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APPROVALS

WE THE COMMISSIONERS OF OTTAWA COUNTY, IN FORMAL SESSION HEREBY APPROVE THESE PLANS AND CERTIFY THAT THE NECESSARY RIGHT-OF-WAY IS AVAILABLE.

MARK E. COPPELER, COMMISSIONER

DATE

DONALD A. DOUGLAS, COMMISSIONER

DATE

MARK W. STAHL, COMMISSIONER

DATE

RESOLUTION NUMBER

MEHLOW DITCH

DRAINAGE IMPROVEMENT PROJECT

LOCATION: SECTIONS 11 & 12, T6N, R15E, SALEM TOWNSHIP,
AND SECTION 7, T6N, R15E, BAY TOWNSHIP,
OTTAWA COUNTY, OHIO
2025

PLAN PREPARED BY:

Ottawa
Soil & Water
CONSERVATION DISTRICT

OTTAWA COUNTY
ENGINEER

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF PUBLIC ROADWAYS.

Daniel B. Toris, Jr., P.E., P.S.

DANIEL B. TORIS, JR., P.E., P.S.

OTTAWA COUNTY ENGINEER

10/21/2025

DATE

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AUDITOR DITCH NO.

OSWCD DITCH NO.

24-001

OCE DITCH NO.

PROJECT NO.

OCE 24-017

MEHLOW DITCH

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GENERAL

PROJECT DESCRIPTION

THIS PROJECT IS A DITCH PETITION PROJECT, ADMINISTERED BY THE OTTAWA SOIL & WATER CONSERVATION DISTRICT, THE OTTAWA COUNTY ENGINEER AND THE OTTAWA COUNTY COMMISSIONERS. THIS PROJECT INVOLVES THE CONSTRUCTION OF A SELF-FORMING CONSERVATION DITCH TO IMPROVE WATER QUALITY AND REDUCE NUTRIENT RUNOFF. THE WORK WILL INCLUDE EARTHWORK TO CREATE AN OVER-WIDE CHANNEL WITH A SELF-FORMING VEGETATED BENCH. IN ADDITION TO THE DITCH CONSTRUCTION, THE PROJECT WILL ALSO REQUIRE THE ADJUSTMENT OF SEVERAL DRIVEWAY CULVERTS TO ACCOMMODATE THE NEW CHANNEL DESIGN.

DEFINITIONS

ENGINEER: THE TERM "ENGINEER" SHALL MEAN THE OTTAWA COUNTY ENGINEER, OR THEIR AUTHORIZED REPRESENTATIVE, ACTING ON BEHALF OF OTTAWA COUNTY, WHO IS RESPONSIBLE FOR THE DESIGN, ADMINISTRATION, AND INSPECTION OF THE PROJECT.

PROJECT SUPERVISOR: THE TERM "PROJECT SUPERVISOR" SHALL MEAN THE REPRESENTATIVE FROM THE OTTAWA SOIL AND WATER CONSERVATION DISTRICT WHO IS RESPONSIBLE FOR OVERSEEING THE CONSTRUCTION AND ENSURING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS -- 2023 EDITION (C&MS), INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL, UNLESS STATED OTHERWISE, SHALL GOVERN THIS IMPROVEMENT.

UTILITY LINES

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING THE MARKING OF ANY UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE PROJECT LIMITS. THE UTILITY(IES) SHALL BEAR ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THE PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION TYPE DEVICES BETWEEN THE HOURS OF 9 P.M. AND 6 A.M. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM OF 1988. AT THE REQUEST OF THE CONTRACTOR, THE COUNTY WILL PROVIDE SURVEY CONTROL ONSITE FOR THE BASIS OF THE REQUIRED CONSTRUCTION LAYOUT.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

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" OR "AS NECESSARY" 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.

CONSTRUCTION INSPECTION

THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL CONSTRUCTION INSPECTION HAS BEEN ARRANGED WITH THE OTTAWA SOIL AND WATER CONSERVATION DISTRICT.

PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR SHALL COMPLY WITH THE SECTION 107.10 OF THE 2023 ODOT C&MS WITH RESPECT TO THE PRESERVATION OF ADJACENT PROPERTY.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE CONTRACTOR SHALL PROVIDE FOR 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.

DATE OF COMPLETION

THE COMPLETION DATES WILL BE PRESENTED IN THE PROPOSAL FOR THIS PROJECT.

FAILURE TO COMPLETE THE WORK BY THE DATES LISTED IN THE PROPOSAL WILL RESULT IN MONIES DEDUCTED FROM ANY AMOUNT DUE THE CONTRACTOR AS LIQUIDATED DAMAGES AS PER SECTION 108.07 OF THE 2023 ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 1, 2023. COUNTY ENGINEER RESERVES THE RIGHT TO WAIVE THIS IF DEEMED REASONABLE.

REMOVAL OF UNSPECIFIED OBSTRUCTIONS

THE CONTRACTOR SHALL NOT REMOVE ANY OBSTRUCTIONS NOT SPECIFIED IN THE PLANS WITHOUT THE PRIOR NOTIFICATION OF THE PROJECT SUPERVISOR AND APPROVAL OF THE ENGINEER. THE ENGINEER SHALL NOTIFY THE AFFECTED LANDOWNER AND REMOVAL OF OBSTRUCTIONS SHALL PROCEED ON A CASE-BY-CASE BASIS AT THE DISCRETION OF THE ENGINEER.

PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL COMPLETE AN INSPECTION OF THE PROJECT AREA AND PROVIDE THE PROJECT SUPERVISOR AND ENGINEER WITH A LIST DESCRIBING THE LOCATION AND NATURE OF ANY UNSPECIFIED OBSTRUCTIONS.

PRIVATE DRAINAGE OUTLETS

LANDOWNERS HAVE BEEN NOTIFIED TO MARK ALL TILE OUTLET PIPES. ANY MARKED TILE OUTLETS THAT ARE DAMAGED OR DESTROYED WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ANY UNMARKED TILES THAT ARE DAMAGED DURING THE PROJECT ARE TO BE REPORTED TO THE PROJECT SUPERVISOR. THESE TILES MAY BE FIXED AT THE LANDOWNERS' EXPENSE ONLY. THE CONTRACTOR MAY COORDINATE THESE EFFORTS WITH THE PROPERTY OWNERS OUTSIDE THE SCOPE OF THIS CONTRACT.

PERMITTING

THIS PROJECT IS AUTHORIZED UNDER NATIONWIDE PERMIT NO. 27. ALL WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE SPECIFICATIONS OF NATIONWIDE PERMIT NO. 27.

PERMIT NO. LRB-2025-00850

REGULATORY BRANCH
ATTN: BRIAN SWARTZ
US ARMY CORPS OF ENGINEERS
240 LAKE STREET, UNIT D
OAK HARBOR, OHIO 43449
419-898-3491

EARTHWORK

GENERAL EARTHWORK

ALL EARTHWORK IS TO BE PERFORMED IN ACCORDANCE WITH THE GRADES AND ALIGNMENTS SHOWN ON THE PLANS. ALL DIRECTIONS FOR CHANNEL ORIENTATION ARE GIVEN AS LEFT OR RIGHT LOOKING DOWNSTREAM IN THE DIRECTION OF INCREASING DITCH STATIONS. WORK ON EXISTING CULVERTS, BRIDGES, AND FARM DRIVES IS NOT PART OF THIS CONTRACT UNLESS OTHERWISE SPECIFICALLY NOTED. ANY EXISTING DRAINAGE TILE REQUIRED TO BE REMOVED OR ADJUSTED TO MEET THE APPROPRIATE GRADE IS IDENTIFIED AND ADDRESSED IN THE PLANS.

SEE DETAIL "TYPICAL DRAINAGE IMPROVEMENT SECTION -- OPEN DITCH" ON SHEET 3 FOR TYPICAL CROSS SECTION. CONSTRUCTION SHALL TAKE PLACE WITHIN THE 25-FOOT PERMANENT MAINTENANCE EASEMENT, OR AS DIRECTED BY PROJECT SUPERVISOR, WHILE LIMITING IMPACT TO THE EASEMENT AREA TO THE EXTENT POSSIBLE. ALL EXCAVATED SPOIL IS TO BE PLACED AND LEVELED ON THE LAND ADJACENT TO THE CHANNEL, EXCEPT AS DICTATED BY A SPOIL WAIVER SUBMITTED BY THE LANDOWNER FOR A SPECIFIC PROPERTY, OR AS DIRECTED BY THE PROJECT SUPERVISOR. SPOIL SHALL BE PLACED NO CLOSER THAN 10 FEET FROM THE TOP OF BANK IN ALL INSTANCES. ANY SPOIL DESIGNATED FOR REMOVAL BY THE PROJECT SUPERVISOR WHERE THE PROPERTY LACKS A SPOIL WAIVER SHALL BE HAULED OFF-SITE AND DISPOSED OF BY THE CONTRACTOR.

TREES AND WOODY VEGETATION, INCLUDING STUMPS, ARE TO BE REMOVED AS NECESSARY. SEE ITEM 201 -- CLEARING AND GRUBBING.

ITEM 201 -- CLEARING AND GRUBBING, AS PER PLAN:

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. THERE MAY BE LARGE TREES THAT ONLY REQUIRE FLUSH CUTTING IF THEY ARE OUTSIDE THE EXCAVATION LIMITS WHILE OTHERS WILL REQUIRE STUMP REMOVAL. ANY REMAINING STUMPS MUST BE TREATED BY THE CONTRACTOR WITH GARLON AND STALKER, OR A SIMILAR MIX APPROVED BY THE PROJECT SUPERVISOR. THE PROJECT SUPERVISOR WILL SPECIFY WHICH TREES ARE TO BE REMOVED OR FLUSH CUT PRIOR TO WORK BEING COMPLETED. ANY TREES TO REMAIN WILL BE INDICATED BY PROJECT SUPERVISOR. WOODY VEGETATION IS TO BE REMOVED FROM THE DITCH BANK SIDE SLOPES. ALL CUT WOODY MATERIAL, STUMPS AND OTHER DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR. FILL ANY LARGE VOIDS IN THE DITCH BANKS WITH COMPACTED FILL AFTER STUMP REMOVAL. ALL APPLICABLE PROVISIONS OF ITEM 201, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY.

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 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. 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.

ITEM 202 -- PIPE CLEANOUT, 27" TO 48":

ITEM 202 -- PIPE CLEANOUT OVER 48":

THE ABOVE ITEMS CONSIST OF THE CLEANING OF VARIOUS CULVERTS, BRIDGES AND FARM DRIVES IN THE LINE OF THE CHANNEL. CULVERT SEDIMENT MAY CONSIST OF SOIL, GRAVEL AND ROCKS. ALL SEDIMENT REMOVED FROM THE CULVERTS IS REMOVED FROM THE DITCH. IF CULVERTS ARE FLUSHED USING HIGH PRESSURE WATER, THE SEDIMENT IS IN SLURRY FORM AND MAY REQUIRE SETTLING BEFORE REMOVAL.

ITEM 203 -- EXCAVATION, AS PER PLAN

THIS ITEM CONSISTS OF EXCAVATION TO RESHAPE THE EXISTING DITCH. THIS ITEM INCLUDES EXCAVATION WITH SPOIL PLACED IN THE ADJACENT FIELD FOR LEVELING AS PER ITEM 203 EARTHWORK, MISC.: SPOIL LEVELING OR SPOIL REMOVED AS PER ITEM 203 EARTHWORK, MISC.: SPOIL REMOVAL. PLACE ALL SPOIL MORE THAN 10' FROM THE TOP OF THE CHANNEL, OUTSIDE OF EXISTING FILTER STRIPS UNLESS SPECIFIED BY PROJECT SUPERVISOR. THIS ITEM ALSO INCLUDES REINSTALLING ANY EXISTING ROCK RIP RAP REMOVED DURING EXCAVATION USUALLY AT CULVERTS OR OUTLET PIPES. EXISTING CONDITIONS AND PROPOSED EXCAVATION LIMITS ARE SHOWN IN THE CROSS SECTIONS AS THE HATCHED AREAS. ALL YARDAGE QUANTITIES WERE CALCULATED FROM THESE CROSS SECTIONS USING THE AVERAGE END AREA METHOD. MAINTAIN A BOTTOM WIDTH AS SHOWN IN THE TABLE ON THE CALCULATIONS SHEET, AND A MINIMUM OF TWO FOOT VERTICAL TO ONE HORIZONTAL (2:1) SIDE SLOPE DURING ALL EXCAVATION, UNLESS OTHERWISE INDICATED BY THE PROJECT SUPERVISOR. SLOPES MAY VARY NEAR BUILDINGS AND/OR UTILITY POLES AT THE DISCRETION OF THE PROJECT SUPERVISOR. THE CONTRACTOR SHALL MEET WITH THE PROJECT SUPERVISOR PRIOR TO CONSTRUCTION TO DISCUSS THESE LOCATIONS IF ANY EXIST. AREAS WHERE SIDE SLOPES DEVIATE FROM TYPICAL SHALL RETURN TO A 2:1 SIDE SLOPE AS SOON AS PRACTICAL AND BE BLENDED TO MATCH THE DESIRED SLOPE. AS INDICATED IN THE PLANS, THERE ARE VARYING GRADES THROUGHOUT THE PROJECT. CLEAN UP ANY SPOIL SPILLAGE AND FILL RUTS OR TRACKED AREAS IN THE FIELD AS THE WORK PROCEEDS.

FOR PURPOSES OF PERMIT COMPLIANCE, EXCAVATION WORK SHALL START AT STA. 111+78.00 AND PROCEED UPSTREAM TO THE START OF THE IMPROVEMENT. EXCAVATION FROM STA. 11+78.00 TO THE END OF IMPROVEMENT SHALL BE COMPLETED AFTER CONSTRUCTION OF THE UPSTREAM SECTION. IN-WATER WORK IS NOT PERMITTED BETWEEN MARCH 15TH AND JUNE 30TH TO PRECLUDE ADVERSE IMPACTS ON THE SPAWNING, NURSERY, AND FEEDING OF INDIGENOUS FISH.

IT WILL BE NECESSARY TO EXCAVATE FROM DIFFERENT SIDES ON CERTAIN PROPERTIES DUE TO ACCESS AND OBSTACLES. THE TABLE ON THE CALCULATIONS SHEET SHOWS WHICH SIDE IS RECOMMENDED TO WORK FROM FOR EASE OF ACCESS. IF THE CONTRACTOR WISHES TO WORK FROM ANOTHER SIDE, THEY MUST PRESENT A PLAN AND PROVIDE PROPERTY OWNER PERMISSION TO THE PROJECT SUPERVISOR PRIOR TO ENTERING THE PROPERTY.

LANDOWNERS DO NOT DICTATE THE SPECIFICATIONS ON THIS PROJECT. ANY REQUESTS OR PROPOSED CHANGES RAISED BY LANDOWNERS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT SUPERVISOR.

AN ESTIMATED QUANTITY FOR THIS ITEM IS INCLUDED IN THE CALCULATIONS SHEET.

ITEM 203 -- EARTHWORK, MISC.: SPOIL LEVELING

THIS ITEM CONSISTS OF EXCAVATED SPOIL INDICATED IN ITEM 203 -- EXCAVATION, AS PER PLAN. SPOIL TO BE CAST ON THE ADJACENT LAND AND LEVELED TO AVOID OR MINIMIZE ANY PONDING PER APPROVAL OF THE PROJECT SUPERVISOR. LEVELED SPOIL DEPTH NOT TO EXCEED 4". REMOVE ALL STONES 4" OR GREATER. DEPENDING ON SPOIL WORKABILITY AND CONSTRUCTION TIMEFRAME, IT MAY BE ACCEPTABLE TO ALLOW SPOIL TO EXPERIENCE FREEZE THAW CYCLES. THIS SHALL BE COORDINATED WITH THE ENGINEER. SPOIL SHOULD NOT BE PLACED INAREAS WHERE IT WILL BLOCK THE NATURAL FLOW OF SURFACE WATER. THE PROJECT SUPERVISOR WILL IDENTIFY AND MARK THESE AREAS. LANDOWNERS WISHING TO OPT OUT OF HAVING SPOILS LEVELED ON THEIR INDIVIDUAL PROPERTIES HAVE SIGNED AND SUBMITTED A DITCH SPOIL WAIVER FORM.SPECIFIC INSTRUCTIONS FOR DISPOSAL OF SPOILS ON THESE PROPERTIES ARE INDICATED ON THE TABLE IN THE CALCULATIONS SHEET. AN ESTIMATED QUANTITY FOR THIS ITEM IS INCLUDED IN THE CALCULATIONS SHEET.

ITEM 203 -- EARTHWORK, MISC.: SPOIL REMOVAL

THIS ITEM CONSISTS OF EXCAVATED SPOIL INDICATED IN ITEM 203 -- EXCAVATION, AS PER PLAN AT SELECT LOCATIONS WHERE IT IS NOT PRACTICAL OR DESIRABLE TO SPREAD THE SPOIL SUCH AS THROUGH OR ALONG HOUSE LOTS, NON-FARMED AREAS, OR CROP AREAS WITH PERENNIAL CROPS. THIS ITEM INCLUDES REMOVAL AND DISPOSAL OF EXCAVATED SPOIL. LOCATING AND SECURING PERMISSION TO USE A SITE FOR THE DISPOSAL OF SPOIL, WOOD AND OTHER DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR. IF AN AREA IS SUGGESTED BY THE PROJECT SUPERVISOR THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR SECURING THE LOCATION, OBTAINING PERMISSION AND MEETING PROPERTY OWNER REQUIREMENTS. BID PRICES SHOULD INCLUDE ALL COSTS ASSOCIATED WITH DISPOSAL. LANDOWNERS WHO DO NOT WANT THEIR SPOIL REMOVED HAVE SIGNED AND SUBMITTED A DITCH SPOIL WAIVER FORM AND ARE INDICATED ON THE TABLE IN THE CALCULATIONS SHEET. AN ESTIMATED QUANTITY FOR THIS ITEM IS INCLUDED IN THE CALCULATIONS SHEET.

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EROSION CONTROL

ITEM 601 - DUMPED ROCK FILL, MISC.: TYPE D

THIS ITEM CONSISTS OF MATERIAL, HAULING AND PLACING OF ODOT TYPE D RIP RAP IN EROSION PRONE AREAS OR IN AREAS TO STABILIZE DITCH SLOPES. THESE AREAS WILL BE DETERMINED DURING EXCAVATION. ROCK MUST BE KEYED IN A MINIMUM OF 12 INCHES IN ORDER TO HOLD ROCK FROM SLIDING. GENERALLY THESE LOCATIONS ARE NATURAL SURFACE WATER ENTRY POINTS FROM ADJACENT FIELDS OR ROAD DITCHES ENTERING THE MAIN CHANNEL. THIS ITEM HAS BEEN INCLUDED IN THE PROJECT AS A CONTINGENCY. THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK ASSOCIATED WITH THIS ITEM UNLESS AUTHORIZED BY THE ENGINEER. A QUANTITY OF 200 TONS HAS BEEN ESTABLISHED FOR THIS POTENTIAL WORK.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

ITEM 659 - REPAIR SEEDING AND MULCHING, AS PER PLAN

THESE ITEMS CONSIST OF THE PERMANENT SEEDING AND FERTILIZING OF THE DITCH BANKS AND FILTER STRIPS THAT ARE DAMAGED DURING CONSTRUCTION. ANY RUTTED OR DISTURBED AREAS WILL BE FILLED, GRADED, SEEDED, AND FERTILIZED.

WHEN THE ABOVE ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ITEM 659, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL APPLY UNLESS MODIFIED HEREIN.

659.09 NATIVE GRASSES AND WILDFLOWERS

UNLESS OTHERWISE DIRECTED/APPROVED BY THE ENGINEER, USE THE FOLLOW SEED MIXTURE CLASS(ES) FOR ITEM 659:

DITCH BANKS - CLASS 3B

FILTER STRIPS (SPOIL LEVELING) - CLASS 4B

FILTER STRIPS (SPOIL REMOVAL) - CLASS 1

659.10 SITE PREPARATION

DITCH FILTER STRIPS SHALL BE DISKED OR WORKED TO PREPARE A SEED BED A MINIMUM OF TWO INCHES DEEP, UNLESS NO TILL EQUIPMENT IS USED. THE FILTER STRIP SHALL BE SMOOTH FROM THE TOP OF THE DITCH BANK AND BLEND INTO THE ADJACENT AREA.

659.12 SEEDING METHODS

SEED TO BE APPLIED WITH A BROADCAST SEEDER ON DITCH BANKS, AND A GRAIN DRILL MAY BE USED ON THE FILTER STRIPS. DITCH BANKS SHALL BE SEEDED AS EXCAVATION PROGRESSES. AT A MINIMUM, SEEDING SHOULD BE DONE AT THE END OF EACH WORK WEEK. DITCH FILTER STRIPS WILL BE SEEDED AFTER SPOIL IS SPREAD. A PERMANENT SEEDING WILL BE COMPLETED DURING THE PERIOD OF MARCH 15 TO OCTOBER 15.

659.13 MULCHING OPERATION

THE PROJECT SUPERVISOR WILL SPECIFY AREAS TO BE MULCHED PRIOR TO WORK BEING COMPLETED.

659.22 FERTILIZATION

UNLESS OTHERWISE DIRECTED/APPROVED BY THE PROJECT SUPERVISOR, USE THE FOLLOWING FERTILIZATION MIXTURE FOR ITEM 659:

SEEDING AND MULCHING, AS PER PLAN

A 12-12-12 OR EQUIVALENT FERTILIZER AT 10 POUNDS PER 1000 SQUARE FEET

659.23 PERFORMANCE

A MINIMUM OF 20 FESCUE PLANTS PER SQUARE FOOT WILL BE CONSIDERED ADEQUATE ESTABLISHMENT. AREAS IDENTIFIED BY THE PROJECT SUPERVISOR AS INCOMPLETE OR INSUFFICIENTLY RESTORED TO PROPER GRADE AND GRASS COVER SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED AT NO COST TO THE PROJECT.

AN ESTIMATED QUANTITY FOR THIS ITEM IS INCLUDED IN THE CALCULATIONS SHEET. IN ADDITION TO THE CALCULATED QUANTITY, A CONTINGENCY QUANTITY OF 5491 SQUARE YARDS HAS BEEN ESTABLISHED AS FOLLOWS:

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN (DITCH) X 10% = 5491 SQ. YD.

ADDITIVE ALTERNATE #1 (IF AUTHORIZED)

ITEM 671 - EROSION CONTROL MAT - TYPE B

THIS ITEM WILL BE BID INDEPENDENT OF THE BASE BID AND BE AWARDED AS BUDGET ALLOWS.

THE EROSION CONTROL MAT SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1, OR AS SPECIFIED BY THE ENGINEER, AND SHALL BE PLACED TO TWO (2) FEET BEYOND TOP OF BANK. EROSION CONTROL MAT SHALL BE INSTALLED PER ODOT C&MH 671.03 OR AS SPECIFIED BY THE ENGINEER. EROSION CONTROL MAT SHALL STOP AT THE EXISTING WATER LEVEL AT THE TIME OF CONSTRUCTION AS VERIFIED BY THE ENGINEER. AN ESTIMATED QUANTITY FOR THIS ITEM IS INCLUDED IN THE CALCULATIONS SHEET AS AN ADDITIVE ALTERNATE.

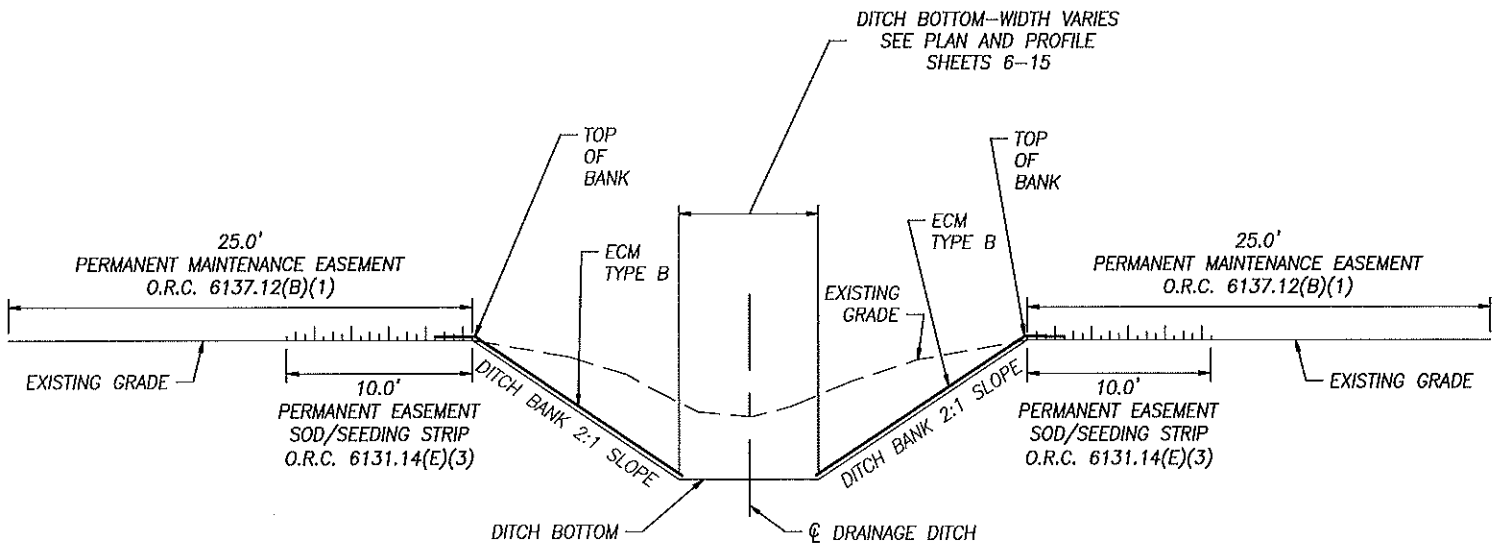
THIS ADDITIVE ALTERNATE IS TO BE COMPLETED IN CONJUNCTION WITH SEEDING OF THE DITCH BANK (ITEM 659) AND WILL NOT AFFECT OTHER PROJECT ITEMS OR COMPLETION DATES.

DRAINAGE

ITEM 611 - PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES

ALL WORK PERFORMED FOR ITEMS LISTED UNDER ITEM 611 SHALL BE PERFORMED IN FULL COMPLIANCE WITH ODOT CM&S ITEM 611 WITH THE FOLLOWING EXCEPTIONS:

- ALL NEW PIPES SHALL INCLUDE ROCK PROTECTION AT ALL INLETS AND OUTLETS CONSISTING OF ODOT TYPE D RIP RAP KEYED IN 6 INCHES AND MATCHING THE FINAL GRADE OF THE DITCH. ROCK SHALL BE PLACED FROM THE POINT WHERE THE PIPE ENTERS THE GROUND AT THE CROSSOVER TO 5 FEET BEYOND THE END OF THE PIPE AND UP TO AN ELEVATION EQUAL TO THE SPRINGLINE. COST FOR THIS ITEM SHALL BE INCLUDED IN THE CONDUIT INSTALLATION PRICE.
- NO SHOP DRAWING PREPARATION OR SUBMITTAL IS REQUIRED FOR THIS PROJECT.
- NO INSTALLATION PLAN IS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL USE INSTALLATION DETAILS PROVIDED IN THESE PLANS DURING CONSTRUCTION. ANY CHANGES OR CLARIFICATIONS OF THESE REQUIREMENTS SHALL BE APPROVED BY THE ENGINEER.
- ALL REQUIRED INSPECTIONS AND DOCUMENTATION THEREOF WILL BE PERFORMED BY THE ENGINEER.
- NO PERFORMANCE REPORT IS REQUIRED FOR THIS PROJECT.



TYPICAL DRAINAGE IMPROVEMENT SECTION - OPEN DITCH

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GENERAL NOTES

MEHLOW DITCH
OCE 24-017

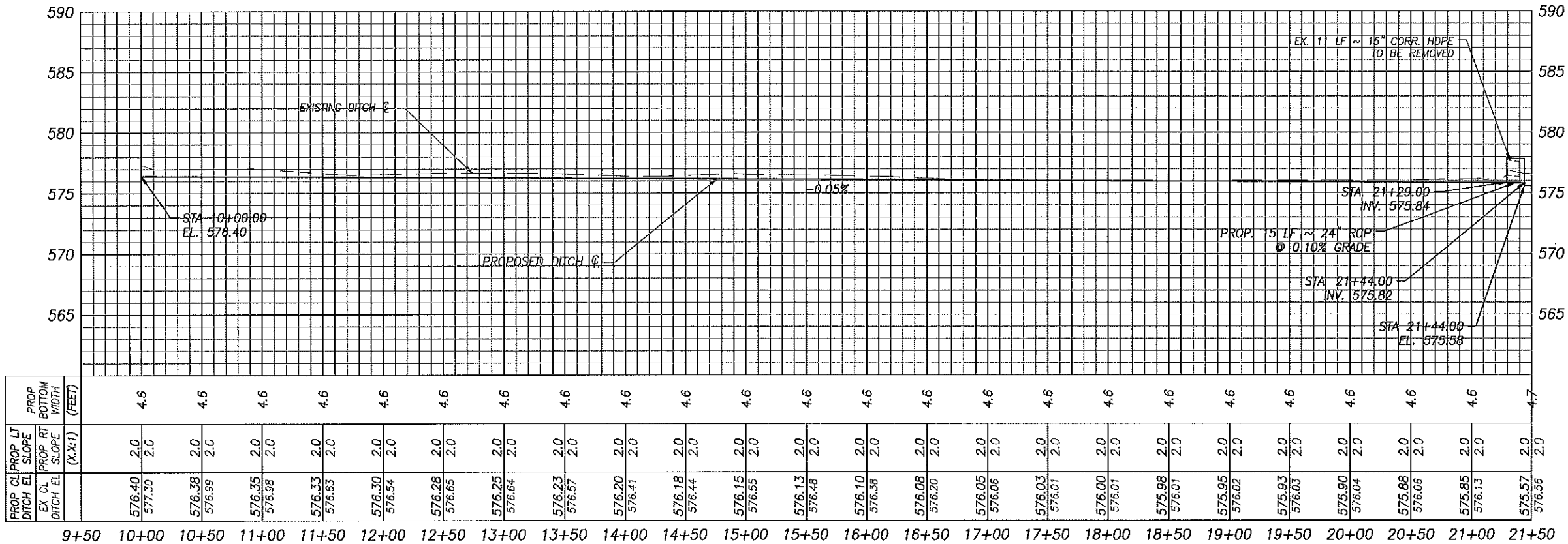
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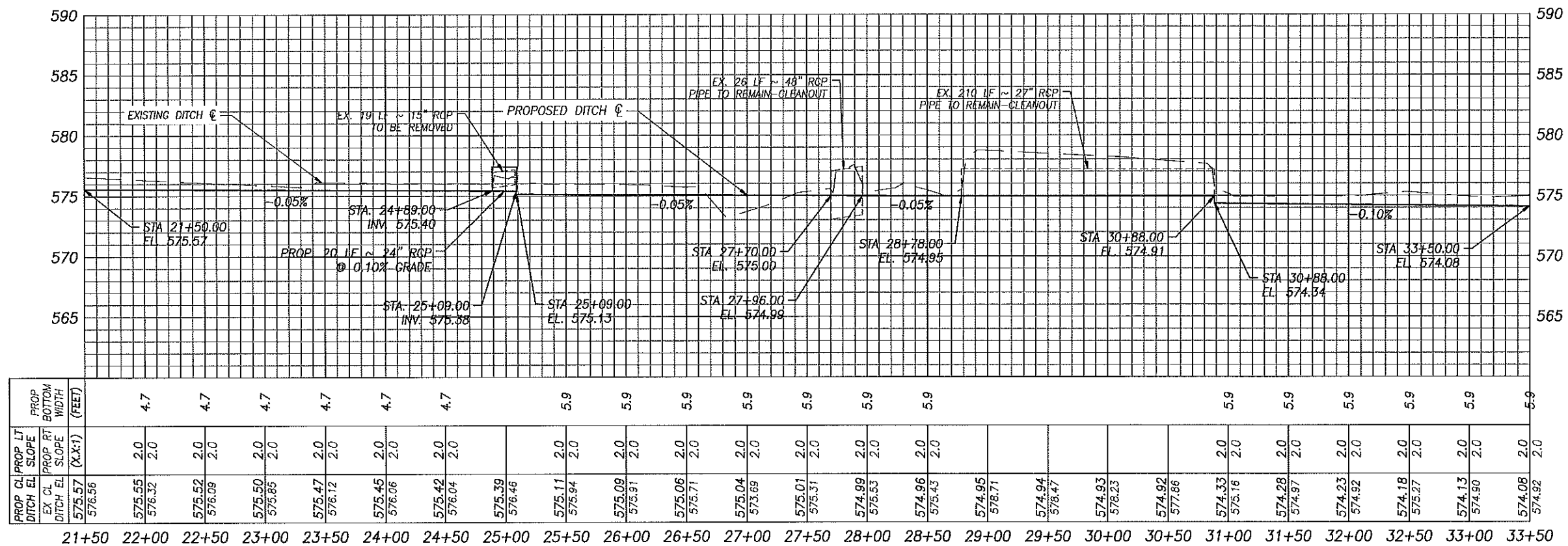
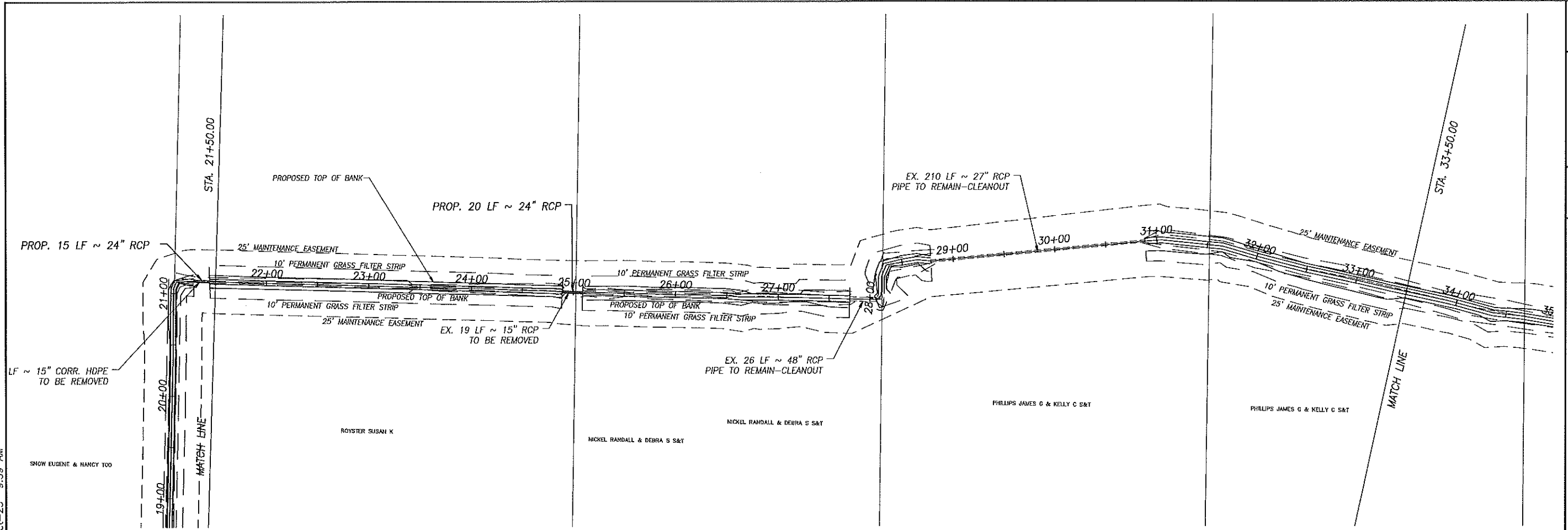
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STATION TO STATION		SIDE OF EXCAVATION LT./RT. (N/S/W/E)	BEGIN STATION END AREA	END STATION END AREA	AVERAGE END AREA	BEGIN STATION EXCAV. WIDTH	END STATION EXCAV. WIDTH	AVERAGE EXCAV. WIDTH	LENGTH	PROP. DITCH BOTTOM WIDTH	PROPERTY OWNER OR CULVERT NAME	202	202	202	202	203	203	203	611	611	611	659	659	659	671
BEGIN	END											FT	FT	FT	FT	CY	CY	CY	FT	FT	FT	SY	SY	SY	SY
		LT./RT. (N/S/W/E)	BA	EA	AA	BW	EW	AW	L	DB						AA x L 27	AA x L 27	AA x L 27				AW x L 9 (DITCH)	20 x L 9 (FILTER)	25 x L 9 (REMOVAL)	(AW-20)xL+(25-20)xL 9
10+00.00	11+05.00	RT. (S)	6.05	6.53	6.29	8.73	10.25	9.49	105.00	4.7	HOLBROOK					24.47	WAVES				110.72	233.33		79.80	
11+05.00	12+05.00	RT. (S)	6.53	5.67	6.10	10.25	10.91	10.58	100.00	4.7	C. HOLBROOK					22.59	22.59				117.56	222.22		88.11	
12+05.00	13+06.00	RT. (S)	5.67	5.68	5.67	10.91	11.87	11.39	101.00	4.7	JOHNSON					21.21	21.21				127.82	224.44		98.08	
13+06.00	14+08.00	RT. (S)	5.68	7.49	6.58	11.87	12.9	12.39	102.00	4.7	JOHNSON					24.87	24.87				140.36	226.67		110.33	
14+08.00	15+00.00	RT. (S)	7.49	5.37	6.43	12.90	10.68	11.79	92.00	4.7	BERLIN					21.91	21.91				120.52		255.56	93.43	
15+00.00	15+50.00	RT. (S)	5.37	4.38	4.87	10.68	10.74	10.71	50.00	4.7						9.02					59.50		138.89	44.78	
15+50.00	16+60.00	RT. (S)	4.38	4.29	4.33	10.74	8.26	9.50	110.00	4.7	GERALDO					17.66	17.66				116.11		305.56	83.72	
16+60.00	16+69.00	RT. (S)	4.29	0.73	2.51	8.26	6.17	7.22	9.00	4.7						0.84	0.84				7.22		25.00	4.57	
16+69.00	17+00.00	RT. (S)	4.29	0.73	2.51	8.26	6.17	7.22	31.00	4.7						2.88	2.88				24.85		86.11	15.72	
17+00.00	20+00.00	RT. (S)	0.73	1.11	0.92	6.17	5.81	5.99	300.00	4.7	ROYSTER					10.21	10.21				199.67		833.33	111.33	
20+00.00	21+10.00	RT. (S)	1.11	2.44	1.78	5.81	7.17	6.49	110.00	4.7						7.24	7.24				79.32		305.56	46.93	
21+10.00	21+29.00	RT. (S)	2.44	10.04	6.24	7.17	12.89	10.03	19.00	4.7						4.39	4.39				21.17		52.78	15.58	
21+29.00	21+44.00	RT. (S)							15.00		ROYSTER FARM DRIVE			15.00					15.00						
21+44.00	22+00.00	RT. (S)	10.04	10.04	10.04	12.89	12.89	12.89	56.00	4.7	ROYSTER					86.66					80.20		155.56	63.40	
22+00.00	24+75.00	RT. (S)	10.04	6.97	8.51	12.89	11.41	12.15	275.00	4.7						3.62					371.25		763.89	290.28	
24+75.00	24+89.00	RT. (S)	6.97	6.97	6.97	11.41	11.41	11.41	14.00	4.7											17.75		38.89	13.63	
24+89.00	25+08.00	RT. (S)							19.00		ROYSTER/NICKEL FARM DRIVE			19.00					19.00						
25+08.00	25+09.00	RT. (S)							1.00																
25+09.00	25+25.00	RT. (S)	13.93	13.93	13.93	14.40	14.4	14.40	16.00	5.9						8.25					25.60	35.56		18.72	
25+25.00	26+25.00	RT. (S)	13.93	13.39	13.66	14.40	15.09	14.75	100.00	5.9	NICKEL					50.58					163.83	222.22		120.83	
26+25.00	27+50.00	RT. (S)	13.39	9.24	11.31	15.09	17.35	16.22	125.00	5.9						52.38					225.28	277.78		171.53	
27+50.00	27+70.00	RT. (S)	9.24	8.59	8.92	17.35	12.35	14.85	20.00	5.9						6.60					33.00	44.44		24.40	
27+70.00	27+97.00	RT. (S)							27.00		NICKEL FARM DRIVE	27.00													
27+97.00	28+25.00	RT. (S)	8.59	8.59	8.59	12.35	12.35	12.35	28.00	5.9						8.91					38.42	62.22		26.38	
28+25.00	28+50.00	RT. (S)	8.59	6.38	7.49	12.35	11.89	12.12	25.00	5.9	PHILLIPS					6.93					33.67	55.56		22.92	
28+50.00	28+78.00	RT. (S)	6.38	21.78	14.08	11.89	21.8	18.85	28.00	5.9						14.60					52.41	62.22		40.37	
28+78.00	30+88.00	RT. (S)							210.00		PHILLIPS COMMERCIAL CULVERT	210.00													
30+88.00	31+00.00	RT. (S)	21.78	21.78	21.78	21.80	21.8	21.80	12.00	5.9	PHILLIPS					9.68					29.07	26.67		23.91	
31+00.00	31+53.00	RT. (S)	21.78	10.62	16.20	21.80	19.02	20.41	53.00	5.9						31.80					120.19	117.78		97.40	
31+53.00	34+70.00	RT. (S)	10.62	15.19	12.90	19.02	14.59	16.81	317.00	5.9	PHILLIPS					151.49					591.91	704.44		455.60	
34+70.00	35+00.00	RT. (S)	15.19	14.70	14.94	14.59	14.55	14.57	30.00	5.9						16.60					48.57	66.67		35.67	
35+00.00	40+00.00	RT. (S)	14.70	22.65	18.67	14.55	20.93	17.74	500.00	5.9	AVERY					345.79					985.56	1111.11		770.56	
40+00.00	42+00.00	RT. (S)	22.65	32.08	27.36	20.93	23.6	22.27	200.00	5.9						202.69					494.78	444.44		408.78	
42+00.00	42+52.00	RT. (S)	32.08	41.49	36.78	23.60	25.41	24.51	52.00	5.9						70.84					141.58	115.58		119.22	
42+52.00	42+79.00	RT. (S)							27.00		AVERY FARM DRIVE			27.00					27.00	5.00					
42+79.00	42+84.00	RT. (S)							5.00																
42+84.00	43+00.00	RT. (S)	41.49	41.49	41.49	25.41	25.41	25.41	16.00	6.6						24.59					45.17	35.56		37.08	
43+00.00	45+00.00	RT. (S)	41.49	50.31	45.90	25.41	26.64	26.03	200.00	6.6	AVERY					340.02					578.33	444.44		477.22	
45+00.00	48+42.00	RT. (S)	50.31	52.87	51.59	26.64	24.25	25.45	342.00	6.6						653.47					966.91	760.00		794.01	
48+42.00	50+00.00	RT. (S)	52.87	50.73	51.80	24.25	26.68	25.47	158.00	6.6	MEEK					303.12		303.12			447.05	351.11	438.89	367.17	
50+00.00	53+78.00	RT. (S)	50.73	54.55	52.64	26.68	26.72	26.70	378.00	6.6						736.97		736.97			1121.40	840.00	1050.00	930.30	
53+78.00	55+00.00	RT. (S)	54.55	62.98	58.76	26.72	27.63	27.18	122.00	6.6	POTTER					265.52		265.52			368.37	271.11	338.89	308.69	
55+00.00	55+52.00	RT. (S)	62.98	57.94	60.46	27.63	23.7	25.67	62.00	6.6						116.43		116.43			148.29	115.56	144.44	122.00	
55+52.00	60+00.00	RT. (S)	57.94	70.25	64.09	23.70	30.78	27.24	448.00	6.6	HARTIGAN					1063.44					1355.95	995.56		1129.48	
60+00.00	60+92.00	RT. (S)	70.25	79.82	75.03	30.78	32.68	31.73	92.00	6.6						255.66					324.35	204.44		277.84	
60+92.00	61+98.00	RT. (S)	79.82	64.11	71.96	32.68	31.75	32.22	106.00	6.6	WITT					282.52					379.42	235.58		325.83	
61+98.00	61+99.00	RT. (S)	64.11	124.61	94.36	31.75	39.47	35.61	1.00	6.6						3.49					3.96	2.22		3.45	
61+99.00	62+32.00								33.00		MUDDY CREEK NORTH ROAD CULVERT		33.00												
62+32.00	62+36.00	BOTH	124.61	124.61	124.61	39.47	39.47	39.47	4.00	11.2						18.46					17.54	8.89	11.11	13.44	
62+36.00	65+00.00	BOTH	124.61	110.57	117.59	39.47	37.25	38.36	264.00	11.2						1149.77					1125.23	586.67	733.33	854.19	
65+00.00	70+00.00	BOTH	110.57	110.87	110.72	37.25	36.17	36.71	500.00	11.2	WITT (LT.) KODAK (RT.)					2050.38					2039.44	1111.11	1388.89	1526.11	
70+00.00	75+00.00	BOTH	110.87	96.47	103.67	36.17	35.14	35.66	500.00	11.2						1919.81					1980.63	1111.11	1388.89	1467.50	
75+00.00	75+12.00	BOTH	96.47	110.51	103.49	35.14	37.63	36.39	12.00	11.2						45.99					48.51	26.67	33.33	36.19	
75+12.00	75+34.00	BOTH	96.47	103.02	99.74	35.14	36.35	35.75	22.00	11.2	WITT (LT.) WITT (RT.)					81.27					87.38	48.89		64.79	
75+34.00	75+58.00	BOTH							22.00																
75+58.00	75+58.00	BOTH							2.00		WITT FARM DRIVE			22.00							2.00				
75+58.00	75+75.00	BOTH	110.51	110.51	110.51	37.63	37.63	37.63	17.00	11.8						69.58					71.08	37.78		52.55	
75+75.00	80+00.00	BOTH	110.51	103.02	106.76	37.63	36.35	36.99	425.00	11.8	WITT					1680.49					1746.75	944.44		1283.50	
80+00.00	82+97.00	BOTH	103.02	88.96	95.99	36.35	35.09	35.72	297.00	11.8						1055.85					1178.76	660.00		855.03	
82+97.00	85+00.00	BOTH	88.96	98.34	93.65	35.09	35.92																		

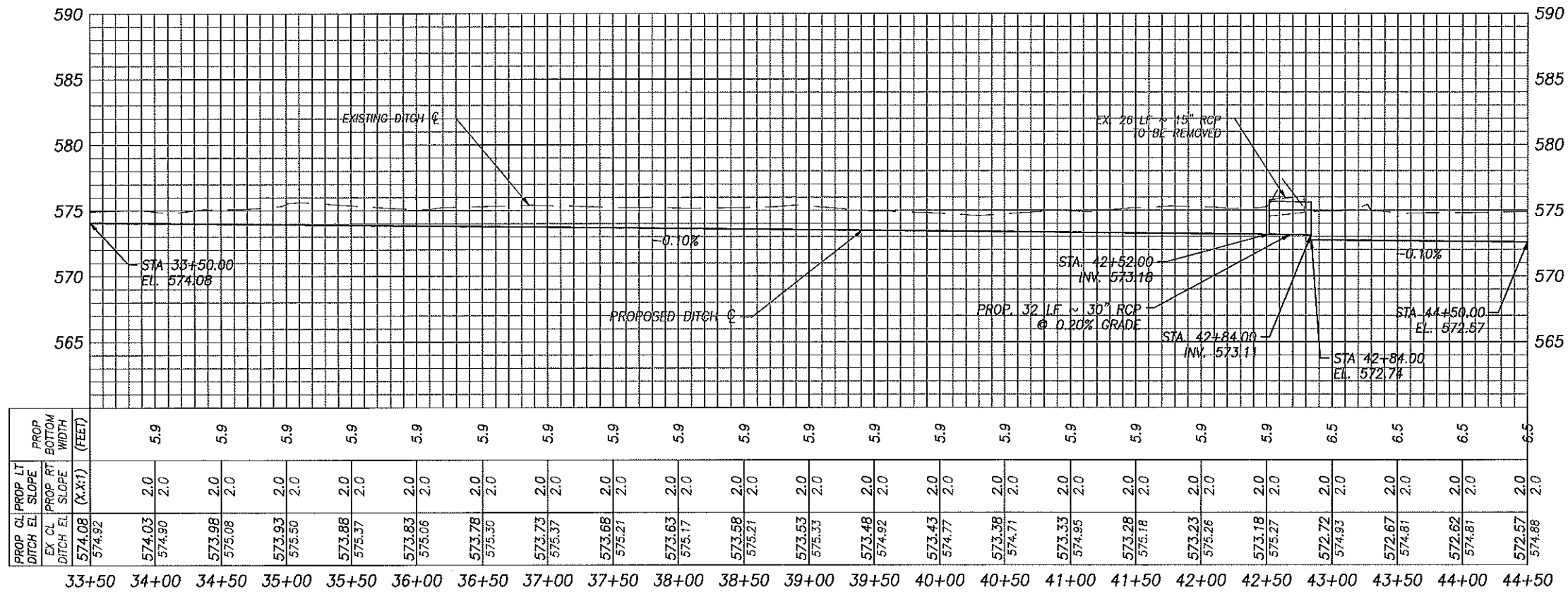
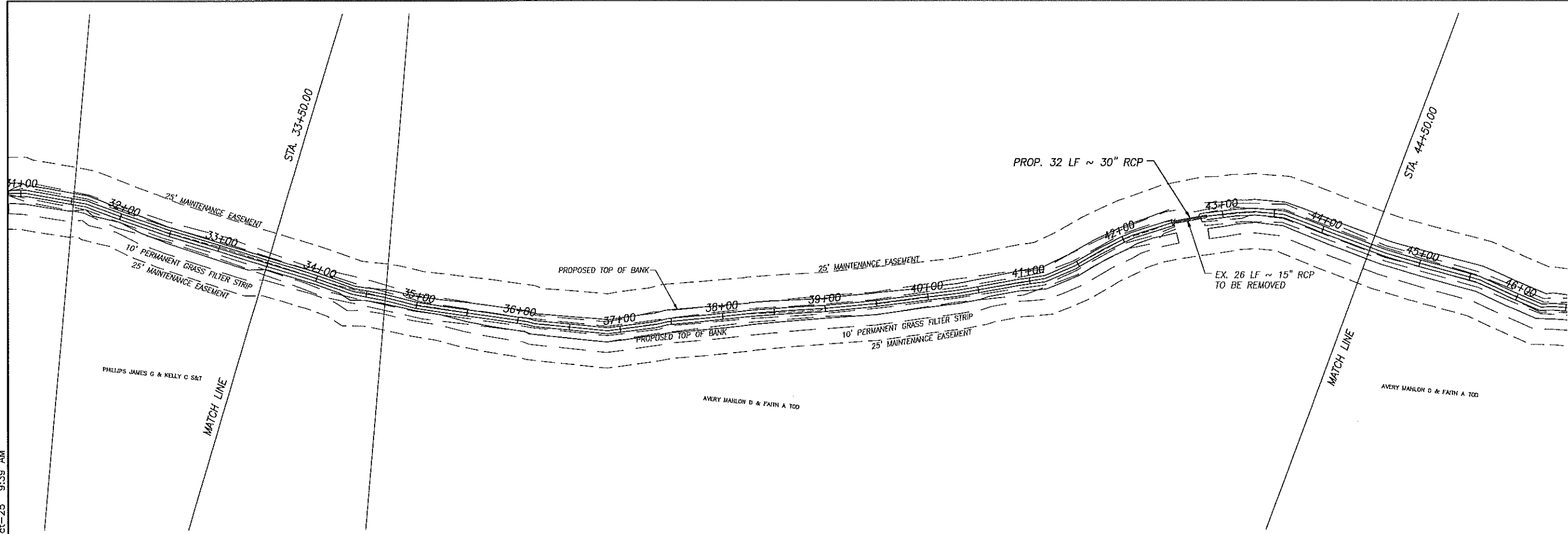
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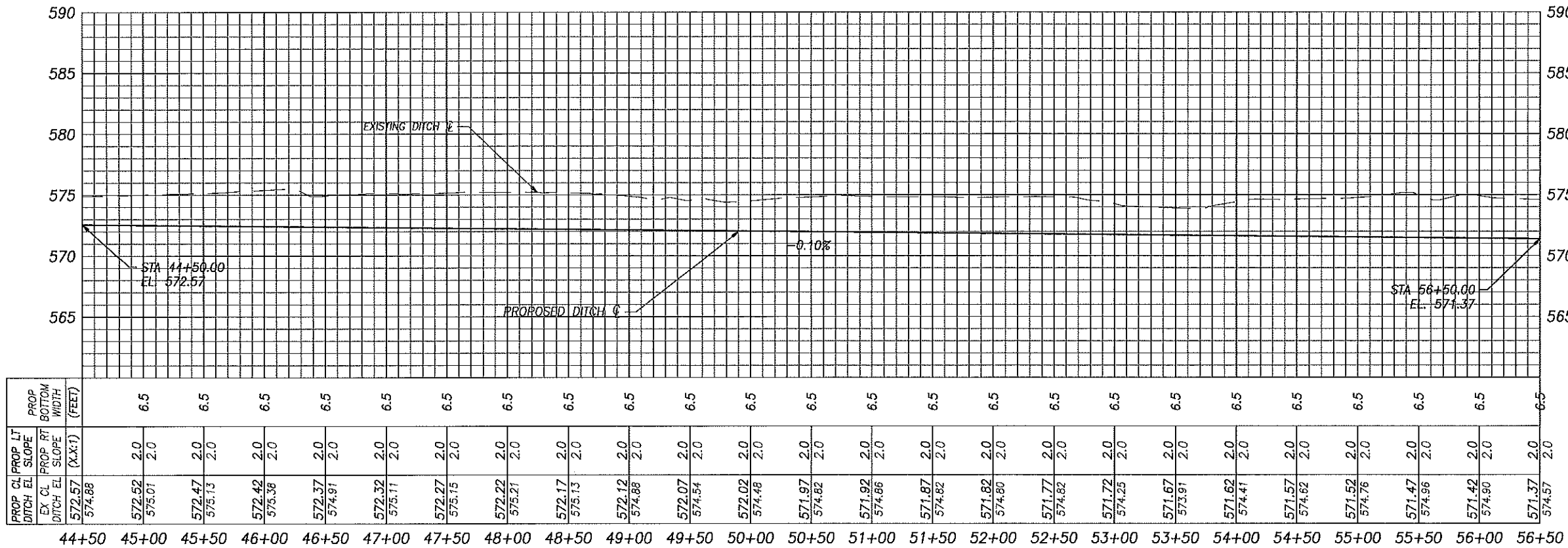
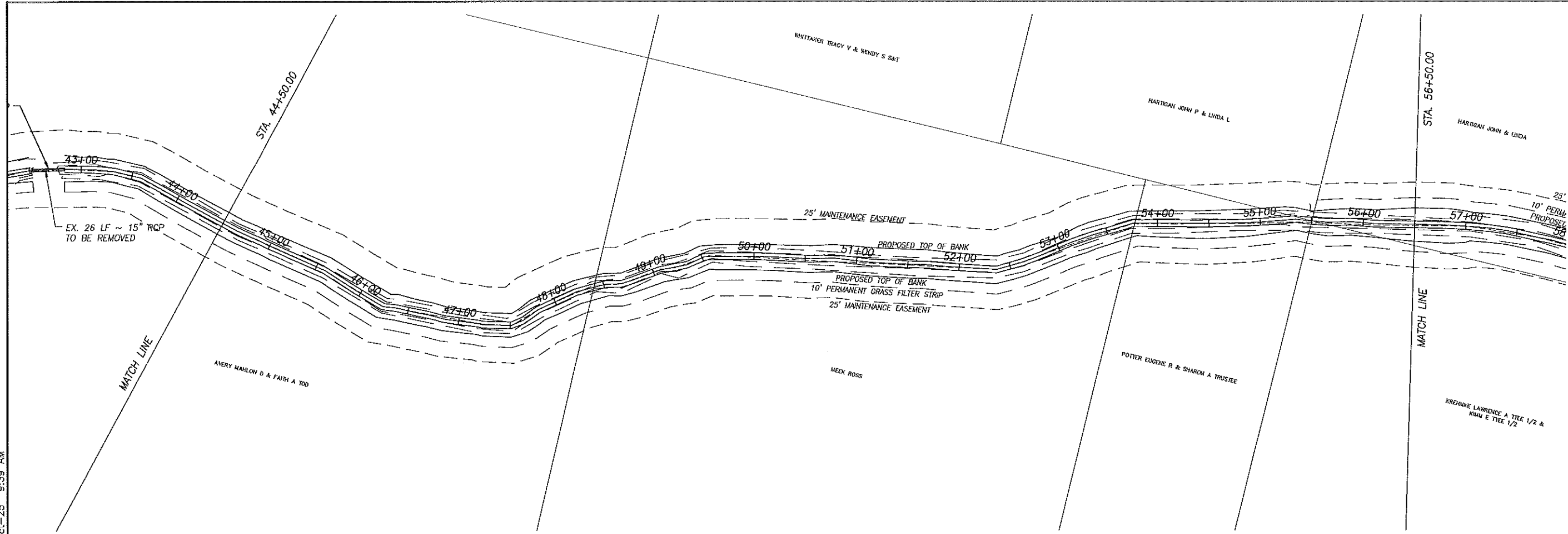


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PROP. CL. PROP. LT. DITCH EL. SLOPE	EX. CL. PROP. RT. DITCH EL. SLOPE	PROP. BOTTOM WIDTH (FEET)	
574.08	574.92	(X:X:1)	
574.03	574.90	2.0	5.9
573.98	575.08	2.0	5.9
573.93	575.50	2.0	5.9
573.88	575.37	2.0	5.9
573.83	575.06	2.0	5.9
573.78	575.30	2.0	5.9
573.73	575.37	2.0	5.9
573.68	575.21	2.0	5.9
573.63	575.17	2.0	5.9
573.58	575.21	2.0	5.9
573.53	575.33	2.0	5.9
573.48	574.92	2.0	5.9
573.43	574.77	2.0	5.9
573.38	574.71	2.0	5.9
573.33	574.95	2.0	5.9
573.28	575.18	2.0	5.9
573.23	575.26	2.0	5.9
573.18	575.27	2.0	5.9
572.72	574.93	2.0	6.5
572.67	574.81	2.0	6.5
572.62	574.81	2.0	6.5
572.57	574.88	2.0	6.5

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0 50 100
HORIZONTAL
SCALE IN FEET

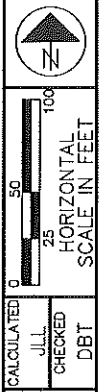
CALCULATED
JLL

CHECKED
DBT

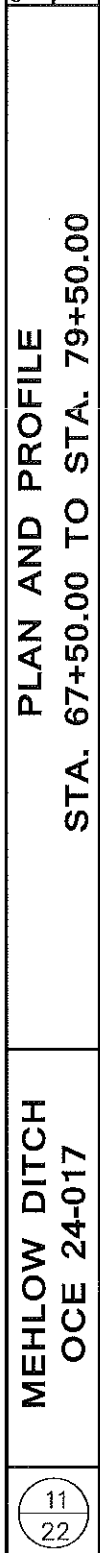
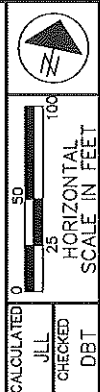
MEHLOW DITCH
OCE 24-017

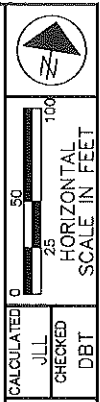
PLAN AND PROFILE
STA. 44+50.00 TO STA. 56+50.00

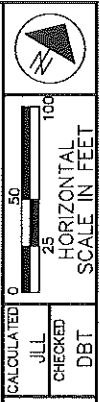
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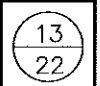
PROP DITCH	CL EL	PROP EX CL DITCH	LT SLOPE	RT SLOPE	PROP RT SLOPE	PROP BOTTOM WIDTH
571.37	571.37	(X:X:1)	(FEET)			
574.57						
571.32	2.0					6.5
574.14	2.0					
571.27	2.0					6.5
574.34	2.0					
571.22	2.0					6.5
574.20	2.0					
571.17	2.0					6.5
573.90	2.0					
571.12	2.0					6.5
574.25	2.0					
571.07	2.0					6.5
574.13	2.0					
571.02	2.0					6.5
574.32	2.0					
570.97	2.0					6.5
574.16	2.0					
570.92	2.0					6.5
574.26	2.0					
570.87	2.0					6.5
574.29	2.0					
570.82						
574.62						
570.61	2.0					11.2
574.37	2.0					
570.60	2.0					11.2
574.40	2.0					
570.60	2.0					11.2
574.31	2.0					
570.59	2.0					11.2
574.33	2.0					
570.59	2.0					11.2
574.31	2.0					
570.58	2.0					11.2
574.34	2.0					
570.58	2.0					11.2
574.33	2.0					
570.57	2.0					11.2
574.33	2.0					
570.57	2.0					11.2
574.36	2.0					
570.56	2.0					11.2
574.42	2.0					
570.56	2.0					11.2
574.47	2.0					

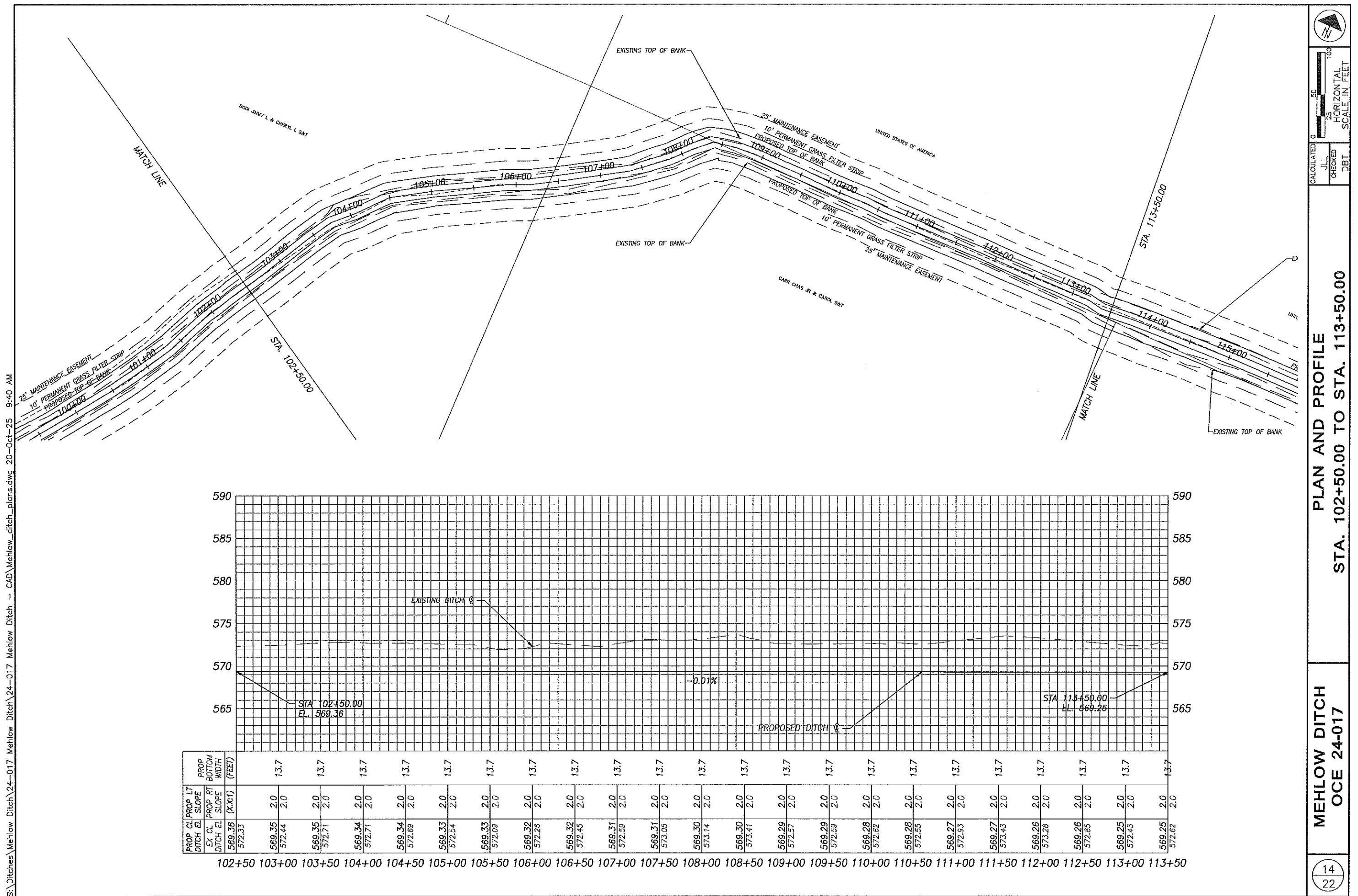




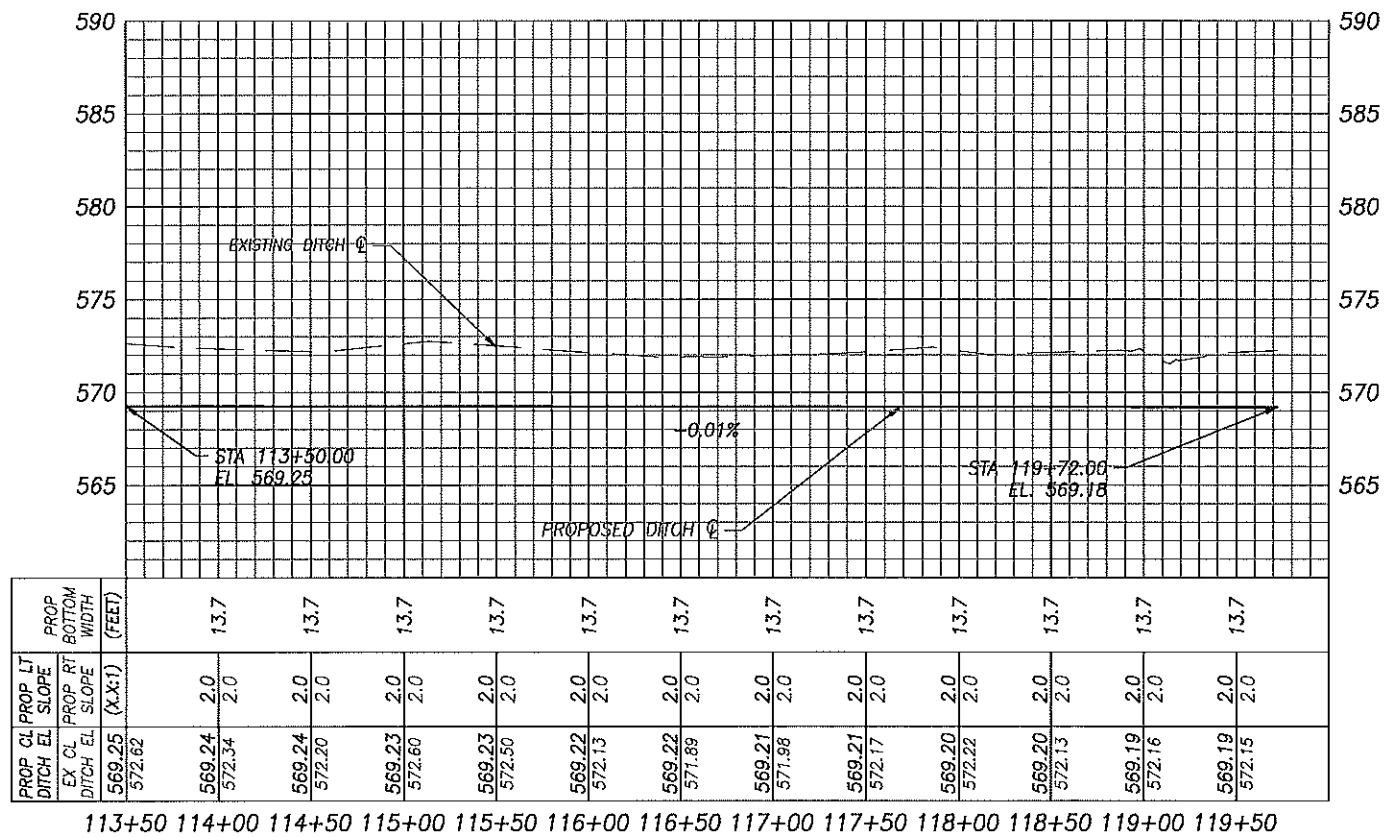
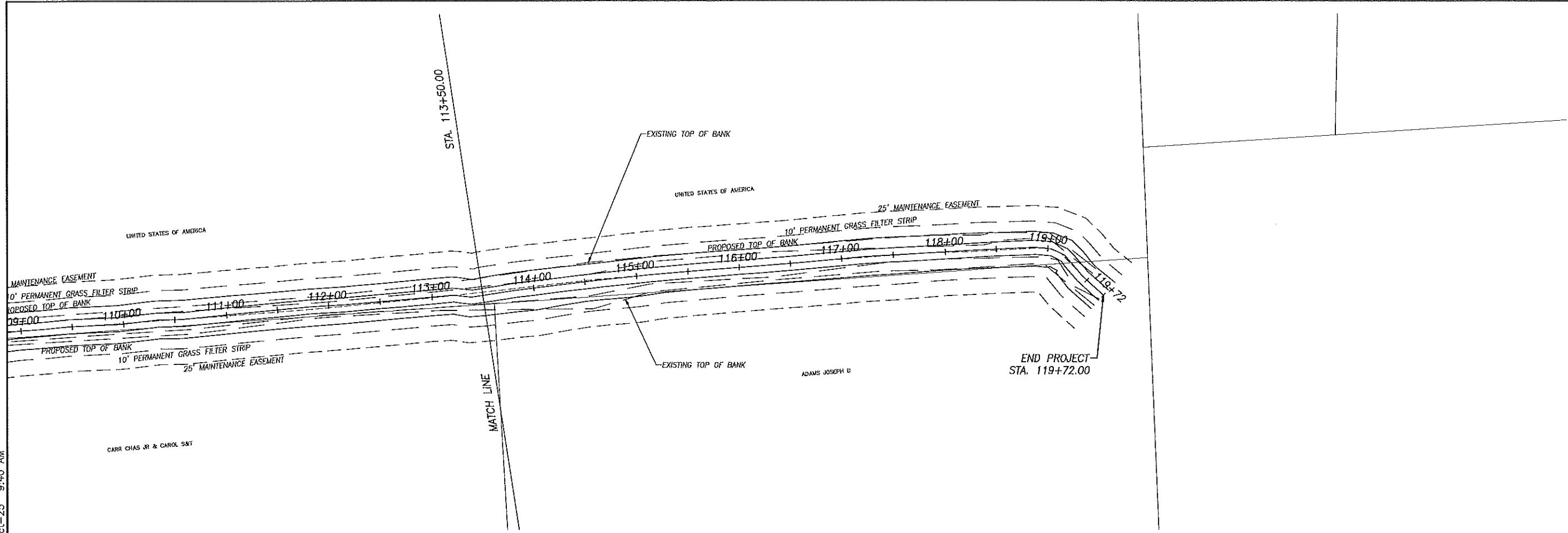


MEHLOW DITCH
OCE 24-017

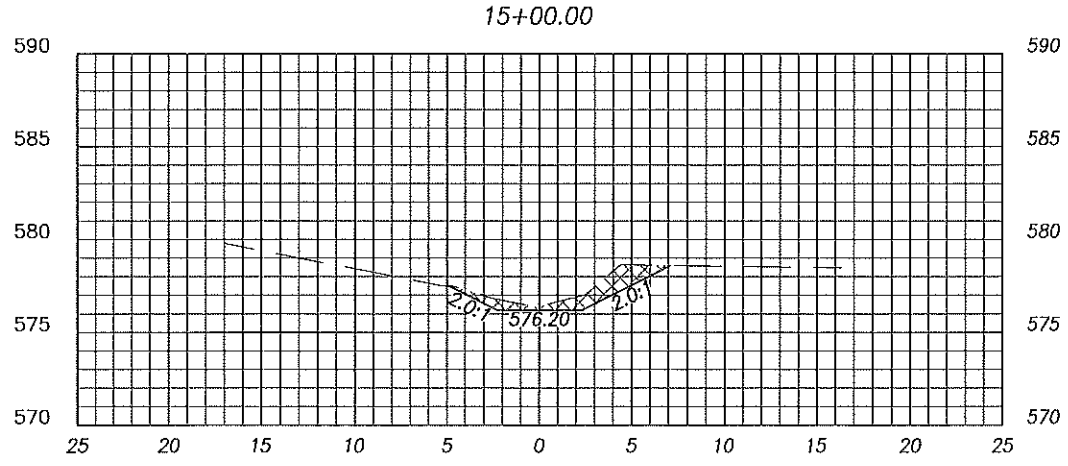
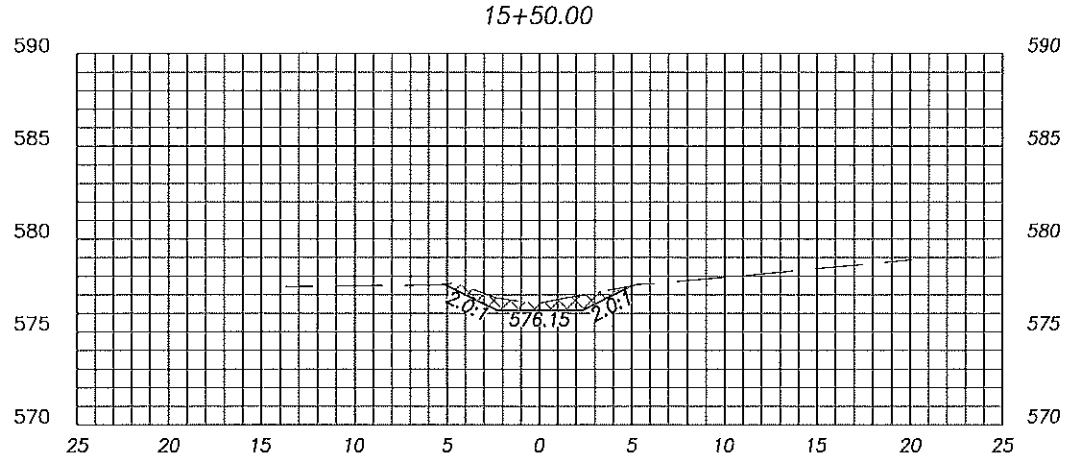
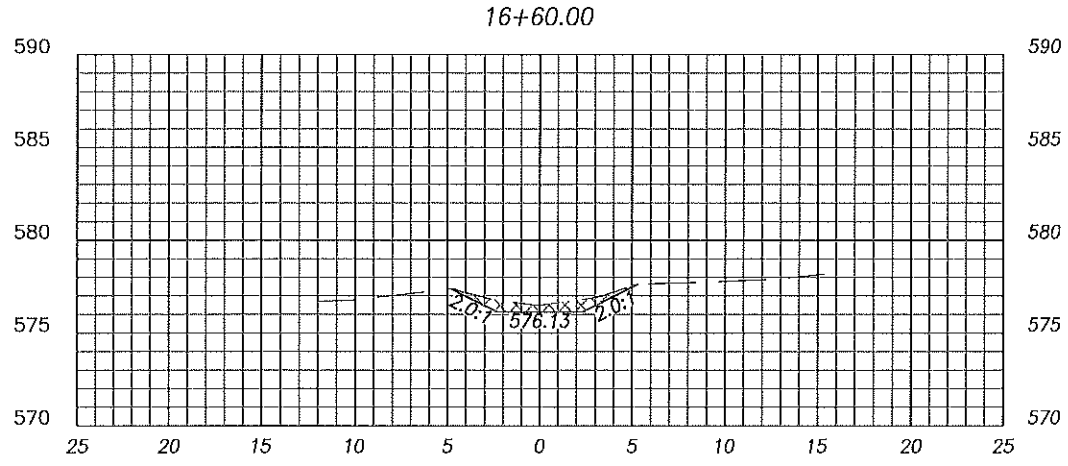
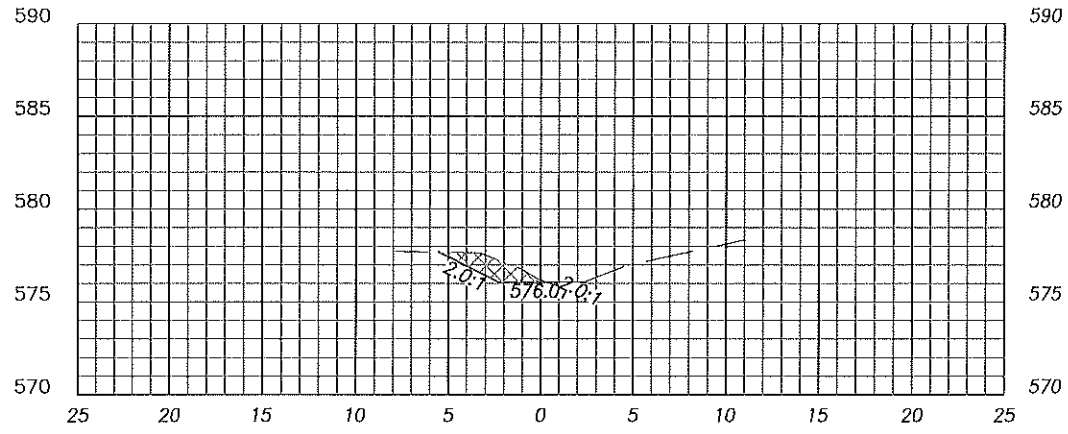
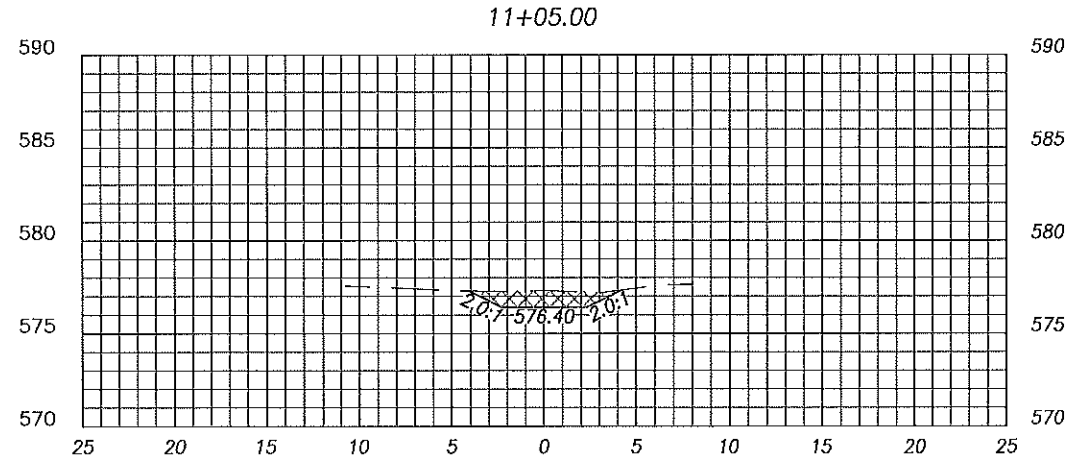
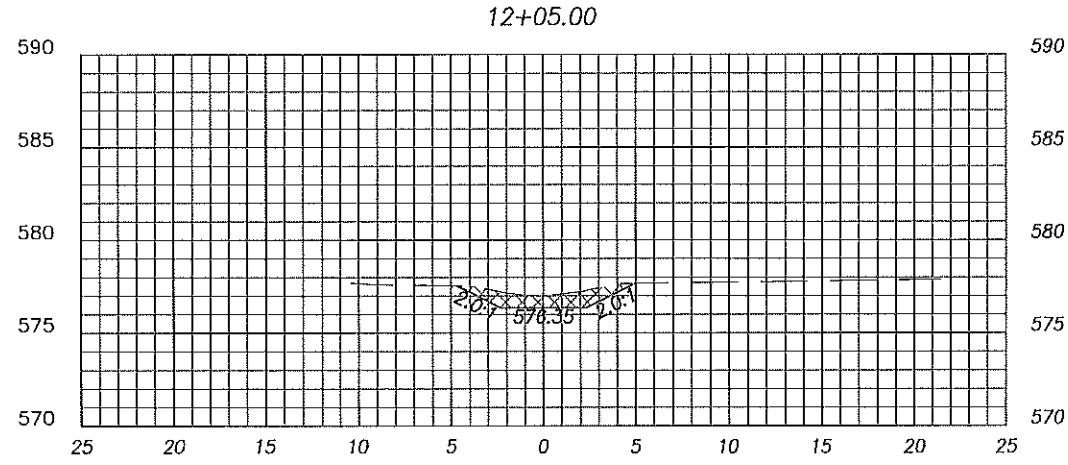
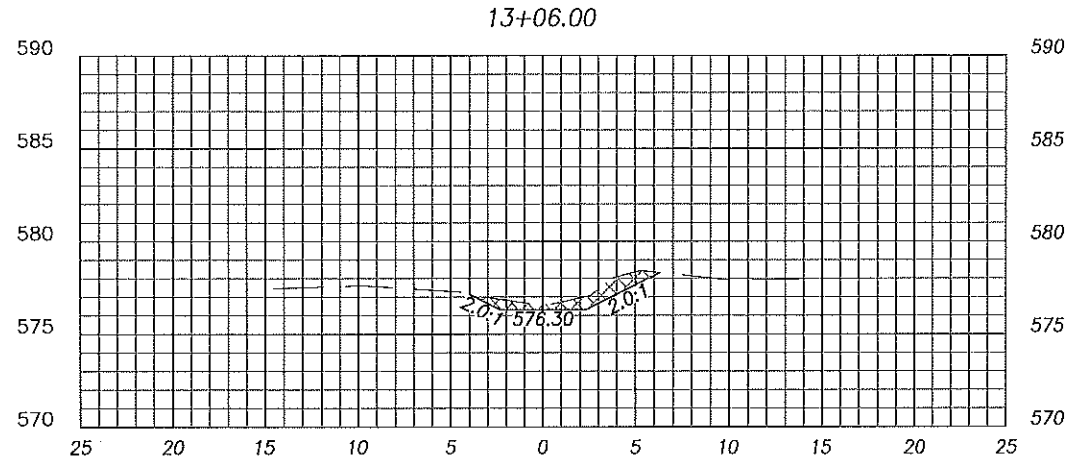
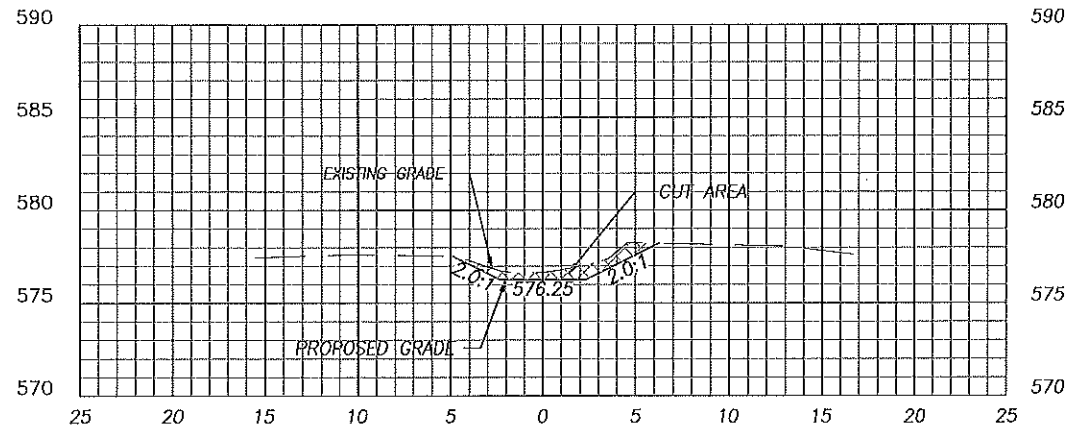




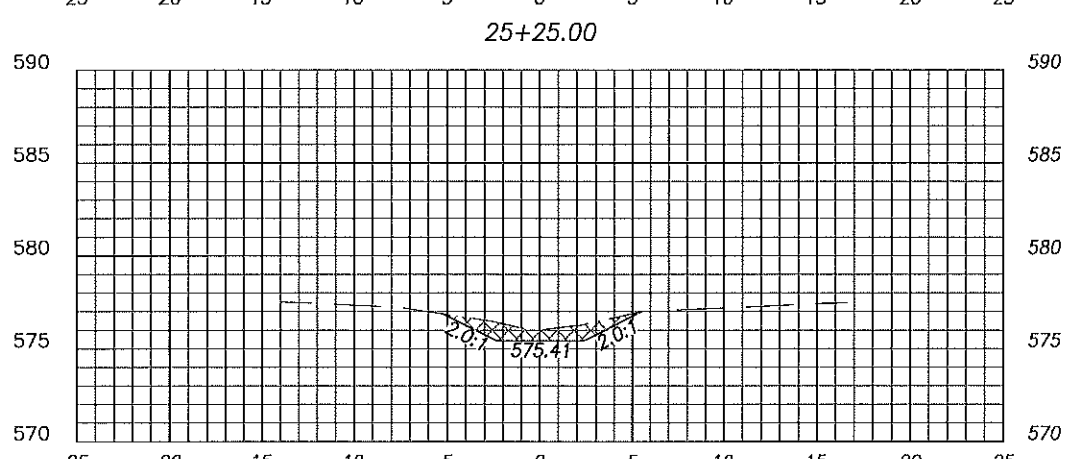
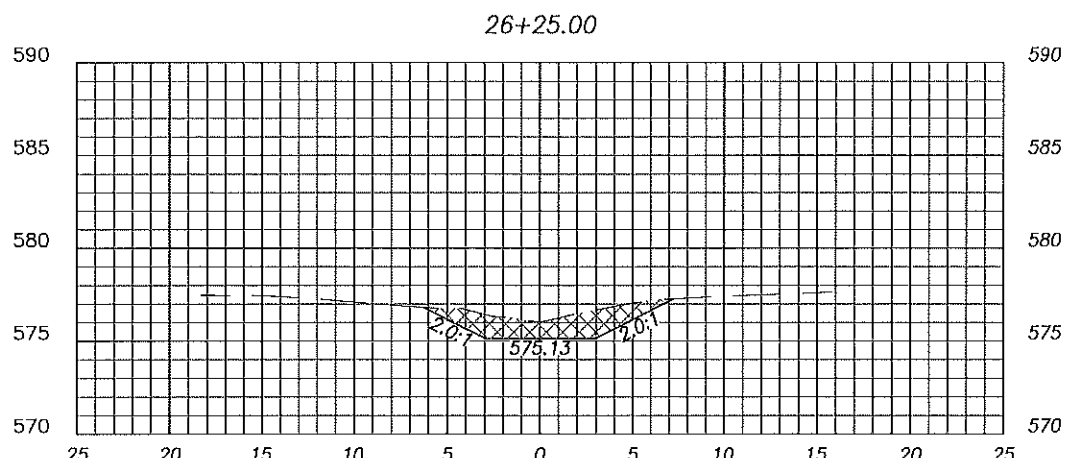
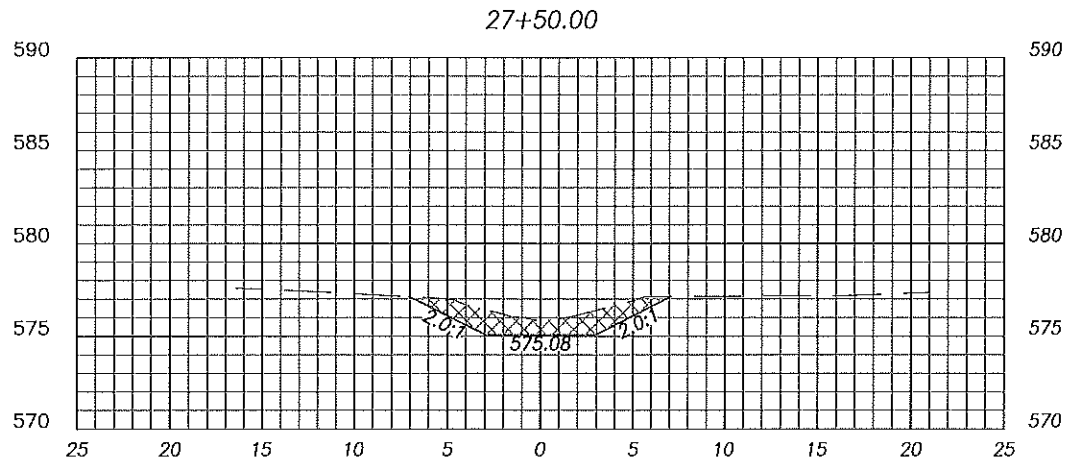
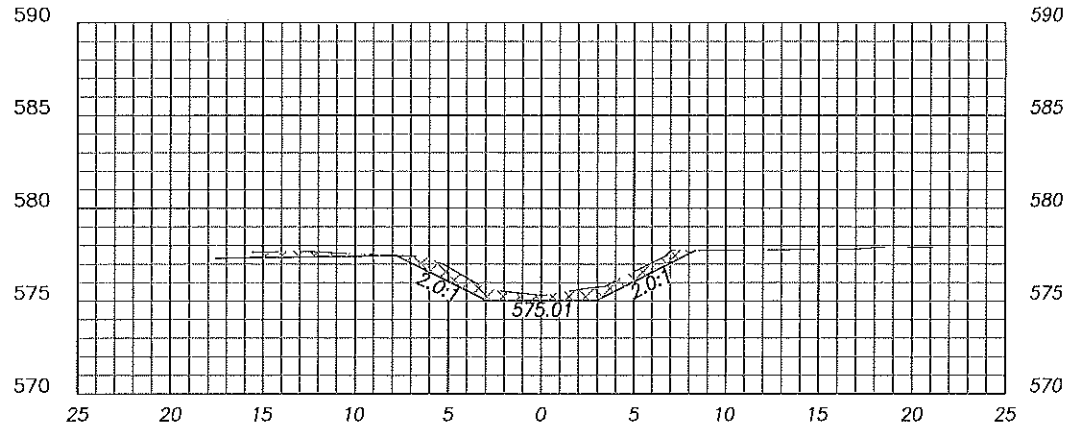
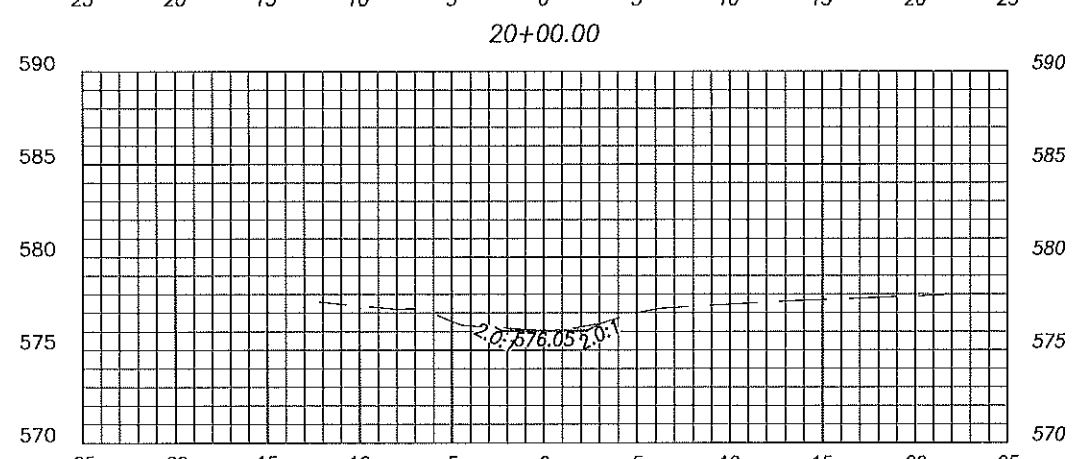
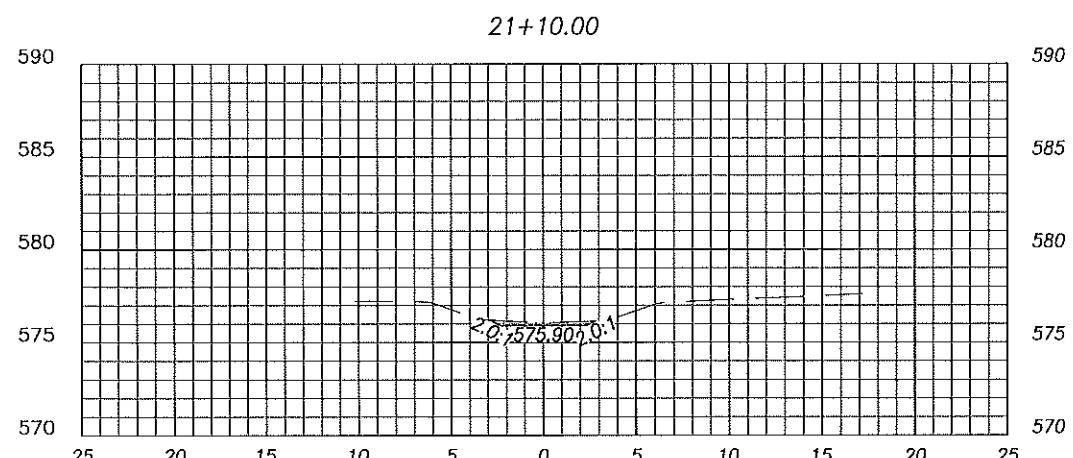
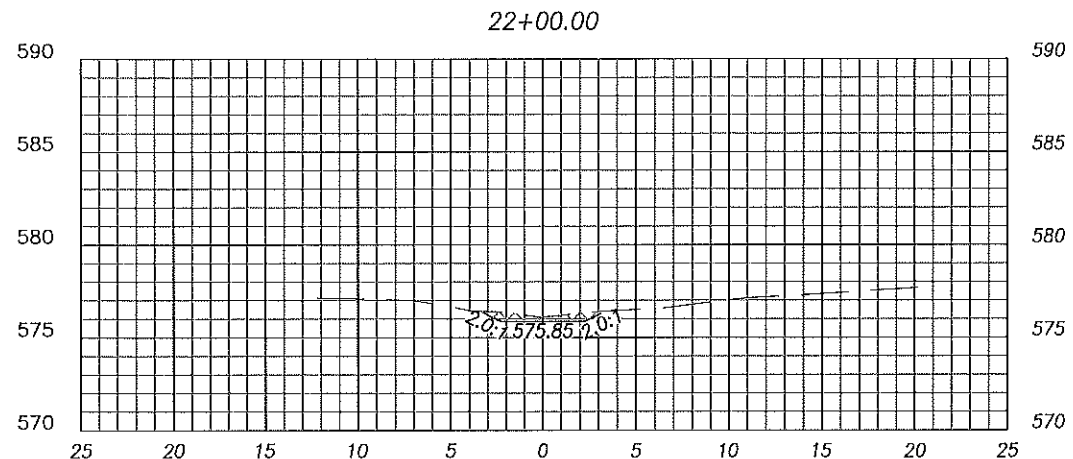
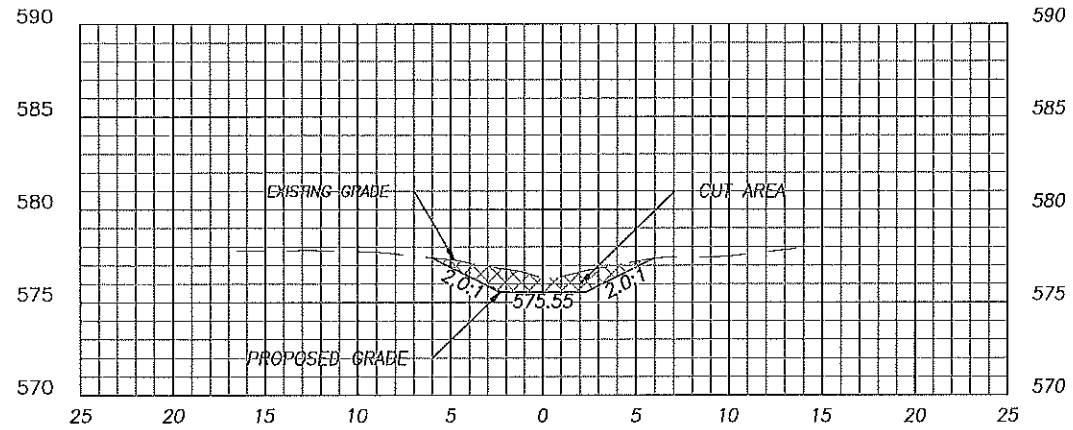
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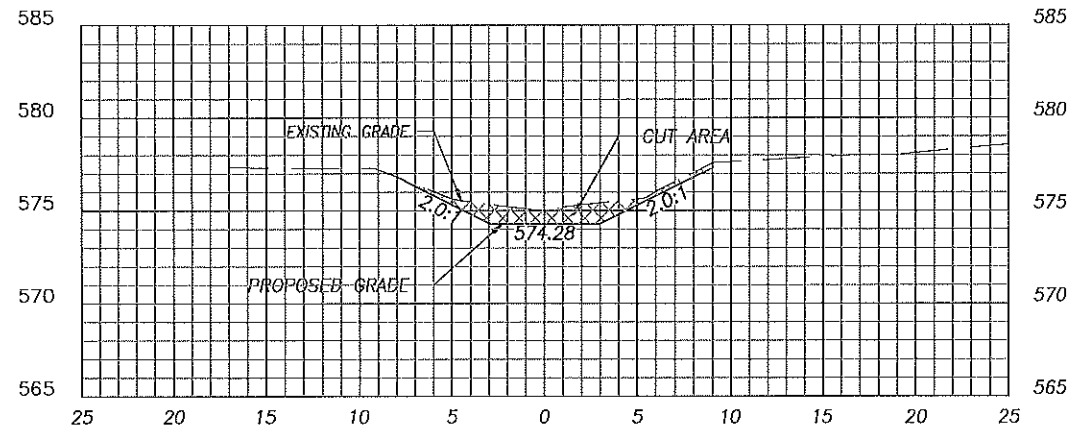
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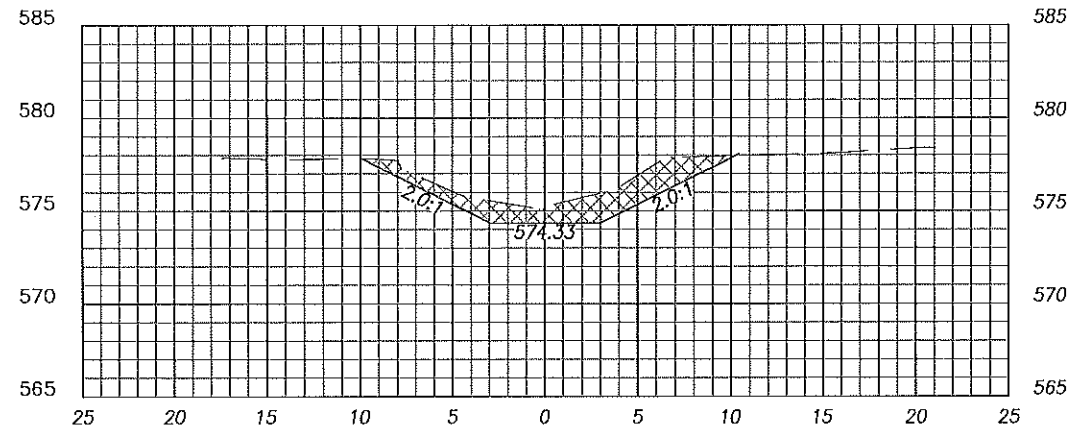
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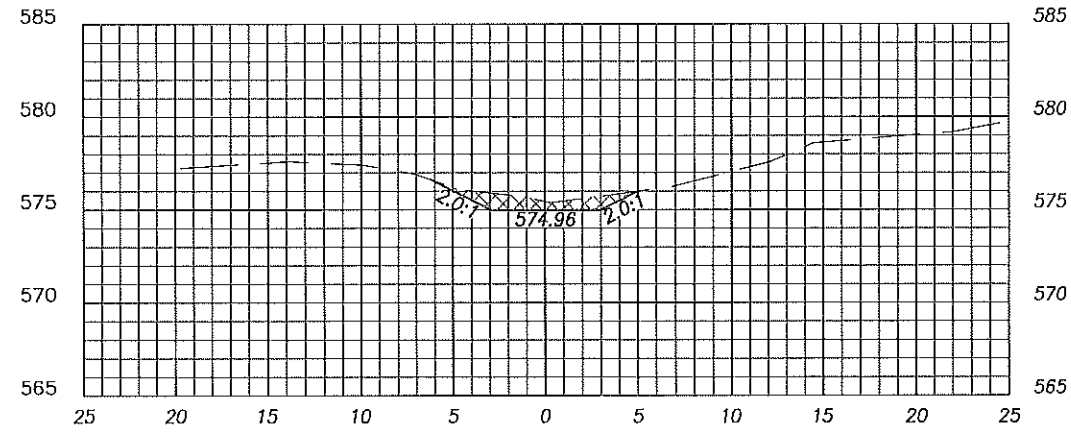
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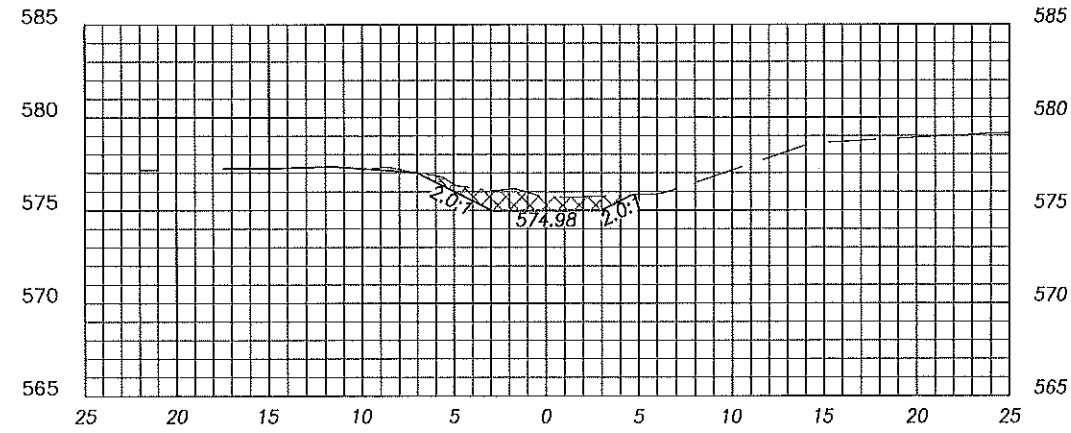
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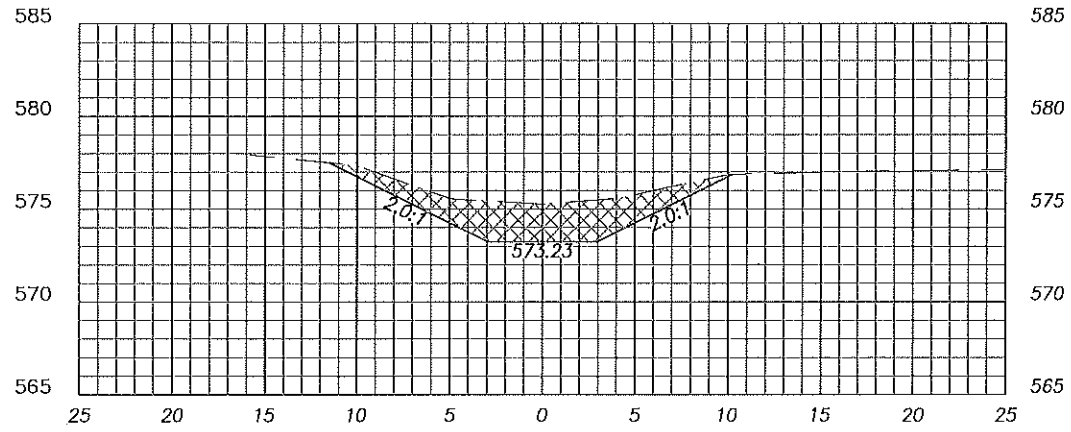
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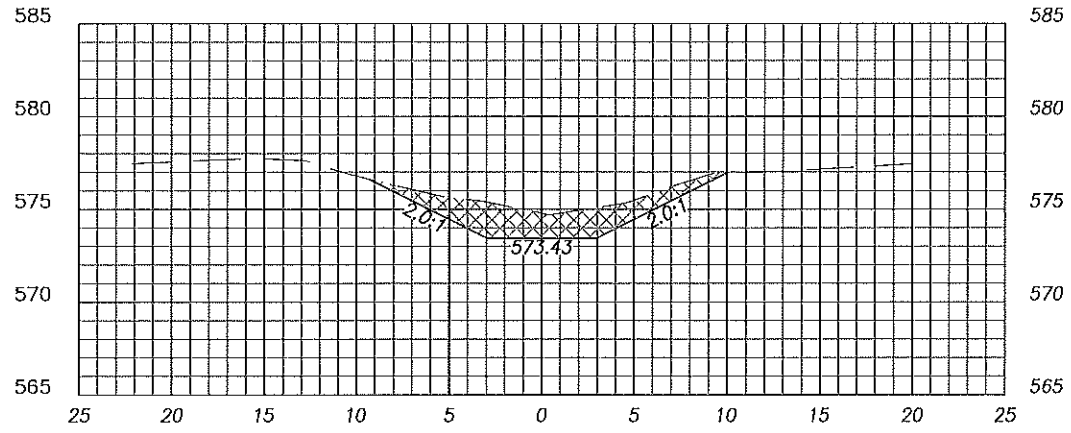
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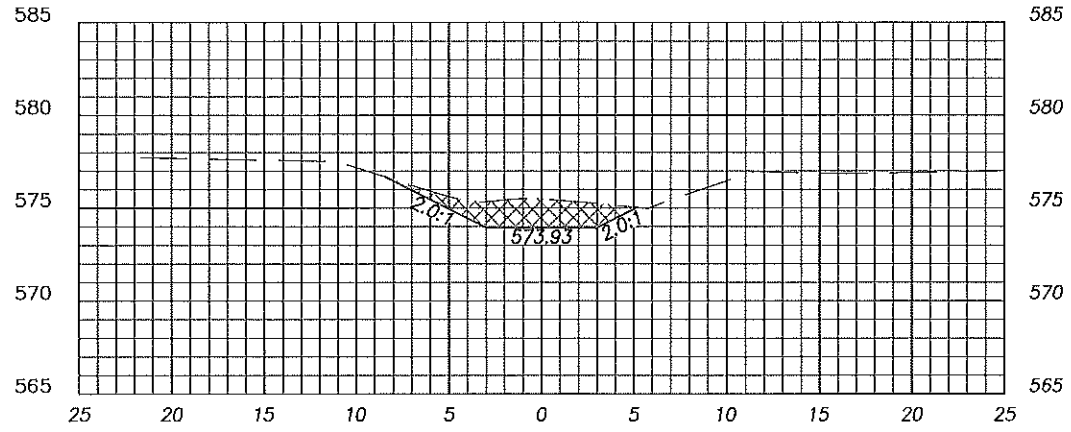
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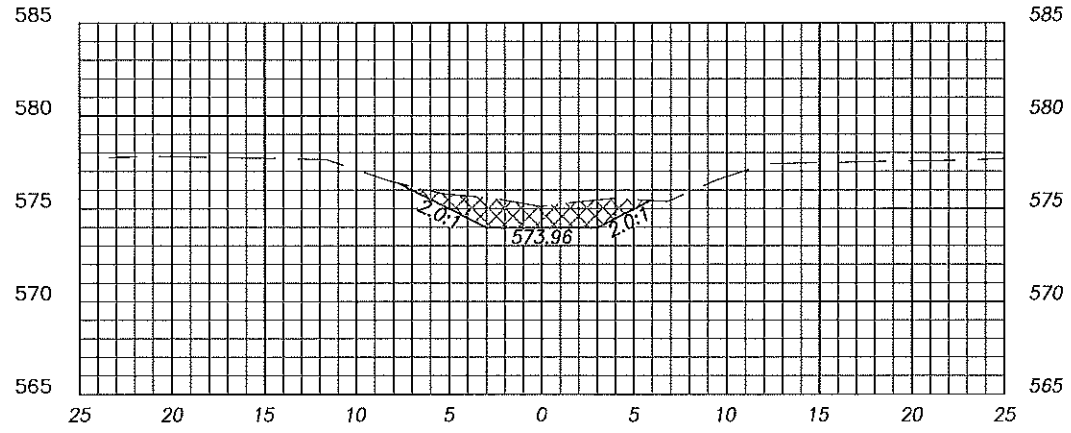
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40+00.00

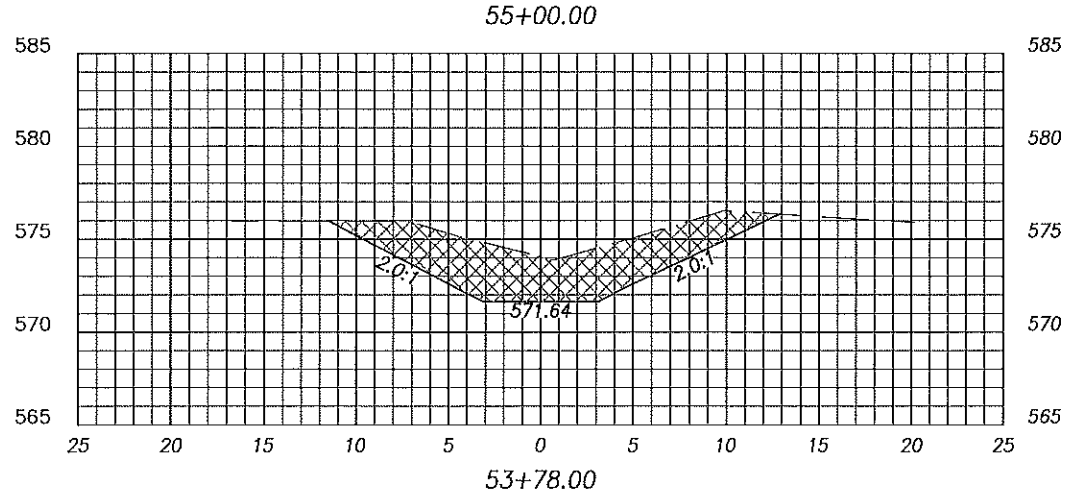
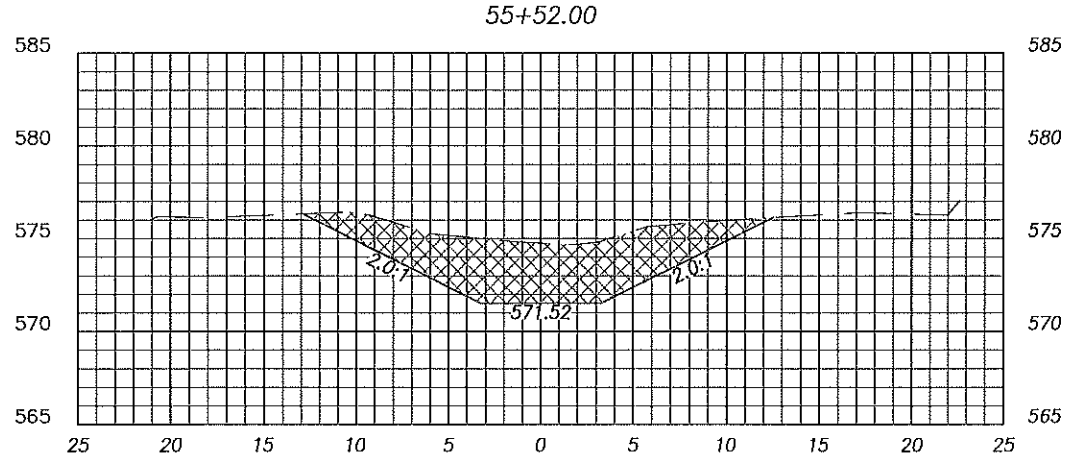
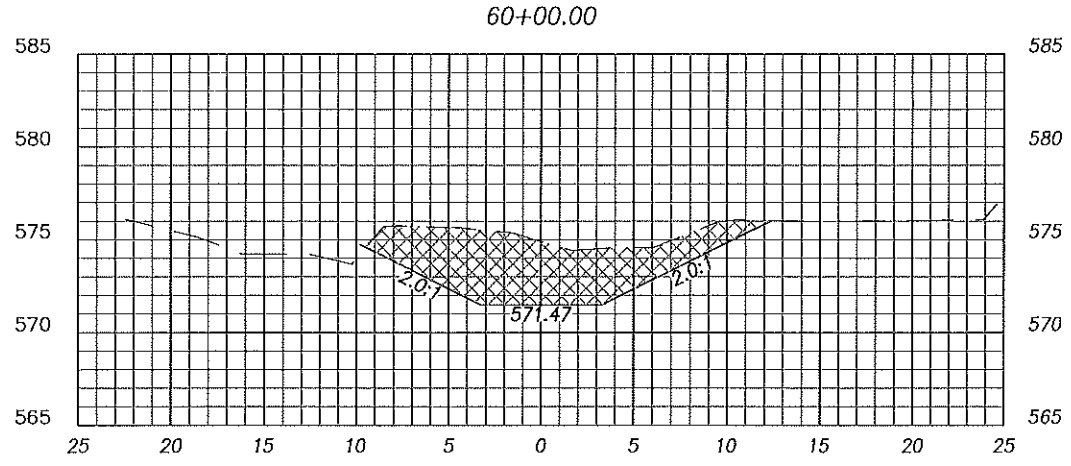
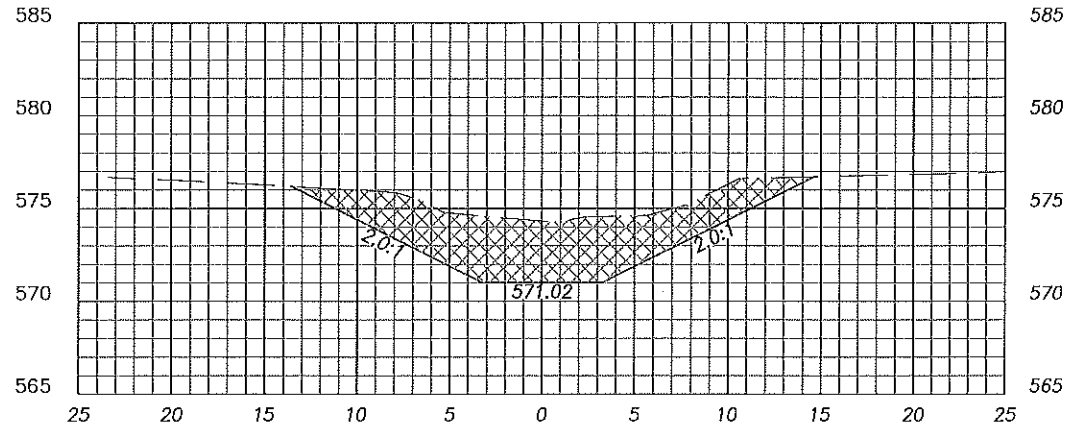
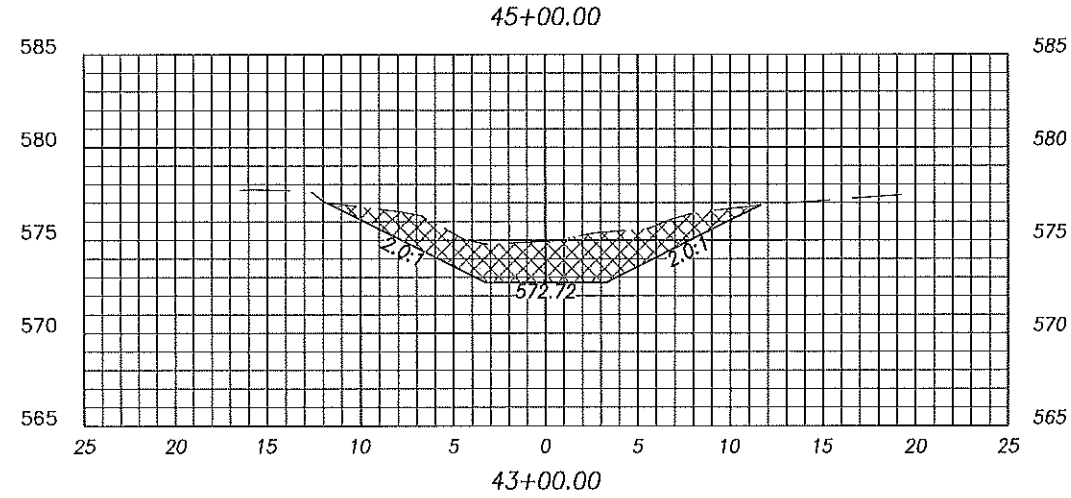
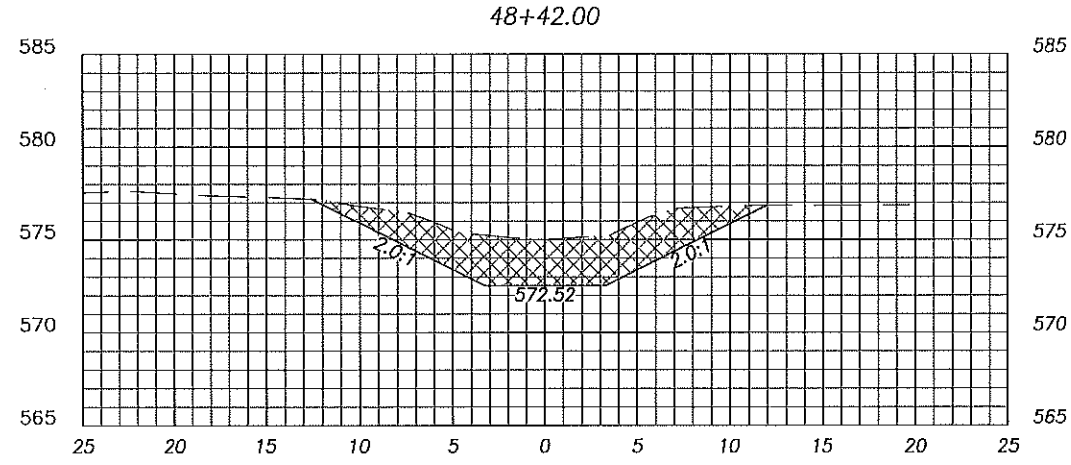
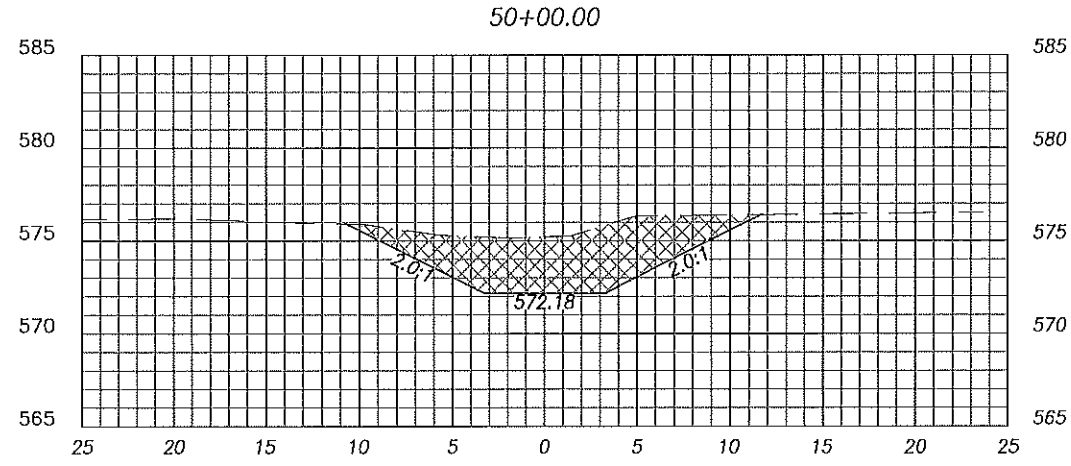
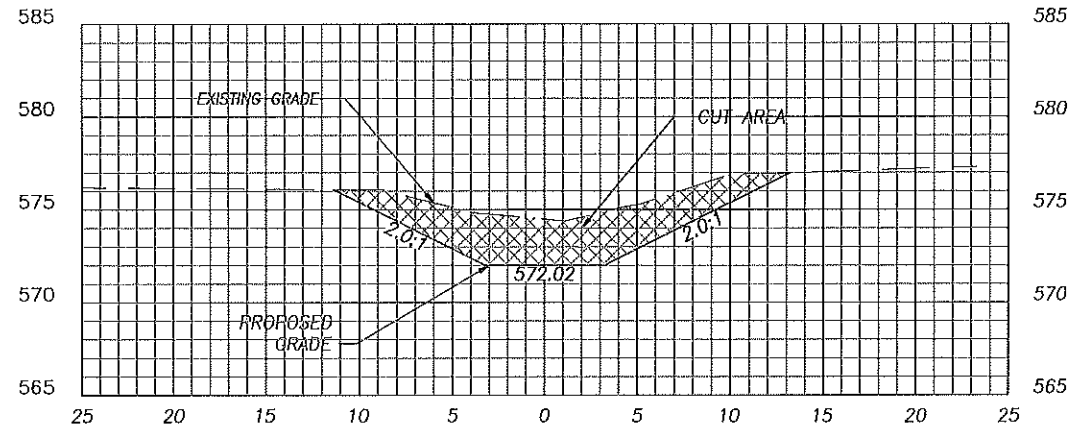


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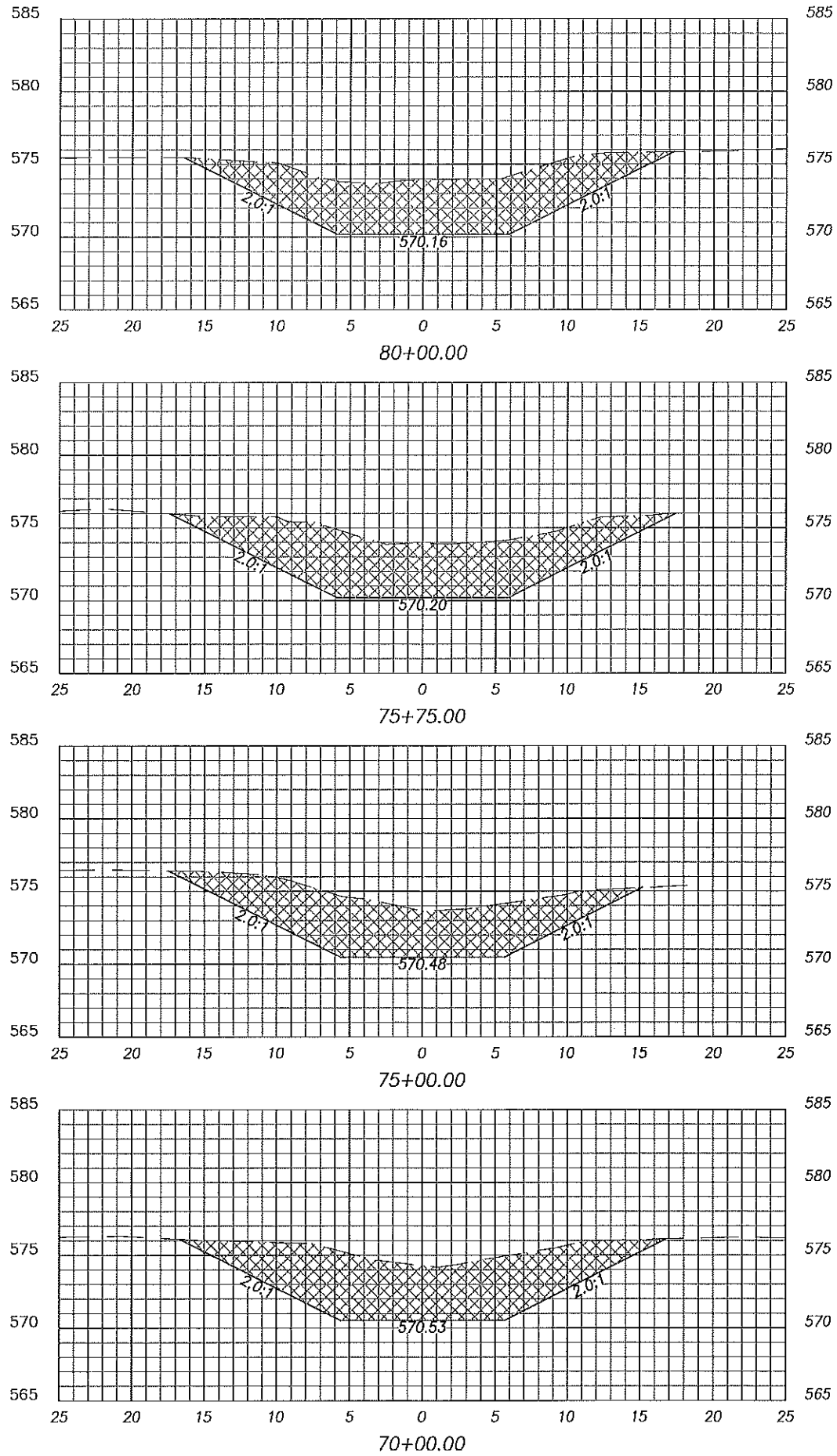
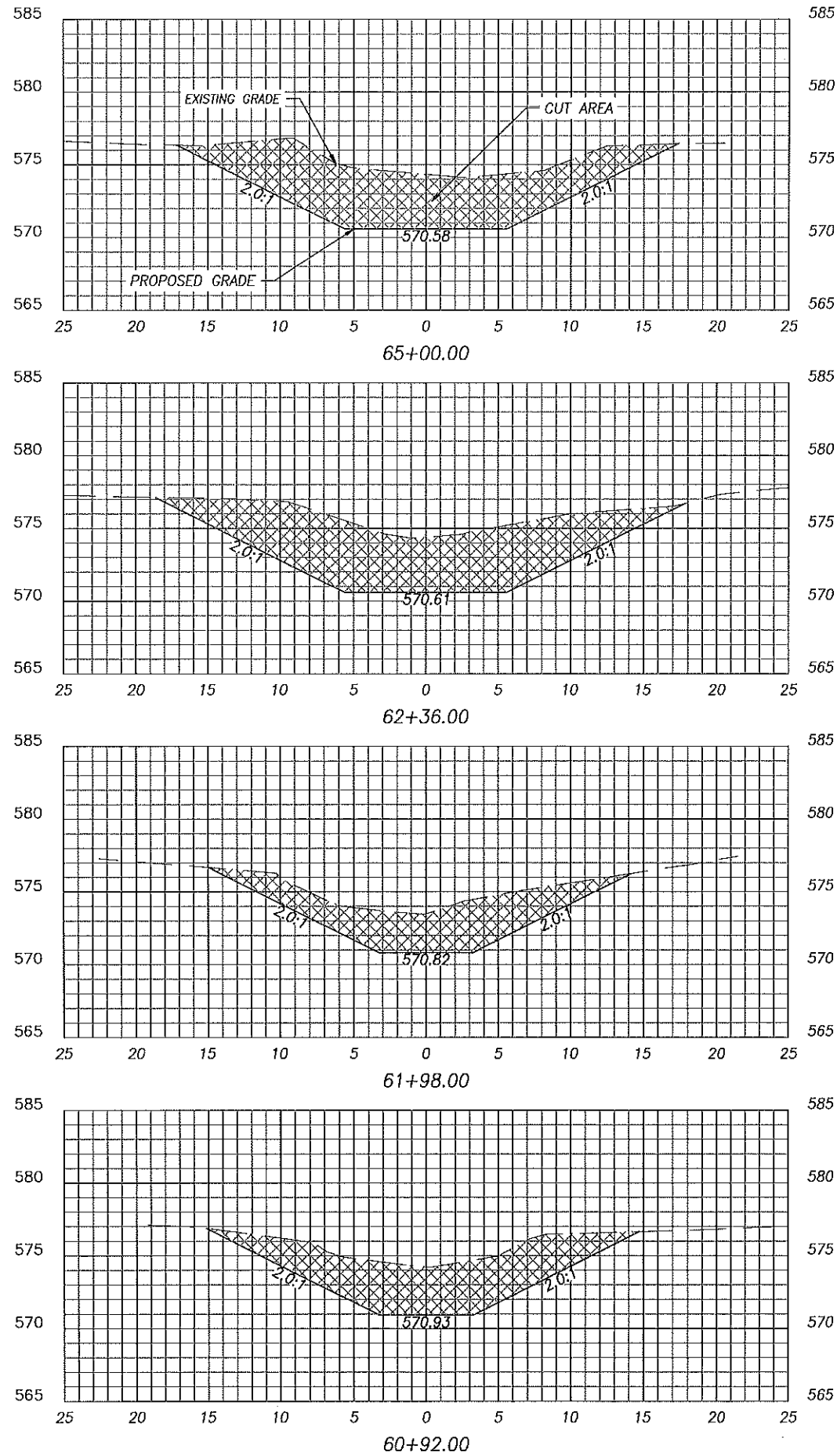


34+70.00

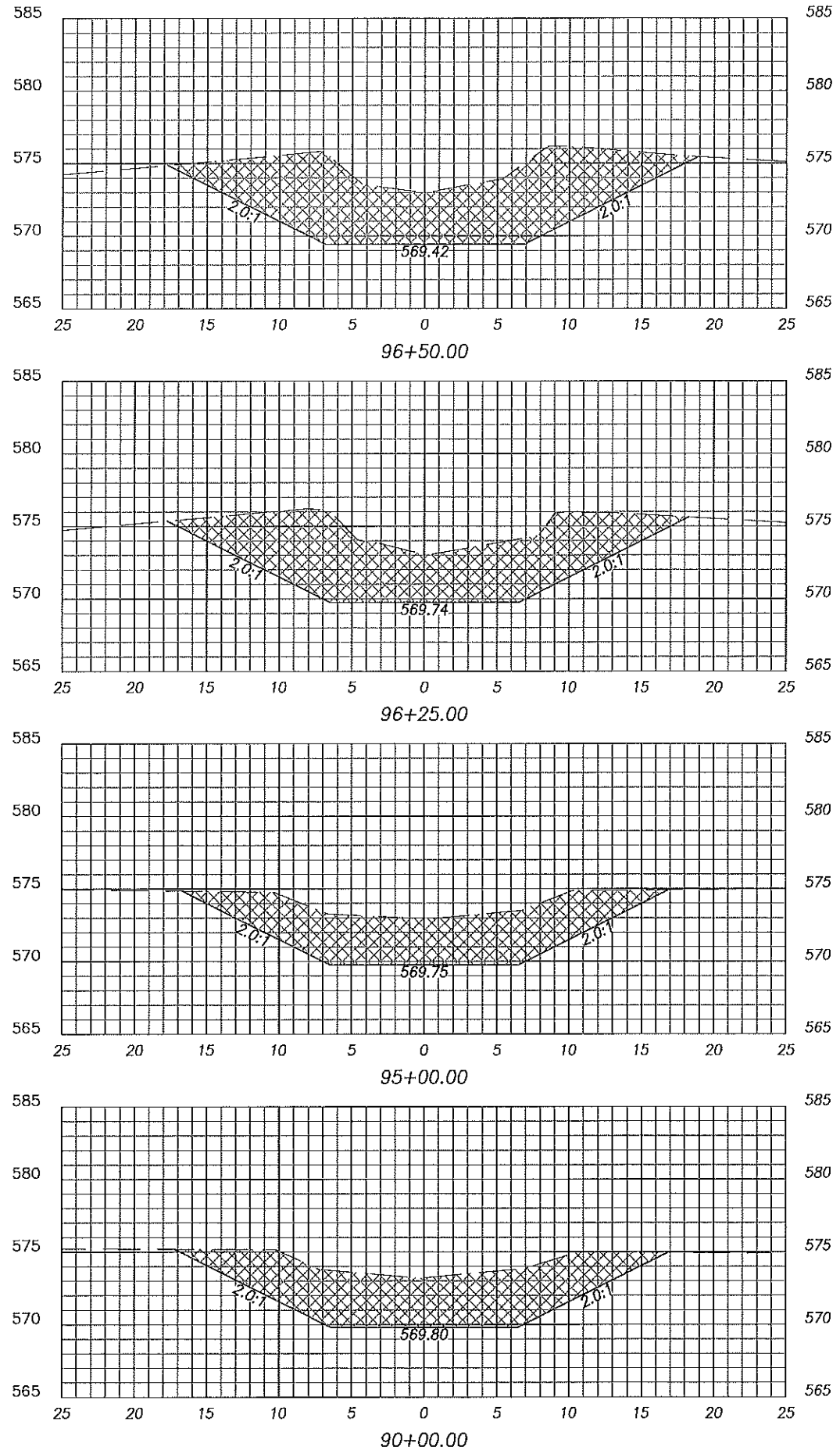
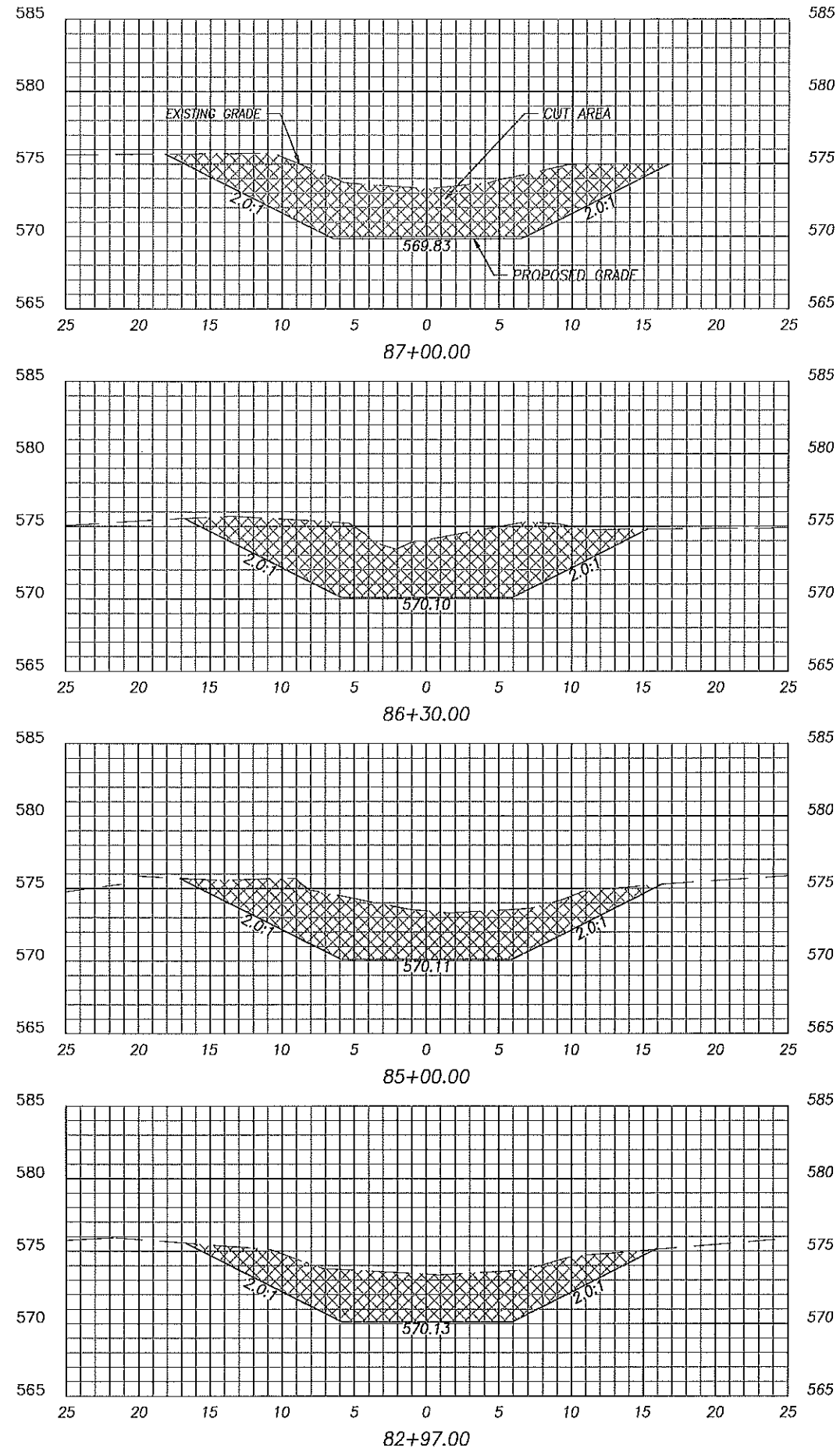
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