

LIBERTY TREE ACADEMY CONSTRUCTION DOCUMENTS

TOWN OF PEYTON, EL PASO COUNTY

PRELIMINARY DESIGN

MAY 2018



Delete/revise
with final.

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LAND USE SUMMARY

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

CIVIL ENGINEER

MATRIX DESIGN GROUP
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DENVER, CO. 80202
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LANDSCAPE ARCHITECT

MATRIX DESIGN GROUP
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TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:

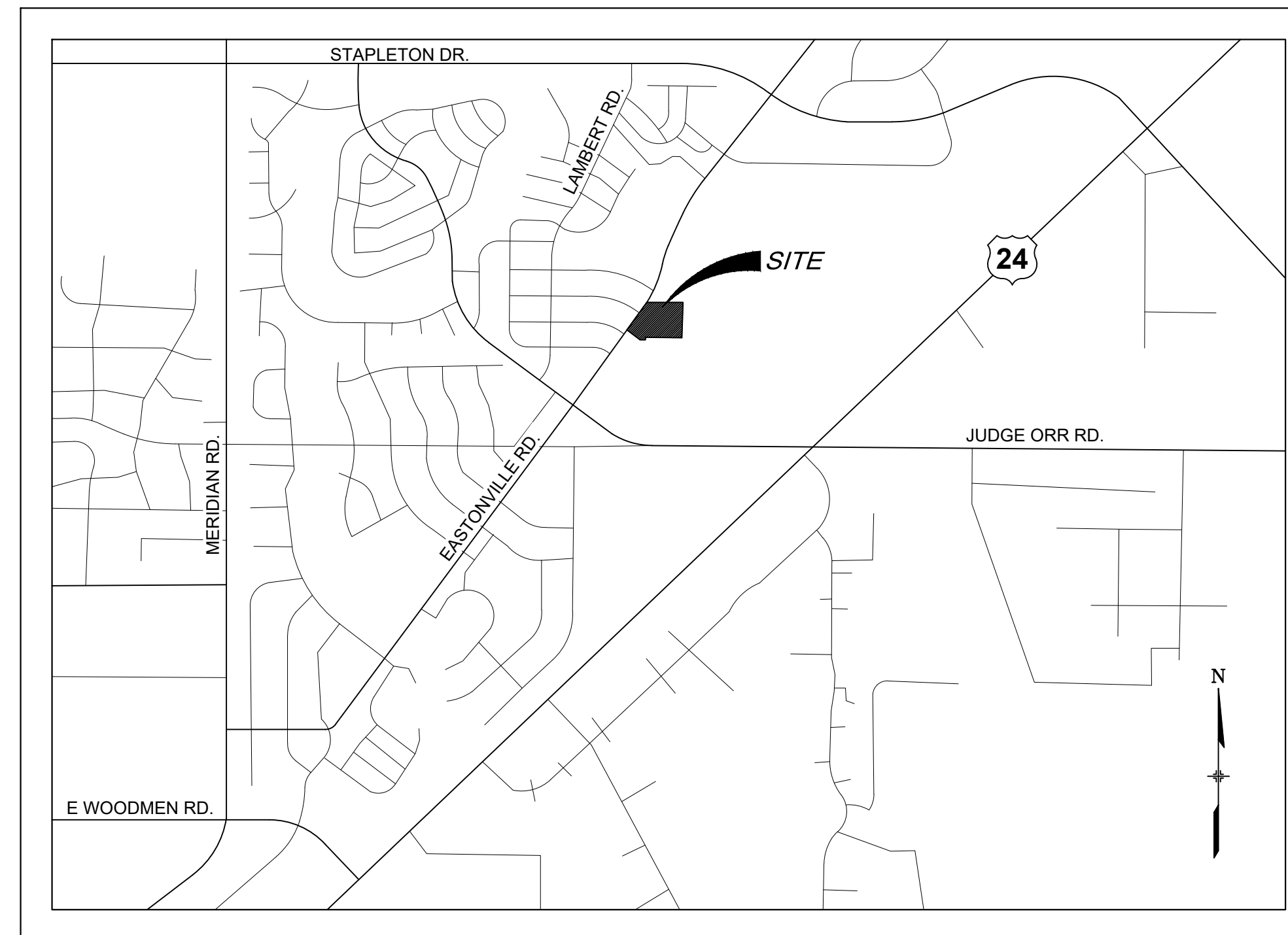
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

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).



LOCATION MAP

SCALE: N.T.S.

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

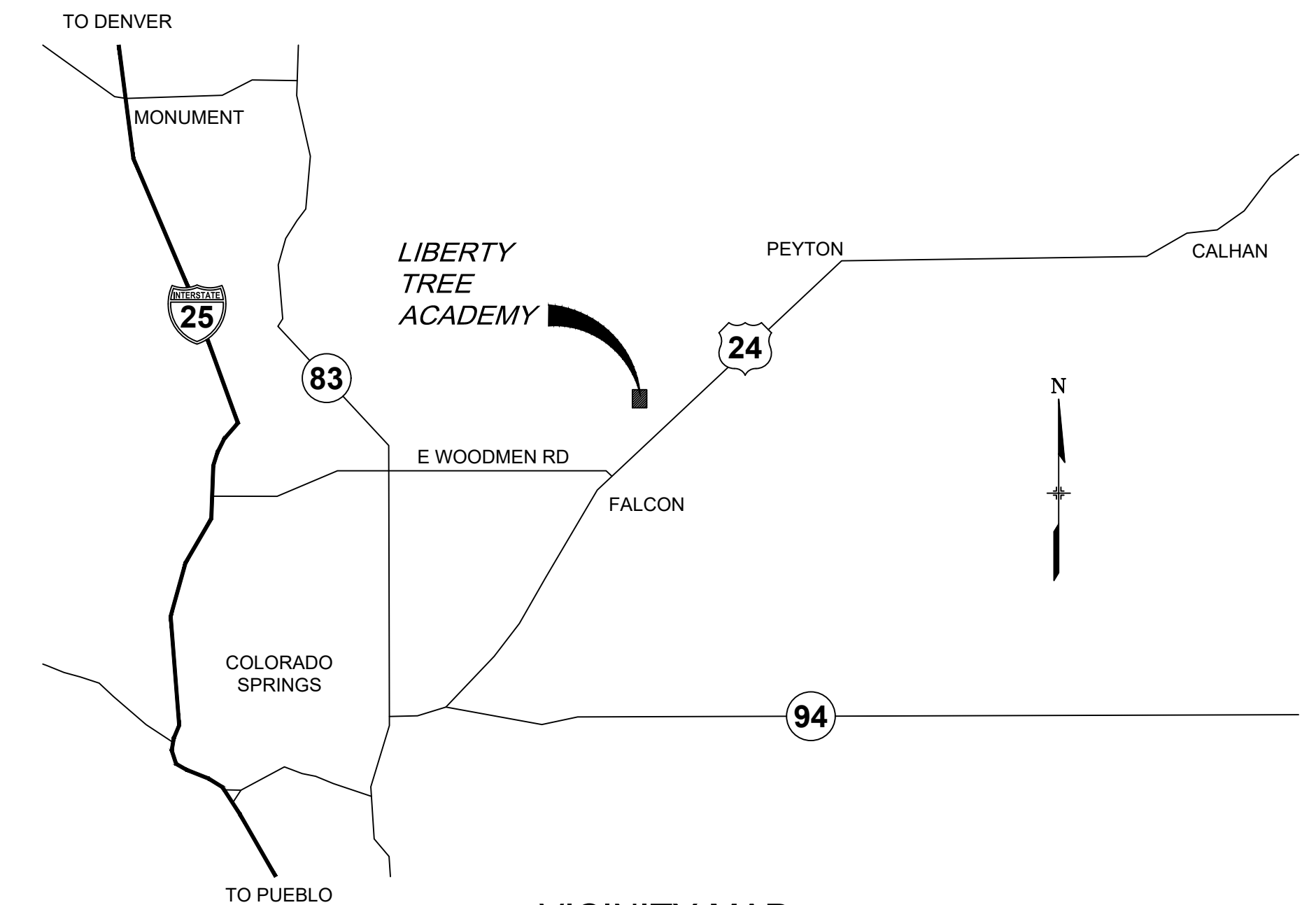
DATE

OWNER/DEVELOPER'S STATEMENT:

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

LIBERTY TREE ACADEMY COMPANY

DATE



VICINITY MAP

SCALE: N.T.S.

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.

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

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\TS01.dwg			
CTB FILE: ----			
PLOT DATE: May 4, 2018 11:15:30 AM			
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
TITLE SHEET			
DESIGNED BY:	ACR	SCALE:	DATE ISSUED:
DRAWN BY:	ACR	HORIZ.	MAY 2018
CHECKED BY:	DRK	VERT.	SHEET 1 OF 19
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001			DRAWING No. TS01



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 DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, 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.

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\GN01.dwg			
CTB FILE: ----			
PLOT DATE: 5/4/2018 11:15 AM			
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SHEET KEY



PREPARED BY:
Matrix
 DESIGN GROUP
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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

GENERAL NOTES

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 2 OF 19	GN01
CHECKED BY: DRK	VERT.		



ABBREVIATIONS

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

PROPOSED LEGEND

	PROPOSED CENTERLINE		PROPOSED MANHOLE
	PROPOSED FENCE		THRUST BLOCK
	PROPOSED UNDERGROUND UTILITY		FIRE HYDRANT
	DRAINAGE		PROPOSED WATER VALVE
	RIGHT OF WAY		WATER FITTINGS
	EASEMENT		WATER METER
	PROPOSED CURB & GUTTER		STORM INLET
	PROPOSED CONTOUR		SANITARY SEWER SERVICE
	ENERGY GRADE LINE		PROPOSED STORM DRAIN/INLET PLUG PIPE
	HYDRAULIC GRADE LINE		PROPOSED SIGN
	SLOPE OR DRAINAGE FLOW		PROPOSED BARRICADE
			PROPOSED LIGHT STANDARD

EXISTING LEGEND

	EXISTING PROPERTY LINE		EXISTING MANHOLE
	EXISTING R.O.W.		EXISTING POWER POLE
	EXISTING LOT LINE		EXISTING POWER POLE W/GUY WIRE
	EXISTING EASEMENT		EXISTING GATE VALVE
	SECTION LINE		EXISTING STORM INLET
	ROAD CENTERLINE		EXISTING SIGN
	EDGE OF PAVEMENT		EXISTING DECIDUOUS TREE
	CURB AND GUTTER		EXISTING CONIFEROUS TREE
	CONCRETE		EXISTING LIGHT STANDARD
	FENCE		
	RETAINING WALL		
	EXISTING WATERLINE		
	EXISTING SANITARY SEWER		
	EXISTING STORM SEWER		
	EXISTING ELECTRIC LINE		
	EXISTING GAS LINE		
	EXISTING TELEPHONE LINE		
	EXISTING FIBER LINE		
	EXISTING CONTOUR MAJOR		
	EXISTING CONTOUR MINOR		
	EXISTING FLOOD PLAIN		

MATERIALS LEGEND

	CONCRETE
	RECOMPACTED SUBGRADE
	HOT BITUMINOUS PAVEMENT (ASPHALT)

REFERENCE DRAWINGS			
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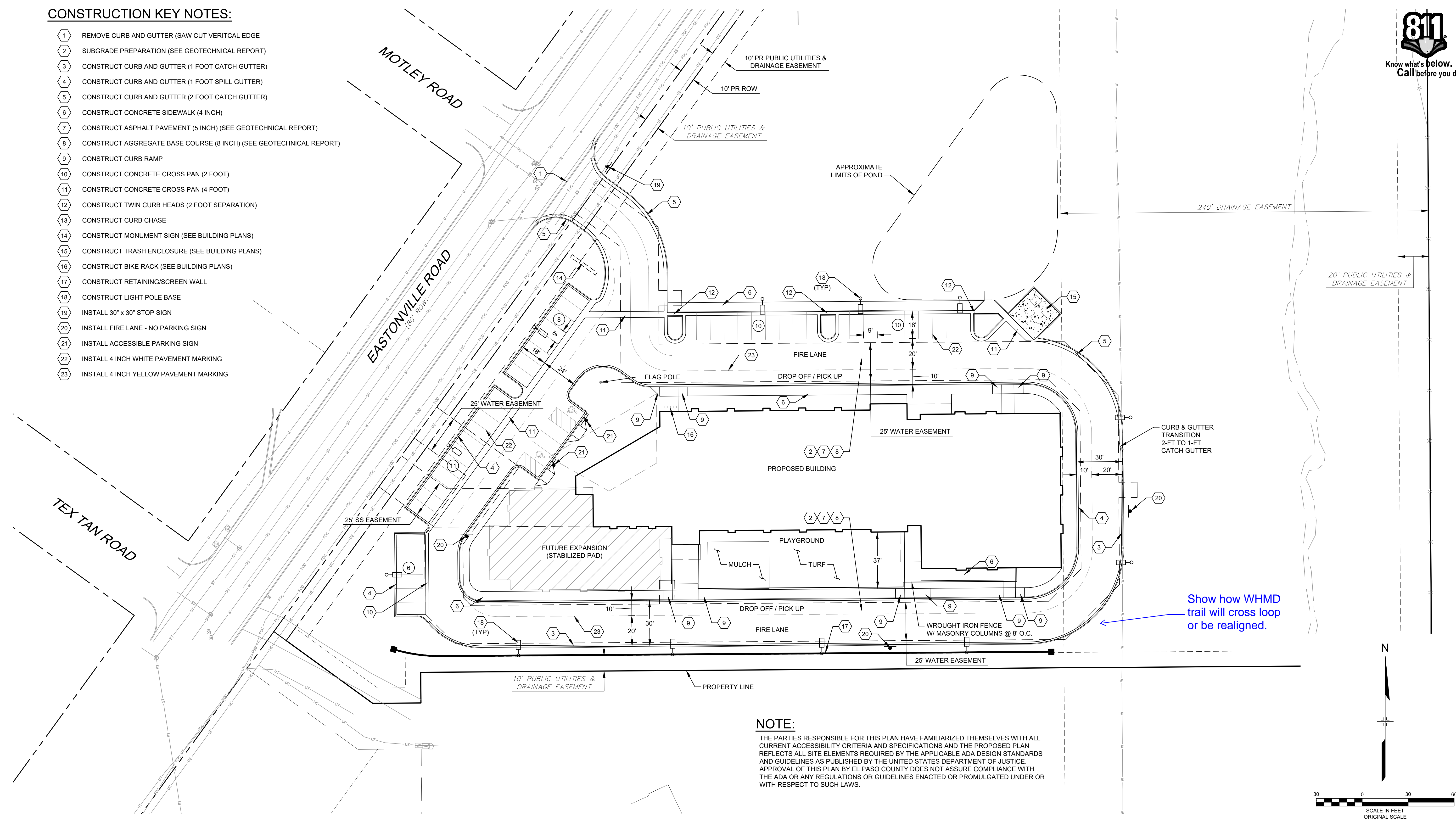
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
LEGEND & ABBREVIATIONS			
DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 3 OF 19	LA01
CHECKED BY: DRK	VERT.		

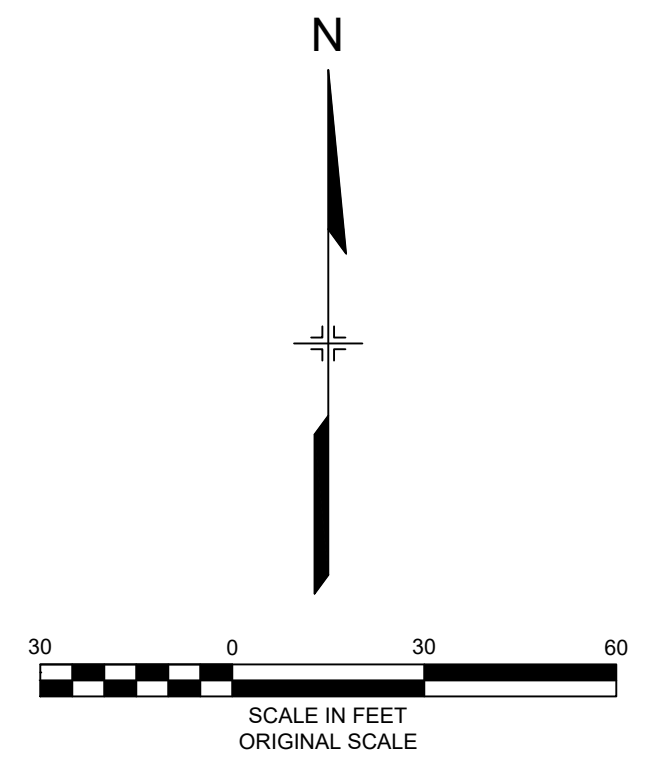


CONSTRUCTION KEY NOTES:

- 1 REMOVE CURB AND GUTTER (SAW CUT VERTICAL EDGE)
- 2 SUBGRADE PREPARATION (SEE GEOTECHNICAL REPORT)
- 3 CONSTRUCT CURB AND GUTTER (1 FOOT CATCH GUTTER)
- 4 CONSTRUCT CURB AND GUTTER (1 FOOT SPILL GUTTER)
- 5 CONSTRUCT CURB AND GUTTER (2 FOOT CATCH GUTTER)
- 6 CONSTRUCT CONCRETE SIDEWALK (4 INCH)
- 7 CONSTRUCT ASPHALT PAVEMENT (5 INCH) (SEE GEOTECHNICAL REPORT)
- 8 CONSTRUCT AGGREGATE BASE COURSE (8 INCH) (SEE GEOTECHNICAL REPORT)
- 9 CONSTRUCT CURB RAMP
- 10 CONSTRUCT CONCRETE CROSS PAN (2 FOOT)
- 11 CONSTRUCT CONCRETE CROSS PAN (4 FOOT)
- 12 CONSTRUCT TWIN CURB HEADS (2 FOOT SEPARATION)
- 13 CONSTRUCT CURB CHASE
- 14 CONSTRUCT MONUMENT SIGN (SEE BUILDING PLANS)
- 15 CONSTRUCT TRASH ENCLOSURE (SEE BUILDING PLANS)
- 16 CONSTRUCT BIKE RACK (SEE BUILDING PLANS)
- 17 CONSTRUCT RETAINING/SCREEN WALL
- 18 CONSTRUCT LIGHT POLE BASE
- 19 INSTALL 30" x 30" STOP SIGN
- 20 INSTALL FIRE LANE - NO PARKING SIGN
- 21 INSTALL ACCESSIBLE PARKING SIGN
- 22 INSTALL 4 INCH WHITE PAVEMENT MARKING
- 23 INSTALL 4 INCH YELLOW PAVEMENT MARKING



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-MD-G22x34			
X 995-PR-BASE			
X 995-EX-BASE			
X 995-EX-MAP			
X 995-PR-UTIL			
No.	DATE	DESCRIPTION	BY
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SHEET KEY	
1	LIBERTY TREE ACADEMY



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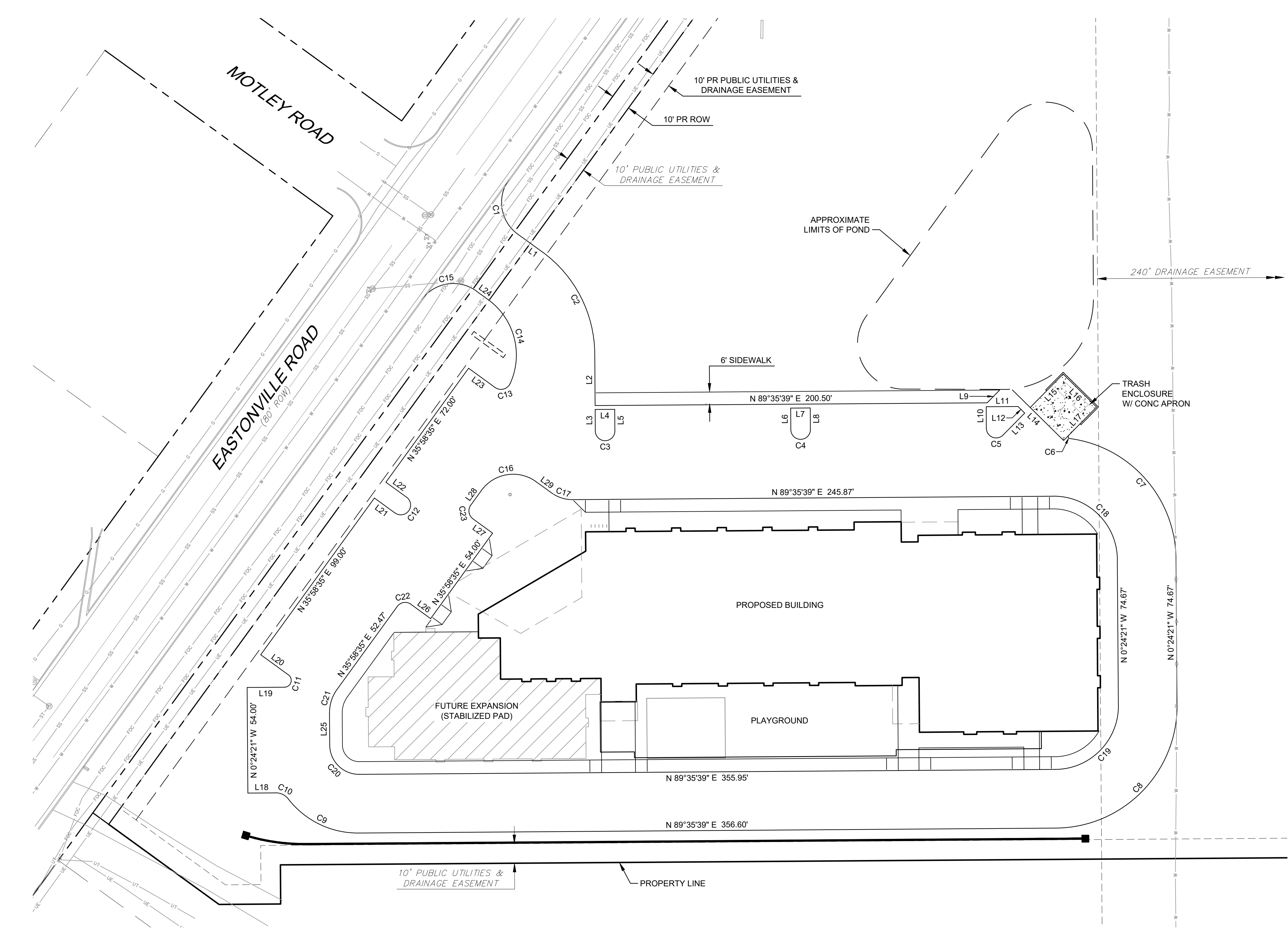
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TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

SITE PLAN

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 4 OF 19	SP01
CHECKED BY: DRK	VERT.		

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001



Line #	Length	Direction
L1	15.56'	S 54°01'25" E
L2	26.39'	N 0°24'21" W
L3	11.00'	N 0°24'21" W
L4	10.00'	N 89°35'39" E
L5	11.00'	N 0°24'21" W
L6	11.00'	N 0°24'21" W
L7	10.00'	N 89°35'39" E
L8	11.00'	N 0°24'21" W
L9	9.19'	N 44°35'39" E
L10	11.00'	N 0°24'21" W
L11	16.29'	N 89°35'39" E
L12	4.80'	N 45°24'21" W
L13	15.76'	N 44°35'39" E
L14	36.82'	N 45°24'21" W
L15	24.00'	N 44°35'39" E
L16	24.00'	N 45°24'21" W
L17	24.00'	N 44°35'39" E
L18	14.27'	S 89°35'39" W
L19	19.04'	S 89°35'39" W
L20	17.45'	N 54°01'25" W
L21	13.00'	N 54°01'25" W
L22	13.00'	N 54°01'25" W
L23	16.71'	N 54°01'25" W
L24	7.47'	S 54°01'25" E
L25	16.58'	N 0°24'21" W
L26	12.45'	N 54°01'25" W
L27	12.45'	N 54°01'25" W
L28	9.31'	N 35°58'35" E
L29	10.01'	N 54°20'05" W

Curve	Length	Radius	Delta	Chord Bearing	Chord
C1	31.43'	20.00'	90°01'37"	S 9°00'37" E	28.29'
C2	60.83'	65.00'	53°37'04"	N 27°12'53" W	58.63'
C3	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C4	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C5	11.78'	5.00'	135°00'00"	S 67°54'21" E	9.24'
C6	2.22'	1.00'	127°01'45"	S 18°55'10" E	1.79'
C7	89.48'	62.50'	82°01'41"	N 41°25'12" W	82.03'
C8	98.17'	62.50'	90°00'00"	N 44°35'39" E	88.39'
C9	41.32'	45.00'	52°36'57"	S 64°05'53" E	39.89'
C10	7.35'	8.00'	52°36'57"	N 64°05'53" W	7.09'
C11	8.77'	3.50'	143°37'04"	N 17°47'07" E	6.65'
C12	15.71'	5.00'	180°00'03"	N 35°58'36" E	10.00'
C13	9.12'	5.15'	101°24'49"	N 75°16'10" E	7.97'
C14	48.02'	35.00'	78°36'32"	N 14°43'09" W	44.34'
C15	31.42'	20.00'	90°00'18"	S 80°58'26" W	28.29'
C16	31.31'	20.00'	89°41'20"	S 80°49'15" W	28.21'
C17	11.33'	18.00'	36°04'16"	S 72°22'13" E	11.15'
C18	51.05'	32.50'	90°00'00"	N 45°24'21" W	45.96'
C19	51.05'	32.50'	90°00'00"	N 44°35'39" E	45.96'
C20	23.56'	15.00'	90°00'00"	S 45°24'21" E	21.21'
C21	12.70'	20.00'	36°22'56"	S 17°47'07" W	12.49'
C22	7.85'	5.00'	90°00'00"	S 80°58'35" W	7.07'
C23	7.85'	5.00'	90°00'00"	S 9°01'25" E	7.07'

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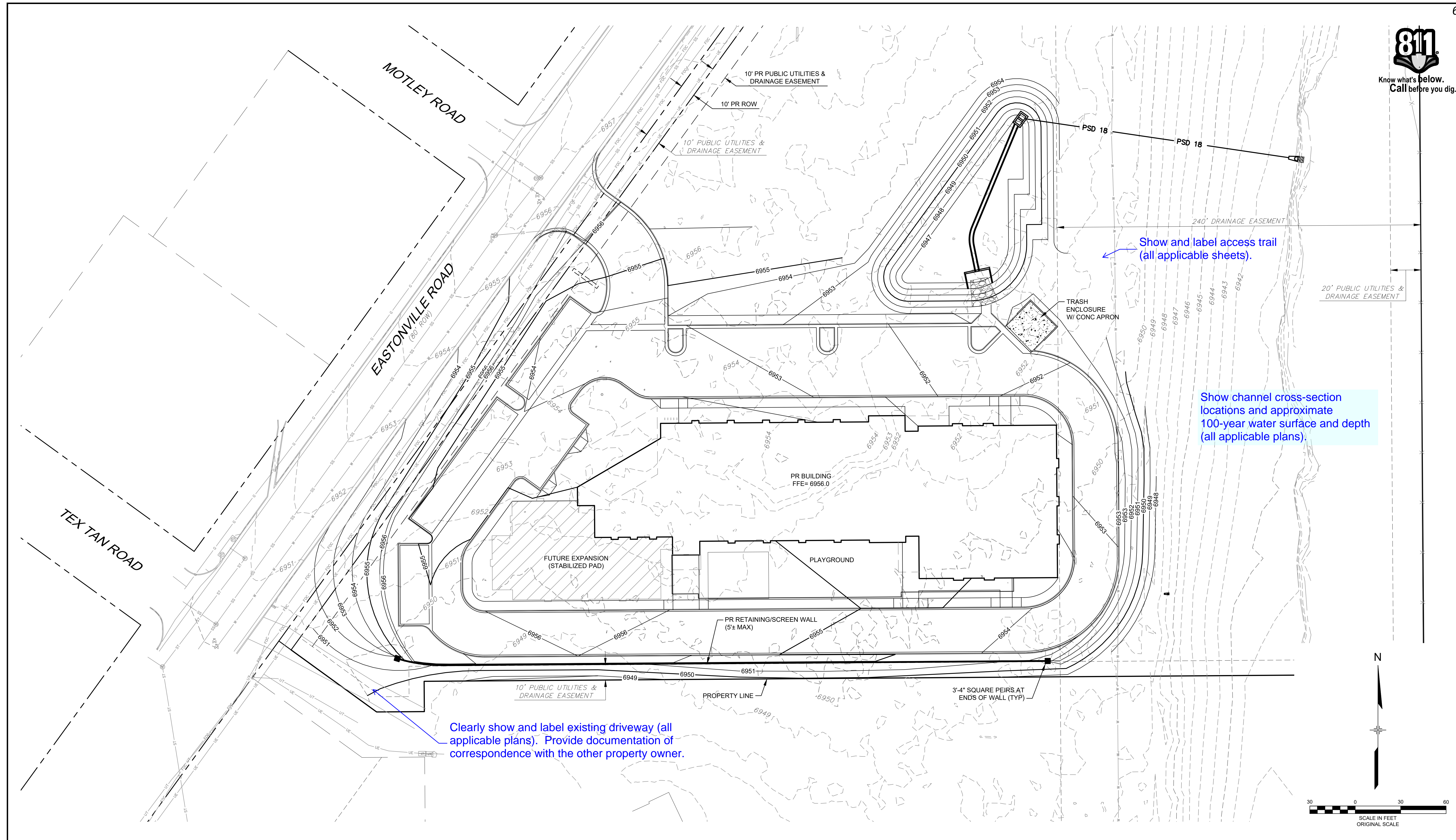
FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL PLAN

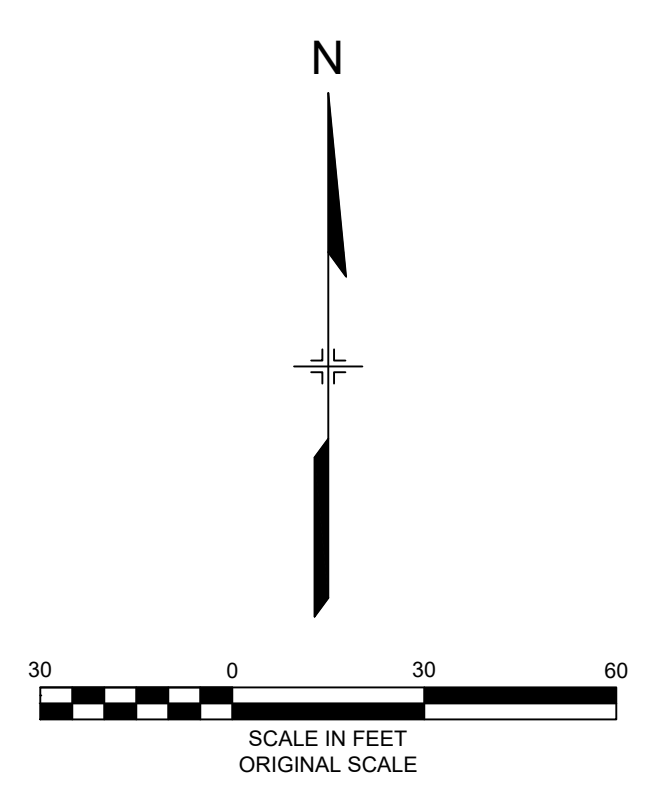
DESIGNED BY: ACR SCALE: DATE ISSUED: MAY 2018 DRAWING No. HC01
 DRAWN BY: ACR HORIZ. SHEET 5 OF 19
 CHECKED BY: DRK VERT.



Show and label access trail (all applicable sheets).

Show channel cross-section locations and approximate 100-year water surface and depth (all applicable plans).

Clearly show and label existing driveway (all applicable plans). Provide documentation of correspondence with the other property owner.



REFERENCE DRAWINGS			
X 995-MD-G22x34			
X 995-PR-BASE			
X 995-EX-BASE			
X 995-EX-MAP			
X 995-PR-UTIL			
No.	DATE	DESCRIPTION	BY
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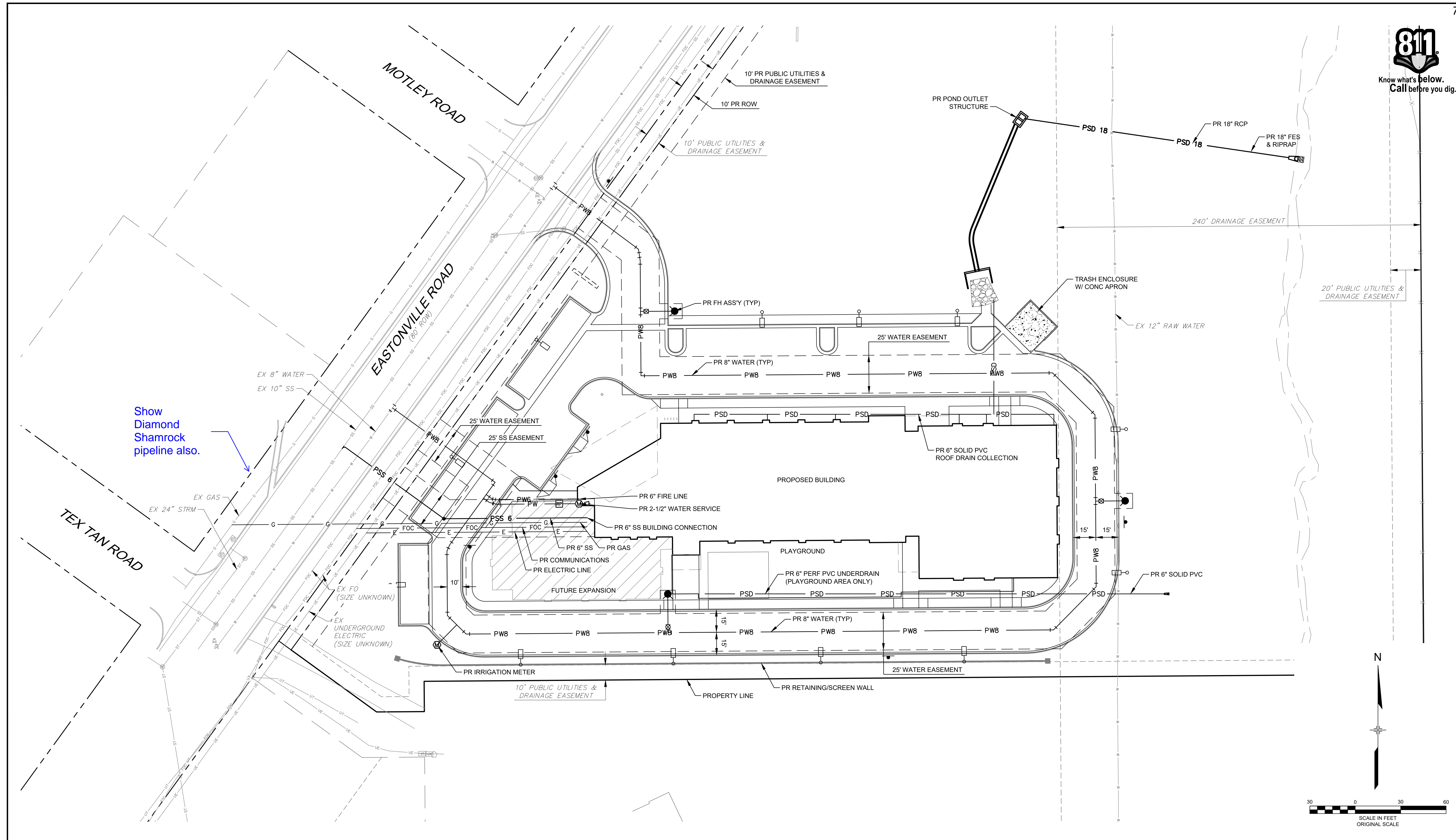
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
GRADING PLAN			
DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No. GR01
DRAWN BY: ACR	HORIZ.	SHEET 6 OF 19	
CHECKED BY: DRK	VERT.		



Know what's below. Call before you dig.



Show Diamond Shamrock pipeline also.

No.	DATE	DESCRIPTION	BY
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FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\UT01.dwg			
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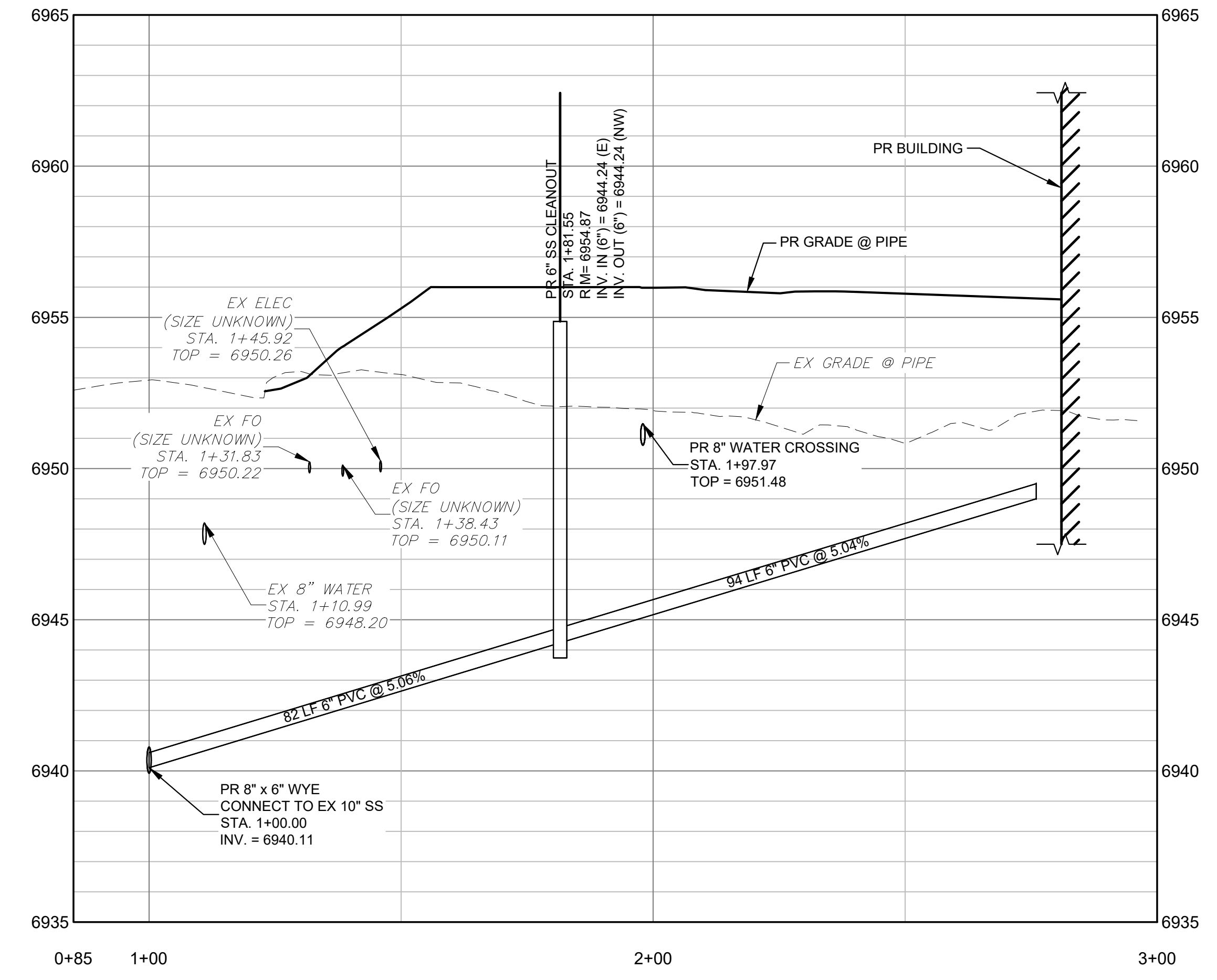
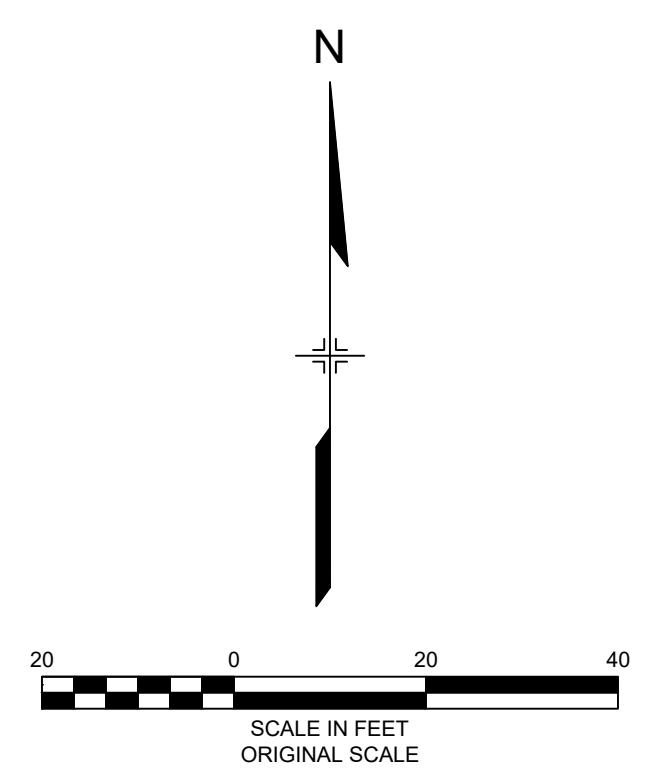
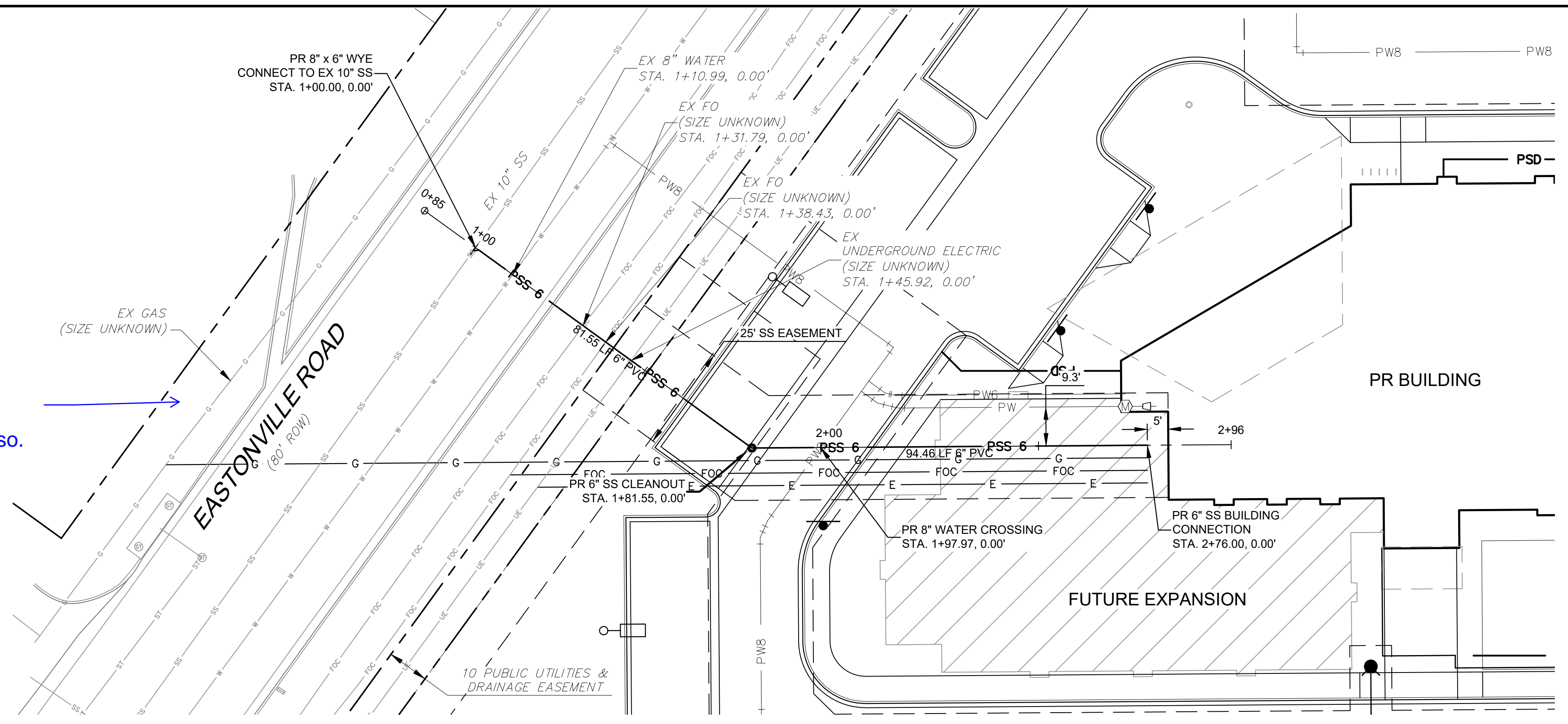
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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS
OVERALL UTILITY PLAN

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No. UT01
DRAWN BY: ACR	HORIZ.	SHEET 7 OF 19	
CHECKED BY: DRK	VERT.		



Show Diamond Shamrock pipeline also.



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X:995-EX-BASE	
X:995-EX-MAP	
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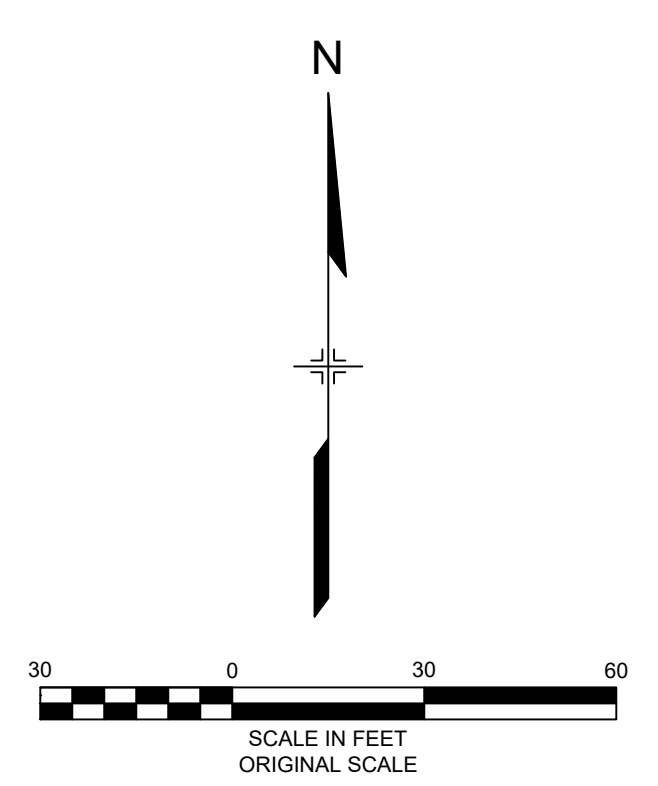
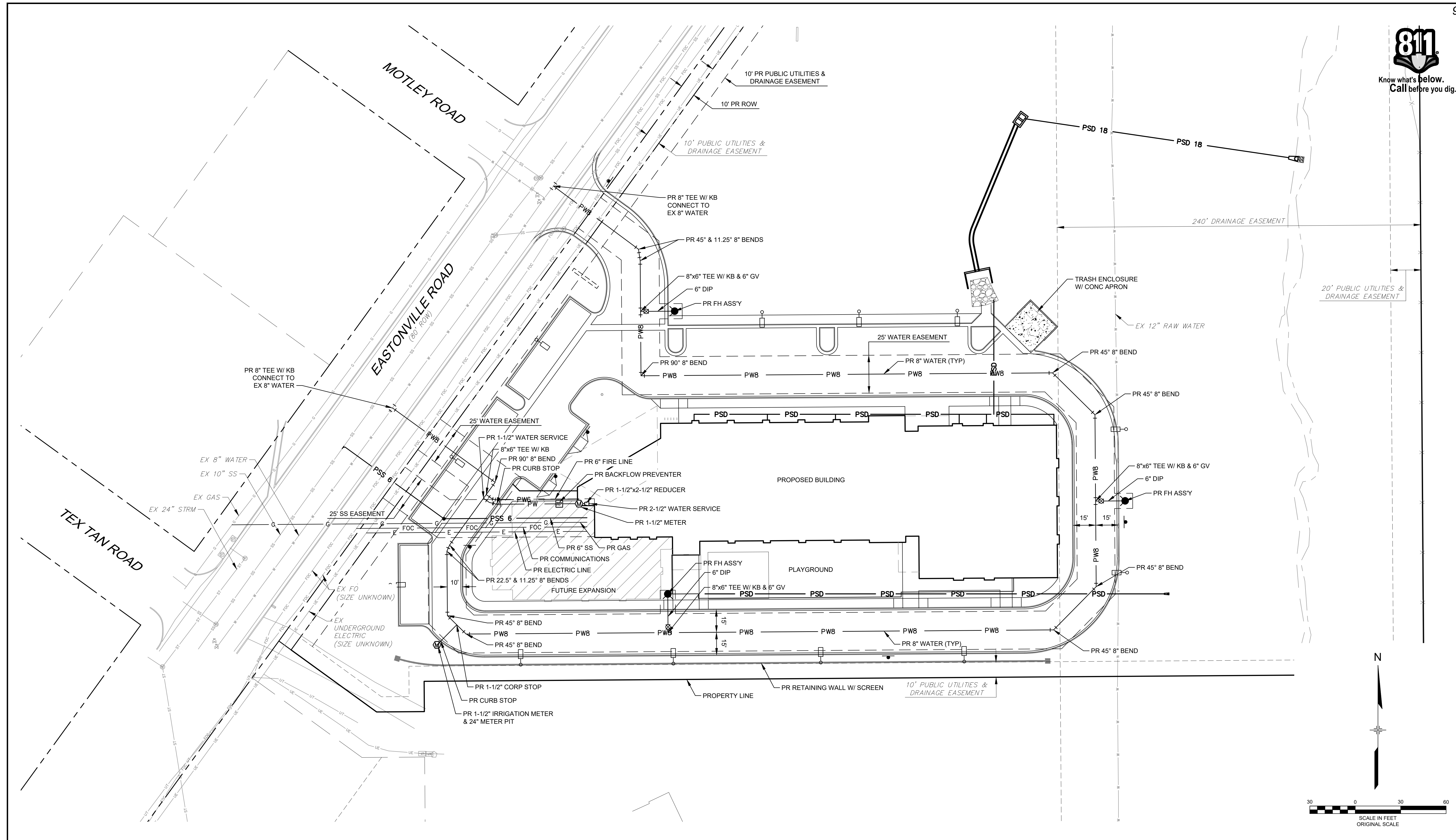


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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SANITARY SEWER PLAN & PROFILE			
DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
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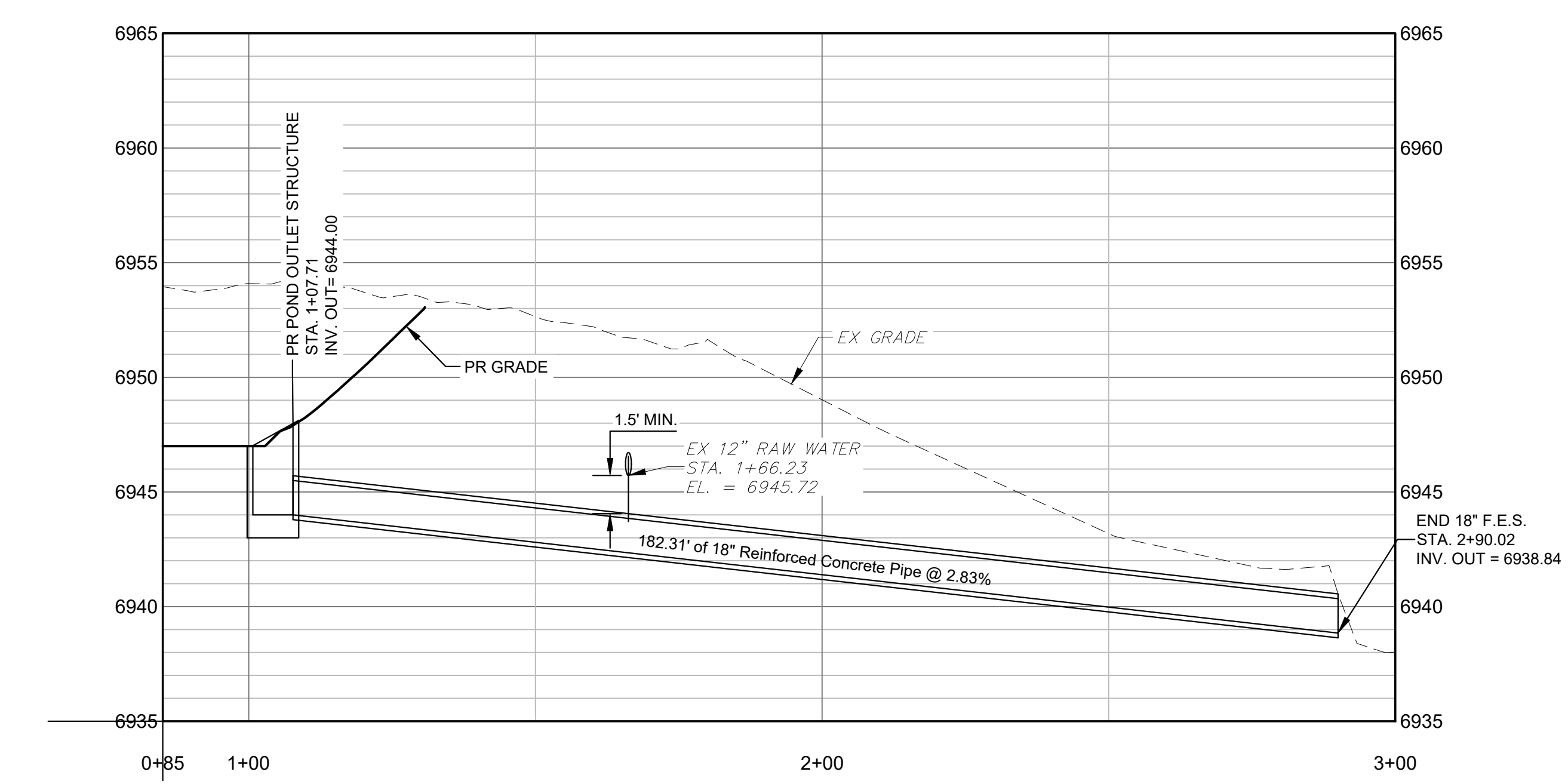
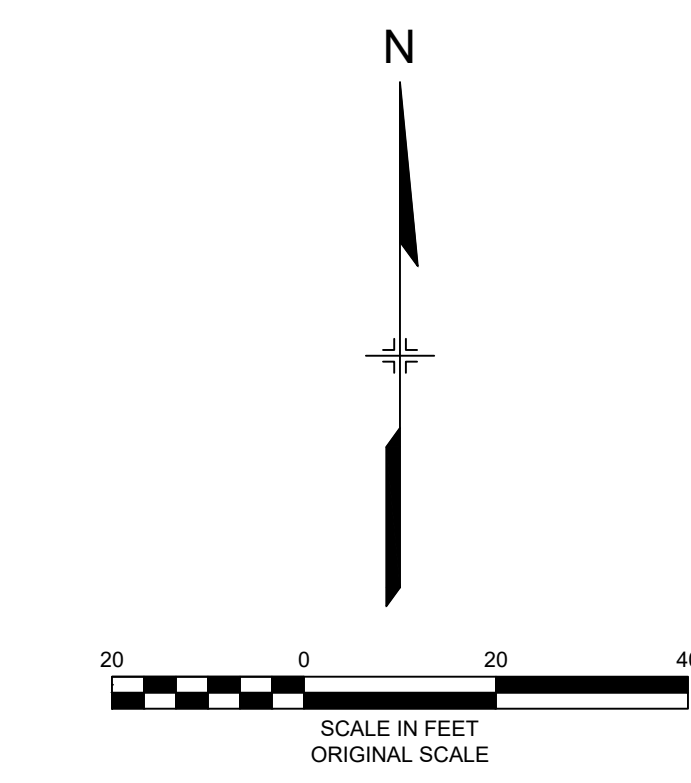
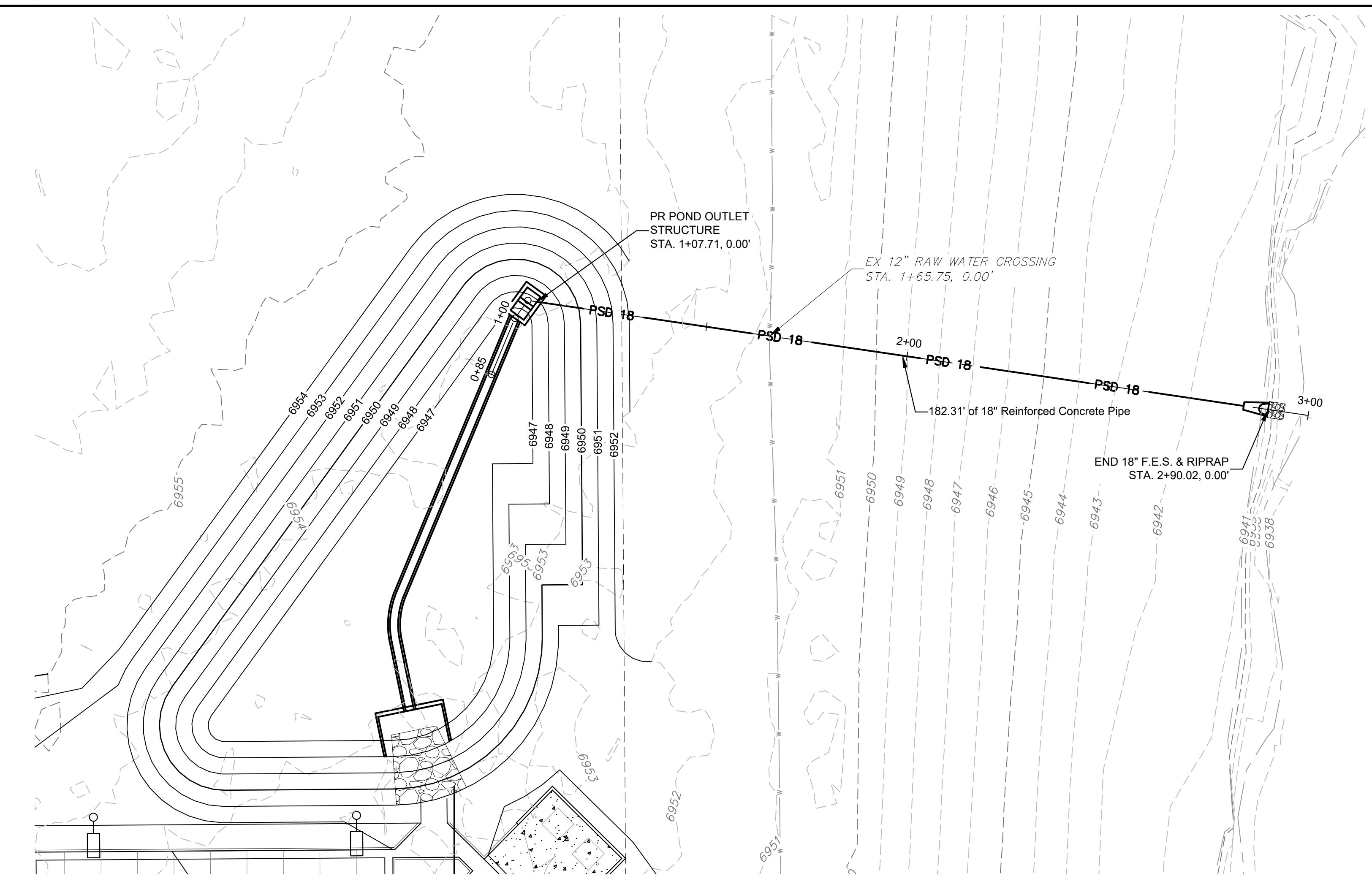
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SITE WATER MAIN PLAN			
DESIGNED BY:	ACR	SCALE:	DATE ISSUED:
DRAWN BY:	ACR	HORIZ.	MAY 2018
CHECKED BY:	DRK	VERT.	9 OF 19
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001			DRAWING No. WT01



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 X:995-EX-MAP
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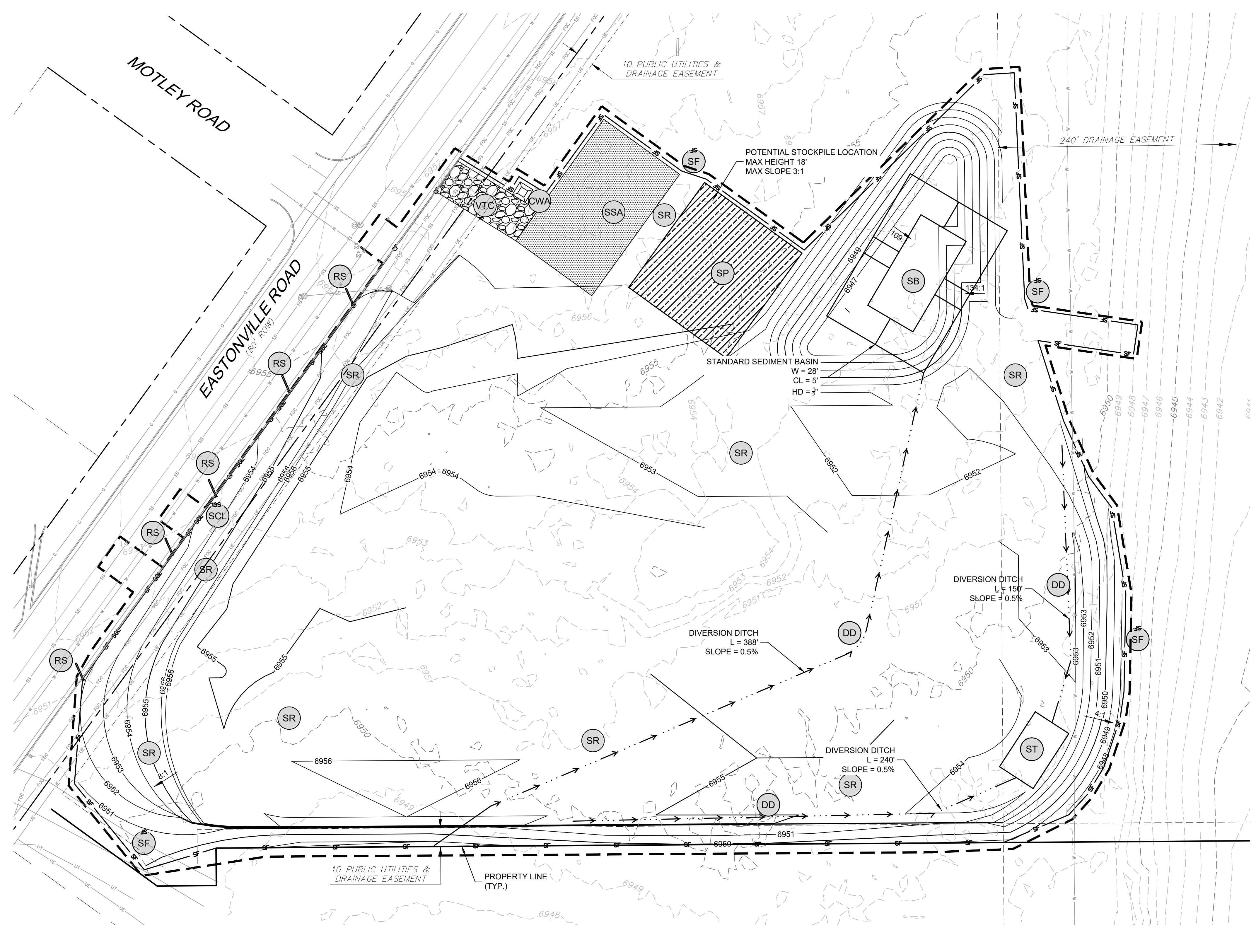


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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS
STORMWATER PLAN & PROFILE

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No. SD01
DRAWN BY: ACR	HORIZ.	SHEET 10 OF 19	
CHECKED BY: DRK	VERT.		

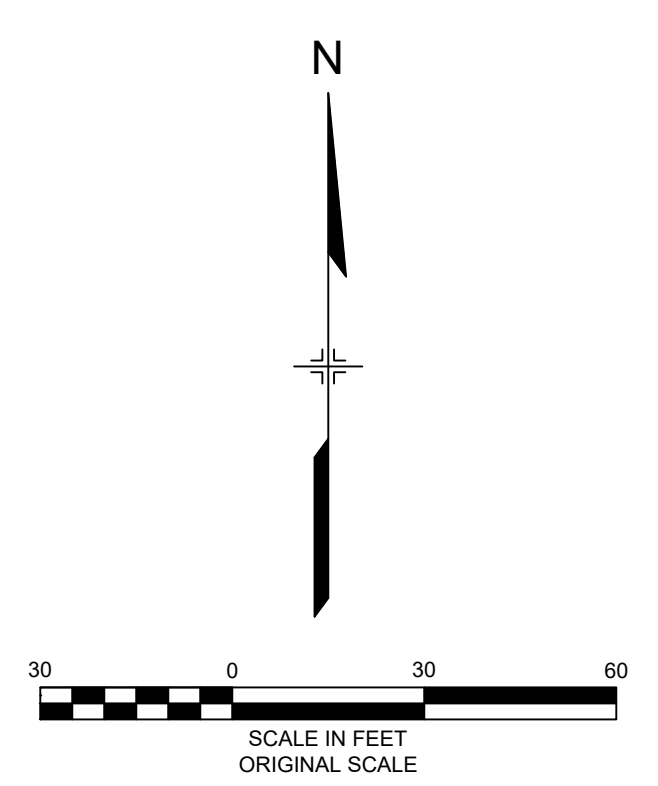


BMP LEGEND

	CWA	CONCRETE WASHOUT AREA
	DD	DIVERSION DITCH
	ECB	EROSION CONTROL BLANKET
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG
	ST	SEDIMENT TRAP
	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
		EXISTING 1' CONTOURS
		EXISTING 5' CONTOURS
		PROPOSED 1' CONTOURS
		PROPOSED 5' CONTOURS

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.



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X-995-PR-SWMP			
X-995-EX-BASE			
X-995-EX-MAP			
X-995-MDG22x34			
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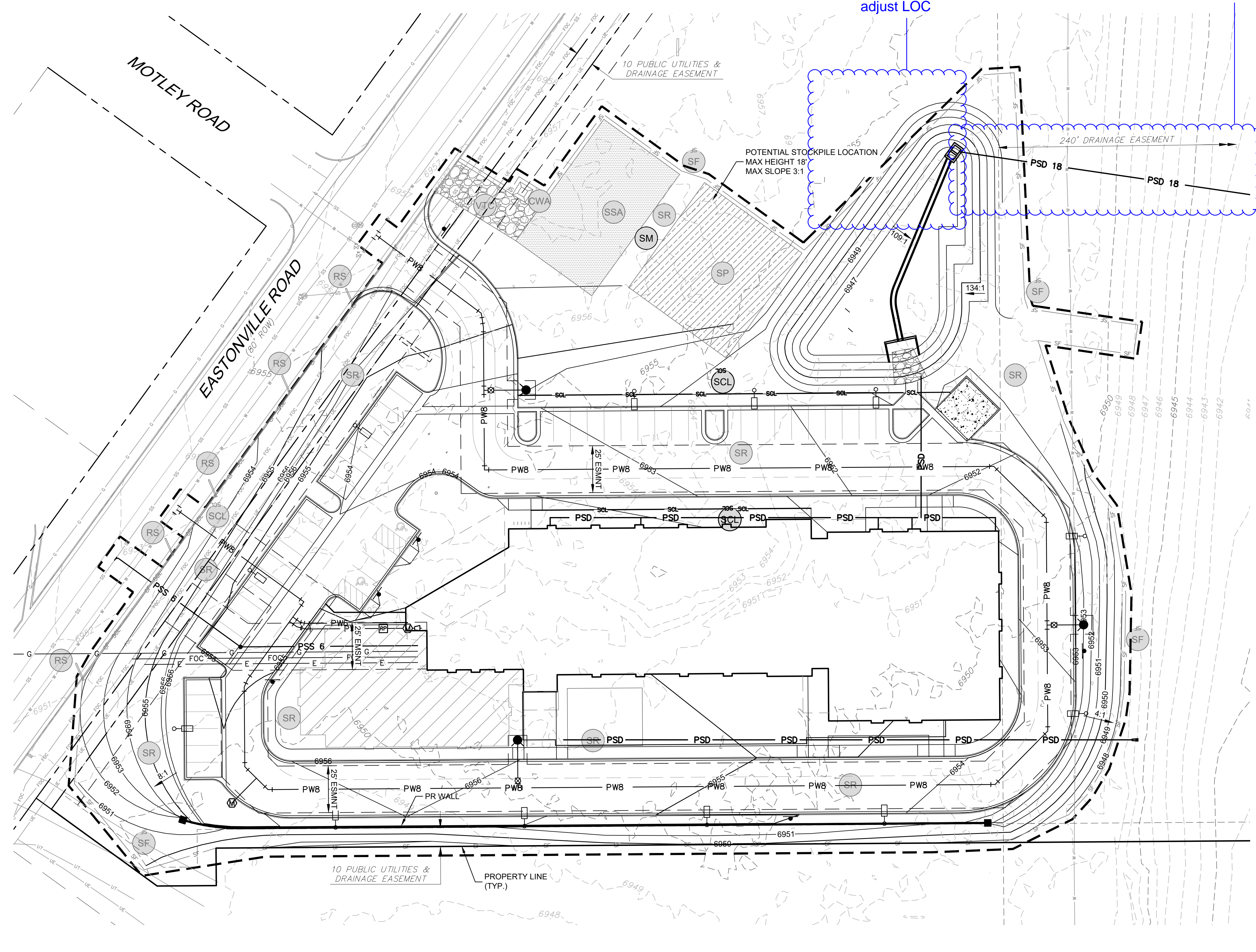
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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

INITIAL EROSION CONTROL PLAN
 SITE PREP, DEMO, AND GRADING

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 11 OF 19	EC01
CHECKED BY: DRK	VERT.		

FOR AND ON BEHALF OF
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 PROJECT No. 18.995.001

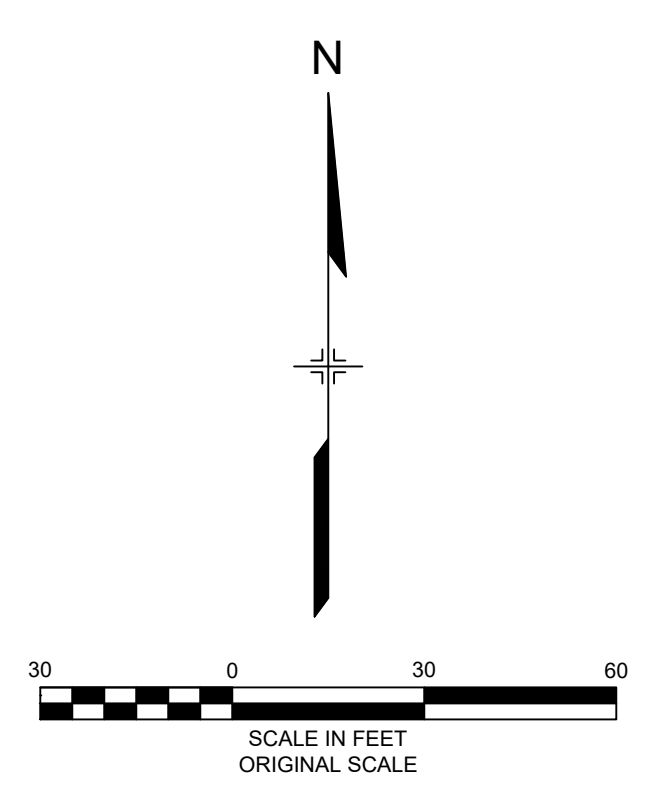


BMP LEGEND

[Symbol]	(CWA) CONCRETE WASHOUT AREA
[Symbol]	(DD) DIVERSION DITCH
[Symbol]	(ECB) EROSION CONTROL BLANKET
[Symbol]	(SB) SEDIMENT BASIN
[Symbol]	(SCL) SEDIMENT CONTROL LOG
[Symbol]	(ST) SEDIMENT TRAP
[Symbol]	(SM) SEEDING AND MULCHING
[Symbol]	(SF) SILT FENCE
[Symbol]	(SSA) STABILIZED STAGING AREA
[Symbol]	(SR) SURFACE ROUGHING
[Symbol]	(VTC) VEHICLE TRACKING CONTROL
[Symbol]	(RS) ROCK SOCKS
[Symbol]	(CF) CONSTRUCTION FENCE
[Symbol]	(LOC) LIMITS OF CONSTRUCTION
[Symbol]	EXISTING 1' CONTOURS
[Symbol]	EXISTING 5' CONTOURS
[Symbol]	PROPOSED 1' CONTOURS
[Symbol]	PROPOSED 5' CONTOURS

NOTES:

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- 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.



REFERENCE DRAWINGS

- X:995-PR-SWMP
- X:995-EX-BASE
- X:995-EX-MAP
- X:995-MDG22x34
- X:995-PR-UTL
- X:995-PR-BASE

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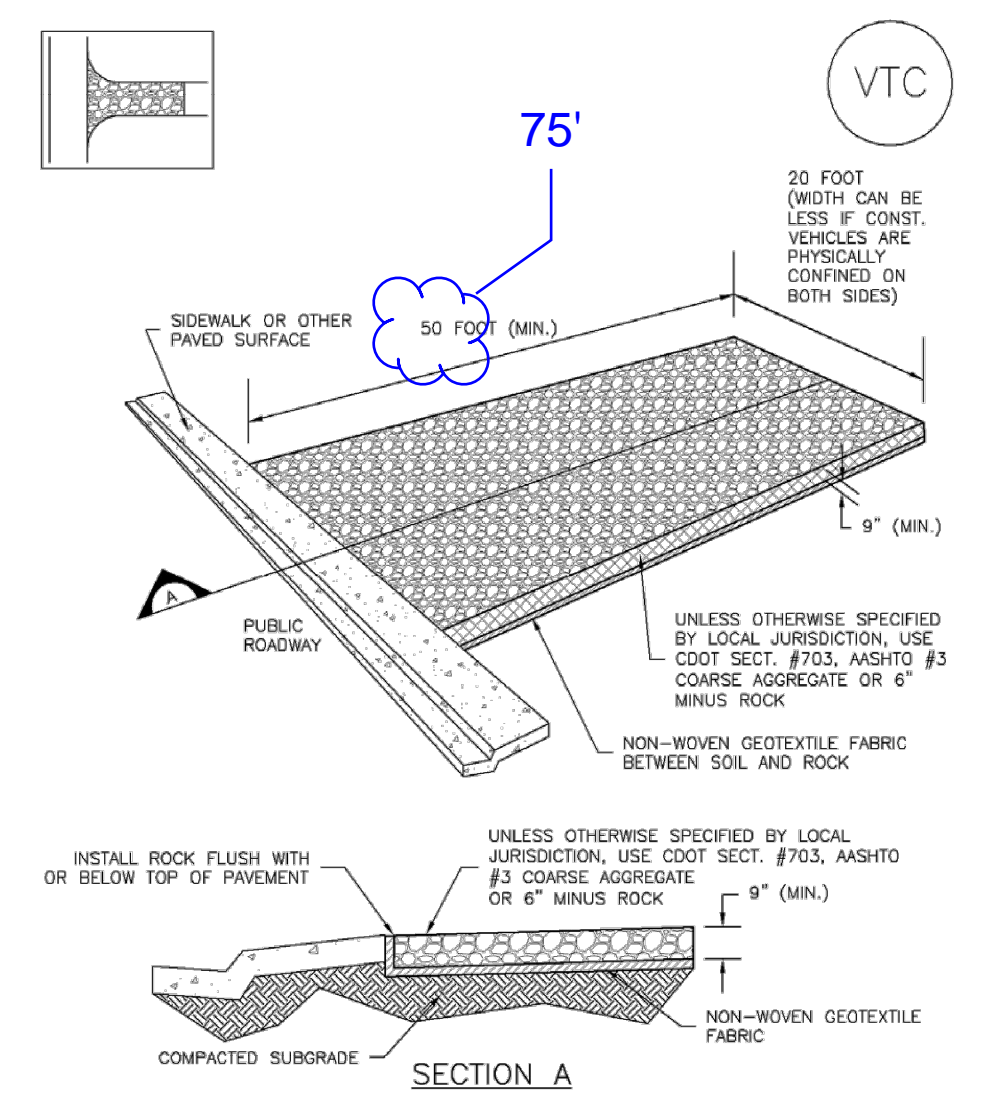
LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS
FINAL EROSION CONTROL PLAN
PERMANENT SITE STABILIZATION

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 12 OF 19	EC02
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PROJECT No. 18.995.001



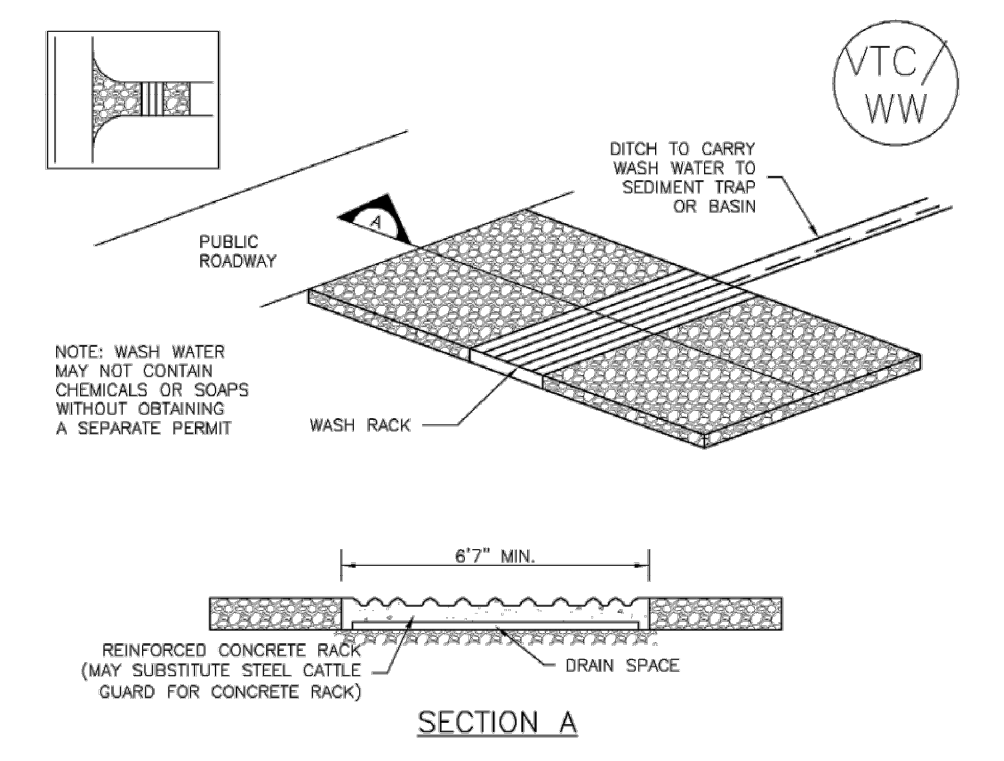
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

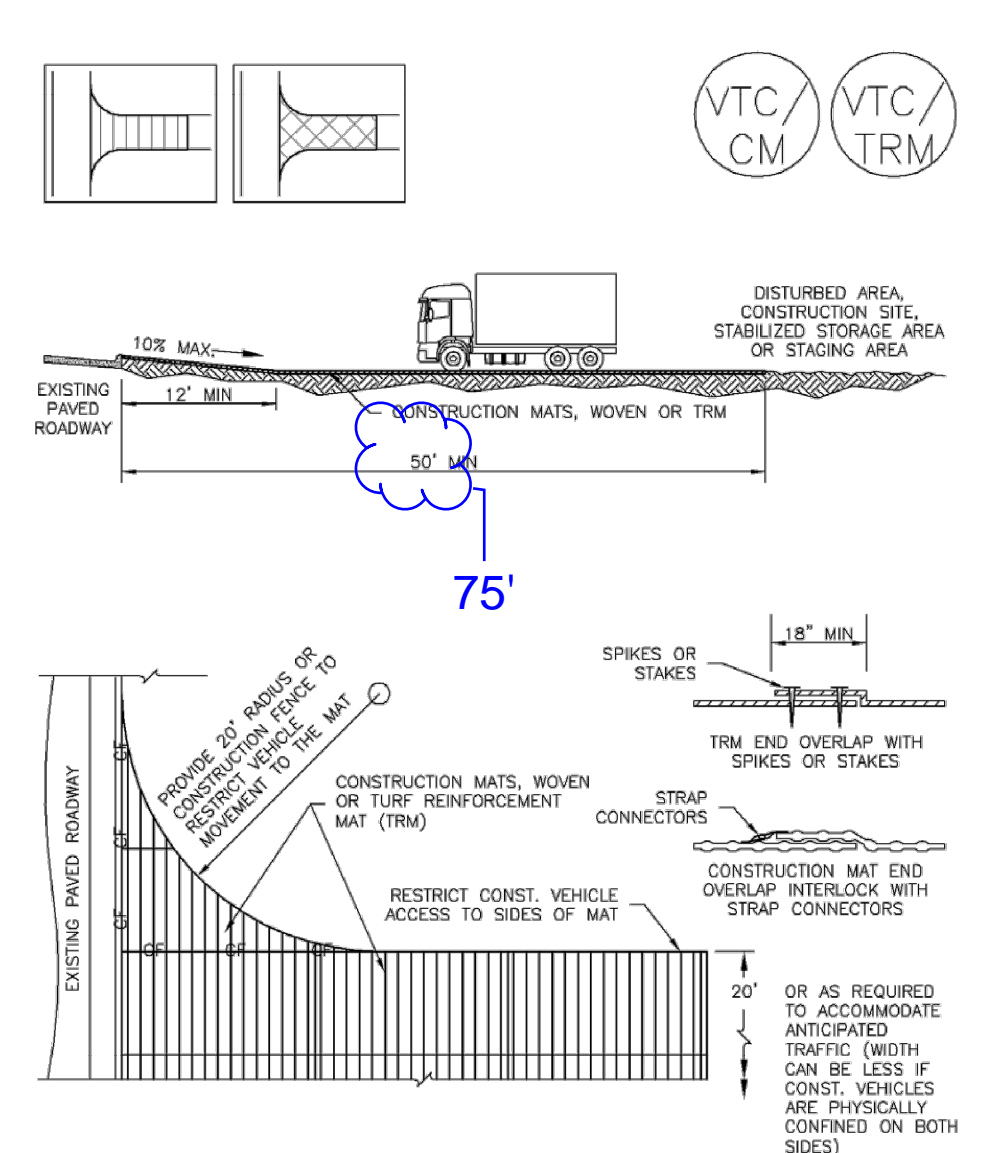
SM-4 Vehicle Tracking Control (VTC)



VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



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

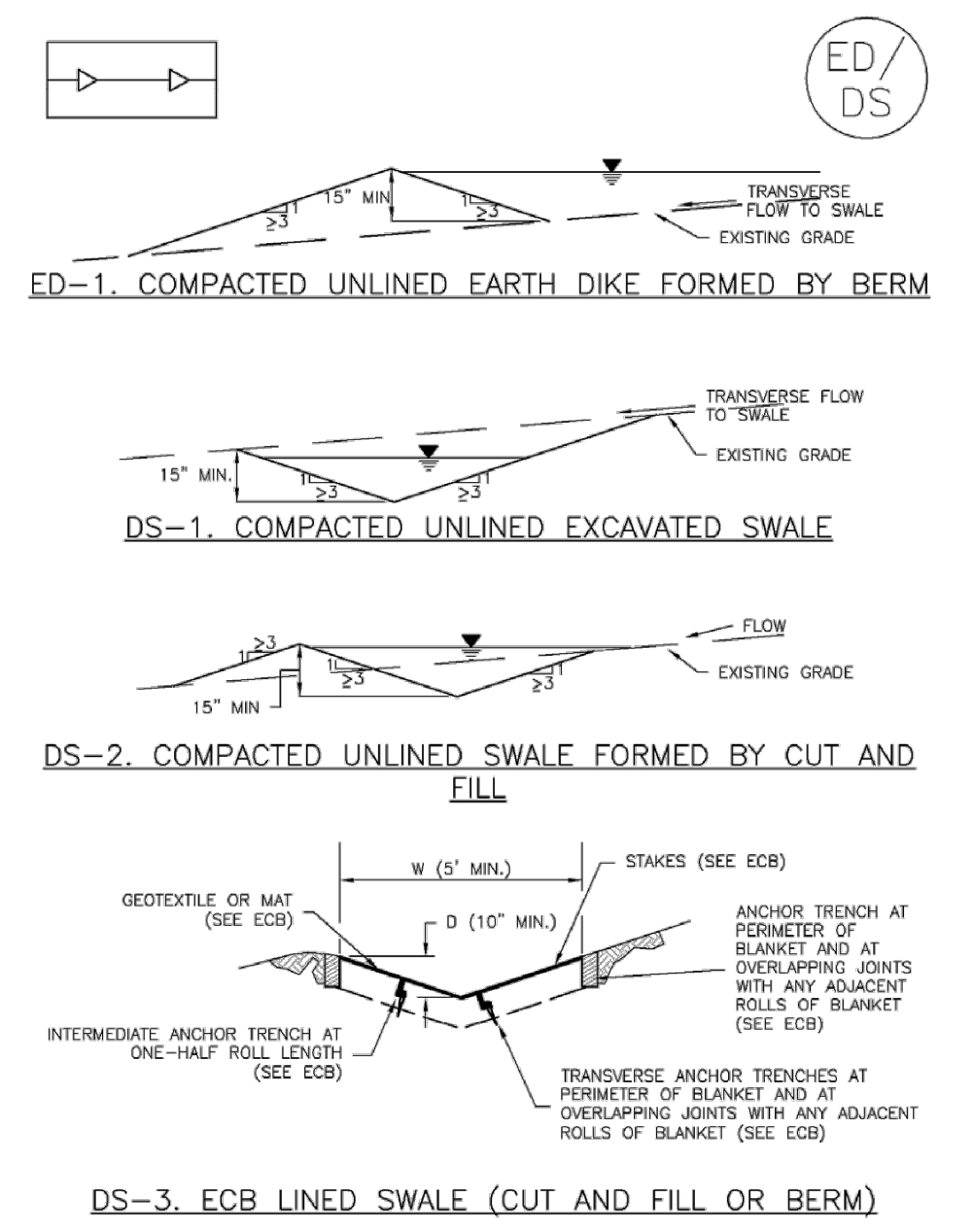
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-5

SM-4 Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S), - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM.
 - 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.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - 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**
- 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.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - 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 USDCD 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 AIRBORN)

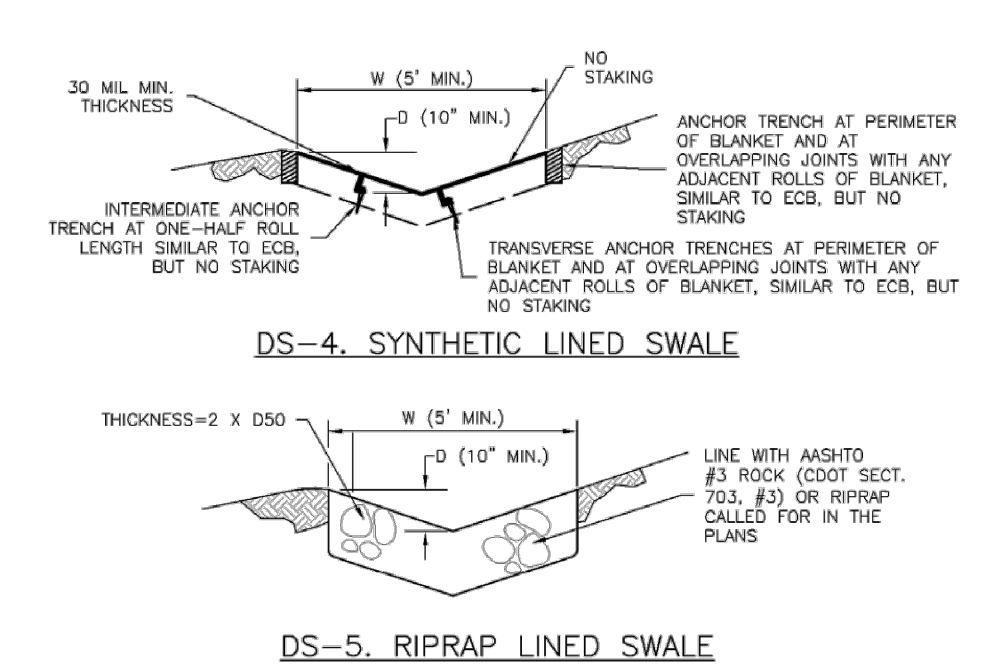
VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

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



EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE.
- 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.

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

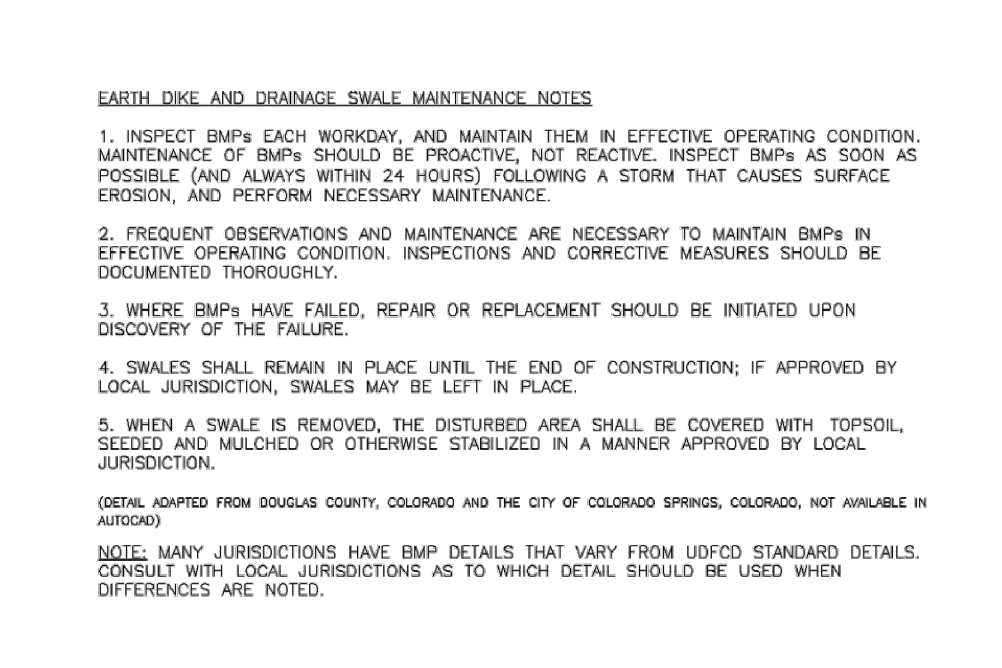
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRING, COLORADO, NOT AVAILABLE IN AIRBORN)

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

- 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.
- SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CPS.
- EARTH DIKES AND SWALES INDICATED ON SWAMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY.
- EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
- SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
- FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.
- WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-5

Mulching (MU) EC-4

Description

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 reseeded. 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:



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

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

June 2012 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 MU-1

REFERENCE DRAWINGS

X-995 MDG22x34

No.	DATE	DESCRIPTION	BY
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SHEET KEY

13



PREPARED BY:
Matrix
DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
CHECKED BY: DRK	HORIZ.	SHEET 13 OF 19	ECDT01
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.		PROJECT No. 18.995.001	



EC-4 Mulching (MU)

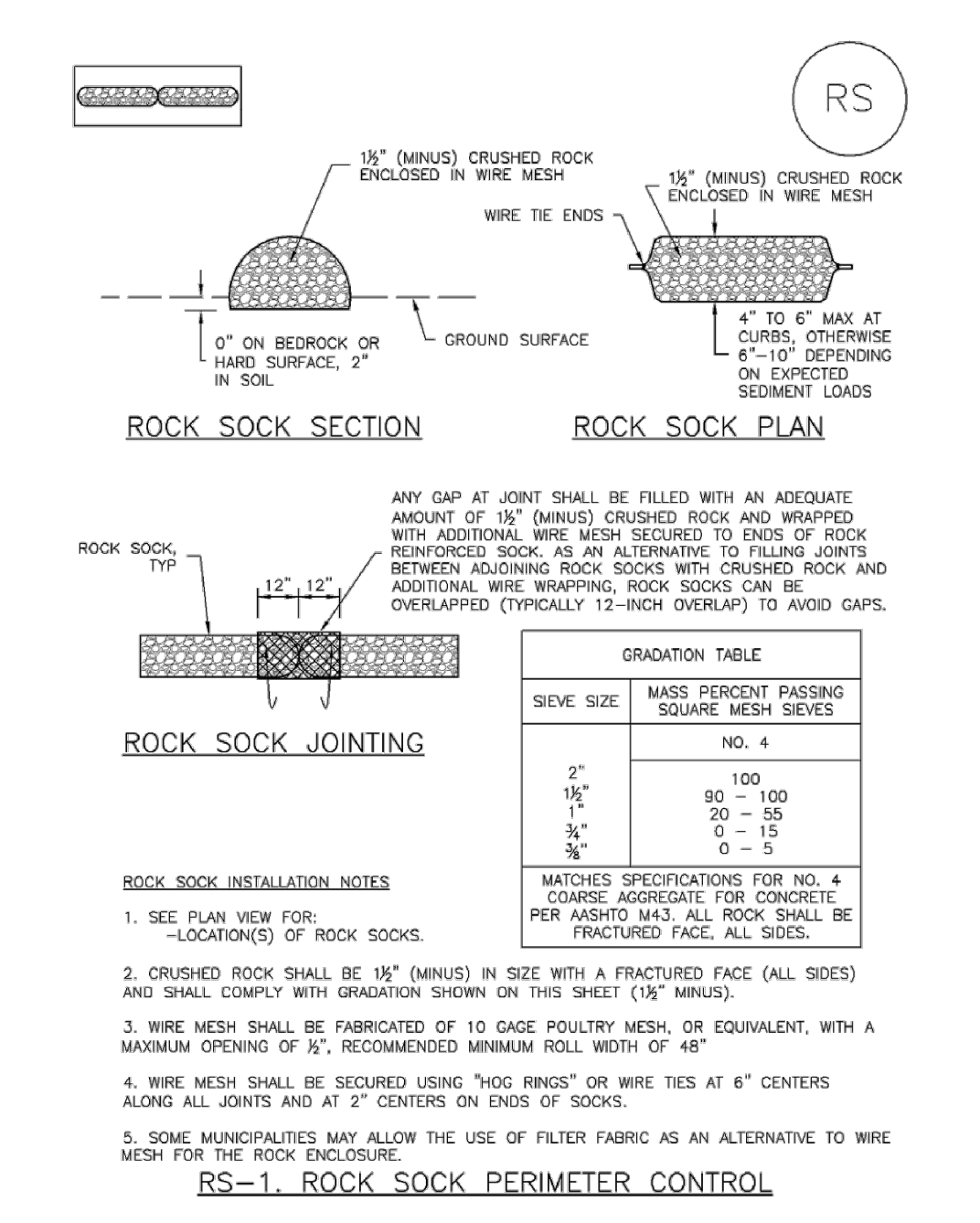
- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping 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 not 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.

MU-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 June 2012

SC-5 Rock Sock (RS)



RS-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Rock Sock (RS) SC-5

ROCK SOCK MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- 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 1/3 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

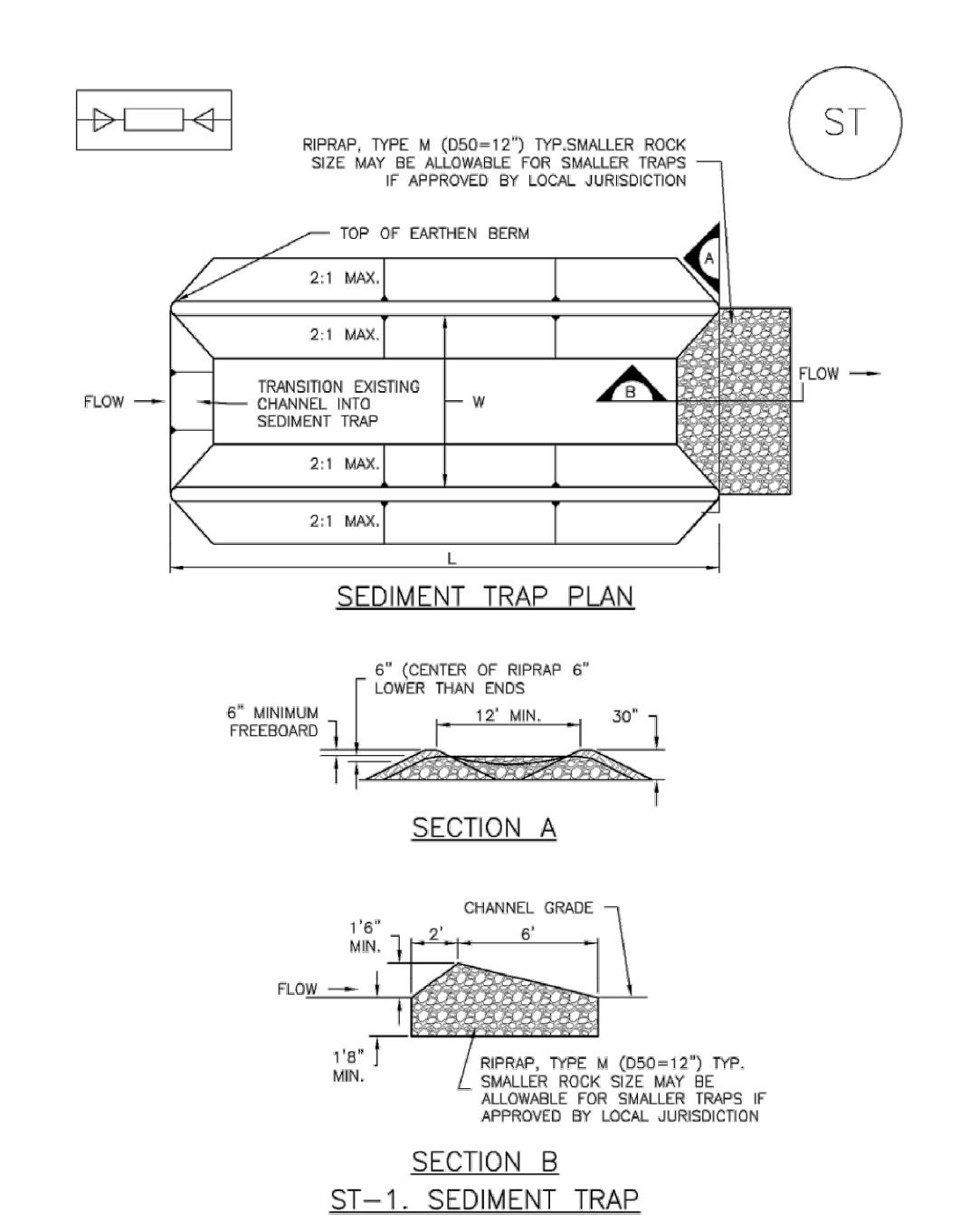
(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF ALBUQUA, COLORADO, NOT AVAILABLE IN ALBUQUA)

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.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE SOUTHERN METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NETHER INDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS. HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

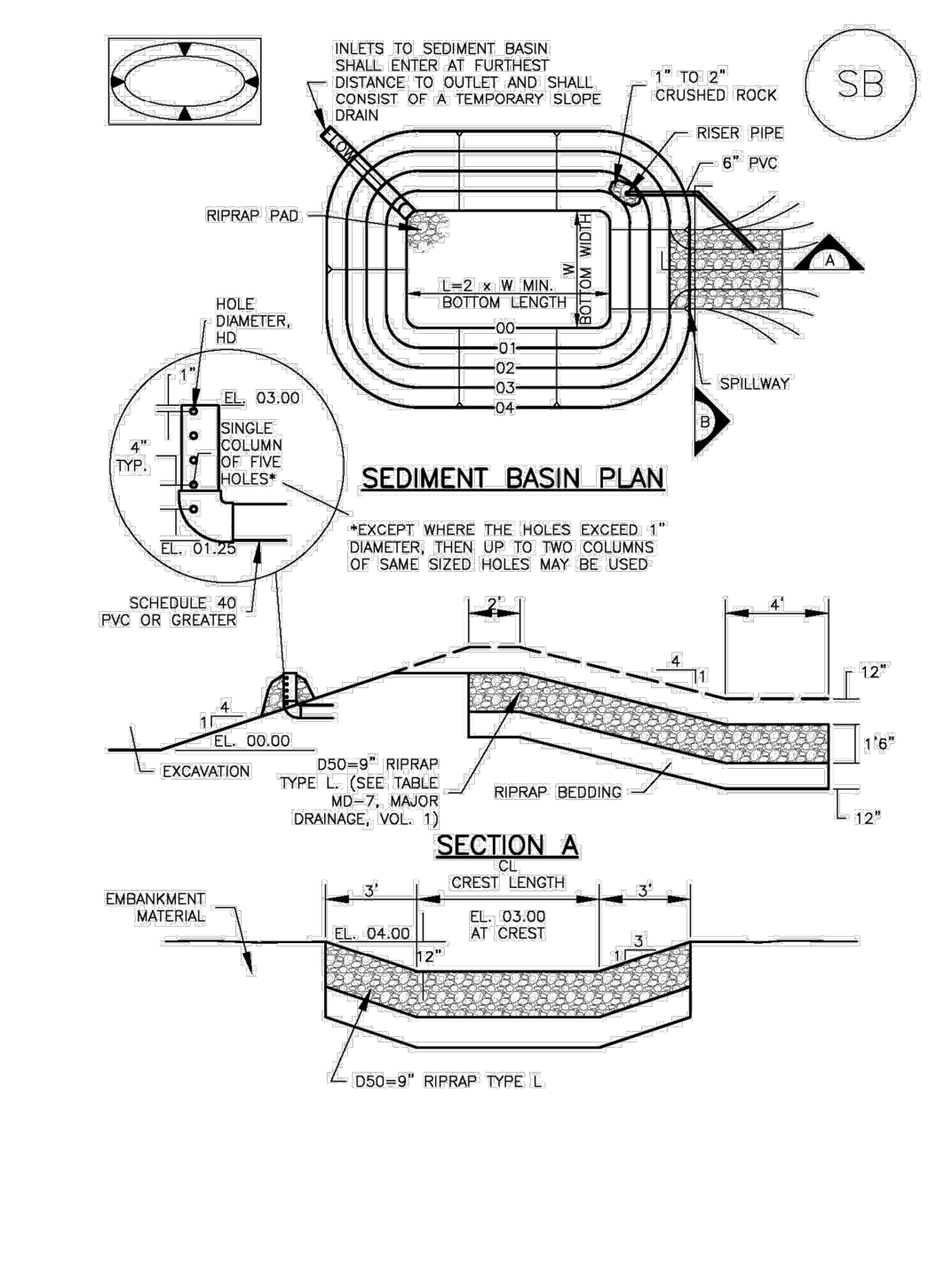
Rock Sock (RS) SC-5 November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC-8 Sediment Trap (ST)



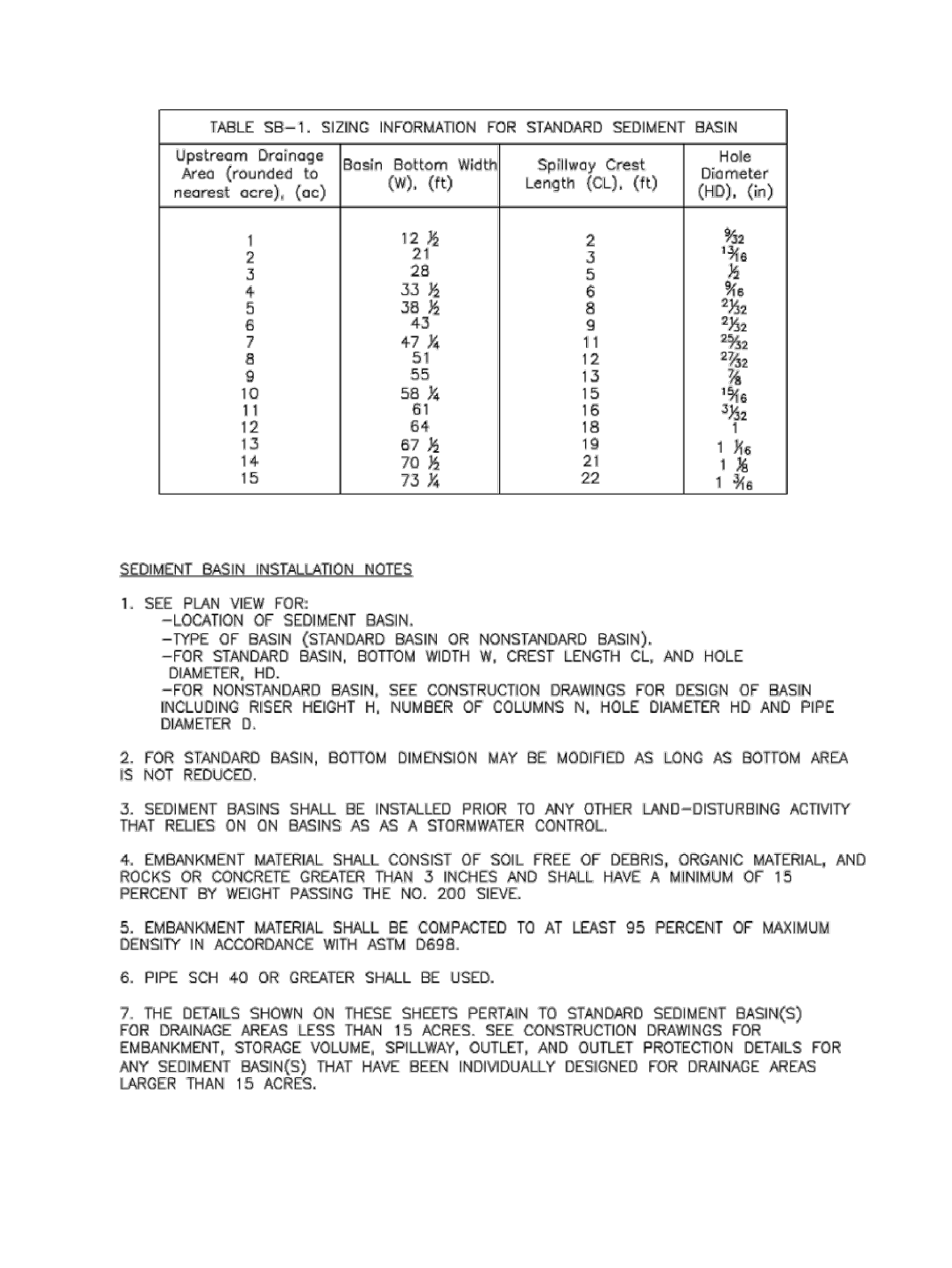
ST-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Sediment Basin (SB) SC-7



SB-5 August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SC-7 Sediment Basin (SB)



Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (E.I. TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- 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 Basin (SB) SC-7 August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

Sediment Trap (ST) SC-8

SEDIMENT TRAP INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADED LAND-DISTURBING ACTIVITIES.
- 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.
- SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50=12") TYP. SMALLER ROCK SIZE MAY BE ALLOWED FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.
- THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.
- 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

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN THE SEDIMENT DEPTH REACHES 1/3 OF THE HEIGHT OF THE RIPRAP OUTLET.
- SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- 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 ALBUQUA)

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 November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

REFERENCE DRAWINGS

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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

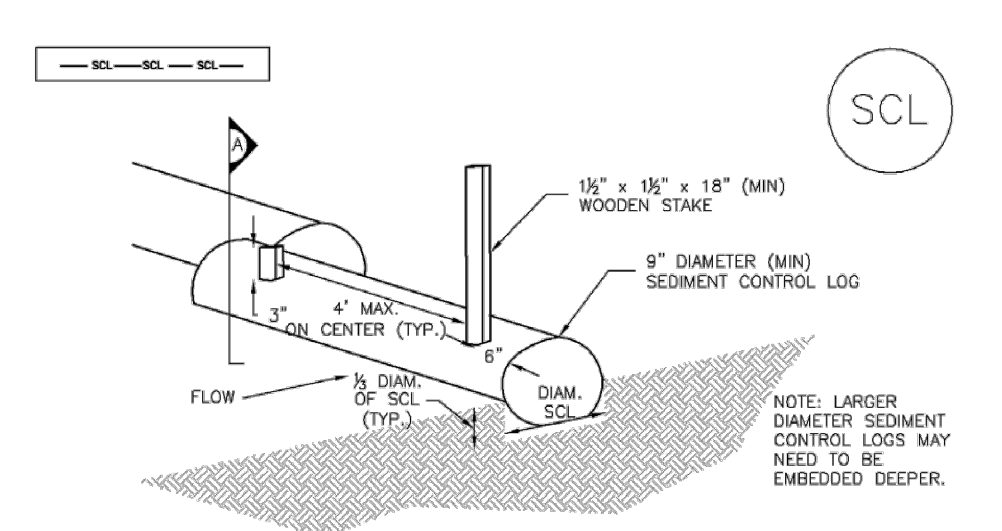
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

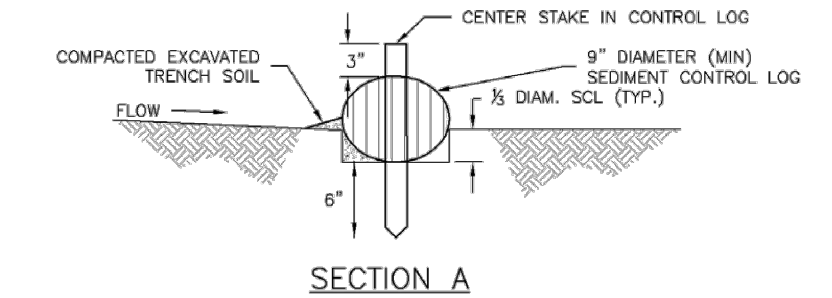
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Sediment Control Log (SCL) SC-2



SEDIMENT CONTROL LOG

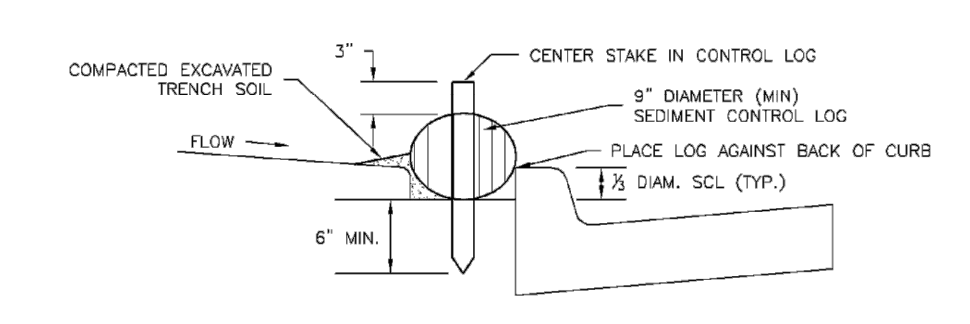


SEDIMENT CONTROL LOG JOINTS

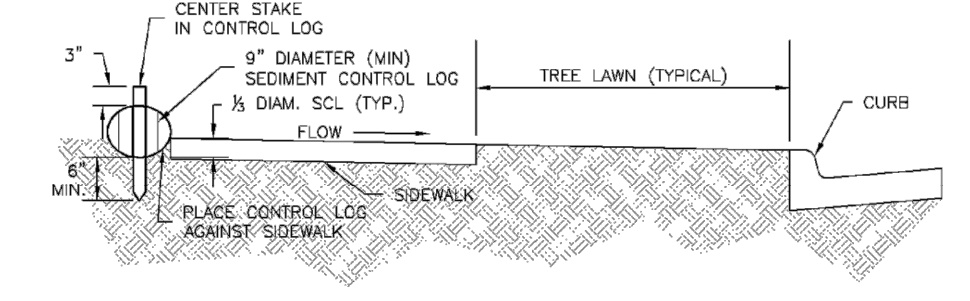
SCL-1. SEDIMENT CONTROL LOG

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-3

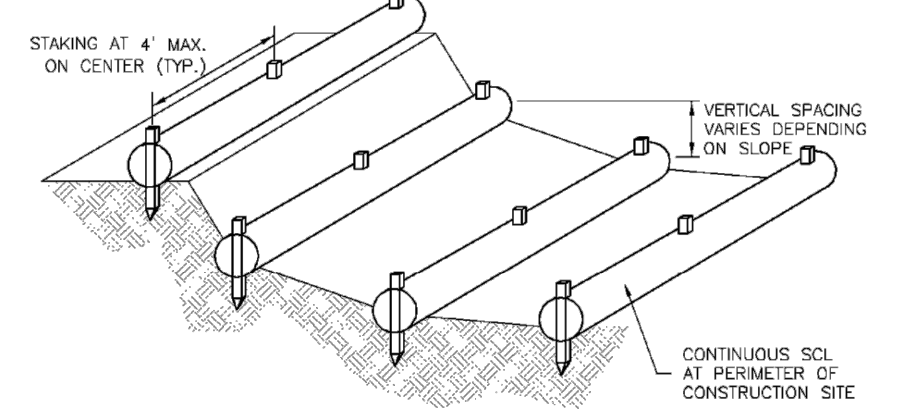
SC-2 Sediment Control Log (SCL)



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

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-4

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 UPGRADED LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NONKICK WEED SEEDS OR OBJECTS 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. IF IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 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 8" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN FROM INSTALLATION SHALL BE REPLACED.

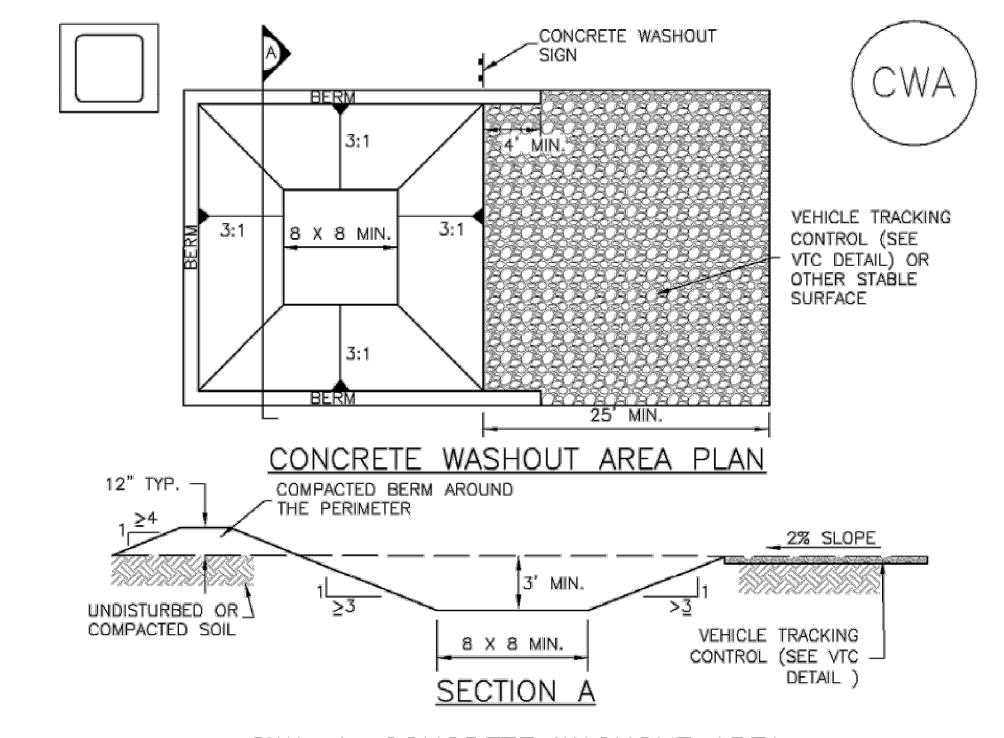
SEDIMENT CONTROL LOG MAINTENANCE NOTES

- 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 1/3 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 UFDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SCL-5

Concrete Washout Area (CWA) MM-1



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 100' 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 (1/8 MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINER 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" DEEP AND 3' WIDE 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 TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

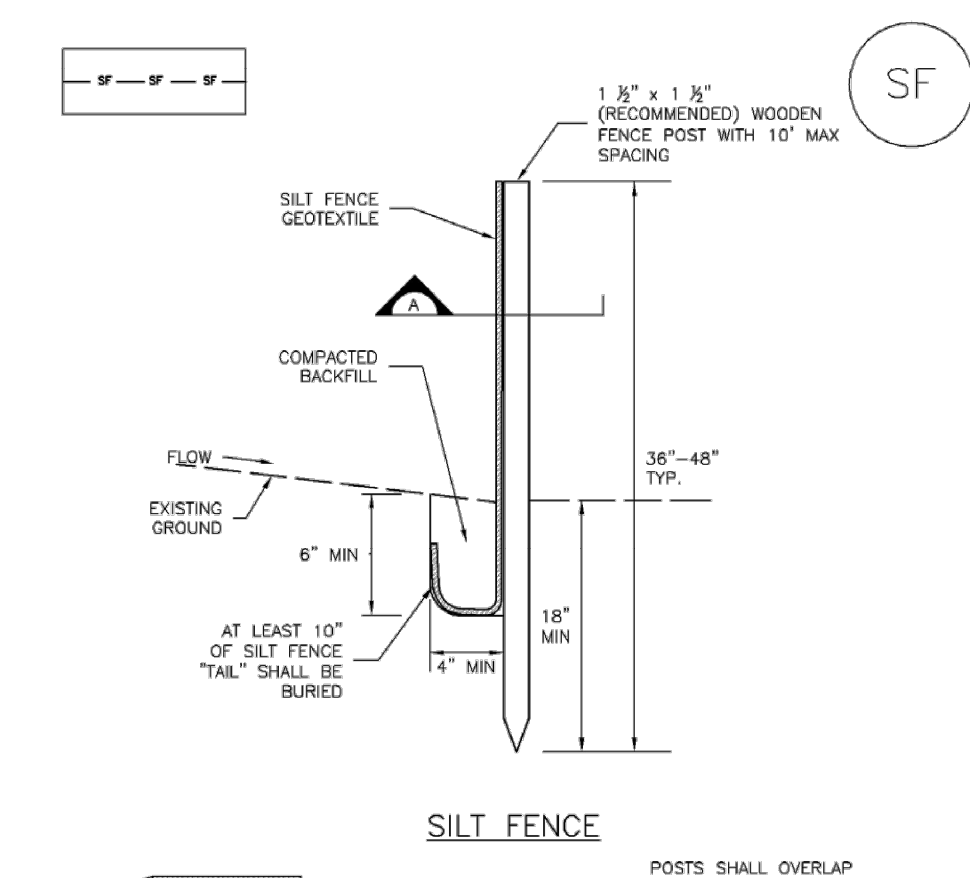
MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

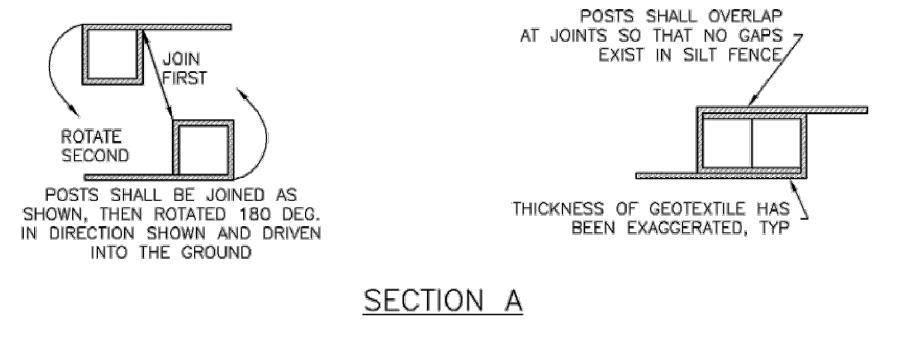
- 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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.
(Details ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UFDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Silt Fence (SF) SC-1



SILT FENCE



SECTION A

SF-1. SILT FENCE

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

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 (2-3 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 ROPS, GRADERS, SHOVELS, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "LUMPING JACK" OR BY WHEEL ROLLING. COMPACTOR 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 1/3.
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.
(Details ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UFDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-4

REFERENCE DRAWINGS

X:995 MDG22x34

Table with columns: No., DATE, DESCRIPTION REVISIONS, BY. Includes a section for COMPUTER FILE MANAGEMENT with file name R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\GECIECDT.dwg and plot date 5/4/2018 11:17 AM.

SHEET KEY

11



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LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, SCALE, DATE ISSUED, SHEET, PROJECT No. 18.995.001, MAY 2018, 15 OF 19, ECDDT03



Stockpile Management (SP) MM-2

STOCKPILE PROTECTION PLAN

SECTION A

SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILES.
 - TYPE OF STOCKPILE PROTECTION.
- 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 IMPVIOUS 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.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BRIDGES. 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).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER EROSION CONTROL MEASURES INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3

MM-2 Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

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

SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stockpile Management (SP) MM-2

SP-2. MATERIALS STAGING IN ROADWAY

MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

- 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.
- FEATURES MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
- MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
- POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
- SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
- FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR EXCAVATION MATERIALS.
- THIS FEATURE CAN BE USED FOR:
 - UTILITY REPAIRS.
 - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
 - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-5

MM-2 Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
- 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)

SP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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)

SURFACE ROUGHENING INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SURFACE ROUGHENING.
- 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.
- AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOO WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
- DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
- A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
- VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
- IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
- 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.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SR-3

EC-1 Surface Roughening (SR)

SURFACE ROUGHENING INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SURFACE ROUGHENING.
- 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.
- AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOO WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
- DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
- A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
- VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
- IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
- 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.

SR-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stabilized Staging Area (SSA) SM-6

SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF STAGING AREA(S).
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING AS NEEDED.

STABILIZED STAGING AREA MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- 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 BOULDER COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

REFERENCE DRAWINGS

X-995 MDG22x34

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET	ECDT04
CHECKED BY: DRK	VERT.	16 OF 19	



Typical Curb and Gutter Details
Standard Drawing

DATE APPROVED: 8/11/11
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 12/8/15
FILE NAME: SD_2-20

SCALE: NOT TO SCALE

Typical Cross Pan Layout Detail
Standard Drawing

DATE APPROVED: 8/11/11
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 12/8/15
FILE NAME: SD_2-26

SCALE: NOT TO SCALE

Pedestrian Intersection Ramp Detail
Standard Drawing

DATE APPROVED: 9/16/10
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/10/04
FILE NAME: SD_2-40

SCALE: NOT TO SCALE

Pedestrian Ramp Notes

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
- RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 1:21 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADIES AND/OR ALIGNMENTS.
- DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING AREA SHALL BE PREFABRICATED, REDDISH INTERNALLY COLORED TRUNCATED-DOME PAVERS. THERMOPLASTIC TRUNCATED DOMES WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK, 4' MINIMUM.
- ALL RAMPERS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPERS WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
- AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/BOXES, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREA.

GENERAL NOTES

- WHERE THE 1'-6" FLARED SIDES OF A PERPENDICULAR CURB RAMP (RAMP) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10%.
- PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPERS OR DRIPSPREAD CURBERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPERS.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPERS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

Pedestrian Intersection Ramp
Standard Drawing

DATE APPROVED: 7/9/09
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 12/8/15
FILE NAME: SD_2-41

SCALE: NOT TO SCALE

TRUNCATED DOME DETAILS

DOME SPACING

1.6" MIN - 2.5" MAX (EQUAL BOTH DIRECTIONS)

ELEVATION VIEW

THE TOP DIAMETER OF THE TRUNCATED DOMES SHALL BE 50%-60% OF THE BASE DIAMETER.

0.9"-1.4"

Truncated Dome Details
Standard Drawing

DATE APPROVED: 1/1/08
DESIGNED BY: John A. McCarty
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/25/15
FILE NAME: SD_2-42

SCALE: NOT TO SCALE

Parallel Pedestrian Ramp Detail
Standard Drawing

DATE APPROVED: 8/11/11
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 12/8/15
FILE NAME: SD_2-50

SCALE: NOT TO SCALE

Curb Opening with Drainage Chose Detail 2 of 2
Standard Drawing

DATE APPROVED: 8/11/11
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/10/04
FILE NAME: SD_3-25A

SCALE: NOT TO SCALE

Desilting Basin Outlet
Standard Drawing

DATE APPROVED: 8/11/11
DESIGNED BY: André P. Brackin
DEPARTMENT OF TRANSPORTATION

REVISION DATE: 11/10/04
FILE NAME: SD_3-30

SCALE: NOT TO SCALE

REFERENCE DRAWINGS

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LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

DETAILS

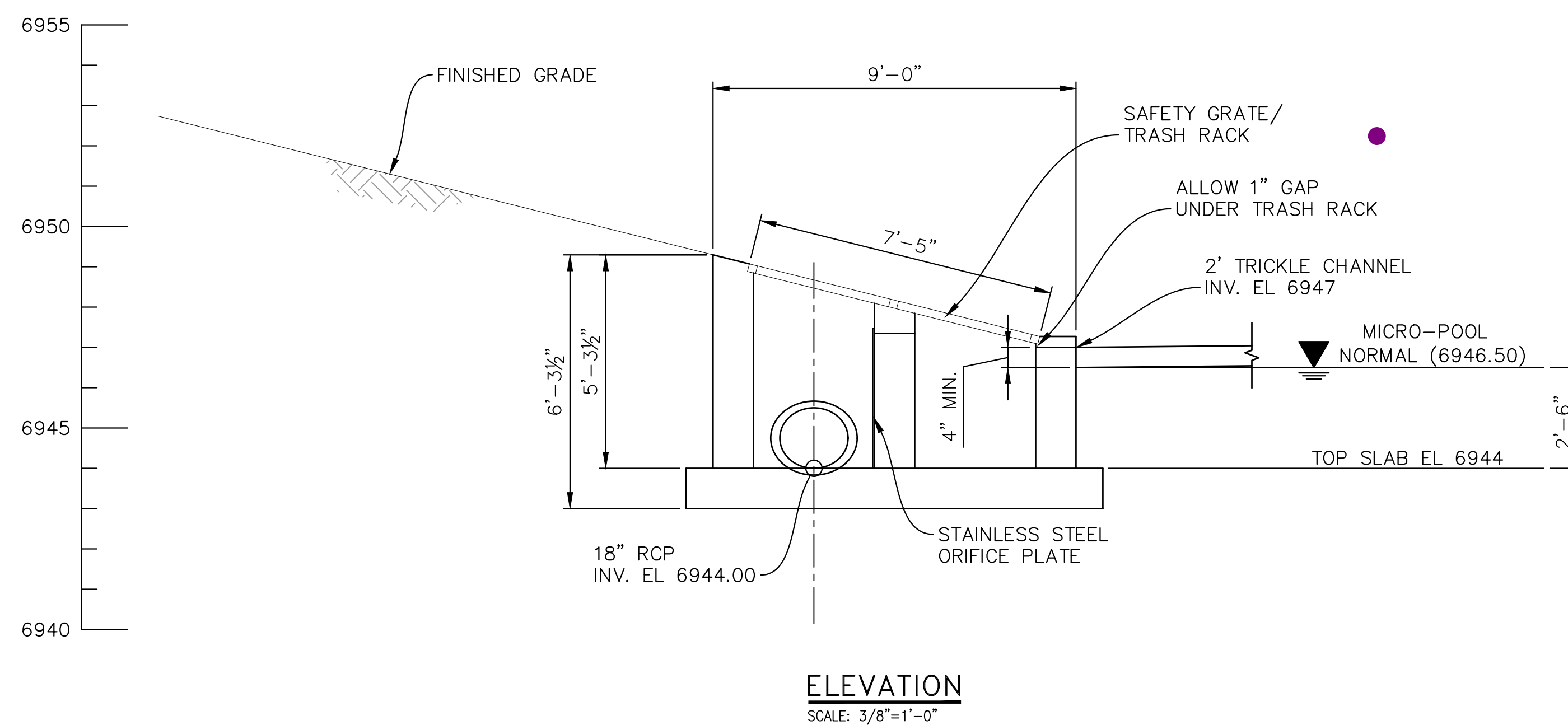
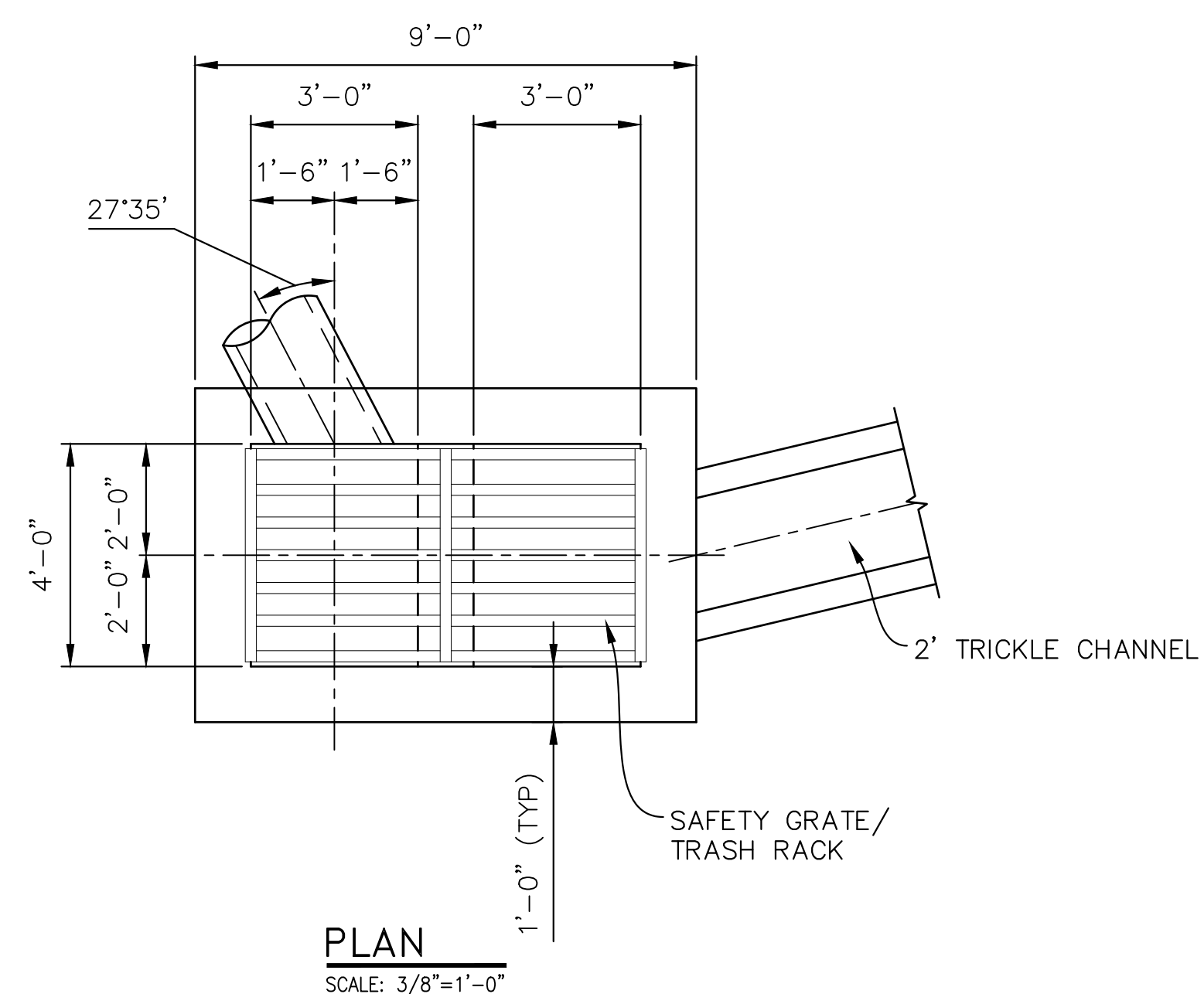
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

DESIGNED BY: ACR
DRAWN BY: ACR
CHECKED BY: DRK

SCALE: HORIZ.
VERT.

DATE ISSUED: MAY 2018
SHEET 17 OF 19

DRAWING No. DT01



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LIBERTY TREE ACADEMY

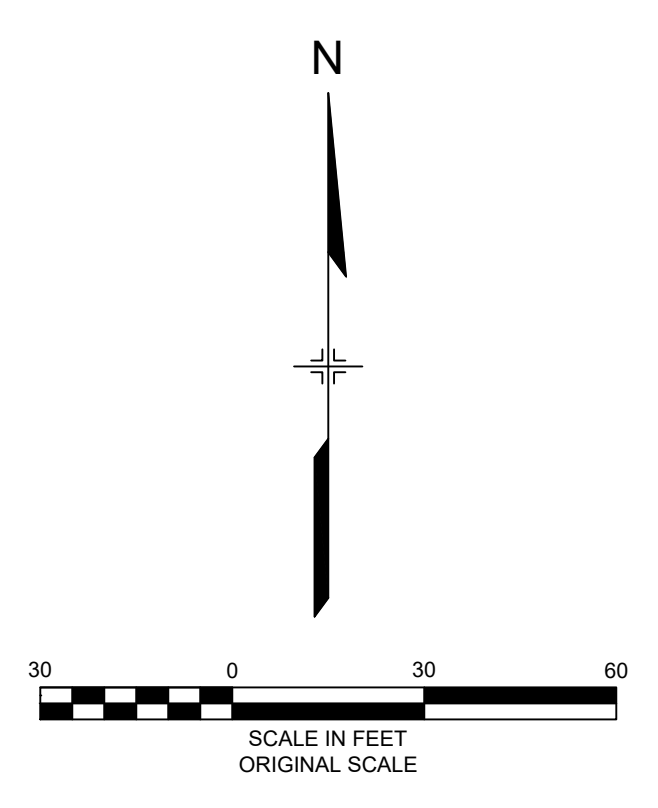
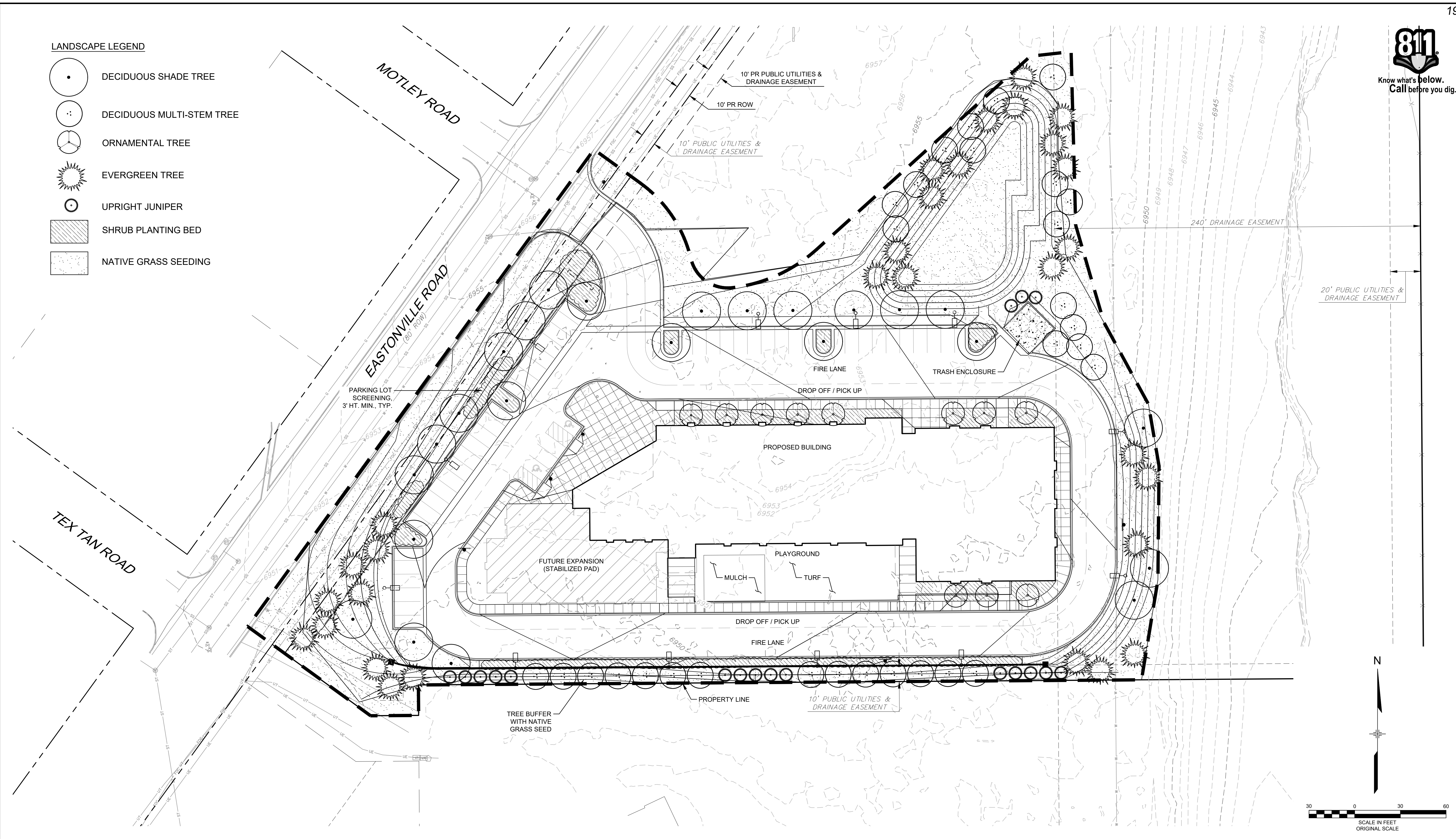
TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

POND OUTLET STRUCTURE DETAILS

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.:
DRAWN BY: ACR	HORIZ.	SHEET: 18 OF 19	SDT01
CHECKED BY: DRK	VERT.		



- LANDSCAPE LEGEND**
- DECIDUOUS SHADE TREE
 - DECIDUOUS MULTI-STEM TREE
 - ORNAMENTAL TREE
 - EVERGREEN TREE
 - UPRIGHT JUNIPER
 - SHRUB PLANTING BED
 - NATIVE GRASS SEEDING



REFERENCE DRAWINGS			
X:995-MD:32x34			
X:995-PR:BASE			
X:995-EX:BASE			
X:995-EX:MAP			
X:995-PR:GRAD			
X:995-PR:LANDSCAPE			
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REVISIONS			
COMPUTER FILE MANAGEMENT			
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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

LANDSCAPE PLAN

DESIGNED BY: ACR	SCALE:	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ.	SHEET 19 OF 19	LS01
CHECKED BY: DRK	VERT.		

Markup Summary

dsdrice (13)

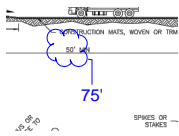


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Author: dsdrice
Date: 6/14/2018 10:04:07 AM
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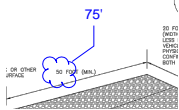


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Author: dsdrice
Date: 6/14/2018 10:07:20 AM
Color: ■



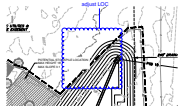
Subject: Cloud+
Page Label: [13] ECDT01 ECDT01
Author: dsdrice
Date: 6/14/2018 10:20:19 AM
Color: ■

75'



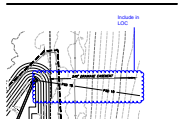
Subject: Cloud+
Page Label: [13] ECDT01 ECDT01
Author: dsdrice
Date: 6/14/2018 10:21:03 AM
Color: ■

75'



Subject: Cloud+
Page Label: [12] EC02 EC02
Author: dsdrice
Date: 6/14/2018 10:21:36 AM
Color: ■

adjust LOC



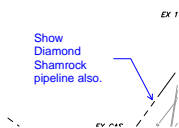
Subject: Cloud+
Page Label: [12] EC02 EC02
Author: dsdrice
Date: 6/14/2018 10:22:28 AM
Color: ■

Include in LOC



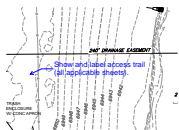
Subject: Callout
Page Label: [8] SS01 SS01
Author: dsdrice
Date: 6/14/2018 12:03:03 PM
Color: ■

Show Diamond Shamrock pipeline also.



Subject: Callout
Page Label: [7] UT01 UT01
Author: dsdrice
Date: 6/14/2018 12:04:08 PM
Color: ■

Show Diamond Shamrock pipeline also.



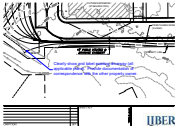
Subject: Callout
Page Label: [6] GR01 GR01
Author: dsdrice
Date: 6/14/2018 12:05:16 PM
Color: ■

Show and label access trail (all applicable sheets).



Subject: Text Box
Page Label: [6] GR01 GR01
Author: dsdrice
Date: 6/14/2018 12:06:43 PM
Color: ■

Show channel cross-section locations and approximate 100-year water surface and depth (all applicable plans).



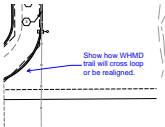
Subject: Callout
Page Label: [6] GR01 GR01
Author: dsdrice
Date: 6/14/2018 12:09:30 PM
Color: ■

Clearly show and label existing driveway (all applicable plans). Provide documentation of correspondence with the other property owner.

PPR-18-023

Subject: Text Box
Page Label: [1] TS01 TS01
Author: dsdrice
Date: 6/14/2018 2:44:05 PM
Color: ■

PPR-18-023



Subject: Callout
Page Label: [4] SP01 SP01
Author: dsdrice
Date: 6/14/2018 2:53:31 PM
Color: ■

Show how WHMD trail will cross loop or be realigned.