

LIBERTY TREE ACADEMY

CONSTRUCTION DOCUMENTS

TOWN OF PEYTON, EL PASO COUNTY

FINAL FOR CONSTRUCTION

SEPTEMBER 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

CIVIL ENGINEER

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
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: 303-572-0202
CONTACT: TERESA ROBERSON
TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:

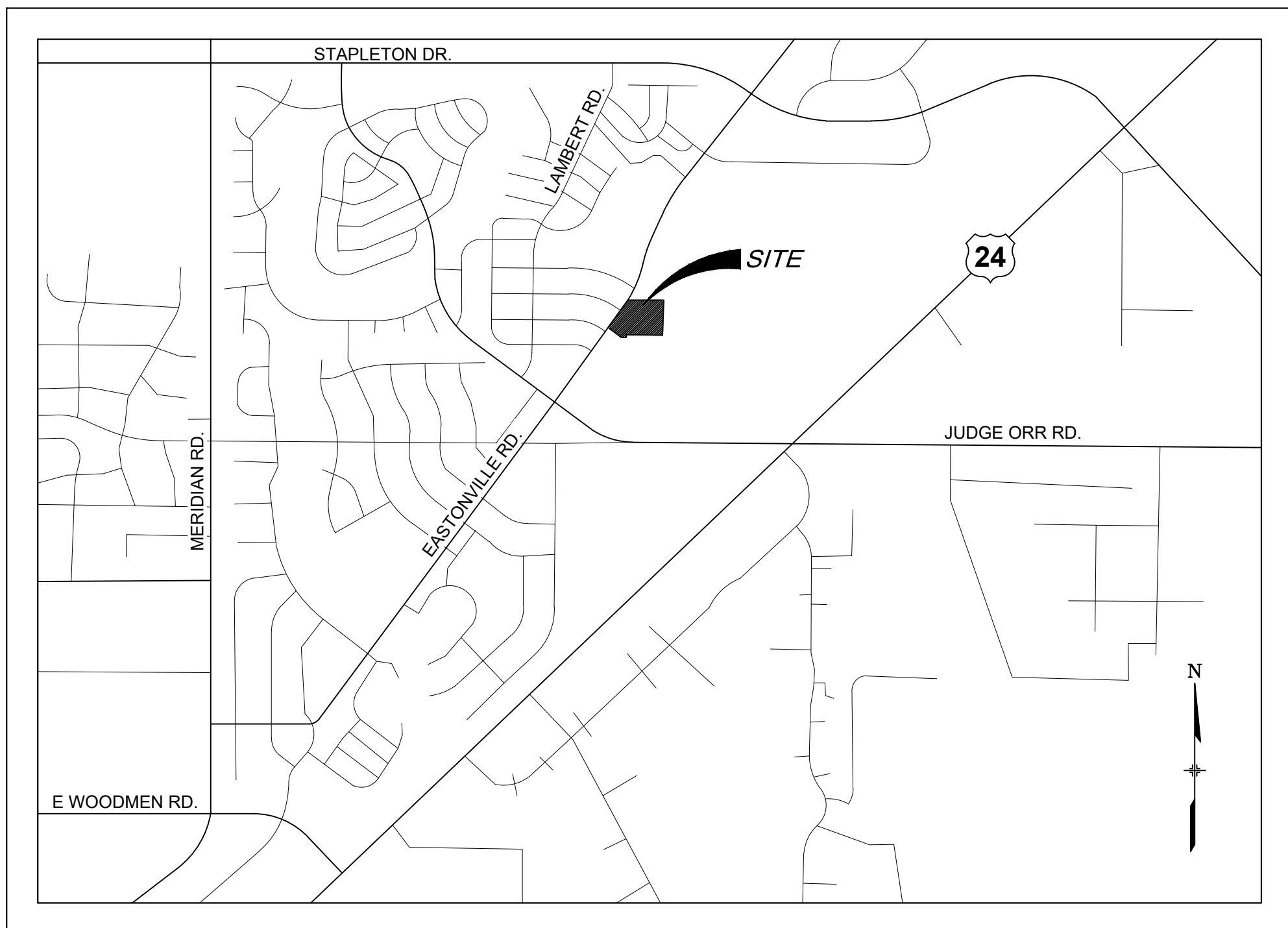
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:

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

BENCHMARK:

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



LOCATION MAP

SCALE: N.T.S.

DESIGN ENGINEER'S STATEMENT:

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

DAVID KLINE, P.E., PTOE

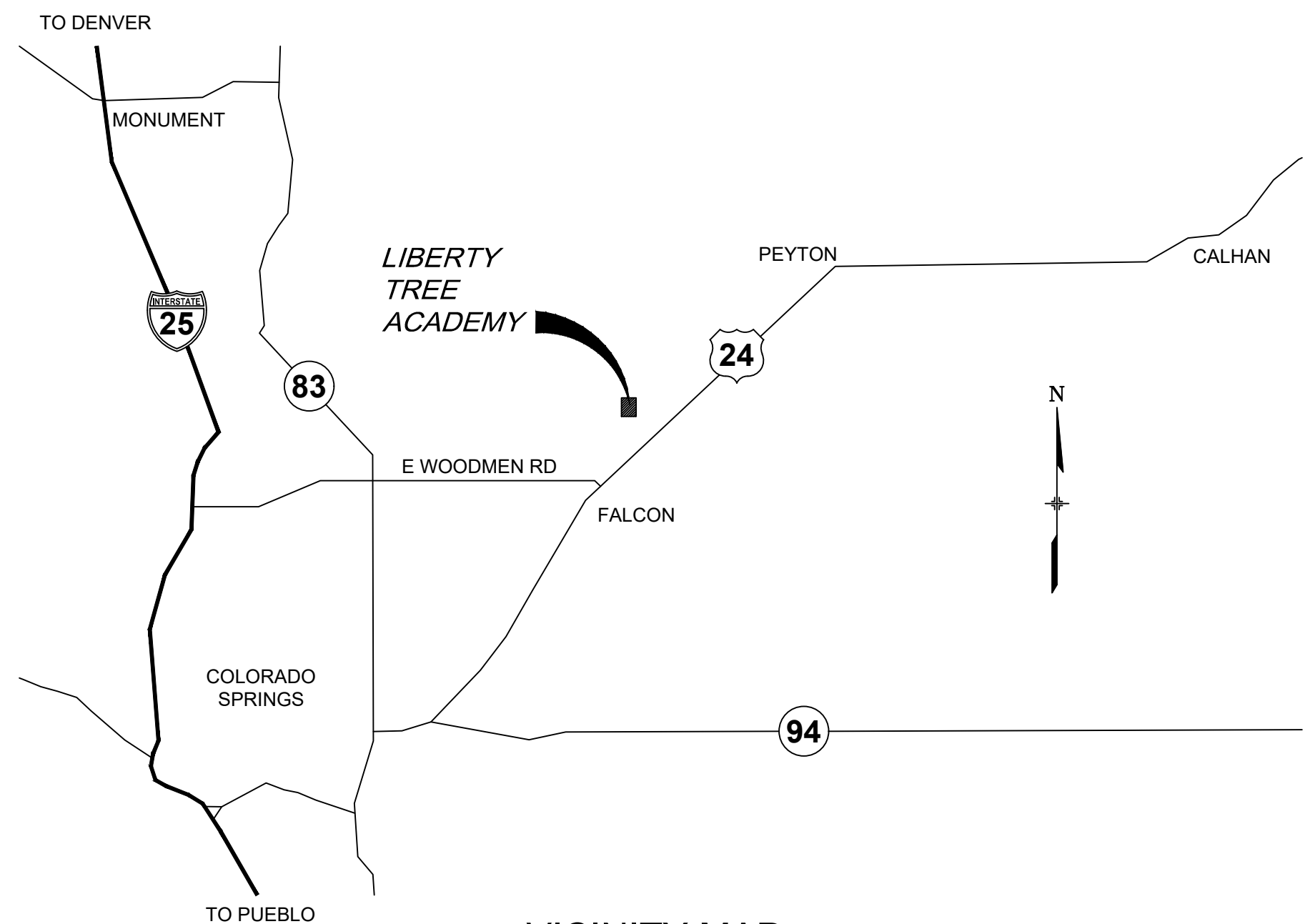
9/11/2018
DATE

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 BUILDING CORPORATION

9/11/2018
DATE



VICINITY MAP

SCALE: N.T.S.

EL PASO COUNTY:

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

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

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

JENNIFER IRVINE, P.E.

DATE

FALCON FIRE DEPARTMENT:

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

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

FIRE DEPARTMENT SIGNATURE

DATE

REFERENCE
DRAWINGS

X-995-MD022x34

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\TS01.dwg			
CTB FILE: ----			
PLOT DATE: September 11, 2018 9:11:37 AM			
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, PCD FILE NO. PPR-18-023

TITLE SHEET

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

GENERAL CONSTRUCTION PLAN NOTES:

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

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

DESIGNED BY:	ACR	SCALE		DATE ISSUED:	SEPTEMBER 2018	DRAWING No. GN01
DRAWN BY:	ACR	HORIZ.	NA			
CHECKED BY:	DRK	VERT.	NA	SHEET	2 OF 29	

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
ℳ 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
¢ 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	ℓ 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
ℓ 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	HOURL	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

X-995-MD022x34

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: 9/11/2018 8:40 AM			
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

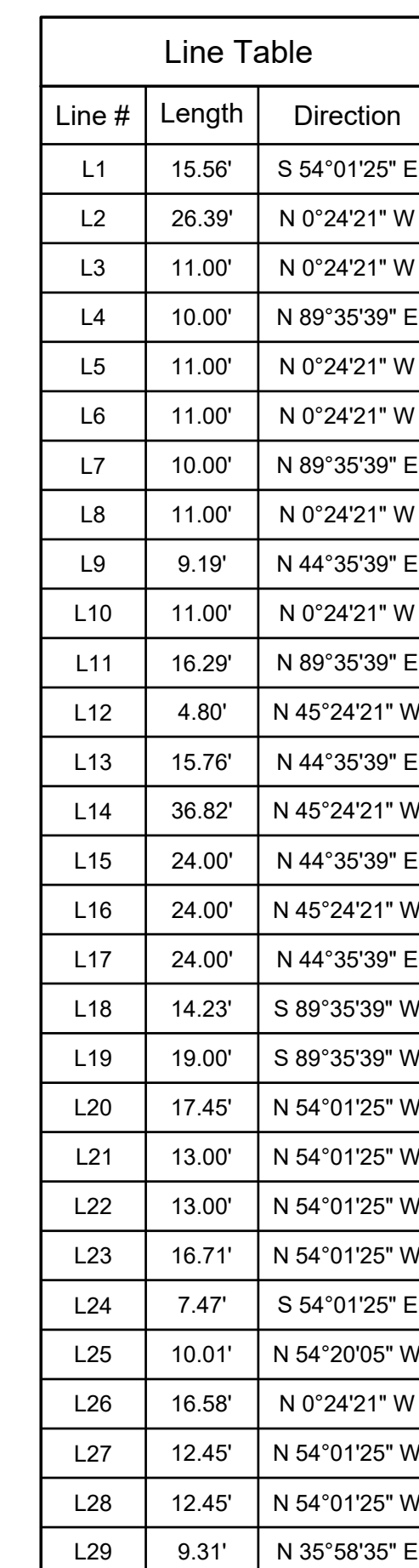
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

LEGEND & ABBREVIATIONS

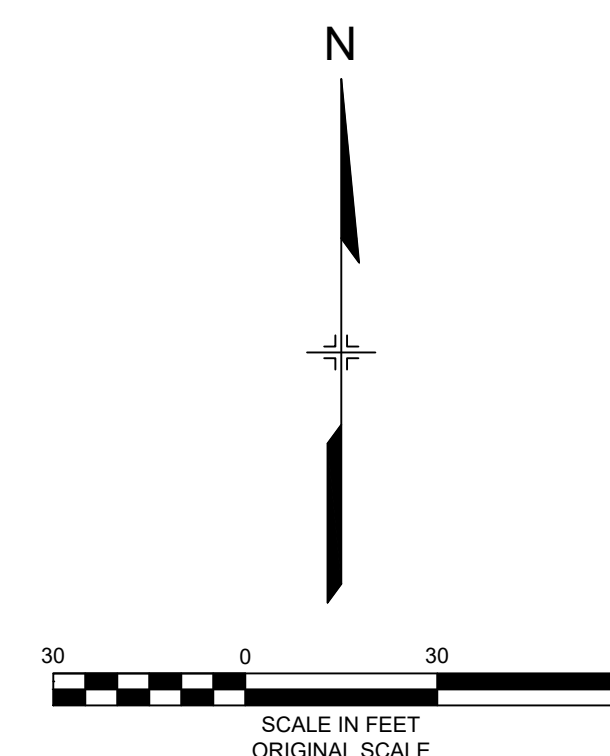
DESIGNED BY:	ACR	SCALE	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	NA		LA01
CHECKED BY:	DRK	VERT.	NA	SHEET 3 OF 29	

LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023			
SITE PLAN			
DESIGNED BY: DRAWN BY: CHECKED BY:	ACR ACR RJK	SCALE HORIZ. 1" = 30'	DATE ISSUED: SEPTEMBER 2018 SHEET 4 OF 29
			DRAWING No. SP01

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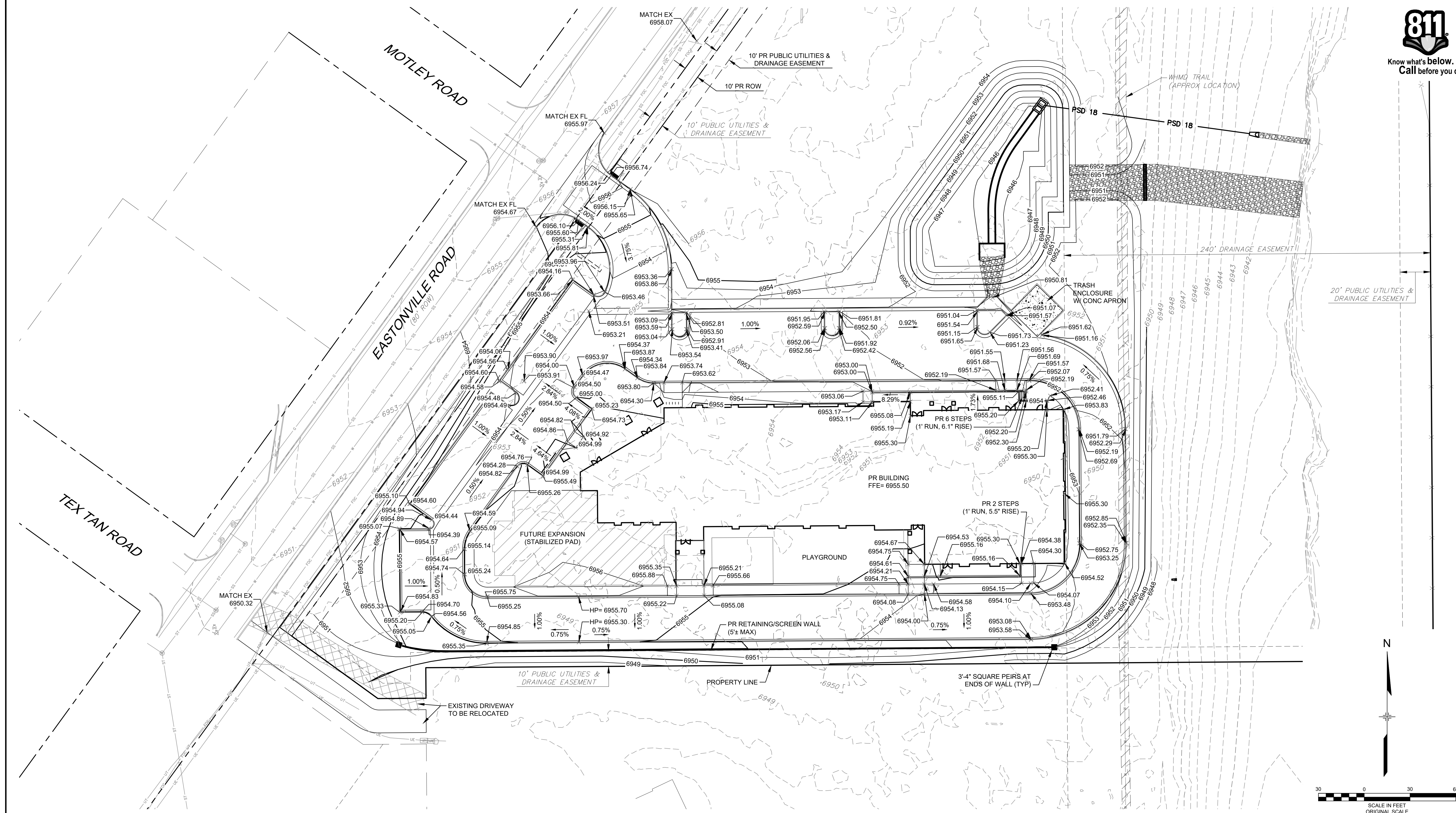


Curve Table					
Curve	Length	Radius	Delta	Chord Bearing	Chord
C1	31.43'	20.00'	90°01'37"	S 9°00'37" E	28.29'
C2	60.83'	65.00'	53°37'04"	N 27°12'53" W	58.63'
C3	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C4	15.71'	5.00'	180°00'03"	N 89°35'38" E	10.00'
C5	11.78'	5.00'	135°00'00"	S 67°54'21" E	9.24'
C6	2.22'	1.00'	127°01'145"	S 18°55'10" E	1.79'
C7	89.48'	62.50'	82°01'141"	N 41°25'12" W	82.03'
C8	98.17'	62.50'	90°00'00"	N 44°35'39" E	88.39'
C9	41.32'	45.00'	52°36'57"	S 64°05'53" E	39.89'
C10	7.35'	8.00'	52°36'57"	N 64°05'53" W	7.09'
C11	8.77'	3.50'	143°37'04"	N 17°47'07" E	6.65'
C12	15.71'	5.00'	180°00'03"	N 35°58'36" E	10.00'
C13	9.12'	5.15'	101°24'49"	N 75°16'10" E	7.97'
C14	48.02'	35.00'	78°36'32"	N 14°43'09" W	44.34'
C15	31.42'	20.00'	90°00'18"	S 80°58'26" W	28.29'
C16	31.31'	20.00'	89°41'20"	S 80°49'15" W	28.21'
C17	11.33'	18.00'	36°04'16"	S 72°22'13" E	11.15'
C18	51.05'	32.50'	90°00'00"	N 45°24'21" W	45.96'
C19	51.05'	32.50'	90°00'00"	N 44°35'39" E	45.96'
C20	23.56'	15.00'	90°00'00"	S 45°24'21" E	21.21'
C21	12.70'	20.00'	36°22'56"	S 17°47'07" W	12.49'
C22	7.85'	5.00'	90°00'00"	S 80°58'35" W	7.07'
C23	7.85'	5.00'	90°00'00"	S 9°01'25" E	7.07'

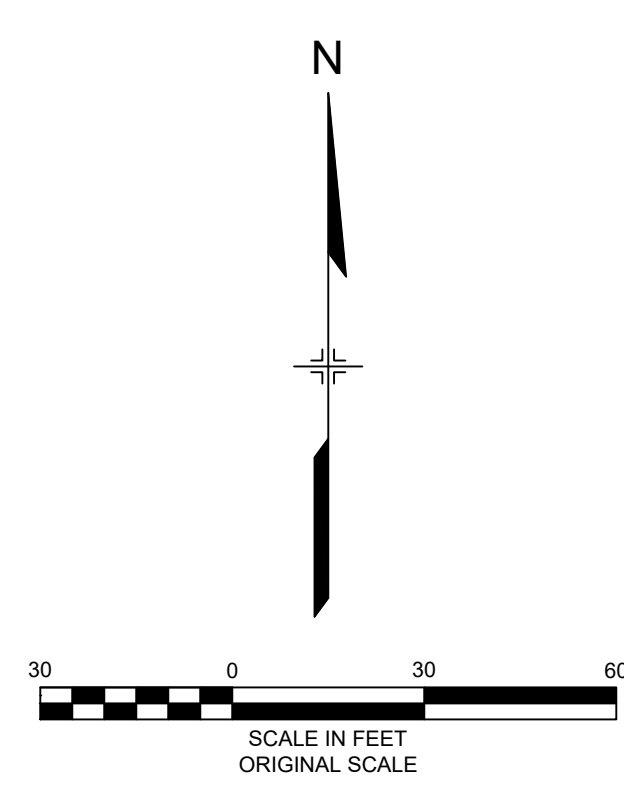
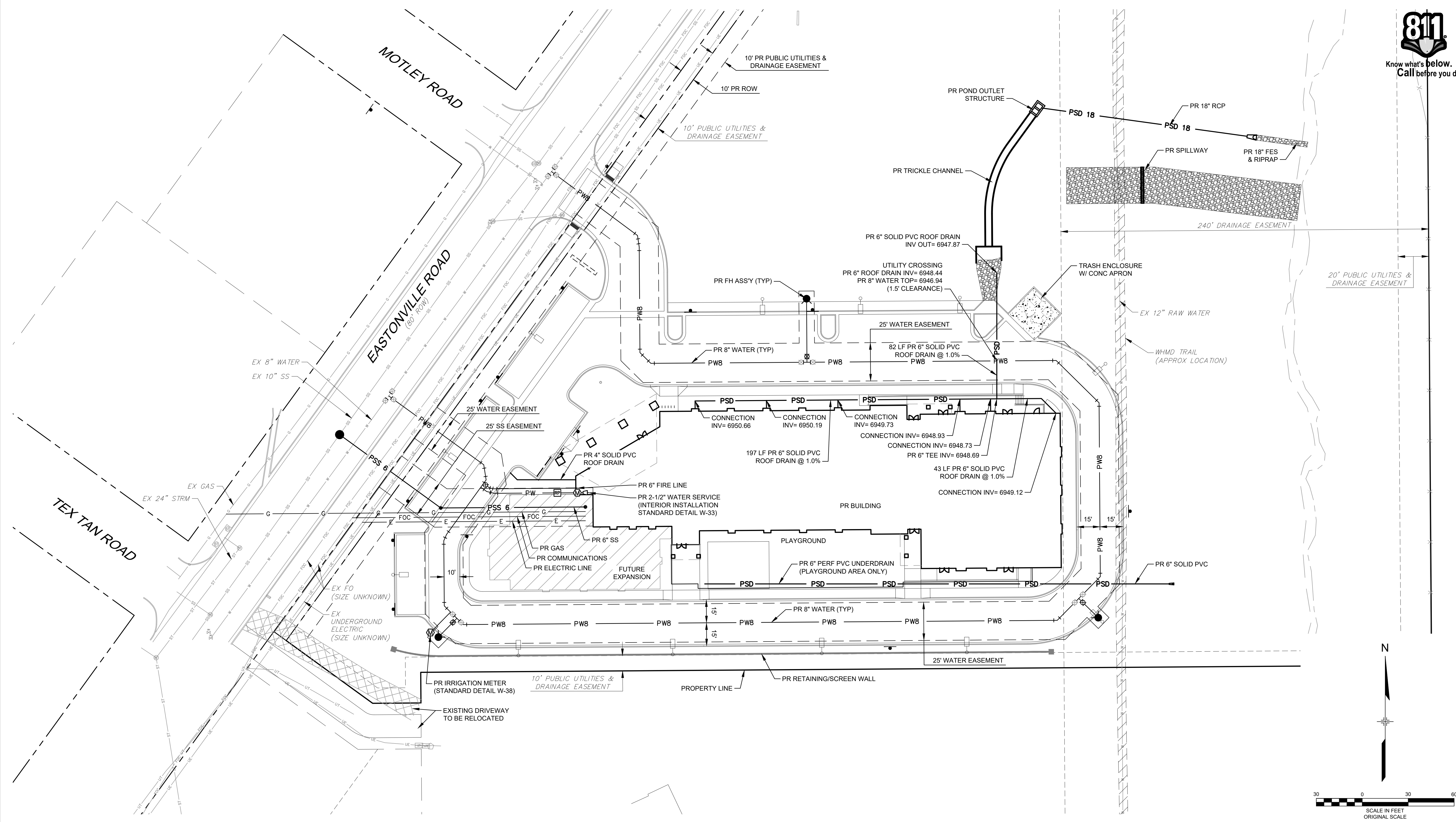
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Know what's below.
Call before you dig.



REFERENCE DRAWINGS		SHEET KEY		PREPARED FOR: LIBERTY TREE ACADEMY	SEAL 	LIBERTY TREE ACADEMY	
X-995-MDQ22x34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-UTIL X-995-PR-GRAD				PREPARED BY: Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY		TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023	
No.	DATE	DESCRIPTION REVISIONS	BY			GRADING PLAN	
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REFERENCE DRAWINGS		SHEET KEY		LIBERTY TREE ACADEMY	
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No.	DATE	DESCRIPTION	BY	OVERALL UTILITY PLAN	
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CTB FILE: ---				CHECKED BY: DRK	
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				VERT. NA	
				DATE ISSUED: SEPTEMBER 2018	
				SHEET 7 OF 28	
				DRAWING No. UT01	

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

DRAWN BY: ACR

CHECKED BY: DRK

SCALE

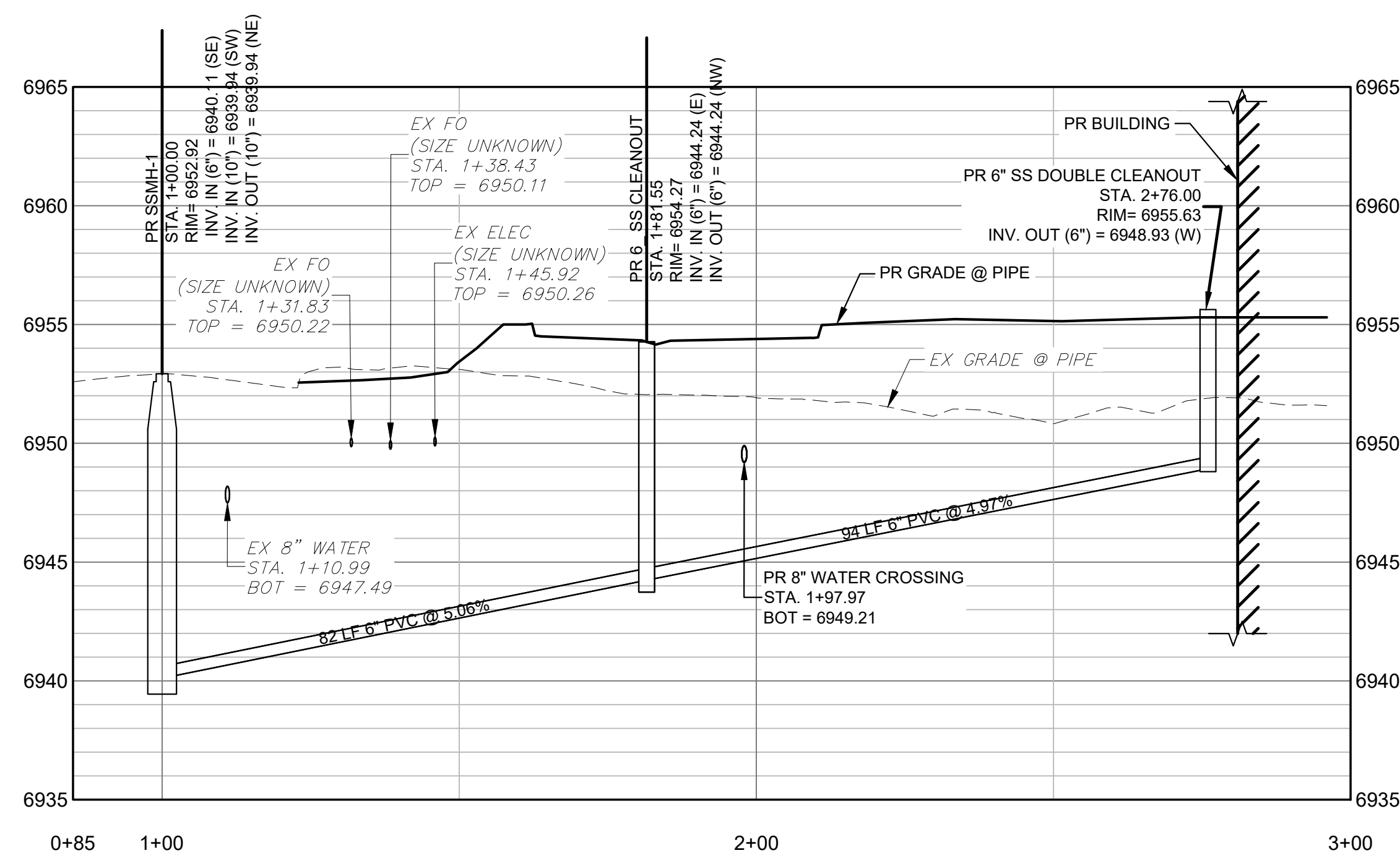
HORIZ. 1" = 30'

VERT. NA

DATE ISSUED: SEPTEMBER 2018

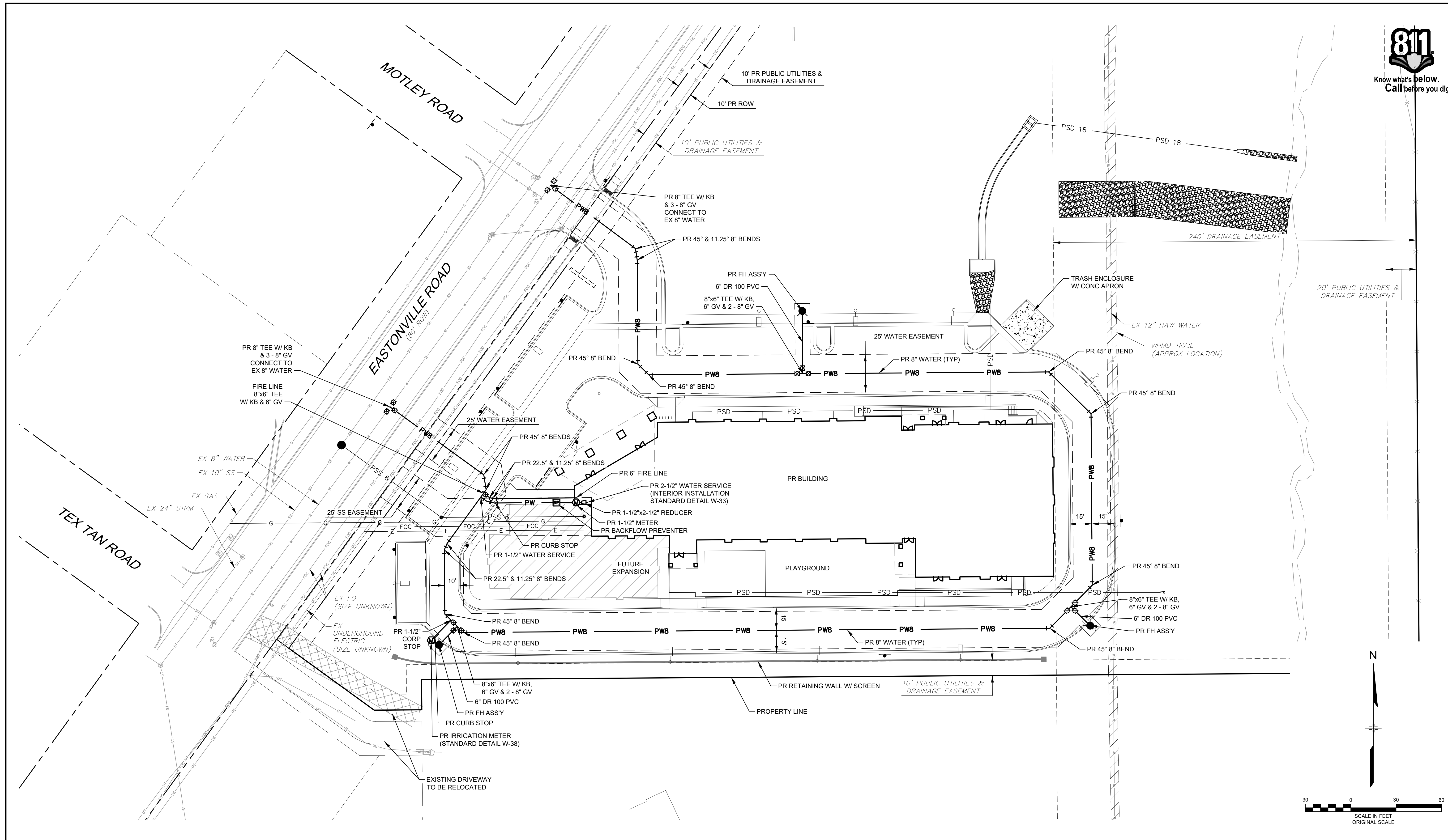
SHEET 7 OF 28

DRAWING No. UT01

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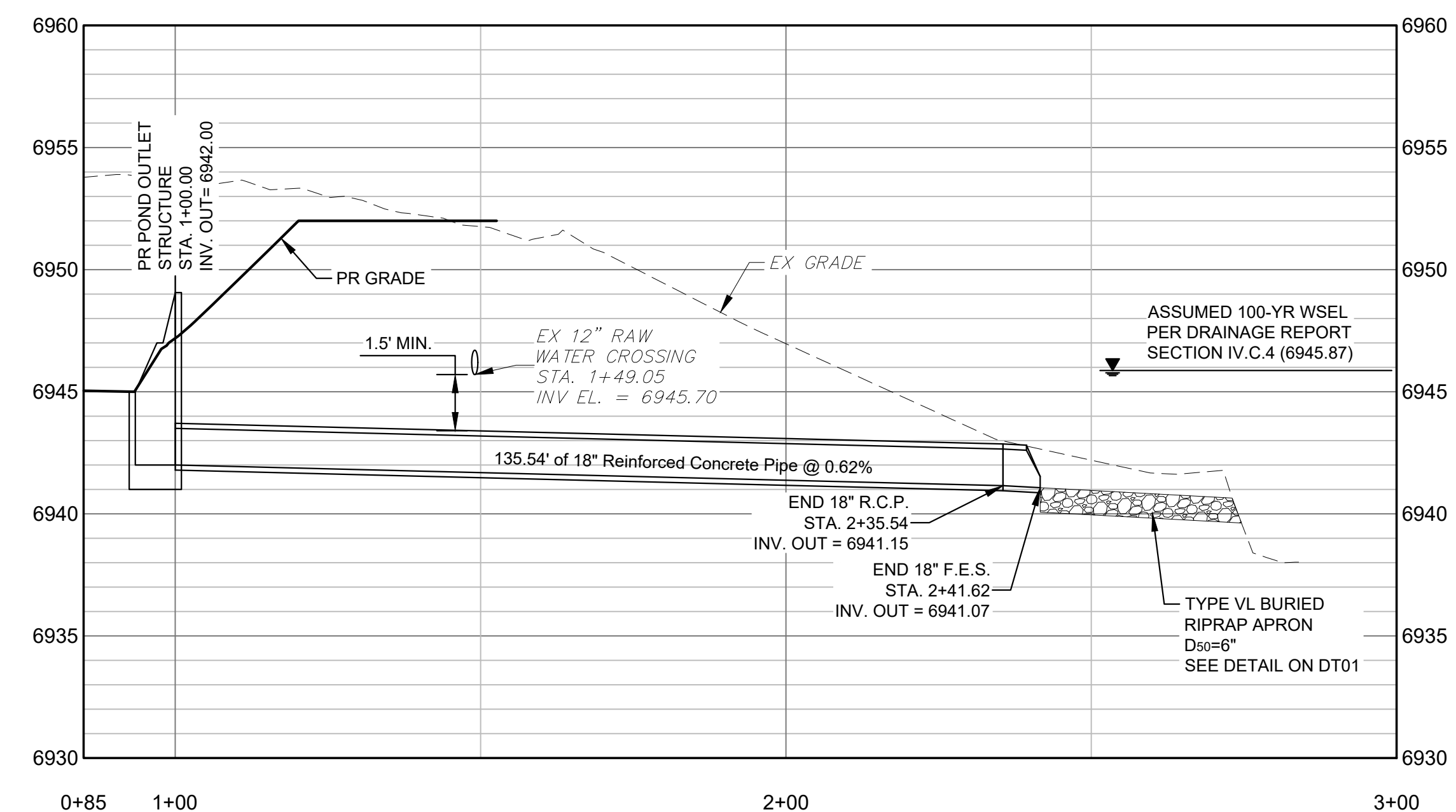
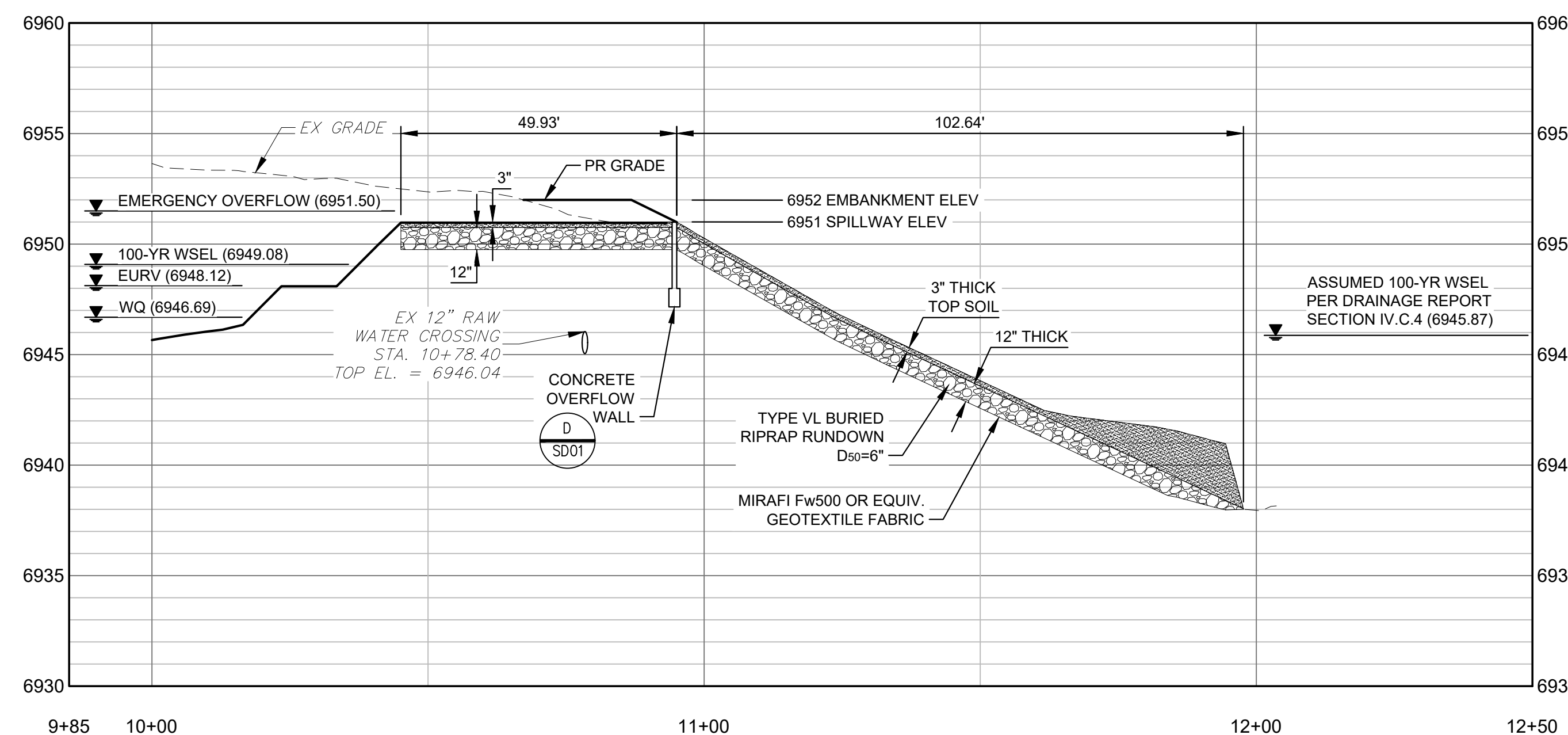
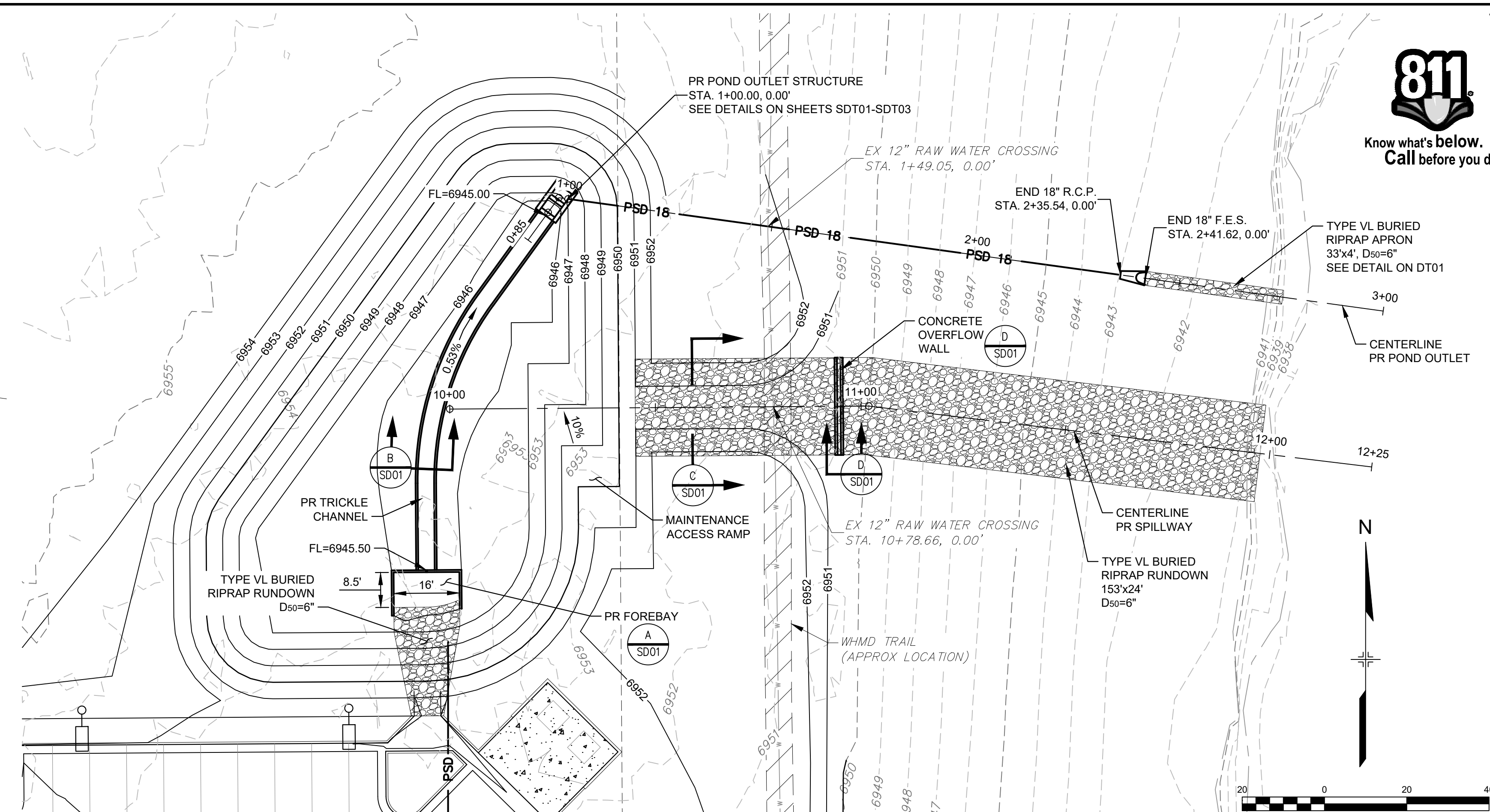
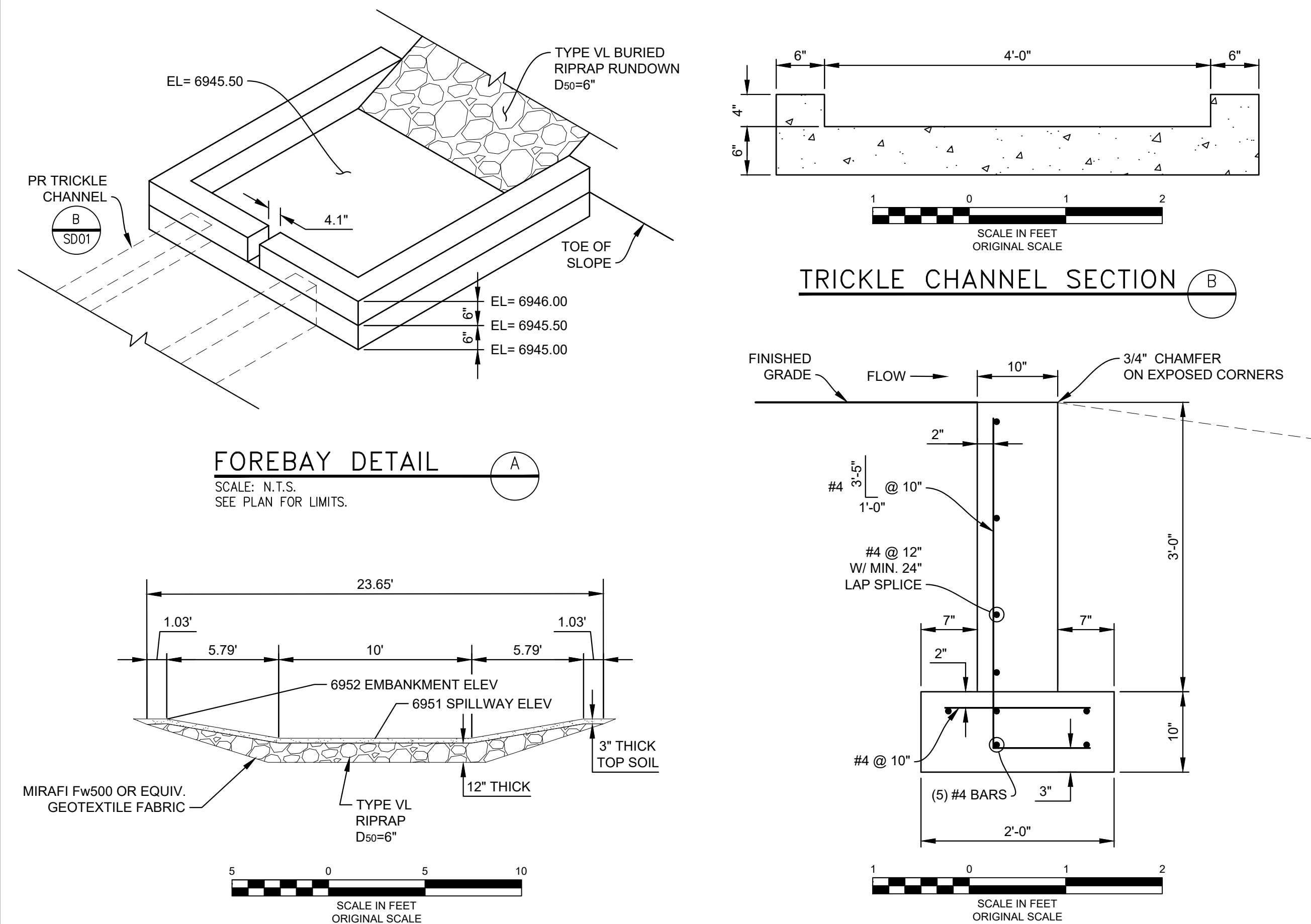
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REFERENCE DRAWINGS				SHEET KEY				PREPARED FOR:		SEAL		LIBERTY TREE ACADEMY	
X-995-MDG22x34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-UTIL								LIBERTY TREE ACADEMY				TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023	
No.		DATE		DESCRIPTION		BY		PREPARED BY:				SITE WATER MAIN PLAN	
				REVISIONS				Matrix DESIGN GROUP					
								AN EMPLOYEE-OWNED COMPANY					
				COMPUTER FILE MANAGEMENT								DESIGNED BY: ACR	
				FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\WT01.dwg								SCALE	
				CTB FILE: ---								HORIZ. 1" = 30'	
				PLOT DATE: 9/11/2018 8:41 AM								DATE ISSUED: SEPTEMBER 2018	
				THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.								DRAWING No. WT01	
												SHEET 9 OF 29	



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REFERENCE DRAWINGS

X-995-MD022x34
X-995-PR-UTL
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-BASE

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

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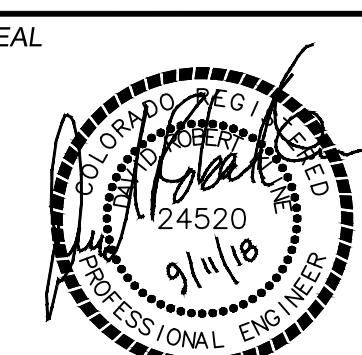
PREPARED FOR:

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, PCD FILE NO. PPR-18-023

POND OUTLET & SPILLWAY PLAN & PROFILE

DESIGNED BY: ACR SCALE: 1" = 5' DATE ISSUED: SEPTEMBER 2018 DRAWING No. SD01
DRAWN BY: ACR HORIZ. AS SHOWN SHEET 10 OF 29
CHECKED BY: DRK VERT. 1" = 5'

REFERENCE DRAWINGS						SHEET KEY N
X-995-MDG22x34						
No.	DATE	DESCRIPTION REVISIONS			BY	
COMPUTER FILE MANAGEMENT						
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\SWMPIECGN.dwg						
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LIBERTY TREE ACADEMY

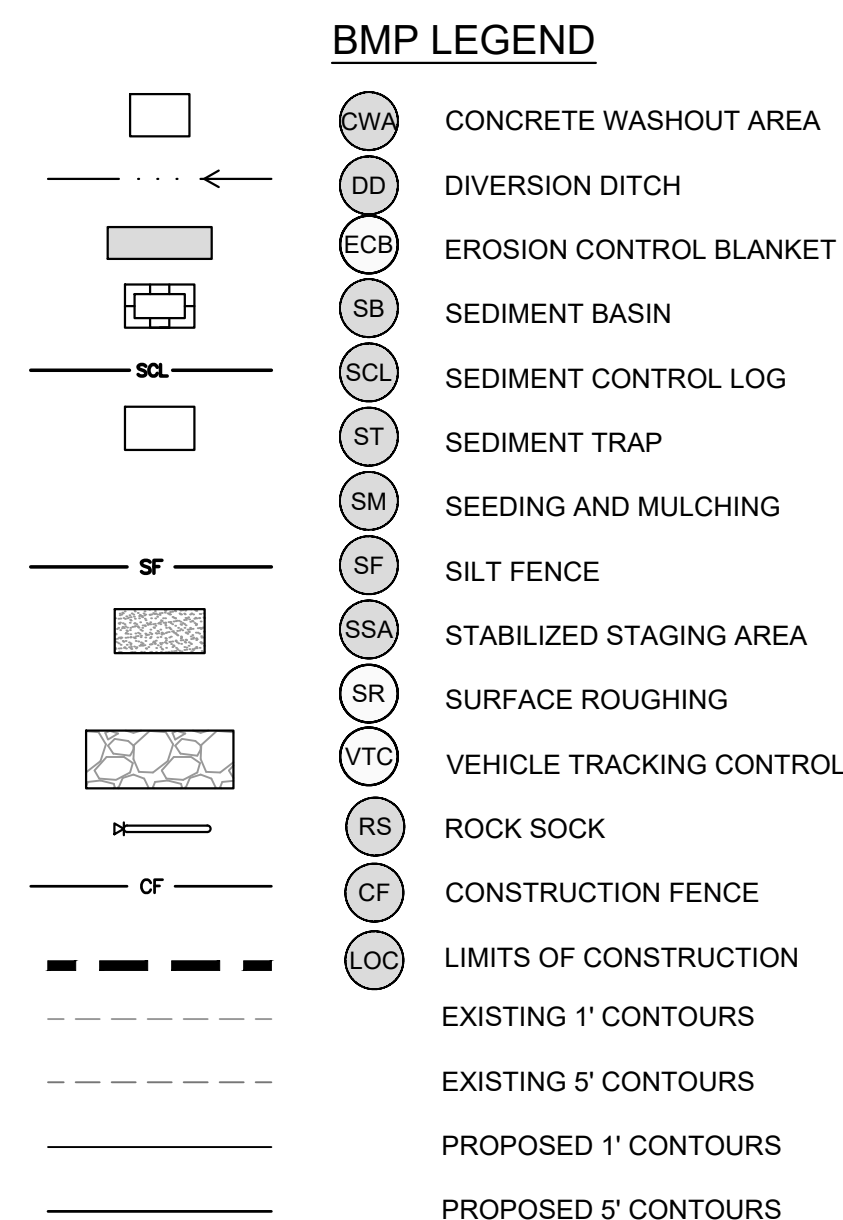
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCF FILE NO. PPR-18-023

EROSION CONTROL GENERAL NOTES

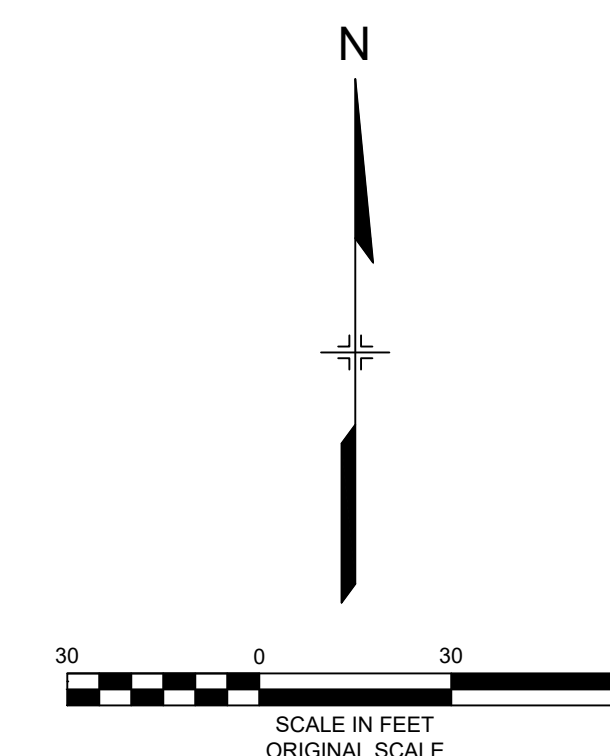
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

SCALE		DATE ISSUED:	DRAWING No.
ACR HORIZ	NA	SEPTEMBER 2018	ECCGN01
ACR VERT.	NA	11 OF 29	
DRK SHEET	NA		

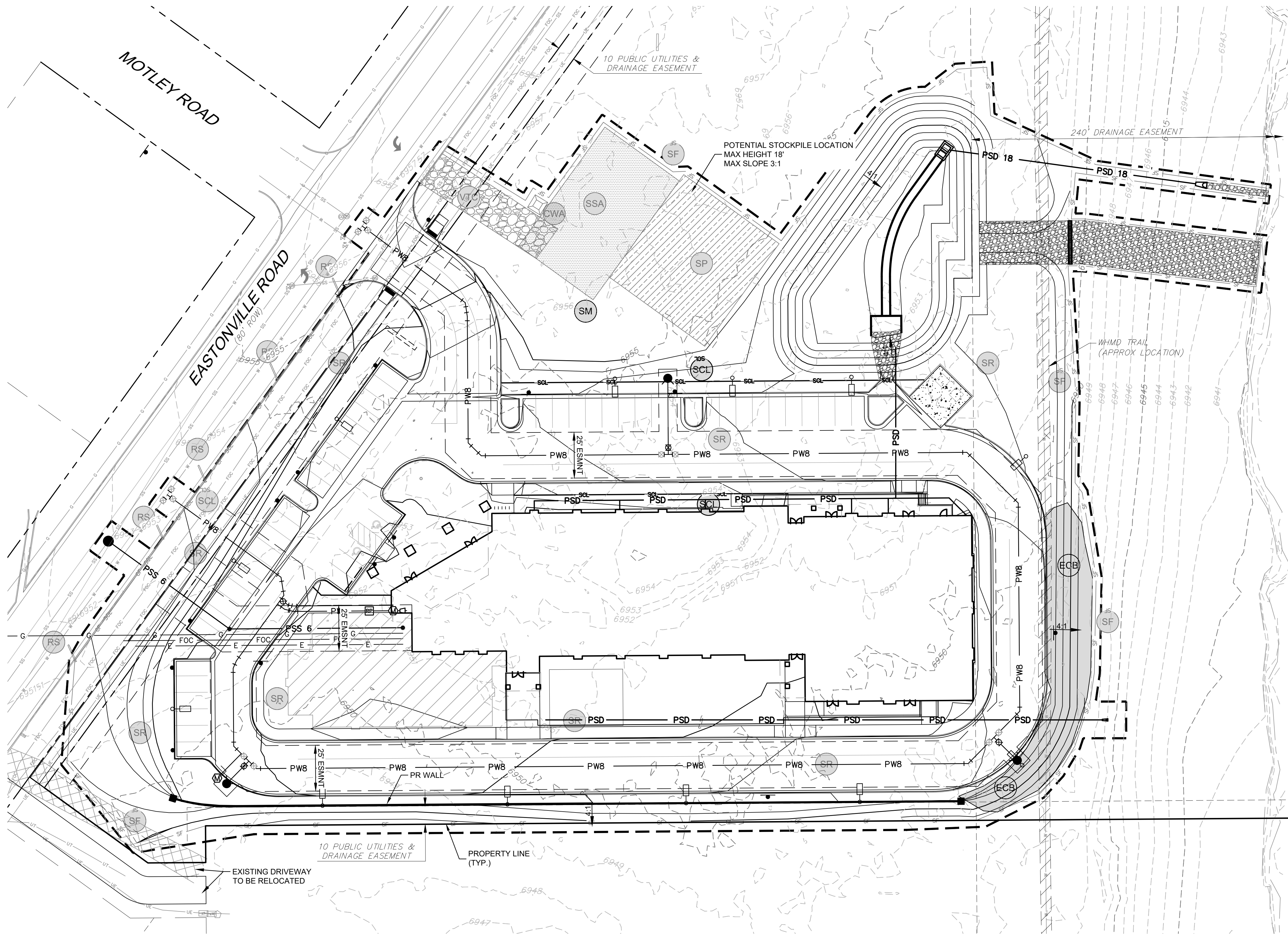
PREPARED BY:	SEAL
MATRIX DESIGN GROUP	
A/N EMPLOYEE-OWNED COMPANY	



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.

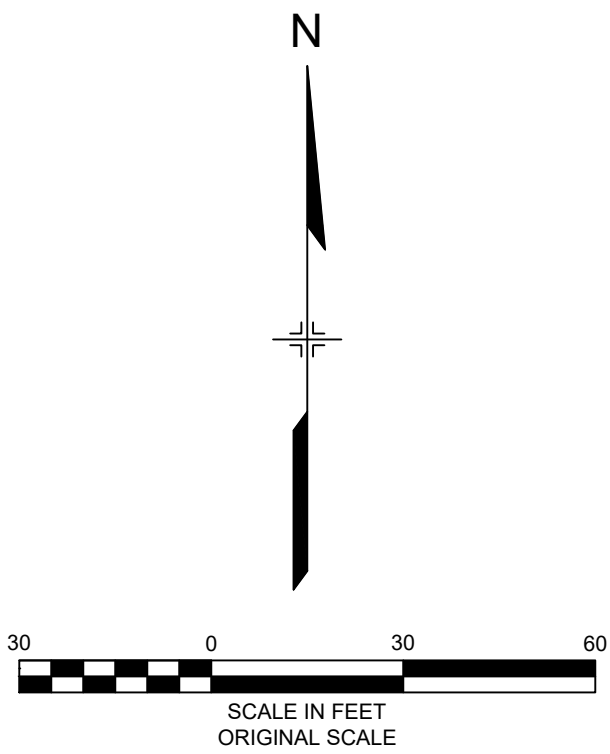


REFERENCE DRAWINGS					SHEET KEY	N ↑ ↓	PREPARED FOR: LIBERTY TREE ACADEMY ACADEMY PREPARED BY: Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY	SEAL 	LIBERTY TREE ACADEMY TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023
X-995-PR-SWMP X-995-EX-BASE X-995-EA-MAP X-995-MDG22x34 X-995-PR-GRAD	No.	DATE	DESCRIPTION REVISIONS	BY					INITIAL EROSION CONTROL PLAN
COMPUTER FILE MANAGEMENT									
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\SWMPIEC01.dwg									
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PLOT DATE: 9/11/2018 8:41 AM									
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								FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001	DESIGNED BY: ACR DRAWN BY: ACR CHECKED BY: DRK VERT. NA
								SCALE HORIZ. 1" = 30' VERT. NA	DATE ISSUED: SEPTEMBER 2018 SHEET 12 OF 29
								DRAWING No. EC01	



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:
- 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.
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Vehicle Tracking Control (VTC)

SM-4

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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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

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Vehicle Tracking Control (VTC)

SM-4

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

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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 UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

VTC-6

Urban Drainage and Flood Control District
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November 2010



Earth Dikes and Drainage Swales (ED/DS)

EC-10

ED-1. COMPACTED UNLINED EARTH DIKE FORMED BY BERM

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ED/DS-3

EC-10

Earth Dikes and Drainage Swales (ED/DS)

DS-4. SYNTHETIC LINED SWALE

DS-5. RIPRAP LINED SWALE

THICKNESS=2 x D50

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

- SEE SITE PLAN FOR:
 - LOCATION OF DIVERSION SWALE.
 - TYPE OF SWALE (UNLINED, COMPACTED AND/OR UNLINED).
 - 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
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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, SEED, AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

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

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

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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.

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

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:

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-MD022x34

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\SWMPIECDT.dwg

CTB FILE: ---

PLOT DATE: 9/11/2018 8:42 AM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

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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, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

DESIGNED BY: ACR

DRAWN BY: ACR

CHECKED BY: DRK

SCALE: HORIZ. NA

DATE ISSUED: SEPTEMBER 2018

14 OF 29

DRAWING No. ECDT01

August 2013
Urban Drainage and Flood Control District
SB-5

Urban Storm Drainage Criteria Manual Volume 3

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

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

ST-2
Urban Drainage and Flood Control District
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SB-6
Urban Drainage and Flood Control District
August 2013

Urban Storm Drainage Criteria Manual Volume 3

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

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

N
I

SEA



DESIGNED BY:	ACR	SCALE	DATE ISSUED:	SEPTEMBER 2018
DRAWN BY:	ACR	HORIZ. NA		
CHECKED BY:	DRK	VERT. NA	SHEET	15 OF 29

Sediment Control Log (SCL)SC-2

SEDIMENT CONTROL LOG

SECTION A

SEDIMENT CONTROL LOG JOINTS

SCL-1. SEDIMENT CONTROL LOG

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

SC-2Sediment Control Log (SCL)

SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB

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

SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

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

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, EXCELISOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR OBJECTS INCLUDING RIPS.
- 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.
- 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 6" INTO THE GROUND. 3' OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

- 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 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.

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Concrete Washout Area (CWA)MM-1

CONCRETE WASHOUT AREA PLAN

SECTION A

CWA-1. CONCRETE WASHOUT AREA

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MM-1Concrete 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.

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Silt Fence (SF)SC-1

SILT FENCE

SECTION A

SF-1. SILT FENCE

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SC-1Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PENETRATING 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 ROCK GRAPERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- 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 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- 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.

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REFERENCE DRAWINGS

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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, PCD FILE NO. PPR-18-023

EROSION CONTROL DETAILS

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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 BINDERS/ SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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SP-3

MM-2

Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

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

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

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

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MM-2

Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
- CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

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

(DETAILS ADAPTED FROM AURORA, COLORADO)

SP-6

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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)

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SR-3

EC-1

Surface Roughening (SR)

SURFACE ROUGHENING INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SURFACE ROUGHENING.
- SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.
- AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
- DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
- A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
- VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
- IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
- IN AREAS NOT SEEDDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.

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

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

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Stabilized Staging Area (SSA)

SM-6

SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

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

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.

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SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

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

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

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

SSA-4

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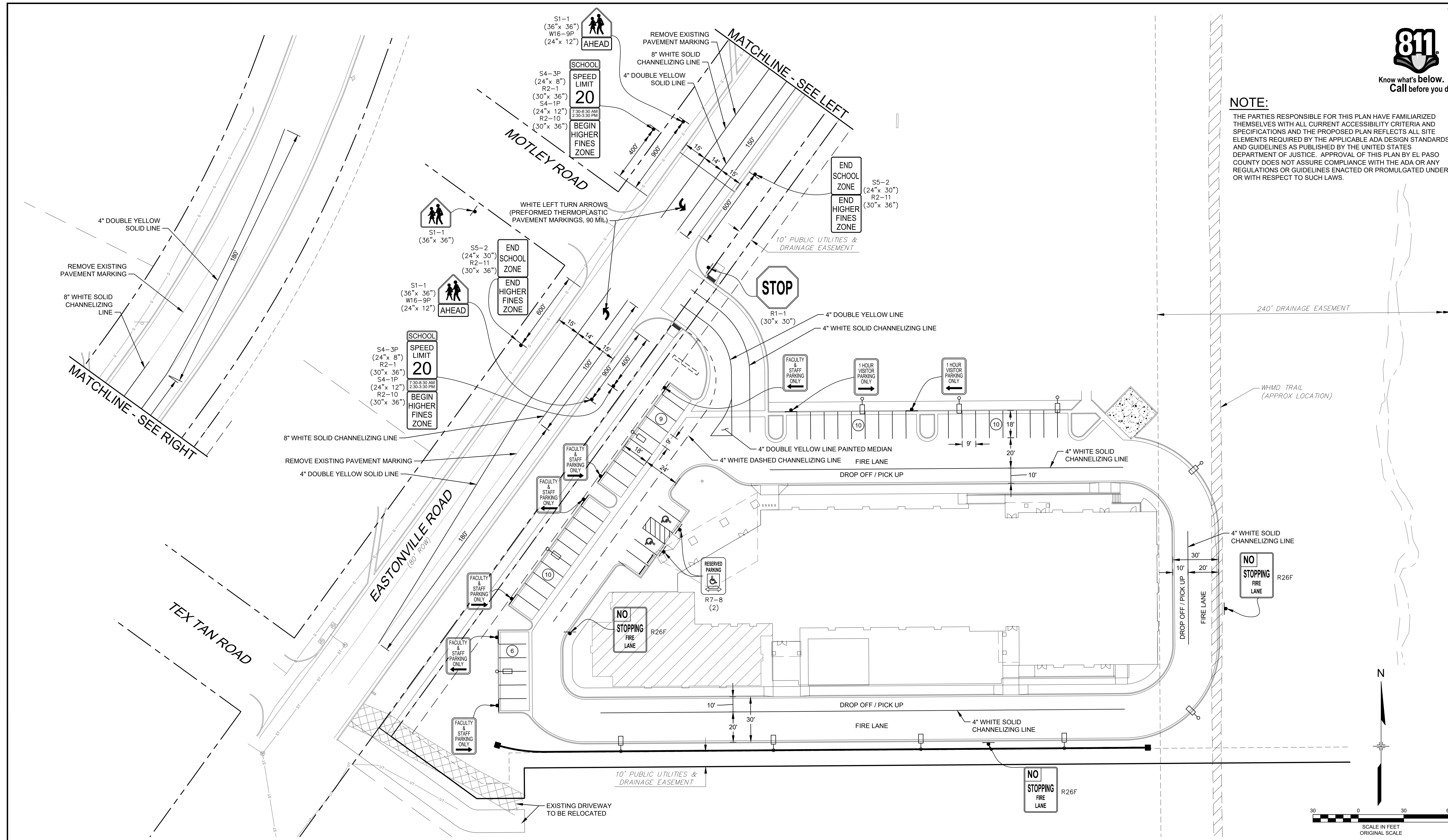
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	EROSION CONTROL DETAILS												
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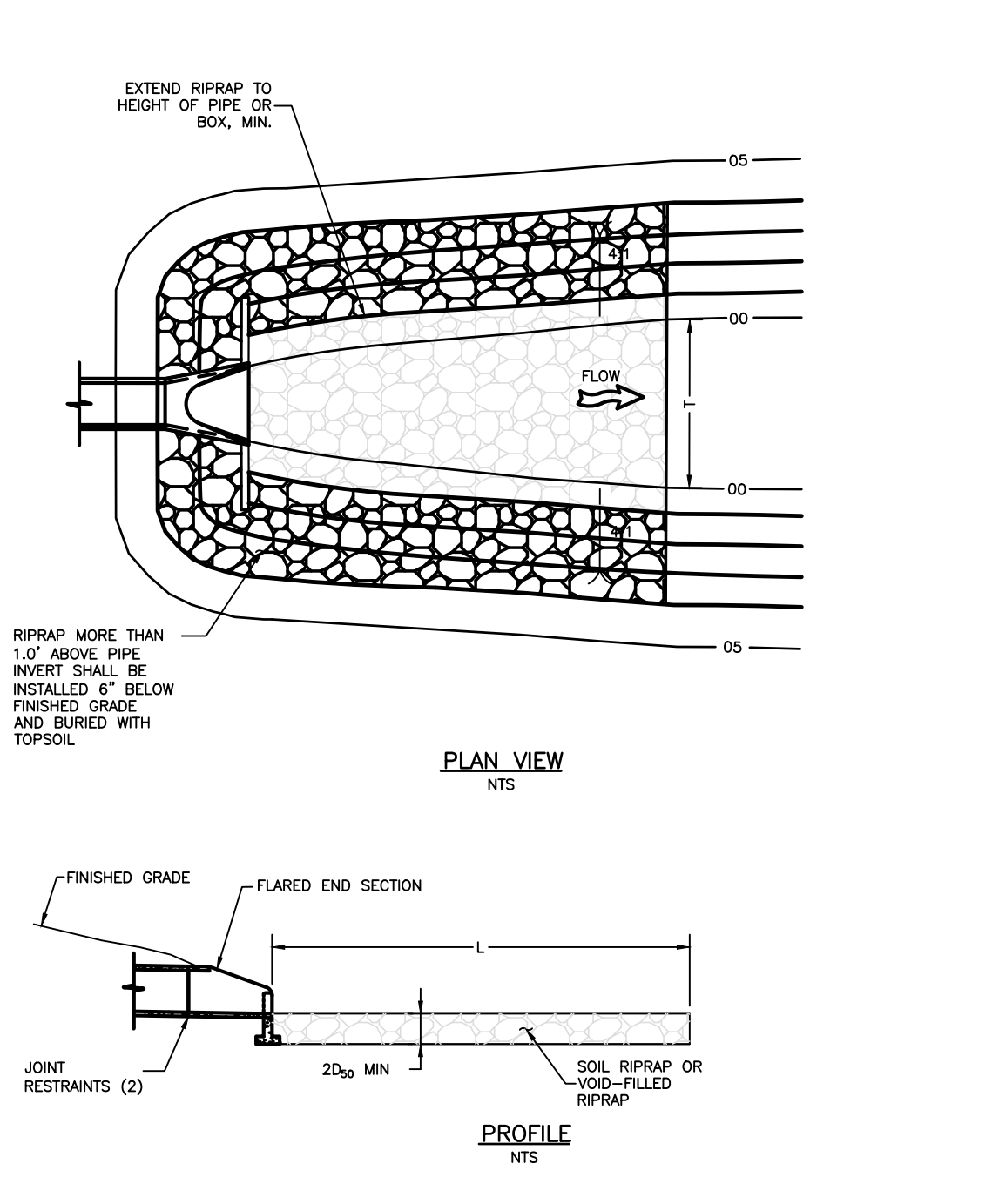
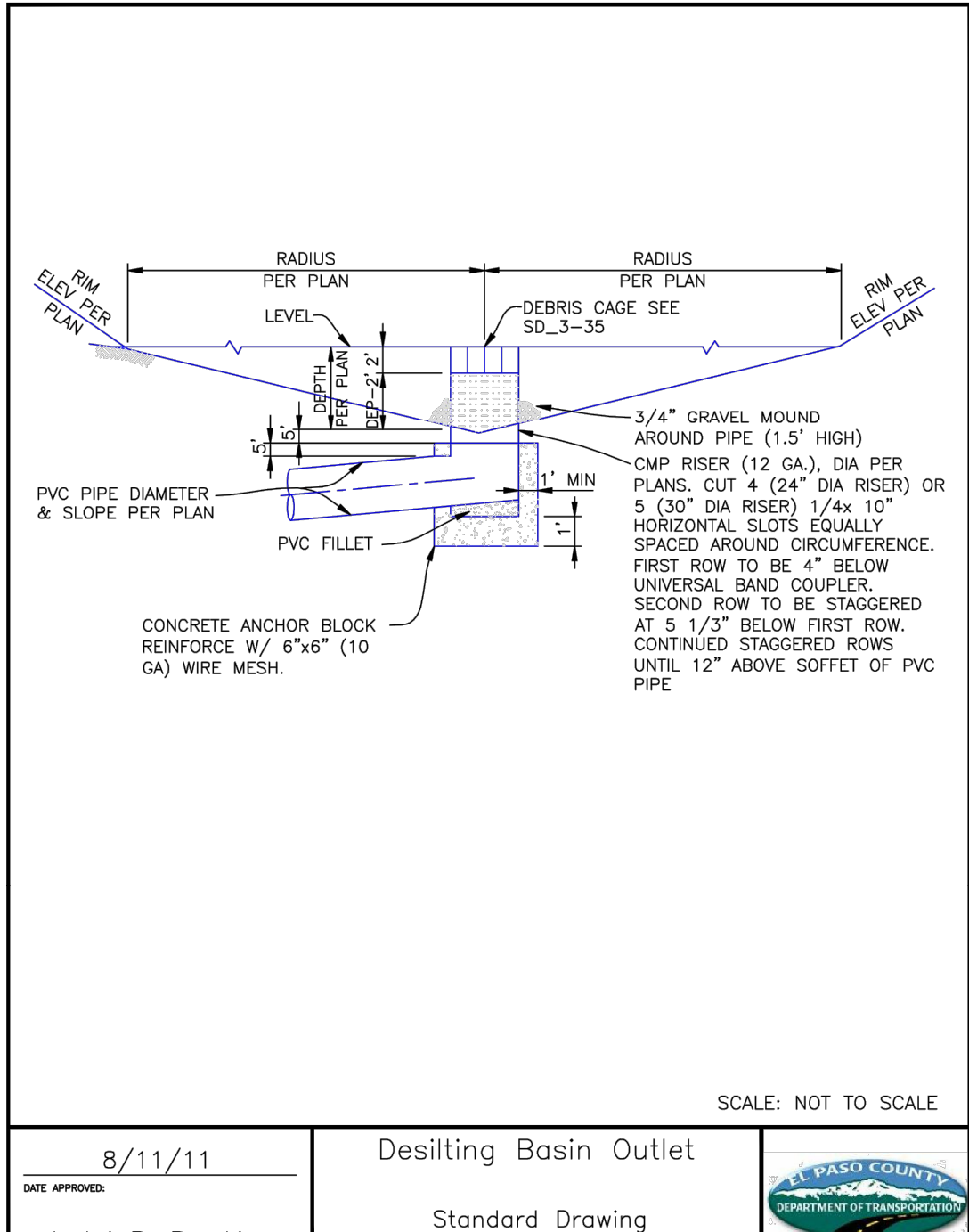
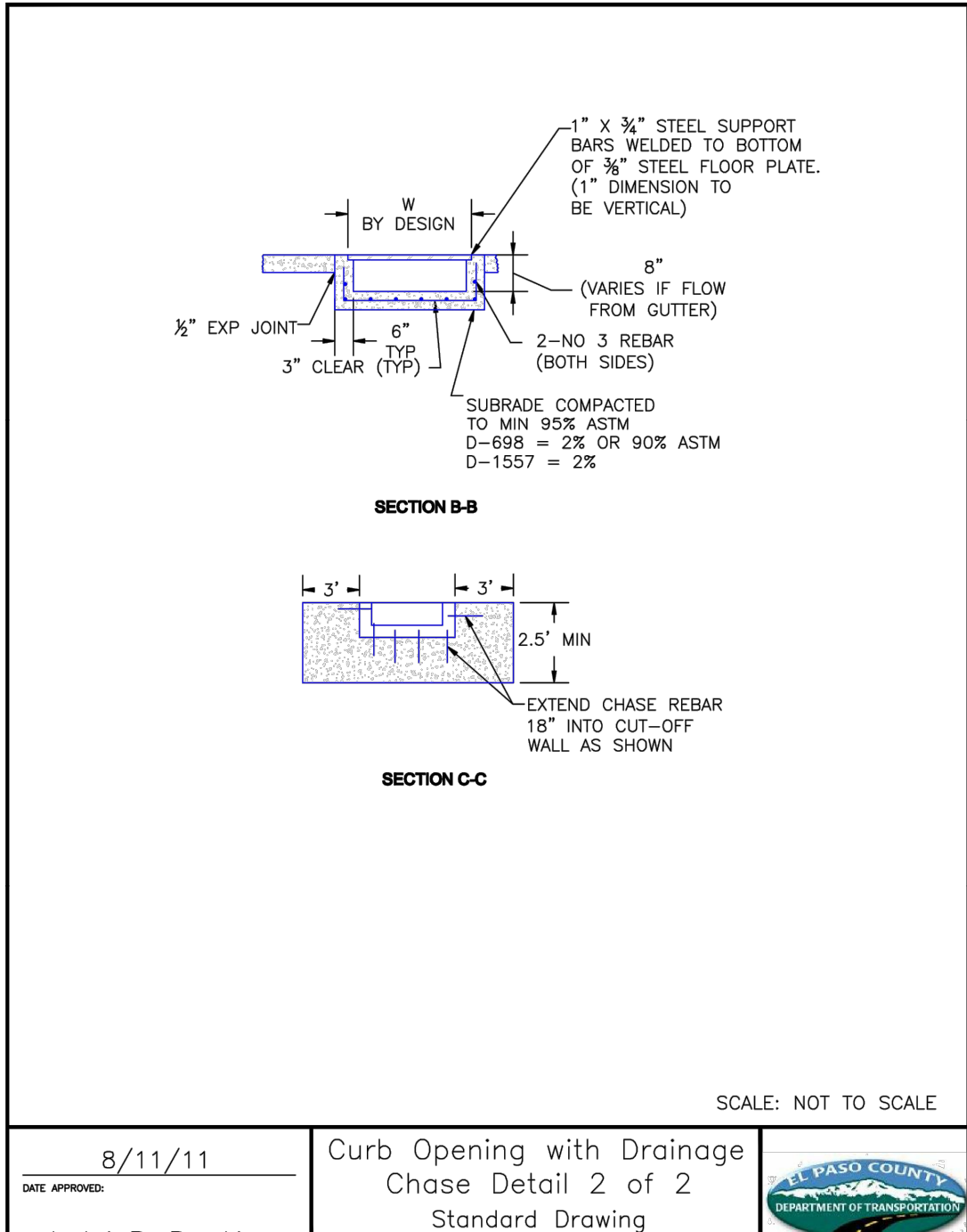
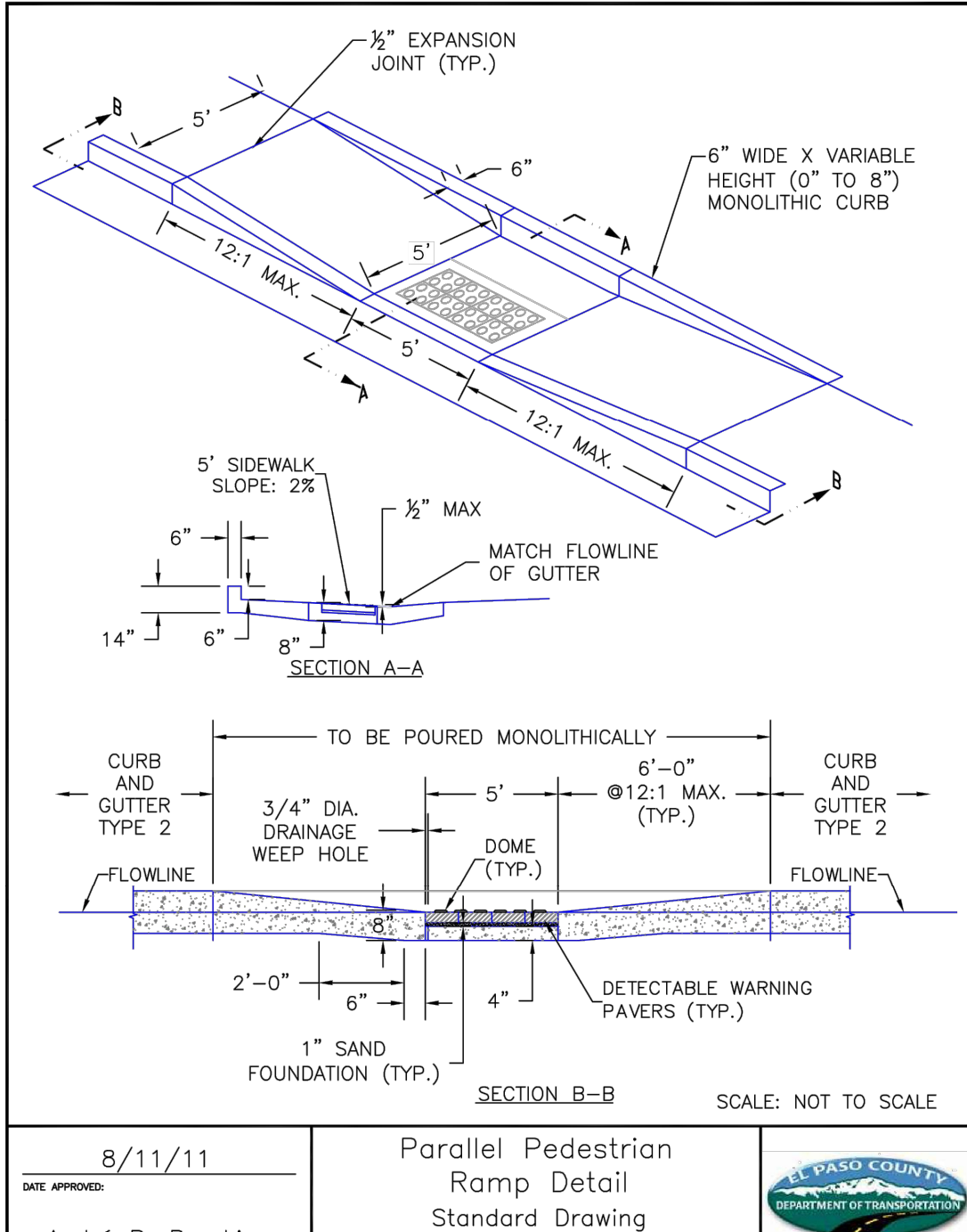
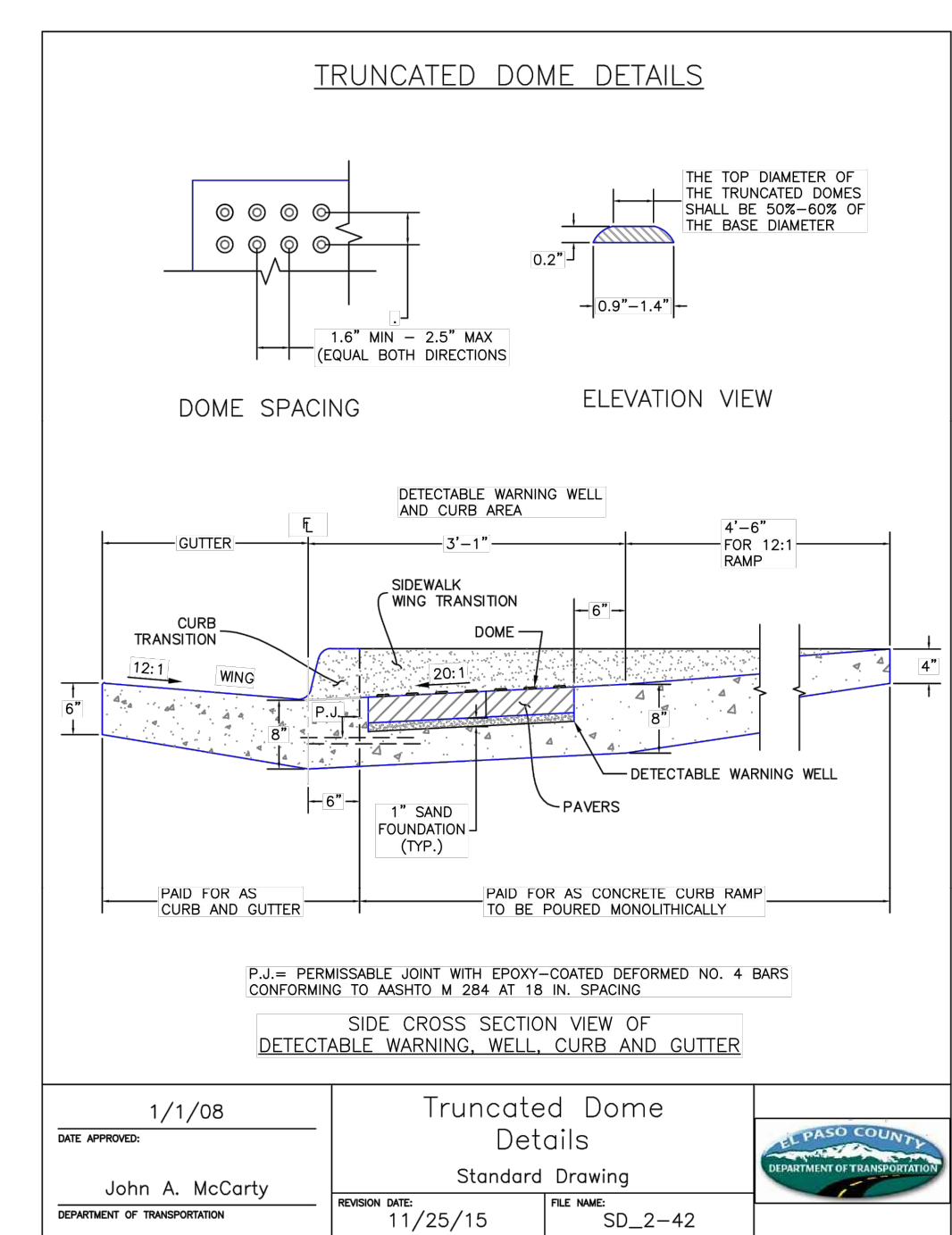
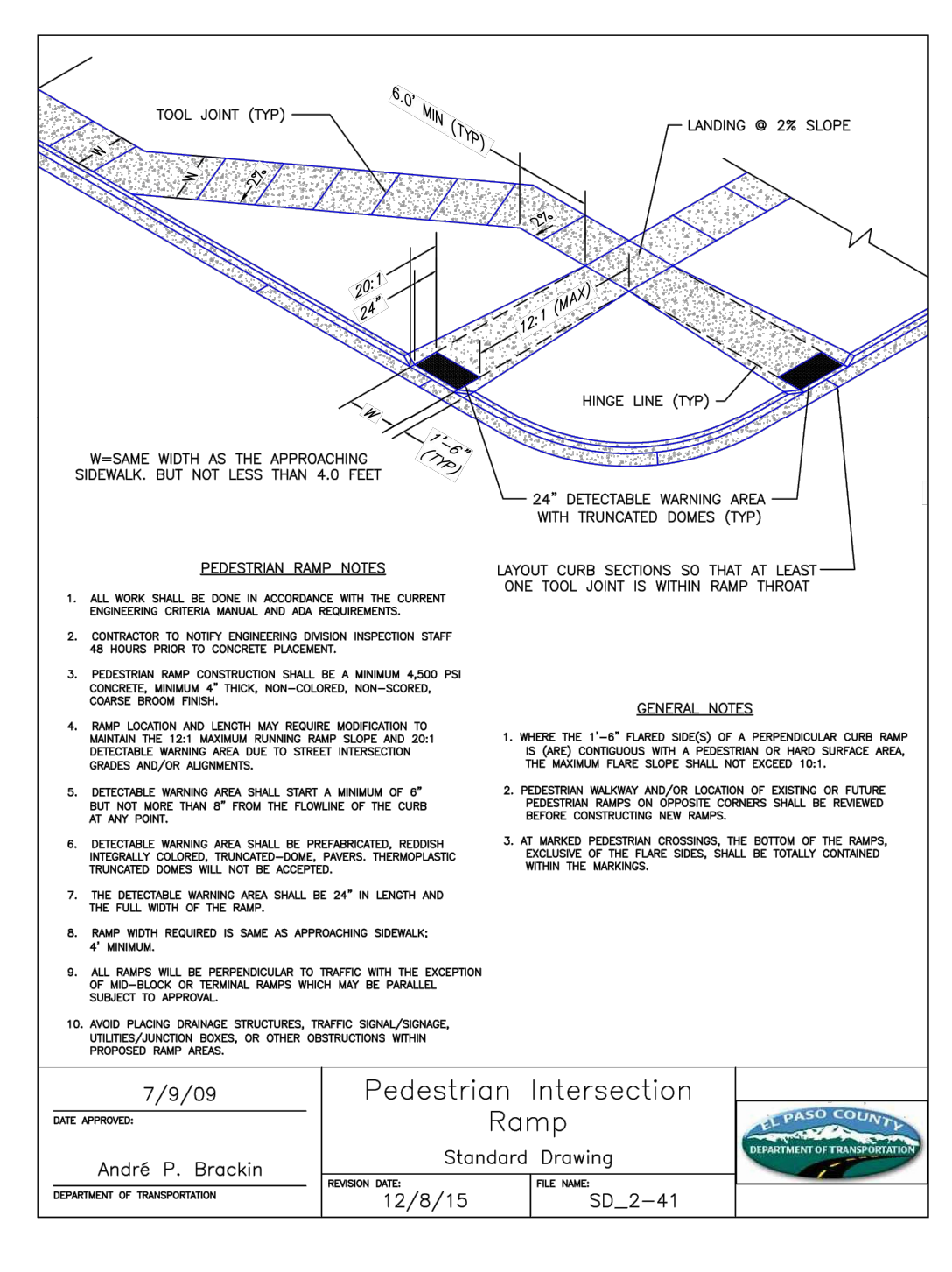
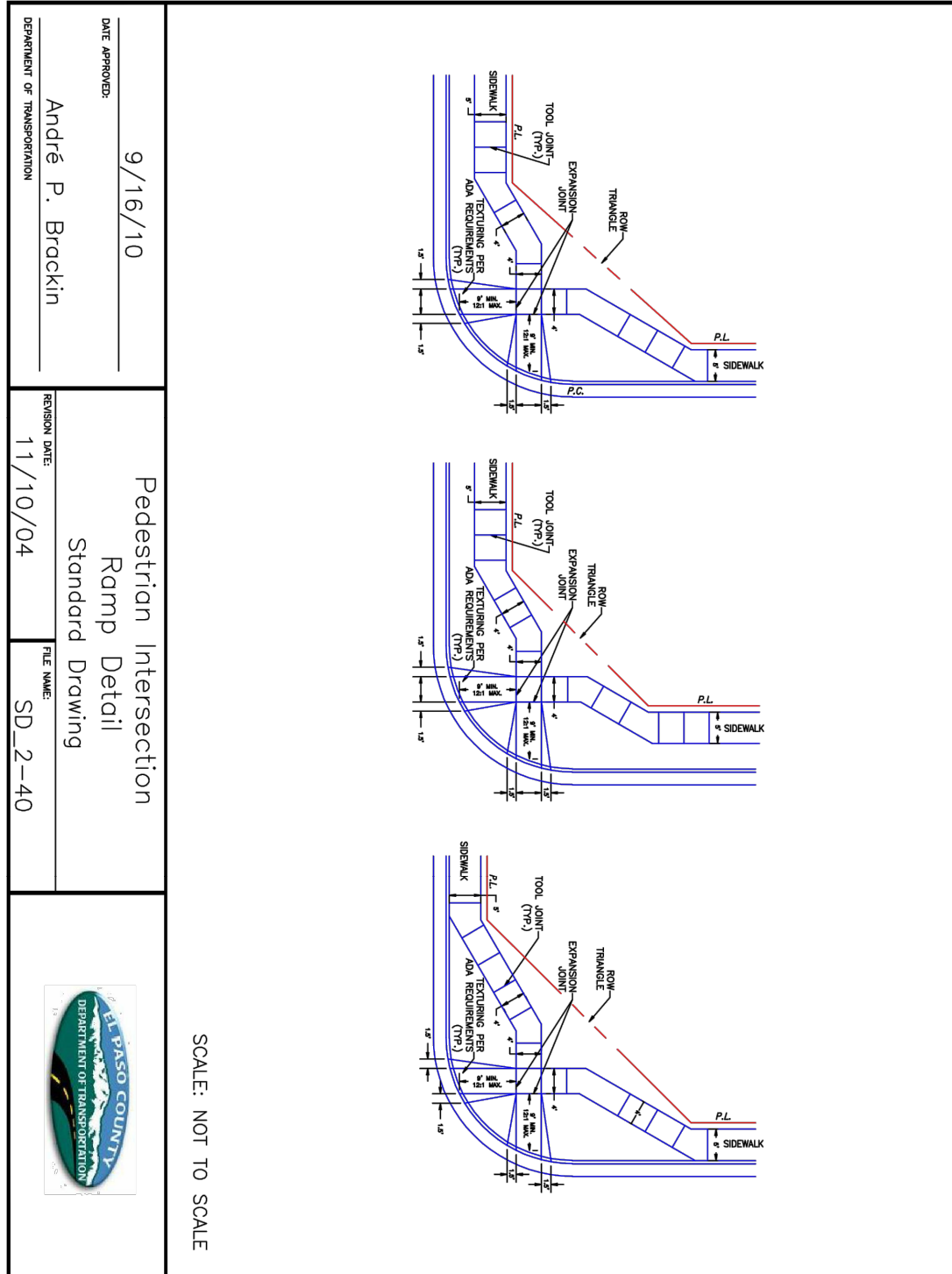
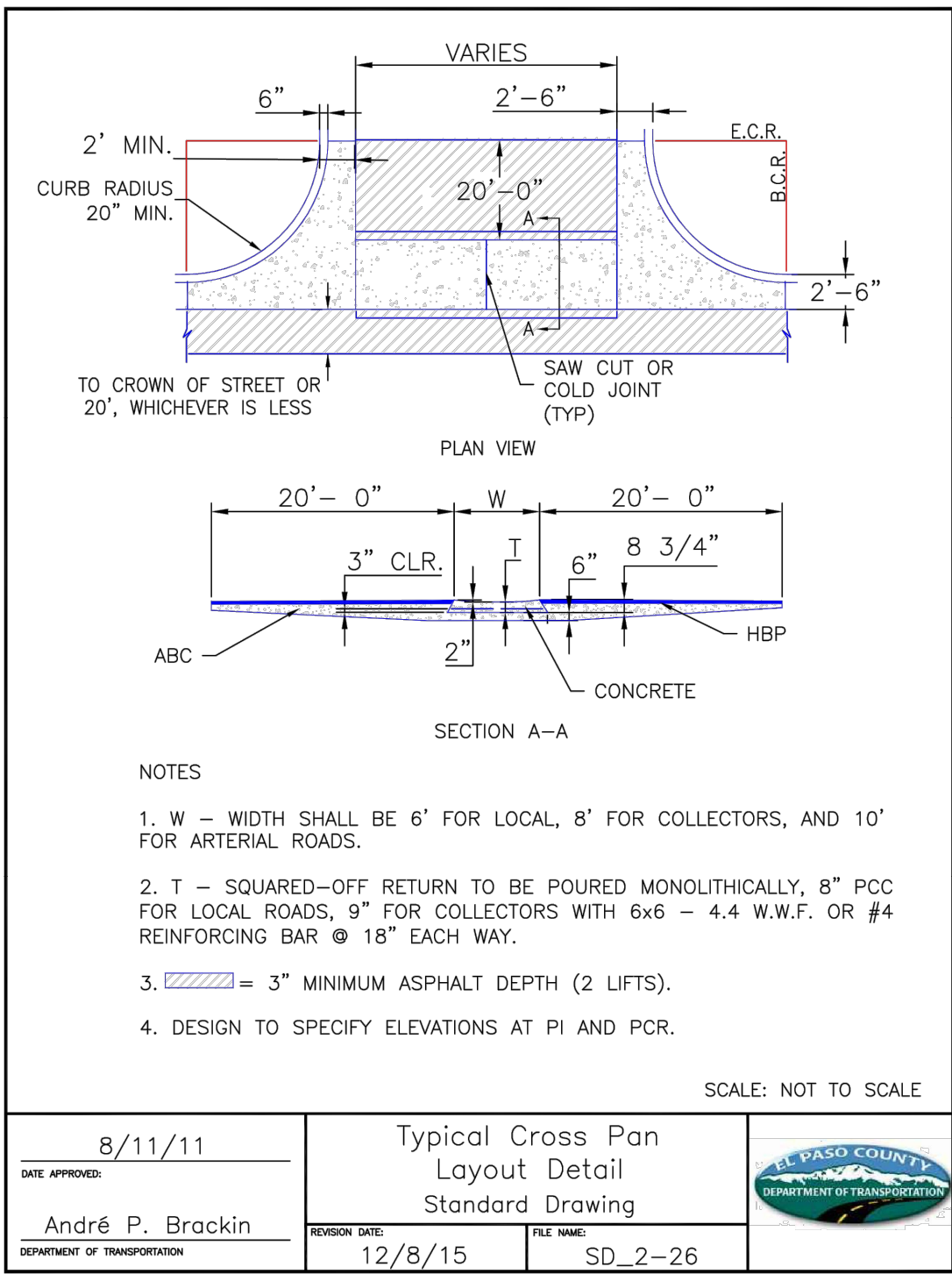
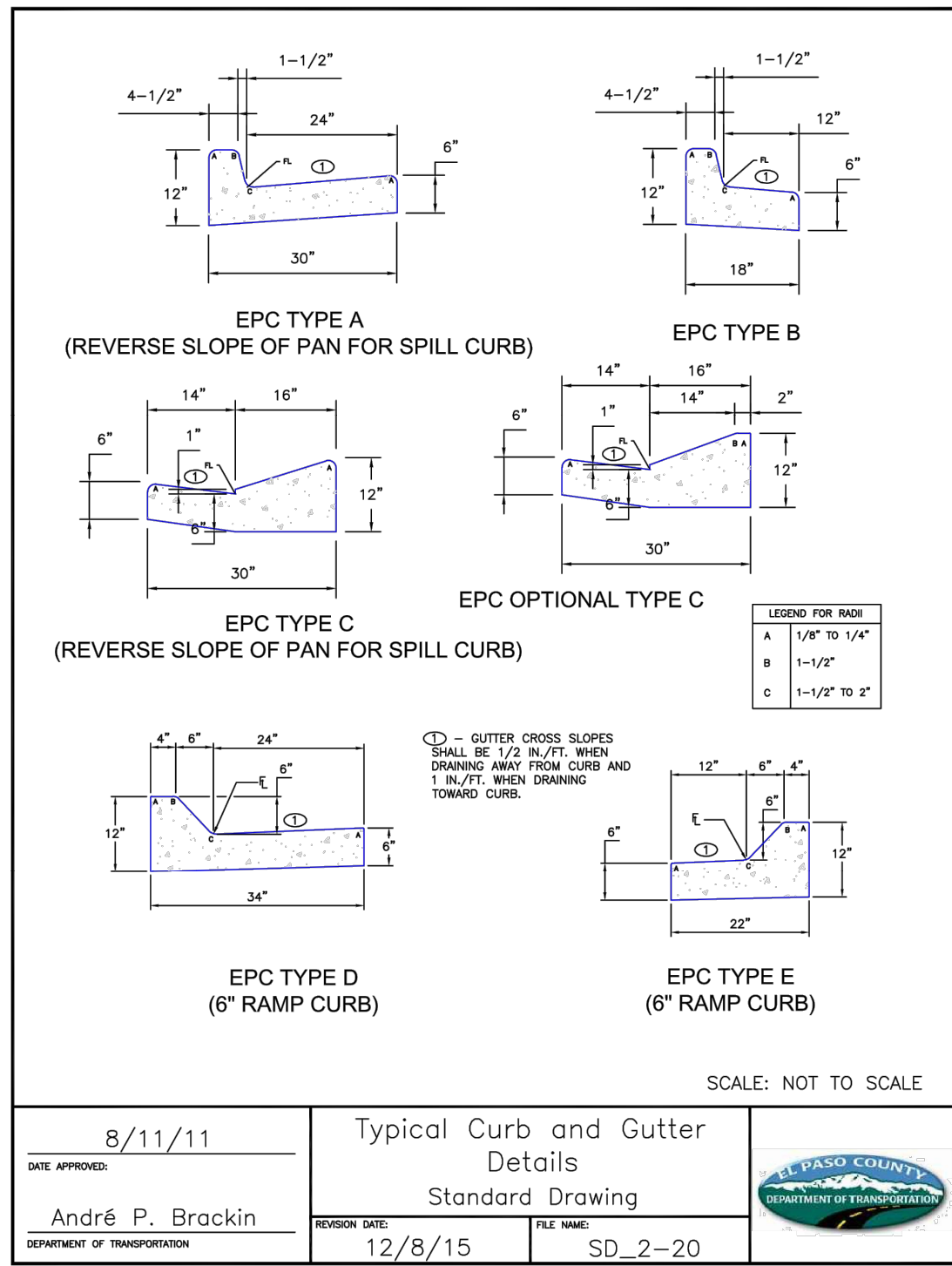


NOTE:

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



REFERENCE DRAWINGS X-995-MDQ22x34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-UTIL				SHEET KEY	LIBERTY TREE ACADEMY ACADEMY	Matrix DESIGN GROUP AN EMPLOYEE-OWNED COMPANY	SEAL 	LIBERTY TREE ACADEMY			
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FILE NAME: R\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\ST01.dwg											
CTB FILE: ---											
PLOT DATE: 9/11/2018 8:42 AM											
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.											
					DESIGNED BY: ACR DRAWN BY: ACR CHECKED BY: DRK						
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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, PCD FILE NO. PPR-18-023

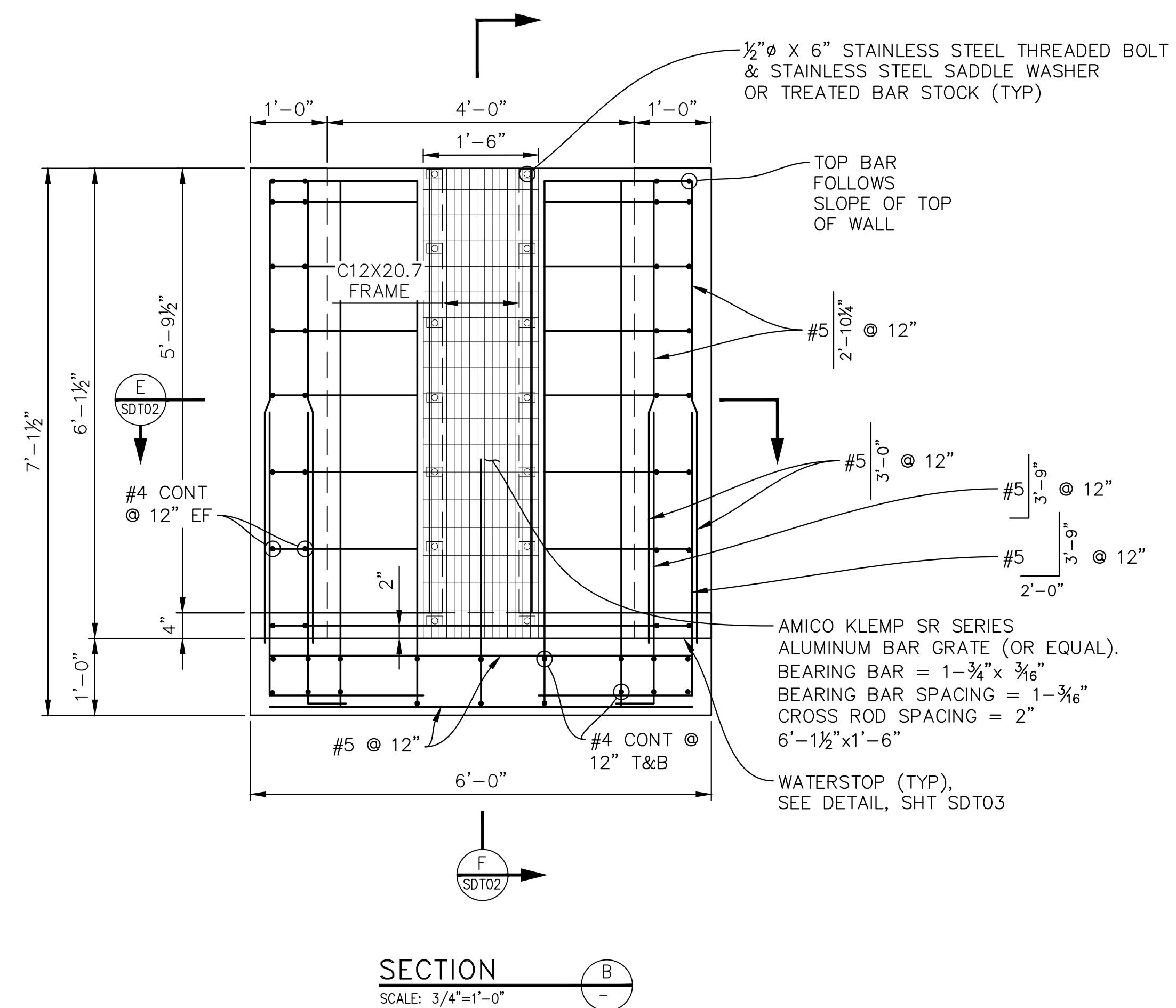
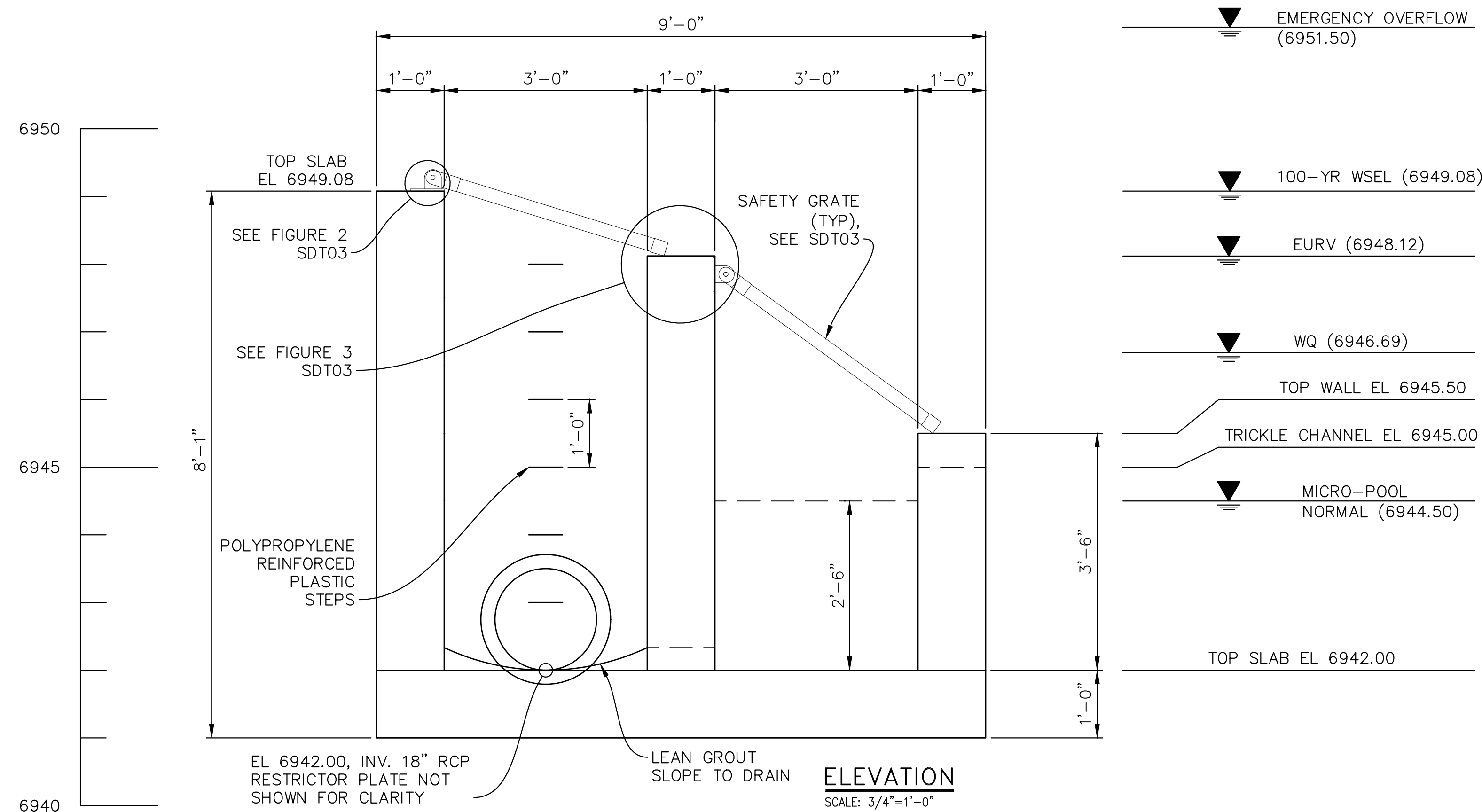
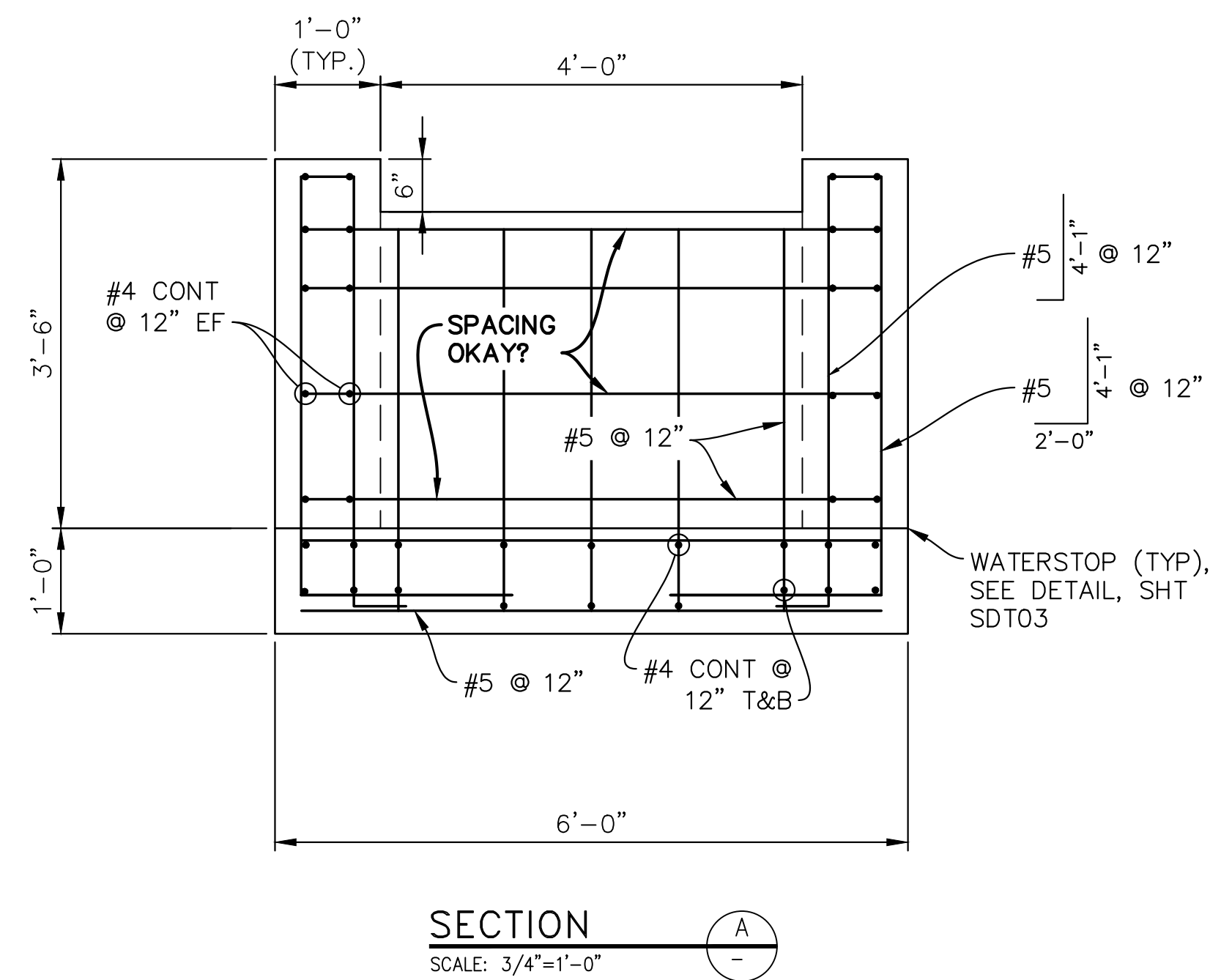
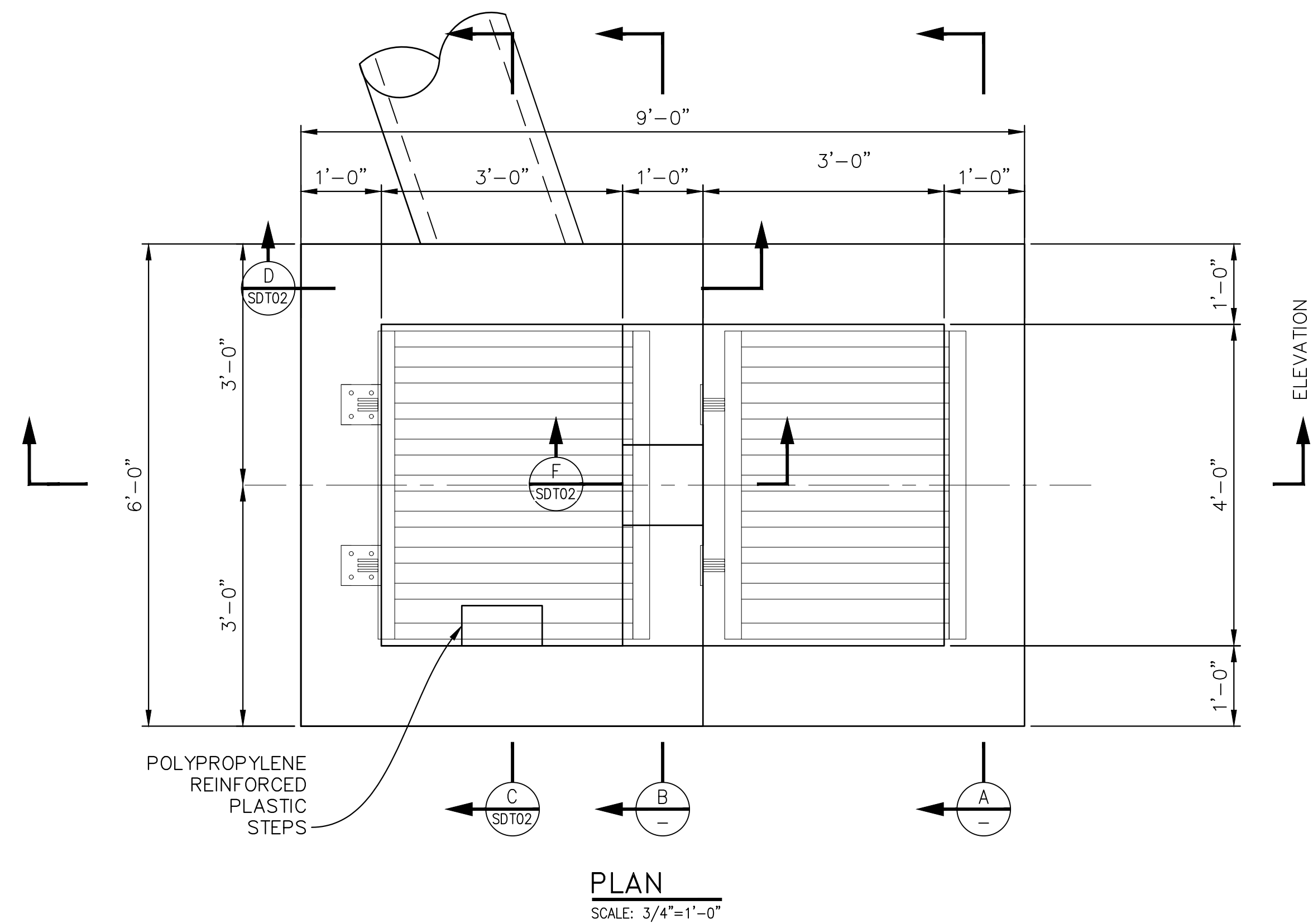
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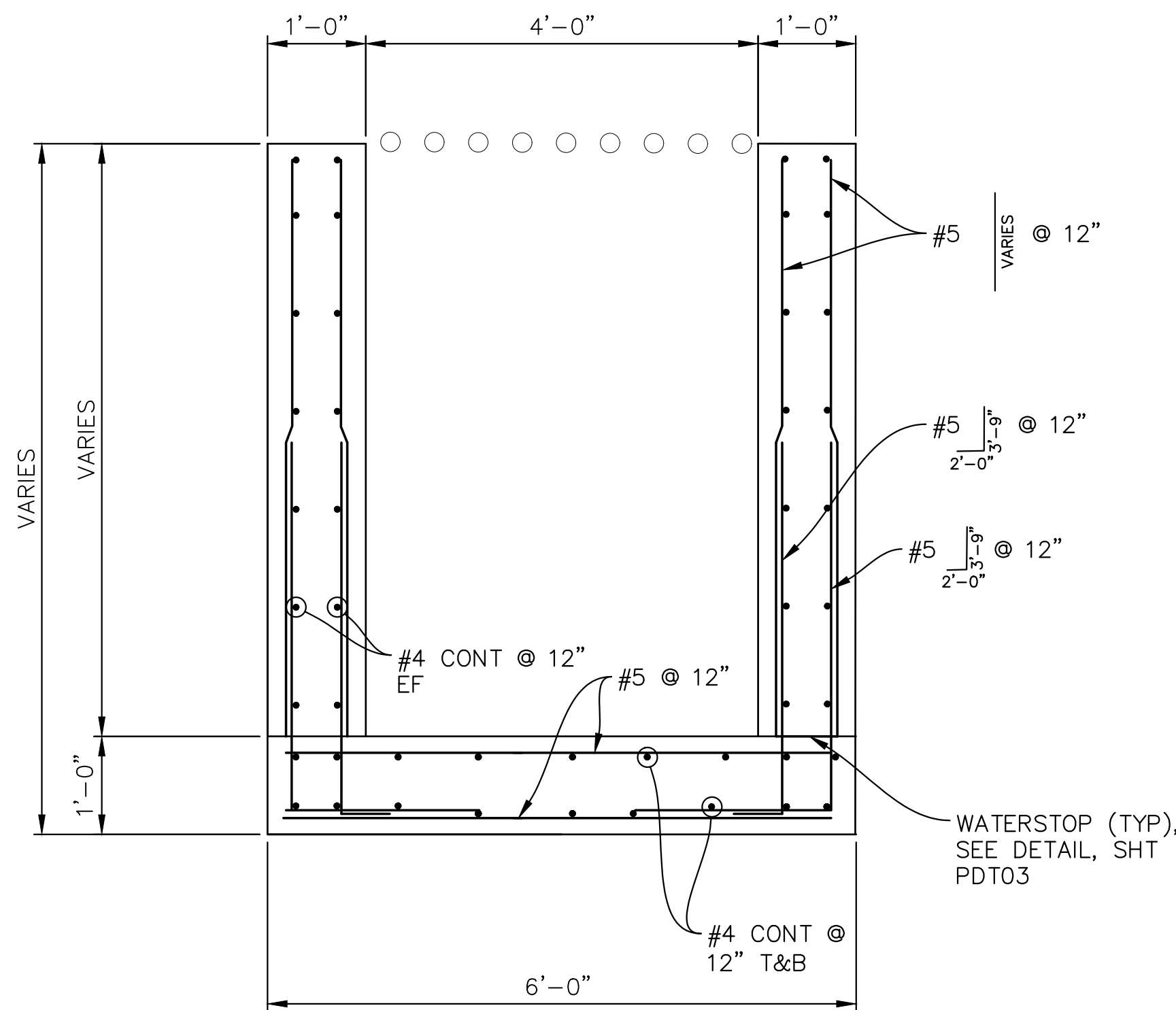
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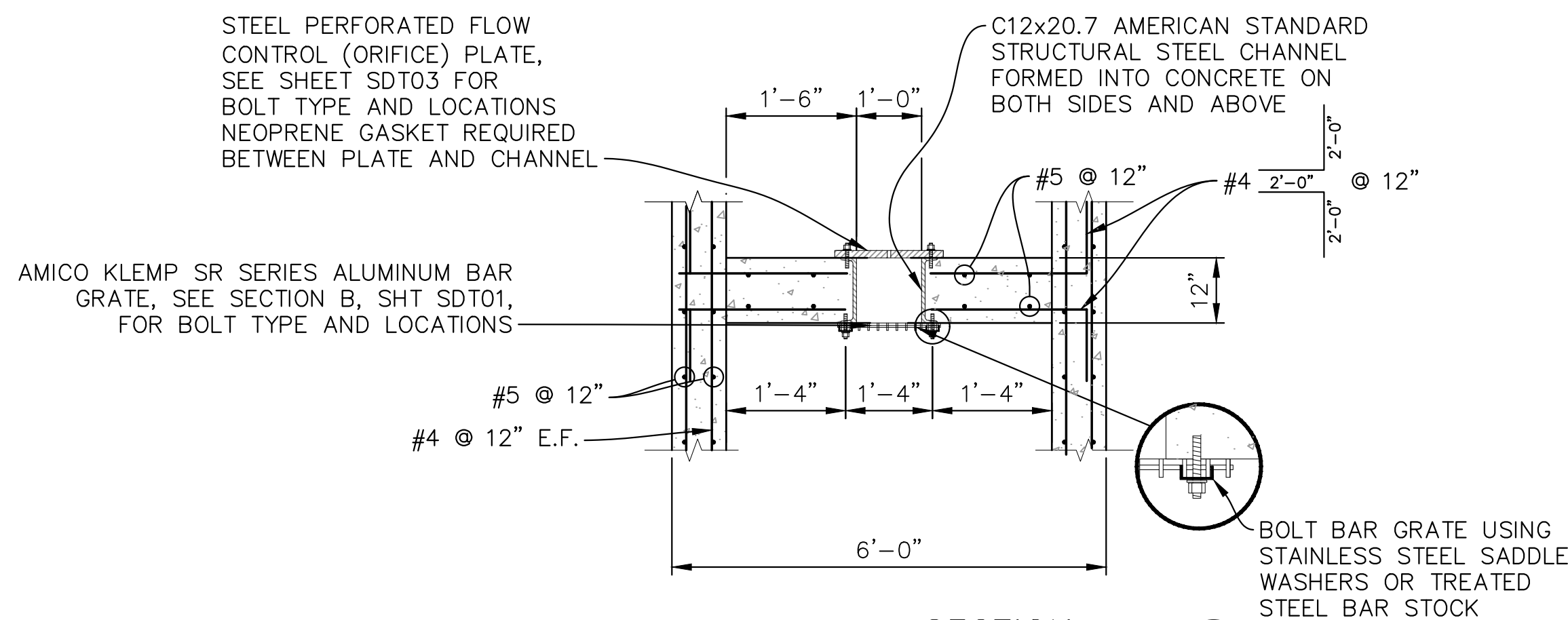
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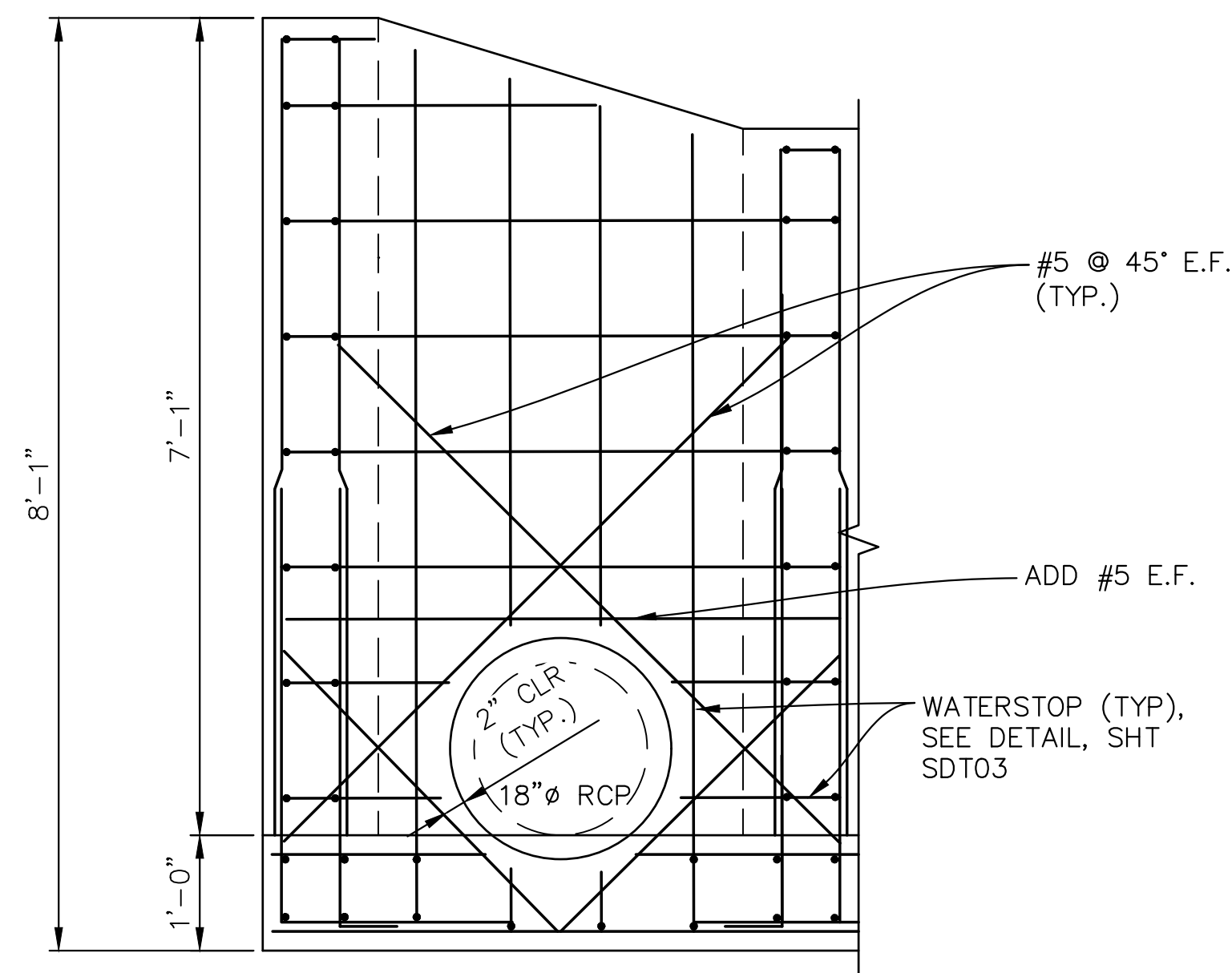
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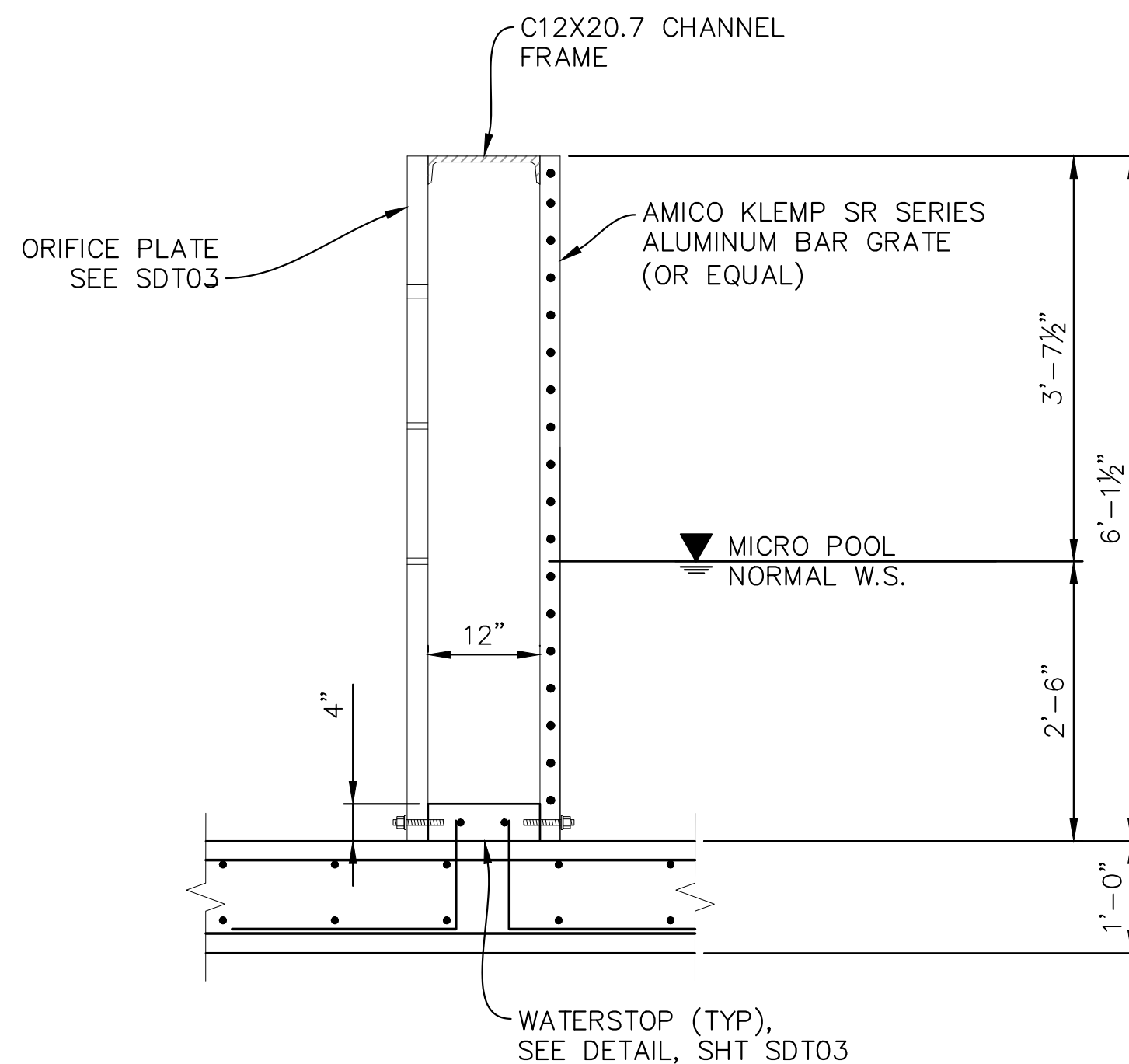
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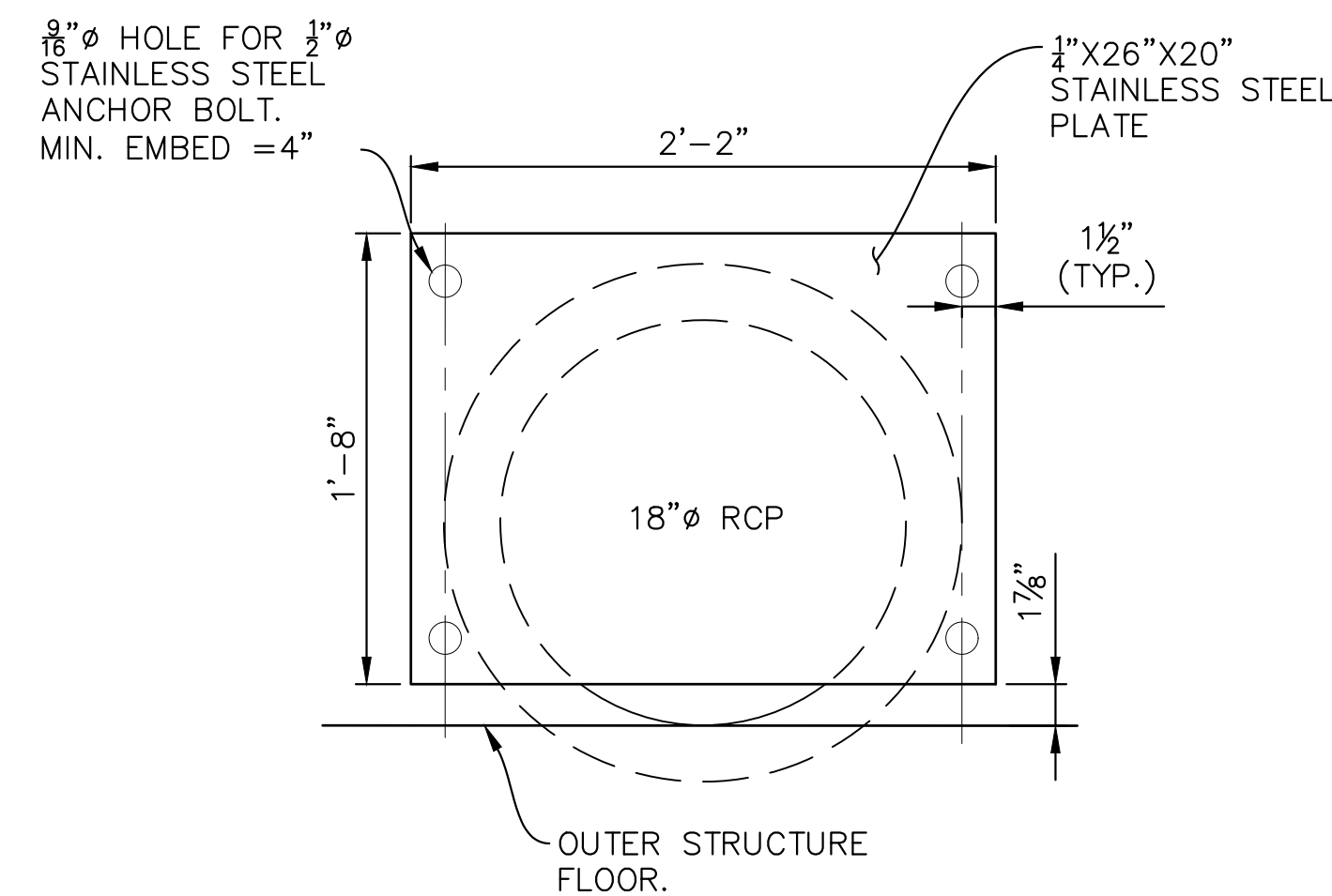
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SCALE: 3/4"=1'-0"



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



RESTRICTOR PLATE DETAIL
SCALE: 1-1/2"=1'-0"

REFERENCE DRAWINGS					
	No.	DATE	DESCRIPTION	BY	
COMPUTER FILE MANAGEMENT					
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Structures\SDT01-03.dwg					
CTB FILE: ---					
PLOT DATE: 9/11/2018 9:03 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



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 COMPANY

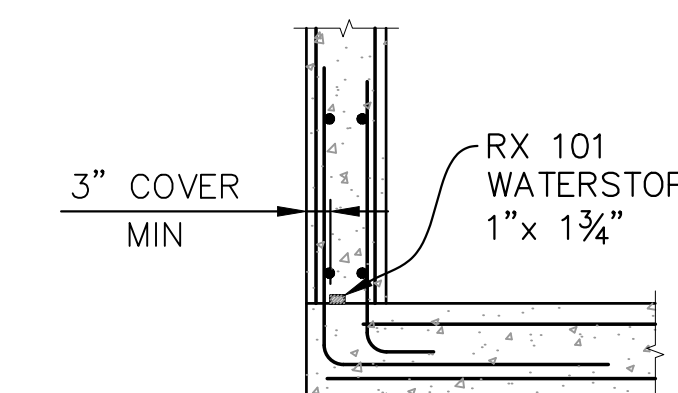
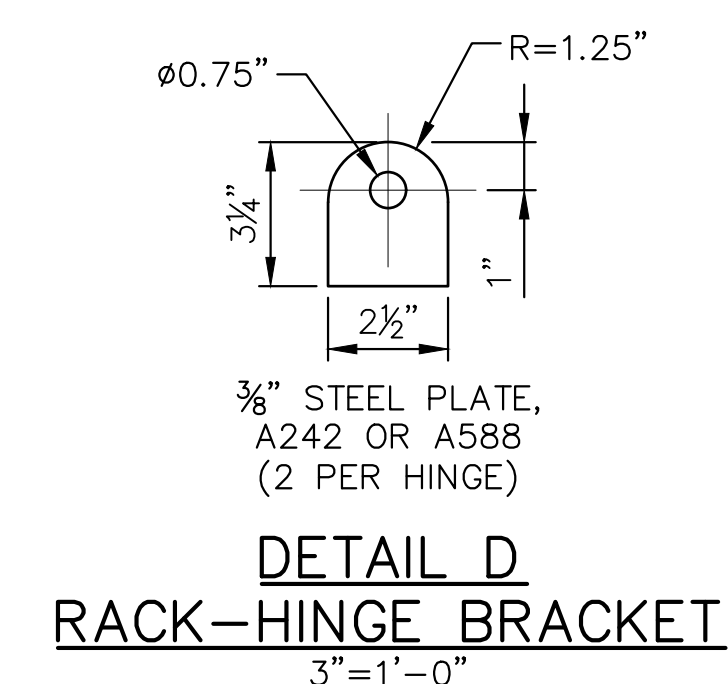
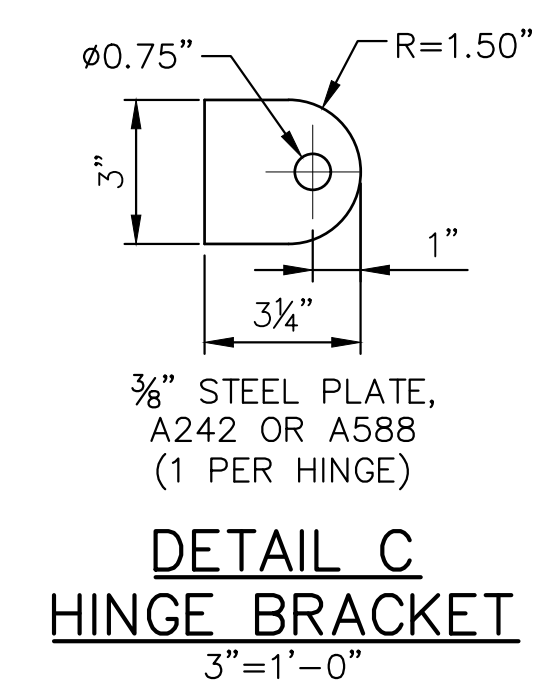
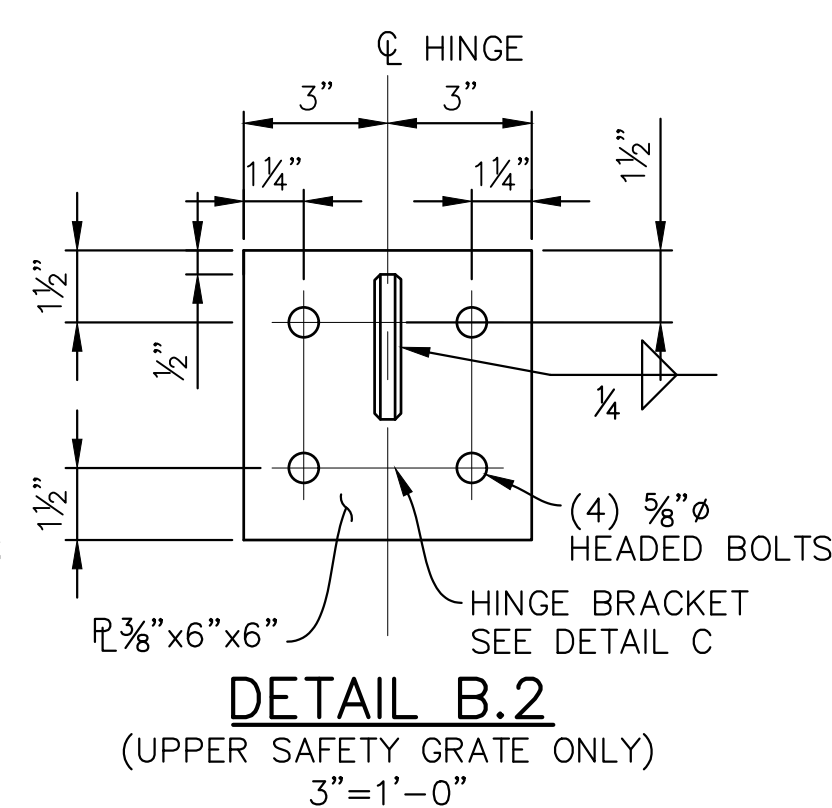
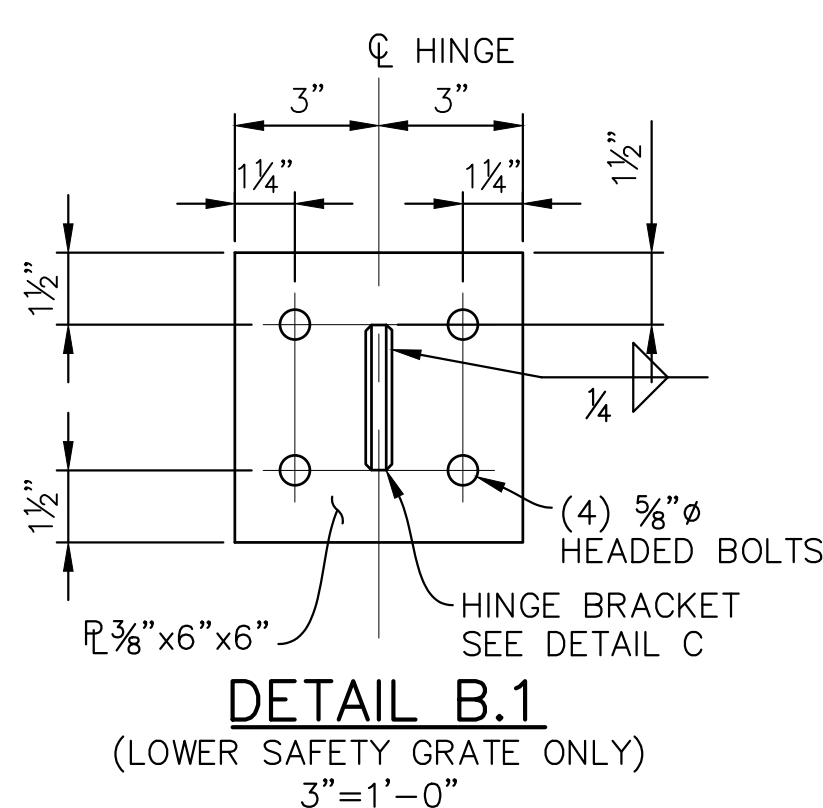
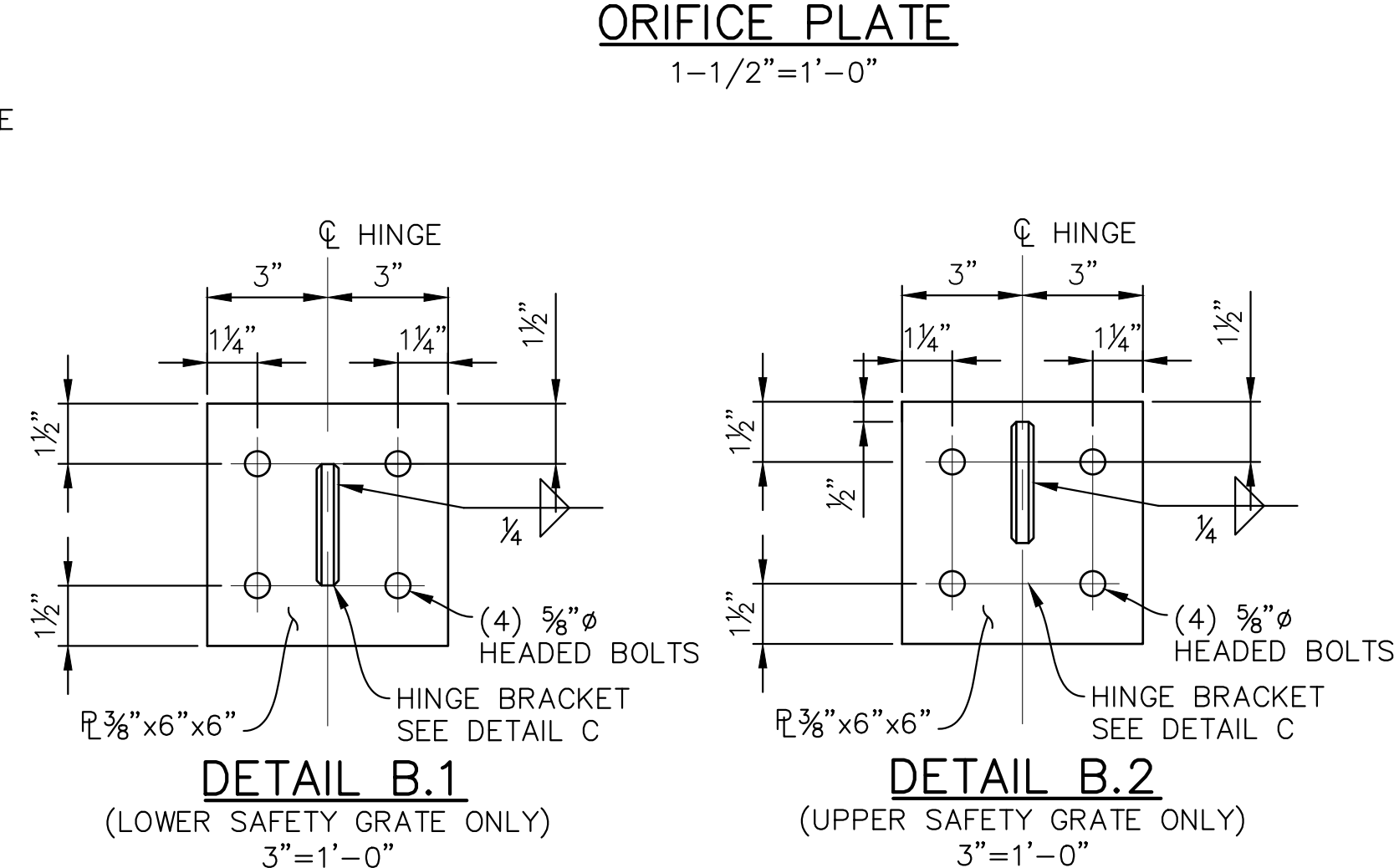
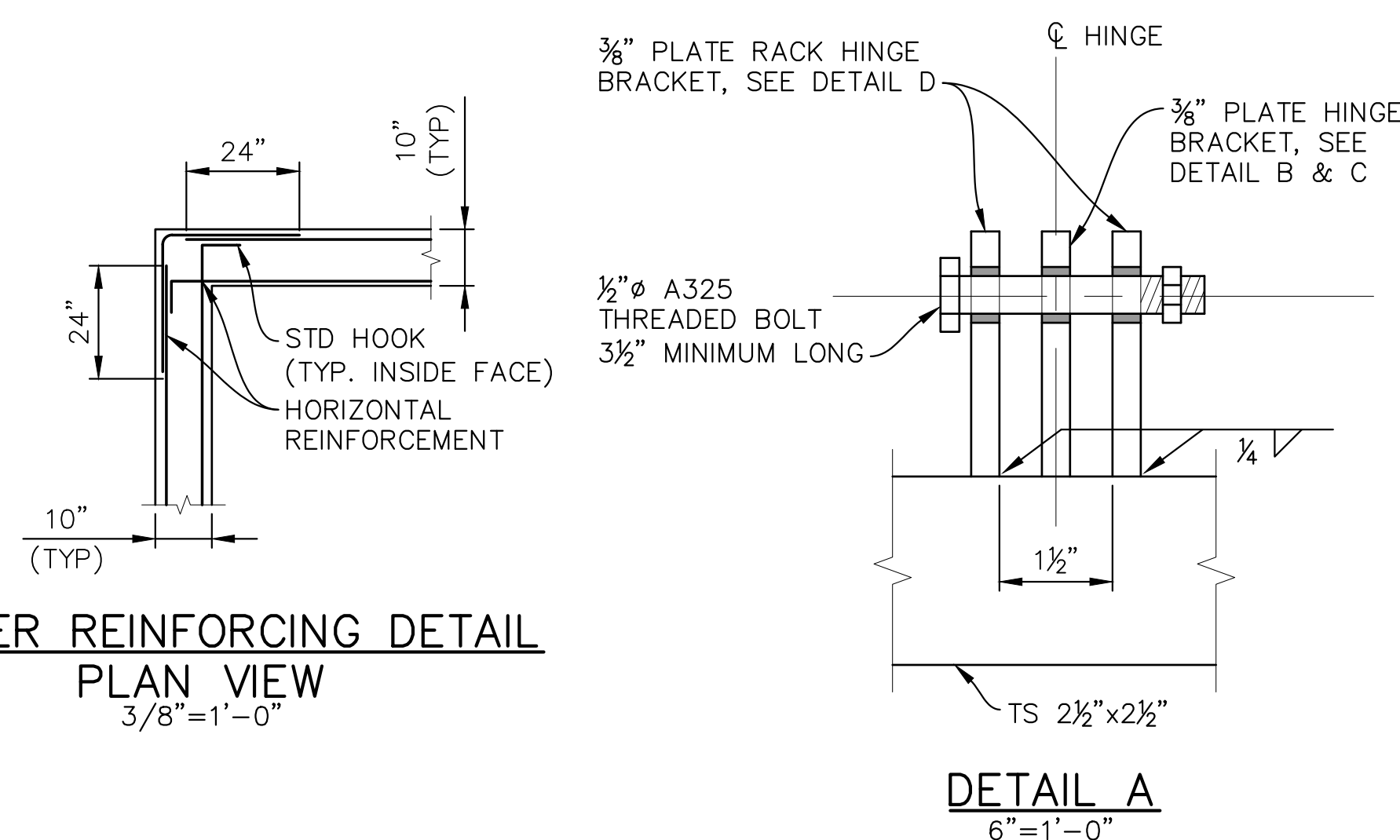
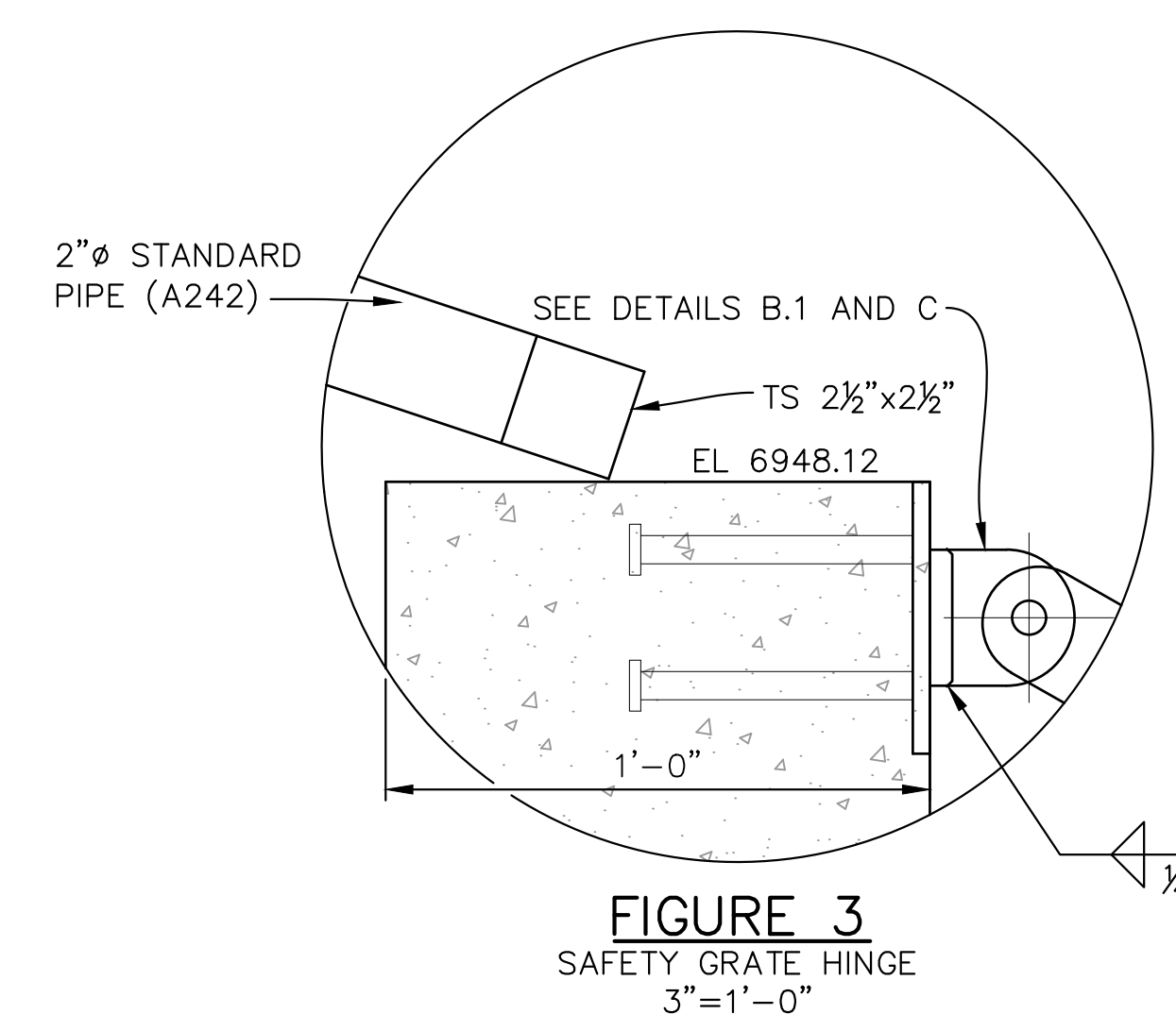
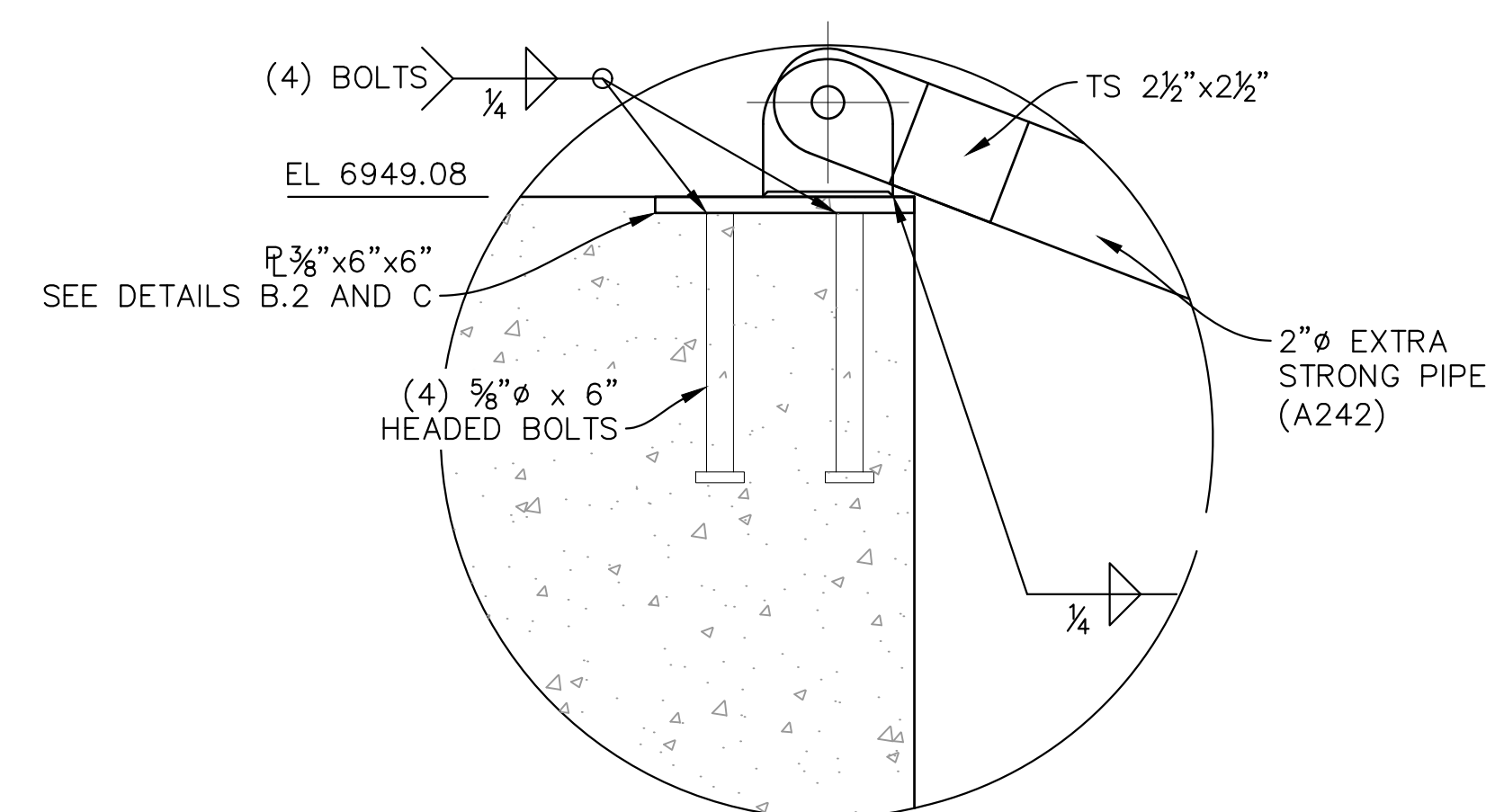
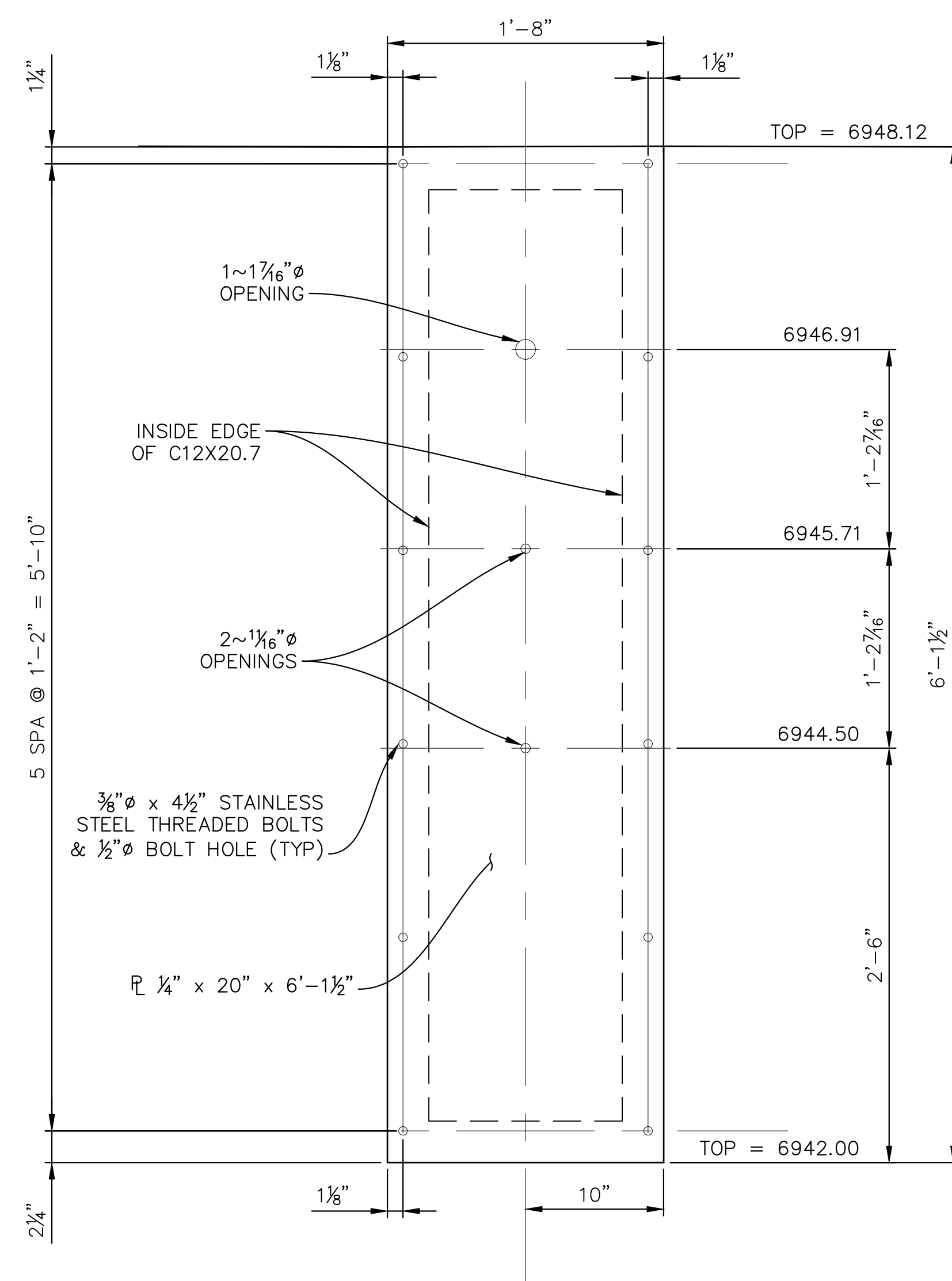
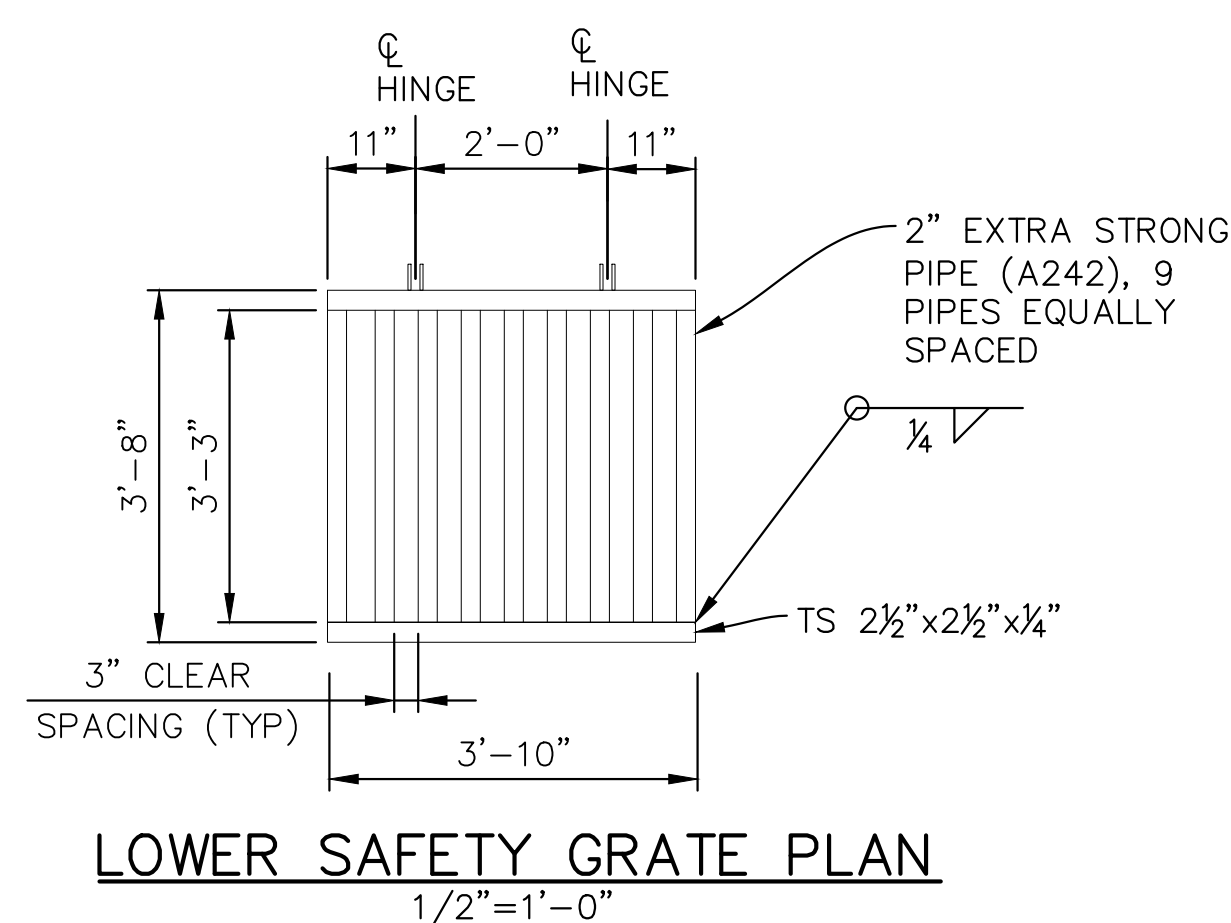
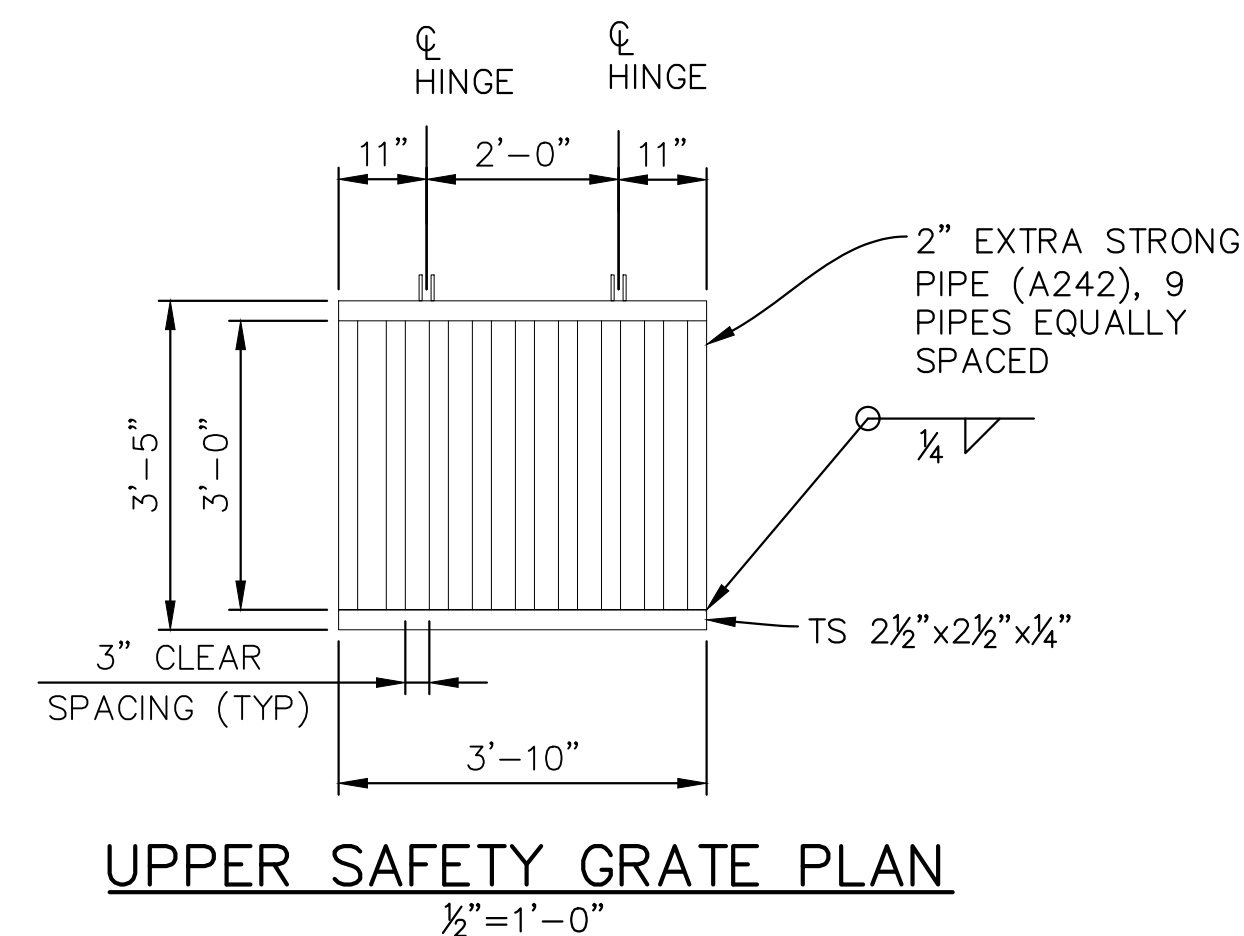
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023

POND OUTLET STRUCTURE DETAILS

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ. AS SHOWN	SHEET	21 OF 28	SDT02
CHECKED BY:	DRK	VERT. AS SHOWN			



Know what's below.
Call before you dig



NOTES:

WATERSTOP SHALL BE VOLCLAY WATERSTOP
RX 101 OR EARTHSHIELD JP 648 OR
APPROVED EQUAL.

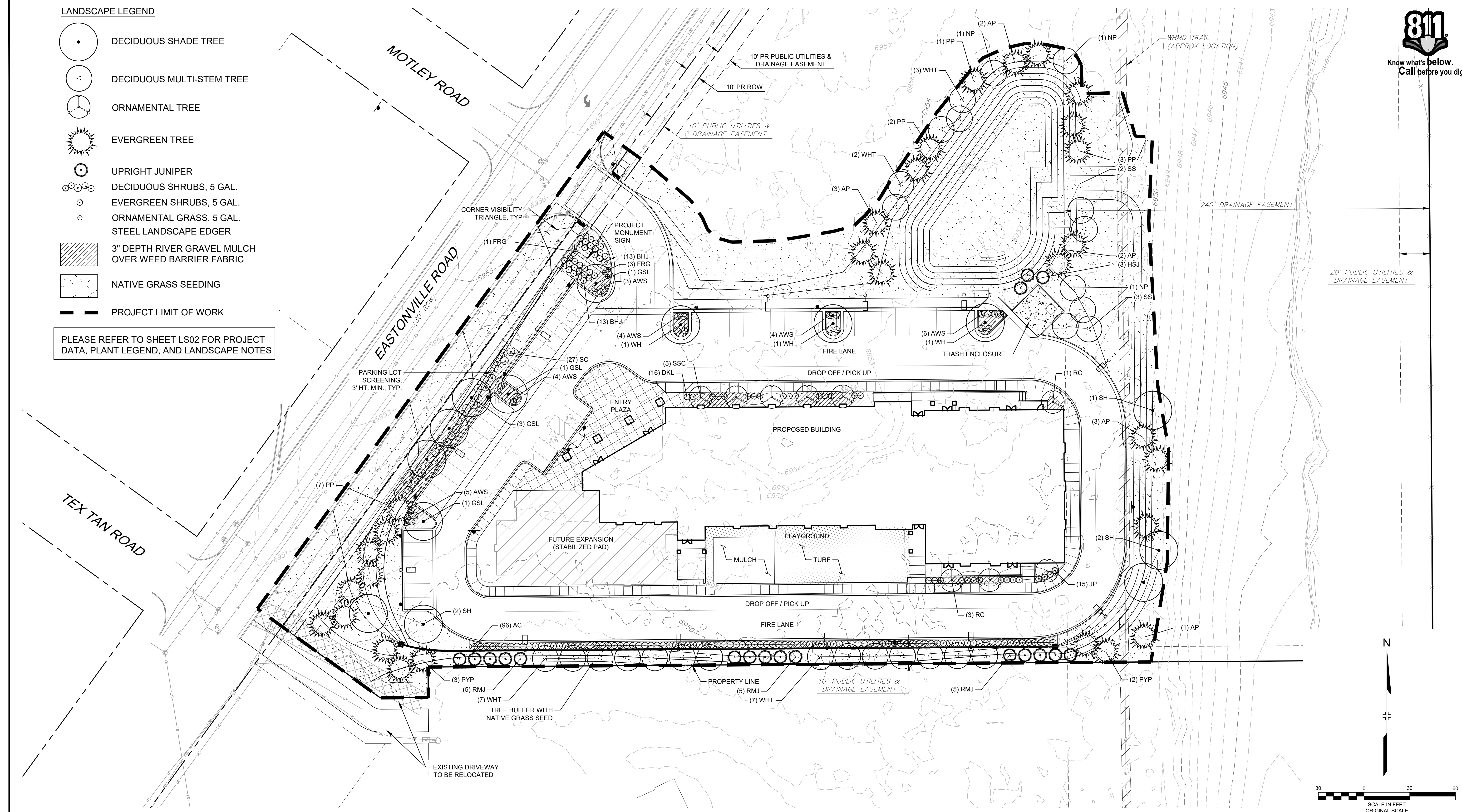
PLACE WATERSTOP FOR ENTIRETY OF EACH
HORIZONTAL & VERTICAL CONSTRUCTION
JOINT.



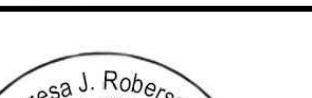
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Know what's below.
Call before you dig



REFERENCE DRAWINGS						SHEET KEY				LIBERTY TREE ACADEMY			
	X-995-MDG22x34 X-995-PR-BASE X-995-EX-BASE X-995-EK-MAP X-995-PR-GRAD X-995-PR-LANDSCAPE Planting Details									TOWN OF PEYTON, EL PASO COUNTY			
										CONSTRUCTION DOCUMENTS, PCD FILE NO. PPR-18-023			
										LANDSCAPE PLAN			
	No.	DATE	DESCRIPTION			BY							
						REVISIONS							
						COMPUTER FILE MANAGEMENT							
						FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\Landscape\LS01_CD.dwg							
						CTB FILE:							
						PLOT DATE: 9/11/2018 8:43 AM							
						THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.							
										DESIGNED BY: ACR DRAWN BY: ACR CHECKED BY: DRK SCALE: 1" = 30' DATE ISSUED: SEPTEMBER 2018 SHEET: 23 OF 29 DRAWING No. LS01			



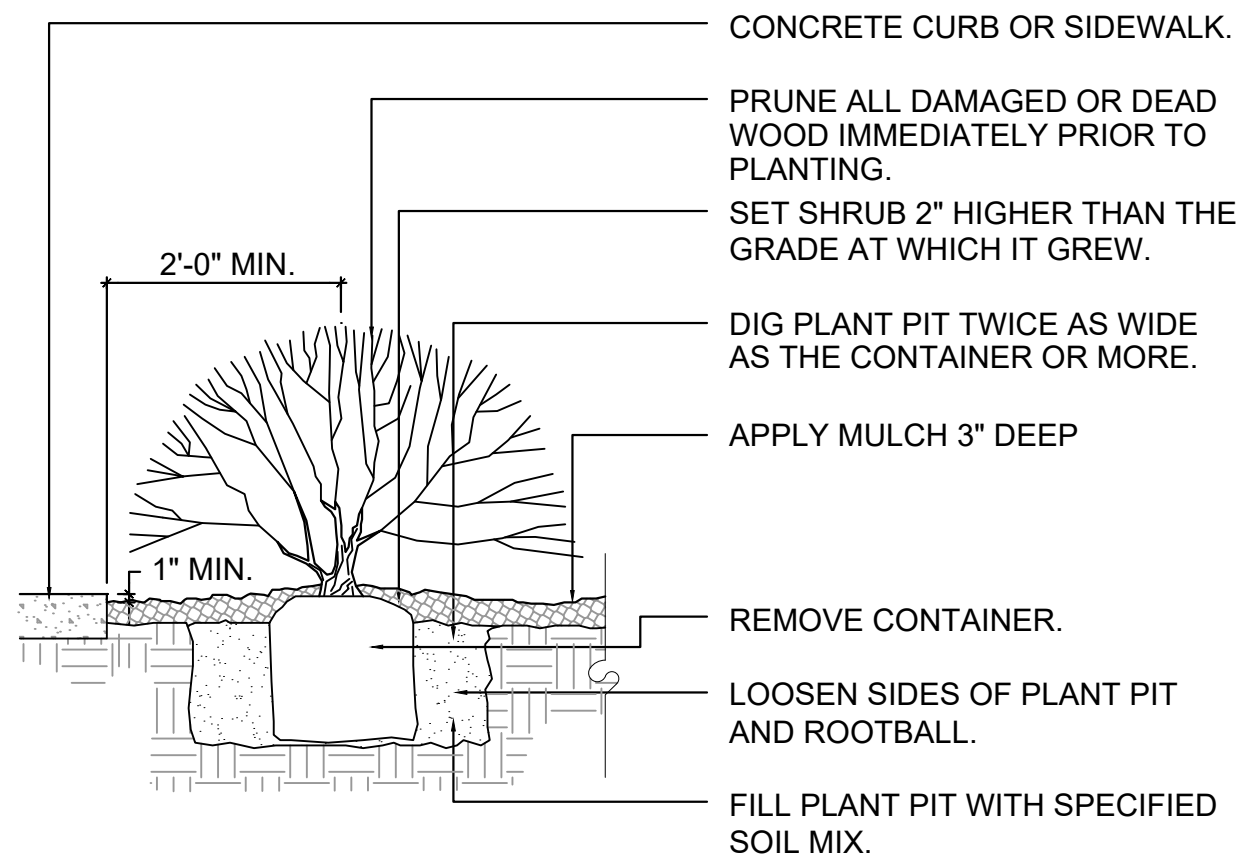
PLANT LEGEND						
	SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
DECIDUOUS SHADE TREES						
	GSL	6	ACCOLADE ELM	ULMUS JPAONICA X WILSONIANA	1.5" CAL.	B&B
	SH	5	SKYLINE HONEYLOCUST	GLEDTISIA TRIACANTHOS INERMIS 'SKYLINE'	1.5" CAL.	B&B
	WH	3	WESTERN HACKBERRY	CELTIS OCCIDENTALIS	1.5" CAL.	B&B
	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 DVARICATA	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 (1½") 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.

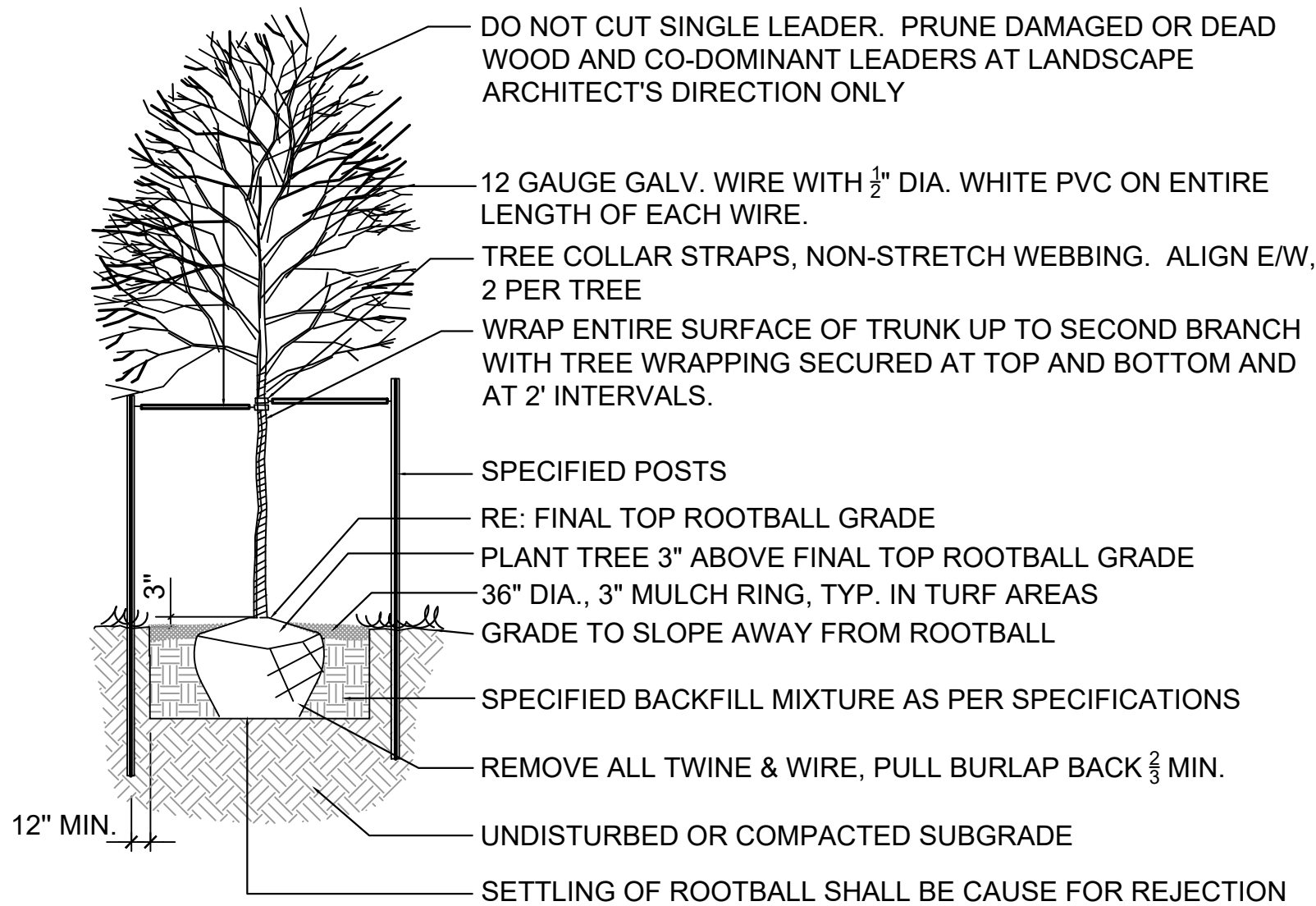


NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

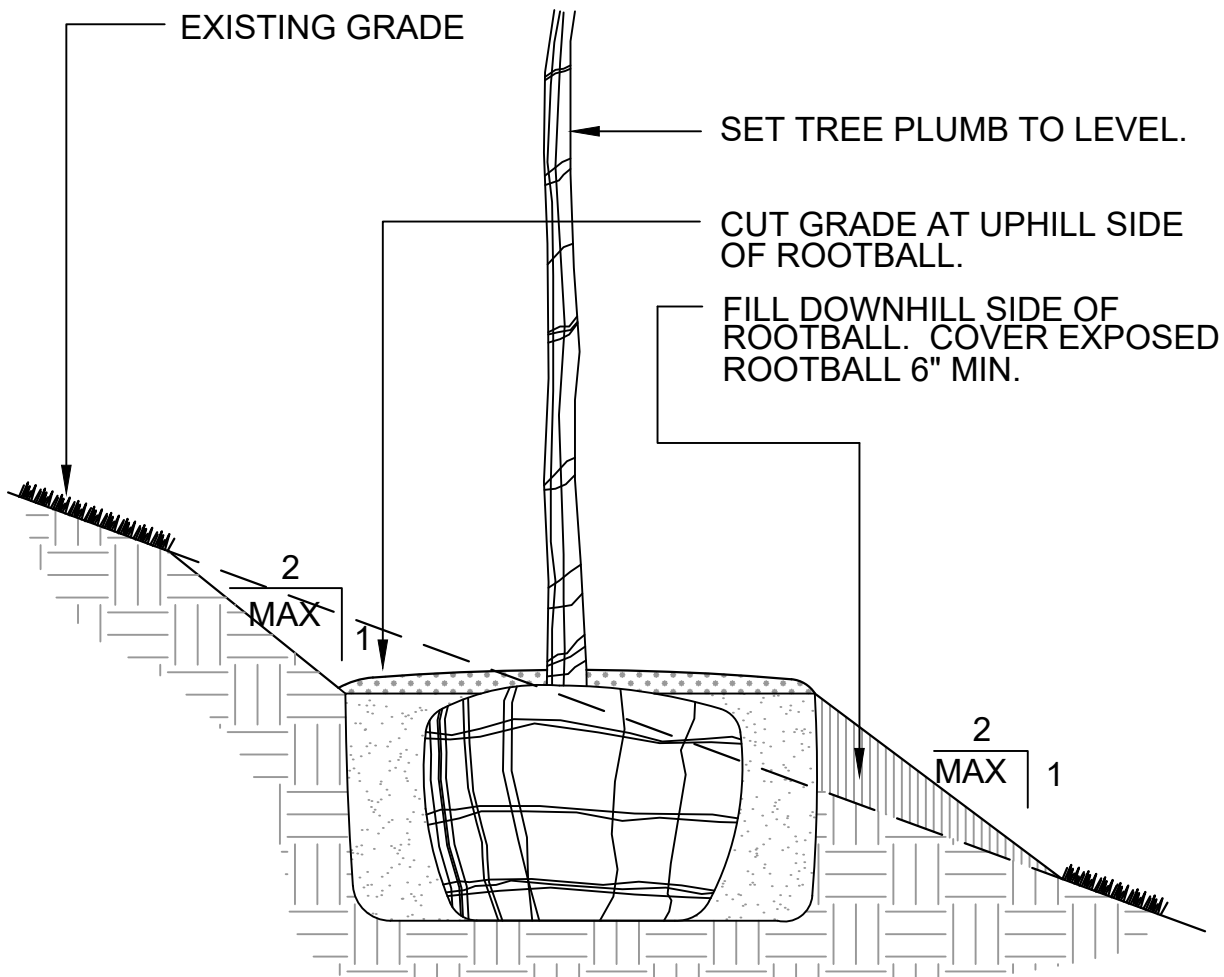
NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB. THIS DETAIL SHALL ALSO APPLY TO PERENNIAL FLOWERS IN CONTAINER.

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

SHRUB PLANTING
NTS



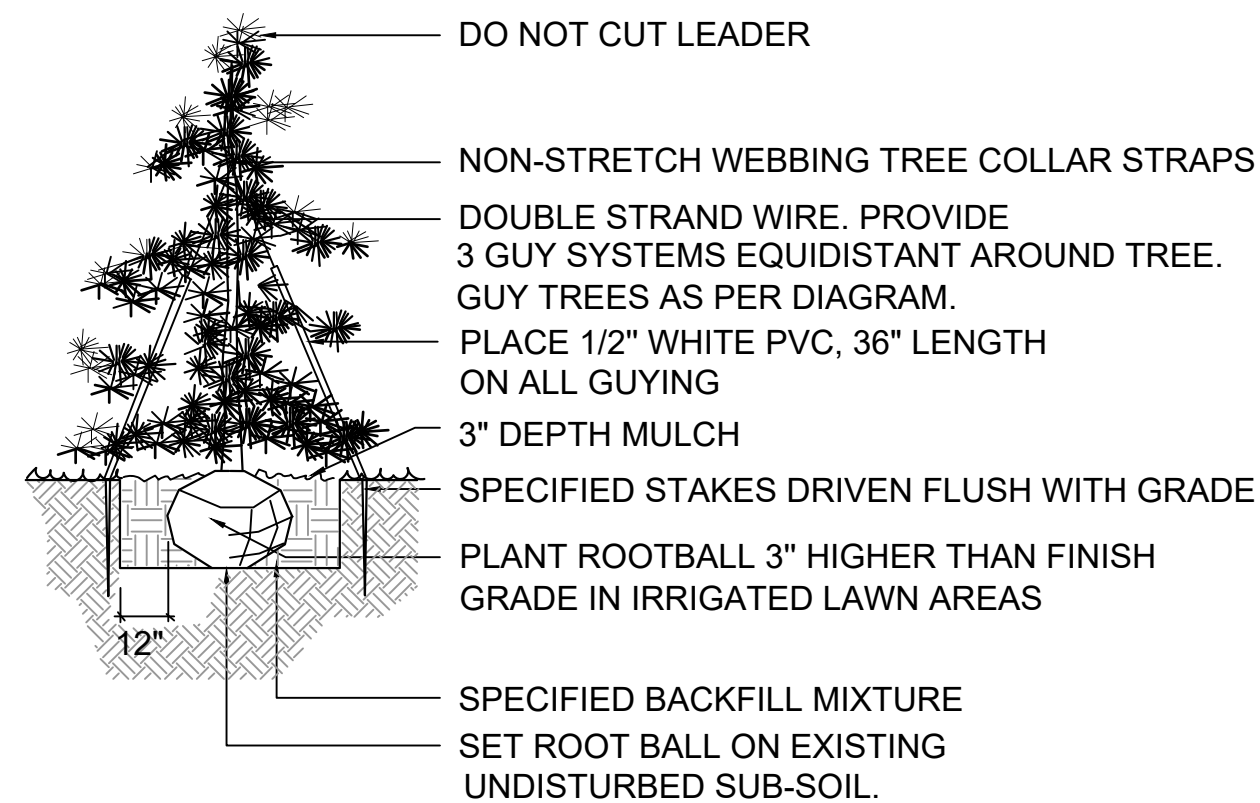
DECIDUOUS TREE PLANTING
NTS



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-MDQ22x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-GRAD
X-995-PR-LANDSCAPE
Planting Details

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\LandscapelS01_CD.dwg
CTB FILE: ----
PLOT DATE: 9/11/2018 8:43 AM
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

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, PCD FILE NO. PPR-18-023

LANDSCAPE NOTES

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	SEPTEMBER 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	NA		LS02
CHECKED BY:	DRK	VERT.	NA		

1. 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.

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

- | <u>SLEEVED PIPE SIZE/WIRE QUANTITY</u> | <u>REQUIRED SLEEVE SIZE & (QUANTITY)</u> |
|--|--|
| ¾" - 1¼" PIPING | 2" PVC (1) |
| 1½" - 2" PIPING | 4" PVC (1) |
| 2½" - 3" PIPING | 6" PVC (1) |
| COMMUNICATION CABLE | 2" PVC (1) |

IRRIGATION NOTES

IRRIGATION SCHEDULE IR1

IRRIGATION PLANS IR2

IRRIGATION DETAILS IR3 - IR4

LS01_SDP
X-995-PR-LANDSCAPE
X-995-EX-BASE
X-995-EX-MAP
X-995-MDG22x34
X-995-PR-BASE
X-995-PR-GRAD

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

FILE NAME: T:\6400-6499 Jobs\6449- Liberty Tree Academy\6xxx-Liberty Tree Academy-IRR-CD.dwg

CTB FILE:

PLOT DATE: 8/10/2018 9:32 AM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE

SHEET KEY

N

1

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

DESIGNED BY

DRAWN BY:
CHECKED BY:

KC

KC
KID

DATE ISSUED:

SHEET

AUGUST 2018

25 OF 29

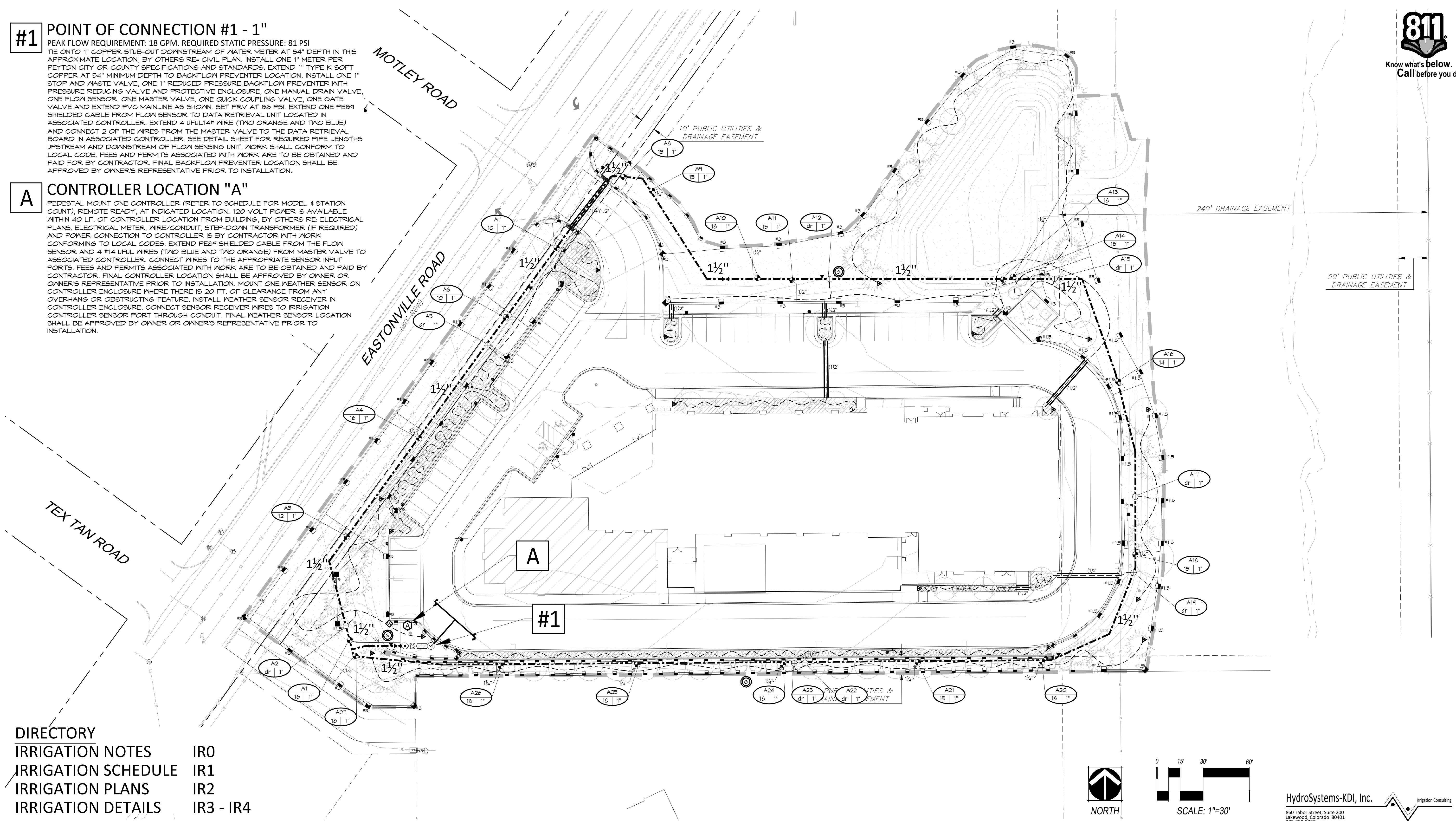
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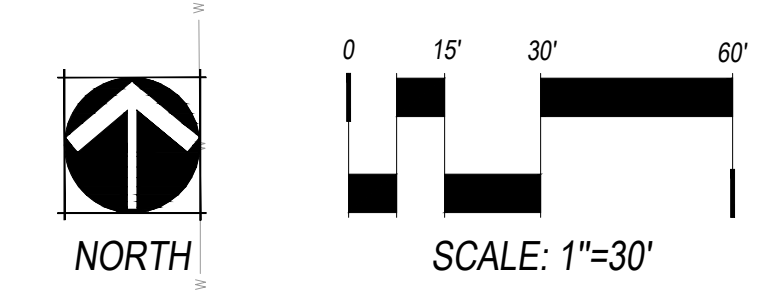


#1 POINT OF CONNECTION #1 - 1"
PEAK FLOW REQUIREMENT: 18 GPM. REQUIRED STATIC PRESSURE: 81 PSI
TIE ONTO 1" COPPER SUB-OUT DOWNSTREAM OF WATER METER AT 54" DEPTH IN THIS APPROXIMATE LOCATION. BY OTHERS RE- CIVIL PLAN. INSTALL ONE 1" METER PER PEYTON CITY OR COUNTY SPECIFICATIONS AND STANDARDS. EXTEND 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 PVC 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.

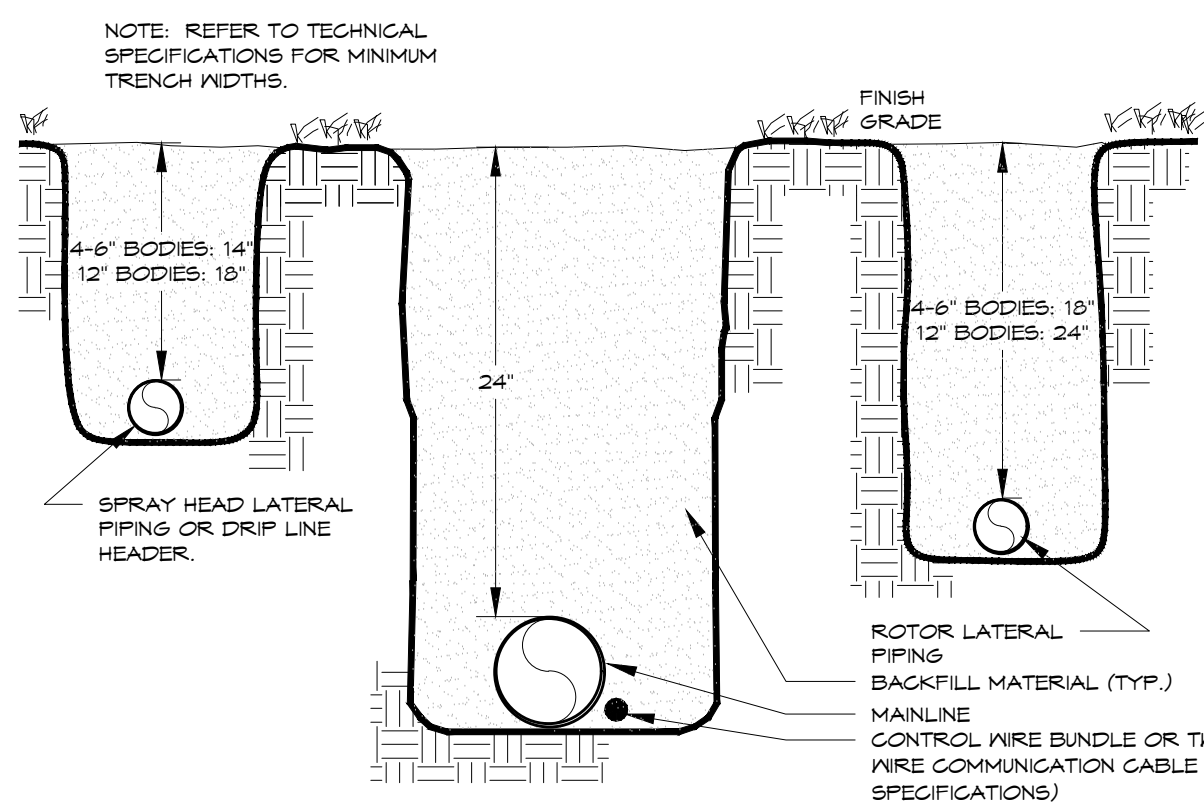


DIRECTORY	
IRRIGATION NOTES	IR0
IRRIGATION SCHEDULE	IR1
IRRIGATION PLANS	IR2
IRRIGATION DETAILS	IR3 - IR4



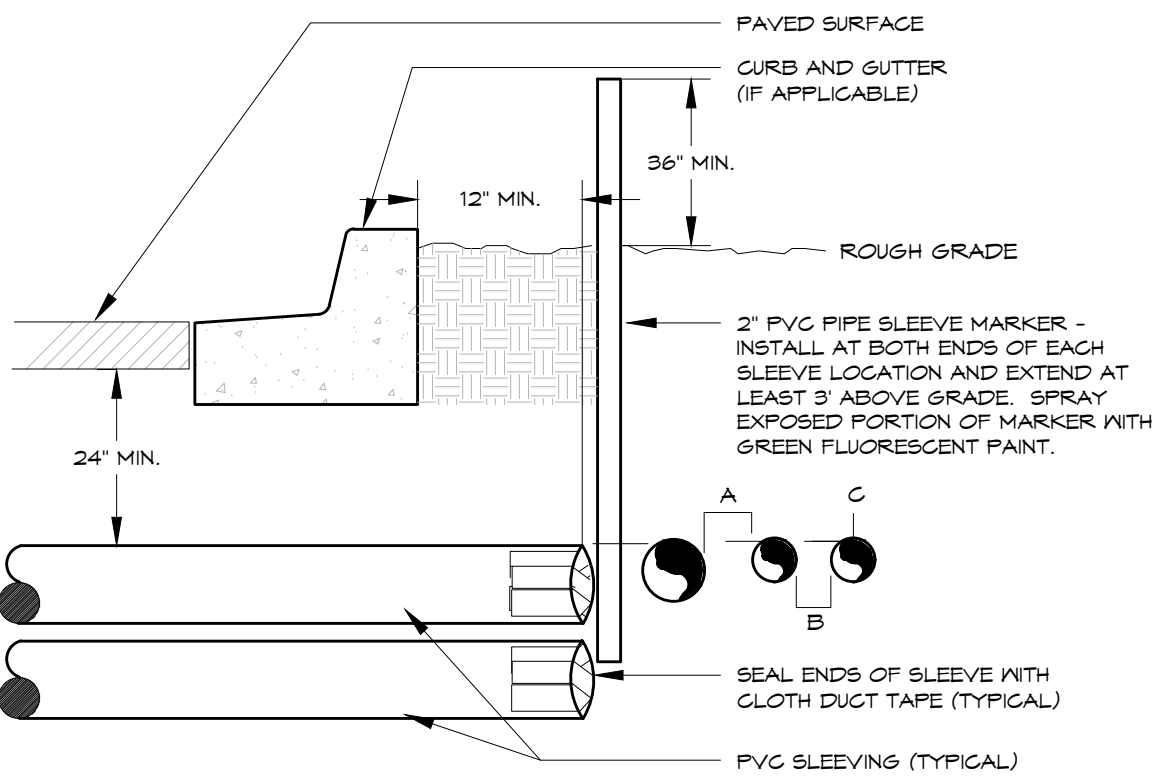
HydroSystems-KDI, Inc.  Irrigation Consulting
860 Tabor Street, Suite 200
Lakewood, Colorado 80401
303-980-5327
303-980-5384 (fax)

REFERENCE DRAWINGS 01-SDP 006-PR-LANDSCAPE 995-EX-BASE 995-EX-MAP 995-MDG22x34 995-PR-BASE 995-PR-GRAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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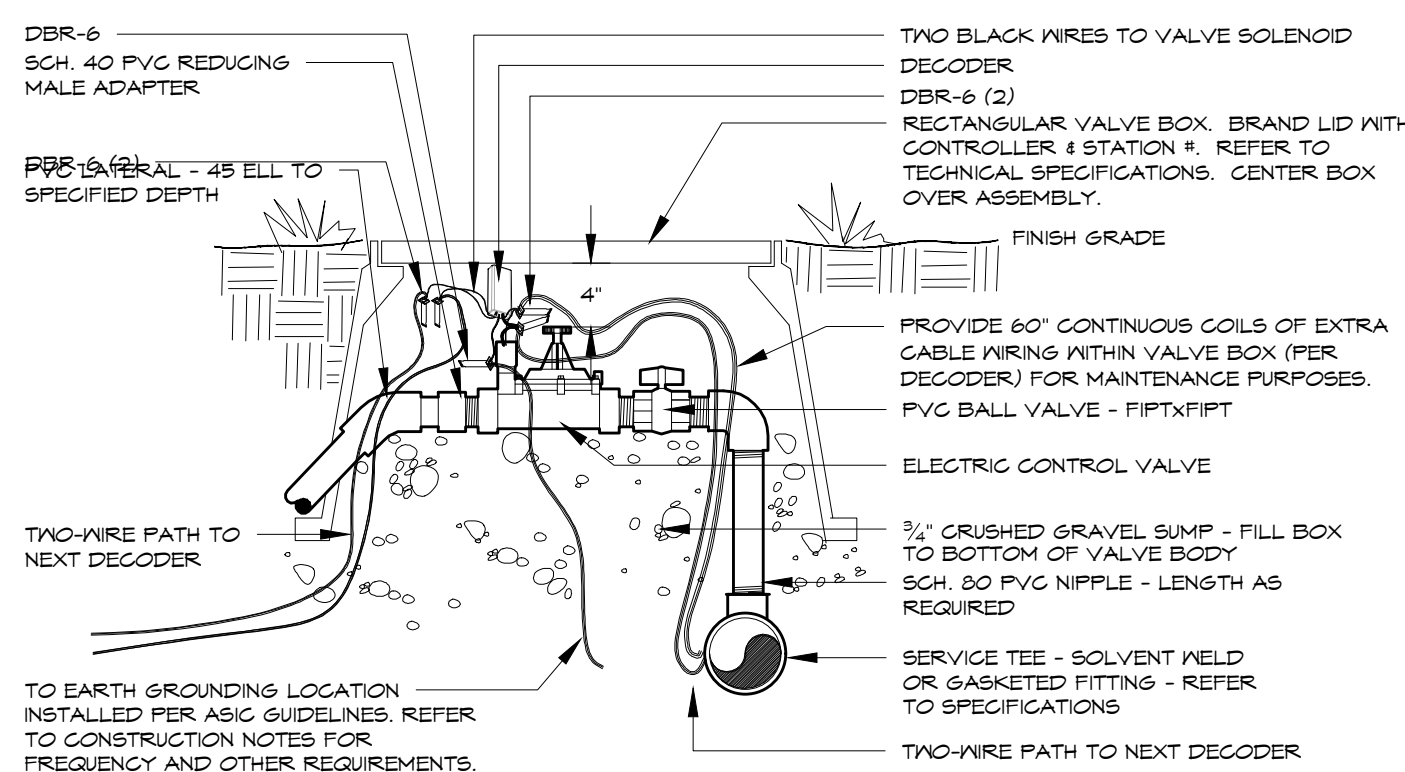
TRENCH
24" MAINLINE

9



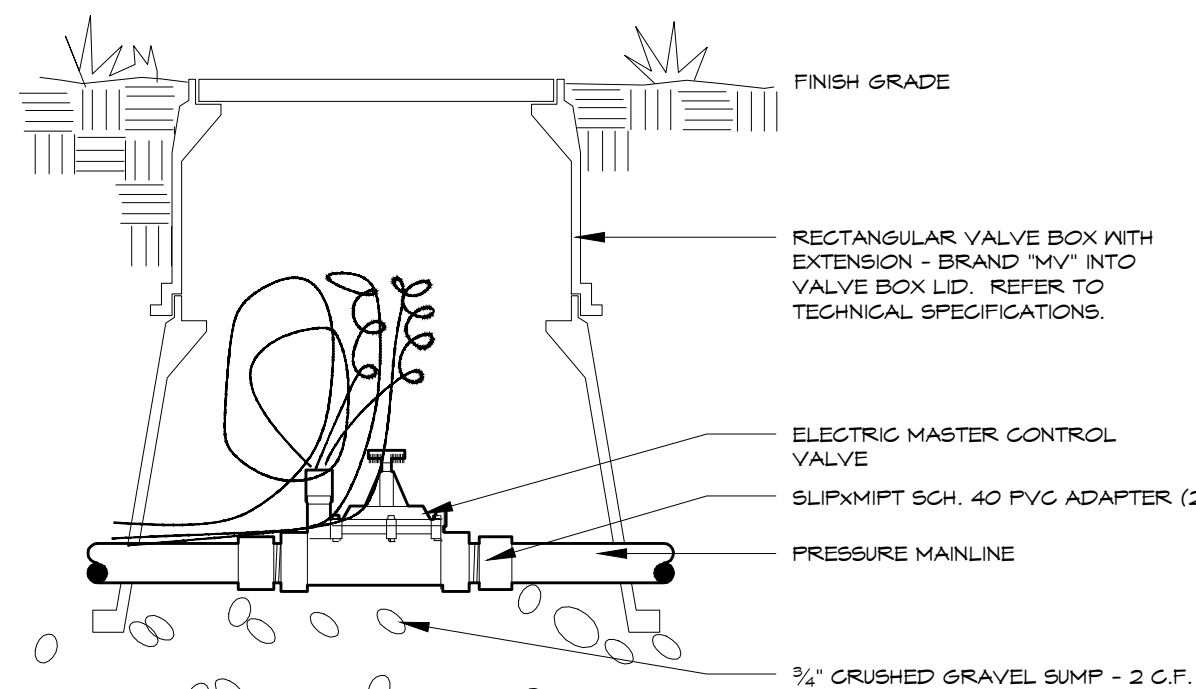
IRRIGATION SLEEVING

10



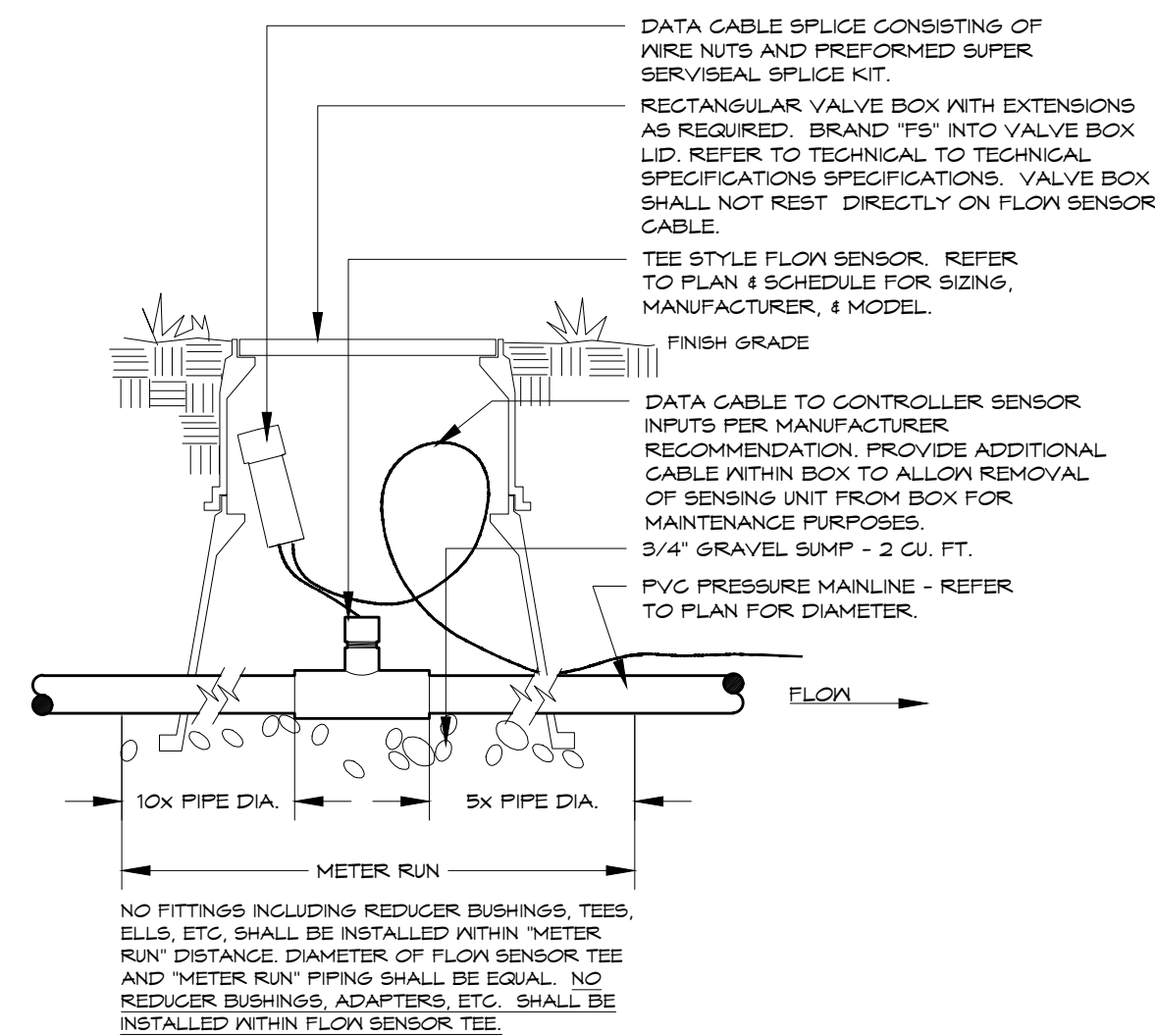
ELECTRIC CONTROL VALVE
TWO-WIRE SYSTEM - PVC PIPE

11



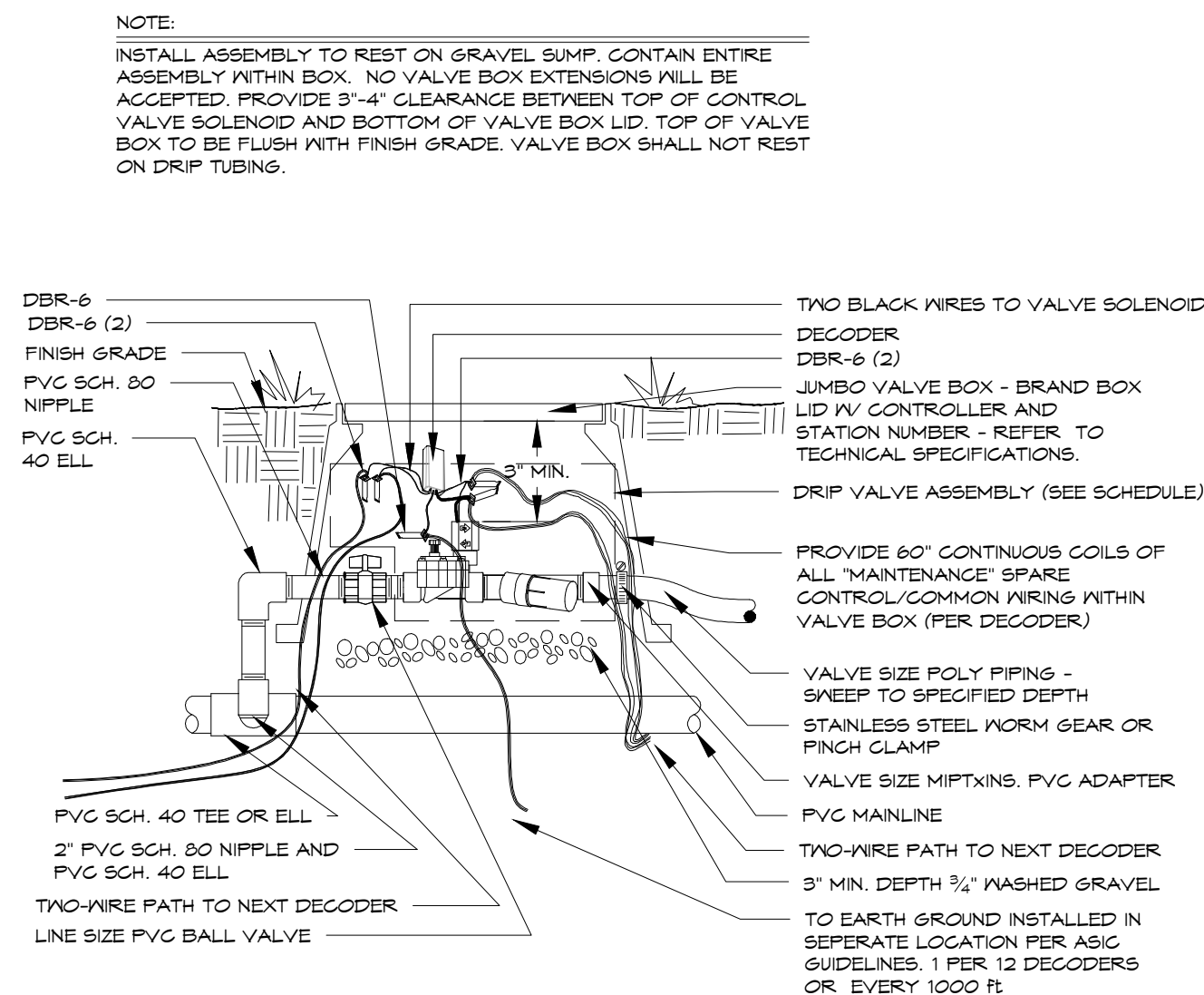
MASTER VALVE
24V - Small - Typical

12



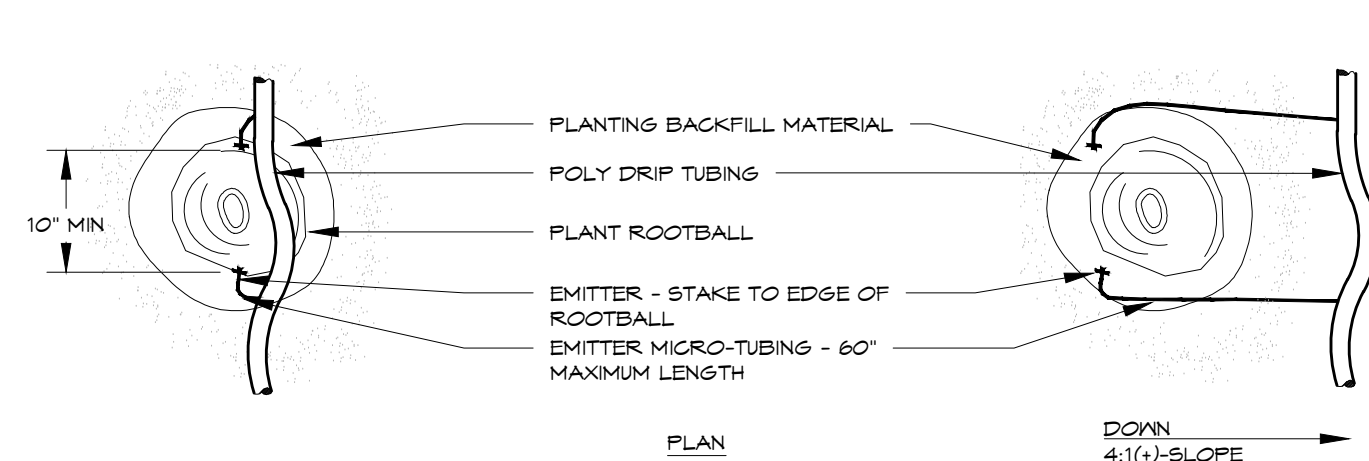
FLOW SENSOR
VIA DATA CABLE - TEE STYLE

13



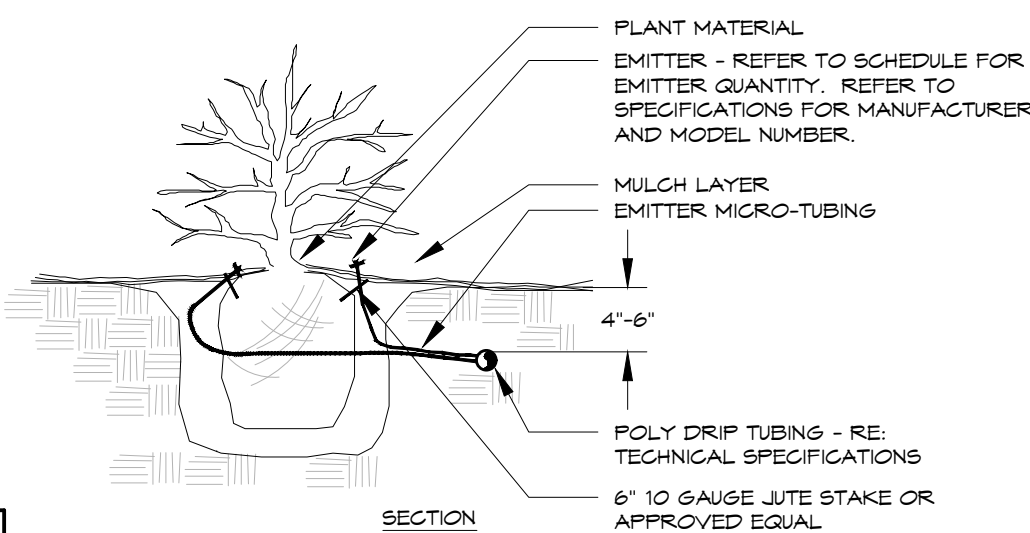
DRIP VALVE
TWO-WIRE SYSTEM - KIT - POLY PIPE

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\" CALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2\" CALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2\" CALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3\" CALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2\" CALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4\" CALIPER 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



- NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
 - EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 - FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 - IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
 - EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 - DRIp VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 - CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 - SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 - EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 - EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 - PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

15

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

HydroSystems-KDI, Inc. Irrigation Consulting
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303-980-5384 (fax)

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