

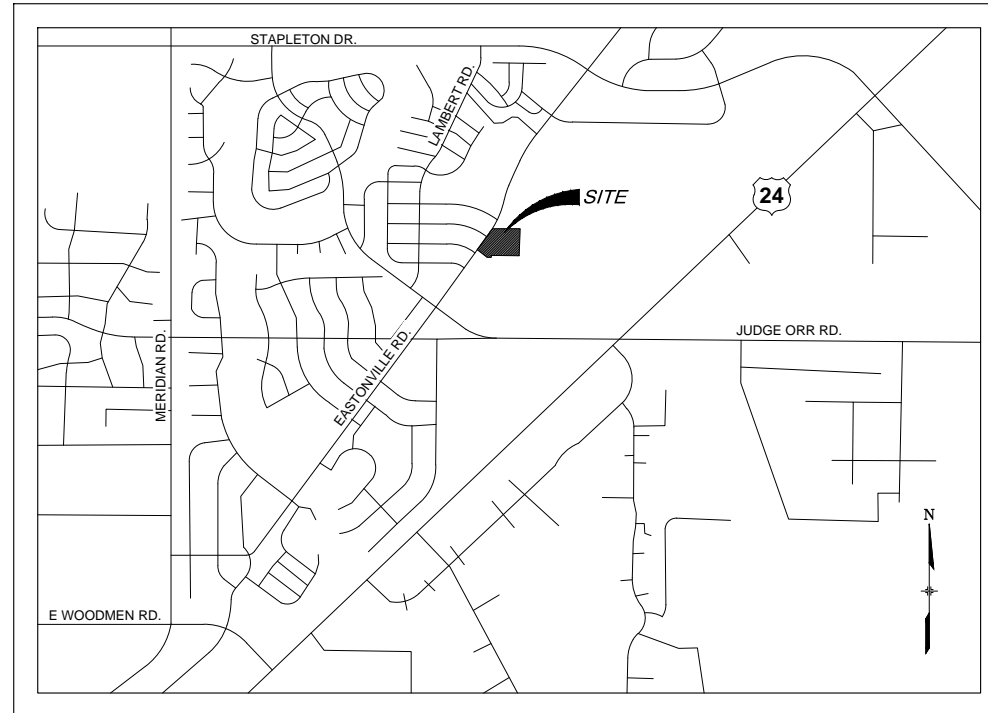
TOWN OF PEYTON, EL PASO COUNTY

MAY 2018

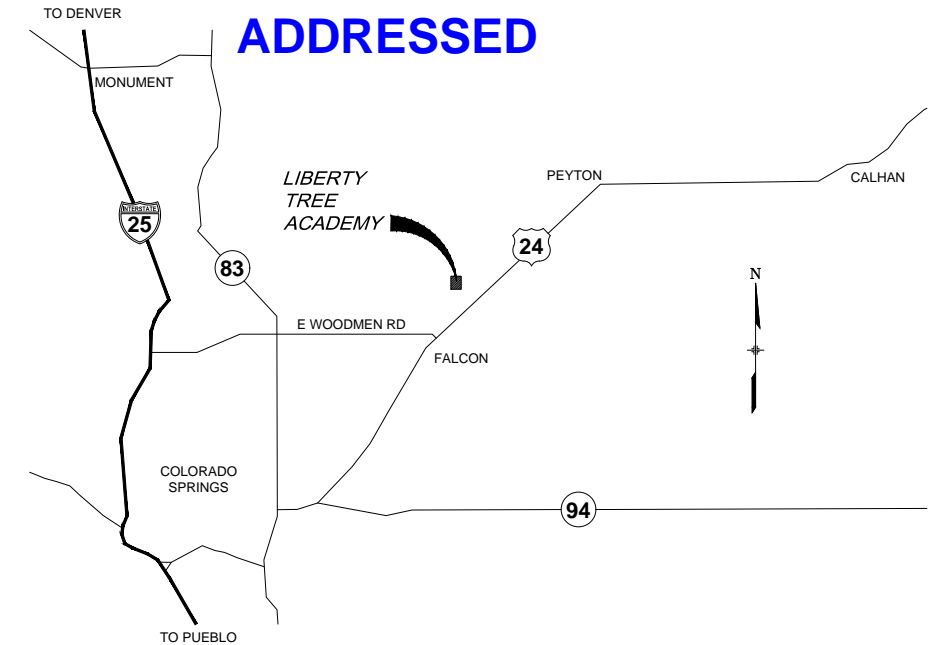
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with final.
**RESPONSE:
ADDRESSED**

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TS01	TITLE SHEET	1
GN01	GENERAL NOTES	2
LA01	LEGEND & ABBREVIATIONS	3
SP01	SITE PLAN	4
HC01	HORIZONTAL CONTROL PLAN	5
GR01	GRADING PLAN	6
UT01	OVERALL UTILITY PLAN	7
SS01	SANITARY SEWER PLAN & PROFILE	8
WT01	SITE WATER MAIN PLAN	9
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EC01	INITIAL EROSION CONTROL PLAN	11
EC02	FINAL EROSION CONTROL PLAN	12
ECDT01-ECDT04	EROSION CONTROL DETAILS	13-16
ST01	SIGNING & STRIPING PLAN	17
LS01	LANDSCAPE PLAN	18

**RESPONSE:
PROVIDED**



SCALE: N.T.S.



SCALE: N.T.S.

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

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

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 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).

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JENNIFER IRVINE, P.E.

DATE _____

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 _____

[illegible]

LIBERTY TREE ACADEMY
CONSTRUCTION DOCUMENTS
TOWN OF PEYTON, EL PASO COUNTY
PRELIMINARY DESIGN
MAY 2018

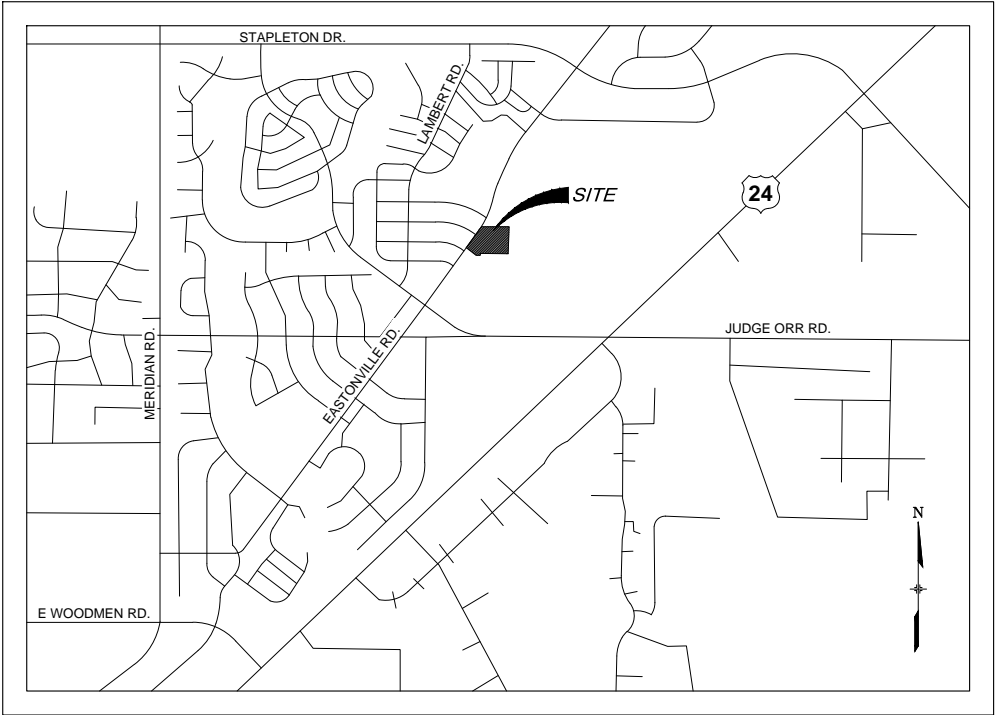


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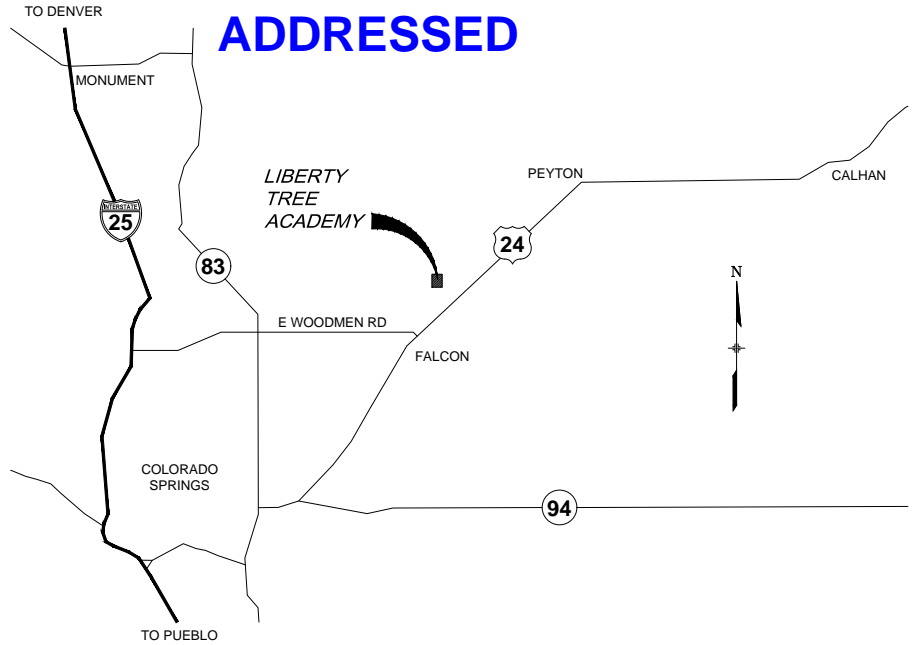
INDEX OF SHEETS

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Provide
**RESPONSE:
PROVIDED**



LOCATION MAP
SCALE: N.T.S.



VICINITY MAP
SCALE: N.T.S.

CIVIL ENGINEER

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

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DAVID KLINE, P.E., PTOE

DATE

JENNIFER IRVINE, P.E.

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					
X-995-MDG22x34					
No.	DATE	DESCRIPTION	BY		
		REVISIONS			
COMPUTER FILE MANAGEMENT					
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Construction Plans\TS01.dwg					
CTB FILE: ---					
PLOT DATE: May 1, 2018 3:41:00 PM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

SHEET KEY



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

TITLE SHEET

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	MAY 2018	DRAWING No.
CHECKED BY:	DRK	HORIZ	SHEET	1 OF 18	TS01



GENERAL CONSTRUCTION PLAN NOTES:

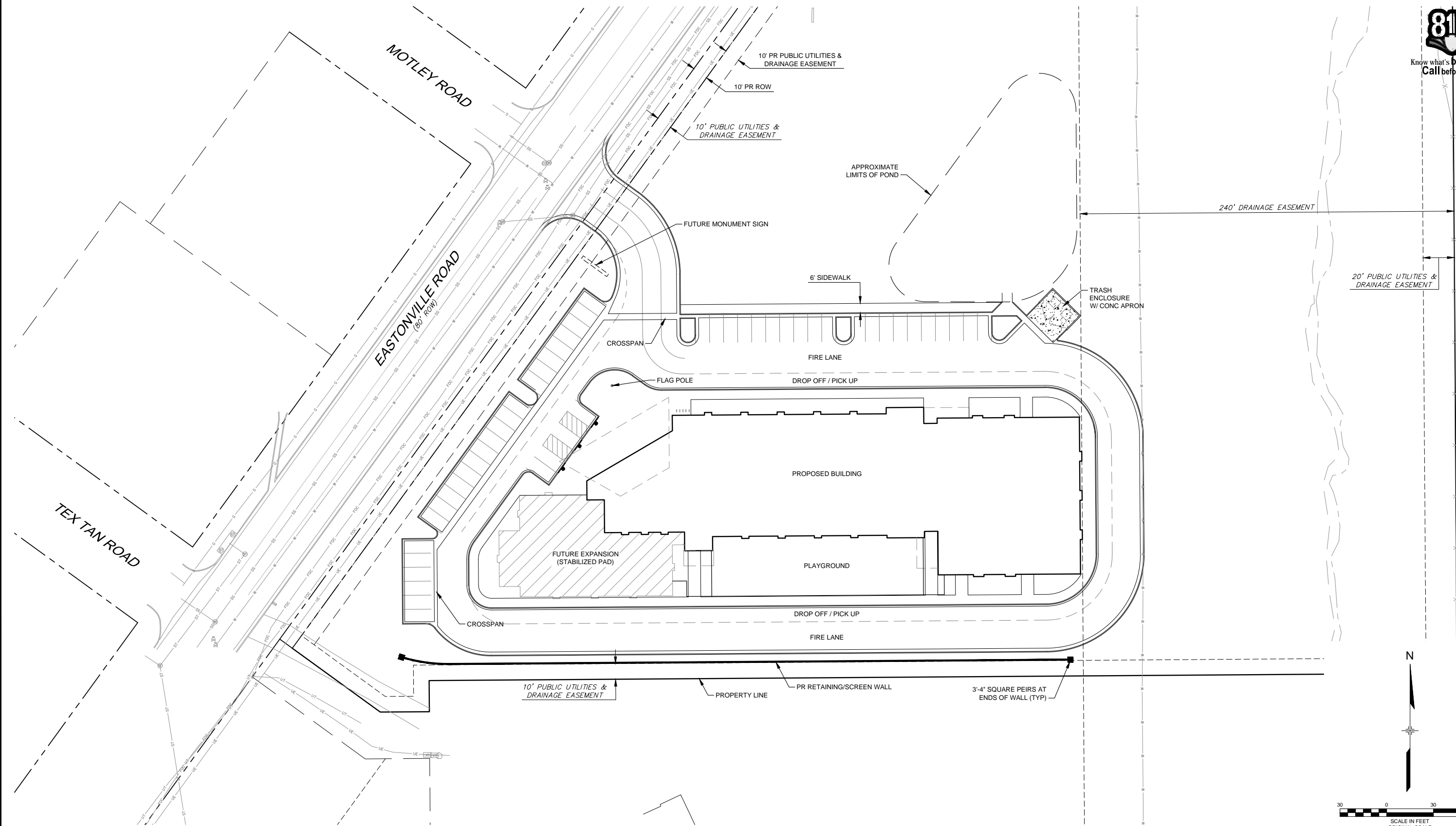
1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - d. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

REFERENCE DRAWINGS X-995-MDG22x34																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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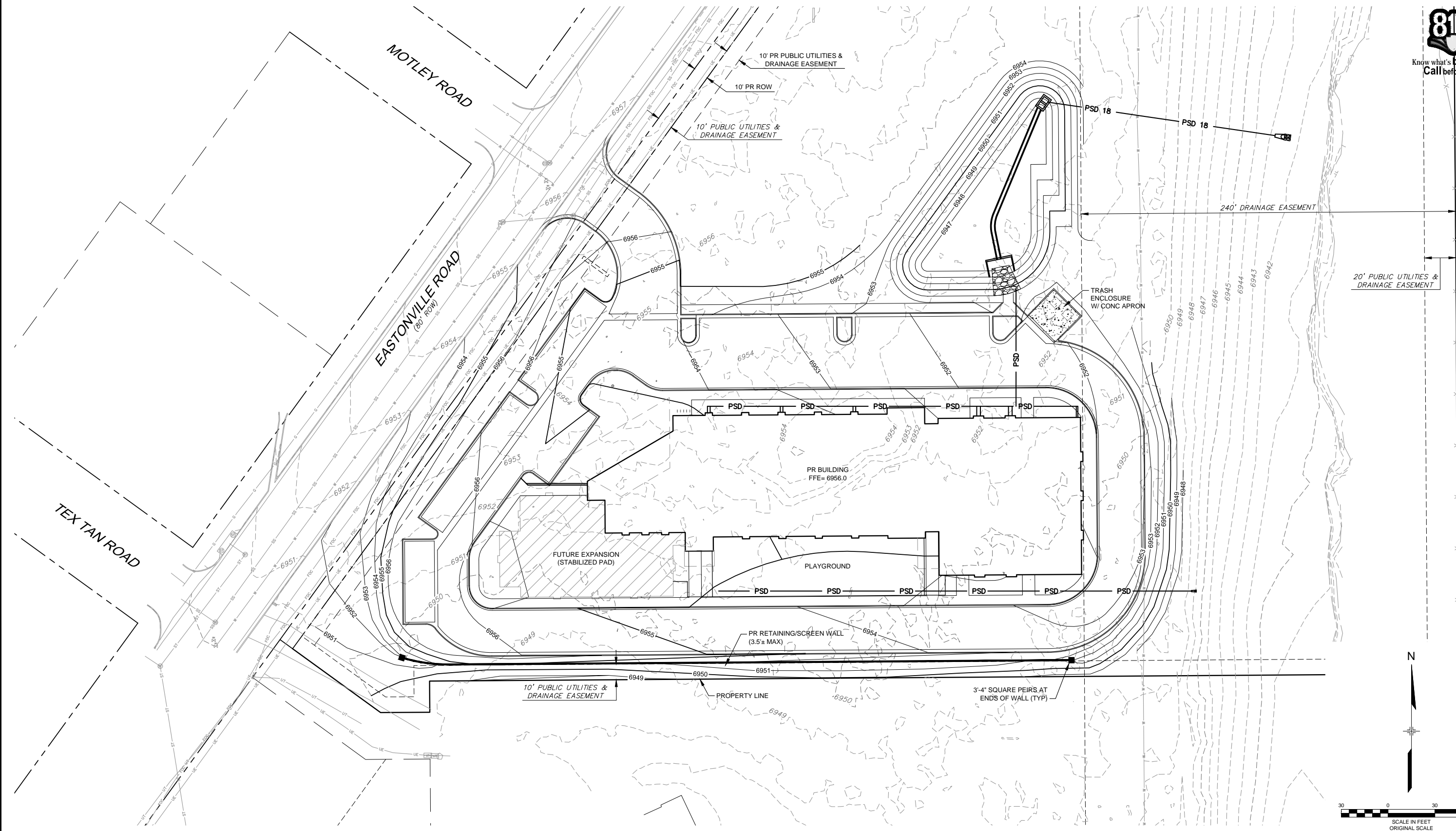
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SITE PLAN			
DESIGNED BY:	ACR	SCALE	DATE ISSUED:
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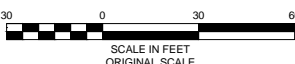
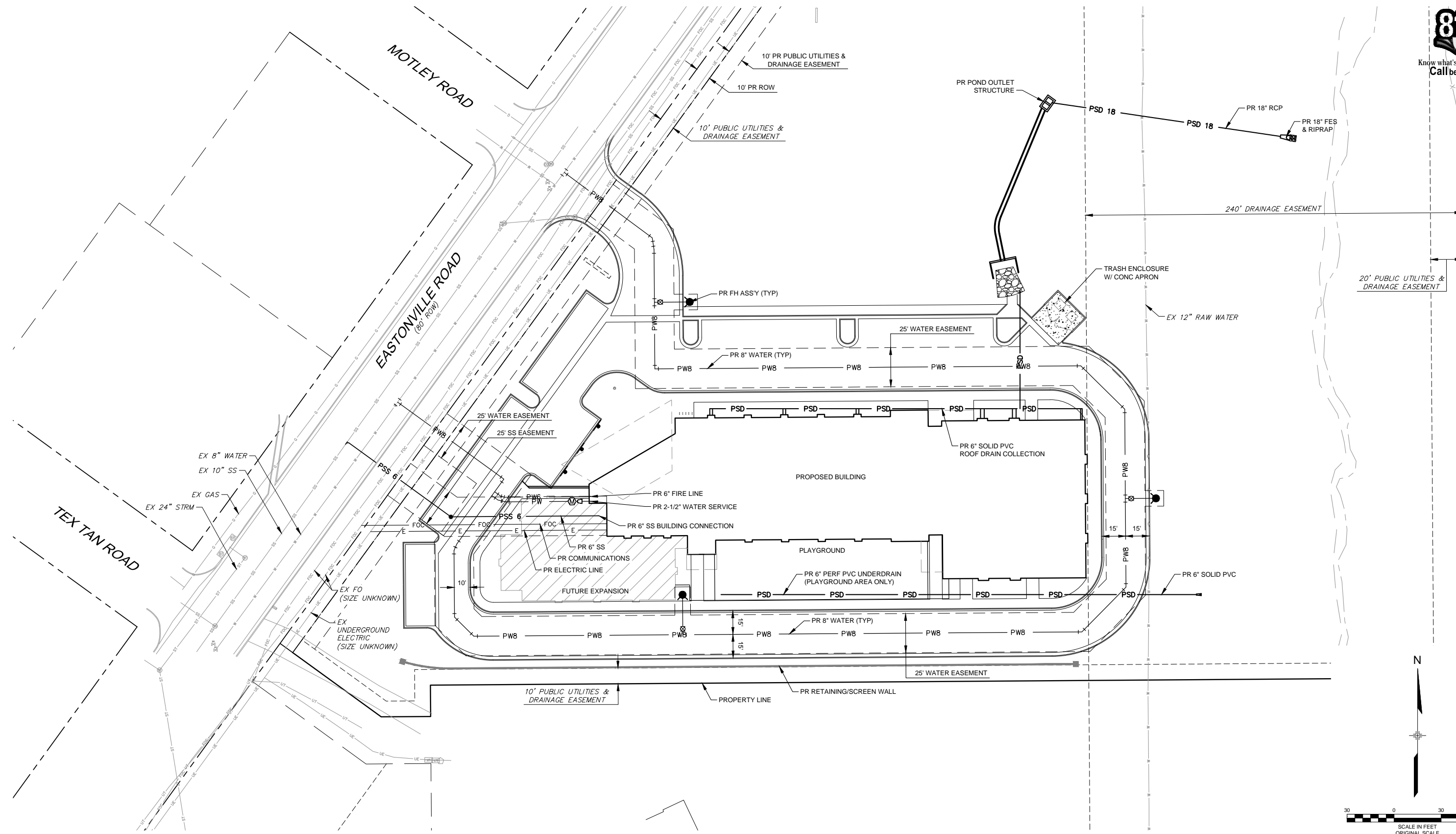


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
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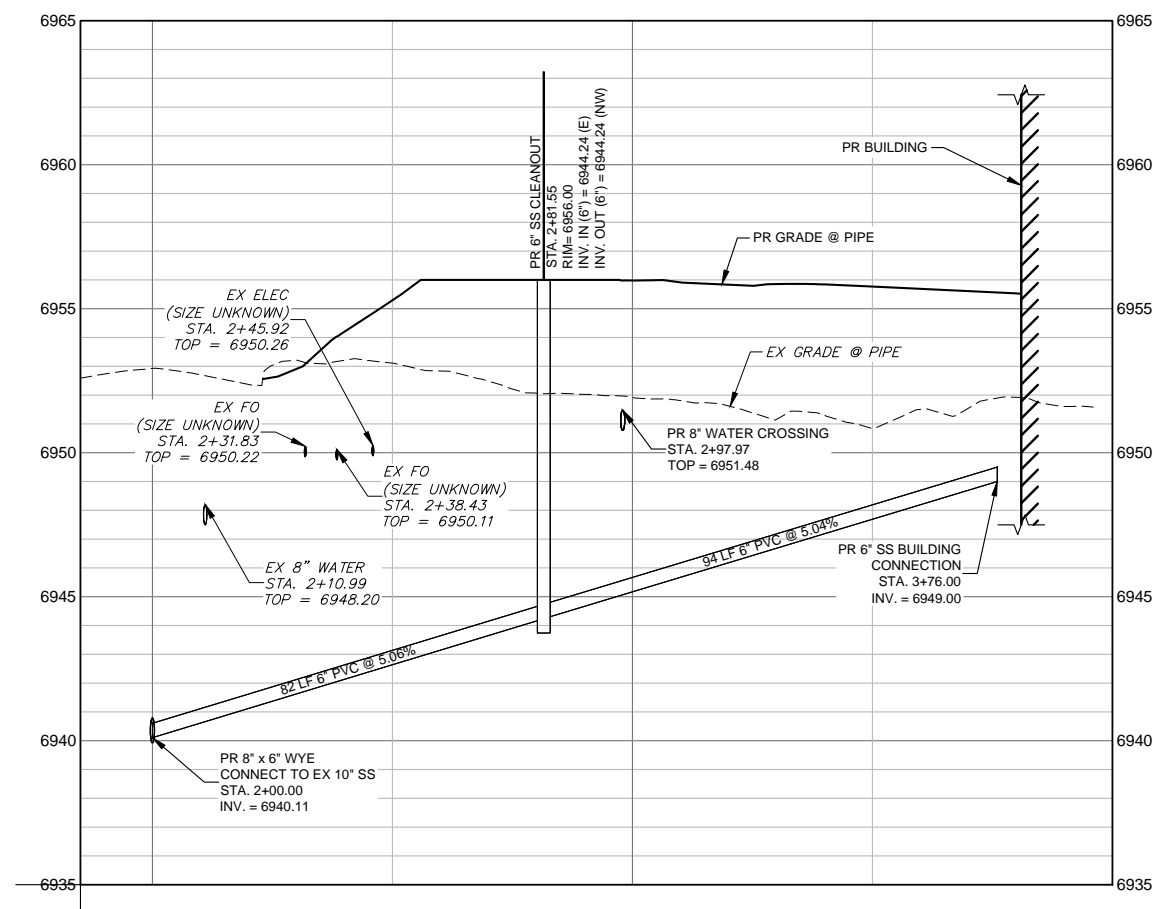
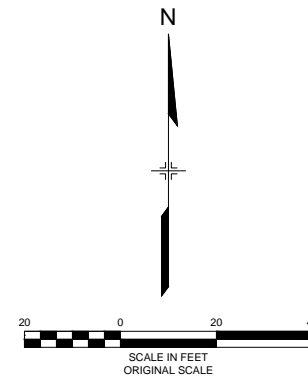
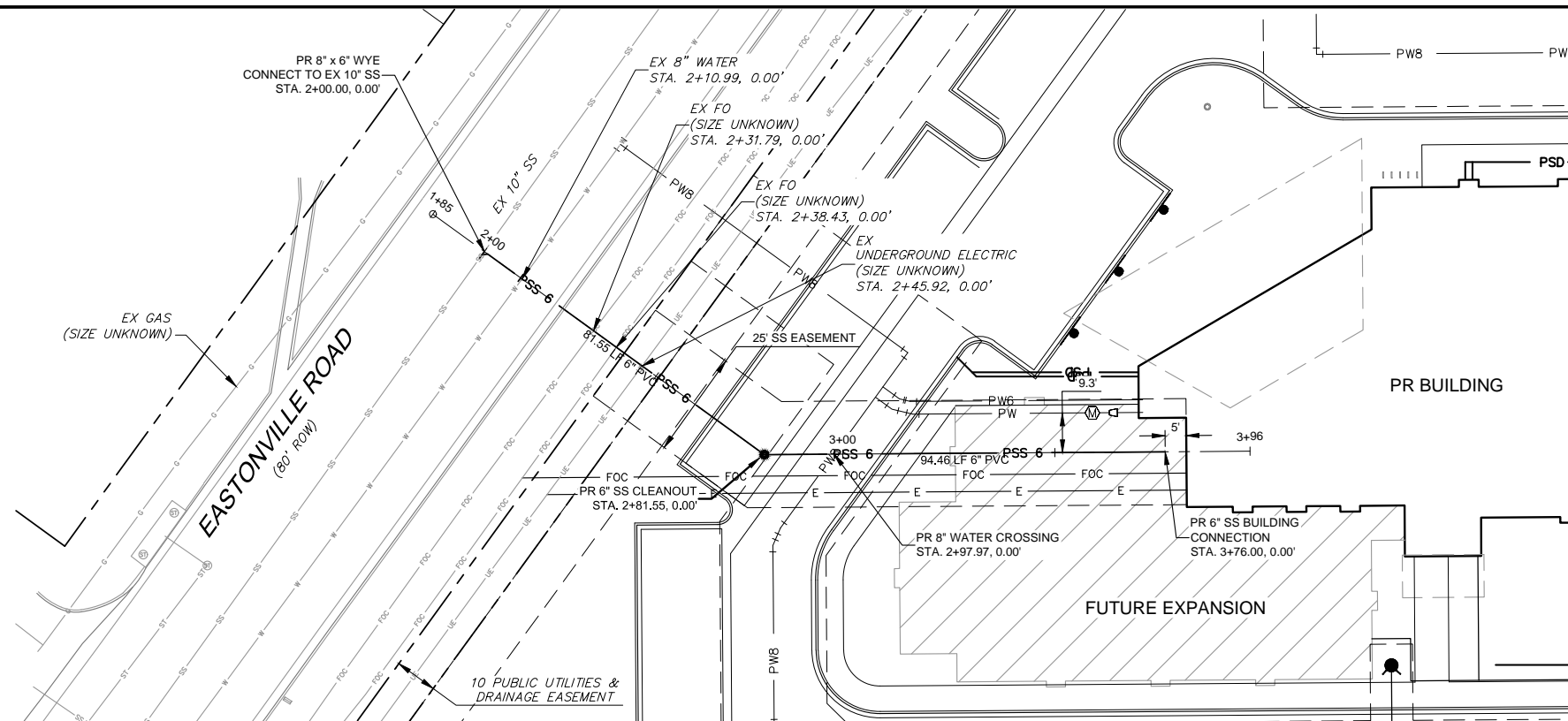
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
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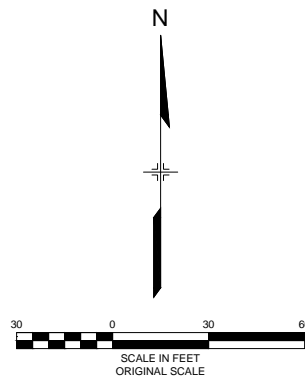
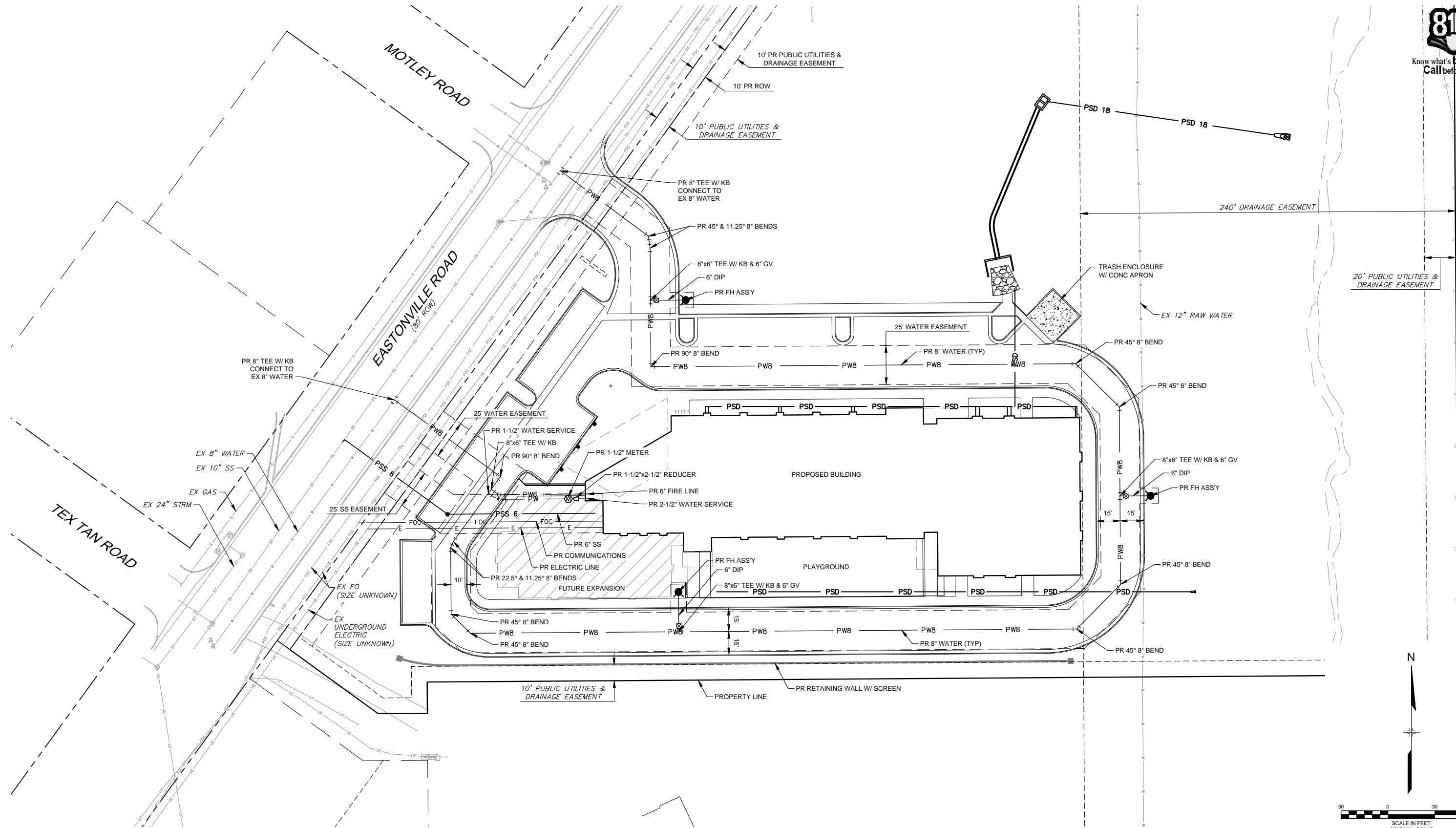
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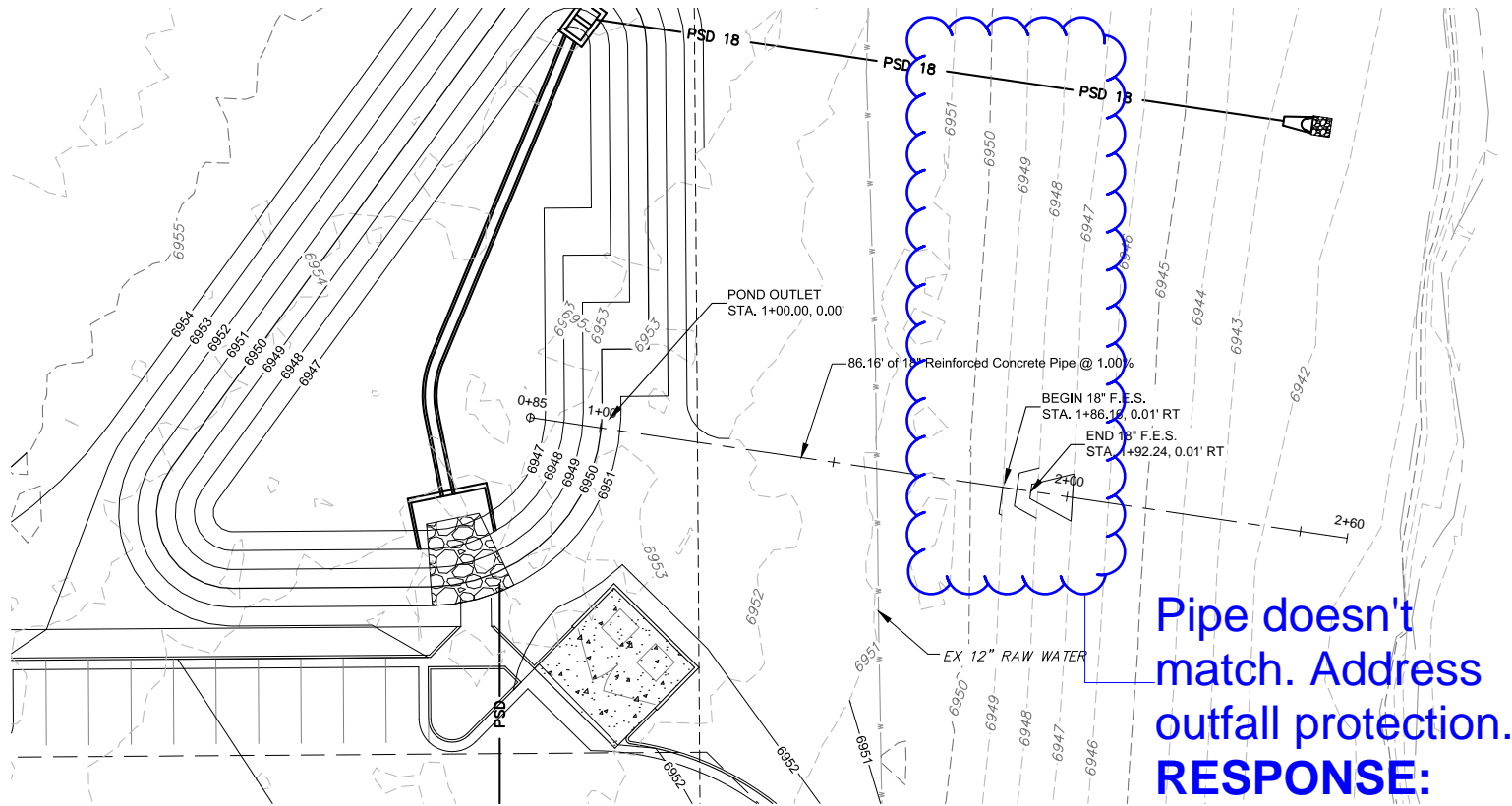
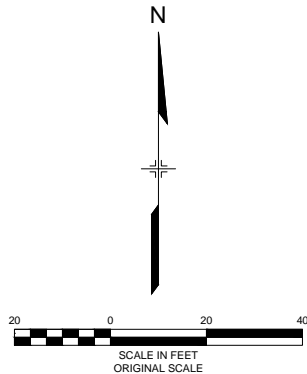
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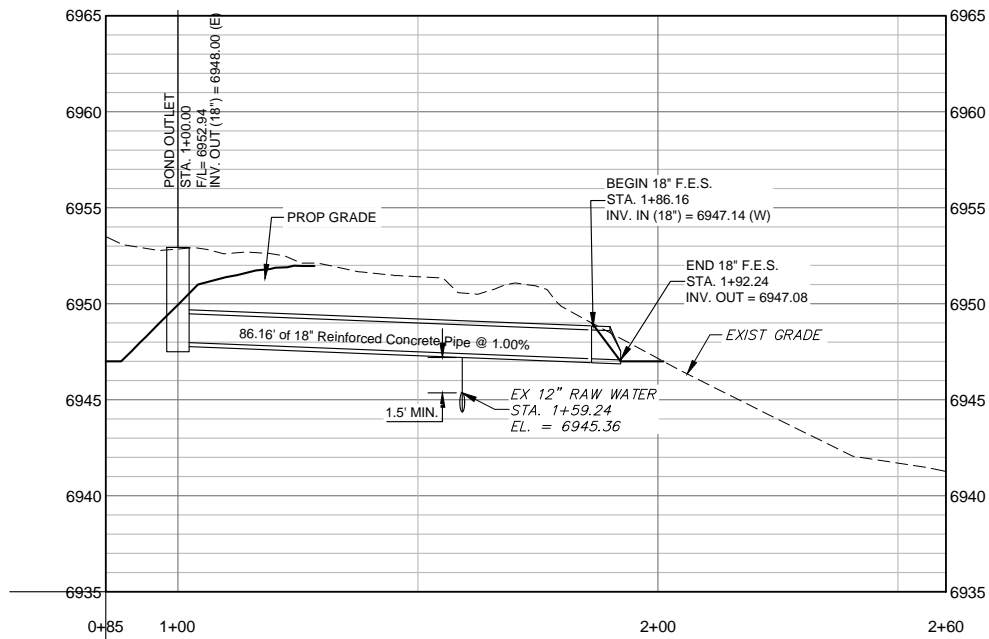


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SITE WATER MAIN PLAN			
DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
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Pipe doesn't match. Address outfall protection.
RESPONSE:
PIPE UPDATED & PROTECTION ADDRESSED



REFERENCE DRAWINGS			
X-995-MDG22X34			
X-995-PR-UTIL			
X-995-EX-BASE			
X-995-EX-MAP			
X-995-PR-BASE			
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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

STORMWATER PLAN & PROFILE

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ		
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BMP LEGEND

- CWA

CONCRETE WASHOUT AREA
- DD

DIVERSION DITCH
- ECB

EROSION CONTROL BLANKET
- SB

SEDIMENT BASIN
- SCL

SEDIMENT CONTROL LOG
- ST

SEDIMENT TRAP
- SM

SEEDING AND MULCHING
- SF

SILT FENCE
- SSA

STABILIZED STAGING AREA
- SR

SURFACE ROUGHING
- VTC

VEHICLE TRACKING CONTROL
- RS

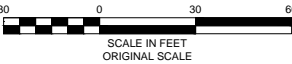
ROCK SOCK
- CF

CONSTRUCTION FENCE
- LOC

LIMITS OF CONSTRUCTION
- EXISTING 1' CONTOURS
- EXISTING 5' CONTOURS
- PROPOSED 1' CONTOURS
- PROPOSED 5' CONTOURS

NOTES:

1. SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
2. SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
3. SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
4. INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.



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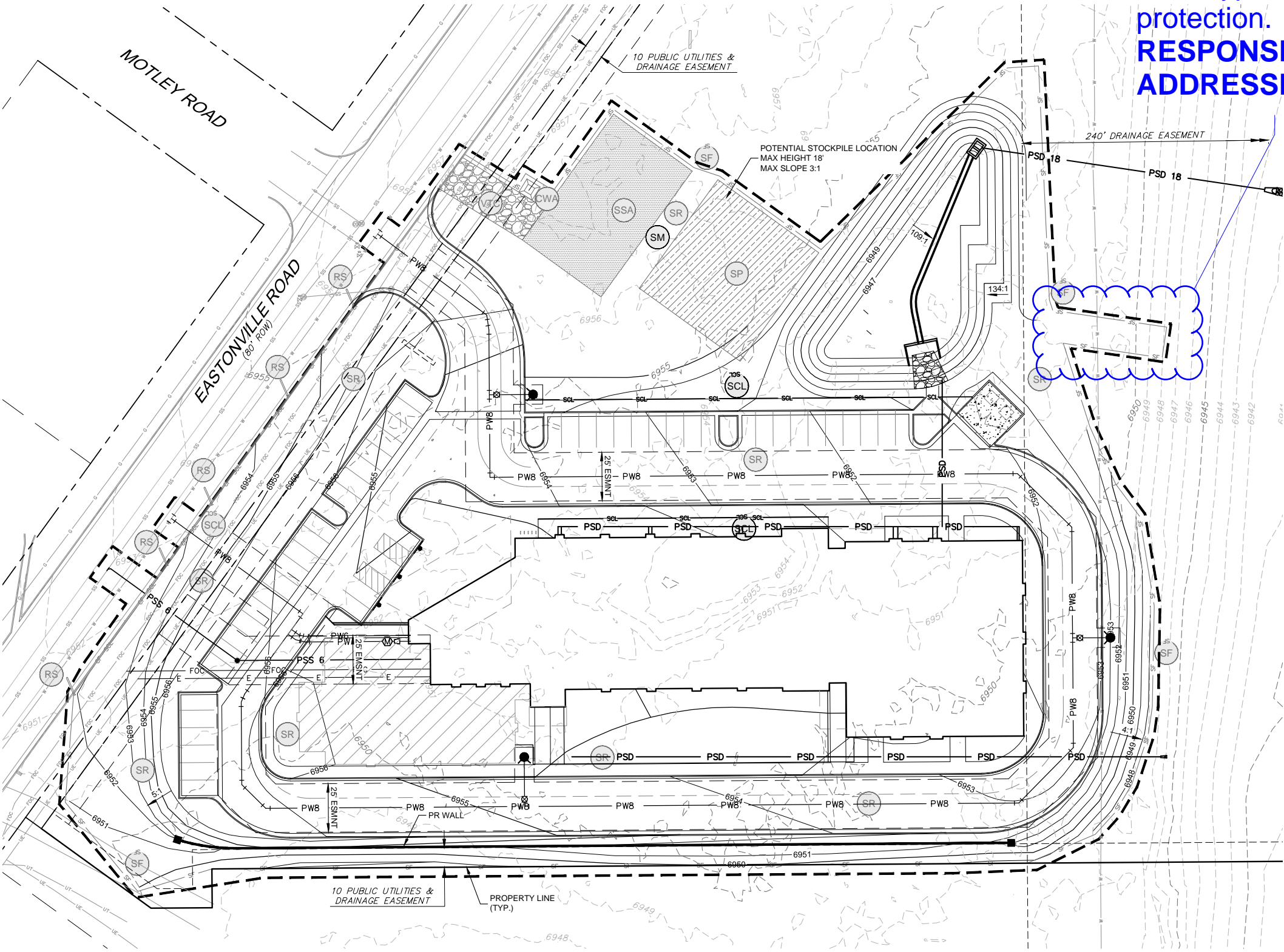


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
INITIAL EROSION CONTROL PLAN SITE PREP, DEMO, AND GRADING			
DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
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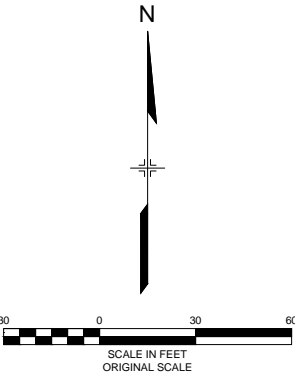


If this is a spillway
show type of erosion
protection.
**RESPONSE:
ADDRESSED**



- 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.
 - 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.



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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
FINAL EROSION CONTROL PLAN PERMANENT SITE STABILIZATION			
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EC-4 Mulching (MU)

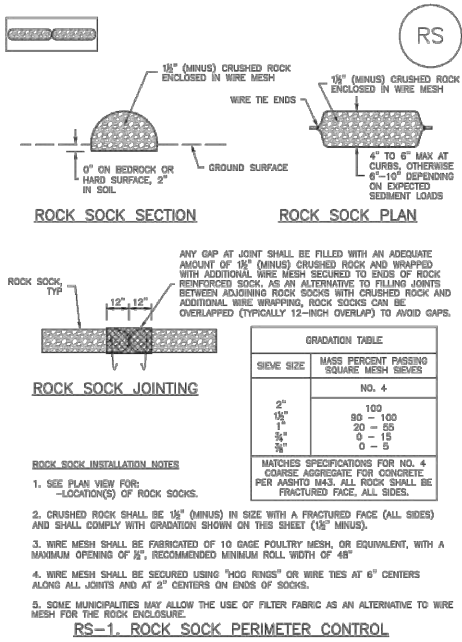
- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping 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 hydrosowing. 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 placed 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 June 2012
Urban Storm Drainage Criteria Manual Volume 3

SC-5 Rock Sock (RS)



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

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 1/2 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.

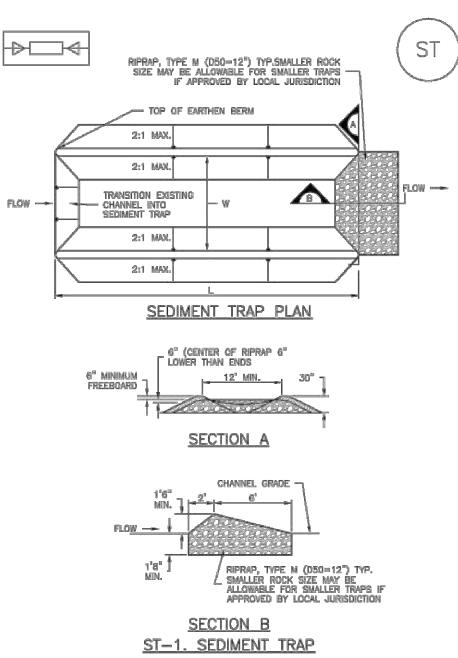
(DETAILS ADAPTED FROM TOWN OF PUYALLUP, COLORADO AND CITY OF AUSTIN, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. USFCD NEITHER ENDORSES 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.

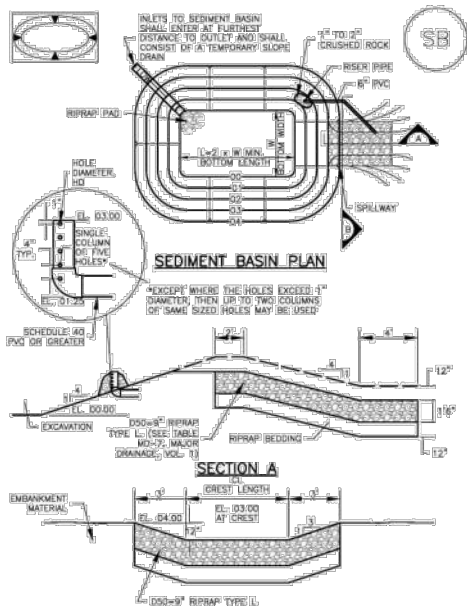
November 2010 Urban Drainage and Flood Control District RS-3
Urban Storm Drainage Criteria Manual Volume 3

SC-8 Sediment Trap (ST)



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

Sediment Basin (SB) SC-7



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

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 (ft)	Spillway Crest Length (ft), (ft)	Hole Diameter (ft), (ft)
1	12 1/2	2	1 1/4
2	21	3	1 3/4
3	28	4	2
4	33 1/2	5	2 1/4
5	38 1/2	6	2 1/2
6	43	7	2 3/4
7	47 1/2	8	3
8	51	11	3 1/4
9	55	12	3 1/2
10	58 1/2	13	3 3/4
11	61	14	4
12	64	15	4 1/4
13	67 1/2	16	4 1/2
14	70 1/2	17	4 3/4
15	73 1/2	18	5

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 COLLARS 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 BASINS 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 SCH 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 August 2013
Urban Storm Drainage Criteria Manual Volume 3

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 (I.E., 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 BOULDER COUNTY, COLORADO)

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.

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

Sediment Trap (ST) SC-8

SEDIMENT TRAP INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADE 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.
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- 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 1/2 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 BOULDER COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

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

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
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Sediment Control Log (SCL)

SC-2

SCL

SEDIMENT CONTROL LOG JOINTS

SCL-1. SEDIMENT CONTROL LOG

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

Sediment Control Log (SCL)

SC-2

SCL-2

SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB

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

Sediment Control Log (SCL)

SC-2

SCL-3

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

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

Concrete Washout Area (CWA)

MM-1

CWA

CWA-1. CONCRETE WASHOUT AREA

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

Concrete Washout Area (CWA)

MM-1

CWA

CWA-1. CONCRETE WASHOUT AREA

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

Silt Fence (SF)

SC-1

SF

SF-1. SILT FENCE

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

Silt Fence (SF)

SC-1

SF

SF-1. SILT FENCE

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

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MATRIX DESIGN GROUP, INC.

PROJECT No. 18.995.001

DESIGNED BY: ACR

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CHECKED BY: DRK

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HORIZ

VERT.

DATE ISSUED: MAY 2018

SHEET 15 OF 18

DRAWING No. ECDDT03

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

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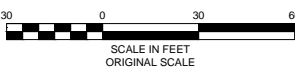
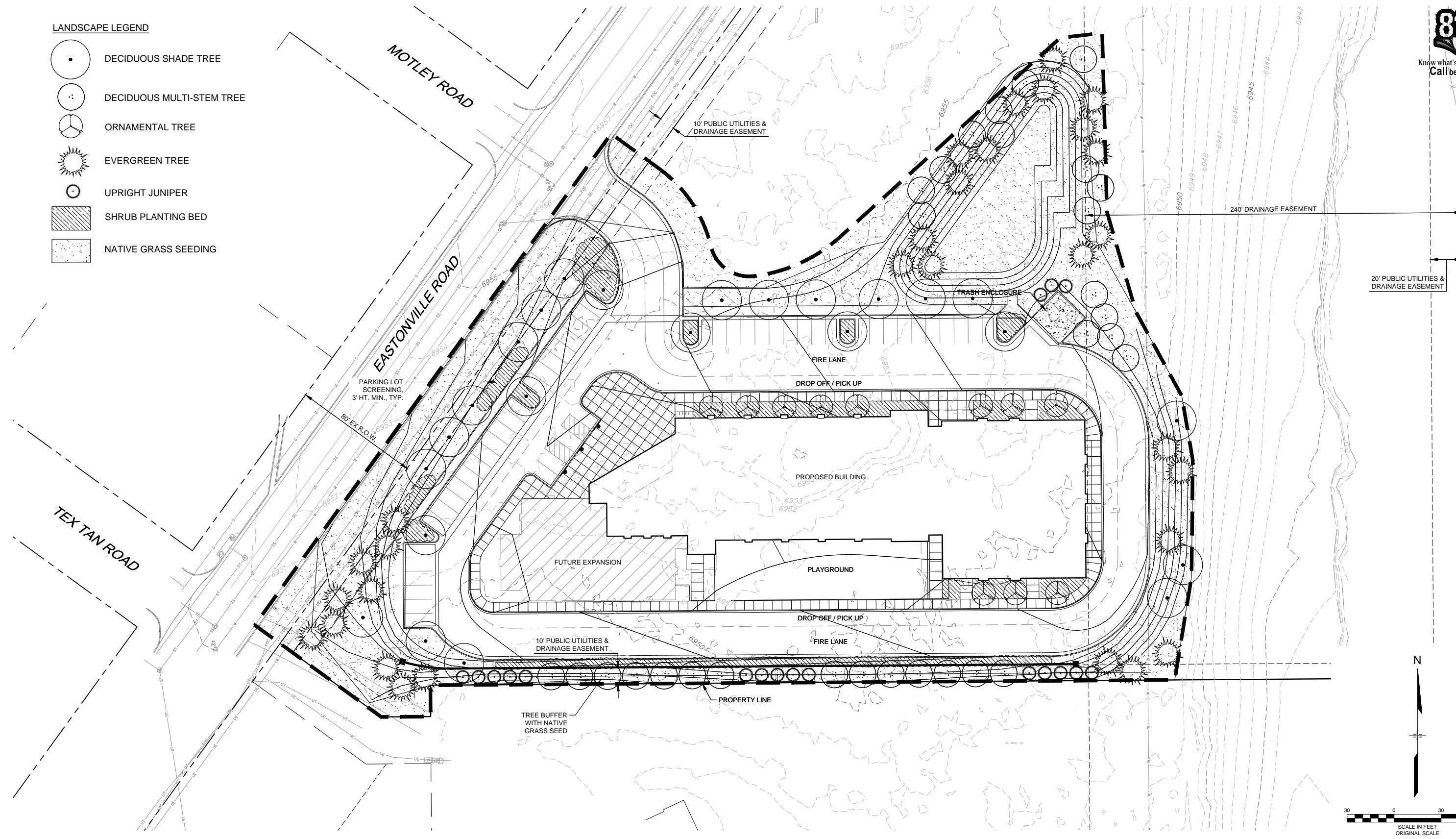
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LIBERTY TREE ACADEMY				
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS				
EROSION CONTROL DETAILS				
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CHECKED BY:	DRK	VERT.	SHEET	16 OF 18
				DRAWING No. ECDDT04



LANDSCAPE LEGEND

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



REFERENCE DRAWINGS			
X-995-MDG22X34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-GRAD X-995-PR-LANDSCAPE			
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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

LANDSCAPE PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	MAY 2018	DRAWING No.
CHECKED BY:	DRK	HORIZ	SHEET	18 OF 18	LS01

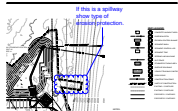
Markup Summary

dsdrice (8)



Subject: Callout
Page Label: [1] TS01 TS01
Author: dsdrice
Date: 6/14/2018 11:01:37 AM
Color: ■

Provide



Subject: Cloud+
Page Label: [11] EC02 EC02
Author: dsdrice
Date: 6/14/2018 11:03:14 AM
Color: ■

If this is a spillway show type of erosion protection.



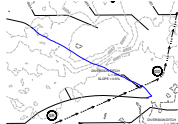
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Page Label: [9] SD01 SD01
Author: dsdrice
Date: 6/14/2018 11:31:39 AM
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Pipe doesn't match. Address outfall protection.



Subject: Cloud+
Page Label: [1] TS01 TS01
Author: dsdrice
Date: 6/14/2018 2:59:34 PM
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Delete/revise with final.



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:01 PM
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initial contours?



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:10 PM
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initial contours?



Subject: Pen
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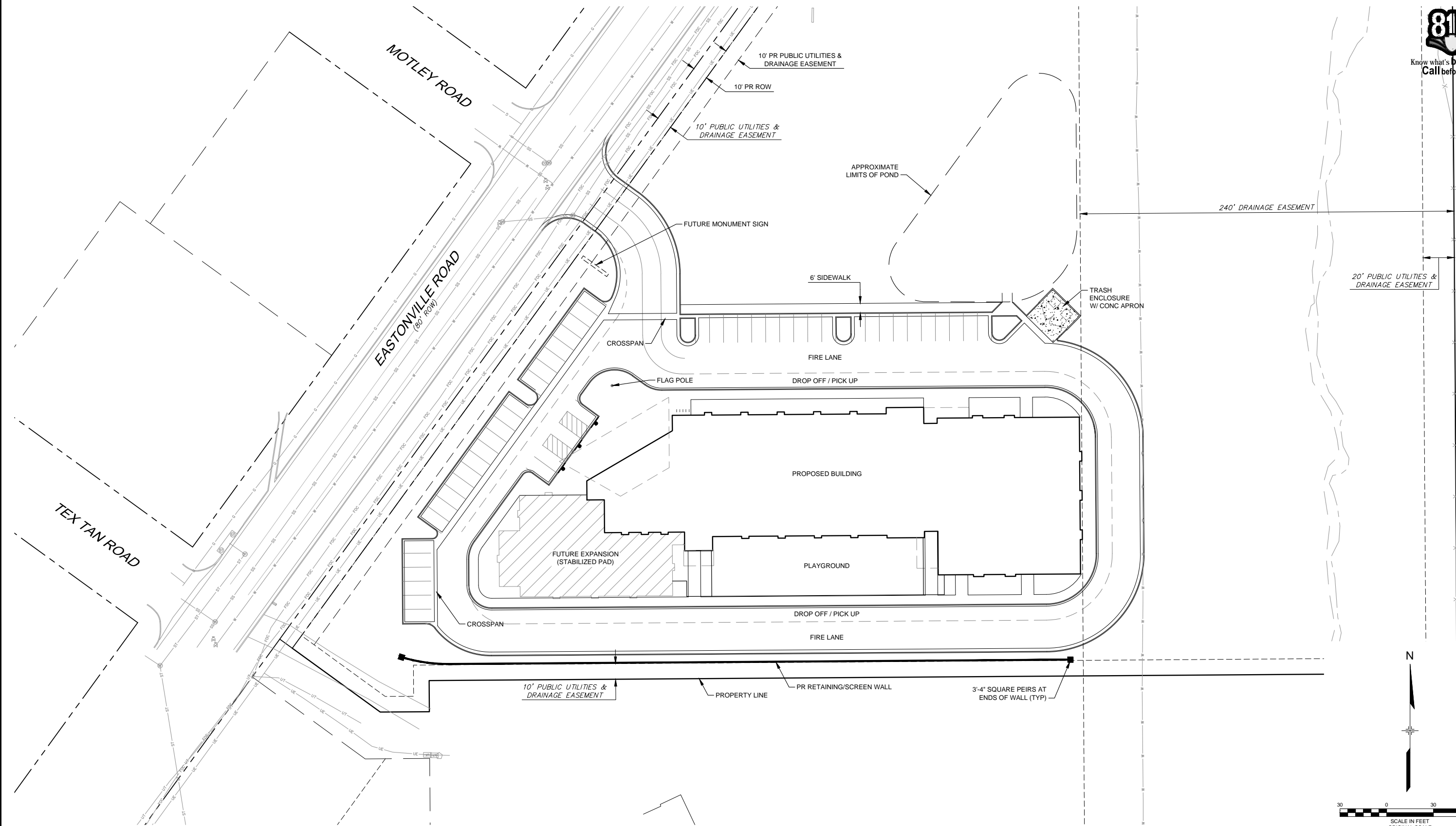
GENERAL CONSTRUCTION PLAN NOTES:

- 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.

REFERENCE DRAWINGS X-995-MDG22x34						SHEET KEY			SEAL <div>PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</div>	LIBERTY TREE ACADEMY				
										TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS				
										GENERAL NOTES				
										FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001				
										DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.	
			No.	DATE	DESCRIPTION					BY				
			REVISIONS											
			COMPUTER FILE MANAGEMENT											
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										TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
										LEGEND & ABBREVIATIONS			
	No.	DATE	DESCRIPTION	BY						DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
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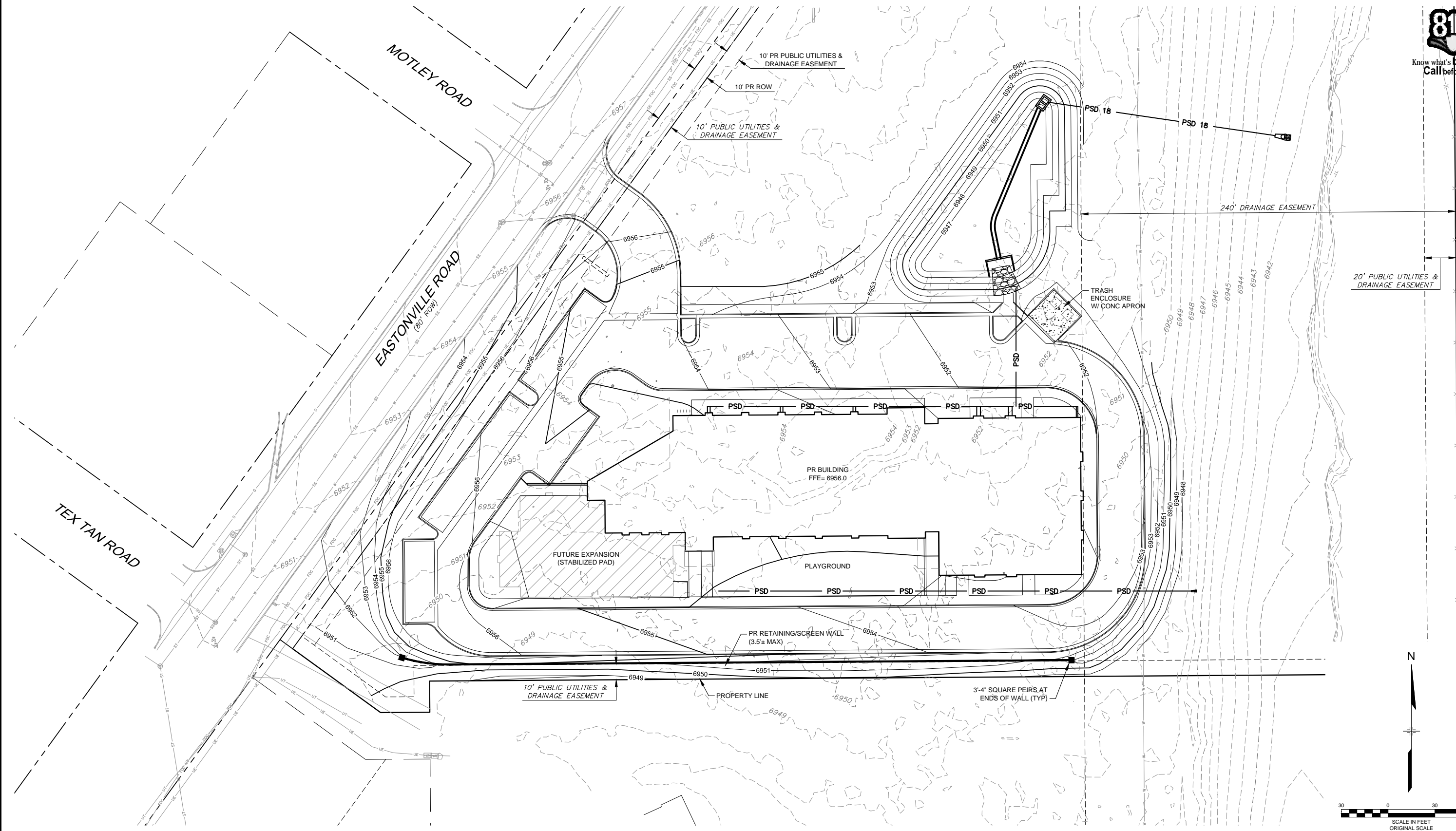
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001	

LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SITE PLAN			
DESIGNED BY:	ACR	SCALE	DATE ISSUED:
DRAWN BY:	ACR	HORIZ	MAY 2018
CHECKED BY:	DRK	VERT.	SHEET 4 OF 18
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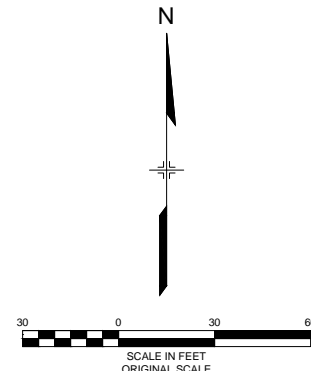
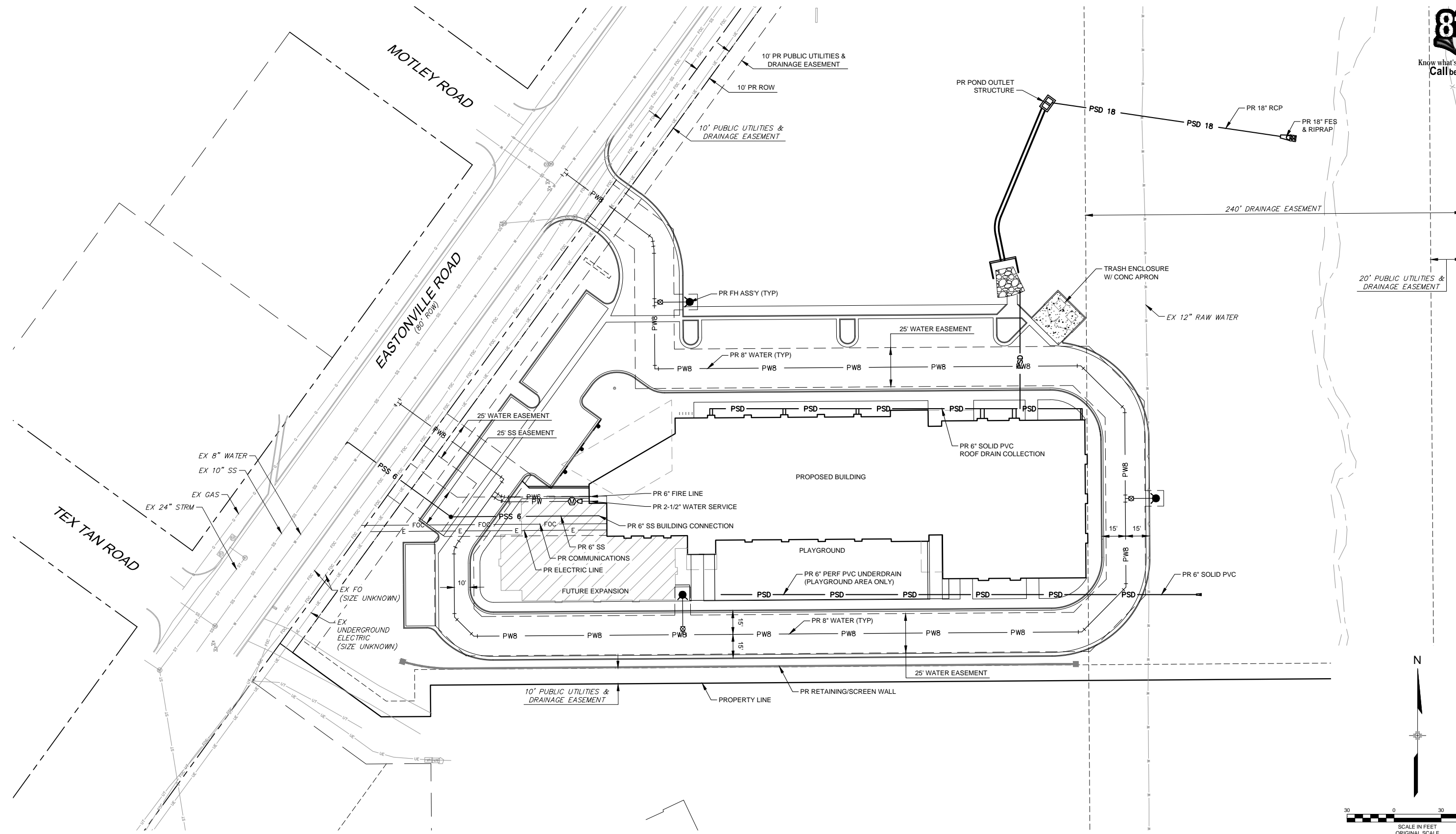


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
GRADING PLAN			
DESIGNED BY:	ACR	SCALE	DATE ISSUED:
DRAWN BY:	ACR	HORIZ	MAY 2018
CHECKED BY:	DRK	VERT.	SHEET
6 OF 18			DRAWING No. GR01



Know what's below.
Call before you dig.



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X-995-MDG22X34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-UTIL			
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SHEET KEY	

PREPARED BY:

Matrix
DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

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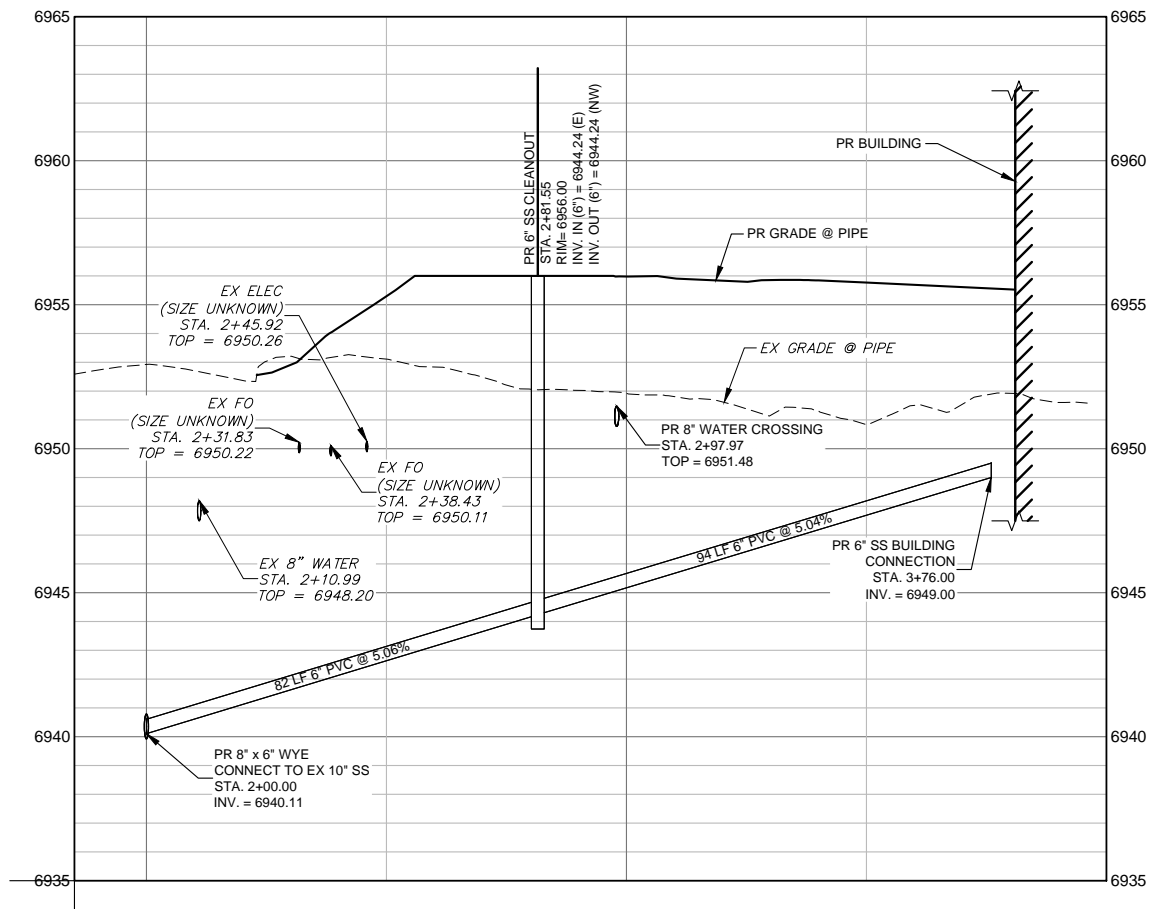
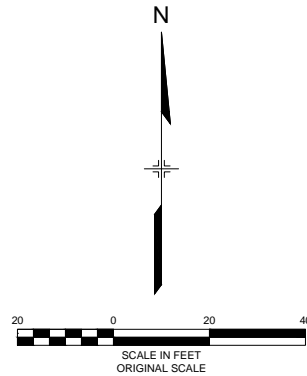
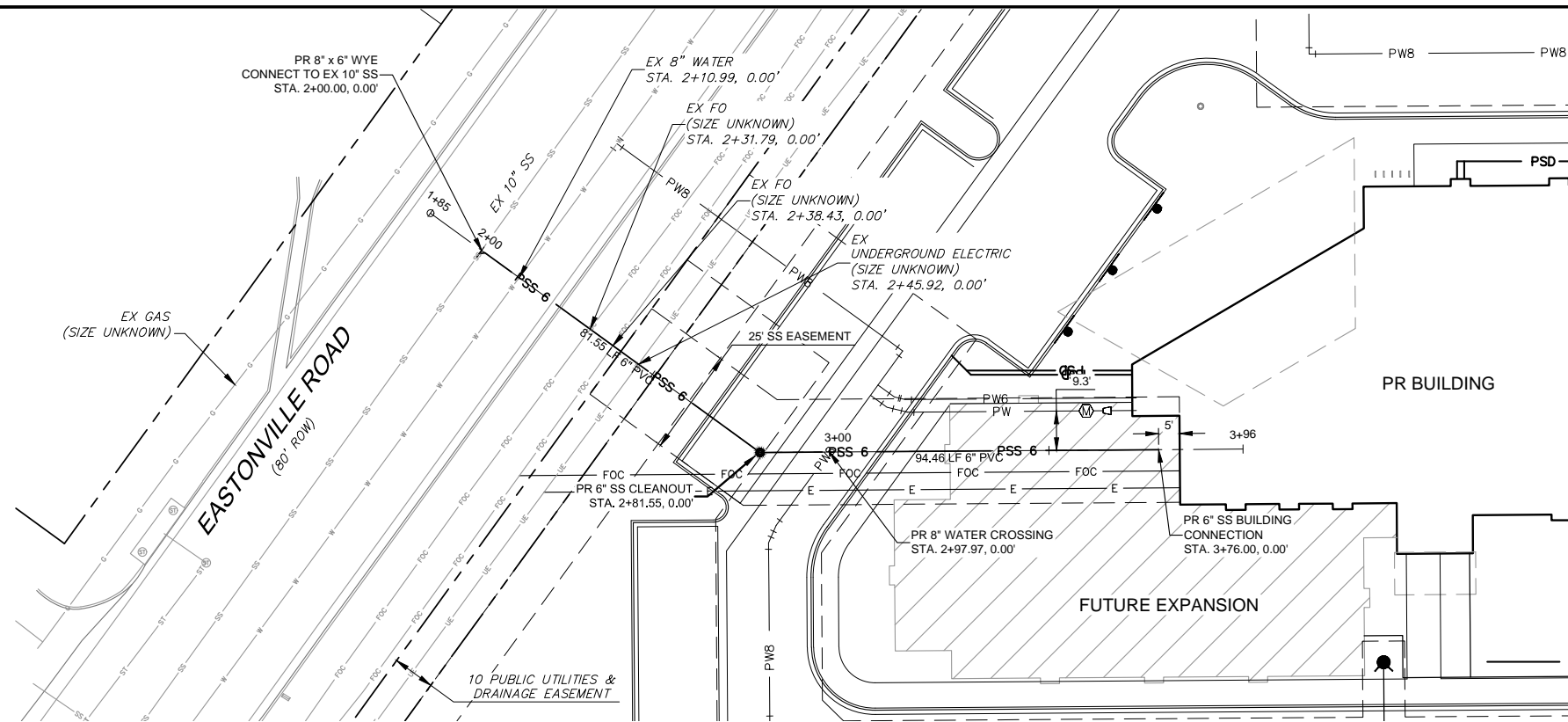
FOR AND ON BEHALF OF
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PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

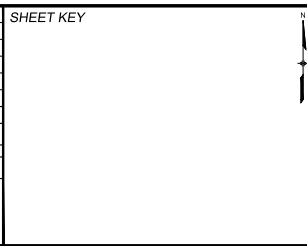
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

OVERALL UTILITY PLAN

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
CHECKED BY: DRK	HORIZ	SHEET 7 OF 18	UT01



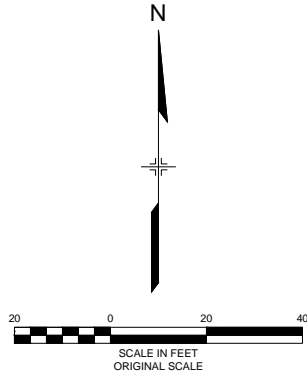
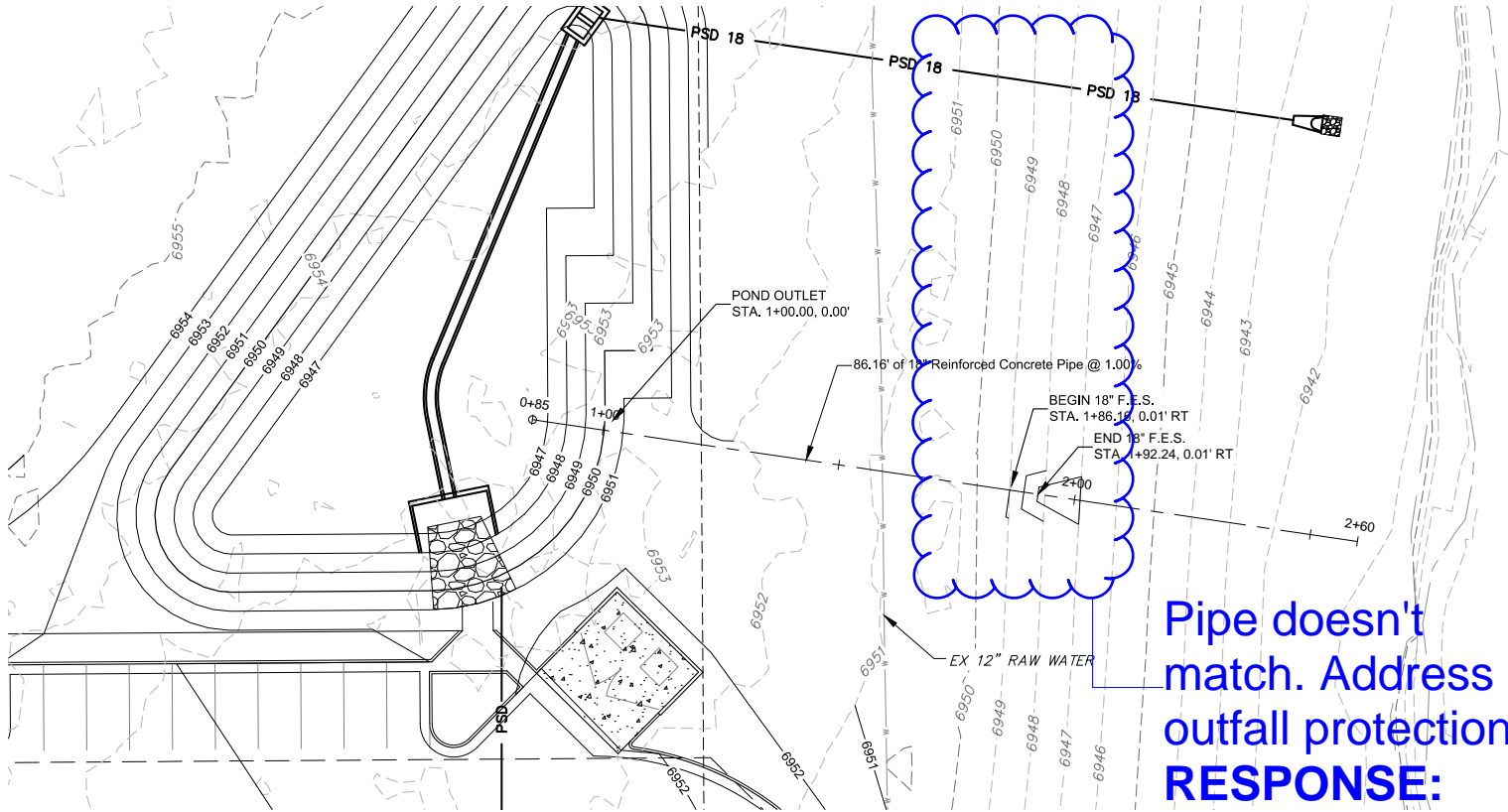
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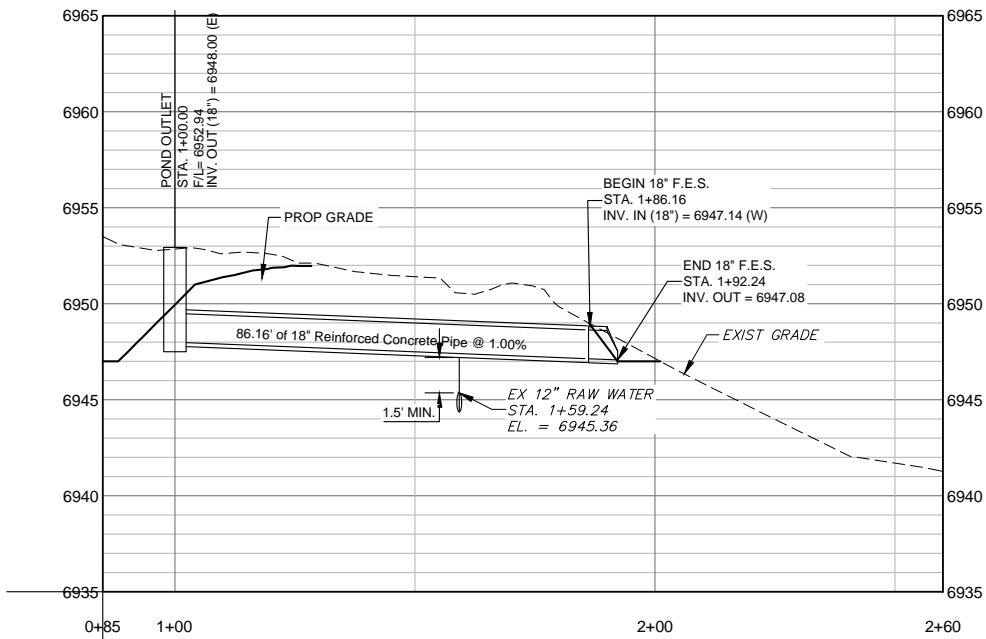
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
SANITARY SEWER PLAN & PROFILE			
DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ		
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Pipe doesn't match. Address outfall protection.
RESPONSE:
PIPE UPDATED & PROTECTION ADDRESSED



REFERENCE DRAWINGS			
X-995-MDG22X34			
X-995-PR-UTIL			
X-995-EX-BASE			
X-995-EX-MAP			
X-995-PR-BASE			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
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CTB FILE: ----			
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SHEET KEY

PREPARED BY:

AN EMPLOYEE-OWNED COMPANY

SEAL

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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

STORMWATER PLAN & PROFILE

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ		
CHECKED BY: DRK	VERT.	SHEET 10 OF 18	SD01



BMP LEGEND

- CWA

CONCRETE WASHOUT AREA
- DD

DIVERSION DITCH
- ECB

EROSION CONTROL BLANKET
- SB

SEDIMENT BASIN
- SCL

SEDIMENT CONTROL LOG
- ST

SEDIMENT TRAP
- SM

SEEDING AND MULCHING
- SF

SILT FENCE
- SSA

STABILIZED STAGING AREA
- SR

SURFACE ROUGHING
- VTC

VEHICLE TRACKING CONTROL
- RS

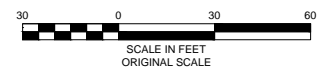
ROCK SOCK
- CF

CONSTRUCTION FENCE
- LOC

LIMITS OF CONSTRUCTION
- EXISTING 1' CONTOURS
- EXISTING 5' CONTOURS
- PROPOSED 1' CONTOURS
- PROPOSED 5' CONTOURS

NOTES:

1. SUGGESTED VTC LOCATIONS ARE SHOWN ON THE PLAN. THE EXACT LOCATIONS MAY VARY DUE TO PHASING, BUT MUST BE PROVIDED AT ALL POINTS OF ACCESS.
2. SUGGESTED STOCKPILE LOCATIONS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE STOCKPILE MANAGEMENT DETAIL FOR ADDITIONAL INFORMATION.
3. SUGGESTED CONCRETE WASHOUT AND STABILIZED STAGING AREAS ARE SHOWN ON PLAN. EXACT LOCATIONS MAY VARY WITHIN THE PROJECT LIMITS. SEE THE CONCRETE WASHOUT AND STABILIZED STAGING AREA DETAIL FOR ADDITIONAL INFORMATION.
4. INLET PROTECTION, CURB SOCKS, AND PERIMETER CONTROL TO BE INSTALLED PRIOR TO DEMOLITION. SILT FENCE MAY BE USED AS PERIMETER CONTROL IN LANDSCAPED AREAS. ROCK SOCKS AND CONSTRUCTION FENCING SHOULD BE USED AS PERIMETER CONTROL ON IMPERVIOUS SURFACES.



REFERENCE DRAWINGS			
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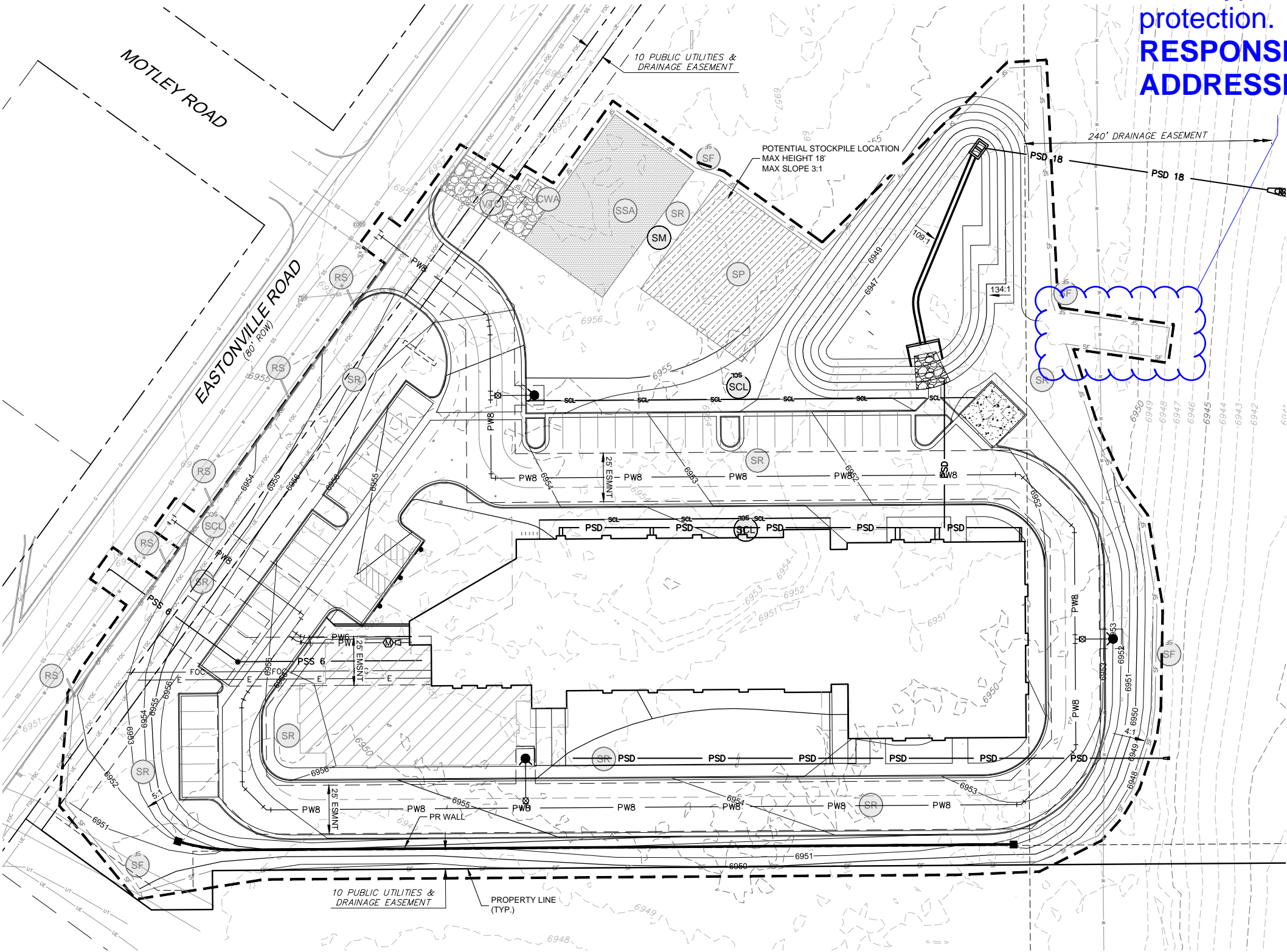


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY CONSTRUCTION DOCUMENTS			
INITIAL EROSION CONTROL PLAN SITE PREP, DEMO, AND GRADING			
DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
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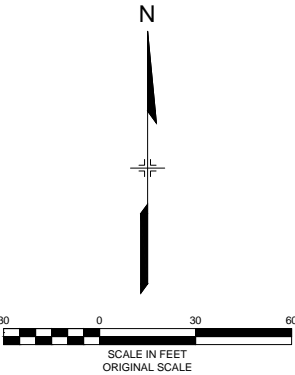


If this is a spillway
show type of erosion
protection.
**RESPONSE:
ADDRESSED**



- 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.
 - 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.



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

Vehicle Tracking Control (VTC)

SM-4

VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

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

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

Vehicle Tracking Control (VTC)

SM-4

VTC-4. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

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

Earth Dikes and Drainage Swales (ED/DS)

EC-10

ED-1. COMPACTED UNLINED EARTH DIKE FORMED BY BERM

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

Earth Dikes and Drainage Swales (ED/DS)

EC-10

DS-4. SYNTHETIC LINED SWALE

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

Earth Dikes and Drainage Swales (ED/DS)

EC-10

DS-5. RIPRAP LINED SWALE

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

Mulching (MU)

EC-4

MU-1. MULCHING

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



EC-4 Mulching (MU)

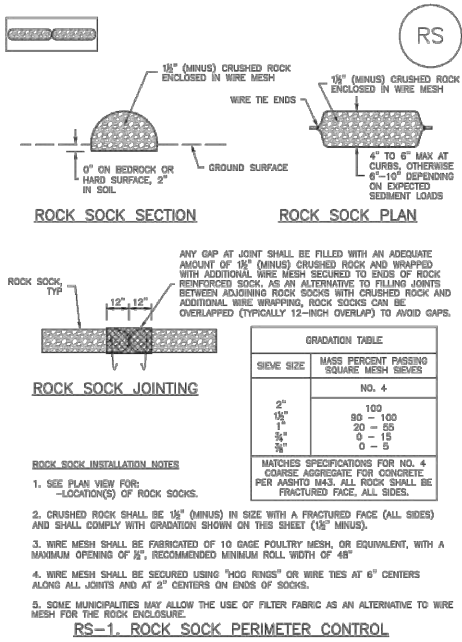
- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping 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 hydrosowing. 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 placed 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 June 2012
Urban Storm Drainage Criteria Manual Volume 3

SC-5 Rock Sock (RS)



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

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 1/2 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.

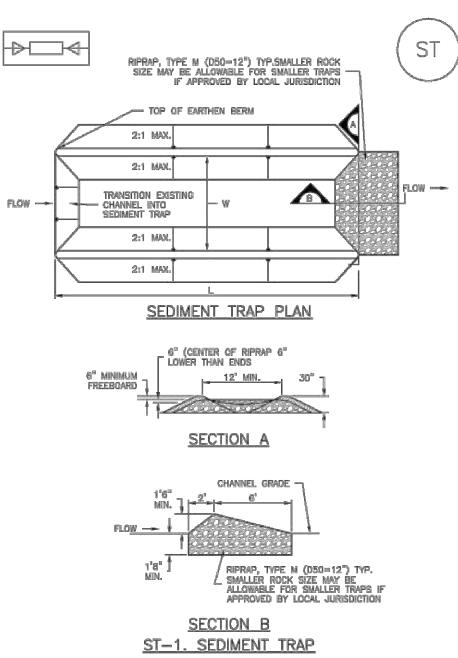
(DETAILS ADAPTED FROM TOWN OF PUEBLO, COLORADO AND CITY OF AUSTIN, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. USFCD NEITHER ENDORSES 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.

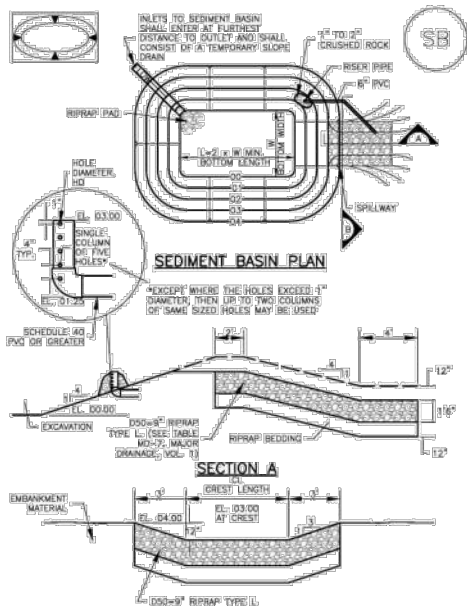
November 2010 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

SC-8 Sediment Trap (ST)



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

Sediment Basin (SB) SC-7



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

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

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 COLLARS 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 BASINS 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 SCH 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 August 2013
Urban Storm Drainage Criteria Manual Volume 3

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 (I.E., 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, NOT AVAILABLE IN AUTOCAD)

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.

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

Sediment Trap (ST) SC-8

SEDIMENT TRAP INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT 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.
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- 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 1/2 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 AUTOCAD)

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

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LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

FOR AND ON BEHALF OF
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PROJECT No. 18.995.001

DESIGNED BY: ACR	SCALE	DATE ISSUED: MAY 2018	DRAWING No.
DRAWN BY: ACR	HORIZ		
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Sediment Control Log (SCL)SC-2

SCL-1. SEDIMENT CONTROL LOG

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

SCL-2

Sediment Control Log (SCL)SC-2

SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB

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

Sediment Control Log (SCL)SC-2

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

November 2010Urban Drainage and Flood Control DistrictUrban Storm Drainage Criteria Manual Volume 3SC-5

Concrete Washout Area (CWA)MM-1

CWA-1. CONCRETE WASHOUT AREA

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

MM-1

Concrete Washout Area (CWA)

CWA-1. CONCRETE WASHOUT AREA

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

Silt Fence (SF)SC-1

SF-1. SILT FENCE

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

Silt Fence (SF)SC-1

SF-1. SILT FENCE

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

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MATRIX DESIGN GROUP, INC.

PROJECT No. 18.995.001

DESIGNED BY: ACR

DRAWN BY: ACR

CHECKED BY: DRK

SCALE

HORIZ

VERT.

DATE ISSUED: MAY 2018

DRAWING No. ECDDT03

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY

CONSTRUCTION DOCUMENTS

EROSION CONTROL DETAILS

PREPARED BY:

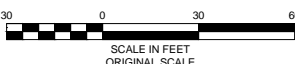
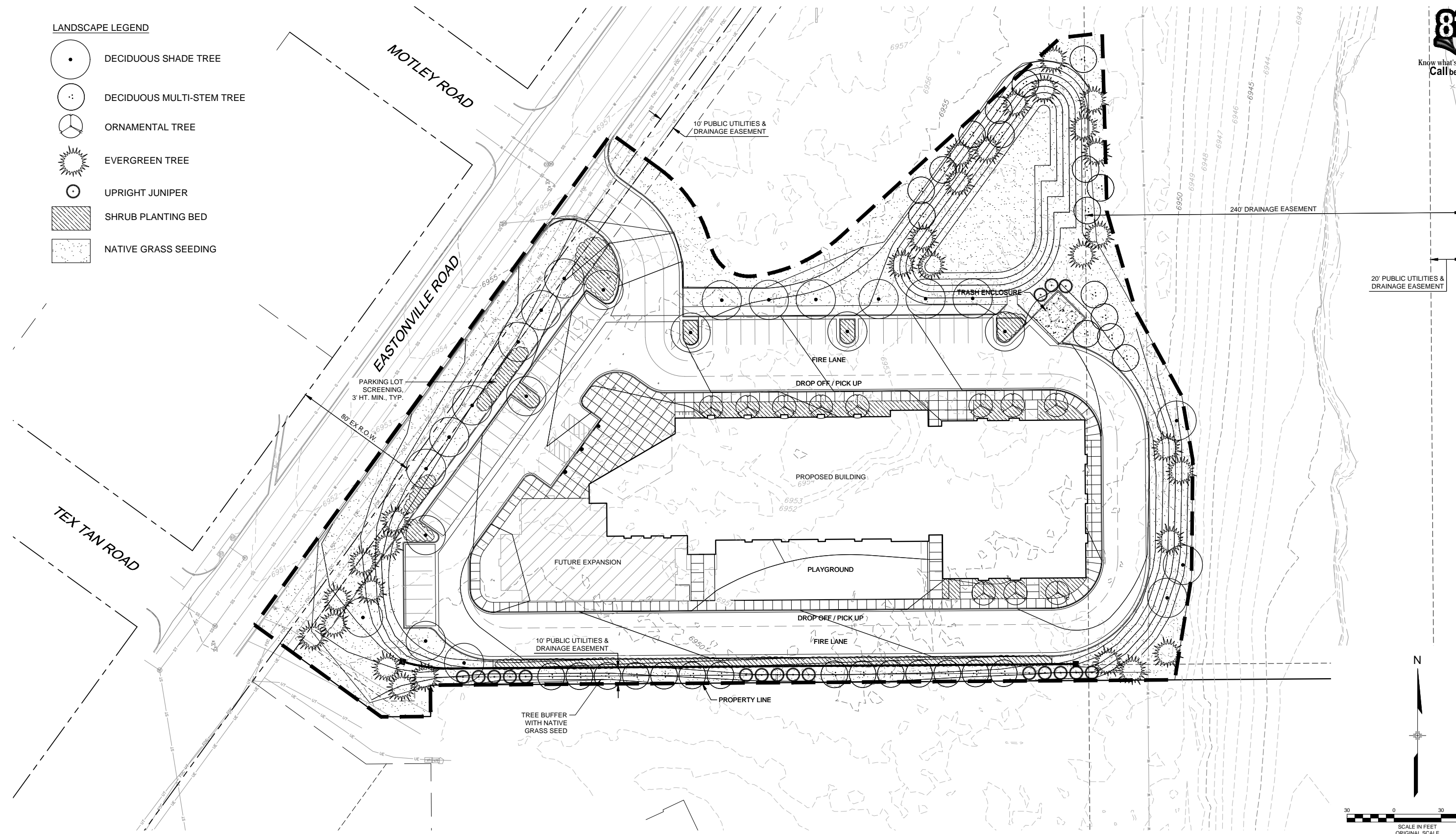
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LIBERTY TREE ACADEMY				
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				DRAWING No. ECDT04



LANDSCAPE LEGEND

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



REFERENCE DRAWINGS			
X-995-MDG22X34 X-995-PR-BASE X-995-EX-BASE X-995-EX-MAP X-995-PR-GRAD X-995-PR-LANDSCAPE			
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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

LANDSCAPE PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	MAY 2018	DRAWING No.
CHECKED BY:	DRK	HORIZ	SHEET	18 OF 18	LS01

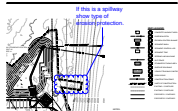
Markup Summary

dsdrice (8)



Subject: Callout
Page Label: [1] TS01 TS01
Author: dsdrice
Date: 6/14/2018 11:01:37 AM
Color: ■

Provide



Subject: Cloud+
Page Label: [11] EC02 EC02
Author: dsdrice
Date: 6/14/2018 11:03:14 AM
Color: ■

If this is a spillway show type of erosion protection.



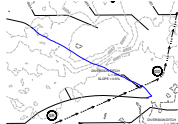
Subject: Cloud+
Page Label: [9] SD01 SD01
Author: dsdrice
Date: 6/14/2018 11:31:39 AM
Color: ■

Pipe doesn't match. Address outfall protection.



Subject: Cloud+
Page Label: [1] TS01 TS01
Author: dsdrice
Date: 6/14/2018 2:59:34 PM
Color: ■

Delete/revise with final.



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:01 PM
Color: ■

initial contours?



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:10 PM
Color: ■

initial contours?



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:10 PM
Color: ■

initial contours?



Subject: Pen
Page Label: [10] EC01 EC01
Author: dsdrice
Date: 6/15/2018 12:46:10 PM
Color: ■

initial contours?



LIBERTY TREE ACADEMY SITE DEVELOPMENT PLAN TOWN OF PEYTON, EL PASO COUNTY PRELIMINARY MAY 2018

INDEX OF SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TS01	TITLE SHEET	1
SP01	SITE PLAN	2
GR01	GRADING PLAN	3
UT01	OVERALL UTILITY PLAN	4
LS01	LANDSCAPE PLAN	5
SK2.0	PRESENTATION ELEVATIONS	6
SP1.0	ARCHITECTURAL SITE PLAN	7
SP1.1	SITE DETAILS	8
E1.1	ELECTRICAL SITE PLAN	9
E1.2	ELECTRICAL SITE PHOTOMETRIC CALCULATIONS	10
E1.3	EXTERIOR LIGHT FIXTURES CUT SHEETS	11

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:

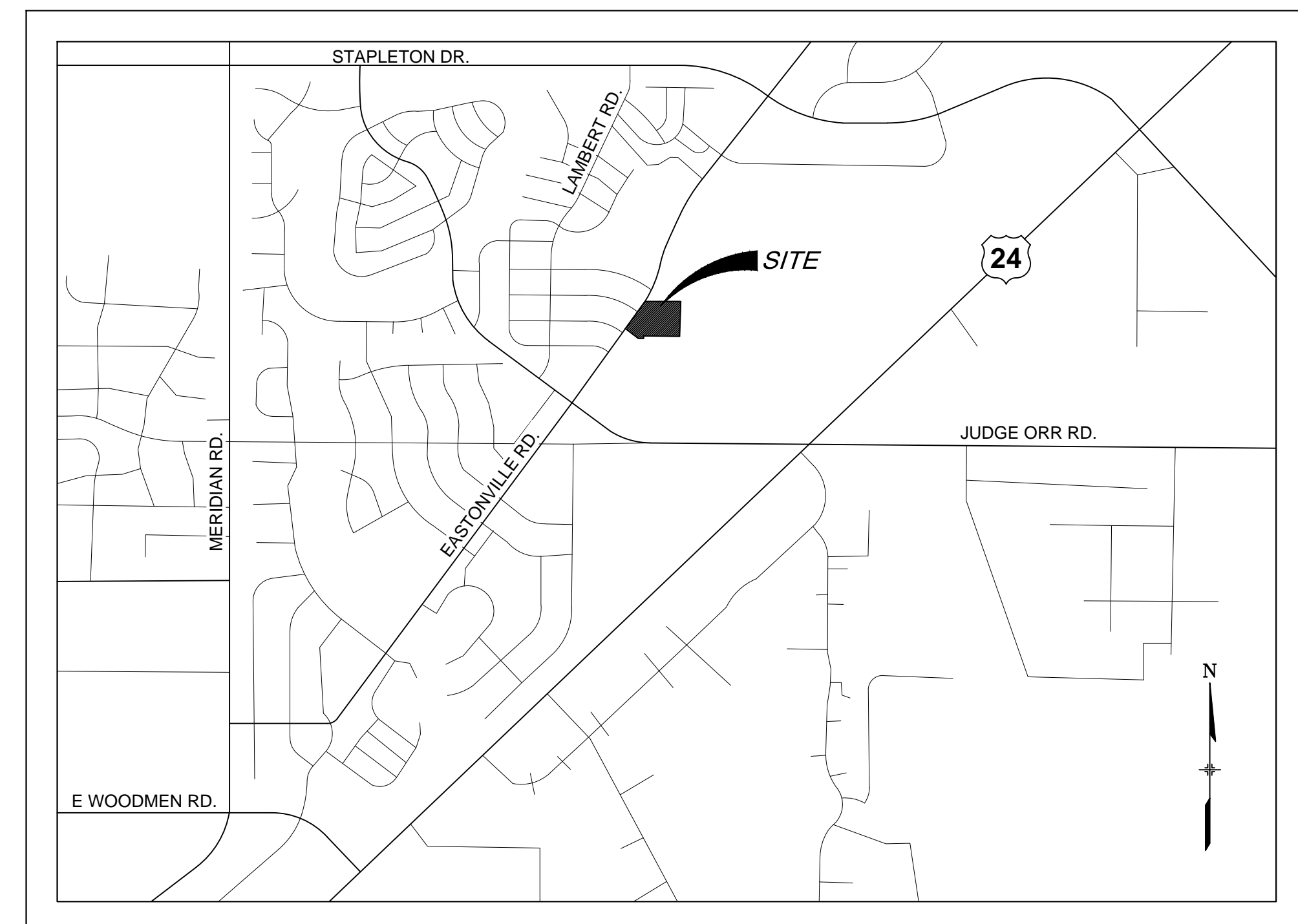
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:

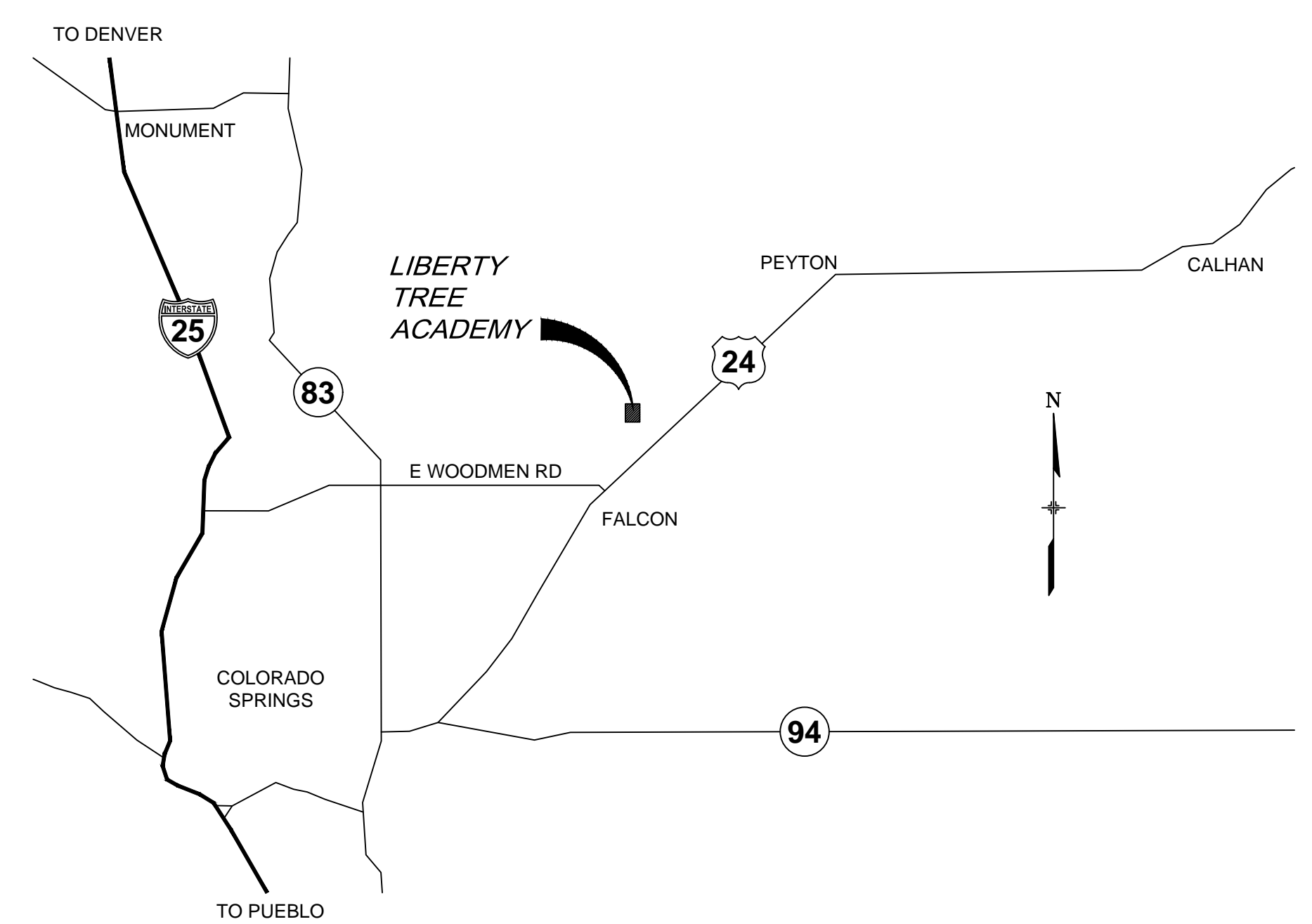
BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID BEARINGS OF THE COLORADO STATE PLANE CENTRAL ZONE, BASED ON THE EAST LINE OF LOT 1178 OF THE PLAT OF WOODMEN HILLS FILING NO. 10 AS RECORDED ON JULY 13, 2001 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 201098618, MONUMENTED 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.



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.

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

JENNIFER IRVINE, P.E.

DATE

OWNER/DEVELOPER'S STATEMENT:

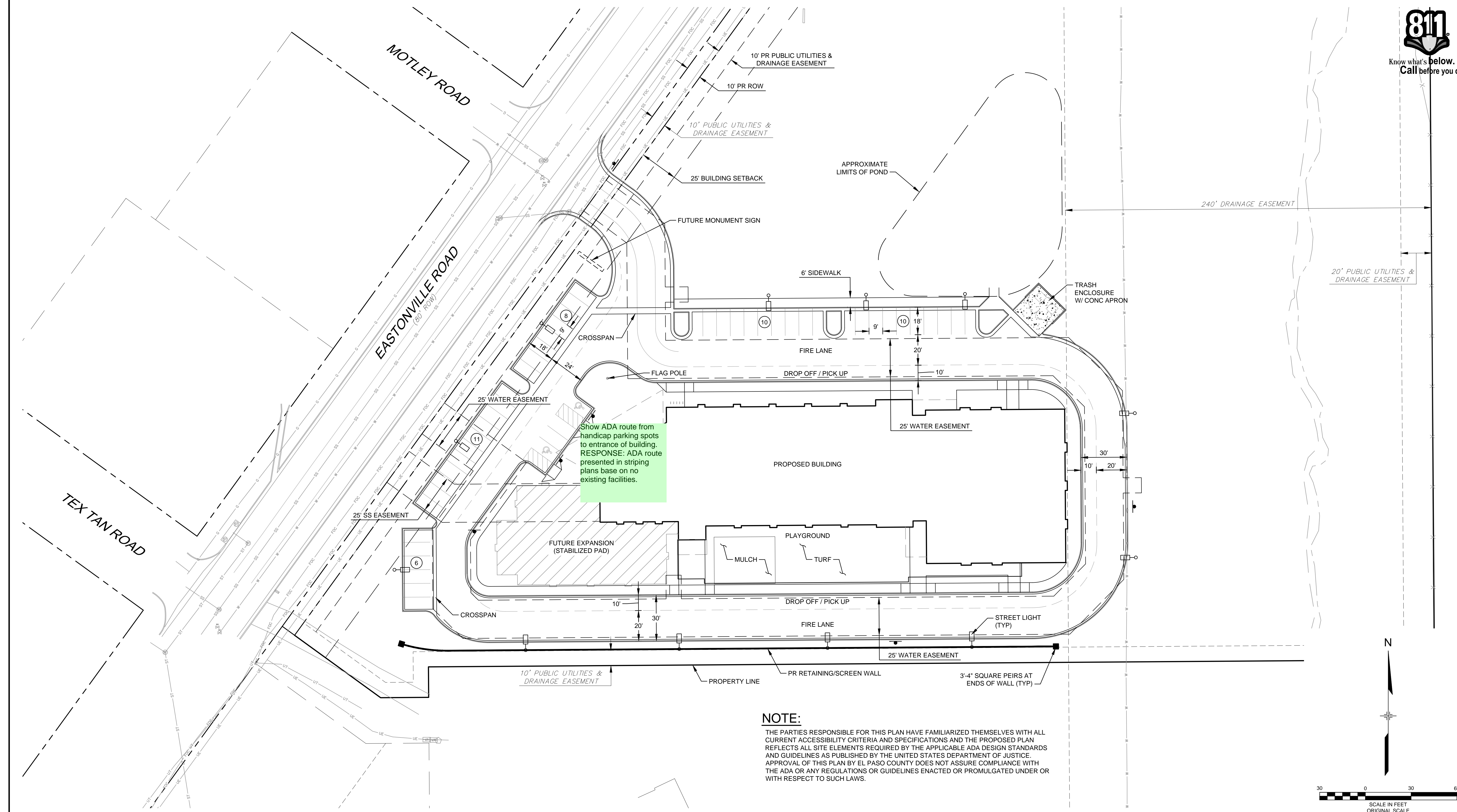
I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LIBERTY TREE ACADEMY COMPANY

DATE

REFERENCE DRAWINGS X-995-MD022x34						SHEET KEY 		PREPARED BY: 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 SITE DEVELOPMENT PLAN												
	TITLE SHEET												
	DESIGNED BY:	ACR	SCALE	DATE ISSUED:									
	DRAWN BY:	ACR	HORIZ.	MAY 2018									
CHECKED BY:	DRK	VERT.	SHEET 1 OF 11	DRAWING No. TS01									
COMPUTER FILE MANAGEMENT FILE NAME: R:118.995.001 (Liberty Tree Academy)\Dwg\Site Development Plan\TS01_SDP.dwg CTB FILE: --- PLOT DATE: May 3, 2018 4:35:42 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.													

Know what's below.
Call before you dig.

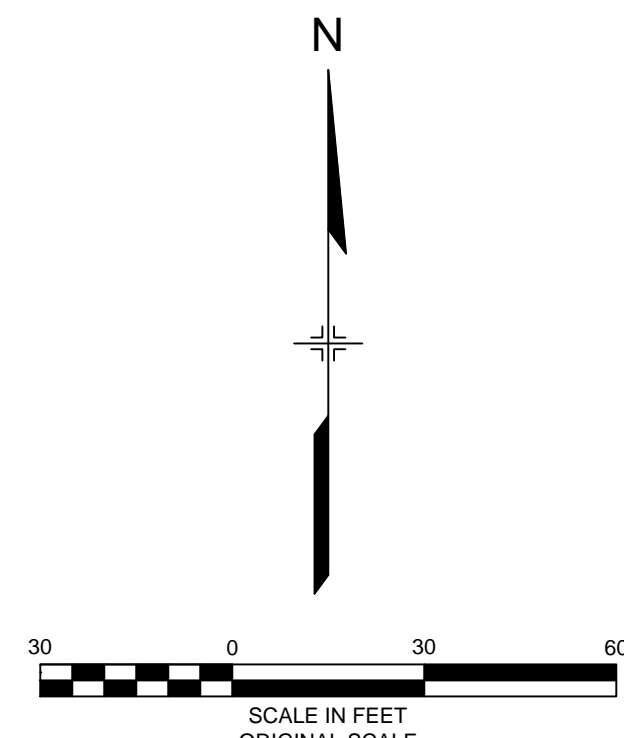
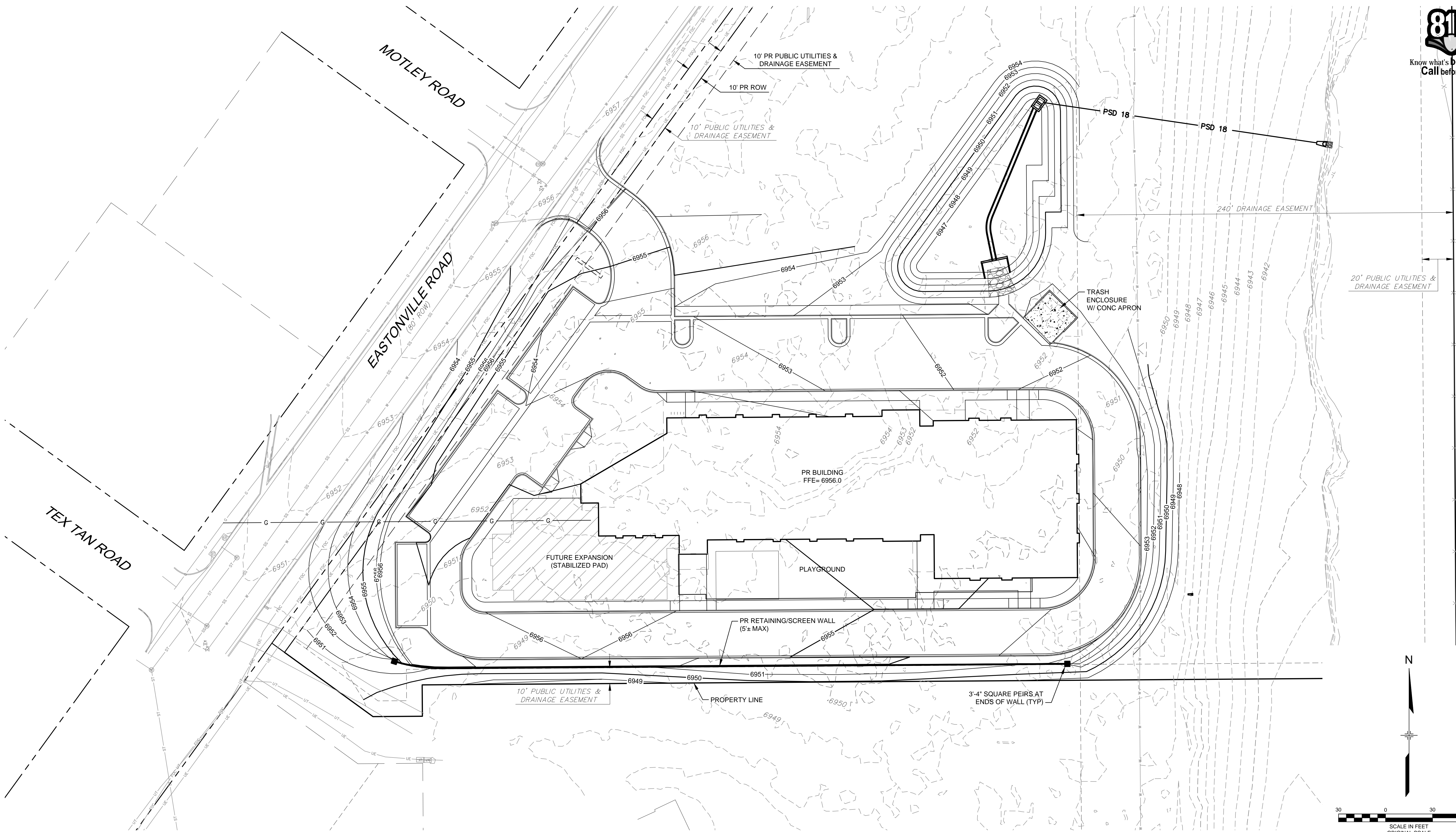


THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL 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.

[illegible]



Know what's below.
Call before you dig.



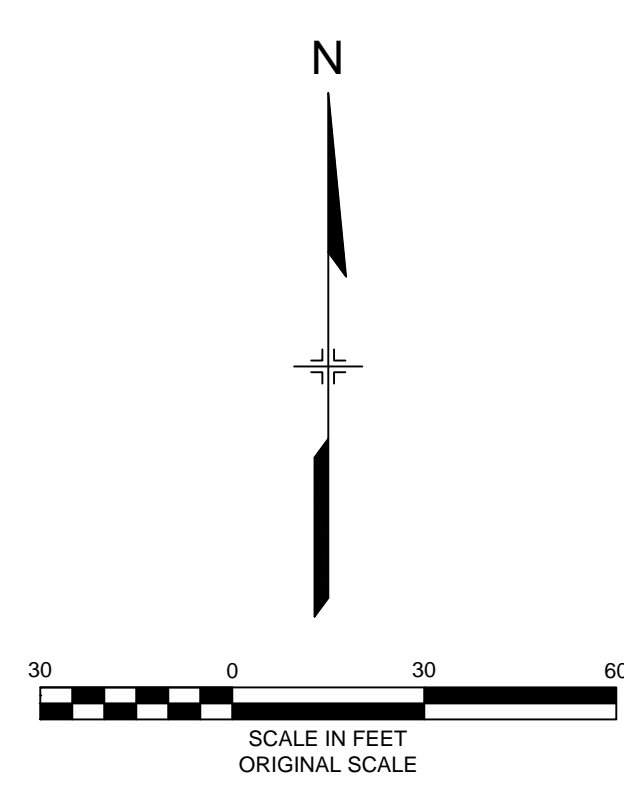
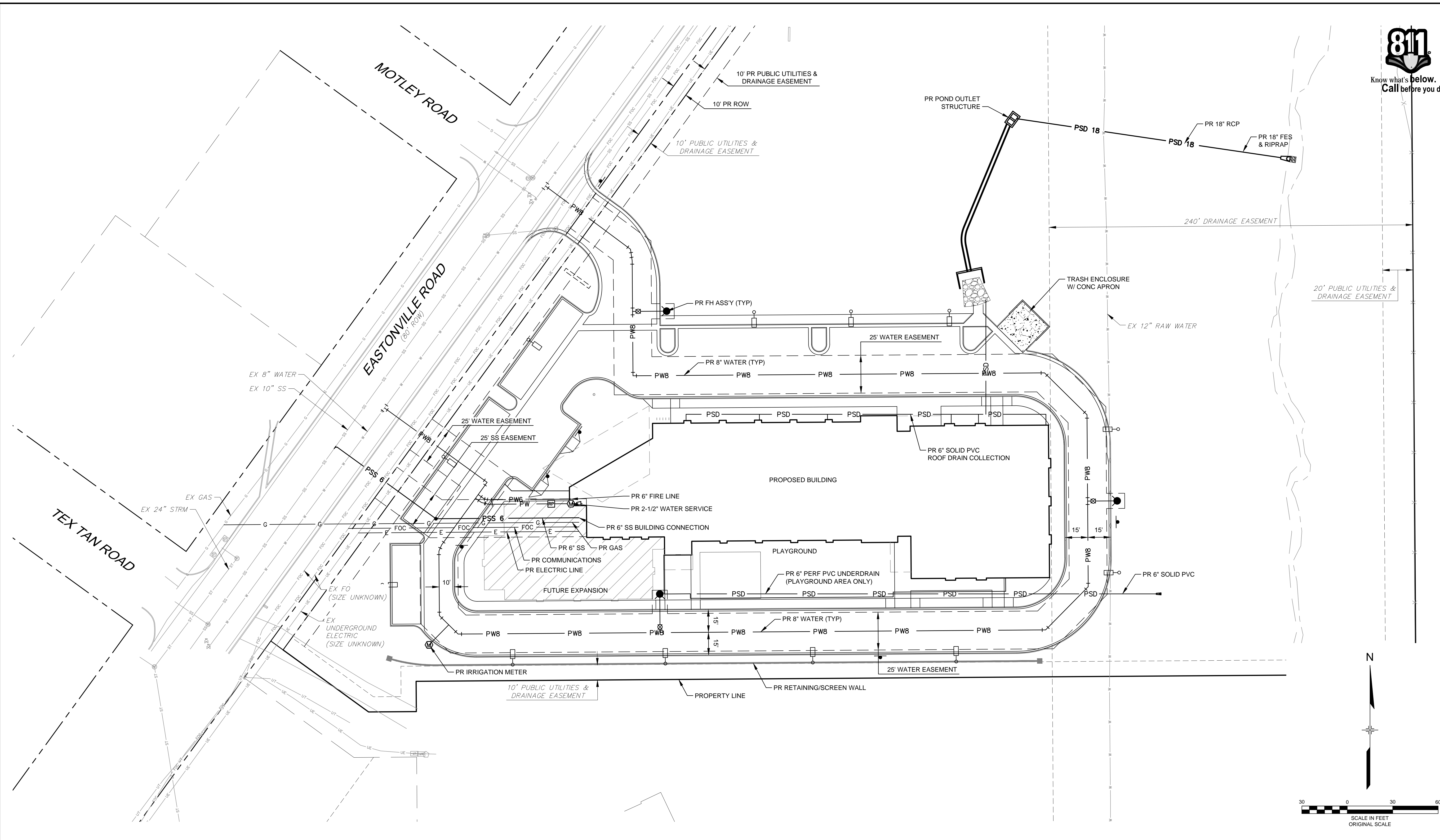
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X:995-MDQ22x34 X:995-PR-BASE X:995-EX-BASE X:995-EX-MAP X:995-PR-UTIL			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
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CTB FILE: ---			
PLOT DATE: 5/3/2018 4:35 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY	

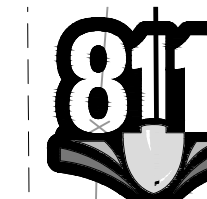


SEAL	
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 18.995.001	

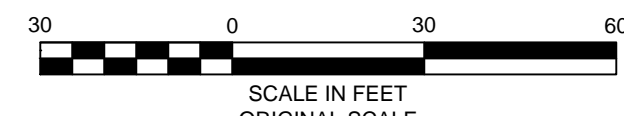
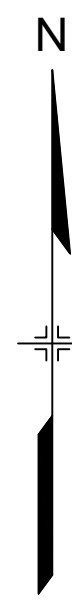
LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY SITE DEVELOPMENT PLAN			
GRADING PLAN			
DESIGNED BY:	ACR	SCALE	DATE ISSUED:
DRAWN BY:	ACR	HORIZ.	MAY 2018
CHECKED BY:	DRK	VERT.	SHEET 3 OF 11
			DRAWING No. GR01



REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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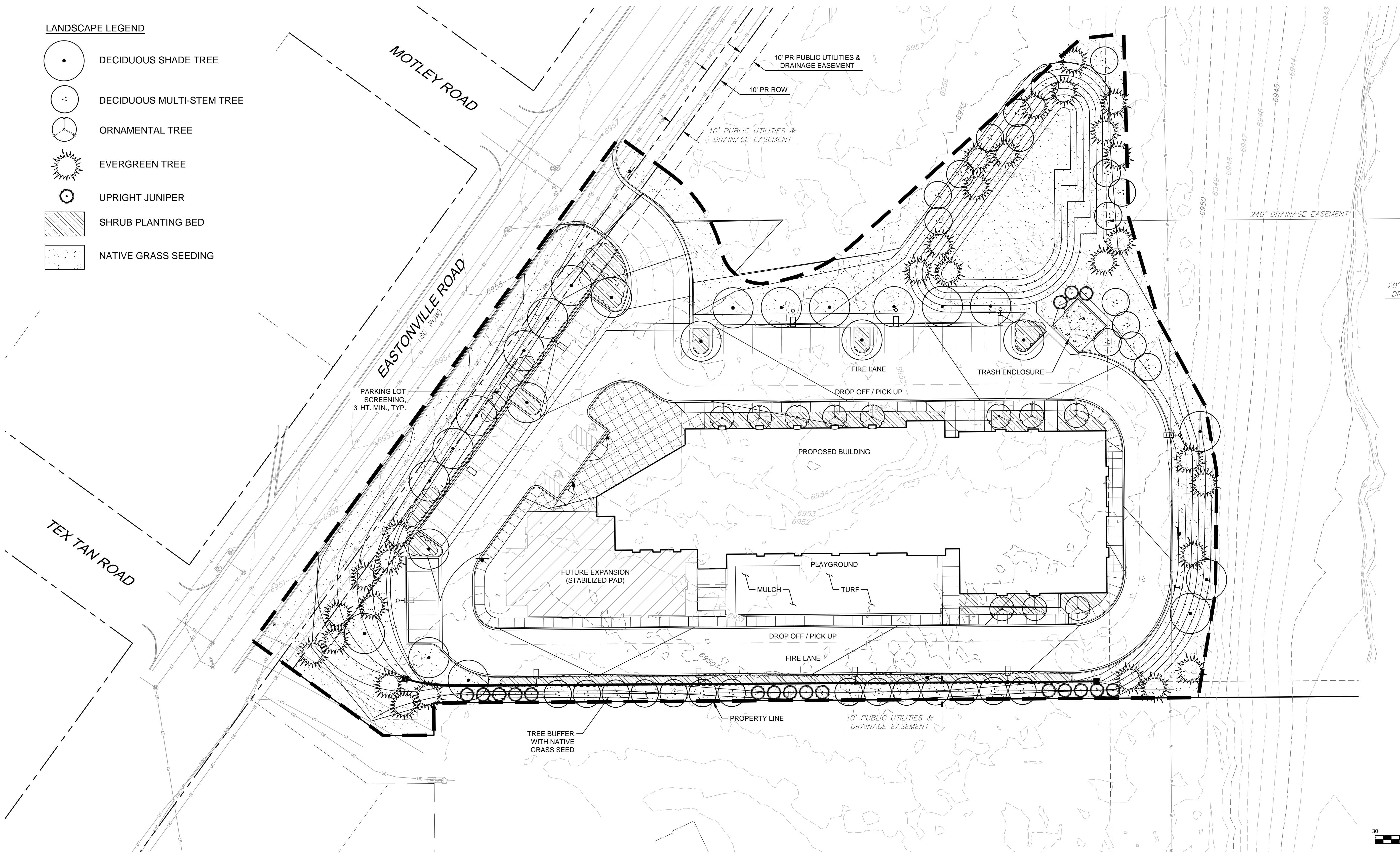


Know what's below.
Call before you dig.



LANDSCAPE LEGEND

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



REFERENCE DRAWINGS

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

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Site Development Plan\LS01_SDP.dwg
CTB FILE: ---
PLOT DATE: 5/3/2018 4:36 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY



SEAL

PRELIMINARY
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MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

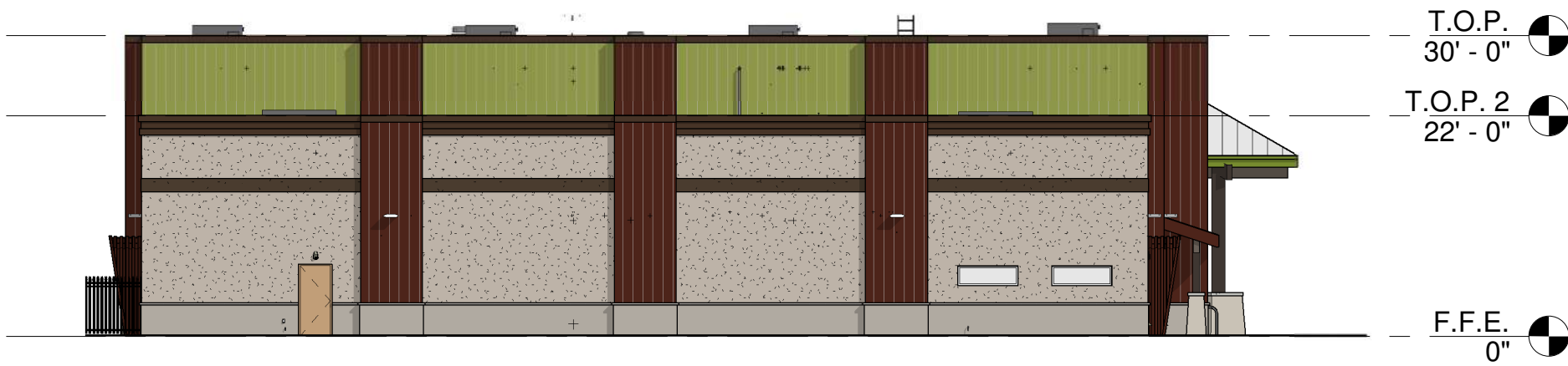
TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

LANDSCAPE PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	MAY 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	SHEET	5 OF 11	LS01
CHECKED BY:	DRK	VERT.			



2 WEST. EL.
SK2.0 1/16" = 1'-0"



3 EAST. EL.
SK2.0 1/16" = 1'-0"



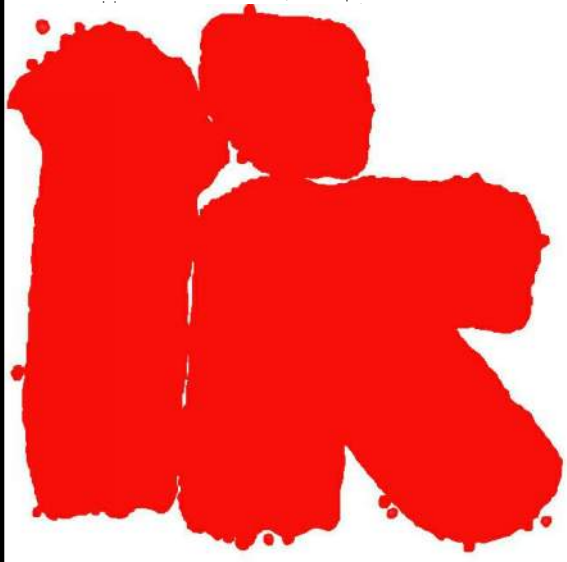
1 NORTH EL.
SK2.0 1/16" = 1'-0"



4 SOUTH EL.
SK2.0 1/16" = 1'-0"



**LIBERTY TREE
ACADEMY**



ROBERT K. ARIACK
Architects And Associates, Inc.

2233 East Thomas Road
Phoenix, Arizona 85016
(602) 955-3900 RKAA.com

DESIGN	DATE
APPROVAL	APPROVED:

PRELIMINARY
NOT FOR
CONSTRUCTION



carhuff+cueva
architects, llc

3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

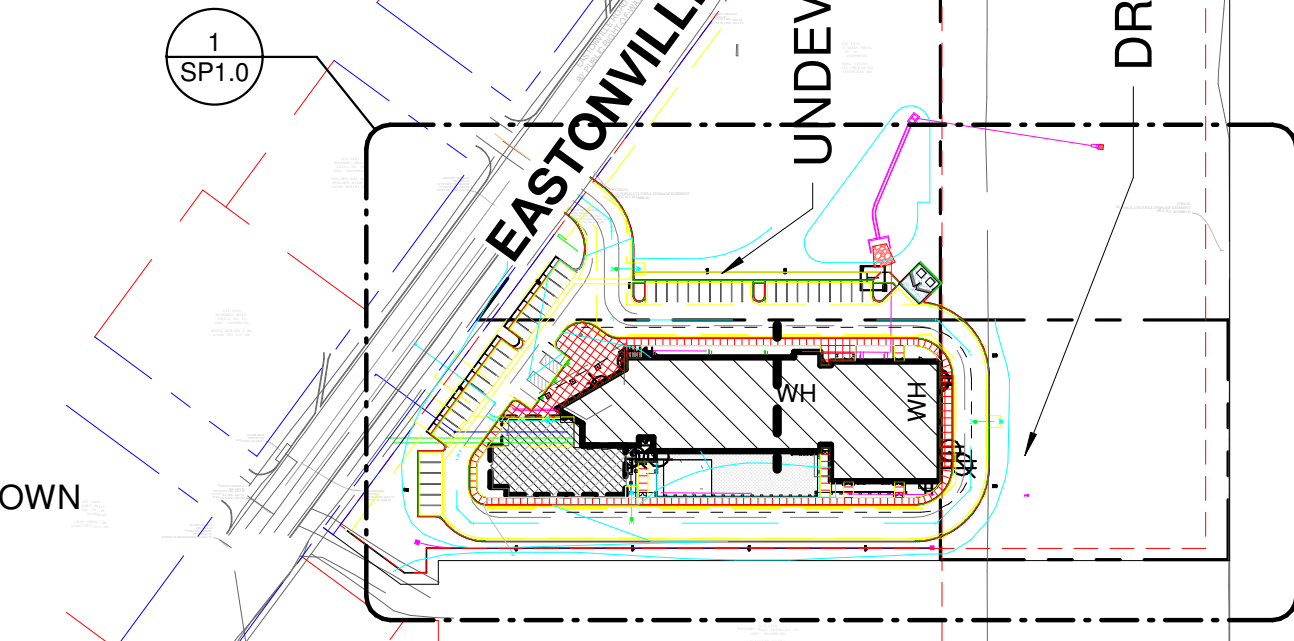
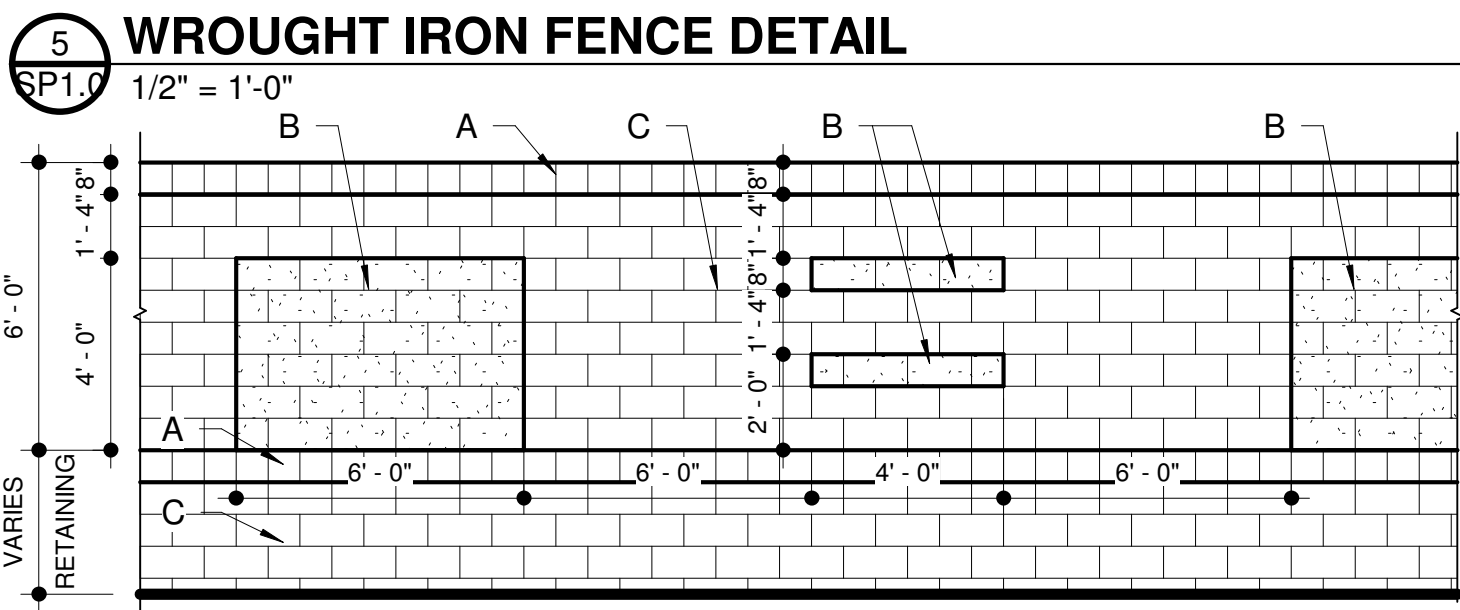
PROJECT NO. P18-8579

DATE APRIL 27, 2018

SCALE 1/16" = 1'-0" DRAWN BY PD

DRAWING TITLE PRESENTATION ELEVATIONS

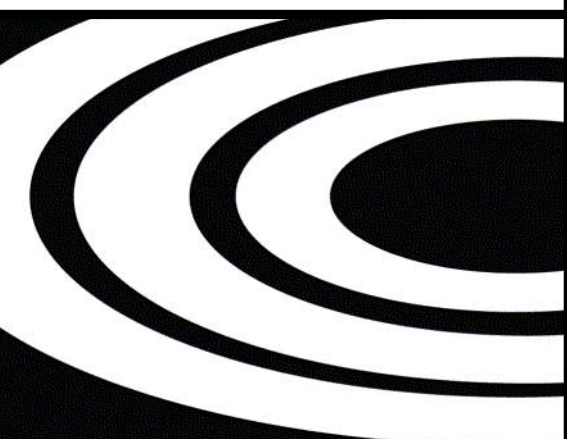
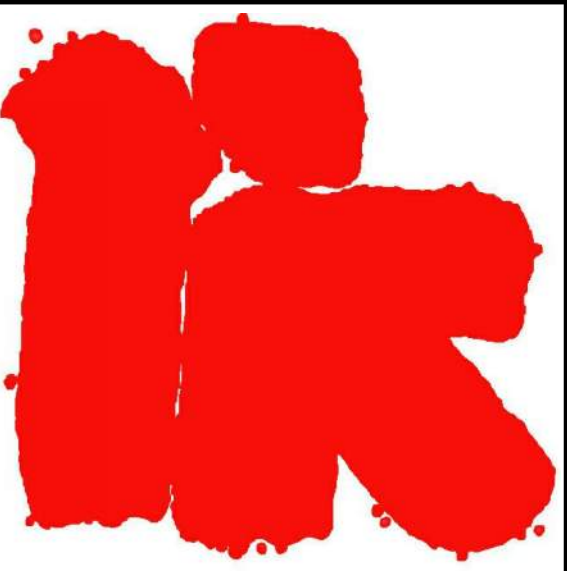
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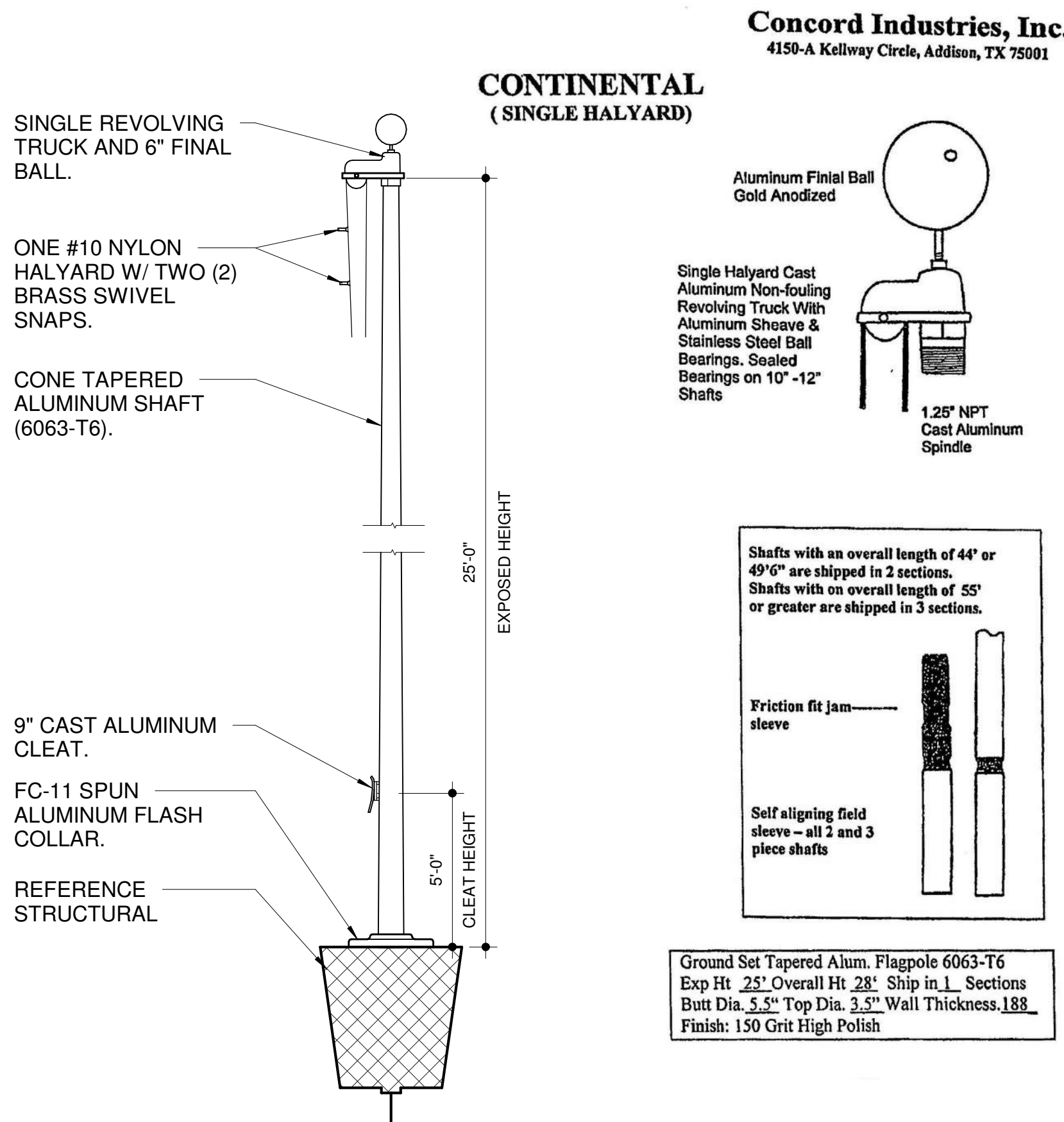


REQUIRED BIKE PARKING 5% OF VEHICLE
PARKING SPACES (49 X .05): **3 SPACES**
PROVIDED BIKE PARKING: **5 SPACES**



1. ACCESSIBLE PARKING SPACE PER CIVIL DRAWINGS.
2. FIRE RISER ENTRANCE. PROVIDE FIRE RISER ROOM SIGNAGE.
3. FIRE HYDRANT PER CIVIL DRAWINGS.
4. SITE LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS.
5. **WATER METER PER CIVIL PLANS.**
6. PROPERTY LINE.
7. 25' HIGH FLAG POLE.
8. **BACKFLOW PREVENTER PER CIVIL PLANS.**
9. INTEGRAL COLOR CMU SCREEN WALL OVER RETAINING WALL. SEE TYPICAL SITE WALL DETAIL.
10. CONCRETE CURB PER DETAILS. PAINTED RED CURB WITH "NO PARKING FIRE LANE" IN 4" WHITE LETTERS ON FACE OF THE CURB SPACED 80' ON CENTER FOR FIRE LANE DESIGNATION AS INDICATED WITH DASHED LINE.
11. CONCRETE RAMP PER CIVIL DRAWINGS
12. CMU PILLAR AND WROUGHT IRON FENCE PER DETAIL.
13. W.I. GATE WITH KEY F.O.B. AND PANIC HARDWARE PER DETAIL.
14. SCORED CONCRETE WITH CONTROL JOINTS 6'-0" O.C., PATTERN PER PLAN.
15. PROVIDE FLUSH-MOUNTED KNOX BOX, MODEL NO. 3200 SERIES @ +6'-0" A.F.F. ORDER AND INSTALL PER PHOENIX FIRE DEPARTMENT REQUIREMENTS
16. TRASH ENCLOSURE GATE PER DETAIL, PROVIDE 6.33" STEEL BOLLARDS 60" ABOVE GRADE, SPACED PER DETAIL. FULL GROUT AND CROWN TOP PRIMED AND PAINTED LIGHT TAN.
17. DECOMPOSED GRANITE PER LANDSCAPE PLANS.
18. UNDERGROUND STORM DRAIN PER CIVIL DRAWINGS.
19. CYCLOOPS 2170-5 BICYCLE PARKING
20. PLAY STRUCTURE BY OWNER GC TO COORDINATE INSTALLATION.
21. ELECTRICAL TRANSFORMER.
22. MONUMENT SIGN LOCATION, (UNDER SEPERATE PERMIT AND SUBMITTAL)

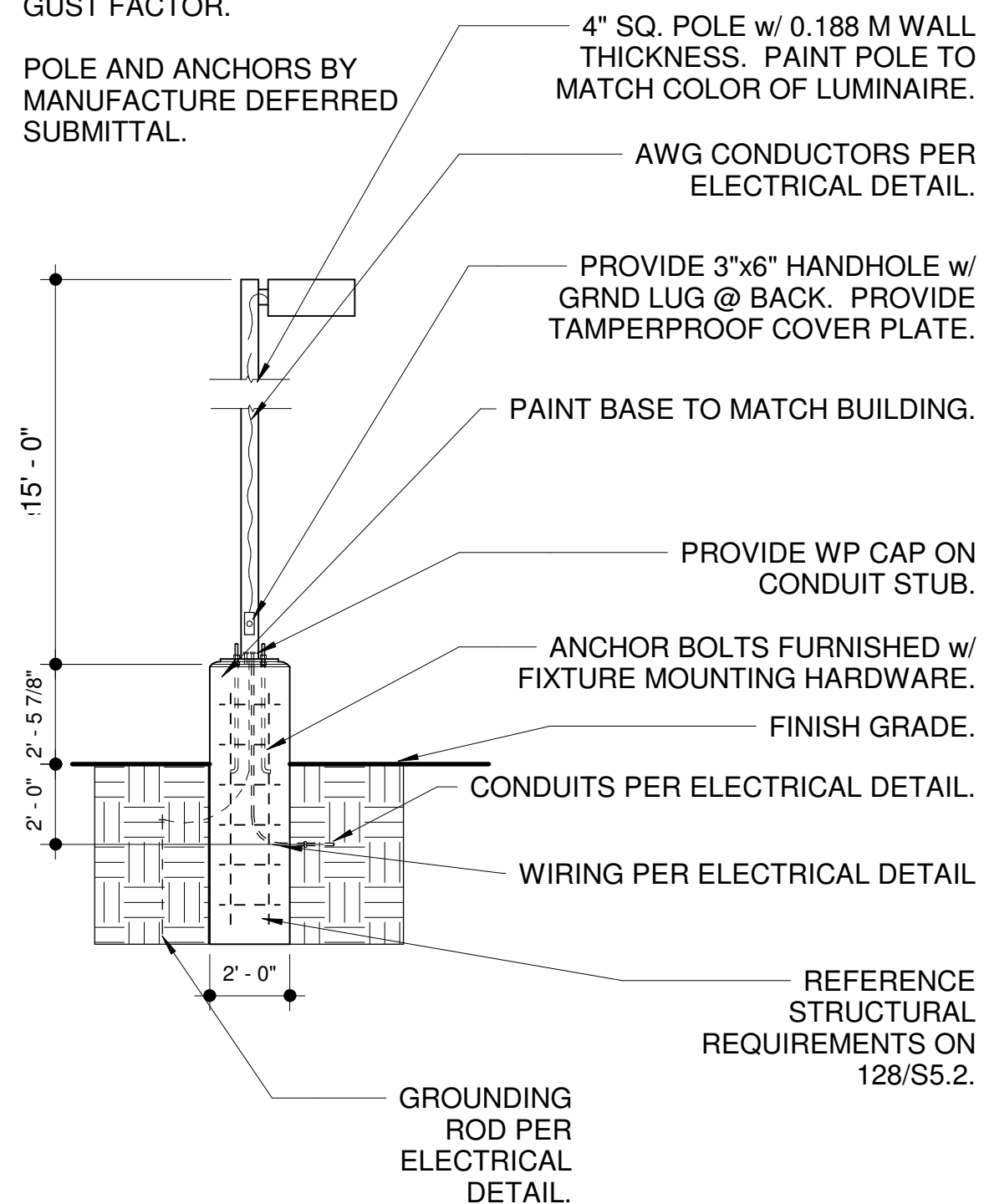




5 FLAG POLE DETAIL
1/4" = 1'-0"

NOTE:
THE POLE MANUFACTURER SHALL PROVIDE A POLE BASE DESIGN FOR 100MPH WIND LOADING w/ A 1.3 GUST FACTOR.

POLE AND ANCHORS BY MANUFACTURE DEFERRED SUBMITTAL.



6 LIGHT POLE DETAIL
1/4" = 1'-0"

GATE HARDWARE SET
EACH TO HAVE:

- 1 EA GATE CLOSER
1 EA IC CYLINDER
1 EA PANIC HARDWARE

PFGCS 1-(714)-994-0276
AS REQUIRED
99-L X 374L X POOL

626 FAL
626 VON

FS18L IVES

- 1 EA FLOOR MOUNTED DOOR STOP

Operational Description
Free Egress at all times. Pressing Push Bar retracts latchbolts. Latchbolt retracted by lever unless locked by key. Key locks and unlocks lever. Dogging by hex key, locks down the pushbar or crossbar so the latchbolt remains retracted.

- 2" SQ. STEEL LATCH SUPPORT
ANCHORED TO CONCRETE,
PRIMED AND PTD.

- 1/2" SQ. BALUSTERS @ 4"
O.C. PRIMED AND
PAINTED
1-1/2" SQ. STEEL TOP AND SIDE
RAIL WELDED FRAME, PRIMED
AND PTD.

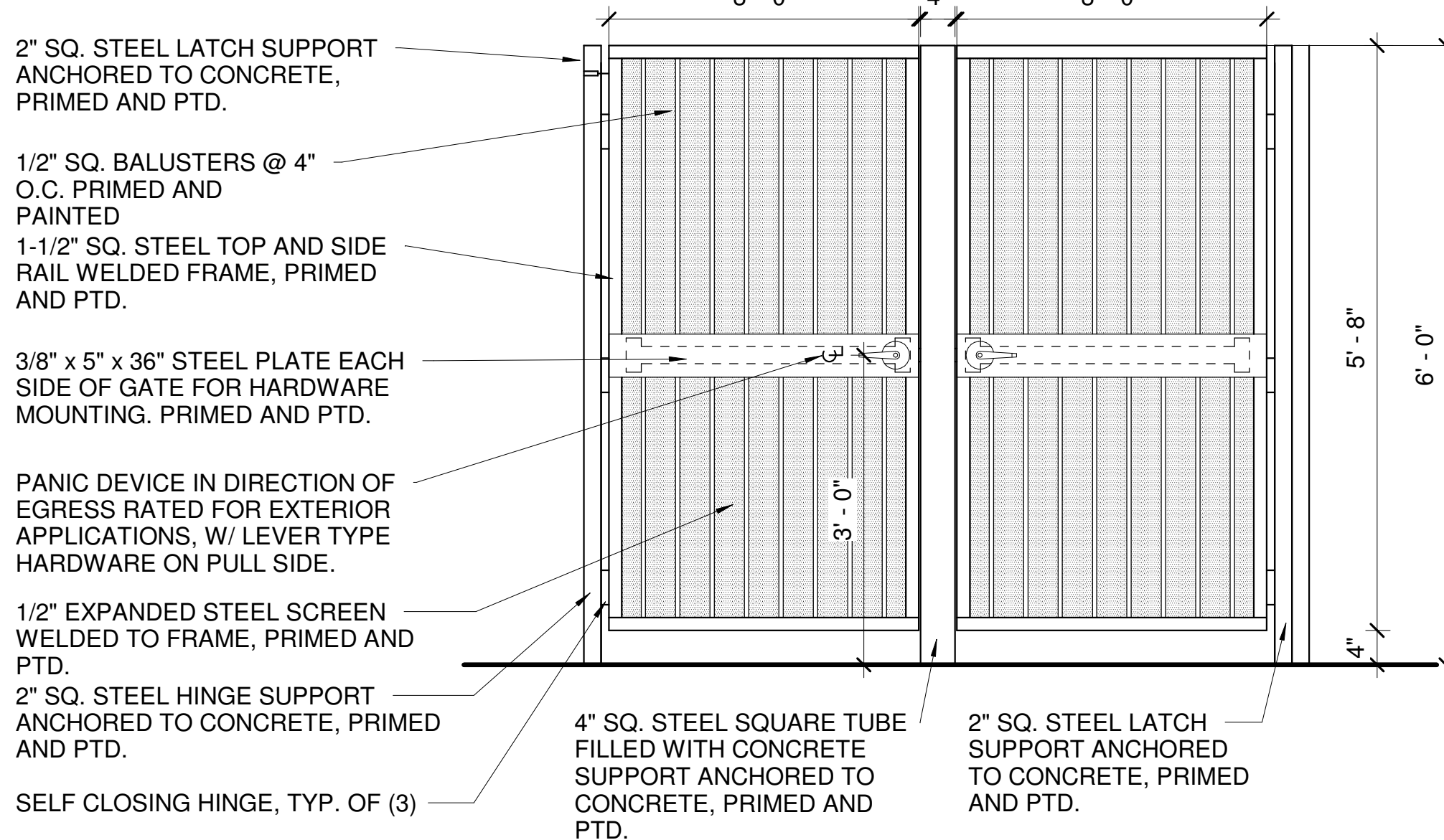
- 3/8" x 5" x 36" STEEL PLATE EACH
SIDE OF GATE FOR HARDWARE
MOUNTING. PRIMED AND PTD.

- PANIC DEVICE IN DIRECTION OF
EGRESS RATED FOR EXTERIOR
APPLICATIONS, W/ LEVER TYPE
HARDWARE ON PULL SIDE.

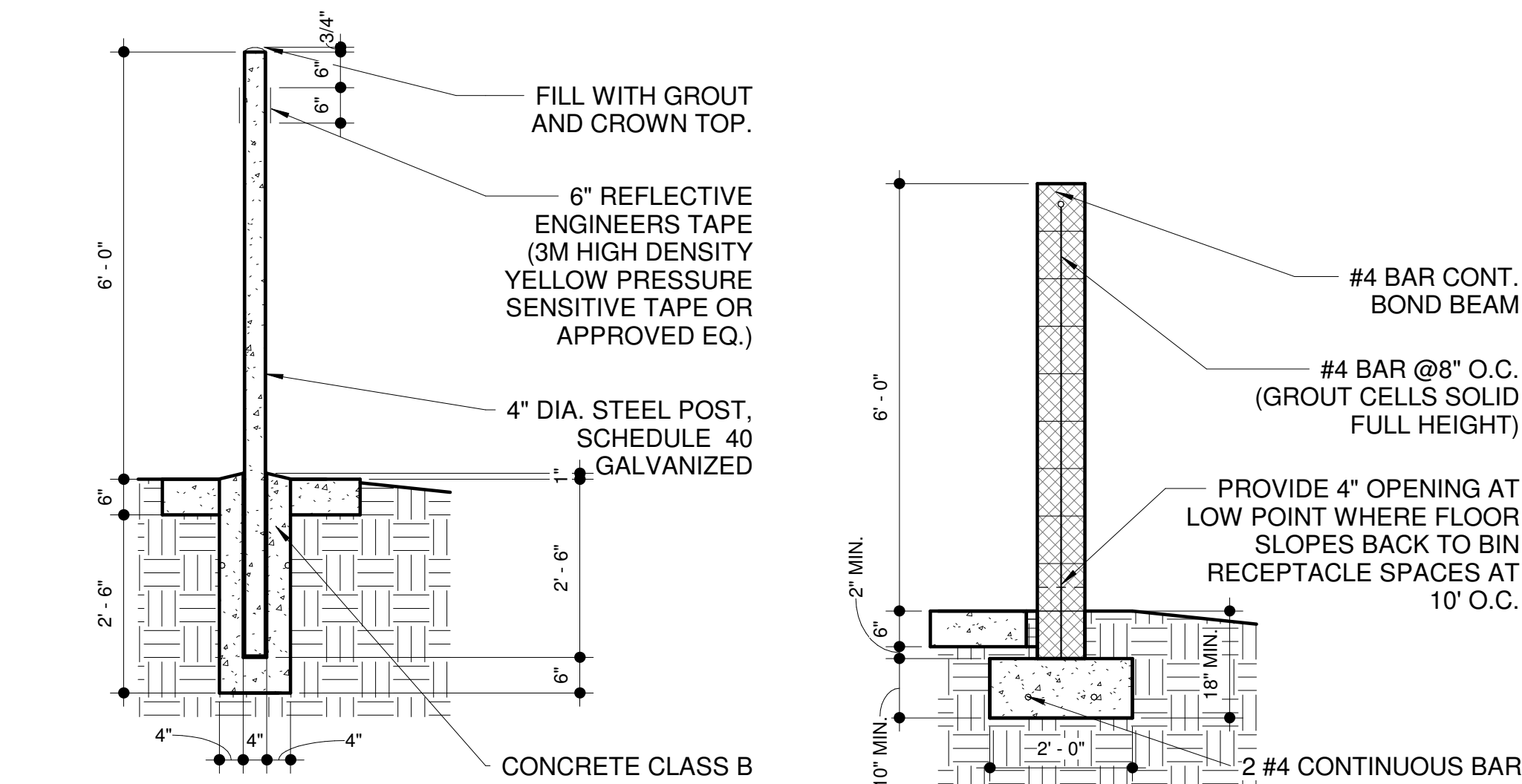
- 1/2" EXPANDED STEEL SCREEN
WELDED TO FRAME, PRIMED AND
PTD.

- 2" SQ. STEEL HINGE SUPPORT
ANCHORED TO CONCRETE, PRIMED
AND PTD.

- SELF CLOSING HINGE, TYP. OF (3)



4 DOUBLE GATE DETAIL
3/4" = 1'-0"



3 BOLLARD DETAIL
1/2" = 1'-0"

2 TRASH ENCLOSURE WALL DETAIL
1/2" = 1'-0"

DUMPSTER ENCLOSURE GENERAL NOTES:

1. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.
2. STEEL REINFORCEMENT SHALL BE GRADE 40.

PEDESTRIAN GATE WITH
B-DECKING OVER 2x2
STEEL FRAME, PRIMED
AND PTD TO MATCH
BUILDING. PROVIDE
LOCKING HASP AND LATCH

PIN HOLE
STOP

1/2" BITUMINOUS
TYPE EXPANSION
JOINT FILLER ASTM
D-1751

6" THICK CONCRETE
APPROACH SLAB w/
THICKENED EDGES, CLASS
'A' CONC. w/ 6"x6", 1.4x1.4
WWF ON COMPACTED
SUBGRADE.

(2) 6" DOORS -
REQUIRED WITH 2"
CLEARANCE UNDER.
PROVIDE 1/2" DROP
PINS AND PIN HOLES
IN CONCRETE SLAB.

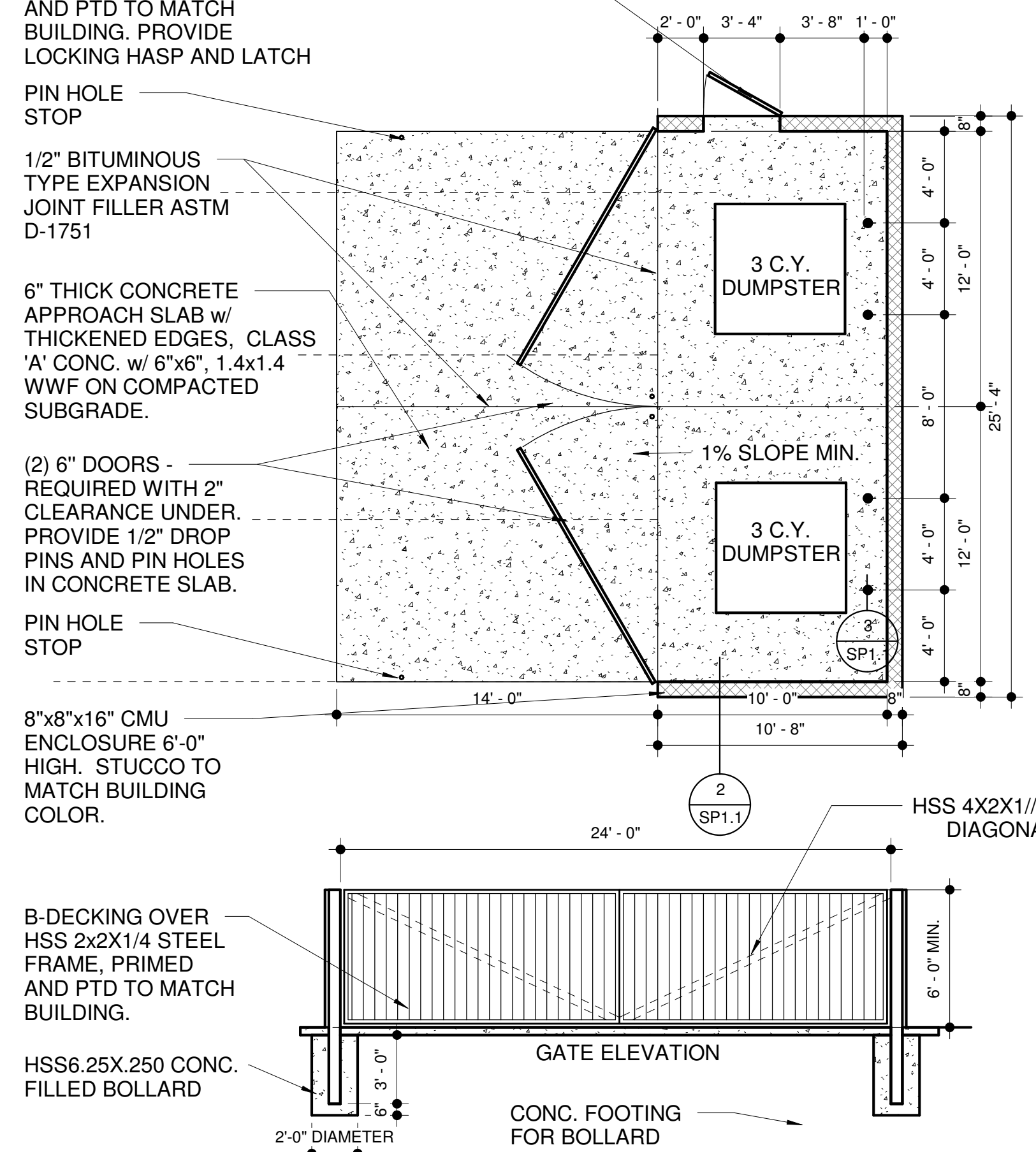
PIN HOLE
STOP

8"x8"x16" CMU
ENCLOSURE 6'-0"
HIGH. STUCCO TO
MATCH BUILDING
COLOR.

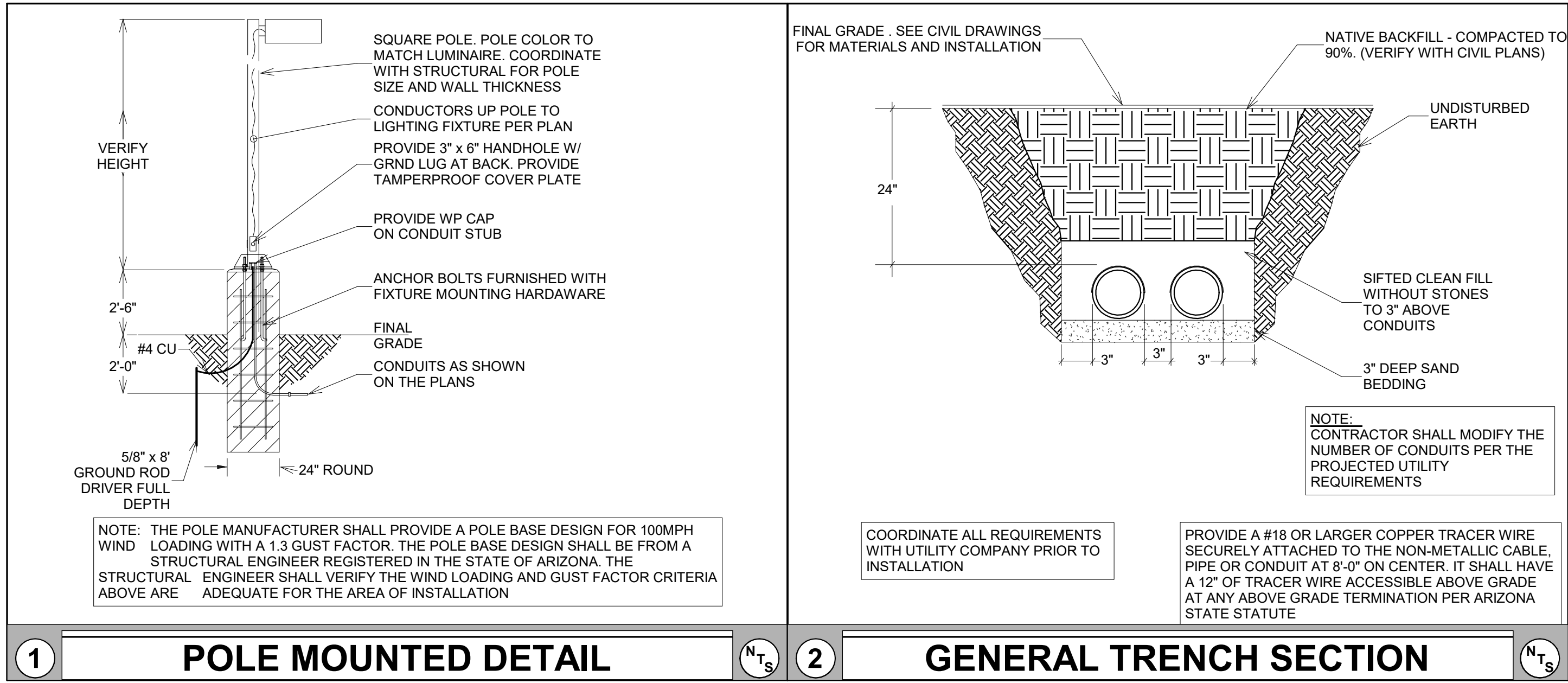
B-DECKING OVER
HSS 2x2X1/4 STEEL
FRAME, PRIMED
AND PTD TO MATCH
BUILDING.

HSS6.25X.250 CONC.
FILLED BOLLARD

CONC. FOOTING
FOR BOLLARD



1 DUMPSTER ENCLOSURE
3/16" = 1'-0"



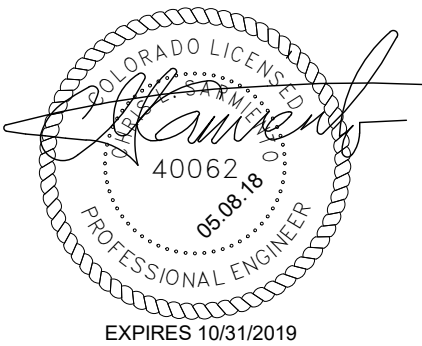
GENERAL NOTES

- A THIS ELECTRICAL UTILITIES SITE PLAN IS FOR REFERENCE ONLY. NO CONSTRUCTION IS TO BEGIN UNTIL FINAL UTILITY COMPANY PLANS ARE RECEIVED. UTILITY COMPANY DESIGN IS NOT AVAILABLE AT THIS TIME. ADDITIONAL WORK WILL BE REQUIRED.
- B ALL WORK SHALL BE PER UTILITY COMPANY CONSTRUCTION STANDARDS AND SPECIFICATIONS. PROVIDE CONDUIT SPACERS THROUGHOUT AND CONCRETE ENCASEMENT WHERE FEEDERS PASS UNDER DRIVEWAYS AND OR PARKING LOTS.
- C ALL TRANSFORMER BOXES, METER PANELS, ELECTRICAL EQUIPMENT AND MISCELLANEOUS UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT BUILDING COLORS WHERE SCREENING IS NOT APPLICABLE. COORDINATE WITH UTILITY PRIOR TO PAINTING.
- D SEE SHEET E0.1 GENERAL NOTES FOR ADDITIONAL UTILITY COORDINATION NOTES.
- E ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.
- F THE CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROLLER AS PER THE LIGHTING DIAGRAM PRIOR TO CALLING THE CITY FOR THE INSPECTION.
- G THE CONTRACTOR IS TO SCHEDULE A NIGHT TIME INSPECTION OF THE ENERGIZED LIGHTING, TO ATTEND THIS INSPECTION AND TO CORRECT ALL ITEMS IDENTIFIED DURING INSPECTION PRIOR TO ISSUING THE FINAL CERTIFICATE OF OCCUPANCY.

KEYED NOTES

- 1 PROPOSED LOCATION OF UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS AND LOCATION. MAINTAIN MINIMUM CLEARANCE IN FRONT, SIDES AND BACK OF UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.
- 2 PROVIDE SECONDARY CONDUIT WITH MULETAPE FROM NEW UTILITY COMPANY TRANSFORMER TO S.E.S. UTILITY PULL SECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT QUANTITY, ROUTING AND REQUIREMENTS. TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING.
- 3 PROVIDE WEATHER PROOF J-BOX AT GATE FOR CARD READER. VERIFY MOUNTING AND LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 4 PROVIDE (2) 4" UG CONDUITS STUB-UPS WITH PULL STRING FOR FUTURE PHASE 2 ADDITION, FROM SES TO FUTURE BUILDING ELECTRICAL ROOM LOCATION. VERIFY EXACT ROUTING, DISTANCE, AND STUB-UP WITH OWNER PRIOR TO DIGGING.
- 5 PROVIDE WP J-BOX FOR MONUMENT SIGN LIGHTING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 6 ROUTE LIGHTING HOME RUN THROUGH LIGHTING CONTROL PANEL OR TIME CLOCK AS REQUIRED FOR CONTROL.
- 7 PROVIDE (2) 4" CONDUIT WITH PULLWIRE TO TEL/CO/CATV POINT OF CONNECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED.

**LIBERTY TREE
ACADEMY**



**carhuff+cueva
architects, llc**

3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO.
18001

DATE
MAY 8, 2018

SCALE
As indicated

DRAWN BY
Author

DRAWING TITLE
ELECTRICAL SITE PLAN

DRAWING NUMBER
E1.1

6 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"



ASEIENGINEERING

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DSN: ME/SR
JOB NO:
180790
CHK: CLS

CALL 4-7 WORKING DAYS
BEFORE YOU DIG
1-800-922-1987
COLORADO UNDERGROUND
SERVICE ALERT

Power Company: MOUNTAIN VIEW ELECTRIC
Telephone #: 1-719-495-2283

Telephone Company: Century Link
Telephone #: 1-719-453-1443

Submit drawings to Utility Company representative as
required in the General Notes included in the Electrical
Drawings.

5/8/2018 1:46:45 PM

GENERAL NOTES

1 ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.

LIBERTY TREE
ACADEMY



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architects, llc

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www.cca-az.com
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NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO. 18001

DATE MAY 8, 2018

SCALE 1" = 40'-0" DRAWN BY Author

DRAWING TITLE ELECTRICAL SITE PHOTOMETRIC CALCULATIONS

DRAWING NUMBER E1.2

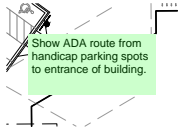
WWL Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Grade	Illuminance	Fc	2.03	9.4	0.0	N.A.	N.A.
Spill at property line	Illuminance	Fc	0.00	0.1	0.0	N.A.	N.A.

WWL Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	
○	3	C2	SINGLE	N.A.	0.940	IHOL-6DR-M1-40-D101-VOLTS-40/ IRD602-HZ-SF-SL Mounted at 10 ft-3 inches aff. Dimmed to 70%	
○	12	C3	SINGLE	N.A.	1.040	IHOL-8SR-M1-40-D101-VOLTS-40/ IRS-XX-HZ-SF Mounting height varies. See elevation for heights	
○→	4	PL1	SINGLE	12425	0.980	ARE-EDG-4M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
○→	6	PL2	SINGLE	8714	0.980	ARE-EDG-3MB-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
○→	2	PL3	SINGLE	10573	0.980	ARE-EDG-4MB-DA-06-E-UL-BK-525-40K Mounted at 18 ft afg	
○→	3	PL4	SINGLE	11779	0.980	ARE-EDG-3M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
⊕	13	WP1	SINGLE	N.A.	0.970	SEC-EDG-4M-WM-04-E-UL-BK-525-40K Mounted at 12 ft afg	



Markup Summary

dsdkendall (1)

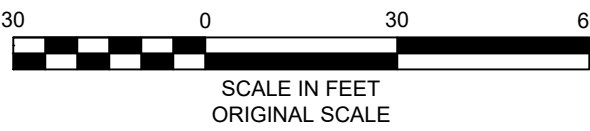


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Page Label: [2] SP01
Author: dsdkendall
Date: 6/13/2018 3:21:29 PM
Color: ■

Show ADA route from handicap parking spots to entrance of building.



Know what's below.
Call before you dig.

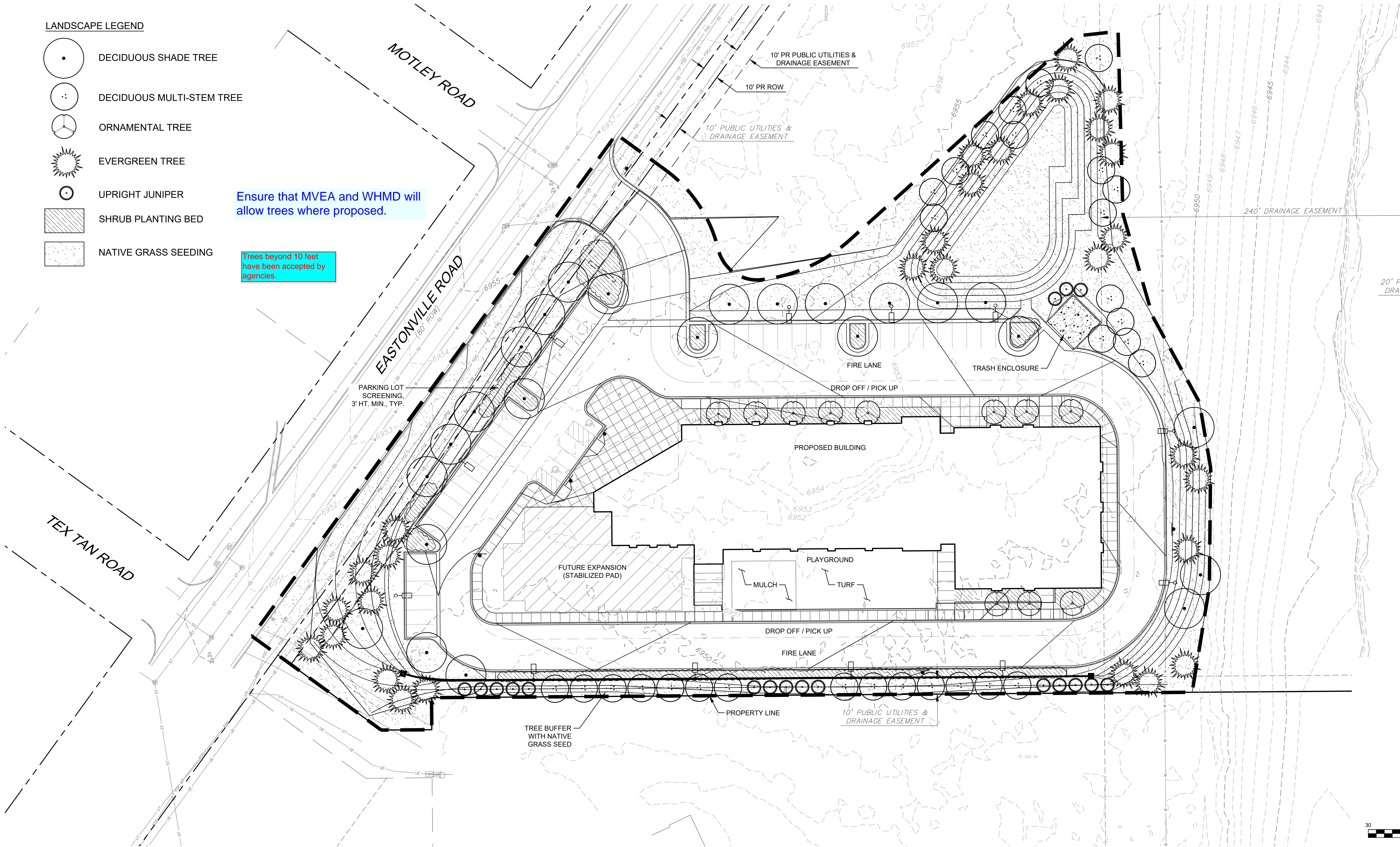


LANDSCAPE LEGEND

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

Ensure that MVEA and WHMD will allow trees where proposed.

Trees beyond 10 feet have been accepted by agencies.



REFERENCE DRAWINGS

X-995-MD022x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-GRAD
X-995-PR-LANDSCAPE

No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT

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CTB FILE: ---
PLOT DATE: 5/4/2018 11:17 AM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY



PREPARED BY:
Matrix
DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

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FOR AND ON BEHALF OF
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PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

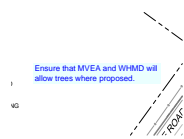
TOWN OF PEYTON, EL PASO COUNTY
CONSTRUCTION DOCUMENTS

LANDSCAPE PLAN

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

Markup Summary

dsdrice (1)



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