## PROTECTION OF DRINKING WATER RESOURCES

BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE CITY OF DAYTON FIRE DEPARTMENT, LOCAL EMERGENCY COORDINATOR (937-901-5112), AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

## PROTECTION OF DEEDS POINT PARK

ACCESS TO DEEDS POINT PARK MUST BE MAINTAINED AT ALL TIMES. NO EQUIPMENT OR STAGING WITHIN DEEDS POINT PARK IS PERMITTED UNDER THIS PROJECT.

# FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

#### <u>CONNECTION BETWEEN EXISTING AND PROPOSED</u> <u>GUARDRAIL</u>

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.

# 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.

# ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH ITEM 253 -PAVEMENT REPAIR, WITH THE FOLLOWING ADDITIONS: 4

THE AREAS OF ITEM 253, PAVEMENT REPAIR, AS PER PLAN MAY BE LOCATED THROUGHOUT THE PROJECT LIMITS ANYWHERE THE ENGINEER DEEMS A REPAIR AREA OF EXISTING PAVEMENT IS REQUIRED TO MAINTAIN TRAFFIC.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. THE AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A NEAT LINE. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT. THE ENTIRE AREA INCLUDING VERTICAL FACES SHALL BE COATED PRIOR TO PLACING THE REPLACEMENT MATERIAL PER 253.03. THE REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE, PG64-22 (449).

THE ESTIMATED PAVEMENT REPAIR AREAS SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND 6 INCHES IN DEPTH MEASURED FROM THE MILLED SURFACE OR AS DIRECTED BY THE ENGINEER.

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER AND SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR THE ABOVE DESCRIBED WORK.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN 1500 SQ. YD.

GENERAL NOTES
DESIGN AGENCY
DESIGNER KDW REVIEWER TWG 08-12-22 PROJECT ID 101849 SHEET TOTAL 6 170

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	PAI	RT.		ITEM	GRAND		
	01/NHS/BR		ITEM	EXT	TOTAL	UNIT	DESCI
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	LS		201	11000	LS		CLEARING AND GRUBBING
	1,427		202	23000	1,427	SY	PAVEMENT REMOVED
	958		202	38000	958	FT	GUARDRAIL REMOVED
	700 75		203 203	10000 20000	700 75	CY CY	EXCAVATION EMBANKMENT
	2,079		204	10000	2,079	SY	SUBGRADE COMPACTION
	731.3		606	15050	731.3	FT	GUARDRAIL, TYPE MGS
	1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)
	2		606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T
	5		606	35002	5	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
	3		606	35102	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
	99		607	35000	99	FT	FENCE REMOVED AND REBUILT
	4,623		608	10000	4,623	SF	4" CONCRETE WALK
							EROSION
	1		601	21050	1	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMEN
	61		601	21060	61	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMEN
	2		659	00100	2	EACH	SOIL ANALYSIS TEST
	118		659	00300	118	CY	TOPSOIL
	1,062		659	10000	1,062	SY	SEEDING AND MULCHING
	53		659	14000	53	SY	REPAIR SEEDING AND MULCHING
	0.14		659	20000	0.14	TON	COMMERCIAL FERTILIZER
	0.22		659	31000	0.22	ACRE	LIME
	6		659	35000	6	MGAL	WATER
	10,000		832	30000	10,000	EACH	EROSION CONTROL
							DRA
	160		605	11110	160	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABR
	50		605	13300	50	FT	6" UNCLASSIFIED PIPE UNDERDRAINS
	50		605	31100	50	FT	AGGREGATE DRAINS
	50		611	01500	50	FT	6" CONDUIT, TYPE F
	1		611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET
							PAVE
-	$\sim$	$\sim$	$\sim$		$\sim$	$\sim$	
	1,500		253	01001	1,500	SY	PAVEMENT REPAIR, AS PER PLAN
	29,981		1 1254	N01000	29,881	LYRI	PAVEMENT/PLANING, ASPHALT, CONCRETE (1/5" DEPTH)
	612		301	56000	612	CY	ASPHALT CONCRETE BASE, PG64-22, (449)
	344		304	20000	344	CY	AGGREGATE BASE
	52		407	13900	52	GAL	TACK COAT, 702.13
	2,878		407	20000	2,878	GAL	NON-TRACKING TACK COAT
	2,878 737		407	30000	737	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JC
	1,428		442	20000	1,428	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A
	90		609	24510	90	FT	CURB, TYPE 4-C
			1		1	1	1

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