

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.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	1	1	2

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611, DRAINAGE STRUCTURES.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22 5 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 5 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

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 LOCAL FIRE DEPARTMENT (911), LOCAL EMERGENCY COORDINATOR (937-901-5112) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

TEMPORARY TRANSIT STOP CLOSURES

TEMPORARY TRANSIT STOP CLOSURES: IF A TRANSIT STOP MUST BE CLOSED TO ALLOW FOR CONSTRUCTION, THE CONTRACTOR SHALL WORK WITH THE CITY OF DAYTON AND GREATER DAYTON RTA TO DETERMINE IF A TEMPORARY STOP CAN BE ESTABLISHED IN PROXIMITY TO THE CLOSED STOP. AT LEAST TWO WEEKS PRIOR TO CLOSING ANY TRANSIT STOP FOR CONSTRUCTION, THE CONTRACTOR SHALL POST NOTICE AT THE TRANSIT STOP OF THE UPCOMING CLOSURE, THE EXPECTED CLOSURE PERIOD AND THE NEAREST OPEN TRANSIT STOP(S).

PROTECTION OF THE GREAT MIAMI RIVER RECREATIONAL TRAIL

ADVANCE NOTICE OF THE NECESSARY TRAIL DETOUR WILL BE POSTED ON THE GREAT MIAMI RECREATION TRAIL AT LEAST TWO WEEKS PRIOR TO THE START OF THE DETOUR.

AT THE LOCATIONS WHERE THE TRAIL DETOURS TRANSITION TO/ FROM ON-ROAD TRAVEL, TWO-SIDED DETOUR SIGNAGE SHALL BE PROVIDED, TO BE VISIBLE TO BOTH TRAIL USERS AND MOTORISTS.

APPROPRIATE TEMPORARY CONSTRUCTION FENCING, BARRIERS AND/OR SIGNAGE SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT TRAIL USERS. ACCESS TO THE GREAT MIAMI RIVER RECREATION TRAIL, OUTSIDE OF THE CONSTRUCTION LIMITS, SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

PROTECTION OF CARILLON PARK

THE CONTRACTOR SHALL ENSURE THAT ACCESS TO CARILLON PARK IS NOT RESTRICTED BY PROJECT CONSTRUCTION ACTIVITIES.

MONITORING WELL

WHEN RAISING THE MONITORING WELL TO GRADE, CARE SHALL BE TAKEN TO NOT TO DISTURB THE 2" PVC PIPE. RAISE THE PVC PIPE BY USING A 2" COUPLING TO ATTACH A SINGULAR PIECE OF 2" SCHEDULE 40 PIPE. THE TOP OF THE PIPE SHALL HAVE AN EASILY REMOVABLE CAP TO PREVENT DEBRIS AND SPIDERS OUT OF THE WELL AND SHALL SIT 2"-4" BELOW THE METAL LID. EMBANKMENT BACKFILL AROUND THE PVC PIPE SHALL BE FREE OF ANY MATERIAL THAT COULD DAMAGE THE PIPE, WHILE STILL CONFIRMING TO THE SPECIFICATION IN THE PLANS. LEAVE A 6" VOID INSIDE THE MONITORING WELL LID/SLEEVE, MEASURED FROM THE SURFACE. THE EXISTING METAL LID AND SLEEVE MAY BE REUSED IF IT CAN BE REMOVED WITHOUT SIGNIFICANT DAMAGE. IF NOT, THE NEW LID SHALL HAVE "MONITORING WELL" PRINTED ON IT. AT THE SURFACE, A 2'X2'X4" CONCRETE PAD SHALL BE PLACED AROUND THE LID. CONTRACTOR SHALL SURVEY TOP OF LID AND PVC PIPE AND PROVIDE THE INFORMATION TO THE MIAMI CONSERVANCY DISTRICT.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).
- IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.
- PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

THE SUBGRADE SHALL BE STABILIZED USING GRANULAR MATERIAL TYPE C WITH GEOTEXTILE FABRIC AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY.

ITEM 204 GRANULAR MATERIAL, TYPE C	50 CU. YD.
ITEM 204 GEOTEXTILE FABRIC	20 SQ. YD.
ITEM 204 EXCAVATION OF SUBGRADE	50 CU. YD.

ITEM 630 GROUND MOUNTED, POST SUPPORT NO. 4, AS PER PLAN

THE NUMBER 4 POST SHALL BE A SQUARE POST. A NUMBER 4 U-CHANNEL POST IS NOT PERMITTED.

ROUNDING

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

630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBs (IA-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

FUNCTIONAL REQUIREMENTS -

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

- RRFB INDICATIONS
 - EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
 - THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
 - EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
 - EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
 - THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
 - TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
 - AN LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.
 - THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.
- SIGNS
 - ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.

B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.

C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.

D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT

A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.

B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.

C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS

A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.

B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.

C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.

D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.

B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.

C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON

A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.

B. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. 17.5 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

MEASUREMENT -

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

DESIGN AGENCY



DESIGNER

SS

REVIEWER

JLM 04/01/26

PROJECT ID

119379

SHEET

7

TOTAL

132

SHEET NUMBER											PART.		ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	12	17	18	19	20	113	123	124		01/s>2								
																		ROADWAY	
											LS			201	11000	LS		CLEARING AND GRUBBING	
				10,182							10,182			202	23000	10,182	SY	PAVEMENT REMOVED	
				668							668			202	30000	668	SF	WALK REMOVED	
				36							36			202	32000	36	FT	CURB REMOVED	
				86							86			202	35100	86	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
				77							77			202	38000	77	FT	GUARDRAIL REMOVED	
				5							5			202	58100	5	EACH	CATCH BASIN REMOVED	
											1,204			203	10000	1,204	CY	EXCAVATION	
											1,873			203	20000	1,873	CY	EMBANKMENT	
			13,665								13,665			204	10000	13,665	SY	SUBGRADE COMPACTION	
	50										50			204	13000	50	CY	EXCAVATION OF SUBGRADE	
	50										50			204	30020	50	CY	GRANULAR MATERIAL, TYPE C	
			7								7			204	45000	7	hour	PROOF ROLLING	
	20										20			204	50000	20	SY	GEOTEXTILE FABRIC	
				50							50			606	15050	50	FT	GUARDRAIL, TYPE MGS	
				1							1			606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
				1							1			606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T	
					97						97			608	10000	97	SF	4" CONCRETE WALK	
				628							628			608	10001	628	SF	4" CONCRETE WALK, AS PER PLAN	6
					159						159			608	52000	159	SF	CURB RAMP	
					4,552						4,552			609	26001	4,552	FT	CURB, TYPE 6, AS PER PLAN	6
					10						10			609	98100	10	EACH	CURB, MISC.: CONCRETE PARKING BLOCK	113
				3							3			SPECIAL	68014550	3	EACH	TRASH RECEPTACLE	10
				6							6			SPECIAL	69050560	6	EACH	BICYCLE RACK	9
				1							1			SPECIAL	69098000	1	EACH	BENCH 48" BACKLESS WITH HORIZONTAL STRAP SEAT, AS PER PLAN	9
				2							2			SPECIAL	69098000	2	EACH	BENCH 72" BACKED WITH HORIZONTAL STRAP SEAT, AS PER PLAN	9
				1							1			SPECIAL	69098000	1	EACH	BENCH 72" BACKLESS WITH HORIZONTAL STRAP SEAT, AS PER PLAN	9
				2							2			SPECIAL	69098000	2	EACH	DOG WASTE STATION, AS PER PLAN	10
						1					1			SPECIAL	69098000	1	EACH	GROUND WATER MONITORING WELL ADJUST TO GRADE	20
																		EROSION CONTROL	
10											10			601	21050	10	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
2											2			659	00100	2	EACH	SOIL ANALYSIS TEST	
787						132	31				950			659	00300	950	CY	TOPSOIL	
7,090							274				7,364			659	10000	7,364	SY	SEEDING AND MULCHING	
355							14				369			659	14000	369	SY	REPAIR SEEDING AND MULCHING	
0.96							0.04				1			659	20000	1	TON	COMMERCIAL FERTILIZER	
1.47							0.06				1.53			659	31000	1.53	ACRE	LIME	
38.29							1.49				39.78			659	35000	39.78	MGAL	WATER	
						1,184					1,184			671	15000	1,184	SY	EROSION CONTROL MAT, TYPE A	
											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	
											70,700			832	30000	70,700	EACH	EROSION CONTROL	
																		DRAINAGE	
					3,418						3,418			605	11110	3,418	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
20											20			605	13300	20	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
20											20			605	31100	20	FT	AGGREGATE DRAINS	
20					260						280			611	01500	280	FT	6" CONDUIT, TYPE F	
						15					15			611	98150	15	EACH	CATCH BASIN, NO. 3	
						2					2			611	99574	2	EACH	MANHOLE, NO. 3	
						7					7			611	99654	7	EACH	MANHOLE ADJUSTED TO GRADE	
2											2			611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
						4					4			611	99900	4	EACH	DRAINAGE STRUCTURE, MISC.: CLEANOUT ADJUSTED TO GRADE	6
																		DRAINAGE ALTERNATES	
						1,724					1,724			611	04400	1,724	FT	12" CONDUIT, TYPE B (GENERIC) (ALTERNATE 1)	8
						1,724					1,724			611	04400	1,724	FT	12" CONDUIT, TYPE B (RCP C-76, CLASS 4) (ALTERNATE 2)	8
						143					143			611	04401	143	FT	12" CONDUIT, TYPE B, AS PER PLAN (GENERIC) (ALTERNATE 1)	8



MOT-GMR-TRAIL IMP CR22B

MODEL: Sheet_SurfT PAPER SIZE: 17x11 (in.) DATE: 9/22/2026 TIME: 4:53:38 PM USER: jmelman
Q:\Miami Conservancy Dist\0126425A.00 - MOT-GMR Trail IMP CR22B\119379\400-Engineering\Roadway\Sheets\119379_GS004.dgn

REF NO.	SHEET NO.	STATION TO STATION					608		609	609				605	611	611	611	611	611	611	611	638	638	659	671	SPECIAL
							CURB RAMP		CURB, TYPE 6, AS PER PLAN	CURB, MISC.: CONCRETE PARKING BLOCK				6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F	12" CONDUIT, TYPE B (RCP C-76, CLASS 4)	12" CONDUIT, TYPE B, AS PER PLAN (RCP C-76, CLASS 4)	CATCH BASIN, NO. 3	MANHOLE ADJUSTED TO GRADE	DRAINAGE STRUCTURE, MISC.: CLEANOUT ADJUSTED TO GRADE	MANHOLE, NO. 3	FIRE HYDRANT ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE	TOPSOIL	EROSION CONTROL MAT, TYPE A	GROUND WATER MONITORING WELL ADJUST TO GRADE
							SF		FT	EACH				FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	CY	SY	EACH
D-1	25, 26	106+70.93	LT		108+13.11	LT										142.18		1								
		108+13.11	LT		107+86.84	LT											29.19	1			1					
		108+13.11	LT		110+75.11	LT										261.69		1								
D-2	27	114+22.64	LT														20.02	1								
D-3	28	117+55.58	LT		120+77.60	LT											320.13		1							
		120+77.60	LT														21.20	1								
D-4	29, 30	124+35.66	LT		124+35.63	LT											5.00		1							
		124+35.63	LT		127+23.32	LT											286.43		1			1				
		127+23.32	LT		128+00.11	LT											76.60		1							
		128+00.11	LT		128+88.64	LT											88.42		1							
D-5	30, 31	130+75.11	LT		132+99.13	LT											222.43		1							
		132+99.13	LT															40.50	1							
		132+99.13	LT		135+00.11	LT											200.64		1							
D-6	32	137+28.99	LT		138+49.17	LT											119.90		1							
		138+49.17	LT															31.96	1							
D-7	35	50+27.21	LT																		1					
D-8	35	50+84.29	RT																1							
D-9	36	53+81.75	RT																1							
D-10	37	59+43.52	RT																1							
D-11	37	62+07.66	RT																1							
D-12	38	63+72.79	RT																		1					
D-13	38	64+72.18	RT																1							
D-14	38	67+35.69	RT																1							
D-15	39	69+99.40	RT																1							
D-16	39	70+14.96	RT																		1					
D-17	36	56+79.21	LT																		1					
W-1	26	3+27.23	RT																							
W-2	26	10+43.27	RT																				1			
W-3	26	12+89.70	RT																				1			
W-4	26	12+95.99	RT																				1			
W-5	29	20+81.47	RT																				1			
W-6	29	21+05.81	RT																				1			
W-7	31	28+56.51	RT																				1			
W-8	37	61+96.64	LT																				1			
W-9	37	66+70.43	LT																				1			
W-10	26	10+50.67	RT																				1			
W-11	26	3+28.24	LT																			1				
MW-1	30	24+88.92	RT																							1
E-1	28, 29	14+24.69	RT		20+00.00	RT																		32.04	288.34	
E-2	29, 30	20+18.00	RT		25+81.72	RT																		28.65	257.88	
E-3	30, 31	26+49.78	RT		30+50.00	RT																		24.97	224.72	
E-4	31, 32	30+64.50	RT		36+12.56	RT																		45.88	412.95	
TOTALS CARRIED TO GENERAL SUMMARY																1724	143	15	7	4	2	1	10	132	1184	1

ROADWAY AND DRAINAGE SUBSUMMARY

DESIGN AGENCY



DESIGNER

RKE

REVIEWER

JLM 04/01/26

PROJECT ID
119379

SHEET	TOTAL
20	13