# 1415 S GOLIAD STREET **FOR** ADVANCE AUTO PARTS - ROCKWALL

CITY OF ROCKWALL, ROCKWALL COUNTY, TX

	REVISIONS							
NO.	DESCRIPTION	REVISE (R) / ADD (A) SHEET NO.	PLAN SET SHEET TOTAL	NET IC CHANGE	SITE IC	% IC	APPROVED / DATE	

		COR	RECTIC	NS			
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ARCHITECT: CaCo ARCHITECTURE 921 N. RIVERFRONT BLVD. STE 500 DALLAS TX 75207 CONTACT: SUNG HA PHONE: (972)934-7600

LANDSCAPE ARCHITECT: 901 S. MOPAC EXPY., BUILDING III, SUITE 400 AUSTIN, TX 78749 CONTACT: KEVIN ATHERTON

PHONE: (512) 366-5259

**SURVEYOR:** WALKER & ASSOCIATES SURVEYING INC. 10819 HWY 69 N **TYLER, TEXAS 75706** CONTACT: PHONE: (903) 534-9000 FAX: (903) 534-9616

\* PERMIT NUMBER: SP215-012 JENNIFER M. GARCIA 106000 **ORIGINAL SUBMITTAL DATE: SUBMITTED BY:** 07/25/16 DATE JENNIFER GARCIA, PE 105 WEST RIVERSIDE DRIVE, STE 110 **AUSTIN, TEXAS 78704** (512) 439-0400

**OWNERS:** 

NOTE: ALL RESPONSIBILITY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

COLUMBIA, SC 29045

**ROCKWALL ICE CREAM HOLDINGS, LLC** 

PO BOX 852

**WAXAHACHIE, TX 75168** CONTACT: COLLINS HARTZOG

PHONE: (803) 361-6718

MAPSCO GRID: COA GRID:

FIRE FLOW DEMAND = 1500 GPM (BUILDING IS SPRINKLERED) DOMESTIC DEMAND =10 GPM

FLOOD STATEMENT: ALL PORTIONS OF THIS SITE ARE LOCATED IN ZONE X AS SHOWN BY GRAPHIC SCALING FROM THE FLOOD INSURANCE RATE MAP PANEL NO. 48397C0040L FOR ROCKWALL COUNTY, TEXAS, DATED SEPTEMBER 26, 2008.

**ACREAGE:** 0.9089 ACRES IMPERVIOUS COVER: 0.71 ACRES (78.64%) **LEGAL DESCRIPTION:** PROPOSED LOT 2, BLOCK 1 OF THE HJG SUBDIVISION. **ADDRESS:** 1415 GOLIAD STREET LAND USE SUMMARY: GENERAL RETAIL **ZONING:** COMMERCIAL **DATE:** 07/25/16 **ENGINEER:** JENNIFER GARCIA, PE 105 WEST RIVERSIDE DRIVE, STE 110 **AUSTIN, TEXAS 78704** PHONE: 512.439.0400

NOTE: ASSIGNED CITY ADDRESS NUMBERS SHALL BE PERMANENTLY AFFIXED TO ALL STRUCTURES IN SUCH POSITIONS AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET.

SHT#	DESCRIPTION
01	COVER SHEET
02	GENERAL NOTES
03	GENERAL NOTES
04	PLAT
05	EXISTING SITE & DEMOLITION
06	EXISTING DRAINAGE AREA MAP
07	PROPOSED DRAINAGE AREA MAP
08	SITE PLAN
09	SITE DETAILS
10	EROSION & SEDIMENTATION PLAN
11	EROSION & SEDIMENTATION DETAILS
12	GRADING & DRAINAGE PLAN
13	GRADING AND DRAINAGE DETAILS
14	UTILITY PLAN
15	UTILITY DETAILS
16	LANDSCAPE

1. ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

- 2. PER DETAILS USE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 3. ESTIMATED START OF CONSTRUCTION WILL BE SEPTEMBER 17, 2015.

**!!! CAUTION !!!** EXISTING UTILITIES VERTICALLY AND HORIZONTALLY IMMEDIATELY OF ANY DISCREPANCIES.

!!! CAUTION !!! IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL PRIOR TO CONSTRUCTION, and NOTIFY THE ENGINEER

SP2015-12

13

12

15

CHECKED BY: JENNIFER GARCIA, PE JOB NUMBER: ISSUE DATE:

September 18, 2015

9/11/15 259-003

**01** of **16** 

#### PRELIMINARY SITE PREPARATION

- PRELIMINARY SITE PREPARATION:
- A. SITE PREPARATION THE BELOW NOTED SITE PREPARATION ITEMS ARE TO BE IN PLACE, INSPECTED AND APPROVED BY THE CITY, PRIOR TO THE START OF ANY CLEARING, GRUBBING OR GRADING OPERATIONS.
- PROTECTED TREES WHICH ARE DESIGNATED TO REMAIN ON SITE ARE TO BE IDENTIFIED, TAGGED AND BANDED WITH BRIGHT ORANGE OR RED BANDS. PROTECTED TREES WHICH ARE DESIGNATED TO BE REMOVED FORM THE SITE ARE TO BE IDENTIFIED TAGGED AND BANDED WITH BLUE BANDS OR BLUE PAINT
- TREE IDENTIFICATION TAGS ARE TO CONSIST OF METAL TAGS WHICH HAVE THE TREE IDENTIFICATION NUMBER STENCILED OR STAMPED OR ENGRAVED ON THE TAG. THE NUMBERS USED TO IDENTIFY THE PROTECTED TREES SHALL CORRESPOND TO THE TREE IDENTIFICATION NUMBER NOTED ON THE APPROVED TREESCPAE
- PROTECTED TREE BARRIER FENCING:
- CHAIN LINK BARRIER FENCING SHALL BE PLACED AROUND THE DRIP LINES OF THE INDIVIDUAL PROTECTED TREES OR GROUPS OF PROTECTED TREES, WHICH ARE DESIGNATED TO REMAIN AT THE SITE IF THEY ARE LOCATED WITHIN 10-FEET OF ANY CUT/FILL GRADING LOCATION.
- PLASTIC MESH BARRIER FENCING SHALL BE PLACED AROUND THE DRIP LINES OF INDIVIDUAL PROTECTED TREES OR GROUPS OF PROTECTED TREES, WHICH ARE LOCATED OVER 10-FEET OR MORE OUTSIDE A CUT/FILL GRADING LOCATION. SILT FENCE ALONG WITH CONSTRUCTION ENTRANCE AND ANY OTHER DESIGNATED EROSION BMP'S MUST BE INSTALLED AND INSPECTED. NO SILT FENCING MAY BE INSTALLED AT THE SITE UNTIL THE TREES HAVE BEEN IDENTIFIED, BANDED, TAGGED
- FENCED AND INSPECTED BY THE CITY. PORTABLE TOILET FACILITIES MUST BE ON SITE AND VERIFIED.
- TRASH RECEPTACLE MUST BE ON SITE AND VERIFIED. CONSTRUCTION SITE WORKING HOURS AND NOISE CONTROL SIGNAGE – SIGN INSTALLED AT THE SITE AND VERIFIED.

#### PORTABLE TOILET FACILITIES

PORTABLE TOILET FACILITIES WILL BE REQUIRED ON ALL CONSTRUCTION SITES OR AS OTHERWISE DEEMED NECESSARY BY THE CITY OF ROCKWALL. IT IS ESSENTIAL THAT ADEQUATE ON-SITE RESTROOM FACILITIES BE AVAILABLE FOR ALL CONSTRUCTION WORKERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN THE FACILITIES THROUGH THE COMPLETION OF THE PROJECT. THESE FACILITIES MUST BE IN PLACE PRIOR TO MOVING PERSONNEL ON SITE AND BEFORE CONSTRUCTION CAN BEGIN.

#### TRASH RECEPTACLE

PORTABLE TRASH RECEPTACLE IS TO REMAIN ON THE JOBSITE THROUGH THE COURSE OF CONSTRUCTION. THE SITE IS TO REMAIN FREE OF CONSTRUCTION LITTER AND DEBRIS. CONSTRUCTION WORKERS SHALL PLACE ALL LUNCH TRASH IN "TRASH CONTAINERS" IMMEDIATELY AFTER LUNCH.

#### CONSTRUCTION SITE WORKING HOURS AND NOISE CONTROL

CONSTRUCTION SITE WORKING HOURS AND NOISE CONTROL ORDINANCE:

CITY ORDINANCE 05-45 – LIMITS CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES TO THE HOURS OF 7:00 A.M. TO 7:00 P.M. MONDAY TROUGH FRIDAY AND 8:00 A.M. TO 7:00 P.M. ON SATURDAY. NO SUNDAY CONSTRUCTION ALLOWED. THE CITY OF ROCKWALL REQUIRES THAT A SIGN BE POSTED AT EACH COMMERCIAL/RESIDENTIAL DEVELOPMENT CONSTRUCTION SITE.

(CONSTRUCTION SITE SIGN - EXAMPLE)

CONSTRUCTION SITE WORKING HOURS AND NOISE CONTROL

CITY ORDINANCE - NO. 05-45 LIMITS CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES TO THE HOURS OF 7:00 A.M. - 7:00 P.M. MONDAY THROUGH FRIDAY, AND 8:00 A.M. - 7:00 P.M. ON SATURDAY. (NO SUNDAY CONSTRUCTION

ORDENANZA #05-45

HORAS DE TRABAJO EN EL SITIO DE CONSTRUCCION Y EL CONTROL DE RUIDO

LA ORDENANZA DE LA CIUDAD – NO. 05-45 LIMITA LA CONSTRUCCIÓN Y LAS ACTIVIDADES RELACIONADAS CON LA CONSTRUCCIÓN A LAS HORAS DE 7:00 A.M. 7:00 P.M. DE LUNES A VIERNES, Y DE 8:00 A.M. – 7:00 P.M. LOS SÁBADOS. (NO SE PERMITIRÁ CONSTRUCCIÓN LOS DOMINGO).

NOISE ORDINANCE SIGN (SIGN SIZE – 3' WIDE X 2' TALL)

THE CONSTRUCTION RELATED ACTIVITIES ARE TO INCLUDE BUT NOT BE LIMITED TO

THE FOLLOWING: MAINTENANCE, SERVICING AND FUELING OF CONSTRUCTION EQUIPMENT. THE DELIVERY OF CONSTRUCTION RELATED MATERIALS AND/OR CONSTRUCTION EQUIPMENT.

AT LOCATIONS WHERE COMPLIANCE TO ORDINANCE 05-45 IS NOT BEING OBSERVED, THE CITY OF ROCKWALL MAY ISSUE WRITTEN ORDERS TO STOP WORK OR FURTHER REGULATE THE SITE CONSTRUCTION WORK HOURS. THE CITY MAY ALSO ISSUE CITATIONS IF IT IS DETERMINED THAT A VIOLATION OF THE CONSTRUCTION ORDINANCE EXIST

#### TREE TRANSPLANTING DAY

LOCAL ACCESS CHANNEL.

TREE TRANSPLANTING DAY: (CITY POLICY – ADOPTED BY COUNCIL RESOLUTION). THE PURPOSE OF THE TREE TRANSPLANTING DAY IS TO ALLOW CITIZENS THE OPPORTUNITY TO TRANSPLANT TREES WHICH HAVE BEEN DESIGNATED FOR REMOVAL FROM THE PROPOSED DEVELOPMENT, PRIOR TO THE START OF CONSTRUCTION. "SEE COPY OF CITY OF ROCKWALL – TREE TRANSPLANTING POLICY FOR ADDITIONAL INFORMATION".

SCHEDULING OF THE TREE TRANSPLANT DAY AND PUBLIC NOTIFICATION. PUBLIC NOTIFICATION AND SCHEDULING OF THE TRANSPLANTING DAY SHALL BE COORDINATED WITH ROBERT LACROIX, THE DIRECTOR OF PLANNING AND ZONING OR HIS DESIGNATED REPREHENSIVE.

TREE TRANSPLANTING DAY SHALL BE CONDUCTED 14 DAYS PRIOR TO BEGINNING OF CONSTRUCTION OR AS APPROVED BY ROBERT LACROIX. THE TREE TRANSPLANTING DAY SHALL BE ADVERTISED AT THE

DEVELOPER/OWNERS EXPENSE IN THE LOCAL NEWSPAPER OF GENERAL CIRCULATION AS IDENTIFIED BY THE CITY FOR NOTIFICATION PURPOSES. ROBERT LACROIX OR HIS DESIGNATED REPRESENTATIVE WILL POST THE DATE, TIME LOCATION OF THE TREE TRANSPLANTING DAY ON THE CITY'S WEBSITE AND

#### **INSPECTION SCHEDULING – ENGINEERING DEPARTMENT**

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE INSPECTIONS PRIOR TO CONSTRUCTION. INSPECTIONS MAY BE SCHEDULED AND COORDINATED IN THE FIELD OR BY CELL PHONE DIRECTLY WITH THE ENGINEERING INSPECTOR, INSPECTION OF CONSTRUCTION AND VERIFICATION OF COMPLIANCE TO PLANS AND SPECIFICATIONS SHALL BE CONDUCTED BY THE CITY OF ROCKWALL ENGINEERING INSPECTOR. THE GENERAL CONTRACTOR SHALL NOTIFY ALL OF HIS CONSTRUCTION CONTRACTORS OF THIS REQUIREMENT. ITEMS TO BE INSPECTED MUST BE SUFFICIENTLY READY FOR INSPECTION AT THE TIME OF YOUR REQUESTED INSPECTION APPOINTMENT AS INSPECTOR'S TIME IS LIMITED. FAILURE TO BE READY FOR INSPECTIONS MAY RESULT IN INSPECTION RESCHEDULING TO THE FOLLOWING DAY. NO DEVELOPMENT WILL BE ACCEPTED BY THE CITY OF ROCKWALL UNTIL ALL CONSTRUCTION HAS BEEN APPROVED BY THE CITY OF ROCKWALL INSPECTORS.

SATURDAY INSPECTIONS:

THE CONTRACTOR SHALL BE CHARGED A MINIMUM 2 HOURS INSPECTION CHARGE FOR ALL SATURDAY INSPECTIONS. ALL SATURDAY INSPECTIONS MUST BE SCHEDULED IN WRITING TO THE ENGINEERING DEPARTMENT BY NOON ON THE THURSDAY BEFORE THE INSPECTION DATE. A SIGNED SATURDAY ENGINEERING INSPECTION REQUEST FORM MUST BE EMAILED TO THE AMY WILLIAMS (AWILLIAMS@ROCKWALL.COM) AND JOHN CRANSON (JCRANSON@ROCKWALL.COM). APPROVAL/DISAPPROVAL WILL BE EMAILED BACK TO THE REQUESTING CONTRACTOR WITH THE SATURDAY INSPECTOR'S INFORMATION. ALL CANCELLATIONS MUST BE GIVEN VERBALLY AND WRITTEN TO THE SATURDAY INSPECTOR NO LATER THAN 8 AM ON DAY OF INSPECTION. TWO HOURS OF OVERTIME INSPECTION WILL BE CHARGED TO THE CONTRACTOR IF NO CANCELLATION IS GIVEN PRIOR TO THE INSPECTOR ARRIVING AT THE PROJECT SITE. CONTRACTOR MUST SIGN ENGINEERING INSPECTOR'S REPORT OF OVERTIME FORM TO FINALIZE THE INSPECTION. NO ACCEPTANCE AND/OR CERTIFICATION OF OCCUPANCY WILL BE GIVEN UNTIL ALL OVERTIME ENGINEERING INSPECTION FEES ARE PAID IN FULL.

BEFORE/AFTER WEEKDAY HOURS INSPECTIONS CONTRACTOR WILL BE CHARGED ON 15 MINUTE INTERVALS FOR ANY

BEFORE/AFTER HOUR'S INSPECTIONS. CONTRACTOR MUST SIGN ENGINEERING INSPECTOR'S REPORT OF OVERTIME FORM TO FINALIZE THE INSPECTION. NO ACCEPTANCE AND/OR CERTIFICATION OF OCCUPANCY WILL BE GIVEN UNTIL ALL OVERTIME ENGINEERING INSPECTION FEES ARE PAID IN FULL.

#### CONSTRUCTION SITE CRIME PREVENTION – ROCKWALL POLICE DEPARTMENT

ROCKWALL POLICE DEPARTMENT (CRIME PREVENTION UNIT). THE CITY OF ROCKWALL POLICE DEPARTMENT PERIODICALLY PATROLS THE IDENTIFIED ACTIVE CONSTRUCTION SITES IN AN EFFORT TO REDUCE CONSTRUCTION SITE CRIME

THEFT. VANDALISM.

ARSON.

CONSTRUCTION SITE CONTACT LIST – ROCKWALL POLICE DEPARTMENT. PROVIDE PROJECT INFORMATION AND CONTACT INFORMATION AS REQUESTED ON THE CHECK LIST AND FORWARD TO THE CITY OF ROCKWALL POLICE DEPARTMENT

SUBMIT THE CHECKLIST TO THE POLICE DEPARTMENT PRIOR TO PLACING **EQUIPMENT, CONSTRUCTION MATERIALS ON SITE.** 

A COPY OF THE FORM FOR THE CONSTRUCTION SITE CONTACT LIST MAY BE OBTAINED AT THE PRE-CONSTRUCTION MEETING OR OBTAINED THROUGH THE CITY OF ROCKWALL POLICE DEPARTMENT AND/OR ENGINEERING DEPARTMENT

#### FIRE LANE ACCESS TO BUILDING SITES - VERTICAL ABOVE SLAB CONSTRUCTION PERMIT

NO VERTICAL (ABOVE SLAB) CONSTRUCTION WILL BE ALLOWED UNTIL SUCH TIME AS THE FOLLOWING MINIMUM SITE REQUIREMENTS HAVE BEEN ADDRESSED AT THE SITE AND A VERTICAL ABOVE SLAB CONSTRUCTION PERMIT HAS BEEN ISSUED BY THE CITY. SCHEDULE "VERTICAL CONSTRUCTION MEETING" WITH ENGINEERING DEPARTMENT AND FIRE MARSHALL

COORDINATE THE SITE WORK AND SCHEDULE THE MEETING WITH THE DESIGNATED CONSTRUCTION INSPECTOR FOR THE SITE-WORK.

VERTICAL PERMIT WILL BE ISSUED BY THE ENGINEERING/FIRE DEPARTMENT DURING THE MEETING, PENDING THAT ALL APPLICABLE ISSUES HAVE BEEN RESOLVED. NOTE\* FULL FIRE LANE ACCESS IS TO BE PROVIDED AT ALL TIMES. THE FIRE LANE SHALL NOT BE USED AS A HARD SURFACE STORAGE AREA. NO PARKING OR PLACEMENT OF MACHINERY OR EQUIPMENT WILL BE ALLOWED IN DESIGNATED FIRE LANE AREAS. NOTE\* FURTHER ACCESS REQUIREMENTS MAY BE REQUIRED IF DEEMED NECESSARY BY THE CITY ENGINEER OR FIRE MARSHALL.

#### FIRE DEPARTMENT GENERAL SITE-WORK REQUIREMENTS

FIRE DEPARTMENT GENERAL REQUIREMENTS:

A. UNDERGROUND FIRE LINE INSPECTION – THE UNDERGROUND FIRE LINE SHALL BE INSPECTED BY CITY FIRE DEPARTMENT PERSONNEL ONLY. ALL FIRE LINE INSPECTIONS ARE TO BE SCHEDULED WITH THE ROCKWALL FIRE DEPARTMENT. ENGINEERING INSPECTORS WILL NOT SCHEDULE THESE INSPECTIONS. PLEASE HAVE THE CONTRACTOR SCHEDULE DIRECTLY WITH THE FIRE DEPARTMENT. FIRE DEPARTMENT TELEPHONE NO. (972) 771-7770. FIRE DEPARTMENT INSPECTION REQUEST LINE. (972) 771-7774.

INSTALLATION OF UNDERGROUND FIRE LINE – THE UNDERGROUND FIRE LINE SHALL BE INSTALLED BY A CONTRACTOR WHO IS LICENSED WITH THE STATE OF TEXAS FIRE MARSHAL'S OFFICE FOR SUCH WORK.

POSTING OF SITE ADDRESS – THE BUILDING ADDRESS SHALL BE POSTED AT THE SITE FOR 911 LOCATION IDENTIFICATION PURPOSES. THE NUMBERS SHALL BE VISIBLE FROM THE STREET AND HAVE A MINIMUM NUMBER SIZE OF 12-INCHES IN HEIGHT.

D. ABOVE GROUND FUEL STORAGE TANKS - A PERMIT MUST BE OBTAINED FROM THE FIRE DEPARTMENT, PRIOR TO PLACING ANY ABOVE GROUND FUEL TANKS AT THE SITE. CONTACT ARIANA ADAIR – CITY OF ROCKWALL, FIRE MARSHALL AT THE ROCKWALL FIRE DEPARTMENT AT TELEPHONE NUMBER (972) 771-7770 FOR MORE INFORMATION

#### **UTILITY LINE LOCATES**

A. THE CITY OF ROCKWALL (CITY-UTILITIES) IS NOT PART OF THE DIG-TESS OR TEXAS ONE CALL LINE LOCATE SYSTEM. NOTIFY DIG-TESS OR TEXAS ONE CALL LINE LOCATING SYSTEMS FOR ALL FRANCHISE UTILITY LINE LOCATES DIG-TESS (1-800-DIG-TESS.)

TEXAS ONE CALL SYSTEM INC. (1800-245-4545) B. CALL THE ABOVE NOTED LINE LOCATE SERVICES FOR THE BELOW NOTED UTILITY

LINE LOCATES: AT&T TELEPHONE

ATMOS ENERGY ONCOR - ELECTRIC DELIVERY

CHARTER COMMUNICATIONS. ALL CITY OF ROCKWALL UTILITY LINE LOCATES ARE TO BE SCHEDULED WITH THE CITY, AT THE CITY OF ROCKWALL-SERVICE CENTER. A 48-HOUR ADVANCED NOTICE IS REQUIRED FOR ALL NONEMERGENCY LINE LOCATES. THE TELEPHONE NO. FOR THE SERVICE CENTER IS (972) 771-7730.

#### MINIMUM DETENTION POND REQUIREMENTS - PRIOR TO PAVEMENT PLACEMENT

MINIMUM DETENTION POND REQUIREMENTS PRIOR TO PAVEMENT PLACEMENT: A. THE DETENTION SYSTEMS ARE TO BE INSTALLED AND VERIFIED FOR DESIGN COMPLIANCE ALONG WITH THE ASSOCIATED STORM SEWER AND OUTFLOW STRUCTURES AND DRAINAGE CHANNELS, PRIOR TO THE START OF ANY PAVING

OPERATIONS INCLUDING SLAB WORK. EROSION PROTECTION IS TO BE PLACED AT THE PONDS OUTFLOW STRUCTURE ALONG WITH ANY THE ASSOCIATED EROSION BMP'S NOTED ON THE EROSION

CONTROL PLAN. THE DETENTION POND FLOORS AND SLOPES ARE TO BE STABILIZED WITH SEEDED EROSION CONTROL MATERIAL OR GRASS SOD. THE MATTING OR SOD SHALL BE ANCHORED AT HIGH VELOCITY LOCATIONS IF DEEMED NECESSARY.

#### TRAFFIC CONTROL

IF REQUIRED, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL DESIGN TO THE CITY OF ROCKWALL PREPARED BY A REGISTERED PROFESSIONAL ENGINEER. DESIGN SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL PROVIDE SIGNS AND BARRICADES IN CONSTRUCTION AREAS AND COMPLY WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS OF WORK ZONE TRAFFIC CONTROL.

EMPLOYEES EXPOSED TO PUBLIC VEHICULAR TRAFFIC, SHALL BE PROVIDED WITH AND WEAR WARNING VEST OR OTHER SUITABLE GARMENTS MARKED WITH OR MADE OF REFLECTIVE OR HIGH VISIBILITY MATERIAL. CONTRACTOR SHALL PROVIDE FLAGMAN AS NECESSARY WHEN WORKING INSIDE OF ACTIVE STREET RIGHT-OF-WAYS WHERE NECESSARY.

#### **DISPOSAL OF EXCESS MATERIALS**

THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL EXCESS MATERIAL BY REMOVING FROM THE JOB SITE ALL BRUSH, TRASH, DEBRIS, ETC. UPON COMPLETION OF CONSTRUCTION. ALL MATERIALS SHALL BE PROPERLY DISPOSED. TRASH RECEPTACLES ARE TO BE ON SITE THROUGHOUT THE COURSE OF PROJECT CONSTRUCTION.

#### CONSTRUCTION SITE SAFETY

CONSTRUCTION SITE SAFETY MEASURES ARE TO BE IN PLACE AT ALL CONSTRUCTION PROJECTS LOCATED WITHIN THE CITY OF ROCKWALL. ALL NECESSARY MEASURES REQUIRED TO INSURE THAT SAFE WORK ZONES EXIST FOR THE PROTECTION OF CONSTRUCTION WORKERS AND GENERAL PUBLIC LIVING IN OR NEAR SUCH

- CONSTRUCTION ZONES CONSTRUCTION ZONES SHALL COMPLY WITH WORK ZONE TRAFFIC CONTROL SPECIFICATIONS AND REQUIREMENTS.
- COMPLIANCE WITH ALL APPLICABLE O.S.H.A. REQUIREMENTS AND REGULATIONS. TEMPORARY CONSTRUCTION FENCING (ORANGE MESH FENCING SECURED WITH T-POST) IS TO BE PLACED AROUND OPEN TRENCHES, BRUSH BURN PITS OR OTHER LOCATIONS DEEMED NECESSARY BY THE CITY OF ROCKWALI
- ANY MISCELLANEOUS ITEMS THAT MAY POSE DIRECT OR POTENTIAL HAZARD TO WORKERS OR THE GENERAL PUBLIC THAT IS KNOWN BY THE CONTRACTOR OR BROUGHT TO THE ATTENTION OF THE CONTRACTOR SHALL BE ADDRESSED AS SOON AS POSSIBLE. THE CONTRACTOR SHALL FOLLOW UP WITH THE APPROPRIATE SAFETY MEASURES IN A TIMELY AND EFFICIENT MANNER.

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO ESTABLISH AND MAINTAIN CONSTRUCTION SITE SAFETY MEASURES. HOWEVER, THE CITY OF ROCKWALL WILL TEMPORARILY SUSPEND WORK AT A CONSTRUCTION SITE IF IT IS DEEMED NECESSARY DUE TO UNSAFE OR HAZARDOUS CONDITIONS UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED.

IN EACH CIRCUMSTANCE WHERE IT IS DEEMED THAT PROPER SAFETY MEASURES ARE NOT BEING FOLLOWED. A WARNING WILL BE ISSUED BY THE PROJECT CONSTRUCTION INSPECTOR. CONSTRUCTION MAY BE TEMPORARILY SUSPENDED IF DEEMED NECESSARY UNTIL ITEMS RESPONSIBLE FOR ISSUANCE OF THE SAFETY WARNING HAVE BEEN PROPERLY ADDRESSED. ISSUANCE OF THREE (3) OR MORE SAFETY WARNING TAGS WILL REQUIRE THAT THE DESIGNATED CONSTRUCTION BE SUSPENDED UNTIL SUCH TIME THAT A SAFETY MEETING IS SCHEDULED WITH CONSTRUCTION CONTRACTORS, OWNERSHIP, MANAGEMENT, SAFETY MANAGER, OR OTHER APPROPRIATE PERSONNEI ALONG WITH CITY OR ROCKWALL REPRESENTATIVES TO DISCUSS THE APPROPRIATE MEASURES TO CORRECT THE IDENTIFIED PROBLEMS AND DETERMINE ANY FURTHER POSSIBLE ACTIONS WHICH MAY BE NECESSARY.

#### **BURNING BUSH – BURN PITS**

BRUSH MAY BE BURNED UNDER CERTAIN CONDITIONS; HOWEVER, PERMISSION MUST BE OBTAINED THROUGH THE CITY OF ROCKWALL FIRE MARSHALL'S OFFICE. LOCATIONS, CONDITIONS, AND PERMISSION TO BURN ARE SUBJECT TO THE APPROVAL OF THE ROCKWALL FIRE DEPARTMENT. A PERMIT FROM THE TCEQ MUST ALSO BE OBTAINED ALONG WITH ANY OTHER PERMITS OR REQUIREMENTS DEEMED NECESSARY BY THE FIRE MARSHALL'S OFFICE PRIOR TO APPROVAL TO BURN. ALL BURN PITS ARE TO HAVE PORTABLE SAFETY FENCING PLACED AROUND THE

PERIMETER OF THE PIT AND SECURED WITH T-POST AT THE END OF EACH DAY.

#### STREET ADDRESS MARKERS

STREET ADDRESS MARKERS SHALL BE INSTALLED FOR EACH LOT IN THE SUBDIVISION THE MARKERS SHALL BE LOCATED AT THE CENTER OF THE LOT ON THE FACE OF THE CURBS. THE ADDRESS MARKERS SHALL HAVE A DEEP GREEN BACKGROUND WITH REFLECTIVE WHITE NUMBERS. THE NUMBER SIZE SHALL BE FOUR (4) INCHES IN HEIGHT THE BACKGROUND OF THE ADDRESS MARKER SHALL BE EIGHTEEN (18) INCHES IN LENGTH AND FROM THE TOP OF THE CURB TO THE GUTTER FLOW LINE. THE ADDRESS MARKER SHALL SHOW THE FULL NUMERICAL PORTION OF THE ADDRESS OF THE LOT.

#### **TESTING & QUALITY CONTROL**

DURING CONSTRUCTION THE CONTRACTOR SHALL FURNISH THE FOLLOWING AT HIS

OWN EXPENSE: - BATCH PLANT CONTROL FROM A QUALIFIED COMMERCIAL LABORATORY. LABORATORY PERSONNEL SHALL BE COMPETENT TO DETERMINE FREE MOISTURE IN AGGREGATES AND MAKE NEEDED ADJUSTMENTS IN CONTROL

OF THE MIX AND SLUMP. PREPARE A MINIMUM FOUR COMPRESSION CYLINDERS FOR EACH 150 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF, WITH ONE CYLINDER BREAK AT 7 DAYS, ONE AT 14 DAYS, AND A MINIMUM OF TWO CYLINDERS BROKEN AT 28 DAYS.

NOTE\* NO AVERAGING ON CYLINDER BREAKS. TESTING LABS ARE TO FAX COPIES OF ANY AND ALL CONCRETE CYLINDER BREAKS TAT DO NOT MEET 28 DAY BREAK SPECIFICATIONS. CORES ARE TO BE TAKEN WITHIN TEN (10) DAYS OF ANY 28 DAY CYLINDER BREAK FAILURES.

REPORTING OF TEST RESULTS TO THE DEVELOPER AND THE CITY OF ROCKWALL (REFER TO THE CITY OF ROCKWALL STANDARD OF DESIGN) FOR FURTHER INFORMATION UNDER EXTREME HOT TEMPERATURES OR HUMID CONDITIONS, THE CITY OF ROCKWALL MAY REQUIRE THE USE OF A SET RETARDING AGENT. THE CITY OF ROCKWALL MAY SUSPEND CONCRETING OPERATIONS IF THE QUALITY OF THE CONCRETE BEING PLACED IS NOT ACCEPTABLE OR DUE TO ADVERSE CLIMATE CONDITIONS.

#### SUBMITTAL OF CONCRETE MIX DESIGN

SUBMIT BATCH DESIGNS WITH HISTORY OF RECENT CYLINDER BREAKS FOR EACH SEPARATE STRENGTH REQUIREMENT (MACHINE PLACEMENT AND HAND POUR). SUBMIT BATCH DESIGNS MINIMUM OF (10) WORKING DAYS PRIOR TO THE PROJECTED PLACEMENT DATE TO ALLOW TIME FOR REVIEW. THE BATCH DESIGN SHALL BE DATE, PROJECT, AND USE SPECIFIC. IF PRE-CAST STRUCTURES ARE TO BE PLACED, A BATCH DESIGN IS TO BE INCLUDED WITH THE PRE-CAST SUBMITTALS WHICH ARE TO BE PROVIDED BY THE MANUFACTURER.

#### REINFORCING STEEL

REINFORCING STEEL PLACED WITHIN THE PUBLIC RIGHT-OF-WAYS SHALL BE GRADE 60 STEEL AND COMPLY WITH TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATION ITEM 440.2.

#### **CONSTRUCTION METERS**

ALL CONSTRUCTION METERS ARE TO BE EQUIPPED WITH A DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE WITH DUAL TEST PORTS AND DOUBLE CHECK VALVES. ALL CONSTRUCTION METERS ARE TO BE APPROVED AND TAGGED BY THE CITY OF ROCKWALL. THE TAG IS TO REMAIN ON METER AT ALL TIMES. IF TAG IS DAMAGED OR LOST, IMMEDIATELY NOTIFY THE CITY OF ROCKWALL PUBLIC SERVICE DEPARTMENT. ANY CONSTRUCTION METER IN USE WITHOUT A TAG WILL BE REMOVED BY CITY PERSONNEL. THE USE OF THE NON-APPROVED METERS WILL RESULT IN THE CITY OF ROCKWALL CHARGING FOR AN ESTIMATED WATER USE AND POSSIBLE FINES.

#### **CONNECTING TO FIRE HYDRANTS – WATER FOR** CONSTRUCTION

WATER FOR CONSTRUCTION – CONNECTING TO FIRE HYDRANTS (ORDINANCE # 03-37): A. CONSTRUCTION METER BACKFLOW PREVENTION – ALL CONSTRUCTION METERS ARE TO BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE WITH DOUBLE CHECK VALVES AND DUAL TEST PORTS. ALL BACKFLOW DEVISES SHALL HAVE A BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT FROM A CERTIFIED

BACKFLOW TESTER, WHEN REGISTERING METER AT THE CITY OF ROCKWALL

SERVICE CENTER. CITY OF ROCKWALL CONSTRUCTION METER RENTAL

A MONTHLY RENTAL FEE CHARGE OF \$50.00 WILL BE REOUIRED FOR CITY OWNED RENTAL METERS. THE CITY DOES NOT RENT BACKFLOW PREVENTION DEVICES. METER RENTAL IS SUBJECT TO AVAILABILITY. TO CHECK FOR METER AVAILABILITY, CALL THE CITY OF ROCKWALL – SERVICE CENTER AT TELEPHONE NUMBER (972)

CONSTRUCTION METER DEPOSIT - A DEPOSIT OF \$850.00 WILL BE REQUIRED FOR A CITY OWNED RENTED METER OR A CUSTOMER OWNED METER.

#### **COLLECTION AND DELIVERY OF WATER SAMPLES BY CITY** REPRESENTATIVE

COLLECTION OF CONSTRUCTION WATER SAMPLES:

A. EFFECTIVE DECEMBER 1, 2006 IT WILL BE REQUIRED THAT A CITY REPRESENTATIVE ACCEPT CONSTRUCTION WATER SAMPLES PER THE REQUEST OF THE NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD).

THE NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD) REQUIRES THAT ALL WATERS SAMPLES TAKEN WITHIN THE CITY OF ROCKWALL BE DELIVERED TO THEIR FACILITY BY A CITY EMPLOYEE

CONTACT THE CITY OF ROCKWALL SERVICE CENTER AT (972) 771-7730 TO ARRANGE FOR THE SAMPLING. A 24-HOUR ADVANCED NOTICE IS REQUIRED. YOU WILL NEED TO PROVIDE THE JOBSITE AND SAMPLE SITE LOCATION AT THE TIME OF **SCHEDULING** 

THE HOURS OF ACCEPTANCE ARE AS FOLLOWS; MONDAY – THURSDAY 10:00 AM TO 12:00 PM. NO SAMPLES WILL BE SCHEDULED FOR FRIDAY

#### **EROSION CONTROL**

REQUIRED DOCUMENTS AND PERMITS

A. STORM WATER POLLUTION PREVENTION PLAN (SWP3) – A COPY OF THE (SWP3) IS

TO BE SUBMITTED TO THE CITY, IF THE PROJECT DISTURBS 1-ACRE OR MORE. STORM WATER NOTICE OF INTENT (NOI) - A COPY OF THE NOI WILL BE REQUIRED IF THE DISTURBED AREA AT THE PROJECT IS (5-ACERS OR MORE) OR IF THE PROJECT WILL DISTURB 1 OR MORE ACRES, BUT LESS THAN 5-ACRES AND IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL DISTURB 5-ACRES.

TPDES GENERAL PERMIT NO. TXR 150000 - PROVIDE A COPY OF THE GENERAL PERMIT TO THE CITY OF ROCKWALL IF THE PROJECT IS 1 TO LESS THAN 5-ACRES

ADMINISTRATIVE POLICY (97-03) - TO BE SIGNED BY THE OWNER AND THE DESIGN ENGINEER. THIS IS A CITY OF ROCKWALL – ADMINISTRATIVE POLICY. A COPY OF THIS POLICY WILL BE PRESENTED AT THE PRE-CONSTRUCTION MEETING. MAINTENANCE OF EROSION CONTROL DEVICES:

MAINTAIN THE SILT FENCING, AND THE CONSTRUCTION ENTRANCE ALONG WITH

ALL OTHER APPROVED CONSTRUCTION SITE EROSION BMP'S THAT IS INSTALLED AT KEEP DIRT AND OR MUD OFF PUBLIC STREETS AND FIRE LANES . HAVE SUFFICIENT EQUIPMENT AND MATERIALS ON SITE TO SAFELY REMOVE MUD/DIRT FROM THE ROADWAY WHEN NECESSARY. THE MATERIALS SHOULD INCLUDE:

TRAFFIC FLAGS, BROOMS SHOVELS, SAFETY VEST, TRAFFIC CONES, VERTICAL

PANELS OR OTHER APPROVED TRAFFIC CHANNELING DEVICES.

#### GENERAL FILL MATERIAL PLACEMENT

THE CITY OF ROCKWALL REQUIRES THE USE OF A SHEEP'S-FOOT ROLLER AT ALL GENERAL FILL LOCATIONS. MECHANICAL TAMPING IS ALLOWED FOR TRENCH BACKFILL. THE SHEEP'S FOOT ROLLER IS TO BE ON SITE AND ACTIVE WHENEVER GENERAL FILL MATERIAL IS BEING PLACED. SEE SPECIFICATIONS FOR DENSITY AND MOISTURE REQUIREMENTS.

#### **BACKFILL UNDER R.O.W.**

MECHANICAL TAMPING: THE BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NO EXCEEDING 8" LOOSE THICKNESS. THE MOISTURE CONTENT SHALL BE UNIFORM AND NEAR THE OPTIMUM MOISTURE CONTENT FOR THE MATERIAL. IN CASES WHERE THE MATERIALS BEING PLACED DO NOT HAVE THE PROPER MOISTURE, THE MATERIAL SHALL BE DRIED OUT OR ADDITIONAL MOISTURE SHALL BE ADDED BY SATISFACTORY METHODS SUCH THAT THE ADDITIONAL WATER IS DISTRIBUTED UNIFORMLY THROUGHOUT THE MATERIAL BEING PLACED. THE LAYERS OF BACKFILL SHALL BE REDUCED IN THICKNESS WHEN SATISFACTORY COMPACTION CANNOT BE OBTAINED WITH THE EQUIPMENT BEING USED. IN ALL CASES A DENSITY OF NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY MUST BE OBTAINED. THE CONTRACTOR SHALL ARRANGE FOR THE NECESSARY LABORATORY TESTING, AT HIS EXPENSE, TO DETERMINE THE DENSITY OF THE MATERIAL. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS AND SHALL USE METHODS AND CONSTRUCTION OPERATIONS ESTABLISHED BY THE CITY OF ROCKWALL SO THAT UNIFORM TEST OF

ROLLING COMPACTION METHODS: THE BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 8" LOOSE THICKNESS. THE MOISTURE CONTENT IN THE MATERIAL BEING ROLLED SHALL BE UNIFORM AND NEAR THE OPTIMUM MOISTURE CONTENT FOR THE MATERIAL. IN CASES WHERE THE MATERIAL SHALL BE DRIED OUT OR ADDITIONAL MOISTURE SHALL BE ADDED BY SATISFACTORY METHODS SUCH THAT THE ADDITIONAL WATER IS DISTRIBUTED UNIFORMLY THROUGHOUT THE MATERIALS BEING PLACED. THE LAYERS OF BACKFILL SHOULD BE REDUCED IN THICKNESS WHEN SATISFACTORY COMPACTION CANNOT BE OBTAINED WITH EQUIPMENT BEING USED. IN ALL CASES A DENSITY OF NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY MUST BE OBTAINED. NOTE\* ALL OUTSIDE UTILITIES WORKING WITHIN THE RIGHT-OF-WAYS OF STREETS OR ALLEYS SHALL ALSO COMPLY WITH THE ABOVE NOTED SPECIFICATIONS WITH LABORATORY TESTING RESULTS PROVIDED TO THE CITY OF ROCKWALL. EASEMENT LOCATIONS UNDER PAVEMENT SHALL ALSO HAVE DENSITY CONTROL BACKFILL TO 95% OF THE STANDARD PROCTOR DENSITY. NOTE\* LABORATORY DENSITY REPORTS ARE REQUIRED AT ALL UTILITY LOCATIONS WHERE THE TRENCH EXCAVATION EXCEEDS A WIDTH OF TEN (10) INCHES. TRENCHES FOR BOTH SITE CIVIL AND FRANCHISE UTILITIES ARE TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY WITH LABORATORY SOIL TEST RESULTS SUBMITTED TO THE CITY OF ROCKWALL. ALL DENSITIES ARE TO BE WITHIN THE ACCEPTABLE MOISTURE RANGE OF (-2 TO +4) PERCENT OF OPTIMUM MOISTURE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

#### **INLETS & MANHOLES**

COMPACTION CAN BE OBTAINED

INLETS AND MANHOLES WITHIN THE PROPOSED PAVING WIDTH SHALL BE BACKFILLED AS SPECIFIED IN BACKFILL UNDER PAVEMENT R.O.W.

#### **VACUUM TESTING – SANITARY SEWER MANHOLES**

VACUUM TEST AND SPARK TEST SHALL BE CONDUCTED ON ALL SANITARY SEWER MANHOLES. ALL TESTING SHALL COMPLY WITH CITY OF ROCKWALL SPECIFICATIONS.

#### **BACKFILLING FOR BOX CULVERTS & WING WALLS**

BACKFILLING FOR AND WING WALLS SHALL CONSIST OF CRUSHED LIMESTONE TYPE I EMBEDMENT OR GRAVEL TYPE II EMBEDMENT FOR A DISTANCE OF APPROXIMATELY TWO (2) FEET IN BACK OF THE ENTIRE WALL, AND SUITABLE EXCAVATED MATERIAL FOR THE REMAINDER OF THE BACKFILL. THE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

#### **SLOPES**

ALL SLOPES SHOULD BE 4:1 OR GREATER WITH THE MAXIMUM SLOPE ALLOWED BEING A 3:1 SLOPE, ALL 3:1 SLOPES MUST HAVE PRIOR APPROVAL BY THE CITY OF ROCKWALL, IN LOCATIONS WHERE A 3:1 SLOPE IS NOT POSSIBLE OR FEASIBLE, RETAINING WALLS, GABION BASKETS, CONCRETE SLOPE PROTECTION OR OTHER APPROVED RETAINING METHODS MAY BE REQUIRED. RETAINING METHODS MUST BE APPROVED BY THE CITY OF ROCKWALL.

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#### **RETAINING WALLS**

RETAINING WALLS THAT ARE TO BE INSTALLED WITH THE INITIAL PHASE OF THE DEVELOPMENT SHALL HAVE CONSTRUCTION PLANS SEALED BY A REGISTERED STRUCTURAL ENGINEER AND APPROVED BY THE CITY OF ROCKWALL ENGINEERING DEPARTMENT BEFORE CONSTRUCTION MAY BEGIN. ALL RETAINING WALLS SHALL BE PLACED ACCORDING TO OFFSET HUBS SET BY CERTIFIED PROFESSIONAL SURVEYORS NOTING GRADE CUTS, WALL ELEVATIONS AND STOP POINTS FOR EACH WALL END. PROPERTY LINES AND RIGHT-OF-WAYS SHALL ALSO BE NOTED. WALL LOCATIONS AND ELEVATIONS SHALL MATCH THOSE SHOWN ON APPROVED SITE GRADING PLANS. THE CITY REQUIRES A VERIFICATION LETTER (SIGNED/SEALED) FROM THE DESIGN ENGINEER STATING THAT THE RETAINING WALLS INSTALLED WITH THE SUBDIVISION/SITE WERE INSPECTED BY THE ENGINEER OR HIS/HERS DESIGNATED REPRESENTATIVE AND THAT THEY WERE INSTALLED TO HIS/HER DESIGN AND GENERAL CONSTRUCTION STANDARDS THE VERIFICATION LETTER SHALL BE DELIVERED TO THE ENGINEERING DEPARTMENT PRIOR TO PROJECT ACCEPTANCE. THE CITY OF ROCKWALL WILL CONDUCT PERIODIC NONSCHEDULED INSPECTIONS OF THE RETAINING WALL CONSTRUCTION AND BACKFILI

#### STORM SEWER INLETS & JUNCTION BOXES - FORMS

ALL INLETS AND DRAINAGE STRUCTURES SHALL BE DOUBLE FORMED. NO EARTH FORMS WILL BE ALLOWED. ALL STRUCTURAL CONCRETE IS TO BE 4,200 PSI (MIN 7 SACK MIX) STRENGTH MINIMUM. ALL PRE-FABRICATED STRUCTURES ARE TO BE APPROVED BY THE CITY ENGINEER PRIOR TO USE.

#### **GRADE & ALIGNMENT**

AT THE BEGINNING OF THE PROJECT THE DEVELOPER WILL PROVIDE OFFSET STAKES AT INTERVALS OF 50 FEET. THESE STAKES WILL OFFSET FROM THE BACK OF THE OUTSIDE CURB, A CONVENIENT DISTANCE TO PERMIT ALL OPERATIONS, TO BE COMPLETED WITHOUT DISTURBING THESE STAKES. INFORMATION ON THESE STAKES WILL BE AS

FOLLOWS:

STATION NUMBER OFFSET DISTANCE FROM BACK OF CURB.

ELEVATIONS OF HUB, WHICH WILL BE GIVEN IN TABULAR FORM SEPARATELY IT WILL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THESE STAKES. AND USE THE INFORMATION FOR ALL OTHER HORIZONTAL AND VERTICAL CONTROL REQUIRED THE CONTRACTOR WILL BE REQUIRED TO FURNISH EXPERIENCED PERSONNEL TO DO THIS WORK. THE CONTRACTOR WILL SET ALL FORMS USING THE DATA SHOWN ON PLANS. BLUE TOPS FOR FINAL GRADING AND ALL OTHER VERTICAL AND HORIZONTA

#### **SOIL TREATMENT – LIME SUBGRADES**

LIME SUBGRADE TEST – REQUIREMENTS FOR MIXING AND PULVERIZING OF MATERIALS AND COMPACTION SHALL BE AS SPECIFIED IN THE VARIOUS ITEMS OF THE CITY OF

ROCKWALL STANDARD OF DESIGN AND SPECIFICATIONS SCARIFICATION ADDITION OF TREATMENT MATERIAL

PRELIMINARY MIXING CURING TIME UP TO 72 HOURS

FINAL MIXING PULVERIZING TESTING

COMPACTION OPERATIONS

IN PLACE MOISTURE DENSITY AND THICKNESS TEST PROTECT SUBGRADE SURFACE - \*LIME STABILIZATION ONLY

#### **TESTING & TELEVISION INSPECTION REQUIREMENTS**

A. ALL SANITARY SEWER PIPE ALONG WITH STORM SEWERS AND LATERALS SHALL BE VISUALLY INSPECTED BY PHOTOGRAPHIC MEANS (TELEVISION AND DVD) PRIOR T FINAL ACCEPTANCE. SANITARY SEWER IS TO RECEIVE SEWER TELEVISION INSPECTION AGAIN AT TEN (20) MONTHS IN TO THE ONE (2) YEAR MAINTENANCE WARRANTY. NO SEPARATE PAYMENT OR PAYMENTS SHALL BE PROVIDED FOR THE VIDEO INSPECTION. THE CONTRACTOR SHALL FURNISH A DVD TO THE CITY OF

ROCKWALL. ALL STORM SEWERS SHALL BE VISUALLY INSPECTED BY PHOTOGRAPHIC MEANS (TELEVISION AND VIDEOTAPED/DVD) AT THE CONTRACTORS EXPENSE PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROCKWALL. ANY SAGS, OPEN JOINTS, CRACKED PIPER, ETC. SHALL BE REPAIRED OR REMOVED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. PIPES SHALL BE CLEANED PRIOR TO TELEVISING THE PIPE. THE CONTRACTOR SHALL FURNISH A DVD TO THE CITY OF ROCKWALL.

#### TWENTY MONTH MAINTENANCE SITE REVIEW

REVIEW OF THE SITE SHALL BE CONDUCTED AT TEN (20) MONTHS INTO THE ONE (2) YEAR MAINTENANCE PERIOD. THE DESIGN ENGINEER OR HIS/HER DESIGNATED REPRESENTATIVE SHALL BE PRESENT TO WALK THE SITE WITH CITY OF ROCKWALL ENGINEERING DEPARTMENT PERSONNEL. A SECOND TELEVISION INSPECTION OF THE SANITARY SEWER PIPE IS ALSO TO BE CONDUCTED DURING REVIEW WITH A DVD FURNISHED TO THE CITY OF ROCKWALL. THE CITY OF ROCKWALL WILL TRACK THE TWENTY-MONTH TIMELINE.

: N G I N E E R I N G C O N S U L T I N G

September 18, 2015

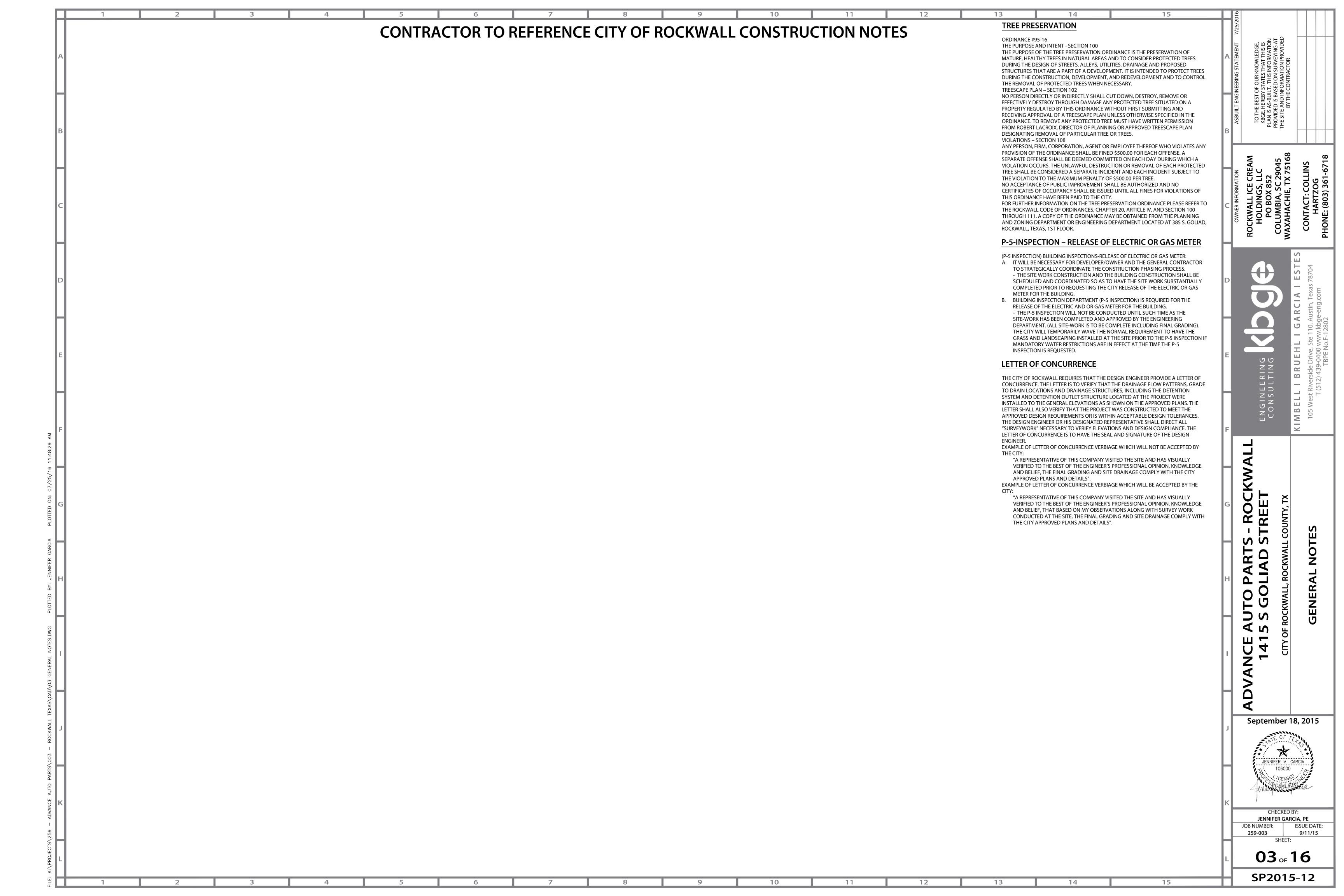


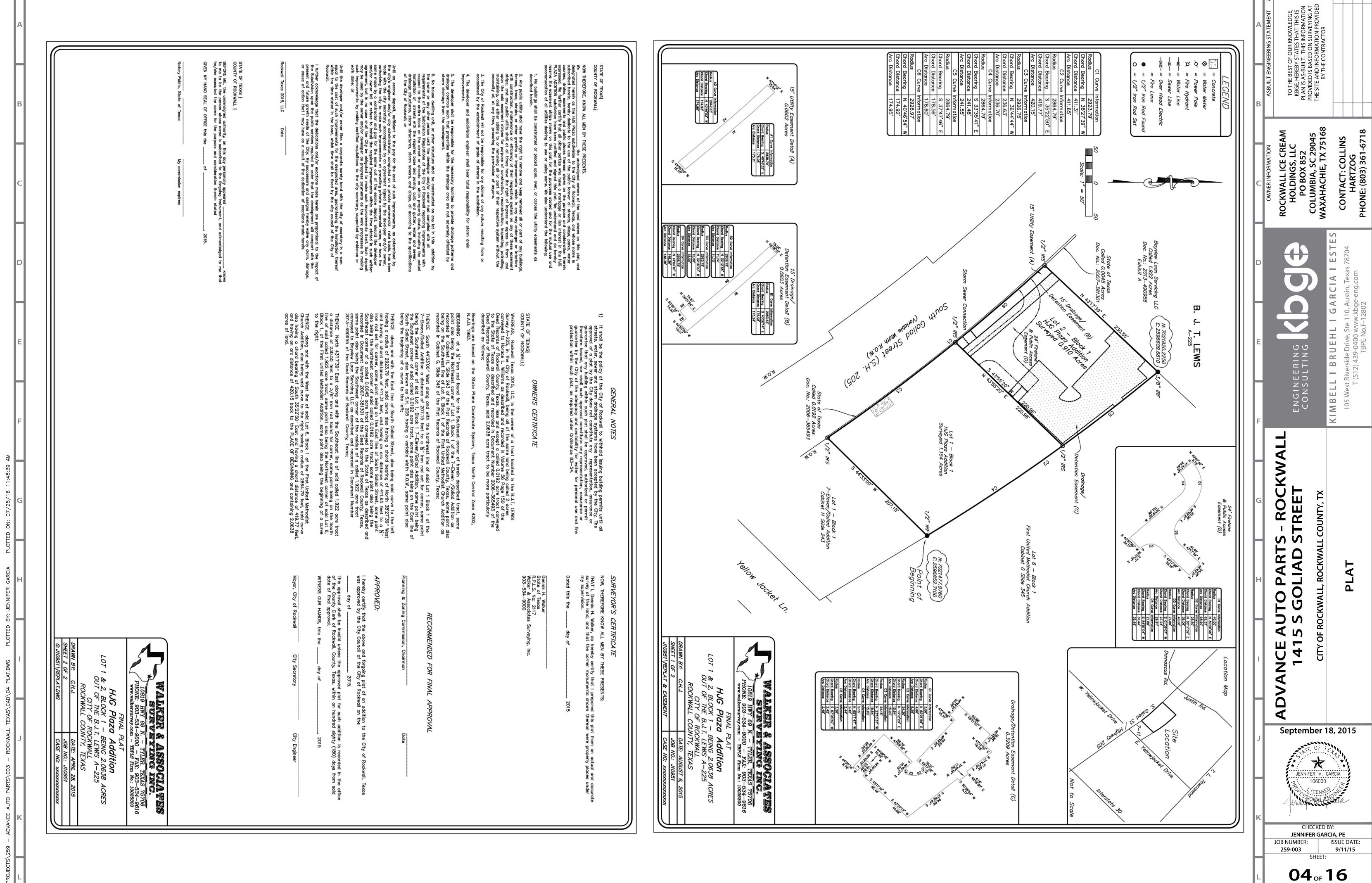
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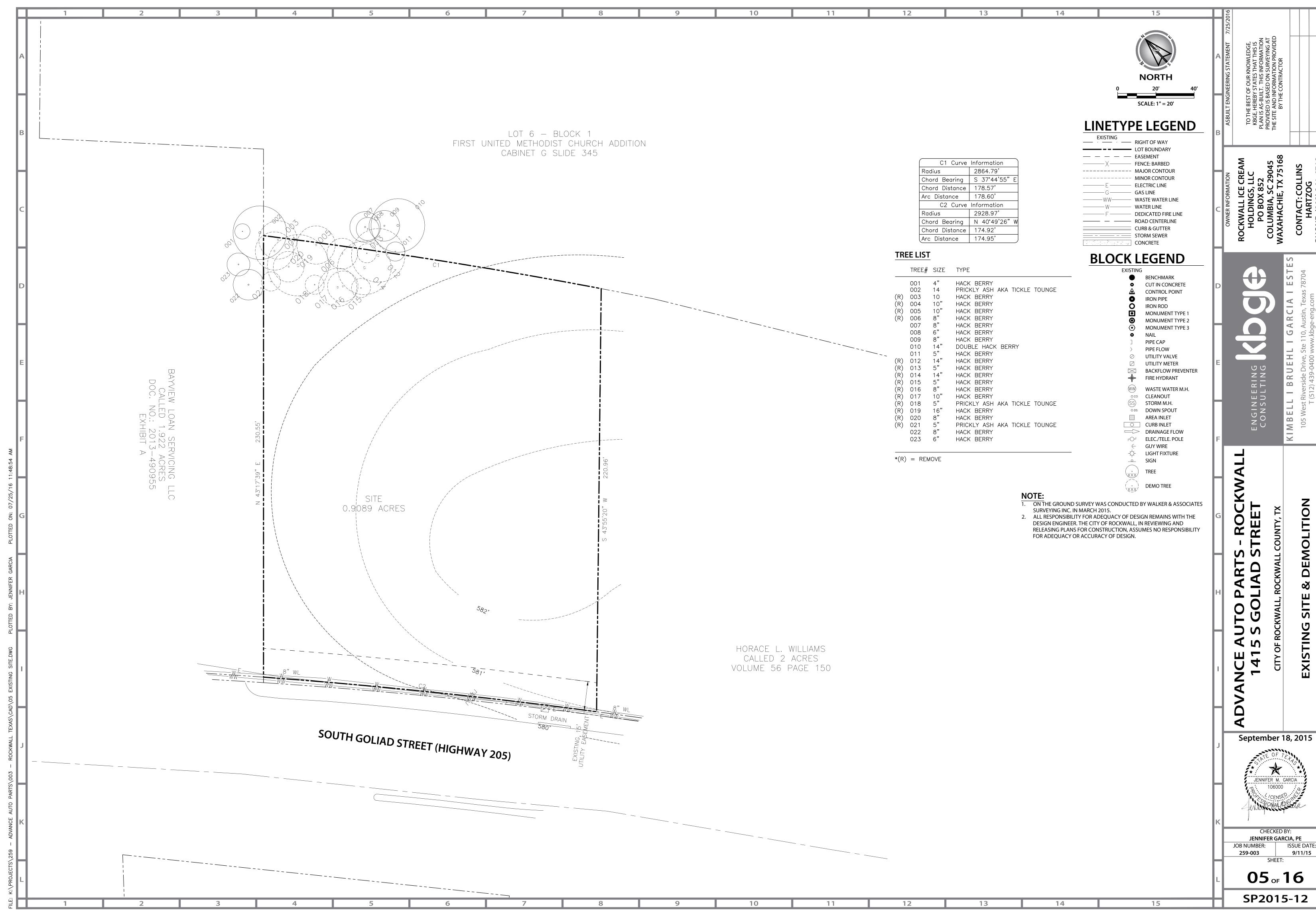
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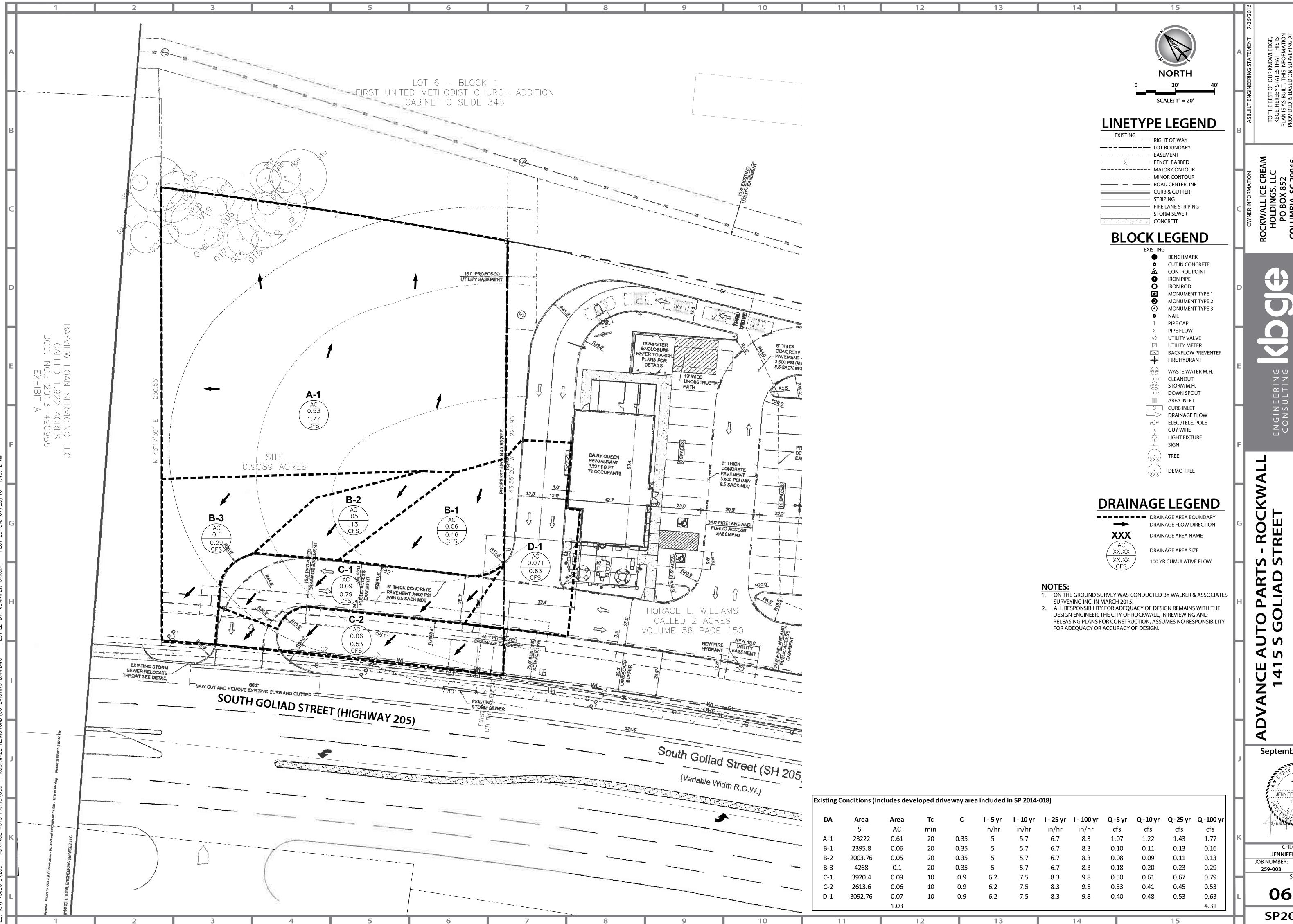






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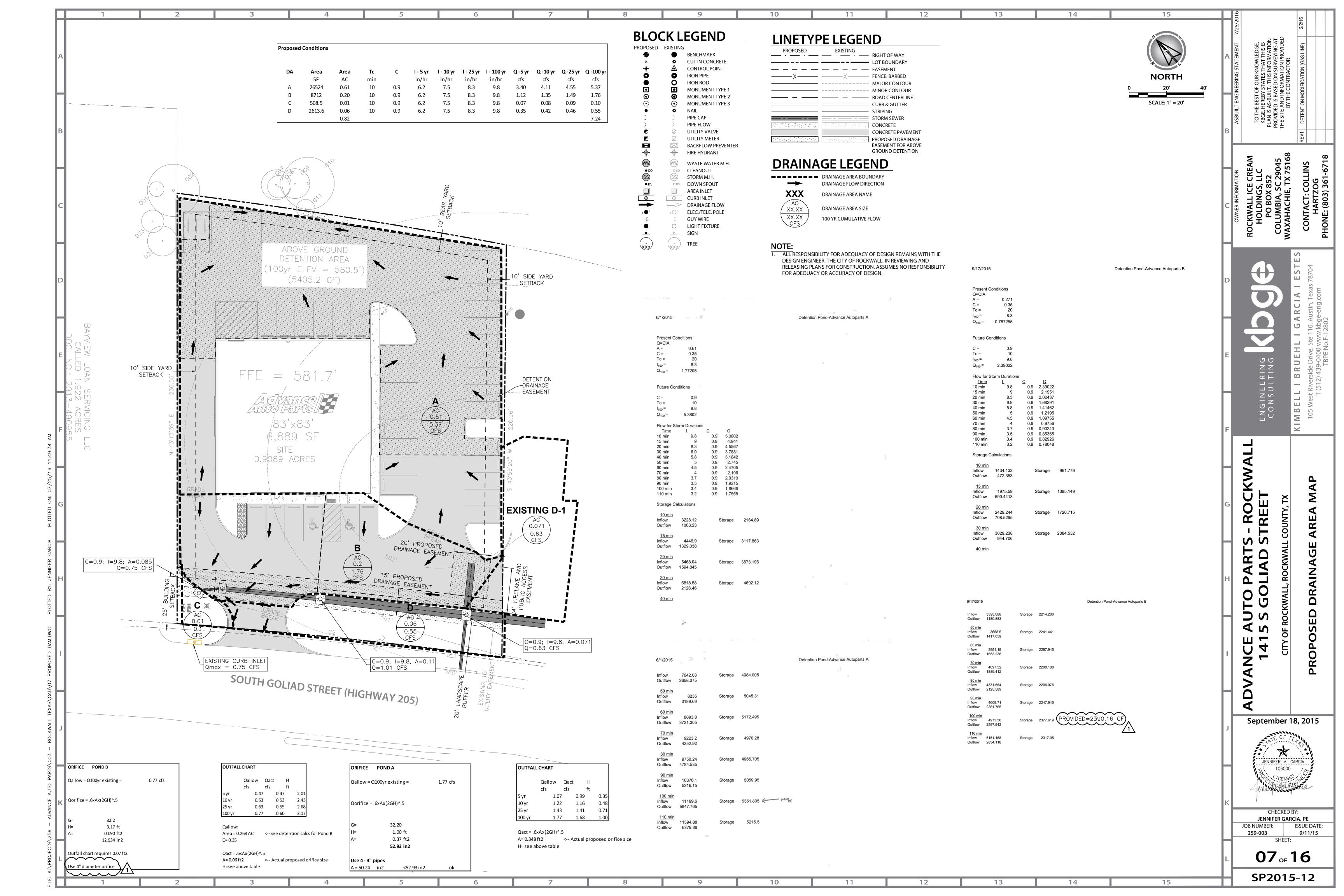


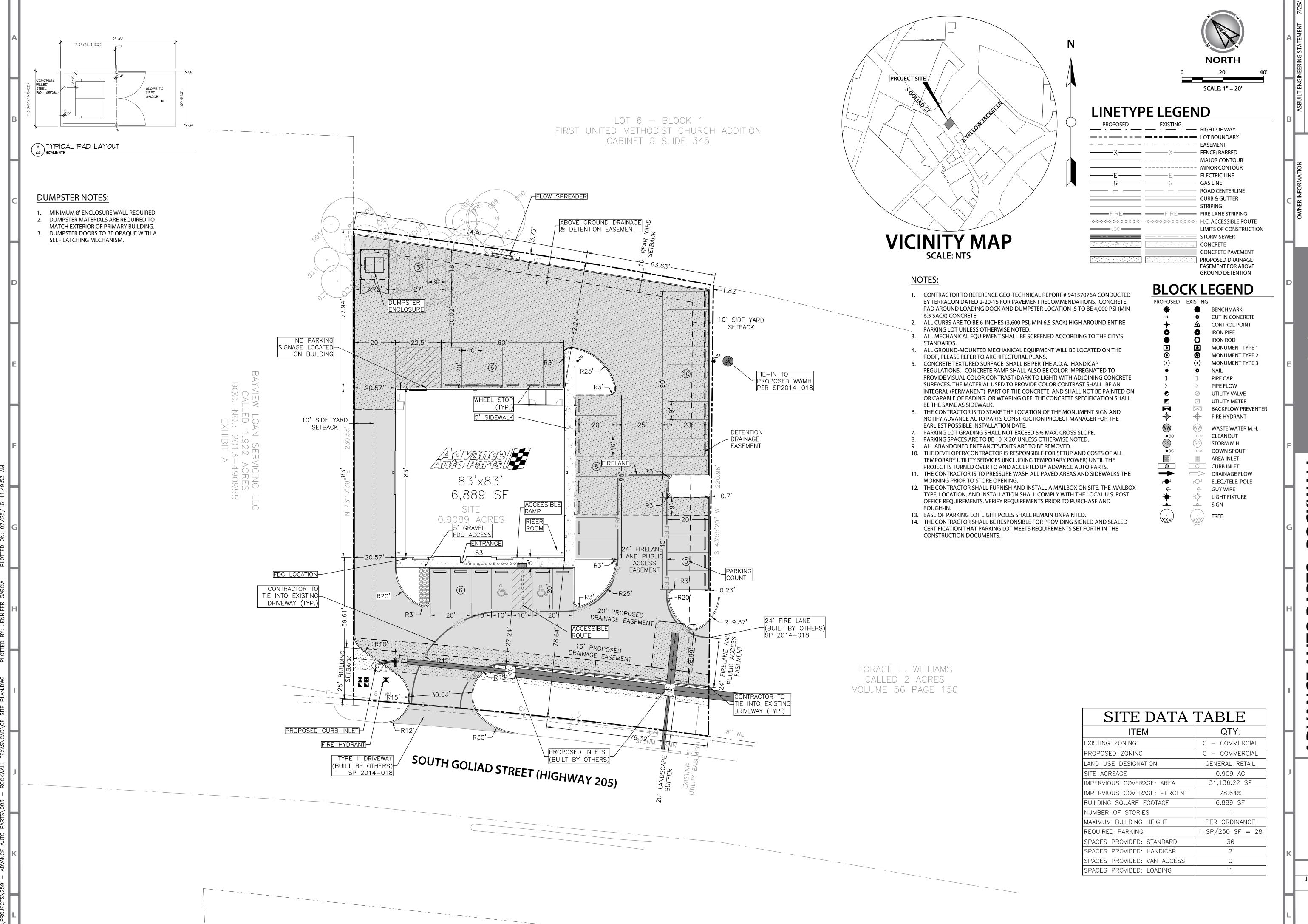
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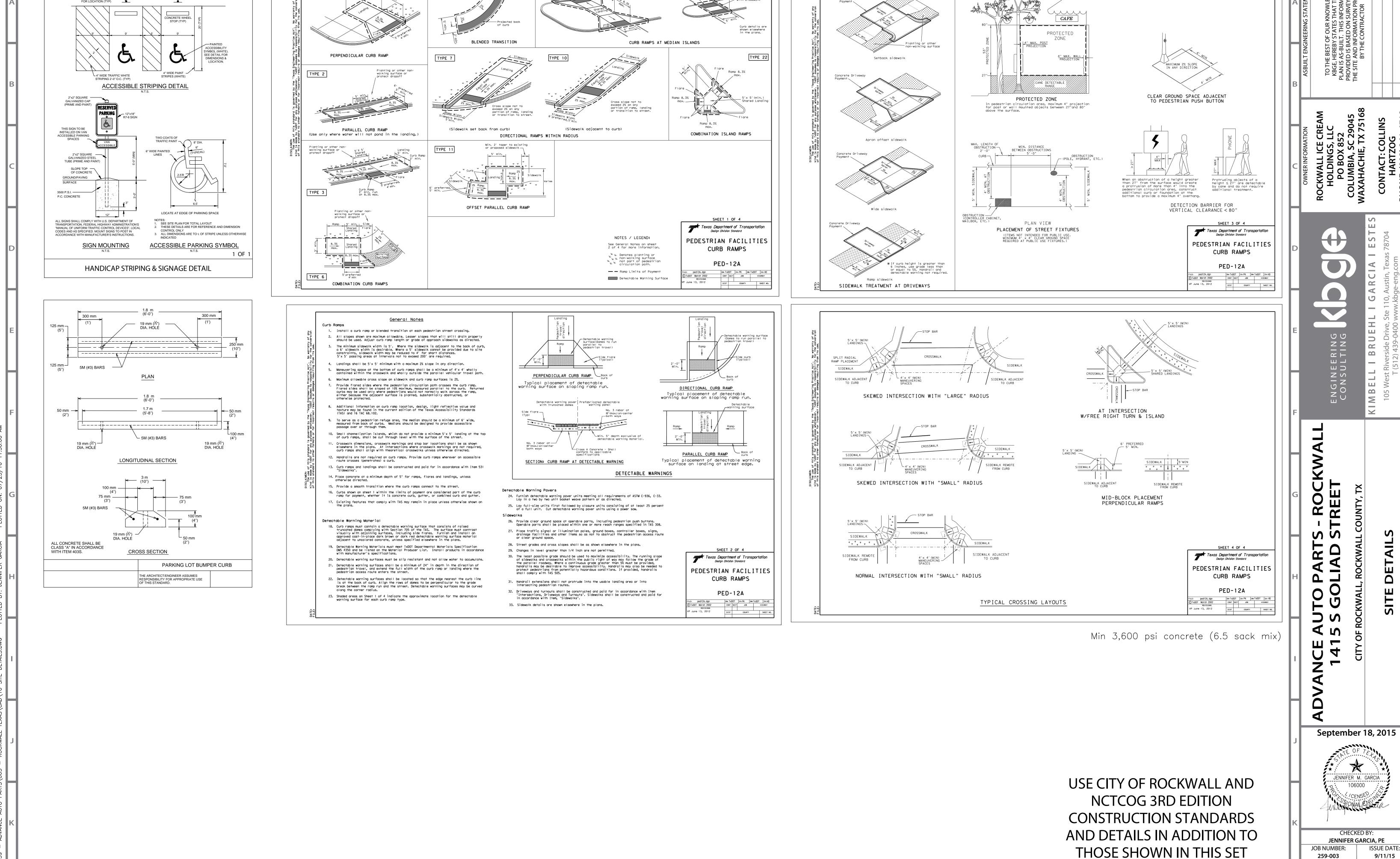
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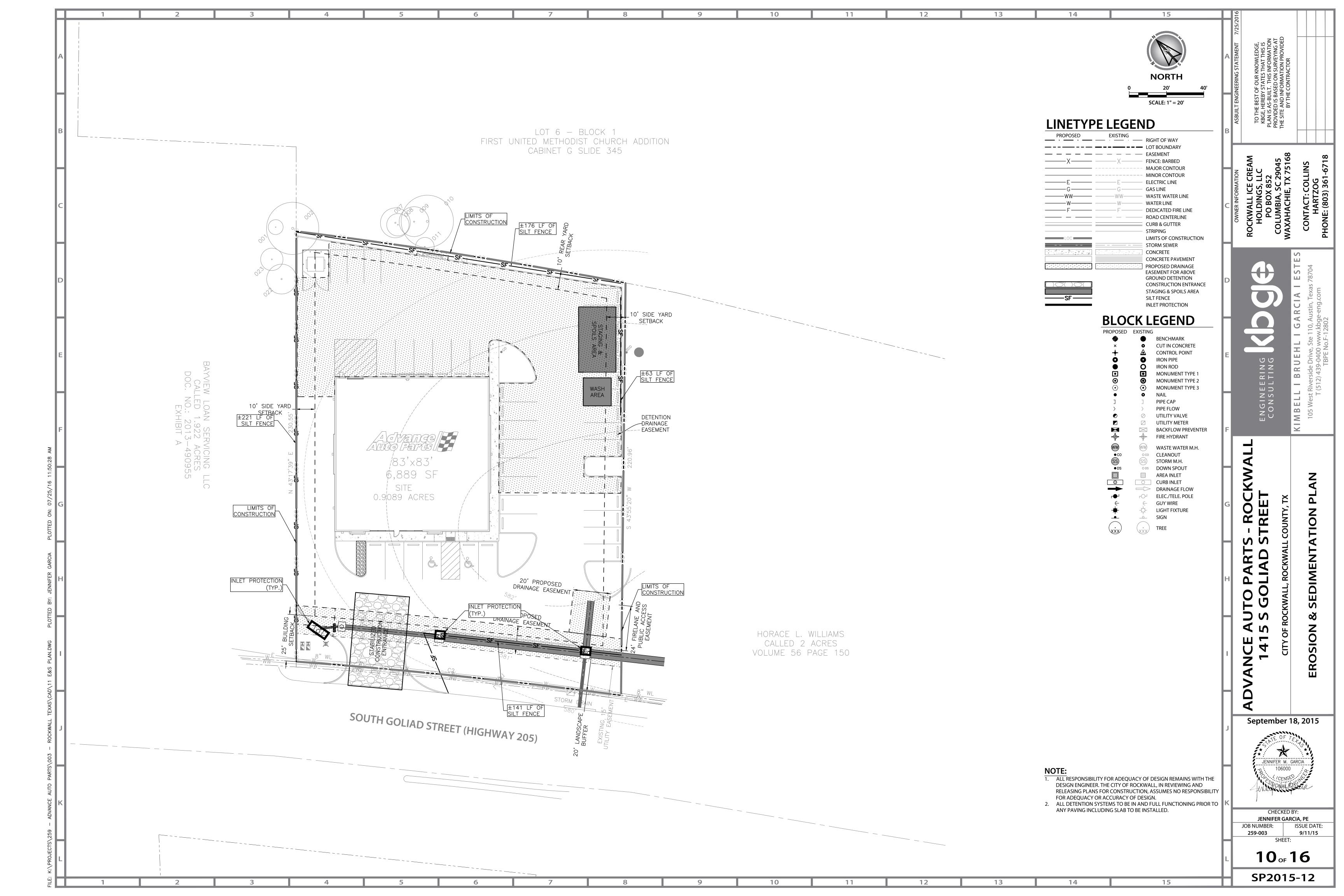
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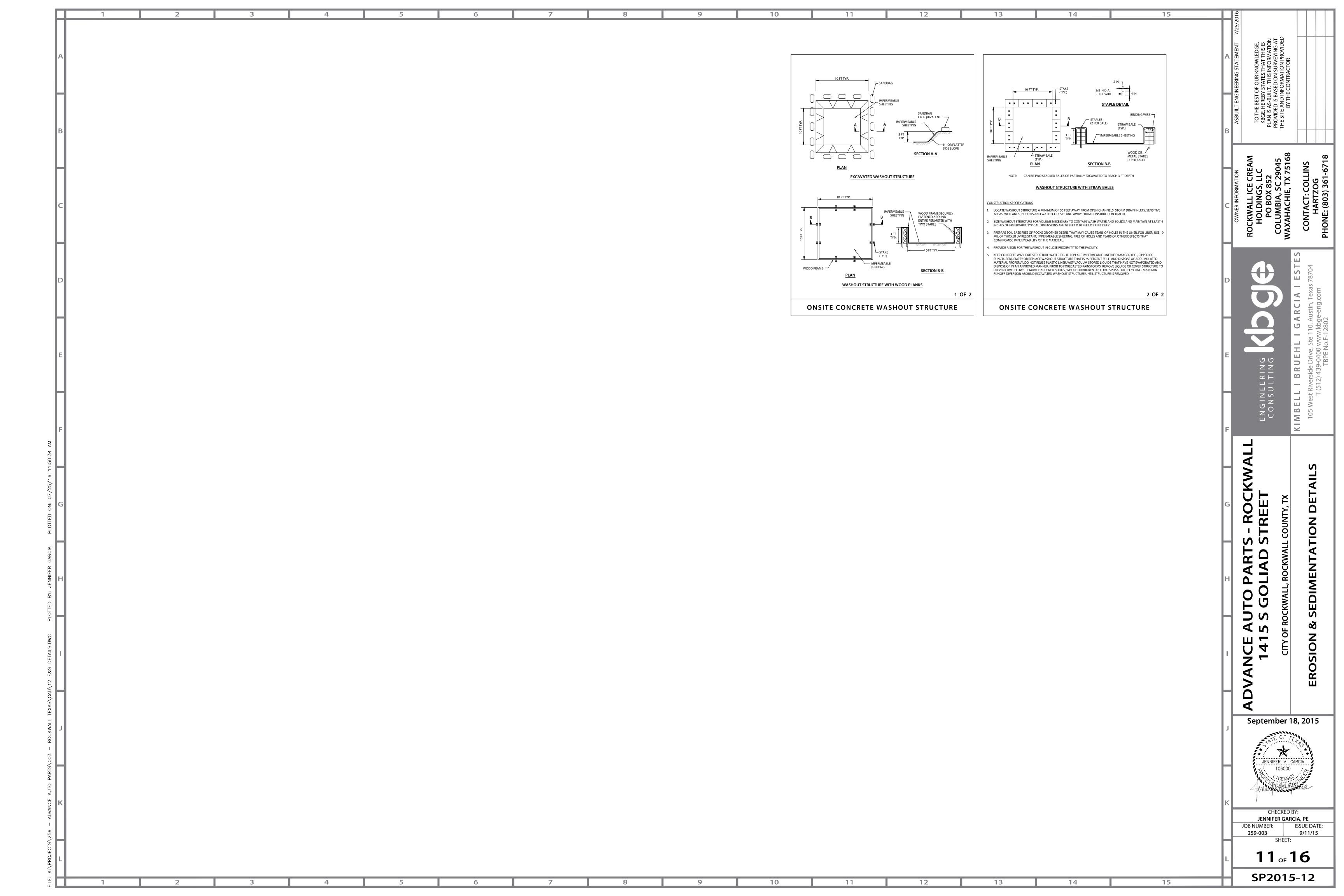
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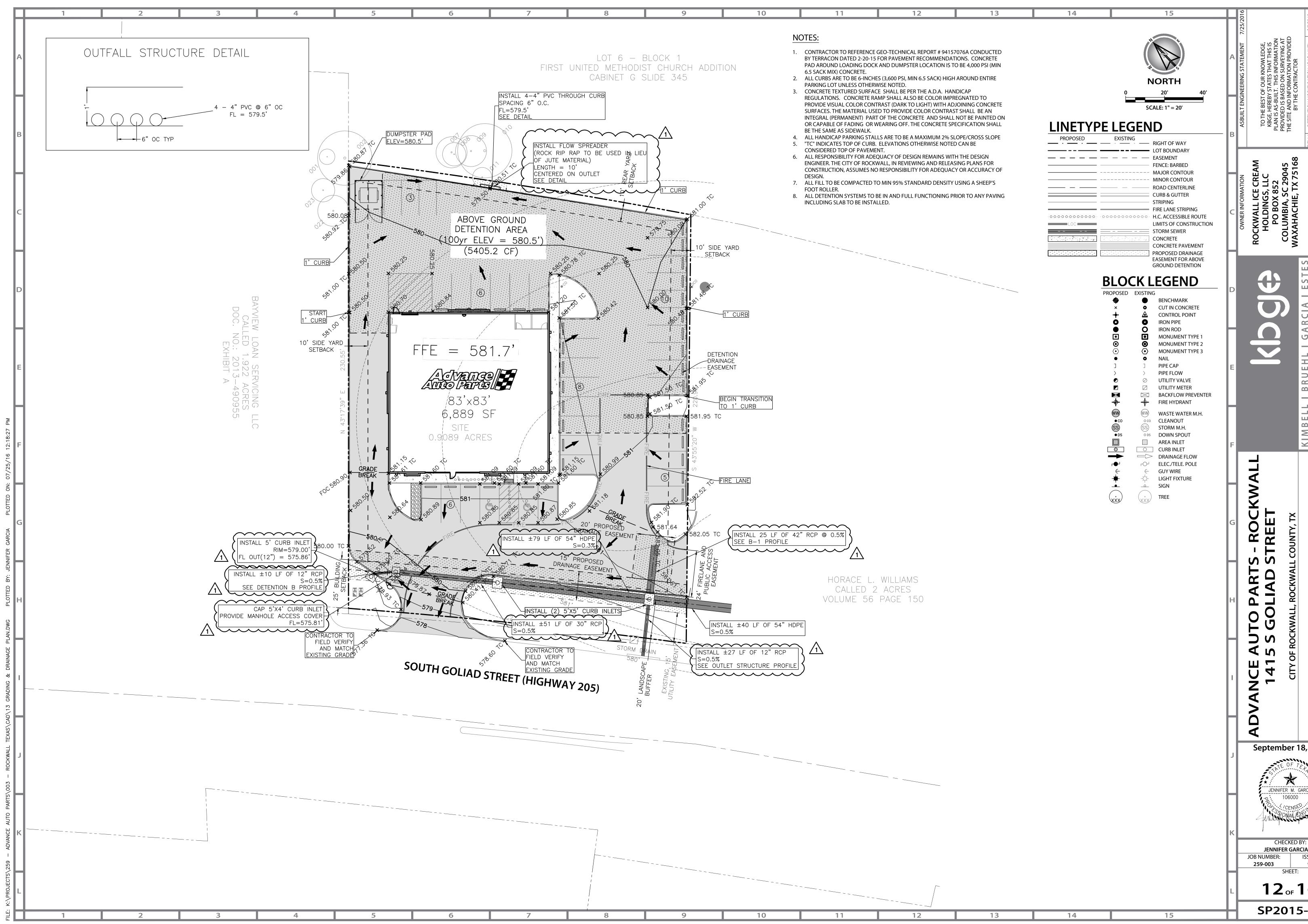
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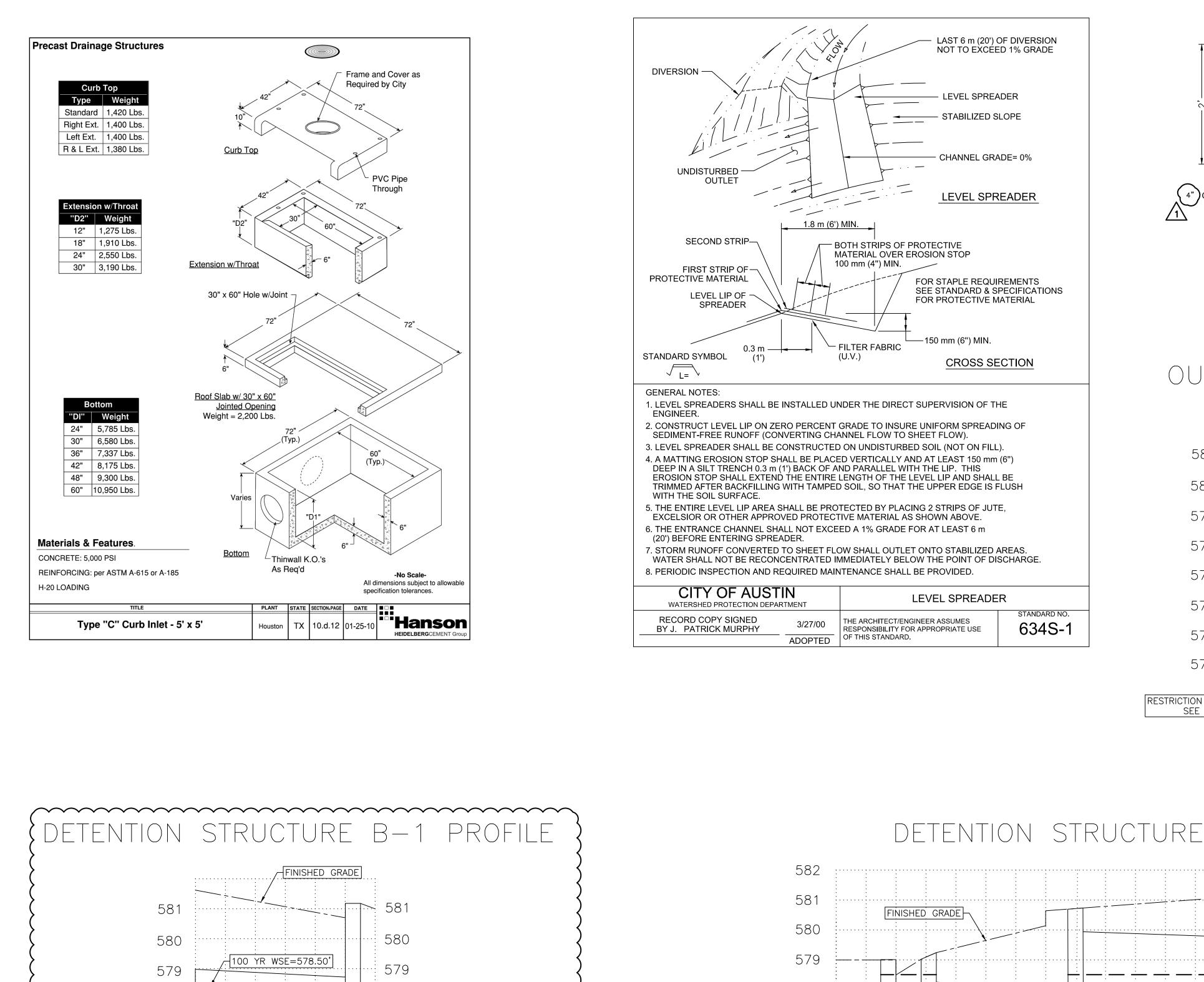


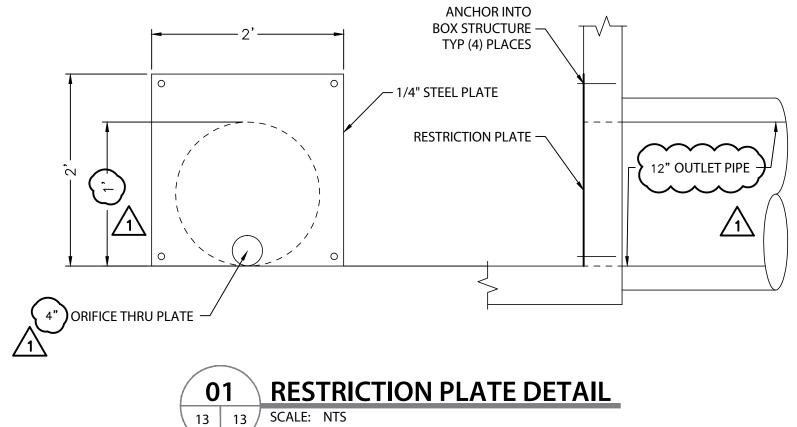
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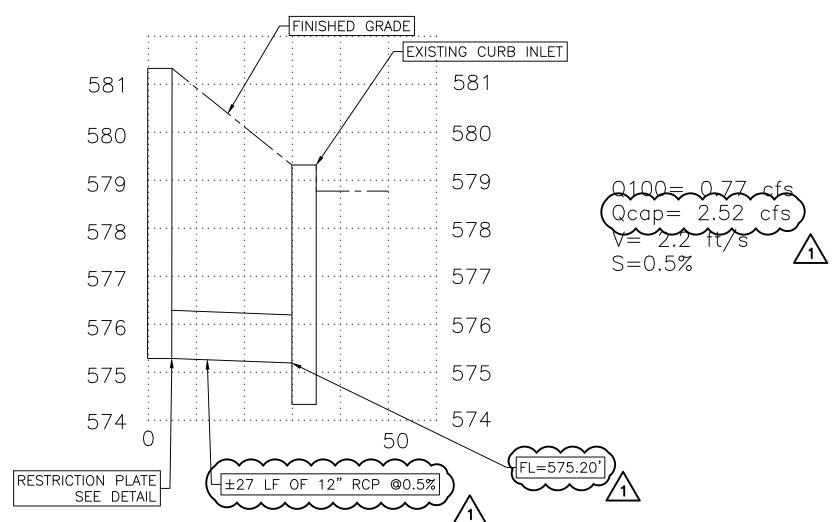
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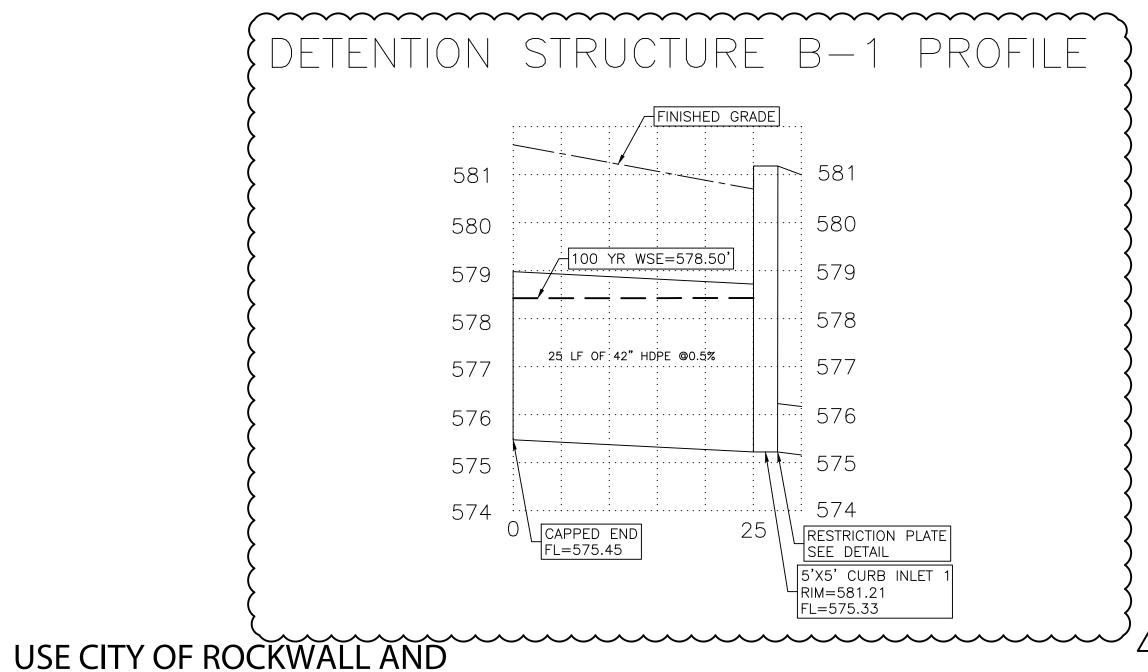
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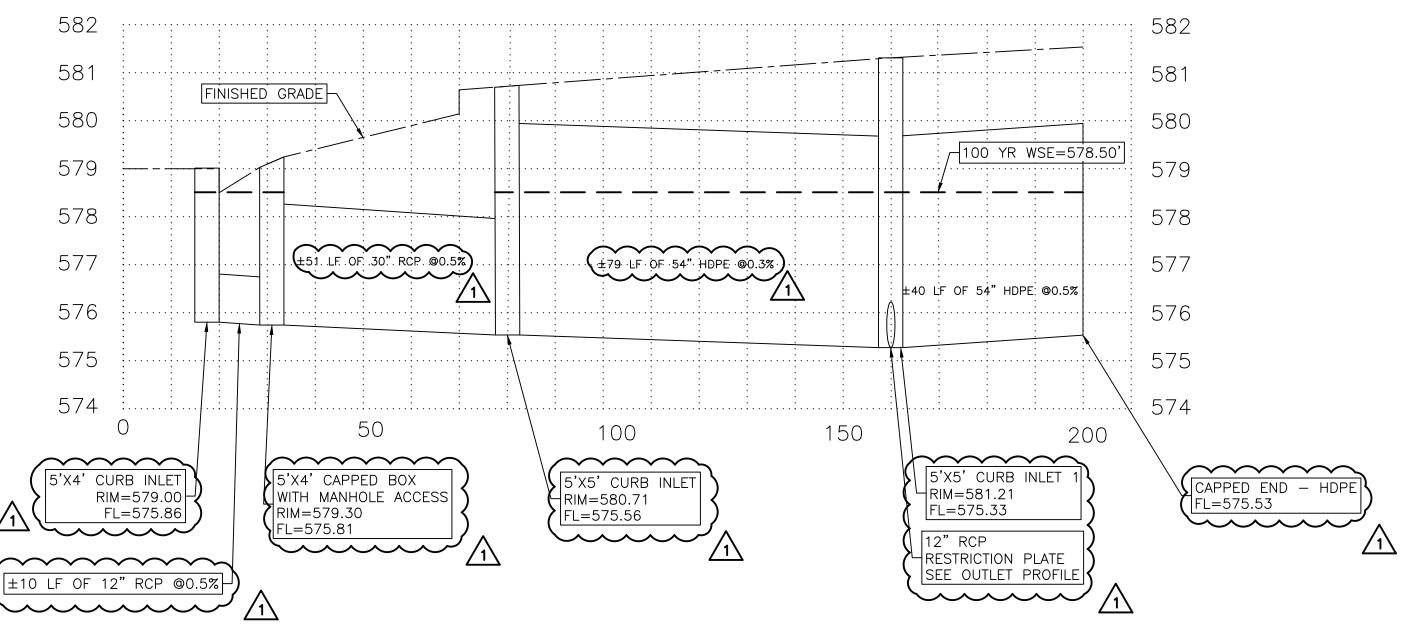
## OUTLET STRUCTURE B PROFILE





NCTCOG 3RD EDITION CONSTRUCTION STANDARDS AND DETAILS IN ADDITION TO THOSE SHOWN IN THIS SET

### DETENTION STRUCTURE B PROFILE



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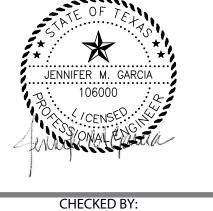
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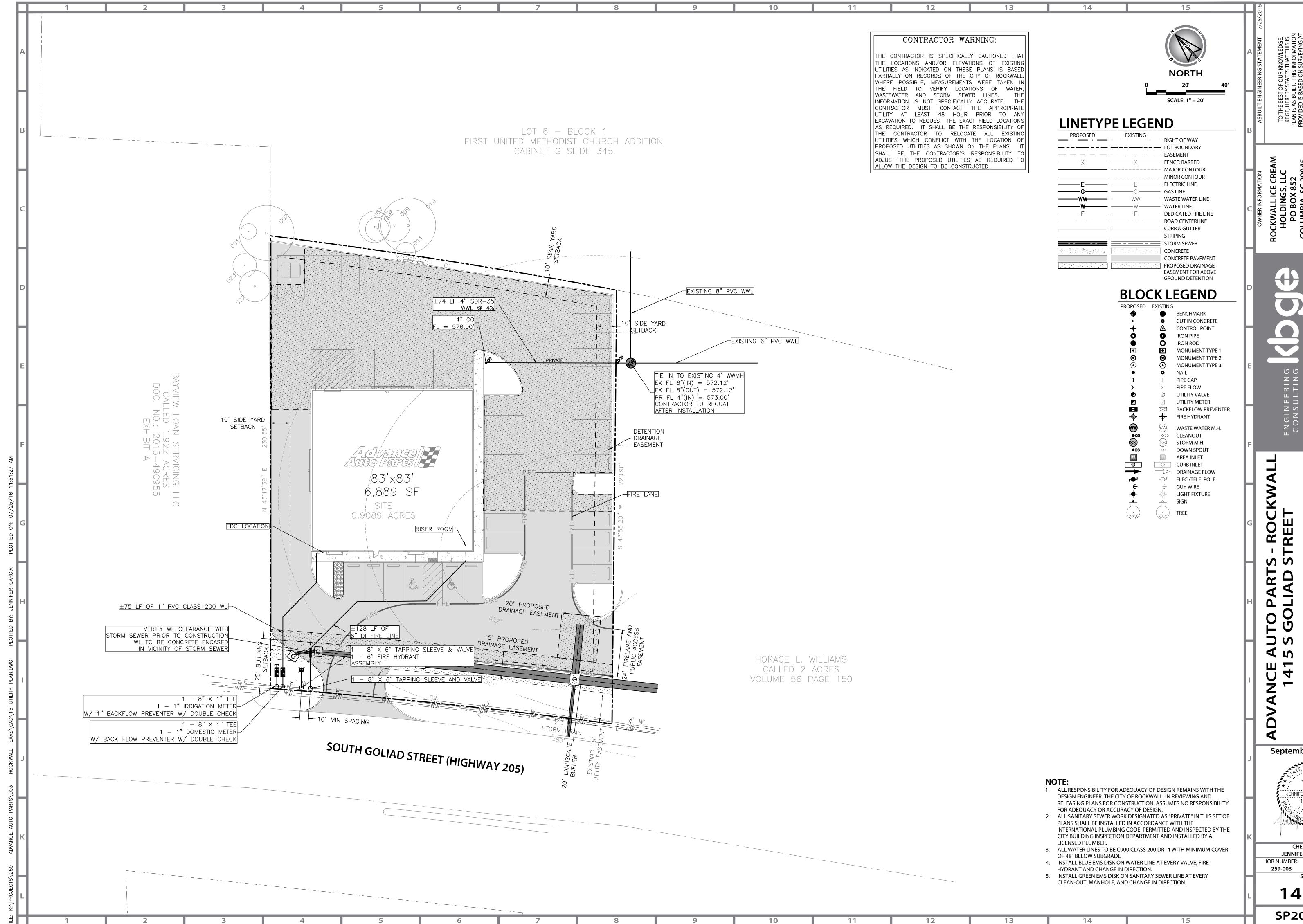
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September 18, 2015 \* JENNIFER M. GARCIA



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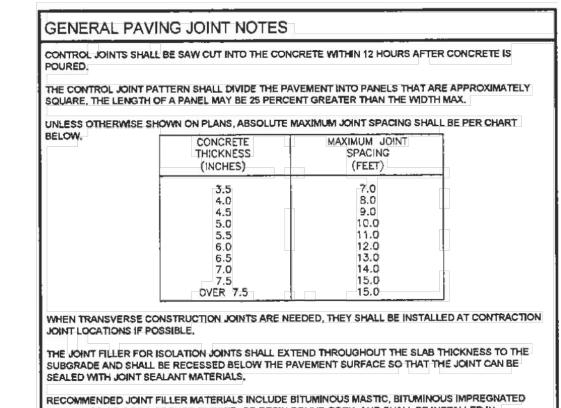
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# USE CITY OF ROCKWALL AND NCTCOG 3RD EDITION CONSTRUCTION STANDARDS AND DETAILS



CELLULOSE OR CORK, SPONGE RUBBER, OR RESIN-BOUND CORK, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.

JOINT 25' O.C., MAX. EJ = EXPANSION JOINT SJ = SAWED JOINT 1/2" RADIUS TOOLED JOINT OR NOTE: PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS SECTION A-A (95% STD, PROCTOR) THIS HALF OF DOWEL T L 1/2" EXPANSION JOINT FILLER, (PER CODE) SIDEWALK NOTE:

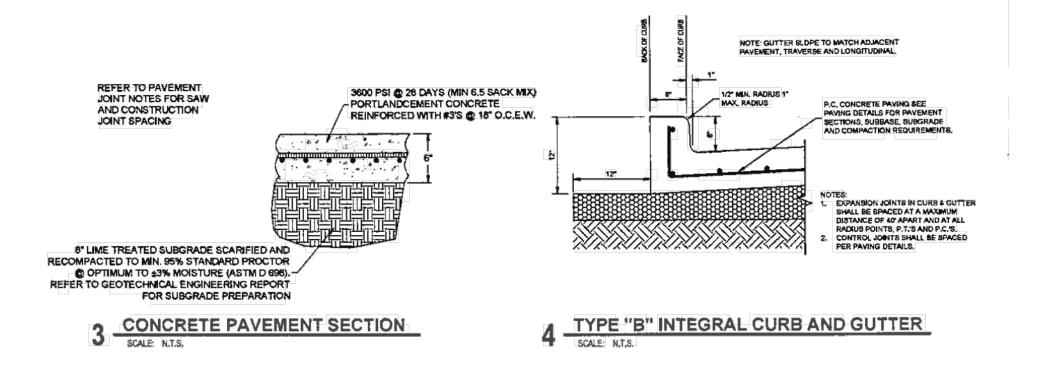
1. SAND CUSHION WILL NOT BE PERMITTED UNDER SIDEWALKS OR OTHER PAVEMENT.

2. DOWEL WITH #M BARS AT 18" C-C WHEN CONNECTING TO EXISTING SIDEWALKS, DRIVEWAYS, CURBS AND GUTTERS.

3. INSTALL 1/2"D x 18" SMOOTH DOWELS \$\infty\$ 18" C-C (GREASE ONE END) THOUGH EXPANSION JOINTS.

4. CONCRETE FOR SIDEWALKS SHALL BE MINIMUM 4" THICK AND 3,600 PSI \$\infty\$ 28 DAYS MIN, 8,5 SACK.

5. LARGE AREAS OF CONCRETE FLATWORK (PLAZA AREAS OR PAVEMENT BETWEEN BULLDINGS) SHALL BE TREATED DIFFERENTLY. ADDITIONAL SCORE JOINTS SHALL BE REQUIRED AND ALL JOINTS MUST BE SEALED WITH POLYURETHANE JOINT SEALANT PER DETAIL CONTRACTOR SHALL SUBMIT FULL SIZE SCALEABLE PLAZA AREAS JOINT LAYOUT FOR APPROVAL. SEALANT OF SIDEWALKS IN GRASS AREAS IS NOT REQUIRED.



September 18, 2015 \* JENNIFER M. GARCIA

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- Contractor shall be responsible for visiting and investigating the site prior to submitting a
- Contractor shall provide all labor and materials to complete the work shown on the plans
- Contractor shall be responsible for fine grading the site. Notify owner and/or representative for review and approval prior to commencing any landscape work. Sodded areas shall be raked smooth, clear of stones over 1" in diameter, and fine graded to blend with natural grade. All areas shall achieve positive drainage to avoid ponding.
- Contractor shall be responsible for erosion control of sloped areas within limits of work.
- Contractor shall be responsible for laying out beds and lawn area as per planting plans. Layout shall be by placing flags, stakes, or painting the ground. Notify owner and/or representative for review and approval of these areas prior to construction.
- Quantities provided in the plant list are for general use only. Contractor is responsible for verification of all plant quantities.
- All proposed landscaping is to be installed as per local city ordinances and codes. Notify owner's representative of any discrepancies prior to construction.
- All plant material and containers shall comply with The American Association of Nurserymen Standards...
- Plants are subject to inspection and approval by the landscape architect. It is recommended that the contractor present the owner's representative with photographs of all material for approval prior to delivery.
- Contractor to provide a sample of each type of plant to be used for "minimum quality specimen" standards. The remaining plantings installed on the site shall be compared to these specimen standards. Plants not meeting the standards will be rejected.
- Planting mix to be "Garden-Ville Compost" (800-375-8375).
- Unless noted, shrubs and trees shall be pocket planted. Excavate planting hole 1-1/2 times the width and height of the root ball. Backfill with 1/3 planting mix, 1/3 native soil, and 1/3 sandy loam.
- All shade trees shall be staked with 3 T-posts with cable guy wires. Trees planted adjacent to accessible routes and accessible areas shall not have limbs below 80" above finish grade.
- All steel edging shall be COL-MET 1/8" x 4" commercial steel edging (800-829-8225).
- Unless noted, all top dressing mulch shall be 2" deep shredded hardwood mulch from Living Earth Technology (972-869-4332).
- Should the contractor be considering substitutions, notify the owner's representative AND the landscape architect prior to bidding. If no substitutions are requested, **none will be** considered at a later date. Do not plant alternate species! They will be rejected.
- Specifications will be strictly enforced! Container sizes, staking, plant size or condition, and quantity of trunks or canes must be as specified.
- Contractor is responsible for quality of workmanship, superintendence, scheduling of work, and coordination with other trades.
- Contractor is responsible for job safety conditions; and the removal of all trash within the

 Contractor to provide one-year warranty on all plant material. Warranty shall cover plants which have died, but shall not include damage by vandalism, theft, natural phenomenon or

negligence by owner. • Contractor to provide an alternate estimated price (and a detailed scope of work) for a one-year maintenance of the site.

1. Contractor shall be responsible for completing all required landscaping and irrigation for the entire site, to include but not limited to: sodded areas, shrub beds, parking lot islands, roadside sign base(s) and monument planters.

2. Contractor shall comply with all applicable codes and ordinances regarding landscaping.

3. Irrigation contractor shall be experienced in irrigation design and installation and shall provide proof of certification as a "certified irrigation contractor" according to the irrigation association of america. contractor shall provide an irrigation system installation with 100% coverage of designated planting areas using head to head coverage, minimizing possible overthrow onto non-porous surfaces. irrigation system shall be zoned and timed as appropriate to meet plant material and lawn area watering requirements. timer/control to be located inside building near electrical panel.

4. It is the responsibility of the contractor to establish a healthy stand of grass on all seeded areas.

5. In the event that planting beds and mulch are required, the contractor shall install black fabric weed block landscape mesh under the mulch to prevent weed growth.

6. Contractor shall provide natural topsoil that is fertile, friable, without mixture of subsoil materials, and obtained from a well drained, available site. it shall not contain substances which may be harmful to plant growth. topsoil shall be screened and free from clay, lumps, stones, roots, plants, or similar substances 1" or more in diameter, debris, or other objects which might be a hindrance to planting operations. topsoil shall contain at least 4-6% organic matter by weight and have a ph range of 5.5 to 7.0 or as applicable to the region.

7. Contractor shall be responsible for the watering and the maintenance of all landscaped areas until the later of; (a) thirty (30) days following the planting of the grass and shrubs, or (b) the date that advance auto parts opens for business to the public. contractor to warranty all landscaping for a total of 1 year.

8. General contractor is to clean entire site of all construction debris and rake all grass areas. grass (sod) to be level, rolled and mowable.

9. Provide landscape plans to advance auto parts and as required by local jurisdiction to the bldg. dept. for review and approval prior to start of work.

10. All landscaping, tress, shrubs, etc. shall not interfere with the visibility of aap monument

11. Contractor to verify quantities prior to commencing work.

12. All planting areas within property boundary are to be watered with a full automatic underground sprinkle system with freeze guard. all irrigation components shall be contained within the boundary of the site. irrigation to planting areas outside of the property boundary shall originate from irrigation heads within the property boundary. contractor shall retain the services of a licensed irrigator who shall provide detailed irrigation drawings with supporting pressure loss and flow calculations, these shall be submitted to landscape architect as shop drawings for review and approval prior to commencing work.

13. Open areas within planting beds shall be mulched with hardwood only. pine straw or equivalent is not an acceptable mulch.

			s: All similar species	OPY TREES of trees shall be matche materials shall be specin	
Provided 35,592_sf.	SYMBOL	QUANTITY	COMMON NAME	SCIENTIFIC NAME	SIZE \$ CONDITION
5,570 sf. (16 %) Provided	(+)	5	Cedar Elm	Ulmus crassifolia	3" caliper, 12' Ht.
	+	5	Live Oak	Quercus virginiana	3" caliper, 12' Ht.
5 trees					

ORNAMENTAL TREES  Notes: Species and trunk/cane specifications on all ornamental trees will be strictly enforced!  Do not plant alternate species or alternate specification without prior approval from the landscape architect.								
5YMB0L	QUANTITY	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION				
$\otimes$	n	Red Bud, Texas	Cercis canadensis var. texana	6' Ht./ 4' spread, 2 1/2" caliper, B&B o container.				
	4	Holly, Yaupon	llex vomitoria	6' Ht./ 4' spread, 2 1/2" caliper, B&B o container.				
		SYMBOL QUANTITY  3	SYMBOL QUANTITY COMMON NAME  3 Red Bud, Texas	SYMBOL QUANTITY COMMON NAME  SCIENTIFIC NAME  Red Bud, Texas  Cercis canadensis var. texana				

			SHRUBS	
QUANTITY	SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
23	RK	Rose, 'Red Knockout'	Rosa spp. 'Radrazz'	3 gallon, 20" Ht./20" spread
21	(F)	Fringe Flower, Petite Delight	Loropetalum chinense 'Petite Delight'	5 gallon, 12" Ht./12" spread
68	(AZ)	Aztec Grass	Liriope muscari 'Aztec'	I gallon 12" Ht./10" spread
16	<b>∀</b> H	Holly, Dwf. Yaupon	llex vomitoria 'Nana'	5 gallon, 12" Ht./18" spread

		G	ROUNDCO	VERS / PER	ENNIALS
QUANTITY	SYMBOL	CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
110		Asid	an Jasmine	Trachelospermum asiaticum	4" pots

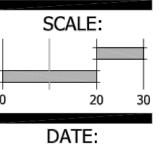
QUANTITY CALLOUT COMMON NAME SCIENTIFIC NAME SIZE AND CONDITION  3,250 S.F. HYDRO Common Germuda Grass Cynodon dactylon Hydromulch - refer to specifications			Tl	IRF GRASS	
1 3250   SE HYDRO   Cunadan dactulan   Hudramulch = refer to specifications	QUANTITY	CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
2011110001 01000	3,250	S.F. HYDRO	Common Bermuda Grass	Cynodon dactylon	Hydromulch - refer to specifications

		MISCELLANEOUS	
QUANTITY	CALLOUT	DESCRIPTION	
160	L.F. EDGE	L.F. Steel edge $1/8" \times 4"$ with $12"$ stakes, green in color	
520		SF 2" bed preparation as per specifications	
1,400		SF 3" hardwood mulch as per specifications	
340	S.F. D.G.	SF 3" decomposed aranite	

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NOTES
1. Quantities shown are for contractor's convenience only. Contractor is responsible for verification of all quantities.

2. Contractor to provide separate line item for a one(I) year maintenance package - see maintenance specifications.



04/16/15

PROJECT # 030-03

SP215-012 L:\030\03\City Submittal\L0.01 dwg modified by Orlando on Sep 18, 2015 - 4:29pm

LANDSCAPE CALCULATIONS

Required

N\A

Required

<u>5 trees</u>

7 trees

Required

50% \_\_\_\_7"\_\_

50% \_\_\_\_7"\_\_\_

100% \_\_\_5"\_\_

50% <u>8"</u>

100% \_\_\_5"\_\_\_

PRICKLY ASH AKA TICKLE TOUNGE

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HACK BERRY

DOUBLE HACK BERRY

\_32"\_\_\_

<u>1,287</u> sf.

39/10 = 4 trees

<u>5,339</u>sf.

7 trees

Provided

5 trees

\_\_+ 35"\_

25,757 sf

1,290 st

LANDSCAPE AREA

Landscape Area (15%)

 $|75 LF/|00 = |.75 \times 3 =$ 

 $175 LF/100 = 1.75 \times 4 =$ 

PARKING LANDSCAPING

Landscape area (5%)

REQUIRED MITIGATION

(012) 14" Hackberri

(014) 14" Hackberry

(019) 16" Hackberry

TREE# SIZE TYPE

14

10

(018) 5" Ash

(021) 5" Ash

TREE LIST

003

004

009

010

011

014

015

016

017

018

020

022

023

\*(R) = REMOVE

PA = Prickly Ash aka Tickle Tounge

(R) 019

(R) 021

(R) 012 013

(R) 005

Total

Required Trees (I per 10 spaces)

Total Site Area

BUFFER TREES

Canopy Trees

<u>Accent Trees</u>

Parking area