Exhibit A – Attachment 2

Discovery Bike Park

City of Meridian Parks and Recreation

Construction Drawings

Engineer's General Construction Notes:

WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOUR PRIOR NOTICE.

- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT VERSION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), THE CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC (AND ANY ADDENDUMS), AND PROJECT SPECIFICATIONS. THE MORE STRINGENT OF ANY OF THESE STANDARDS SHALL BE THE CONTROLLING STANDARDS OR SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL HAVE A COPY OF THE LATEST CITY OF MERIDIAN STANDARD SPECIFICATIONS AND DRAWINGS ON SITE AT ALL TIMES DURING CONSTRUCTION (AVAILABLE ON THE WEBSITE). FAILURE TO HAVE A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON SITE COULD BE GROUNDS FOR A STOP WORK ORDER UNTIL THE SITUATION IS RESOLVED. 3. ALL CONTRACTORS, SUBCONTRACTORS AND UTILITY CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF
- WORK 4. CONTRACTORS SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO
- 5. ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS.
- 6. WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL AGENCY MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.
- 7. CONTRACTOR SHALL HAVE A CITY OF MERIDIAN APPROVED SET OF PLANS BY AND A COMPLETE COPY OF THE LATEST IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC) ON SITE AT ALL TIMES.
- 8. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- 9. THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS/PERMITS/LICENSE AGREEMENTS, AND SATISFY THEMSELVES AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON THEIR PART AND/OR THEIR NEGLIGENCE AND/OR FAILURE TO ACQUAINT THEMSELVES WITH THE CONDITIONS OF THE SITE.
- 10. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
- 11. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED. THE DIRECT COST OF PERMITS WILL BE REIMBURSED BY THE OWNER.
- 12. CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES
- ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
- 14. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- 15. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- 16. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. OWNER/DEVELOPER/CONTRACTOR IS REQUIRED TO CALL 811 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION, TO DETERMINE LOCATION OF UNDERGROUND UTILITIES.
- 17. THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF STRUCTURES.
- 18. ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS, SIDEWALKS, OR EXISTING STRUCTURES DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
- 20. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CURB & GUTTER, STORM DRAIN, CHANNEL CROSSINGS, WATER AND SEWER ELEVATIONS OR INVERTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER WHEN ELEVATIONS OR INVERTS DO NOT MATCH PLANS.
- 21. ALL CONTRACTORS WORKING WITHIN THE PUBLIC RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM ADA COUNTY HIGHWAY DISTRICT AT LEAST 24-HOURS PRIOR TO ANY CONSTRUCTION.
- 22. LOCATE SUBSURFACE STORMWATER DISPOSAL FACILITIES (INCLUDING INFILTRATION BEDS AND DRYWELLS) AT LEAST 25 FEET FROM WATER MAINS. THIS REQUIREMENT DOES NOT APPLY TO CATCH BASINS OR SAND AND GREASE VAULTS.
- 23. REFER TO THE GEOTECHNICAL ENGINEERING EVALUATION PREPARED SPECIFICALLY FOR THIS PROJECT. REFERENCE STRATA REPORT FILE No. B016068A DATED JULY 26, 2017 AND ANY ASSOCIATED ADDENDA FOR SITE DEVELOPMENT REQUIREMENTS.
- 32. PROPERTY PINS AND MONUMENTS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE RESET BY A LICENSED SURVEYOR. 33. THE CONTRACTOR SHALL FILE AND SUBMIT A NOTICE OF INTENT (NOI) ALONG WITH A STORM WATER POLLUTION PREVENTION PLAN TO MEET THE REQUIREMENTS OF IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) FOR CONSTRUCTION ACTIVITIES FOR THIS PROJECT.



City of Meridian Parks & Recreation Discovery Bike Park 2121 E Lake Hazel Road, Meridian, ID 83642

Earthwork Notes:

A. WHERE IT IS NOT SPECIFICALLY STATED IN THESE SPECIFICATIONS THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION SHALL GOVERN. B. CONTRACTOR SHALL CONTACT "DIG LINE" 48 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.

A. ORGANIC AND/OR DISTURBED SOILS, IF ENCOUNTERED, SHALL BE REMOVED TO DEPTHS OF 6-INCHES (MINIMUM), AND STOCKPILED FOR LATER B. STOCKPILE EXCAVATED LANDSCAPE FILL MATERIALS AND STRUCTURAL FILL MATERIAL SEPARATELY WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER.

A. ALL EXISTING ORGANIC AND/OR DISTURBED SOILS ARE TO BE COMPLETELY REMOVED FROM BENEATH PAVEMENT AND FLATWORK AREAS B. STOCKPILE EXCAVATED LANDSCAPE FILL MATERIALS AND STRUCTURAL FILL MATERIAL SEPARATELY WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER.

A. GENERAL STRUCTURAL FILL

A.A. ACCEPTABLE SOIL CLASSIFICATION GROUPS: GW, GP, GP-GM, GM, SW, SP, SP-SM, SM, ML, OR CL (OR A COMBINATION OF THESE GROUPS) ACCORDING TO THE USCS A.B. FREE OF ROCK OR GRAVEL LARGER THAN 6 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. A.C. SOILS CONSISTING OF INERT EARTH MATERIALS WITH LESS THAN 3% ORGANICS OR OTHER DELETERIOUS SUBSTANCES (I.E. WOOD, METAL, PLASTIC, WASTE, ETC)

B. SUBBASE COURSE (GRANULAR STRUCTURAL FILL) B.A. ACCEPTABLE SOIL CLASSIFICATION GROUPS: GW, GP, OR GP-GM ACCORDING TO THE USCS.

B.B. 6-INCH MINUS SELECT, CLEAN, GRANULAR SOIL WITH NO MORE THAN 50 PERCENT OVERSIZE (GREATER THAN 3/4-INCH) MATERIAL AND NO MORE THAN 12 PERCENT FINES (PASSING NO. 200 SIEVE). REFER TO THE ISPWC SECTION 801 FOR MATERIAL GRADATION AND REQUIREMENTS.

C.A. SOIL MAY NOT CONTAIN PARTICLES LARGER THAN 1-INCH IN MEDIAN DIAMETER AND MUST MET THE REQUIRED GRADATION SET FORTH BY THE PROJECT SITE GEOTECHNICAL ENGINEERING EVALUATION. C.B. SOIL MEETING REQUIREMENTS FOR TYPE I BEDDING STATED IN THE LATEST EDITION OF THE IDAHO STANDARD FOR PUBLIC WORKS CONSTRUCTION (ISPWC), SECTION 305 - PIPE BEDDING

D.A. SOIL MAY NOT CONTAIN PARTICLES LARGER THAN 1-INCH IN MEDIAN DIAMETER AND MUST MEET THE REQUIRED GRADATION SET FORTH BY THE PROJECT SITE GEOTECHNICAL ENGINEERING EVALUATION. PREPARED BY STRATA (FILE NO. BO16068A) DATED JULY 26. 2017. D.B. SOIL MEETING REQUIREMENTS STATED IN THE LATEST EDITION OF THE IDAHO STANDARD FOR PUBLIC WORKS CONSTRUCTION (ISPWC). SECTION 802 - AGGREGATE BASE.

COMPACTION OF SOIL BACKFILLS AND FILLS

A. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT. IF SMALLER OR LIGHTER COMPACTION EQUIPMENT IS PROVIDED, THE LIFT THICKNESS MAY BE REDUCED TO MEET THE COMPACTION REQUIREMENTS PROVIDED HEREIN. B. FILL PLACED OUTSIDE OF PAVEMENT AND FLATWORK AREAS CAN BE PLACED AS NON-STRUCTURAL FILL (I.E. LANDSCAPE FILL) PROVIDING THERE ARE NO STRUCTURES (FLATWORK, SIGNS, ETC) PLANNED DIRECTLY ABOVE THE LANDSCAPE FILL. LANDSCAPE FILL SHALL BE COMPACTED TO A MINIMUM OF 85 PERCENT OF THE MAXIMUM DRY DENSITY OF THE SOIL ACCORDING TO THE ASTM D 1557 (MODIFIED PROCTOR). C. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 1557: UNDER STRUCTURES, BUILDING SLABS, STEPS, CONCRETE AND ASPHALT PAVEMENTS, AND WALKWAYS, COMPACT THE TOP OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 95 PERCENT. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 85 PERCENT, FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT 95 PERCENT.

A. UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES. B. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES: PAVEMENTS: PLUS OR MINUS 1/2 INCH BASE COURSE, PLUS OR MINUS 0.1 FEET SUBGRADE; UNPAVED AREAS: PLUS OR MINUS 0.3 FEET. C. MAXIMUM SLOPE SHALL BE 2:1 UNLESS OTHERWISE INDICATED.

A. OWNER WILL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL

B. ALLOW TESTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. C. PAVEMENT AND WALKWAY AREAS SHALL BE TESTED AT A RATE OF 1 TEST PER 2000 SF PER LIFT. SURFACE OF FINISHED GRADE SHALL BE TESTED AT A RATE OF 1 TEST PER 5000 SF. D. TRENCH BACKFILL: PER IDAHO STANDARD FOR PUBLIC WORKS DIVISION 300.

E. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED WITHOUT ADDITIONAL COMPENSATION.

A. PROTECT EXCAVATED SUBGRADE AREAS OR AREAS STRIPPED FOR SUBSEQUENT FILL MATERIAL PLACEMENT BENEATH AREAS TO BE PAVED: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE AND CONSTRUCT WORK. AND PROVIDE PROTECTION. IN A MANNER TO AVOID CAUSING INSTABILITY OF THE EXISTING SOILS. SUCH PROTECTION MAY INCLUDE AVOIDING TRAFFIC OVER SUCH AREAS WITHOUT PROVISION OF A PROTECTIVE CONSTRUCTION ACCESS ROAD. CONTRACTOR SHALL KEEP SURFACES WELL DRAINED FREE FROM PUDDLING, PONDING, OR Potential moisture build up in the form of snow or otherwise, which may cause the instability of the surface soils or

UNDERLYING SOILS. B. UPON COMPLETION OF EXCAVATION TO SUBGRADE LEVELS BENEATH SUBSEQUENT FILL, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN COMPACTION LEVELS AS REQUIRED. IF AFTER APPROVAL, THE SUBGRADE SOILS RECEIVE MOISTURE WHICH RAISES THE MOISTURE CONTENT TO A LEVEL EXCEEDING THE TARGET MOISTURE LEVELS, THEY SHALL BE SCARIFIED AND ALLOWED TO DRY OR REMOVED AND REPLACED WITH ENGINEERED FILL AT THE CONTRACTOR'S EXPENSE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THESE SUBGRADE SOILS DRY AND FREE OF TRAFFIC PRIOR TO AND DURING COMPACTION EFFORTS AND UNTIL THE FULL PAVEMENT SECTION HAS BEEN INSTALLED. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE SUBGRADE IMMEDIATELY AFTER COMPLETION OF SUBGRADE MOISTURE CONDITIONING AND/OR COMPACTION FEFORTS

REGULATORY REQUIREMENT A. AN EPA NPDES PERMIT IS REQUIRED. CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOI) WITH THE IDEQ'S GENERAL CONSTRUCTION PERMIT

City of Meridian Standard Notes:

- GENERAL CONSTRUCTION . ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT VERSION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), THE CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC (AND ANY ADDENDUMS), MERIDIAN DESIGN STANDARDS, THE REQUIREMENTS OF THE ADA COUNTY HIGHWAY DISTRICT (ACHD), AND/OR THE REQUIREMENTS OF THE IDAHO TRANSPORTATION DEPARTMENT (ITD). THE MORE STRINGENT OF ANY OF THESE STANDARDS SHALL BE THE CONTROLLING STANDARDS OR SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL HAVE A COPY OF THE LATEST CITY OF MERIDIAN STANDARD SPECIFICATIONS AND DRAWINGS ON SITE OR READILY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION (AVAILABLE ON THE WEBSITE). FAILURE TO HAVE ACCESS TO A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON SITE COULD BE GROUNDS FOR A STOP WORK ORDER UNTIL THE SITUATION IS RESOLVED.
- 3. THE CONTRACTOR SHALL HAVE PLANS STAMPED "APPROVED FOR CONSTRUCTION" BY THE CITY OF MERIDIAN ON SITE AT ALL TIMES
- 4. ALL CONTRACTORS, SUBCONTRACTORS, AND UTILITY CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF WORK.
- 5. CONTRACTORS SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOUR PRIOR NOTICE. 6. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR 48 HOURS PRIOR TO THE REQUIRED TESTING. THE CONTRACTOR MAY NOT OPEN
- OR CLOSE WATER VALVES. 7. ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN GENERAL CONSTRUCTION NOTE NO. 1.
- 8. WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL AGENCY MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.
- 9. INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL WATER AND SEWER CONSTRUCTION SHALL BE BY THE PUBLIC WORKS DEPARTMENT, AND THEIR DECISION SHALL BE FINAL. SUCH INSPECTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE DEQ/QLPE APPROVED CONSTRUCTION PLANS.
- 10. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- 11. PRIOR TO BEGINNING INSTALLATION OF STREET LIGHTS, THE ELECTRICAL CONTRACTOR SHALL OBTAIN AN ELECTRICAL PERMIT FROM THE BUILDING DIVISION OF THE MERIDIAN PUBLIC WORKS DEPARTMENT. ANY DEVIATION IN STREET LIGHT LOCATIONS FROM THE APPROVED PLANS MUST BE APPROVED IN WRITING FROM THE CITY ENGINEER.
- 1. CONSTRUCTION OF THE WATER SYSTEM SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE STANDARDS AND SPECIFICATIONS REFERRED TO IN GENERAL CONSTRUCTION NOTE NO. 1.
- 2. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION. THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- 3. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- 4. PLACE WATER SERVICE LINES IN A TWO (2) INCH DIAMETER PIPE SLEEVE WHEREVER THE SERVICE LINE CROSSES A STORM WATER TREATMENT FACILITY (I.E. SEEPAGE BEDS, DRAINAGE SWALES).
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONTINUOUS WATER SERVICE TO ALL EXISTING WATER USERS AFFECTED BY CONSTRUCTION. IF WATER SERVICE MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS INSPECTOR.
- CONSTRUCTION OF THE SEWER SYSTEM SHALL CONFORM TO THE STANDARDS IN THE WASTEWATER RULES (IDAPA 58.01.16) AS WELL AS THE STANDARDS AND SPECIFICATIONS REFERRED TO IN GENERAL CONSTRUCTION NOTE NO. 1.
- 2. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- 3. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- 4. PLACE SEWER SERVICE LINES IN A SIX (6) INCH DIAMETER WATER CLASS PIPE SLEEVE WHEREVER THE SERVICE LINE CROSSES A STORM WATER TREATMENT FACILITY (I.E., SEEPAGE BEDS, DRAINAGE SWALES).
- ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM ACHD OR ITD AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION. ACHD OR ITD WILL INSPECT ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY TO INCLUDE UTILITY TRENCHES ABOVE THE PIPE ZONE.

PRESSURIZED IRRIGATION

2. INSTALL A REDUCED PRESSURE BACKFLOW PREVENTER IN ANY CONNECTION BETWEEN THE POTABLE WATER SYSTEM AND THE PRESSURE IRRIGATION SYSTEM. THE DEVICE MUST BE APPROVED BY THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) AND THE CITY OF MERIDIAN WATER DEPARTMENT.

1. FOR ANY DRAINAGE FACILITIES WITHIN A PUBLIC RIGHT OF WAY, ACHD OR ITD SHALL BE RESPONSIBLE FOR INSPECTION. FOR ANY PRIVATE DRAINAGE FACILITIES THE PROJECT ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR INSPECTION AND CERTIFICATION OF DRAINAGE FACILITIES; HOWEVER ANY ROOF DRAINAGE AND PIPING TO THE DRAINAGE FACILITIES WILL BE INSPECTED BY THE MERIDIAN PLUMBING OFFICIAL UNDER THE APPROPRIATE PERMIT

Survey Control Notes:

1. LOCAL CONTROL SHALL BE SET AT TIME OF CONSTRUCTION. GRADING IS BASED UPON DESIGN FINISH GRADE PROVIDED BY OTHERS.

1. THE PRESSURIZED IRRIGATION SYSTEM MUST BE BUILT TO THE STANDARDS OF THE IRRIGATION DISTRICT IN WHICH IT IS BEING CONSTRUCTED.

FOR COMMERCIAL SUBDIVISIONS OR COMMERCIAL PROJECTS WITH PUBLIC MAINS THAT HAVE ON-SITE DRAINAGE.

Project Contacts:

Owner's Rep.

CITY OF MERIDIAN PARKS AND RECREATION MIKE BARTON 33 E. BROADWAY AVE, SUITE 206 MERIDIAN, ID 83642 PH: 208.888.3579

Civil Engineer:

THE LAND GROUP, INC. CHAD RIETZE, P.E. CHAD@THELANDGROUPINC.COM 462 E. SHORE DR., SUITE 100 EAGLE, ID 83616 PH: 208.939.4041

Vicinity Map:

Pump Track Design-Builder: AMERICAN RAMP COMPANY

NATHAN BEMO NATHAN@AMFRICANRAMPCOMPANY.COM 601 S McKINLEY AVE JOPLIN, MO 64801 PH: 417.206.6816

Landscape Architect:

THE LAND GROUP, INC. BOB SCHAFER, P.L.A. BOB@THELANDGROUPINC.COM 462 E. SHORE DR., SUITE 100 EAGLE, ID 83616 PH: 208.939.4041

Flow Trail

Design-Builder: ALPINE BIKE PARKS JUDD DeVALL JUDD@ALPINEBIKEPARKS.COM 6404 EASY ST WHISTLER, BC VON 1B6 CANADA PH: 604.902.2552



Sheet Index:

Sheet	Sheet Title			
Number				
Construction Documents				
C0.00	COVER SHEET & NOTES			
C0.10	BIKE TRAIL & RELATED INFRASTRUCTURE NOTES			
C1.00	EXISTING CONDITIONS & DEMOLITION PLAN			
C1.50	SWPPP			
C1.55	SWPPP DETAILS			
C2.00	OVERALL SITE PLAN			
C2.01	SITE MATERIALS & LAYOUT PLAN			
C2.50	SITE DETAILS			
C4.00	SITE GRADING & DRAINAGE PLAN			
L1.00	LANDSCAPE PLAN			
L1.50	LANDSCAPE DETAILS			
L2.00	IRRIGATION PLAN			
L2.50	IRRIGATION DETAILS & NOTES			

City of Meridian QR Code



L2.50

REQUIRED ON PLANS FOR ALL PROJECTS





6 \mathbf{C} 0ð Ţ Y Σ 0 S

ш7



122129 03.08.2023 Date of Issuance: Construction Documents

Cover Sheet & Notes

CO.00

Bike Trail & Related Infrastructure Notes

PART 1 - GENERAL L SUMMARY

FIELD DESIGN AND INSTALLATION OF BIKE PARK TRAILS AND INFRASTRUCTURE HAS BEEN DEEMED AS SPECIALTY Α CONSTRUCTION WORK WITHIN THE CONSTRUCTION DOCUMENTS. TRAIL CONTRACTOR/CONSULTANT SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OWNER, DESIGNER AND OTHER CONTRACTORS AS REQUIRED TO COMPLETE ALL WORKS LISTED BELOW. B. THIS BIKE PARK SCOPE OF WORK IS SIGNIFICANT IN ITS IMPACT AND DISPERSION ON THE SITE. THIS SCOPE OF WORK HAS BEEN DETAILED BELOW SINCE MANY OF ITS COMPONENTS ARE NON-STANDARDIZED AND INTER-RELATED. C. DUE TO THE ABILITY OF RELATED WORKS TO IMPACT THE USER EXPERIENCE AND SAFETY, MANY SCOPE ITEMS SHOULD BE EXECUTED BY OR COORDINATED UNDER BIKE PARK CONTRACTOR/CONSULTANT TO ENSURE A HIGH-QUALITY EXPERIENCE AND EFFICIENT WORK FLOWS. D. LANDSCAPE AND OTHER SPECIFICATIONS MAY SUPERSEDE BIKE PARK SPECIFICATIONS WHERE CONFLICTING SPECIFICATIONS MAY IMPACT DESIGN INTENT. E. CONTRACTOR SHALL BRING ANY DISCREPANCIES AND/OR CONFLICTS BETWEEN BIKE PARK SPECIFICATIONS AND NOTES ON SHEET C0.00 TO THE ATTENTION OF THE PROJECT ENGINEER. PROJECT ENGINEER SHALL DETERMINE CONTROLLING SPECIFICATION THEREAFTER.

- II. SCOPE OF WORK THE GENERAL EXTENT OF THE BIKE PARK CONSTRUCTION WORK IS SHOWN ON THE DRAWINGS AND CAN INCLUDE, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING: A. BICYCLE TRAILS:
- 1. A BICYCLE TRAIL IS COMPRISED OF A SMOOTH, NATURALLY SURFACED TRAIL TREAD THAT IS POPULATED WITH ROLLERS, JUMPS OF VARYING SIZES, BERMED CORNERS, ENGINEERED TECHNICAL TRAIL FEATURES AND IS GRAVITY-FED RESULTING IN MINIMAL PEDALING OR BRAKING BY THE USER. B. RELATED WORK:
- 1. THIS SHALL INCLUDE ITEMS SUCH AS PRE-ENGINEERED BIKE RAMPS, SIGNS, TREE PLANTINGS, REVEGETATION AND LANDSCAPING AND OTHER APPROPRIATE INFRASTRUCTURE IN CLOSE PROXIMITY TO TRAILS. CAN INCLUDE, BUT MAY NOT BE LIMITED TO:
 - a) ENVIRONMENTAL PROTECTION b) SITE CLEARING
 - c) EARTH MOVING d) ROUGH GRADING
 - e) IRRIGATION QUICK COUPLER
- III. QUALITY ASSURANCE

A. WORK SHALL BE COMPLETED BY APLINE BIKE PARKS, LLC AND THEIR APPROVED CONTRACTORS, IF ANY. B. ALL TRAIL CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATIONS, DRAWINGS, REQUIREMENTS, AND DESIGN INTENT PRESCRIBED IN THE CONSTRUCTION AND CONTRACT DOCUMENTS. ACCEPTABLE MODIFICATIONS AND AMENDMENTS SHALL BE PRESENTED BY THE TRAIL CONTRACTOR/CONSULTANT AND APPROVED BY OWNER.

C. COMPACTION TESTING: WHERE NOT OTHERWISE REQUIRED BY SEPARATE SPECIFICATIONS, TRAIL AND TRAIL FEATURES MADE FROM SOIL SHALL BE ROLL-TESTED FOR ADEQUATE COMPACTION TO SUPPORT THE INTENDED EXPERIENCE IN A DURABLE MANNER. 1. ANY FEATURES THAT SHOW CALVING-OFF PRIOR TO FINAL COMPLETION SHALL BE REPAIRED AND COMPACTED BY BIKE PARK CONTRACTOR/CONSULTANT AT THEIR SOLE COST.

- TEST RIDING: BIKE PARK CONTRACTOR/CONSULTANT SHALL APPOINT AN EXPERIENCED MEMBER OF THEIR TEAM DESCRIBED AS DESIGN MANAGER TO OBJECTIVELY AND THOROUGHLY TEST RIDE ALL TRAILS AND TRAIL FEATURES TO ENSURE THE SPECIFIED RIDING EXPERIENCE, DESIGN, FLOW, RHYTHM, CHARACTER, DIFFICULTY, AND SPECIFICATIONS ARE MET. 1. TESTING SHALL BE PERFORMED FOLLOWING CONSTRUCTION IN CONSULTATION WITH OWNER'S REPRESENTATIVE. 2. TRAILS AND FEATURES SHALL BE MODIFIED AND CORRECTED AS NECESSARY UNTIL PERFORMANCE EXPECTATIONS ARE
 - 3. ACCEPTANCE: FINAL ACCEPTANCE OF THE TRAILS WILL BE BASED UPON THE RESULTS OBTAINED FROM THE TEST
 - RIDING AND TESTING OF OTHER SPECIFICATIONS AS REQUIRED.
- IV. JOB CONDITIONS ENVIRONMENTAL REQUIREMENTS
 - 1. TRAIL CONTRACTOR/CONSULTANT MAY SUSPEND OPERATIONS DURING EXTREMELY WET WEATHER OR FREEZING TEMPERATURES IF COMPACTION AND SHAPING CANNOT BE ACHIEVED ECONOMICALLY AND IF REQUESTED, PROJECT TIME WILL BE EXTENDED BY OWNER.
 - 2. ALTERNATIVELY, IF POSSIBLE, SOILS MAY BE STABILIZED USING QUICK LIME IN ORDER TO WORK THROUGH WET WEATHER. COSTS OF LIME STABILIZATION SHALL BE AT THE SOLE COST OF THE CONTRACTOR/CONSULTANT.
 - 3. CONTRACTOR/CONSULTANT SHALL PROTECT ALL OPEN EXCAVATIONS DURING WORK STOPPAGES DUE TO WEATHER OR B. OTHER FACTORS. OPEN EXCAVATIONS SHALL BE FENCED, AND SIGNED AS: DANGER - UNDER CONSTRUCTION - KEEP OUT. 4. DO NOT CONSTRUCT TRAILS ON ANY SURFACE WHICH IS FROZEN, SPONGY OR WHERE THERE IS STANDING WATER
 - WHICH CANNOT BE DEWATERED. 5. IF REQUIRED, STANDBY TIME AND COSTS SHALL BE MUTUALLY AGREED UPON BY OWNER AND TRAIL CONTRACTOR/CONSULTANT AND SHALL BE IN ADDITION TO UNIT COST FOR TRAIL BUILDING AND OTHER TASKS.

PART 2 - EXECUTION

GENERAL

COMPLETED PRODUCTS SHALL REFLECT PROFESSIONAL WORKMANSHIP IN APPEARANCE, QUALITY, AND ATTENTION TO DETAIL. TRAILS AND FEATURES SHALL BE WELL-INTEGRATED INTO SITE, AESTHETICALLY PLEASING IN APPEARANCE, AND WELL-SHAPED, CRAFTED, AND FINISHED ACCORDING TO COMMONLY ACCEPTED BEST PRACTICES FOR HIGH QUALITY AND SUSTAINABLE MOUNTAIN BIKING TRAILS. WORK MUST BE COMPLETED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

B. SHOULD THE BIKE PARK CONTRACTOR/CONSULTANT DISCOVER DISCREPANCIES IN THE SPECIFICATIONS, THE MATTER SHALL BE AT ONCE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND THE DISCREPANCIES CORRECTED BEFORE PROCEEDING

C. BIKE PARK CONTRACTOR/CONSULTANT SHALL LEAVE TRAILS AND THE ADJACENT AREA IN A PROFESSIONALLY FINISHED CONDITION AND MINIMIZE DISTURBANCE TO PERMANENT EXISTING VEGETATION TO THE EXTENT POSSIBLE IN COORDINATION WITH GENERAL CONTRACTOR, AND ADJACENT WORKS AS REQUIRED SUCH AS TOPSOIL SPREADING, AND IRRIGATION AND LANDSCAPE INSTALLATION.

II. FIELD DESIGN

FURTHER.

THOUGH DETAILED, THE TRAIL PLANS ARE DIAGRAMMATIC AND DO NOT REFLECT AN EXACT FINAL ALIGNMENT OR DIMENSION FOR EACH TRAIL, TRAIL IMPROVEMENT, TRAIL FEATURE, OR FILL REQUIRED TO EXECUTE THE SCOPE OF WORK. ALL TRAIL AND TRAIL IMPROVEMENT LOCATIONS AND DIMENSIONS ARE APPROXIMATE. B. BIKE PARK CONTRACTOR/CONSULTANT SHALL CREATE AN EXACT FINAL ALIGNMENT AND LOCATION FOR EACH TRAIL AND TRAIL

FEATURE. C. THE ALIGNMENTS AND LOCATIONS SHALL MEET APPROPRIATE SPECIFICATIONS AS PROVIDED IN THE CONSTRUCTION

DOCUMENTS. TRAIL ALIGNMENTS MUST BE FLAGGED IN THE FIELD USING PIN FLAGS OR OTHER AGREED-UPON METHOD AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. D. THE ALIGNMENT, LOCATION, DESIGN, AND CONSTRUCTION OF EACH INDIVIDUAL TRAIL SHALL CONFORM TO THE SPECIFICATIONS, INTENT, CHARACTER, AND DESCRIPTION FOR THAT SPECIFIC TRAIL AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. E. IF CONFLICTS ARISE IN TRAIL ALIGNMENTS, FEATURES, ARMORING, VEGETATION, LANDSCAPING, IRRIGATION, AND/OR OTHER ITEMS, BIKE PARK CONTRACTOR/CONSULTANT IS REQUIRED TO IMMEDIATELY CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING.

F. THE BIKE PARK CONTRACTOR/CONSULTANT SHALL WORK WITH THE OWNER'S REPRESENTATIVE TO IDENTIFY THE NEED TO FURTHER REFINE OR ADJUST CONSTRUCTION NOTES, LOCATION OR TYPES OF TRAILS OR FEATURES, AND MAKE MINOR ADJUSTMENTS AT THE TIME OF CONSTRUCTION. CHANGES SHALL BE CONSIDERED CHANGE ORDERS TO THE CONTRACT SHOULD THEY BE REQUIRED BY OWNER AND RESULT IN INCREASED COSTS TO CONTRACTOR/CONSULTANT.

III. TECHNICAL TRAIL FEATURES (TTF'S)

A. TTF'S SHOWN ON THE PLAN ARE DIAGRAMMATIC AND DO NOT REFLECT AN EXACT FINAL ALIGNMENT, LOCATION, OR DIMENSION FOR EACH FEATURE. THE BIKE PARK CONTRACTOR/CONSULTANT SHALL DETERMINE EXACT FINAL LOCATION AND DIMENSION OF ALL TTF'S BASED UPON FINAL TRAIL ALIGNMENT, TRAIL FLOW, CHARACTER, DIFFICULTY, AND SURROUNDING TERRAIN. B. IT IS THE BIKE PARK CONTRACTOR/CONSULTANT RESPONSIBILITY TO ENSURE THAT FINAL DIMENSIONS OF TTFS (HEIGHT, LENGTH, RADIUS, WIDTH, ETC.) FLOW APPROPRIATELY WITH THE SPEED OF TRAVEL, OTHER FEATURES AND SURROUNDING TRAILS. C. TERRAIN PARK TTF PLACEMENTS MAY (BUT ARE NOT REQUIRED TO) INCLUDE AN OPTIONAL LINE OR BYPASS TRAIL THAT PROVIDES USERS WITH AN OPEN AND OBVIOUS ROUTE TO AVOID THE TTF. THE TRAIL CONTRACTOR SHALL DETERMINE THE FINAL ALIGNMENT FOR EACH OPTIONAL LINE OR BYPASS BASED UPON THE TTF, TRAIL FLOW, DIFFICULTY, AND SURROUNDING TERRAIN. DIRT TTFS SHALL BE INCIDENTAL TO THE UNIT RATE FOR TRAIL CONSTRUCTION FOR EACH TRAIL TYPE, AS PER TRAIL DESCRIPTIONS. DIRT TTF'S THAT EXCEED THE GENERAL SIZE OR TYPE IN THE TRAIL DESCRIPTIONS SHALL BE ADDITIONAL TO THE UNIT RATE FOR TRAIL CONSTRUCTION.

D. FABRICATED AND TIMBER-FRAMED TTFS AND THEIR FOOTINGS SHALL BE ADDITIONAL TO ANY UNIT RATE FOR TRAIL CONSTRUCTION. E. ALL MANUFACTURED TTF LENGTHS ARE DIAGRAMMATIC AND LINEAR, NOT CHORD LENGTHS.

F. ALL MANUFACTURED TTF HEIGHTS ARE DIAGRAMMATIC FROM TOP OF CONCRETE FOOTING TO TOP OF COPING.

IV. TRAILS TURNS A.

1. TURNS ON THE TRAIL SYSTEM SHALL BE CAMBERED/BANKED/BERMED AS NECESSARY ACCORDING TO THE SPECIFICATIONS, DRAWINGS, INTENDED RIDING EXPERIENCE, TRAIL FLOW, TRAIL SPEED, AND DIFFICULTY. BICYCLE TRAIL TURN CONSTRUCTION SHALL BE INCIDENTAL TO THE UNIT RATE FOR TRAIL CONSTRUCTION.

VERTICAL UNDULATIONS

1. THE TRAILS SHOULD HAVE VERTICAL UNDULATIONS SUCH AS ROLLERS, JUMPS, GRADE REVERSALS, AND DIPS AS NECESSARY ACCORDING TO THE SPECIFICATIONS, DRAWINGS, INTENDED RIDING EXPERIENCE, TRAIL FLOW, TRAIL SPEED, AND DIFFICULTY. SUCH VERTICAL UNDULATIONS SHALL BE INCIDENTAL TO THE UNIT RATE FOR TRAIL CONSTRUCTION.

- C. FILL MATERIAL 1. FILL NEEDED FOR TERRAIN PARK TRAIL CONSTRUCTION, BERMS, ROLLERS, OR OTHER FEATURES MAY BE GENERATED DURING TRAIL EXCAVATION. BORROWED FROM SURROUNDING LANDSCAPE WHERE APPROPRIATE. BORROWED FROM ONSITE STOCKPILES. 2. FILL MATERIAL SHALL BE UNCONTAMINATED AND FREE OF ORGANIC MATERIAL, TRASH, AND OTHER OBJECTS. FILL MATERIAL SHALL BE PLACED, GRADED, AND COMPACTED BY TRAIL CONTRACTOR IN A MANNER THAT WILL SUPPORT THE INTENDED USE. THE NON-RIDING SURFACES OF BERMS, ROLLERS, LANDSCAPE MOUNDS, OR OTHER TERRAIN ENHANCEMENTS CREATED BY THE TRAIL CONTRACTOR SHALL NOT EXCEED A 2:1 SLOPE. THE SLOPE OF RIDING SURFACES
- SHALL BE CONSTRUCTED TO MATCH THE FLOW OF TRAIL AND THERE IS NO MAXIMUM SLOPE REQUIREMENT. COMPACTION
- 1. ALL TRAIL SUB GRADES, TRAIL TREADS, TRAIL SURFACING MATERIALS, BACK SLOPES, ROLLERS, BERMS, FILL, AND TERRAIN ENHANCEMENTS SHALL BE COMPACTED TO ROUGHLY 85% MODIFIED PROCTOR DENSITY AND IN A MANNER THAT WILL SUPPORT THE INTENDED USE. 2. REFER TO QUALITY CONTROL SECTION FOR FURTHER REQUIREMENTS.
- PLANTINGS Ε. 1. BIKE PARK CONTRACTOR/CONSULTANT SHALL DIRECT THE LOCATION OF INSTALLATION OF ALL PLANTINGS THAT IMPACT THE TRAIL USER EXPERIENCE IN ORDER TO MEET THE REQUIREMENTS OF THE USER. 2. BIKE PARK CONTRACTOR/CONSULTANT SHALL RESERVE THE RIGHT TO MODIFY LOCATIONS IN COORDINATION WITH OWNER AND LANDSCAPE ARCHITECT TO ENSURE THAT THEY COMPLIMENT THE TRAIL EXPERIENCE. 3. TO KEEP TRAIL FROM BECOMING OVER-GROWN, BIKE PARK CONTRACTOR/CONSULTANT SHALL KEEP ALL RIDING SURFACES FREE OF TOPSOIL AND MINIMIZE GROWTH OF ADJACENT PLANTINGS INTO THE TRAIL CORRIDOR.
- DRAINAGE 1. BIKE PARK CONTRACTOR/CONSULTANT SHALL BE RESPONSIBLE FOR FINE GRADING AND POSITIVE DRAINAGE AWAY FROM ALL TRAILS AND TRAIL FEATURES. A SWALE SHALL BE INSTALLED WHEREVER REQUIRED TO ENSURE THAT THERE IS NO PONDING OF SURFACE WATER ON OR ADJACENT TO THE TRAIL SURFACE. GRADING IS THE PREFERRED METHOD FOR CREATING POSITIVE DRAINAGE. 2. SHOULD DRAINAGE PIPE BE REQUIRED AS A LAST RESORT TO PRODUCE POSITIVE DRAINAGE, CULVERTS USING 6" OR
- LARGER PIPE SHALL BE INSTALLED BY BIKE PARK CONTRACTOR/CONSULTANT UNDER DIRECTION OF CIVIL ENGINEER. TRAIL SURFACING MATERIAL
- 1. TRAIL SURFACING MATERIAL SHALL BE SELECTED BY THE TRAIL CONTRACTOR/CONSULTANT AND INSTALLED TO A SUSTAINABLE DEPTH USING NATIVE MINERAL SOILS OR APPROVED IMPORTED SOILS OF SIMILAR QUALITIES. SUCH QUALITIES INCLUDE: HIGH COMPACTABILITY, GOOD PERCOLATION, GOOD TRACTION, FAST ROLLING, DURABLE IN BOTH WET and dry weather.

QUANTITIES

C

D.

A. IT SHALL BE UNDERSTOOD AND AGREED THAT QUANTITIES LISTED IN THE SPECIFICATIONS ARE ESTIMATED ONLY AND THAT BIDS MUST INCLUDE ANY AND ALL WORK REQUIRED TO ACHIEVE THE DESIGN INTENT AND PERFORMANCE SPECIFICATIONS -NOTWITHSTANDING ANY ADDITIONAL EFFORT OR INCREASED OR REDUCED QUANTITIES REQUIRED DUE TO FIELD FIT OR OTHER SITE CONDITIONS.













SWPPP Posting Requirements:

- 1. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR APPLYING FOR OBTAINING THE IDAHO DEQ NOTICE OF INTENT (NOI).
- 2. A COMPLETE COPY OF THE SWPPP (INCLUDING A COPY OF THE CONSTRUCTION GENERAL PERMIT AND COMPLETED INSPECTION FORMS), NOI, AND ACKNOWLEDGEMENT LETTER FROM EPA MUST BE RETAINED AT THE CONSTRUCTION SITE (OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS) AND MADE AVAILABLE FOR REVIEW BY EPA, A STATE, OR OTHER LOCAL APPROVING AGENCY .
- 3. A SIGN OR OTHER NOTICE MUST BE POSTED IN A CONSPICUOUS LOCATION NEAR THE CONSTRUCTION ENTRANCE. THE SIGN OR OTHER NOTICE MUST CONTAIN THE FOLLOWING INFORMATION: • AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION AS WELL AS THE ADDRESS OF THE SITE, THE PERMIT HOLDER'S NAME AND THE PHONE NUMBER OF THE STORMWATER POLLUTION HOTLINE (208.395.8888) MUST BE DISPLAYED THROUGHOUT CONSTRUCTION
 - THE UNIFORM RESOURCE LOCATOR (URL) FOR THE SWPPP (IF AVAILABLE), OR THE FOLLOWING STATEMENT: "IF YOU WOULD LIKE TO OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE, CONTACT THE EPA REGIONAL OFFICE AT EPA REGION 10 STORMWATER PROGRAM MISHA VAKOC (VAKOC.MISHA@EPA.GOV) (206) 553-6650 " • AND THE FOLLOWING STATEMENT "IF YOU OBSERVE INDICATORS OF STORMWATER POLLUTANTS IN THE DISCHARGE OR IN THE RECEIVING WATERBODY, CONTACT THE EPA THROUGH THE FOLLOWING WEBSITE: HTTPS://WWW.EPA.GOV/ENFORCEMENT/REPORT-ENVIRONMENTAL-VIOLATIONS." • THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE.
- THE NOTICE MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.
- 4. THE SWPPP MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, SECTION I.11 OF THE CONSTRUCTION GENERAL PERMIT.
- 5. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR OBTAINING THE IDAHO DEQ FORMS FOR N.O.T. (NOTICE OF TERMINATION).

SWPPP General Notes:

- 1. ALL BMP NUMBERS ARE REFERENCED FROM IDAHO DEQ BEST MANAGEMENT PRACTICES. 2. ALL STORM WATER WILL BE CONTAINED ON SITE.
- 3. ALL BMP'S SHALL BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS -OR- ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING 0.25 INCHES OR GREATER. INSPECTION FREQUENCY MAY BE REDUCED TO ONCE EVERY MONTH IF:
- A. THE ENTIRE SITE IS TEMPORARILY STABILIZED, OR B. RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS, OR
- C. CONSTRUCTION IS OCCURRING DURING SEASONAL ARID PERIODS (MAY THROUGH SEPTEMBER) IN ARID AREAS AND SEMI-ARID AREAS. DEWATERING IS NOT ANTICIPATED FOR CONSTRUCTION ON THIS SITE. IN THE EVENT DEWATERING IS REQUIRED,
- REFER TO IDEQ BMP 73 FOR GUIDANCE ON DEWATERING OPERATIONS. STREET SWEEPING WILL BE IMPLEMENTED ON AN AS-NEEDED BASIS AS DETERMINED BY THE SWPPP 5.
- RESPONSIBLE PERSON. 6. PROVIDE WASTE CONTAINERS FOR BUILDING MATERIALS IN WASTE STORAGE CONTAINMENT AREA. WASTE DISPOSAL DUMPSTERS MUST HAVE LIDS, OR PROVIDE COVER OR A SIMILARLY EFFECTIVE MEANS TO MINIMIZE
- THE DISCHARGE OF POLLUTANTS. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND AT THE END OF THE BUSINESS DAY. DISPOSE AT A FREQUENCY ACCORDING TO CONTAINER SIZE. 7. LOCATE ALL PORTABLE RESTROOMS AS FAR FROM PUBLIC AND PRIVATE STORM DRAIN SYSTEMS AS POSSIBLE. ANCHOR TO PREVENT VANDALISM.
- 11. SLURRY AND CUTTINGS FROM SAWCUTTING OF CONCRETE OR ASPHALT SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS. 12. ALL EXCESS MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LOCATION. EXCESS MATERIAL MAY BE TEMPORARILY STORED ON SITE (IF APPROVED BY THE OWNER) AT A PRE-APPROVED Location. If material is stockpiled for more than 14 days stockpile is to be stabilized per BMP
- #44. 13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ISPWC.
- 14. SEE LANDSCAPE AND MATERIALS PLANS FOR INFORMATION CONCERNING FINAL SOIL STABILIZATION MEASURES. 15. ALL GRADING, UTILITY, AND ROADWAY CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 9:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER. 16. ANY MODIFICATIONS TO THIS PLAN REQUIRE APPROVAL OF THE DESIGNER OR THE ONSITE RESPONSIBLE
- PERSON. 7. TOTAL DISTURBED AREA FOR THIS WORK IS APPROXIMATELY **3.36 ACRES**. 18. UPON CONTRACT APPROVAL BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE PLAN DRAWINGS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED HEREIN.

	OWNER/DEVELOPER:	CITY OF MERIDIAN PARKS & RECREATION 33 E. BROADWAY AVE., SUITE 206 MERIDIAN, ID 8383642 PH.: 208.888.3579	
	PRIMARY CONTACT:	MIKE BARTON	
	CONTRACTORS:	AMERICAN RAMP COMPANY NATHAN BEMO NATHAN@AMERICANRAMPCOMPANY.COM 601 S McKINLEY AVE JOPLIN, MO 64801 PH: 417.206.6816	ALPINE BIKE PARKS JUDD Devall JUDD@Alpinebikeparks.com 6404 Easy ST Whistler, BC Von 1B6 Canada PH: 604.902.2552
/	ESC RESPONSIBLE PERSON: LICENSE NO: EXPIRATION: PHONE:	TBD	
	PLAN PREPARER:	DAVID DUPERAULT, PLA THE LAND GROUP, INC. 462 E. SHORE DR., STE. 100 EAGLE, IDAHO 83616 PHONE: 208.939.4041	
	PROJECT ENGINEER:	THE LAND GROUP, INC. 462 E. SHORE DR., STE. 100 EAGLE, IDAHO 83616 PRIMARY CONTACT: JASON DENSMER, PE PHONE: 208.939.4041	
/	SWPPP/ESC Leg	gend:	
		LIMITS OF DISTURBANCE	
	2750	PROPOSED GROUND CONTOUR (ONE-FOOT INTEL ARROWS	RVAL) WITH DIRECTIONAL SLOPE
/	2750	APPROXIMATE EXISTING GROUND CONTOUR (ON DIRECTIONAL SLOPE ARROWS	E-FOOT INTERVAL) WITH
	———— FW ————	FIBER ROLLS PER STATE OF IDAHO CATALOG OF MANAGEMENT PRACTICES BMP #64. SEE DETA PRIOR TO EARTH-DISTURBING ACTIVITIES AND F	STORM WATER BEST ILS ON SHEET C1.55. INSTALL EMOVE UPON FINAL STABILIZATION
	XXX	DROP INLET PROTECTION PER BMP #13, SEE DE	TAIL 3/C1.55.
		DROP INLET PROTECTION PER BMP #13, SEE DE PORTABLE RESTROOM PER THE STATE OF IDAHO (HAIL 1/C1.55.
	K W	MANAGEMENT PRACTICES BMP #50. CONCRETE WASHOUT PER THE STATE OF IDAHO C/ MANAGEMENT PRACTICES BMP #49 AND DETAIL C	ATALOG OF STORM WATER BEST DN SHEET C155.
		MATERIALS STORAGE AND PARKING AREAS PER T STORM WATER BEST MANAGEMENT PRACTICES B	HE STATE OF IDAHO CATALOG OF MP #37.

Soil Stabilization

* * * * * * * * * * * * * * * * * *

......

1. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

DETAIL 1/C155.

SHEETS.

2. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL IN

PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE

LANDSCAPE STABILIZATION AREAS PER THE STATE OF IDAHO CATALOG OF STORM

WATER BEST MANAGEMENT PRACTICES BMP #32, COORDINATE WITH LANDSCAPE

DIRT TRACK AREA FOR BICYCLES. WILL NOT BE STABILIZED; SURROUNDED BY

ASPHALT STABILIZATION AREAS, COORDINATE WITH SHEET C2.01.

VEGETATED AREA AND WILL BE REGULARLY GROOMED.

PUMP TRACK AREA, COORDINATE WITH SHEET C2.01.

- PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED BUT IN NO CASE MORE THAT 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 3.1. WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL. 3.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH
- DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

NOTE: ONE OF THE FOLLOWING TEMPORARY SOIL STABILIZATION PRACTICES SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND/OR WHERE SHOWN ON PLAN, UNLESS CONDITIONS AS LISTED ABOVE DICTATE OTHERWISE:

- 1. MULCHING (BMP 52) APPLY GRAVEL, STRAW, GRASS, COMPOST, WOOD CHIPS OR WOOD FIBERS TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A Complete Description, AND/OR:
- 2. GEOTEXTILE (BMP 53) APPLY NONBIODEGRADABLE SYNTHETIC FABRIC TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, AND/OR: MATTING (BMP 54) - APPLY BIODEGRADABLE WOVEN OR JUTE FIBER MAT TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION.

PERMANENT SOIL STABILIZATION BMPS: SEEDING, SODDING, AND PLANTING (BMP 32) - COORDINATE WITH THE APPROVED LANDSCAPE PLAN FOR LOCATIONS.



 $C1_{-}50$

S S ш



 \bigcirc



D

















 $\underline{/1}$

J D





REFER TO SHEET C2.01 FOR MORE INFO.





Date of Issuance: Construction Documents Project Milestone:

Overall Site Plan

C2.00

03.08.2023



dol	sh	eet Notes:
	А. В.	CONTRACTOR SHALL COMPLY WITH ALL NOTES, PLA REFER CLOSELY TO SITE LAYOUT DRAWINGS IN RE
	– _{C.}	TO CONSTRUCTION.
		GRADES IN THE FIELD AND BRING ANY DISCREP ATTENTION OF THE OWNER'S REPRESENTATIVE F PRIOR TO COMMENCING WITH THE WORK.
	D.	COORDINATE INSTALLATION OF ELECTRICAL (IRRIGATION SLEEVES WITH RESPECTIVE DI CONTRACTORS, AS REQUIRED.
	E.	ALL WALKS AND FLATWORK SHALL BE ESTABLISH FOR REVIEW AND APPROVAL. THE CONTRACTOR SH AREA OR FORM WORK FOR REVIEW BY REPRESENTATIVE. AFTER REVIEW AND NECESSARY AS DIRECTED BY THE OWNER'S REPRESENTATIVE, TH SHALL PROCEED WITH CONSTRUCTION. IF APP OBTAINED, THE CONTRACTOR IS RESPONSIBLE FC
	F.	TRANSITION OF CURVES TO OTHER CURVES AI TANGENTS SHALL BE SMOOTH AND CONTINUOUS.
	G.	CONTRACTOR SHALL COMPLY WITH ADA ACCESSIBIL WITHIN THE PUBLIC RIGHT-OF-WAY THROUGHOUT TI THE PROJECT AS REQUIRED BY THE AUTH JURISDICTION.
	H.	LONGITUDINAL SLOPE OF ALL SIDEWALKS SHALL NOT CROSS SLOPES OF ALL SIDEWALKS SHALL NOT SLOPES WITHIN PEDESTRIAN RAMPS AND WINGS SH 1:12 SLOPE. THERE ARE NO TOLERANCES ALLOV MAXIMUM SLOPES
OXIMATE < LIMIT:	Ke	ynotes:
	1.	BIKE PARK ENTRY SIGN, FURNISHED AND INSTALLED I MERIDIAN.
	2. 3. 4.	TRAIL MAP SIGN, FURNISHED AND INSTALLED BY CITY MERIDIAN. EXISTING TEMPORARY TURN-AROUND. PUMP TRACK. DESIGN BY AMERICAN RAMP CO., REFE DETAIL 3/C2.50, FOR REFERENCE ONLY.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5. 6. 7.	RETURN TRAIL. FLOW TRAIL POINT OF ENTRY. FLOW TRAIL PATHWAY AND FEATURES, REFER TO
(-, +, +, +, +, +, +, +, +, +, +, +, +, +,	7.1 7.2	DETAILS ON SHEET C2.50, FOR REFERENCE ONLY. BEGINNER / GREEN INTERMEDIATE / BLUE
	7.3 8. 9. 10. 11.	BASEBALL FIELD LANDSCAPE BUFFER. PEDESTRIAN RAMP AND CROSSWALK, BY OTHERS. POTENTIAL STOCKPILING AREA. DRAINAGE FACILITY. REFER TO SHEET C4.00.
	M	aterial Legend
	+ + + + + + + + +	LANDSCAPE AREA + + + + + + + + + + + + + + PER L1.00 SERIES.
		PUMP TRACK BY AMERICAN RAMP COMPANY.
		2" TO 4" COBBLE ROCK AT 6" DEPTH, LOCALLY SOURCED.
	(7.1)	BEGINNER GREEN FLOW TRAIL
$\begin{array}{c} 3 \\ 7.2 \\ + + + + + + + + + + + + + + + + + + $		FEATURE/LANDING IDENTIFICATION
		LEFT BERM
$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $	START TO FINISH	
		RIGHT BERM
		TABLE TOP JUMP
		END BERM
	(7.2)	INTERMEDIATE BLUE FLOW TRAI
		FEATURE/LANDING IDENTIFICATION
		DOUBLE JUMP
		ROLLER DOUBLE JUMP
	START TO FINISH	
		DOUBLE JUMP WITH SPLIT LANDINGS
		END BERM
	(7.3)	EXPERT BLACK FLOW TRAIL
	START TO FINISH	STEP UP JUMP
		END BERM

MPLY WITH ALL NOTES, PLAN SHEET CO.00.

TE LAYOUT DRAWINGS IN RELATION TO SITE ACTOR TO VERIFY LISTED DIMENSIONS PRIOR

ALL VERIFY ALL DIMENSIONS DISTANCES AND D AND BRING ANY DISCREPANCIES TO THE DWNER'S REPRESENTATIVE FOR A DECISION G WITH THE WORK.

ATION OF ELECTRICAL CONDUITS AND WITH RESPECTIVE DRAWINGS AND

TWORK SHALL BE ESTABLISHED IN THE FIELD ROVAL. THE CONTRACTOR SHALL LAYOUT THE WORK FOR REVIEW BY THE OWNER'S TER REVIEW AND NECESSARY MODIFICATIONS OWNER'S REPRESENTATIVE, THE CONTRACTOR TH CONSTRUCTION. IF APPROVAL IS NOT RACTOR IS RESPONSIBLE FOR REMOVAL OF D ADJUSTMENTS.

S TO OTHER CURVES AND CURVES TO 100TH AND CONTINUOUS.

MPLY WITH ADA ACCESSIBILITY GUIDELINES, HT-OF-WAY THROUGHOUT THE DURATION OF REQUIRED BY THE AUTHORITY HAVING

DF ALL SIDEWALKS SHALL NOT EXCEED 5.00%. LL SIDEWALKS SHALL NOT EXCEED 2.00%. TRIAN RAMPS AND WINGS SHALL NOT EXCEED RE NO TOLERANCES ALLOWED ABOVE THE

-(#) FURNISHED AND INSTALLED BY CITY OF

HED AND INSTALLED BY CITY OF

AMERICAN RAMP CO., REFER TO

FLOW TRAIL PATH PER DETAIL 1/C2.50.

STANDARD ASPHALT PAVEMENT PER DETAIL 4/C2.50.







Project No .: Date of Issuance: Project Milestone:

122129 03.08.2023 Construction Documents

Layout & Materials Plan

C2.01















Sheet Notes:

- A. EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- B. ADD 2700' TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION. C. SPOT ELEVATIONS INDICATE TOP OF FINISH GRADE SURFACE
- UNLESS NOTED OTHERWISE AS FOLLOWS: FL = FLOW LINE GB = GRADE BREAK
- HP = HIGH POINT
- LIP = LIP OF GUTTER
- LP = LOW POINTMX = MATCH EXISTING
- TA = TOP OF ASPHALTTBC = TOP BACK OF CURB
- TC = TOP OF CONCRETE
- D. SIDEWALK HARDSCAPE SHALL NOT EXCEED 2.0% CROSS SLOPE OR HAVE CROSS SLOPE LESS THAN 1.0%. LONGITUDINAL SLOPES SHALL NOT EXCEED 5%. SLOPES WITHIN PEDESTRIAN RAMPS SHALL NOT EXCEED 12:1 (H:V). NO TOLERANCES FOR SLOPES EXCEEDING MAXIMUMS WILL BE ALLOWED.
- E. FINISH GRADE CONTOURS AND EARTHWORK VOLUMES DO NOT ACCOUNT FOR BIKE PARK FEATURES.
- F. VOLUMES SHOWN IN EARTHWORK TABLE, THIS SHEET, ARE BASED ON DISCOVERY PARK: PHASE 2 DESIGN DRAWINGS. INFORMATION ON THIS SHEET DOES NOT ACCOUNT FOR ANY MATERIAL LEFT ON-SITE BY PHASE 2 CONTRACTOR.
- G. PUMP TRACK GRADING AND DRAINAGE DESIGN SHALL BE COMPLETED BY OTHERS. THE LAND GROUP, INC. TAKES NO RESPONSIBILITY FOR WORK BY OTHERS.

Keynotes:

- 1. DRAINAGE WINDOW, SEE DETAIL 5/L1.50 AND LANDSCAPE PLAN FOR ADDITIONAL INFORMATION.
- 1.1. INFILTRATION WINDOW AREA: 304-SF DESIGN INFILTRATION RATE: 8 IN/HR FREE DRAINING SOIL ANTICIPATED AT 1.75-FT BELOW
- FINISH GRADE 1.2. INFILTRATION WINDOW AREA: 181-SF DESIGN INFILTRATION RATE: 8 IN/HR FREE DRAINING SOIL ANTICIPATED AT 1.25-FT BELOW FINISH GRADE
- 1.3. INFILTRATION WINDOW AREA: 284-SF DESIGN INFILTRATION RATE: 8 IN/HR FREE DRAINING SOIL ANTICIPATED AT FINISH GRADE
- 1.4. INFILTRATION WINDOW AREA: 158-SF DESIGN INFILTRATION RATE: 8 IN/HR FREE DRAINING SOIL ANTICIPATED AT 6.35-FT BELOW FINISH GRADE
- 2. DRAINAGE CULVERT, INSTALL FLARED END SECTION ON BOTH SIDES OF CULVERT, PROVIDE $D_{50} = 0.50$ ' RIP-RAP AT EACH END AND 1-FT ON EITHER SIDE OF PIPE. RIP-RAP SHALL BE SET FLUSH WITH PROPOSED FINISH GRADE AT INVERT.
- CONVEYANCE SWALE, GRADING PER PLAN.
 3.1. 3-FT FLAT BOTTOM.
- 3.2. 2-FT FLAT BOTTOM.
- 4. PUMP TRACK, GRADING AND DRAINAGE BY OTHERS.

Line Legend:

/--- APPROXIMATE GRADING

BOUNDARY

GB	GBAD
FL	FLUW

Bike Park:

Estimated Earthwor	'k
TOTAL CUT (-)	4
TOTAL FILL (+)	2
NET	1

k Volumes .085-CY 2,350-CY ,735-CY (CUT)



50 Ð \geq of (E HAZI ID 836 \bigcirc DISC e lak Dian, City 2121 MERI Project No.: Date of Issuance 03.08.2023 Project Milestone: Construction Documents

Site Grading & Drainage Plan C4.00

Þ 🛛 °_____° . in in int Horizontal Scale: 1" = 30'



Keynotes:

	LAWN AND HYDRO-SEED EDGE.
2.	DRAINAGE FACILITY/STRUCTURE, SEE GRADING AND DRAINAGE
	INFORMATION.
Ма	aterial Legend
* *	· • • •

	TURF SOD: "4EVER BLUE", 80% KENTUCKY BLUE AND EQUAL. REFERENCE ALL SHEET NOTES ON L1.50.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	HYDRO-SEED STANDARD TURF MIX: 80% KENTUCKY VARIETIES ARE EQUAL PARTS JACKPOT, EVERGLADE, REFERENCE ALL SHEET NOTES ON L1.50.
<pre>////////////////////////////////////</pre>	MEDIUM GRIND WOOD MULCH AT 3" DEPTH, LOCALLY SO REFERENCE ALL SHEET NOTES ON L1.50.
	BASALT BOULDERS, 3'-4' DIA. LOCALLY SOURCED, SEE D

 PLANT SCHEDULE

 TREES
 CODE

 BOTANICAL / COMMON NAME
 * LIF

LIRIODENDRON TULIPIFERA `EMERALD CITY` TM / EMERALD CITY TULIP TREE CLASS III; 55`H X 25`W



E PLANS FOR MORE

ID 20% RYE OR APPROVED

KY BLUE AND 20% RYE. BLUE DE, NUBLUE, & BLUEYTIP PLUS.

SOURCED.

E DETAIL 2/L1.50.

	SIZE	QTY
Υ`	2" CAL.	7







Landscape Notes:

- DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY. D. NO SUBSTITUTIONS FOR ANY OF THE SPECIFIED PRODUCTS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFERENCE CIVIL DRAWINGS TO CONFIRM LANDSCAPE GRADING. ALL EXISTING OR NEW LANDSCAPE AREAS ABUTTING NEW FLATWORK OR DIRT BIKE PATH SHALL BE GRADED TO PROVIDE A UNIFORM SLOPE AWAY FROM FLATWORK/DIRT BIKE PATH, WHETHER OR NOT LANDSCAPE GRADING IS DESCRIBED ON PLANS. PROVIDE A SMOOTH TRANSITION FROM FLATWORK/DIRT BIKE PATH TO ABUTTING LANDSCAPE.
- ANY EXISTING LANDSCAPE AREAS REQUIRING A GRADE ADJUSTMENT SHALL BE REPAIRED TO A HEALTHY CONDITION. G. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING TURF AREAS TO NEW SEED/SOD AREAS. H. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF
- NURSERYMAN'S NATIONAL STANDARD SPECIFICATIONS. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND DRAWING NOTES. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR.
- FINISH GRADES TO BE SMOOTH AND EVEN GRADIENTS WITH POSITIVE DRAINAGE IN B. MIXES: ACCORDANCE WITH SITE GRADING PLAN. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. PLACE MULCH (TYPE PER PLANS) OVER SUBGRADE SOIL TO ACHIEVE FINISH GRADE. FINISH GRADE RELATED TO ADJACENT SITE ELEMENTS SHALL BE:
- K.1. 1-INCH BELOW TOP OF ADJACENT PAVEMENT, VALVE BOX, VAULT, ETC. 3-INCHES BELOW TOP OF CURB UNLESS NOTED OTHERWISE K.2.
- ALL PLANTING BEDS SHALL HAVE A MINIMUM OF 18" OF TOPSOIL, SOD AREAS A MINIMUM OF 12" OF TOPSOIL. SPREAD, COMPACT AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE. RE-USE EXISTING SURFACE TOPSOIL WHERE POSSIBLE. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING REQUIREMENTS AND AMEND WHEN NECESSARY TOPSOIL SHALL BE A LOOSE, FRIABLE, SANDY LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, WEED SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND A PH OF 6.5 TO 7.5. IF ON-SITE TOPSOIL DOES NOT MEET THESE MINIMUM
- STANDARDS, CONTRACTORS ARE RESPONSIBLE TO EITHER: A) PROVIDE APPROVED IMPORTED TOPSOIL, OR B.) IMPROVE ON-SITE TOPSOIL WITH METHODS APPROVED BY LANDSCAPE ARCHITECT. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. CLEAN TOPSOIL OF ROOTS, PLANTS, SODS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
- N. IF IMPORTED TOPSOIL FROM OFF-SITE SOURCES IS REQUIRED, PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
- OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 4 INCHES. P. ALL LANDSCAPE AREAS SHALL BE WEED FREE AT THE TIME OF LANDSCAPE INSTALLATION.
- REMOVE ALL ROOTS, WEEDS, ROCKS AND FOREIGN MATERIAL ON THE SURFACE. Q. NEW TREE PLANTING, SEE DETAIL 1/L1.50. CONTRACTOR SHALL STAKE ALL TREES DEEMED NECESSARY, I.E..... FROM BEING BLOWN OVER, PLANTED WITH LOOSE ROOT BALL, ETC. CONTRACTOR'S OPTION.
- R. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT IN A SOUND AND HEALTHY CONDITION.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. REPLACE ALL PLANT MATERIAL FOUND DEAD OR NOT IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO
- COST TO THE OWNER. TREE PIT BACKFILL PLANTING MIX: BLEND TOPSOIL AND SOIL AMENDMENTS AND FERTILIZER FOR TREE PIT BACKFILL AT THE FOLLOWING RATES. BLEND AMENDMENTS THOROUGHLY WITH SOIL BACKFILL. TREE PITS SHALL BE 5'x5'x1.5' (37.5 CF/ 1.5 CY). T.1. APPLICATION RATES:
- -HUMIC ACID: 25 LBS PER TREE PIT COMMERCIAL GRADE COMPOST: 10 CUBIC FEET PER TREE PIT -PLANTING TABLET FERTILIZER: 4 TABLETS PER TREE PIT (AGRIFORM 20-10-5)
- CALCIFIED DIATOMACEOUS EARTH: 75 LBS PER TREE PIT IMMEDIATELY CLEAN UP ANY TOPSOIL OR OTHER DEBRIS ON THE SITE CREATED FROM LANDSCAPE OPERATIONS AND DISPOSE OF PROPERLY OFF SITE. CONTRACTOR SHALL SUBMIT MATERIAL SAMPLES FOR LANDSCAPE MULCH TO LANDSCAPE

Landscape & Irrigation Preservation Notes:

- 1. CONTRACTOR SHALL ENSURE 100% FUNCTIONALITY OF EXISTING IRRIGATION SYSTEM DURING AND AFTER CONSTRUCTION.
- CONTRACTOR SHALL REPLACE/REPAIR ANY DAMAGED LANDSCAPE, LAWN, EXISTING PIPING AND/OR COMPONENTS AT NO COST TO OWNER.

CONTRACTOR SHALL REPORT TO LANDSCAPE ARCHITECT ALL CONDITIONS WHICH IMPAIR AND/OR PREVENT THE PROPER EXECUTION OF THIS WORK, PRIOR TO BEGINNING WORK. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY

ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT. LANDSCAPE BOULDERS, PHOTO SUBMITTAL IS ADEQUATE. FOR BARK MULCH, SUBMIT 1 GALLON BAG SAMPLE TO OWNER.

Hydro-Seeding Notes

A. MATERIALS A.1. HYDRO-MULCH MATERIAL:

A.1.c.

- A.1.a. CELLULOSE WOOD FIBER WITH NO GROWTH OR GERMINATION INHIBITING FACTORS. DYED GREEN. MATERIAL SHALL HAVE EQUILIBRIUM AIR-DRY MOISTURE CONTENT OF TWELVE (12) PERCENT, PLUS OR MINUS TWO (2) PERCENT, AT TIME OF MANUFACTURF. A.1.b.
 - FIBER SHALL DISPERSE RAPIDLY IN WATER FORMING HOMOGENEOUS SLURRY AND REMAINING IN SUCH STATE WHEN AGITATED IN HYDRO-MULCHING EQUIPMENT. QUALITY STANDARD: SOILGUARD BY MAT INC, FLOODWOOD, MN WWW.MATINC.BIZ.
- A.2. BINDERS: A.2.a. TACKIFIER TO BIND SOIL AND MULCH TOGETHER TO PREVENT EROSION. A.2.b. AM-TAC BY AZ-TAC PRODUCTS INC, OR APPROVED EQUAL.
- A.3. FUNGICIDE A.3.a. APPROVE THROUGH SUBMITTALS.
- SEED SHALL BE PROVIDED FROM AND MIXED BY A CERTIFIED DEALER. SEED MIXTURE A.4. SHALL BE LABELED WITH MANUFACTURER'S GUARANTEED ANALYSIS, GERMINATION RATE AND PURITY RATE SEED TREATMENT: ONSET SEED NECTAR. MANUFACTURED BY NECTERNAL, IDAHO FALLS, A.5.
- ID, CONTACT DAVE (208)680-0578, TOLL FREE (866)767-7996 OR WWW.NECTERNAL.COM. WATER: CLEAN, FRESH AND FREE OF SUBSTANCES OR MATTER WHICH COULD INHIBIT A.6. VIGOROUS GROWTH OF GRASS.
- B.1. AMOUNT OF HYDRO-MULCH SHALL BE APPROX. 1800 LBS PER ACRE. ADD WATER AS NECESSARY TO PROVIDE SUITABLE SLURRY MIXTURE. B.2.
- ADD FUNGICIDE AT RATES RECOMMENDED BY MANUFACTURER ON INSTALLATIONS MADE B.3. BETWEEN 1ST OF APRIL AND 30 SEPTEMBER. B.4. SPECIALTY SEEDED AREAS: ADD BINDER AT RATES RECOMMENDED BY MANUFACTURER ALWAYS WHERE SLOPES ARE 5:1 OR OVER, AND ALL OTHER AREAS BETWEEN 1ST OF OCTOBER AND 31 MARCH.
- APPLICATION: C.1. TOLERANCES FINAL GRADE OF SOIL AFTER SEEDING OF LAWN AREAS IS COMPLETE SHALL BE ONE C.1.a. INCH BELOW TOP OF ADJACENT PAVEMENT OF ANY KIND. C.1.b. ALL PLANTING AREAS SHALL BE WEED FREE AT THE TIME OF SEED INSTALLATION. C.2. AFTER SEED AREAS ARE GRADED, APPLY SPECIFIED SLURRY MIX WITH MACHINE CAPABLE OF CONTINUOUSLY MIXING SLURBY AND PROVIDING AN APPLICATION MEETING CONTRACT DOCUMENT REQUIREMENTS. HYDRO-MULCH SHALL FORM AN ABSORPTIVE MAT, BUT NOT A PLANT INHIBITING MEMBRANE, WHICH WILL ALLOW WATER TO PERCOLATE INTO
- UNDERLYING SOIL. C.3. POST APPLICATION WATERING: C.3.a.
- ALLOW SLURRY MIXTURE TO 'SET.' WATER HYDRO-SEEDED AREAS SUFFICIENTLY TO INSURE PROPER SEED C.3.b. GERMINATION, BUT NOT CAUSE EROSION OR SLOPE FAILURE. REPEAT WATERING AT A. MAINTENANCE SHALL BE ACCORDING TO THE FOLLOWING STANDARDS. ALL AREAS SHALL REGULAR INTERVALS TO KEEP SEED GERMINATING AND GROWING UNTIL PLANTINGS ARE ESTABLISHED
- C.3.c. AFTER PLANTINGS ARE ESTABLISHED, DECREASE FREQUENCY AND INCREASE AMOUNT OF WATER PER APPLICATION AS NECESSARY TO MEET PLANT WATER REQUIREMENTS
- IF FUNGICIDE HAS BEEN APPLIED WITH SLURRY MIX, MAKE A SECOND APPLICATION OF C.4. FUNGICIDE FOURTEEN (14) DAYS AFTER INITIAL APPLICATION. WEED ABATEMENT:
- ALL AREAS TO BE SEEDED SHALL HAVE WEED ABATEMENT OPERATIONS PERFORMED AFTER PLACEMENT OF SOIL AMENDMENTS AND FINISH GRADING AND PRIOR TO SEEDING OPERATIONS.
- UPON COMPLETION OF FINISH GRADING, THE CONTRACTOR SHALL CONFIRM ALL AREAS ARE VISIBLY WEED FREE. CONTRACTOR SHALL SPRAY ALL EXPOSED WEEDS WITH COMBINATION OF 2,4-D AND ROUNDUP. COMPLY WITH MIXING/APPLICATION INSTRUCTIONS ON PRODUCT LABEL. DO NOT WATER FOR AT LEAST THREE (3) DAYS FOLLOWING APPLICATION.
- IRRIGATE ALL LANDSCAPE AREAS TO APPLY 1-INCH OF PRECIPITATION OVER A 2 DAY PERIOD. AT CONCLUSION OF THIS WATERING PERIOD, DISCONTINUE WATERING FOR SEVEN (7) DAYS.
- AFTER THE SEVEN DAY PERIOD INSPECT THE SITE. APPLY APPLICATION OF COMBINATION 2.4-D AND ROUNDUP TO ALL VISIBLE WEEDS. APPLY IN STRICT CONFORMANCE WITH MANUFACTURER'S PRODUCT LABEL. DO NOT WATER FOR AT LEAST THREE (3) DAYS, REMOVE ALL EXPOSED WEEDS FROM THE SITE.
- D.5. WEED ABATEMENT OPERATIONS SHALL BE SEQUENCED TO BE COMPLETE NO MORE THAN 7 DAYS PRIOR TO SEEDING OPERATIONS. IT IS ACCEPTABLE TO PHASE WEED ABATEMENT AREAS TO MATCH PHASED INSTALLATION OF SEED AREAS.

Soil Amendment Notes: PRODUCTS

- A.1. SOIL AMENDMENT: COMPOST A.1.a. COMPOST SHALL BE MEASURED BY THE CUBIC YARD AT THE POINT OF LOADING. A.1.b. COMPOST SHALL BE A WELL DECOMPOSED, STABLE, WEEDFREE ORGANIC MATTER SOURCE. IT SHALL BE DERIVED FROM AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS: BIOSOLIDS (TREATED SEWAGE SLUDGE); YARD TRIMMINGS OR SOURCE-SEPARATED OR MIXED SOLID WASTE. THE PRODUCT SHALL CONTAIN NO SUBSTANCES TOXIC TO PLANTS, WILL POSSESS NO OBJECTIONABLE ODORS AND SHALL NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED.
- A.1.c. COMPOST SHALL MEET THE FOLLOWING PARAMETERS: 1) PH - ACCEPTABLE RANGE: 6.0 - 8.4 (1:5 BY WEIGHT)
- 2) SOLUBLE SALTS ACCEPTABLE RANGE: 0-7 MMHOS/CM (1:5 BY WEIGHT) 3) MATURITY INDICATORS:
- a. AMMONIA N / NITRATE N RATIO < 4b. CARBON TO NITROGEN RATION < 12
- 4) PARTICLE SIZE: 98% PASS THROUGH 1/2-INCH SCREEN. 5) PHYSICAL CONTAMINANTS (INERT MATTER): LESS THAN 1%
- 6) SUBMIT LAB TESTING INDICATING COMPLIANCE WITH THE PARAMETERS ABOVE. LAB TESTING SHALL ALSO PROVIDE THE FOLLOWING INFORMATION: BULK DENSITY; % INORGANICS: % MOISTURE: PARTICLE SIZE DISTRIBUTION. PRIMARY & SECONDARY NUTRIENTS; TRACE ELEMENTS; ORGANIC MATTER EXPRESSED IN PERCENTAGE AND POUNDS PER CY.
- A.2. SOIL AMENDMENT: PRE PLANT FERTILIZER. A.2.a. PLANT/TREE NPK PRE-PLANT: APEX 14-14-14 WITH GAL-XE-ONE.
- A.2.b. HUMIC ACID: LIVE EARTH HUMATE SOIL CONDITIONER. A.2.c. OR APPROVED EQUAL.
- A.3. SOIL AMENDMENT: TURF STARTER FERTILIZER. A.3.a. SIMPLOT BEST TRIPLE PRO 15-15-15.
- A.3.b. OR APPROVED EQUAL. B. EXECUTION
- B.1. SOIL AMENDMENTS: AFTER APPROXIMATE FINISHED GRADES HAVE BEEN ESTABLISHED SOIL SHALL BE CONDITIONED AND FERTILIZED IN THE FOLLOWING MANNER. SOIL AMENDMENTS SHALL, AT THE FOLLOWING RATE, BE UNIFORMLY SPREAD AND CULTIVATED THOROUGHLY BY MEANS OF MECHANICAL TILLER INTO THE TOP SOIL LAYER; MINIMUM 4 INCH DEPTH AND MAXIMUM 6 INCH DEPTH. B.1.a. APPLICATION RATES: PER MANUFACTURER'S STANDARDS.
- PLACEMENT AND TILLING OF SOIL AMENDMENTS LISTED IN THIS SECTION MUST BE B 2 COMPLETED PRIOR TO SOD PLACEMENT. CONTRACTOR SHALL PHOTO DOCUMENT INSTALLATION OF ALL SOIL AMENDMENTS AND MECHANICAL TILLING AND PROVIDE TO THE ARCHITECT FOR REVIEW AND APPROVAL.

Establishment & Maintenance Notes:

- SOD ESTABLISHMENT A. GENERAL: STARTING IMMEDIATELY AFTER SOD PLACEMENT, SOD ESTABLISHMENT WILL BEGIN. IRRIGATION, MOWING, WEED CONTROL AND FERTILIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS DEFINED HEREIN. PROTECT SODDED AREA WITH SIGNS TO PREVENT TRAFFIC THROUGHOUT THE ESTABLISHMENT PERIOD. THE ESTABLISHMENT PERIOD SHALL HAVE A DURATION OF THIRTY (30) DAYS. C. IRRIGATION:
- 1. CONTRACTOR SHALL SUBMIT FOR APPROVAL A PROPOSED "SOD ESTABLISHMENT IRRIGATION SCHEDULE" TO THE OWNER'S REPRESENTATIVE. THIS SCHEDULE SHALL INCLUDE ZONE DESIGNATION, DAYS PER WEEK, CYCLES PER DAY AND CYCLE RUN TIME. INCLUDE TARGETED DAILY AND WEEKLY PRECIPITATION RATES FOR EACH ZONE BASED ON CURRENT CLIMATIC CONDITIONS.
- 2. WATER SHALL BE APPLIED TO MOISTEN THE SOIL TO APPROXIMATELY 2-INCH DEPTH BUT AVOID OVER-WATERING AND CREATING AREAS OF STANDING WATER OR UNDER WATERING AND CREATING AREAS OF DRY SOIL.
- 3. CONTRACTOR SHALL MONITOR IRRIGATION DAILY TO IDENTIFY AREAS RECEIVING TOO MUCH OR TOO LITTLE PRECIPITATION. 4. SLOPES SHALL BE MONITORED FOR EROSION AND CORRECTIVE ACTION TAKEN IMMEDIATELY.
- 5. ONCE THE SOD HAS BEEN MOWN THREE TIMES, APPROXIMATELY 4 WEEKS, THE FREQUENCY OF IRRIGATION SHALL BE REDUCED AND RUN TIMES INCREASED TO PROVIDE WATER DEEPER INTO THE SOIL. D. MOWING:
- MOWING SHALL BEGIN WHEN THE GRASS BLADES REACH A HEIGHT OF APPROXIMATELY 2.5-INCHES.
- 2. ALL CUTTING EQUIPMENT SHALL BE SHARP AND MOWERS SHALL BE ADJUSTED PRECISELY TO THE PROPER MOWING HEIGHT. 3. MOWING HEIGHTS DURING THE ESTABLISHMENT PERIOD SHALL BE 2.5-INCH TO 3 0-INCH
- 4. MOWING SHALL OCCUR EVERY 7 DAYS OR MORE OFTEN IF GROWTH DICTATES. AT NO POINT SHALL THE HEIGHT OF THE TURF GRASS BE MORE THAN 3.5-INCHES.
- GRASS CLIPPINGS SHALL BE COLLECTED AND REMOVED FROM THE SITE.
- 6. COORDINATE IRRIGATION SCHEDULE WITH MOWING SCHEDULE. AT NO TIME SHALL MOWING OCCUR IF SOIL IS WET AND RUTTING MAY OCCUR. WEED CONTROL: CONTROL GROWTH OF WEEDS THROUGHOUT ESTABLISHMENT PERIOD. UPON COMPLETION OF THE ESTABLISHMENT PERIOD THE TURF MAINTENANCE PERIOD SHALL BEGIN.
- TURF MAINTENANCE
- BE MOWN, WEEDED AND CULTIVATED AT INTERVALS OF NOT MORE THAN SEVEN (7) DAYS. WATERING, TRASH AND DEBRIS REMOVAL, MOWING, ROLLING, EDGING, TRIMMING, FERTILIZATION, SPRAYING AND PEST CONTROL, AS REQUIRED, SHALL BE INCLUDED IN THE MAINTENANCE PERIOD. CLEANING OF STREET GUTTERS AND SIDEWALKS SHALL BE INCLUDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION OF THE AREA. DAMAGED AREAS SHALL BE REPAIRED AT THE CONTRACTOR'S
- EXPENSE. THE CONTRACTOR SHALL RESEED ALL SPOTS OR AREAS WITHIN THE LAWN WHERE NORMAL TURF GROWTH IS NOT EVIDENT. THE TURF MAINTENANCE PERIOD SHALL HAVE A MINIMUM DURATION OF SIXTY (45) DAYS AND CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION. C. IRRIGATION:
- 1. CONTRACTOR SHALL SUBMIT FOR APPROVAL A PROPOSED "TURF MAINTENANCE IRRIGATION SCHEDULE". THIS SCHEDULE SHALL INCLUDE ZONE DESIGNATION, DAYS PER WEEK, CYCLES PER DAY AND CYCLE RUN TIME. INCLUDE TARGETED DAILY AND WEEKLY PRECIPITATION RATES FOR EACH ZONE BASED ON CURRENT CLIMATIC CONDITIONS.
- WATER SHALL BE APPLIED TO MOISTEN THE SOIL APPROPRIATELY FOR THE CURRENT, SEASONAL CLIMATIC CONDITIONS. AVOID OVER-WATERING AND CREATING AREAS OF STANDING WATER OR UNDER WATERING AND CREATING AREAS OF DRY SOIL.
- IRRIGATION SHALL BE MONITORED WEEKLY TO IDENTIFY AREAS RECEIVING TOO MUCH OR TOO LITTLE PRECIPITATION. 4. SLOPES SHALL BE MONITORED FOR EROSION AND CORRECTIVE ACTION TAKEN
- IMMEDIATELY. 5. COORDINATE AREAS WHERE IRRIGATION OVERLAPS SODDED AREAS TO ENSURE PROPER SOIL MOISTURE RATES EXIST.
- MOWING: MOWING SHALL OCCUR AT INTERVALS OF NOT MORE THAN SEVEN (7) DAYS OR MORE
- OFTEN IF GROWTH DICTATES. 2. ALL CUTTING EQUIPMENT SHALL BE SHARP AND MOWERS SHALL BE ADJUSTED PRECISELY TO THE PROPER MOWING HEIGHT.
- 3. MOWING HEIGHTS DURING THE MAINTENANCE PERIOD SHALL BE 2.5-INCH AT NO
- POINT SHALL THE HEIGHT OF THE TURF GRASS BE MORE THAN 3.5-INCHES. 4. GRASS CLIPPINGS SHALL BE COLLECTED AND REMOVED FROM THE SITE.
- 5. COORDINATE IRRIGATION SCHEDULE WITH MOWING SCHEDULE. AT NO TIME SHALL MOWING OCCUR IF SOIL IS WET AND RUTTING MAY OCCUR.
- 6. EDGES SHALL BE TRIMMED AS NEEDED FOR NEAT APPEARANCE.
- WEED CONTROL
- 1. CONTROL GROWTH OF WEEDS THROUGHOUT MAINTENANCE PERIOD. INSPECT TURF AREAS EVERY SEVEN (7) DAYS FOR WEED GROWTH. 2. UTILIZE 2,4-D BROADLEAF WEED KILLER TO CONTROL WEEDS IN ALL TURF AREAS. A. FERTILIZATION - TWO REQUIRED APPLICATIONS:
- 1. TURF MAINTENANCE FERTILIZER: SIMPLOT BEST TURF GOLD (22-5-6) SHALL BE APPLIED AT A RATE RECOMMENDED BY MANUFACTURER, FOLLOWING START OF TURF MAINTENANCE PERIOD.
- 2. PLANT MAINTENANCE FERTILIZER: APEX 21-5-6 SHALL BE APPLIED AT A RATE AND FREQUENCY RECOMMENDED BY THE MANUFACTURER FOLLOWING THE START OF THE PLANT MAINTENANCE PERIOD.
- B. CONTINUOUSLY MAINTAIN THE ENTIRE PROJECT AREA DURING THE PROGRESS OF WORK UNTIL THE DATE OF SUBSTANTIAL COMPLETION.

FIELD QUALITY CONTROL

- A. PERFORM FIELD INSPECTIONS UNDER PROVISIONS OF DIVISION 01 SPECIFICATIONS. B. COORDINATE FIELD INSPECTIONS WITH OWNER'S REPRESENTATIVE. C. CONTRACTOR PERFORMED INSPECTIONS: THE CONTRACTOR SHALL PERFORM THE FOLLOWING APPLICABLE INSPECTIONS AND PROVIDE WRITTEN CONFIRMATION OF COMPLETED AND SUCCESSFUL INSTALLATION TO THE ARCHITECT.
- 1. SOIL AMENDMENTS: PROVIDE REQUIRED PHOTOGRAPHIC DOCUMENTATION DEMONSTRATING SUCCESSFUL PLACEMENT AND TILLING OF SPECIFIED SOIL AMENDMENTS.
- 2. SOD TURF STARTER FERTILIZER: PROVIDE REQUIRED PHOTOGRAPHIC DOCUMENTATION DEMONSTRATING SUCCESSFUL PLACEMENT OF TURF STARTER FFRTII I7FR.
- 3. TURF MAINTENANCE MAINTENANCE FERTILIZER: PROVIDE REQUIRED PHOTOGRAPHIC DOCUMENTATION DEMONSTRATING SUCCESSFUL PLACEMENT OF TURF MAINTENANCE FFRTII I7FR.
- D. LANDSCAPE ARCHITECT PERFORMED INSPECTIONS: AMENDED & GRADED TOPSOIL: THE CONTRACTOR SHALL SCHEDULE ONE SITE VISIT WITH THE LANDSCAPE ARCHITECT TO INSPECT TOPSOIL PREPARATION PRIOR TO SOD INSTALLATION. ALL TOPSOIL PLACEMENT, SOIL AMENDMENTS PLACEMENT AND TILLING, COMPACTION/WATER SETTLING AND FINISH GRADING SHALL BE COMPLETED PRIOR TO REQUEST FOR INSPECTION. DO NOT PROCEED WITH SODDING OPERATIONS UNTIL PREPARED TOPSOIL HAS BEEN APPROVED.
- CLEANING
- A. AFTER ALL SODDING OPERATIONS HAVE BEEN COMPLETED; REMOVE ALL TRASH, EXCESS SOIL OR RUBBISH FROM THE PROPERTY. ALL SCARS, RUTS OR OTHER MARKS IN THE GROUND CAUSED BY THIS WORK SHALL BE REPAIRED AND THE GROUND LEFT IN A NEAT AND ORDERLY CONDITION THROUGHOUT THE SITE. CONTRACTOR SHALL PICK UP ALL TRASH RESULTING FROM THIS WORK NO LESS FREQUENTLY THAN EACH DAY BEFORE LEAVING THE SITE. ALL TRASH SHALL BE REMOVED COMPLETELY FROM THE SITE. THE CONTRACTOR SHALL LEAVE THE SITE AREA BROOM-CLEAN AND SHALL WASH DOWN ALL PAVED AREAS WITHIN THE CONTRACT AREA. LEAVING THE PREMISES IN A CLEAN CONDITION ACCEPTABLE TO THE ARCHITECT AND CONSTRUCTION MANAGER.

PROTECTION

A. PROTECT SODDED AREAS WITH WARNING SIGNS UNTIL DATE OF SUBSTANTIAL COMPLETION.



0 ati Ð 0 Ф 50 Ф 0 шО 5 ш7 Revisions



Landscape Details

L1.50



IRRIGATION SC	HEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI		DETAIL
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RAIN BIRD 1804-PRS (FOR TURF) ADJ TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	30		6/L2.50
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
2.0	RAIN BIRD 5004-PL-PC, FC-SAM-R 2.0 TURF ROTOR, 4.0" POP-UP WITH PLASTIC RISER. ADJUSTABLE AND FULL CIRCLE. STANDARD ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE. WITH SEAL-A-MATIC CHECK VALVE.	45	2.07	7/L2.50
4.0	RAIN BIRD 5004-PL-PC, FC-SAM-R 4.0 TURF ROTOR, 4.0" POP-UP WITH PLASTIC RISER. ADJUSTABLE AND FULL CIRCLE. STANDARD ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, AND FLOW SHUT-OFF DEVICE. WITH SEAL-A-MATIC CHECK VALVE.	45	4.01	7/L2.50
04	RAIN BIRD F4-PC, FC 04 TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE. WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1" FEMALE THREADED INLET.	50	3.7	7/L2.50
(08)	RAIN BIRD F4-PC, FC 08 TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE. WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1" FEMALE THREADED INLET.	50	7.4	7/L2.50
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION			DETAIL
•	RAIN BIRD PESB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.			8/L2.50
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.			5/L2.50
M	ISOLATION VALVE			3/L2.50
X	ISOLATION VALVE SUBMAINLINE MATCO-NORCA 514TX. 1-1/2" BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. CROSS HANDLE. INSTALL IN 12" ROUND VALVE BOX.			4/L2.50
Ø	DRAIN VALVE			3/L2.50
Ă	POINT OF CONNECTION POINT OF CONNECTION AT 6-IN PIRR STUB			
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 PIPE SHALL BE USED WITH DUCTILE IRON JOINT RESTRAIN FITTINGS BY LEEMCO FOR ALL PIPE SIZED 3" AND LARGER. ALL PIPE 2-1/2" AND BELOW SHALL BE CLASS 200 PVC WITH SOLVENT WELD SCH. 40 FITTINGS.			1/L2.50
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 VC CLASS 200 PIPE SHALL BE USED WITH DUCTILE IRON JOINT RESTRAIN FITTINGS BY LEEMCO FOR ALL PIPE SIZED 3" AND LARGER. ALL PIPE 2-1/2" AND BELOW SHALL BE CLASS 200 PVC WITH SOLVENT WELD SCH. 40 FITTINGS.			1/L2.50
	PIPE SLEEVE: PVC CLASS 200 SDR 21 PIPE SLEEVE SHALL BE TWICE THE SIZE OF DESIGNED PIPE DIAMETER FOR MAINLINE AND 4" FOR LATERAL LINES. INSTALL ADDITIONAL 2" SLEEVE AT ALL MAINLINE SLEEVES FOR CONTROL WIRES OR WHERE CONTROL WIRE LEAVES MAINLINE ROUTE.			2/L2.50
	Valve Callout			

Sheet Notes:

- A. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES
- BENOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING SINGLE SHALL BE CONTRACTOR'S RESPONSIBILITY.
 B. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
 C. SEE SHEET L2.50 FOR IRRIGATION DETAILS AND NOTES.

Keynotes:

I U NUMBERED NOTES BELOW.
 FIELD LOCATE 6-IN PRESSURE IRRIGATION MAIN LINE STUB AND IRRIGATION TWO-WIRE AT THIS LOCATION. CONNECT MAIN LINE WATER TIGHT AND SPLICE ONTO TWO-WIRE DOWNSTREAM PER PLANS. SEE IRRIGATION NOTES NOTE A ON SHEET L2.50.

♦ \ # ⊷

Valve Flow Valve Size

CALLOUT NUMBERS COORDINATED







		BENDS			REDUCERS			DEAD END		
FIFE JIZE	11°	22 °	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SER	
2"	1'	1'	2'	6'	-	-	-	19'	6	
2.5"	1'	2'	4'	9'	4'	-	-	23'	1(
3"	2'	3'	6'	11'	8'	10'	-	30'	15	
4"	2'	4'	9'	20'	14'	20'	31'	45'	25	
6"	3'	6'	13'	29'	30'	40'	53'	63'	40	
8"	4'	8'	15'	38'	33'	55'	63'	75'	70	
10"	5'	9'	19'	45'	36'	56'	75'	96'	90	
12"	5'	10'	21'	53'	38'	60'	83'	112'	11	

Irrigation Notes: A. REFER TO THE THE DISCOVERY PARK PHASE 2 PLAN SHEET DRAWINGS FOR MORE

- INFORMATION REGARDING APPROXIMATE IRRIGATION MAIN LINE AND WIRING LOCATION(S). B. SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 400 G.P.M.
- AND 80 P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
- D. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS. CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND
- SLEEVES UNDER HARD SURFACES WITH RESPECTIVE CONTRACTORS. F. ALL SLEEVES TO BE INSTALLED AS PART OF IRRIGATION CONTRACT. APPROXIMATE LOCATION OF SLEEVES ARE SHOWN ON THE IRRIGATION PLAN. FIELD VERIFY LOCATION. ALL ENDS OF SLEEVES TO BE TAPED OR CAPPED AND MARKED WITH A 2"X 4" PAINTED STAKE EXTENDING TO 24" ABOVE GRADE. STAKES ARE NOT TO BE REMOVED UNTIL THE IRRIGATION SYSTEM IS COMPLETE.
- ALL SLEEVES SHALL EXTEND A MINIMUM OF 18" BEYOND BACK OF CURB OR EDGE OF PAVEMENT. PROVIDE COMPACTED BACKFILL. G. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
- H. IRRIGATION CONTROLLER(S) ARE EXISTING AND SHALL BE RETAINED AND PROTECTED. COORDINATE IMPROVEMENTS SHOWN ON THESE PLANS WITH SAID CONTROLLER(S). ANY NEW WIRE SHALL MATCH EXISTING IN TYPE. IRRIGATED AREAS CONTAINING VEGETATION WHICH POTENTIALLY MAY IMPEDE PERFORMANCE OF A POP-UP SPRINKLER AND/OR ROTOR HEADS ARE TO BE
- REPLACED WITH A 12" HIGH POP-UP HEADS. J. ALL ELECTRICAL WORK TO MEET OR EXCEED N.E.C., STATE CODES, LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS. K. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT
- TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS. L. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- M. ALL 24 VOLT POWER WIRES SHALL BE #14 AWG COPPER. ALL ABOVE GROUND 120 VOLT AND 24 VOLT WIRE SHALL BE IN PVC CONDUIT. ALL 24 VOLT WIRES SHALL BE TAPED TOGETHER AT TEN FOOT (10'-0") INTERVALS. N. INSTALLATION SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL LAWS AND ORDINANCES.
- IRRIGATION CONTRACTOR SHALL PROVIDE AN AS-BUILT IRRIGATION PLAN UPON COMPLETION OF INSTALLATION AND PRIOR TO FINAL PAYMENT. P. THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND PERFECT IN
- EVERY DETAIL FOR A PERIOD OF ONE YEAR FROM THE DATE OF ITS ACCEPTANCE; REPAIR OR REPLACEMENT OF ANY DEFECTS OCCURRING WITHIN THAT YEAR SHALL BE FREE OF EXPENSE TO THE OWNER.
- Q. AS PART OF THIS CONTRACT, PERFORM AT NO EXTRA COST WINTERIZATION AND SPRING START UP OF THE SYSTEM DURING THE GUARANTEE PERIOD. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF THE QUALITY AND PERFORMANCE SPECIFIED, AND SHALL MEET THE REQUIREMENTS
- OF THIS SYSTEM. USE MATERIALS AS SPECIFIED, NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER. IRRIGATION CONTRACTOR SHALL MAKE NECESSARY MINOR FIELD ADJUSTMENTS TO SPRINKLER NOZZLES, SPRINKLERS, PIPE, AND OTHER IRRIGATION EQUIPMENT LOCATIONS TO FIT THE AS-BUILT SITE. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID DAMAGING EXISTING TREE ROOTS. ADJUSTMENTS SHALL
- ENSURE HEAD TO HEAD COVERAGE. IRRIGATION PIPING LAYOUT IS SCHEMATIC. WHERE LINES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL.
- T.A. IRRIGATION MAINLINE SHALL BE SLEEVED UNDER ALL HARDSCAPE. SLEEVING MAY NOT BE SHOWN FOR MAINLINE FOR GRAPHICAL PURPOSES. LOCATION OF EXISTING EQUIPMENT ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL BASE AND EXISTING IRRIGATION ELEMENTS AND CONDITIONS PRIOR TO CONSTRUCTION AND PROVIDE NECESSARY ADJUSTMENTS. V. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE
- ARCHITECT. W. CONTRACTOR SHALL SCHEDULE A MEETING WITH LANDSCAPE ARCHITECT AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION OF IRRIGATION CONTROL
- SYSTEM TO DETERMINE PROCEDURES OF INSTALLATION OF IRRIGATION CONTROL SYSTEM. PIPE VELOCITIES SHALL NOT EXCEED 5 FT/SEC. Y. AREAS WHERE FULL CIRCLE HEADS ARE REQUIRED, NON-REVERSING CIRCLE
- HEADS SHALL BE INSTALLED. PARTIAL CIRCLE HEADS WITH REVERSING DIRECTION ARE PROHIBITED FOR USE OF 360° ROTATION. Z. ALL MAIN LINE FITTINGS SHALL BE LEEMCO DUCTILE IRON PUSH ON TYPE AND ARE TO BE JOINED USING LEEMCO JOINT RESTRAINT SYSTEMS. INSTALL PER
- MANUFACTURERS RECOMMENDATIONS. AA. PROVIDE AND INSTALL GROUNDING ALONG THE TWO WIRE PATH PER MANUFACTURERS RECOMMENDATIONS.

Existing Irrigation Retention and Preservation:

- A. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING IRRIGATION MAINLINE, LATERALS AND ASSOCIATED COMPONENTS THAT ARE IN NEAR VICINITY OF CONSTRUCTION LIMITS. CONTRACTOR SHALL RETAIN AND PROTECT ALL
- EXISTING EQUIPMENT AND PIPING THROUGHOUT THE DURATION OF CONSTRUCTION.
- B. CONTRACTOR SHALL ENSURE 100% FUNCTIONALITY OF EXISTING SYSTEM DURING AND AFTER CONSTRUCTION. CONTRACTOR SHALL REPLACE/REPAIR ANY DAMAGED EXISTING PIPING
- AND/OR COMPONENTS AT NO COST TO OWNER.

Irrigation Execution:

<u> </u>	
A. RE	MOTE CONTROL VALVES:
A.A.	INSTALLED (1) REMOTE CONTROL VALVE PER VALVE BOX. ENSURE THAT
	ADEQUATE SPACE IS PROVIDED AROUND ENTIRE VALVE FOR EASE OF
	MAINTENANCE. ROUND VALVE BOXES ARE NOT PERMITTED.
A.B.	VALVE BOXES SHALL BE GREEN OR BLACK WITH GREEN LIDS.
B. IRI	RIGATION CONTROL WIRE:
B.A.	ALL WIRE SPLICES SHALL BE INSTALLED WITH A WATERPROOF WIRE
	CONNECTERS AND DBY/R CAP OR BLAZING NUT WIRE SPLICE CONNECTOR.
B.B.	ALL WIRE SPLICES SHALL BE LOCATED IN VALVE BOXES AND INDICATED ON
	AS-BUILT DRAWINGS. PROVIDE AS A MINIMUM, 36" OF EXTRA WIRE AT ALL
	WIRE SPLICES AND REMOTE CONTROL VALVE CONNECTIONS.
B.C.	CONTROL WIRE SHALL BE INSTALLED WITH PROPOSED MAINLINE. IF CONTROL
	WIRE LEAVES PIPING TRENCH, WIRE SHALL BE INSTALLED AT A MINIMUM
	DEPTH OF 12".
C. PI	PING (USE THE FOLLOW):

C. PIPIN	NG (USE THE FOLLOW):
C.A.	2-1/2" AND SMALLER SDR 21 SCH. 40 PVC, SOLVENT-CEMENT JOINTS:
C.B.	3" AND LARGER SDR 26 CLASS 200 RUBBER GASKETED PVC WITH DUCTILE
	IRON JOINT RESTRAINT SYSTEM, LEEMCO OR APPROVED EQUAL.
C.C.	TRENCHES SHALL BE PHOTO DOCUMENTED AND SUBMITTED ARCHITECT
	PRIOR TO BACKFILLING.
C.D.	BACKFILL TRENCHES CONSISTING OF SAND, FINE GRAVEL OR SELECT EARTH
	FREE OF LARGE LUMPS OR ROCKS LARGER THAN $\frac{3}{4}$ " Shall be used in and

AROUND INSTALLED PIPE.



ation Φ 6 Re 60 \mathbf{X} 4 7 Y 4 6 \geq 0 HAZ 836 U ш AN, 5 ШП 122129 Date of Issuance: 03.08.2023 Project Milestone: Construction Documents

> Irrigation Details & Notes

L2.50