LIBERTY TREE ACADEMY - PHASE 2
CONSTRUCTION DOCUMENTS

TOWN OF PEYTON, EL PASO COUNTY
FINAL DESIGN
SEPTEMBER 2020

Know what's **below.** **Call** before you dig.

INDEX OF SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TS01	TITLE SHEET	1
GN01	GENERAL NOTES	2
LA01	LEGEND & ABBREVIATIONS	3
SP01	SITE PLAN	4
HC01	HORIZONTAL CONTROL PLAN	5
PP01	PARKING LOT PLAN & PROFILE	6
GR01	GRADING PLAN	7
SD01	STORM DRAIN PLAN & PROFILE	8
ECGN01	EROSION CONTROL GENERAL NOTES	9
EC01	INITIAL EROSION CONTROL PLAN	10
EC02	FINAL EROSION CONTROL PLAN	11
ECDT01-ECDT04	EROSION CONTROL DETAILS	12-15
ST01	SIGNING & STRIPING PLAN	16
DT01	DETAILS	17
LS01, LS02	LANDSCAPE PLAN & NOTES	18, 19

LAND USE SUMMARY

PARCEL AREA:	10.7 acres
PROJECT AREA (PHASE 1):	3.4 acres
PROJECT AREA (PHASE 2):	1.3 acres
BUILDING AREA (PHASE 1):	41,585 sf
BUILDING AREA (PHASE 2):	14,614 sf
FAR:	0.28

LOCATION MAP

SCALE: N.T.S.

VICINITY MAP

SCALE: N.T.S.

CIVIL ENGINEER

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
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DAVE_KLINE@MATRIXDESIGNGROUP.COM

LANDSCAPE ARCHITECT

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
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PH: 303-572-0200
FAX: 303-572-0202
CONTACT: TERESA ROBERSON
TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:

LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:

BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID BEARINGS OF THE COLORADO STATE PLANE CENTRAL ZONE, BASED ON THE EAST LINE OF LOT 1178 OF THE PLAT OF WOODMEN HILLS FILING NO. 10 AS RECORDED ON JULY 13, 2001 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 201098618, MONUMENTED ON THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 38160" AND ON THE SOUTH END BY A FOUND 1-1/2" ALUMINUM CAP STAMPED "PLS 32822", AND BEARS SOUTH 00°24'21" EAST A DISTANCE OF 1116.46 FEET.

BENCHMARK:

BENCHMARK IS DERIVED FROM AN ONLINE POSITIONING USER SERVICE PROVIDED BY THE NATIONAL GEODETIC SURVEY PERFORMED ON A SET #5 REBAR LOCATED ON THE EAST SIDE OF EASTONVILLE ROAD NEAR THE SOUTH PCR APPROXIMATELY 20 FEET SOUTH OF A SANITARY MANHOLE AND 12 FEET EAST OF A FIRE HYDRANT. THE ELEVATION DERIVED FROM THE STATIC SOLUTION IS 6960.52 U.S. SURVEY FEET (NAVD 88).

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

DAVID KLINE, P.E., PTOE — DATE: 9/1/2020

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LIBERTY TREE ACADEMY BUILDING CORPORATION — DATE: 9/22/2020

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR — DATE

FALCON FIRE DEPARTMENT:

ACCORDING TO THE MODELED CALCULATIONS REVIEWED BY THE GOVERNING WATER DISTRICT AND/OR COLORADO REGISTERED CIVIL ENGINEER/DESIGNER; THE THEORETICAL AVAILABLE FIRE FLOW AT NODE _____ IS _____ GALLONS PER MINUTE UNDER MAXIMUM DAILY DEMAND CONDITIONS AT 20PSI RESIDUAL. THE ACTUAL FIRE FLOW MAY VARY DUE TO VARIOUS PARAMETERS.

UPON DETAILED REVIEW OF THE AVAILABLE WATER SUPPLY, FIRE HYDRANT LOCATIONS AND HOSE LAY DISTANCES, THESE PLANS ARE HEREBY CONSIDERED APPROVED.

FIRE DEPARTMENT SIGNATURE — DATE

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT
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SHEET KEY

PREPARED FOR: LIBERTY TREE ACADEMY
PREPARED BY: Matrix — Excellence by Design

SEAL: COLORADO REGISTERED PROFESSIONAL ENGINEER 24520 9/1/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

DESIGNED BY: ACR
DRAWN BY: ACR
CHECKED BY: DRK
SCALE: HORIZ. NA; VERT. NA
DATE ISSUED: SEPTEMBER 2020
SHEET 1 OF 19
DRAWING No. TS01

LIBERTY TREE ACADEMY - PHASE 2
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

TITLE SHEET

Know what's **below.**
Call before you dig.

GENERAL CONSTRUCTION PLAN NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
   d. CDOT M & S STANDARDS

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW (DEPARTMENT OF PUBLIC WORKS) AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW (DEPARTMENT OF PUBLIC WORKS), INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL
COLORADO REGISTERED PROFESSIONAL ENGINEER
24520
9/18/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

GENERAL NOTES

DESIGNED BY: ACR	SCALE		DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. NA			
CHECKED BY: DRK	VERT. NA		SHEET 2 OF 19	GN01

ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
APPROX	APPROXIMATE OR APPROXIMATELY
AVE	AVENUE
BOC	BACK OF CURB
℄ OR B/L	BASELINE
BLVD	BOULEVARD
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
BVCS	BEGINNING OF VERTICAL CURVE STATION
C&G	CURB AND GUTTER
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
CEN	CENTER
℄ OR C/L	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA OR Ø	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
EGL	ENERGY GRADE LINE
ELEV OR EL	ELEVATION
ELL	ELBOW
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVCE	END OF VERTICAL CURVE ELEVATION
EVCS	END OF VERTICAL CURVE STATION
EW	EACH WAY
EX. OR EXIST	EXISTING
FES	FLARED END SECTION
FIN	FINISHED
℄ OR F/L	FLOWLINE
FLG	FLANGE
FT	FOOT/FEET
FRP	FIBERGLASS REINFORCED PIPE
FUT	FUTURE
GAL	GALLON
GALV	GALVANIZED
GAU	GAUGE (MATERIAL)
GV	GATE VALVE
GW	GROUNDWATER
HBP	HOT BITUMINOUS PAVEMENT
HCL	HORIZONTAL CONTROL LINE
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
HORIZ	HORIZONTAL
HCL	HORIZONTAL CONTROL LINE
HR	HOUR
INV	INVERT
K	VERTICAL CURVE FACTOR
LBS	POUNDS
LF	LINEAR FEET
LP	LOW POINT
LS	LANDSCAPING
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
MFGR	MANUFACTURER
MH	MANHOLE
MID	MIDDLE OR MIDPOINT
MIN	MINIMUM
MJ	MECHANICAL JOINT
MSL	MEAN SEA LEVEL
NIC	NOT IN CONTRACT
NO OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
PR OR PROP	PROPOSED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCR	POINT OF CURB RETURN
PE	PLAIN END
PGL	PROFILE GRADE LINE
℘ OR P/L	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE OR POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
R OR RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
SCH	SCHEDULE
SD OR STM	STORM SEWER
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SS OR SAN	SANITARY SEWER
SWK	SIDEWALK
TAN	TANGENT
TB	THRUST BLOCK
THD	THREADED
THK	THICKNESS
TL	TRUE LENGTH
TS	TRUE SLOPE
TYP	TYPICAL
UG	UNDERGROUND
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
W	WIDTH
w/	WITH

PROPOSED LEGEND

- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY
- PROPOSED EASEMENT
- 6400 — PROPOSED CONTOUR
- ENERGY GRADE LINE
- HYDRAULIC GRADE LINE
- 2.0% — PROPOSED SLOPE OR DRAINAGE FLOW
- PSD 18 — PROPOSED STORM DRAIN AND F.E.S.
- PROPOSED STORM INLET
- PROPOSED SIGN
- PROPOSED LIGHT STANDARD
- PROPOSED CURB & GUTTER
- PROPOSED FENCE

Know what's **below.** **Call** before you dig.

EXISTING LEGEND

- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY
- EXISTING LOT LINE
- EXISTING EASEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING CURB AND GUTTER
- EXISTING CONCRETE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING WATERLINE HYDRANT AND PLUG
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN AND F.E.S.
- EXISTING ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING FIBER LINE
- EXISTING TELEPHONE LINE
- EXISTING DRAINAGE
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING MANHOLE
- EXISTING POWER POLE
- EXISTING POWER POLE W/GUY WIRE
- EXISTING GATE VALVE
- EXISTING STORM INLET
- EXISTING SIGN
- 29.5 — EXISTING DECIDUOUS TREE
- 24.0 — EXISTING CONIFEROUS TREE
- EXISTING LIGHT STANDARD

MATERIALS LEGEND

- CONCRETE
- RECOMPACTED SUBGRADE
- HOT BITUMINOUS PAVEMENT (ASPHALT)

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY
PREPARED BY:
Matrix
Excellence by Design

SEAL
ALAN D. KNIGHT REGISTERED 24520 PROFESSIONAL ENGINEER 9/11/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

LEGEND & ABBREVIATIONS

DESIGNED BY: ACR	SCALE		DATE ISSUED: SEPTEMBER 2020	DRAWING No.	
DRAWN BY: ACR	HORIZ. NA		SHEET 3 OF 19	LA01	
CHECKED BY: DRK	VERT. NA				

CONSTRUCTION KEY NOTES:

1. REMOVE CURB AND GUTTER (SAW CUT VERTICAL EDGE)
2. RELOCATE COMMUNICATIONS VAULT
3. SUBGRADE PREPARATION (SEE GEOTECHNICAL REPORT)
4. CONSTRUCT ASPHALT PAVEMENT (5 INCH) (SEE GEOTECHNICAL REPORT)
5. CONSTRUCT AGGREGATE BASE COURSE (8 INCH) (SEE GEOTECHNICAL REPORT)
6A. CONSTRUCT CURB AND GUTTER (2 FOOT CATCH GUTTER)
6B. CONSTRUCT CURB AND GUTTER (1 FOOT SPILL GUTTER)
7. CONSTRUCT CONCRETE SIDEWALK (4 INCH)
8. CONSTRUCT PEDESTRIAN RAMP (EL PASO COUNTY STANDARD DETAIL SD_2-40)
9. CONSTRUCT CROSS PAN
10. CONSTRUCT TWIN CURB HEADS (2 FOOT SEPARATION)
11. CONSTRUCT LIGHT POLE (SEE BUILDING PLANS)
12. INSTALL STOP SIGN (30" x 30")
13. INSTALL 4 INCH WHITE SOLID PAVEMENT MARKING
14. INSTALL 4 INCH WHITE DASHED PAVEMENT MARKING
15. INSTALL 8 INCH WHITE SOLID PAVEMENT MARKING
16. INSTALL 4 INCH DOUBLE YELLOW SOLID PAVEMENT MARKING
17. REMOVE EXISTING PAVEMENT MARKING
18. INSTALL WHITE LEFT TURN ARROW MARKING
19. INSTALL ACCESSIBLE PARKING SIGN
20. CONSTRUCT BIKE RACK (SEE BUILDING PLANS)
21. REMOVE AND RELOCATE EXISTING TREE(S) AND/OR SHRUB(S) (SYMBOL NOT SHOWN)
22. IRRIGATION SYSTEM (DESIGN/BUILD)
23. REALIGNMENT OF EXISTING WHMD TRAIL
24. INSTALL DRAINAGE CHASE FLOOR PLATE (EL PASO COUNTY STANDARD DETAIL SD_3-25 & 25A)

(#) PARKING COUNT

NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP

No.	DATE	DESCRIPTION	BY

REVISIONS

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

SITE PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 4 OF 19	SP01
CHECKED BY: DRK	VERT. NA		

Line Table		
Line #	Length	Direction
L1	64.01'	S 70°13'56" E
L2	2.00'	N 19°46'04" E
L3	7.40'	N 70°13'56" W
L4	77.24'	N 19°46'04" E
L5	9.50'	N 70°13'56" W
L6	9.61'	N 68°42'48" W
L7	9.63'	N 65°30'54" W
L8	9.63'	N 61°53'12" W
L9	9.63'	N 58°56'04" W
L10	9.63'	N 55°18'22" W
L11	9.00'	N 35°58'35" E
L12	9.50'	N 54°01'25" W
L13	9.50'	N 54°01'25" W
L14	146.91'	N 35°58'35" E
L15	11.00'	S 54°01'25" E
L16	24.28'	N 35°58'35" E
L17	40.58'	N 35°58'35" E
L18	11.00'	N 54°01'25" W
L19	119.91'	N 35°58'35" E
L20	9.50'	N 54°01'25" W
L21	9.00'	N 35°58'35" E
L22	9.50'	N 54°01'25" W
L23	9.52'	S 57°10'59" E
L24	9.52'	S 57°03'27" E
L25	9.52'	S 63°45'49" E
L26	9.52'	S 63°38'17" E
L27	10.99'	S 69°58'55" E
L28	20.65'	N 19°46'04" E
L29	5.97'	N 70°13'56" W
L30	5.24'	N 19°46'04" E

Curve Table					
Curve	Length	Radius	Delta	Chord Bearing	Chord
C1	31.39'	20.00'	89°56'15"	S 25°15'48" E	28.27'
C2	13.51'	8.60'	90°00'00"	S 25°13'56" E	12.16'
C3	4.02'	920.00'	0°15'01"	N 19°53'34" E	4.02'
C4	14.02'	4.50'	178°28'58"	S 20°31'39" W	9.00'
C5	9.61'	920.00'	0°35'54"	N 26°17'57" E	9.61'
C6	13.85'	4.50'	176°22'18"	S 26°17'57" W	9.00'
C7	260.83'	922.00'	16°12'31"	N 27°52'19" E	259.96'
C8	9.61'	920.00'	0°35'54"	N 32°52'47" E	9.61'
C9	13.85'	4.50'	176°22'22"	S 32°52'47" W	9.00'
C10	14.14'	4.50'	180°00'01"	S 35°58'34" W	9.00'
C11	7.85'	5.00'	90°00'00"	S 80°58'35" W	7.07'
C12	19.05'	30.00'	36°22'56"	S 17°47'07" W	18.73'
C13	3.70'	2.00'	105°57'35"	N 88°57'22" E	3.19'
C14	7.85'	5.00'	90°00'00"	N 9°01'25" W	7.07'
C15	14.14'	4.50'	180°00'03"	N 35°58'37" E	9.00'
C16	9.02'	864.00'	0°35'54"	N 32°52'47" E	9.02'
C17	14.13'	4.50'	179°52'28"	N 32°52'47" E	9.00'
C18	240.09'	862.00'	15°57'30"	N 27°59'50" E	239.31'
C19	9.02'	864.00'	0°35'54"	N 26°17'57" E	9.02'
C20	14.13'	4.50'	179°52'31"	N 26°17'59" E	9.00'
C21	7.88'	5.00'	90°15'01"	N 64°53'34" E	7.09'
C22	47.12'	30.00'	90°00'00"	N 25°13'56" W	42.43'
C23	31.41'	20.00'	89°58'38"	S 64°46'45" W	28.28'

NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP

No.	DATE	DESCRIPTION	BY

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

HORIZONTAL CONTROL PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 5 OF 19	HC01
CHECKED BY: DRK	VERT. NA		

REFERENCE DRAWINGS
X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP

No.	DATE	DESCRIPTION	BY

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

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SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

PARKING LOT PLAN & PROFILE

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 6 OF 19	PP01
CHECKED BY: DRK	VERT. 1" = 5'		

NOTE:

1. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
2. ALL LABELED SPOT ELEVATIONS ARE FLOWLINE UNLESS NOTED OTHERWISE.

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP

No.	DATE	DESCRIPTION	BY
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

GRADING PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'		
CHECKED BY: DRK	VERT. NA	SHEET 7 OF 19	GR01

TRICKLE CHANNEL SECTION (A)

REFERENCE DRAWINGS
X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP
X-995.002-PR-UTIL_PH-2

No.	DATE	DESCRIPTION	BY

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

STORM DRAIN PLAN & PROFILE

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 20'	SHEET 8 OF 19	SD01
CHECKED BY: DRK	VERT. 1" = 5'		

Know what's **below.** **Call** before you dig.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.

3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

4. ONCE THE ESQCP IS APPROVED AND A “NOTICE TO PROCEED” HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.

5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.

6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.

7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.

9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.

11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).

12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.

13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.

14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.

15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.

23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.

24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE “COLORADO WATER QUALITY CONTROL ACT” (TITLE 25, ARTICLE 8, CRS), AND THE “CLEAN WATER ACT” (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY EARTH ENGINEERING CONSULTANTS, LLC ON APRIL 12, 2018, AND SHALL BE CONSIDERED A PART OF THESE PLANS.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

    COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
    WATER QUALITY CONTROL DIVISION
    WQCD - PERMITS
    4300 CHERRY CREEK DRIVE SOUTH
    DENVER, CO 80246-1530
    ATTN: PERMITS UNIT

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

EROSION CONTROL GENERAL NOTES

DESIGNED BY: ACR	SCALE		DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. NA			
CHECKED BY: DRK	VERT. NA		SHEET 9 OF 19	ECGN01

NOTES:

1. SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
2. SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
3. SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
4. INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.
5. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
6. NO ASPHALT/CONCRETE BATCH PLANT TO BE PLACED ON SITE.
7. NO SPRINGS, STREAMS OR WET LANDS ON SITE.
8. EXISTING GROUND COVER CONSITIS OF NATIVE GRASSES AND WEEDS AND IS ESTIMATED AT 85%.

BMP LEGEND

CWA	CONCRETE WASHOUT AREA
DD	DIVERSION DITCH
ECB	EROSION CONTROL BLANKET
SCL	SEDIMENT CONTROL LOG
SM	SEEDING AND MULCHING
SF	SILT FENCE
SSA	STABILIZED STAGING AREA
SR	SURFACE ROUGHING
VTC	VEHICLE TRACKING CONTROL
RS	ROCK SOCK
CF	CONSTRUCTION FENCE
LOC	LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE
LOC	STOCKPILE
	EXISTING STORM FLOW
	EXISTING 1' CONTOURS
	EXISTING 5' CONTOURS
	PROPOSED 1' CONTOURS
	PROPOSED 5' CONTOURS

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL
REGISTERED PROFESSIONAL ENGINEER
ANTHONY C. RIGGS
34520
9/11/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

INITIAL EROSION CONTROL PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 10 OF 19	EC01
CHECKED BY: DRK	VERT. NA		

NOTES:

1. SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
2. SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
3. SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
4. INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.
5. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

BMP LEGEND

CWA	CONCRETE WASHOUT AREA
DD	DIVERSION DITCH
ECB	EROSION CONTROL BLANKET
SCL	SEDIMENT CONTROL LOG
SM	SEEDING AND MULCHING
SF	SILT FENCE
SSA	STABILIZED STAGING AREA
SR	SURFACE ROUGHING
VTC	VEHICLE TRACKING CONTROL
RS	ROCK SOCK
CF	CONSTRUCTION FENCE
LOC	LIMITS OF CONSTRUCTION
IP	INLET PROTECTION
	EXISTING 1' CONTOURS
	EXISTING 5' CONTOURS
	PROPOSED 1' CONTOURS
	PROPOSED 5' CONTOURS

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL
COLORADO REGISTERED PROFESSIONAL ENGINEER
24520
9/18/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

FINAL EROSION CONTROL PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'		
CHECKED BY: DRK	VERT. NA	SHEET 11 OF 19	EC02

Vehicle Tracking Control (VTC) SM-4

VTC–1. AGGREGATE VEHICLE TRACKING CONTROL

SM-4 Vehicle Tracking Control (VTC)

VTC–2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

Vehicle Tracking Control (VTC) SM-4

VTC–3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

SM-4 Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
   –TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT–OF–WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON–WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

Earth Dikes and Drainage Swales (ED/DS) EC-10

ED–1. COMPACTED UNLINED EARTH DIKE FORMED BY BERM

DS–1. COMPACTED UNLINED EXCAVATED SWALE

DS–2. COMPACTED UNLINED SWALE FORMED BY CUT AND FILL

DS–3. ECB LINED SWALE (CUT AND FILL OR BERM)

EC-10 Earth Dikes and Drainage Swales (ED/DS)

DS–4. SYNTHETIC LINED SWALE

DS–5. RIPRAP LINED SWALE

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

1. SEE SITE PLAN FOR:
   – LOCATION OF DIVERSION SWALE
   – TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED).
   – LENGTH OF EACH SWALE.
   – DEPTH, D, AND WIDTH, W DIMENSIONS.
   – FOR ECB/TRM LINED DITCH, SEE ECB DETAIL.
   – FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, D50.

2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2–YEAR FLOW RATE OR 10 CFS.

3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND–DISTURBING ACTIVITIES IN PROXIMITY.

4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.

5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.

6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.

7. WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

Earth Dikes and Drainage Swales (ED/DS) EC-10

EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION; IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE.

5. WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRINGS, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Mulching (MU) EC-4

Description

Photograph MU-1. An area that was recently seeded, mulched, and crimped.

Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures. Mulching helps reduce erosion by protecting bare soil from rainfall impact, increasing infiltration, and reducing runoff. Although often applied in conjunction with temporary or permanent seeding, it can also be used for temporary stabilization of areas that cannot be reseeded due to seasonal constraints.

Mulch can be applied either using standard mechanical dry application methods or using hydromulching equipment that hydraulically applies a slurry of water, wood fiber mulch, and often a tackifier.

Appropriate Uses

Use mulch in conjunction with seeding to help protect the seedbed and stabilize the soil. Mulch can also be used as a temporary cover on low to mild slopes to help temporarily stabilize disturbed areas where growing season constraints prevent effective reseeding. Disturbed areas should be properly mulched and tacked, or seeded, mulched and tacked promptly after final grade is reached (typically within no longer than 14 days) on portions of the site not otherwise permanently stabilized.

Standard dry mulching is encouraged in most jurisdictions; however, hydromulching may not be allowed in certain jurisdictions or may not be allowed near waterways.

Do not apply mulch during windy conditions.

Design and Installation

Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking. Track walking should only be used where other methods are impractical because track walking with heavy equipment typically compacts the soil.

A variety of mulches can be used effectively at construction sites. Consider the following:

Mulch	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material Management	No

Know what's below. Call before you dig.

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT
FILE NAME: R:\20.995.002 (Liberty Tree Academy Additional Svcs)\Dwg\Sheets\CDs\ECDT_PH2.dwg
CTB FILE: ----
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE		DATE ISSUED:	SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ.	NA	SHEET	12 OF 19	ECDT01
CHECKED BY: DRK	VERT.	NA			

EC-4 Mulching (MU)

- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.
- Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to dry; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.
- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

Maintenance and Removal

After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.

SC-5 Rock Sock (RS)

ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 1½" (MINUS) CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH SECURED TO ENDS OF ROCK REINFORCED SOCK, AS AN ALTERNATIVE TO FILLING JOINTS BETWEEN ADJOINING ROCK SOCKS WITH CRUSHED ROCK AND ADDITIONAL WIRE WRAPPING, ROCK SOCKS CAN BE OVERLAPPED (TYPICALLY 12–INCH OVERLAP) TO AVOID GAPS.

GRADATION TABLE

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
	NO. 4
2"	100
1½"	90 – 100
1"	20 – 55
¾"	0 – 15
⅜"	0 – 5
MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE. ALL SIDES.	

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1½" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF ½". RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS–1. ROCK SOCK PERIMETER CONTROL

Rock Sock (RS) SC-5

ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE ROCK SOCK.

6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SC-8 Sediment Trap (ST)

ST–1. SEDIMENT TRAP

Sediment Basin (SB) SC-7

SC-7 Sediment Basin (SB)

TABLE SB–1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 ½	2	9/32
2	21	3	11/64
3	28	5	¼
4	33 ½	6	9/64
5	38 ½	8	7/32
6	43	9	5/32
7	47 ¼	11	29/32
8	51	12	7/32
9	55	13	⅜
10	58 ¼	15	11/32
11	61	16	5/32
12	64	18	½
13	67 ½	19	1 1/16
14	70 ½	21	1 ⅜
15	73 ¼	22	1 9/16

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION OF SEDIMENT BASIN.
   –TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
   –FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
   –FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND–DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.

6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Sediment Trap (ST) SC-8

SEDIMENT TRAP INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
2. ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
3. SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND–DISTURBING ACTIVITIES.
4. SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
5. SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50=12") TYP.SMALLER ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.
6. THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.
7. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

SEDIMENT TRAP MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN THE SEDIMENT DEPTH REACHES ⅓ THE HEIGHT OF THE RIPRAP OUTLET.
5. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
6. WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Know what's below. Call before you dig.

REFERENCE DRAWINGS
X-995.002-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE		DATE ISSUED:	SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ.	NA			
CHECKED BY: DRK	VERT.	NA	SHEET	13 OF 19	ECDT02

Sediment Control Log (SCL) SC-2

SEDIMENT CONTROL LOG

SECTION A

SEDIMENT CONTROL LOG JOINTS

SCL-1. SEDIMENT CONTROL LOG

SC-2 Sediment Control Log (SCL)

SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB

SCL-3. SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN

SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

Sediment Control Log (SCL) SC-2

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.

2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.

3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.

4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE WAYS.

5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY ⅓ OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING

6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER.

7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.

5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Concrete Washout Area (CWA) MM-1

CONCRETE WASHOUT AREA PLAN

SECTION A

CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
--CWA INSTALLATION LOCATION.

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD).

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Silt Fence (SF) SC-1

SILT FENCE

SECTION A

SF-1. SILT FENCE

SC-1 Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.

6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.

7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTES:

ACCORDING TO NRCS SOILS SURVEY, THE 19--COLUMBINE GRAVELLY SANDY LOAM, 0 TO 3 PERCENT SLOPES IS SOMEWHAT POOR FOR SHALLOW EXCAVATIONS DUE TO UNSTABLE EXCAVATION WALLS. DUE TO THE LIMITATIONS ON THE ABOVE SOIL ON THE SITE, ALTERNATIVES TO MITIGATE THE LIMITATIONS OF THE SOIL WILL BE REQUIRED IN YOUR ENGINEERING DESIGN OR CONSTRUCTION TECHNIQUES.

THERE IS NO INTEGRATED NOXIOUS WEED CONTROL PLAN AND IT IS RECOMMENDED THAT AN INTEGRATED WEED MANAGEMENT PROGRAM BE REVIEWED AND APPROVED BY THE EL PASO COUNTY WEED INSPECTOR AND/OR WEED ADVISORY BOARD, THE COUNTY EXTENSION AGENT, NRCS, OR A QUALIFIED WEED MANAGEMENT PROFESSIONAL PRIOR TO THE LAND USE AUTHORITY APPROVAL.

TOPSOIL SHOULD BE STRIPPED TO A DEPTH OF 6 INCHES AND ALL STOCKPILES SHOULD HAVE SIDE SLOPES NO STEEPER THAN 3:1 AND SEEDED. ALL DISTURBED AREAS SHOULD BE SEEDED AND MULCHED WITH WEED FREE HAY MULCH AT 4,000 LBS. /ACRE. ALL DISTURBED AREAS SHOULD BE RESEEDED BETWEEN THE PLANTING DATES OF NOV. 1-APRIL 30TH. GRASS SEED SHOULD BE DRILLED AT A DEPTH OF ¼ TO ½ INCH DEEP AND IF BROADCASTED, DOUBLE THE RATE. PLEASE FEEL FREE TO UTILIZE THE ATTACHED NATIVE SHOTGUN MIX THAT WILL WORK BEST ON YOUR GRAVELLY FOOTHILL RANGE SITE.

VEHICLE TRACKING CONTROL STATIONS NEED TO BE INSTALLED AT ALL ENTRANCE AND EXIT POINTS ON THE SITE. THE STATION SHOULD CONSIST OF A PAD OF 3 TO 6-INCH ROCK OR A VEHICLE CONTROL PAD/MAT TO STRIP MUD FROM TIRES PRIOR TO VEHICLES LEAVING THE CONSTRUCTION SITE TO PREVENT SPREADING OF NOXIOUS WEEDS.

SILT FENCES OR OTHER FORMS OF EROSION BARRIERS NEED TO BE PLANNED AND INSTALLED AS A TEMPORARY SEDIMENT CONTROL DEVICE USED ON CONSTRUCTION SITES TO PROTECT WATER QUALITY.

THE EL PASO COUNTY CD BOARD STRONGLY RECOMMENDS THAT LOW IMPACT DEVELOPMENT (LID) TECHNIQUES BE IMPLEMENTED FOR ECONOMIC AND CONSERVATION BENEFITS.

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REFERENCE DRAWINGS
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix Excellence by Design

SEAL
REGISTERED PROFESSIONAL ENGINEER 24520 9/11/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE		DATE ISSUED: SEPTEMBER 2020	DRAWING No.	
DRAWN BY: ACR	HORIZ. NA		SHEET 14 OF 19	ECDT03	
CHECKED BY: DRK	VERT. NA				

Stockpile Management (SP) MM-2

STOCKPILE PROTECTION PLAN

SECTION A

SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION OF STOCKPILES.
   - TYPE OF STOCKPILE PROTECTION.

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS. HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

MM-2 Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Stockpile Management (SP) MM-2

SP-2. MATERIALS STAGING IN ROADWAY

MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   - LOCATION OF MATERIAL STAGING AREA(S).
   - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.

3. MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.

4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.

5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.

6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.

7. THIS FEATURE CAN BE USED FOR:
   - UTILITY REPAIRS.
   - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
   - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

MM-2 Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.

5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO)

Surface Roughening (SR) EC-1

SR-1. SURFACE ROUGHENING
FOR STEEP SLOPES (3:1 OR STEEPER)

SR-2. SURFACE ROUGHENING
FOR LOW SLOPES (LESS THAN 3:1)

EC-1 Surface Roughening (SR)

SURFACE ROUGHENING INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION(S) OF SURFACE ROUGHENING.

2. SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.

3. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.

4. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.

5. A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE ROUGHENED.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.

4. VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.

5. IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.

6. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Stabilized Staging Area (SSA) SM-6

SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   - LOCATION OF STAGING AREA(S).
   - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix
Excellence by Design

SEAL

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE		DATE ISSUED:	SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ.	NA	SHEET	15 OF 19	ECDT04
CHECKED BY: DRK	VERT.	NA			

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SIGNING & STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP

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SHEET KEY

PREPARED FOR: LIBERTY TREE ACADEMY

PREPARED BY: Matrix Excellence by Design

SEAL

COLORADO REGISTERED PROFESSIONAL ENGINEER 24520 9/11/2020

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

SIGNING & STRIPING PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: SEPTEMBER 2020	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 30'		
CHECKED BY: DRK	VERT. NA	SHEET 16 OF 19	ST01

Know what's below. Call before you dig.

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Typical Curb and Gutter Details Standard Drawing	REVISION DATE: 12/8/15 FILE NAME: SD_2–20

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Typical Cross Pan Layout Detail Standard Drawing	REVISION DATE: 12/8/15 FILE NAME: SD_2–26

DATE APPROVED: 9/16/10 André P. Brackin DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Detail Standard Drawing	REVISION DATE: 11/10/04 FILE NAME: SD_2–40

7/9/09 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Standard Drawing	REVISION DATE: 12/8/15 FILE NAME: SD_2–41

1/1/08 DATE APPROVED: John A. McCarty DEPARTMENT OF TRANSPORTATION	Truncated Dome Details Standard Drawing	REVISION DATE: 11/25/15 FILE NAME: SD_2–42

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Curb Opening with Drainage Chase Detail 1 of 2 Standard Drawing	REVISION DATE: 12/8/15 FILE NAME: SD_3–25

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Curb Opening with Drainage Chase Detail 2 of 2 Standard Drawing	REVISION DATE: 11/10/04 FILE NAME: SD_3–25A

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Desilting Basin Outlet Standard Drawing	REVISION DATE: 11/10/04 FILE NAME: SD_3–30

REFERENCE DRAWINGS
X-995.002-MDG22x34
Ch 9 Hydraulic Structures

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT
FILE NAME: R:\20.995.002 (Liberty Tree Academy Additional Svcs)\Dwg\Sheets\CDs\DT01_PH2.dwg
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LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

DETAILS

DESIGNED BY: ACR	SCALE		DATE ISSUED: SEPTEMBER 2020	DRAWING No.
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CHECKED BY: DRK	VERT. NA		SHEET 17 OF 19	DT01

LANDSCAPE LEGEND

- DECIDUOUS SHADE TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- DECIDUOUS SHRUBS, 5 GAL.
- STEEL LANDSCAPE EDGER
- 3" DEPTH RIVER GRAVEL MULCH OVER WEED BARRIER FABRIC
- NATIVE GRASS SEEDING
- PROJECT LIMIT OF WORK

PHASE 2 PLANT LEGEND

	SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
DECIDUOUS SHADE TREES						
	GSL	8	GREENSPIRE LINDEN	TILIA CORDATA 'GREENSPIRE'	1.5" CAL.	B&B
	WH	6	WESTERN HACKBERRY	CELTIS OCCIDENTALIS	1.5" CAL.	B&B
	SUBTOTAL	*14*				
EVERGREEN TREES						
	BP	14	BOSNIAN PINE	PINUS HELDREICHII	6' HT.	B&B
	SUBTOTAL	*14*				
ORNAMENTAL TREES						
	RC	4	RADIANT CRABAPPLE	MALUS 'RADIANT'	1" CAL.	B&B
	SSC	3	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	1" CAL.	B&B
	SUBTOTAL	*7*				
DECIDUOUS SHRUBS						
	AWS	28	ANTHONY WATERER SPIREA	SPIRAEA BUMALDA 'ANTHONY WATERER'	5 GAL.	4' O.C. SPACING
	DKL	11	DWARF KOREAN LILAC	SYRINGA MEYERI	5 GAL.	4' O.C. SPACING
	JP	11	JACKMAN POTENTILLA	POTENTILLA FRUTICOSA 'JACKMANII'	5 GAL.	4' O.C. SPACING
	SC	36	SPREADING COTONEASTER	COTONEASTER DIVARICATA	5 GAL.	5' O.C. SPACING
	SUBTOTAL	*86*				

PARCEL AREA CALCULATION (ACRE / SF)

PARCEL AREA	ENCUMBERED DRAINAGE CHANNEL	ENCUMBERED DETENTION POND	TREE LAWN	NET REDUCED AREA
10.42 / 454,180	5.91 / 257,280	0.27 / 11,930	0.32 / 14,080	3.92 /170,890

BASED ON EL PASO COUNTY LAND DEVELOPMENT CODE (CHAPTER 6) MINIMUM INTERNAL LANDSCAPE AREA EQUALS 5% OF NET REDUCED AREA. ONE TREE REQUIRED PER 500 SQUARE FEET OF MINIMUM INTERNAL LANDSCAPE AREA: 17 TREES REQUIRED, 35 TREES PROVIDED.

PLEASE REFER TO SHEET LS02 FOR PROJECT DATA, LANDSCAPE NOTES, AND PLANTING DETAILS

REFERENCE DRAWINGS

X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP
Planting Details-PH2
X-995.002-PR-LANDSCAPE_PH-2

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24520
9/18/2020

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PROJECT No. 20.995.002

LIBERTY TREE ACADEMY - PHASE 2

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-20-018

LANDSCAPE PLAN

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CHECKED BY: DRK	VERT. NA	SHEET 18 OF 19	LS01

Know what's **below.** **Call** before you dig.

EL PASO COUNTY CONSERVATION DISTRICT
SHOTGUN MIX

Common Name	Recommended Cultivar	% of seed mix	Non Irrigated PLS Rate per acre Drill	Broadcast
Bluestem, Big Native	Kaw, Bison, Champ	20.0 %	5.5	11.
Grama, Blue Native	Lovington, Hachita, Alma	10.0%	1.5	3
Green Needlegrass Native	Lodorm	10.0%	5.0	10
Wheatgrass, Western Native	Arriba, Barton	20.0%	8	16
Grama, Sideoats Native	Vaughn, Butte, El Reno, Niner	10.0%	4.5	9
Switchgrass Native	Blackwell, Greenville	10%	2	4
Prairie Sandreed Native	Goshen, Pronghorn	10.0%	3.5	7.0
Yellow Indiangrass Native	Cheyenne, Holt, Llano	10.0%	5.0	10

El Paso County Conservation District
5610 Industrial Pl. Suite 100
Colorado Springs, CO 80916

719-600-4706
www.epccd.org

NATIVE SEED MIX

PHASE 2 PROJECT DATA	
DESCRIPTION	QUANTITY
PROPERTY (NET REDUCED AREA)	183,448 S.F.
BUILDING*	7,120 S.F.
PARKING & OTHER VEHICULAR USE AREAS*	31,235 S.F.
LANDSCAPE*	51,637 S.F.
PARKING STALLS*	85

* ONLY A PORTION OF THE TOTAL LOT IS BEING DEVELOPED AT THIS TIME. THEREFORE, THE QUANTITY SHOWN ABOVE IS ONLY THAT PORTION BEING DEVELOPED AT THIS TIME.

LANDSCAPE NOTES:

1. ALL CONSTRUCTION SHALL BE DONE PER REGULATIONS OF GOVERNING AGENCIES.
2. AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM IS REQUIRED FOR ALL LANDSCAPE AREAS. SPRAY IRRIGATION WILL BE PROVIDED FOR TURF AND GRASS AREAS; DRIP IRRIGATION WILL BE PROVIDED FOR ALL SHRUB BEDS AND TREES.
3. NO TREE OR SHRUB WILL BE PLANTED WITHIN 5' OF A FIRE HYDRANT.
4. DISTANCE OF TREES FROM WET UTILITY LINES SHALL BE A MINIMUM OF 10 FEET.
5. ALL SHRUB BED AREAS SHALL BE SEPARATED FROM SOD OR GRASS AREAS BY ROLLED-TOP STEEL EDGING MATERIAL.
6. 3" DEPTH RIVER GRAVEL MULCH ($1\frac{1}{2}$") SHALL BE PLACED OVER A SUITABLE WEED BARRIER FABRIC IN ALL SHRUB PLANTING BEDS.
7. SOIL PREPARATION FOR LANDSCAPE AREAS SHALL INCLUDE TOPSOIL AND/OR ORGANIC MATTER (COMPOST OR AGED GROUND MANURE) AND SHALL BE ADDED AT A RATE OF 4 CUBIC YARDS PER ONE THOUSAND SQUARE FEET AND TILLED 8" DEPTH INTO THE SOIL.
8. SHRUB BEDS SHALL BE AMENDED AND TILLED IN THEIR ENTIRETY.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
10. CONTRACTOR SHALL ENSURE THAT THE LANDSCAPE PLAN IS COORDINATED WITH THE PLANS PREPARED BY OTHER CONSULTANTS SO THAT THE PROPOSED GRADING, STORM DRAINAGE, OR OTHER CONSTRUCTION DOES NOT CONFLICT WITH NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS AS DESIGNATED ON THIS PLAN.
11. TOPSOIL, IF DISTURBED SHALL BE STOCKPILED AND RE-USED ON THE SITE.
12. BASED ON EL PASO COUNTY LAND DEVELOPMENT CODE (CHAPTER 6) MINIMUM INTERNAL LANDSCAPE AREA EQUALS 5% OF NET REDUCED AREA. ONE TREE REQUIRED PER 500 SQUARE FEET OF MINIMUM INTERNAL LANDSCAPE AREA: 17 TREES REQUIRED, 17 TREES PROVIDED. BASED ON EL PASO COUNTY LAND DEVELOPMENT CODE (CHAPTER 6) ONE TREE REQUIRED PER 25 LINEAR FEET OF STREET FRONTAGE: 453 LF PHASE 2 STREET FRONTAGE: 18 TREES REQUIRED, 18 TREES PROVIDED. TOTAL OF 35 TREES PROVIDED.

LANDSCAPE SETBACKS

SEE CODE SECTION / POLICY

STREET NAME OR ZONE BOUNDARY	STREET CLASSIFICATION	WIDTH (IN FT.) REQ. / PROV.	LINEAR FOOTAGE	TREE / FOOT REQUIRED	NO. OF TREES REQ. / PROV.
EASTONVILLE RD.	MINOR ARTERIAL	20 / 24	453'	1 / 25'	18 / 18

SHRUB SUBSTITUTES REQUIRED / PROVIDED	ORNAMENTAL GRASS SUB. REQUIRED / PROVIDED	SETBACK PLANT ABBR. DENOTED ON PLAN	PERCENT GROUND PLANE VEG. REQ. / PROVIDED
0 / 0	0 / 0	(SEE PLANS)	75% / 75%

Internal Landscaping

NET SITE AREA (SF)	PERCENT MINIMUM INTERNAL AREA (%)	INTERNAL AREA (SF) REQUIRED / PROVIDED	INTERNAL TREES (1 / 500 SF) REQUIRED / PROVIDED
183,448 SF	5%	9,173 / 51,637	19 / 35

SHRUB SUBSTITUTES REQUIRED / PROVIDED	ORNAMENTAL GRASS SUB. REQUIRED / PROVIDED	INTERNAL PLANT ABBR. DENOTED ON PLAN	PERCENT GROUND PLANE VEG. REQ. / PROVIDED
0 / 0	0 / 0	(SEE PLANS)	75% / 100%

Motor Vehicle Lots

NO. OF VEHICLE SPACES PROVIDED	SHADE TREES (1 / 15 SPACES) REQUIRED / PROVIDED	VEHICLE LOT FRONTAGES	LENGTH OF FRONTAGE (EXCLUDING DRIVEWAYS)	2 / 3 LENGTH OF FRONTAGE (LF)
85	6 / 8	EASTONVILLE RD.	453 LF	302 LF

Landscape Buffer & Screens

STREET NAME OR PROPERTY LINE	WIDTH (IN FT.) REQ. / PROV.	LINEAR FOOTAGE	BUFFER TREES (1 / 25') REQUIRED / PROVIDED	EVERGREEN TREES REQ. (1 / 3) / PROV.
EASTONVILLE RD.	20 / 24	453'	18 / 18	6 / 12

LENGTH OF 6' OPAQUE STRUCTURE REQ./PROV.	BUFFER TREE ABBR. DENOTED ON PLAN	PERCENT GROUND PLANE VEG. REQ. / PROV.
302 LF / 410 LF	(SEE PLANS)	75% / 75%

DECIDUOUS TREE PLANTING
NTS

NOTE: REFER TO VARIOUS SPECIFIC TREE INSTALLATION DETAILS FOR STAKING, GUYING, MULCHING, ETC.

NOTE: THIS INSTALLATION SHALL APPLY TO ALL TREE TYPES AND SIZES PLANTED ON SLOPES LESS THAN 2:1.

TREE PLANTING ON SLOPE
NTS

NOTES:
1. INSTALL SPECIFIED MULCH TO DRIPLINE OF TREE WHERE PLANTED IN GRASS AREAS.
2. DO NOT PROVIDE WATER BASIN IN IRRIGATED LAWN AREAS.
3. PLANT TOP OF ROOTBALL AT FINAL GRADE OF WATERING BASIN IN NATIVE GRASS AREAS.

EVERGREEN TREE PLANTING
NTS

NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB. THIS DETAIL SHALL ALSO APPLY TO PERENNIAL FLOWERS IN CONTAINER.

NOTE: ALL JUNIPER PLANTS SHOULD BE PLANTED SO TOP OF ROOT MASS OCCURS AT FINISH GRADE OF MULCH LAYER.

SHRUB PLANTING
NTS

REFERENCE DRAWINGS
X-995.002-MDG22x34
X-995.002-PR-BASE_PH-2
X-995.002-EX-BASE
X-995.002-EX-BASE_PH-1
X-995.002-EX-MAP
Planting Details-PH2
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LANDSCAPE NOTES

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