDRAIN
- (E) GUARDRAIL



NOTES:

1. THE EXCAVATED MATERIAL MAY BE USED FOR EMBANKMENT CONSTRUCTION PROVIDED IT HAS THE PROPERTIES IN ACCORDANCE WITH 203.08.

* SLOPE TO BE 0.0417 OR EXISTING PAVEMENT CROSS-SLOPE, WHICHEVER IS GREATER.

** SEE CROSS SECTIONS FOR BENCH ELEVATION

GENERAL NOTES

ROUNDING

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

UTILITIES

THERE ARE NO KNOWN UNDERGROUND OR OVERHEAD UTILITIES WITHIN THE PROJECT CONSTRUCTION LIMITS.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM. (NAVD 1929)

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

THE CONTRACTOR SHALL CONSTRICT ALL OF HIS/HER ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, A REQUEST IN WRITING MUST BE SUBMITTED TO THE PROJECT ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO BEGINNING WORK, THE CONTRACTOR, SUPERINTENDENT OR HIS REPRESENTATIVE, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE. ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS DIRECTED BY THE PROJECT ENGINEER.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E 380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

CLEARING AND GRUBBING

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	28		28
30"	5		5
48"		1	1
60"	-	-	-

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. ALL OTHER SLOPED EMBANKMENT AREAS SHALL BE BENCHED AS SET FORTH IN 203.09. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.09.

ITEM 203 - PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER. A QUANTITY OF 1 HOUR HAS BEEN CARRIED TO THE GENERAL SUMMARY.

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 RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 203, LINEAR GRADING, AND PAVING UNDER THE GUARDRAIL USING 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG 64-22.

ITEM 203, LINEAR GRADING, SHALL CONSIST OF EXCAVATING TOPSOIL, PLACING GRANULAR MATERIAL AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 203.05.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 203.02 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 203, LINEAR GRADING.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

METHOD A: 1) SET GUARDRAIL POSTS

2) PLACE ITEM 448

METHOD B: 1) PLACE ITEM 448

2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)

3) SET GUARDRAIL POSTS

4) PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE A BITUMINOUS CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG 64-22.

SEEDING AND MULCHING

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

870, SEEDING AND MULCHING 9938 SY

870, SOIL ANALYSIS TEST 2 EACH

870, TOPSOIL 1103 CU. YD.

870, COMMERCIAL FERTILIZER 1.3 TON

870, AGRICULTURAL LIME 4.1 TON

870, WATER 53.7 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.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE PLACED BY THE CONTRACTOR WITH THE ENGINEER'S CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

877, TEMPORARY SEEDING AND MULCHING 1987.6 SQ. YD.

877, TEMPORARY SLOPE DRAINS 50 LIN. FT.

877, TEMPORARY DITCH PROTECTION 21 SQ. YD.

877, SEDIMENT REMOVAL 42 CU. YD.

601, ROCK CHANNEL PROTECTION, TYPE C WITH FILTER 33.6 CU. YD.

601, ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER 22.1 CU. YD.

870, COMMERCIAL FERTILIZER 0.09 TON

870, REPAIR SEEDING AND MULCHING 496.9 SQ. YD.

870, WATER 4.3 M. GAL.

870, INTER-SEEDING 496.9 SQ. YD.

ITEM 203 - GRANULAR EMBANKMENT

GRANULAR EMBANKMENT SHALL BE PLACED ABOVE ELEVATION 870.00 THROUGHOUT THE PROJECT LIMITS. BELOW ELEVATION 870.00 AND OUTSIDE THE PROJECT LIMITS, ITEM 203 EMBANKMENT SHALL BE USED.

GENERAL NOTES

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EROSION CONTROL

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.

STORM WATER POLLUTION PREVENTION PLAN

THE CONDITIONS OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT (SEE PROPOSAL) SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

INSTALLATION OF SEDIMENT BASINS/DAMS, PERIMETER FILTER FABRIC FENCE, AND DITCH CHECKS SHALL BE CONCURRENT WITH CLEARING AND GRUBEING AND/OR GRADING OPERATIONS.

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 45 DAYS SHOULD BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING, EROSION CONTROL MATTING OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

ADDITIONAL QUANTITIES OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL ITEMS ARE GIVEN IN THE GENERAL NOTES.

ITEM 603 - 6" CONDUIT, TYPE F

THE TYPE F CONDUIT IS BEING PLACED AT THE LOCATIONS NORMALLY PROVIDED BY AGGREGATE DRAINS AT 50' INTERVALS. THE LOCATIONS AND LENGTHS ARE AS FOLLOWS:

STA. 377+00	160' LT
STA. 377+50	160' LT
STA. 378+00	155' LT
STA. 378+50	155' LT
STA. 379+00	145' LT
STA. 379+50	140' LT
TOTAL	915 LF

THE FOLLOWING TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 603 - 6" CONDUIT, TYPE F 915 LIN FT

ITEM 604 - PRECAST REINFORCED CONCRETE OUTLET

THIS ITEM SHALL BE CONSTRUCTED AS SHOWN PER ODOT STANDARD CONSTRUCTION DRAWINGS DM-1.1 & DM-1.2.

THE FOLLOWING TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 604 - PRECAST REINFORCED CONCRETE OUTLET 6 EACH

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 203.05. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ALL MATERIALS REMOVED FROM DITCHES, STREAMS OR WETLANDS MUST BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E., SEEDED) TO PREVENT REDISTRIBUTION INTO WATERS OF THE UNITED STATES.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

ITEM SPECIAL, PIPE CLEANOUT 573 LIN. FT.

PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES SHALL BE MADE BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. THE STUB SHALL MEET THE REQUIREMENTS OF 707 AND HAVE A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THE FIELD WELDED JOINT, IF USED, SHALL BE THOROUGHLY CLEANED AND REGALVANIZED OR OTHERWISE SUITABLY REPAIRED. WELDING SHALL MEET THE REQUIREMENTS OF 863.23.

A MASONRY COLLAR, AS PER STANDARD DRAWING DM-1.1, WILL BE REQUIRED TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS PROVIDED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 603.

ITEM 407 - TACK COAT AND ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

407, TACK COAT 0.075 GAL. PER SQ. YARD

407, TACK COAT FOR INTERMEDIATE COURSE 0.04 GAL. PER SQ. YARD

ITEM 614 - MAINTAINING TRAFFIC

THE MAINTENANCE OF TRAFFIC IS CURRENTLY IN PLACE. TRAFFIC HAS BEEN SHIFTED TO THE LEFT, AWAY FROM THE SLOPE FAILURE, AND IS PROTECTED BY PORTABLE CONCRETE BARRIER. TWO LANES OF SOUTHBOUND TRAFFIC ARE MAINTAINED. ONCE CONSTRUCTION OF THE SHOULDER, SLOPE REPAIR, DRAINAGE FEATURES, GUARDRAIL, ETC. IS COMPLETED, THE CONTRACTOR SHALL REMOVE THE PORTABLE CONCRETE BARRIER AND TAKE IT TO THE SUMMIT GARAGE IN BOSTON HEIGHTS, OHIO. TRAFFIC WILL THEN BE SHIFTED TO MATCH THE TYPICAL SECTIONS AND TRAFFIC CONTROL PLANS.

IF FOR ANY REASON THE CONTRACTOR MUST CLOSE AN ADDITIONAL LANE DURING CONSTRUCTION, IT CANNOT BE DONE DURING PEAK HOURS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 605 - UNDERDRAIN MISCELLANEOUS: DRAINAGE CONNECTION, AS PER PLAN.

THE AGGREGATE BLANKET DRAIN SHALL CONSIST OF A 12 INCH THICK LAYER OF NO. 57 CRUSHED CARBONATE STONE AS SPECIFIED UNDER ODOT ITEM 703.01. NO. 57 STONE SHALL BE CAREFULLY PLACED OVER THE PREPARED SLOPE. COMPACTION OF THE NO. 57 STONE SHALL NOT BE REQUIRED. MEASUREMENT FOR THIS ITEM WILL BE MADE BY MEASURING IN-PLAN THICKNESS AND SURFACE AREA, OR BY RECORDING WEIGHT TICKETS OF ACCEPTABLE MATERIAL DELIVERED TO THE SITE, AND CONVERTING TO THE DESIGNATED PAY UNIT. ANY CONVERSION OF WEIGHT TO VOLUME SHOULD BE DETERMINED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE CONTRACT PRICE PER CUBIC YARD FOR ITEM 605 - UNDERDRAIN MISCELLANEOUS DRAINAGE CONNECTION, AS PER PLAN.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY; OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE L/A, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

CONSTRUCTION SEQUENCING

CONSTRUCTION OF THE SLOPE REPAIR SHALL ADHERE TO THE FOLLOWING SEQUENCING:

1. REMOVE THE SURFACE VEGETATION AND TOPSOIL FROM BENEATH THE AREA TO BE CUT AND FILLED.
2. CUT THE BENCHES IN THE EXISTING SLOPE BENEATH THE 3.5:1 AND 12:1 EMBANKMENTS.
3. CONSTRUCT THE EMBANKMENT FILLS.
4. COMPLETE THE REQUIRED EXCAVATION AND BENCH THE UPPER EMBANKMENT BELOW THE 2.5:1 SLOPE.
5. REMOVE THE EXISTING 6" PVC PIPE UNDERDRAIN, SHOULDER, GUARDRAIL AND PAVEMENT UNDERDRAIN.
6. PLACE THE BLANKET DRAIN.
7. CONSTRUCT NEW SHOULDER, GUARDRAIL, PAVEMENT UNDERDRAIN AND TYPE F CONDUIT.
8. CONSTRUCT THE 2.5:1 FILL.

TOPSOIL

TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE EXCAVATED OR FILLED, AND REDEPOSITED ON THE COMPLETED 3.5:1 EMBANKMENT SLOPE. TOPSOIL STRIPPING AND ANY STOCKPILING SHALL BE CONSIDERED INCIDENTAL TO AND PAID FOR UNDER ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION. PLACEMENT OF TOPSOIL SHALL BE CONSIDERED INCIDENTAL TO AND PAID FOR UNDER ITEM 203 - EMBANKMENT.

CALCULATED PF CHECKED EAF	GENERAL NOTES	SUM-271-7.18	5 23	<u>ITEM 837 - 42" LINER PIPE, 707.12, AS PER PLAN</u>
				DUE TO THE MINIMUM CLEARANCE BETWEEN THE EXISTING CULVERT AND THE PROPOSED LINER, AS WELL AS THE DEPTH OF COVER OVER THE EXISTING CONDUIT, THE LOW STRENGTH MORTAR WILL HAVE TO BE PLACED FROM THE INSIDE OF THE PROPOSED CULVERT LINER. TO ACCOMPLISH THIS WORK, THE 707.12 CONDUIT NEEDS TO BE FABRICATED WITH GROUT HOLES AT THE 12 O'CLOCK LOCATION.
				INTERNAL BANDS WILL NEED TO BE PROVIDED FOR THE GROUTING OPERATION AND SHALL BE REMOVED AFTER THE FLOWABLE MORTAR HAS BEEN SET.
				THE CONDUIT SHALL BE BRACED DURING THE GROUT OPERATION BY A METHOD APPROVED BY THE ENGINEER.
				THE LAST SIX INCHES OF GROUT OPERATION (THE CULVERT ENDS) SHALL BE CAPPED WITH ITEM 602 CONCRETE MASONRY.
				THE ABOVE WORK IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 837 42" LINER PIPE, 707.12, AS PER PLAN.
				ALL OTHER REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 837 APPLY.
				<u>STREAM CHANNEL EXCAVATION</u>
				THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS (I.E., FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN-OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION, AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS).
				<u>DEMOLITION DEBRIS</u>
				THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.
				<u>INSTREAM WORK</u>
				INSTREAM WORK WILL BE LIMITED WHERE PRACTICABLE AND ONLY CLEAN, NON-ERODIBLE MATERIAL WILL BE USED FOR FORDS, COFFERDAMS, OR OTHER EQUIPMENT ACCESS PADS. THIS TEMPORARY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED.
				<u>ENDANGERED SPECIES HABITAT</u>
				THIS PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS) AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THIS SPECIES. THE SUMMER ROOSTING HABITAT FOR THE INDIANA BAT CONSISTS OF LIVING OR DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES OR CAVITIES. THEREFORE, ANY UNAVOIDABLE CUTTING OF SUCH TREES WILL BE PERFORMED ONLY AFTER SEPTEMBER 15 AND BEFORE APRIL 15.

SHEET NUMBER											ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED H/B	CHECKED P/F
3	4	8	9	11	17	18	21											
															ROADWAY		GENERAL SUMMARY	
											201	11000	LUMP		CLEARING & GRUBBING			
				LUMP							202	11000	LUMP		STRUCTURE REMOVED			
		278									202	23000	278	SQ. YD.	PAVEMENT REMOVED			
				838							202	30700	838	LIN. FT.	CONCRETE BARRIER REMOVED			
				332							202	35100	332	LIN. FT.	PIPE REMOVED, 24" AND UNDER			
				250							202	38000	250	LIN. FT.	GUARDRAIL REMOVED			
							174				202	54101	174	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN	21		
	573										SPECIAL	20270100	573	LIN. FT.	PIPE CLEANOUT	4		
				469							202	75000	469	LIN. FT.	FENCE REMOVED			
						6235					203	12000	6235	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION			
						16850					203	20000	16850	CU. YD.	EMBANKMENT			
					9992						203	21000	9992	CU. YD.	EMBANKMENT USING GRANULAR MATERIAL			
1											203	45000	1	HOURL	PROOF ROLLING			
		278									203	50000	278	SQ. YD.	SUBGRADE COMPACTION			
		2.5									203	60000	2.5	STATION	LINEAR GRADING			
				250							606	13000	250	LIN. FT.	GUARDRAIL, TYPE 5			
				596							607	23000	596	LIN. FT.	FENCE, TYPE CLT			
															EROSION CONTROL			
33.6											601	32200	33.6	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER			
22			42								601	34200	64	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER			
2											870	00100	2	EACH	SOIL ANALYSIS TEST			
1103											870	00200	1103	CU. YD.	PLACING TOPSOIL			
						9938					870	10000	9938	SQ. YD.	SEEDING AND MULCHING			
497											870	14000	497	SQ. YD.	REPAIR SEEDING AND MULCHING			
497											870	15000	497	SQ. YD.	INTER-SEEDING			
1.4											870	20000	1.4	TON	COMMERCIAL FERTILIZER			
4.1											870	30000	4.1	TON	AGRICULTURAL LIME			
58.0											870	35000	58.0	M. GAL	WATER			
1987.6											877	10000	1987.6	SQ. YD.	TEMPORARY SEEDING AND MULCHING			
			553								877	30100	553	LIN. FT.	TEMPORARY PERIMETER FILTER FABRIC FENCE			
50											877	40000	50	LIN. FT.	TEMPORARY SLOPE DRAINS			
			168								877	50000	168	CU. YD.	TEMPORARY SEDIMENT BASINS AND DAMS			
21											877	55500	21	SQ. YD.	TEMPORARY DITCH PROTECTION			
42											877	60000	42	CU. YD.	SEDIMENT REMOVAL			
															DRAINAGE			
				0.82							602	20000	0.82	CU. YD.	CONCRETE MASONRY			
	915										603	01500	915	LIN. FT.	6" CONDUIT, TYPE F			
				103							603	19600	103	LIN. FT.	42" CONDUIT, TYPE C			
	6										604	36600	6	EACH	PRECAST REINFORCED CONCRETE OUTLET			
		250									605	11100	250	LIN. FT.	6" SHALLOW PIPE UNDERDRAIN			
		2093									605	98100	2093	CU. YD.	UNDERDRAIN MISC.: DRAINAGE CONNECTION, AS PER PLAN	4		
				573							837	10001	573	LIN. FT.	42" LINER PIPE, 707J2, AS PER PLAN	5		

[illegible]

[illegible]

ESTIMATED QUANTITIES					
LOCATION	SIDE	601	877	877	877
		ROCK CHANNEL PROTECTION TYPE C, WITHOUT FILTER	TEMPORARY PERIMETER FILTER FABRIC FENCE	TEMPORARY DITCH CHECK FILTER FABRIC FENCE	TEMPORARY SEDIMENT BASINS AND DAMS
		CY.	LF.	LF.	CY.
STA. 379+50 TO STA. 380+75	LT.	42			
STA. 376+00 TO STA. 381+00	LT.				168
STA. 376+50 TO STA. 380+92	LT.		553		
TOTALS		42	553		168

PROJECT DATA	
TOTAL AREA (RIGHT-OF-WAY)	2.51 AC.
AREA TO UNDERGO EXCAVATION, FILLING OR GRADING	10,210 SY.
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.30-0.60
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.30-0.60
SOIL DATA	N/A
IMMEDIATE RECEIVING WATERS	UNKNOWN CREEK
SUBSEQUENT RECEIVING WATERS	CUYAHOGA RIVER

LEGEND

- x — x — FILTER FABRIC FENCE
- ROCK CHANNEL PROTECTION

USGS QUADRANT:
NORTHFIELD, OHIO

LATITUDE ----- N 41° 25' 00"

LONGITUDE ----- W 81° 32' 25"

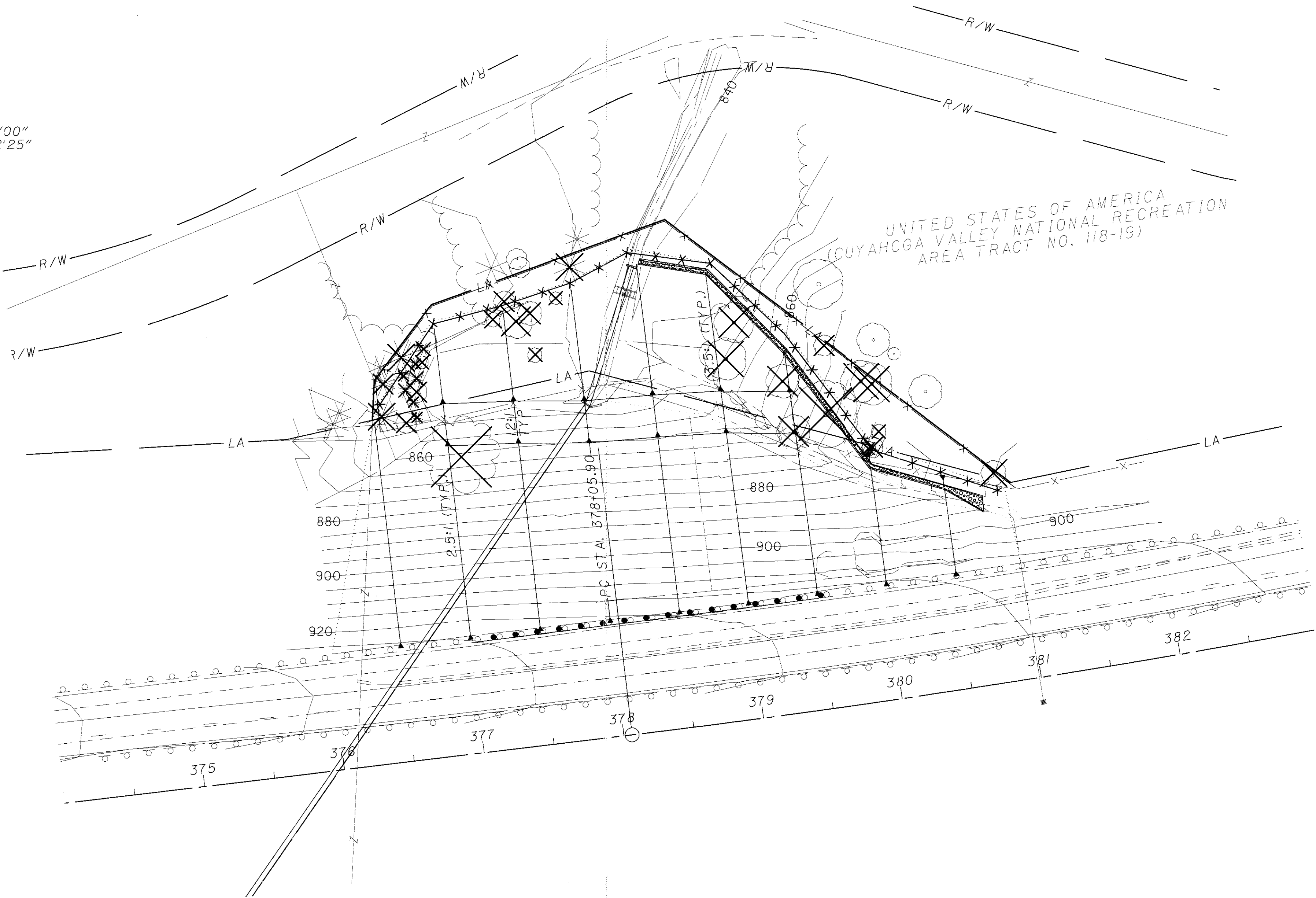
ITEM 877 - TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS

THE SEDIMENT BASIN QUANTITIES LISTED ON THIS STORM
WATER POLLUTION PREVENTION PLAN ARE THE STORAGE VOLUMES
REQUIRED FOR THE SEDIMENT BASIN.

THE PAY QUANTITY FOR EACH BASIN SHALL BE DETERMINED
AS THE ACTUAL AMOUNT OF EXCAVATION OR EMBANKMENT RE-
QUIRED TO PROVIDE THAT STORAGE VOLUME.

PROJECT DESCRIPTION:

IMPROVEMENT OF 0.10 MILES ALONG WESTBOUND I-271 FOR SLOPE
CORRECTION AND CULVERT EXTENSION AND SLIP LINING BY
REVISING THE SLOPE WITH A 2.5:1 GRADE, A MINIMUM 30' BENCH
AND A 3.5:1 GRADE. SHOULDER RECONSTRUCTION AND GUARDRAIL
IMPROVEMENT ARE INCLUDED.

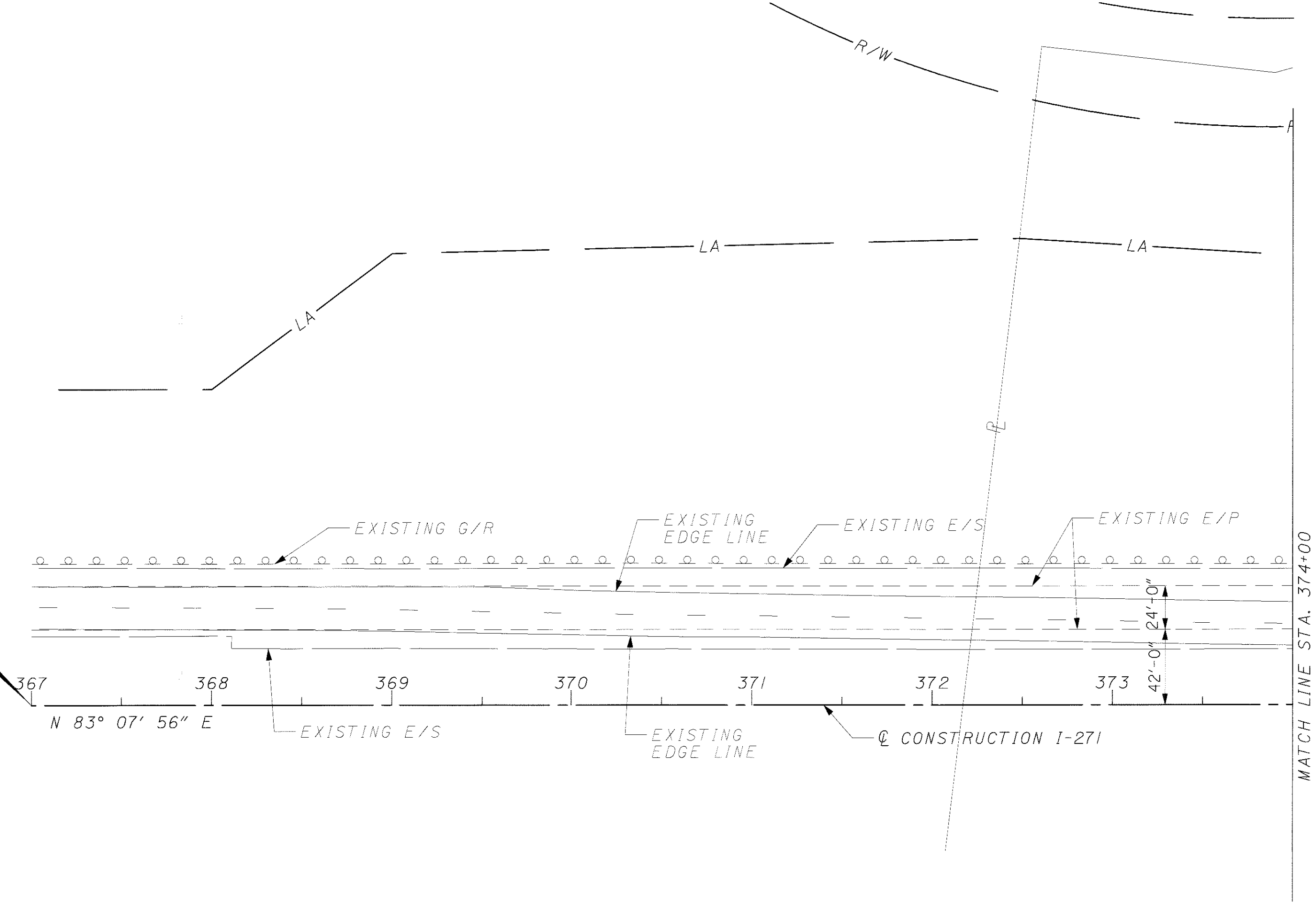
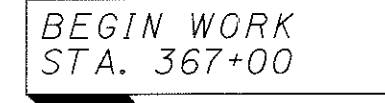
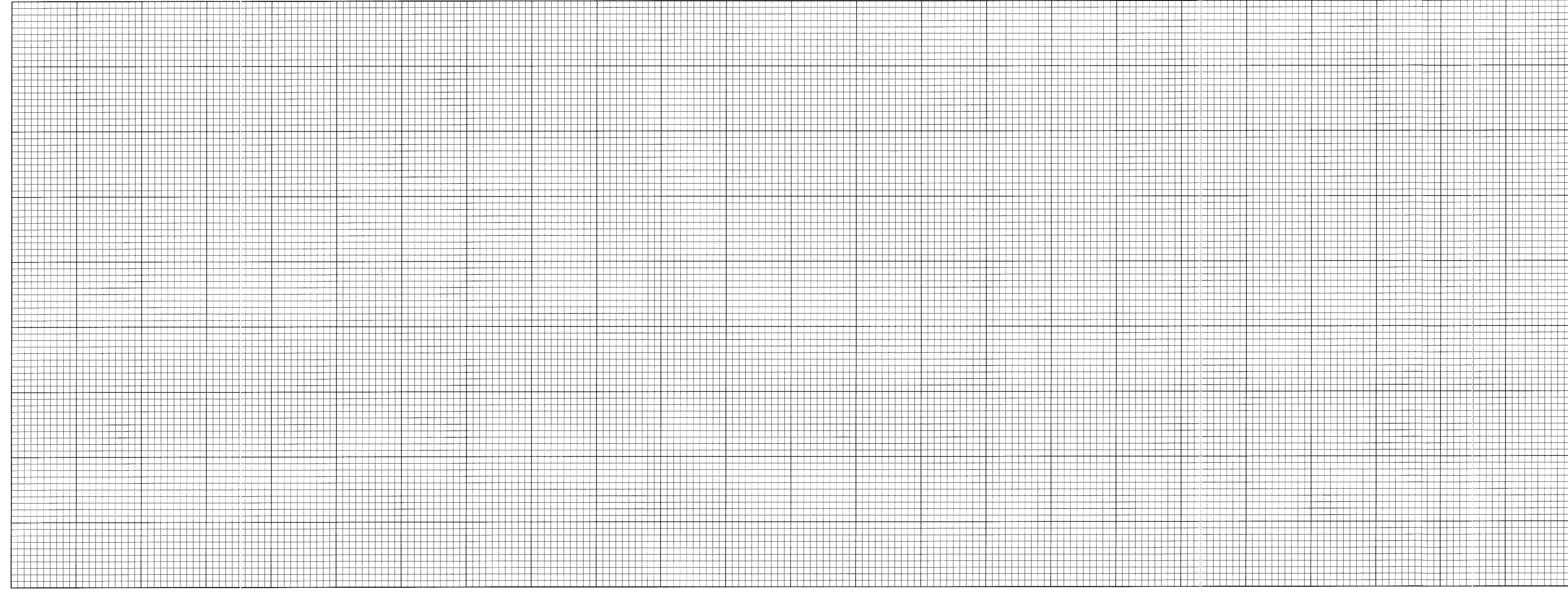


CALCULATED
DST
CHECKED
PF

STORM WATER POLLUTION PREVENTION PLAN

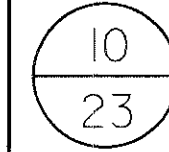
STA. 374+00 TO STA. 383+00

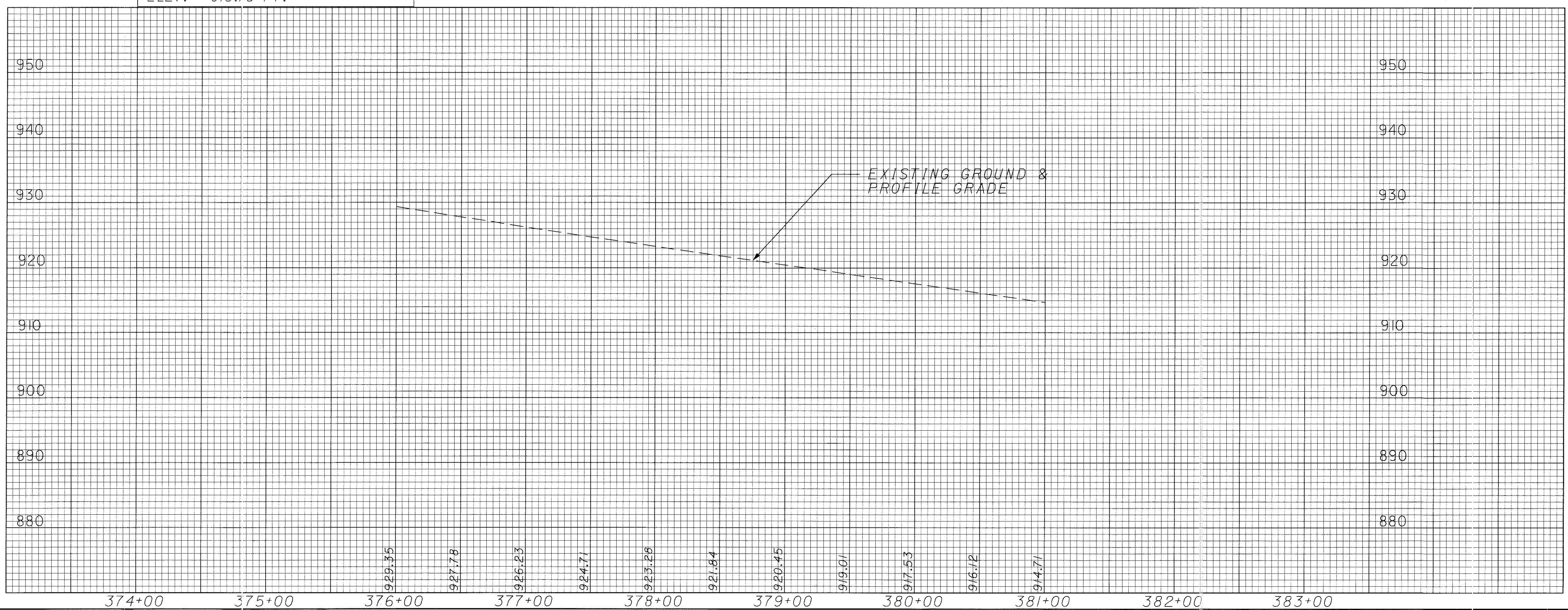
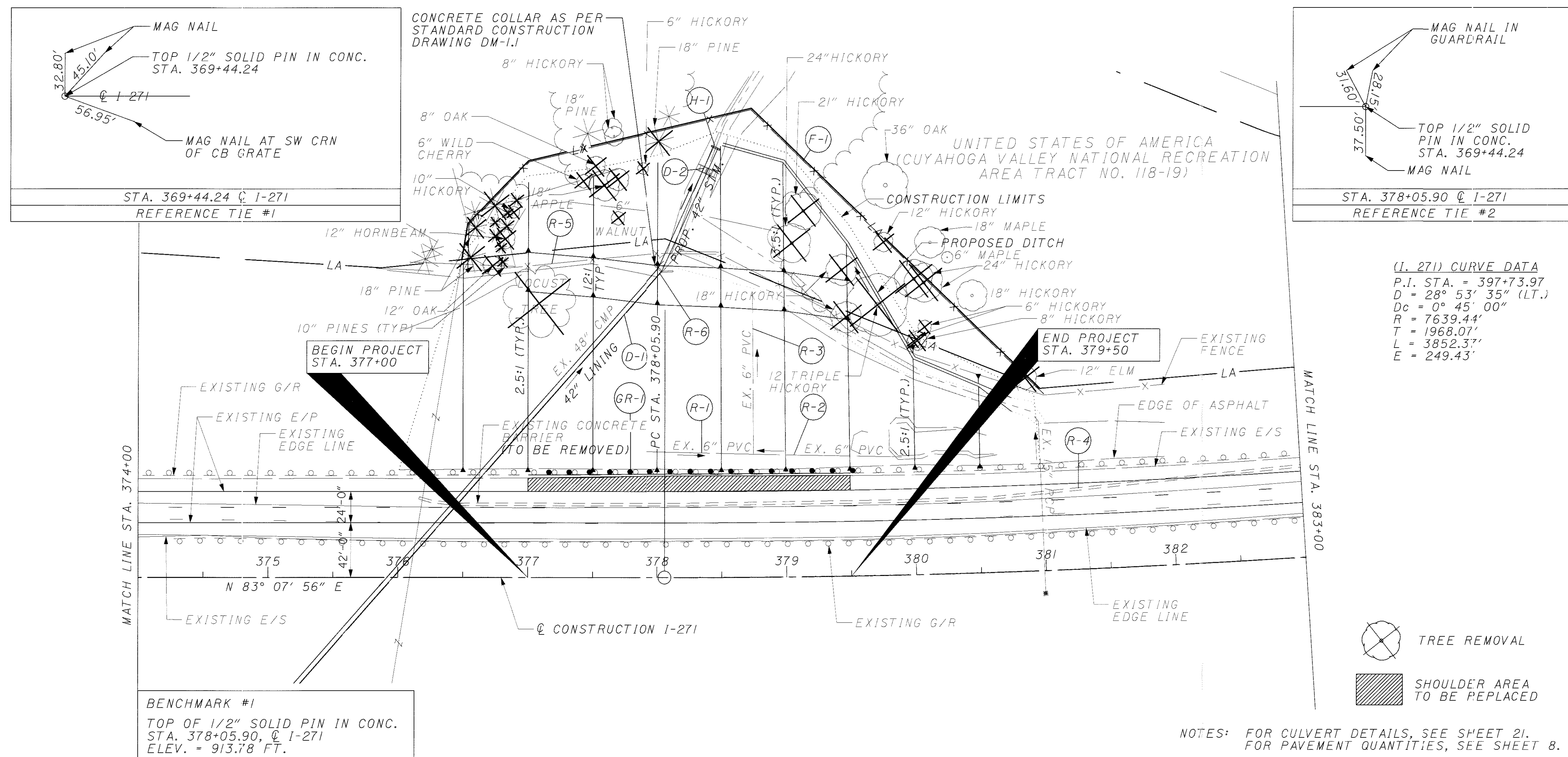
SUM-271-7.18

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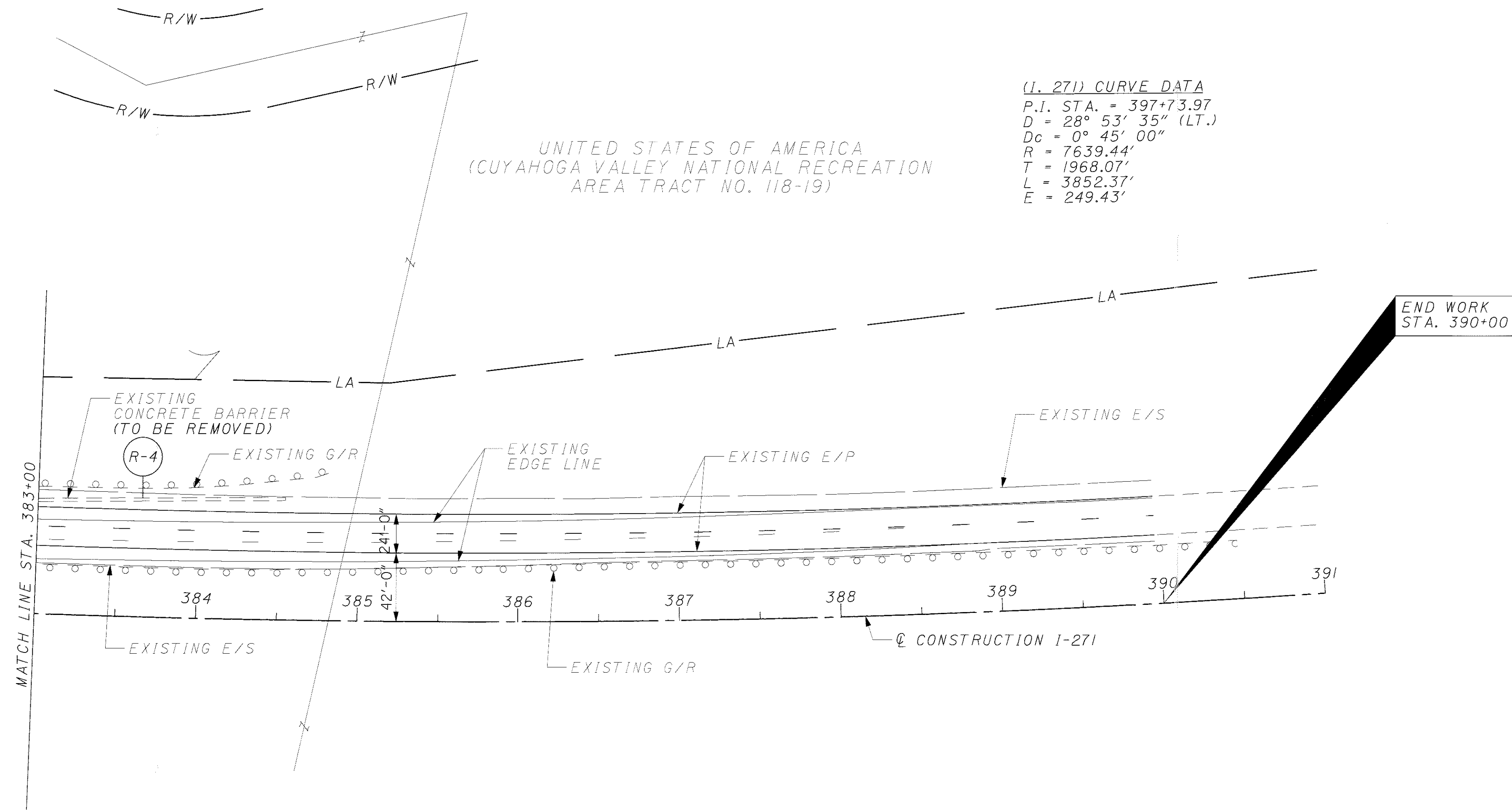
SUM-271-7.18

PLAN AND PROFILE
STA. 367+00 TO STA. 374+00





REF NO.	STATION		SIDE	202	202	202	202	602	603	606	607	626	837
	FROM	TO											
R-1	377+91.31	378+74.15	LT	PIPE REMOVED, 24" AND UNDER	CONCRETE BARRIER REMOVED	GUARD-RAIL REMOVED	FENCE REMOVED	STRUCTURE REMOVED	42" TYPE C CONDUIT	GUARDRAIL TYPE 5	FENCE TYPE CLT	BARRIER REFLECTOR, TYPE A	42" LINER PIPE, 707.16, AS PER PLAN
R-2	378+74.15	379+88.27	LT	83									
R-3	378+73.02	378+74.15	LT	114									
R-4	376+15.97	384+54.36	LT	125									
R-5	376+53.36	381+03.73	LT		838								
R-6		378+03.57	LT	10			469	LUMP					
D-1	374+21.96	378+03.57	LT/RT										
D-2	378+03.57	378+45.98	LT						103				573
H-1		378+45.98	LT						0.82				
GR-1	377+00.00	379+50.00	LT										
F-1	376+53.36	381+03.73	LT							250		3	
TOTALS CARRIED TO GENERAL SUMMARY				332	838	250	469	LUMP	103	250	596	3	573



NOTE: FOR BARRIER REMOVAL QUANTITY, SEE SHEET II.



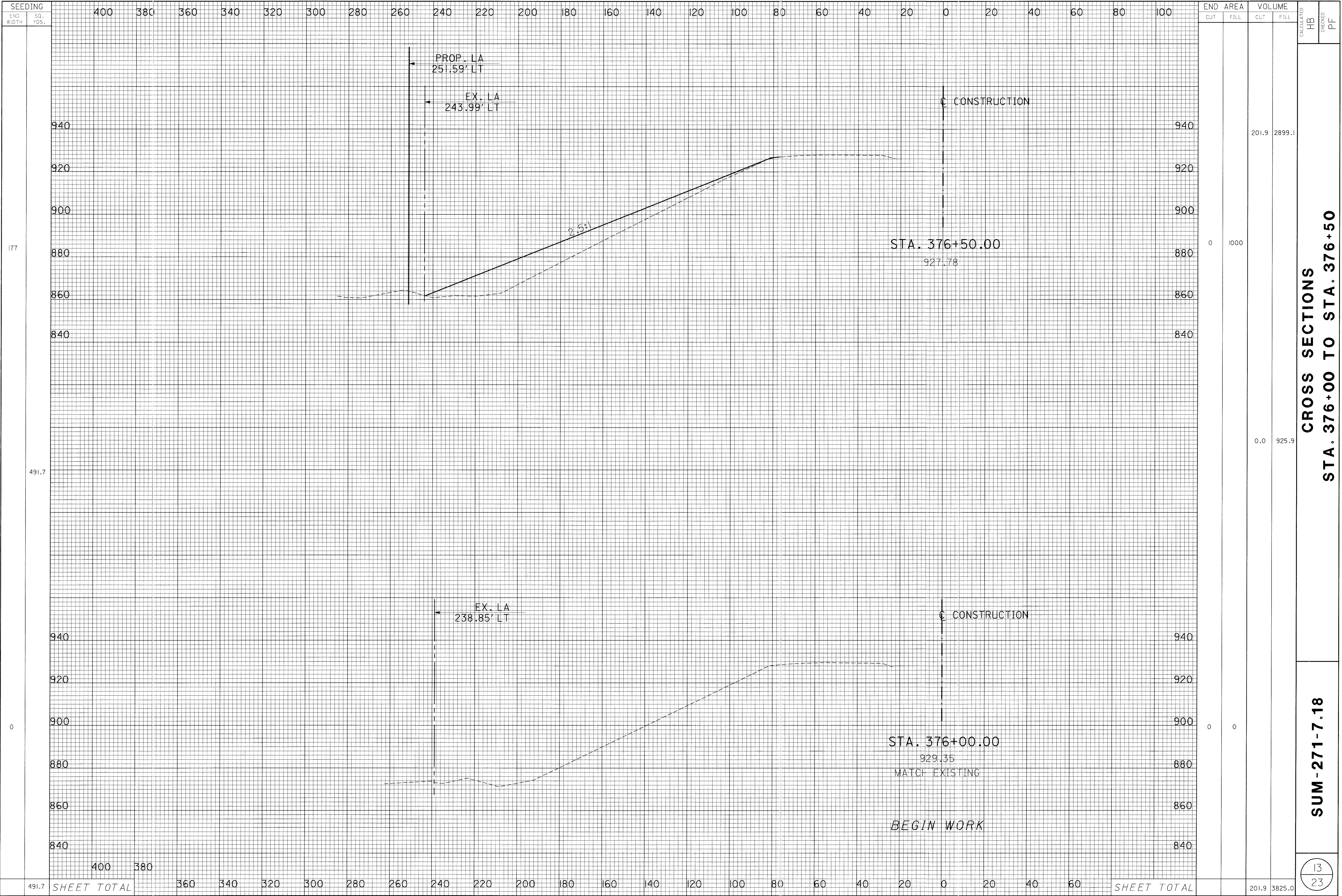
A horizontal scale bar with markings at 25, 50, and 100 feet. The scale is divided into segments: a black segment from 0 to 25, a white segment from 25 to 50, a black segment from 50 to 75, a white segment from 75 to 100, and a final black segment from 100 to 125.

CALCULATED <i>TJS</i>	CHECKED <i>PF</i>
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PLAN AND PROFILE
STA. 383+00 TO STA. 391+00

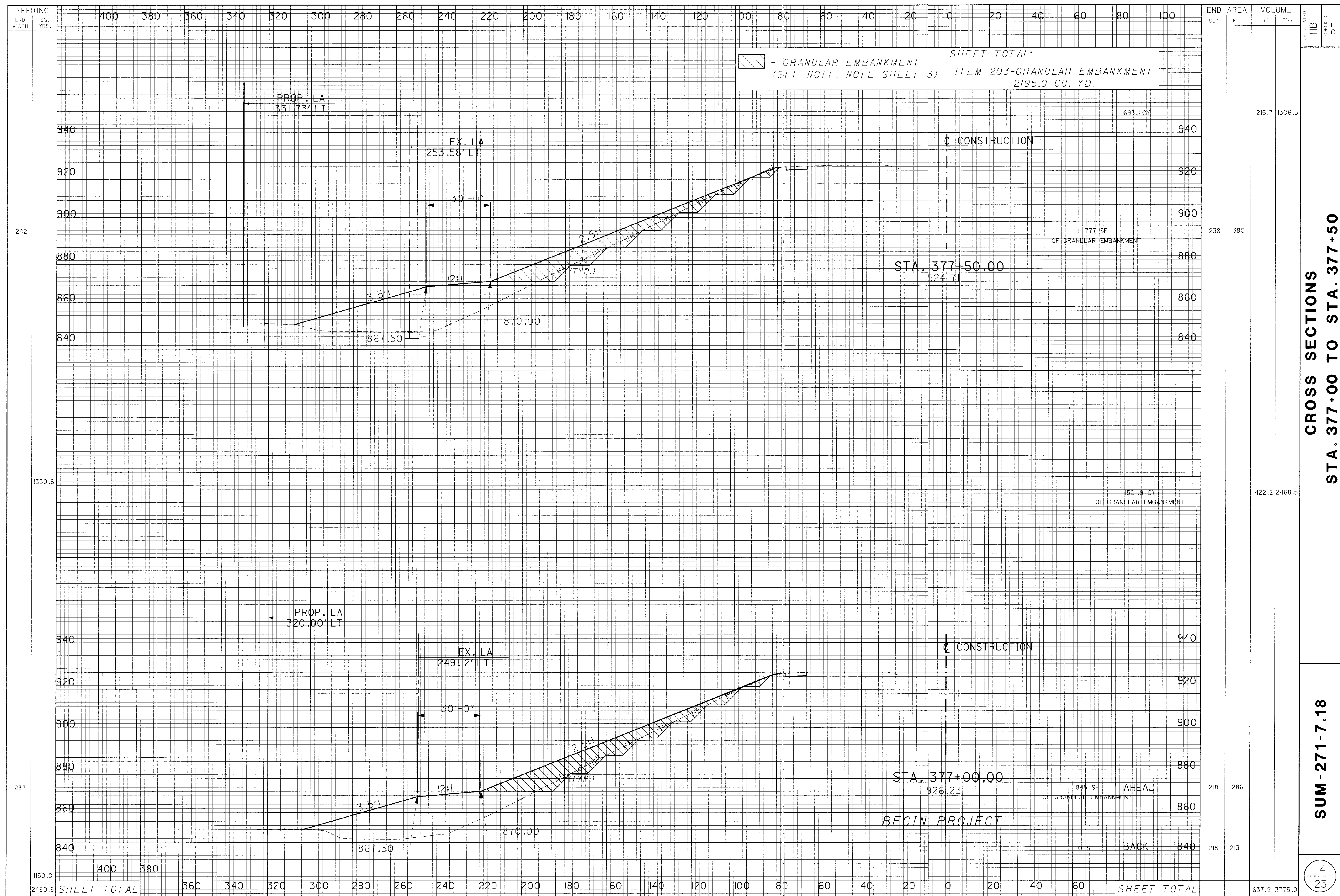
	SUM - 271 - 7.18
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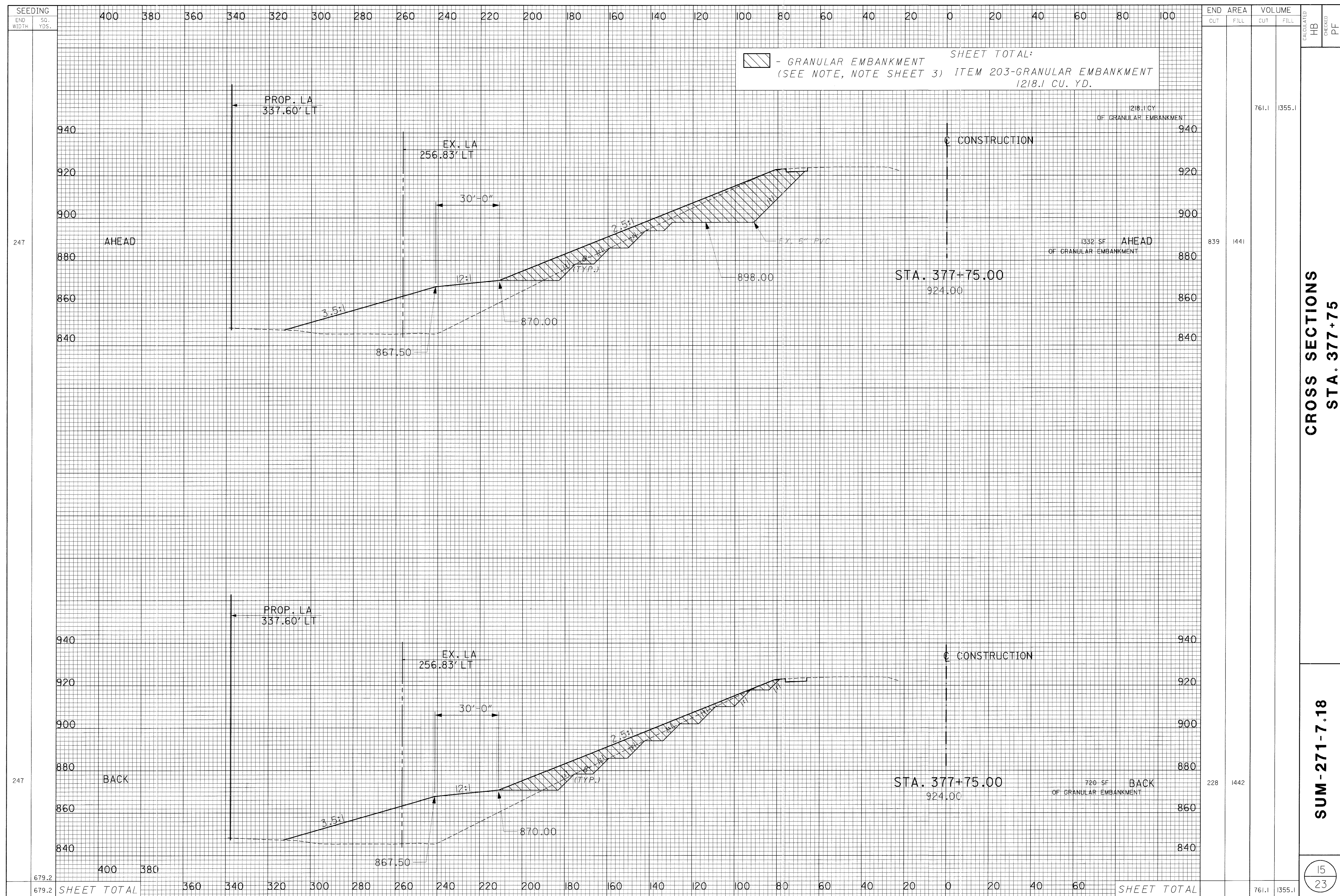
	

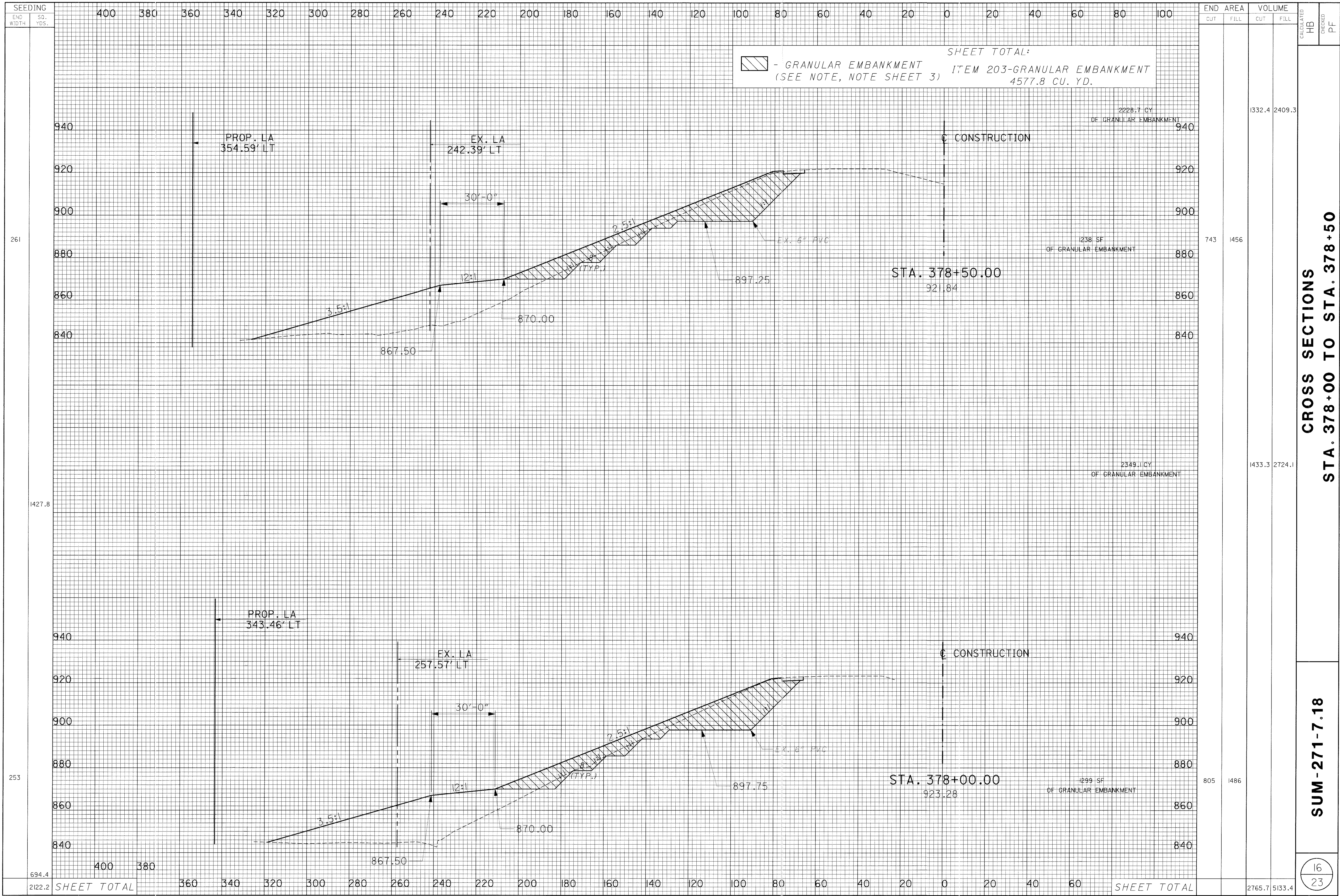


CROSS SECTIONS
STA. 376+00 TO STA. 376+50

SUM-271-7.18



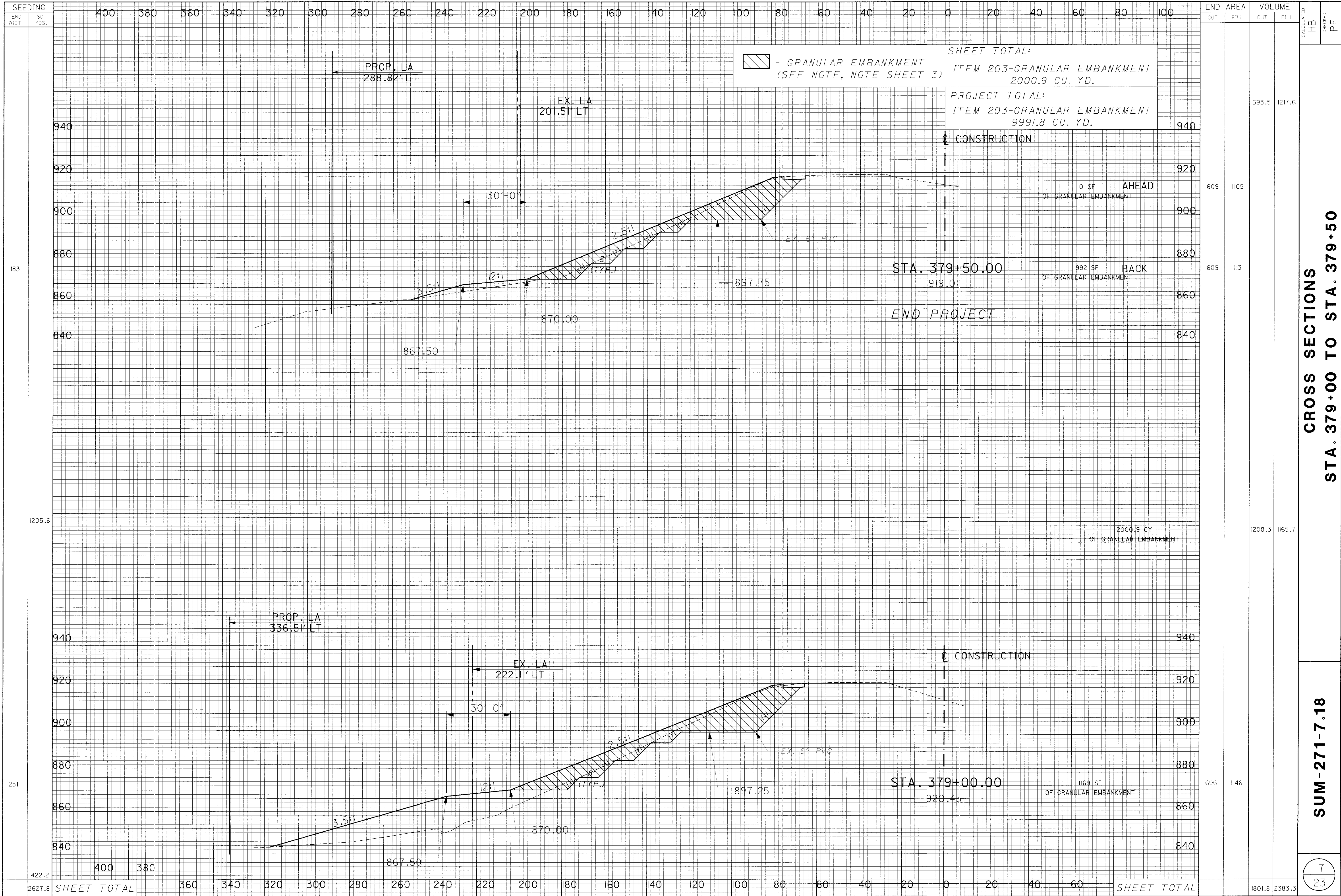


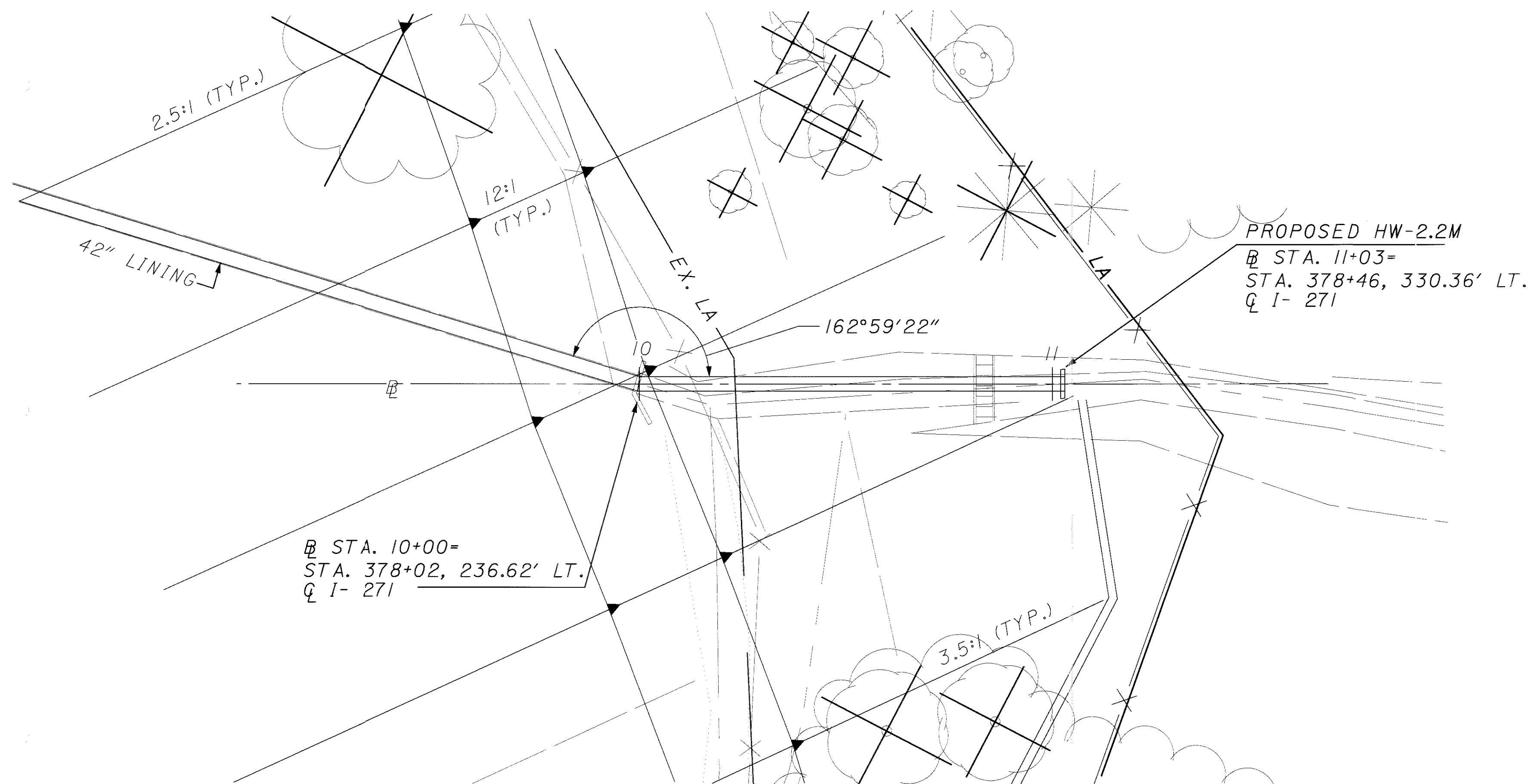


SHEET TOTAL:
ITEM 203-GRANULAR EMBANKMENT
4577.8 CU. YD.

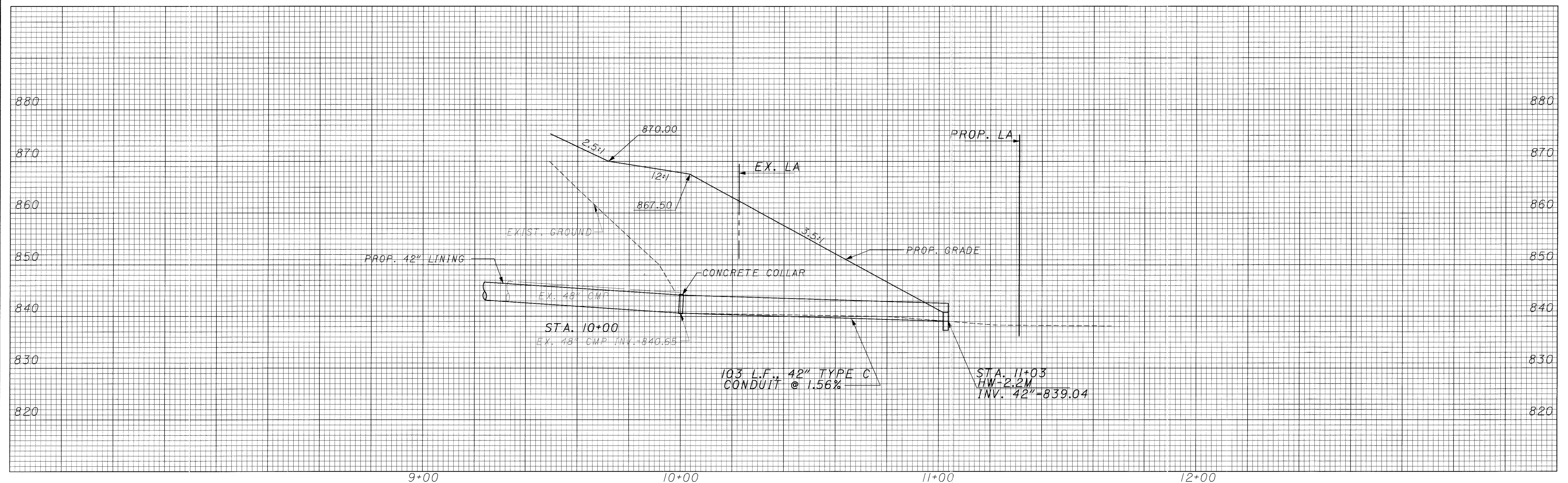


- GRANULAR EMBANKMENT
(SEE NOTE, NOTE SHEET 3)



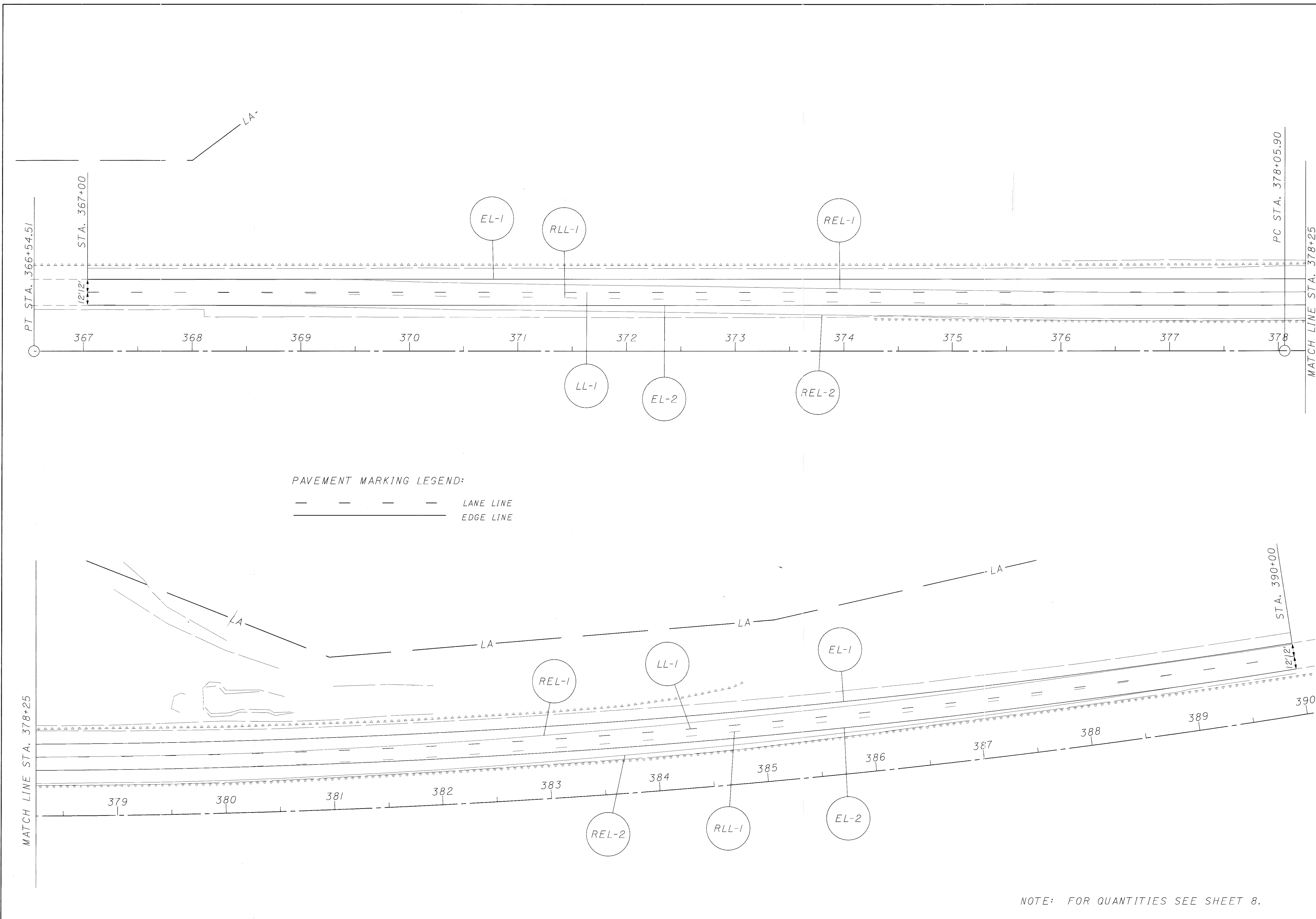


NOTE:
SEE SHEET 11 FOR QUANTITY CALCULATIONS.



CULVERT DETAILS
PROPOSED 42" STORM SEWER

SUM-271-7.18



RAISED PAVEMENT MARKER, INSTALLATION ONLY

The Department will supply the RPM castings with the yellow/yellow, one-way white, white/red and yellow/red retro-reflectors installed in the castings for Item 62I, Raised Pavement Marker, Installation Only. The Contractor shall furnish all other material required to complete this item.

The Contractor will be informed at the pre-construction conference as to the location in Columbus of the Department supplied RPM materials. When specified, additional RPM materials will be stored within the District for use on this project. The Contractor shall pick up Department supplied materials at the specified location(s) for transport to the work site or to the Contractor's storage facility. An authorization for pick-up form is given in Supplemental Specification 1082 dated January 6, 1998. The Contractor shall notify the District and/or the parties listed on the authorization form in writing at least 5 working days prior to pick-up of Department supplied materials. The materials shall be stored without damage or contamination with foreign matter. A deduction in the amount of the actual cost to the Department shall be made for the materials damaged by the Contractor or for castings received by the Contractor which were not installed or were not returned to the Department.

Loading of material supplied by the Department at the recycler's warehouse shall be done in accordance with supplemental specification 1082.

All castings shall be placed the same working day that the RPM slots are cut into the pavement.

RPM REMOVED FOR STORAGE, AS PER PLAN

In addition to the requirements of 202.071, the contractor shall deliver the removed markers to the ODOT District office at 705 Oakwood St, Ravenna, OH 44266. The Contractor shall contact the District [Luke Nagle, 330-297-0801 ext 329] two working days prior to the delivery.

NOTE:
Raised Pavement Markers supplied by the Department
shall be the Low Profile Type.

RPM REPLACEMENT / REMOVAL

STANDARD CONSTRUCTION DWG.

TC-65.10M 11-1-95

TC-65.12M 11-1-95

TC-65.11M 11-1-95

LOCATION				ITEM 202	ITEM 621				REMARKS
COUNTY	ROUTE	CENTER LINE LOG MILES		RPM REMOVED FOR STORAGE, AS PER PLAN	INSTALLATION ONLY				
		FROM	TO		RPM WITH YELLOW/YELLOW REFLECTOR	RPM WITH WHITE/RED REFLECTOR	RPM WITH ONE-WAY WHITE REFLECTOR	RPM WITH YELLOW/RED REFLECTOR	
SUM	271	6.99	7.43	174		29	29	29	
TOTAL				174		29	29	29	TOTALS CARRIED TO GENERAL SUMMARY

RAISED PAVEMENT MARK

SUM-271-7.18

21/23

SUB-SUMMARY

[illegible]

HORIZONTAL
SCALE IN FEET

PID NO.
21069

R/W DESIGNER
MCH
R/W REVIEWER
WHI

**PROPERTY MAP AND SUMMARY OF
ADDITIONAL RIGHT OF WAY**

SUM-271-7.18

1	2
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$$\frac{22}{23}$$
[illegible]

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

No utility easements found on record.

1 OWNERSHIPS 0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 TOTAL TAKE 0 OWNERSHIPS WITH "P" ITEMS

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF NOTE: AL
STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE SHOWN.

NOTE: ALL AREAS IN ACRES

[illegible]

* - DENOTES RIGHT OF WAY ENCROACHMENT.

REV.	DATE	
DATE OF COMPLETION:		

