ROUNDING

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

UTILITY OWNERSHIP

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

BUCKEYE CABLE SYSTEM
2700 OREGON ROAD
TOLEDO, OH 43615
(419) 724-3713

TOLEDO EDISON-DISTRIBUTION
6099 ANGOLA RD.
HOLLAND, OH 43528
(419) 249-5218

FIRST ENERGY CORP.-TRANSMISSION
76 S. MAIN ST.
AKRON, OH 44308
(330) 384-4835

COLUMBIA GAS OF OHIO
2901 E. MANHATTAN BLVD.,
TOLEDO, OH 43611
(419) 539-6067

NORTH COAST GAS TRANSMISSIONS
445 HUTCHINSON AVE. SUITE 830
COLUMBUS, OH 43235-8614
(614) 505-7418

TRANSCANADA/ANR
6357 ST. RT. 66 N.
DEFIANCE OH, 43512
(419) 783-3136

LEVEL3 COMMUNICATION
1025 ELDORADO BLVD,
BROOMFIELD, CO 80021
(720) 888-1089

AT&T
130 N. ERIE ST., ROOM 714
TOLEDO, OH 43624
(419) 245-7304

ODOT DISTRICT 2
317 EAST POE ROAD
BOWLING GREEN, OH 43403
(419) 353-8131

CITY OF MAUMEE
DEPARTMENT OF PUBLIC SERVICE
400 CONANT STREET
MAUMEE, OHIO 43537
(419) 897-7150

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.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 22.

UNRECORDED UNTREATED NON-STORMWATER DRAINAGE

FURNISH NO CONTINUANCE FOR ANY UNRECORDED UNTREATED NON-STORMWATER DRAINAGE SUCH AS UNTREATED SEPTIC, UNTREATED WASTEWATER, UNTREATED CURTAIN/GRADIENT DRAINS, AND UNTREATED FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. PLUG ANY UNRECORDED UNTREATED NON-STORMWATER DRAINAGE WITH CLASS C CONCRETE AT THE RIGHT OF WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 OR 203 ITEM.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. ALTHOUGH THE CITY OF MAUMEE WILL PERMIT NIGHT WORK FOR THIS PROJECT, THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION-RELATED NOISE BETWEEN THE HOURS OF 8 PM AND 6 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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.
SEE SHEET 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: CORS STATIONS
VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B
HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE
COMBINED SCALE FACTOR: 1.0000480390
ORIGIN OF COORDINATE
SYSTEM: 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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 60 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-387-2346

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 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 10 HOUR

CLEARING AND GRUBBING

3 CITY OF MAUMEE WILL BE REMOVING ALL TREES, TRIMMING THE TREES AND REMOVING ALL BRUSH. PLEASE NOTIFY THE CONSTRUCTION ENGINEER 14 DAYS PRIOR TO THE WORK BEING DONE SO THEY CAN NOTIFY THE CITY.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, 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 STATE.

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 STATE.

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.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

UNDER CUT CONTINGENCY QUANTITY

CONTINGENCY QUANTIES FOR UNDER CUT HAVE BEEN INCLUDED FOR THIS PROJECT. THESE QUANTIES ARE INCLUDED IN THE EVENT OF UNSUITABLE MATERIAL BEING ENCOUNTERED. THE CONTRACTOR SHALL ONLY USE THESE UNDERCUT MATERIAL AT THE DIRECTION OF THE ENGINEER. THE FOLLOWING ITEMS AND QUANTITY ARE PROVIDED IN THE GENERAL SUMMARY TO A ADDRESS LOCATIONS REQUIRING UNDERCUT.

ITEM 204 - EXCAVAVTION OF SUBGRADE 12" DEEP	465 CY
ITEM 204 - GRANULAR METERIAL TYPE B 12" DEEP	465 CY
ITEM 204 - GEOTEXTILE FABRIC	1393 SY

3 **ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN**

THE SHARED USE PATH SHALL BE STAKED PRIOR TO BEGINNING ANY WORK IN THE SHARED USE PATH AREA.

CALCULATED XXX CHECKED XXX

GENERAL NOTES

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SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST 3 EACH

659, TOPSOIL 3836 CU. YD.

659, SEEDING AND MULCHING 34533 SQ. YD.

659, REPAIR SEEDING AND MULCHING 1728 SQ. YD

659, INTER-SEEDING 1728 SQ. YD.

659, COMMERCIAL FERTILIZER 4.89 TON

659, LIME 7.14 ACRES

659, WATER 140 M. GAL.

659, MOWING 311 M. SQ. FT.

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.

MOWING: IN ADDITION TO THE PROVISIONS OF 659.19, THE CONTRACTOR SHALL MOW GRASS AS DIRECTED BY THE ENGINEER WITH A MAXIMUM DURATION OF 10 DAYS BETWEEN MOWING. THE ENGINEER MAY EXCEED THIS REQUIREMENT BASED ON FIELD CONDITIONS. MOW TO A FINAL CUTTING HEIGHT OF 3 INCHES.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. IF THERE IS UNSUITABLE SUBGRADE UNIDENTIFIED BY THE ENGINEER, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE SHAPING THE SUBGRADE
3. COMPACT THE SUBGRADE ACCORDING TO 204.03.
4. THE ENGINEER WILL IDENTIFY THE LIMITS OF EXCAVATION FOR ANY UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

EXISTING UNDERDRAINS

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

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

611 6" CONDUIT, TYPE F, FOR UNDERDRAIN OUTLETS 50 FT.

605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP 50 FT.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203 OR IT MAY BE REMOVED. A CONTINGENCY QUANTITY OF THIS ITEM HAS BEEN INCLUDED IN THE PLANS TO BE USED AS DIRECTED BY THE ENGINEER, AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY CITY FORCES. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

EXISTING PLANS

EXISTING PLANS:
1934, TOLEDO-WATERVILLE ROAD S.H. 697
1939, W.P.A. S.H. 697
1940, S.H. 697 MAUMEE
1964, LUC-24-15.86
1990, LUC-24-16.02
1994, LUC-24-15.90
1999, LUC-20/24-29.796/25.724
2003, LUC-24-15.87

ARE AVAILABLE ONLINE AT (URL WILL BE PROVIDED W/ TRACINGS)

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

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

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLANS.

CENTERLINE MONUMENTS TO BE SET

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

PROPOSED MONUMENTS TABLE

℄ OF PROP. R/W U.S.R. 24		PROJECT COORDINATES SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET DURING CONSTRUCTION	
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	DESCRIPTION
871+74.03	℄	692691.224	1649627.544	1	Mon. Assy. Set of centerline of R/W
871+99.50	℄	692700.493	1649651.256	1	Mon. Assy. Set of centerline of R/W
902+34.79	℄	693809.865	1652476.540	1	Mon. Assy. Set of centerline of R/W
TOTAL CARRIED TO GENERAL SUMMARY SHEET				3	

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SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
21	22	23	53	54	56	231	232		OFF CALC	01/NHS/ PV	02/SAF/ PV	03/CMQ/ PV	04/NHS/ PV						
																		ROADWAY	
											LS			201	11000	LS		CLEARING AND GRUBBING	
					22,870						22,870			202	23000	22,870	SY	PAVEMENT REMOVED	
					7,542						7,542			202	30000	7,542	SF	WALK REMOVED	
					553						553			202	30600	553	SY	CONCRETE MEDIAN REMOVED	
					72						72			202	30700	72	FT	CONCRETE BARRIER REMOVED	
					4,989						4,989			202	32000	4,989	FT	CURB REMOVED	
					1,516						1,516			202	32500	1,516	FT	CURB AND GUTTER REMOVED	
		2	994							2	994			202	35100	2 994	FT	PIPE REMOVED, 24" AND UNDER	
					306						306			202	38000	306	FT	GUARDRAIL REMOVED	
		2 1	35							2 1	35			202	58100	1 35	2 EACH	CATCH BASIN REMOVED	
		2 1	9							2 1	9			202	58500	1 9	2 EACH	CATCH BASIN ABANDONED	
			403	3							403	3	3	SPECIAL	20270000	403	FT	FILL AND PLUG EXISTING CONDUIT	22
				5,721							3,657	2,064		203	10000	5,721	CY	EXCAVATION	
				6,040							5,301	739		203	20000	6,040	CY	EMBANKMENT	
					347	242			5,037	5,037	589			204	10000	5,626	SY	SUBGRADE COMPACTION	
10											10			204	45000	10	HOUR	PROOF ROLLING	
465										465				204	13000	465	CY	EXCAVATION OF SUBGRADE	
465										465				204	30010	465	CY	GRANULAR MATERIAL, TYPE B	
1,393										1,393				204	50000	1,393	SY	GEOTEXTILE FABRIC	
					71,316							71,316		608	10000	71,316	SF	4" CONCRETE WALK	
				2	5,887						2	5,887		608	52000	2 5,887	SF	CURB RAMP	
	3										3			623	38500	3	EACH	MONUMENT ASSEMBLY, TYPE C	
																		EROSION CONTROL	
	3										3			659	00100	3	EACH	SOIL ANALYSIS TEST	
	3,836		268								4,104			659	00300	4,104	CY	TOPSOIL	
	34,553										34,553			659	10000	34,553	SY	SEEDING AND MULCHING	
	1,728										1,728			659	14000	1,728	SY	REPAIR SEEDING AND MULCHING	
	1,728										1,728			659	15000	1,728	SY	INTER-SEEDING	
	4.89										4.89			659	20000	4.89	TON	COMMERCIAL FERTILIZER	
	7.14										7.14			659	31000	7.14	ACRE	LIME	
	140										140			659	35000	140	MGAL	WATER	
	311										311			659	40000	311	MSF	MOWING	
			2,411								2,411			670	00700	2,411	SY	DITCH EROSION PROTECTION	
											LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
									178,482		178,482			832	30000	178,482	EACH	EROSION CONTROL	
																		DRAINAGE	
	50										50			605	13300	50	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							8,685				8,685			605	14020	8,685	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	50						580				630			611	00510	630	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
			8								8			611	03100	8	FT	10" CONDUIT, TYPE B	
		1	3,900	2						1	3,900			611	04400	1 3,900	FT	12" CONDUIT, TYPE B	
		2	66							2	66			611	05900	2 66	FT	15" CONDUIT, TYPE B	
			30								30			611	10400	30	FT	24" CONDUIT, TYPE B	
			54								54			611	13400	54	FT	30" CONDUIT, TYPE B	
		2	24							2	24			611	16400	2 24	FT	36" CONDUIT, TYPE B, 706.02	
			12								12			611	20900	12	FT	48" CONDUIT, TYPE B, 706.02	
			1,563								1,563			611	04600	1,563	FT	12" CONDUIT, TYPE C	
		1	30							1	30			611	98150	1 30	EACH	CATCH BASIN, NO. 3	
			43								43			611	98180	1 43	EACH	CATCH BASIN, NO. 3A	
		1	21							1	21			611	98390	1 21	EACH	CATCH BASIN, NO. 7	
			14								14			611	98470	14	EACH	CATCH BASIN, NO. 2-2B	
		3 1	12							1	15			611	98630	1 15	EACH	CATCH BASIN ADJUSTED TO GRADE	
			4								4			611	98634	4	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
		8									8			611	99150	8	EACH	INLET ADJUSTED TO GRADE	
			10								10			611	99574	10	EACH	MANHOLE, NO. 3	
		2	22	1						1	24			611	99654	1 24	EACH	MANHOLE ADJUSTED TO GRADE	
		1	1								1			611	99660	1	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		4,000									4,000			SPECIAL	61199820	4,000	LB	MISCELLANEOUS METAL	23
		2									2			638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE	

1	REVISION 1	06/27/2022
2	REVISION 2	07/07/2022
3	REVISION 3	07/18/2022

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SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
23	56	231	242	252					OFF CALC	01/NHS/ PV	02/SAF/ PV	03/CMQ/ PV	04/NHS/ PV						
																		PAVEMENT	
									135,709	135,709				254	01000	135,709	SY	PAVEMENT PLANING, ASPHALT CONCRETE (3 1/2" Avg. Depth)	
137									1,162	1,299				301	56000	1,299	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	2,342	47							2,132	2,179		2,342		304	20000	4,521	CY	AGGREGATE BASE	
	701	11							23,673	23,684		701		407	20000	24,385	GAL	NON-TRACKING TACK COAT	
	388											388		411	10000	388	CY	STABILIZED CRUSHED AGGREGATE	
	654								299	299		654		441	50300	953	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
		11								11				441	70500	11	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
		7								7				441	70600	7	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (DRIVEWAYS)	
									7,435	7,435				442	10001	7,435	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN ,PG76-22M	23
									9,301	9,301				442	10101	9,301	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN ,PG76-22M	23
		100									100			452	10010	100	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
		142									142			452	12010	142	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
									950	950				452	17010	950	SY	14" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	11,623										11,623			609	12000	11,623	FT	COMBINATION CURB AND GUTTER, TYPE 2	
2	14,126	25								2	14,151			609	26000	14,151	FT	CURB, TYPE 6	
	262										262			609	50000	262	SY	4" CONCRETE TRAFFIC ISLAND	
	566										566			609	70000	566	SY	4" CONCRETE MEDIAN	
	406											406		860	10010	406	CY	THINLAY ASPHALT CONCRETE, TYPE LT	
20,000										20,000				875	10000	20,000	LB	LONGITUDINAL JOINT ADHESIVE	
																		LIGHTING	
																		SEE SHEET 325 FOR LIGHTING GENERAL SUMMARY	
																		TRAFFIC CONTROL	
				2							2			625	32000	2	EACH	GROUND ROD	
				2,644							2,644			630	03100	2,644	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				128							128			630	06500	128	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
				38							38			630	07600	38	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
				179							179			630	08302	179	FT	GROUND MOUNTED WOODEN BOX BEAM SUPPORT, TYPE M BEAM	
				13							13			630	08520	13	FT	STREET NAME SIGN SUPPORT, NO. 8 POST	
				1							1			630	72541	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12, AS PER PLAN, INSTALL ONLY	283
				1							1			630	72551	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13, AS PER PLAN, INSTALL ONLY	281
				45							45			630	79100	45	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
				43							43			630	79500	43	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
				1,619							1,619			630	80100	1,619	SF	SIGN, FLAT SHEET	
				212							212			630	80200	212	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
				2							2			630	80500	2	EACH	SIGN, DOUBLE FACED, STREET NAME	
				10							10			630	84500	10	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
				2							2			630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
				154							154			630	84900	154	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
				15							15			630	85400	15	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
				143							143			630	86002	143	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				12							12			630	86102	12	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
				55							55			630	87400	55	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
				89							89			630	87500	89	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
				30							30			630	97700	30	EACH	SIGNING, MISC.: LIGHTED STREET NAME SIGN	234
			13.54								13.54			642	00104	13.54	MILE	EDGE LINE, 6", TYPE 1	
			6.7								6.7			642	00200	6.7	MILE	LANE LINE, 4", TYPE 1	
			0.5								0.5			642	00300	0.5	MILE	CENTER LINE, TYPE 1	
			122								122			642	00700	122	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
			1,243								1,243			642	01500	1,243	FT	DOTTED LINE, 4", TYPE 1	
			8,134								8,134			644	00400	8,134	FT	CHANNELIZING LINE, 8"	
			1,170								1,170			644	00500	1,170	FT	STOP LINE	
			2,131								2,131			644	00620	2,131	FT	CROSSWALK LINE, 12"	

1 REVISION 1 06/27/2022
2 REVISION 2 07/07/2022
3 REVISION 3 07/18/2022

GENERAL SUMMARY

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51
370

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SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
24	25	28	242	334	366				OFF CALC	01/NHS/ PV	02/SAF/ PV	03/CMQ/ PV	04/NHS/ PV						
			348								348			644	00700	348	FT	TRANSVERSE/DIAGONAL LINE	
			199								199			644	00720	199	FT	CHEVRON MARKING	
			142								142			644	01300	142	EACH	LANE ARROW	
			4,353								4,353			644	01500	4,353	FT	DOTTED LINE, 4"	
			62								62			644	20800	62	FT	YIELD LINE	
			62								62			644	30000	62	FT	REMOVAL OF PAVEMENT MARKING	
			6								6			644	30020	6	EACH	REMOVAL OF PAVEMENT MARKING	
																		TRAFFIC SIGNALS	
																		SEE SHEET 288 FOR TRAFFIC CONTROL GENERAL SUMMARY	
																		LANDSCAPING	
				94									94	661	40060	94	EACH	DECIDUOUS TREE, 1-1/2" CALIPER, Amelanchier laevis 'Cumulus', Cumulus Serviceberry	
				36									36	661	40080	36	EACH	DECIDUOUS TREE, 2" CALIPER, Acer miyabei 'Morton', State Street Miyabe's Maple	
				58									58	661	40080	58	EACH	DECIDUOUS TREE, 2" CALIPER, Acer rubrum 'Burgundy Bell', Burgundy Belle Red Maple	
				31									31	661	40080	31	EACH	DECIDUOUS TREE, 2" CALIPERr, Acer rubrum 'Frank Jr.', Redpointe Maple	
				55									55	661	40100	55	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Acer x freemanii 'Armstrong Gold', Armstrong Gold Maple	
				41									41	661	40100	41	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Acer x freemanii Celebration, Celebration Maple	
				20									20	661	40100	20	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Ginkgo biloba 'Princeton Sentry', Princeton Sentry Maidenhair Tree	
				2									2	661	40100	2	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Nyssa Sylvatica, Black Gum	
				29									29	661	40100	29	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Quercus rubra, Northern Red Oak	
				65									65	661	40100	65	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Tilia cordata 'Greenspire', Greenspire Littleleaf Linden	
				143									143	661	40100	143	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Ulmus americana 'Princeton', Princeton American Elm	
				80									80	661	40100	80	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, Ulmus x 'Frontier', Frontier Hybrid Elm	
				12									12	661	50120	12	EACH	EVERGREEN TREE, 6' HEIGHT, Picea omorika, Serbian Spruce	
																		MISCELLANEOUS STRUCTURE	
					4,616							4,616		509	10000	4,616	LB	EPOXY COATED REINFORCING STEEL	
					562							562		510	10000	562	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
					32							32		511	34445	32	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN	365
					235							235		512	10050	235	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
					1,440							1,440		519	10000	1,440	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
												LS		614	18002	LS		MAINTAINING TRAFFIC, MISC.: OHIO TURNPIKE MOT (SEE 364)	365
					3														
																		MAINTENANCE OF TRAFFIC	
50											50			410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
	40										40			614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
10											10			614	12460	10	EACH	WORK ZONE MARKING SIGN	
50											50			614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
	12										12			614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	25
0.5											0.5			614	20000	0.5	MILE	WORK ZONE LANE LINE, CLASS I, 4"	
0.25		0.37									0.62			614	21000	0.62	MILE	WORK ZONE CENTER LINE, CLASS I	
4		4.66									8.66			614	22000	8.66	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
		4,346									4,346			614	23000	4,346	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
		3,992									3,992			614	24000	3,992	FT	WORK ZONE DOTTED LINE, CLASS I	
		12									12			614	26000	12	FT	WORK ZONE STOP LINE, CLASS I	
		38									38			614	30000	38	EACH	WORK ZONE ARROW, CLASS I	
2	50										52			616	10000	52	MGAL	WATER	
	330										330			659	40000	330	MSF	MOWING	
																		INCIDENTALS	
											LS			108	10000	LS		CPM PROGRESS SCHEDULE 2	
											LS			614	11000	LS		MAINTAINING TRAFFIC	
									16		16			619	16020	16	MNTH	FIELD OFFICE, TYPE C	
											LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												3 LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	21
											LS			624	10000	LS		MOBILIZATION	

2 REVISION 2 07/07/2022
3 REVISION 3 07/18/2022

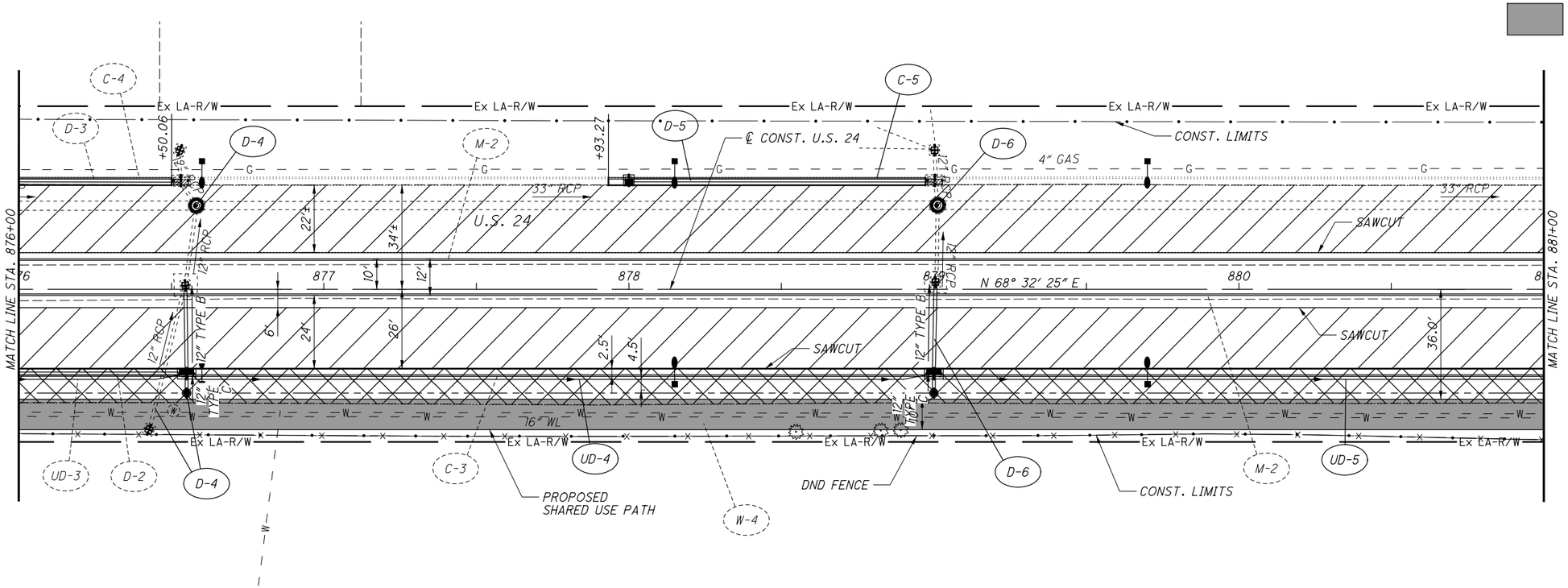
GENERAL SUMMARY

LUC-24-15.61

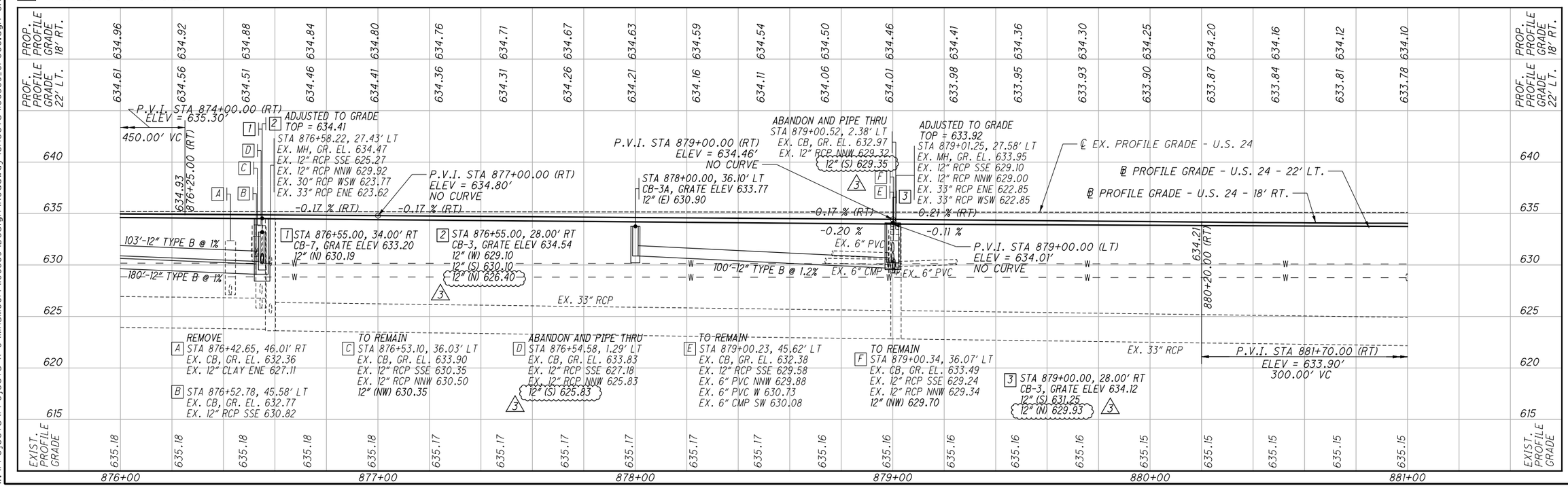
PAVEMENT REMOVAL

PAVEMENT PLANING AND RESURFACING AREA

PROPOSED SHARED USE PATH



3 REVISION 3 07/18/2022



PLAN AND PROFILE
STA. 876+00 TO STA. 881+00

LUC-24-15.61

64
370

CALCULATED DTB
CHECKED DPF

HORIZONTAL SCALE IN FEET
0 10 20 40

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PAVEMENT REMOVAL

PAVEMENT PLANING AND RESURFACING AREA

PROPOSED SHARED USE PATH

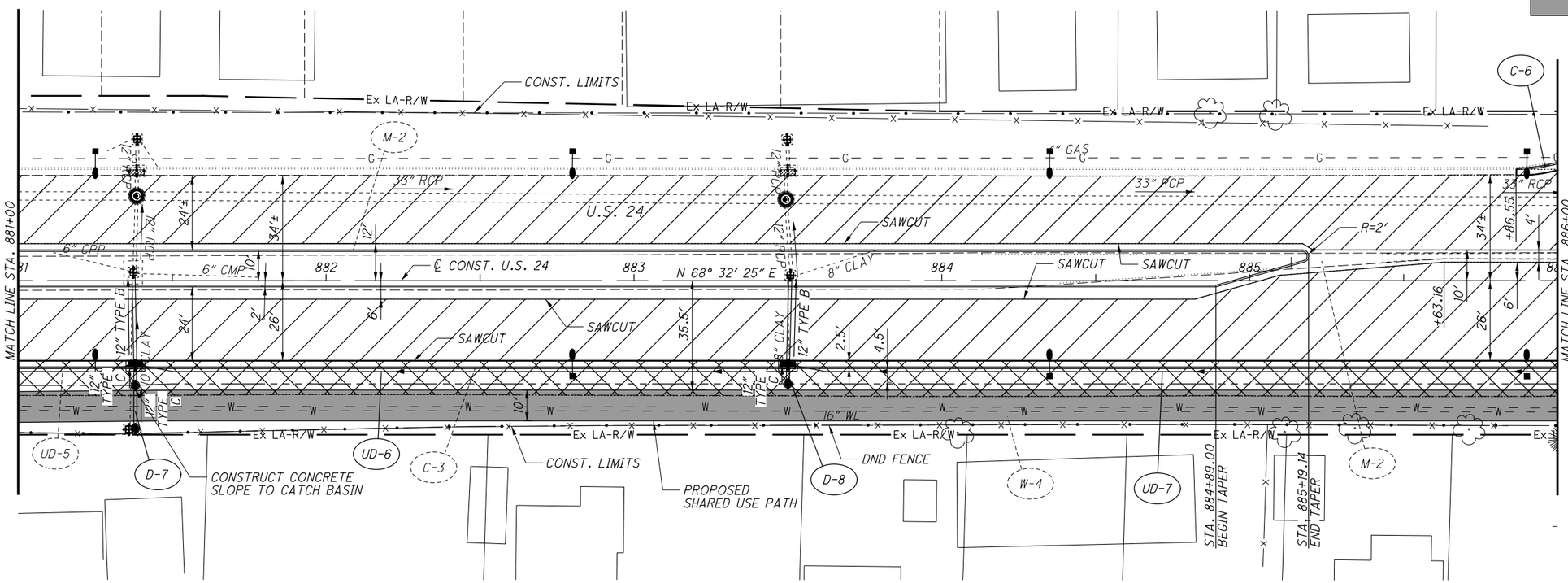
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED DTB
CHECKED DPF

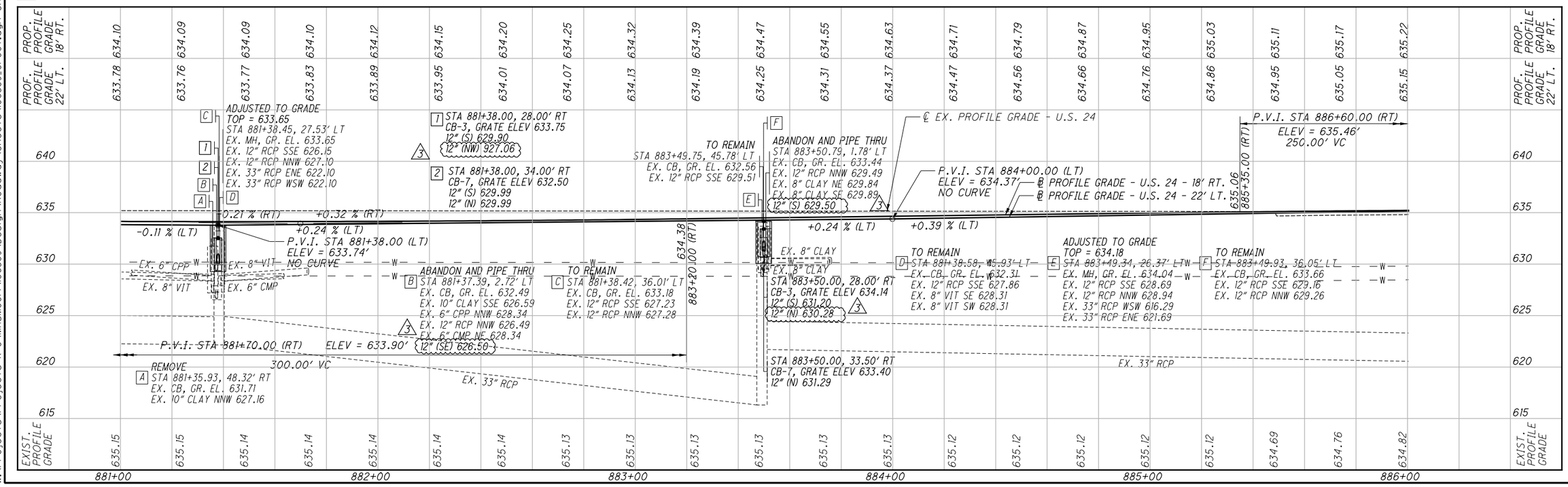
PLAN AND PROFILE
STA. 881+00 TO STA. 886+00

LUC-24-15.61

65
370



3 REVISION 3 07/18/2022



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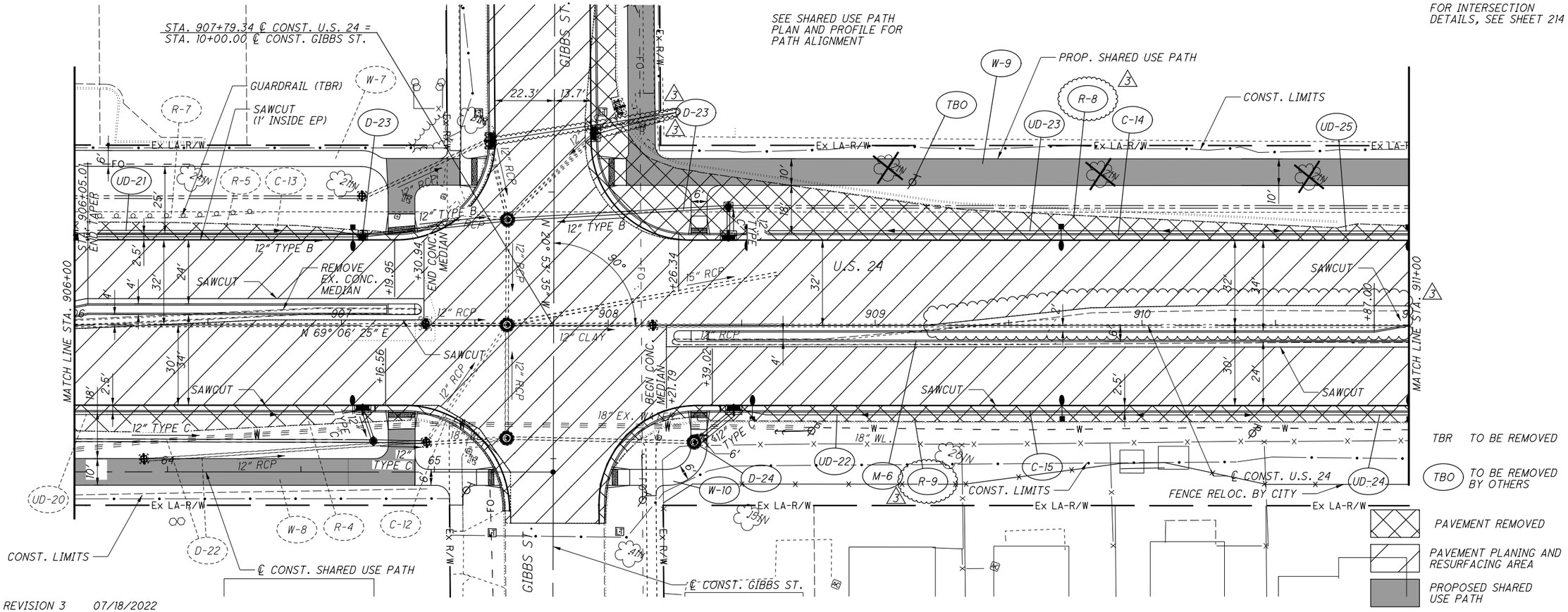
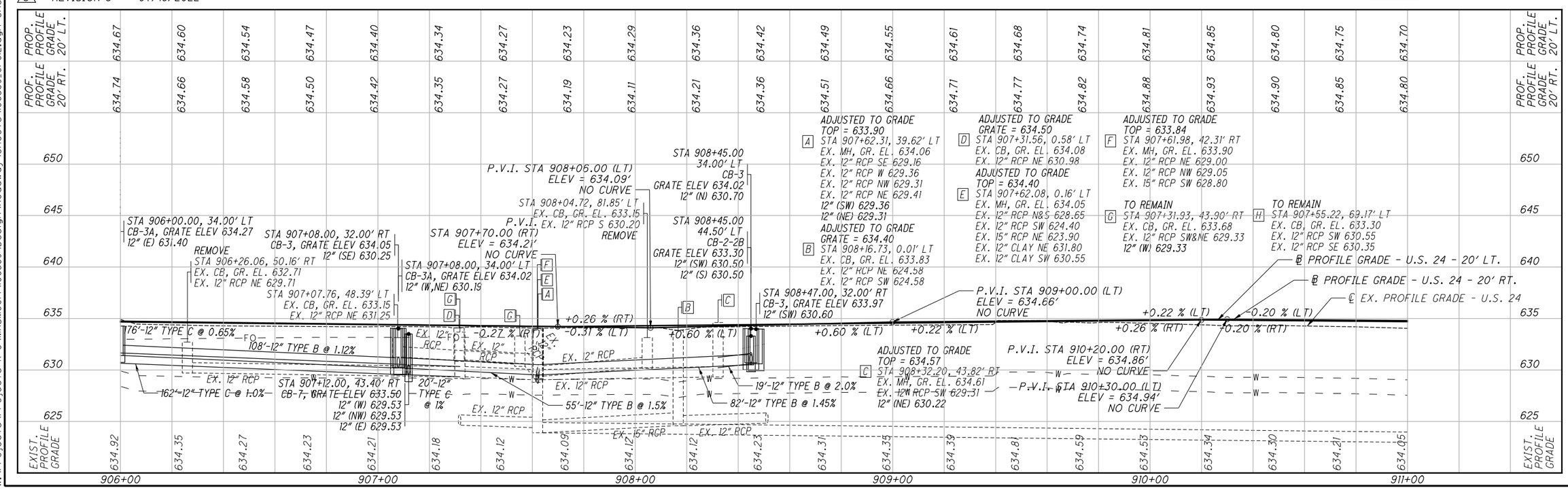


3 REVISION 3 07/18/2022



PLAN AND PROFILE
STA. 906+00 TO STA. 911+00

LUC-24-15.61

7.0
370

CALCULATED DTB CHECKED DPF

HORIZONTAL SCALE IN FEET

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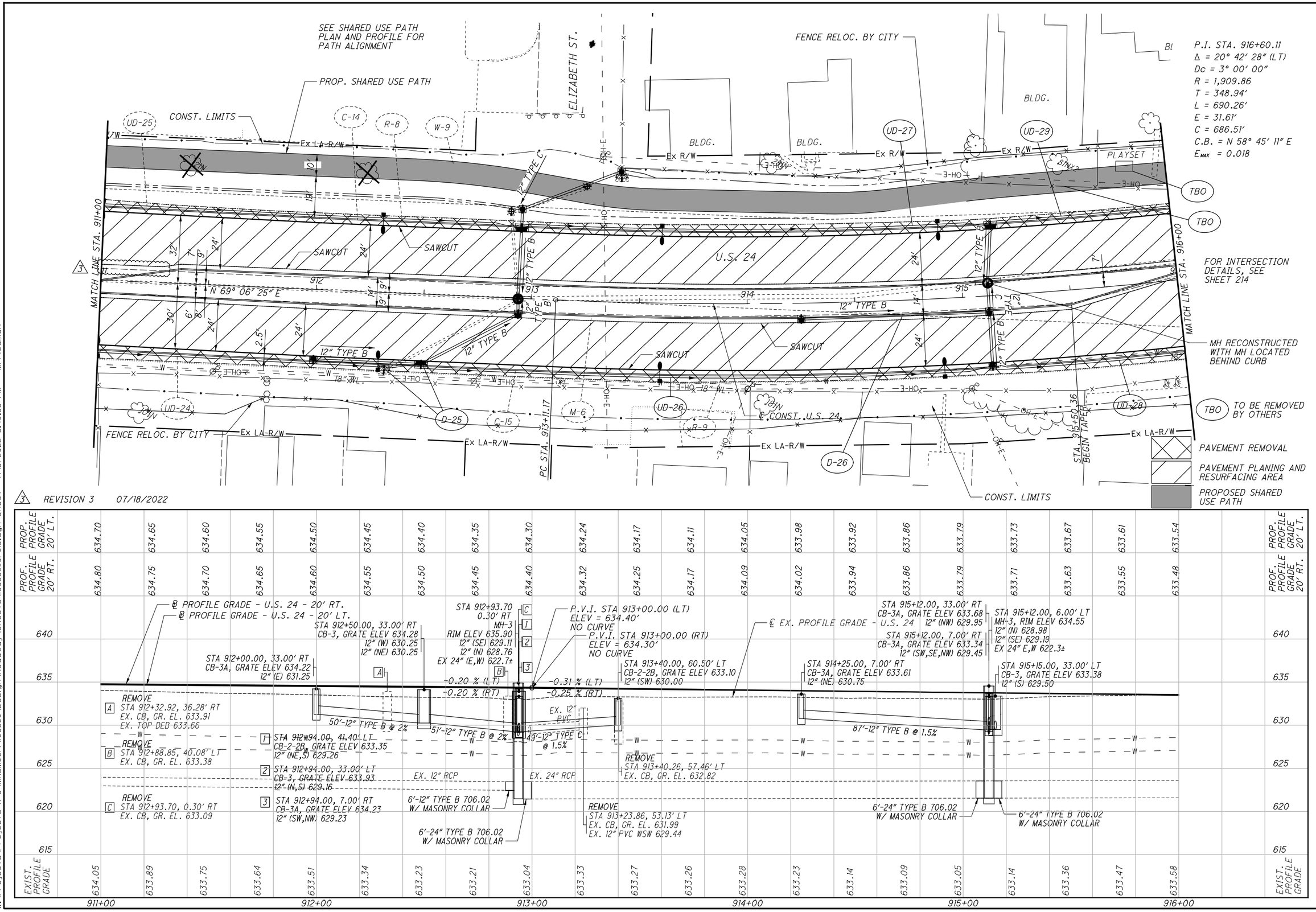

3 REVISION 3 07/18/2022

HORIZONTAL SCALE IN FEET

CALCULATED DTB CHECKED DPF

PLAN AND PROFILE
STA. 911+00 TO STA. 916+00

LUC-24-15.61

71
370

W:\Projects\Projects K-O\MAUM0014\06389\Design\Roadway\Sheets\06389_GP013.dgn Sheet 7/15/2022 3:40:55 PM MFriedman

SEEDING END WIDTH	SEEDING SQ. YDS.
21	94
13	92
20	111
20	111
20	106
·	514

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
3	20	9	34
7	17	15	32
9	18	16	32
8	17	15	31
8	16	14	27
·	·	69	156

CALCULATED SV

CHECKED DPF

635
630

12:1 12:1 3.8:1 8:1 633.45 633.58
EX. STM. 634.31 877+50.00 634.03 634.71 EX. WL.

12:1 12:1 3.3:1 8:1 633.35 633.48
GAS EX. STM. 634.41 877+00.00 634.03 634.80 EX. WL.

TO REMAIN PROP. 12" (SW) 630.35
STA 876+53.10, 36.03' LT
EX. CB, GR. EL. 633.90'
12" RCP SSE 630.35
12" RCP NNW 630.50
STA 876+52.78, 45.58' LT
EX. CB, GR.E EL. 632.77'
12" RCP SSE 630.82
12" RCP 12" RCP EX. STM. 634.51
TO REMAIN 12" RCP

ADJUSTED TO GRADE TOP=634.41
STA 876+58.22, 27.43' LT
EX. MH, GR.E EL. 634.47'
12" RCP SSE 625.27
12" RCP NNW 629.92
30" RCP WSW 623.77
33" RCP ENE 623.62
0.0197

ABANDON & PIPE THRU PROP. 12" (SE) 625.83 △3
STA 876+54.58, 1.29' LT
EX. CB, GR.E EL. 633.83'
12" RCP SSE 627.18
12" RCP NNW 625.83
12:1 12:1
876+50.00 633.97 634.88
30"-12" TYPE B @ 2.0%
6'-12" TYPE C @ 1.5%

STA 876+55.00, 28.00' RT
CB-3, GRATE ELEV 634.54
△3 12" (N) 626.40
12" (S) 630.10
12" (W) 629.10
STA 876+55.00, 34.00' RT
CB-7, GRATE ELEV 633.20
12" (N) 630.19
633.25 3:1 8:1 633.50
TBR 12" RCP EX. WL.
TBR
STA 876+42.65, 46.01' RT
EX. CB, GR. EL. 632.36'
12" CLAY ENE 627.11

12:1 12:1 3:1 8:1 633.33 633.58
GAS 12" TYPE B EX. STM. 634.61 876+00.00 634.28 634.96 12" TYPE B EX. WL.

STA 875+50.00, 36.20' LT
CB-3A, GRATE ELEV 634.24
12" (E) 631.39
12:1 12:1 3.2:1 41.7:1 8:1 633.53 633.78
0.0191
GAS EX. STM. 634.71 875+50.00 634.45 635.03 12" TYPE B EX. WL.

△3 REVISION 3 07/18/2022

60 50 40 30 20 10 0 10 20 30 40 50 60

CROSS SECTIONS U.S. 24
STA. 875+50.00 TO STA. 877+50.00

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123
370

W:\Projects\Projects K-O\MAU0014\106389\Design\Roadway\Sheets\106389_XS101.dgn Sheet 7/18/2022 10:08:08 AM MFriedman

SEEDING END WIDTH	SEEDING SQ. YDS.
20	108
7	106
19	106
19	108
20	114
·	636

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
5	19	10	34
6	18	12	34
7	19	15	33
9	17	15	31
7	16	9	33
·	·	70	199

CALCULATED SV
CHECKED DPF

635
630

20

12:1 12:1 5.5:1 8:1
633.46 633.71
EX. STM. 633.90
880+00.00 633.41
634.25
EX. WL.

7

12:1 12:1 4.7:1 8:1
633.39 633.64
GAS
EX. STM. 633.95
879+50.00 633.40
634.36
EX. WL.

19

TO REMAIN
PROP 12" (SW) 629.70
STA 879+00.34, 36.07' LT
EX. CB, GR. EL. 633.49'
12" RCP SSE 629.24
12" RCP NNW 629.34
STA 879+00.23, 45.62' LT
EX. CB, GR. EL. 632.38'
12" RCP SSE 629.58
6" PVC NNW 629.88
6" PVC W 630.73
6" CMP SW 630.08
6" PVC
12" RCP
ADJUSTED TO GRADE
TOP = 633.92
STA 879+01.25, 27.58' LT
EX. MH, GR. EL. 633.95'
12" RCP SSE 629.10
12" RCP NNW 629.00
33" RCP ENE & WSW 622.85
0.017↓
TO REMAIN
12" RCP
EX. STM.
634.01
12" RCP
3 ABANDON & PIPE THRU
PROP 12" (S) 629.35
STA 879+00.52, 2.38' LT
EX. CB, GR. EL. 632.97'
12" RCP NNW 629.32
12:1 12:1
3 30'-12" TYPE B @ 2%
879+00.00 633.47
634.46
STA 879+00.00, 28.00' RT
CB-3, GRATE ELEV 634.12
12" (S) 631.25
3 12" (N) 629.93
STA 879+00.00, 34.00' RT
CB-7, GRATE ELEV 633.30
12" (N) 631.34
633.49
4.7:1 8:1
633.74
6'12" TYPE C @ 1.5%
EX. WL.

19

12:1 12:1 4.2:1 8:1
633.45 633.70
GAS
12" TYPE B
EX. STM.
634.11
878+50.00 633.80
634.54
EX. WL.

20

STA 878+00.00, 36.10' LT
CB-3A, GRATE ELEV 633.77
12" (E) 630.90
12:1 12:1 4.2:1 8:1
633.53 633.78
GAS
EX. STM.
634.21
878+00.00 633.91
634.63
EX. WL.

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60 50 40 30 20 10 0 10 20 30 40 50 60

CROSS SECTIONS U.S. 24
STA. 878+00.00 TO STA. 880+00.00

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124
370

W:\Projects\Projects K-O\MAUM0014\106389\Design\Roadway\Sheets\106389_XS101.dgn Sheet 7/18/2022 10:08:41 AM MFriedman

SEEDING END WIDTH	SEEDING SQ. YDS.
20	114
21	114
20	117
22	119
21	114
·	50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6	17	9	34
4	20	9	38
6	21	12	37
7	19	11	35
5	19	9	35
·	·	50	179

CALCULATED SV
CHECKED DPF

CROSS SECTIONS U.S. 24
STA. 880+50.00 TO STA. 882+50.00

LUC-24-15.61

125
370

635
630

12:1 12:1 4.3:1 8:1
GAS
EX. STM.
634.01
882+50.00
633.61
634.20
633.25
633.50
EX. WL.

12:1 12:1 3.9:1 8:1
GAS
EX. STM.
633.89
882+00.00
633.48
634.12
633.04
633.29
EX. WL.

STA 881+38.42, 36.01' LT
EX. CB, GR. EL. 633.18'
12" RCP SSE 627.23
12" RCP NNW 627.28
STA 881+38.58, 45.93' LT
EX. CB, GR. EL. 632.31'
12" RCP SSE 627.86
8" VIT SE & SW 628.31
TO REMAIN
STA 881+38.45, 27.53' LT
EX. MH, GR. EL. 633.65'
12" RCP SSE 626.15
12" RCP NNW 627.10
33" RCP ENE & WSW 622.10
0.0191
ABANDON & PIPE THRU
PROP 12" (SE) 626.50 (3)
STA 881+37.39, 2.72' LT
EX. CB, GR. EL. 632.49'
10" CLAY SSE 626.59
6" CPP NNW 628.34
12" RCP NNW 626.49
6" CMP NE 628.34
STA 881+38.00, 28.00' RT
CB-3, GRATE ELEV 633.75
12" (S) 629.90
12" (NW) 627.06
STA 881+38.00, 34.00' RT
CB-7, GRATE ELEV 632.50
12" (S) 629.99
12" (N) 629.99
STA 881+38.00, 48.00' RT
CB-7, GRATE ELEV 632.50
12" (N) 630.13
TBR
STA 881+35.93, 48.32' RT
EX. CB, GR. EL. 631.71'
18" CLAY NNW 627.16
12:1 12:1
EX. STM.
633.77
12" RCP
12" RCP
12" RCP
881+50.00
633.13
634.09
632.63
8:1
632.88
(3) 30'-12" TYPE B @ 2.0%
14'-12" TYPE C @ 1.0%
6'-12" TYPE C @ 1.5%
10" CLAY
EX. WL.

12:1 12:1 3.4:1 8:1
EX. STM.
633.78
881+00.00
633.32
634.10
632.68
632.93
EX. WL.

12:1 12:1 4.5:1 8:1
EX. STM.
633.84
880+50.00
633.42
634.16
633.13
633.38
EX. WL.

(3) REVISION 3 07/18/2022

60 50 40 30 20 10 0 10 20 30 40 50 60

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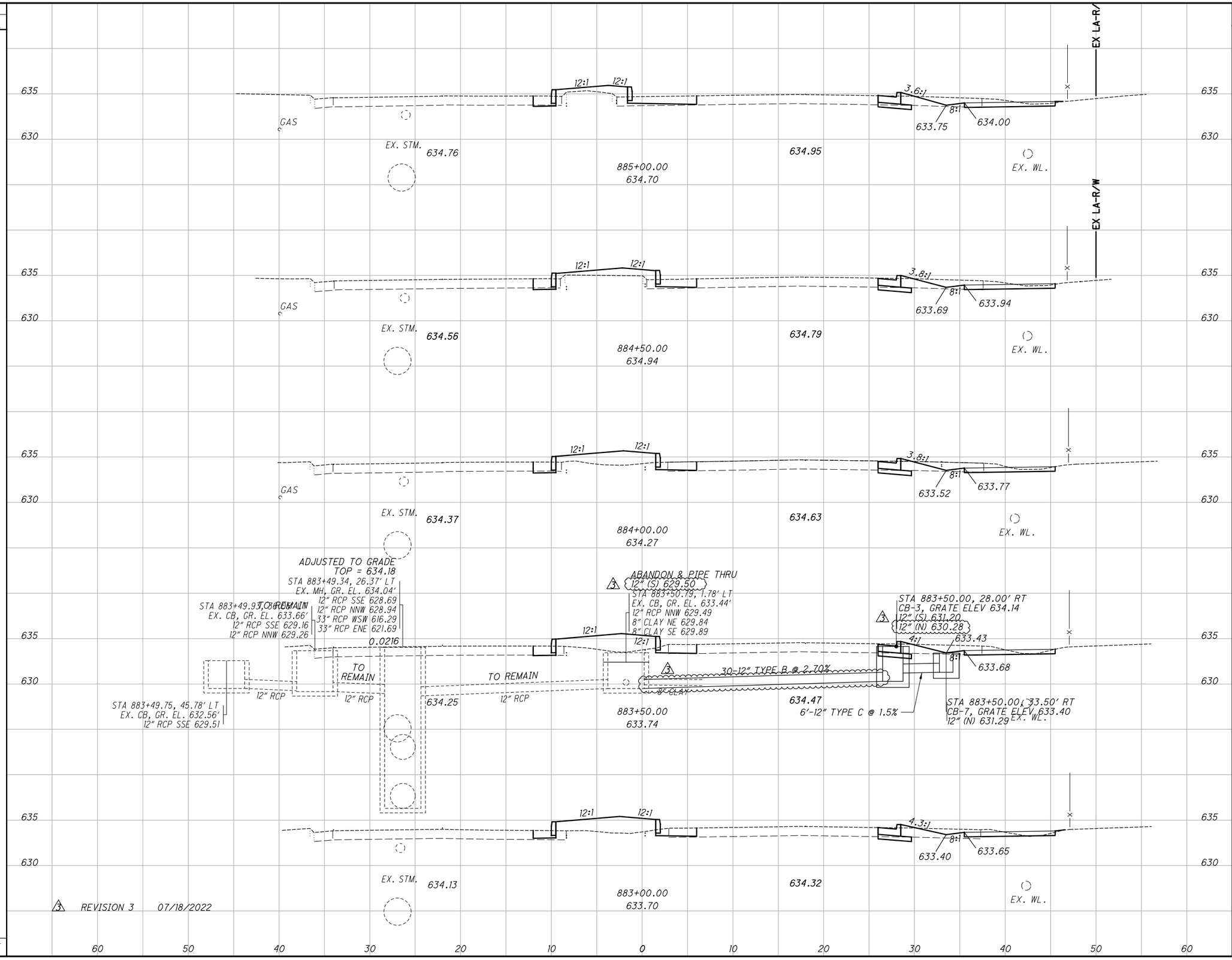
SEEDING END WIDTH	SEEDING SQ. YDS.
16	94
18	100
18	103
19	108
·	505



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6	6	12	13
7	8	14	19
8	13	13	27
6	16	10	30
5	16	10	31
·	·	59	120

CALCULATED SV CHECKED DPF

CROSS SECTIONS U.S. 24
STA. 883+00.00 TO STA. 885+00.00

LUC-24-15.61

126
370

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SEEDING	
END WIDTH	SQ. YDS.
15	153
18	144
28	147
25	128
27	92
·	664

END AREA	
CUT	FILL
5	9
10	5
7	15
5	23
6	27
·	·

VOLUME	
CUT	FILL
14	13
16	19
11	35
10	46
10	58
61	171

CALCULATED SV
CHECKED DPF

635
630
640

GAS
12" TYPE B EX. STM.
633.40
897+50.00
633.78
634.00
6.6:1
2.00%
20:1
12" TYPE B
4634.32
EX. STM.
EX. WL.

6:1
8.00%
1.6:1
2.0:1
12" TYPE B EX. STM.
633.24
897+00.00
633.63
633.90
12" TYPE B
633.60
EX. STM.
EX. WL.

ADJUSTED TO GRADE
GRATE = 632.72
12" (E) 627.06
STA 896+63.14, 36.09' LT
EX. CB, GR. EL. 632.60'
12" RCP SW 626.95
12" RCP SE 626.95
10" CLAY NE 628.50
3 ABANDON & PIPE THRU
12" (S) 627.70
STA 896+63.58, 3.25' LT
EX. CB, GR. EL. 633.45'
12" RCP NW 627.70
12" RCP SE 627.65
STA 896+63.00, 32.00' RT
CB-3A, GRATE ELEV 633.44
12" (S) 628.83
12" (E) 628.33
12" (N) 628.33
STA 896+63.27, 48.69' RT
EX. CB, GR. EL. 631.04'
10" CLAY NW 629.24
TBR
5.7:1
8.00%
1.6:1
2.0:1
GAS
TO REMAIN
12" RCP
633.08
EX. STM.
35'-12" TYPE B @ 1.80%
3
21'-12" TYPE C @ 1.52%
896+50.00
633.49
633.79
10" CLAY
633.49
EX. WL.
STA 896+63.00, 52.50' RT
CB-2-2B, GRATE ELEV 632.00
12" (N) 629.15

ADJUSTED TO GRADE
GRATE = 632.60
STA 896+24.59, 36.17' LT
EX. CB, GR. EL. 632.47'
10" RCP NW 625.57
12" RCP NE 625.62
ADJUSTED TO GRADE
TOP = 632.90
STA 896+26.54, 28.30' LT
EX. MH, GR. EL. 633.00'
48" RCP NE 622.50
48" RCP SW 622.50
12" RCP SW 625.90
12" RCP NW 625.20
12:1
12:1
8.00%
6:1
2.1:1
2.0:1
632.20
GAS
TO REMAIN
12" RCP
633.05
TBR
12" RCP
896+00.00
633.37
633.70
633.40
EX. WL.

TBR
STA 895+55.30, 0.62' RT
EX. CB, GR. EL. 633.04'
10" RCP NE 628.69
12:1
12:1
0.0136
8.00%
2.0:1
2.0:1
632.20
GAS
EX. STM.
633.15
10" RCP
895+50.00
633.49
633.65
633.25
EX. WL.

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60 50 40 30 20 10 0 10 20 30 40 50 60

CROSS SECTIONS U.S. 24
STA. 896+00.00 TO STA. 897+50.00

LUC-24-15.61

131
370

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