(E) TANKS

(E) WOOD STEPPED SAND AND GRAVEL TRAIL. TO REMAIN

ACCESS ROAD

(E) PARK BUILDING

ENSURE SWALE IS FUNCTIONAL, OTHERWISE MODIFY AS NEEDED TO DIRECT CANOPY AND CONCRETE WALK DRAINAGE DOWN AND AWAY FROM ACCESS ROAD, WEST SIDE BUILDINGS AND ACTIVITY AREA.

(E)PARK ACTIVITIES AREA (NOT IN SCOPE)

(E) AGGRESSIVE SLOPE REGION (HEX HATCHED), TYP.

ARROWS INDICATE GENERAL DIRECTION OF STORM WATER DRAINAGE, TYP.

REF. S0 ORIENTATION AXIS OF SLAB
REF. S0 FOR ALL TOP OF CONC. WALK ELEVATIONS AND DIMENSIONS

CENTER LINE OF LONG DRAIN PIPE, TYP. REF. C2

REF. S1

(P) SWALE, SIM TO FRENCH DRAIN WITH STONE GRAVEL FILTER ON LONG DRAIN PVC PIPE TO PVC PIPE ELBOW TO PVC PIPE INSIDE CANOPY STEEL BASE TUBE. TYP. REF. C2 (ELBOW -CIRCLE, LINE HATCH - SWALE)

FIELD VERIFY (E) SWALE DIRECTS STORM WATER TO APPROVED LOCATION

CENTER LINE OF PIPE AND TUBE BELOW CONC. WALK, TYP. REF. C2

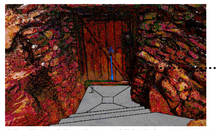
2 / C2

SWALE TO FORM FIT AGAINST HILLSIDE CUT

SWALE , REF. C2

VARIES

DATUM POINT, A.K.A. START POINT, MUST BE FIELD VERIFIED. OR APPROVED OTHER. CONTRACTOR TO VERIFY ALL ELEVATION MARKS ARE PRACTICAL AND WILL BE FOLLOWED PRIOR TO BID OR CONSTRUCTION. THIS ENGINEER NOR OWNER WILL BE RESPONSIBLE TO PAY EXTRA FOR CHANGE ORDER REQUESTS FOR SITE ELEVATIONS THAT WERE SUPPOSED TO HAVE BEEN VERIFIED PRIOR TO BID AND CONSTRUCTION.



CLOUD POINT IMAGE WITH ILLUSTRATION OF CONCRETE WALK. NOTE (E) CAVE ENTRY DOOR. POINT "A" POINTS TO TOP OF THRESHOLD DETERMINED TO BE THE BENCHMARK FOR CONSTRUCTION.

102'-0"
POINT A = DATUM POINT TOP (E) THRESHOLD REF. S0 FOR WALK AND CANOPY ELEVATIONS

NOTE IN SCOPE: HOWEVER, IT IS RECOMMENDED THAT FUTURE SWALE(S) BE INSTALLED FURTHER UP HILLSIDE TO REDUCE WATER SHED LOAD ON CANOPIES AND CONCRETE WALK. THESE ADDITIONAL SWALES WILL ALSO REDUCE EROSION.

TO APPROVED LOCATION

(E) WOOD STEPPED SAND AND GRAVEL TRAIL. TO REMAIN

CONC. TO SLOPE TOWARDS AREA DRAINS TO DRAIN BELOW CONC. PAD AS SHOWN.

(E) AGGRESSIVE SLOPE REGION (HEX HATCHED), TYP

CENTER LINE OF LONG 2 1/2" PERFORATED DRAIN PIPE, TYP. U.N.O. REF. C2

CONC. AREA DRAIN, REF.S4

4" DIA PVC DRAIN PIPE. METAL SLEEVE AT OUTLET

(P) SWALE, SIM TO FRENCH DRAIN WITH STONE GRAVEL FILTER ON LONG DRAIN PVC PIPE TO PVC PIPE ELBOW TO PVC PIPE THREADED IN CANOPY STEEL BASE TUBE. TYP. REF. C2(ELBOW -CIRCLE, LINE HATCH - SWALE)

TO APPROVED LOCATION

CONC. WALK, REF. S0 (GRAY TONE). WALK SLOPES SLIGHTLY, 1/4" PER FT DOWN AND AWAY TYP. ALL SURFACES

REF. S1

STEEL CANOPIES NOT SHOWN FOR CLARITY.

REF. STRUCT FOR LOCATION OF CANOPIES.

CANOPY BASE TUBE TO ASSIST WITH DRAINAGE. REF. C2

SITE PREP: BASE LEVEL TO BE EXCAVATED OR FILL UP TO WITH SAND GRAVEL MIX. COMPACT MIX FOR SMOOTH SURFACE OF PLACEMENT OF STEEL BAR REINFORCEMENT.

NOTE THAT PROPOSED LAYOUT HAS BEEN STRATEGICALLY SPECIFIED TO MATCH CLOSELY THE EXISTING TRAIL SLOPE TO REDUCE CUT AND FILL - FIELD VERIFY WITH SURVEY CREW PRIOR TO BID OR CONSTRUCTION. NOTE THAT FIELD DATA OBTAINED FOR USE FOR THE BASIS OF THIS DESIGN, IS FROM A POINT CLOUD SURVEY SO IT IS ANTICIPATED THAT THE PROPOSED LAYOUT IS OPTIMAL. THE POINT CLOUD FILE, MAY BE SHARED UPON REQUEST.

NOTE THAT THIS PROJECT IS UNUSUAL IN THAT THE STEEL CANOPY STRUCTURE AIDS IN THE STORM WATER PLAN AND THE CONCRETE WALK AIDS IN THE STRUCTURAL CAPACITY OF THE STEEL CANOPY. THEREFORE THESE DRAWINGS, IN THEIR ENTIRELY, MUST BE SHARED WITH ALL PARTIES INVOLVED AND STUDIED BY ALL PARTIES TO AVOID SCHEDULING ISSUES OR INCORRECT ERECTION SEQUENCES.

CALL 811 BEFORE EXCAVATING

3D ANNIMATION

EXISTING GRADE SHOWN IN ANNIMATION

1 / C1 SITE STORM WATER DRAINAGE PLAN
REF.

SCALE: 3/16"=1'-0"

N

DeUmbra Saeculum
THE ONLY 2 ARCHITECTS
IN THE UNIVERSE WHO
ARE NOT MARRIED
719.210.3013

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CASCADING CANOPIES OVER WALK

2850 CANON AVE, MANITOU SPRINGS, CO 80829

EDITION

HYPERLINKS

ATTACHMENTS

COLORADO LICENSED
PE.0049205
EXPIRE: 10/31/25
PROFESSIONAL ENGINEER

PROJECT:
DeUS 24-COM3

C1
SITE AND STORM WATER DRAINAGE PLAN