GENERAL NOTES

UTILITIES

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

CITY OF CONNEAUT PUBLIC WORKS
(BRIDGE STREET LIGHTING)
285 16TH STREET
CONNEAUT, OHIO 44030
(440) 593-7430
ATTN: JOE DIBELL

THE ILLUMINATING COMPANY
6896 MILLER RD., SUITE 101
BRECKSVILLE, OH 44141
(440) 546-8706
ATTN: JOHN ZASSICK

GREAT WAVE COMMUNICATIONS
224 STATE ST.
CONNEAUT, OH 44030
(440) 593-7100
ATTN: DON ZAPPITELLI

DOMINION ENERGY OHIO
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
(330) 664-2409
ATTN: BILL SNYDER

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED BY 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.

ITEM 201, 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.

STRUCTURE PAINTING/SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING CONNEAUT CREEK AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

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.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS 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 7:00 PM AND 7:00 AM. 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.

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

THE USE OF VIBRATORY COMPACTION EQUIPMENT IS PROHIBITED.

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

THE USE OF GRAVEL FOR COARSE VIRGIN AGGREGATE IS PROHIBITED.

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED ON SCD BP-3.1 AND IN 401.15, TH CONTRACTOR SHALL SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS,
MANHOLES, WATER VALVES, CATCH BASINS, CURB INTLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- BUTT JOINT BETWEEN PAVED SHOULDER AND DRIVEWAY ASPHALT AND TAPERED EDGE WHEN FEATHERING TO AN EXISTING ASPHALT DRIVEWAY.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.

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

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

ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) AS PER PLAN, PG64-22

THE USE OF VIBRATORY COMPACTION EQUIPMENT IS PROHIBITED.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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

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

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

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

STREAM AVOIDANCE - CONNEAUT CREEK

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT CONNEAUT CREEK. NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PREFORMED IN CONNEAUT CREEK. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN CONNEAUT CREEK.

ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN:

THIS ITEM SHALL CONSIST OF FURNISHING TERMINAL ASSEMBLIES WITH RADII SHOWN ON SHEET 11 OF 24.

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GENERAL NOTES

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4
24

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		4	6		8	9		12					02/BRF/BR						
																		ROADWAY	
		LS											LS	201	11000	LS		CLEARING AND GRUBBING	
					27								27	202	23000	27	SY	PAVEMENT REMOVED	
						225							225	202	38000	225	FT	GUARDRAIL REMOVED	
						3							3	202	42000	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
						11							11	203	10000	11	CY	EXCAVATION	
					48								48	204	10000	48	SY	SUBGRADE COMPACTION	
						63							63	606	15050	63	FT	GUARDRAIL, TYPE MGS	
						3							3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	
						2							2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						2							2	606	35003	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN	4
																		EROSION CONTROL	
													1,000	832	30000	1,000	EACH	EROSION CONTROL	
																		PAVEMENT	
					11								11	304	20000	11	CY	AGGREGATE BASE	
					5								5	407	10000	5	GAL	TACK COAT	
					72								72	409	30000	72	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	
					2								2	441	50101	2	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M	4
					5								5	441	50301	5	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22	4
																		STRUCTURE OVER 20 FOOT SPAN (SFN 0461296)	
								23					23	202	22901	23	SY	APPROACH SLAB REMOVED, AS PER PLAN	12
								405					405	202	23501	405	SY	WEARING COURSE REMOVED, AS PER PLAN	12
								325					325	202	38500	325	FT	BRIDGE RAILING REMOVED	
								52					52	407	10000	52	GAL	TACK COAT	
								15					15	441	50101	15	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M	12
								27					27	441	50301	27	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN, PG64-22	12
								50					50	509	20000	50	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								104					104	512	10100	104	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								410					410	512	33010	410	SY	TYPE 3 WATERPROOFING	
								24					24	516	31000	24	FT	JOINT SEALER	
								325					325	517	72307	325	FT	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS), AS PER PLAN	12
								373					373	SPECIAL	51822300	373	FT	STEEL DRIP STRIP	22
								68					68	519	11100	68	SF	PATCHING CONCRETE STRUCTURE	
								23					23	526	25001	23	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	12
								249					249	SPECIAL	53000600	249	SF	STRUCTURES: STONE MASONRY REPAIR	13
								2					2	SPECIAL	53001100	2	CY	STRUCTURES: STONE MASONRY REPLACEMENT	13
								712					712	SPECIAL	53001300	712	FT	STRUCTURES: MASONRY REPOINTING	13
																		MAINTENANCE OF TRAFFIC	
			5										5	410	12000	5	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
			LS										LS	614	12420	LS		DETOUR SIGNING	
			5										5	614	13000	5	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			4										4	614	18601	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
			10										10	616	10000	10	MGAL	WATER	
																		INCIDENTALS	
			LS										LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

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GENERAL SUMMARY

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REF NO.	SHEET NO.	STATION TO STATION		SIDE	202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE A	203 EXCAVATION	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN
		FROM	TO		FT	EACH	CY	FT	EACH	EACH	EACH
R1	11	9+62	9+88	LT		1					
R2	11	9+88	10+25.5	LT	37.5						
R3	11	11+88	12+50.5	LT	62.5						
R4	11	12+50.5	12+77.5	LT		1					
R5	11	9+50.5	10+25.5	RT	75						
R6	11	11+88	12+38	RT	50						
R7	11	12+38	12+64	RT		1					
GR-1	11	9+48.5	10+00.5	LT					1		
GR-2	11	10+00.5	10+25.5	LT							1
GR-3	11	11+88	12+13	LT							1
GR-4	11	12+13	12+25.50	LT				12.5			
GR-5	11	12+25.50	12+78	LT					1		
GR-6	11	9+50.5	10+00.5	RT				50			
GR-7	11	10+00.5	10+25.5	RT						1	
GR-8	11	11+88	12+13	RT						1	
GR-9	11	12+13	12+65	RT					1		
EXC-1	11	11+79.29	11+87.29	LT/RT			4				
EXC-2	11	11+87.29	11+97.29	LT/RT			7				
TOTALS CARRIED TO GENERAL SUMMARY					225	3	11	63	3	2	2

NOTE: STATIONS ON THIS TABLE ARE REFERENCED FROM THE FIRST AND LAST BRIDGE GUARDRAIL POSTS ON A BOX BEAM. THE ANCHOR BOLTS FOR THESE POSTS ARE BEING INCORPORATED IN THE NEW WORK. (SEE GENERAL PLAN SHEET 10 OF 24 FOR THESE STATIONS)

ITEM 203 - EXCAVATION

EXC-1: FROM STA. 11+79.29 TO STA. 11+87.29 = 8.0'
AREA= 0.5 X (24.0' + 27.2') X 8.0' = 204.8 SF
VOLUME= 204.8 SF X 0.5' = 102.4 CF ÷ 27 = 4 CY

EXC-2: FROM STA. 11+87.29 TO STA. 11+97.29 = 10.0'
AREA= 10.0' X 24.0' = 240.0 SF
VOLUME= 240.0 SF X 0.75' = 180.0 CF ÷ 27 = 7 CY

EXCAVATION TOTAL= 4 CY + 7 CY = 11 CY

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ROADWAY SUBSUMMARY

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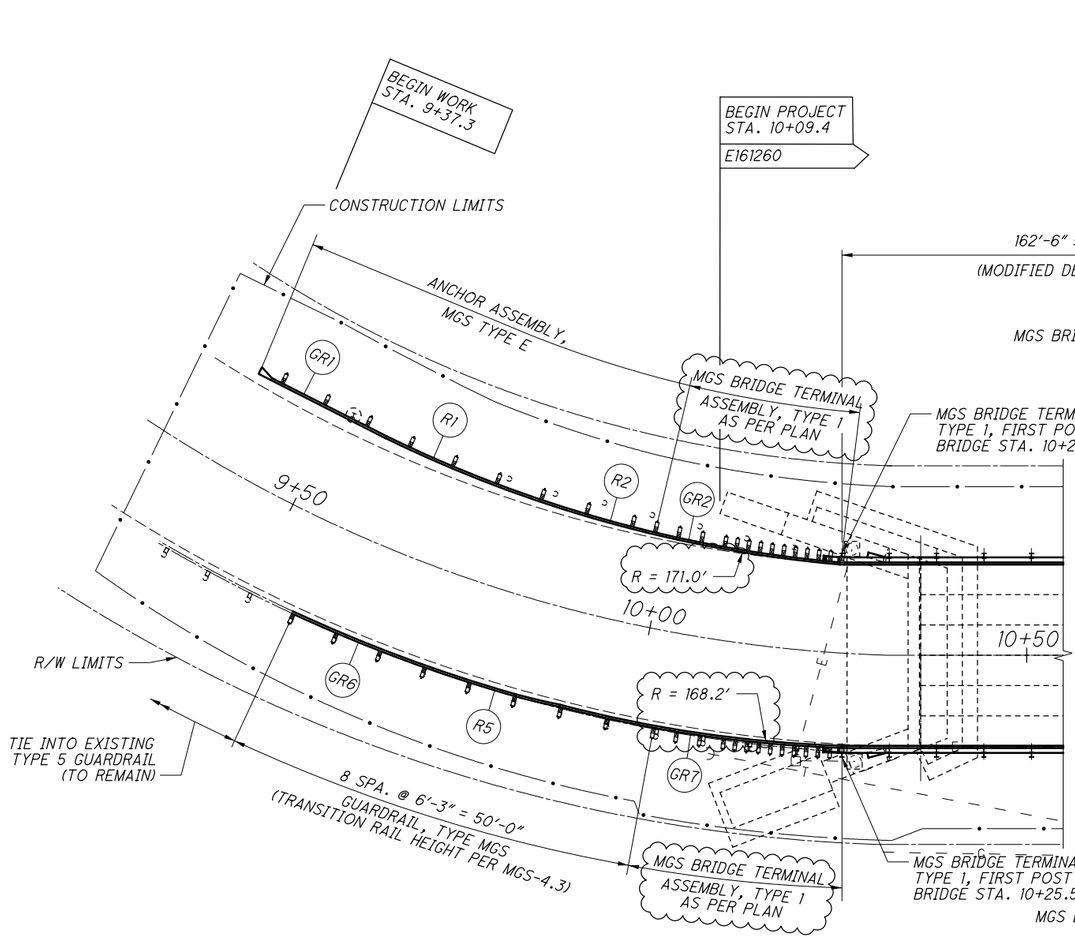
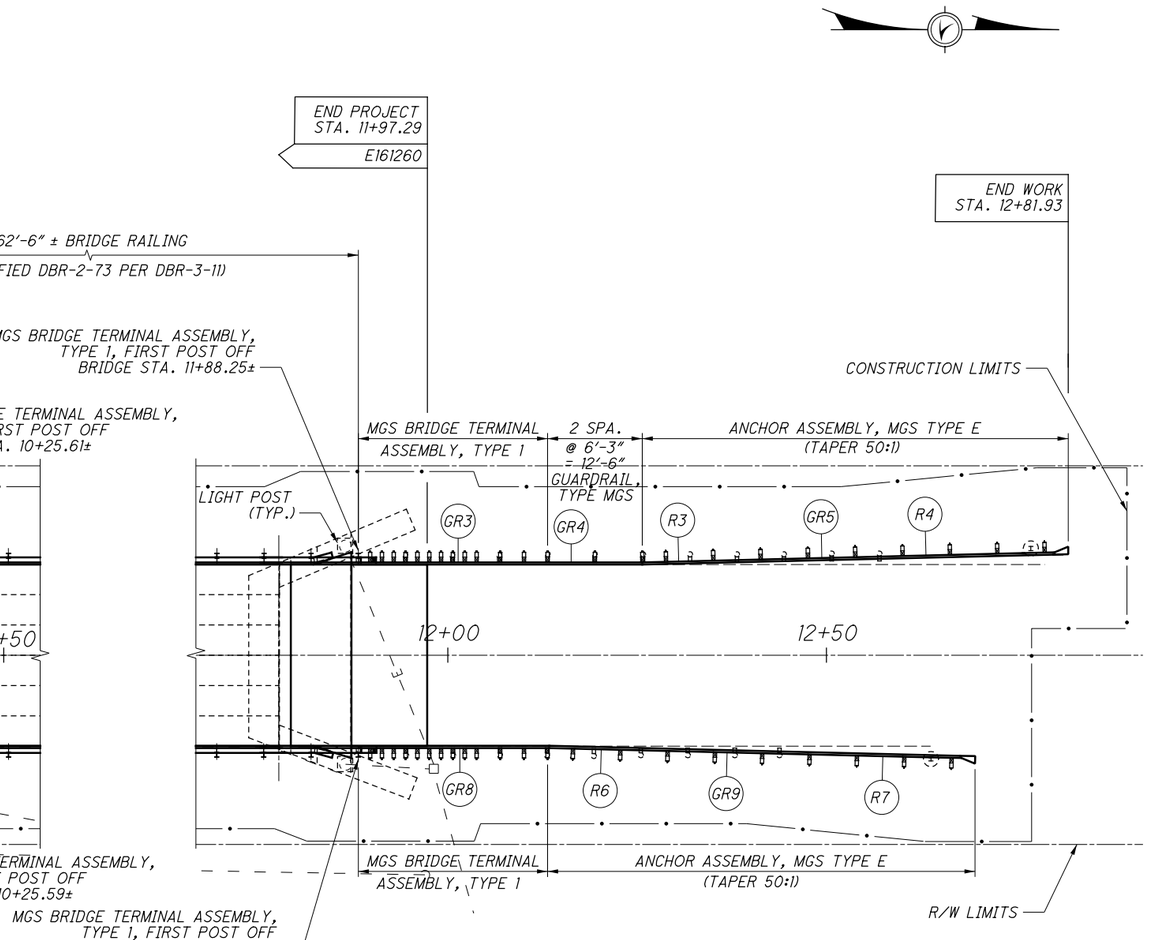


REAR APPROACH RAILING PLAN



FORWARD APPROACH RAILING PLAN

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DESIGN AGENCY
engineers
architects
planners
XXX

DESIGNED	DRAWN	REVIEWED	DATE
SAT	SAT	TAB	11/13/20
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JPR	XXX	0461296	

APPROACH ROADWAY GUARDRAIL POST LAYOUT
BRIDGE ATB-CENTER-0000 REHABILITATION
OVER CONNEAUT CREEK

ATB-US-20-21.86
PID No. 98903

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11 / 24