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CITY OF AUSTIN  
BUILDING SERVICE DEPARTMENT

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(512) 974-3972

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LANDSCAPE ARCHITECT:  
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AUSTIN, TEXAS 78752

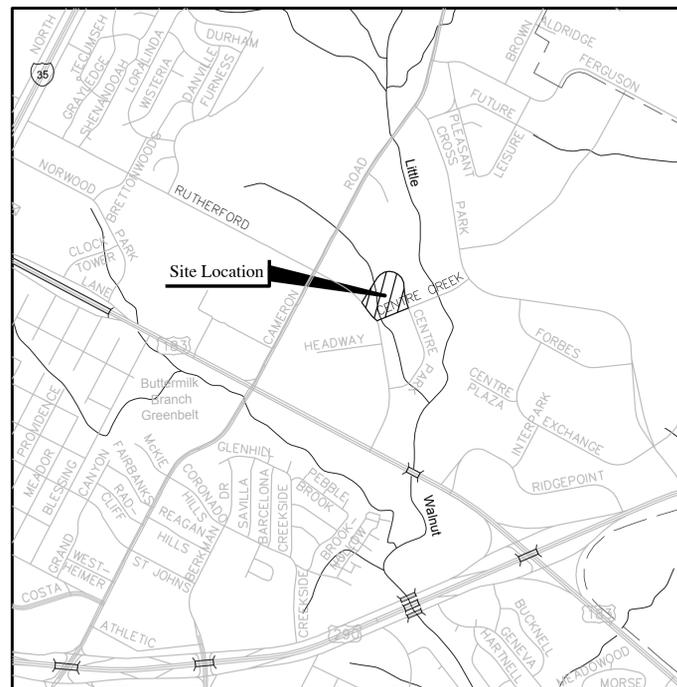
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# Rutherford Lane Campus Parking Lot Improvements Austin, Texas 78754

SUBMITTAL DATE  
DATE: SEPTEMBER 10, 2019

SHEET NUMBER	INDEX NUMBER	SHEET LIST	SHEET DESCRIPTION
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C003	4	GENERAL NOTES (SHEET 3)	
C004	5	EXISTING CONDITIONS (SHEET 1)	
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C100	7	OVERALL SITE PLAN	
C101	8	DIMENSIONAL CONTROL PLAN (SHEET 1)	
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C200	14	DEMOLITION, EROSION/SEDIMENTATION CONTROL, & TREE PROTECTION PLAN (SHEET 1)	
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MAPSCO GRID # 526-Y COA GRID # M28



LOCATION MAP

**NOTES:**

- THIS SITE LIES WITHIN THE COA FULL PURPOSE JURISDICTION.
- NO PORTION OF THIS PROJECT SITE IS WITHIN THE 100 YEAR FLOODPLAIN AS PER FEMA FIRM PANEL #48453C0460K, DATED JANUARY 6, 2016.
- AN ENVIRONMENTAL RESOURCE INVENTORY PERFORMED BY BAER ENGINEERING AND ENVIRONMENTAL CONSULTING, INC. ON DECEMBER 22, 2017 FOUND THAT THERE WAS A WETLAND WITHIN THE EXISTING ON-SITE DETENTION POND.
- THIS SITE IS NOT LOCATED OVER THE EDWARD'S AQUIFER RECHARGE OR CONTRIBUTING ZONES.
- TREES GREATER THAN 8" IN DIAMETER ARE KNOWN TO EXIST ON THIS SITE.
- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO BE ON SITE AT ALL TIMES.

LEGAL DESCRIPTION: LOT 11, BLOCK C HEADWAY 8  
LOT 1-3, HEADWAY 4  
LOT 1 HEADWAY 9-A

WATERSHED: LITTLE WALNUT CREEK

CLASSIFICATION: URBAN

RELATED CASES: SPL-85-04-1926 ZONING: INDUSTRIAL PARK (IP)

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 25-8 SUBCHAPTER-A OF THE LAND DEVELOPMENT CODE.

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

SUBMITTED BY:  DATE \_\_\_\_\_  
JASON BASS, P.E.  
MWM DESIGN GROUP  
305 E HUNTLAND DRIVE, SUITE 200  
AUSTIN, TX. 78752  
(512)453-0767

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
FOR DIRECTOR OF PLANNING AND DEVELOPMENT REVIEW DEPARTMENT

SITE DEVELOPMENT PERMIT NUMBER \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
AUSTIN WATER

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF AUSTIN FIRE DEPARTMENT

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
INDUSTRIAL WASTE

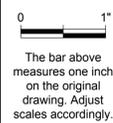
CITY OF AUSTIN REVISION BLOCK

No.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET No.'s	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ. FT.)	TOTAL SITE IMP. COVER (SQ. FT.)/%	CITY OF AUSTIN APPROVAL DATE	DATE IMAGED
R5	NEW PARING LOT	ADD 9-49	49	XXX	XXX		



**mwm Design Group**  
305 East Huntland Drive  
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Austin, Texas 78752  
p: 512.453.0767  
f: 512.453.1734  
TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**COVER SHEET**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C000**

1 OF 44

File: Y:\023-85C-Rutherford\_Park\_Lot\CAD\Sheets\02385C-COVER\_SHEET.dwg 22x34

**CONTRACTOR NOTES:**

1. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE AND LOCATION OF ALL UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES. THE CONTRACTOR SHALL A) IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES, AND B) PAY FOR SAME AT NO EXTRA COST TO THE OWNER.
2. THE BIDDER (CONTRACTOR AFTER AWARD) SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY UNREPORTED OBSTACLES OR DISCREPANCIES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.
3. WHERE REMOVAL OF BASE AND PAVEMENT IS NECESSARY FOR THIS PROJECT ALL BASE AND PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND COA STANDARD SPECIFICATIONS. ALL PAVEMENT CUTS SHALL BE SAW CUT PRIOR TO PLACEMENT OF H.M.A.C. AND COORDINATED WITH COA AND CITY INSPECTORS.
4. SLOPES OF ROADWAY CUTS AND EMBANKMENTS DAMAGED BY ANY OPERATION OF THE CONTRACTOR DURING THE EXECUTION OF THIS PROJECT SHALL BE REPAIRED AND RESTORED TO THE ORIGINAL PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS. BACK FILL AND FILL PLACED DURING REMEDIAL GRADING SHALL BE COMPACTED TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITIES.
5. BEFORE DISCONNECTING ANY WATER LINE OR GAS LINE, CONTRACTOR MUST PROVIDE FORTY-EIGHT (48) HOUR NOTICE TO THE OWNER EXCEPT IN THE CASE OF A BONA FIDE EMERGENCY.
6. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH IS SPECIFIED ON THIS SHEET.
7. ALL CONSTRUCTION SHALL FOLLOW THE LATEST VERSIONS OF THE CITY OF AUSTIN STANDARD DETAILS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
8. UPON REQUEST, COMPUTER AIDED DESIGN (CAD) FILES CAN BE MADE AVAILABLE TO THE CONTRACTOR FOR THE PURPOSES OF CONSTRUCTION STAKING.
9. CONTRACTOR TO PROVIDE A 24-HOUR (MINIMUM) NOTICE TO ENGINEER PRIOR TO ALL UTILITY INSTALLATION TO ALLOW FOR VISUAL OBSERVATION OF TRENCH EXCAVATION, BEDDING, PIPE MATERIAL, AND BACKFILL.

**GENERAL CONSTRUCTION NOTES:**

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. CONTRACTOR SHALL CALL "DIG-TESS" SYSTEM (1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
3. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH, A NOTE MUST BE ADDED STATING: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN TEXAS.)
5. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS.

**PAVEMENT:**

1. HOT MIX ASPHALTIC CONCRETE (H.M.A.C.), WHEN REQUIRED, SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH ITEM 340 OF THE STANDARD SPECIFICATIONS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS FOR CUTS IN PUBLIC RIGHT OF WAY.
2. FLEXIBLE BASE SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH ITEM 210 OF THE STANDARD SPECIFICATIONS AND IN COMPLIANCE WITH THE CITY OF AUSTIN STANDARDS AND STANDARD SPECIFICATIONS FOR CUTS IN PUBLIC RIGHT OF WAY.
3. CONCRETE PAVEMENT SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH ITEM 360 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
4. PAVEMENT DESIGN BASED ON RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL ENGINEERING REPORT (NO. AG1517110.11.2), PREPARED BY HVJ ASSOCIATES, INC., DATED OCTOBER 4, 2017.
5. CONTRACTOR SHALL PROVIDE A 24-HOUR (MINIMUM) NOTICE TO ENGINEER PRIOR TO ALL CONCRETE POURS TO ALLOW FOR VISUAL OBSERVATION OF FORMWORK AND REBAR PLACEMENT.

**EXCAVATION AND BACKFILL:**

1. ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.

2. CONTRACTOR/REPAIR CREW MUST NOTIFY INSPECTOR AT LEAST TWENTY FOUR (24) HOURS PRIOR TO BEGINNING PERMANENT BACK FILL OPERATIONS.

3. BACKFILL DENSITY SHALL BE AS SPECIFIED IN ITEM 510 OF THE COA STANDARD SPECIFICATIONS. TEST METHODS SHALL BE AS SPECIFIED IN THE CITY STANDARD SPECIFICATIONS UNLESS INDICATED OTHERWISE IN WRITING BY THE ENGINEER.

4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INCLUDING THOSE THAT ARE REQUIRED TO COMPLY WITH SECTIONS 15-12-181 AND 15-12-181 OF THE CITY CODE REGARDING EXCAVATION IN PUBLIC RIGHT OF WAY.

**AMERICANS WITH DISABILITIES ACT:**

THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY DEVELOPMENT REGULATIONS ONLY. THE APPLICANT, PROPERTY OWNER, AND OCCUPANT OF THE PREMISES ARE RESPONSIBLE FOR DETERMINING WHETHER THE PLAN COMPLIES WITH ALL OTHER LAWS, REGULATIONS, AND RESTRICTIONS WHICH MAY BE APPLICABLE TO THE PROPERTY AND ITS USE.

**HANDICAP ACCESSIBILITY:**

1. ACCESSIBLE ROUTES MUST HAVE A RUNNING-SLOPE NO GREATER THAN 5% UNLESS DESIGNED AS A RAMP.
2. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 2%.
3. THE MAXIMUM RUNNING SLOPE OF A RAMP IN NEW CONSTRUCTION IS 8.33%.
4. TAS AND ADA CRITERIA SHALL GOVERN.

**SAFETY:**

1. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT AND WORKMANLIKE MANNER AT ALL TIMES. JOB SITE SAFETY SHALL NOT BE COMPROMISED. ANY UNATTRACTIVE NUISANCE SHALL BE REMOVED OR CAMOUFLAGED BY CONTRACTOR WHEN DIRECTED BY THE OWNER OR ENGINEER.
2. ALL HOLES, TRENCHES, AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS, AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.
3. REMOVAL OF EXCAVATED MATERIALS AND DAILY CLEANUP OPERATIONS SHALL BE PERFORMED TO THE SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.
4. CONTRACTOR SHALL MAINTAIN A SUPERINTENDENT UPON THE PROJECT AT ALL TIMES WORK IS IN PROGRESS.

**TRAFFIC CONTROL NOTES:**

1. THE CONTRACTOR SHALL MAINTAIN CLEAR PASSAGE FOR LOCAL TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
2. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, WARNING SIGNS, AND FLAG MEN OPERATIONS SHALL BE PLACED, CONSTRUCTED, EXECUTED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. WHERE PORTABLE SIGNS REQUIRE THE USE OF WEIGHTS, SANDBAGS SHALL BE USED. THE USE OF SOLID OBJECTS SUCH AS CONCRETE, ROCKS, IRON, ETC. SHALL NOT BE PERMITTED.
4. INSTALLATION OF CONSTRUCTION BARRICADING AND SIGNING SHALL BE COORDINATED THROUGH THE CITY OF AUSTIN RIGHT OF WAY MANAGEMENT AT (512) 974-1150 (OR APPLICABLE REGULATORY ENTITY).
5. ALL TRAFFIC CONTROL SIGNS SHALL REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS. IF SIGNS REQUIRE RELOCATION, CONTRACTOR SHALL CONTACT THE CITY OF AUSTIN RIGHT OF WAY MANAGEMENT AT (512) 974-1150 (OR APPLICABLE REGULATORY ENTITY).
6. CONTRACTOR MUST RESTORE ALL PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL OBSERVE ALL APPLICABLE MATERIALS, SPECIFICATIONS, AND INSTALLATION REQUIREMENTS INCLUDING SPECIAL ATTENTION TO MAINTAINING PROPER DIMENSIONS AND ALIGNMENT.

**TRENCH SAFETY:**

1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED.
2. IN ACCORDANCE WITH THE U.S. OSHA REGULATIONS, WHEN EMPLOYEES ARE REQUIRED TO BE IN TRENCHES 4 FOOT DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.

**EROSION CONTROL NOTES (ECM- APPENDIX P-1):**

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTIVE FENCING, AND CONDUCT "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).

2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY COA EV PLAN REVIEWERS AS WELL AS COA EV INSPECTORS.

3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.

4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTION MEASURES AND "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE DEVELOPMENT SERVICES DEPARTMENT, 512-974-2278 OR BY EMAIL AT ENVIRONMENTALINSPECTIONS@AUSTINTEXAS.GOV, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME.

5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED COA STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.

6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR THAT IS EITHER A LICENSED ENGINEER (OR PERSON DIRECTLY SUPERVISED BY THE LICENSED ENGINEER) OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC OR CPESC - IT), CERTIFIED EROSION, SEDIMENT AND STORMWATER - INSPECTOR (CESSM) OR CESSM - IT) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC OR CISEC - IT) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY OR BI-WEEKLY INTERVALS AND AFTER ONE-HALF (½) INCH OR GREATER RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES OR ONE-THIRD (⅓) OF THE INSTALLED HEIGHT OF THE CONTROL WHICHEVER IS LESS.

7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS: ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION. IN ADDITION, IF THE PROJECT SITE IS LOCATED WITHIN THE EDWARDS AQUIFER, THE PROJECT MANAGER MUST NOTIFY THE TRAVIS COUNTY BALCONES CANYONLANDS CONSERVATION PRESERVE (BCCP) BY EMAIL AT BCCP@TRAVISCOUNTYTX.GOV. CONSTRUCTION ACTIVITIES WITHIN 50 FEET OF THE VOID MUST STOP.

9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.

- TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.

AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.

- SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN WHEATGRASS ( PASCOPYRUM SMITHII ) AT 5.6 POUNDS PER ACRE, OATS ( AVENA SATIVA ) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN ( SECALE CEREALE ) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS ( LOLIUM MULTIFLORUM ) OR PERENNIAL RYEGRASS ( LOLIUM PERENNE ). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.

2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.

A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.

B. HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.

C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.

D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATION 604S OR 609S.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
100% OR ANY BLEND OF WOOD, CELLULOSE STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0-3 MONTHS	MODERATE SLOPES: FROM FLAT TO 3:1	1500 TO 2000 LBS PER ACRE

PERMANENT VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDING IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDA GRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.

2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.

A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR.

B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.

C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6-4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.

D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.

E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS 10% TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSION SOIL CONDITIONS	2500 TO 4000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSION SOIL CONDITIONS	3000 TO 4500 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)

NO.	DATE	DESCRIPTION	BY



The bar above measures one inch on the original drawing. Adjust scales accordingly.

**GENERAL NOTES (SHEET 1)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

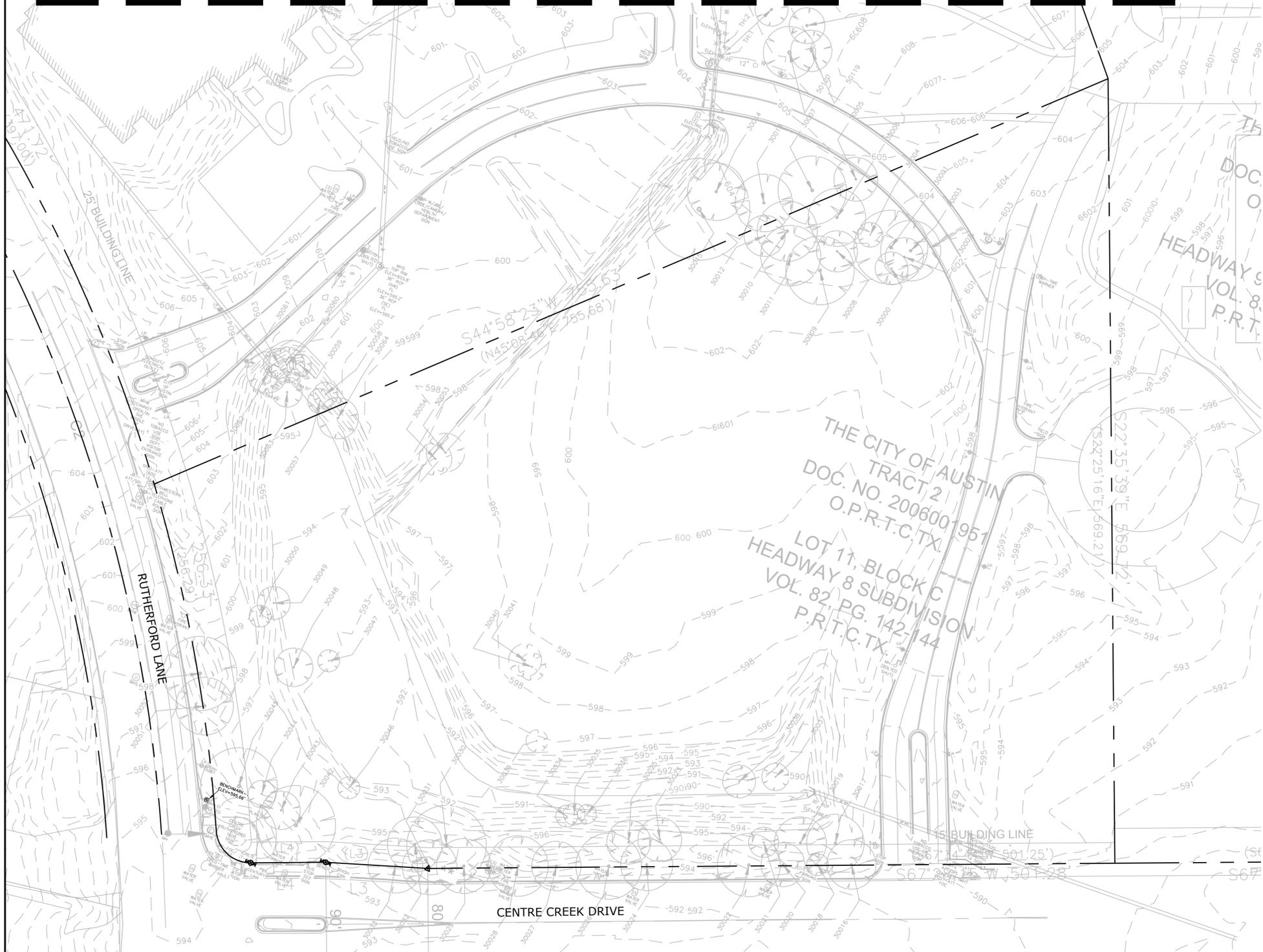
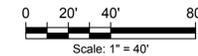
**C001**  
2 OF 44







MATCHLINE - SEE SHEET C005



- LEGEND**
- ⊙ 5/8" IRON ROD WITH A PLASTIC CAP STAMPED "SAM" SET
  - ⊙ 1/2" IRON ROD FOUND WITH CAP "CARSON AND BUSH" (UNLESS NOTED)
  - ⊙ MAG NAIL WITH A SHINER STAMPED "SAM" SET
  - ⊙ 60D NAIL WITH SHINER FOUND (UNLESS NOTED)
  - SPINDLE FOUND
  - ▲ CALCULATED POINT
  - O.P.R.T.C.TX. OFFICIAL PUBLIC RECORDS TRAVIS COUNTY TEXAS
  - P.R.T.C.TX. PLAT RECORDS TRAVIS COUNTY TEXAS
  - D.R.T.C.TX. DEED RECORDS TRAVIS COUNTY TEXAS
  - P.O.B. POINT OF BEGINNING
  - P.O.R. POINT OF REFERENCE
  - ( ) RECORD INFORMATION
  - PROPERTY LINE
  - SIGN
  - FIRE HYDRANT
  - WATER VALVE
  - WATER METER
  - SPIGOT
  - SPRINKLER VALVE
  - ELECTRIC HANDHOLE
  - ELECTRIC JUNCTION BOX
  - LIGHT POLE
  - PULL BOX
  - TRANSFORMER
  - ELECTRIC MANHOLE
  - CLEANOUT
  - WASTE WATER MANHOLE
  - TELEPHONE PEDESTAL
  - CABLE PEDESTAL
  - TELEPHONE MANHOLE
  - POST
  - BORE
  - STORM SEWER MANHOLE
  - MANHOLE
  - CONTOUR LINE MAJOR
  - CONTOUR LINE MINOR
  - FIBER OPTIC CABLE
- NOTES:**
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  - POINT NUMBER 1 WAS HELD FOR ELEVATION AND A DIGITAL LEVEL WAS RUN TO DERIVE THE ELEVATIONS OF POINTS 2 - 8.
  - THIS SURVEY IS INTENDED FOR DESIGN PURPOSES ONLY AND DOES NOT REPRESENT A FULL BOUNDARY SURVEY.
  - DATE OF SURVEY, OCTOBER 2017

CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH
C1	86°40'37"	25.00'	37.82'	N69°20'51"W	34.32'
(C1)		(25.00')	(37.79')	(N68°40'32"W)	(34.29')
C2	36°03'15"	1156.99'	728.05'	N43°58'18"W	716.10'
C3	89°51'21"	25.00'	39.21'	N17°52'42"W	35.31'

LINE TABLE		
NUMBER	DIRECTION	LENGTH
L1	S45°16'12"E	86.64'
(L1)	(S45°05'54"E)	(86.70')
L2	N77°41'09"E	122.96'
(L2)	(N77°51'16"E)	(122.90')
L3	S71°18'55"W	74.57'
(L3)	(S71°35'02"W)	(74.61')
L4	S67°28'15"W	54.69'
(L4)	(S67°24'02"W)	(54.82')



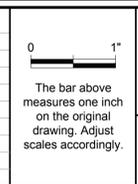
NOTE:  
EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHICAL SURVEY PERFORMED BY SURVEYING AND MAPPING, LLC DATED SEPT. 21, 2017.

**mwm Design Group**

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TBAE FIRM REGISTRATION NO.: 1452  
TSRE FIRM REGISTRATION NO.: F-14116  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**EXISTING CONDITIONS (SHEET 1)**

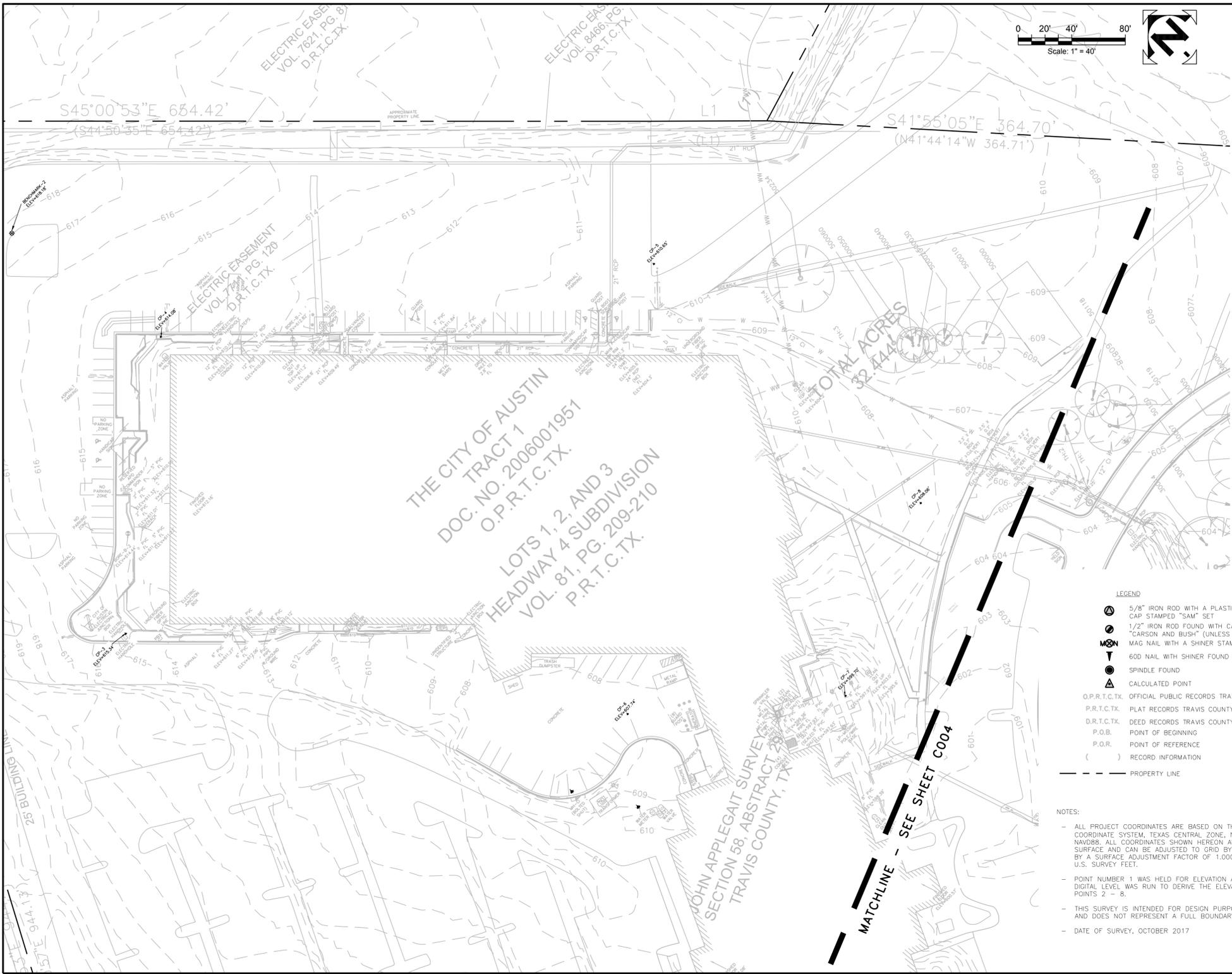
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1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C004**

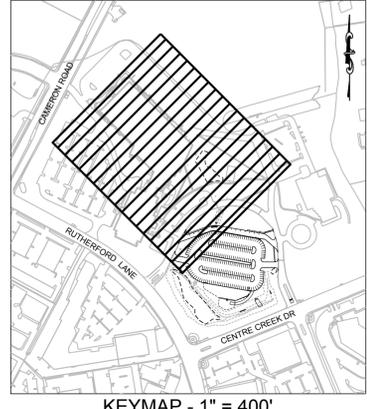
5 OF 44

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TREE TABLE					
POINT #	DESCRIPTION	TAG #	POINT #	DESCRIPTION	TAG #
30000	TR-12'LIVEOAK	3600	30038	TR-12'LIVEOAK	3561
30001	TR-27'LIVEOAK*	3599	30039	TR-5'8"BLACKLOTUS	3560
30002	TR-14'12"LIVEOAK	3598	30040	TR-10'CHINABERRY	3559
30003	TR-22'12"LIVEOAK*	3597	30041	TR-10'12'ASH	3558
30004	TR-9'LIVEOAK	3596	30042	TR-29'LIVEOAK*	3557
30005	TR-16'15"LIVEOAK	3595	30043	TR-14'LIVEOAK	3556
30006	TR-21'LIVEOAK	3594	30044	TR-10'LIVEOAK	3555
30007	TR-25'LIVEOAK*	3593	30045	TR-28'LIVEOAK*	3554
30008	TR-15'14"LIVEOAK	3592	30046	TR-8'ASH	3553
30009	TR-22'14'20'25'LIVEOAK*	3591	30047	TR-8'7'CHINABERRY	3552
30010	TR-22'17'21'LIVEOAK*	3590	30048	TR-14'12'5'8'CHINABERRY	3551
30011	TR-22'10'LIVEOAK*	3589	30049	TR-12'7'5'CHINABERRY	3550
30012	TR-15'LIVEOAK	3588	30050	TR-8'6'CHINABERRY	3548
30013	TR-21'LIVEOAK	3587	30051	TR-21'LIVEOAK	3548
30014	TR-21'LIVEOAK	3586	30052	TR-27'LIVEOAK*	3547
30015	TR-37'LIVEOAK*	3585	30053	TR-12'12'10'10'9'14'14'6'9'5'BLACKWILLOW	3546
30016	TR-18'LIVEOAK	3583	30054	TR-12'12'10'9'BLACKWILLOW	3545
30017	TR-21'LIVEOAK	3582	30057	TR-9'COTTONWOOD	3544
30018	TR-6'8'LIVEOAK	3581	30058	TR-9'CHINABERRY	3543
30019	TR-19'LIVEOAK	3580	30059	TR-3'4'5'8'CHINABERRY	3542
30020	TR-16'LIVEOAK	3579	30060	TR-13'COTTONWOOD	3541
30021	TR-11'LIVEOAK	3578	30061	TR-11'CHINABERRY	3540
30022	TR-23'LIVEOAK	3577	30062	TR-9'11'15'8'COTTONWOOD	3539
30023	TR-16'LIVEOAK	3576	30063	TR-11'COTTONWOOD	3538
30024	TR-19'LIVEOAK	3575	30064	TR-15'DEAD	3537
30025	TR-16'LIVEOAK	3574	50118	TR-13'LIVEOAK	403
30026	TR-24'LIVEOAK*	3573	50119	TR-15'LIVEOAK	405
30027	TR-18'LIVEOAK	3572	50120	TR-19'LIVEOAK	404
30028	TR-22'LIVEOAK	3571	50121	TR-12'14'LIVEOAK	402
30029	TR-20'LIVEOAK	3570	50234	TR-25'28'LIVEOAK	4595
30030	TR-29'LIVEOAK*	3569	500000	TR-16'LIVEOAK	
30031	TR-20'LIVEOAK	3568	500010	TR-15'LIVEOAK	
30032	TR-20'LIVEOAK	3567	500020	TR-6'12'LIVEOAK	334
30033	TR-20'LIVEOAK	3566	500030	TR-13'LIVEOAK	332
30034	TR-8'LIVEOAK	3565	500040	TR-12'LIVEOAK	330
30035	TR-8'LIVEOAK	3564	500050	TR-12'LIVEOAK	331
30036	TR-4'7'LIVEOAK	3563	500060	TR-22'LIVEOAK	329
30037	TR-10'LIVEOAK	3562			

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  - DATE OF SURVEY, OCTOBER 2017
- SIGN
  - FIRE HYDRANT
  - WATER VALVE
  - WATER METER
  - SPIGOT
  - SPRINKLER VALVE
  - ELECTRIC HANDHOLE
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NOTE:  
EXISTING TOPOGRAPHICAL SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHICAL SURVEY PERFORMED BY SURVEYING AND MAPPING, LLC DATED SEPT. 21, 2017.

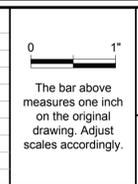


**mwm**  
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TBAE FIRM REGISTRATION NO.: 1452  
TSRF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**EXISTING CONDITIONS (SHEET 2)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

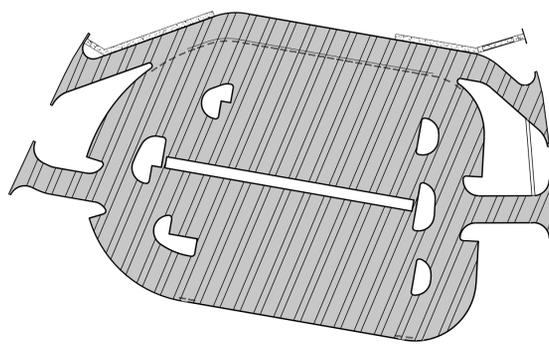
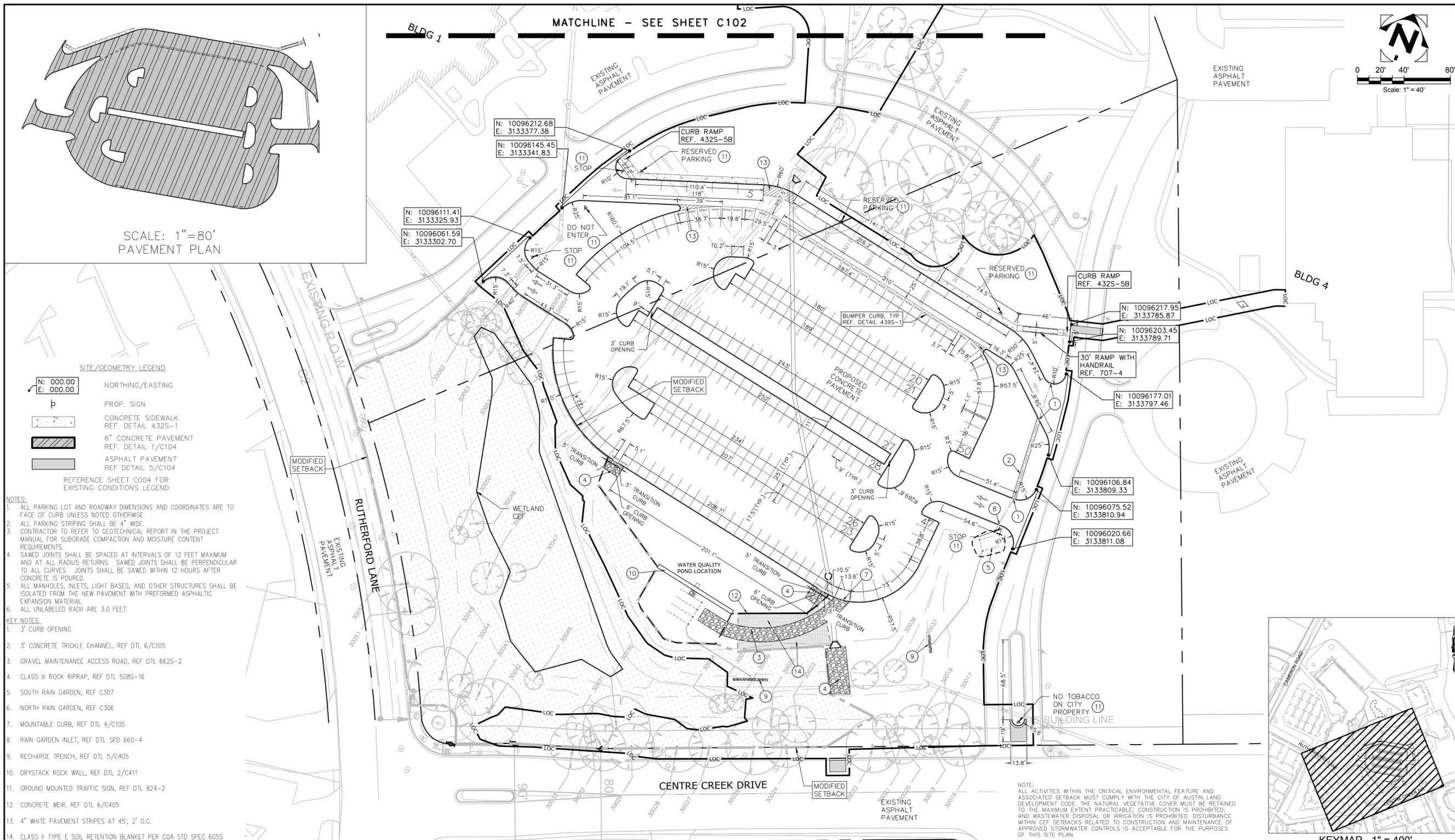
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JOB NO: 023-85C

C005

6 OF 44

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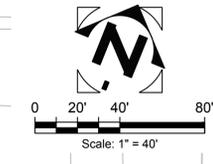
SCALE: 1"=80'  
PAVEMENT PLAN

**SITE/GEOMETRY LEGEND**

N: 000.00 E: 000.00	NORTHING/EASTING
p	PROP. SIGN
[Symbol]	CONCRETE SIDEWALK REF. DETAIL 432S-1
[Symbol]	6" CONCRETE PAVEMENT REF. DETAIL 1/C104
[Symbol]	ASPHALT PAVEMENT REF. DETAIL 5/C104

REFERENCE SHEET C004 FOR EXISTING CONDITIONS LEGEND

- NOTES:**
- ALL PARKING LOT AND ROADWAY DIMENSIONS AND COORDINATES ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
  - ALL PARKING STRIPING SHALL BE 4" WIDE.
  - CONTRACTOR TO REFER TO GEOTECHNICAL REPORT IN THE PROJECT MANUAL FOR SUBGRADE COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
  - SAWED JOINTS SHALL BE SPACED AT INTERVALS OF 12 FEET MAXIMUM AND AT ALL RADIUS RETURNS. SAWED JOINTS SHALL BE PERPENDICULAR TO ALL CURVES. JOINTS SHALL BE SAWED WITHIN 12 HOURS AFTER CONCRETE IS POURED.
  - ALL MANHOLES, INLETS, LIGHT BASES, AND OTHER STRUCTURES SHALL BE ISOLATED FROM THE NEW PAVEMENT WITH PREFORMED ASPHALTIC EXPANSION MATERIAL.
  - ALL UNLABELED RADII ARE 3.0 FEET.
- KEY NOTES:**
- 3' CURB OPENING
  - 3' CONCRETE TRICKLE CHANNEL, REF DTL 6/C105
  - GRAVEL MAINTENANCE ACCESS ROAD, REF DTL 662S-2
  - CLASS III ROCK RIPRAP, REF DTL 508S-16
  - SOUTH RAIN GARDEN, REF C307
  - NORTH RAIN GARDEN, REF C306
  - MOUNTABLE CURB, REF DTL 4/C105
  - RAIN GARDEN INLET, REF DTL SPD 660-4
  - RECHARGE TRENCH, REF DTL 5/C405
  - DRystack ROCK WALL, REF DTL 2/C411
  - GROUND MOUNTED TRAFFIC SIGN, REF DTL 824-2
  - CONCRETE WEIR, REF DTL 6/C405
  - 4" WHITE PAVEMENT STRIPES AT 45°, 2' O.C.
  - CLASS II TYPE E SOIL RETENTION BLANKET PER COA STD SPEC 6055



NOTE: ALL ACTIVITIES WITHIN THE CRITICAL ENVIRONMENTAL FEATURE AND ASSOCIATED SETBACK MUST COMPLY WITH THE CITY OF AUSTIN LAND DEVELOPMENT CODE. THE NATURAL VEGETATIVE COVER MUST BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE. CONSTRUCTION IS PROHIBITED, AND WASTEWATER DISPOSAL OR IRRIGATION IS PROHIBITED. DISTURBANCE WITHIN CEF SETBACKS RELATED TO CONSTRUCTION AND MAINTENANCE OF APPROVED STORMWATER CONTROLS IS ACCEPTABLE FOR THE PURPOSES OF THIS SITE PLAN.



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TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-14116  
TBLPS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY

0 1"

The bar above measures one inch on the original drawing. Adjust scales accordingly.

**DIMENSIONAL CONTROL PLAN (SHEET 1)**

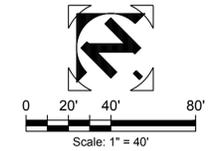
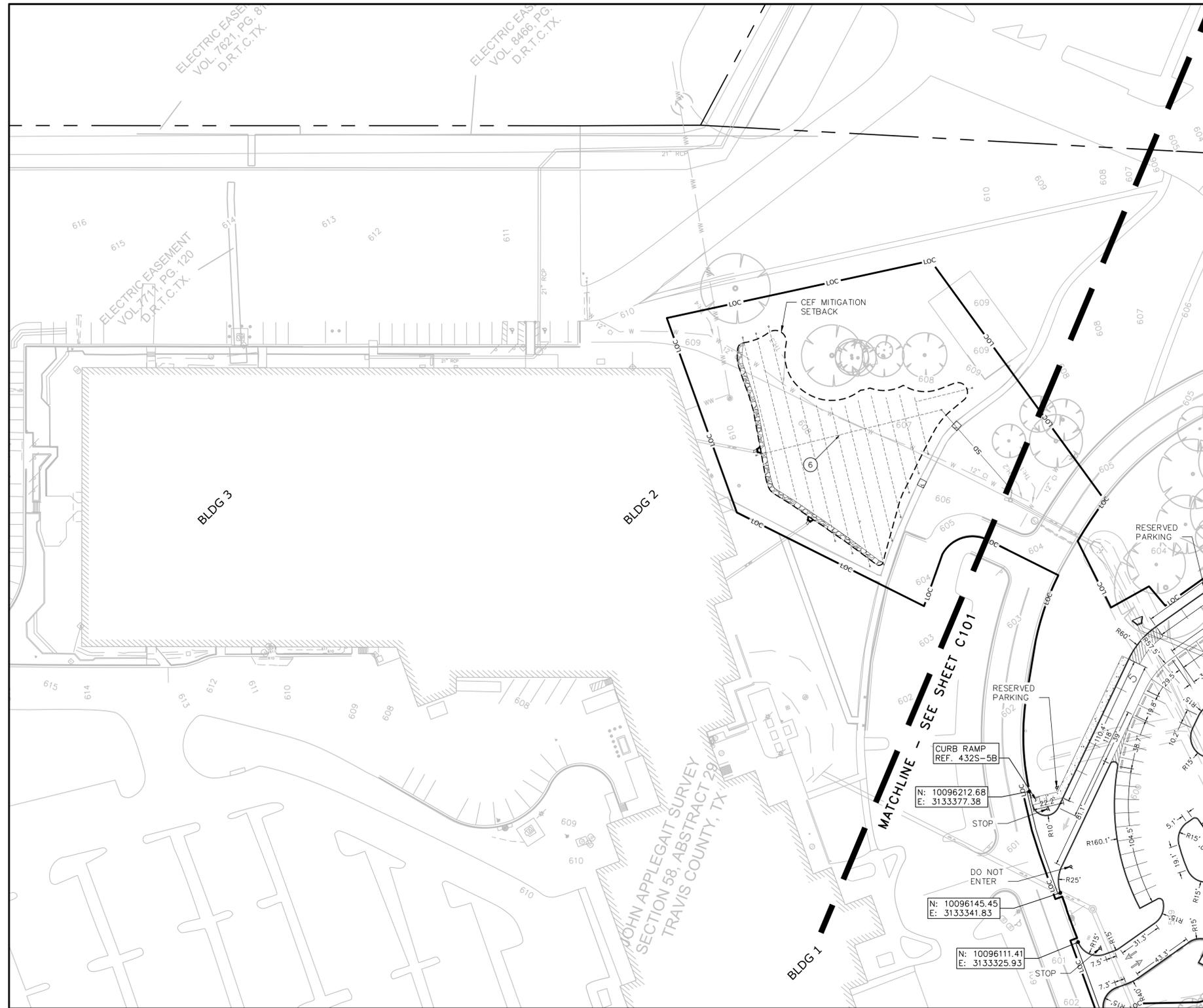
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C101**

8 OF 44

File: Y:\023-85C\_Rutherford\_Park\_Lot\_CAD\Sheets\02385C-Site\_PLAN\_Sheet1.dwg 22x34

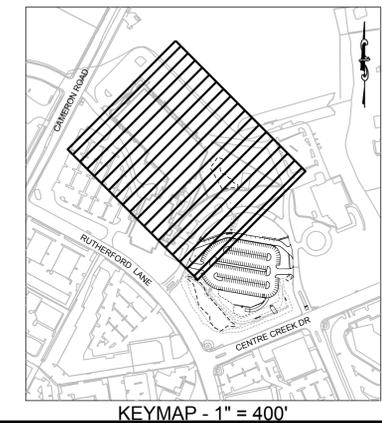


**SITE/GEOMETRY LEGEND**

N: 000.00 E: 000.00	NORTHING/EASTING
b	PROP. SIGN
[Pattern]	CONCRETE SIDEWALK REF. DETAIL 432S-1
[Pattern]	6" CONCRETE PAVEMENT REF. DETAIL 1/C104
[Pattern]	ASPHALT PAVEMENT REF. DETAIL 5/C104

REFERENCE SHEET C004 FOR  
EXISTING CONDITIONS LEGEND

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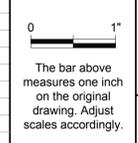


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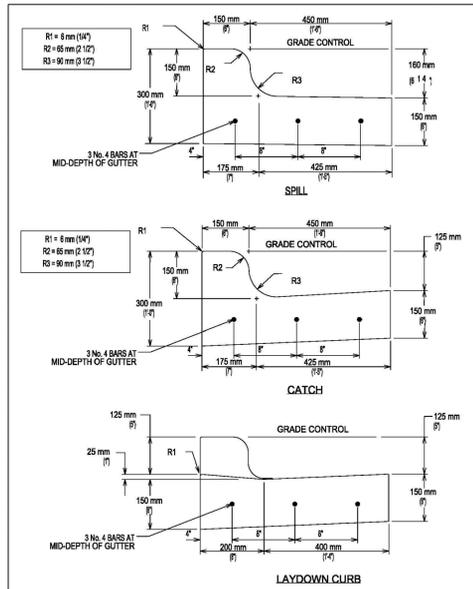
**DIMENSIONAL CONTROL PLAN (SHEET 2)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

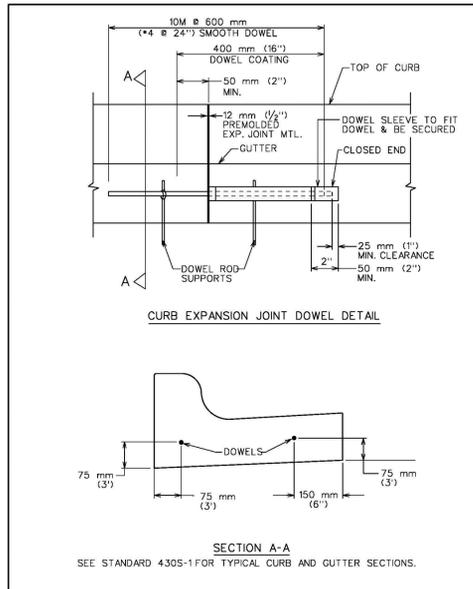
PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C102**  
9 OF 44

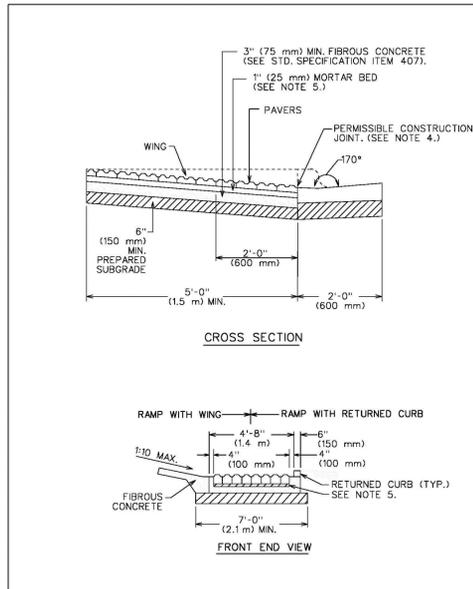
File: Y:\023-85C\_Rutherford\_Park\_Lot\CAD\Sheets\02385C-SITE\_PLAN\_Sheet2.dwg 22x34



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	REINFORCED CURB AND GUTTER SECTION	STANDARD NO. 430S-2
RECORD COPY SIGNED BY SAM ANGOORI	01/04/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



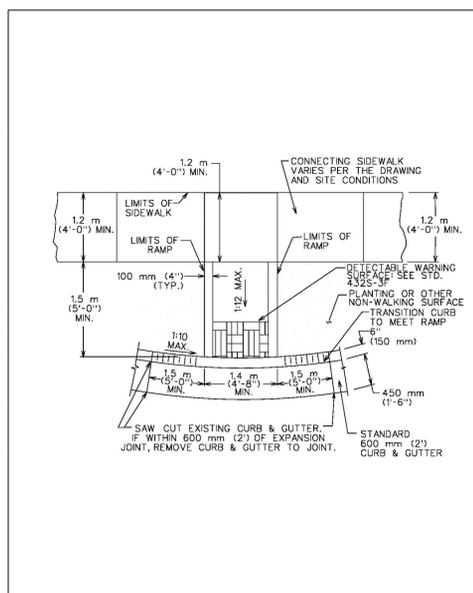
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CURB EXPANSION JOINT DOWEL DETAIL	STANDARD NO. 430S-3
RECORD COPY SIGNED BY UNO RIVERA	9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



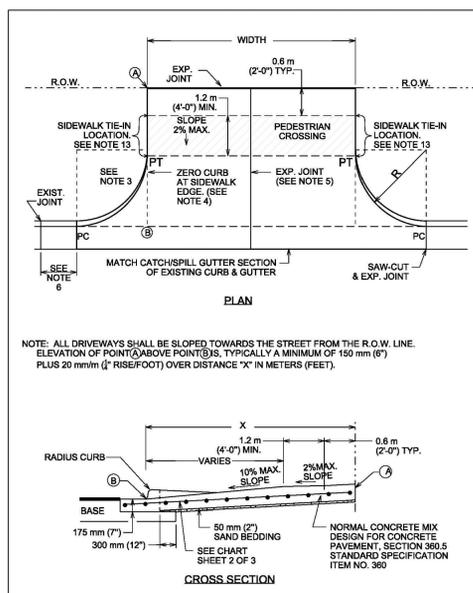
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNING-PAVER (PRIVATE PROPERTY)	STANDARD NO. 432S-2B
RECORD COPY SIGNED BY BILL GARDNER	06/21/07 ADOPTED	1 OF 2



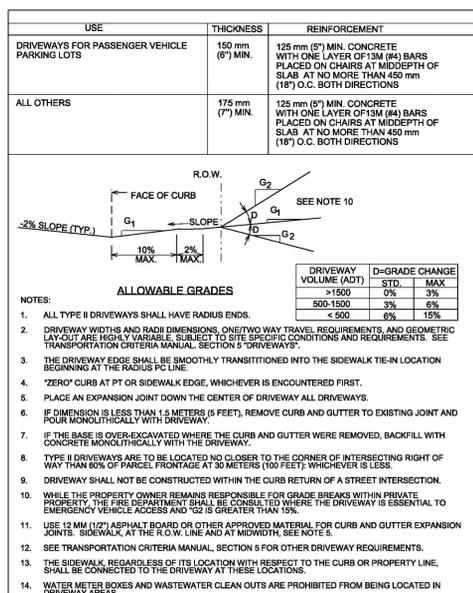
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNING-PAVER (PRIVATE PROPERTY)	STANDARD NO. 432S-2B
RECORD COPY SIGNED BY BILL GARDNER	06/21/07 ADOPTED	2 OF 2



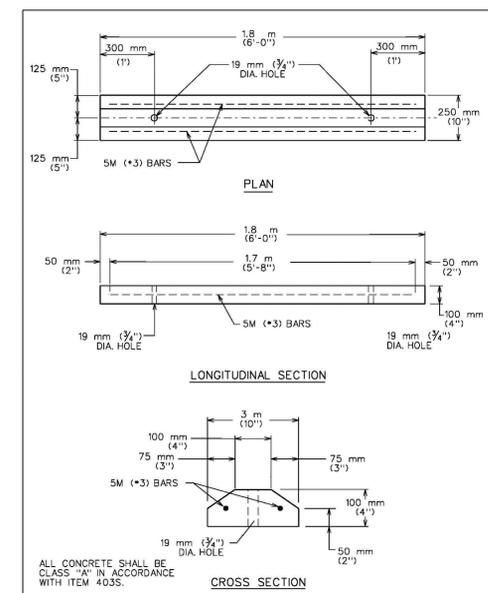
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE 1B SIDEWALK CURB RAMP	STANDARD NO. 432S-5B
RECORD COPY SIGNED BY BILL GARDNER	9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE II DRIVEWAY	STANDARD NO. 433S-2
RECORD COPY SIGNED BY CUONG TRAN	02/24/10 ADOPTED	1 OF 2



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE II DRIVEWAY	STANDARD NO. 433S-2
RECORD COPY SIGNED BY CUONG TRAN	02/24/10 ADOPTED	2 OF 2



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	PARKING LOT BUMPER CURB	STANDARD NO. 439S-1
RECORD COPY SIGNED BY BILL GARDNER	3/15/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



NO.	DATE	DESCRIPTION	BY

0 1"

The bar above measures one inch on the original drawing. Adjust scales accordingly.

**SITE DETAILS  
(SHEET 1)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

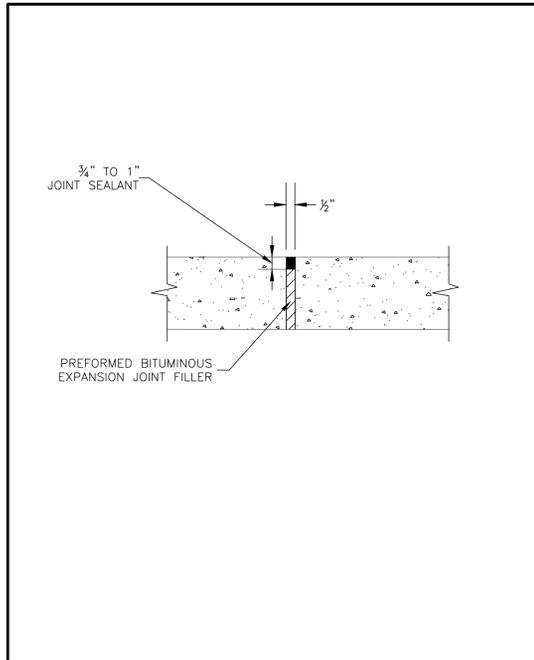
**C103**

10 OF 44

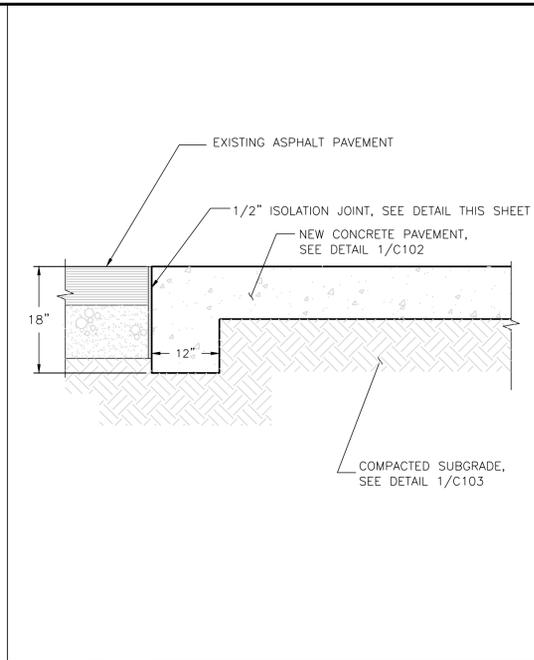
85-04-1926

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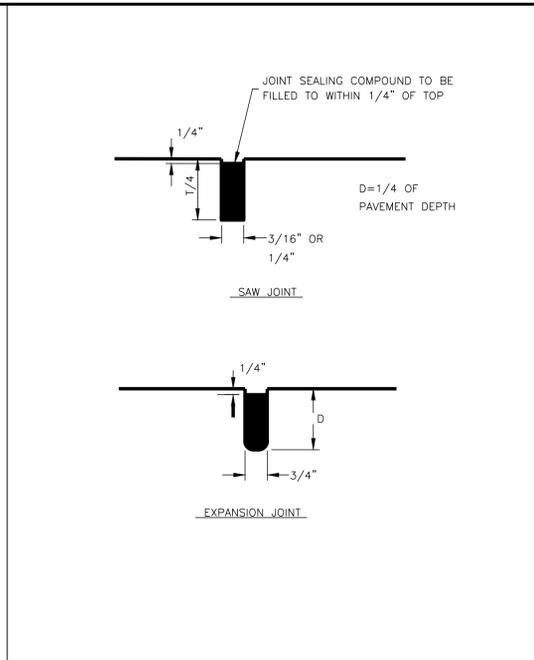




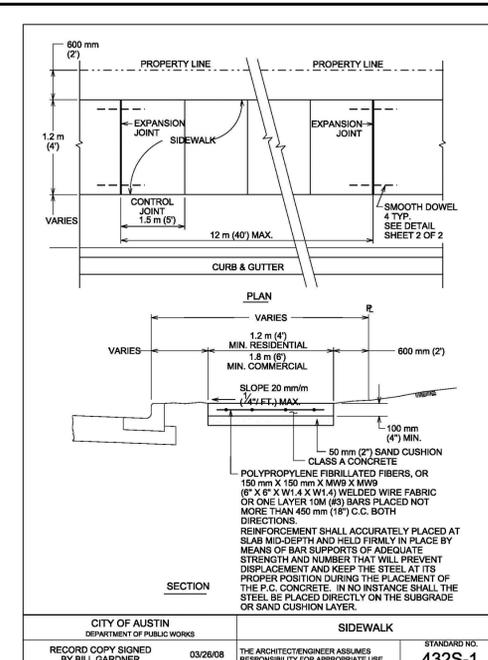
**1 ISOLATION JOINT DETAIL**  
 C105 SCALE: NTS



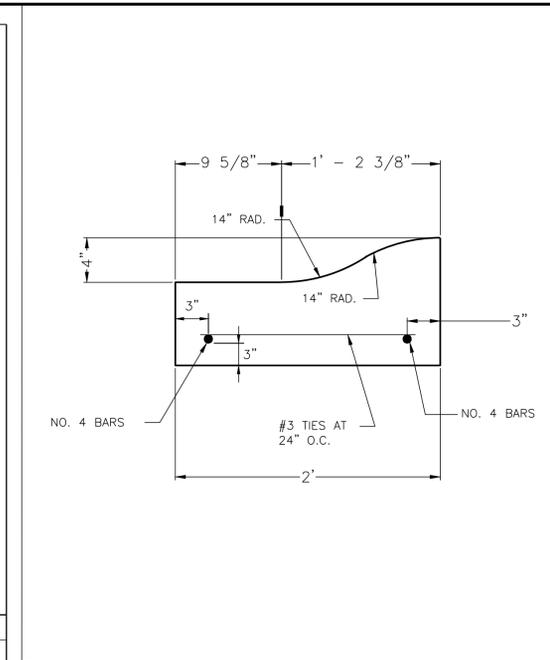
**2 PAVEMENT JUNCT. DETAIL CONCRETE TO ASPHALT**  
 C105 SCALE: NTS



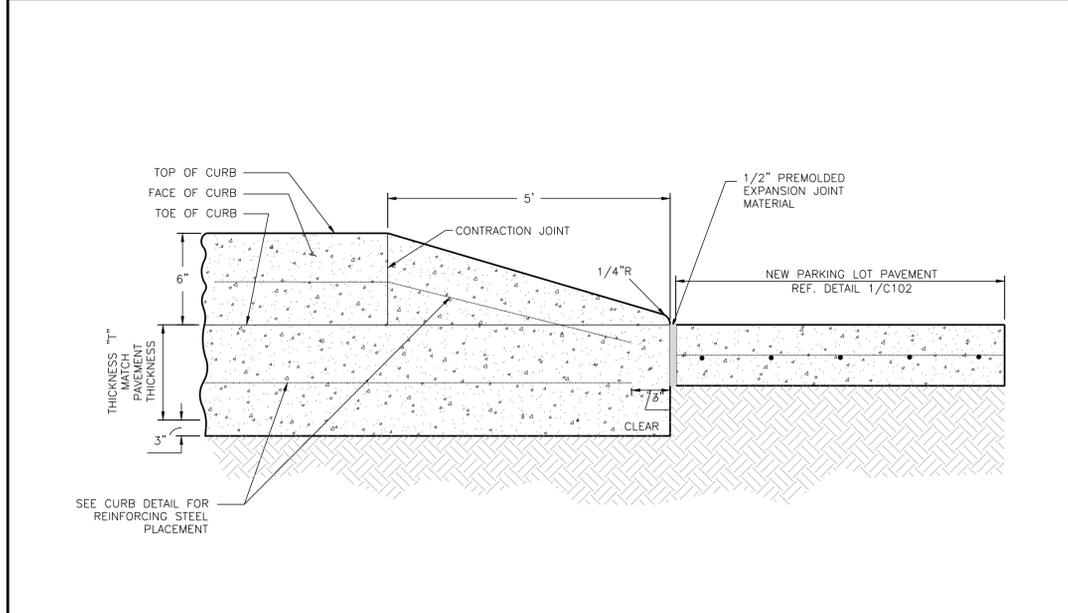
**3 JOINT SEALANT DETAIL**  
 C105 SCALE: NTS



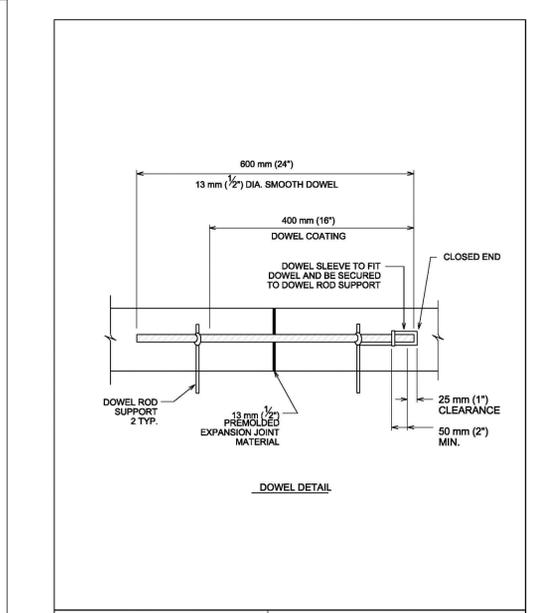
**4 MOUNTABLE CURB DETAIL**  
 C105 SCALE: NTS



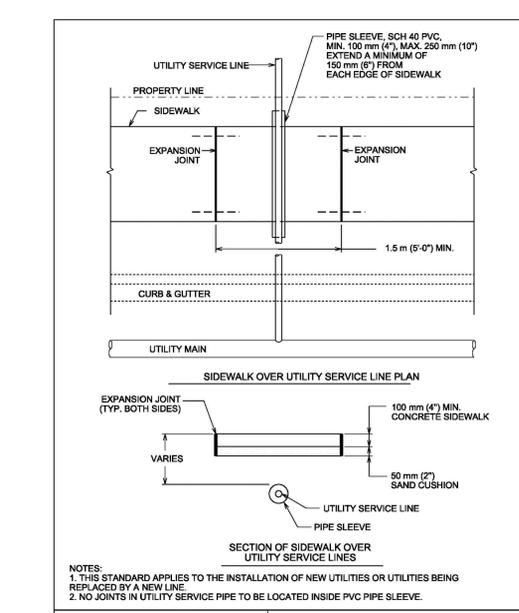
**5 TRANSITION CURB**  
 C104 SCALE: NTS



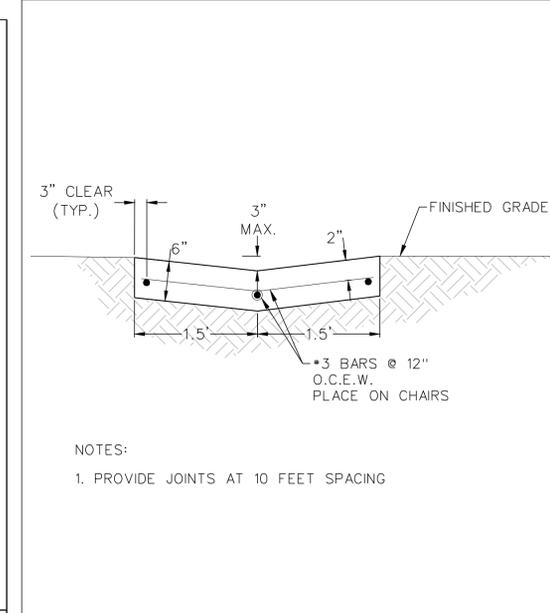
**6 CONCRETE TRICKLE CHANNEL DETAIL**  
 C105 SCALE: NTS



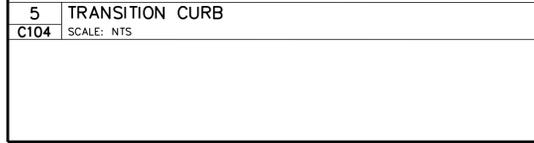
**7 JOINT SEALANT DETAIL**  
 C105 SCALE: NTS



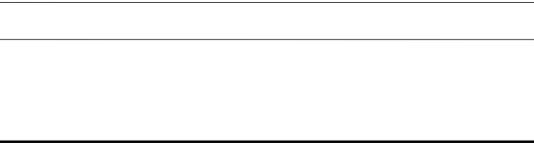
**8 MOUNTABLE CURB DETAIL**  
 C105 SCALE: NTS



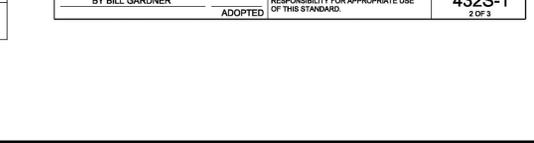
**9 TRANSITION CURB**  
 C104 SCALE: NTS



**5 TRANSITION CURB**  
 C104 SCALE: NTS



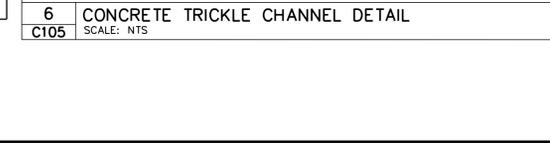
**6 CONCRETE TRICKLE CHANNEL DETAIL**  
 C105 SCALE: NTS



**7 JOINT SEALANT DETAIL**  
 C105 SCALE: NTS



**8 MOUNTABLE CURB DETAIL**  
 C105 SCALE: NTS



**9 TRANSITION CURB**  
 C104 SCALE: NTS

STATE OF TEXAS  
 JASON A. BASS  
 109708  
 09/10/2019

**mwm Design Group**  
 305 East Huntland Drive  
 Suite 200  
 Austin, Texas 78752  
 p: 512.453.0767  
 f: 512.453.1734  
 TBAE FIRM REGISTRATION NO.: 1452  
 TSPRE FIRM REGISTRATION NO.: F-1416  
 TBLPS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY

0 1"  
 The bar above measures one inch on the original drawing. Adjust scales accordingly.

**SITE DETAILS (SHEET 3)**  
 Rutherford Lane Campus Parking Lot Improvements  
 1520 Rutherford Lane  
 Austin, Texas 78754

**Street SUFFIX BLK**

GROUND MOUNTED STREET NAME SIGN

NOTE: (2) ONE-SIDED D3 SIGNS ARE REQUIRED FOR EACH DIRECTION OF TRAFFIC ON EACH POLE.

A	B	C	D	E	F	T
24"	9"	12"	3/4"	8"	12"	0.08"
30"	9"	12"	3/4"	8"	15"	0.08"
36"	9"	12"	3/4"	8"	18"	0.08"
42"	9"	12"	3/4"	8"	21"	0.08"
48"	9"	12"	3/4"	8"	24"	0.08"
54"	9"	12"	3/4"	8"	27"	0.08"

**SIGN TO POLE INSTALLATION**

HEIGHT	9"
LENGTH	24" MIN. 54" MAX. 6" INCREMENTS OF LENGTH
THICKNESS	0.08"
SUBSTRATE	ALUMINUM ALLOY, 6061-T-6, OR TYPE IV 5052-H38 (ASTM B-209)
SIGN FACE MATERIALS	GREEN FILM OVER HIGH INTENSITY PRISMATIC SHEETING
LEGENDS AND SYMBOLS	SERIES D (SUAL) SERIES C OR B FOR MAXIMUM LENGTH SIGN BLANK, IF NECESSARY
COLOR	WHITE LEGEND ON GREEN BACKGROUND WITH 1/4" WHITE BORDER

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS  
*Rui Dunchard-Jones 4/4/11*  
 ADOPTED

GROUND MOUNTED TRAFFIC AND STREET NAME SIGNS - SOIL  
 STANDARD NO. 824-2  
 1 OF 3

TYPE "U" MOUNT PERFORATED SQUARE METAL TUBING (DRIVEABLE)

VIEW K-K

MULTI-DIRECTIONAL ANCHOR FOR USE IN SOIL

SOIL LIGHTED: 12 GAUGE 2" SQUARE x 30"

WING: 10 GAUGE 4" x 12" ASTM A575 COM. QUALITY WELDED TO ALL 4 CORNERS STARTING 3" UP FROM TOP

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS  
*Rui Dunchard-Jones 4/4/11*  
 ADOPTED

GROUND MOUNTED TRAFFIC AND STREET NAME SIGNS - SOIL  
 STANDARD NO. 824-2  
 2 OF 3

TYPE "U" MOUNT PERFORATED SQUARE METAL TUBING (DRIVEABLE)

VIEW K-K

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS  
*Rui Dunchard-Jones 4/4/11*  
 ADOPTED

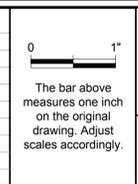
GROUND MOUNTED TRAFFIC AND STREET NAME SIGNS - CONCRETE  
 STANDARD NO. 824-2  
 3 OF 3

**mwm Design Group**

305 East Huntland Drive  
 Suite 200  
 Austin, Texas 78752  
 p: 512.453.0767  
 f: 512.453.1734

TBAE FIRM REGISTRATION NO.: 1452  
 TSPR FIRM REGISTRATION NO.: F-14116  
 TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**SITE DETAILS (SHEET 4)**

Rutherford Lane Campus Parking Lot Improvements  
 1520 Rutherford Lane  
 Austin, Texas 78754

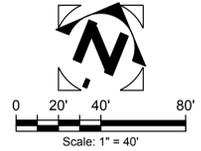
PLOTTED: 08/06/2019  
 JOB NO: 023-85C

**C106**

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File: Y:\023-85C-Rutherford\_Park\_Lot\CAD\Streets\02385C-SITE-DETAILS.dwg 22:34

MATCHLINE - SEE SHEET C201



**EROSION/SEDIMENTATION LEGEND**

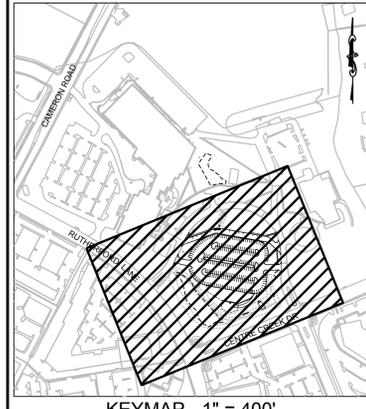
- S SILT FENCE  
REF: COA DET. 642S-1
- 000 PROP. CONTOUR
- T-T-T-T TREE PROTECTION FENCE  
REF: COA DET. 610S-1, 610S-2, 610S-4
- LOC LIMITS OF CONSTRUCTION
- RB-RB-RB-RB REINFORCED ROCK BERM  
REF: COA DET. 639S-1
- TFD-TFD-TFD TRIANGULAR FILTER DIKE  
REF: COA DET. 628S
- FLOW ARROW
- EXIST. TREE TO BE REMOVED  
(REF LANDSCAPE FOR TREE REMOVAL AND MITIGATION)
- STABILIZED CONSTRUCTION ENTRANCE  
REF: COA DET. 641S-1
- REFERENCE SHEET C004 FOR EXISTING CONDITIONS LEGEND

**NOTES:**

1. CONTRACTOR TO ADJUST EROSION CONTROL AS REQUIRED FOR FIELD CONDITIONS TO MEET THE INTENT OF THE CONSTRUCTION DOCUMENTS AND SWPPP.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
3. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY.
4. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
5. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES (PER ECM 1.4.8.C.) DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
6. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY VEGETATION, MULCH, TARP OR REVEGETATION.
7. PRIOR TO EXCAVATION WITHIN TREE DRIP LINES, OR THE REMOVAL OF OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
  - A) IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING, AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH FOUR (4) INCHES OF ORGANIC MULCH TO BE PRODUCED ON SITE, TO MINIMIZE SOIL COMPACTION.
  - B) PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
  - C) WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY AS NECESSARY DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
  - D) WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
8. THE STAGING AND SPOILS AREA SHALL ONLY BE ALLOWED DURING THE CONSTRUCTION PERIOD. NO SPOILS SHALL REMAIN STAGED AFTER COMPLETION OF THE PROJECT.
9. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE GRASSES (REFER TO NOTE SHEET FOR SPECS). ALL DISTURBED AREAS WITH SLOPES 5:1 OR STEEPER, WHICH ARE NOT ARMORED OTHERWISE, SHALL HAVE A SOIL RETENTION BLANKET (CURLIX II WITH FIBERNET OR APPROVED EQUAL) INSTALLED TO ASSIST WITH REVEGETATION.
10. CONCRETE REMOVAL SHALL OCCUR AT NEAREST JOINT.
11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION.
12. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION.
13. REFER TO DEMOLITION ITEMS OF OTHER DISCIPLINES WITHIN THOSE DISCIPLINES' DOCUMENTS.
14. A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
15. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.

**KEY NOTES:**

1. ADD PLANKING TO TREE TRUNKS PER COA DET 610S-1, 610S-4
2. CLASS II TYPE E SOIL RETENTION BLANKET PER COA STD SPEC 605S



**mwm**  
Design Group

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TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY

**DEMOLITION, EROSION/SEDIMENTATION CONTROL,  
& TREE PROTECTION PLAN (SHEET 1)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

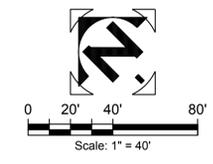
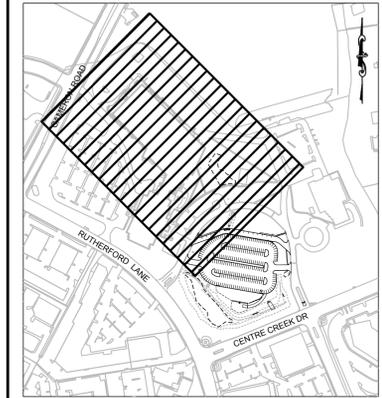
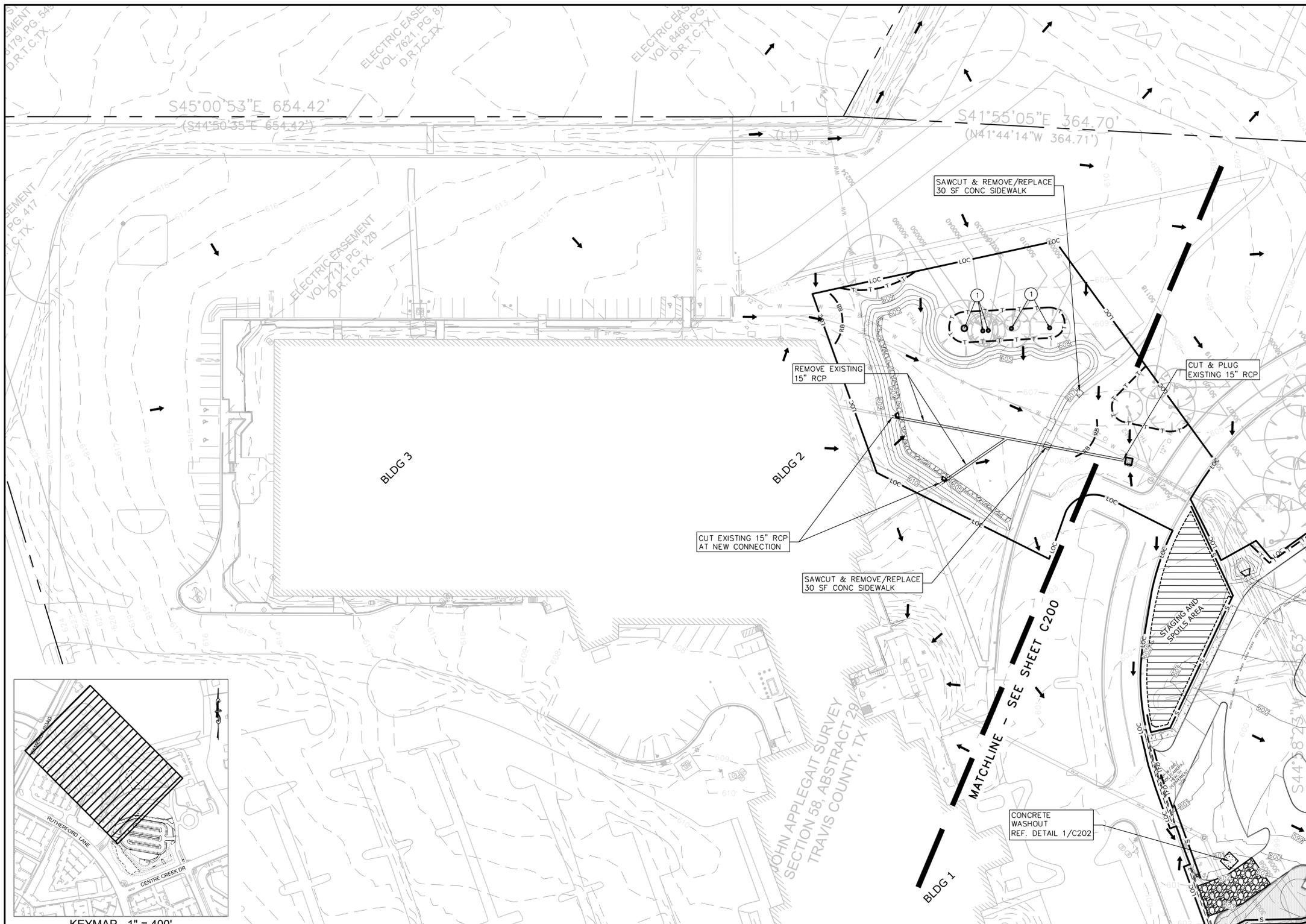
PLOTTED: 08/06/2019  
JOB NO: 023-85C

C200

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85-04-1926

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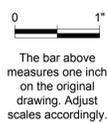


- EROSION/SEDIMENTATION LEGEND**
- S SILT FENCE  
REF: COA DET. 642S-1
  - 000 PROP. CONTOUR
  - T-T-T-T TREE PROTECTION FENCE  
REF: COA DET. 610S-1, 610S-2, 610S-4
  - LOC LIMITS OF CONSTRUCTION
  - RB-RB-RB-RB REINFORCED ROCK BERM  
REF: COA DET. 639S-1
  - TFD-TFD-TFD TRIANGULAR FILTER DIKE  
REF: COA DET. 628S
  - FLOW ARROW
  - EXIST. TREE TO BE REMOVED  
(REF LANDSCAPE FOR TREE REMOVAL AND MITIGATION)
  - STABILIZED CONSTRUCTION ENTRANCE  
REF: COA DET. 641S-1
- REFERENCE SHEET C004 FOR EXISTING CONDITIONS LEGEND

- NOTES:**
1. CONTRACTOR TO ADJUST EROSION CONTROL AS REQUIRED FOR FIELD CONDITIONS TO MEET THE INTENT OF THE CONSTRUCTION DOCUMENTS AND SWPPP.
  2. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
  3. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY.
  4. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
  5. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES (PER ECM 1.4.8.C.) DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
  6. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION.
  7. PRIOR TO EXCAVATION WITHIN TREE DRIP LINES, OR THE REMOVAL OF OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
    - A) IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING, AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH FOUR (4) INCHES OF ORGANIC MULCH TO BE PRODUCED ON SITE, TO MINIMIZE SOIL COMPACTION.
    - B) PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
    - C) WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY AS NECESSARY DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
    - D) WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
  8. THE STAGING AND SPOILS AREA SHALL ONLY BE ALLOWED DURING THE CONSTRUCTION PERIOD. NO SPOILS SHALL REMAIN STAGED AFTER COMPLETION OF THE PROJECT.
  9. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE GRASSES (REFER TO NOTE SHEET FOR SPECS). ALL DISTURBED AREAS WITH SLOPES 5:1 OR STEEPER, WHICH ARE NOT ARMORED OTHERWISE, SHALL HAVE A SOIL RETENTION BLANKET (CUREX II WITH FIBERNET OR APPROVED EQUAL) INSTALLED TO ASSIST WITH REVEGETATION.
  10. CONCRETE REMOVAL SHALL OCCUR AT NEAREST JOINT.
  11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION.
  12. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION.
  13. REFER TO DEMOLITION ITEMS OF OTHER DISCIPLINES WITHIN THOSE DISCIPLINES' DOCUMENTS.
  14. A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
  15. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.

- KEY NOTES:**
1. ADD PLANKING TO TREE TRUNKS PER COA DET 610S-1, 610S-4
  2. CLASS II TYPE E SOIL RETENTION BLANKET PER COA STD SPEC 6055

NO.	DATE	DESCRIPTION	BY



**DEMOLITION, EROSION/SEDIMENTATION CONTROL,  
& TREE PROTECTION PLAN (SHEET 2)**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

C201

15 OF 44

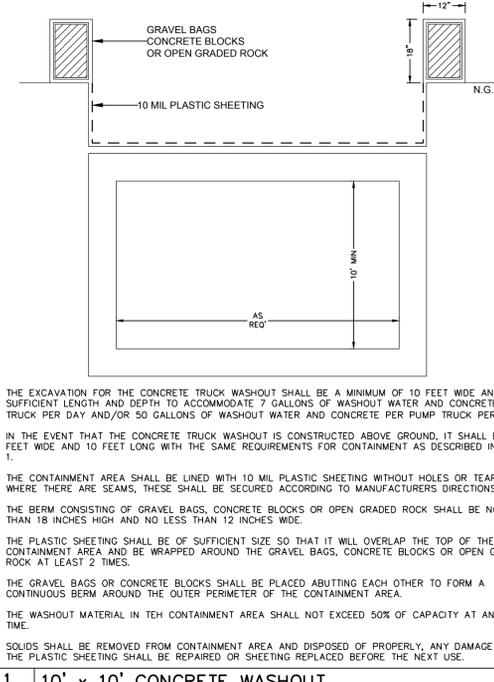
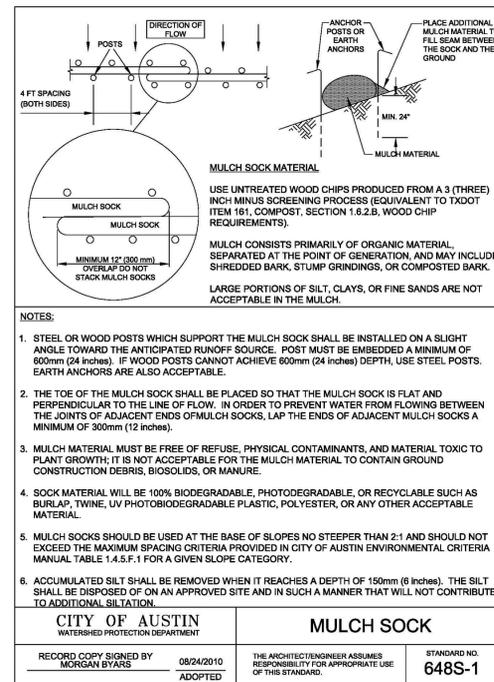
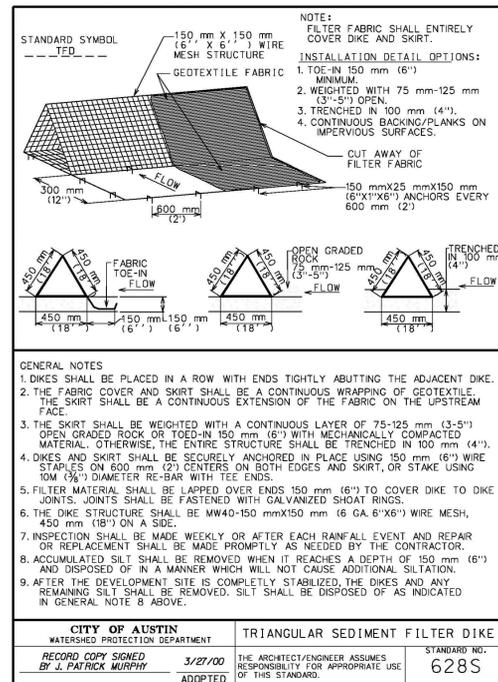
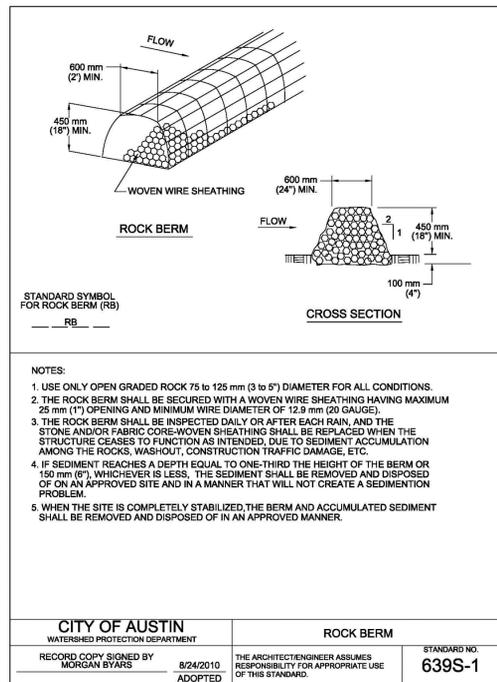
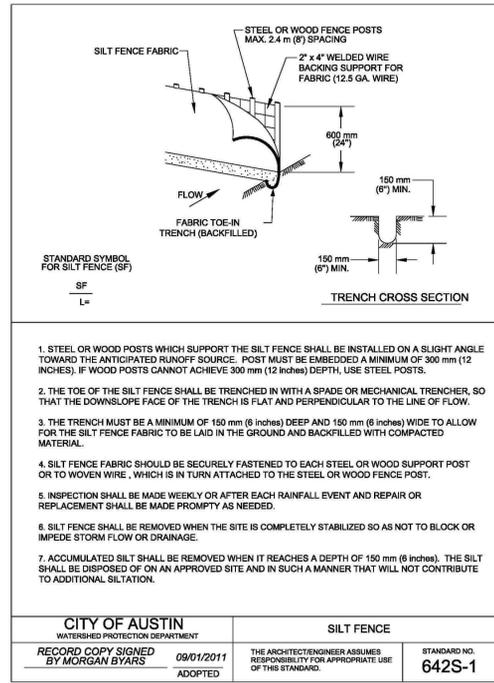
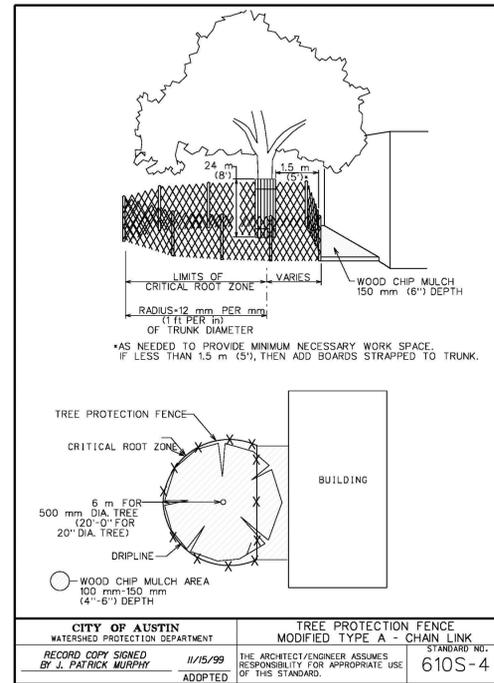
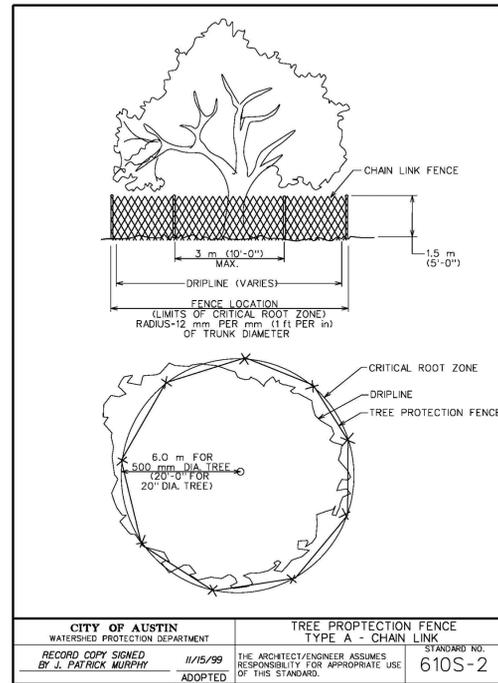
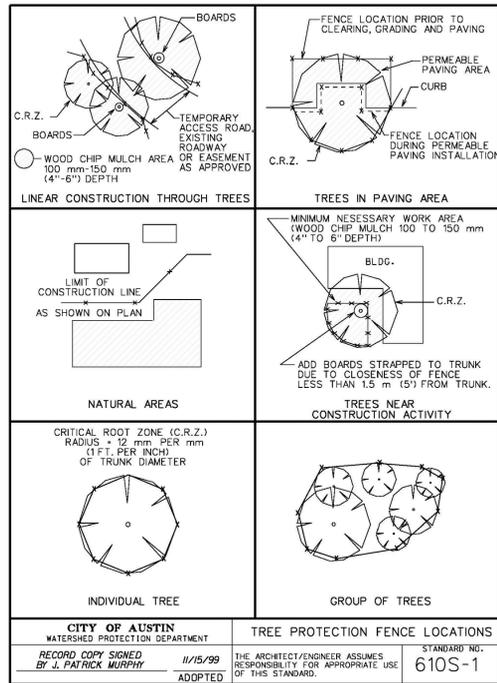




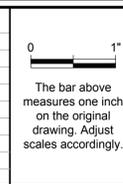
305 East Huntland Drive  
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f: 512.453.1734

TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

File: Y:\023-85C\_Ruther\_Park\_Lot\CAD\Sheets\02385C-ESC-&-TREE\_PROTECTION.dwg 22x34



NO.	DATE	DESCRIPTION	BY



**EROSION/SEDIMENTATION CONTROL, & TREE PROTECTION DETAILS (SHEET 1)**

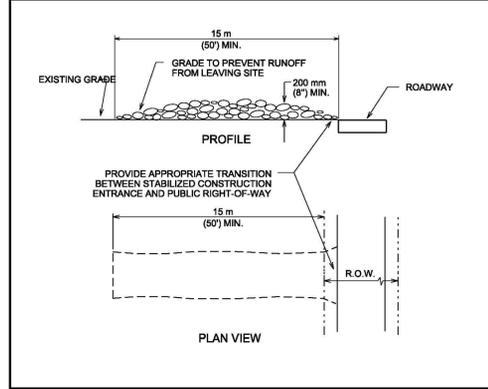
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C202**

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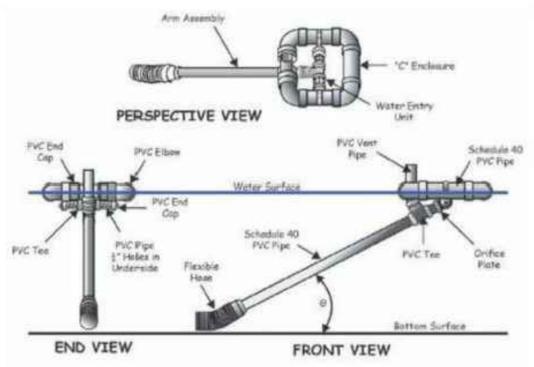
File: Y:\023-85C\_Rutherford\_Park\_Lot\_CAD\_Sheets\02385C-ESC\_&\_TREE\_PROTECTION\_DETAILS.dwg 22:34



**NOTES:**

1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY	5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	641S-1



1 SEDIMENT BASIN SKIMMER  
C203 SCALE: NTS

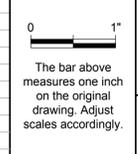


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TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**EROSION/SEDIMENTATION CONTROL,  
& TREE PROTECTION DETAILS  
(SHEET 2)**

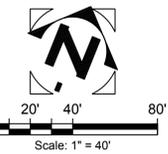
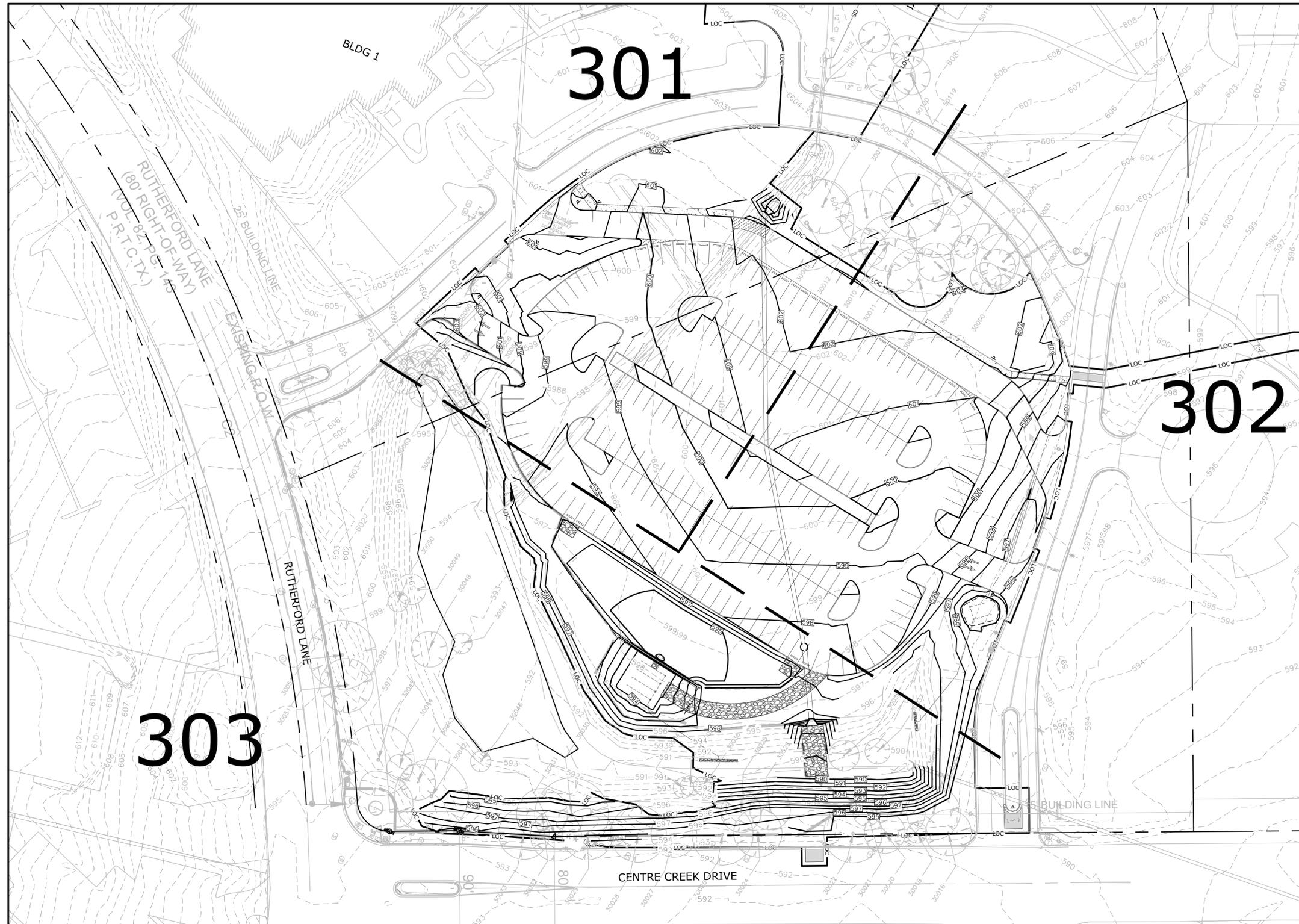
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C203**

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File: Y:\023-85C\_Rutherford\_Lane\_Campus\_Parking\_Lot\_Improvements\02385C-ESC\_&\_TREE\_PROTECTION\_DETAILS.dwg 22,34



**GRADING LEGEND**

	PROP. CONTOUR
	PROP. SPOT ELEVATION
	EXIST. SPOT ELEVATION
	PROP. TOP OF CURB AND GUTTER ELEVATIONS
	EXIST. TOP OF CURB AND GUTTER ELEVATIONS
	PROP. TOP OF WALL ELEVATION
	PROP. TOP OF GRATE ELEVATION
	PROP. FLOWLINE ELEVATION
	PROP. HIGH POINT

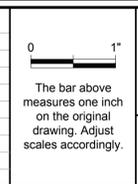
- NOTES:**
- EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY S.A.M., INC DATED 10/18/2017.
  - POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
  - NO ABRUPT CHANGE OF GRADE SHALL OCCUR IN THE DRIVEWAYS, PARKING AREAS OR SIDEWALKS.
  - UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM THE PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
  - CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
  - ALL CONSTRUCTION AREAS WITHIN THE SITE SHALL BE STRIPPED OF VEGETATION AND LOOSE TOPSOIL. ANY POCKETS OF DEBRIS ENCOUNTERED SHOULD ALSO BE REMOVED.
  - NON-EXPANSIVE SELECT FILL SHOULD BE UTILIZED FOR ALL FILL APPLICATIONS WITHIN THE PARKING LOT LIMITS. THE SELECT FILL SHOULD CONSIST OF CLASS A FILL PER CITY OF AUSTIN SPECIFICATION ITEM 130S. THE SELECT FILL SHOULD BE PLACED SO THAT COMPACTED LIFTS DO NOT EXCEED 8 INCHES IN LOOSE THICKNESS. EACH LIFT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY TxDOT METHOD TEX--114-E.
  - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY OR CROSSING ADJACENT STREETS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS THAT WASH OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS.
  - IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING AT NO ADDITIONAL COST TO THE OWNER.
  - SIDEWALKS SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.

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TBEF FIRM REGISTRATION NO.: F-14116  
TBLPS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**GRADING PLAN - OVERALL**

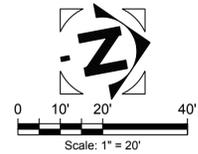
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C300**

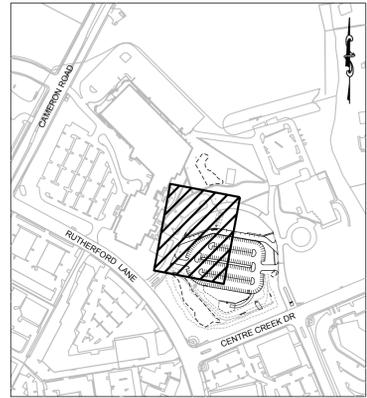
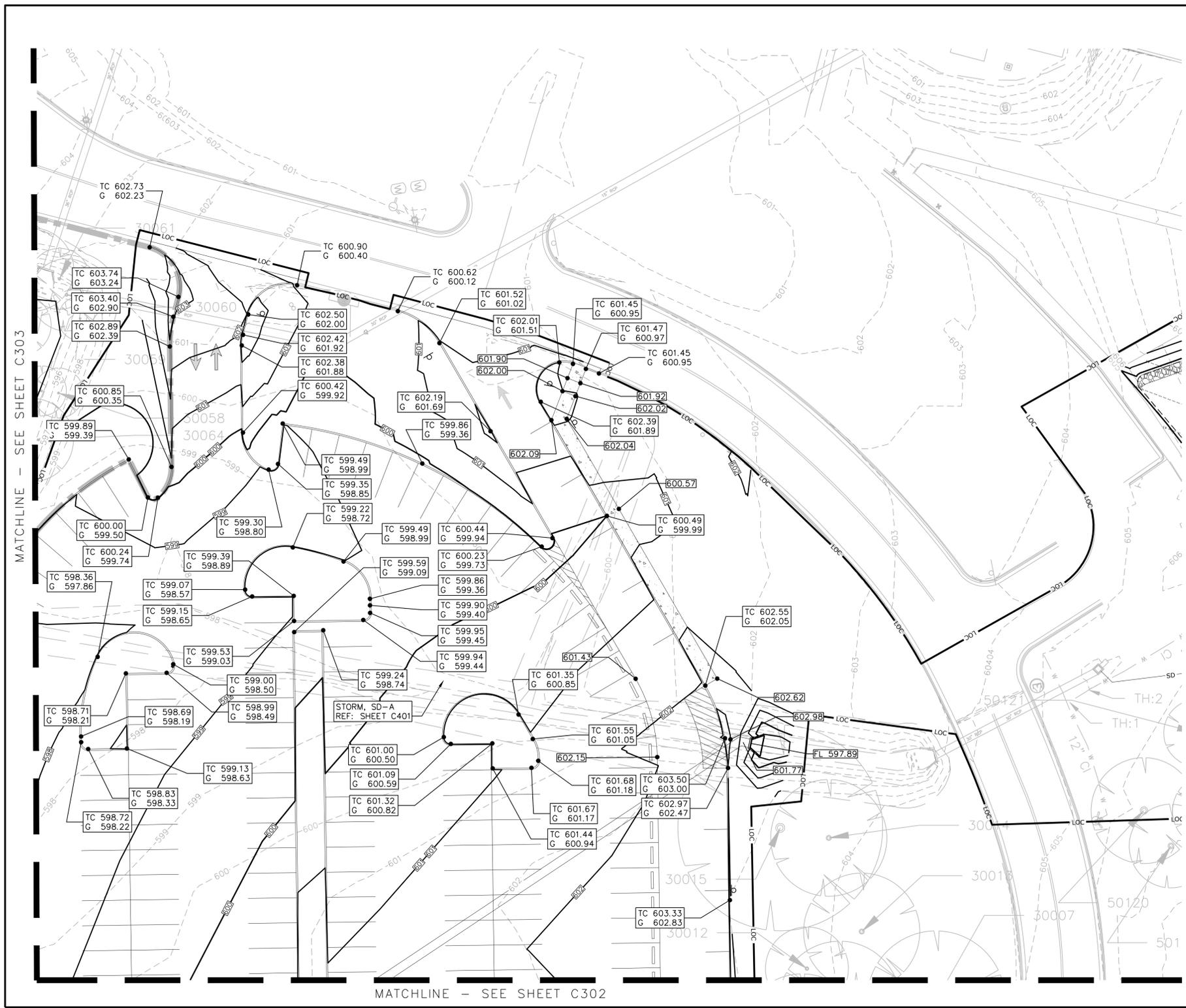
18 OF 44

File: Y:\023-85C\_Rutherford\_Park\_Lot\CAD\Sheets\02385C-P-GRADE\_Overall.dwg 22x34



- GRADING LEGEND**
- PROP. CONTOUR
  - PROP. SPOT ELEVATION
  - EXIST. SPOT ELEVATION
  - PROP. TOP OF CURB AND GUTTER ELEVATIONS
  - EXIST. TOP OF CURB AND GUTTER ELEVATIONS
  - PROP. TOP OF WALL ELEVATION
  - PROP. TOP OF GRATE ELEVATION
  - PROP. FLOWLINE ELEVATION
  - PROP. HIGH POINT

REFERENCE SHEET C300 FOR GRADING NOTES.

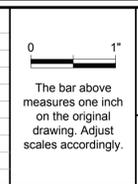


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TBAE FIRM REGISTRATION NO.: 1452  
TBE FIRM REGISTRATION NO.: F-14116  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**GRADING PLAN - WEST VIEW**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

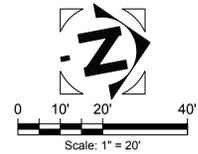
PLOTTED: 08/06/2019  
JOB NO: 023-85C

C301

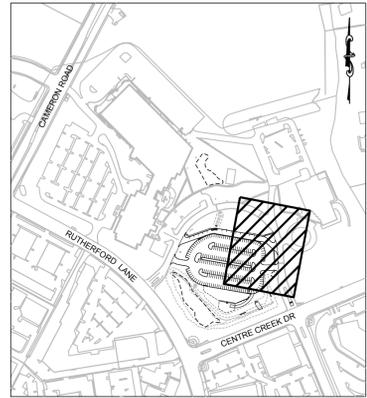
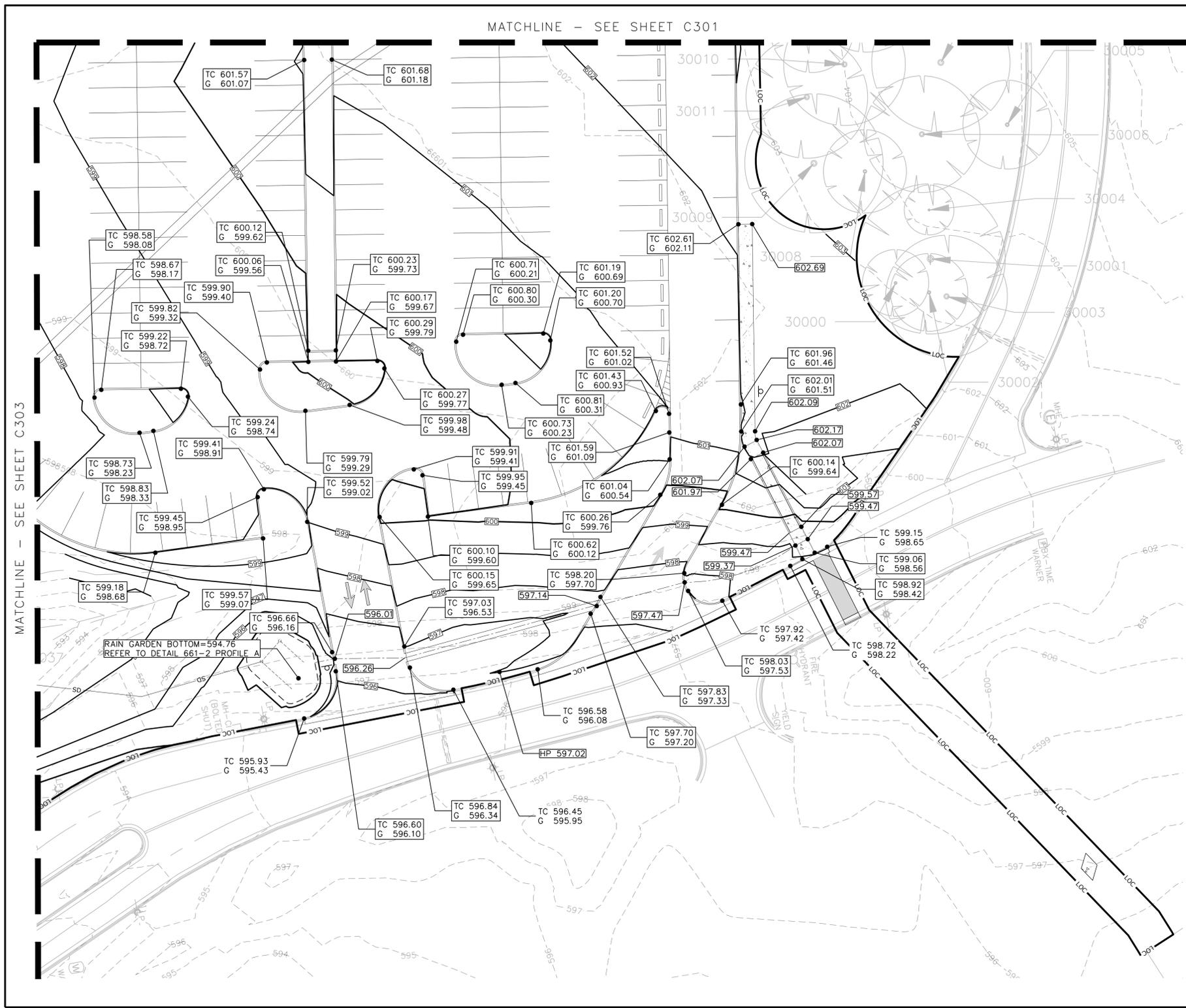
19 OF 44

File: Y:\023-85C\_Rutherford\_Park\_Lot\CAD\Sheets\02385C-P-GRADE\_C301.dwg 22x34

MATCHLINE - SEE SHEET C301



- GRADING LEGEND**
- PROP. CONTOUR
  - PROP. SPOT ELEVATION
  - EXIST. SPOT ELEVATION
  - PROP. TOP OF CURB AND GUTTER ELEVATIONS
  - EXIST. TOP OF CURB AND GUTTER ELEVATIONS
  - PROP. TOP OF WALL ELEVATION
  - PROP. TOP OF GRATE ELEVATION
  - PROP. FLOWLINE ELEVATION
  - PROP. HIGH POINT
- REFERENCE SHEET C300 FOR GRADING NOTES.



MATCHLINE - SEE SHEET C303

	<p>305 East Huntland Drive Suite 200 Austin, Texas 78752 p: 512.453.0767 f: 512.453.1734</p> <p>TBAE FIRM REGISTRATION NO.: 1452 TBEF FIRM REGISTRATION NO.: F-14116 TBLPS FIRM REGISTRATION NO.: 10065600</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	BY													<p>The bar above measures one inch on the original drawing. Adjust scales accordingly.</p>
NO.	DATE	DESCRIPTION	BY																

**GRADING PLAN - EAST VIEW**

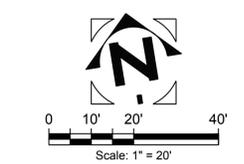
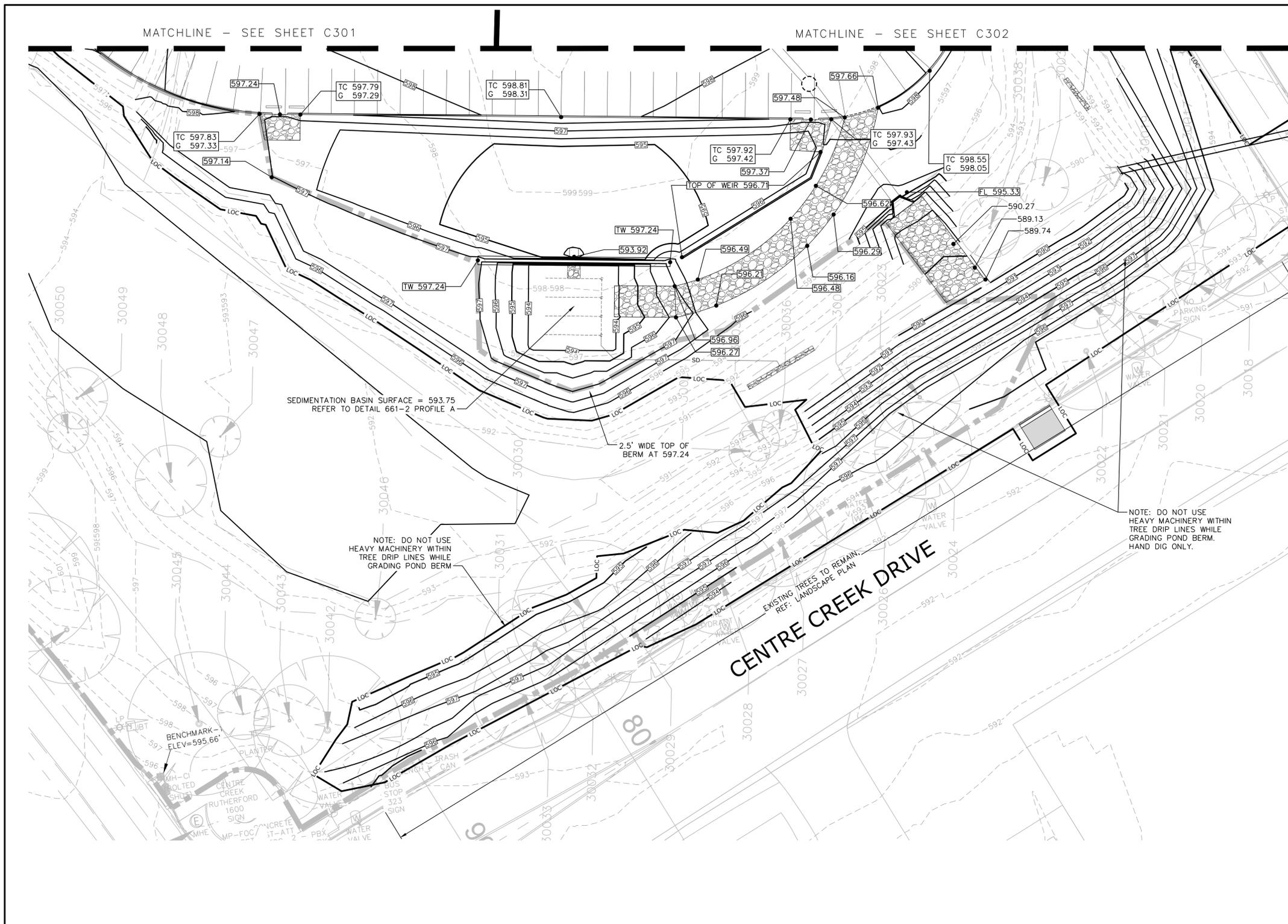
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C302**

20 OF 44

File: Y:\023-85C\_Rutherford\_Park\_Lot\_CAD\Streets\02385C-P-GRAD\_E\_302.dwg 22x34



- GRADING LEGEND**
- PROP. CONTOUR
  - PROP. SPOT ELEVATION
  - EXIST. SPOT ELEVATION
  - PROP. TOP OF CURB AND GUTTER ELEVATIONS
  - EXIST. TOP OF CURB AND GUTTER ELEVATIONS
  - PROP. TOP OF WALL ELEVATION
  - PROP. TOP OF GRATE ELEVATION
  - PROP. FLOWLINE ELEVATION
  - PROP. HIGH POINT

REFERENCE SHEET C300 FOR GRADING NOTES.

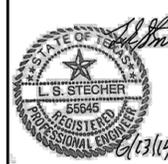
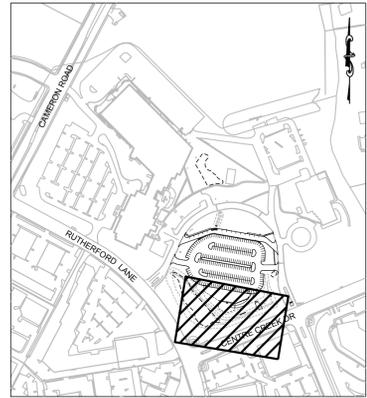
SEDIMENTATION BASIN SURFACE = 593.75  
REFER TO DETAIL 661-2 PROFILE A

2.5' WIDE TOP OF  
BERM AT 597.24

NOTE: DO NOT USE  
HEAVY MACHINERY WITHIN  
TREE DRIP LINES WHILE  
GRADING POND BERM

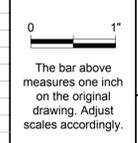
NOTE: DO NOT USE  
HEAVY MACHINERY WITHIN  
TREE DRIP LINES WHILE  
GRADING POND BERM.  
HAND DIG ONLY.

CENTRE CREEK DRIVE



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TBEF FIRM REGISTRATION NO.: F-14116  
TBLPS FIRM REGISTRATION NO.: 10065600

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**GRADING PLAN - POND VIEW**

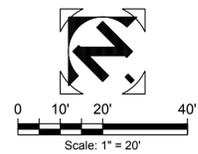
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JOB NO: 023-85C

C303

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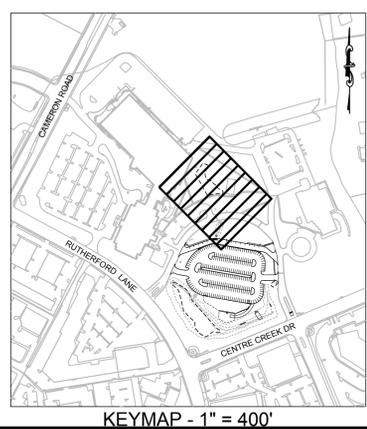
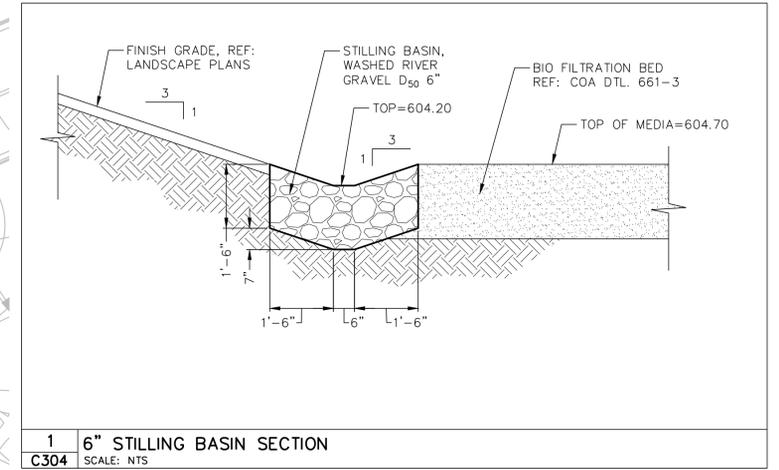
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**GRADING LEGEND**

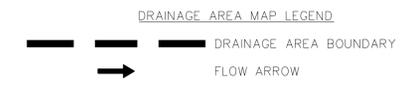
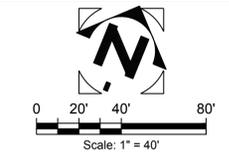
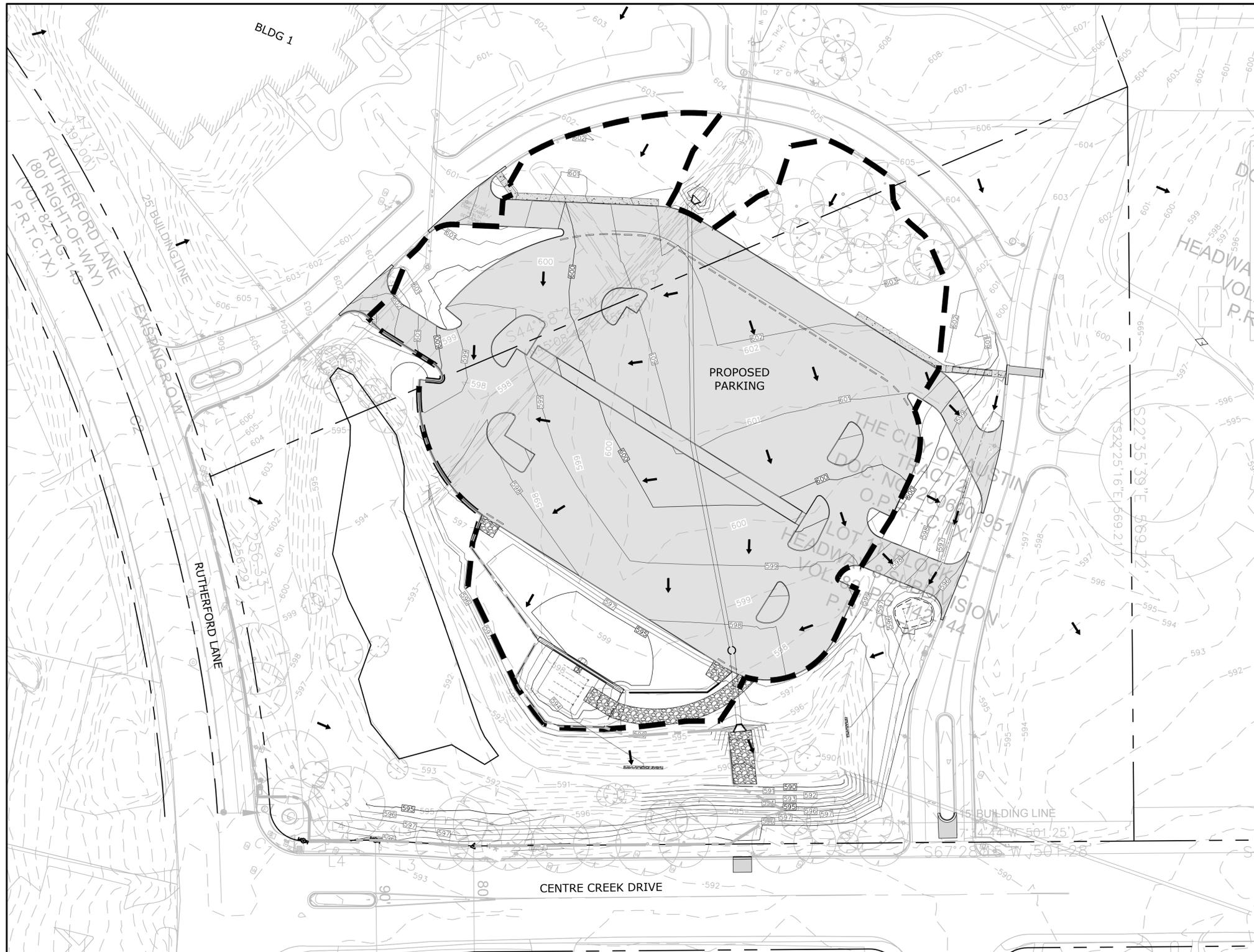
	PROP. CONTOUR
	PROP. SPOT ELEVATION
	EXIST. SPOT ELEVATION
	PROP. TOP OF CURB AND GUTTER ELEVATIONS
	EXIST. TOP OF CURB AND GUTTER ELEVATIONS
	PROP. TOP OF WALL ELEVATION
	PROP. TOP OF GRATE ELEVATION
	PROP. FLOWLINE ELEVATION
	PROP. HIGH POINT

REFERENCE SHEET C300 FOR GRADING NOTES.



	<p>305 East Huntland Drive Suite 200 Austin, Texas 78752 p: 512.453.0767 f: 512.453.1734</p> <p>TBAE FIRM REGISTRATION NO.: 1452 TBEF FIRM REGISTRATION NO.: F-1416 TBPLS FIRM REGISTRATION NO.: 10065600</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 75%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	BY													<p>The bar above measures one inch on the original drawing. Adjust scales accordingly.</p>	<p><b>GRADING PLAN - RAIN GARDEN</b></p> <p>Rutherford Lane Campus Parking Lot Improvements 1520 Rutherford Lane Austin, Texas 78754</p>	<p>PLOTTED: 08/06/2019 JOB NO: 023-85C</p> <p><b>C304</b></p> <p>22 OF 44</p>
NO.	DATE	DESCRIPTION	BY																		

File: Y:\023-85C\_Rutherford\_Park\_Lot\_CAD\Streets\02385C-P-GRADE\_304.dwg 22x34



**NOTE:**  
 ALL WATER QUALITY REQUIREMENTS FOR NEW IMPERVIOUS COVER ASSOCIATED WITH THIS PROJECT ARE MET BY THE SEDIMENTATION / FILTRATION POND ON THIS SHEET AND THE SOUTH RAIN GARDEN ON SHEET C307.

**APPENDIX R-6:  
 FULL OR PARTIAL BIOFILTRATION POND CALCULATIONS  
 FOR DEVELOPMENT PERMITS  
 Rutherford Parking Lot,**

DRAINAGE AREA DATA:			
Drainage area to control (DA)		3.20	ac.
Drainage area Impervious Cover		64.11%	
Capture Depth (CD) = (0.5*(IC-20)/100)		0.941	in
WATER QUALITY CONTROL CALCULATIONS		Required	Provided
<b>The Water Quality Control is to be BIOFILTRATION</b>			
25-year peak flow rate to control (Q25)		21,598	cfs
100-year peak flow rate to control (Q100)		31,478	cfs
Water Quality Volume (WQV=CD*DA*3630) @ WQE		10931	cf
Maximum Ponding Depth above Sand Bed (H)		1.79	ft
Sedimentation Pond Area		8,810	sf
For Full Sedimentation Pond Volume (min. of WQV)	≥	10931	cf
For Full Filtration Pond Area, Af = WQV/(7 + 2.33*H)	≥	979	sf
Filtration Pond Volume		2,823	cf
Water Quality Elevation		596.71	ft msl
Elevation of Splitter/Overflow Weir (min WQ elev)	≥	596.71	ft msl
Length of Splitter Weir		70	ft
Required head to Pass Q100 (max 1ft)	≤	0.29	ft
Pond freeboard to pass Q100 (min 0.25 ft)	≥	0.25	ft
Top of peripheral wall (elev)		597.25	ft
Biofiltration Pond Drawdown Time (min. 48 hrs)	≥	48	hrs
Underdrain Orifice Size (diameter)		1.50	in
Underdrain Orifice Size (area)		1.77	sq in

**Sedimentation pond**

Stage (ft msl) (Elevation)	Storage Volume (cf)
593.92	0
594.00	1
594.50	211
595.00	1,377
595.50	3,561
596.00	6,585
596.50	10,477
596.71	12,250

**Filtration Pond**

Stage (ft msl) (Elevation)	Storage Volume (cf)
593.75	0
594.00	274
594.50	935
595.00	1,753
595.50	2,737
595.54	2,823

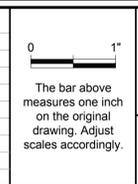


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TBAE FIRM REGISTRATION NO.: 1452  
 TBRF FIRM REGISTRATION NO.: F-1416  
 TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**WATER QUALITY DRAINAGE AREA MAP**

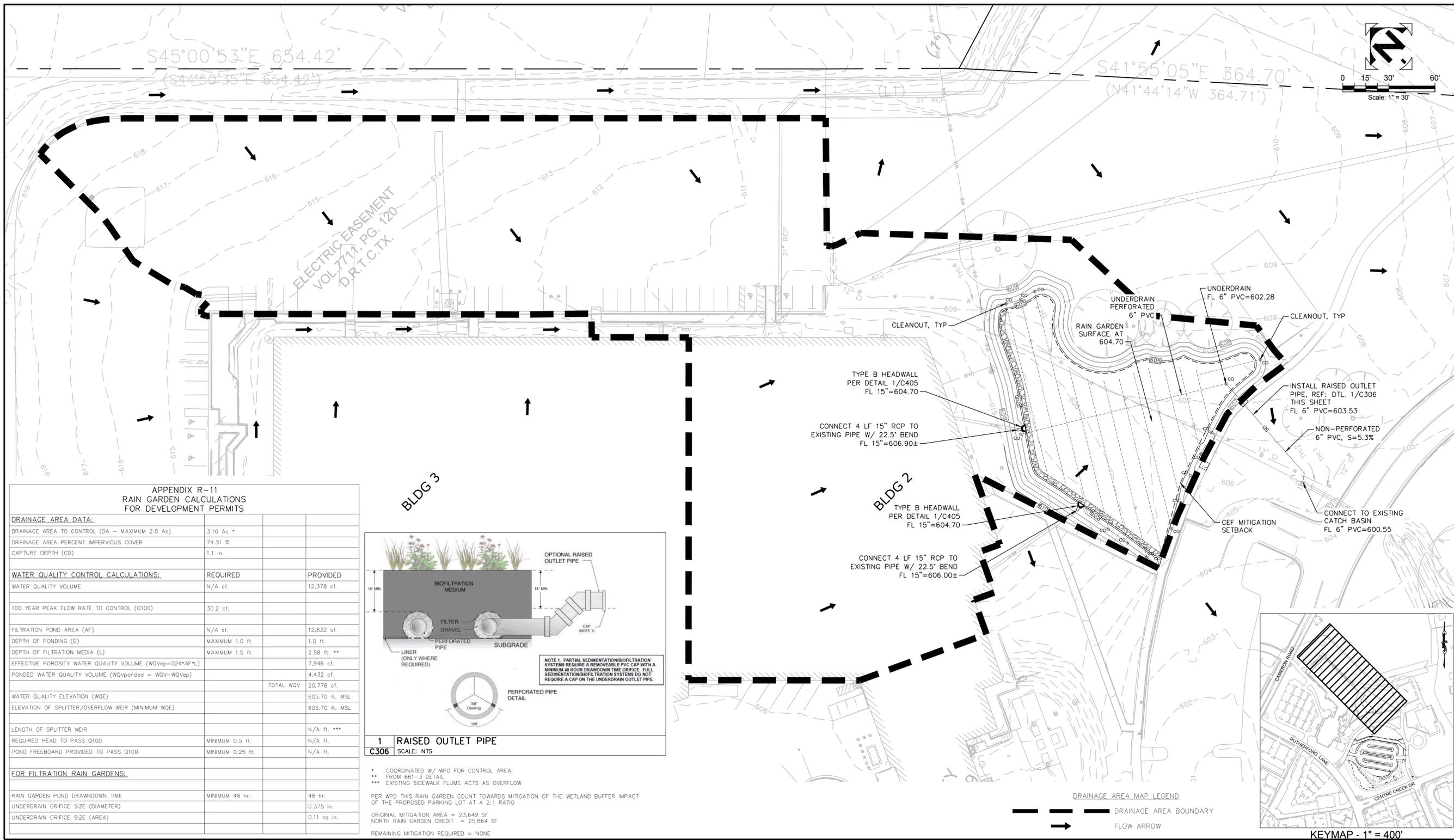
Rutherford Lane Campus Parking Lot Improvements  
 1520 Rutherford Lane  
 Austin, Texas 78754

PLOTTED: 08/06/2019  
 JOB NO: 023-85C

**C305**

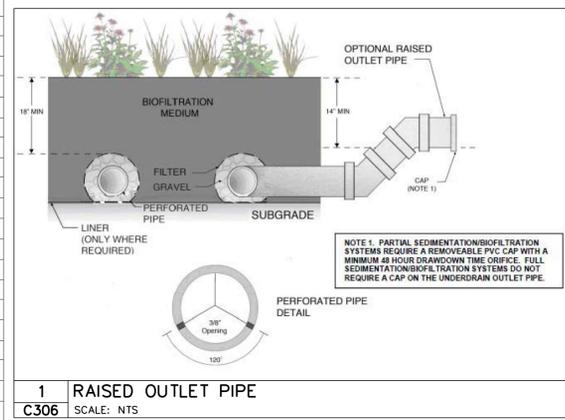
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File: Y:\023-85C\_Rutherford\_Park\_Lot\CAD\Streets\02385C-DAM.dwg 22x34



**APPENDIX R-11  
RAIN GARDEN CALCULATIONS  
FOR DEVELOPMENT PERMITS**

DRAINAGE AREA DATA:		
DRAINAGE AREA TO CONTROL (DA - MAXIMUM 2.0 Ac)	3.10 Ac *	
DRAINAGE AREA PERCENT IMPERVIOUS COVER	74.31 %	
CAPTURE DEPTH (CD)	1.1 in.	
WATER QUALITY CONTROL CALCULATIONS:		
WATER QUALITY VOLUME	REQUIRED N/A cf.	PROVIDED 12,378 cf.
100 YEAR PEAK FLOW RATE TO CONTROL (Q100)	30.2 cf.	
FILTRATION POND AREA (AF)	N/A sf.	12,832 sf.
DEPTH OF PONDING (D)	MAXIMUM 1.0 ft	1.0 ft.
DEPTH OF FILTRATION MEDIA (L)	MAXIMUM 1.5 ft	2.58 ft. **
EFFECTIVE POROSITY WATER QUALITY VOLUME (WQ <sub>vep</sub> =Q24*AF*L)		7,946 cf.
PONDED WATER QUALITY VOLUME (WQ <sub>vp</sub> = WQV - WQ <sub>vep</sub> )		4,432 cf.
	TOTAL WQV	20,778 cf.
WATER QUALITY ELEVATION (WQE)		605.70 ft. MSL
ELEVATION OF SPLITTER/OVERFLOW WEIR (MINIMUM WQE)		605.70 ft. MSL
LENGTH OF SPLITTER WEIR		N/A ft. ***
REQUIRED HEAD TO PASS Q100	MINIMUM 0.5 ft.	N/A ft.
POND FREEBOARD PROVIDED TO PASS Q100	MINIMUM 0.25 ft.	N/A ft.
FOR FILTRATION RAIN GARDENS:		
RAIN GARDEN POND DRAWDOWN TIME	MINIMUM 48 hr.	48 hr.
UNDERDRAIN ORIFICE SIZE (DIAMETER)		0.375 in.
UNDERDRAIN ORIFICE SIZE (AREA)		0.11 sq in.



**1 RAISED OUTLET PIPE**  
SCALE: NTS

- \* COORDINATED W/ WPD FOR CONTROL AREA.
- \*\* FROM 661-3 DETAIL
- \*\*\* EXISTING SIDEWALK FLUME ACTS AS OVERFLOW

PER WPD THIS RAIN GARDEN COUNT TOWARDS MITIGATION OF THE WETLAND BUFFER IMPACT OF THE PROPOSED PARKING LOT AT A 2:1 RATIO

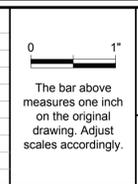
ORIGINAL MITIGATION AREA = 23,649 SF  
NORTH RAIN GARDEN CREDIT = 25,664 SF  
REMAINING MITIGATION REQUIRED = NONE

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TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-14116  
TBLPS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



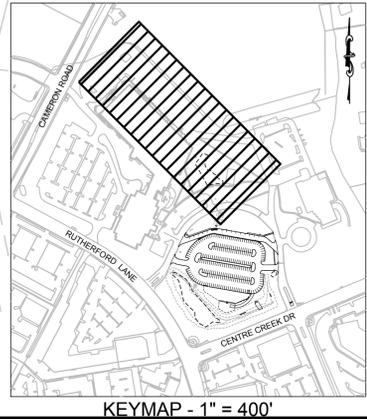
**NORTH RAIN GARDEN DRAINAGE AREA MAP**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

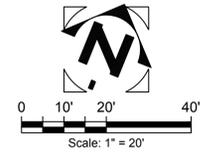
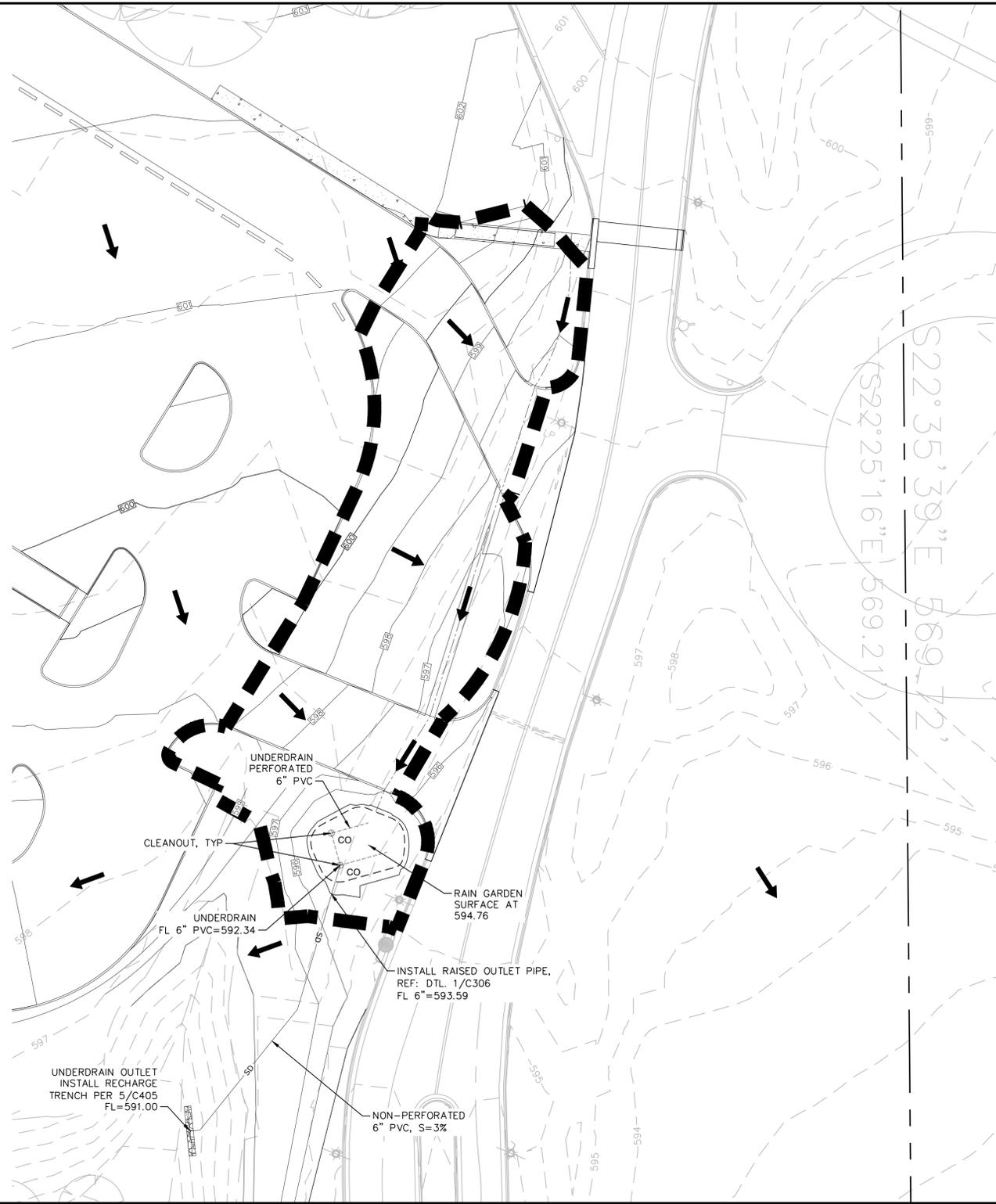
PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C306**

24 OF 44

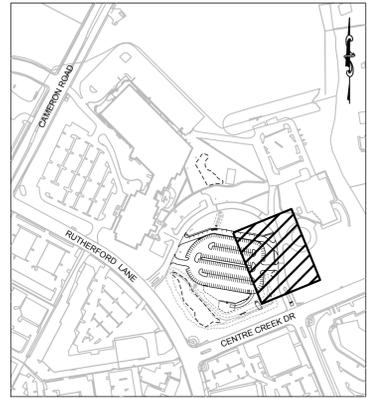


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**APPENDIX R-11  
RAIN GARDEN CALCULATIONS  
FOR DEVELOPMENT PERMITS**

DRAINAGE AREA DATA:			
DRAINAGE AREA TO CONTROL (DA - MAXIMUM 2.0 Ac)	0.276 Ac		
DRAINAGE AREA PERCENT IMPERVIOUS COVER	28.74 %		
CAPTURE DEPTH (CD)	0.587 in.		
WATER QUALITY CONTROL CALCULATIONS:			
	REQUIRED	PROVIDED	
WATER QUALITY VOLUME	589 cf.	768 cf.	
100 YEAR PEAK FLOW RATE TO CONTROL (Q100)	2.09 cf.		
FILTRATION POND AREA (AF)	474 sf.	474 sf.	
DEPTH OF PONDING (D)	MAXIMUM 1.0 ft	1.0 ft.	
DEPTH OF FILTRATION MEDIA (L)	MAXIMUM 1.5 ft	2.58 ft.	
EFFECTIVE POROSITY WATER QUALITY VOLUME (WQVep=0.24*AF*L)		294 cf.	
PONDED WATER QUALITY VOLUME (WQVponed = WQV-WQVep)		768 cf.	
		TOTAL WQV	768 cf.
WATER QUALITY ELEVATION (WQE)			595.76 ft. MSL
ELEVATION OF SPLITTER/OVERFLOW WEIR (MINIMUM WQE)			595.76 ft. MSL
LENGTH OF SPLITTER WEIR			N/A ft.
REQUIRED HEAD TO PASS Q100	MINIMUM 0.5 ft.		N/A ft.
POND FREEBOARD PROVIDED TO PASS Q100	MINIMUM 0.25 ft.		N/A ft.
FOR FILTRATION RAIN GARDENS:			
RAIN GARDEN POND DRAWDOWN TIME	MINIMUM 48 hr.		48 hr.
UNDERDRAIN ORIFICE SIZE (DIAMETER)			0.38 in.
UNDERDRAIN ORIFICE SIZE (AREA)			0.11 sq in.



**NOTE:**  
ACCESS FOR CLEANING UNDERDRAIN PIPING SHOULD CONSIST OF CLEANOUTS WITH REMOVABLE PVC CAPS, LOCATED AT PIPE BENDS SHOWN ON THE PLANS. THE TOPS OF CLEANOUTS SHOULD BE SET FLUSH WITH TOP OF THE SAND BED. ONE CLEANOUT, TO SERVE AS ACCESSIBLE CLEANOUT WHEN THE POND IS FULL, SHOULD EXTEND ABOVE THE WATER QUALITY ELEVATION OF 595.76 SHOWN ON THE PLANS.

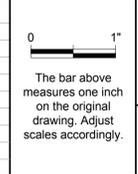


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TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

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**SOUTH RAIN GARDEN DRAINAGE AREA MAP**

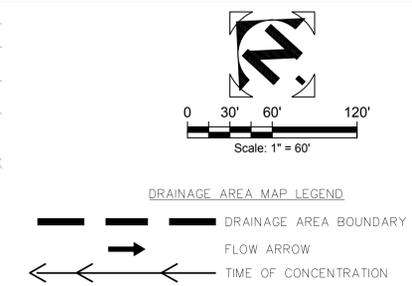
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C307**

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Time of Concentration (TR-55)			
<b>Sheet Flow</b>			P1
Manning's roughness coef. [asphalt]	n	n/a	0.016
Flow Length	L	feet	100
2-year, 24-hour rainfall	P2	inches	3.44
Slope	s	ft/ft	0.019
Travel time	Tt	hours	0.027
<b>Shallow Concentrated Flow</b>			
Flow Length	L	feet	468
Slope	s	ft/ft	0.014
Surface (1=paved or 2=unpaved)		n/a	1
Velocity	V	ft/sec	2.43
Travel time	Tt	hours	0.054
<b>Channel Flow</b>			
Manning's roughness coef.	n	n/a	0.040
Flow Length	L	feet	334
Slope	s	ft/ft	0.014
Velocity	V	ft/sec	1.95
Travel time	Tt	hours	0.048
<b>Pipe Flow [existing 30" RCP, n=0.012]</b>			
Flow Length	L	feet	68
Slope	s	ft/ft	0.018
Velocity	V	ft/sec	13.510
Travel time	Tt	hours	0.001
<b>Channel Flow</b>			
Manning's roughness coef.	n	n/a	0.040
Flow Length	L	feet	62
Slope	s	ft/ft	0.003
Velocity	V	ft/sec	2.19
Travel time	Tt	hours	0.008
<b>Pipe Flow [proposed 30" RCP, n=0.012]</b>			
Flow Length	L	feet	347
Slope	s	ft/ft	0.017
Velocity	V	ft/sec	7.320
Travel time	Tt	hours	0.013
<b>Pipe Flow [proposed 36" RCP, n=0.012]</b>			
Flow Length	L	feet	62
Slope	s	ft/ft	0.005
Velocity	V	ft/sec	5.560
Travel time	Tt	hours	0.003
<b>Total Time of Concentration</b>			
Tc	hours		0.154
Tc	min.		9.2
<b>Lag Time</b>			
T <sub>L</sub>	hours		0.092
T <sub>L</sub>	min.		5.5

Detention Volume

WSE (FT)	Volume (CF)
588.43	0
589	12
590	1,019
591	4,514
592	12,770
593	30,369
594	59,798
595	101,099
596	154,119

HEC-HMS SCS Type III 24-Hour Storm Updated based on Approved Site Plan SPL-85-04-1926

Drainage Areas	Area (ac)	CN	Percent Impervious	T Lag (min)	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)
Existing Condition* - All	24.704	74	N/A	15	21.1	60.1	84.7	126.6
*SP-85-04-1926 plans assumed up to 85% impervious cover conditions, ref note #1 sheet 3								
<b>Proposed Condition</b>								
Pond In E1	18.816	74	57.8	5.2	41.2	82.9	107.8	158.6
Pond Out	18.816	74	57.8	na	32.2	44.9	49.8	57.2
Undetained	5.888	74	85	3	16.7	30.8	39.1	52.9
Total Out	24.074	74	66.0	na	45.2	69.9	82.4	102.3
<b>Pond Out Elev</b>								
	18.816	74	85	na	591.6	593.2	594	595.1
<b>Rational Method</b>								
Drainage Areas	Area (ac)	Percent Impervious	Tc (min)	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	
Pipe SD-A	4.15	63.3	8.2	12.14	20.34	27.27	37.15	
Pond Spillway	3.20	64.1	5.0	10.38	17.35	21.60	31.50	
<b>Pond Volume Needed</b>		100-Year	2.5 ac-ft	595.1 WSE				
<b>Pond Volume Provided</b>		100-Year	3.5 ac-ft	596.0 WSE				

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TBEF FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

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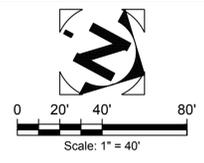
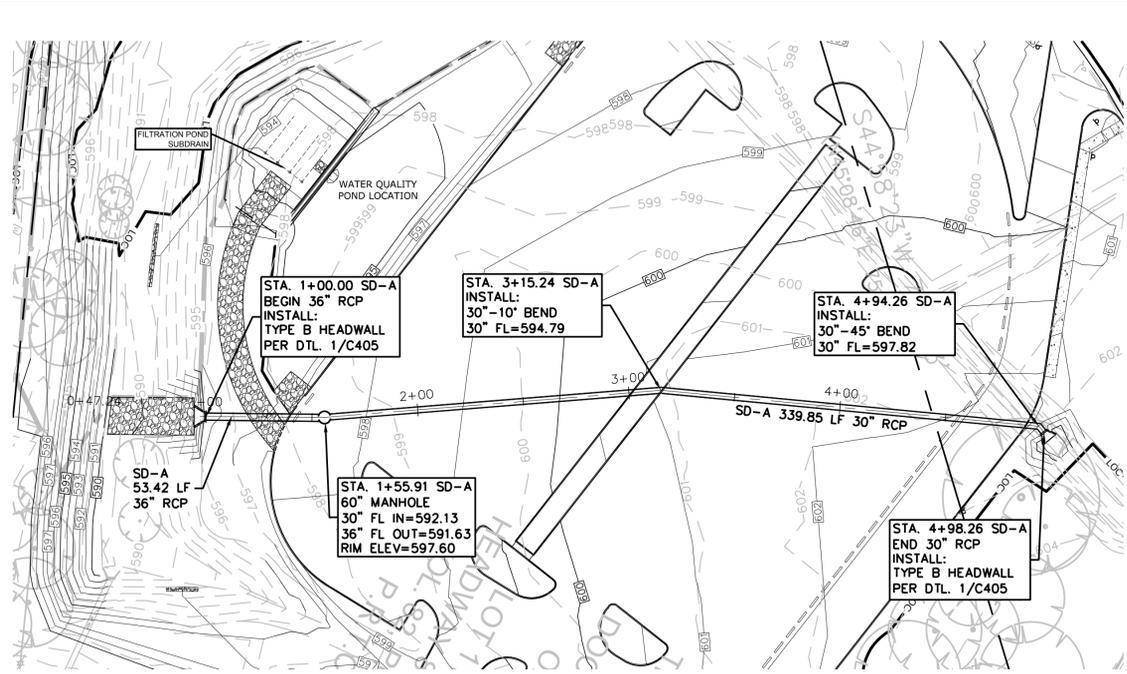
**STORMWATER MANAGEMENT DRAINAGE AREA MAP**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C308**

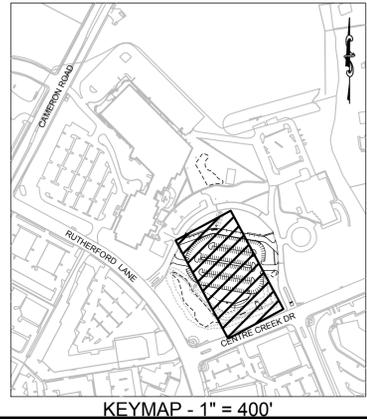
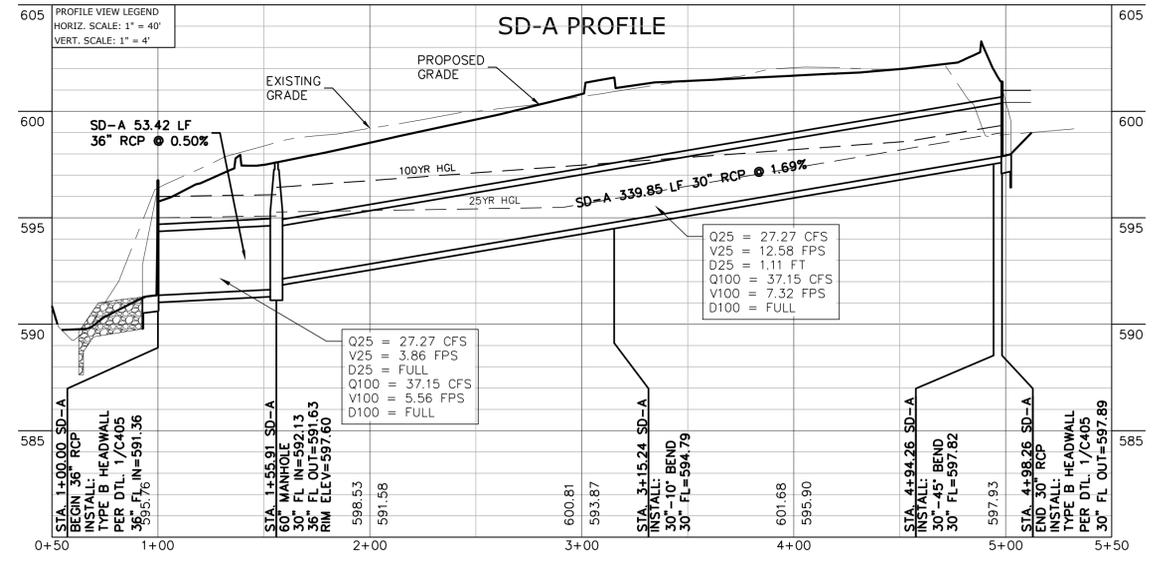
26 OF 44



**STORM DRAIN LEGEND**

	PROP. STORM DRAIN LINE
	PROP. STORM DRAIN MANHOLE REF. DETAILS 506S-3, 503-4S

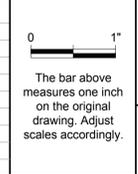
- NOTES:**
1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND/OR CROSSINGS TWO WEEKS PRIOR TO CONSTRUCTION.
  2. ALL EXISTING PUBLIC UNDERGROUND WATER AND WASTEWATER UTILITIES ARE APPROXIMATE AND SHOWN PER COA RECORDS.
  3. THE LOCATION OF EXISTING ON-SITE UNDERGROUND UTILITIES ARE UNKNOWN. THE PROPOSED ON-SITE IMPROVEMENTS ARE BASED ON ESTIMATED CONNECTION POINTS TO THE EXISTING BUILDINGS AND/OR EXISTING SERVICE LINES. SERVICE TO THE EXISTING BUILDINGS SHALL REMAIN ACTIVE DURING CONSTRUCTION.
  4. ALL CLEANOUTS AND MANHOLES WITHIN PAVED AREAS SHALL HAVE HEAVY-DUTY TRAFFIC BEARING CASTINGS AND COVERS.
  5. PIPING OF VARYING DIAMETERS SHALL BE INSTALLED TO MATCH CROWN, UNLESS OTHERWISE NOTED.
  6. ALL STORM PIPE SHALL BE CLASS III RCP EXCEPT AS NOTED.



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TBLPS FIRM REGISTRATION NO.: 10065600

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STORM DRAIN SD-A PLAN AND PROFILE

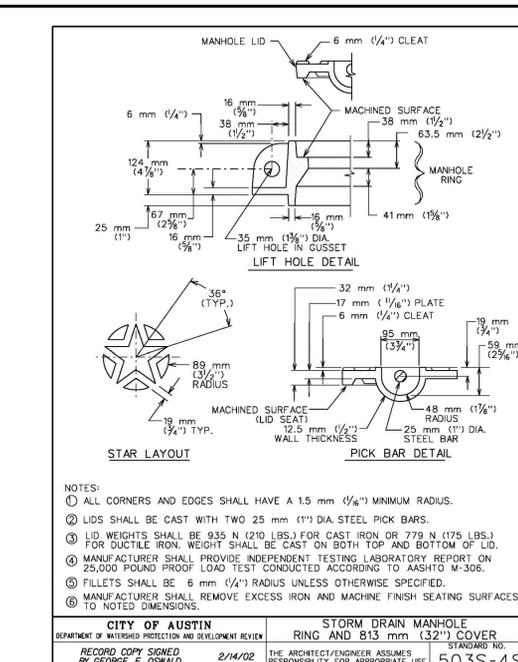
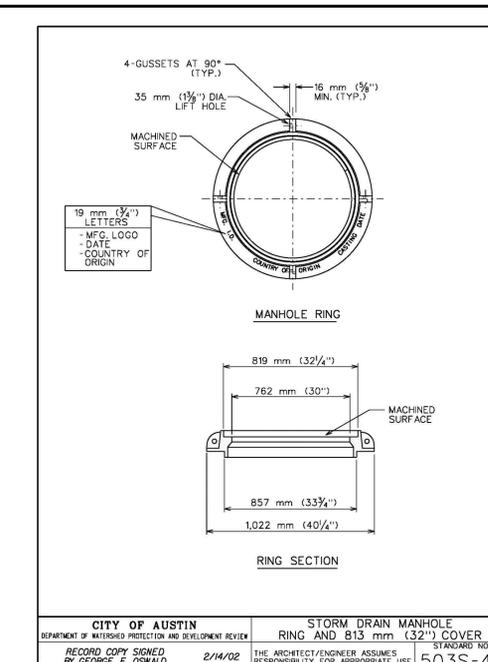
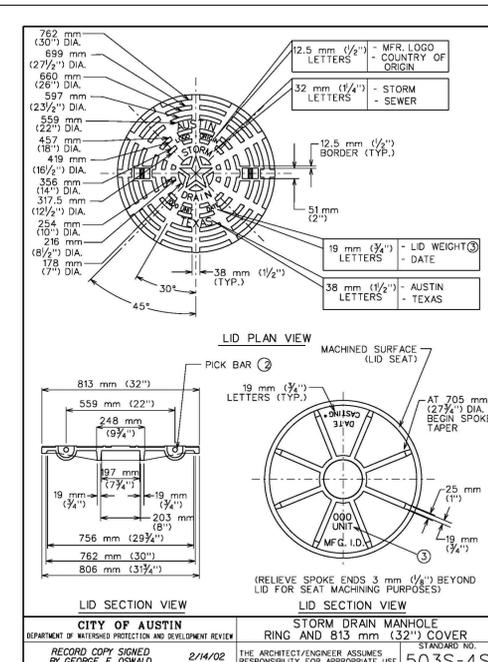
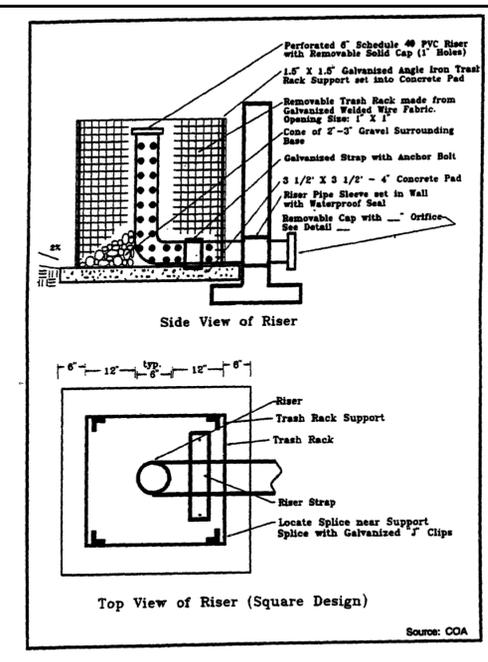
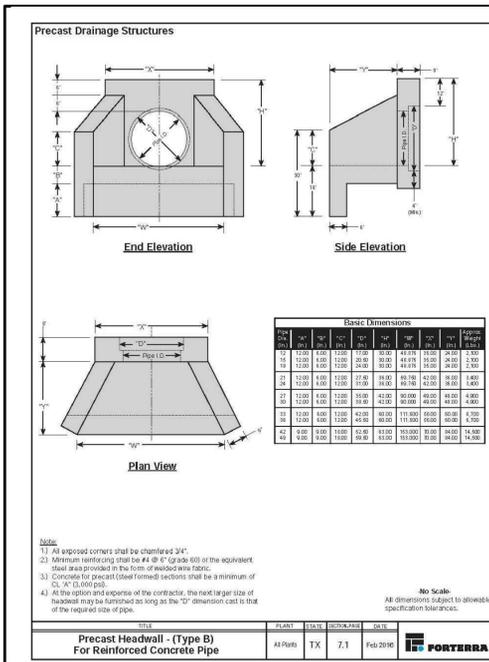
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

C401

27 OF 44

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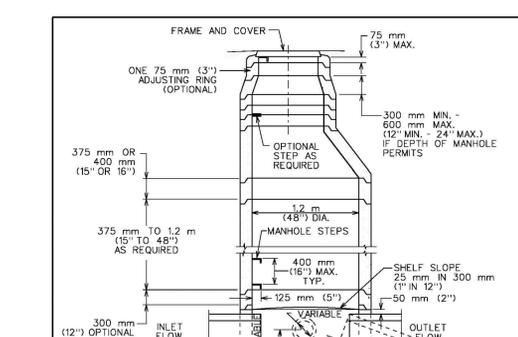
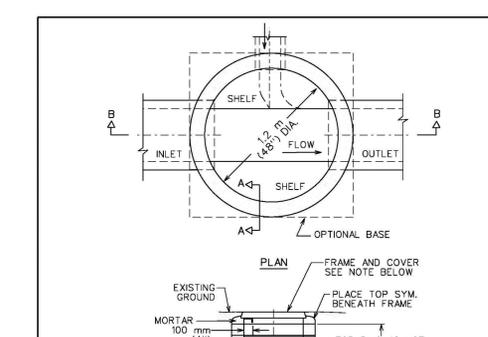
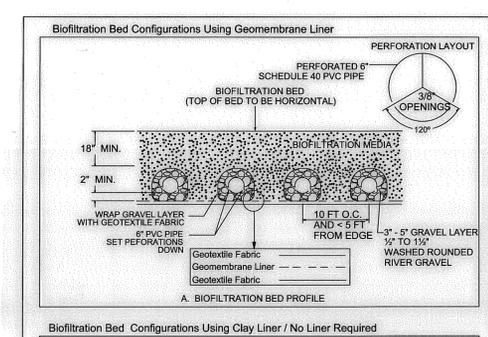
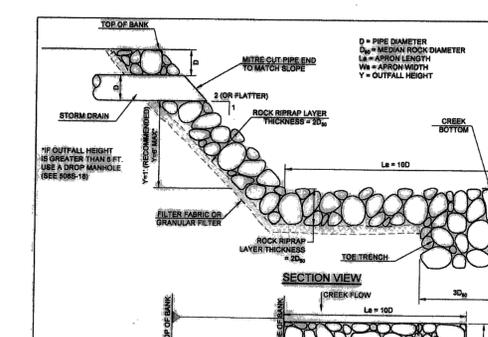
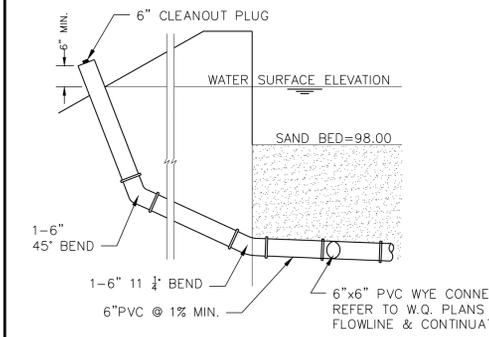
1 PRECAST HEADWALL (TYPE B) SCALE: NTS

3 RISER PIPE DETAIL W/ TRASH RACK SCALE: NTS

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT BIOFILTRATION BED CONFIGURATIONS USING GEOMEMBRANE LINER STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3



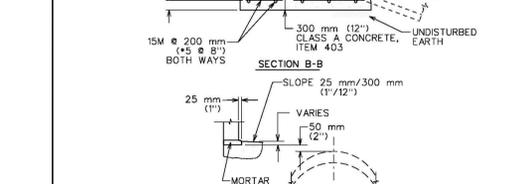
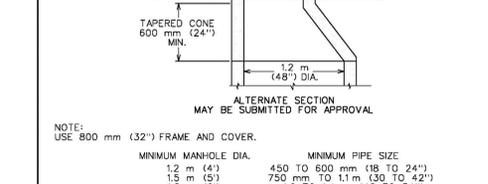
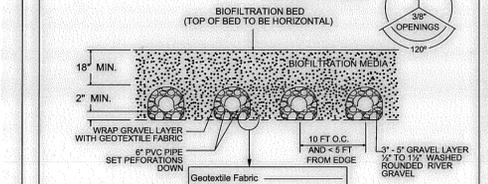
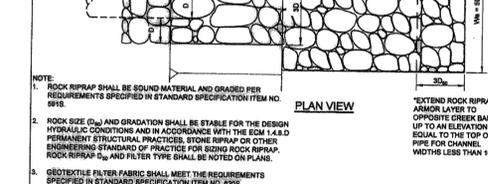
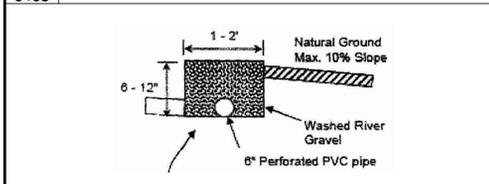
2 FILTRATION PIPE CLEANOUT SCALE: NTS

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT BIOFILTRATION BED CONFIGURATIONS USING GEOMEMBRANE/CLAY LINER STANDARD NO. 661-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3



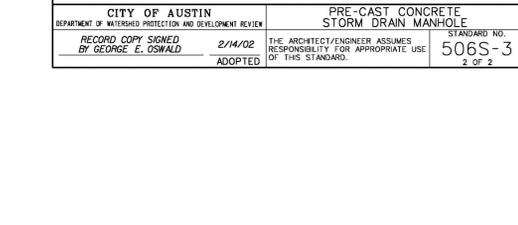
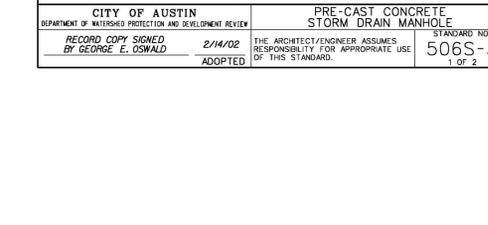
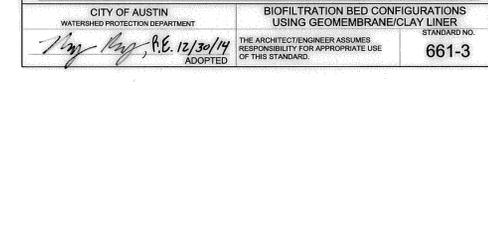
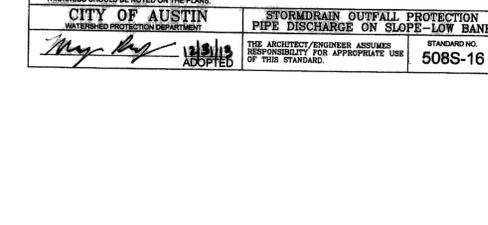
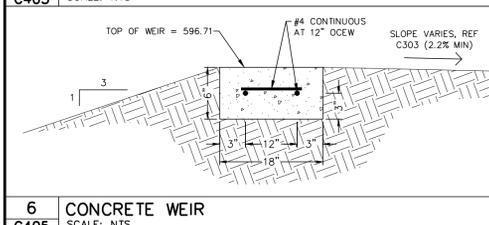
5 RECHARGE TRENCH DETAIL SCALE: NTS

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3



6 CONCRETE WEIR SCALE: NTS

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

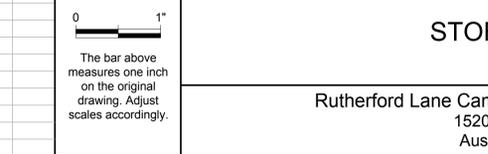
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT PRE-CAST CONCRETE STORM DRAIN MANHOLE STANDARD NO. 506S-3



NO.	DATE	DESCRIPTION	BY



STORM DETAILS

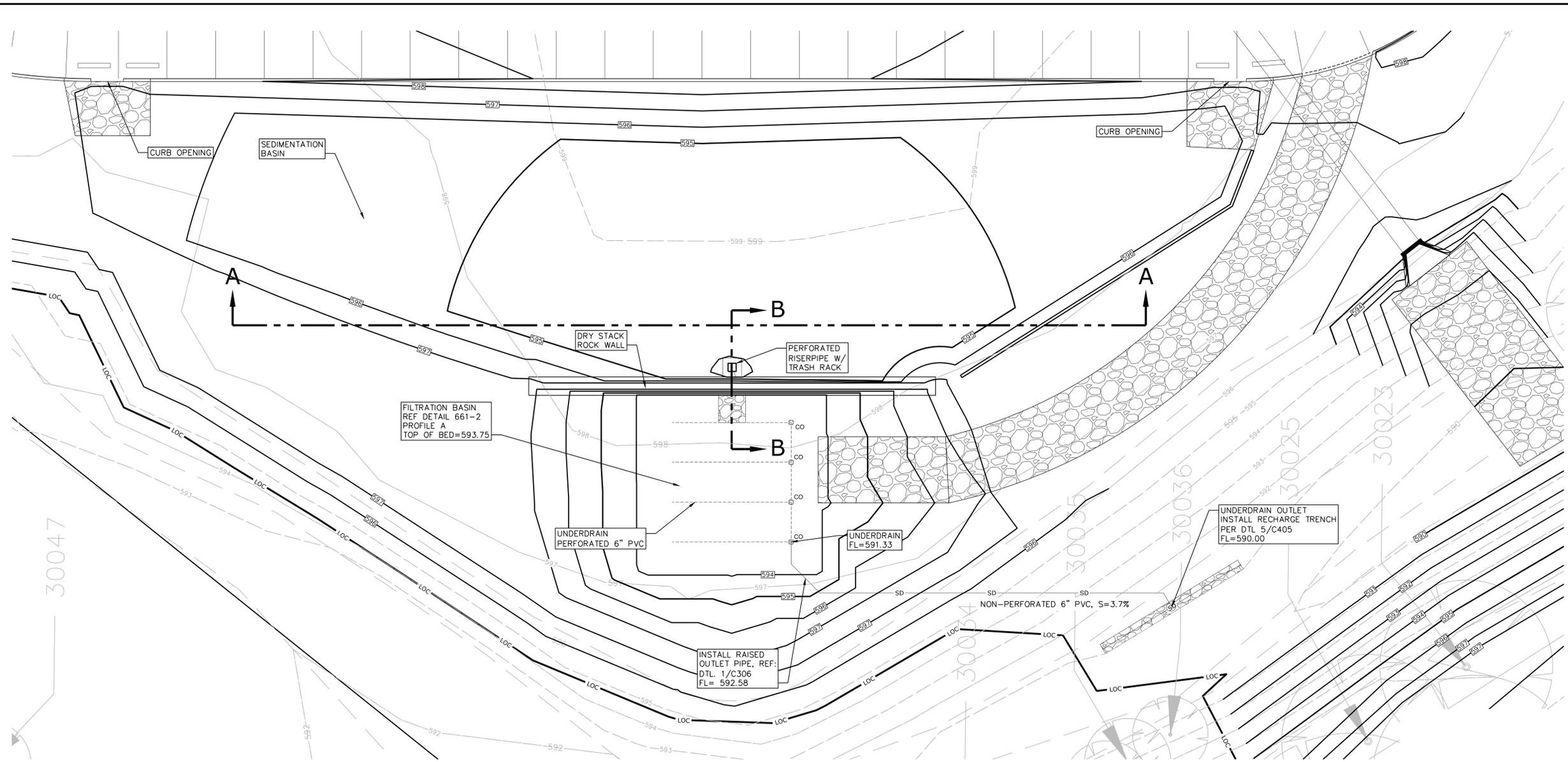
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 Austin, Texas 78754

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 JOB NO: 023-85C

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85-04-1926



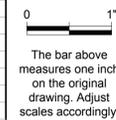
**1 FULL SEDIMENTATION WITH BIOFILTRATION WATER QUALITY POND**  
SCALE: 1" = 10'

NOTE:  
ACCESS FOR CLEANING UNDERDRAIN PIPING SHOULD CONSIST OF CLEANOUTS WITH REMOVABLE PVC CAPS, LOCATED AT PIPE BENDS SHOWN ON THE PLANS. THE TOPS OF CLEANOUTS SHOULD BE SET FLUSH WITH TOP OF THE SAND BED. ONE CLEANOUT, TO SERVE AS ACCESSIBLE CLEANOUT WHEN THE POND IS FULL, SHOULD EXTEND ABOVE THE WATER QUALITY ELEVATION OF 596.71 SHOWN ON THE PLANS.



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TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**FULL SEDIMENTATION WITH BIOFILTRATION WATER QUALITY POND**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

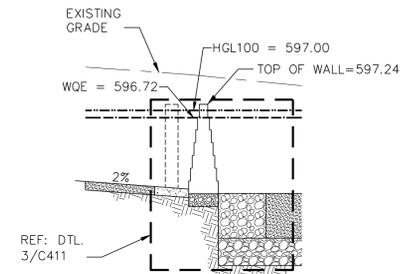
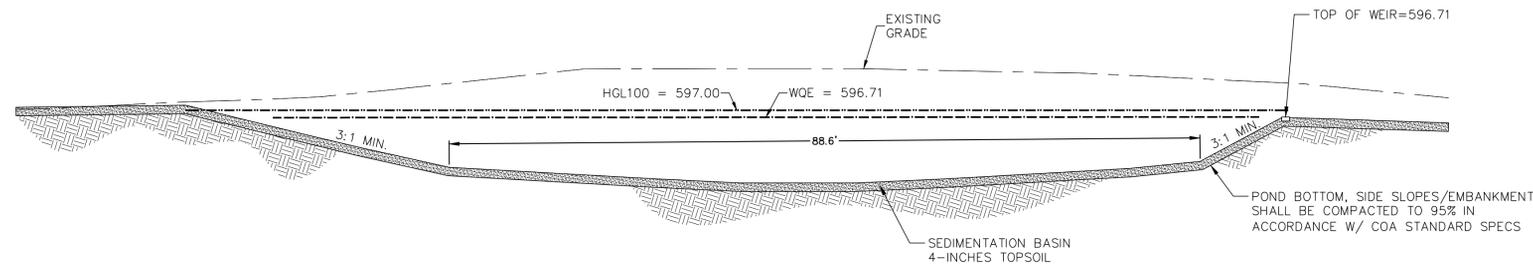
PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C410**

29 OF 44

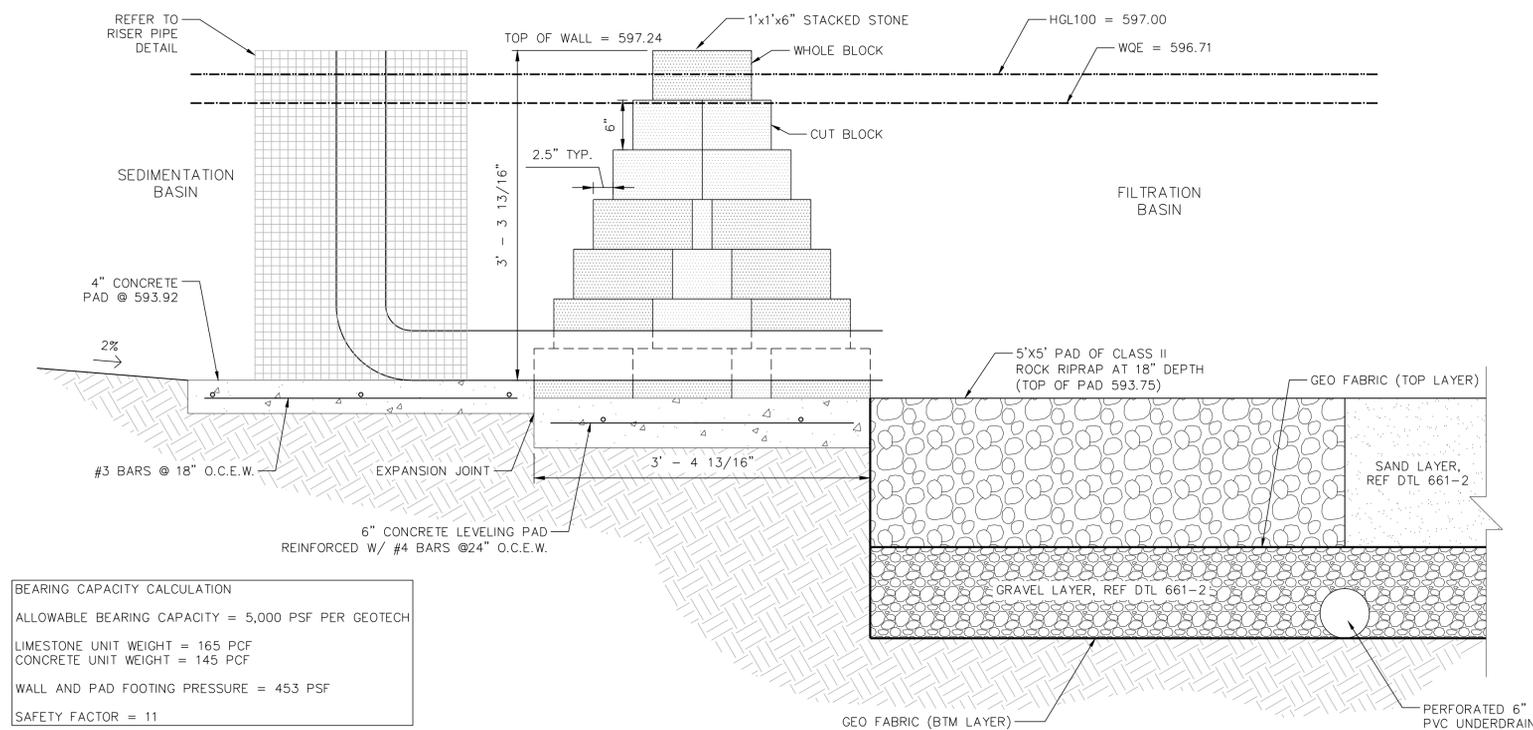
85-04-1926

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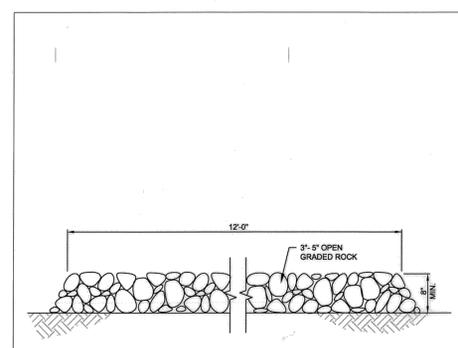


1 POND - SECTION A-A  
C411 SCALE: 1" = 10'

2 POND - SECTION B-B  
C411 SCALE: 1" = 10'



**BEARING CAPACITY CALCULATION**  
 ALLOWABLE BEARING CAPACITY = 5,000 PSF PER GEOTECH  
 LIMESTONE UNIT WEIGHT = 165 PCF  
 CONCRETE UNIT WEIGHT = 145 PCF  
 WALL AND PAD FOOTING PRESSURE = 453 PSF  
 SAFETY FACTOR = 11



- NOTES:**
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
  2. THICKNESS: NOT LESS THAN 200 mm (8").
  3. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.

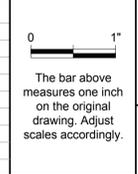
<b>CITY OF AUSTIN</b> DEPARTMENT OF PUBLIC WORKS	<b>POND MAINTENANCE ROAD</b> CROSS SECTION	STANDARD NO. <b>662S-2</b>
<i>E. J. L., P.E.</i>	1/4/2019 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

3 DRY STACK WALL SECTION  
C411 SCALE: NTS

305 East Huntland Drive  
Suite 200  
Austin, Texas 78752  
p: 512.453.0767  
f: 512.453.1734

TBAE FIRM REGISTRATION NO.: 1452  
TBEF FIRM REGISTRATION NO.: F-14116  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**WATER QUALITY POND SECTION VIEWS**

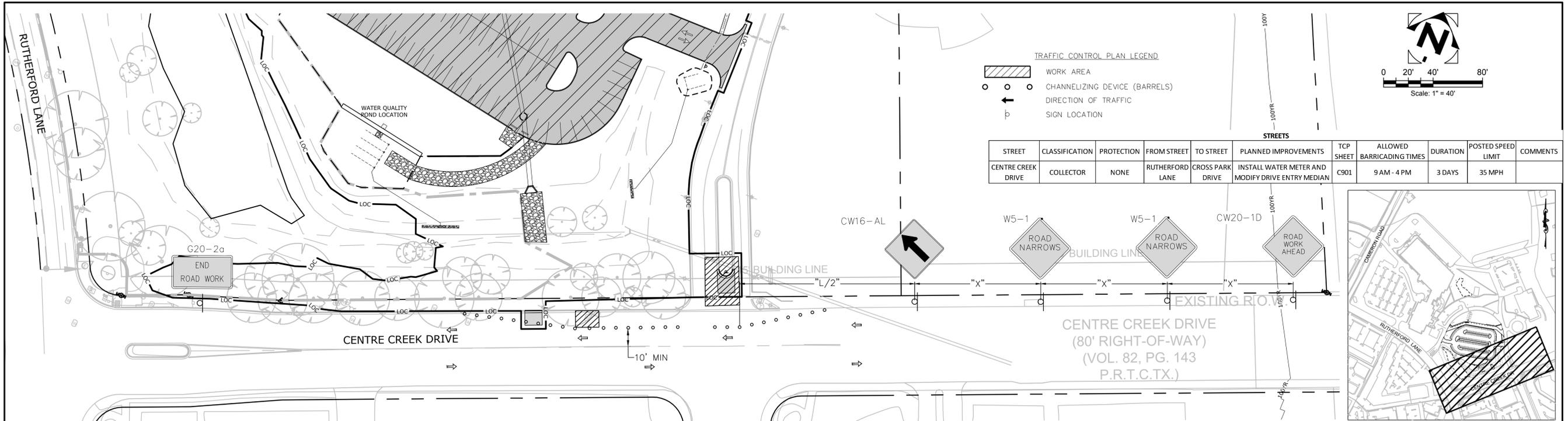
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C411**

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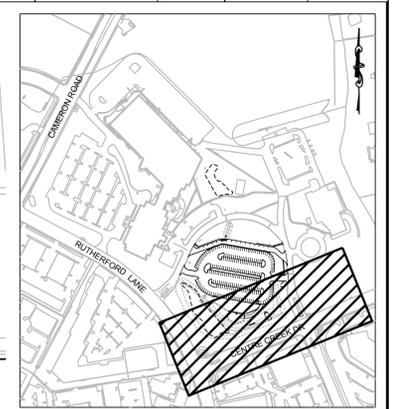
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**TRAFFIC CONTROL PLAN LEGEND**

- WORK AREA
- CHANNELIZING DEVICE (BARRELS)
- DIRECTION OF TRAFFIC
- SIGN LOCATION

STREET	CLASSIFICATION	PROTECTION	FROM STREET	TO STREET	PLANNED IMPROVEMENTS	TCP SHEET	ALLOWED BARRICADING TIMES	DURATION	POSTED SPEED LIMIT	COMMENTS
CENTRE CREEK DRIVE	COLLECTOR	NONE	RUTHERFORD LANE	CROSS PARK DRIVE	INSTALL WATER METER AND MODIFY DRIVE ENTRY MEDIAN	C901	9 AM - 4 PM	3 DAYS	35 MPH	

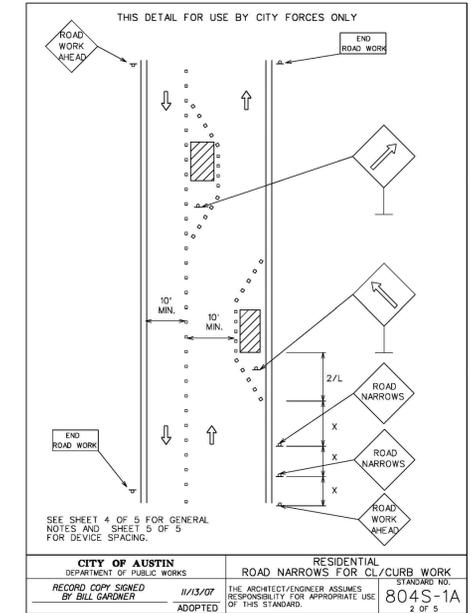


**NOTES:**

- THESE TRAFFIC CONTROL PLAN SEQUENCES ARE FOR THE CONSTRUCTION OF WATER SERVICE TAP AND ENTRY DRIVEWAY MODIFICATIONS AT CENTRE CREEK DRIVE.
- IT SHALL BE THE TRAFFIC CONTROL CONTRACTOR'S RESPONSIBILITY TO SET UP THE APPROPRIATE CONTROLS THROUGHOUT THE DRIVEWAY CONSTRUCTION PROCESS.
- ONLY ONE SET UP WILL BE ALLOWED AT A TIME.
- CONTRACTOR SHALL CONTACT PROPERTY OWNERS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION THAT WILL IMPACT ACCESS TO THEIR PROPERTIES.
- ALL TRAFFIC CONTROL MEASURES, BARRICADES AND PROJECT SIGNS SHALL CONFORM TO TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE LOCAL GOVERNING AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN, CLEAN, MOVE, AND REPLACE TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
- ALL CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE ENGINEER.

**SUPPLEMENTAL TRAFFIC CONTROL NOTES**

- CONTRACTOR SHALL ABIDE BY CITY OF AUSTIN NOISE ORDINANCE AT ALL TIMES. A CERTIFIED COMPETENT TRAFFIC CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF THE TRAFFIC CONTROL SIGNS AND DEVICES AS INDICATED ON THE PLANS.
- MINIMUM 3:1 SAFETY SLOPE SHALL BE MAINTAINED AS PER COA STANDARD 804S-4, 4 OF 9, FOR EXCAVATIONS EXCEEDING 6 FT. THE CONTRACTOR SHALL REFER TO STANDARD SPECIFICATION SECTIONS 803S 1, 2, 4, 6, AND 7 BEFORE STARTING ANY WORK IN THE ROW. IF ROADWORK WILL BE OPENED TO TRAFFIC (ADJACENT TO OR OVER EXCAVATED AREA) EXCAVATION SHALL BE BACKFILLED AND COLD MIXED AS CONSTRUCTION PROGRESSES WITH LAST 30 FEET PLATED (COA STANDARD 804S-4, 5, 6 AND 7 OF 9) TO MEET COA SAFETY SLOPE REQUIREMENTS. ALL TEMPORARY EXCAVATION REPAIRS SHALL BE IN ACCORDANCE WITH PLANS AND CONTRACT DOCUMENTS.
- SIDEWALKS AND CROSSWALK CLOSURES SHALL BE INSTALLED AS PER COA STANDARD 804S-1, 4 OF 9 WHEN CONSTRUCTION ACTIVITIES AND TEMPORARY PEDESTRIAN FENCING BLOCK ACCESS, LIMITED TO ONE BLOCK AT A TIME.
- NO PARKING SIGNS SHALL BE PLACED IN WORK AREAS 48 HOURS PRIOR TO TRAFFIC CONTROL SETUP.
- ALL WORK REQUIRING SET UP OUTSIDE OF THE ROW SHALL BE PHASED TO MINIMIZE INCONVENIENCE TO THE PUBLIC, SUCH AS WORKING EXTENDED HOURS OR ON WEEKENDS. COORDINATION WITH THE BUSINESS OWNERS ONE WEEK IN ADVANCE OF CONSTRUCTION WILL BE REQUIRED.
- WHERE NECESSARY CONTRACTOR SHALL COORDINATE WORK IMPACTING BUS STOPS WITH CAPITAL METRO.
- PEDESTRIAN FENCING, AS PER COA STANDARD 804S-4, 1 AND 2 OF 8, SHALL BE USED ALONG ALL WORK AREAS TO SEPARATE PEDESTRIANS FROM THE WORK AREAS.



**Typical Transition Lengths and Suggested Maximum Spacing of Devices**

Speed (MPH)	Posted Speed (MPH)	Formula	Minimum Desirable Taper Lengths (L) (feet)	Suggested Max. Device Spacing (feet)	Suggested Sign Spacing (Meters) (feet)
30	30	L-W5	3,010 (914) 3,311 (1011) 3,612 (1103)	9	15-20 (4.6-6.1)
35	35	L-W5	45 (13.7) 50 (15.2) 55 (16.8)	9	15-20 (4.6-6.1)
40	40	L-W5	65 (19.8) 70 (21.3) 75 (22.8)	9	15-20 (4.6-6.1)
45	45	L-W5	80 (24.4) 90 (27.4) 100 (30.5)	12	25-30 (7.6-9.1)
50	50	L-W5	150 (45.7) 165 (50.3) 180 (54.9)	15	30-35 (9.1-10.7)
55	55	L-W5	150 (45.7) 165 (50.3) 180 (54.9)	15	30-35 (9.1-10.7)
60	60	L-W5	180 (54.9) 200 (61.0) 220 (67.1)	18	40-45 (12.2-13.7)
65	65	L-W5	185 (56.4) 215 (65.5) 235 (71.6)	19	40-50 (12.2-15.2)
70	70	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
75	75	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
80	80	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
85	85	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
90	90	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
95	95	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
100	100	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
105	105	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)
110	110	L-W5	215 (65.5) 235 (71.6) 255 (77.7)	21	45-55 (13.7-16.8)

- RIGHT OF WAY MANAGEMENT STANDARD NOTES**
- FOR RIGHT OF WAY VIOLATIONS INCLUDING BUT NOT LIMITED TO WORKING WITHOUT A PERMIT OR AN EXPIRED PERMIT WITHIN THE CITY OF AUSTIN ROW AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. FOLLOWING IS THE INVESTIGATION FEE SCHEDULE FOR VIOLATIONS OF PUBLIC SAFETY:
    - a. NO OR EXPIRED PERMIT = EQUAL TO THE COST OF THE PERMIT
    - b. VIOLATION OF PERMIT CONDITIONS, RESTRICTION LIMITS, TIMES AND LOCATIONS ON ROW PERMIT = \$250
    - c. IMPROPER ADVANCE WARNING SIGN = \$250
    - d. IMPROPER USE OF DEVICE = \$250
    - e. FAILURE TO CORRECT DEFICIENCY RESTRICTING TRAFFIC DURING PEAK HOURS = EQUAL TO THE COST OF THE PERMIT
    - f. MULTIPLE VIOLATIONS = UP TO A 4 DAY SUSPENSION OF WORK
  - CONTRACTORS AND THEIR SUBCONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE RIGHT OF WAY.
  - CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS FROM RIGHT OF WAY MANAGEMENT DIVISION, FOR EACH STREET PRIOR TO COMMENCEMENT OF WORK. PLEASE CALL (512) 974-1150 FOR ADDITIONAL INFORMATION REGARDING PERMITTING PROCESS AND THE MOST CURRENT RIGHT OF WAY PERMITTING FEE SCHEDULE.
  - FOR WORK AT SIGNALIZED INTERSECTIONS CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR THE TRAFFIC SIGNALS GROUP; TO COORDINATE AND GAIN APPROVAL A MINIMUM OF 1 WEEK PRIOR TO CHANGE OF PROJECT LOCATION OR PHASE.
  - CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY PERMIT ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
  - CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR RIGHT OF WAY MANAGEMENT A MINIMUM OF 1 WEEK PRIOR TO START OF WORK.
  - CONTRACTOR MUST PROVIDE TRAINING CERTIFICATION OF COMPETENT PERSON THAT WILL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLACEMENT, TO RIGHT OF WAY INSPECTOR, PRIOR TO START OF WORK.
  - STORAGE OF EQUIPMENT AND/OR MATERIAL WITHIN THE ROW:
    - a. STORAGE OF EQUIPMENT IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO THE EQUIPMENT REQUIRED FOR THE CURRENT WORK ACTIVITY. THIS EQUIPMENT SHALL BE PROTECTED BEHIND BARRICADES.
    - b. STORAGE OF MATERIAL IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO NO MORE THAN THE MATERIAL REQUIRED FOR THREE DAYS OF PRODUCTION. THIS MATERIAL SHALL BE PROTECTED BEHIND WATER-FILLED BARRIER.
    - c. EQUIPMENT OR MATERIAL STORED IN THE ROW SHALL NOT CREATE A VISUAL BARRIER TO TRAFFIC.
  - NO MORE THAN ONE WORK ZONE LOCATION MAY BE SET AT ONE TIME.
  - PEAK HOURS FOR ARTERIAL AND COLLECTOR STREETS ARE 6AM TO 9AM AND 4PM TO 6 PM, MONDAY THROUGH FRIDAY. NO DISRUPTION OR REDUCTION OF ACTIVE ROADWAY OR PEDESTRIAN ROUTE CAPACITY SHALL OCCUR DURING THESE TIMES, UNLESS ALLOWED BY TRAFFIC CONTROL PLAN.
  - EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN IMPACTED TRAFFIC LANES. FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 5 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN TO THE OWNER'S REPRESENTATIVE FOR REVIEW BY RIGHT OF WAY MANAGEMENT DIVISION.
  - EXISTING SIDEWALKS AND BEATEN PATHS SHALL BE MAINTAINED AS ADA COMPLIANT THROUGHOUT THE PROJECT DURATION WITH THE EXCEPTION OF FINAL FLATWORK AND UTILITY TIE-INS. ANY WORK OVERHEAD WITHIN 25 FEET OF EXISTING PEDESTRIAN PATHWAYS WILL REQUIRE PEDESTRIAN COVERED WALKWAYS. SIDEWALK CLOSURES FOR MAJOR SIDEWALK IMPROVEMENTS HAVE A 14-DAY MAXIMUM PERIOD AND SHALL BE COMPLETED IN PHASES AS TO NOT CLOSE MORE THAN ONE BLOCK AT A TIME.
  - ROAD WORK AHEAD AND CONSTRUCTION ENTRANCE AHEAD SIGNS MUST BE PLACED AT ALL APPROACHES TO STABILIZED CONSTRUCTION ENTRANCE. SEE THE CITY OF AUSTIN STANDARD DETAILS FOR SIGN SPACING.
  - DRIVEWAYS SHALL NOT BE CLOSED FOR MORE THAN 3 CONSECUTIVE CALENDAR DAYS.
  - ADA COMPLIANCE SHALL BE MAINTAINED THROUGH STABILIZED CONSTRUCTION ENTRANCE.
  - BARRIER SHALL BE PLACED WITHIN GUIDELINES SET FORTH BY THE TMUTCD CRASH TESTING REQUIREMENTS (NCHRP REPORT 350) FOR THAT PARTICULAR BARRIER USED. ANY MODIFICATIONS TO THAT TESTING APPLICATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
  - FOR OVERNIGHT PROTECTION OF WORK ZONES WITHIN THE ROW, REFER TO CITY OF AUSTIN STANDARD 804S-4 SERIES DETAILS.
  - ALL TEMPORARY PAVING SHALL CONFORM TO CITY OF AUSTIN STANDARD DETAIL 1100S-4.
  - INITIAL AND PHASE CHANGE TRAFFIC CONTROL CHANGES SHALL BE INSTALLED ON THE WEEKENDS.
  - THE NAME AND TELEPHONE NUMBER OF THE CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD 800 SERIES DETAILS.

**mwm Design Group**

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Suite 200  
Austin, Texas 78752  
p: 512.453.0767  
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TBAE FIRM REGISTRATION NO.: 1452  
TBE FIRM REGISTRATION NO.: F-14116  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY

**TRAFFIC CONTROL PLAN**

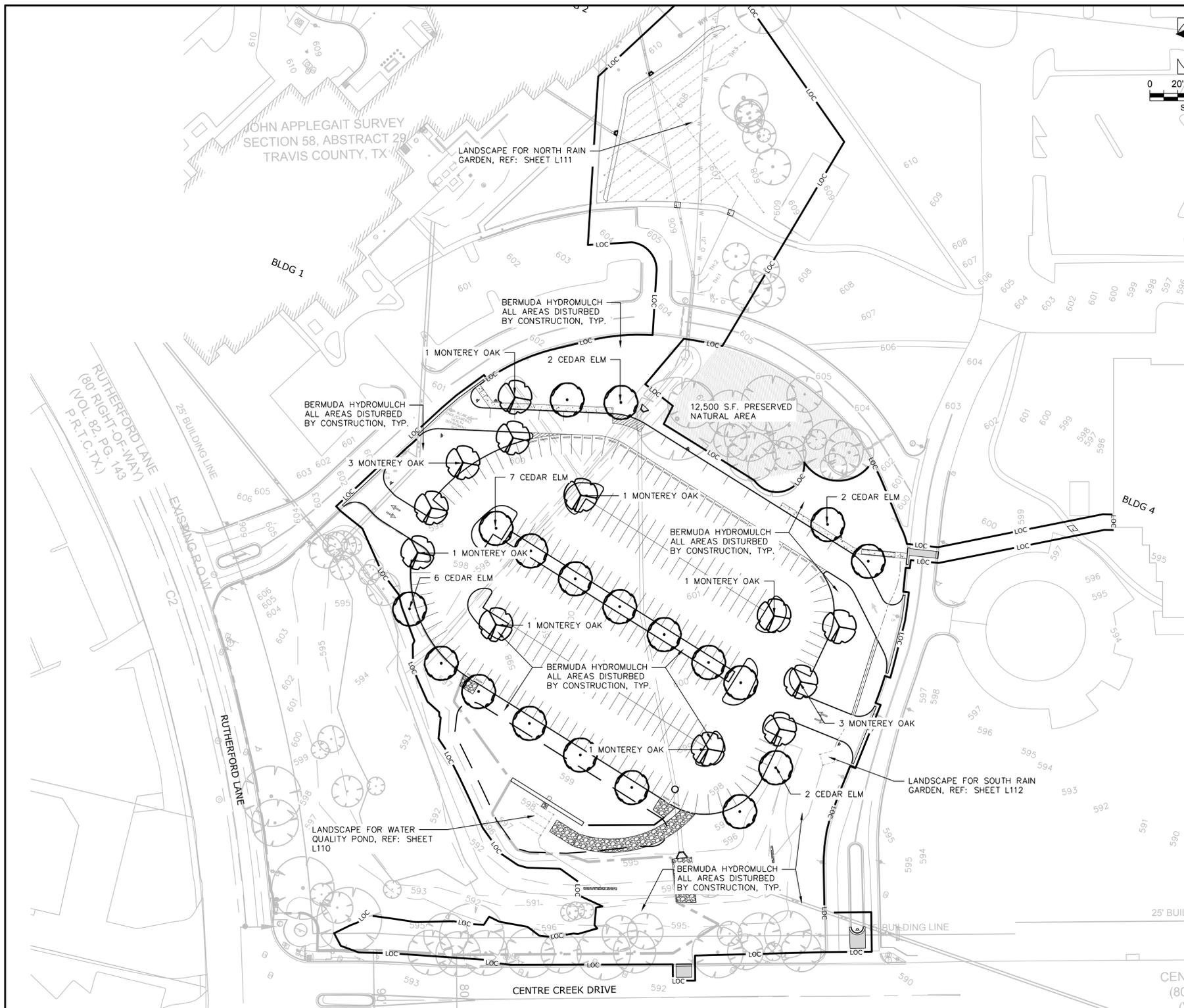
Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

**C501**

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APPENDIX C - LANDSCAPE CALCULATIONS				
<b>BASIC STREET YARD REQUIREMENTS</b>				
City Landscape Requirements				
Street Yard = N/A				
Required Street Yard Landscaped = N/A				
Provided Street Yard Landscaped = N/A				
City Tree Requirements				
Required Street Yard Trees = N/A				
Provided Street Yard Trees = N/A				
<b>LANDSCAPE IN PARKING LOTS</b>				
City Landscape Requirements				
Required street yard parking lot landscaped area = N/A				
Provided street yard parking lot landscaped area = N/A				
Required non-street yard parking lot landscaped area = 1,210 s.f.				
Provided non-street yard parking lot landscaped area = 6,234 s.f.				
<b>INNOVATIVE WATER MANAGEMENT REQUIREMENTS</b>				
City Requirements				
50% of total required landscaped area = 605 s.f.				
1- undisturbed natural area(s) or undisturbed existing trees with no potable irrigation = 12,500 s.f.				
2- irrigated by stormwater runoff conveyed from impervious surfaces on the site = N/A				
<b>BUFFERING POINT SYSTEM</b>				
Buffering Points Required = N/A				
Buffering Points Provided = N/A				
	Quantity	Preferred	Other	Points
Large Trees (3" Cal.)	N/A	N/A	N/A	N/A
Small Trees (3" Cal.)	N/A	N/A	N/A	N/A
Large Shrubs - 5 Gal.	N/A	N/A	N/A	N/A
Medium Shrubs - 1 Gal.	N/A	N/A	N/A	N/A

New parking lot is located on existing private driveway. Landscape calculations based on ROW are not applicable: Required Streetyard, Streetyard Trees, Streetyard Parking Lot Landscape, Parking Lot Buffer.

TREE LIST					
QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	COMMENT
19	CEDAR ELM	ULMUS CRASSIFOLIA	3" CALIPER	AS SHOWN	SINGLE TRUNK
12	MONTEREY OAK	QUERCUS POLYMORPHA	3" CALIPER	AS SHOWN	SINGLE TRUNK

PLANT LIST					
QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	COMMENT
234	BIG BLUESTEM	ANDROPOGON GERARDI	1 GAL	AS SHOWN	
1026	BLUE MUHLY	MUHLENBERGIA LINDHEIMERII	1 GAL	AS SHOWN	
556	BLUE MISTFLOWER	CONOCLINIUM (EUPATORIUM) COELESTINUM	1 GAL	AS SHOWN	
425	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS	1 GAL	AS SHOWN	
456	CHERRY SAGE	SALVIA GREGGII	1 GAL	AS SHOWN	
412	EASTERN GAMA GRASS	TRIPSACUM DACTYLOIDES	1 GAL	AS SHOWN	
321	INLAND SEA OATS	CHASMANTHIUM LATIFOLIUM	1 GAL	AS SHOWN	
568	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	1 GAL	AS SHOWN	
782	OBEDIENT PLANT	PHYSOSTEGIA ANGUSTIFOLIA	1 GAL	AS SHOWN	
537	PAVONIA	PAVONIA LASIOPETALA	1 GAL	AS SHOWN	
656	SWITCH GRASS	PANICUM VIRGATUM	1 GAL	AS SHOWN	
	BERMUDA GRASS	CYNODON DACTYLON	HYDROMULCH	AS SHOWN	

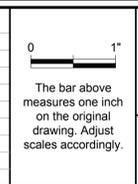


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**LANDSCAPE PLAN**

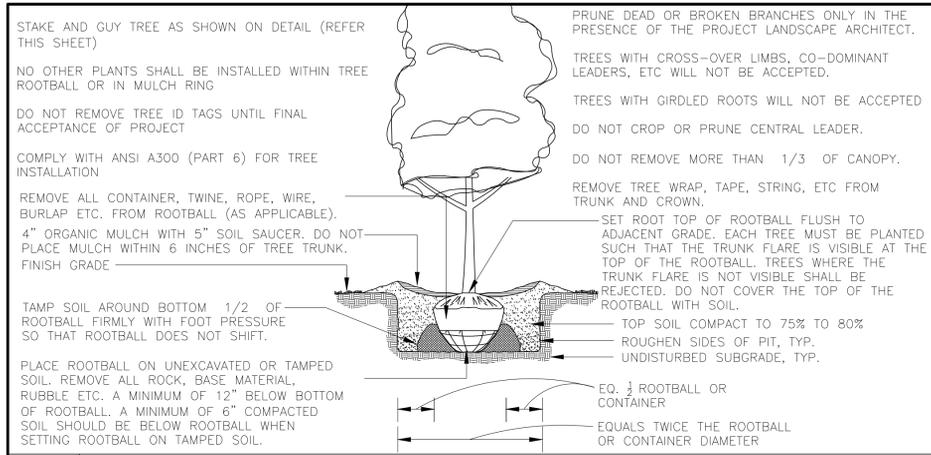
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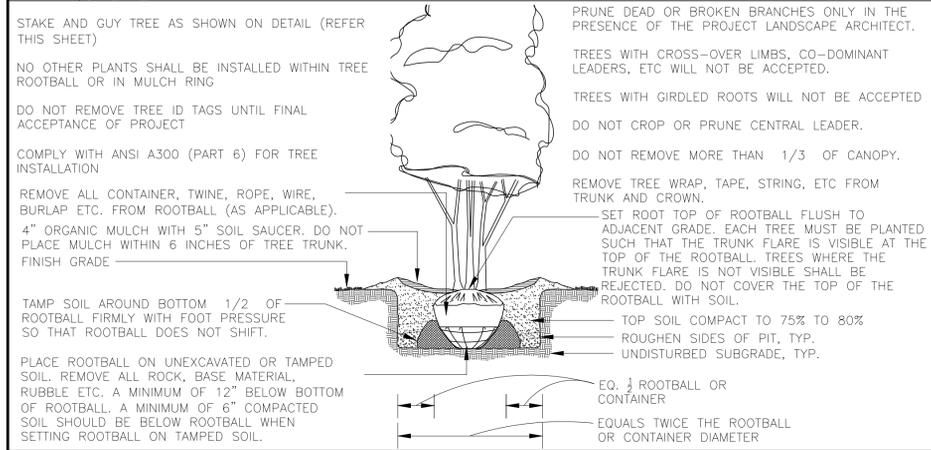
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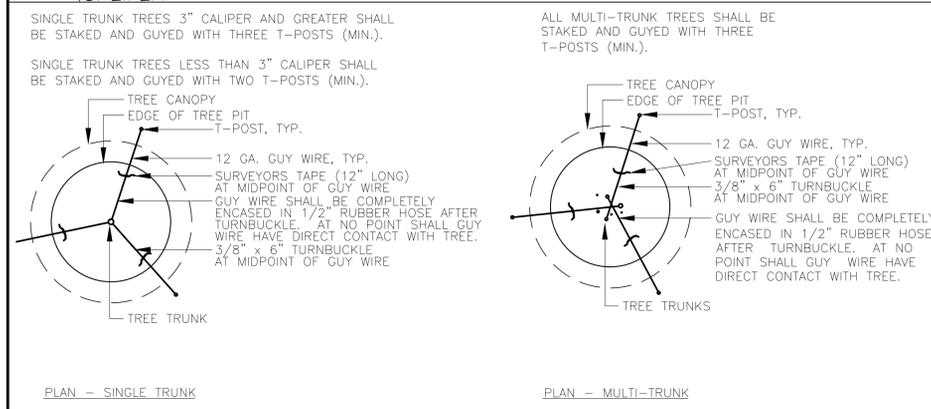
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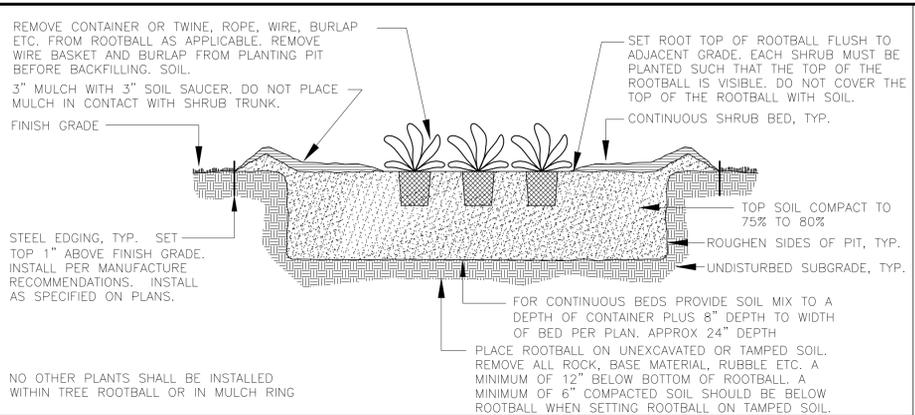
1  
L101 TREE PLANTING DETAIL (SINGLE TRUNK) GREATER THAN 3" CALIPER NO SCALE



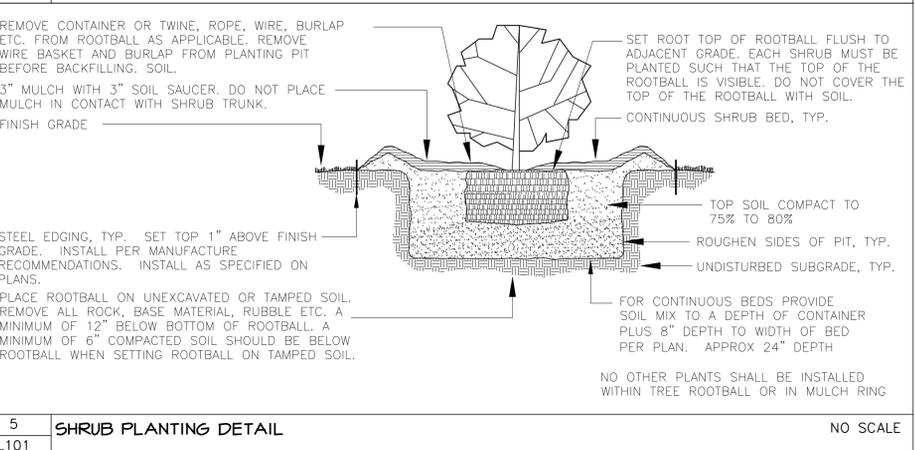
2  
L101 TREE PLANTING DETAIL (MULTI-TRUNK) GREATER THAN 3" CALIPER NO SCALE



3  
L101 TREE STAKING DETAIL NO SCALE



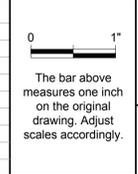
4  
L101 PERENNIAL / GROUNDCOVER PLANTING DETAIL NO SCALE



5  
L101 SHRUB PLANTING DETAIL NO SCALE



NO.	DATE	DESCRIPTION	BY



**PLANTING DETAILS**

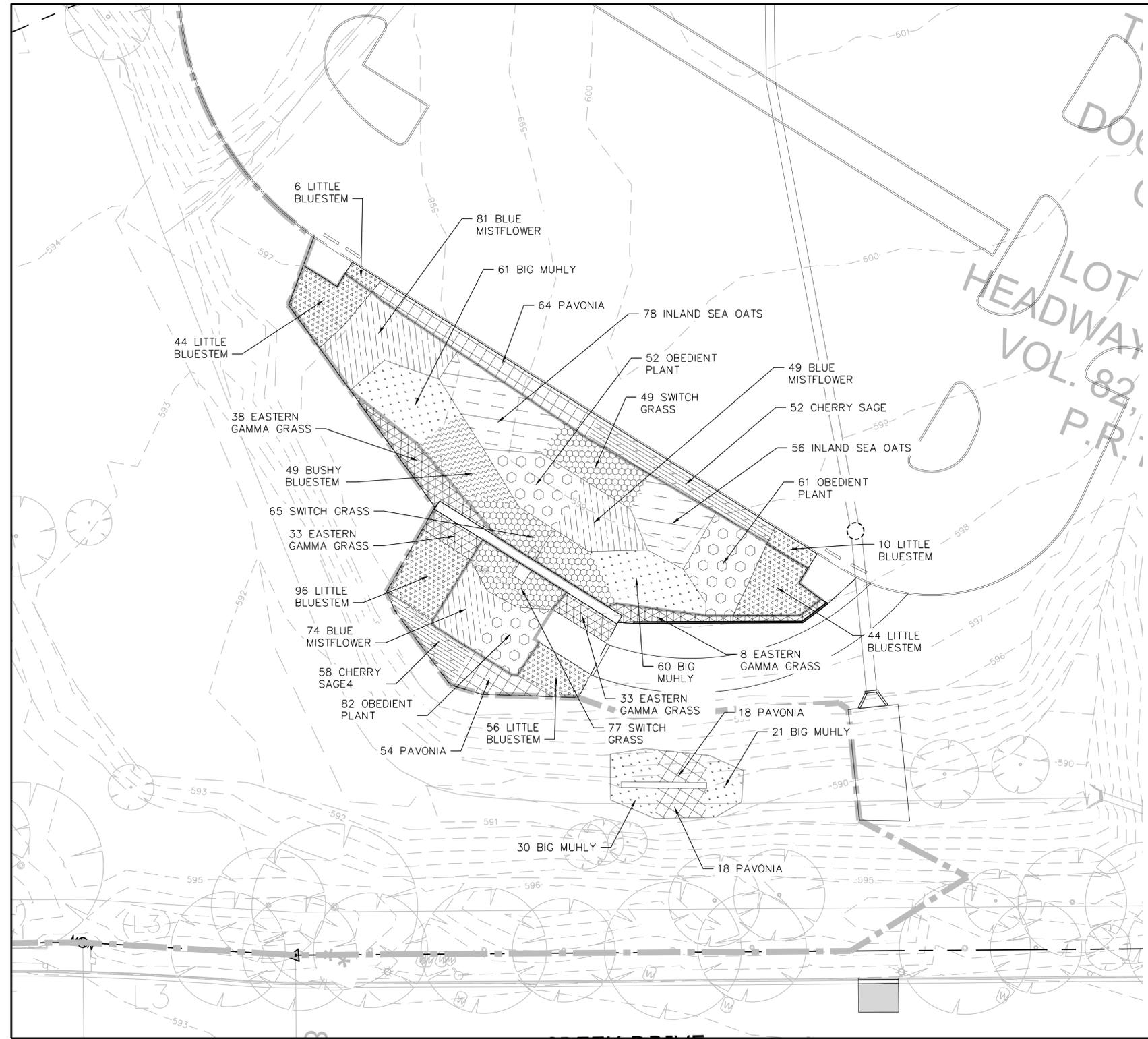
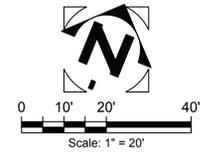
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L101

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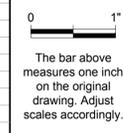


RAIN GARDEN CALCULATIONS					19-Feb-19
Sedimentation Pond Bottom	7,467	sf			
Filtration Pond Bottom	1,163	sf			
Number of Plants			Required	Provided	
Sedimentation	7,467	x 10% =	747	749	
Filtration	1,163	x 20% =	233	233	
Sedimentation Pond Required Landscape					
	Size		Equivalent 1-Gallon		
Little Bluestem	1 Gallon	88	1	88	
Bushy Bluestem	1 Gallon	49	1	49	
Obedient Plant	1 Gallon	113	1	113	
Blue Mistflower	1 Gallon	130	1	130	
Big Muhly	1 Gallon	121	1	121	
Switch Grass	1 Gallon	114	1	114	
Inland Sea Oats	1 Gallon	134	1	134	
				749	
Filtration Pond Required Landscape					
	Size		Equivalent 1-Gallon		
Blue Mistflower	1 Gallon	74	1	74	
Obedient Plant	1 Gallon	82	1	82	
Switch Grass	1 Gallon	77	1	77	
				233	



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**WATER QUALITY POND**

Rutherford Lane Campus Parking Lot Improvements  
1520 Rutherford Lane  
Austin, Texas 78754

PLOTTED: 08/06/2019  
JOB NO: 023-85C

L110

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File: Y:\023-85C\_Rutherford\_Park\_Lot\CAD\Sheets\02385C-LANDSCAPE\_IRG1.dwg 22x34





ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE (F.X.=TYPE a=SWITCH CONTROL I.D.)		125V. 20A. DUPLEX RECEPTACLE @ 18" AFF.
	RECESSED CAN LTG. FIXTURE (F.X.=TYPE a=SWITCH CONTROL I.D.)		125V. 20A. QUADPLEX RECEPTACLE
	WALL BRACKET LTG. FIXTURE (F.X.=TYPE a=SWITCH CONTROL I.D.)		125V. 20A. DUPLEX RECEPTACLE (GFI = GROUND FAULT CIRCUIT INTERRUPTER, 'WP' = WEATHERPROOF/ WEATHER RESISTANT, 'WU' = WHILE-IN-USE, 'TR' = TAMPER RESISTANT, 'IG' = ISOLATED GROUND 'CLG' = CEILING MOUNTED)
	EMERGENCY LIGHT (F.X.=TYPE a=SWITCH CONTROL I.D.)		125V. 20A. DUPLEX OR QUADPLEX RECEPTACLE MOUNT @ 8" ABOVE COUNTERTOP OR 42" AFF
	EMERGENCY LIGHT NIGHT LIGHT (F.X.)		SAME AS ABOVE EXCEPT FED FROM MODULAR WIRING SYSTEM
	CEILING MTD EXIT LIGHT WITH ARROWS ('EX' = TYPE)		(WALL, FLOOR) SPECIAL PURPOSE RECEPTACLE
	WALL MOUNTED EXIT LIGHT (EX = TYPE)		RECEPTACLE IN FLOOR BOX
	SITE POLE LIGHT (S.X' = TYPE)		125V. 20A. SIMPLEX RECEPTACLE @ 18" AFF.
	CEILING MOUNTED MANUAL ON DUAL TECHNOLOGY LOW VOLTAGE OCCUPANCY SENSOR. (a=SWITCH CONTROL I.D.)		JUNCTION BOX IN WALL @ 18" AFF. (UNO) (*X' = NUMBER OF GANGS 'CLG' = CEILING MOUNTED, 'FLR' = FLOOR MOUNTED)
	CEILING MOUNTED AUTOMATIC ON DUAL TECHNOLOGY LOW VOLTAGE OCCUPANCY SENSOR. (a=SWITCH CONTROL I.D.)		SERVICE MOUNTED RACEWAY REFER TO DETAILS/SPECIFICATIONS
	WALL MOUNTED OCCUPANCY SENSOR @ 46" TO CENTER.		HORIZONTAL SURFACE FEED
	120-277V, 20A TOGGLE SWITCH @ 46" TO CENTER. (a=SWITCH CONTROL I.D.)		CONCEALED FEED
	120-277V, 20A THREE WAY TOGGLE SWITCH @ 46" TO CENTER. (a=SWITCH CONTROL I.D.)		FLOOR BOX FOR POWER, DATACOM, AND A / V "X" IS THE TYPE, REFER TO SPECIFICATIONS
	120-277V, 20A FOUR WAY TOGGLE SWITCH @ 46" TO CENTER. (a=SWITCH CONTROL I.D.)		FIRE RATED POKE-THRU, "X" IS THE TYPE REFER TO POKE-THRU SCHEDULE
	120-277V, 20A DIMMER SWITCH (XXXX WATT-RATING) (a=SWITCH CONTROL I.D.)		CONTACTOR ('X' = DESIGNATION)
	0-10V DIMMER SWITCH (a=SWITCH CONTROL I.D.)		TIME CLOCK
	120-277V, 20A KEYED SWITCH @ 46" TO CENTER. (a=SWITCH CONTROL I.D.)		PUSHBUTTON @ 46" TO CENTER.
	120-277V, 20A MOTOR RATED SWITCH		HAND DRYER
	120-277V, 20A TOGGLE SWITCH WITH PILOT "ON" FEATURE @ 46" TO CENTER.		ELECTRIC EYE FOR OVERHEAD DOOR
	120-277V, 20A SPRING-WOUND TIMER @ 46" TO CENTER.		ELECTRIC LOCK, BY SECURITY CONTRACTOR
	SPECIAL SWITCHING DEVICE @ 46" TO CENTER.		TELEVISION OUTLET
	NON-FUSED DISCONNECT/SAFETY SWITCH (XX' IS AMPERAGE RATING OF THE SWITCH)		WALL SPEAKER, CEILING SPEAKER
	FUSED DISCONNECT/SAFETY SWITCH (XX' IS AMPERAGE RATING OF THE FUSE)		VOLUME CONTROL @ 46" TO CENTER.
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH		CLOCK
	VARIABLE FREQUENCY DRIVE		LV CABLING OUTLET @ 18" AFF.
	PANELBOARD ('XX' = DESIGNATION)		LV CABLING OUTLET MOUNT @ 8" ABOVE COUNTERTOP
	DRY-TYPE TRANSFORMER		CARD ACCESS DEVICE @ 44" AFF.
	GROUND BUS		AMPLIFIER RACK
	UNI-STRUT		TEACHERS RACK
	LOW VOLTAGE SLEEVE, WITH EMT BUSHINGS ON BOTH ENDS, ('X' INDICATES SIZE)		CIRCUIT HOMERUN TO PANELBOARD (XX' = PANELBOARD DESIGNATION)
	NEW DEVICE/EQUIPMENT		BELOW GRADE CIRCUIT HOMERUN TO PANELBOARD (XX' = PANELBOARD DESIGNATION)
	DEVICE/EQUIPMENT EXISTING TO REMAIN		ABOVE GRADE CONDUIT
	DEVICE/EQUIPMENT TO BE REMOVED		BELOW GRADE CONDUIT
	DETAIL/ENLARGED PLAN CALLOUT "X" IS DETAIL/ENLARGED PLAN NUMBER "XX" IS DRAWING NUMBER		

NOTES: THIS LEGEND IS GENERAL IN NATURE. SOME OF THE LISTED SYMBOLS MAY NOT APPEAR IN THIS SET OF DRAWINGS.

ABBREVIATIONS			
A. (AMP)	AMPERES	MBH	1000 BTU PER HOUR
A (SYM.)	AMPERES SYMMETRICAL	MC	MECHANICAL CONTRACTOR
AC	ALTERNATING CURRENT	MCP	MOTOR CIRCUIT PROTECTOR
AD	ACCESS DOOR	MIN.	MINIMUM
AFD	ADJUSTABLE FREQUENCY DRIVE	MTR.	MOTOR
AFF	ABOVE FINISHED FLOOR	MTD.	MOUNTED
AFG	ABOVE FINISHED GRADE	MVD	MANUAL VOLUME DAMPER
AHJ	AUTHORITY HAVING JURISDICTION	(N)	NEW
AIC	AMPS INTERRUPTING CAPACITY	NC	NORMALLY CLOSED
AR	ACID RESISTANT	N.C.	NOISE CRITERIA
ATP	AUTOMATIC TRAP PRIMER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AVTR	ACID VENT THROUGH ROOF	NETA	NATIONAL ELECTRICAL TESTING ASSOCIATION
AW	ACID WASTE	NF	NON-FUSED
AWG	AMERICAN WIRE GAGE	NIC	NOT IN CONTRACT
BFG	BELOW FINAL GRADE	NO	NORMALLY OPEN
BLDG.	BUILDING	NO.	NUMBER
BTU	BRITISH THERMAL UNITS	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	OBD	OPPOSED BLADE DAMPER
C.	CONDUIT	OPCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CAB.	CABINET	OHD	OPEN HUB DRAIN
C/B	CIRCUIT BREAKER	P.	POLE (S)
C/L	CENTERLINE	PB	PULL BOX, PUSH-BUTTON
CFH	CUBIC FEET PER HOUR	PD	PRESSURE DROP
CFM	CUBIC FEET PER MINUTE	PF	POWER FACTOR
CKT.	CIRCUIT	PH.	PHASE
CLG.	CEILING	PLBG.	PLUMBING
COM	COMMUNICATION CONDUIT	PNL.	PANELBOARD
CONT.	CONTINUE	POC	POINT OF CONNECTION
CONN.	CONNECT (ION)	PR.	PAIR
CO	CLEANOUT	QUAD.	QUADRUPLX
COP	COEFFICIENT OF PERFORMANCE	RA	RETURN AIR
CT	CURRENT TRANSFORMER	RF.	ROOF
CW	DOMESTIC COLD WATER	RPM	REVOLUTIONS PER MINUTE
DB	DRY BULB	SA	SUPPLY AIR
DC	DIRECT CURRENT	SCCR	SHORT CIRCUIT CURRENT RATING
DISC.	DISCONNECT	SD	SOFT-DRAWN
DN	DOWN	SEER	SEASONAL ENERGY EFFICIENCY RATING
DS	DOWN SPOUT	SHT.	SHEET
DWGS.	DRAWINGS	SOV	SHUT-OFF VALVE
DYCO	DOUBLE YARD CLEANOUT	SP	STATIC PRESSURE
EA.	EACH	SPECS.	SPECIFICATIONS
EA	EXHAUST AIR	STL.	STEEL
EAT	ENTERING AIR TEMPERATURE	SW.	SWITCH
EC	ELECTRICAL CONTRACTOR	SWBD.	SWITCHBOARD
EER	ENERGY EFFICIENCY RATING	SWGR.	SWITCHGEAR
EFF.	EFFICIENCY	T.	TRIP
ENCL.	ENCLOSURE	T/S	TWISTED/SHELD
EXIST., (E)	EXISTING	TERM.	TERMINATION
F.	FUSE(D), FRAME	T-M	TAMPER RESISTANT
FCO	FLOOR CLEANOUT	TR	THERMAL-MAGNETIC
FLEX.	FLEXIBLE	TSP	TOTAL STATIC PRESSURE
FFI	FINS PER INCH	TU	TERMINAL UNIT
FRP	FIRE RETARDANT PIPE	TYP.	TYPICAL
FVNR	FULL VOLTAGE NON-REVERSING	UL	UNDERWRITERS LABORATORY
GND.	GROUND	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	V.	VENT
GR.	GRADE	VIB	VALVE IN BOX
GRC	GALVANIZED RIGID CONDUIT	VAC	VOLTS AC
HB	HOSE BIBB	VDC	VOLTS DC
HD	HARD-DRAWN	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HW	DOMESTIC HOT WATER	VAV, VVT	VARIABLE AIR VOLUME TERMINAL
HZ.	HERTZ (CYCLES PER SECOND)	VT	VOLTAGE TAP OR TRANSDUCER
IG	ISOLATED GROUND	W.	WATT, WIRE
IMB	ICE MACHINE BOX	W/	WITH
ISO.	ISOLATION	WAP	WIRELESS ACCESS POINT
K	KILO / THOUSAND	WP	WET BULB
KCMIL	THOUSAND CIRCULAR MILS	WCO	WALL CLEANOUT
KV	KILO-VOLTS	WG	WATER GAUGE
KVA	KILO-VOLT x AMPERES	WHA	WATER HAMMER ARRESTER
KW	KILO-WATT	WU	WHILE IN USE
KWHR	KILO-WATT HOUR (KW x HR.)	WMB	WASHING MACHINE BOX
LAT	LEAVING AIR TEMPERATURE	WP	WEATHERPROOF
LR	LONG RADIUS	WPD	WATER PRESSURE DROP
LTG.	LIGHTING	WR	WEATHER RESISTANT
MAX.	MAXIMUM	XFMR.	TRANSFORMER
		YCO	YARD CLEANOUT

NOTE: THIS LEGEND IS GENERAL IN NATURE. SOME OF THE LISTED SYMBOLS MAY NOT APPEAR IN THIS SET OF DRAWINGS.

### GENERAL NOTES

- IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE AND WORKABLE INSTALLATION BE PROVIDED. TO THIS END, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPERVISION, TRANSPORTATION, WAREHOUSING, AND OTHER SERVICES REQUIRED TO COMPLETE THE WORK IN AN EFFICIENT AND TIMELY MANNER.
- ALL WORK, INCLUDING MATERIALS AND WORKMANSHIP, SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL CODES, LAWS, AND ORDINANCES AND THE NEC, INTERNATIONAL FIRE CODES, AND NFPA 101. WORK SHALL BE COMPLETE IN ALL RESPECTS AND IN ACCORDANCE WITH THE BEST ESTABLISHED AND ACCEPTED CONSTRUCTION PRACTICES.
- CONTRACTOR SHALL FURNISH, INSTALL/ERECT AND MAINTAIN, FOR THE DURATION OF THE WORK, ALL GUARDRAILS, LIGHTS, WARNING SIGNS, STAGING, VENTILATION, ETC. REQUIRED BY LOCAL AND STATE LAWS AND ORDINANCES, INCLUDING THE SAFETY ORDERS OF OSHA.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND SHALL BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THIS CONTRACTOR ACCEPTS THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED.
- CONTRACTOR SHALL PROTECT EXISTING BUILDINGS, STRUCTURES AND UTILITIES FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
- THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED.
- ALL INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, REQUIRED CLEARANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF ALL EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK AND TO THE WORK OF OTHER TRADES.
- CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT THE WORK AND EQUIPMENT. CONTRACTOR SHALL COORDINATE THE WORK WITH THE WORK OF OTHER TRADES AND ALL JOB CONDITIONS.
- CONTRACTOR SHALL HAVE A COMPETENT SUPERINTENDENT PRESENT AT THE JOB SITE AT ALL TIMES, WITH AUTHORITY TO ACT FOR THE CONTRACTOR.
- ALL CONTRACTOR PERSONNEL WILL BE RESTRICTED TO THE PARTICULAR JOB SITE OF THIS CONTRACT.
- UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ANY APPARATUS, APPLIANCE, DEVICE, MATERIAL, OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR TESTING AND OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL MISCELLANEOUS IRON AND STEEL WORK REQUIRED TO PROPERLY INSTALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WORK INCLUDES ALL HANGERS, SUPPORTS, RACKS, BRACKETS AND ANY WELDING REQUIRED.
- ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ALL MECHANICAL, ELECTRICAL AND CONTROL EQUIPMENT TO PERMIT READY AND SAFE OPERATION, EXAMINATION AND MAINTENANCE.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A DAILY RECORD OF ALL DEVIATIONS FROM THE BID DRAWINGS. ALL DIMENSIONS AND OTHER INFORMATION NECESSARY TO COMPLETELY EXPLAIN AND LOCATE ALL ELEMENTS OF THESE DEVIATIONS SHALL BE RECORDED. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE, ONE COMPLETE SET OF REPRODUCIBLE DRAWINGS CORRECTED TO REFLECT "AS-BUILT" CONDITIONS OF THE WORK.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH; MAINTAIN THE WORK AREA IN A NEAT, ORDERLY MANNER, AND LEAVE THE PREMISES IN A BROOM-CLEAN CONDITION AT THE END OF EACH DAY. THE CONTRACTOR SHALL FURNISH TRASH BINS AND SHALL BE RESPONSIBLE FOR THE PROPER TRANSPORTATION AND DISPOSAL OF ALL WASTE MATERIAL.
- ANY INTERRUPTIONS AND/OR SHUTDOWN OF EXISTING SERVICES SHALL BE MADE ONLY WITH THE APPROVAL OF AND AT TIMES DESIGNATED BY OWNER.
- UPON COMPLETION OF WORK, THE CONTRACTOR SHALL DEMONSTRATE, TO THE OWNER'S SATISFACTION, THE OPERATION OF THE INSTALLED EQUIPMENT AND SYSTEMS TO THE INTENT OF THE DESIGN.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. DURING THIS PERIOD, ANY DEFECT FOUND IN MATERIAL OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- COORDINATE THE INSTALLATION REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. CHANGES REQUIRED FROM THE USE OF PRODUCTS THAT ARE OTHER THAN THE BASIS OF DESIGN SHALL BE BORNE BY THE CONTRACTOR.

**Jose I. Guerra, Inc.**  
Consulting Engineers  
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TBPE FIRM F-3



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TBAE FIRM REGISTRATION NO.: 1452  
TBPE FIRM REGISTRATION NO.: F-1416  
TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY

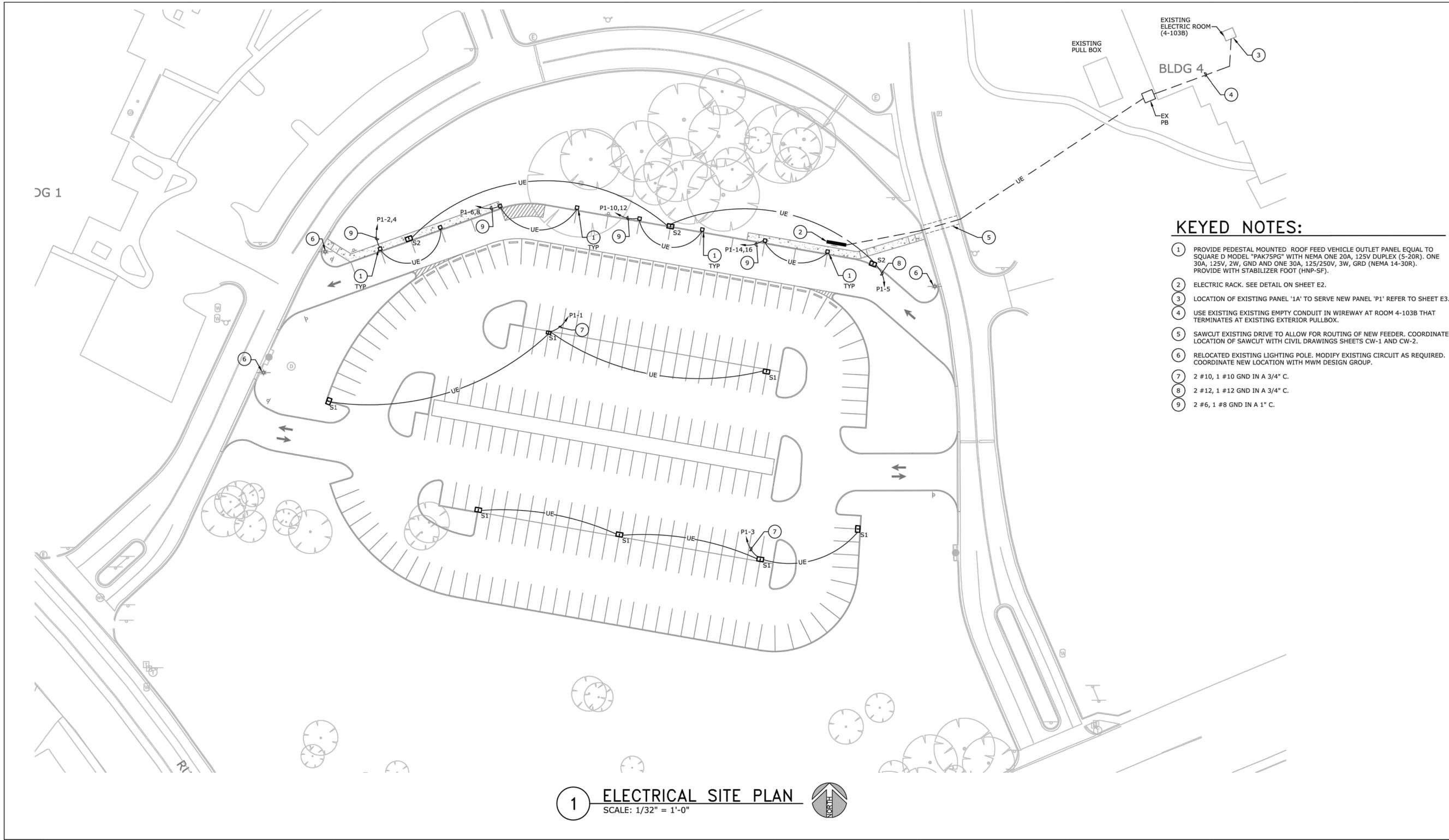
0 1"  
The bar above measures one inch on the original drawing. Adjust scales accordingly.

### ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES

RUTHERFORD LANE PARKING LOT  
1520 RUTHERFORD LANE  
AUSTIN, TX 78754

PLOTTED: 6/11/2019  
JOB NO: 023-85C

**EO**  
38 OF 44

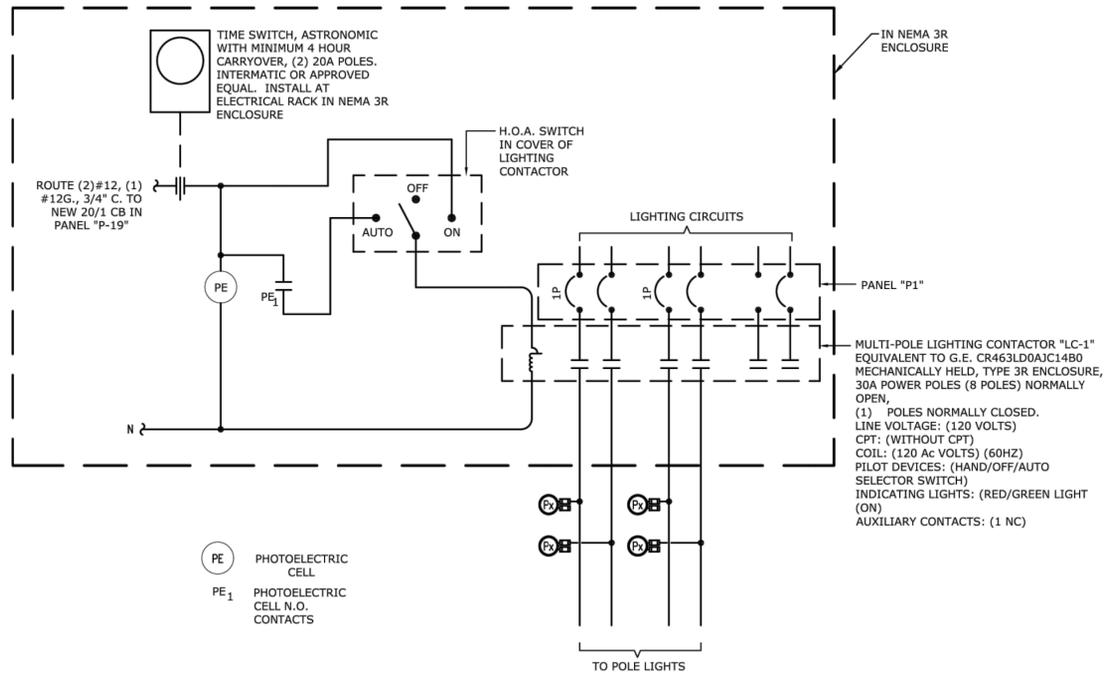


- KEYED NOTES:**
- 1 PROVIDE PEDESTAL MOUNTED ROOF FEED VEHICLE OUTLET PANEL EQUAL TO SQUARE D MODEL "PAK75PG" WITH NEMA ONE 20A, 125V DUPLEX (5-20R). ONE 30A, 125V, 2W, GND AND ONE 30A, 125/250V, 3W, GRD (NEMA 14-30R). PROVIDE WITH STABILIZER FOOT (HNP-SF).
  - 2 ELECTRIC RACK. SEE DETAIL ON SHEET E2.
  - 3 LOCATION OF EXISTING PANEL '1A' TO SERVE NEW PANEL 'P1' REFER TO SHEET E3.
  - 4 USE EXISTING EXISTING EMPTY CONDUIT IN WIREWAY AT ROOM 4-103B THAT TERMINATES AT EXISTING EXTERIOR PULLBOX.
  - 5 SAWCUT EXISTING DRIVE TO ALLOW FOR ROUTING OF NEW FEEDER. COORDINATE LOCATION OF SAWCUT WITH CIVIL DRAWINGS SHEETS CW-1 AND CW-2.
  - 6 RELOCATED EXISTING LIGHTING POLE. MODIFY EXISTING CIRCUIT AS REQUIRED. COORDINATE NEW LOCATION WITH MWM DESIGN GROUP.
  - 7 2 #10, 1 #10 GND IN A 3/4" C.
  - 8 2 #12, 1 #12 GND IN A 3/4" C.
  - 9 2 #6, 1 #8 GND IN A 1" C.

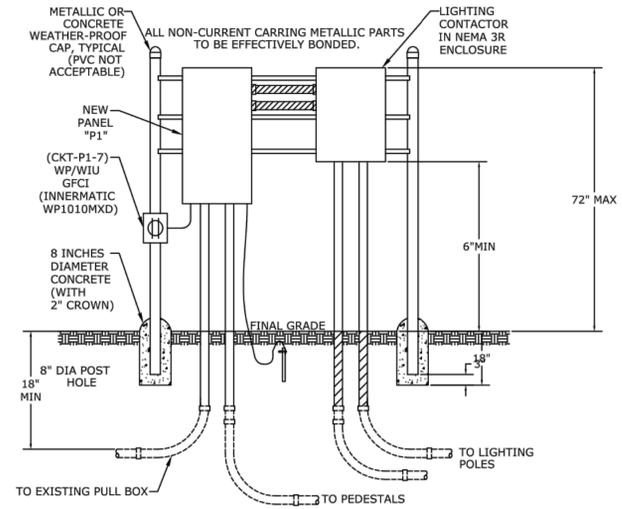
**1 ELECTRICAL SITE PLAN**  
 SCALE: 1/32" = 1'-0"  
 NORTH

 <b>Jose I. Guerra, Inc.</b> Consulting Engineers Structural • Civil • Mechanical • Electrical TBPE FIRM F-3	 JORGE A. OLIVARES 55828 6-11-2019	 <b>mwm Design Group</b> 305 East Huntland Drive Suite 200 Austin, Texas 78752 p: 512.453.0767 f: 512.453.1734 TBPE FIRM REGISTRATION NO.: 1452 TBPE FIRM REGISTRATION NO.: F-1416 TBPLS FIRM REGISTRATION NO.: 10065600	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 25%;">BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION	BY																																									 The bar above measures one inch on the original drawing. Adjust scales accordingly.	<b>ELECTRICAL SITE PLAN</b> RUTHERFORD LANE PARKING LOT 1520 RUTHERFORD LANE AUSTIN, TX 78754	PLOTTED: 6/11/2019 JOB NO: 023-85C <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>E1</b>  <small>39 OF 44</small> </div>
NO.	DATE	DESCRIPTION	BY																																															

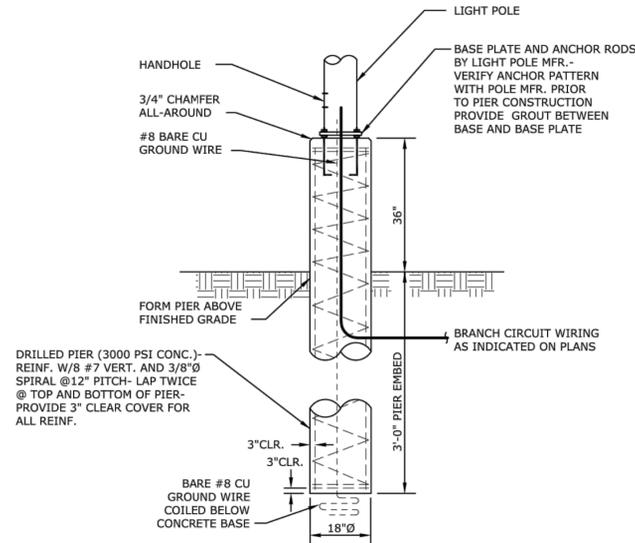
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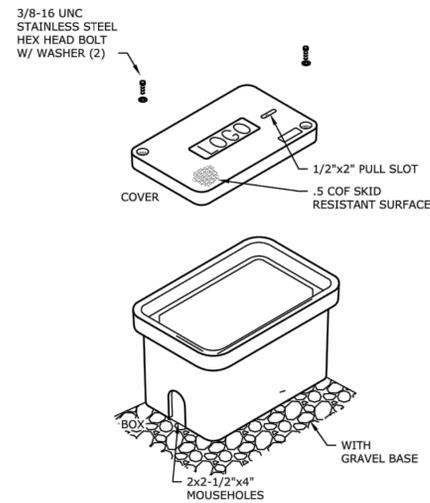
**5 NEW LIGHTING CONTACTOR CONTROL DETAIL**  
NO SCALE



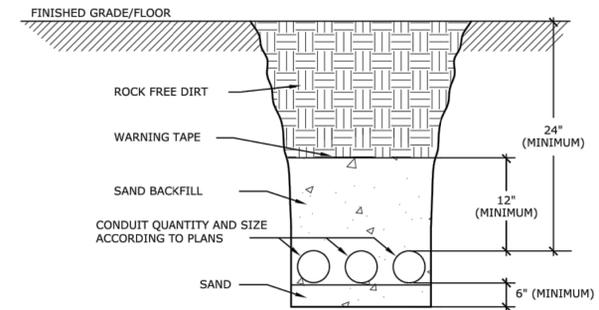
**4 ELECTRICAL RACK DETAIL**  
NO SCALE



**3 POLE LIGHTING BASE DETAIL**  
NO SCALE



**2 PULL BOX DETAIL**  
NO SCALE



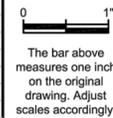
**1 FEEDER DUCTBANK DETAIL**  
NO SCALE

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TBPE FIRM F-3

STATE OF TEXAS  
Jorge A. Olivares  
Professional Engineer  
No. 55828  
6-11-2019

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TBPLS FIRM REGISTRATION NO.: 10065600

NO.	DATE	DESCRIPTION	BY



**ELECTRICAL DETAILS**

RUTHERFORD LANE PARKING LOT  
1520 RUTHERFORD LANE  
AUSTIN, TX 78754

PLOTTED: 6/11/2019  
JOB NO: 023-85C

**E2**  
40 OF 44

**LOAD INFORMATION**

RUTHERFORD LANE  
VOLTAGE: 120/208VOLT, 3-PHASE, 4-WIRE

**LOAD SUMMARY**

	VA
A/C	0
LIGHTING	629
RECEPTACLES	180
HEATING	0
WATER HEATERS	0
COMPUTERS	0
REFRIGERATION	N/A
ELEVATORS	0
MOTORS	0
OTHER	25,460
EXISTING DEMAND (IF APPLICABLE)	N/A
<b>TOTAL</b>	<b>26,269</b>

NOTES TO DESIGNER:

- 1 THE ABOVE INFORMATION IS FORMATTED TO AUSTIN ENERGY'S STANDARD.
- 2 EXISTING LOADS ARE NOT IN THE STANDARD FORMAT AND NEED TO BE LINKED AS A SEPARATE LINE ITEM. IF NEW SERVICE, DELETE THE LINE ITEM.

**LIGHTING FIXTURE SCHEDULE**

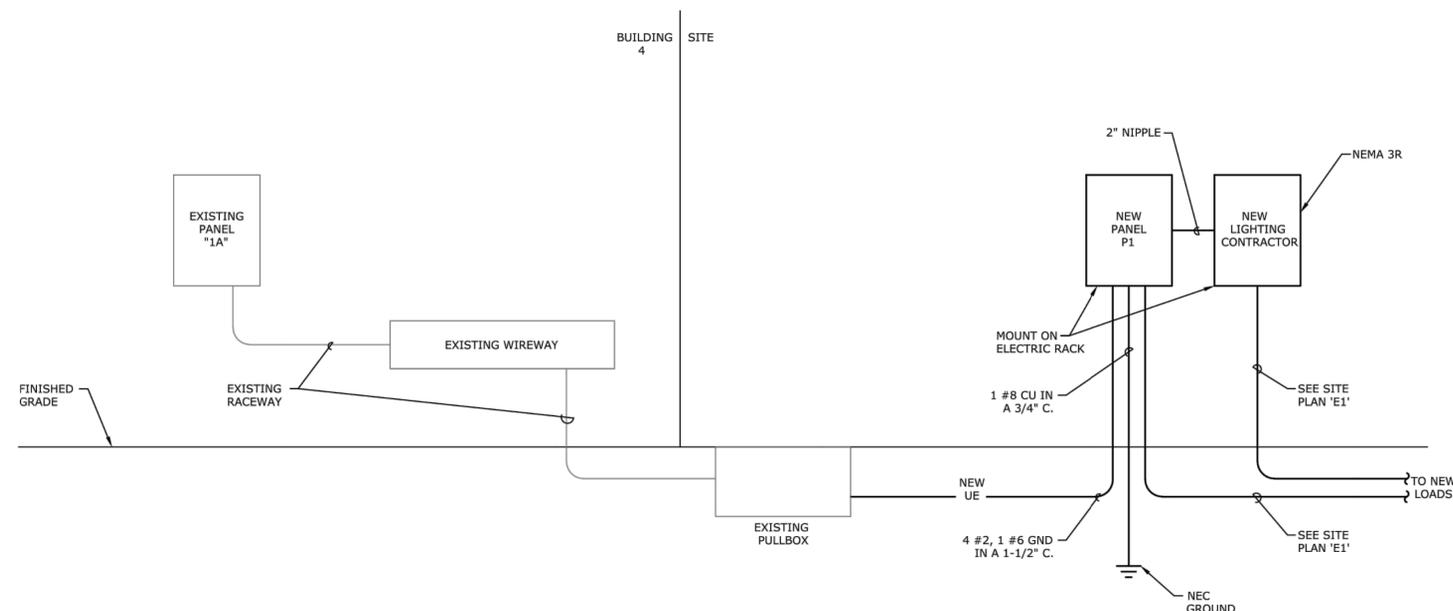
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP TYPE	LED QTY.	DRIVER TYPE	MOUNTING	VOLTAGE	WATTAGE
S1	EATON MCGRAW-EDISON	GLEON-AF-04-LED-E1-5WQ-BZ SSS-4A-20-SFN-1X	LED SITE LIGHTING FIXTURE, BRONZE, 20' MOUNTING HEIGHT ON SQUARE STRAIGHT STEEL POLE	LED 4000K	4	ELECTRONIC	20' POLE	120	225
S2	EATON MCGRAW-EDISON	GLEON-AF-04-LED-E1-T2-BZ SSS-4A-20-SFN-1X	LED SITE LIGHTING FIXTURE, BRONZE, 20' MOUNTING HEIGHT ON SQUARE STRAIGHT STEEL POLE	LED 4000K	4	ELECTRONIC	20' POLE	120	225

**PANEL 'P1'**

PROJECT: RUTHERFORD LANE  
PROJECT #: 17045  
LOCATION: ELECTRICAL RACK  
DATE: 10-Jun-2019  
MAIN CIRCUIT BREAKER 100-AMPS  
BUSSING: 125-AMPS  
VOLTAGE: 208/120V, 3PH, 4W  
BRACING: 22 KAIC RMS SYM  
ENCLOSURE: NEMA 3-R  
MOUNTING: SURFACE  
CB TYPE: BOLT-ON  
PROVIDE: NEUTRAL BUS  
GROUND BUS

CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	LIGHTING POLES	168	1	A	2	3,120	PEDESTAL	60	2	2
3	20	1	LIGHTING POLES	168	1	B	2	3,120	-	-	-	4
5	20	1	LIGHTING POLES	175	1	C	2	3,120	PEDESTAL	60	2	6
7	20	1	RECEPTACLE	180	0	A	2	3,120	-	-	-	8
9	20	1	LIGHTING CONTACTOR	500	2	B	2	3,120	PEDESTAL	60	2	10
11	20	1	SPARE	-	-	C	2	3,120	-	-	-	12
13	20	1	SPARE	-	-	A	2	3,120	PEDESTAL	60	2	14
15	20	1	SPARE	-	-	B	2	3,120	-	-	-	16
17			BUSSED SPACE	-	-	C			SPARE	20	1	18
19			BUSSED SPACE	-	-	A			SPARE	20	1	20
21			BUSSED SPACE	-	-	B			SPARE	20	1	22
23			BUSSED SPACE	-	-	C			SPARE	20	1	24

	PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	AMPS	NOTES
PHASE A	9,708	0	0	9,708	9,755	81	
PHASE B	10,028	0	0	10,028	10,077	84	
PHASE C	6,415	0	0	6,415	6,446	54	
TOTAL	26,151	0	0	26,151	26,279	73	



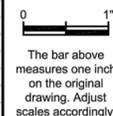
**1 ONE-LINE DIAGRAM**  
NO SCALE

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**ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES**

RUTHERFORD LANE PARKING LOT  
1520 RUTHERFORD LANE  
AUSTIN, TX 78754

PLOTTED: 6/11/2019  
JOB NO: 023-85C

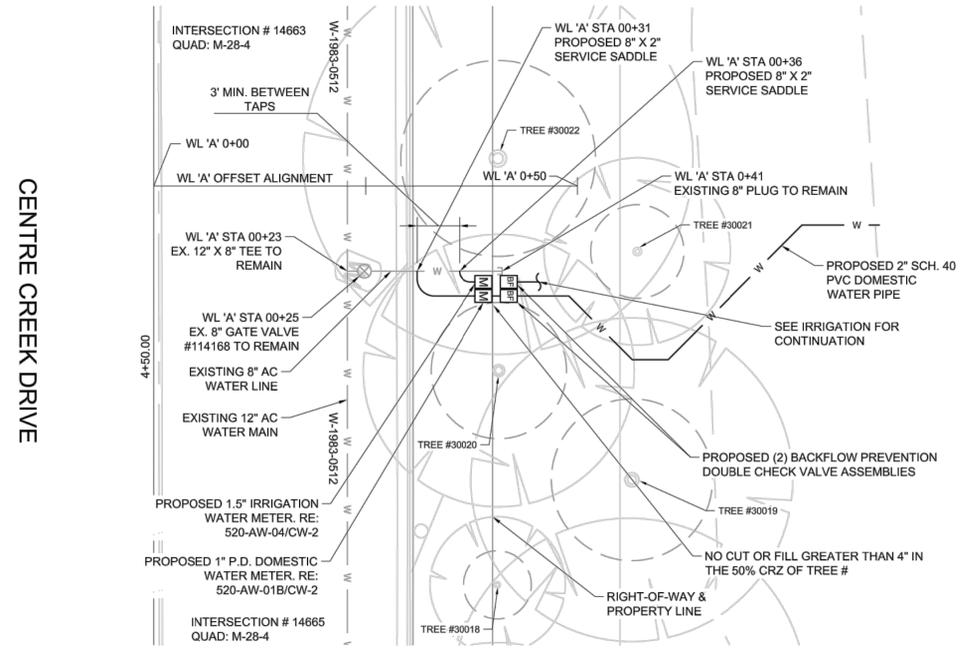
**E3**  
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**CIVIL DOMESTIC ENLARGED WATER PLAN**

SCALE 1" = 10'-0"

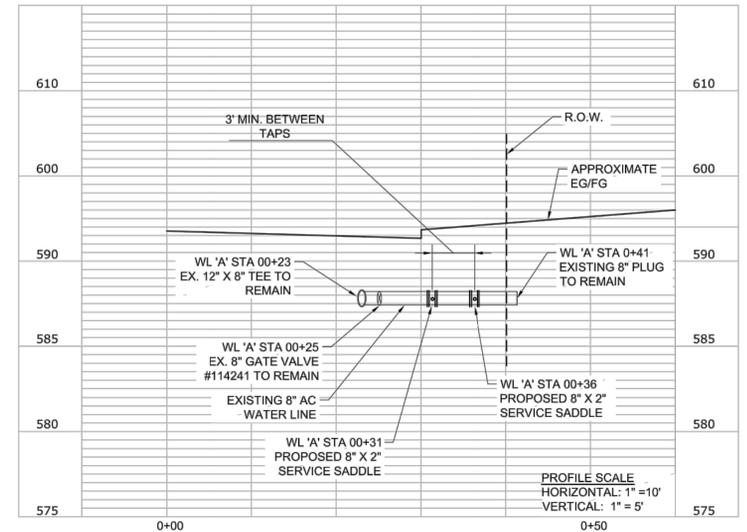


**GENERAL UTILITY NOTE:**  
 THE PROFILE ELEVATIONS SHOWN THIS SHEET FOR THE EXISTING 8" AC WATER MAIN WAS OBTAINED FROM AS-BUILT DRAWINGS; AW PROJECT W-1983-0512. CONTRACTOR TO POTHOLE AND FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

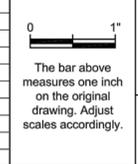
**EXISTING TREE NOTE:**  
 REFER TO SHEET C003 EXISTING CONDITIONS AND SHEET C004 EXISTING CONDITIONS FOR THE TREE TABLE.

**SPECIAL ASBESTOS NOTE:**  
 CONTRACTORS AND SUBCONTRACTORS MUST BE ALERT TO THE PRESENCE OF ASBESTOS CONCRETE PIPE (AC PIPE) AND BE KNOWLEDGEABLE OF HOW TO IDENTIFY IT. ONLY LICENSED PERSONNEL ARE PERMITTED TO DISTURB, REMOVE, TRANSPORT AND DISPOSE OF AC PIPE.

**CIVIL DOMESTIC 8" WL 'A' PROFILE**



NO.	DATE	DESCRIPTION	BY



**CIVIL DOMESTIC WATER UTILITY PLAN AND PROFILE**

RUTHERFORD LANE PARKING LOT  
 1520 RUTHERFORD LANE  
 AUSTIN, TX 78754

PLOTTED: 6/11/2019  
 JOB NO: 023-85C

**CW-3**  
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File: F:\17028\_Rutherford\_Lane\_Parking\_Lot\DRAWINGS\CAD\17028\_W1 - Domestic Water Utility Plan.dwg 22x34