<u>CONTACTS</u>

<u>OWNER</u>:

AUSTEX AGGREGATES, LLC 3721 CR 239

Georgetown, TX 78633

LAND SURVEYOR:



ENGINEER: SANDLIN SERVICES, LLC 4501 WHISPERING VALLEY DR. UNIT#27 AUSTIN, TEXAS 78727

(806)679-7303 CONTACT: NICHOLAS SANDLIN, P.E.

BLUE GOOSE MATERIALS SITE GRADING AND DRAINAGE CONSTRUCTION P

NOTES:

- 1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- 2. THIS SITE IS LOCATED WITHIN TRAVIS COUNTY WITHIN THE CITY OF AUSTIN ETJ AND TRAVIS COUNTY.
- 3. 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.
- 4. ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO 48453C0460K, DATED 01/6/2016, THIS TRACT LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAIN.
- 5. THE CONTRACTOR OR SURVEYOR WILL OBTAIN A DIGITAL COPY OF THE CAD FILES THAT REPRESENT THESE IMPROVEMENTS; SANDLIN SERVICES, LLC AND IT'S ASSOCIATES TAKE NO RESPONSIBILITY FOR THE LOCATION OF THESE IMPROVEMENTS IN ANY COORDINATE SYSTEM. DIGITAL FILES USED TO PRODUCE THESE PLANS WERE PARTIALLY CREATED BY PARTIES OTHER THAN SANDLIN SERVICES, LLC AND ARE NOT INTENDED FOR USE IN CONSTRUCTION STAKING. VERTICAL AND HORIZONTAL DATA SHALL BE INDEPENDENTLY VERIFIED BY CONTRACTOR'S R.P.L.S.
- 6. SANDLIN SERVICES, LLC HAS ENDEAVORED TO DESIGN THESE PLANS COMPLIANT WITH ADA/TDLR AND OTHER ACCESSIBILITY REQUIREMENTS. HOWEVER, THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY RESPONSIBILITY FOR CONSTRUCTING THESE IMPROVEMENTS COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY STANDARDS. IF THE CONTRACTOR NOTICES ANY DISCREPANCIES BETWEEN THESE PLANS AND ACCESSIBILITY LAWS/RULES, HE IS TO STOP WORK IN THE AREA OF CONFLICT AND NOTIFY THE ENGINEER IMMEDIATELY FOR A RESOLUTION AND/OR REVISION TO THESE PLANS. SANDLIN SERVICES, LLC SHALL NOT BE HELD RESPONSIBLE FOR CONSTRUCTING THIS SITE COMPLIANT WITH ACCESSIBILITY LAWS/RULES REGARDLESS OF WHAT IS SHOWN IN THESE PLANS.

BENCHMARK NOTE:

ALL ELEVATIONS SHOWN HEREON ARE BASED ON THE FOLLOWING BENCHMARKS AND INFORMATION. BENCHMARK NOTES:

A TRIANGLE CUT ON THE EAST END OF A CULVERT HEADWALL ON THE SOUTH SIDE OF BLUE GOOSE RD. 1.13 MI. WEST OF GILES RD. EL: 593.12

CONTACT SURVEYOR PRIOR TO SETTING ELEVATION CONTROL FOR MORE DATA.

CONTRACTOR NOTES:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE, HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM 1-800-245-4545, OR THE OWNER OF EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

ENVIRONMENTAL INSPECTION HAS THE AUTHORITY TO MODIFY/CHANGE EROSION AND SEDIMENTATION CONTROLS TO KEEP THE PROJECT IN COMPLIANCE.

REVISE (R) NET TOTAL SITE ADD (D) total # CHANGE IMP. VOID (V) | SHEETS IN | IMP. COVER | COVER APPROVAL/ DESCRIPTION SHEET NO.'s PLAN SET DATE (sq.ft.) (sq.ft.)/%

CORRECTIONS RECORD

ADDRESS:

5505 BLUE GOOSE RD.

TRAVIS COUNTY, TEXAS 78754



PROJECT LOCATION MAP N.T.S.

	S
Sheet Number	Sheet
1	COVER
2	GENERA
3	EXISTIN
4	EROSIO
5	EXISTIN
6	PROPOS
7	SITE PL
8	SITE PL
9	GRADIN
10	WATER
11	WATER
12	DETENT
13	DRAINA

APPROVED BY:

TRAVIS COUNTY T.N.R.

TRAVIS COUNTY PERMIT NUMBER

CITY OF AUSTIN DEVELOPMENT SERVICES DEPARTMENT

COA PERMIT NUMBER

TRAVIS COUNTY FIRE MARSHAL



DATE IMAGED

L		S



DATE OF SUBMITTAL: 8/24/2020

Sheet List Index Title PAGE AL NOTES NG CONDITIONS	WATERSHED: WALNUT CREEK (SUBURBAN) FEMA PANEL: 48453C0460K TRACT SIZE: 29.00 ACRES CITY OF AUSTIN GRID: P29 MAPSCO PAGE NUMBER: 527R LANDUSE ZONING: NONE (ETJ) TOTAL BUILDING SF: 200 SF TOTAL BUILDING SF: 200 SF TOTAL EXISTING IMPERVIOUS COVER: 26,528 SF TOTAL PROPOSED IMPERVIOUS COVER: 118,825 SF (EXISTING AND PROPOSED IMPERVIOUS COVER 11.50% OF TOTAL PROPERTY) LIMITS OF CONSTRUCTION: 5.3 AC
N & SEDIMENTATION CONTROL PLAN NG DRAINAGE AREA MAP	LEGAL DESCRIPTION: 29.00 AC OF LAND, MORE OR LESS, OUT OF THE LUCAS MUNOS SURVEY NO. 55, ABSTRACT NO. 513 IN TRAVIS COUNTY, TEXAS
LAN 2 OF 2	SITE NOTES: THIS SITE LIES OUTSIDE OF THE EDWARDS AQUIFER RECHARGE ZONE.
NG PLAN	JURISDICTION: CITY OF AUSTIN 2 MILE ETJ (TRAVIS COUNTY)
QUALITY AND DETENTION POND 1 OF 2	WATER QUALITY CONTROLS NOT PROVIDED FOR IMPERVIOUS PERCENTAGE OF LESS THAN 20% (EXISTING AND PROPOSED 11.50% OF TOTAL
QUALITY AND DETENTION POND 2 OF 2	UTILITIES
TION POND DETAILS AGE & CONSTRUCTION DETAILS	AUSTIN ENERGY (NO NEW SERVICE PROPOSED WITH THIS SITE PLAN) NO WASTEWATER PROPOSED
	NO WATER PROPOSED
DATE	

CITY APPROVAL	ENGINEERING CONSULTING SANDLIN SERVICES, LLC
SITE PLAN RELEASE FILE NUMBER: EXPIRATION DATE: CASE MANAGER: APPLICATION DATE: MARCH 31, 2020	TBPELS FIRM #21356 4501 WHISPERING VALLEY DRIVE UNIT 27 AUSTIN, TX 78727
APPROVED ADMINISTRATIVELY ON:	COVER PAGE
Director, Development Services Department DATE OF RELEASE: Zoning: GR-MU-CO-NP Rev 1 Correction 1 Rev 2 Correction 2 Rev 3 Correction 3	BLUE GOOSE MATERIALS
	CASE: 2020-26-SDP DATE: 8-21-2020
REV. BY DATE	REVISION DESCRIPTION 1
	OF 14

GENERAL 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. CONTRACTOR SHALL TELEPHONE "ONE-CALL" SYSTEM @ 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS BEFORE BEGINNING CONSTRUCTION.

3. BEFORE BEGINNING ACTUAL EXCAVATION AND CONSTRUCTION OPERATION THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING FACILITIES IN THE AREA SO THESE COMPANIES CAN DETERMINE IF THE PROPOSED CONSTRUCTION WILL CONFLICT WITH THEIR FACILITIES. CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITIES AT A MINIMUM: 1. CITY OF AUSTIN WATER AND WASTEWATER UTILITY

- . CITY OF AUSTIN ELECTRIC UTILITY
- AUSTIN GAS COMPANY 4. AT&T TELEPHONE COMPANY

4. ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.

5. THE BIDDER (CONTRACTOR AFTER AWARD) SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY UNREPORTED OBSTACLES OR DISCREPENCIES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.

6. THE CONTRACTOR SHALL MAINTAIN CLEAR PASSAGE FOR LOCAL TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

7. ALL WORK AND MATERIAL MUST MEET THE APPLICABLE CITY OF AUSTIN STANDARD SPECIFICATIONS AND CITY OF AUSTIN STANDARDS, LATEST REVISIONS.

8. CONTRACTOR/REPAIR CREW MUST NOTIFY CITY INSPECTOR AT LEAST TEWNTYFOUR (24) HOURS PRIOR TO BEGINNING PERMANENT BACK FILL OPERATIONS.

9. BACK FILL DENSITY SHALL BE AS SPECIFIED IN ITEM 510 OF THE STANDARD SPECIFICATIONS. TEST METHODS SHALL BE AS SPECIFIED IN THE CITY STANDARD SPECIFICATIONS UNLESS INDICATED OTHERWISE IN WRITING BY THE ENGINEER.

10. 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.

11. 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.

12. CONTRACTOR SHALL NOT ALLOW TRAFFIC ON NEWLY PLACED CONCRETE FOR AT LEAST 72 HOURS UNLESS OTHERWISE APPROVED IN ADVANCE BY THE ENGINEER.

13. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PROTECT ROADWAY FACILITIES AT ALL TIMES.

14. WHERE REMOVAL OF BASE AND PAVEMENT IS NECESSARY FOR THIS PROJECT ALL BASE AND PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CITY'S STANDARD SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR CUTS IN PUBLIC RIGHT OF WAY. ALL PAVEMENT CUTS SHALL BE SAW CUT PRIOR TO PLACEMENT OF H.M.A.C.

15. ALL WATER AND WASTEWATER SYSTEM IMPROVEMENTS, UTILITY CHANGES AND UTILITY RELOCATIONS MUST BE IN ACCORDANCE TO CITY OF AUSTIN WATER AND WASTEWATER SYSTEM DESIGN CRITERIA AND SPECIFICATIONS. ALL WATER AND WASTEWATER PLANS MUST BE PRESENTED TO THE CITY OF AUSTIN WATER AND WASTEWATER UTILITY FOR REVIEW AND APPROVAL. ALL WATER AND WASTEWATER CONSTRUCTION MUST BE INSPECTED BY THE CITY OF AUSTIN.

16. CONTRACTOR SHALL PROVIDE TEMPORARY DRIVEWAY ACCESS FOR ALL PROPERTY OWNERS ADJACENT TO CONSTRUCTION AREAS EXCEPT DURING PERIODS WHEN CONSTRUCTION IN THE AREA WOULD MAKE ACCESS UNSAFE. EMERGENCY ACCESS SHALL BE IMMEDIATELY PROVIDED TO DRIVEWAYS DURING CONSTRUCTION ON AN AS-NEEDED BASIS.

17. 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.

18. NO EXPLOSIVES SHALL BE USED FOR THIS PROJECT WITHOUT A BLASTING PERMIT FROM THE CITY OF AUSTIN.

19. 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.

20. CONTRACTOR SHALL NOTIFY CONSTRUCTION INSPECTION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT 974-7180 TO A) ARRANGE A PRE-CONSTRUCTION MEETING NOT LESS THAN FOURTEEN (14) DAYS PRIOR TO BEGINNING CONSTRUCTION, B) NOTIFY INSPECTOR FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY CONSTRUCTION IN THE R.O.W. OR IN EASEMENTS. C) NOTIFY INSPECTOR TWENTY-FOUR (24) HOURS IN ADVANCE OF MAKING ANY SUPPLEMENTARY CONNECTION OR CLOSING OFF ANY WATER AND WASTEWATER SERVICES TO PROPERTY OWNER.

21. BEFORE DISCONNECTING ANY WATER LINE OR GAS LINE, CONTRACTOR MUST PROVIDE TWENTY-FOUR (24) HOUR NOTICE TO THE OWNER EXCEPT IN THE CASE OF A BONA FIDE EMERGENCY.

22. 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 (TMUDTC), THE CITY OF AUSTIN STANDARD SPECIFICATION SERIES 800, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL. IF A CONFLICT ARISES, THEN THE SERIES 800 SPECIFICATIONS SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.

23. 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.

24. INSTALLATION OF CONSTRUCTION BARRICADING AND SIGNING SHALL BE COORDINATED THROUGH THE TRANSPORTATION ENGINEERING AND SIGNALS DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT 974-7024.

25. ALL TRAFFIC CONTROL SIGNS SHALL REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS. IF SIGNS REQUIRE RELOCATION, CONTRACTOR SHALL CONTACT THE TRANSPORTATION ENGINEERING AND SIGNALS DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT 974-7024.

26. 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.

27. ALL HOLES, TRENCHES, AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS, AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.

28. CONTRACTOR SHALL NOTIFY PRINCIPLES OF EACH OF THE FOLLOWING ENTITIES OF THE CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION **OPERATIONS**

- A. AUSTIN FIRE DEPARTMENT B. AUSTIN POLICE DEPARTMENT
- AUSTIN INDEPENDENT SCHOOL DISTRICT
- D. CAPITAL METRO TRANSPORTATION E. U.S. POSTAL SERVICE

29. REMOVAL OF EXCAVATED MATERIALS AND DAILY CLEANUP OPERATIONS SHALL BE PERFORMED TO THE SPECIFICATIONS AND TO THE SATISFACTION OT THE OWNER AND ENGINEER.

30. UNATTENDED TRENCHES MUST BE COVERED WITH STEEL PLATES CAPABLE OF SUPPORTING VEHICULAR TRAFFIC. THESE STEEL PLATES MUST BE ADEQUATELY ANCHORED TO PREVENT THEM FROM BECOMING DISLODGED.

31. ALL CONSTRUCTION AND TRENCHING OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.

32. CONTRACTOR SHALL MAINTAIN A SUPERINTENDENT UPON THE PROJECT AT ALL TIMES WORK IS IN PROGRESS.

33. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH IS SPECIFIED ELSEWHERE IN THE PLANS.

34. FOR CONSTRUCTION IN THE RIGHT OF WAY, A CONCRETE PERMIT IS REQUIRED.

STANDARD SITE PLAN NOTES

COMPATIBILITY

- 1. HIGHLY REFLECTIVE MATERIALS WILL NOT BE USED. MATERIALS MAY NOT EXCEED 20% REFLECTIVITY. THIS REQUIREMENT SHALL NOT APPLY TO SOLAR PANELS OR TO COPPER OR PAINTED METAL ROOFS.
- TO RESIDENTIAL USES.
- 4. EXTERIOR LIGHTING ABOVE THE SECOND FLOOR IS PROHIBITED WHEN ADJACENT TO RESIDENTIAL PROPERTY.
- TWENTY (20) FEET FROM A PROPERTY USED OR ZONED AS SF-5 OR MORE RESTRICTIVE.

FIRE DEPARTMENT

- 1. THE AUSTIN FIRE DEPARTMENT REQUIRES FINAL ASPHALT OR CONCRETE PAVEMENT ON REQUIRED ACCESS ROADS PRIOR TO THE START OF COMBUSTIBLE CONSTRUCTION. ANY OTHER METHOD OF PROVIDING "ALL-WEATHER DRIVING CAPABILITIES" SHALL BE REQUIRED TO BE DOCUMENTED AND APPROVED AS AN ALTERNATIVE METHOD OF CONSTRUCTION IN ACCORDANCE WITH APPLICABLE RULES FOR TEMPORARY ROADS OUTLINED IN THE CITY OF AUSTIN FIRE PROTECTION CRITERIA MANUAL.
- 2. FIRE HYDRANTS SHALL BE INSTALLED WITH THE CENTER OF THE FOUR (4) INCH OPENING (STEAMER) LOCATED AT LEAST 18 INCHES ABOVE FINISHED GRADE. THE STEAMER OPENING OF FIRE HYDRANTS SHALL FACE THE APPROVED FIRE ACCESS DRIVEWAY OR PUBLIC STREET AND SET BACK FROM THE CURB LINE(S) AN APPROVED DISTANCE, TYPICALLY THREE (3) TO SIX (6) FEET. THE AREA WITHIN THREE (3) FEET IN ALL DIRECTIONS FROM
- THE STREET OR DRIVEWAY GIVING EMERGENCY VEHICLE ACCESS SHALL BE FREE OF OBSTRUCTIONS. 3. TIMING OF INSTALLATIONS: WHEN FIRE PROTECTION FACILITIES ARE INSTALLED BY THE CONTRACTOR, SUCH FACILITIES SHALL INCLUDE SURFACE ACCESS ROADS. EMERGENCY ACCESS ROADS OR DRIVES SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION. WHEN THE FIRE
- DOCUMENTED IN THE APPROVAL OF THE ALTERNATE METHOD. 4. ALL EMERGENCY ACCESS ROADWAYS AND FIRE LANES, INCLUDING PERVIOUS/DECORATIVE PAVING, SHALL BE ENGINEERED AND INSTALLED AS REQUIRED TO SUPPORT THE AXLE LOADS OF EMERGENCY VEHICLES. A LOAD
- CAPACITY SUFFICIENT TO MEET THE REQUIREMENTS FOR HS-20 LOADING (16KIPS/WHEEL) AND A TOTAL VEHICLE LIVE LOAD OF 80,000 POUNDS IS CONSIDERED COMPLIANT WITH THIS REQUIREMENT. 5. FIRE LANES DESIGNATED ON SITE PLANS SHALL BE REGISTERED WITH THE CITY OF AUSTIN FIRE DEPARTMENT AND INSPECTED FOR FINAL APPROVAL.
- 6. THE MINIMUM VERTICAL CLEARANCE REQUIRED FOR EMERGENCY VEHICLES ACCESS ROADS OR DRIVES IS 14 FEET FOR THE FULL WIDTH OF THE ROADWAY OR DRIVEWAY.

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

TRENCH SAFETY NOTES:

1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION 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. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION 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

3. IF FOUND DURING CONSTRUCTION THAT TRENCHES ARE IN FACT GREATER THAN 5 FEET IN DEPTH, THE CONTRACTOR SHALL PROVIDE ACCEPTABLE TRENCH SAFETY PLANS DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH U.S. OSHA REGULATIONS.

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 TEXAS 811 (811 OR 1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY FASEMENTS OR STREET R.O.W.

3. CONTRACTOR SHALL NOTIFY THE CITY OF AUSTIN - SITE & SUBDIVISION DIVISION TO SUBMIT REQUIRED DOCUMENTATION, PAY CONSTRUCTION INSPECTION FEES, AND TO SCHEDULE THE REQUIRED SITE AND SUBDIVISION PRE-CONSTRUCTION MEETING. THIS MEETING MUST BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE R.O.W. OR PUBLIC EASEMENTS. PLEASE VISIT

HTTP://AUSTINTEXAS.GOV/PAGE/COMMERCIAL-SITE-AND-SUBDIVISION-INSPECTIONS FOR A LIST OF SUBMITTAL REQUIREMENTS, INFORMATION CONCERNING FEES, AND CONTACT INFORMATION.

4. 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 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.

6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE FOLLOWING, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE, FILTRATION AND DETENTION FACILITIES WERE

CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS: RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEVELOPMENT SERVICES DEPARTMENT (INSIDE THE CITY LIMITS); OR

INSTALLATION OF AN ELECTRIC OR WATER METER (IN THE FIVE-MILE ETJ)

SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D) IN CONJUNCTION WITH REMEDIAL CARE, MITIGATION FOR TREES REMOVED MAY INCLUDE SPECIAL CONSTRUCTION TECHNIQUES NOT NORMALLY REQUIRED IN STANDARD SPECIFICATIONS. SOME OF THESE TECHNIQUES INCLUDE THE

- PRIOR TO EXCAVATION WITHIN TREE DRIPLINES OR THE REMOVAL OF TREES ADJACENT TO 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.

- IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY GEOTEXTILE FABRIC, PER STANDARD SPECIFICATION 620S, SHOULD BE PLACED UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONALLY, MATERIAL SUCH AS PLYWOOD AND METAL SHEETS, COULD BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETED, ALL MATERIALS SHOULD BE DENOVED AND THE MULCH SHOULD BE REDUCED TO A DEDITION OF THE SOIL AND MATERIALS SHOULD BE REMOVED, AND THE MULCH SHOULD BE REDUCED TO A DEPTH OF 3 INCHES.

- PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.

- WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

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

DUST CONTROL. DESCRIPTION

CONTROLLING DUST MOVEMENT ON CONSTRUCTION-SITES AND ROADS. PURPOSE D PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY. CONDITIONS WHERE PRACTICE APPLIES. THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF—SITE DAMA LIKELY WITHOUT TREATMENT.

 PROCEDURES TEMPORARY METHODS - MULCHES – SEE SECTION 1.4.4. CHEMICAL MULCH BINDERS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH

MATERIAL. BINDERS SUCH AS CURASOL OR TERRA TACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS - VEGETATIVE COVER - SEE SECTION 1.4.4. - SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

TABLE 1-5

SPRAY-ON ADHESIVES WATER TYPE OF APPLY-DILUTION NOZZLE GALLONS/ACRE ANIONIC ASPHALT EMULSION 7:1 FINE SPRAY 12½ :1 FINE SPRAY LATEX EMULSION RESIN-IN-WATER EMULSION 4:1 FINE SPRAY SOURCE: CITY OF SAN MARCOS

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WI MAY PRODUCE THE DESIRED EFFECT. - IRRIGATION – THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. - BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.

PERMANENT METHODS - PERMANENT VEGETATION -- SEE SECTION 1.4.3 AND SECTION 1.4.4 E. TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION LEFT IN PLACE. - TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIAL. SEE 1.4.5 B. - STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

2. THE NOISE LEVEL OF MECHANICAL EQUIPMENT WILL NOT EXCEED 70 D.B.A. AT THE PROPERTY LINE ADJACENT 3. ALL EXTERIOR LIGHTING SHALL BE HOODED OR SHIELDED FROM THE VIEW OF ADJACENT RESIDENTIAL USES. 5. ALL DUMPSTERS AND ANY PERMANENTLY PLACED REFUSE RECEPTACLES WILL BE LOCATED AT A MINIMUM OF

ANY FIRE HYDRANT SHALL BE FREE OF OBSTRUCTIONS, AND THE AREA BETWEEN THE STEAMER OPENING AND

DEPARTMENT APPROVES AN ALTERNATE METHOD OF PROTECTION, THIS REQUIREMENT MAY BE MODIFIED AS

APPENDIX P-1 - EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING 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 PI AN
- 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 AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, 974-2278, 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 WITH EITHER A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), CERTIFIED EROSION, SEDIMENT AND STORMWATER- INSPECTOR (CESSWI) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT 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.
- 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.
- 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 ITEMS 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 11/2 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 SPECIFICATIONS 604S OR 609S.

ABLE 1: HYDROMULCHING F	OR TEMPORARY VEGETATIVE	STABILIZATION		
IATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
00% OR ANY BLEND OF	70% OR GREATER	0-3 MONTHS	MODERATE SLOPES;	1500 TO 2000
VOOD, CELLULOSE, STRAW,	WOOD/STRAW 30% OR		FROM FLAT TO 3:1	LBS PER ACRE
AND/OR COTTON PLANT	LESS PAPER OR			
ATERIAL (EXCEPT NO	NATURAL FIBERS			
SECTION STALE EXCLED				

PERMANENT VEGETATIVE STABILIZATION:

30% PAPER)

- 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 (1/2) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY. THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS 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 ITEMS 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 11/2 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 16 SQUARE FEET.
- E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.

	ABLE 2: HYDROMULCHING MATERIAL	G FOR PERMANENT VEGE DESCRIPTION 80% THERMALLY	TATIVE STABILIZATIO	ON TYPICAL APPLICATIONS	APPLICATION RATES
1 1 F IS	0% TACKIFIER	00% HERWALL	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2500 TO 4000 LBS PER AC. (SEE MANUFACTURER)
L IS FI M	BER REINFORCED ATRIX	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBEF 10% TACKIFIER	12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3000 TO 4000 LBS PER AC. (SEE MANUFACTURER)
10.	DEVELOPER INFORMA AUSTEX AGGREGATES ADDRESS: 3721 CR 239 Georgetown, TX 78633	TION:			
	OWNER'S REPRESENTA PHONE # <u>(806) 679–</u>	TIVE RESPONSIBLE FOR -7303	PLAN ALTERATION	IS, NICHOLAS SANDLIN, PE,	
СН	PERSON OR FIRM RES	PONSIBLE FOR EROSION #	I/SEDIMENTATION	CONTROL MAINTENANCE:	

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE: CONTRACTOR PHONE # _____

11. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT AT 974-2278 AT LEAST 48 HOURS PRIOR WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

APPENDIX P-2: CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

Α.

12.

13.

14.

ETC.)

ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING. PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES. 5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE), FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING: SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS; B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ABORIST:

WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT; OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES: WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING

SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED; B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE); WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING; WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR

OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT 974-1876 TO DISCUSS ALTERNATIVES. SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN

4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE. 11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST)

DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

PPENDIX P-6 REMEDIAL TREE CARE NOTES

AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION AREAS

AS A COMPONENT OF AN EFFECTIVE REMEDIAL TREE CARE PROGRAM PER ENVIRONMENTAL CRITERIA MANUAL SECTION 3.5.4, PRESERVED TREES WITHIN THE LIMITS OF CONSTRUCTION MAY REQUIRE SOIL AERATION AND SUPPLEMENTAL NUTRIENTS. SOIL AND/OR FOLIAR ANALYSIS SHOULD BE USED TO DETERMINE THE NEED FOR SUPPLEMENTAL NUTRIENTS. THE CITY ARBORIST MAY REQUIRE THESE ANALYSES AS PART OF CARE PLAN. SOIL PH SHALL BE CONSIDERED WHEN DETERMINING THE FERTILIZATION COMPOSITION AS SOIL PH INFLUENCES THE TREE'S ABILITY TO UPTAKE NUTRIENTS FROM THE SOIL. IF ANALYSES INDICATE THE NEED FOR SUPPLEMENTAL NUTRIENTS, THEN HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS ARE HIGHLY RECOMMENDED. IN ADDITION, SOIL ANALYSIS MAY BE NEEDED TO DETERMINE IF ORGANIC MATERIAL OR BENEFICIAL MICROORGANISMS ARE NEEDED TO IMPROVE SOIL HEALTH. MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST (512-974-1876) PRIOR TO APPLICATION. THE OWNER OR GENERAL CONTRACTOR SHALL SELECT A FERTILIZATION CONTRACTOR AND IENSURE COORDINATION WITH THE CITY ARBORIST.

PRE-CONSTRUCTION TREATMENT SHOULD BE APPLIED IN THE APPROPRIATE SEASON IDEALLY THE SEASON PRECEDING THE PROPOSED CONSTRUCTION. MINIMALLY, AREAS TO BE TREATED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREATMENT SHOULD INCLUDE, BUT NOT LIMITED TO, FERTILIZATION, SOIL TREATMENT, MULCHING, AND PROPER PRUNING.

POST-CONSTRUCTION TREATMENT SHOULD OCCUR DURING FINAL REVEGETATION OR AS DETERMINED BY A QUALIFIED ARBORIST AFTER CONSTRUCTION. CONSTRUCTION ACTIVITIES OFTEN RESULT IN A REDUCTION IN SOIL MACRO AND MICRO PORES AND AN INCREASE IN SOIL BULK DENSITY. TO AMELIORATE THE DEGRADED SOIL CONDITIONS, AERATION VIA WATER AND/OR AIR INJECTED INTO THE SOIL IS NEEDED OR BY OTHER METHODS AS APPROVED BY THE CITY ARBORIST. THE PROPOSED NUTRIENT MIX SPECIFICATIONS AND SOIL AND/OR FOLIAR ANALYSIS RESULTS NEED TO BE PROVIDED TO AND APPROVED BY THE CITY ARBORIST PRIOR TO APPLICATION (FAX # 512-974-3010). CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIALS AT 1/2 RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST. WITHIN 7 DAYS AFTER FERTILIZATION IS PERFORMED. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE WORK PERFORMED TO THE CITY ARBORIST. PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. P.O. BOX 1088, AUSTIN, TX 78767. THIS NOTE SHOULD BE REFERENCED AS ITEM #1 IN THE SEQUENCE OF CONSTRUCTION.



AUSTIN ENERGY NOTES:

1. AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES. SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE. 2. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT. 4. THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN RULES AND REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD POWER LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILL BE CHARGED TO THE OWNER.

CONSTRUCTION SEQUENCE NOTES

INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, AND OTHER BMP'S AS SHOWN ON THE PLANS. CONTACT THE DESIGN ENGINEER FOR A PRE-CONSTRUCTION MEETING. PEDERNALES ELECTRIC COOPERATIVE (PEC) AND ATMOS ENERGY (GAS COMPANY) ARE NOTIFIED BY THE TEXAS EXCAVATION SYSTEM (1-800-344-8377).

A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR. DESIGN ENGINEER/PERMIT APPLICANT AND THE CITY OF LEANDER REPRESENTATIVES AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION MEASURES AND PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE CITY OF LEANDER PUBLIC WORKS DEPARTMENT AT LEAST THREE (3 DAYS PRIOR TO THE MEETING DATE.

CONTACT TEXAS EXCAVATION SYSTEM FOR EXISTING UTILITY LOCATIONS. CLEAR SITE OF ANY EXISTING MATERIALS, DEBRIS AND VEGETATION ALON CONSTRUCTION ROUTES.

BEGIN CONSTRUCTION OF PROJECT AS FOLLOWS:

- A) SET UP CONTRACTOR TRAILER/OFFICE AND TEMPORARY UTILITIES B) ROUGH GRADE POND FOR DRAINGE CONTROL
- C) BEGIN EXCAVATION (COMPLY WITH OSHA AND CODES, ETC.) D) INSTALL INFRASTRUCTURE MATERIALS (PIPE, FITTINGS, AND BEDDING MATERIAL, ETC.)
- E) BEGIN BUILDING PAD/SLAB CONSTRUCTION F) COMPLETE PIPE LAYING AND TESTING (COMPLY WITH
- SPECIFICATIONS) G) COMPLETE BACKFILL (COMPLY WITH SPECIFICATIONS) H) INSTALL CURB AND GUTTER
- I) FINALIZE BUILDING CONSTRUCTION
- J) FINALIZE PAVEMENT INSTALLATION

TEST STREET AND DRAINAGE CONSTRUCTION AS SPECIFIED. REVEGETATE DISTURBED AREAS AS REQUIRED.

UPON ACCEPTANCE OF FINAL CONSTRUCTION AND PROPER REVEGETATION PER SPECIFICATIONS; REMOVE TEMPORARY EROSION CONTROLS.

MAINTAIN, REPAIR, OR REPLACE INTEGRITY OF EXISTING FENCES, PROPERTY CORNERS, AND LANDSCAPING AS REQUIRED.

CITY APPROVAL	ENGINEERING CONSULTING SANDLING SERVICES, LLC
SITE PLAN RELEASE	
FILE NUMBER: EXPIRATION DATE: CASE MANAGER: APPLICATION DATE: MARCH 31, 2020	TBPELS FIRM #21356 4501 WHISPERING VALLEY DRIVE UNIT 27 AUSTIN, TX 78727
APPROVED ADMINISTRATIVELY ON:	GENERAL NOTES
Director, Development Services Department DATE OF RELEASE: Zoning: GR-MU-CO-NP	BLUE GOOSE MATERIALS
	CASE: 2020-26-SDP DATE: 8-21-2020
REV. BY DATE	REVISION DESCRIPTION 2
	OF 14





ALE TO PREVENT RUNOFF FROM LE	AVING THE CONSTRUCTION SITE.			(6 inches). THE SILT SHALL BE DISP(A MANNER THAT WILL NOT CONTRIBUTE	SED OF ON TO ADDITIO
CITY OF AUSTIN	STABILIZED CONSTRUCTION ENTRANCE	CITY OF AUSTIN	ROCK BERM	CITY OF AUSTIN	
CORD COPY SIGNED PATRICK MURPHY ADDPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE $6415-1$ of this standard.	RECORD COPY SIGNED BY MORGAN BYARS 8/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE $6395-1$ of this standard.	RECORD COPY SIGNED BY MORGAN BYARS ADDPTED	THE ARCHI RESPONSIBI OF THIS ST



CURVE NUMBER CALCULATED USING THE SCS METHOD - EXISTING CONDITIONS								
Drainage Basin	Drainage	Drainage	Impervious Area	I.C.				
Drainage Basin	Area (sf)	Area (ac)	(sf)	(%)				
EX DA-1	96,268	2.21	3,110	3.23%				
EX DA-2	72,745	1.67	7,623	10.48%				

	EXISTING "Tc" VALUE CALCULATIONS								
		Sheet Flow				Shallow Concentrated Flow (Unpaved)			Total Allowed
Drainage	Area	Length	Slope	n	Tt	Length	Slope	Tt	n Tc
Area	(ac)	(ft)	(ft/ft)		(min)	(ft)	(ft/ft)	(min)	f (min)
EX DA-1	2.21 Ac.	100	0.068	0.15	5.80 min	509	0.062	2.11	7.91
EX DA-2	1.67 Ac.	100	0.020	0.15	9. <mark>41 m</mark> în	464	0.060	1.95	- 11.36

Blue Goose Materials							
EXISTING POINT OF CONFLUENCE							
Design Scenario	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)			
EX DA-1	5.11	10.26	14.17	21.46			
EX DA-2	3.92	7.58	10.34	15.47			



Blue Goose Materials							
CURVE NUMBER CALCULATED USING THE SCS METHOD - DEVELOPED CONDITIONS							
Drainage Basin	Drainage	Drainage	Impervious Area	I.C.			
Dramage Dasin	Area (sf)	Area (ac)	(sf)	(%)			
PR DA-1	96,268	2.21	67,566	70.19%			
PR DA-2	72,745	1.67	49,559	68.13%			

DEVELOPED "Tc" VALUE CALCULATIONS									
			Sheet Flow				w Concentrate	ed Flow	Total Al
Drainage	Агеа	Length	Slope	n	Tt	Length	Slope	Tt_	i To
Area	(ac)	(ft)	(ft/ft)		(min)	(ft)	(ft/ft)	(min)	f (mi
PR DA-1	2.21 Ac.	100	0.068	0.08	3.53 min	509	0.062	2.11	- 5.6
PR DA-2	1.67 Ac.	100	0.020	0.15	9.41 min	330	0.060	1.39	- 10.

Blue Goose Materials						
DEVELOPED POINT OF CONFLUENCE						
Design Scopario	Q ₂	Q ₁₀	Q ₂₅	Q ₁₀₀		
Design Ocenano	(cfs)	(cfs)	(cfs)	(cfs)		
PR DA-1	5.00	10.13	14.11	21.35		
PR DA-2	3.86	7.03	9.43	14.03		





Slopes Table								
Number	Minimum Slope	Maximum Slope	Color	SQ. FT.	ACRES			
1	0.00%	15.00%		1174779.2	27.0			
2	15.00%	25.00%		81689.7	1.9			
3	25.00%	35.00%		10340.5	0.2			
4	35.00%	100.00%		2652.9	0.1			









APPENDIX R-3:

PARTIAL SEDIMENTATION/FILTRATION POND CALCULATIONS FOR DEVELOPMENT PERMITS DRAINAGE AREA DATA

Drainage Area to Control (DA)	1.67	acres			
Drainage Area Impervious Cover	68.13	⁰∕₀			
Capture Depth (CD)=(0.5"+((IC-20)/100))	0.98	inches			
WATER QUALITY CONTROL CALCULATIONS					

Pond #2

The Water Quality Control is to be <u>PARTIAL</u>Sedimentation/Filtration	L		
25-year Peak Flow Rate to Control (Q25)	9.43	cfs	
100-year Peak Flow Rate to Control (Q100)	14.03	cfs	
	<u>Required</u>	Provided	
Water Quality Volume <i>(WQV=CD*DA*3630)</i>	5,948.5	6,555.5	cf
Maximum Ponding Depth above Sand Bed (H)		2.0	ft
Sedimentation Pond Area		3,426.0	\mathbf{sf}
Sedimentation Pond Volume (minimum 20% of WQV)	1,189.7	4,614.0	cf
Filtration Pond Area (WQV/ (4+1.33*H))	893.2	1,019.0	sf
Filtration Pond Volume		1,941.5	cf
Water Quality Elevation		611.0	ft msl
Elevation of Splitter/Overflow Weir (> WQ elev)		668.0	ft msl
Height of Gabion Wall <i>(WQ elev - 0.5')</i>		610.5	ft

Sedimentation	Sedimentation Pond:								
Stage	Area	Storage	Total						
(ft msl)	(sf)	(cf)	(cf)						
609.0	0.0	0.0	0.0						
610.0	2,901.0	1,450.5	1,450.5						
611.0	3,426.0	3,163.5	4,614.0						
Filtration Pond:									
Stage	Area	Storage	Total						
(ft msl)	(sf)	(cf)	(cf)						
609.0	922.0	0.0	0.0						
610.0	971.0	946.5	946.5						
611.0	1,019.0	995.0	1,941.5						
Total Water	Quality:								
Stage	Area	Storage	Total						
(ft msl)	(sf)	(cf)	(cf)						
609.00	922	0.00	0.00						
610.00	3,872	2,397.00	2,397.00						
611.00	4,445	4,158.50	6,555.50						



0 5' 10' 20' SCALE: 1" = 10' IF DRAWING BAR DOES NOT MEASURE 2" THIS PRINT IS NOT TO SCALE



<u>OUTFALL DET/</u> N.T.S.

GABION WALL NOTES:

- . STONE: STONE FIL MATERIAL SHALL CONSIST OF DURABLE, CLEAN STONE OF THE SIZE INDICATED. INCHES IN SIZE OR AS APPROVED BY THE ENGIN RESISTANT TO THE ACTION OF AIR AND WATER AN ALL RESPECTS FOR THE PURPOSE INTENDED.
- 2. WIRE CONTAINERS: WIRE MESH SHALL CONSIST OF COATED (PVC) GALVANIZED WIRE 0.120 INCH IN IT MINIMUM AND SHALL EQUAL OR EXCEED FEDERAL QQ-W-481g CLASS 3 UNLESS OTHERWISE INDICA OF THE MESH SHALL NOT EXCEED APPROXIMATEL THE LARGEST DIMENSION. THE WIRE MESH IS TO IN SUCH A MANNER AS TO BE NONRAVELING. THE CONNECTING WIRE SHALL BE OF THE SAME TYPE THE BASKETS AND SHALL BE SUPPLIED IN SUFFI FOR SECURELY FASTENING ALL EDGES OF GABION DIAPHRAGMS.
- 3. FILTER FABRIC: FILTER FABRIC SHALL BE NON-BIUULTRAVIOLET STABILIZED, INERT TO MOST SOIL CHUNAFFECTED BY MOISTURE WHICH ALLOWS WATER THROUGH WHILE RETAINING SOIL PARTICLES AND CONFORM TO ITEM NO. 620, "FILTER FABRIC".
- 4. ALL POND BOTTOMS, SIDE SLOPES, AND EARTHEN SHALL BE COMPACTED TO NINETY-FIVE (95) PER DENSITY, IN ACCORDANCE WITH THE CITY OF AUS SPECIFICATIONS.
- 5. EXPANSION JOINTS ON FREE STANDING WALLS SH WATER TIGHT SEALS AS NEEDED.
- POND NOTES: 1. INSTALL 6" PERFORATED PVC PIPE AT 1.0% WITH CLEANOUTS AS SHOWN. 2. POND SHALL BE PRIVATELY MAINTAINED.
- THE MAXIMUM SPACING FOR FILTRATION POND SHOULD BE TEN (10) FEET BETWEEN LATERAL FIVE (5) FEET FROM A WALL OR SIDE.
- 4. IN ADDITION, INSTALL A REMOVABLE PVC CAP APPROPRIATELY SIZED ORIFICE AT THE END O UNDERDRAIN PIPE IN ORDER TO PROVIDE A FORTY-EIGHT (48) HOUR DRAWDOWN TIME, TO ACCOUNT FOR SIGNIFICANT UNCERTAINTIES TO ACTUAL FILTRATION MEDIA HYDRAULIC CONDUC

OVER THE LIFE OF THE SYSTEM.



Blue G	oose Mater	ials	OBACE							
Storage Incren	nental (cf)	Stora		tive (cf)	Storage 0	Cummulative (ac-ft)	STATE OF TEA	8/21/2	020	
4,501		4,501 0.103 9,145 0.210				0.103				
	1	BI	ue Goose M	aterials	;	• •	124404	DLIN		
Storm Event	DETEN Peak Flow II		POND #2 EL Peak Flow O		N-VOLUME	Peak Storage (ac-ff)	10 CENSED	مري م		
2-year 10-year	4.99 8.59		3.86 7.03		611.64 611.96	0.07 0.10	Nult	1		
25-year 100-year	11.28 16.34		9.43		612.16 612.52	0.12	THIS PLAN SET FOR	<u>REVIEW ON</u>	ILY,	
,		F	ILTRATION P	OND #2	- DRAWDOWN	I CALCUALTIONS	<u>NOT FOR CONSTRUCT</u>	<u>10N.</u>		
		Sta	age Storage	e	Relative Volume	Outflow Time To Velocity	WARNING III CON ALL EXIST. UT HORIZONTALLY F	ILITIES VERTIO PRIOR TO CON	FIELD VERIFY CALLY AND NSTRUCTION.	
		(ft a 61´	msl) (cf) 1.00 0	Head 1.0	(ft) (cf) 0 0	Drain (hr) (fps) 0.00 0.00	IF ANY EXISTIN	IS TO CONTA NG UTILITY INI ATA SHOWN IN	ACT ENGINEER FORMATION N THE PLANS.	
		612	2.00 2,397 3.00 6.556	2.0 3.0	0 2397 0 4159	21.42 7.04 30.34 8.62	CALL 811	BEFORE YOU	J DIG.	
			Com	plete Dra	awdown Time	51.76				
		*Elev	ation of Downs	stream W	'SE = 610	ft asml				
		*Orifi *24-	ce Diameter (ir Hour Drawdov	nches) = vn Volun	0.90 ne = 3289.44	in cf				
							LEGE	<u>ND</u>		
								PROPERTY BO	UNDARY	
/			-613.00 (1	FOP OF	POND)			STREET CENTE	RLINE	
								SIDEWALK CURB AND GU	ITTER	
2.5' WEIR							755	PROPOSED CO	NTOURS	
·· —·· ·							750	EXISTING CONT	TOURS	
/	1		0.1.1	NO = 1				EXISTING PROF / ROW	PERTY LINE	
			-611.00 (\	NQE)				Existing Ease	MENT	
<u>FAIL</u>								PROPOSED EN VEGETATIVE FI	NGINEERED ILTER STRIP	
	P	OND N		Ξ:						
- HARD, . 5 TO 8	TI	HE FO EQUIRI	LLOWING MA EMENTS LIS	AINTENA TED FO	NCE ACTIVIT	IES SHALL BE PE IDUAL SCM TYPES	RFORMED ON ALL SCMS, IN ADI , TO ENSURE PROPER FUNCTIO	DITION TO N:	THE	
NEER AND ND SUITABLE	IN N)ACCU ECESS	MULATED PA ARY TO MA	APER, T INTAIN	RASH AND PROPER OP	DEBRIS SHALL BE ERATION.	REMOVED EVERY SIX (6) MONT	'HS OR AS		
DF PLASTIC	B)STRU	CTURAL INTE	EGRITY JUALLY.	SHALL BE N	MAINTAINED AT ALL	. TIMES. BASINS AND ALL APPU PECIFIED, AND REPAIRS SHALL F	RTENANCES BE MADE IF	SHALL	
L SPECIFICATI ATED. OPENIN	ON N IG O	ECESS	ARY. WHEN L LINES AN	MAINTE D GRAE	ENANCE OR DES.	REPAIRS ARE PER	FORMED, THE SCM SHALL BE F	RESTORED	TO THE	
LY 4 INCHES) BE FABRICA E AND	IN TED C)CORR	ECTIVE MAIN		CE SHALL C	CCUR: I.ANY TIME I	DRAWDOWN OF THE WATER QUAL	LITY VOLUN	IE DOES	
E AND SIZE A TICIENT QUANT	IN SM. TTY D	AXIMU RAWDC	M DRAWDOW	NINET N TIME	IS SPECIFI	ED IN THE PLANS	.II.FOR DETENTION PONDS ONLY	, ANY TIME	GREATER	
N AND	_ D`)THE I	NLET AND	OUTLET	OF SCMS S	SHALL BE MAINTAI	NED UNIMPEDED IN ORDER TO (CONVEY FL	.OW AT	
HEMICALS, TO PASS	E A	_L TIM R ANY	ES. OBSER OTHER CA	VED BLO USE, S	OCKAGES TO HALL BE RE) THE INLET AND MOVED.	OUTLET, DUE TO VEGETATION, S	EDIMENT, I	DEBRIS,	
SHALL	E) A	NO U	NVEGETATED) AREA	SHALL EXC	EED TEN (10) SQI	JARE FEET. THIS PERFORMANCE		IENT	
N EMBANKME RCENT MAXIMU	NTS TI JM	HE PC	ND, AND IS	S INTEN	DED TO LIM	IT EROSION.	SUTTOW, SIDE SECTES, AND ANE			
STIN STANDAR Hall havf	D F) IN	INTEG	RATED PEST	MANA(MANAGE	GEMENT SHA MENT GUIDE	ALL BE PERFORME ELINES.	D AND SHALL ADHERE TO SECT	ION 1.6.2.I	F,	
	G)THE	MINIMUM VE	GETATIC	N HEIGHT S	SHALL BE FOUR (4	4) INCHES IN THE SCM AND AL	l appurte	ENANCES,	
GRADE	H)SEDIN	IENT BUILD-	-UPSH	ALL BE REI	MOVED:	com, milite /it floadel.			
D LATERALS	I.\ S	WHEN EDIMEI	THE ACCUM	IULATIOI	N EXCEEDS	SIX (6) INCHES I	N SPLITTER BOXES, WET WELLS	AND BASI	NS.II.WHEN	
ALS AND	II. B`	VVHEN Y MOF	SEDIMENT, RE THAN 10	∪r AN` %.	T AMUUNI,	CAUSES STANDING	WATER CONDITIONS OR REDUC	es rasin	SIUKAGE	
OF THE	ו)' אי	WHEN S NEE	SEDIMENT DED, UNTIL	IS REM	OVED, THE I ATION IS ES	FOLLOWING REQUIF TABLISHED (WELL	REMENTS APPLY:I.IRRIGATION SHA ROOTED). SEE SECTION 1.6.3.D	LL BE PRO , IRRIGATIO	OVIDED, N	
O D THE	G 1.	UIDELI 6.3.B.	NES.II.THE [5.III.TILLING	DESIGN OF THE	DEPTH OF E FILTRATION	THE FILTRATION M N MEDIUM IS NOT	EDIA SHÁLL BE VERIFIED. SEE S ALLOWED.	SECTION		
CTIVITY	.A F`		TATION WITH	IIN THE	SCM SHALI	NOT EXCEED EIG	GHTEEN (18) INCHES IN HEIGHT	AT ANY T	IME, /FD_FROM	
	TI IN	HE SC	M.3.DETENT	ION BAS	SINS.A.VEGET	TATION WITHIN THE	BASIN SHALL NOT EXCEED EIG	HTEEN (18	B) INCHES	
		-								
									I	
			СІТ	ΥΔF	PROV	AL		L L L C		
					• • • •					
	SI FI	LE NUME	BER:		EXPIRATION	DATE:	TBPELS FIRM #21356			
Schedule 40 PVC Pipe	CA APF	SE MAN	AGER: ADMINISTRATIVEI	_Y ON:	APPLICATION I	DATE: MARCH 31, 2020	4301 WHISPERING VALLEY DRIVE U	NH 27 AUS	un, IX /8727	
	APF APF	PROVED PROVED	BY PLANNING C BY CITY COUNC	OMMISSION	N ON:		WATER QUA			
Orifice		Ur	der Section 112	2 Chapter	25-5 Of The A	ustin City Code	DETENTION PO	INU 2	UF 2	
riule			Director, [Developme	nt Services Dep	artment	BIUF G	00.SF		
e		Rev 1	RELEASE:	Corr	Zc	лппу: GK-MU-CO-NP	MATERI	ALS		
		Rev 2 Rev 3		Corr Corr	rection 2 rection 3					
ntrol Manual,	<u> </u>			rfv -				UNIE. 8	SHEET	
				ŇŌ. B	or DATE		REVISION DESCRIPTION		11	

OF 14



HEADWALL FOR MITERED PIPE END @3:1



CITY APPROVAL	ENGINEERING CONSULTING SANDLIN SERVICES, LLC
SITE PLAN RELEASE FILE NUMBER:	TBPELS FIRM #21356 4501 WHISPERING VALLEY DRIVE UNIT 27 AUSTIN, TX 78727 DETENTION POND DETAILS
Director, Development Services Department DATE OF RELEASE: Zoning: GR-MU-CO-NP Rev 1 Correction 1 Rev 2 Correction 2 Rev 3 Correction 3	BLUE GOOSE MATERIALS
REV. BY DATE	CASE: 2020-26-SDP DATE: 8-21-2020 REVISION DESCRIPTION SHEET 12
	OF 14





END ROAD WORK



- 1. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
- 2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5. SHEETS 5, 6 AND 7 OF 11. 3. FOR INTERMEDIATE—TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
- 4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
- 5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3. 6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED. 7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.
- 8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION DIVISION.
- 9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD 804S-4. 10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24-HOUR A DAY LANE CLOSURE SET-UPS.

GENERAL NOTES STANDARD NO.
 RECORD COPY SIGNED BY BILL GARDNER
 03/13/06
 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE
 STANDARD NO.

 OF THIS STANDARD.
 03/13/06
 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE
 \$0,45,-1 8 of 9





		Ty Sugges	pical [.] sted M	Transit Iaximu	ion Le m Spa	ngths acing o	and of Devic	es
			Minimu Taper Me	um Desir Lengths ters (Fee	able (L) et)	Suggeste Device S	ed Max. Spacing	Suggested Sign Spacing Meters (Feet)
Speed KMPH	Posted Speed MPH	Formula	3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	On a taper Meters (feet)	On a tangent Meters (feet)	"X" Dimension
50	30		45 (150)	50 (165)	55 (180)	9 (30)	15–20 (60–75)	40 (120)
55	35	$\begin{bmatrix} L = WS^{*} \\ 60 \end{bmatrix}$	65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)) 120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
95	60	L=WS	180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)) 180 (600)
105	65		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)) 210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	45–55 (140–175)) 240 (800)
				Ll Chann Trailer flashin board	EGEND elizing d mounte g arrow	evices d		
			F	Flagge	r			

DEPARTMENT OF PUBLIC WO	RKS	DEVICE SPACING		
RECORD COPY SIGNED BY BILL GARDNER	03/13/06	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE	standard no. 804S—1	
	ADOPTED	OF THIS STANDARD.	9 OF 9	



CITY APPROVAL	ENGINEERING CONSULTING SANDLIN SERVICES, LLC
SITE PLAN RELEASE FILE NUMBER: CASE MANAGER: APPLICATION DATE: MARCH 31, 2020	TBPELS FIRM #21356 4501 WHISPERING VALLEY DRIVE UNIT 27 AUSTIN, TX 78727
APPROVED ADMINISTRATIVELY ON:	DRAINAGE & CONSTRUCTION DETAILS
Director, Development Services Department DATE OF RELEASE: Zoning: GR-MU-CO-NP Rev 1 Correction 1 Rev 2 Correction 2 Rev 3 Correction 3	BLUE GOOSE MATERIALS
	CASE: 2020-26-SDP DATE: 8-21-2020
REV. BY DATE	REVISION DESCRIPTION 13
	OF 14