



LIBERTY TREE ACADEMY CONSTRUCTION DOCUMENTS

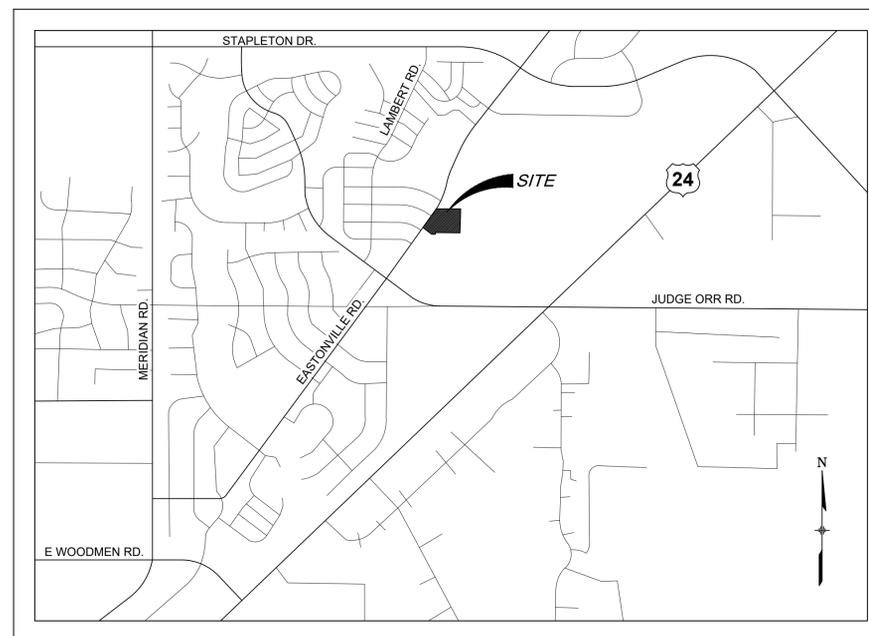
TOWN OF PEYTON, EL PASO COUNTY FINAL FOR CONSTRUCTION JUNE 2018

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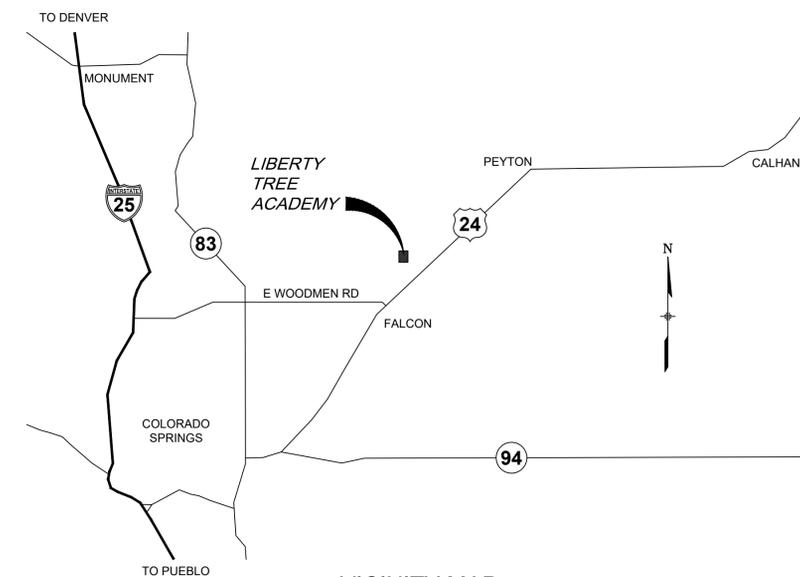
LAND USE SUMMARY

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



LOCATION MAP

SCALE: N.T.S.



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

CIVIL ENGINEER

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0200
CONTACT: DAVE KLINE, P.E., PTOE
DAVE_KLINE@MATRIXDESIGNGROUP.COM

LANDSCAPE ARCHITECT

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0200
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

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

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X:995 MDG22x34				
COMPUTER FILE MANAGEMENT				
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\TS01.dwg				
CTB FILE: ----				
PLOT DATE: July 3, 2018 12:27:58 PM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

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

TITLE SHEET

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	VERT.	1	OF 29
CHECKED BY:	DRK	NA	NA		TS01

Add "PCD File No. PPR-18-023"
Unresolved.



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: 7/3/2018 12:28 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

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

GENERAL NOTES

DESIGNED BY: ACR	SCALE:	DATE ISSUED: JUNE 2018	DRAWING No. GN01
DRAWN BY: ACR	HORIZ. NA	SHEET 2 OF 28	
CHECKED BY: DRK	VERT. NA		



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			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\LA01.dwg			
CTB FILE: ---			
PLOT DATE: 7/3/2018 12:28 PM			
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SHEET KEY

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LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

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:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. NA	SHEET	3 OF 28	LA01
CHECKED BY:	DRK	VERT. NA			



CONSTRUCTION KEY NOTES:

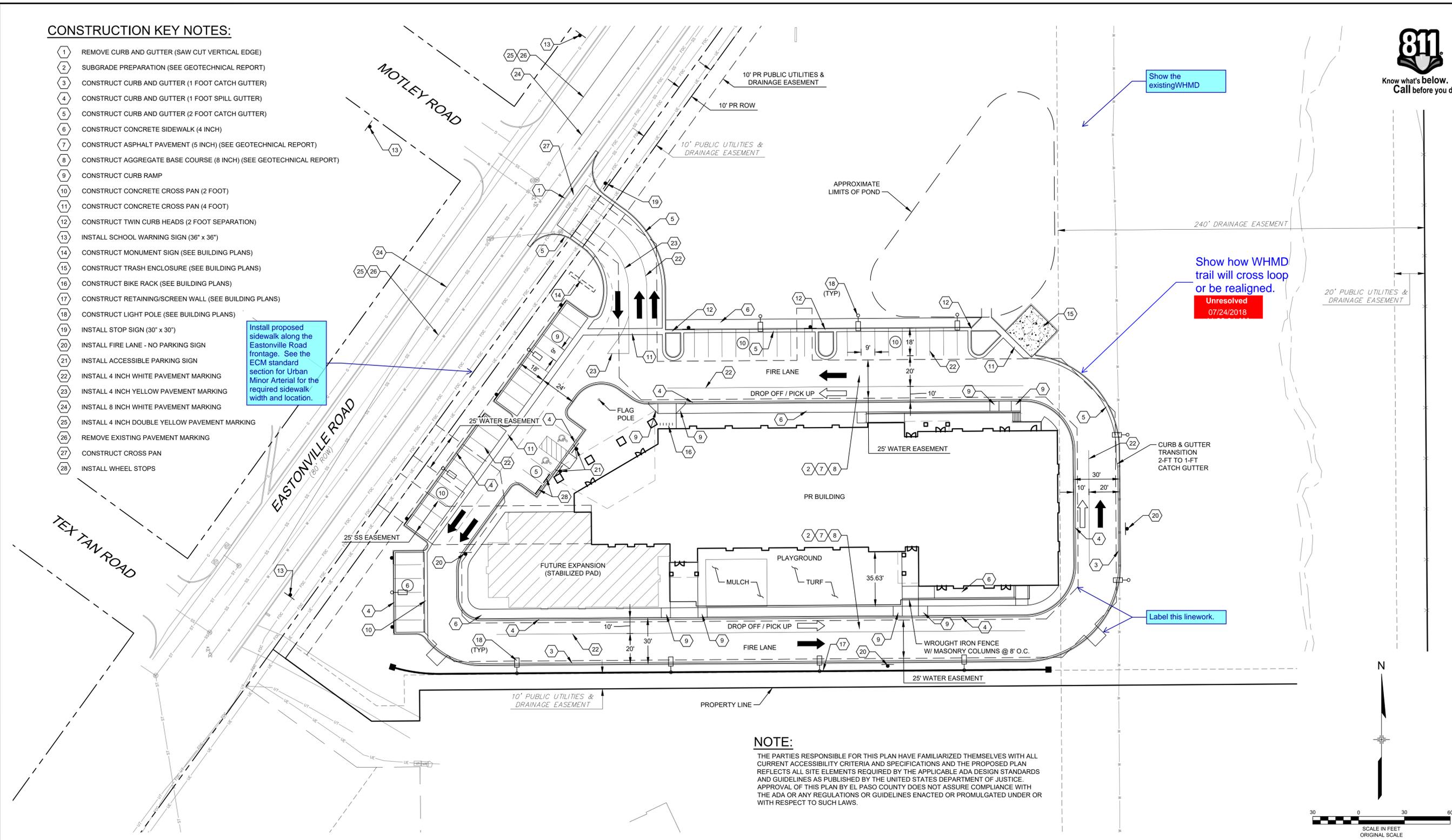
- 1 REMOVE CURB AND GUTTER (SAW CUT VERTICAL EDGE)
- 2 SUBGRADE PREPARATION (SEE GEOTECHNICAL REPORT)
- 3 CONSTRUCT CURB AND GUTTER (1 FOOT CATCH GUTTER)
- 4 CONSTRUCT CURB AND GUTTER (1 FOOT SPILL GUTTER)
- 5 CONSTRUCT CURB AND GUTTER (2 FOOT CATCH GUTTER)
- 6 CONSTRUCT CONCRETE SIDEWALK (4 INCH)
- 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 INSTALL SCHOOL WARNING SIGN (36" x 36")
- 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 (SEE BUILDING PLANS)
- 18 CONSTRUCT LIGHT POLE (SEE BUILDING PLANS)
- 19 INSTALL STOP SIGN (30" x 30")
- 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
- 24 INSTALL 8 INCH WHITE PAVEMENT MARKING
- 25 INSTALL 4 INCH DOUBLE YELLOW PAVEMENT MARKING
- 26 REMOVE EXISTING PAVEMENT MARKING
- 27 CONSTRUCT CROSS PAN
- 28 INSTALL WHEEL STOPS

Install proposed sidewalk along the Eastonville Road frontage. See the ECM standard section for Urban Minor Arterial for the required sidewalk width and location.

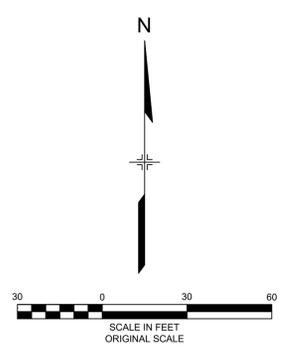
Show the existing WHMD

Show how WHMD trail will cross loop or be realigned.
Unresolved
07/24/2018

Label this linework.



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	NO.	DATE	DESCRIPTION REVISIONS	BY
X:995-MD-022x34				
X:995-PR-BASE				
X:995-EX-BASE				
X:995-EX-MAP				
X:995-PR-UTIL				
LTA OVERALL FIRST FLOOR PLAN				

COMPUTER FILE MANAGEMENT
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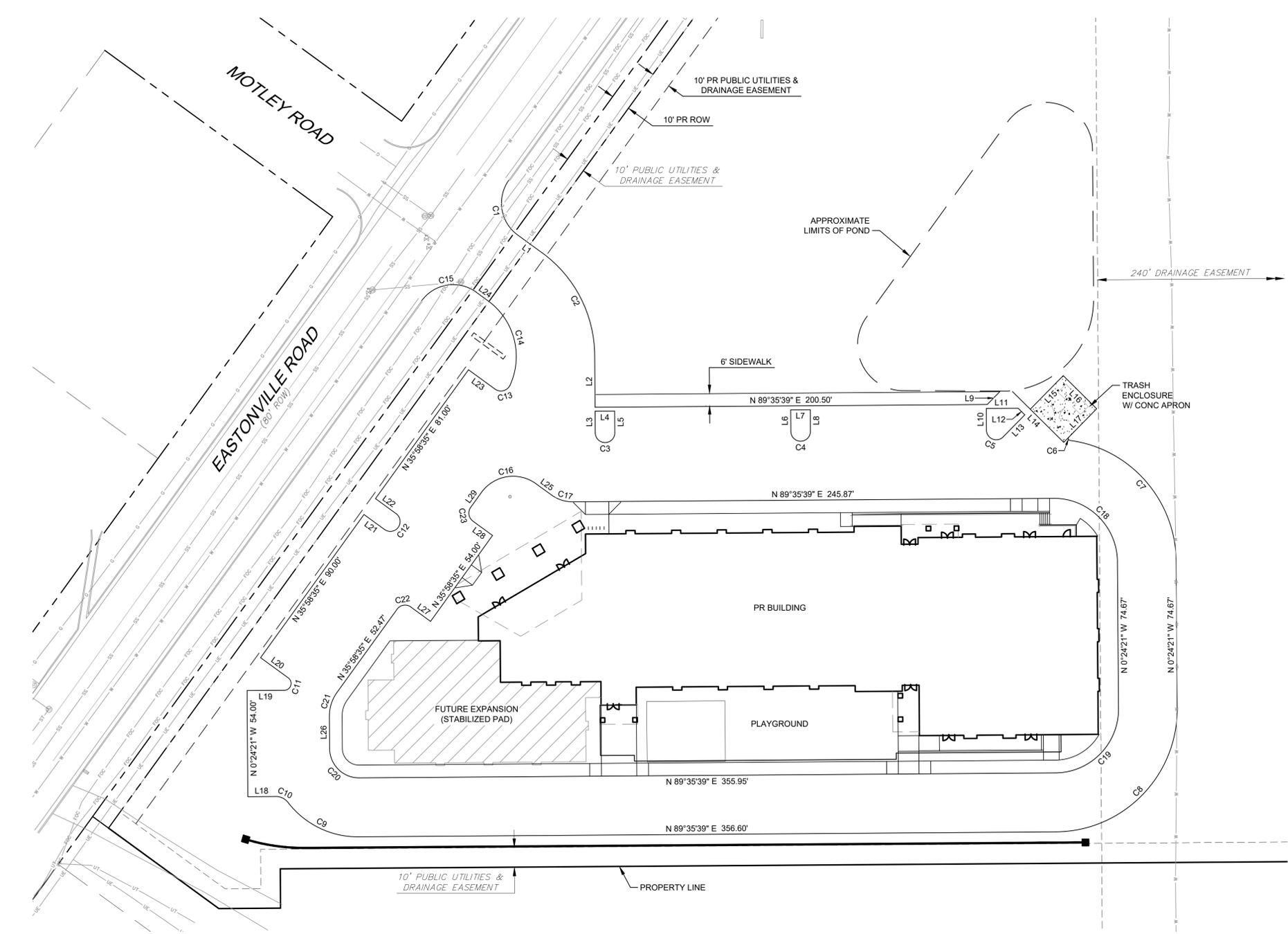
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 TOWN OF PEYTON, EL PASO COUNTY
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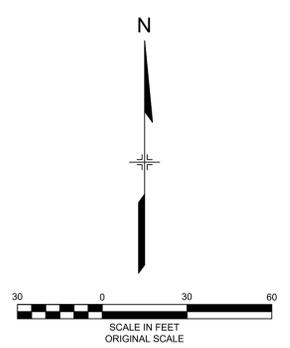
SITE PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: JUNE 2018	DRAWING No. SP01
DRAWN BY: ACR	HORIZ. VERT. NA	SHEET 4 OF 29	
CHECKED BY: DRK			



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	14.23'	S 89°35'39" W
L19	19.00'	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	10.01'	N 54°20'05" W
L26	16.58'	N 0°24'21" W
L27	12.45'	N 54°01'25" W
L28	12.45'	N 54°01'25" W
L29	9.31'	N 35°58'35" E

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'



REFERENCE DRAWINGS
X:995-MD-022x34
X:995-PR-BASE
X:995-EX-BASE
X:995-EX-MAP
LTA OVERALL FIRST FLOOR PLAN 6-7-18

No.	DATE	DESCRIPTION	BY
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CTB FILE: ----			
PLOT DATE: 7/3/2018 12:28 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY
1

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

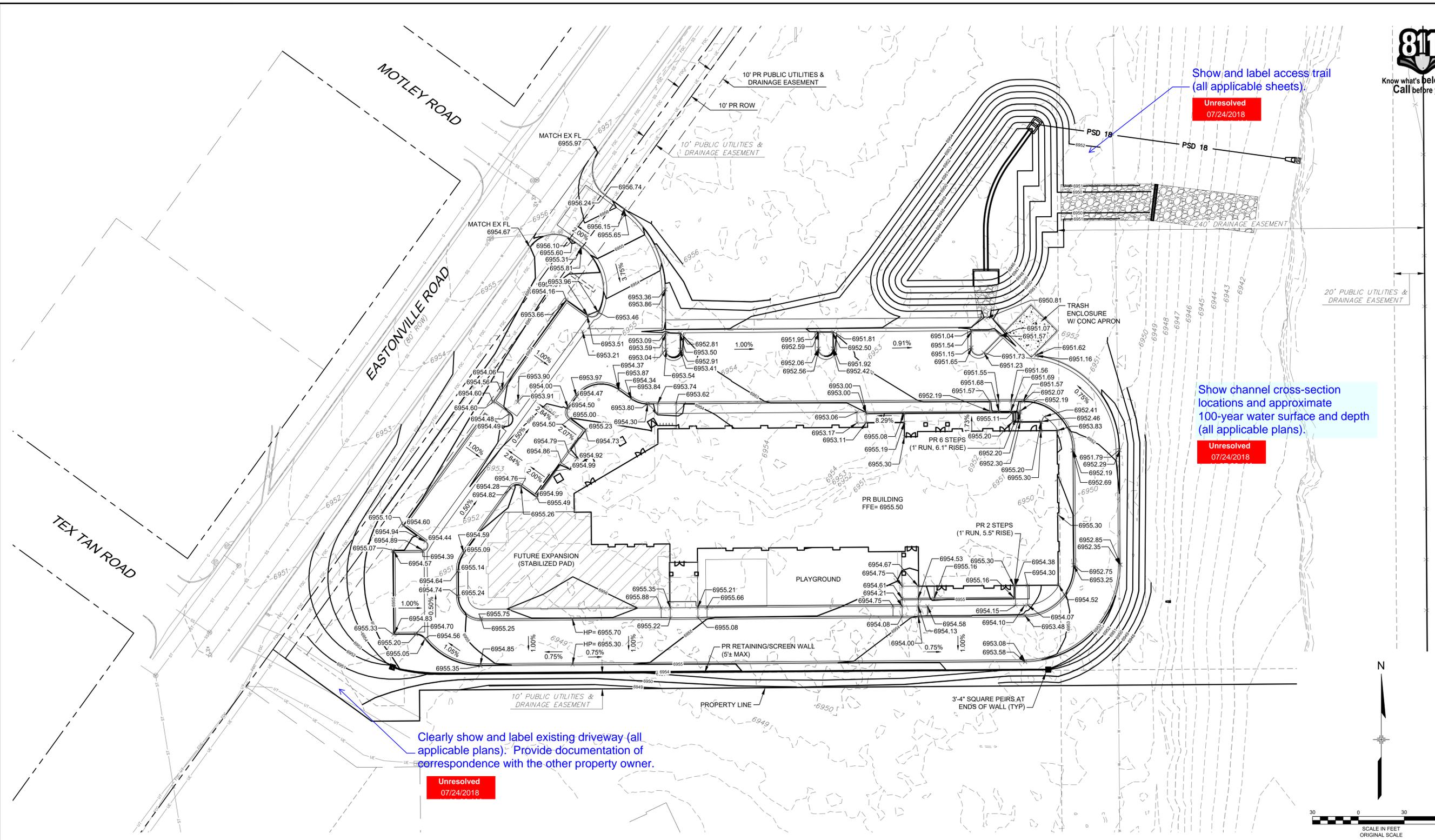
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL PLAN

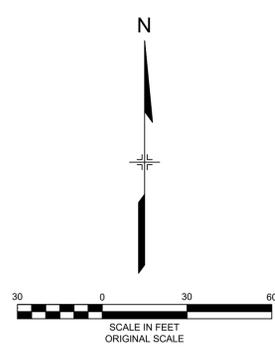
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DRAWN BY: ACR	HORIZ. 1" = 30'	SHEET 5 OF 29	
CHECKED BY: DRK	VERT. NA		



Show and label access trail (all applicable sheets).
Unresolved 07/24/2018

Show channel cross-section locations and approximate 100-year water surface and depth (all applicable plans).
Unresolved 07/24/2018

Clearly show and label existing driveway (all applicable plans). Provide documentation of correspondence with the other property owner.
Unresolved 07/24/2018



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X:995-MD322x34				
X:995-PR-BASE				
X:995-EX-BASE				
X:995-EX-MAP				
X:995-PR-UTIL				
X:995-PR-GRAD				
LTA OVERALL FIRST FLOOR PLAN				

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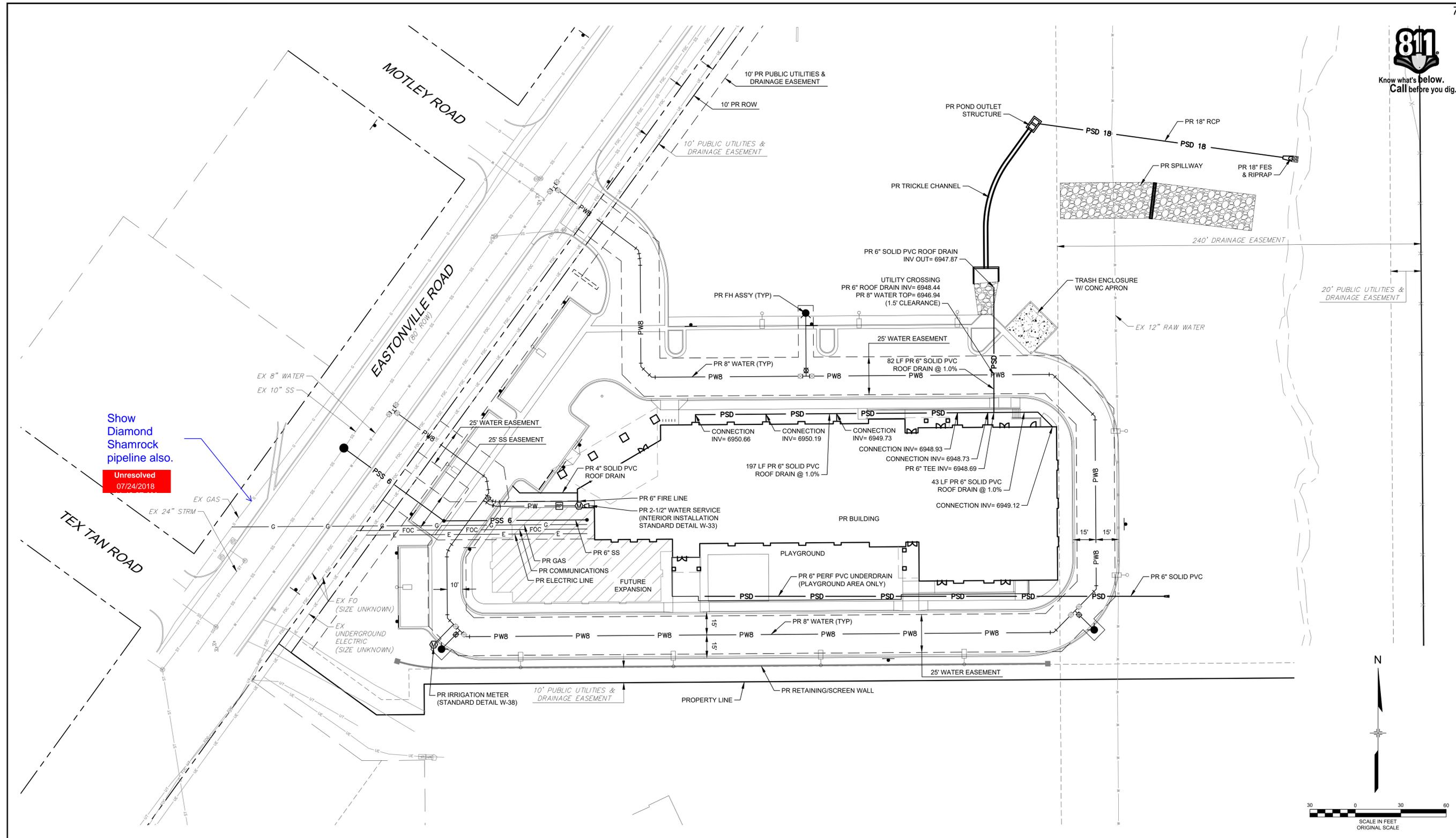
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

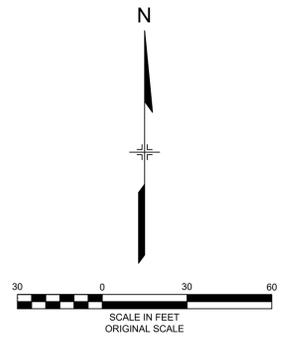
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

GRADING PLAN

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. 1" = 30'	SHEET	6 OF 29	GR01
CHECKED BY:	DRK	VERT. NA			



Show Diamond Shamrock pipeline also.
Unresolved 07/24/2018



NO.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\UT01.dwg			
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REVISIONS			

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REVISIONS			

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

LIBERTY TREE ACADEMY

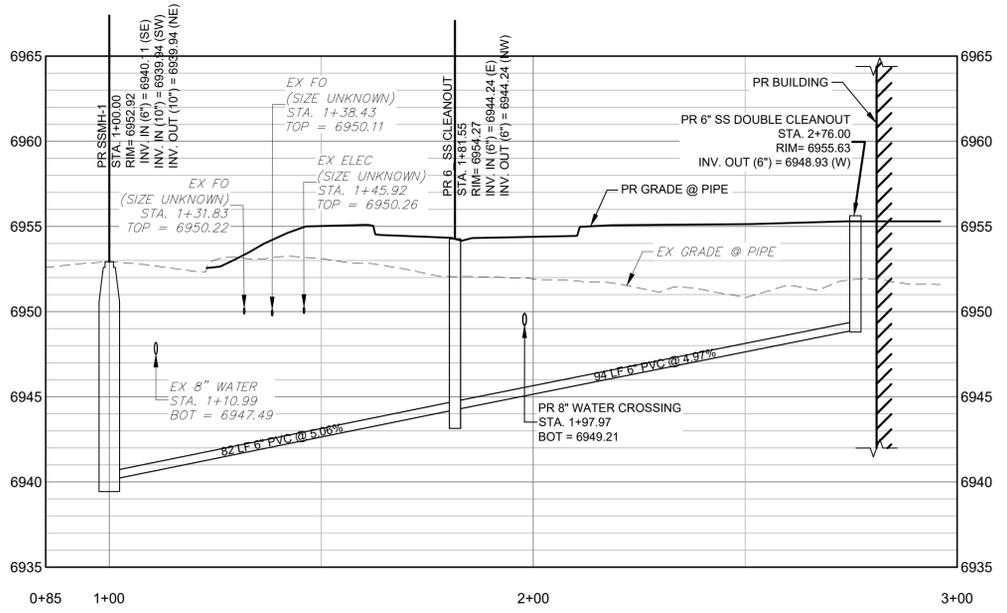
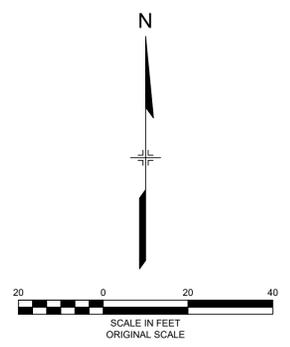
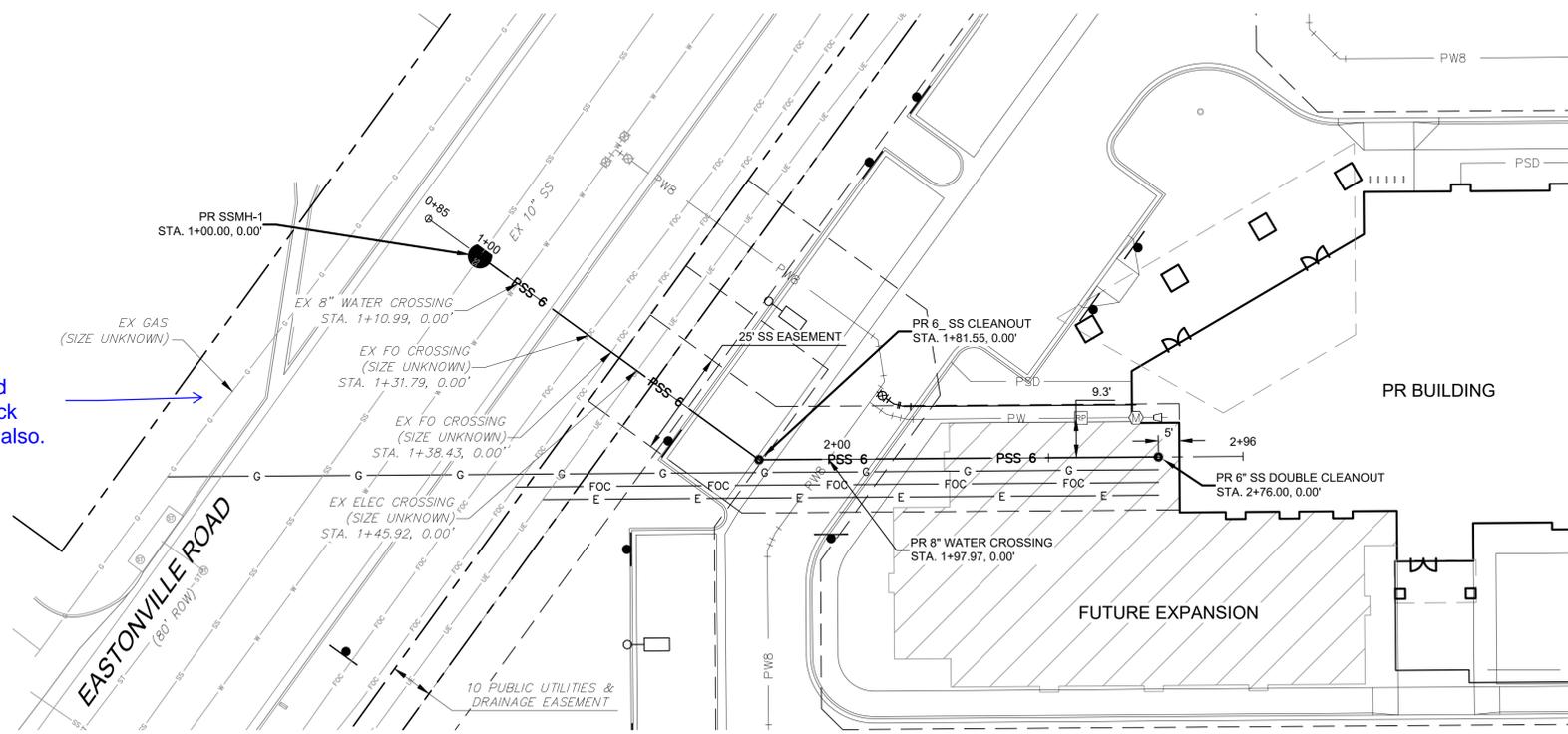
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

OVERALL UTILITY PLAN

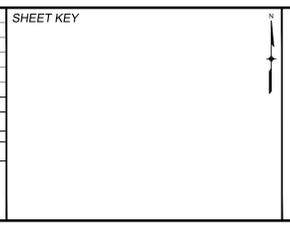
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DRAWN BY: ACR	HORIZ. NA	SHEET 7 OF 29	
CHECKED BY: DRK	VERT. NA		



Show Diamond Shamrock pipeline also.
 Unresolved 07/24/2018



NO.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
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SEAL

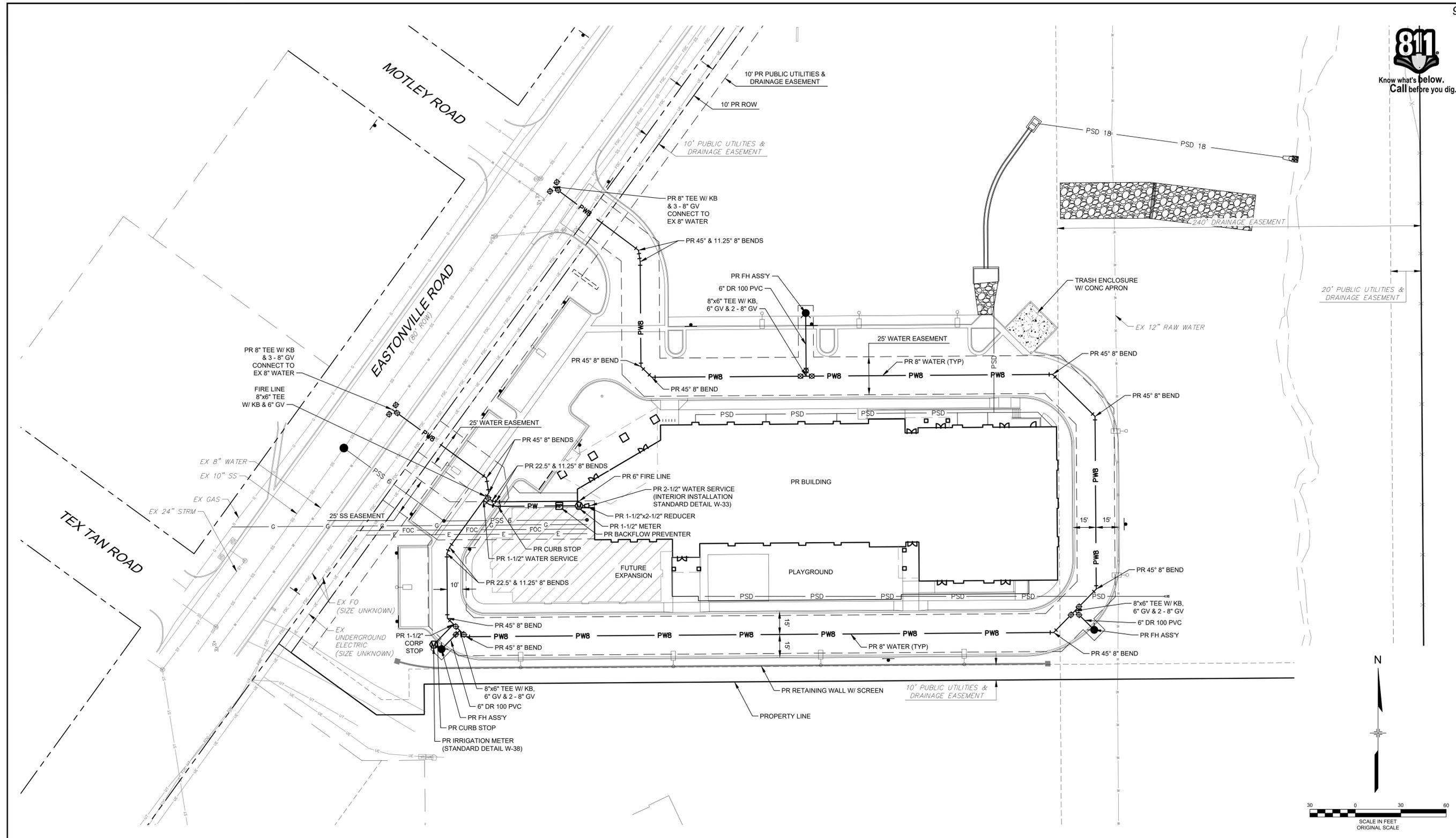
FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
 CONSTRUCTION DOCUMENTS

SANITARY SEWER PLAN & PROFILE

DESIGNED BY: ACR	SCALE: 1" = 20'	DATE ISSUED: JUNE 2018	DRAWING No.
DRAWN BY: ACR	HORIZ. 1" = 20'		
CHECKED BY: DRK	VERT. 1" = 5'	SHEET 8 OF 28	SS01



NO.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
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PLOT DATE: 7/3/2018 12:29 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

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PREPARED BY:
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AN EMPLOYEE-OWNED COMPANY

SEAL

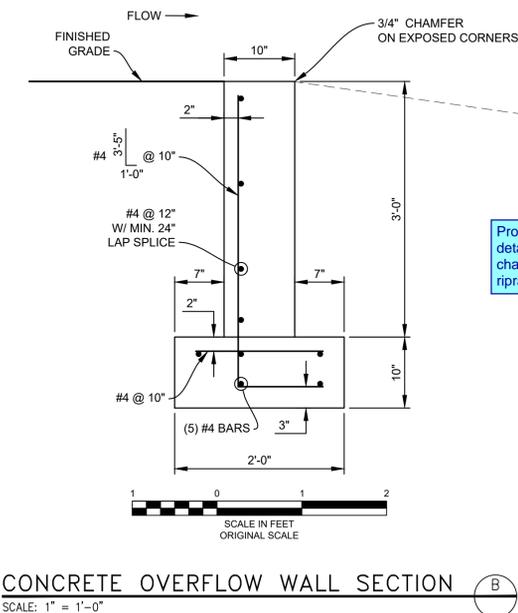
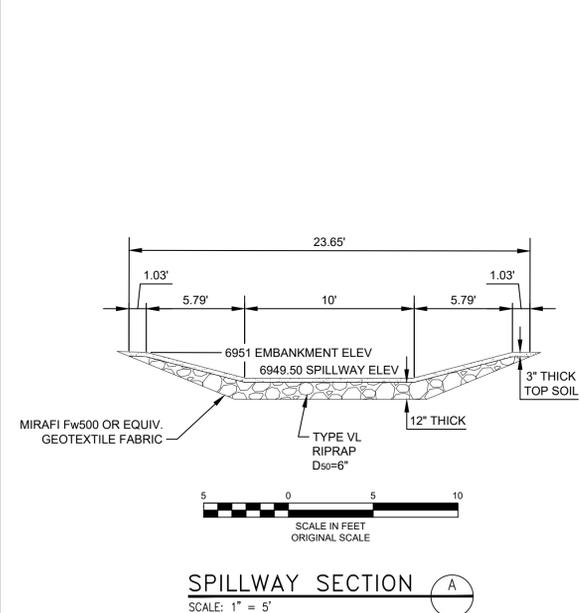
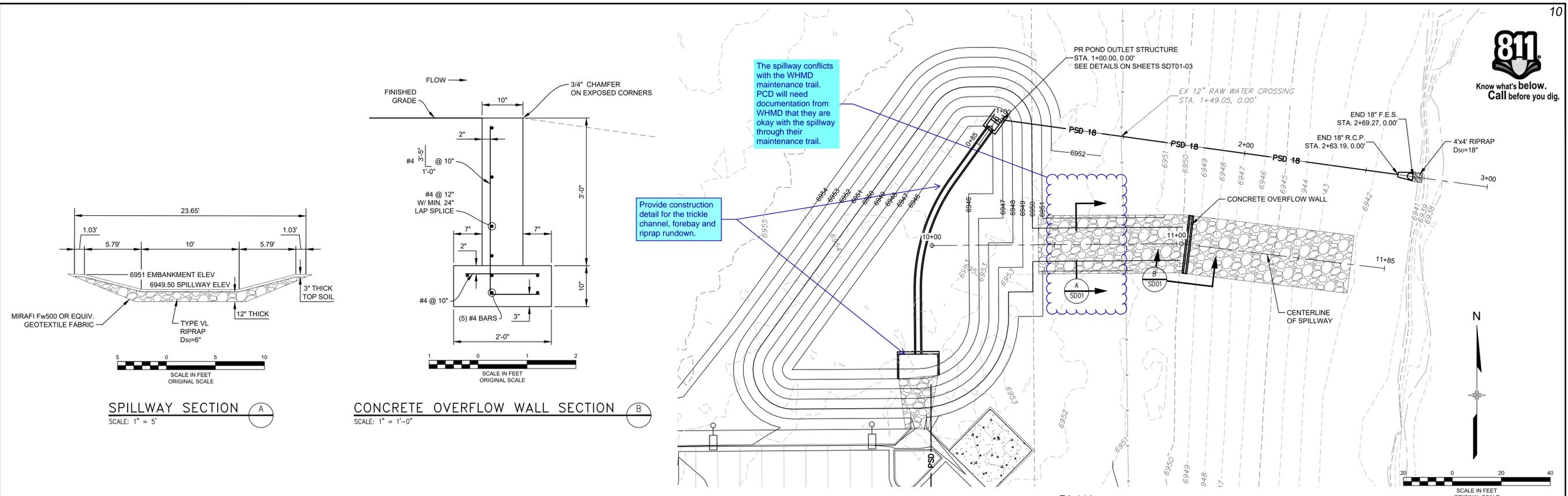
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

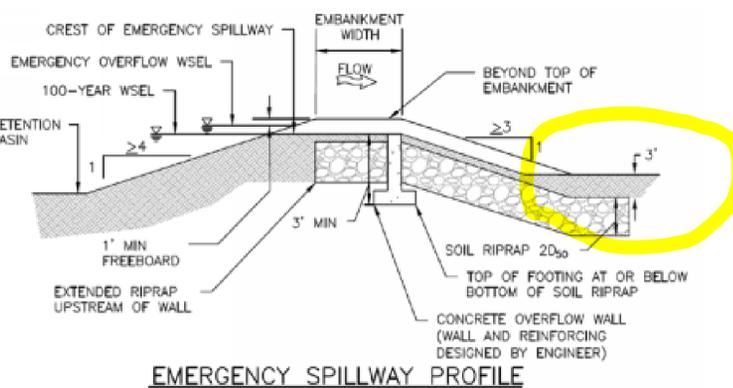
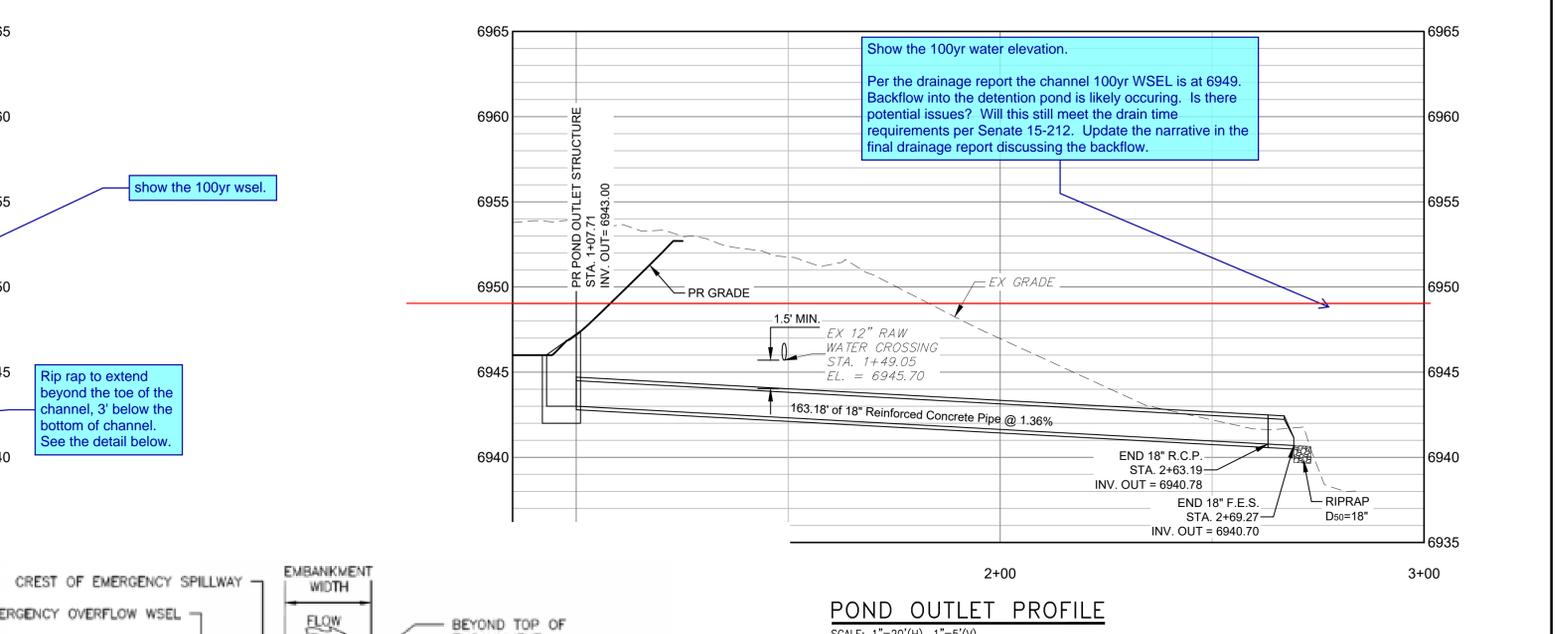
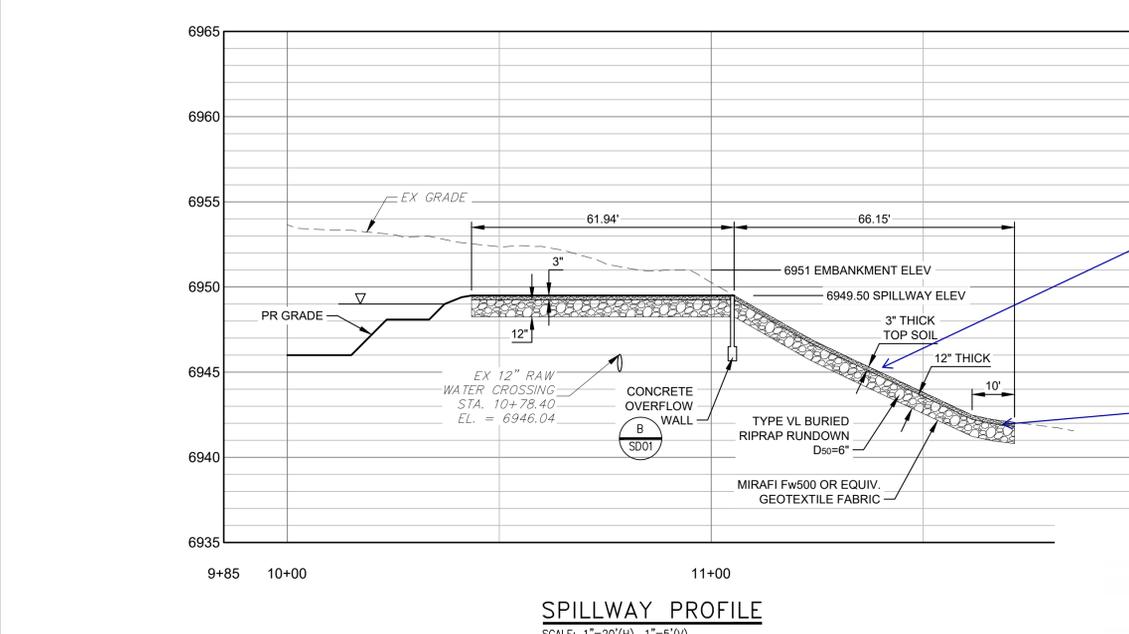
SITE WATER MAIN PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: JUNE 2018	DRAWING No. WT01
DRAWN BY: ACR	HORIZ. NA	SHEET 9 OF 29	
CHECKED BY: DRK	VERT. NA		



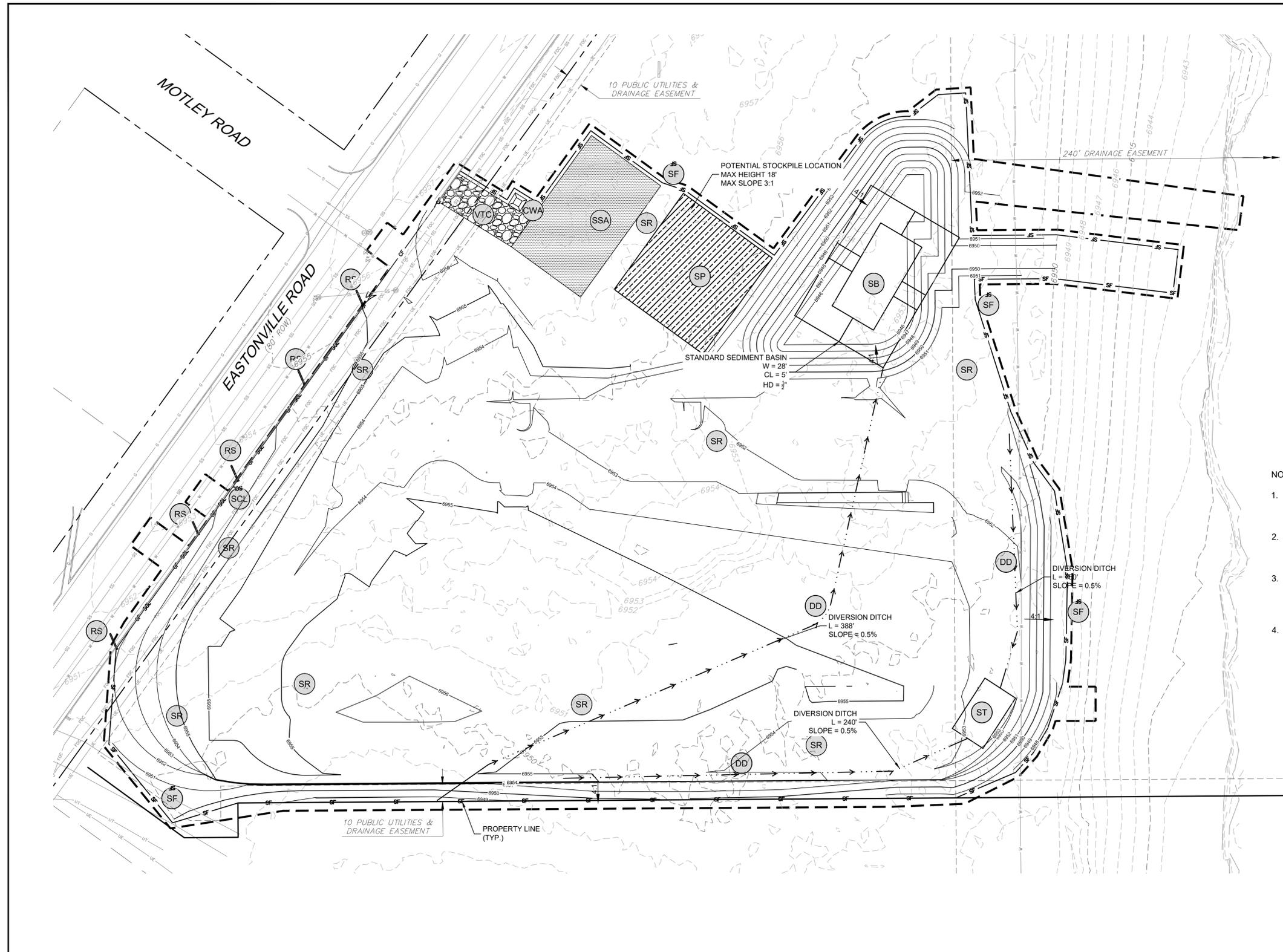
The spillway conflicts with the WHMD maintenance trail. PCD will need documentation from WHMD that they are okay with the spillway through their maintenance trail.

Provide construction detail for the trickle channel, forebay and riprap rundown.



NO.	DATE	DESCRIPTION	BY
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PLOT DATE: 7/3/2018 12:29 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

		LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS	
POND OUTLET & SPILLWAY PLAN & PROFILE		SHEET 10 OF 20 PROJECT No. 18.995.001	
DESIGNED BY: ACR	SCALE: HORIZ AS SHOWN	DATE ISSUED: JUNE 2018	DRAWING No. SD01
CHECKED BY: DRK	VERT. 1" = 5'	SHEET	10 OF 20

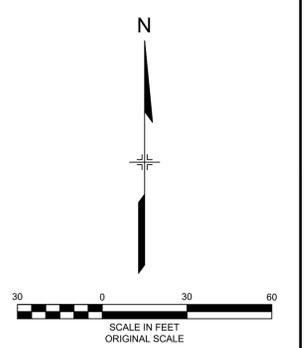


BMP LEGEND

[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]	SF	SEEDING AND MULCHING
[Symbol]	SF	SILT FENCE
[Symbol]	SSA	STABILIZED STAGING AREA
[Symbol]	SR	SURFACE ROUGHING
[Symbol]	VTC	VEHICLE TRACKING CONTROL
[Symbol]	RS	ROCK SOCK
[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:

- 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.
- SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
- 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.
- 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-GRAD

No.	DATE	DESCRIPTION	BY
REVISIONS			
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SHEET KEY

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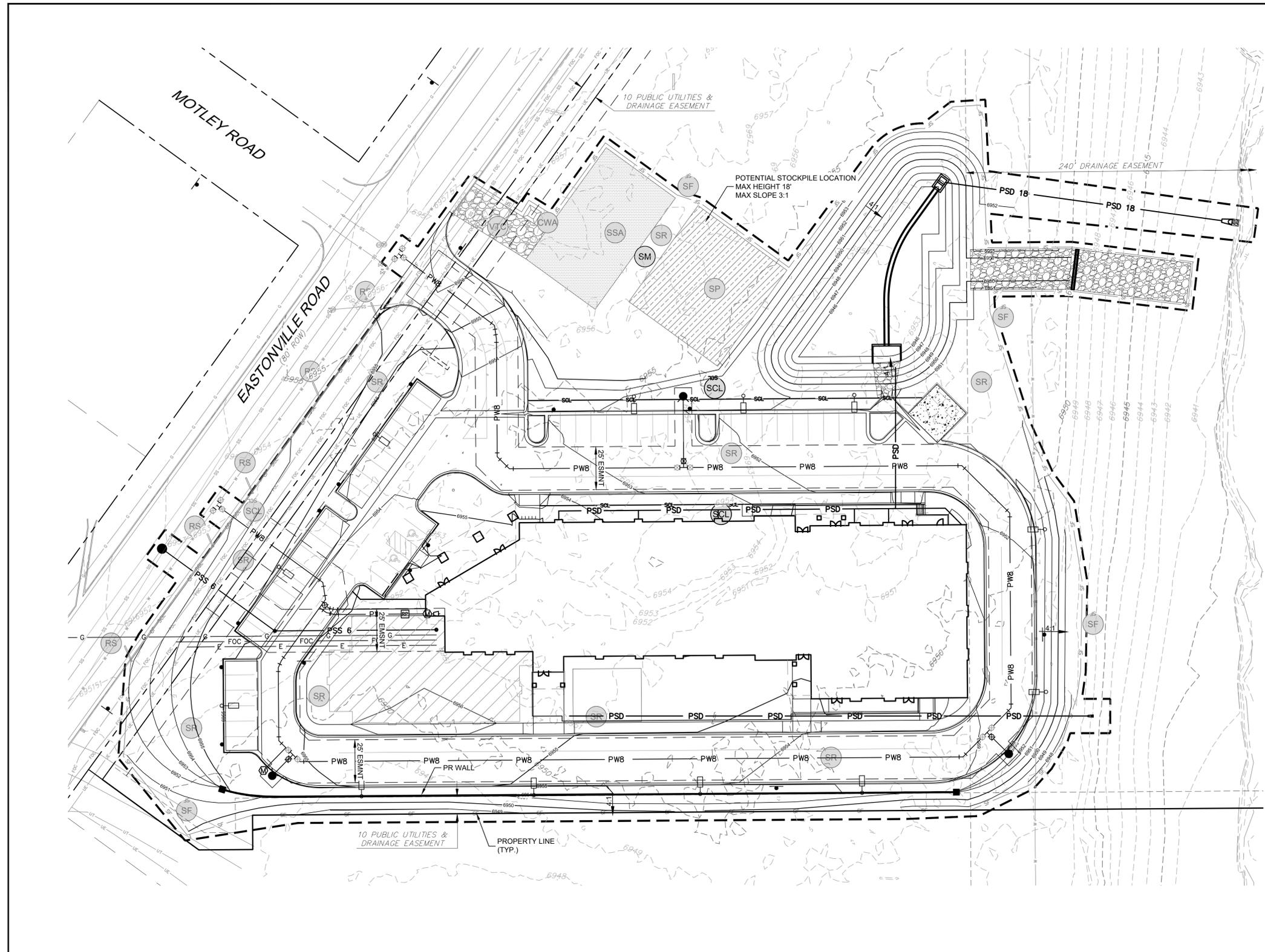
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

INITIAL EROSION CONTROL PLAN
SITE PREP, DEMO, AND GRADING

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. 1" = 30'	SHEET	12 OF 29	EC01
CHECKED BY:	DRK	VERT. NA			

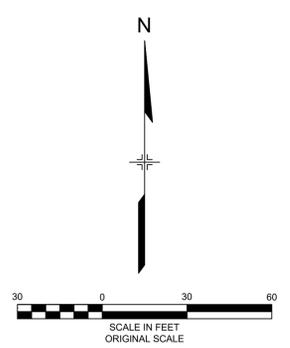


BMP LEGEND

	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 SOCKS
	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.



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
X:995-PR-GRAD

No.	DATE	DESCRIPTION	BY
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PREPARED BY:

Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

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

LIBERTY TREE ACADEMY

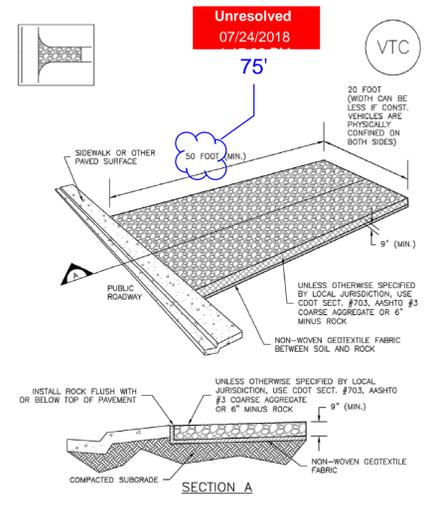
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

**FINAL EROSION CONTROL PLAN
PERMANENT SITE STABILIZATION**

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: JUNE 2018	DRAWING No. EC02
DRAWN BY: ACR	HORIZ. NA	SHEET 13 OF 29	
CHECKED BY: DRK	VERT. NA		



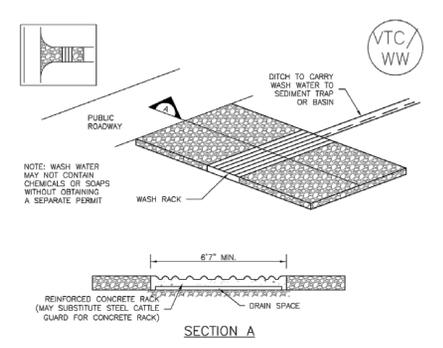
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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

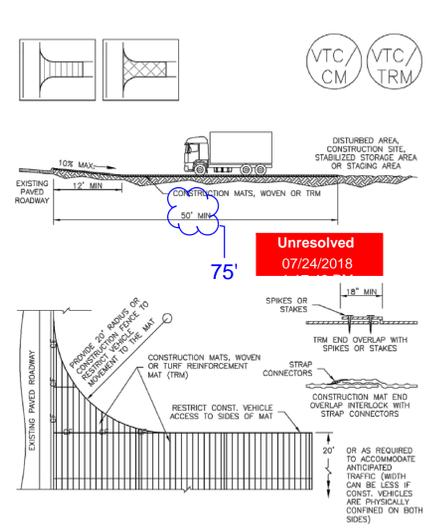
SM-4 Vehicle Tracking Control (VTC)



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)

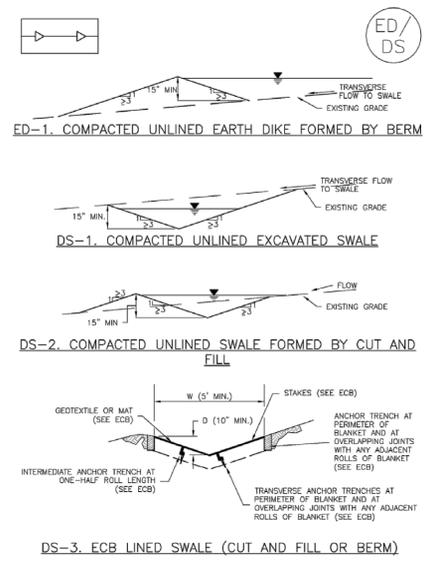
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-5

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 USFCD 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)

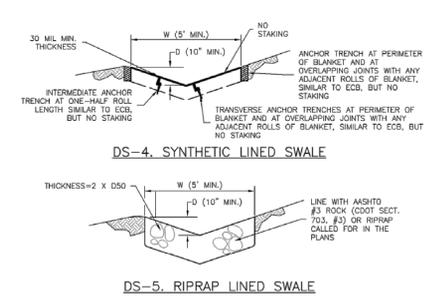
VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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, SEEDING AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD 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

- 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, SEEDING AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD 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)

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
REVISIONS			

COMPUTER FILE MANAGEMENT

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SHEET KEY

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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

LIBERTY TREE ACADEMY

PREPARED BY: Matrix DESIGN GROUP

AN EMPLOYEE-OWNED COMPANY

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

DESIGNED BY: ACR SCALE: HORIZ. DATE ISSUED: JUNE 2018 DRAWING No. ECDT01
 CHECKED BY: DRK VERT. NA SHEET 14 OF 29



EC-4 Mulching (MU)

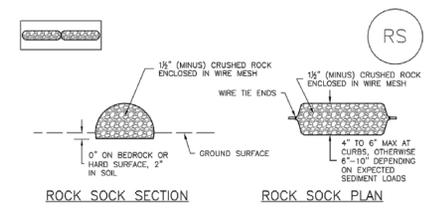
- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping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

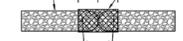
MU-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012

SC-5 Rock Sock (RS)



ROCK SOCK SECTION ROCK SOCK PLAN

ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 1/2" (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.



ROCK SOCK JOINTING

GRADATION TABLE	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
NO. 4	100
2"	90 - 100
1 1/2"	20 - 50
3/4"	0 - 15
0 - 5	0 - 5

ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAGE POLYURETHANE MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2"; RECOMMENDED MINIMUM ROLL WIDTH OF 48".
- 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.
- 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

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

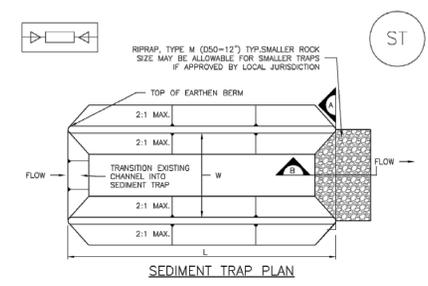
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS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

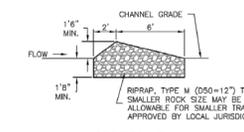
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RS-3

SC-8 Sediment Trap (ST)



SEDIMENT TRAP PLAN

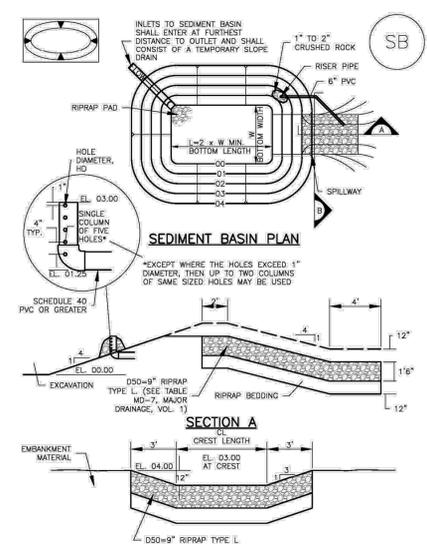
SECTION A



SECTION B ST-1. SEDIMENT TRAP

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

Sediment Basin (SB) SC-7



SEDIMENT BASIN PLAN

SECTION A

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

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), (ft)
1	12 1/2	2	1/2
2	21	3	3/4
3	28	5	1
4	33 1/2	6	1 1/4
5	38 1/2	8	1 1/2
6	43	9	1 3/4
7	47 1/2	11	1 3/4
8	51	12	1 3/4
9	55	13	1 3/4
10	58 1/2	15	1 3/4
11	61	16	1 3/4
12	64	18	1 3/4
13	67 1/2	19	1 3/4
14	70 1/2	21	1 3/4
15	73 1/2	22	1 3/4

SEDIMENT BASIN INSTALLATION NOTES

- 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.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON OR BAINS AS A STORMWATER CONTROL.
- 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.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SOH 40 OR GREATER SHALL BE USED.
- 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.

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

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.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-7

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

REFERENCE DRAWINGS

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SHEET KEY



PREPARED FOR:
LIBERTY TREE ACADEMY
 24520
 PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

SEAL

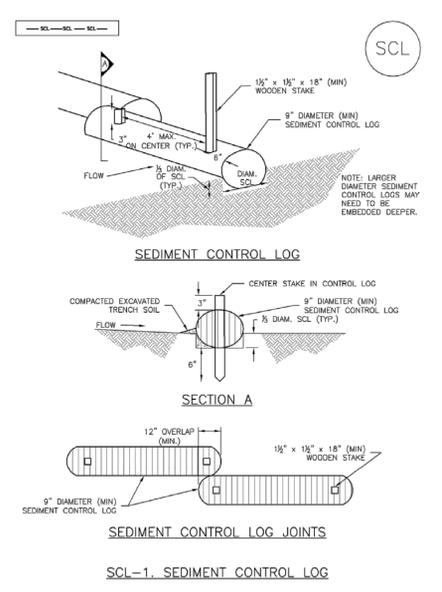
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LIBERTY TREE ACADEMY
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EROSION CONTROL DETAILS

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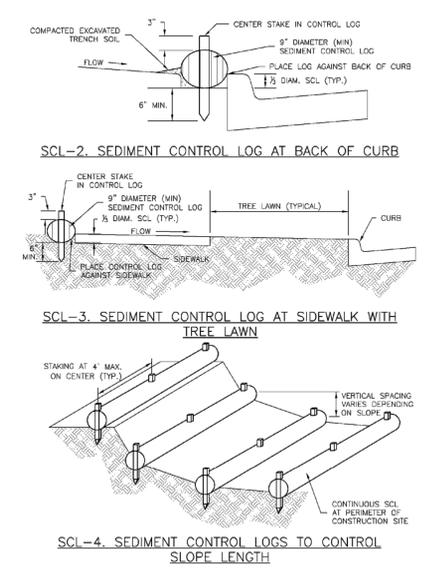


Sediment Control Log (SCL) SC-2



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

SC-2 Sediment Control Log (SCL)



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

- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE/ LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSDOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NONKICK WEED SEEDS OR OBJECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- 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.
- 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.
- 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.
- 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 PRIOR TO INSTALLATION SHALL BE REPLACED.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

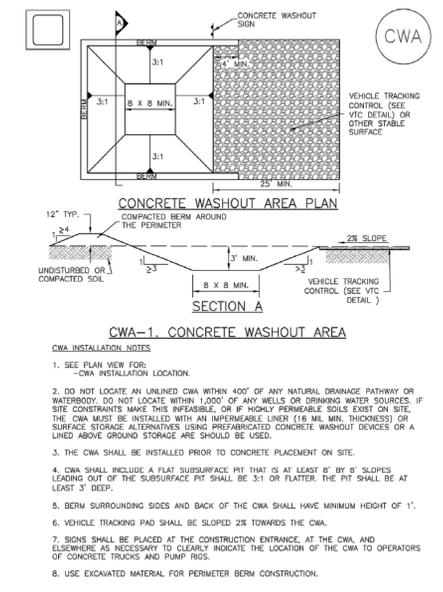
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- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY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

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

Concrete Washout Area (CWA) MM-1



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

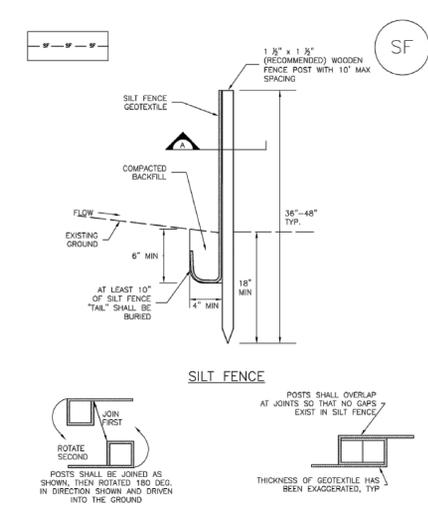
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS 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.
- 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".
- 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.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- 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 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 CWA-4

Silt Fence (SF) SC-1



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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE 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 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.
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- 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.
- 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 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 SF-4

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CTB FILE: ----			
PLOT DATE: 7/3/2018 12:30 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

NO.	DESCRIPTION
1	LIBERTY TREE ACADEMY
2	TOWN OF PEYTON, EL PASO COUNTY
3	CONSTRUCTION DOCUMENTS
4	EROSION CONTROL DETAILS

PREPARED FOR:

LIBERTY TREE ACADEMY

PREPARED BY:

Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

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

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	NA		ECDT03
CHECKED BY:	DRK	VERT.	NA	SHEET	16 OF 29



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 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.
- 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

Stockpile Management (SM) MM-2

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 AFOOD)

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 EROSION MATERIALS.
- THIS FEATURE CAN BE USED FOR:
 - UTILITY REPAIRS.
 - 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

Stockpile Management (SM) MM-2

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.
- 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 AFOOD)

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

Surface Roughening (SR) EC-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.
- 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 AFOOD)

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, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

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

Stabilized Staging Area (SSA) SM-6

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 AFOOD)

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

REFERENCE DRAWINGS

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PREPARED FOR:

LIBERTY TREE ACADEMY

PREPARED BY:

Matrix DESIGN GROUP

AN EMPLOYEE-OWNED COMPANY

SEAL

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

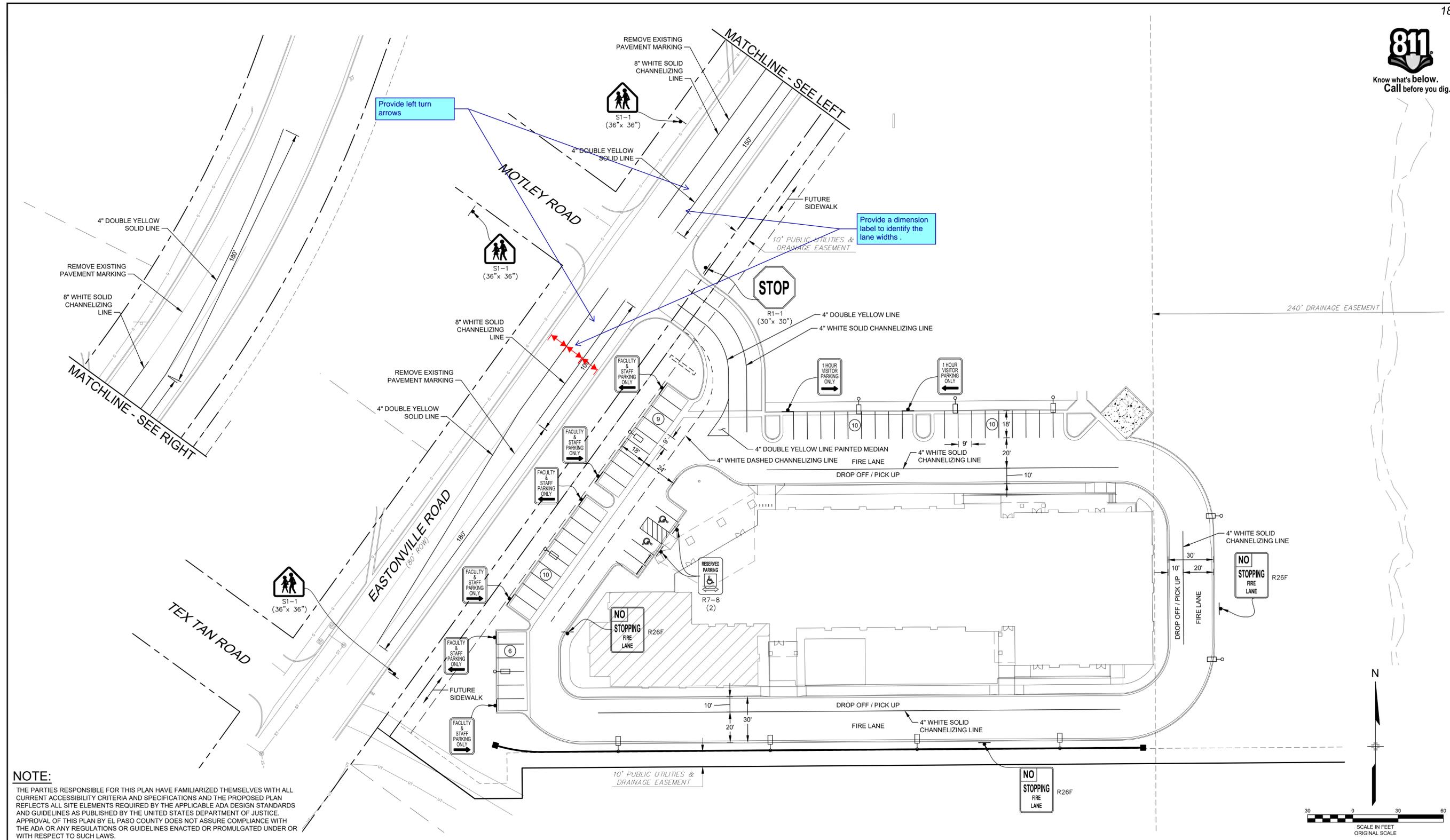
LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	VERT.	NA	ECDT04
CHECKED BY:	DRK	NA	SHEET	17 OF 29	



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	NO.	DATE	DESCRIPTION REVISIONS	BY
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X 995-PR-BASE				
X 995-EX-BASE				
X 995-EX-MAP				
X 995-PR-UTIL				
LTA OVERALL FIRST FLOOR PLAN				

COMPUTER FILE MANAGEMENT	
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59	60

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

SEAL

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

SIGNING & STRIPING PLAN

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. 1" = 30'	SHEET	18 OF 29	ST01
CHECKED BY:	DRK	VERT. NA			



Typical Curb and Gutter Details
Standard Drawing

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

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

Typical Cross Pan Layout Detail
Standard Drawing

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

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

Pedestrian Intersection Ramp Detail
Standard Drawing

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

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

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/SIGNALIZERS, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREA.

GENERAL NOTES

- WHERE THE 1'-6" FLARED SIDES OF A PERPENDICULAR CURB RAMP (P.A.R.) 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 CURBENS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPERS.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPERS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY COVERED WITHIN THE MARKINGS.

Pedestrian Intersection Ramp
Standard Drawing

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

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

TRUNCATED DOME DETAILS

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

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

Parallel Pedestrian Ramp Detail
Standard Drawing

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

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

Curb Opening with Drainage Chase Detail 2 of 2
Standard Drawing

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

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

Desilting Basin Outlet
Standard Drawing

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

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

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\DT01.dwg			
CTB FILE: ----			
PLOT DATE: 7/3/2018 12:30 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

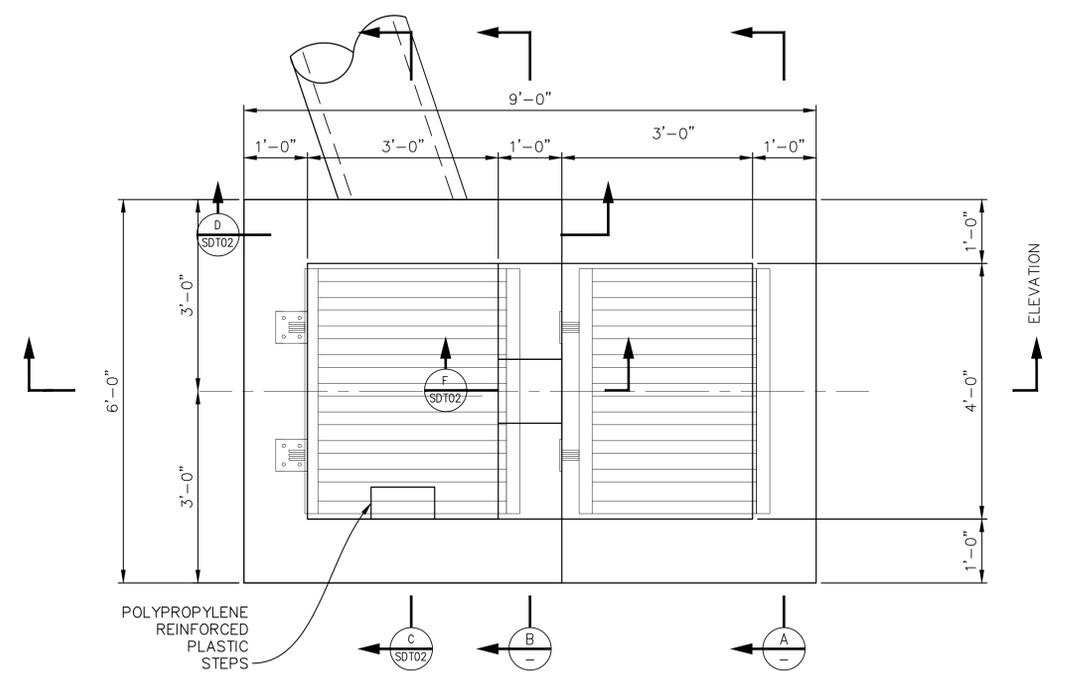
SEAL

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

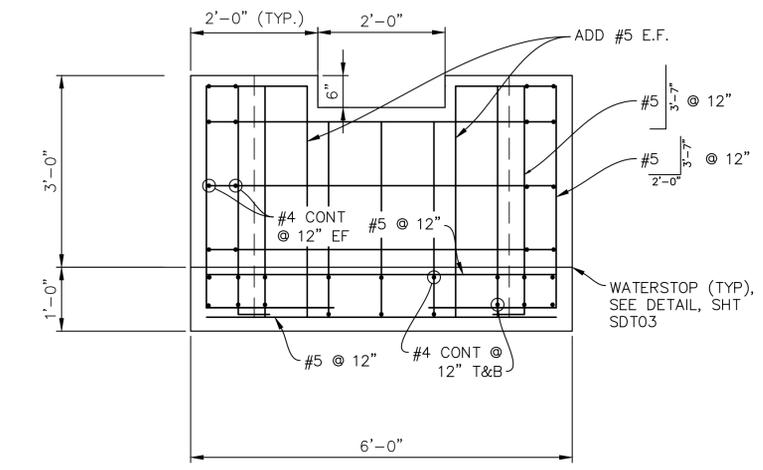
LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

DETAILS

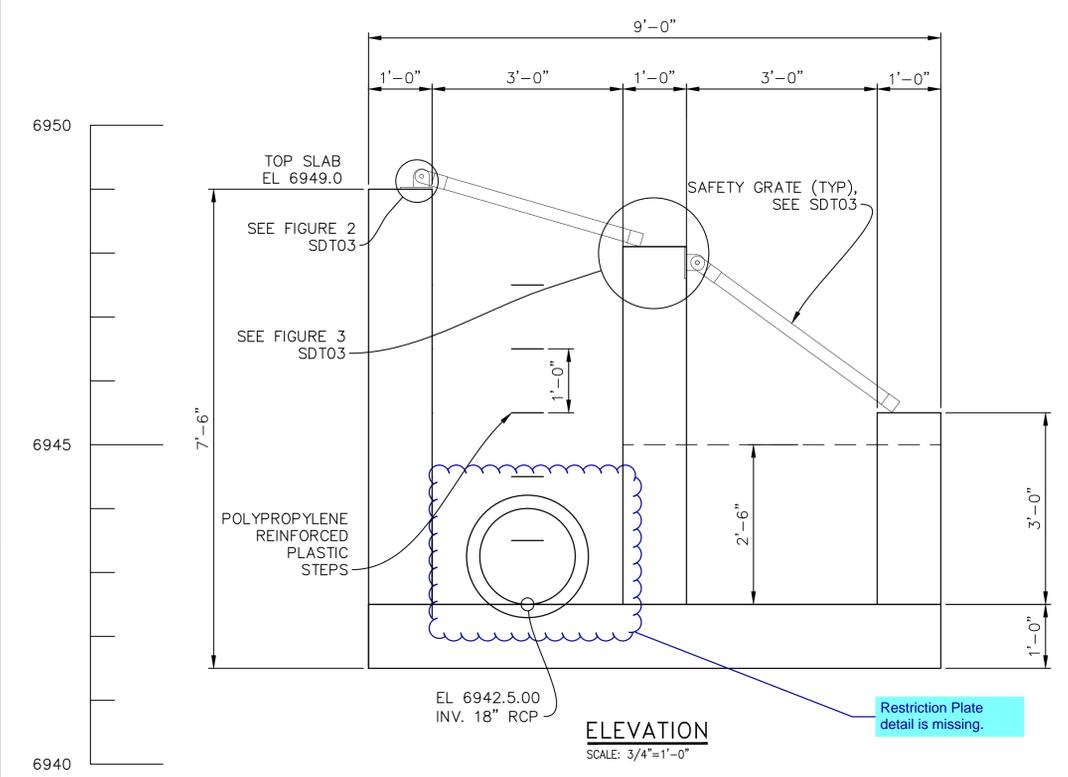
DESIGNED BY: ACR	SCALE: NA	DATE ISSUED: JUNE 2018	DRAWING No: DT01
CHECKED BY: DRK	HORIZ: NA	SHEET: 19 OF 29	



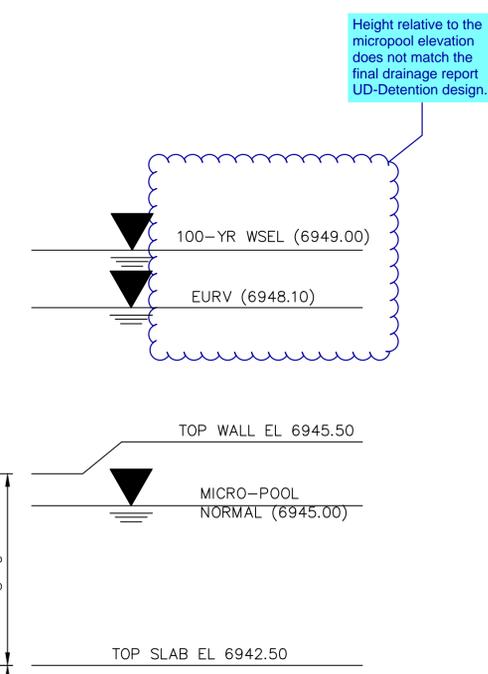
PLAN SCALE: 3/4"=1'-0"



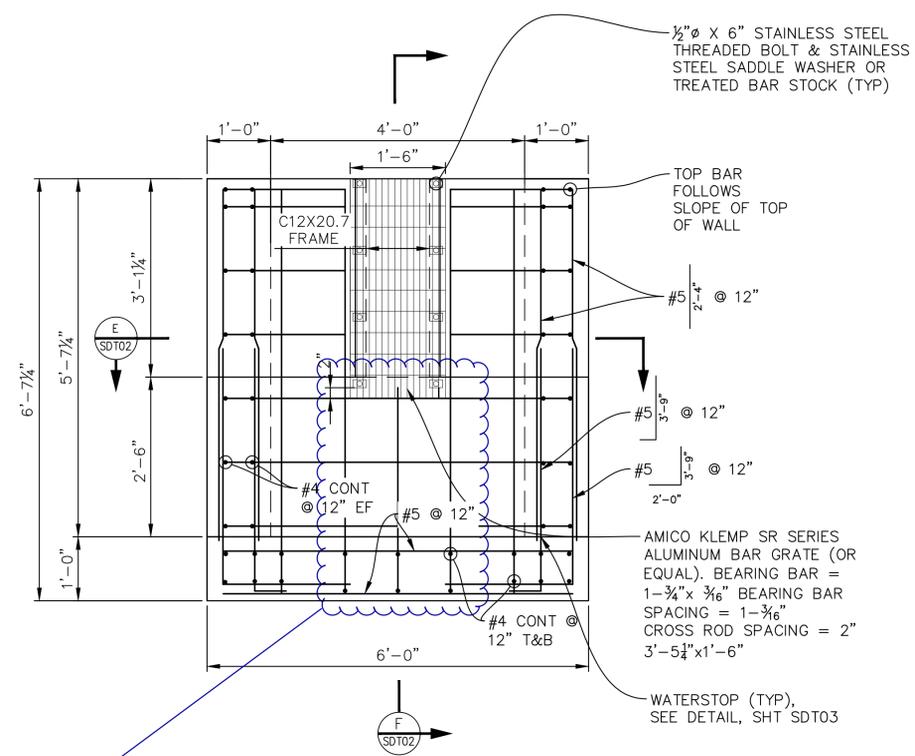
SECTION A SCALE: 3/4"=1'-0"



ELEVATION SCALE: 3/4"=1'-0"



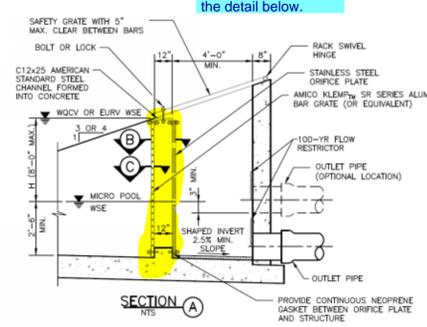
Height relative to the micropool elevation does not match the final drainage report UD-Detention design.



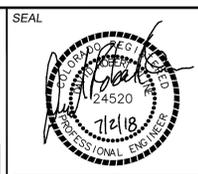
SECTION B SCALE: 3/4"=1'-0"

Revise. The plate and trash grate must extend to the bottom of the micropool per the detail below.

Restriction Plate detail is missing.

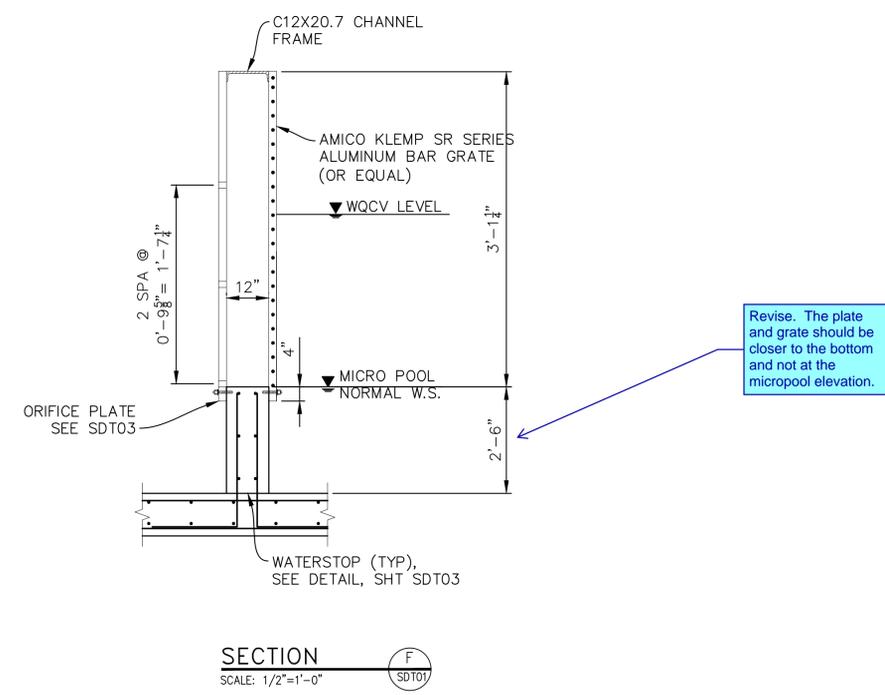
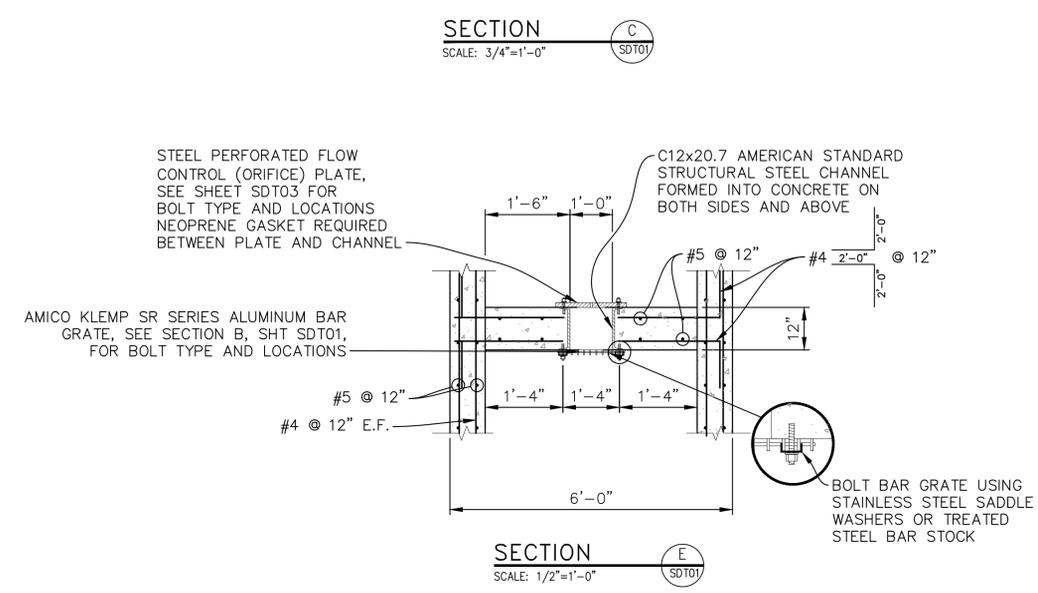
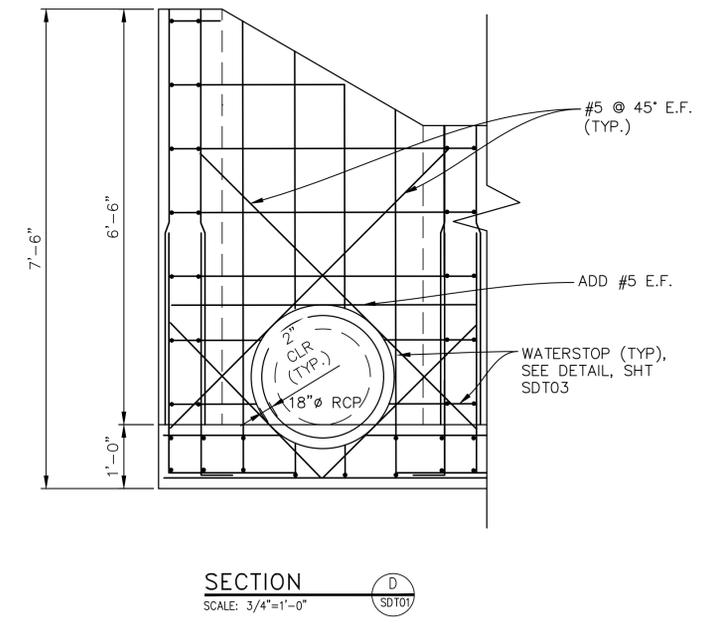
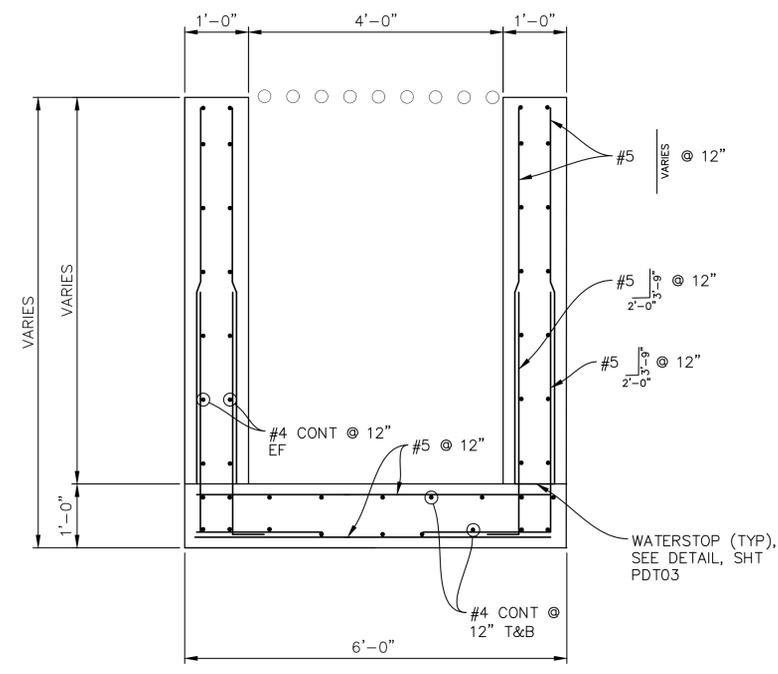


LIBERTY TREE ACADEMY logo and Matrix Design Group logo.



Project information table including Liberty Tree Academy, Town of Peyton, El Paso County, Pond Outlet Structure Details, and drawing No. SDT01.

Reference drawings, sheet key, and computer file management table.



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Structures\SDT01-03.dwg			
CTB FILE: ---			
PLOT DATE: 7/3/2018 12:30 PM			
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SHEET KEY	

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LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

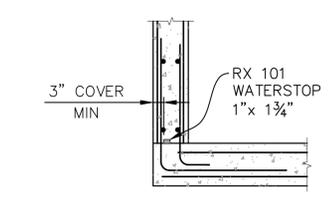
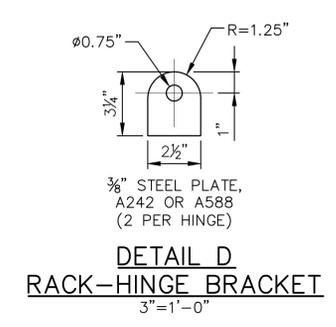
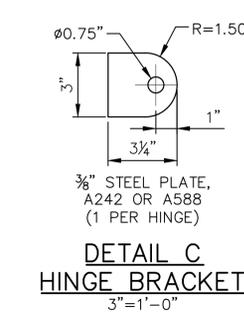
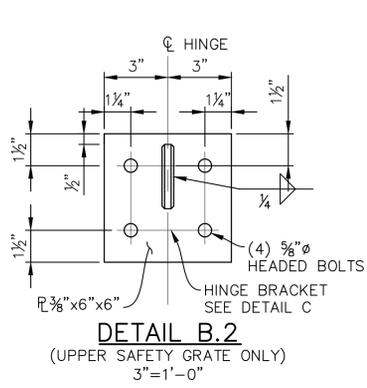
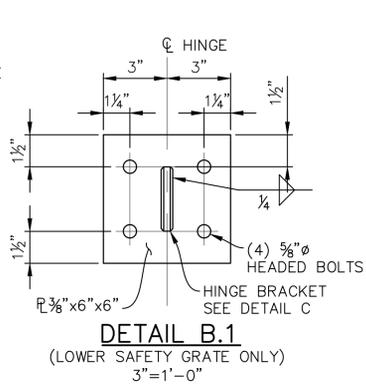
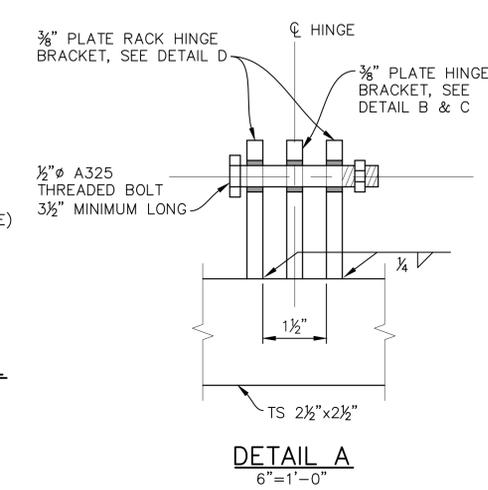
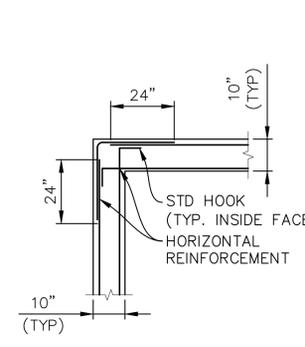
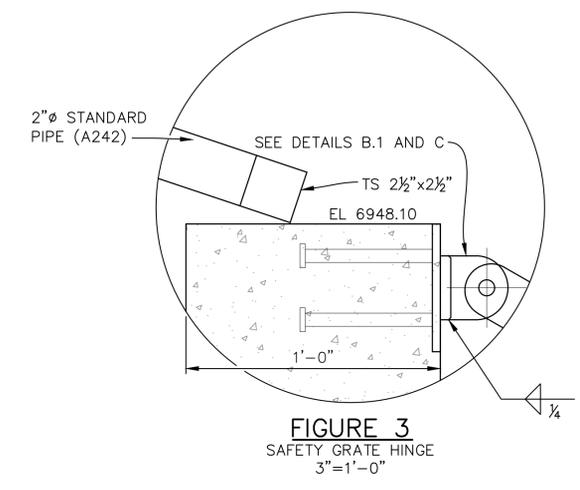
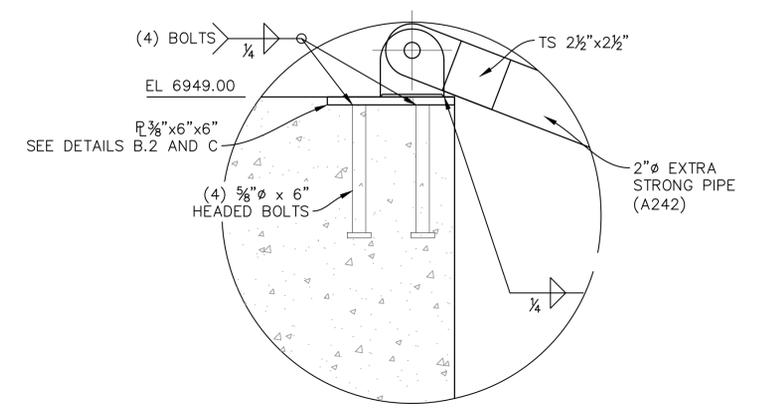
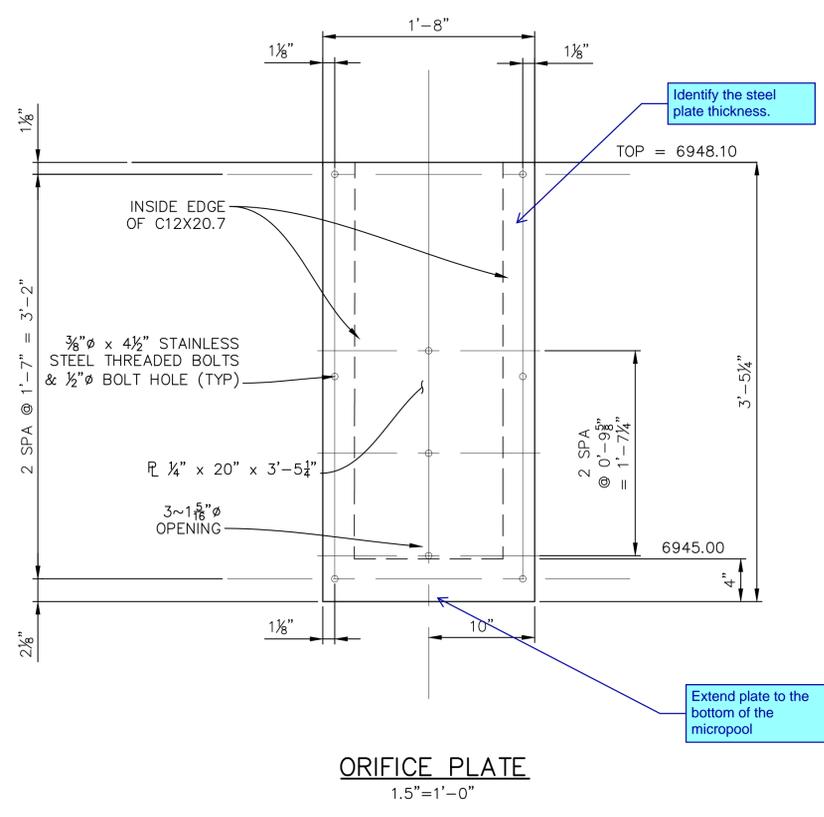
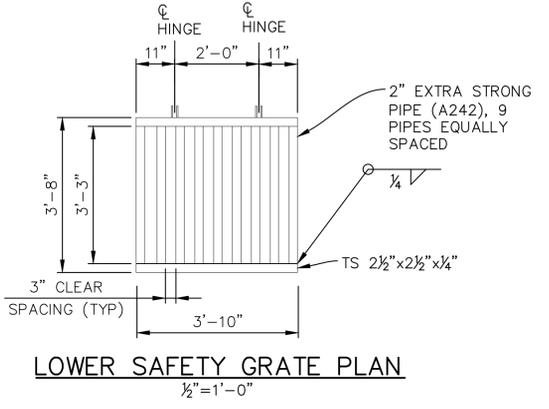
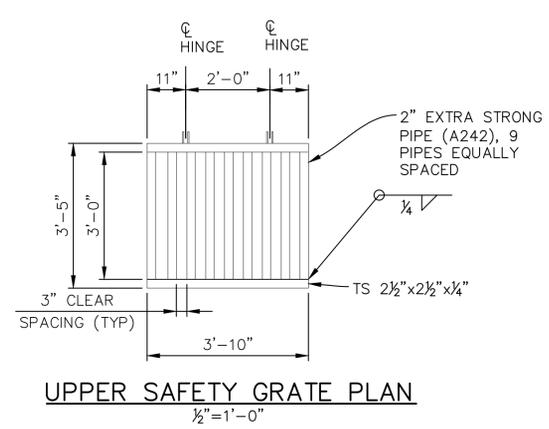
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

POND OUTLET STRUCTURE DETAILS

DESIGNED BY: ACR	SCALE:	DATE ISSUED: JUNE 2018	DRAWING No. SDT02
DRAWN BY: ACR	HORIZ.	SHEET 21 OF 29	
CHECKED BY: DRK	VERT.		



NOTES:
WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.
PLACE WATERSTOP FOR ENTIRETY OF EACH HORIZONTAL & VERTICAL CONSTRUCTION JOINT.
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Structures\SDT01-03.dwg			
CTB FILE: ---			
PLOT DATE: 7/3/2018 12:30 PM			
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NO.	DESCRIPTION	DATE	BY



PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL
Professional Engineer
24520
7/2/18

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

POND OUTLET STRUCTURE DETAILS

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

SCALE: HORIZ. AS SHOWN
VERT. AS SHOWN

DATE ISSUED: JUNE 2018
SHEET: 22 OF 29

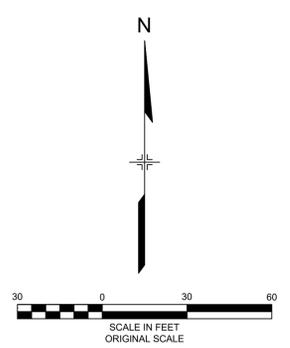
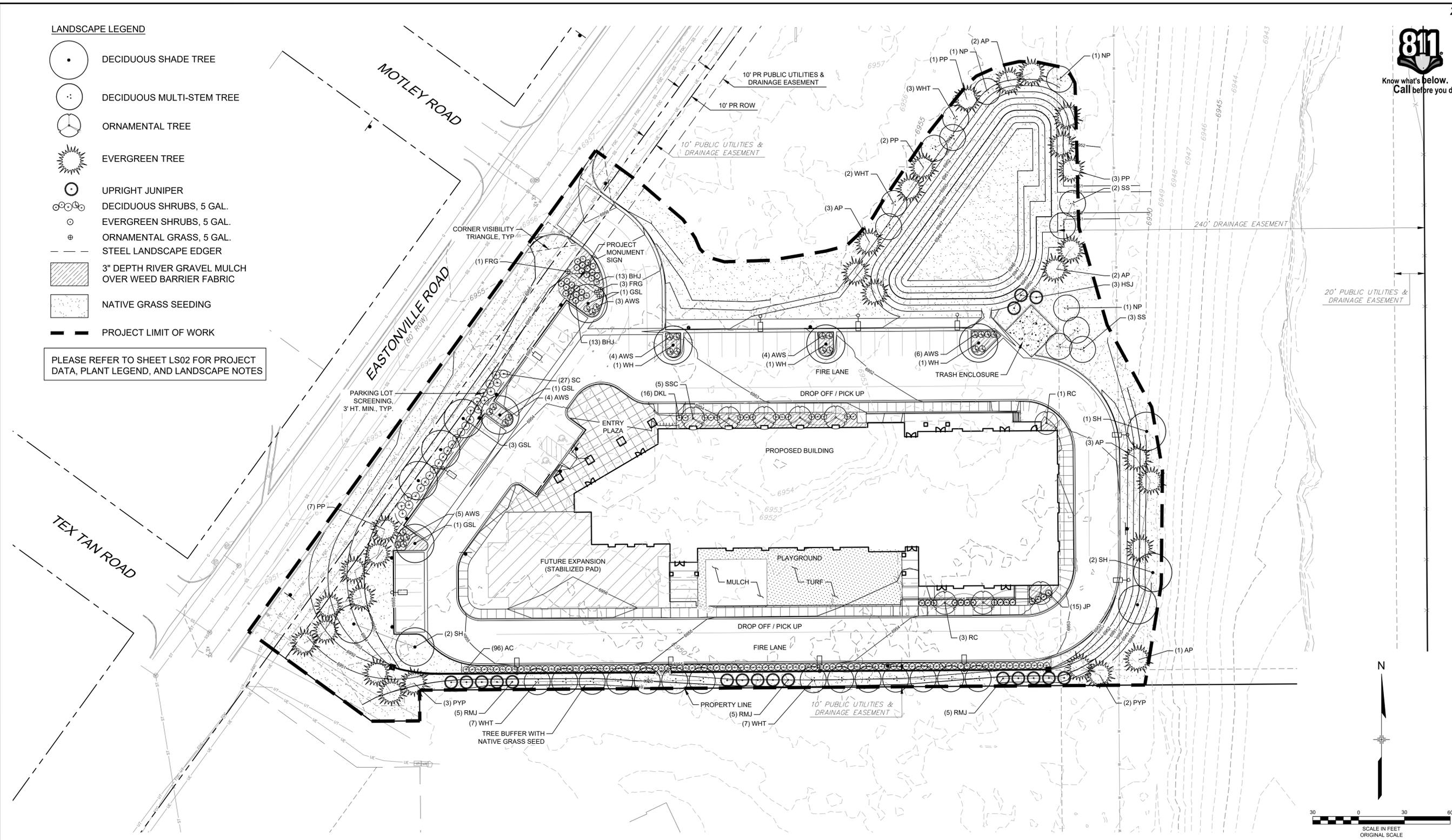
DRAWING No: **STD03**



LANDSCAPE LEGEND

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

PLEASE REFER TO SHEET LS02 FOR PROJECT DATA, PLANT LEGEND, AND LANDSCAPE NOTES



REF. NO.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Landscapes\LS01_CD.dwg			
CTB FILE: ----			
PLOT DATE: 7/3/2018 12:30 PM			
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SHEET KEY

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PREPARED FOR:

LIBERTY TREE ACADEMY

PREPARED BY:

Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

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

LANDSCAPE PLAN

DESIGNED BY: ACR	SCALE: 1" = 30'	DATE ISSUED: JUNE 2018	DRAWING No.:
DRAWN BY: ACR	HORIZ. NA	SHEET 23 OF 29	LS01
CHECKED BY: DRK	VERT. NA		



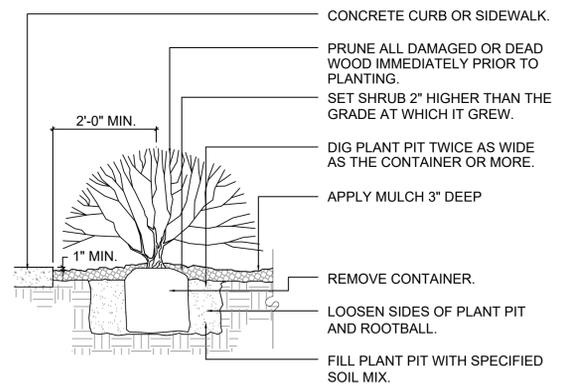
PLANT LEGEND					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
DECIDUOUS SHADE TREES					
GSL	6	ACCOLADE ELM	ULMUS JPAONICA X WILSONIANA	1.5" CAL.	B&B
SH	5	SKYLINE HONEYLOCUST	GLEDTISIA TRIACANTHOS INERMIS 'SKYLINE'	1.5" CAL.	B&B
WH	3	WESTERN HACKBERRY	CELTIS OCCIDENTALIS	1.5" CAL.	B&B
SUBTOTAL		14			
EVERGREEN TREES					
AP	11	AUSTRIAN PINE	PINUS NIGRA	6' HT.	B&B
HSJ	3	HILLSPIRE JUNIPER	JUNIPERUS VIRGINIANA 'CUPRESSIFOLIA'	6' HT.	B&B
PP	13	PONDEROSA PINE	PINUS PONDEROSA	6' HT.	B&B
PYP	5	PINYON PINE	PINUS EDULIS	6' HT.	B&B
RMJ	15	ROCKY MOUNTAIN JUNIPER	JUNIPERUS SCOPULORUM	6' HT.	B&B
SUBTOTAL		27			
ORNAMENTAL TREES					
NP	4	NEWPORT PLUM	PRUNUS CERASIFERA 'NEWPORT'	1" CAL.	B&B; MULTI-STEM
RC	6	RADIANT CRABAPPLE	MALUS 'RADIANT'	1" CAL.	B&B
SS	5	SHADBLOW SERVICEBERRY	AMELANCHIER CANADENSIS	1" CAL.	B&B; MULTI-STEM
SSC	5	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	1" CAL.	B&B
WHT	18	WASHINGTON HAWTHORN	CRATAEUS PHAENOPYRUM	1" CAL.	B&B; MULTI-STEM
SUBTOTAL		38			
EVERGREEN SHRUBS					
BHJ	26	BAR HARBOUR JUNIPER	JUNIPERUS HORIZONTALIS 'BAR HARBOUR'	5 GAL.	4' O.C. SPACING
SUBTOTAL		26			
DECIDUOUS SHRUBS					
AC	96	ALPINE CURRANT	RIBES ALPINUM	5 GAL.	4' O.C. SPACING
AWS	26	ANTHONY WATERER SPIREA	SPIRAEA BUMALDA 'ANTHONY WATERER'	5 GAL.	4' O.C. SPACING
DKL	23	DWARF KOREAN LILAC	SYRINGA MEYERI	5 GAL.	4' O.C. SPACING
JP	27	JACKMAN POTENTILLA	POTENTILLA FRUTICOSA 'JACKMANI'	5 GAL.	4' O.C. SPACING
SC	27	SPREADING COTONEASTER	COTONEASTER DIVARICATA	5 GAL.	5' O.C. SPACING
SUBTOTAL		199			
ORNAMENTAL GRASSES					
FRG	4	FEATHER REED GRASS	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	5 GAL.	3' O.C.
SUBTOTAL		4			

PROJECT DATA	
DESCRIPTION	QUANTITY
PROPERTY (AS DELINEATED ON PLAN)*	161,038 S.F.
BUILDING	25,279 S.F.
PARKING & OTHER VEHICULAR USE AREAS	47,391 S.F.
LANDSCAPE	65,609 S.F.
PARKING STALLS	49

* ONLY A PORTION OF THE TOTAL LOT IS BEING DEVELOPED AT THIS TIME, AS OUTLINED ON THE PLAN BY THE PROJECT LIMIT OF WORK. THEREFORE, THE QUANTITY SHOWN ABOVE IS ONLY THAT PORTION BEING DEVELOPED AT THIS TIME.

LANDSCAPE NOTES:

- ALL CONSTRUCTION SHALL BE DONE PER REGULATIONS OF GOVERNING AGENCIES.
- 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.
- NO TREE OR SHRUB WILL BE PLANTED WITHIN 5' OF A FIRE HYDRANT.
- DISTANCE OF TREES FROM WET UTILITY LINES SHALL BE A MINIMUM OF 10 FEET.
- ALL SHRUB BED AREAS SHALL BE SEPARATED FROM SOD OR GRASS AREAS BY ROLLED-TOP STEEL EDGING MATERIAL.
- 3" DEPTH RIVER GRAVEL MULCH (1 1/2") SHALL BE PLACED OVER A SUITABLE WEED BARRIER FABRIC IN ALL SHRUB PLANTING BEDS.
- 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.
- SHRUB BEDS SHALL BE AMENDED AND TILLED IN THEIR ENTIRETY.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
- 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.
- TOPSOIL, IF DISTURBED SHALL BE STOCKPILED AND RE-USED ON THE SITE.

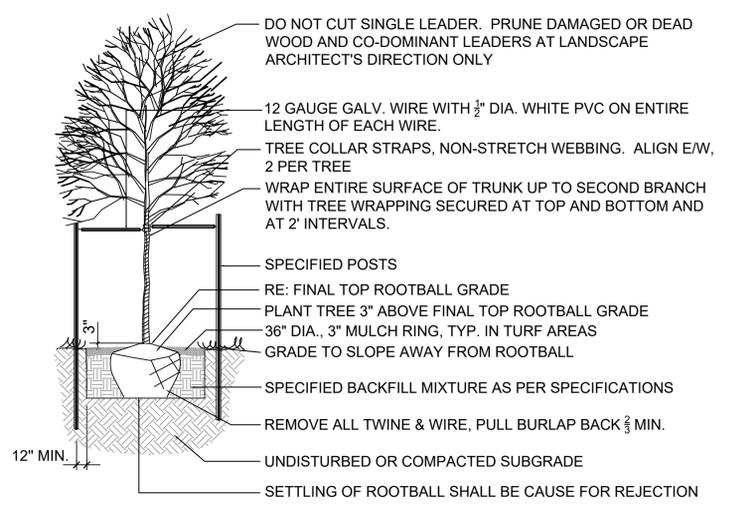


NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

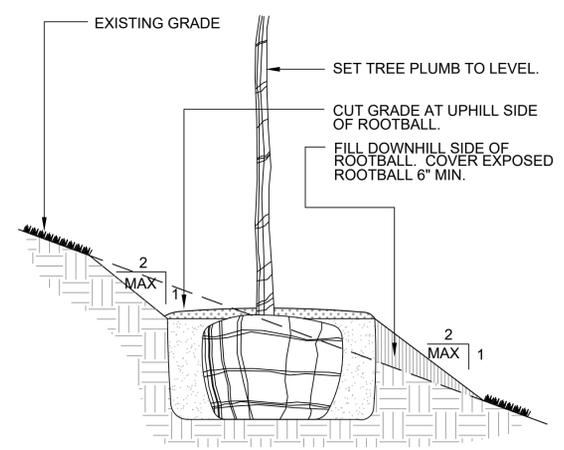
NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB. THIS DETAIL SHALL ALSO APPLY TO PERENNIAL FLOWERS IN CONTAINER.

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

SHRUB PLANTING
NTS



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

EVERGREEN TREE PLANTING
NTS

REFERENCE DRAWINGS X-995-MD-022x34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-GRAD X-995-PR-LANDSCAPE Planting Details LTA OVERALL FIRST FLOOR PLAN 6-7-18	No.	DATE	DESCRIPTION	BY
	COMPUTER FILE MANAGEMENT FILE NAME: R:\118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Landscapel\LS01_CD.dwg CTB FILE: ---- PLOT DATE: 7/3/2018 12:30 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			
SHEET KEY				
PREPARED FOR: LIBERTY TREE ACADEMY		PREPARED BY: Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY		Terega J. Roberson LA-203 Original Date of Licensure 01/01/2008 LICENSED LANDSCAPE ARCHITECT STATE OF COLORADO
LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS				
LANDSCAPE NOTES				
DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	JUNE 2018
DRAWN BY:	ACR	HORIZ. NA	SHEET	24 OF 29
CHECKED BY:	DRK	VERT. NA		
				DRAWING No. LS02



IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
◆◆◆	HUNTER	PROS-12-CV-PRS30 WITH PRO-SPRAY NOZZLE	HI-POP SPRAY HEAD	1
◆◆◆	HUNTER	PROS-12-CV-PRS30 WITH PRO-SPRAY SST, CORNER NOZZLE	HI-POP SPRAY HEAD	1
◆◆◆	HUNTER	I-20-12 WITH # NOZZLE	GEAR DRIVEN ROTOR	2
◆◆◆	HUNTER	I-20-12 WITH # NOZZLE	GEAR DRIVEN ROTOR	2
◆◆◆	HUNTER	ICV-F5-A5	ELECTRIC CONTROL VALVE WITH DECODER	11, 17
◆◆◆	HUNTER	HQ-44-LRC	QUICK COUPLING VALVE	3
◆◆◆	HUNTER	DUAL - 48 STATION MODEL	2-WIRE ELECTRIC CONTROLLER	4
◆◆◆	HUNTER	SOLAR SYNC - W55-SEN (*wireless)	WEATHER SENSOR DEVICE	20
◆◆◆	FEBCO	825YA WITH WATTS 223-HP FRV	RP BACKFLOW PREVENTER	5
N/S	STRONG BOX	SBBC-(15)AL	BACKFLOW PREVENTER ENCLOSURE	6
N/S	OLDCASTLE / CARSON	REFER TO SPECIFICATIONS AND DETAILS	VALVE BOXES	VARIOUS
N/S	MATCO	201X	MANUAL DRAIN VALVE	7
◆◆◆		LINE SIZE - 2 1/2" AND SMALLER	GATE VALVE	8
◆◆◆	HUNTER	ICV-F5-A5	MASTER CONTROL VALVE	13
◆◆◆	CST	FSI-T 10-001 1"	FLOW SENSOR	14
◆◆◆		CLASS 200 BE - 2 1/2" & SMALLER	PVC MAINLINE	9
◆◆◆		CLASS 200 BE	PVC LATERAL	9
◆◆◆		CLASS 160	PVC SLEEVING	10
◆◆◆	TORO	BLUE STRIPE	POLY DRIP TUBING - 3/4" MIN. WIDTH	15
◆◆◆	HUNTER	ICZ-101-LF-25	DRIP VALVE ASSEMBLY WITH DECODER	14, 16
◆◆◆			DRIP LINE BLOW-OUT STUB	16
N/S	RAIN BIRD	XERI-BUG	DRIP EMITTERS	15
N/S	HUNTER	DUAL-1	VALVE DECODER	11, 14, 17
◆◆◆	PAIGE	PT354D (FOR HUNTER, BASELINE)	2-WIRE DECODER CABLE	11, 14, 17
◆◆◆	HUNTER	DUAL-S	SURGE PROTECTION	18
◆◆◆			CONTROLLER & STATION NO. CONTROL VALVE SIZE	

IRRIGATION CONSTRUCTION NOTES

- DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY MATRIX DESIGN GROUP. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.
- SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 109 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OF ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 81 PSI MINIMUM.
- IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A SIX NIGHT PER WEEK, SIX HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

ORNAMENTAL PLANTINGS	0.89" PER WEEK PEAK SEASON
NATIVE SEED MIXES	0.74" PER WEEK PEAK SEASON (TWO SEASONS)

 NOTE: IT IS THE INTENT OF THIS DESIGN THAT NATIVE AREAS WOULD ONLY BE IRRIGATED FOR ESTABLISHMENT. SYSTEM WILL REMAIN FOR USE DURING YEARS WITH LESS THAN NORMAL RAINFALL.
- EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVINGS THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER.
- PIPING INSTALLATION - IRRIGATION PIPING SHALL MAINTAIN A MINIMUM DISTANCE FROM BUILDING FOUNDATIONS OF 5 FEET OR AS DESCRIBED IN SOILS REPORT, WHICHEVER IS GREATER. NO SPRAY IRRIGATION SHALL OCCUR WITHIN 10 FEET OF THE FOUNDATION. NO DRIP IRRIGATION SHALL OCCUR WITHIN 5 FEET OF THE FOUNDATION UNLESS SOIL MOISTURE SENSORS ARE INSTALLED ON VALVES SERVICING THESE AREAS. ALL IRRIGATION PIPING AND EMISSION DEVICES LOCATED ON TOP OF OR WITHIN BUILDING STRUCTURE SHALL CONFORM TO WATERPROOFING CONSULTANT REQUIREMENTS. PIPE ROUTING MAY BE SHOWN WITHIN THESE DISTANCES FOR GRAPHICAL CLARITY ONLY.
- MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
- POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 17 SERIES NOZZLES ON ALL HEADS SPACED AT 16' TO 15'. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12 TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL 5 NOZZLES ON ALL HEADS SPACED AT 5'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN 'S' DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN 'L' OR 'R' DESIGNATION. VARIABLE ARC NOZZLES SHOULD BE UTILIZED ADJACENT TO CURVILINEAR SHRUB BEDS OR FOR ANY ANGLES THAT ARE NOT A STANDARD NOZZLE ANGLE. WHERE INDICATED, INSTALL LOW FLOW SQ SERIES SQUARE NOZZLES AT SPACING SHOWN.
- DRIP IRRIGATION - REFER TO IRRIGATION DETAIL SHEET FOR DRIP EMITTER QUANTITIES AND PLACEMENT.
- UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & (QUANTITY)
3/4" - 1 1/4" PIPING	2" PVC (1)
1 1/2" - 2" PIPING	4" PVC (1)
2 1/2" - 3" PIPING	6" PVC (1)
COMMUNICATION CABLE	2" PVC (1)
- 2-WIRE SYSTEM NOTES - CONTRACTOR SHALL INSTALL ALL TWO-WIRE COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
 - CONTRACTOR SHALL USE ONLY MANUFACTURED 2-WIRE DECODER CABLE (SEE SCHEDULE FOR SPECIFIC 2-WIRE CABLE).
 - USE DIFFERENT COLOR 2-WIRE DECODER CABLE FOR EACH CONTROLLER (BLUE FOR A AND BLACK FOR B).
 - ONLY USE SINGLE STATION DECODERS (SEE SCHEDULE FOR SPECIFIC MODEL).
 - ONLY USE SENSOR DECODER FOR FLOW SENSOR (SEE SCHEDULE FOR SPECIFIC MODEL) IF INDICATED ON PLANS.
 - LOOP 5' OF 2-WIRE DECODER CABLE INTO ALL VALVE BOXES (WITH DECODERS AND SPLICES) FOR MAINTENANCE.
 - USE ONLY 3M DBR-6 WATERPROOF CONNECTORS ON ALL WIRE SPLICES AND ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX WITH CONTROL VALVES OR A SEPARATE 10" ROUND VALVE BOX FOR WIRE SPLICES.
 - INSTALL SURGE PROTECTOR RODS OR PLATES 8 LF. FROM VALVES, DECODERS, AND COMMUNICATION WIRE.
 - GROUND ALL DECODERS AND DECODER WIRE A MINIMUM OF EVERY 1000' OF WIRE OR EVERY 12TH DECODER AND AT ALL ENDS OF 2-WIRE DECODER CABLE RUN. LOOP EXTRA 10' OF 2-WIRE DECODER CABLE INTO A VALVE BOX AT PHASING LINES FOR FUTURE CONNECTION (IF INDICATED ON PLANS).
- ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
- PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.
- EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
- EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 12 HOURS PRIOR TO ANY NEW CONSTRUCTION.
- WATER BUDGETS AND PROJECTIONS - HYDROSYSTEMS*KDI HAS BASED THE IRRIGATION DESIGN AND THE ASSOCIATED PROJECTED WATER USE UPON SUCH FACTORS AS CITY OR WATER DISTRICT IMPOSED REQUIREMENTS, PUBLISHED PLANT SPECIES WATER NEEDS, SELECTED IRRIGATION METHOD EFFICIENCIES AS REPORTED BY INDEPENDENT TESTING FACILITIES, HISTORICAL WEATHER DATA FOR THE PROJECT LOCATION, AND PROPER MAINTENANCE PROCEDURES. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE ACTUAL WATER USAGE VARIATION THAT IS A RESULT OF FIELD MODIFICATIONS TO THE SYSTEM NOT MATCHING CONSTRUCTION DOCUMENTS, IMPROPER MAINTENANCE, WASTE DUE TO SYSTEM DAMAGE OR VANDALISM, OR WEATHER CONDITIONS THAT DEVIATE FROM PUBLISHED 30 YEAR HISTORICAL AVERAGES.

DIRECTORY	
IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4

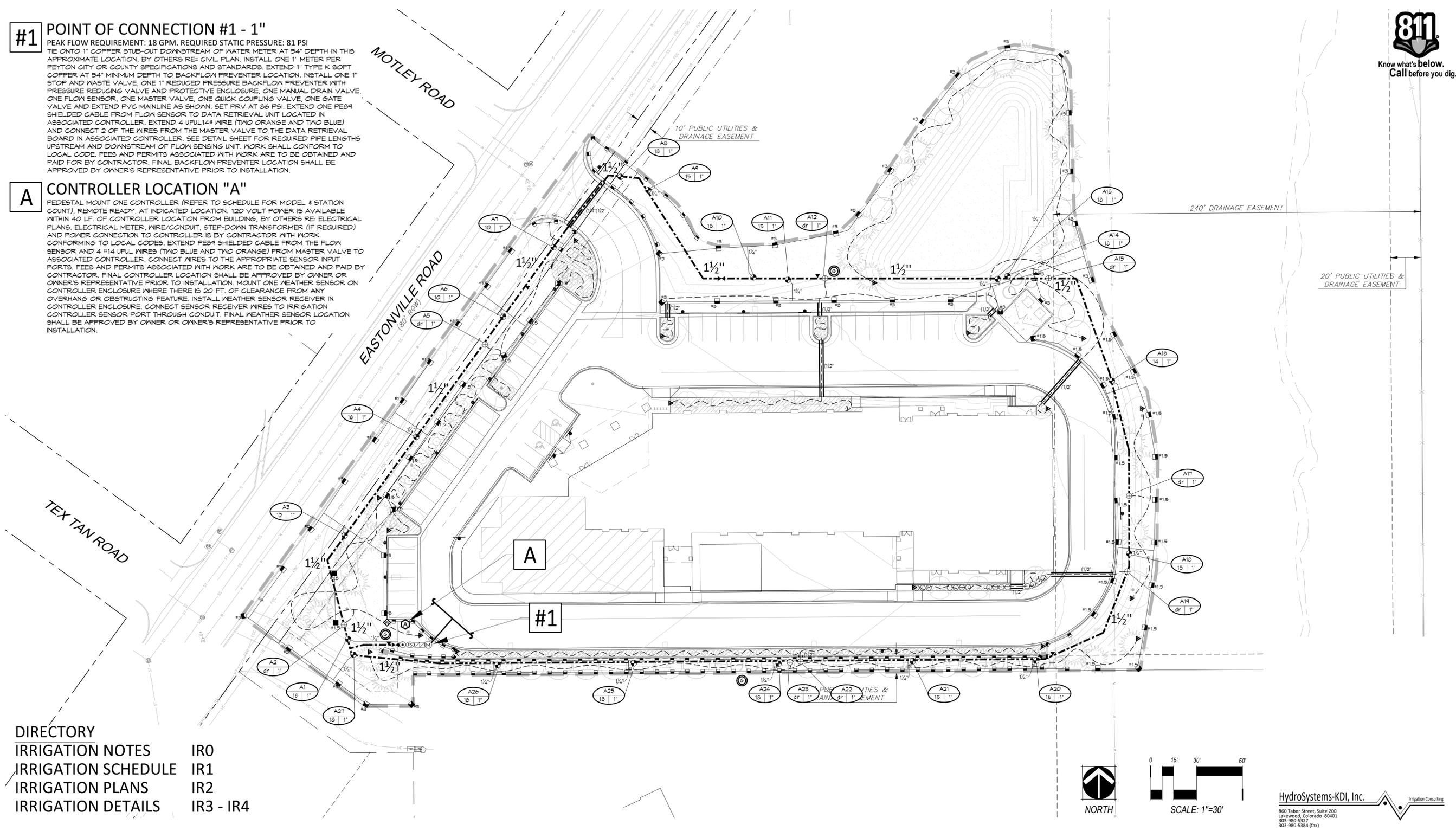
HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

REFERENCE DRAWINGS L801_SDP X:995-PR-LANDSCAPE-2 X:995-EX-BASE X:995-EX-MAP X:995-MD520-34 X:995-PR-BASE X:995-PR-GRAD LTA OVERALL FIRST FLOOR PLAN 6-7-18	SHEET KEY 	PREPARED FOR: LIBERTY TREE ACADEMY PREPARED BY: Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY	SEAL PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS IRRIGATION NOTES & SCHEDULE	
No. DATE DESCRIPTION REVISIONS BY					
COMPUTER FILE MANAGEMENT FILE NAME: T:10-NEW WORK\6xxx-Liberty Tree Academy\6xxx-Liberty Tree Academy-IRR-DD.dwg CTB FILE: ---- PLOT DATE: 6/29/2018 1:53 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					
		FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001	DESIGNED BY: KC SCALE DRAWN BY: KC HORIZ. CHECKED BY: KJD VERT.	DATE ISSUED: JUNE 2018 SHEET 25 OF 29	DRAWING No. IR0



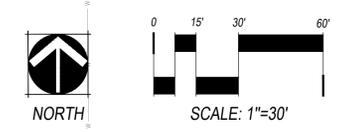
#1 POINT OF CONNECTION #1 - 1"
 PEAK FLOW REQUIREMENT: 18 GPM. REQUIRED STATIC PRESSURE: 81 PSI
 TIE ONTO 1" COPPER SUB-OUT DOWNSTREAM OF WATER METER AT 54" DEPTH IN THIS APPROXIMATE LOCATION. BY OTHERS RE: CIVIL PLAN. INSTALL ONE 1" METER PER PEYTON CITY OR COUNTY SPECIFICATIONS AND STANDARDS. EXTEND 1" TYPE K SOFT COPPER AT 54" MINIMUM DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 1" STOP AND WASTE VALVE, ONE 1" REDUCED PRESSURE BACKFLOW PREVENTER WITH PRESSURE REDUCING VALVE AND PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE FLOW SENSOR, ONE MASTER VALVE, ONE QUICK COUPLING VALVE, ONE GATE VALVE AND EXTEND P.V.C. MAINLINE AS SHOWN. SET PRV AT 86 PSI. EXTEND ONE PE89 SHIELDED CABLE FROM FLOW SENSOR TO DATA RETRIEVAL UNIT LOCATED IN ASSOCIATED CONTROLLER. EXTEND 4 UFUL14# WIRE (TWO ORANGE AND TWO BLUE) AND CONNECT 2 OF THE WIRES FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN ASSOCIATED CONTROLLER. SEE DETAIL SHEET FOR REQUIRED PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF FLOW SENSING UNIT. WORK SHALL CONFORM TO LOCAL CODE. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR. FINAL BACKFLOW PREVENTER LOCATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

A CONTROLLER LOCATION "A"
 PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT), REMOTE READY, AT INDICATED LOCATION. 120 VOLT POWER IS AVAILABLE WITHIN 40 LF. OF CONTROLLER LOCATION FROM BUILDING. BY OTHERS RE: ELECTRICAL PLANS. ELECTRICAL METER, WIRE/CONDUIT, STEP-DOWN TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. EXTEND PE89 SHIELDED CABLE FROM THE FLOW SENSOR AND 4 #14 UFUL WIRES (TWO BLUE AND TWO ORANGE) FROM MASTER VALVE TO ASSOCIATED CONTROLLER. CONNECT WIRES TO THE APPROPRIATE SENSOR INPUT PORTS. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. MOUNT ONE WEATHER SENSOR ON CONTROLLER ENCLOSURE WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL WEATHER SENSOR RECEIVER IN CONTROLLER ENCLOSURE. CONNECT SENSOR RECEIVER WIRES TO IRRIGATION CONTROLLER SENSOR PORT THROUGH CONDUIT. FINAL WEATHER SENSOR LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.



DIRECTORY

IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4



HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

REFERENCE DRAWINGS	DESCRIPTION	BY
LS01_SDP		
X:995-PR-LANDSCAPE-2		
X:995-EX-BASE		
X:995-EX-MAP		
X:995-MD-220-34		
X:995-PR-BASE		
X:995-PR-GRAD		
LTA OVERALL FIRST FLOOR PLAN 6-7-18		

No.	DATE	DESCRIPTION	REVISIONS	BY

COMPUTER FILE MANAGEMENT
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 CTB FILE: ---
 PLOT DATE: 6/29/2018 1:53 PM
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SHEET KEY

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PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

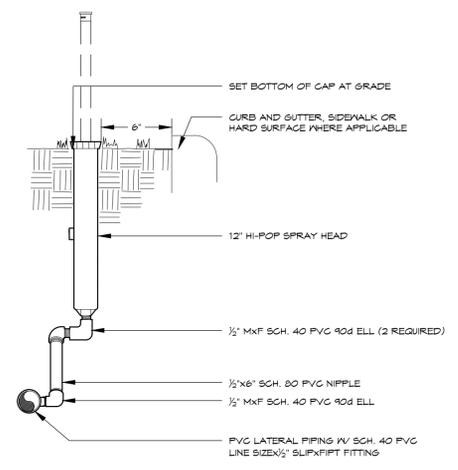
SEAL
PRELIMINARY
 THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

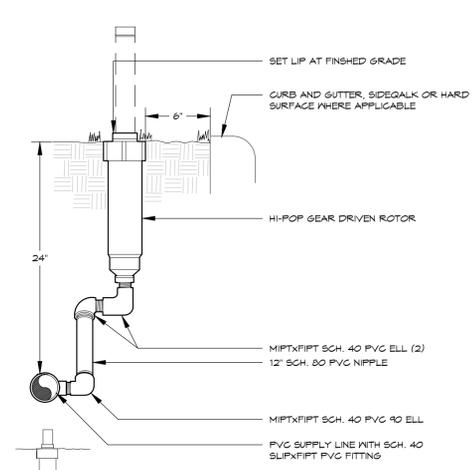
IRRIGATION PLAN

DESIGNED BY: KC	SCALE	DATE ISSUED: JUNE 2018	DRAWING No.
DRAWN BY: KC	HORIZ.	SHEET 26 OF 28	IR1
CHECKED BY: KJD	VERT.		



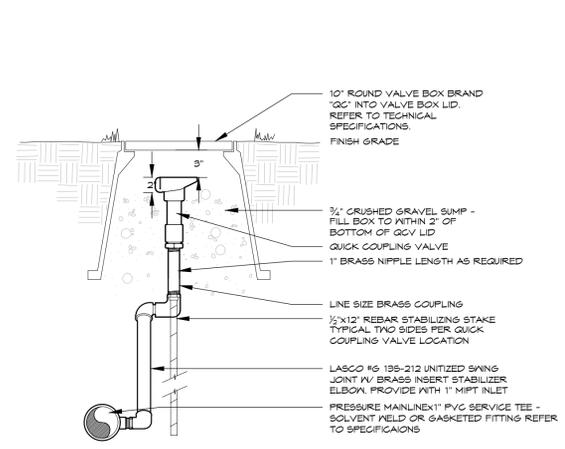
- NOTE:
- SET HEAD PERPENDICULAR TO FINISH GRADE SWING.
 - JOINT ASSEMBLY SHALL BE ATTACHED TO BOTTOM SPRAY HEAD INLET ONLY.
 - APPLY TEFLON TAPE TO ALL MALE PVC THREADED FITTINGS AND NIPPLES.

HI-POP SPRAY HEAD 1



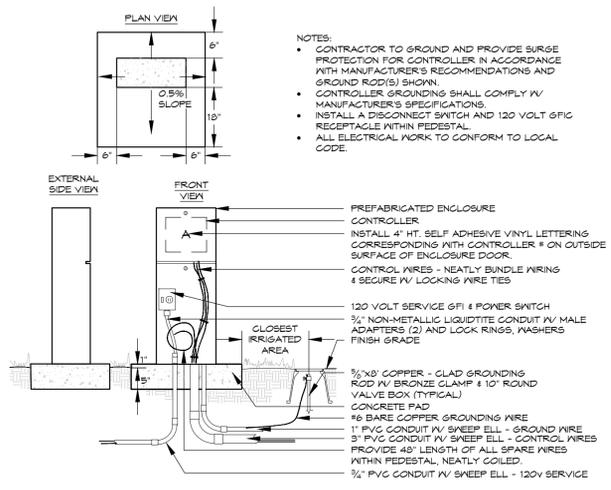
- NOTE:
- DIAMETERS OF FITTINGS AND NIPPLES SHALL BE EQUAL ROTOR INLET DIAMETER.
 - SET ROTOR PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLON TAPE ALL PVC MALE THREADED FITTINGS.

HI-POP GEAR DRIVEN ROTOR 2



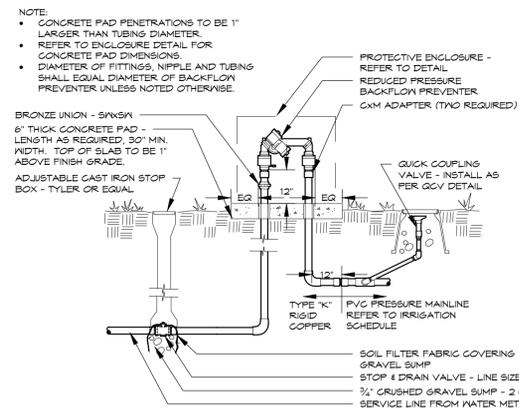
APPLY TEFLON TAPE TO ALL THREADED NIPPLES

QUICK COUPLING VALVE 3



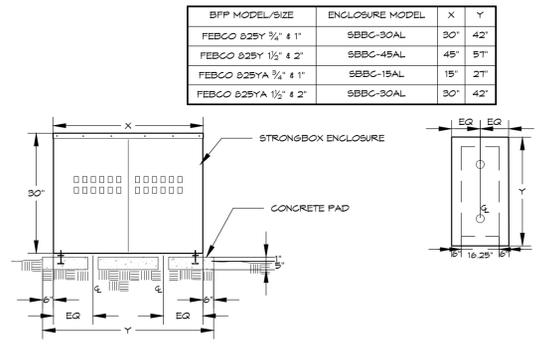
- NOTES:
- CONTRACTOR TO GROUND AND PROVIDE SURGE PROTECTION FOR CONTROLLER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND GROUND ROD(S) SHOWN.
 - CONTROLLER GROUNDING SHALL COMPLY W/ MANUFACTURER'S SPECIFICATIONS.
 - INSTALL A DISCONNECT SWITCH AND 120 VOLT GFI RECEPTACLE WITHIN PEDESTAL.
 - ALL ELECTRICAL WORK TO CONFORM TO LOCAL CODE.

ELECTRIC CONTROLLER PEDESTAL 4



- NOTE:
- CONCRETE PAD PENETRATIONS TO BE 1\"/>

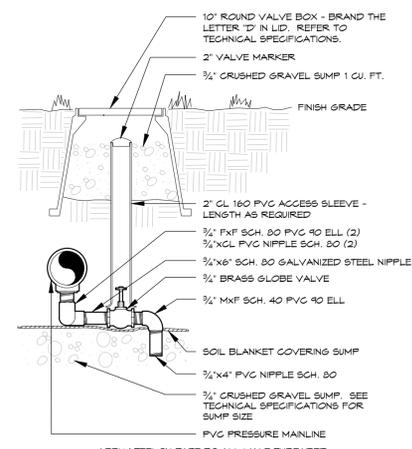
BACKFLOW PREVENTER 5
3/4\" - 2\" SYSTEMS WITH PVC CONNECTION



BFP MODEL/SIZE	ENCLOSURE MODEL	X	Y
FEBCO 825Y 3/4\" x 1\"	SBBG-30AL	30\"	42\"
FEBCO 825Y 1/2\" x 2\"	SBBG-45AL	45\"	51\"
FEBCO 825YA 3/4\" x 1\"	SBBG-15AL	15\"	21\"
FEBCO 825YA 1/2\" x 2\"	SBBG-30AL	30\"	42\"

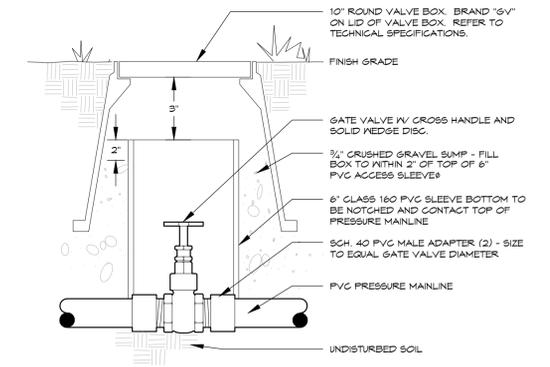
- NOTES:
- PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1\"/>

BACKFLOW ENCLOSURE 6
STRONGBOX - 3/4\" - 2\" SYSTEMS



APPLY TEFLON TAPE TO ALL MALE THREADED PVC FITTINGS AND ALL NIPPLES

MANUAL DRAIN VALVE 7

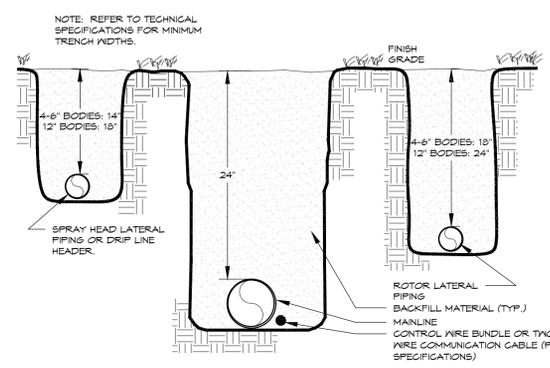


GATE VALVE 8

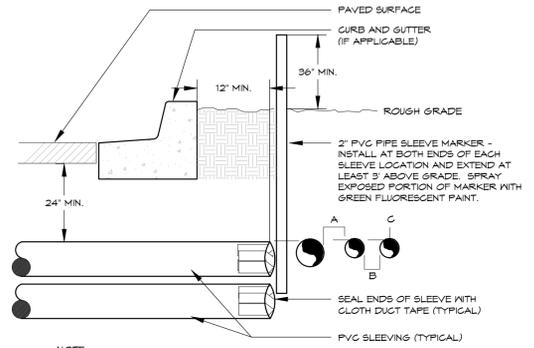
- DIRECTORY**
- IRRIGATION NOTES IR0
 - IRRIGATION SCHEDULE IR1
 - IRRIGATION PLANS IR2
 - IRRIGATION DETAILS IR3 - IR4

HydroSystems-KDI, Inc. Irrigation Consulting
860 Tabor Street, Suite 200
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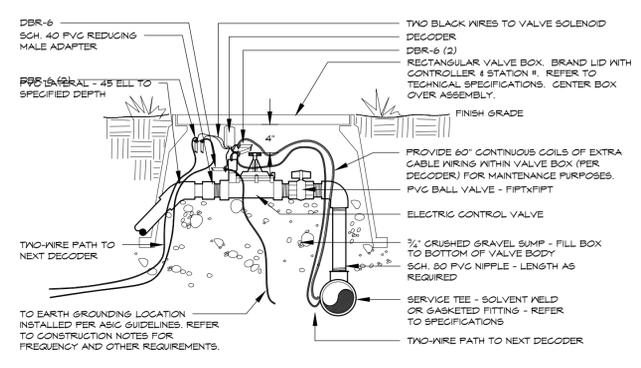
<p>REFERENCE DRAWINGS</p> <p>LS01-SDP X:995-PR-LANDSCAPE-2 X:995-EX-BASE X:995-EX-MAP X:995-MD-020-34 X:995-PR-BASE X:995-PR-GRAD LTA OVERALL FIRST FLOOR PLAN 6-7-18</p>	<p>DESCRIPTION</p> <p>COMPUTER FILE MANAGEMENT</p> <p>FILE NAME: T:10-NEW WORK\6xxx-Liberty Tree Academy\6xxx-Liberty Tree Academy-IRR-DD.dwg CTB FILE: ---- PLOT DATE: 6/29/2018 1:53 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.</p>	<p>SHEET KEY</p>	<p>PREPARED FOR:</p> <p>LIBERTY TREE ACADEMY</p> <p>PREPARED BY:</p> <p>Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY</p>	<p>SEAL</p> <p>PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</p>	<p>LIBERTY TREE ACADEMY</p> <p>TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS</p> <p>IRRIGATION DETAILS</p>
<p>No. DATE</p>	<p>BY</p>	<p>SCALE</p> <p>DATE ISSUED: JUNE 2018</p> <p>SHEET 27 OF 29</p>	<p>FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001</p>	<p>DESIGNED BY: KC DRAWN BY: KC CHECKED BY: KJD</p>	<p>DRAWING No. IR2</p>



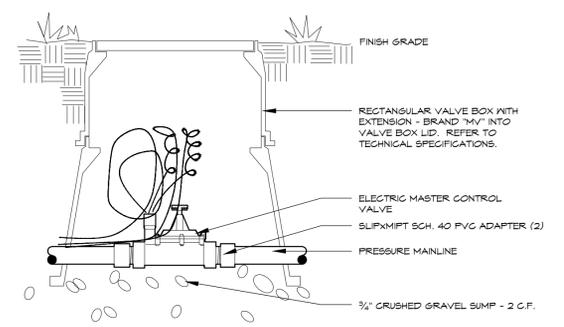
TRENCH
24" MAINLINE 9



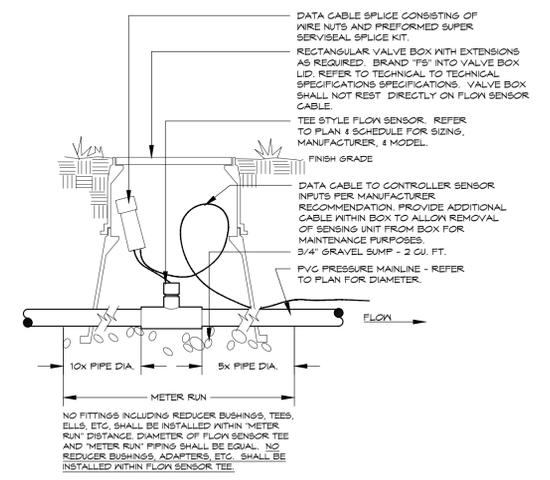
IRRIGATION SLEEVING 10



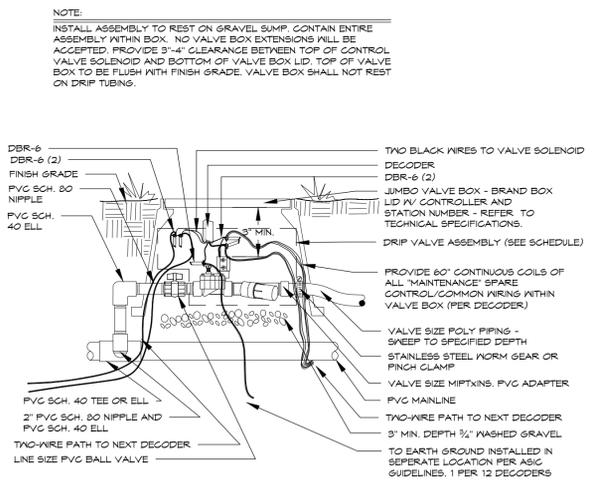
ELECTRIC CONTROL VALVE
TWO-WIRE SYSTEM - PVC PIPE 11



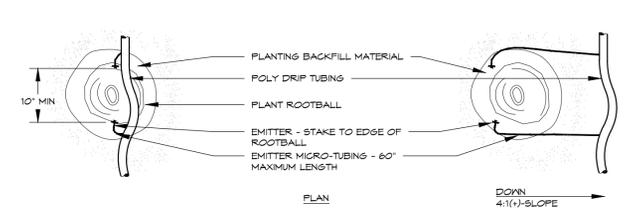
MASTER VALVE
24V - Small - Typical 12



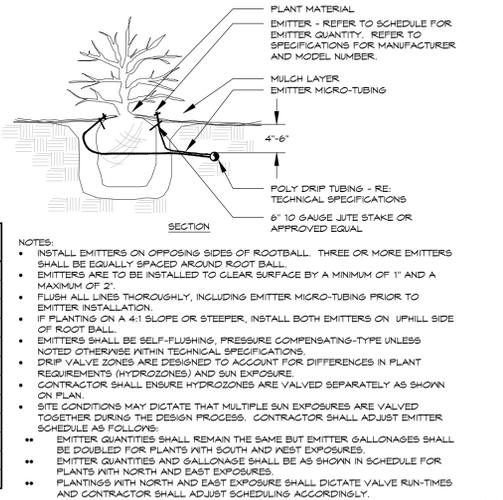
FLOW SENSOR
VIA DATA CABLE - TEE STYLE 13



DRIP VALVE
TWO-WIRE SYSTEM - KIT - POLY PIPE 14



PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
3 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1 1/2" GALIFER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" GALIFER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2" GALIFER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" GALIFER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2" GALIFER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" GALIFER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH



DRIP EMITTER
BELOW GRADE 15

DIRECTORY

IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4

REF. NO.	DATE	DESCRIPTION	BY

COMPUTER FILE MANAGEMENT

FILE NAME: T:10-NEW WORK\6xxx-Liberty Tree Academy\6xxx-Liberty Tree Academy-IRR-DD.dwg
 CTB FILE: ---
 PLOT DATE: 6/29/2018 1:53 PM
 THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

NO.	DATE	DESCRIPTION	BY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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

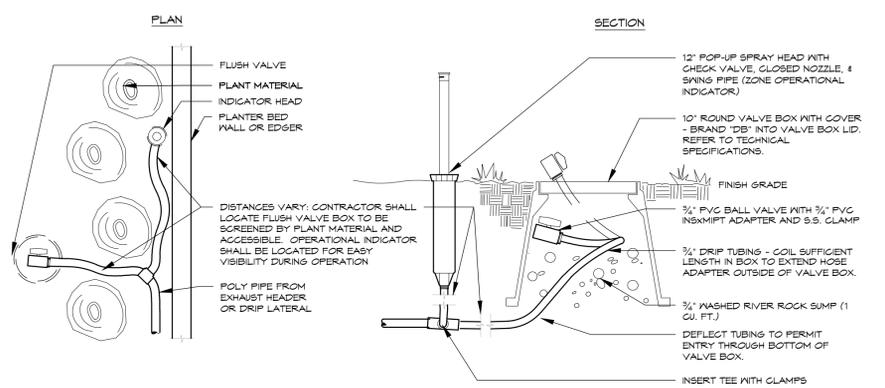
LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

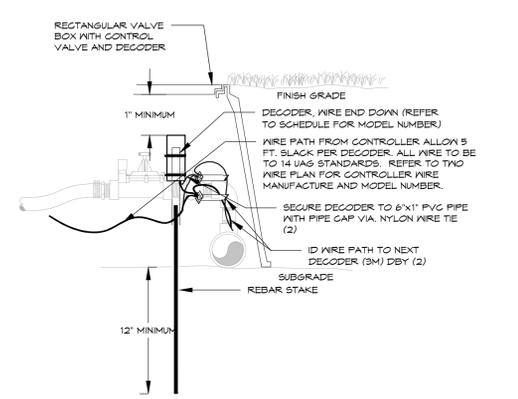
IRRIGATION DETAILS

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CHECKED BY: KJD	VERT.		

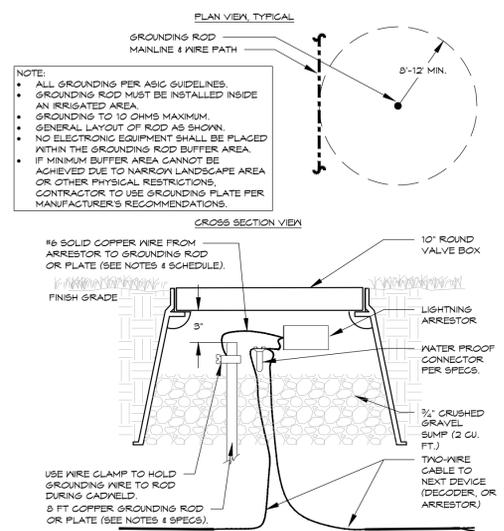
HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)



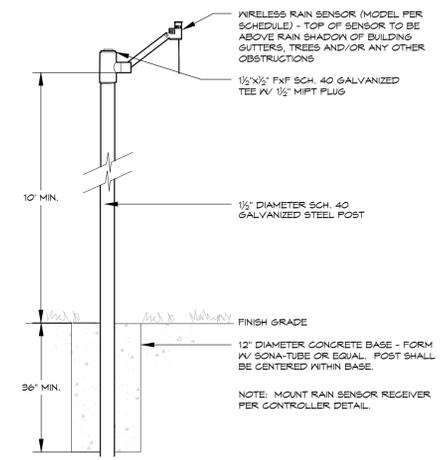
DRIP FLUSH VALVE WITH OPERATIONAL INDICATOR 16



DECODER INSTALLATION TWO-WIRE SYSTEM 17



ARRESTOR GROUNDING TWO-WIRE SYSTEM - TYPICAL 18



WEATHER SENSOR POLE MOUNTED - Wireless 19

DIRECTORY

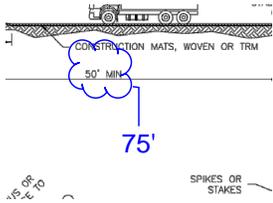
IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4

HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
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<p>REFERENCE DRAWINGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>LS01 - SDP</td> <td></td> </tr> <tr> <td>X:995-PR-LANDSCAPE-2</td> <td></td> </tr> <tr> <td>X:995-EX-BASE</td> <td></td> </tr> <tr> <td>X:995-EX-MAP</td> <td></td> </tr> <tr> <td>X:995-MD520-34</td> <td></td> </tr> <tr> <td>X:995-PR-BASE</td> <td></td> </tr> <tr> <td>X:995-PR-GRAD</td> <td></td> </tr> <tr> <td>LTA OVERALL FIRST FLOOR PLAN 6-7-18</td> <td></td> </tr> </table>	LS01 - SDP		X:995-PR-LANDSCAPE-2		X:995-EX-BASE		X:995-EX-MAP		X:995-MD520-34		X:995-PR-BASE		X:995-PR-GRAD		LTA OVERALL FIRST FLOOR PLAN 6-7-18		<p>SHEET KEY</p>	<p>PREPARED FOR:</p> <p>LIBERTY TREE ACADEMY</p> <p>PREPARED BY:</p> <p>Matrix DESIGN GROUP <small>AN EMPLOYEE-OWNED COMPANY</small></p>	<p>SEAL</p> <p>PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</p>	<p>LIBERTY TREE ACADEMY</p> <p>TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS</p> <p>IRRIGATION DETAILS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY: KC</td> <td>SCALE</td> <td>DATE ISSUED: JUNE 2018</td> <td>DRAWING No.</td> </tr> <tr> <td>DRAWN BY: KC</td> <td>HORIZ.</td> <td>SHEET 29 OF 29</td> <td>IR4</td> </tr> <tr> <td>CHECKED BY: KD</td> <td>VERT.</td> <td></td> <td></td> </tr> </table>	DESIGNED BY: KC	SCALE	DATE ISSUED: JUNE 2018	DRAWING No.	DRAWN BY: KC	HORIZ.	SHEET 29 OF 29	IR4	CHECKED BY: KD	VERT.		
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REVISIONS																																	

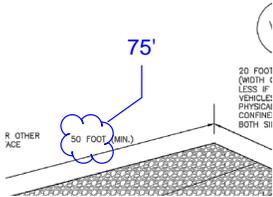
Markup Summary

dsdlaforce (42)



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Author: dsdlaforce
Date: 7/24/2018 1:17:23 PM
Color: ■

75'



Subject: Cloud+
Page Label: [14] ECDT01 ECDT01
Author: dsdlaforce
Date: 7/24/2018 1:17:23 PM
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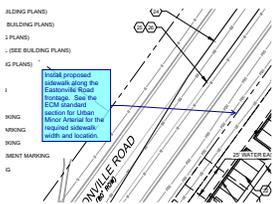
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Unresolved
07/24/2018

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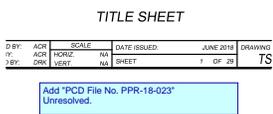


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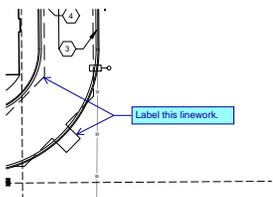
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Author: dsdlaforce
Date: 7/24/2018 1:34:23 PM
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Install proposed sidewalk along the Eastonville Road frontage. See the ECM standard section for Urban Minor Arterial for the required sidewalk width and location.



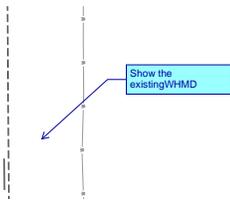
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Author: dsdlaforce
Date: 7/24/2018 11:32:28 AM
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Label this linework.



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Page Label: [4] SP01 SP01
Author: dsdlaforce
Date: 7/24/2018 11:33:48 AM
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Show the existing WHMD

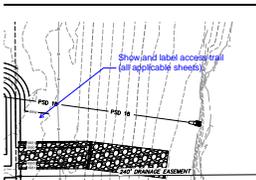


Subject: Text Box
Page Label: [6] GR01 GR01
Author: dsdlaforce
Date: 7/24/2018 11:37:23 AM
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Show channel cross-section locations and approximate 100-year water surface and depth (all applicable plans).



Subject: Unresolved
Page Label: [6] GR01 GR01
Author: dsdlaforce
Date: 7/24/2018 11:37:41 AM
Color: ■

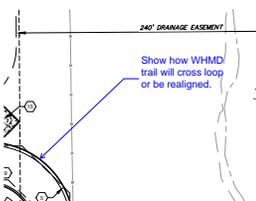


Subject: Callout
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Author: dsdlaforce
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Show and label access trail (all applicable sheets).



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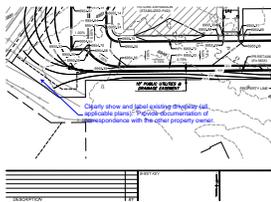


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Page Label: [4] SP01 SP01
Author: dsdlaforce
Date: 7/24/2018 11:38:02 AM
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Show how WHMD trail will cross loop or be realigned.



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Date: 7/24/2018 11:38:06 AM
Color: ■

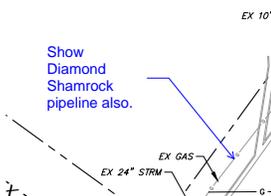


Subject: Callout
Page Label: [6] GR01 GR01
Author: dsdlaforce
Date: 7/24/2018 11:39:22 AM
Color: ■

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



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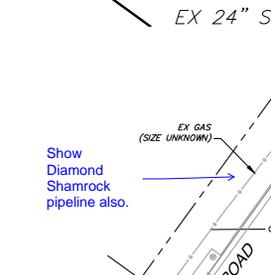


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Show Diamond Shamrock pipeline also.



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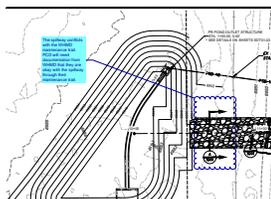


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Show Diamond Shamrock pipeline also.

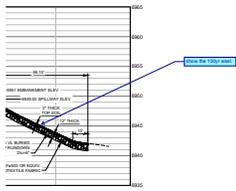


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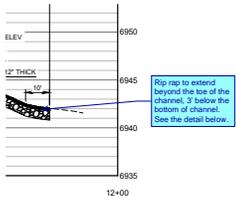
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Author: dsdlaforce
Date: 7/24/2018 11:53:40 AM
Color: ■

The spillway conflicts with the WHMD maintenance trail. PCD will need documentation from WHMD that they are okay with the spillway through their maintenance trail.



Subject: Callout
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Author: dsdlaforce
Date: 7/24/2018 11:56:05 AM
Color: ■

show the 100yr wsel.



Subject: Callout
Page Label: [10] SD01 SD01
Author: dsdlaforce
Date: 7/24/2018 12:04:40 PM
Color: ■

Rip rap to extend beyond the toe of the channel, 3' below the bottom of channel. See the detail below.

44) IN ADDITION TO THE REQUIREMENTS INCLUDED IN ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE E FLOORPLANS FOR FUTURE OUTS ETC IN THE 3MENTS AND LAWS, RULES, OR REGULATIONS OF THE MORE RESTRICTIVE LAWS, RULES, OR

THE SITE AT APPROVED CONSTRUCTION ACCESS

EE SHALL VERIFY THE LOCATION OF EXISTING

DURING EARTHWORK OPERATIONS AND UTILIZED AS EQUIPMENT AND VEH

DRIVED BY AND SHALL BE CONSIDERED A

START OF CONSTRUCTION, FOR PROJECTS THAT OPERATOR OF CONSTRUCTION ACTIVITY SHALL IN DISCHARGE TO THE COLORADO DEPARTMENT OF CITY ENGINEER, THE APPLICATION OF THIS THE MANAGEMENT PLAN (MMP) OF WHICH THIS A PART FOR INFORMATION ON APPLICATION

MENT OF PUBLIC HEALTH AND ENVIRONMENT

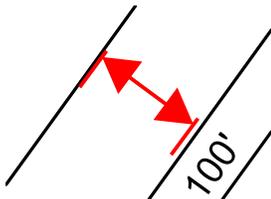
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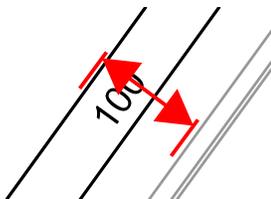


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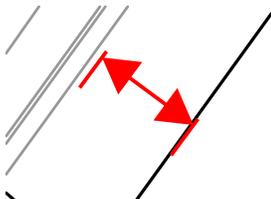
Remove. Signature blocks are already included in the cover sheet.



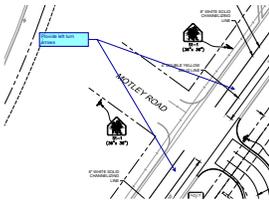
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Date: 7/24/2018 2:06:15 PM
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Date: 7/24/2018 2:06:23 PM
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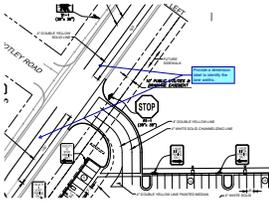


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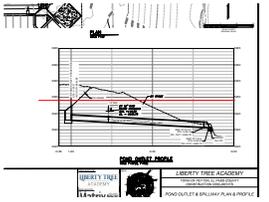
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Provide left turn arrows

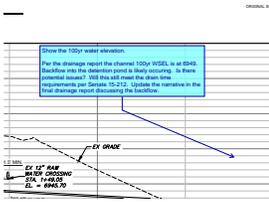


Subject: Callout
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Author: dsdlaforce
Date: 7/24/2018 2:13:21 PM
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Provide a dimension label to identify the lane widths .



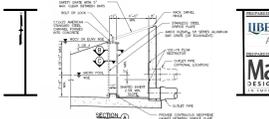
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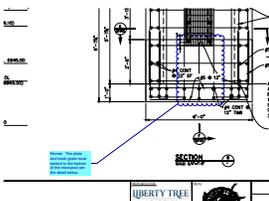
Subject: Callout
Page Label: [10] SD01 SD01
Author: dsdlaforce
Date: 7/24/2018 3:46:02 PM
Color: ■

Show the 100yr water elevation.

Per the drainage report the channel 100yr WSEL is at 6949. Backflow into the detention pond is likely occurring. Is there potential issues? Will this still meet the drain time requirements per Senate 15-212. Update the narrative in the final drainage report discussing the backflow.



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Page Label: [20] SDT01 SDT01
Author: dsdlaforce
Date: 7/24/2018 4:09:40 PM
Color: ■

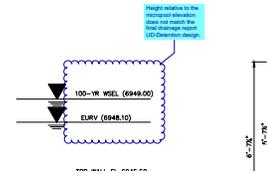


Subject: Cloud+
Page Label: [20] SDT01 SDT01
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Date: 7/24/2018 4:09:50 PM
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Revise. The plate and trash grate must extend to the bottom of the micropool per the detail below.

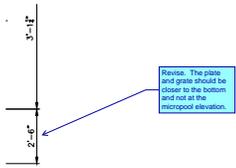


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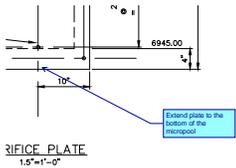
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Page Label: [20] SDT01 SDT01
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Date: 7/24/2018 4:13:05 PM
Color: ■

Height relative to the micropool elevation does not match the final drainage report UD-Detention design.



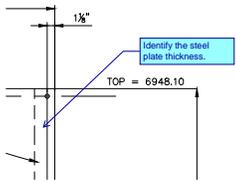
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Revise. The plate and grate should be closer to the bottom and not at the micropool elevation.



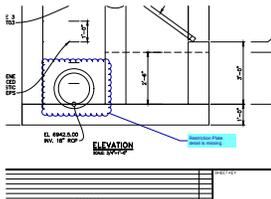
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Extend plate to the bottom of the micropool



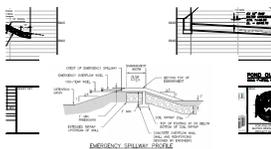
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Identify the steel plate thickness.



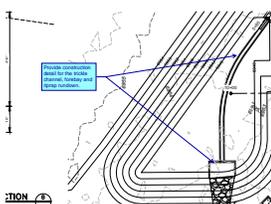
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Restriction Plate detail is missing.



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Author: dsdlaforce
Date: 7/24/2018 4:36:16 PM
Color: ■

Provide construction detail for the trickle channel, forebay and riprap rundown.



Subject: Callout
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Author: dsdlaforce
Date: 7/24/2018 4:39:55 PM
Color: ■

Provide construction detail for the trickle channel, forebay and riprap rundown.