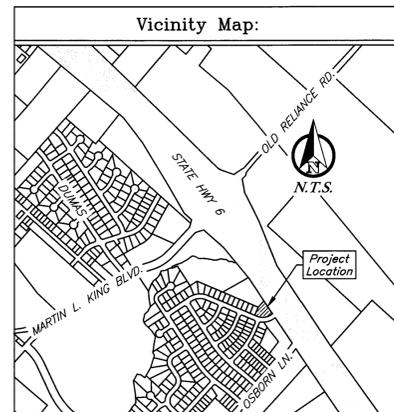


Canyon Creek Site Plan

Lot 1, Block 2, Canyon Creek
Bryan, Brazos County, Texas



VICINITY PLAN
N.T.S.

OWNER/DEVELOPER:

GAZW Holdings, LLC

PO Box 5192
Bryan, TX 77805

ENGINEER:



Firm # 9951
PO Box 5192
Bryan, Texas 77805
979-739-0567

Sheet List Table	
Sheet Number	Sheet Title
C1	Notes
C2	Site Plan
C3	Pavement Plan
C4	Grading Plan
L1	Landscape Plan



**Preliminary Plans Only
Not for Construction**

This document is released for the purpose of interim review under the authority of Glenn Jones, P.E. 97600 on 27 May, 2015. It is not to be used for construction, bidding, or permitting purposes.

Released for Review

May 2013

General Notes:

- The contractor shall promptly notify the engineer of any discrepancies between these plans and other drawings of differing disciplines & specifications.
- The contractor is specifically cautioned that the location and/or elevation of the existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. It is the contractor's responsibility to avoid all existing utilities and repair any damaged lines, at his own expense, whether the utility is shown on these plans or not. The contractor shall notify the appropriate utility company 48 hours prior to any excavation. The contractor shall also notify the engineer if design changes need to be made in the field.
- Contractor to verify all underground utilities in the field prior to construction.
- It is the responsibility of the contractor to comply with all state and federal regulations regarding construction activities near energized overhead power lines.
- The contractor shall be responsible for the protection of all existing utilities or service lines that are crossed or exposed during construction operations. Where existing utilities or service lines are cut, broken, or damaged, the contractor shall repair or replace the utilities or service line with the same type of material and construction or better. This material and work shall be at the contractor's own expense.
- During the execution of the work, the contractor shall maintain the project site in an orderly and acceptable manner as far as practical. The contractor shall clean and remove from the project area all surplus and discarded materials, temporary structures, and debris of any kind and shall leave the project site in a neat and orderly condition. All clean up will be done to the satisfaction of the engineer.
- Contractor is responsible for OSHA established trench safety as described in the federal register 29 CFR Part 1926, a trench safety plan should be prepared and a "competent person" appointed prior to any and all excavating operations exceeding 5' depth. The plan is to be prepared and sealed by a registered Texas professional engineer and shall be submitted to the city of Bryan and consulting engineer prior to any excavation on the project.
- A copy of the approved construction plans shall be kept on site at all times throughout the entire construction of the project. Contractor shall maintain a set of redline drawings, recording as-built conditions during construction. These redline marked up drawings will be submitted to the design consultant who will make the changes on the original tracings, labeling each sheet in the set as "record drawings".
- The contractor shall be responsible for safeguarding and protections all material and equipment stored on the jobsite. The contractor shall be responsible for the storage of materials in a safe and workmanlike manner to prevent injuries, during and after working hours, until project completion.
- Contractor to store materials at location(s) approved by & coordinated with the owner. Equipment is to be stored overnight at locations so as not to block streets or drives. Materials are to be protected from damage by the elements.
- Contractor shall saw cut remove and replace concrete pavement, and curb & gutter as required to construct proposed improvements.
- It shall be the responsibility of the contractor to pay for and obtain all required permits and inspection approvals for all work shown.
- Any adjacent property and right-of-way disturbed during construction will be returned to their existing condition or better. The contractor agrees to repair any damage to the public right-of-way in accordance with the standards of the applicable regulatory agency.
- All exposed dirt surfaces shall be seeded, hydro-mulched, or sodded.
- The contractor shall not create a dirt nuisance or safety hazard in any street or driveway. The pavement be cleaned daily.
- Adequate drainage shall be maintained at all times during construction and any drainage ditch or structure disturbed during construction shall be restored to existing conditions or better.
- The contractor shall coordinate all fence removal and replacement with the Owner.
- The contractor shall protect all monuments, iron pins, and property corners during construction.
- The contractor must provide construction staking from the information provided on the plans.

General Utility Note (Private & Public):

- All excavation for underground utilities shall be made true to grade. Excavation shall be made a minimum of six inches below the required grade and provide a sand bed for the piping. Backfill over piping shall be made with earth or fill sand, free of debris, and shall be tamped by hand or mechanical means to the density of the adjacent undisturbed earth or to 95% standard proctor density (ASTM D698), whichever ever is greater. All trenching and excavation shall be done in strict accordance with current OSHA requirements and all other applicable safety codes and standards.
- Minimum bury or cover specified is to be measured from finish grades. Where utility line extend under pavement, the bury or cover shall be measured from the bottom of the structure.
- Utility installations in non-structural areas shall be bedded and initial backfill consistent with non-structural requirements. In structural areas (i.e. under foundations, pavement, walks, etc.) the utility shall be bedded and initial backfill with cement stabilized sand. Final backfill in these areas shall be compacted by mechanical tamping to structural compaction requirements.
- Regardless of elevations shown for manhole rims, clean-out covers, or grates, these items shall be placed flush with the pavement elevations and slopes. Manholes and clean-outs not in pavement areas shall be set 3 inches above the finish grade.
- Contractor shall uncover existing utilities at all "points of interest" to determine if conflicts exist before commencing and construction. Notify the engineer at once of any conflict.
- The contractor shall coordinate all utility installation so that grade critical elements (i.e. storm drain, sanitary sewer, etc.) do not conflict with non-grade critical elements (i.e. electrical conduit, water services, etc.).
- The contractor shall furnish all materials, equipment, and labor for excavation, boring, installation, and backfilling of utility lines and relates appurtenances, as shown on the plans.
- The loading and unloading of all pipe and other accessories shall be in accordance with the manufacturer's recommended practices and shall, at all times, be performed with care to avoid any damage to the material. The contractor shall locate and provide the necessary storage areas for materials and equipment.
- Contractor shall be responsible for coordinating all connections to public systems and installations with regulatory inspector.
- This project shall be built by means of open cut except as noted on the drawings. Contractor to determine the locations of bore pits in the field subject to the inspector's approval.
- Structural backfill will be required for all excavation within 5 feet of public roadway pavements or walks.

Private Utility Notes:

- The contractor shall install the proposed private utility lines in accordance with local codes, latest national plumbing code, and all applicable state and local laws. Other private or public utilities shall be installed in accordance with the utility company's specifications. Should these drawings or specifications differ with other utility company's specifications, the stricter of the two shall apply.
- It shall be the responsibility of the contractor to pay for and obtain all required permits and inspection approvals for all work shown.
- The contractor shall coordinate all installations of service lines, conduits, meters, etc., with the appropriate utility company.

Water Line Notes (Public & Private):

- All domestic water line pipe shall be constructed out of PVC (Sch 40). Public or fire water line pipe shall be constructed out of C900 and public services shall be copper.

Storm Sewer Notes (Private):

- All 15 inch to 42 inch storm sewer pipe, shall be constructed out of reinforced concrete pipe (RCP), C443 ASTM C76, Class III except as noted.
- All 6 inch to 12 inch storm sewer pipe, except as noted, shall be HDPE SDR-35, ASTM D-3034, PVC pipe may be used in place of HDPE pipe.
- Contractor shall provide a minimum of 12 inch clearance at storm sewer and water line crossings and a minimum of 6 inch clearance at storm sewer and sanitary sewer crossings.
- Unless otherwise specified, the contractor shall install all storm sewer pipe in accordance with the trench detail contained in these construction drawings.

Demolition & Construction Notes:

- Demolition of existing structures and improvements shall include all work contained on these plans, but shall not be limited to the items specially identified. Any materials to be demolished or cleared shall be completely removed and disposed of. This work will not only consist of above ground items, but underground elements as well, including but not limited to: tree roots, foundation systems, old pipes, etc. The contractor shall notify the engineer of any additional items that require demolition, not identified on these plans, prior to removal.
- It shall be the responsibility of the contractor to stage and sequence all demolition work with utility companies to provide minimal interruption and inconvenience of utility services.
- Demolished surplus material shall be legally disposed of off-site.
- All pavement edges, bounding the construction area & matching with new construction, shall be neatly saw cut, unless gravel. Flexible pavement shall be saw cut a minimum of 24" beyond any proposed structures.
- The contractor shall clear all right-of-ways and easements contained in these construction drawings.
- The contractor shall field verify and locate all existing utilities on site prior to demolition.
- The contractor shall perform demolition activities as noted and shown on these plans and as directed by the owner/ developer.
- It shall be the responsibility of the contractor to obtain any permits and pay any fees required for demolition and disposal from the appropriate authorities.
- The contractor shall install all erosion and sediment control devices prior to commencing demolition work.
- The contractor is responsible for the protection of all utilities that are to remain in place.
- The contractor shall take all precautions to avoid damage to any existing road surface.
- All existing items that are to remain in place which are damaged during construction shall be restored to original condition, or better, at the sole expense of the contractor.
- Should any existing utilities not shown or shown incorrectly on this plan be found on site, the contractor shall contact the engineer immediately to discuss any possible conflicts before proceeding with any work in that area.
- An asbestos survey must be performed prior to the demolishing of any structures. The contractor shall adhere to the requirements set forth in the asbestos survey and report.

Dimensional Control Notes:

- The contractor may obtain an electronic copy of these plans for construction purposes. The electronic file and information generated, by J4 Engineering (J4E), for this project is considered by J4E to be confidential. When issued, it's use is intended solely for the individual or entity to which it is addressed. The material is intended for use by the recipient named, only, and permission is not granted to the recipient for distribution of these documents in any form or fashion. The recipient understands that this data is authorized "as is" without any warranty as to it performance, accuracy, freedom from error, or as to any results generated throughout its use. The recipient also understands and agrees that J4E, upon release of such data, is no longer responsible for their use or modification. The user and recipient of the electronic data accepts full responsibility and liability for any consequences arising out of their use.
- All dimensions shown are to be used in conjunction with these plans for locating all improvements and shall be field verified by the contractor for workability prior to construction of improvements.
- Unless otherwise shown, all dimensioning is to the back of curb or edge of pavement, which ever is applicable.

Grading Notes:

- All unpaved areas shall be adequately graded to drain at a minimum of 1.00% slope, unless otherwise noted, so that no ponding occurs.
- Unless otherwise specified, unpaved areas shall drain away from buildings so that the perimeter curb is a minimum 6" lower than the finished floor.
- Finish grade adjacent to curbing or sidewalk shall be 1/4" below the top of concrete and 2" below in landscaping areas.
- When top of curb elevations are shown, the curb height is 6" unless otherwise specified.
- The contractor shall follow the general intent of the grading plans. Minor adjustments to the actual elevations shown on the grading plan may be required to match existing ground elevations and structures.
- Adequate drainage shall be maintained at all times during construction and any drainage ditch or structure disturbed during construction shall be restored to existing conditions or better.
- The approval of these plans is not an authorization to grade adjacent properties. When field conditions warrant off-site grading, permission must be obtained from the affected property owner(s). Any adjacent property and right-of-way disturbed during construction will be returned to there existing conditions or better.

Erosion Control Notes:

- Erosion control measures shown in these plans shall be considered the very minimum required. It shall be the responsibility of the contractor to implement all other erosion control measures (diversion berms, drainage structures, swales, additional fencing, etc...) necessary to keep the existing improvements and developments from damage of any kind, during all phases of demolition and construction.
- The site operator, or his representative established by a letter of delegation, shall make a visual inspection of all siltation controls and newly stabilized areas on a daily basis; especially after a rainfall to insure that all controls are maintained and properly functioning. Any damaged controls shall be repaired or replaced prior to the end of the work day, including re-seeding and mulching or re-sodding, if necessary.
- All sediment trapping devices shall be installed as soon as practical after the area has been disturbed. All sediment trapping devices shall be cleaned when sediment level reaches 25% capacity. Sediment shall be disposed of by spreading on site or hauling away if not suitable for fill.
- During construction, contractor shall maintain best management practice (bmp). Sediment fence, hay bale barriers, or other devices shall control all storm water leaving the site.
- The contractor shall be responsible for establishing temporary erosion control measures as required for different phases of construction. Erosion control measures shown may need to be adjusted to handle increased or concentrated flows created by various stages of construction.
- Phase II erosion control measure measures shall be implemented immediately after construction of their associated improvements. Inlet protection barriers shall be constructed with hay bales or silt fencing. Inlets located in pavements areas shall be protected with sand bags, replacing the hay bales or silt fencing once the pavement is in place. Erosion control measures shall be kept in place until upstream drainage areas are fully stabilized.
- The contractor is responsible for removing sediment control devices after the site has been seeded and/ or sodded, and ground cover has taken root.
- The contractor shall take all necessary measures to ensure that all disturbed areas are stabilized. Designated areas shall be block sodded and all other areas disturbed due to construction shall be hydro-mulched seeded. These stabilized areas shall be sodded or seeded, fertilized, and watered to establish a solid ground cover within 30 days of completion or if activities cease for 14 days.
- When hydro-mulching is required, contractor shall keep mulch moist after installation and until area shows growth.
- Erosion control measures shall be implemented prior to any excavation or demolition work.

Sidewalk Construction

- Sidewalks shall be doweled into and tie to any concrete structure adjacent to sidewalk (driveway, inlet box, curb) #4 x 12" bars @ 18" O.C.
- ADA ramps shall be constructed per the ambulatory ramp details on the pavement plan shown in these plans. All ramps shall have a detectable warning surface for the full length of the ramp.

Paving Notes:

- The pavement system shown was designed without the aid of a geotechnical investigation. Due to the plastic soils within this area, some differential movement may still occur due to seasonal soil moisture variations.
- Sub-grade**
 - Existing trees, stumps, and large tree systems, shall be grubbed and removed. Vegetation shall be removed and the top 6 inches of top soil and sub-grade stripped from the areas to be covered by the proposed improvements.
 - Paving areas shall be proof-rolled with a 20 ton roller and, if required at the time of construction, the contractor shall stabilize weak areas by over excavation and backfilling.
 - Materials excavated on site, excluding the top 6 inches, may be used as fill material, under pavement areas only, if the material is free from trash, lumps, clods, organic substance, & other foreign matter.
 - Fill material shall be placed in eight inch maximum loose lifts, with each lift wetted or dried to a moisture content range of 0% to +3% of the optimum moisture content and compacted to a uniform density of 95% of the maximum dry density as determined by ASTM D698.
 - Compaction test, for fill, shall be verified by in-place density test for each lift. One in-place density test shall be performed for every 4,000 SF with a minimum of 3 tests being performed, per lift.

Portland Cement Concrete

- All concrete, unless otherwise specified, shall have a minimum compressive strength of 3,500 psi at 28 days for pavement and 3,000 psi at 28days for non-pavement applications (i.e. sidewalks, drainage flumes, and containment structures).
- All concrete shall be vibrated when placed and not raked a distance greater than 10 feet.
- Unless otherwise noted, joint spacing shall not exceed 15 feet in any direction to another joint or edge of pavement. Control joints shall be cut between 4 and 18 hours after placement of concrete and may be substituted with construction joints. If provided, the contractor shall follow the general intent of the joint plans shown.
- Expansion joints shall not exceed a maximum spacing of 45 feet and should not be placed through the middle of area inlets or junction boxes located in the pavement. All area inlets or junction boxes, located in pavement area, shall be installed with isolation joints between the structure and the pavement.
- All joints shall be sealed with Sonoborn Sonolastic SL-1, or an approved equal.
- Concrete shall not be placed if the air temperature is 50° F and falling or 95° F or higher. Concrete may be placed if the air temperature is 40° F and rising or less than 95° F.

Steel

- All reinforcing steel shall be deformed billed steel bar having a minimum yield strength of not less than 60 KSI conforming to ASTM A615, Grade 60.
- All reinforcing steel shall be free from rust or other bond reducing agents.
- All splices in pavement and curbing steel shall be staggered and lapped 30 inches times the bar diameter or 12 inches, whichever is greater.
- Concrete coverage for the reinforcing steel shall comply with the ACI code, latest edition. The steel shall have a minimum 1 1/2 inch clearance.

Traffic Control Notes:

- Contractor shall provide and install traffic control devices in conformance with part VI of the Texas Manual on Uniform Traffic Control Devices (Texas MUTCD, most recent edition with revisions) during construction.
- Lane closure will not be allowed unless approved by the TxDOT or COB representative, as applicable.
- The work shall be completed such that the roadway will be fully opened to traffic overnight. Overnight lane closures will not be permitted, unless otherwise approved by the applicable engineer.
- Plastic drums shall be used for overnight delineation of off roadway work areas.

Legend			
Line Types			
	W-8	Existing Water Line, Size Noted	
	W-8	Proposed Water Line, Size Noted	
	W	Existing Water Service	
	W	Proposed Water Service	
	S-8	Existing Sanitary Sewer Line, Size Noted	
	S-8	Proposed Sanitary Sewer Line, Size Noted	
	S	Existing Sanitary Sewer Service	
	S	Proposed Sanitary Sewer Service	
		Existing Storm Sewer Piping	
		Proposed Storm Sewer Piping	
	GAS	Existing Natural Gas Line	
	GAS	Proposed Natural Gas Line	
	UE	Existing Underground Electrical Line	
	UE	Proposed Underground Electrical Line	
	AE	Existing Aerial Electrical Line	
	AE	Proposed Aerial Electrical Line	
	T	Existing Underground Telephone	
	T	Proposed Underground Telephone	
		Existing Contour, Elevation Noted	
		Proposed Contour, Elevation Noted	
		Existing Easement	
	SILT	Silt Fence	
		Existing Chain Link Fence	
		Proposed Chain Link Fence	
	XXX	Existing Wire Fence	
		Existing Board Fence	
		Proposed Board Fence	
Symbols			
	Hydrant		Storm Grate Inlet
	Water Valve		S.E.T.
	Water Manhole		Sewer Manhole
	Water Meter		Sewer Clean-Out
	Phone Pedestal		Mail Box
	Sign		Power Pole
Abbreviations			
TP	Top of Pavement	W/	With
TC	Top of Curb	W/OUT	With Out
TG	Top of Ground	S.E.T.	Sloped End Treatment
TW	Top of Walk	BM	Bench Mark
TI	Top of Inlet	TBM	Temporary Bench Mark
TR	Top of Wall	SY	Square Yard
FL	Flow Line	LF	Linear Foot
MH	Man Hole	CO	Clean Out
Min	Minimum	O.C.	On Center
Max	Maximum	O.C.E.W.	On Center Each Way
N.T.S.	Not to Scale	PSI	Pounds per Square Inch
PI	Point of Inflection	PVC	Polyvinyl Chloride
PT	Point of Tangency	RCP	Reinforced Concrete Pipe
PC	Point of Curvature	PVMT	Pavement
Sch	Schedule	H	Horizontal
R.O.W.	Right of Way	V	Vertical

Gas Company Notes:

- At all underground gas utility crossings, the contractor shall give the appropriate utility company a minimum of 72 hours notice so that their field representative may be present.
- Eighteen (18) inch clearance shall be maintained between the proposed utility and the existing underground gas line. This clearance shall be measured from outside of pipe to outside of pipe, or sleeve, whichever is more conservative.
- For excavation near the underground gas line(s), the contractor shall cover, or remove, the bucket teeth of the excavator. The final thirty-six (36) inches surrounding the gas line shall be excavated by hand digging.

Notes

General Notes:

- It is the intent of these plans to comply with all City of Bryan guidelines, specifications & details.

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Not for Construction**

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Released for Review

No.	Revision/Issue	Date

Firm Name and Address:

J4 Engineering

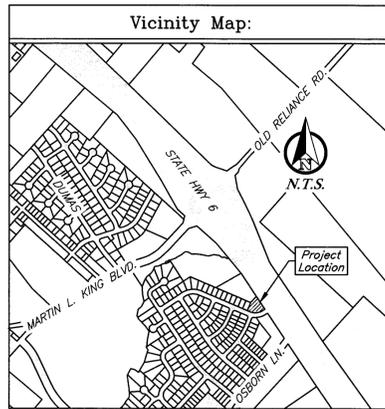
PO Box 5192 - Bryan, Texas - 77805
979-759-0567 www.J4Engineering.com
Firm# 9951

Project Name and Address:

Canyon Creek Office Building

N Earl Rudder Freeway
Lot 2, Block 1, Canyon Creek Entertainment Center
Bryan , Brazos County, Texas

Date:	May 2015	Sheet:	C1
Scale:	As Noted		



Site Specific Notes:

1. Current owner of Lot 2, Block 1 of Canyon Creek Entertainment, is Joseph Robert Holdings, LLC, 2111 Walnut Grove Ct, College Station, TX 77845.
2. Current Zoning is C3 - Commercial.
3. Current use - Vacant.
4. Proposed use and improvements: General Office Space along with; parking, utilities, & landscaping.
5. This lot is partially within the 100-YR floodplain according to the DFIRM for Brazos County, Texas and incorporated areas, Map No. 48041C0215F, effective April 2, 2014.
6. Total lot acreage is 0.62 Acres.
7. Front and side building setback lines of 25' and rear building setback line of 15' apply to this lot.
8. Developer/Tenant to submit electrical load information when requesting electrical service from BTU. Contact Line Design @ 821-5770.

Construction Notes:

1. All fill subgrade and base material shall be compacted to 95% STD in areas to be paved and 95% STD in all other areas.
2. All concrete to be constructed with 3500 psi (Min) - 28 day strength portland cement concrete.
3. All items to be removed during clearing and grubbing. Remove not only the above ground elements, but all underground elements as well. All excavated material shall become the property of the contractor unless otherwise directed by the Owner. All debris must be disposed of off site.
4. Prior to grading operations, contractor is to strip the first 6" of soil. Contractor shall proof roll the entire site and remove any unstable materials according to TxDOT Specifications. Select fill is to be used in replacing objectionable material.
5. Assure positive drainage across project site to the storm water structures.
6. Each utility contractor is responsible for positioning and trenching of service lines. Mark all lines with utility type. Utility contractors are responsible for coordinating with paving contractor in placement and installation of any necessary utility conduit prior to subgrade preparation. Lines requiring slope control are to be installed first. All other lines not requiring slope control or elevation shall be installed deepest first. Each contractor is responsible for knowing final determination of installation order.
7. Materials and methods for pavement markings shall conform to TxDOT Standard Specifications for Construction of Highways, Streets, and Bridges (current edition), with the following exceptions: 1) Type II marking materials need not be purchased from the Department, and 2) Glass beads may be omitted, but marking material shall be Type II paint-type material.

Parking Analysis:

Proposed Improvements:
 4,200 SF Building
 New Required Parking:
 14....1 Space per 300 SF Building Area
 14....Total Required
 New Provided Parking:
 17....Straight in Parking
 1....ADA Parking w/Van Accessible
 18....Total Provided

Fire Lane Striping:

All curbs and curb ends designated as fire lanes on plans shall be painted red with 4" white lettering stating "FIRE LANE-NO PARKING-TOW AWAY ZONE". Wording may not be spaced more than 15' apart.

■ FIRE LANE ■ NO PARKING ■ TOW AWAY ZONE ■

Legend:

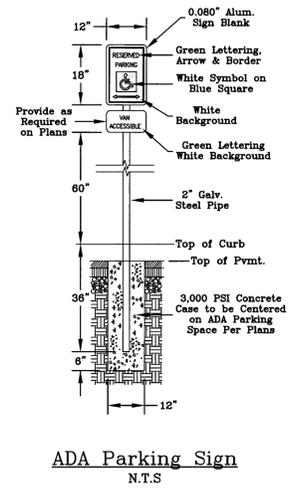
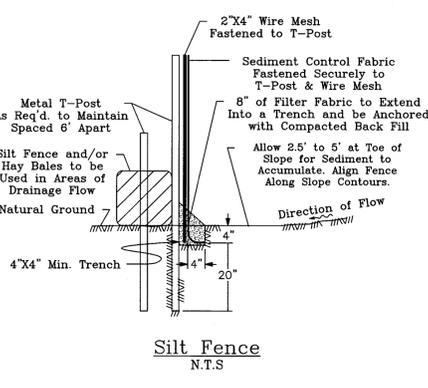
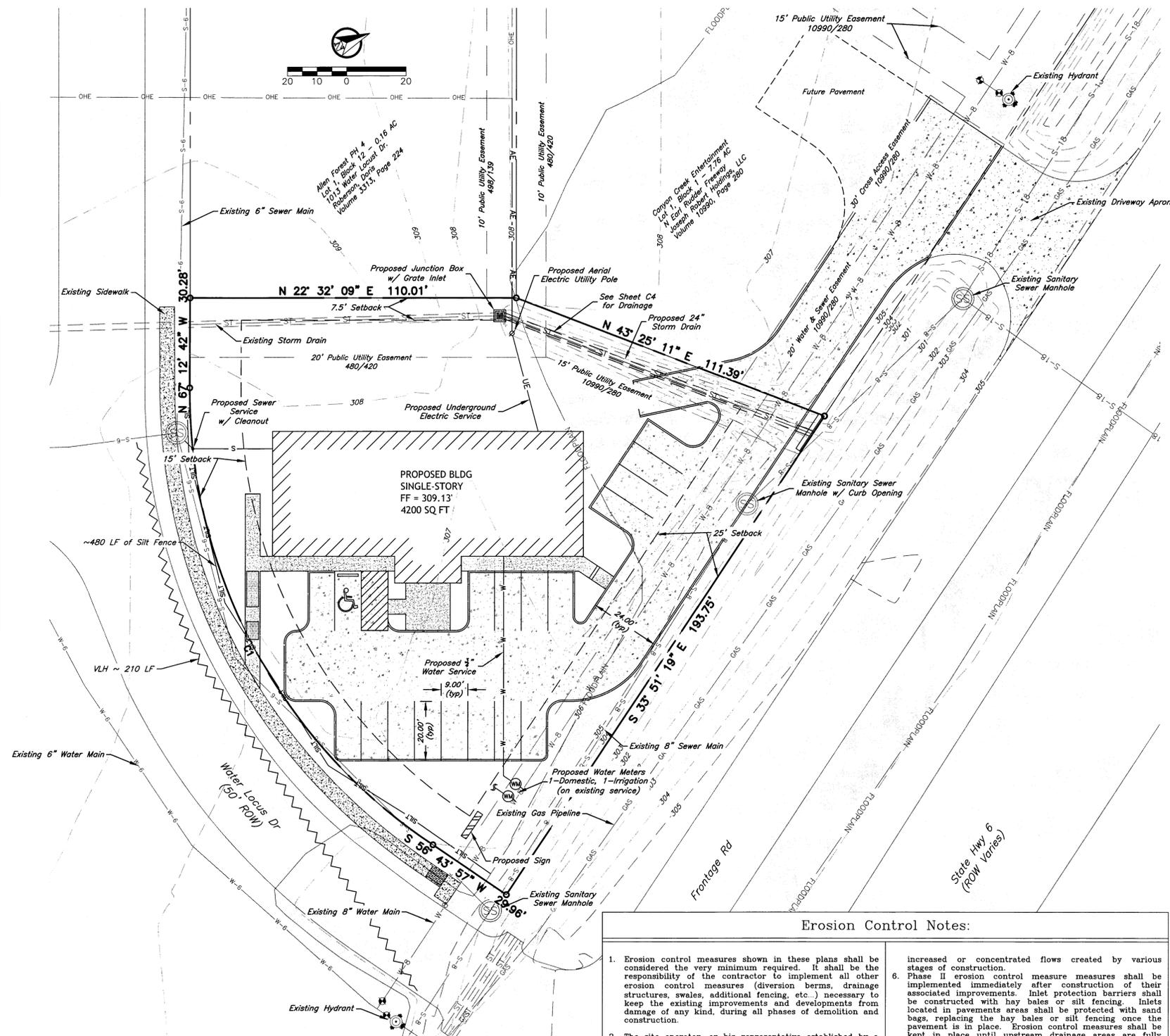
---	Existing Conditions
---	Proposed Construction
---	Easements
S-6	Sewer Lines
S	Sewer Service Lines
W	Water Lines
W	Water Service Lines
AE	Overhead Electrical
UE	Underground Electrical
---	Silt Fence
---	Chain Link Fence
---	Wood Fence
T	Telephone
320	Existing Contour
320	Proposed Contour
WM	Water Meter
SM	Sanitary Sewer Manhole
Hydrant	Hydrant
Valve	Valve

NOTICE!

The contractor is specifically cautioned that the location and/or elevation of the existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. It is the contractor's responsibility to avoid all existing utilities and repair any damaged lines, at his own expense, whether the utility is shown on these plans or not. The contractor shall notify the appropriate utility company 48 hours prior to any excavation.

Contact Information:

Texas One Call:	800-245-4545
Lone Star One Call:	800-889-8344
Texas Excavation Safety System (Digtest):	800-344-8377
Bryan Texas Utilities:	979-821-5885
Atmos Energy:	979-774-2506
Verizon:	979-821-4300
Suddenlink:	979-846-2228



Erosion Control Notes:

1. Erosion control measures shown in these plans shall be considered the very minimum required. It shall be the responsibility of the contractor to implement all other erosion control measures (diversion berms, drainage structures, swales, additional fencing, etc.) necessary to keep the existing improvements and developments from damage of any kind, during all phases of demolition and construction.
2. The site operator, or his representative established by a letter of delegation, shall make a visual inspection of all siltation controls and newly stabilized areas on a daily basis, especially after a rainfall to insure that all controls are maintained and properly functioning. Any damaged controls shall be repaired or replaced prior to the end of the work day, including re-seeding and mulching or re-sodding, if necessary.
3. All sediment trapping devices shall be installed as soon as practical after the area has been disturbed. All sediment trapping devices shall be cleaned when sediment level reaches 25% capacity. Sediment shall be disposed of by spreading on site or hauling away if not suitable for fill.
4. During construction, contractor shall maintain best management practice (bmp) Sediment fence, hay bale barriers, or other devices shall control all storm water leaving the site.
5. The contractor shall be responsible for establishing temporary erosion control measures as required for different phases of construction. Erosion control measures shown may need to be adjusted to handle increased or concentrated flows created by various stages of construction.
6. Phase II erosion control measure measures shall be implemented immediately after construction of their associated improvements. Inlet protection barriers shall be constructed with hay bales or silt fencing. Inlets located in pavement areas shall be protected with sand bags, replacing the hay bales or silt fencing once the pavement is in place. Erosion control measures shall be kept in place until upstream drainage areas are fully stabilized.
7. The contractor is responsible for removing sediment control devices after the site has been seeded and/or sodded, and ground cover has taken root.
8. The contractor shall take all necessary measures to ensure that all disturbed areas are stabilized. Designated areas shall be block sodded and all other areas disturbed due to construction shall be hydro-mulched seeded. These stabilized areas shall be sodded or seeded, fertilized, and watered to establish a solid ground cover within 30 days of completion or if activities cease for 14 days.
9. When hydro-mulching is required, contractor shall keep mulch moist after installation and until area shows growth.
10. Erosion control measures shall be implemented prior to any excavation or demolition work.

Site Plan

General Notes:

1. The topography shown is from field survey data.
2. All utilities shown are taken from the best available information based on construction utility documents obtained by J4 Engineering from City and Independent agencies and/or above ground field evidence. Shown positions may not represent as-built conditions.
3. The contractor shall be responsible for verifying the exact location of all existing underground utilities, whether shown on these plans or not. Notification of the utility companies 48 hours in advance of construction is required.
4. Contractor is responsible for field verifying existing and proposed grades prior to any construction and reporting any inconsistencies to the Owner.
5. All construction shall be in accordance with the current BCS Standard Specifications, Details, and Design Guidelines for Water, Sewer, Streets, and Drainage, unless otherwise noted.
6. All signage will need to meet the requirements of the City of Bryan Sign Ordinance.
7. Potable Water Protection - All devices, appurtenances, appliances, and apparatus intended to serve some special function and that connects to the water supply system, shall be provided with protection against backflow and contamination of the water supply system.
8. Normal Domestic Wastewater is anticipated to be discharged from this development.
9. It is the intent of these plans to comply with all City of Bryan guidelines, details & specifications.

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No.	Revision/Issue	Date

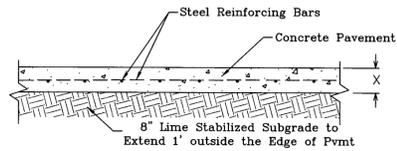
Firm Name and Address:

J4 Engineering
 PO Box 5192 - Bryan, Texas - 77805
 979-739-0567 www.J4Engineering.com
 Firm# 9951

Project Name and Address:

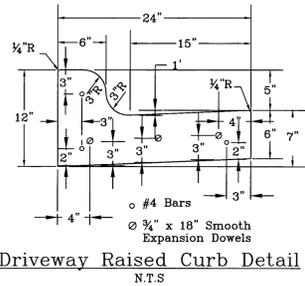
Canyon Creek Office Building
 N Earl Rudder Freeway
 Lot 2, Block 1, Canyon Creek Entertainment
 Bryan, Brazos County, Texas

Date: May 2015
 Scale: As Noted
 Sheet: C2

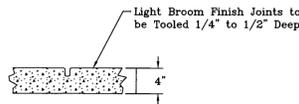


- X=6" or 8" as Shown on the Plan
- 6" Pavement - use #8 rebar @ 18" O.C.E.W.

Typical Concrete Paving Section
N.T.S.

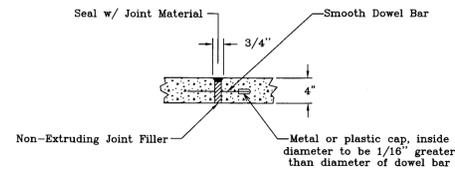


Driveway Raised Curb Detail
N.T.S.

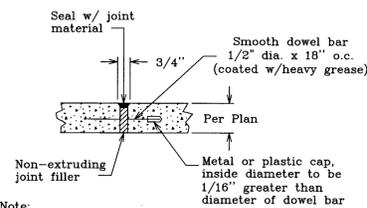


Sidewalk Contraction Joint Detail
N.T.S.

- Sidewalk Note:**
- Sidewalk joint sealant to be Sonoborn SL-1 or approved equal.
 - Sidewalk expansion joints shall be spaced at 60' maximum intervals.
 - Sidewalk contraction joints shall be spaced at a maximum interval equal to the sidewalk width.

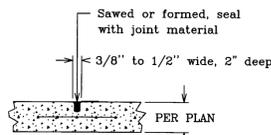


Sidewalk Expansion Joint Detail
N.T.S.



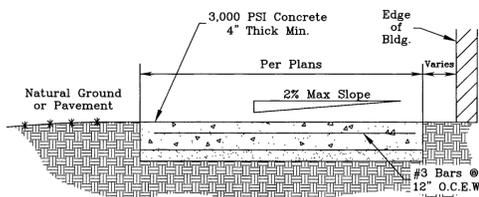
- Note:**
- Expansion joint sealant to be Sonoborn SL-1 or approved equal.
 - Expansion joints shall be spaced at 45' maximum intervals.

PVMT Expansion Joint Detail
N.T.S.



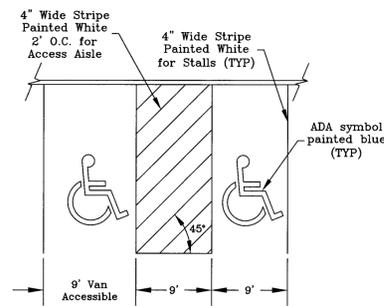
- Note:**
- Contraction joint sealant to be Sonoborn SL-1 or approved equal.
 - Contraction joints shall be spaced at 15' maximum intervals.

PVMT Contraction Joint Detail
N.T.S.

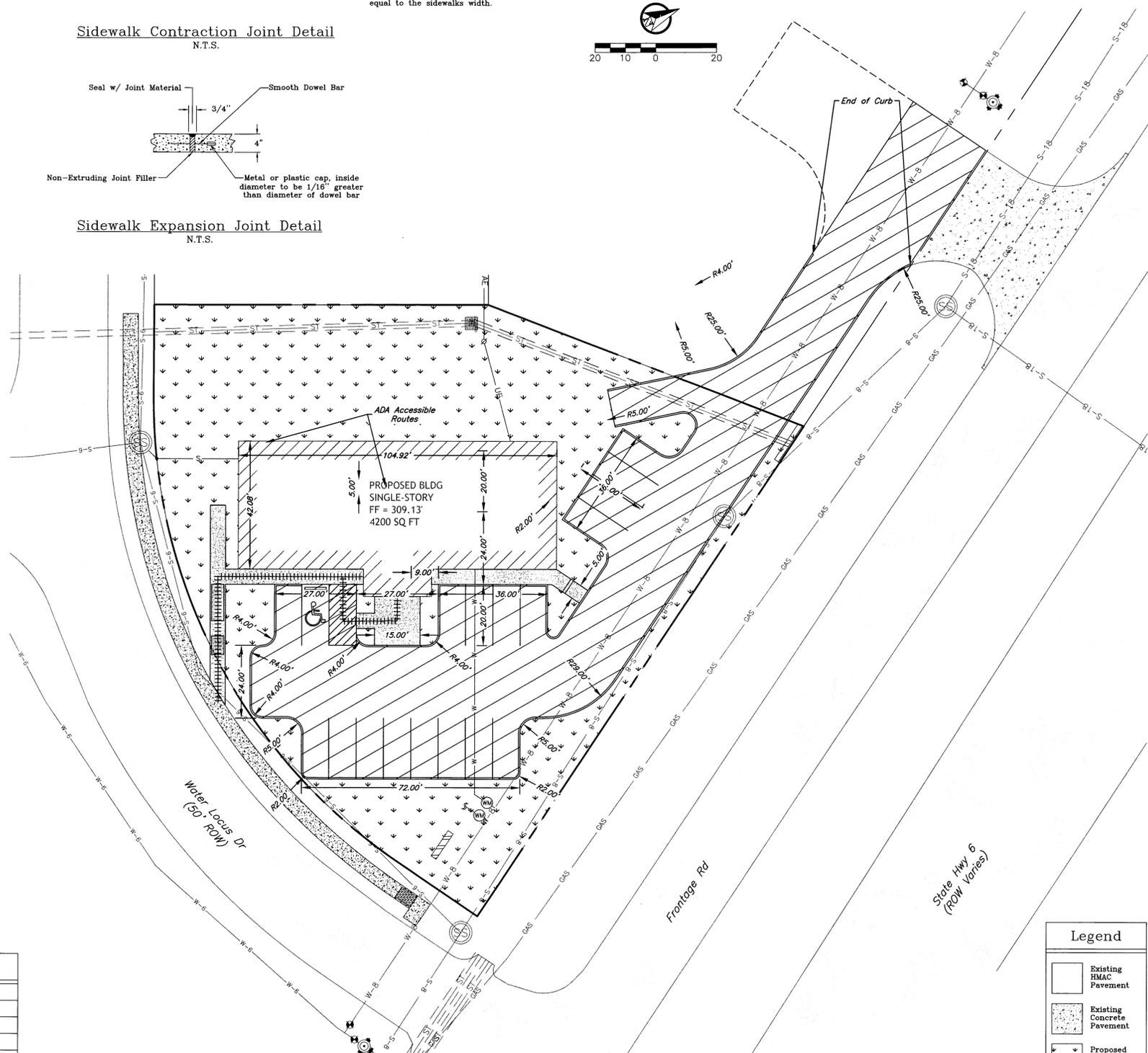


- Note:**
- Install expansion joints at 40' (max) longitudinal spacing and install control joints at 5' (max) longitudinal spacing

Typical Sidewalk
N.T.S.



ADA Pavement Markings
N.T.S.



Pavement Plan

General Notes:

- Refer to Final Plat for all lot dimensions and bearings.
- All dimension are to back of curb or edge of pavement, unless otherwise noted.
- Maximum cross slope for all ADA accessible routes is 2% for sidewalks and pavement. The minimum cross slope for sidewalks is 1%.
- All ADA ramps shall have a detectable warning surface for the full length of the ramp within the project site. Ramps on public sidewalks to have detectable warning surface to comply with local and state ADA requirements.
- Materials and methods for pavement markings shall conform to TxDOT Standard Specifications for Construction of Highways, Streets, and Bridges (current edition), with the following exceptions: 1) Type II marking materials need not be purchased from the Department, and 2) Glass beads may be omitted, but marking material shall be Type II paint-type material.
- It is the intent of these plans to comply with all City of Bryan guidelines, specifications, & details.

Preliminary Plans Only Not for Construction

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Released for Review

No.	Revision/Issue	Date

Firm Name and Address:

JA Engineering
 PO Box 5192 - Bryan, Texas - 77805
 979-739-0567 www.JAEngineering.com
 Firm# 9951

Project Name and Address:
Canyon Creek Office Building
 N Earl Rudder Freeway
 Lot 2, Block 1, Canyon Creek Entertainment
 Bryan, Brazos County, Texas

Date: May 2015
 Scale: As Noted
 Sheet: C3

Legend

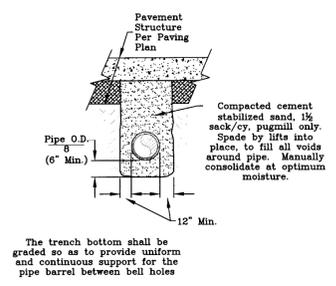
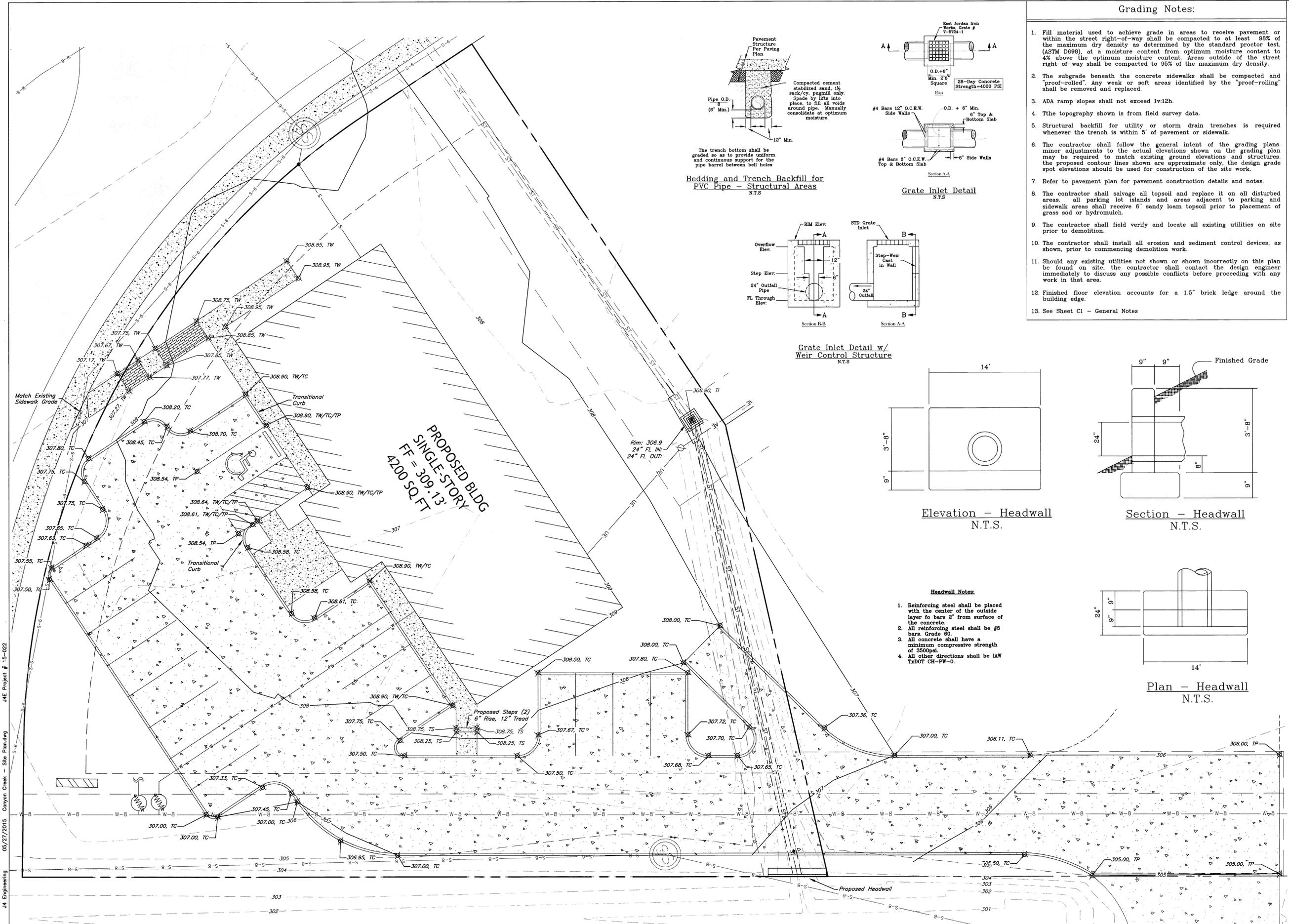
- Existing HMA Pavement
- Existing Concrete Pavement
- Proposed Landscaped Area
- Proposed 6" Concrete Pavement
- Proposed 4" Concrete Sidewalk

Subgrade Stabilization Table:

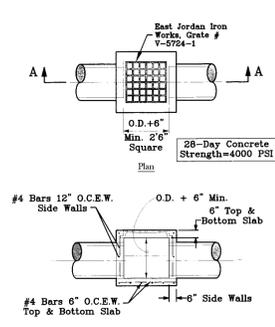
PI	% Required	Material
<5	5%	Cement
<25	5%	Lime
26-33	6%	Lime
34-40	7%	Lime
>40	Determined by ASTM C977	Lime

Paving Notes:

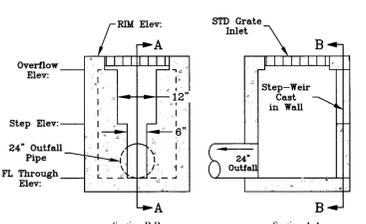
- All concrete for pavement construction shall be to the minimum depth shown on the plans and shall have a minimum 28-day compressive strength of 3500 PSI. The maximum percentage of fly ash replacement of portland cement shall be 20 percent by weight.
- Item 360 of the TxDOT "Standard Specifications for Construction and Maintenance of Highways, Street, & Bridges" shall be used as a technical specification for reinforced concrete pavement.
- Subgrade shall be stabilized per the "Subgrade Stabilization Table" shown on this plan. The lime stabilized soil shall be mixed to provide a homogeneous mixture with a minimum ph of 12.4, and which meets the gradation requirements specified in the TxDOT, Standard Specifications for Construction of Highways, Streets, and Bridges, Item 260. The lime stabilized soil shall be compacted to a density of at least 98% of the maximum dry density as determined by ASTM D698 at a moisture content from optimum moisture to 4% above optimum moisture content. The lime used to stabilize the soil shall meet the requirements of TxDOT Item 264, "Lime and Lime Slurry". The lime stabilized subgrade should extend a minimum of 12" outside the pavement.
- The subgrade beneath the concrete sidewalks shall be compacted and "proof-rolled", any weak or soft areas identified by the "proof-rolling" shall be removed and replaced.
- A sand leveling course under concrete pavement is NOT permitted.
- Joint sealant material to be Sonoborn SL-1 or approved equal.
- Curing compound shall be applied uniformly to the concrete after the surface finishing is complete at the rate recommended by the manufacturer. The curing compound shall meet the requirements of TxDOT Item 526.
- Contractor shall provide engineer with a proposed pavement expansion and contraction joint plan prior to pavement construction.
- See Sheet C1-General Notes.



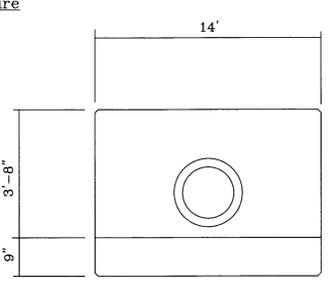
Bedding and Trench Backfill for PVC Pipe - Structural Areas
N.T.S.



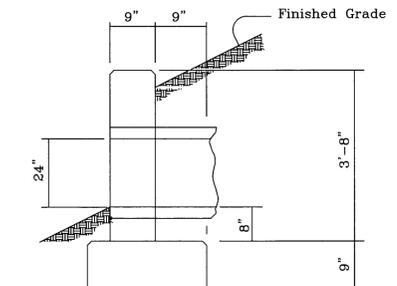
Grate Inlet Detail
N.T.S.



Grate Inlet Detail w/ Weir Control Structure
N.T.S.



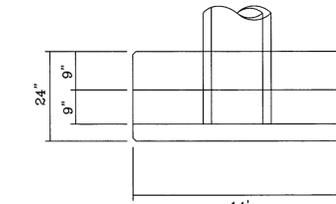
Elevation - Headwall
N.T.S.



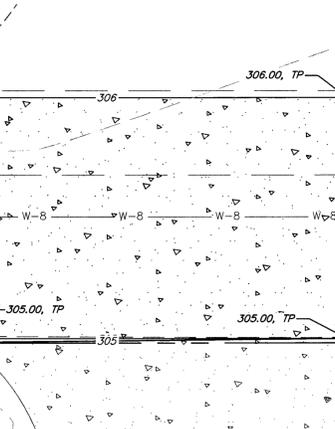
Section - Headwall
N.T.S.

Headwall Notes:

1. Reinforcing steel shall be placed with the center of the outside layer to bars 2" from surface of the concrete.
2. All reinforcing steel shall be #5 bars. Grade 60.
3. All concrete shall have a minimum compressive strength of 3500psi.
4. All other directions shall be IAW TxDOT CH-FW-0.



Plan - Headwall
N.T.S.



Proposed Headwall
N.T.S.

Grading Notes:

1. Fill material used to achieve grade in areas to receive pavement or within the street right-of-way shall be compacted to at least 98% of the maximum dry density as determined by the standard proctor test. (ASTM D698), at a moisture content from optimum moisture content to 4% above the optimum moisture content. Areas outside of the street right-of-way shall be compacted to 95% of the maximum dry density.
2. The subgrade beneath the concrete sidewalks shall be compacted and "proof-rolled". Any weak or soft areas identified by the "proof-rolling" shall be removed and replaced.
3. ADA ramp slopes shall not exceed 1v:12h.
4. The topography shown is from field survey data.
5. Structural backfill for utility or storm drain trenches is required whenever the trench is within 5' of pavement or sidewalk.
6. The contractor shall follow the general intent of the grading plans. minor adjustments to the actual elevations shown on the grading plan may be required to match existing ground elevations and structures. the proposed contour lines shown are approximate only, the design grade spot elevations should be used for construction of the site work.
7. Refer to pavement plan for pavement construction details and notes.
8. The contractor shall salvage all topsoil and replace it on all disturbed areas. all parking lot islands and areas adjacent to parking and sidewalk areas shall receive 6" sandy loam topsoil prior to placement of grass sod or hydromulch.
9. The contractor shall field verify and locate all existing utilities on site prior to demolition.
10. The contractor shall install all erosion and sediment control devices, as shown, prior to commencing demolition work.
11. Should any existing utilities not shown or shown incorrectly on this plan be found on site, the contractor shall contact the design engineer immediately to discuss any possible conflicts before proceeding with any work in that area.
12. Finished floor elevation accounts for a 1.5" brick ledge around the building edge.
13. See Sheet C1 - General Notes

Grading & Drainage Plan

General Notes:

1. Assure positive drainage across project site to the storm water structures.
2. All site work to be done in conformance with the BCS Unified Standards Specifications, unless otherwise stated in these plans.
3. All fill subgrade and base material shall be compacted to 98% STD in areas to be paved and 95% STD in all other areas.
4. All concrete to be constructed with 3000 psi - 28 day strength portland cement concrete.
5. All elevations shown are finished grade.
6. In lieu of using the construction materials indicated in the plans, the contractor shall obtain written approval from the owner for any substitution.
7. The contractor shall be responsible for the containment and proper disposal of all liquid and solid waste associated with the project and shall use all means necessary to prevent the occurrence of wind blown litter.
8. Contractor is required to provide containment for waste, prior to, and during, demolition/construction. Solid waste roll-off boxes/metal dumpsters shall be supplied by City or City permitted contractor(s) only.
9. It is the intent of these plans to comply with all City of Bryan guidelines, details & specifications.

FL - Flow Line
NG - Top of Ground
TC - Top of Curb
TP - Top of Pavement
TS - Top of Step
TW - Top of Sidewalk

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No.	Revision/Issue	Date

Firm Name and Address:
J4 Engineering
 PO Box 5192 - Bryan, Texas - 77805
 979-733-0567 www.j4engineering.com
 Firm# 9951

Project Name and Address:
Canyon Creek Office Building
 N Earl Rudder Freeway
 Lot 2, Block 1, Canyon Creek Entertainment
 Bryan, Brazos County, Texas

Date: May 2015	Sheet:
Scale: As Noted	C4

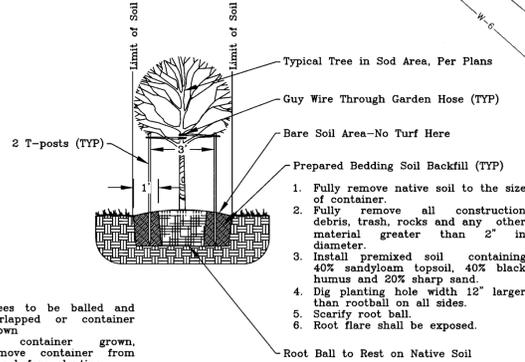
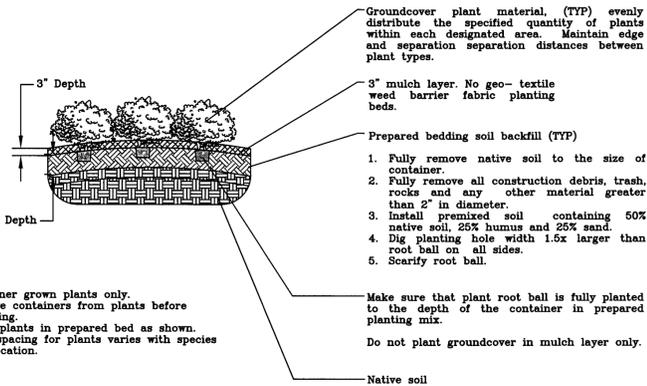
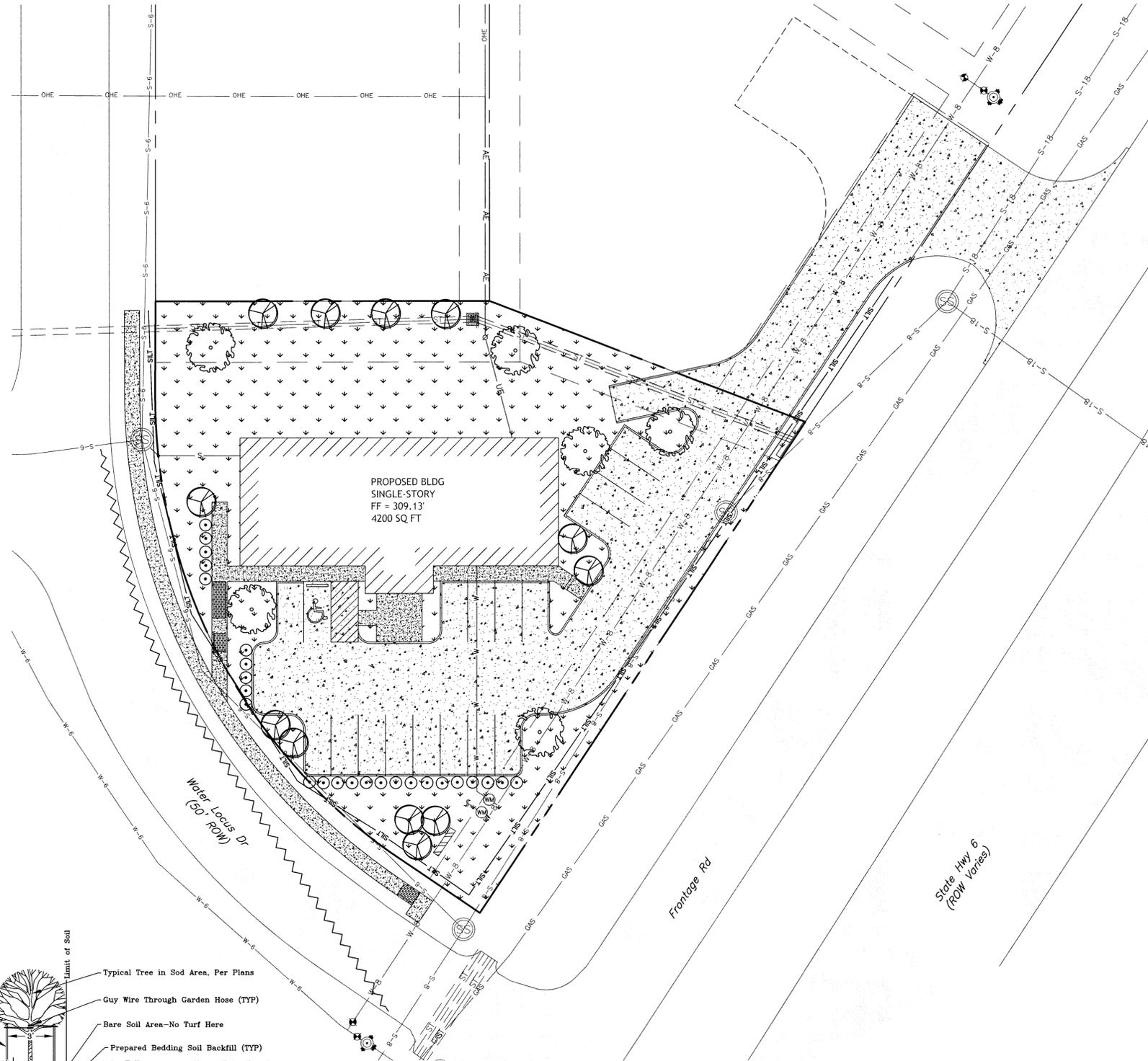
Landscape Analysis:

Construction Activities:			
Parking & Pavement	=	13,437	SF
Building	=	4,617	SF
Net Total	=	18,054	SF
Requirements:			
Building, Parking, & Pavement	=	18,054	SF @ 15%
Net Total	=	2,708	SF
Provided:			
Canopy Trees	=	6 @ 200	SF
Non-Canopy Trees	=	12 @ 150	SF
Shrubs	=	25 @ 10	SF
Net Total	=	3,250	SF

Symbol	Qty.	Common Name	Botanical Name	Size
	6	Live Oak	Quercus Virginiana	2" cal.
	12	Crepe Myrtle	Lagerstroemia indica	1 1/2" cal.
	25	Waxleaf Ligustrum	Ligustrum japonicum	--

Landscape Notes:

- All disturbed area to be seeded with Bermuda Grass except where Bermuda Grass Sod is called for on the plans.
- "Cal." indicates caliper at 12" above the ground.
- All trees shall be provided as container grown trees.
- All landscaping plant material shall be guaranteed for a period of one year from the date of installation by contractor. After one year, the owner will be responsible for maintenance of all landscaping.
- Plant material shown here is represented at its mature size. Plants to be installed will be significantly smaller than those shown and should not be expected to reach maturity for several years dependant on growing conditions.
- Contractor is to seed all disturbed areas left unpaved and guarantee coverage of vegetation until establishment of grass. Grass type shall be Bermuda grass or Rye/Bermuda mixture.
- Plant material will be watered by hose bibs located at building corners.
- Plantings for parking lot screening (Crepe Myrtles) shall be planted a maximum of 3 feet from the edge of parking lot pavement. No Plantings shall be placed directly over existing water/sewer lines.



Notes:

- Trees to be balled and burlapped or container grown.
- If container grown, remove container from tree before planting.
- Top of root ball to be 3" higher than final grade.
- Top of root ball to be exposed.

Landscape Plan

General Notes:

- An irrigation system to service all new plantings will be installed by a certified installer prior to a certificate of occupancy being issued.
- Irrigation system must be protected by either a pressure vacuum breaker, reduced pressure principle back flow device, or a double-check back flow device and installed as per city ordinance 2394.
- All backflow devices must be installed and tested upon installation as per city ordinance 2394.
- Contractor/developer to furnish accurate as built irrigation plans to city of college station parks department. Show lines, valves, heads, controller, wiring, etc.
- 100% coverage of groundcover, decorative paving, decorative rock(not loose) or a perennial grass is required in parking lot islands, swales and drainage areas, the parking lot setback, rights-of-way, and adjacent property disturbed during construction.
- See Sheet C1-General Notes.
- It is the intent of these plans to comply with all City of Bryan guidelines, specifications, & details.

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PO Box 5192 - Bryan, Texas - 77805
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Firm # 9951

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Canyon Creek Office Building
N Earl Rudder Freeway
Lot 2, Block 1, Canyon Creek Entertainment
Bryan, Brazos County, Texas

Date:	May 2015	Sheet:	L1
Scale:	As Noted		