UTILITIES

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

CITY OF CLEVELAND
DIVISION OF WATER
1201 LAKESIDE AVENUE
CLEVELAND, OHIO 44114
PHONE: 216-664-2444

THE ILLUMINATING COMPANY
6896 MILLER ROAD, SUITE 101
BRECKSVILLE, OHIO 44141
PHONE: 216-622-9800

SPECTRUM / TIME WARNER
1100 EAST 222ND STREET
EUCLID, OHIO 44117
PHONE: 800-993-2225

DOMINION ENERGY
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OHIO 44333
PHONE: 877-542-2630

ADESTA (G4S INTEGRATION)
6500 ROCKSIDE ROAD, SUITE 350
INDEPENDENCE, OHIO 44131
PHONE: 216-520-3039

CITY OF MAYFIELD HEIGHTS
6154 MAYFIELD ROAD
MAYFIELD HEIGHTS, OHIO 44124
PHONE: 440-442-2626

NORTHEAST OHIO REGIONAL SEWER DISTRICT
3900 EUCLID AVENUE
CLEVELAND, OHIO 44115
PHONE: 216-881-6600

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

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 9:00 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.

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.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL 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.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. THE CONSTRUCTION LIMITS ARE IDENTIFIED IN THE PLAN.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

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

CLEARING AND GRUBBING, AS PER PLAN

THE CITY SHALL HAVE ALL TREES CUT DOWN PRIOR TO APRIL 1ST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY DOWNED TREES LEFT ON SITE BY THE CITY AND REMOVAL OF STUMPS. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. 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, AS PER PLAN.

SEEDING AND MULCHING

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

ITEM 659, SEEDING AND MULCHING, CLASS 1	815 SY
ITEM 659, TOPSOIL	91 CY
ITEM 659, COMMERCIAL FERTILIZER	0.11 TON
ITEM 659, WATER	5 M GAL
ITEM 832, EROSION CONTROL	7500 EACH

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS, AS DETERMINED VIA CADD AREAS.

EROSION CONTROL CALCULATIONS

ITEM 659 - TOPSOIL FURNISHED AND PLACED
815 SY x (111 CY / 1000 SY)   = 91 CY

ITEM 659 - COMMERCIAL FERTILIZER
815 SY x (1 TON / 7410 SY)   = 0.11 TONS

ITEM 659 - WATER
(2 x 815 SY) x (0.0027 M GAL / 1 SY)   = 5 M GAL

ITEM 609 - 4" CONCRETE WALK, AS DIRECTED

A CONTINGENCY QUANTITY FOR ITEM 609 - 4" CONCRETE WALK HAS BEEN PROVIDED TO ENSURE THE PROPOSED CURB RAMPS, LANDINGS, AND PROPOSED SIDEWALK CAN BE SMOOTHLY TRANSITIONED TO THE EXISTING SIDEWALK. THE QUANTITIES SHALL NOT BE USED UNLESS DIRECTED BY THE ENGINEER.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 609 - 4" CONCRETE WALK   500 SF

ENDANGERED BAT HABITAT

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED NORTHERN LONG-EARED AND INDIANA BAT, AND THE STATE ENDANGERED LITTLE BROWN AND TRICOLORED BATS. 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 AND ORC 1531.25. 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 253 PAVEMENT REPAIR AS PER PLAN

THIS ITEM SHALL BE AS SPECIFIED IN ODOT CMS MANUAL WITH THE FOLLOWING EXCEPTIONS:

ASPHALT PAVEMENT REPAIR DEPTH SHALL BE 3 INCHES

ASPHALT REMOVED SHALL BE REPLACED WITH 1.5 INCHES ODOT 441 TYPE 1 INTERMEDIATE ASPHALT AND 1.5 ODOT 441 TYPE 1 SURFACE ASPHALT TO MEET EXISTING ADJACENT PAVEMENT.

ALL JOINTS SHALL BE SEALED AS PER SPECIFICATION

FULL DEPTH SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE ITEM

ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1, AS PER PLAN

THIS ITEM SHALL BE AS SPECIFIED IN THE ODOT CMS MANUAL WITH THE FOLLOWING EXCEPTIONS:

FULL DEPTH SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE ITEM

HOOK BOLTS SHALL BE USED, SHALL BE 5/8" X 8" FOR CONCRETE AS NEEDED

DOWEL BARS SHALL BE USED, SHALL BE 1" X 18" FOR CONCRETE AS NEEDED

5	10	15	26	PART. 01/MPO/OT	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
									ROADWAY	
				LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	5
	1			1	202	20010	1	EACH	HEADWALL REMOVED	
	24		292	316	202	23000	316	SY	PAVEMENT REMOVED	
	4,069			4,069	202	30000	4,069	SF	WALK REMOVED	
	624			624	202	32000	624	FT	CURB REMOVED	
		47		47	203	10000	47	CY	EXCAVATION	
		11		11	203	20000	11	CY	EMBANKMENT	
	21		292	313	204	10000	313	SY	SUBGRADE COMPACTION	
500	4,132			4,632	608	10000	4,632	SF	4" CONCRETE WALK	5
	3,417			3,417	608	52000	3,417	SF	CURB RAMP	
	5			5	SPECIAL	61199700	5	EACH	GAS VALVE BOX ADJUSTED TO GRADE	
	1			1	638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
									EROSION CONTROL	
91				91	659	00300	91	CY	TOPSOIL	
815				815	659	00500	815	SY	SEEDING AND MULCHING, CLASS 1	
0.11				0.11	659	20000	0.11	TON	COMMERCIAL FERTILIZER	
5				5	659	35000	5	MGAL	WATER	
7,500				7,500	832	30000	7,500	EACH	EROSION CONTROL	
									DRAINAGE	
	0.2			0.2	602	20000	0.2	CY	CONCRETE MASONRY	
	25			25	611	04600	25	FT	12" CONDUIT, TYPE C	
	1			1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
									PAVEMENT	
	53			53	253	01001	53	SY	PAVEMENT REPAIR AS PER PLAN	
	72			72	255	10011	72	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1 AS PER PLAN	
	2		33	35	304	20000	35	CY	AGGREGATE BASE	
	21		292	313	451	13010	313	SY	8" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	61			61	609	14000	61	FT	CURB, TYPE 2-A	
	563			563	609	26000	563	FT	CURB, TYPE 6	

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SUBSUMMARY

CUY-MAYFIELD HTS TLCI

REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED (EACH)	202 PAVEMENT REMOVED (SY)	202 WALK REMOVED (SF)	202 CURB REMOVED (FT)	204 SUBGRADE COMPACTION (SY)	253 PAVEMENT REPAIR AS PER PLAN (SY)	255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1 AS PER PLAN (SY)	304 AGGREGATE BASE (CY)	451 8" REINFORCED CONCRETE PAVEMENT, CLASS QC IP (SY)	602 CONCRETE MASONRY (CY)	608 4" CONCRETE WALK (SF)	608 CURB RAMP (SF)	609 CURB, TYPE 2-A (FT)	609 CURB, TYPE 6 (FT)	611 12" CONDUIT, TYPE C (FT)	611 MANHOLE ADJUSTED TO GRADE (EACH)	SPECIAL GAS VALVE BOX ADJUSTED TO GRADE (EACH)	638 VALVE BOX ADJUSTED TO GRADE (EACH)
C1	11	0+43.32	0+58.54	RT				16		4								16				
D1	11	2+13	2+20	R/L										0.2					25			
D2	17	194+11.45		LT																1		
R1	11	0+43.32	0+58.54	RT			107															
R2	11	2+13		RT	1																	
SW1	11	0+45	1+02	R/L				20		4					324	150		20				
SW2	11	1+23	2+53	R/L				37		8					1075	222		37				
SW3	11	2+73	3+32	R/L			152	38		4	4				292	380		38			2	
SW4	11	3+59	3+90	R/L			306	28			6				102	358		28			1	
SW5	11	4+42	4+84	R/L			165								378							
SW6	11	5+48	6+55	R/L			491								966						2	1
SW7	16	3+70.31	3+83.31	LT			116	13		3					56	56		13				
SW8	16	3+69.92	3+82.92	RT			80	13		3					21	56		13				
SW9	17	109+39	194+35	LT			254	34		8					51	325		34				
SW10	17	194+05.19	194+29.62	RT		11	106	53	10	5		1	10			113	29	24				
SW11	17	193+14.59	193+42.24	RT		14	145	60	11	6		1	11			163	32	28				
SW12	17	109+38.54	193+02.89	R/L			299	37		8					48	309		37				
SW13	19	217+53.91	10+60.31	LT			335	25			6				176	185		25				
SW14	19	10+52.64	218+58.59	R/L			231	44			10				206	129		44				
SW15	19	218+30.69	218+43.69	RT			84	13			3				25	56		13				
SW16	19	217+42.93	217+55.57	RT			85	13			3				19	56		13				
SW17	21	267+47.46	267+72.11	LT			241	39			9				66	178		39				
SW18	21	268+41.58	268+71.86	LT			359	55			12				131	259		55				
SW19	21	268+45.79	268+68.20	RT			207	31			7				66	149		31				
SW20	21	267+29.18	267+69.54	RT			306	55			12				130	273		55				