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EROSION CONTROL PLAN

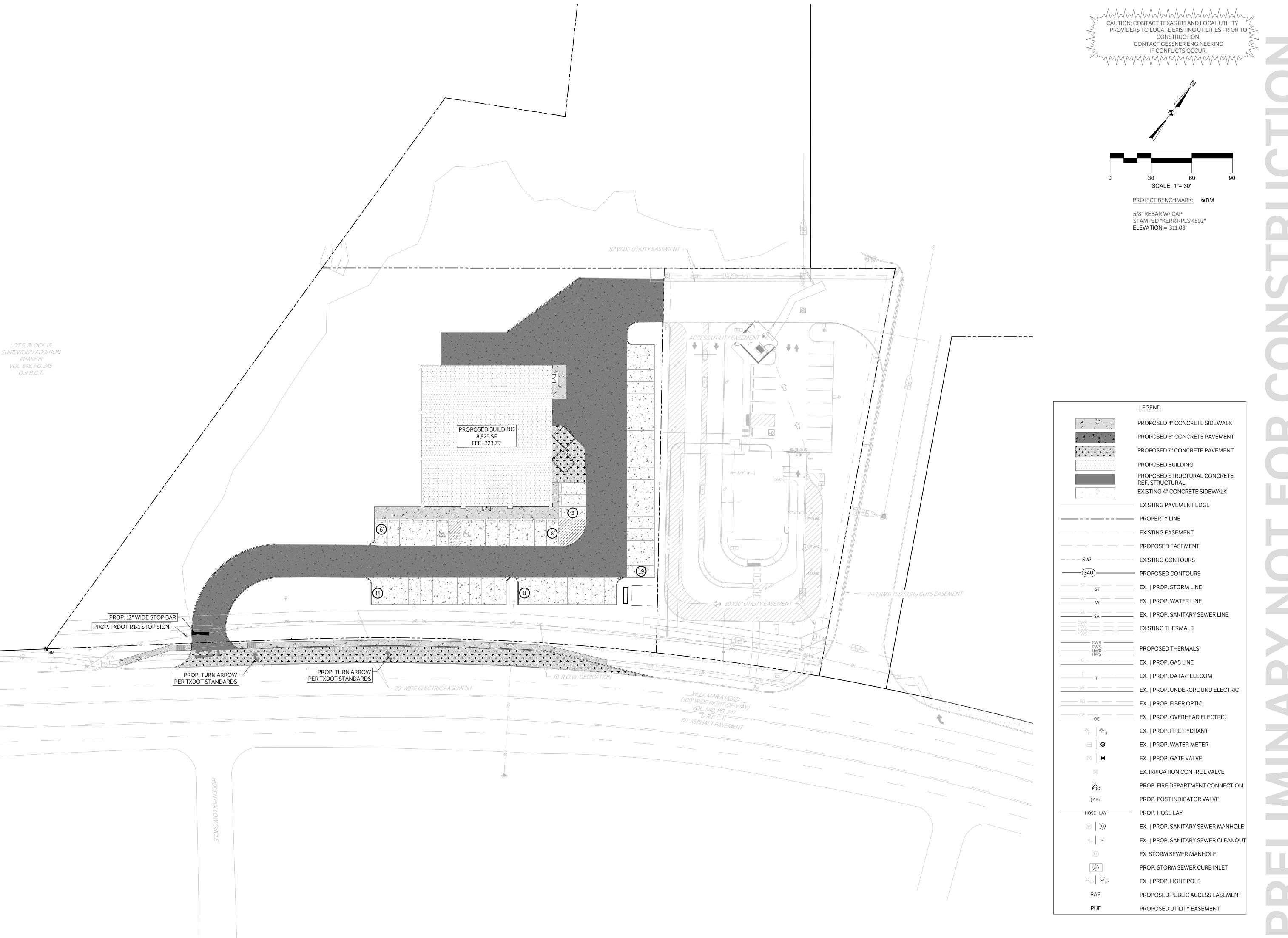
ISSUE DATE: 02-08-2023

DRAWN BY: MK

CHECKED BY: MK PROJECT #: 21-1472

REVISIONS

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RYAN, 1642 RE SIGNAGE & STRIPING PLAN

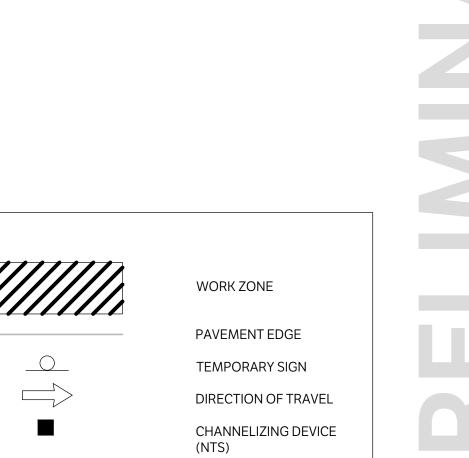
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CONSTRUCTION. CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.

120

SCALE: 1"= 60'

PROJECT BENCHMARK: ⊕BM

STAMPED "KERR RPLS 4502"

5/8" REBAR W/ CAP

ELEVATION = 311.08'

NOT FOR CONSTRUCTION

TRAFFIC CONTROL PLAN

A MARIA RD

GESSNER

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BRYAN, TEXAS 77803

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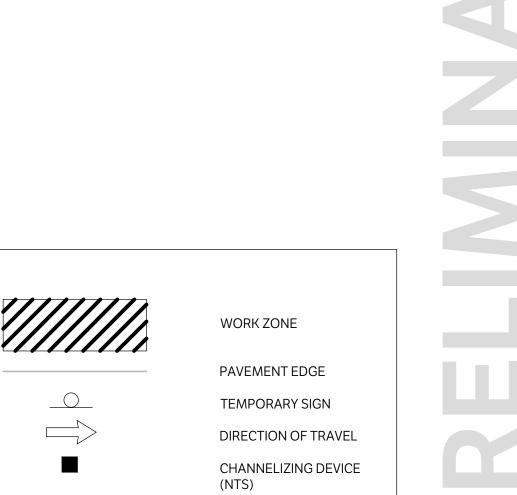
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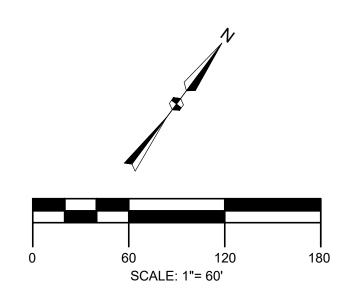


TRAFFIC CONTROL PLAN ISSUE DATE: 02-08-2023 DRAWN BY: MK CHECKED BY: MK PROJECT #: 21-1472

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY
PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.

CONTACT GESSNER ENGINEERING

IF CONFLICTS OCCUR.



PROJECT BENCHMARK: ◆BM

5/8" REBAR W/ CAP STAMPED "KERR RPLS 4502" ELEVATION = 311.08'

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12" ----12" ----**TEXT TO COMPLY WITH** RESERVED RESERVED LOCAL JURISDICTION PARKING PARKING -AND ACCESSIBILITY-REQUIREMENTS TAS 502.6 1/16" METAL SIGN VAN ACCESSIBLE VIOLATORS SUBJECT VIOLATORS SUBJECT 2" Ø STEEL POST-TO FINE AND TOWING TO FINE AND TOWING GALVANIZED CONCRETE FOUNDATION

ADA PARKING SIGN

SEE GRADING PLAN FOR SLOPE #4 BARS @ 18' OCEW

INTEGRAL CURB & GUTTER

#4 BAR,CONTINUOUS

SAW CUT 1/8" WIDE AND 1" DEEP SEAL WITH JOINT MATERIAL SIDEWALK JOINT SPACING PER

> EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

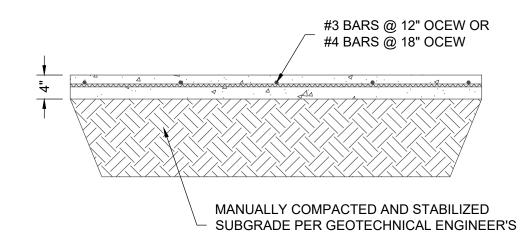
LANDSCAPE ARCHITECT OR JOINT PLAN. IF

NOT SPECIFIED, SPACING SHALL BE

SIDEWALK CONTRACTION JOINT

- DEPTH OF STABILIZATION SHALL BE PER NOTES AND SPECIFICATIONS.
- LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
- 3. SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
- 4. SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS. USE SELF LEVELING JOINT SEALANT ADJACENT TO EXISTING PAVEMENT.

SIDEWALK SECTION



RECOMMENDATIONS

- 2. SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND

NOT FOR CONSTRUCTION R PROJECT #: 21-1472

DETAILS

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ISSUE DATE: 02-08-2023

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RD

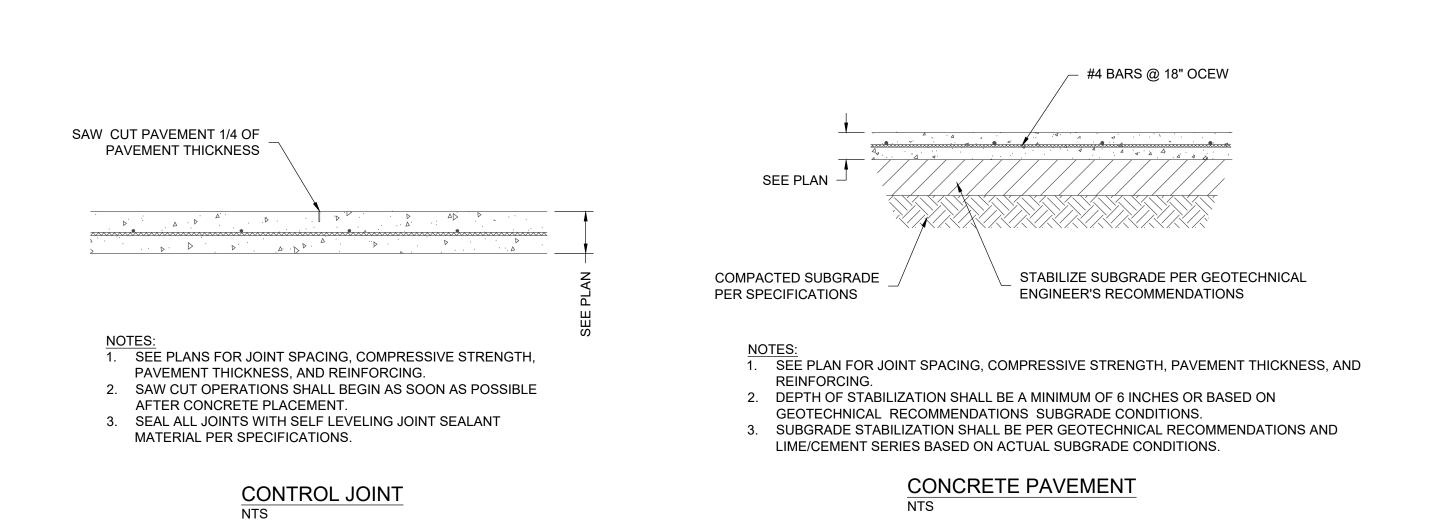
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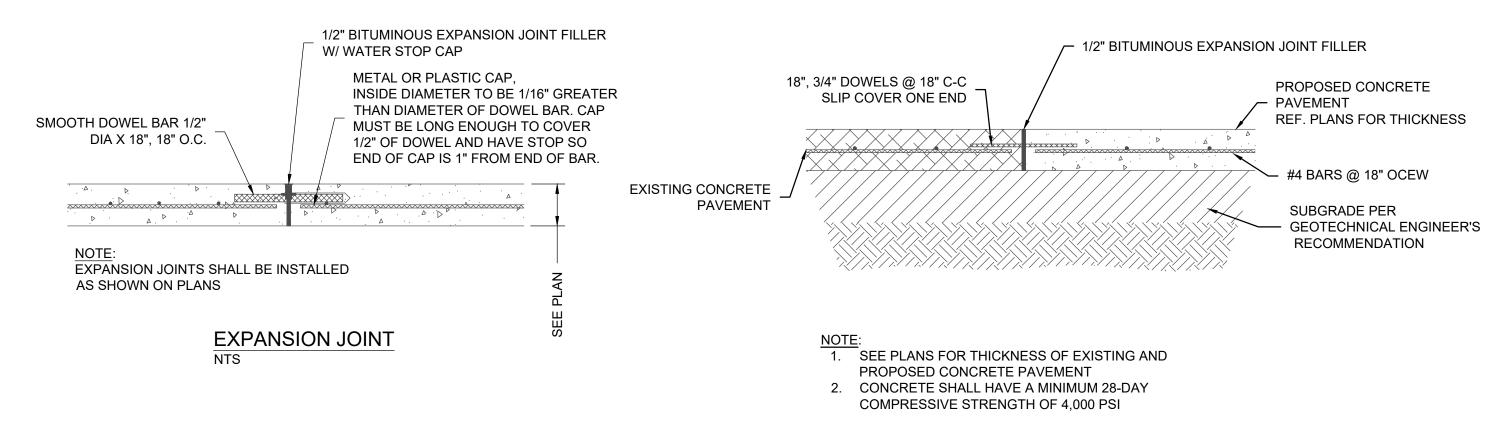
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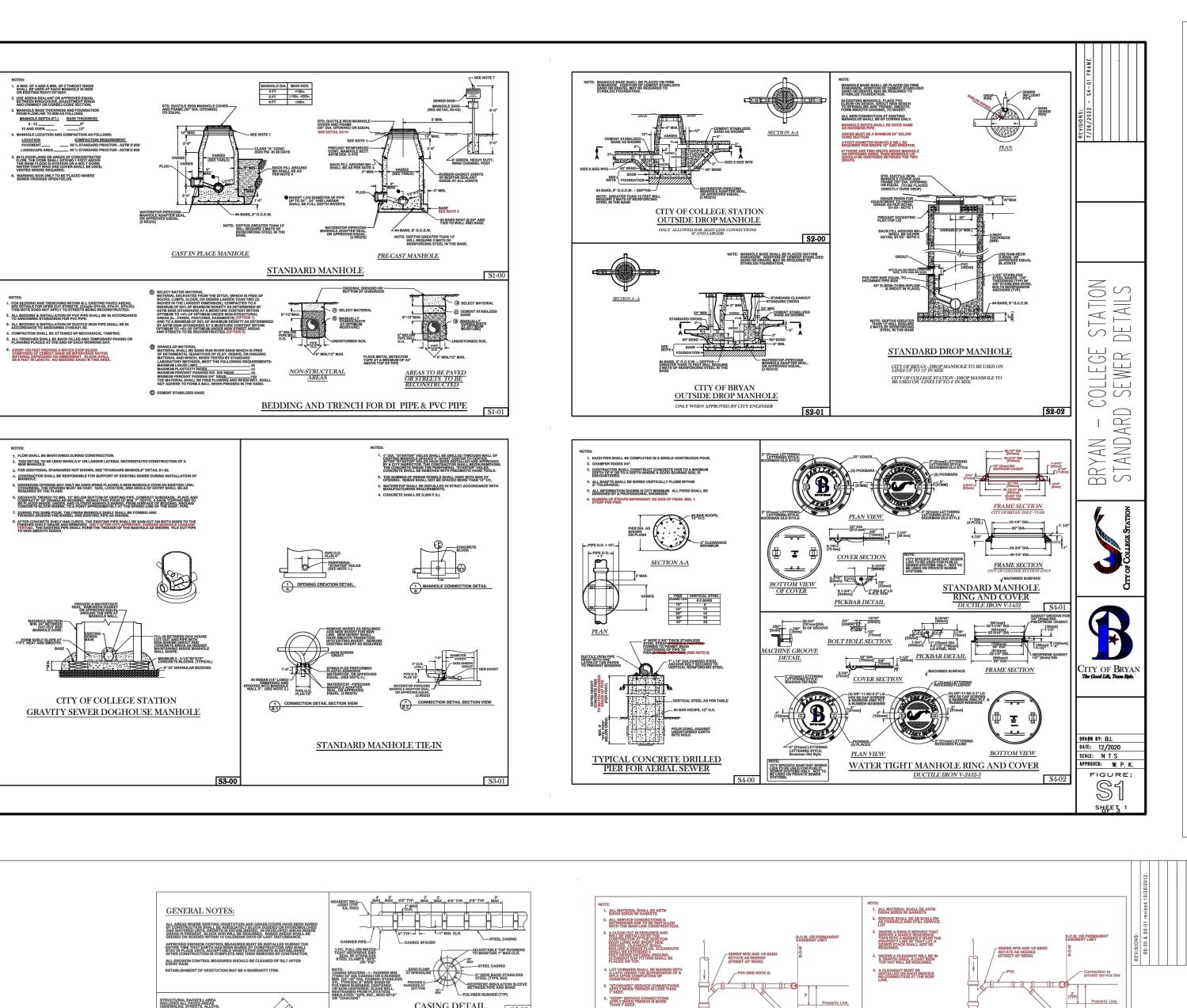
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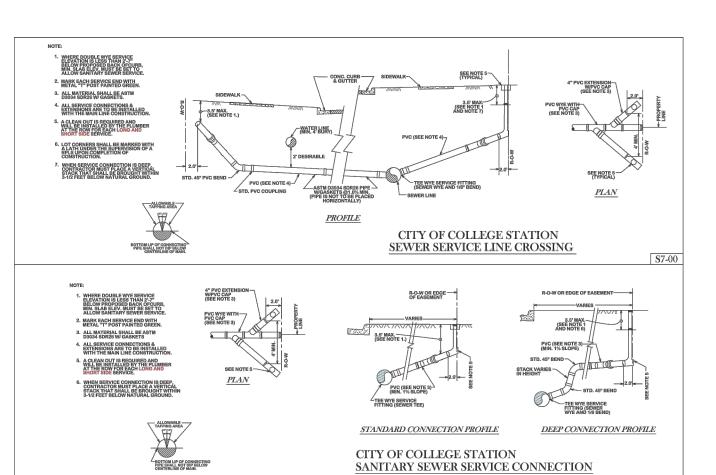
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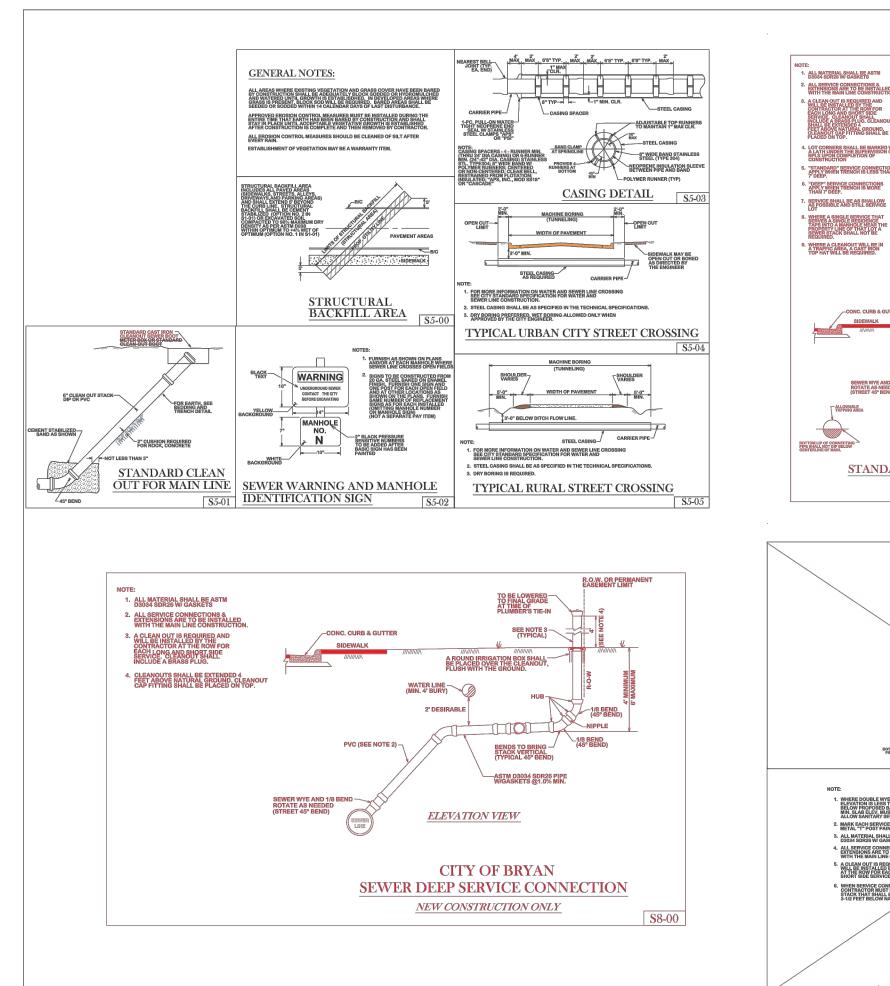


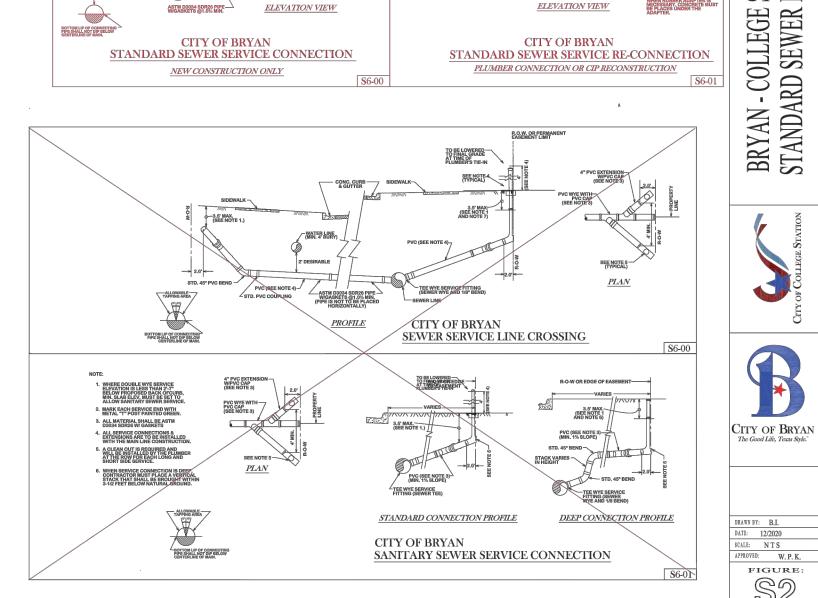


EXISTING CONCRETE TIE-IN









EXISTING OR PROP. GRAVITY SEWER LINE

SEE NOTE 3 (TYPICAL)

BENDS TO BRING — STACK VERTICAL (TYPICAL 45° BEND)

PLAN VIEW

EXISTING OR PROP. GRAVITY SEWER LINE

A CAST IRON BOX SHALL BE PLACED OVER THE CLEANOUT, FLUSH WITH THE GROUND.

Connection to private service line

STATION

BRYAN - COLLEGE S STANDARD SEWER I

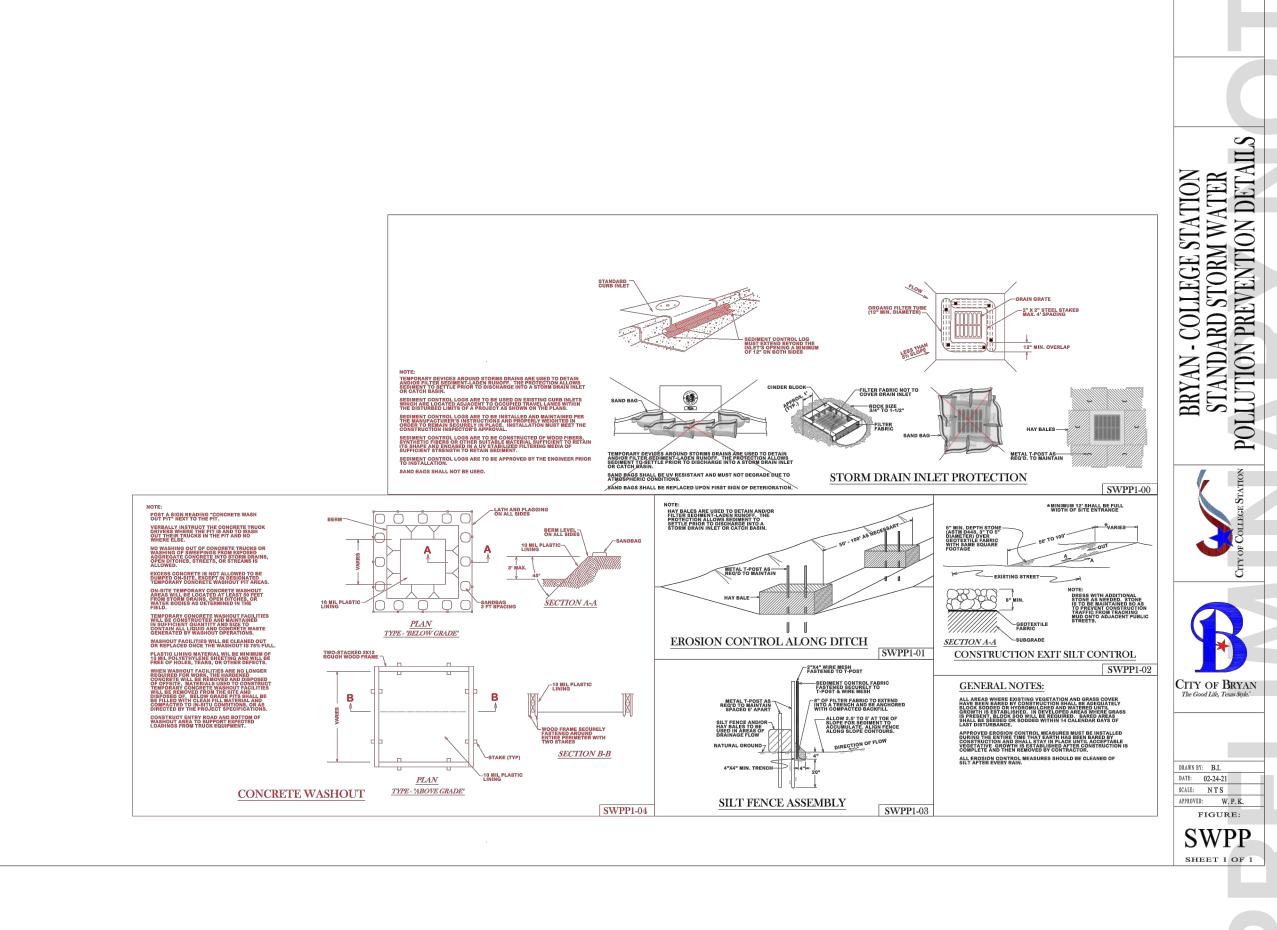
figure: \$2

PLAN VIEW

ASTM D3034 SDR26 PIPE — W/GASKETS @1.0% MIN.

BOTTOM LIP OF CONNECTING SPIPE SHALL NOT DIP BELOW CENTERLINE OF MAIN.

R.O.W. OR PERMANENT EASEMENT LIMIT





FIRM REGISTRATION NUMBERS: TBPE F-7451, TBPLS F-10193910

STATION

BRYAN - COLLEGE S STANDARD SEWER I

CITY OF BRYAN

DRAWN BY: B.I.

DATE: 12/2020

SCALE: N T S

APPROVED: W. P. K.

FIGURE: \$3 SHEET 3 OF 3

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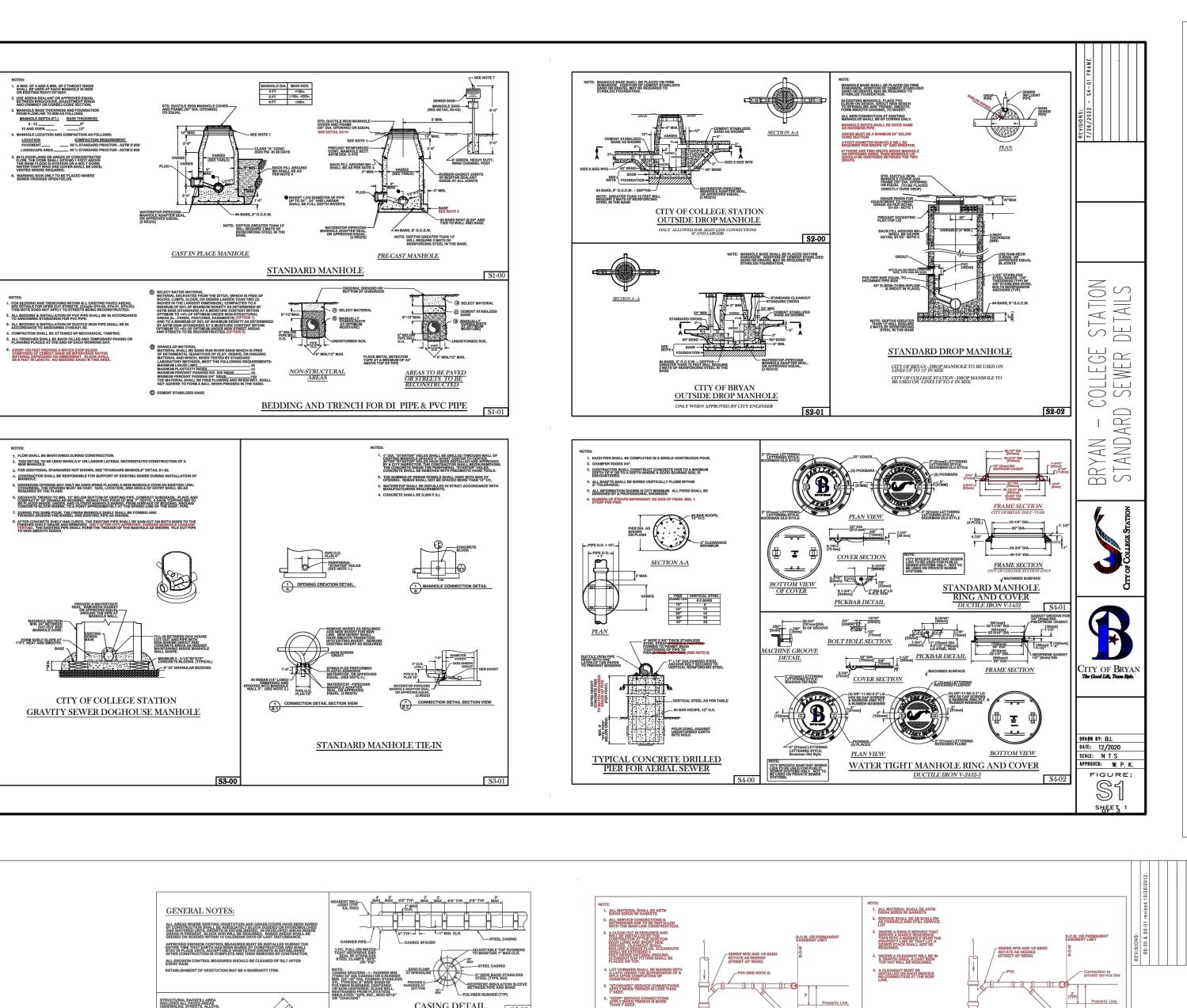
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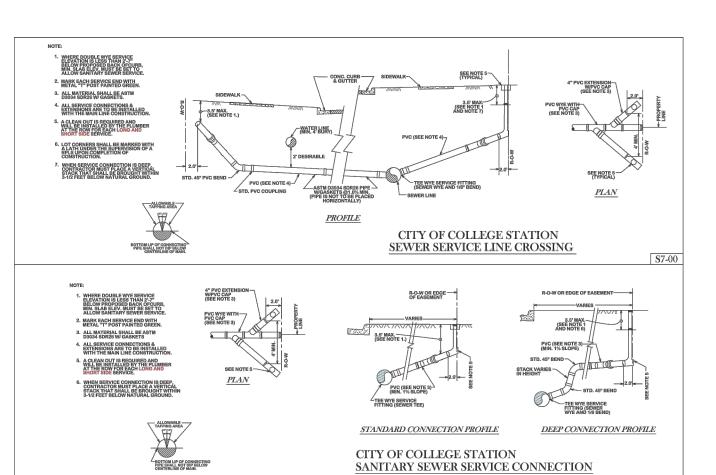
BRYAN, DETAILS

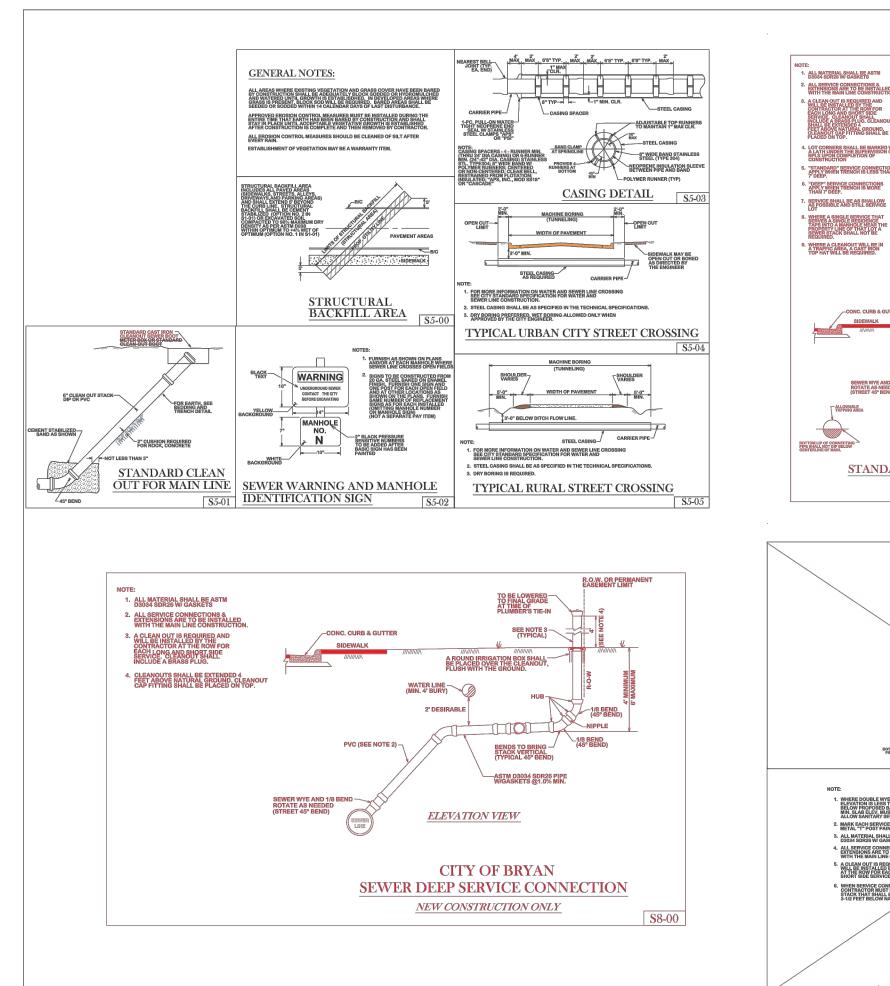
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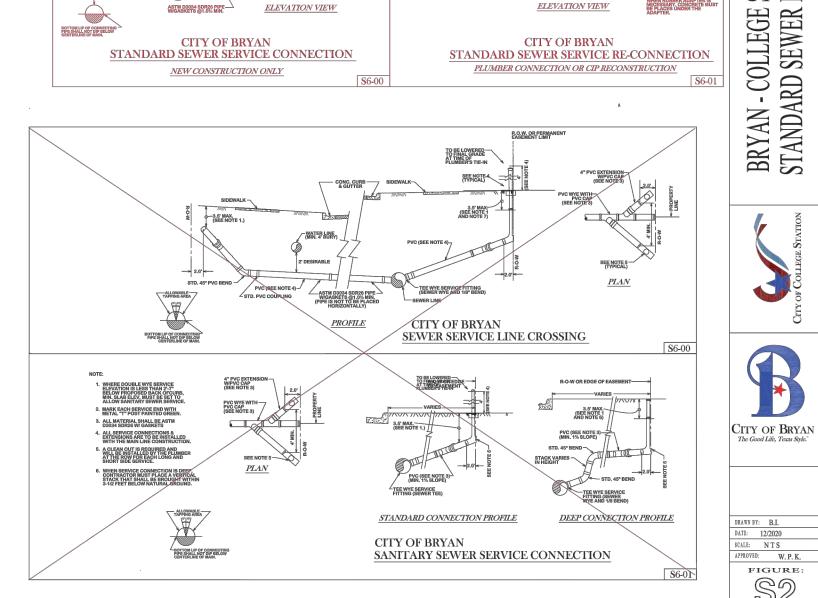
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EXISTING OR PROP. GRAVITY SEWER LINE

SEE NOTE 3 (TYPICAL)

BENDS TO BRING — STACK VERTICAL (TYPICAL 45° BEND)

PLAN VIEW

EXISTING OR PROP. GRAVITY SEWER LINE

A CAST IRON BOX SHALL BE PLACED OVER THE CLEANOUT, FLUSH WITH THE GROUND.

Connection to private service line

STATION

BRYAN - COLLEGE S STANDARD SEWER I

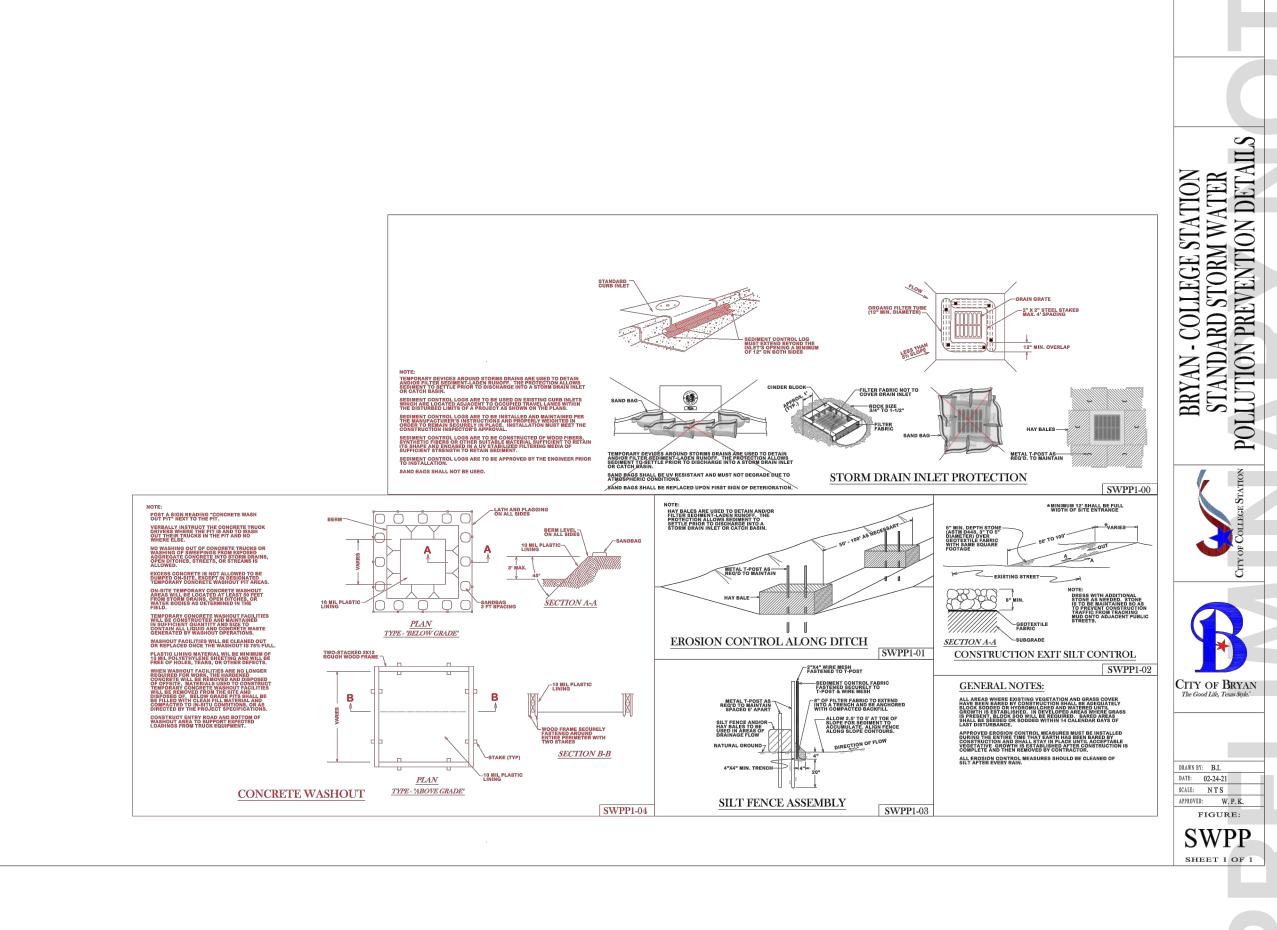
figure: \$2

PLAN VIEW

ASTM D3034 SDR26 PIPE — W/GASKETS @1.0% MIN.

BOTTOM LIP OF CONNECTING SPIPE SHALL NOT DIP BELOW CENTERLINE OF MAIN.

R.O.W. OR PERMANENT EASEMENT LIMIT





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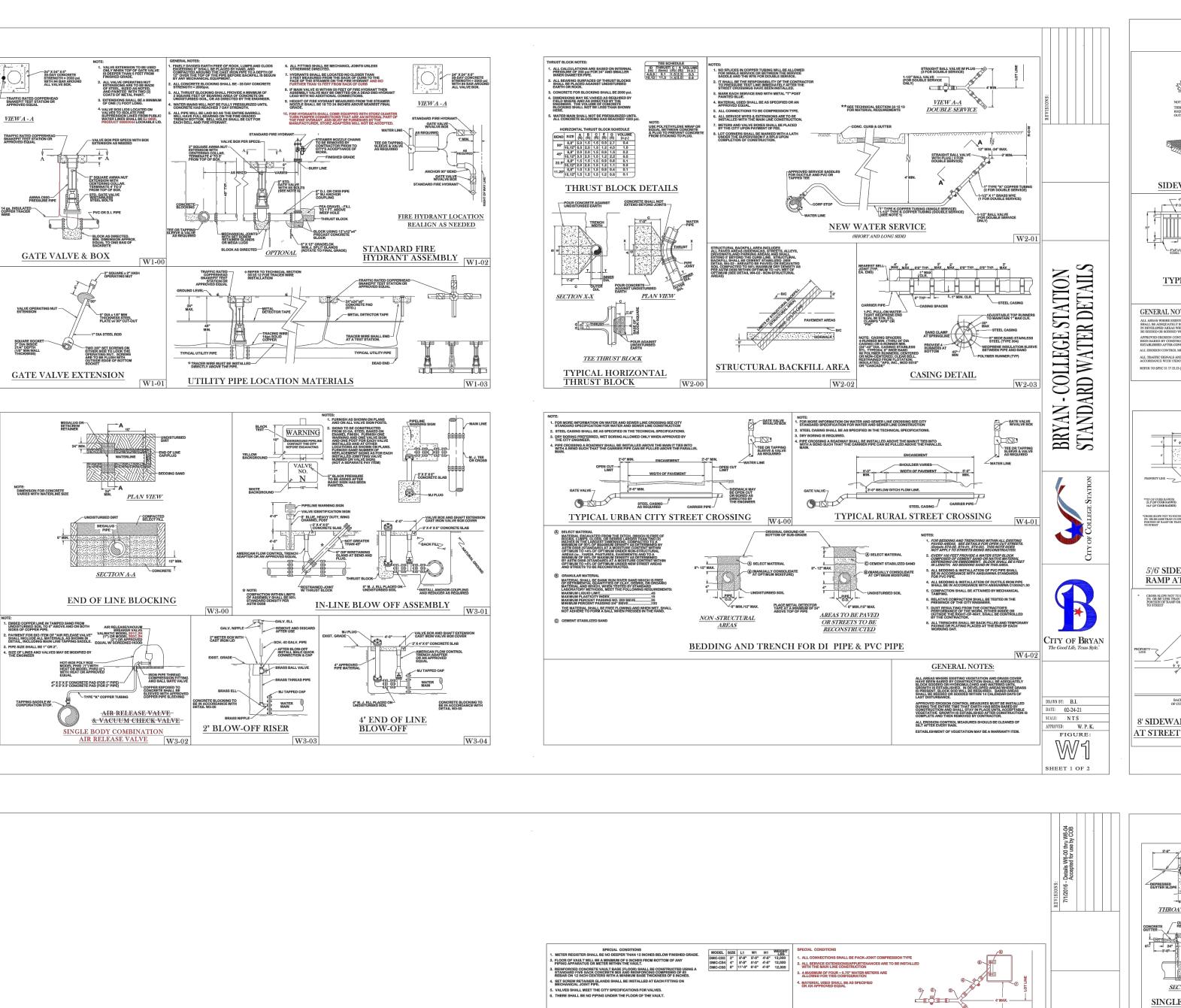
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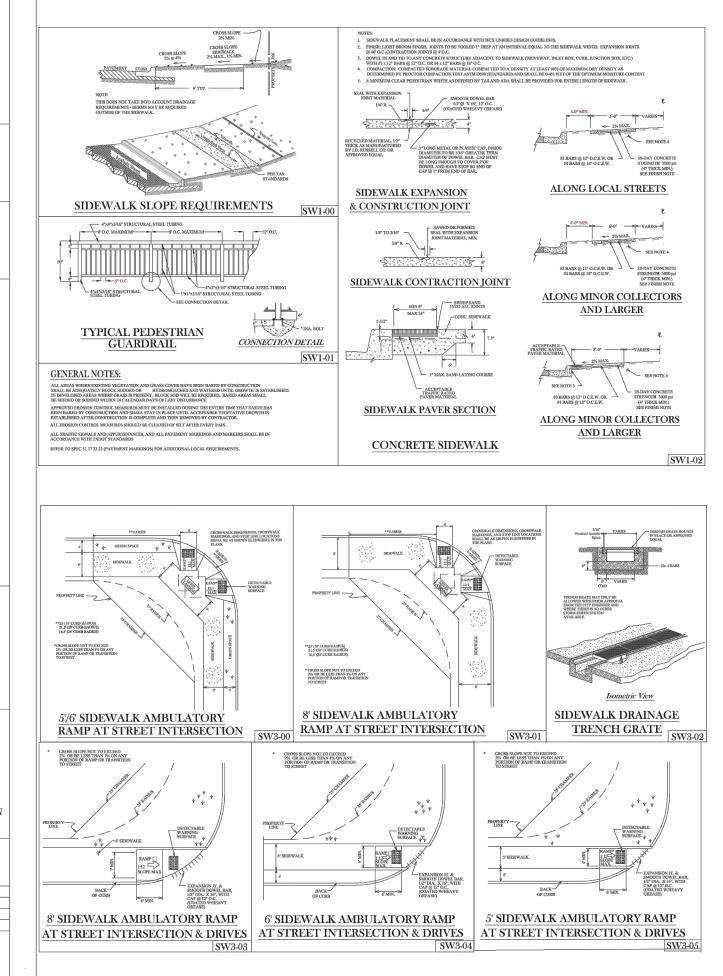
BRYAN, DETAILS

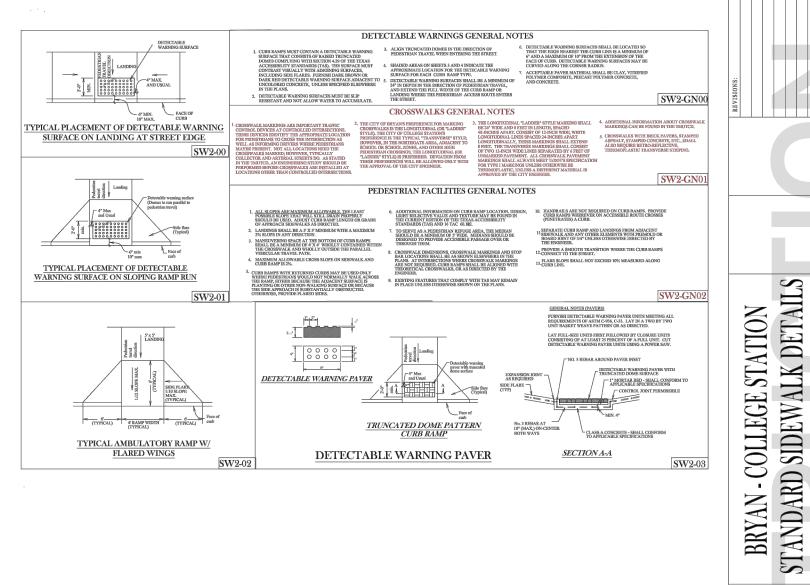
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LAND SURVEYING | STRUCTURA

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SW1 SHEET 1 OF 1 $\overline{\simeq}$ RIA \triangleleft

CITY OF BRYAN

APPROVED: W. P. K.

FIGURE:

TAIL \geq 1642 RE

BRYAN, DETAILS ISSUE DATE: 02-08-2023

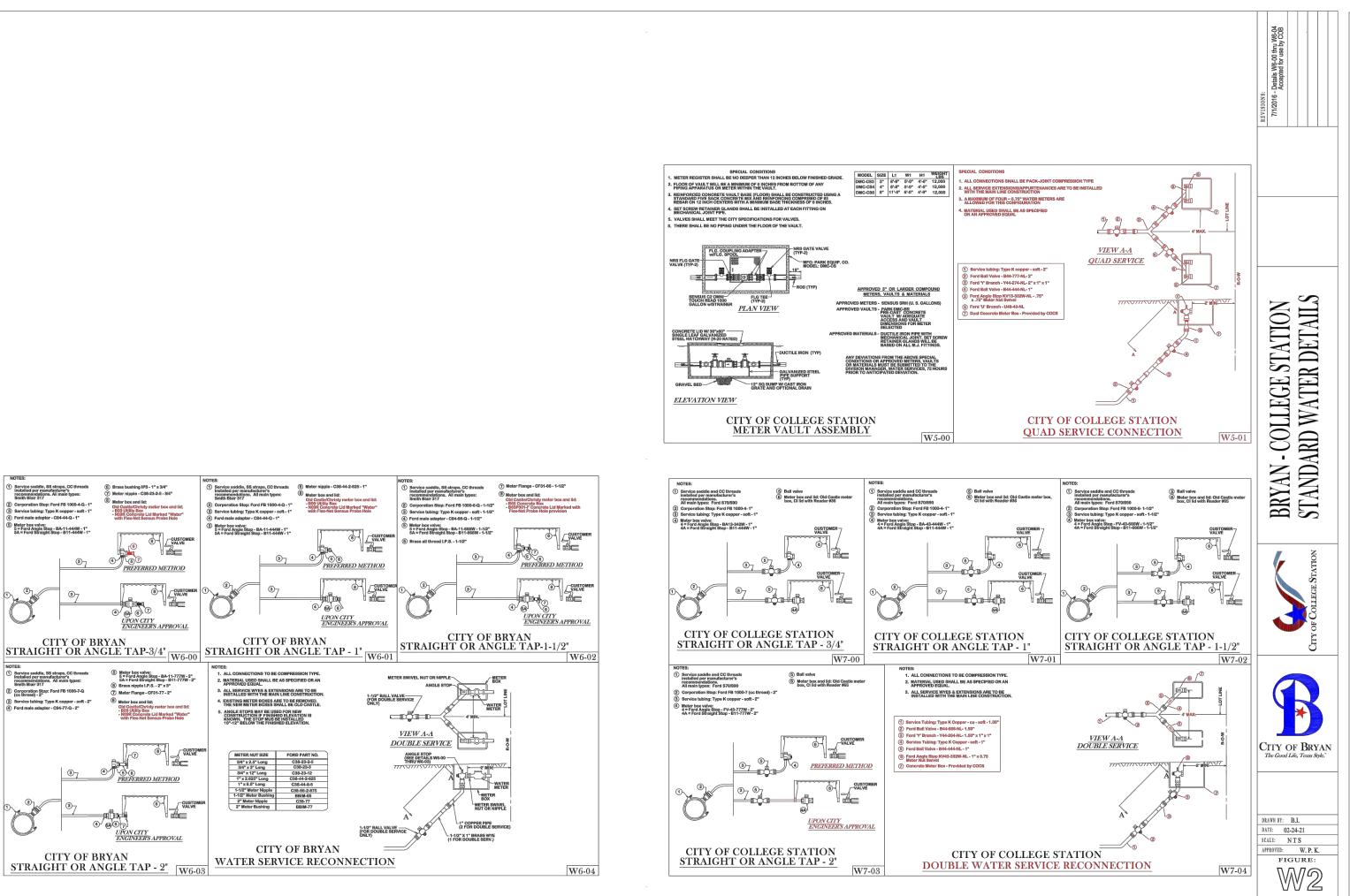
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SHEET 1 OF 1



6 Meter box valve: 5 = Ford Angle Step - BA-11-444W - 1" 5A = Ford Straight Step - B11-444W - 1"

② Corporation Stop: Ford FB 1000-7-Q (oc thread) - 2*

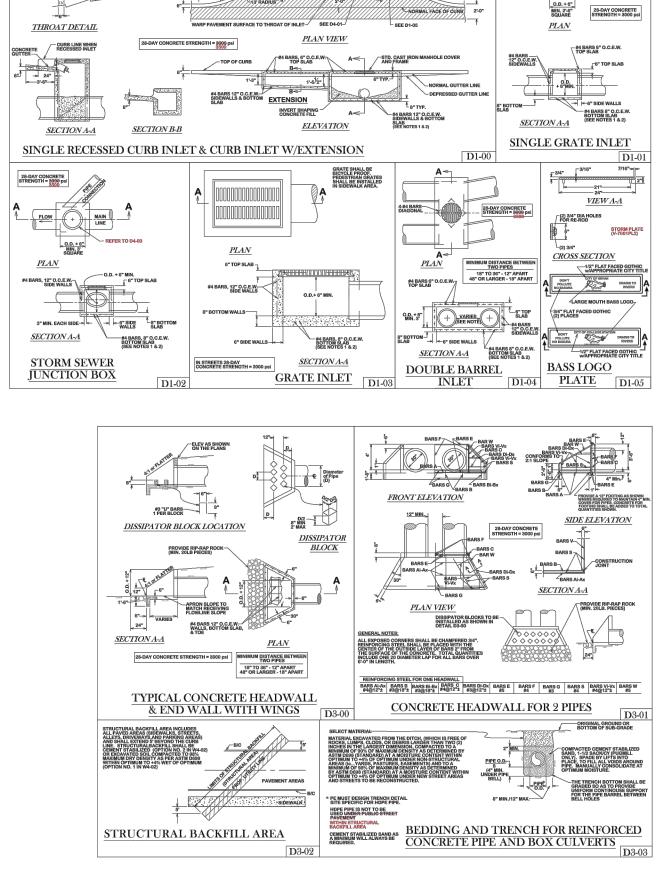
OTES:

1. ALL CONNECTIONS TO BE COMPRESSION TYPE
2. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.

3. ALL SERVICE WYES & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION

EXISTING METER BOXES ARE TO BE REMOVED, THE NEW METER BOXES SHALL BE OLD CASTLE.

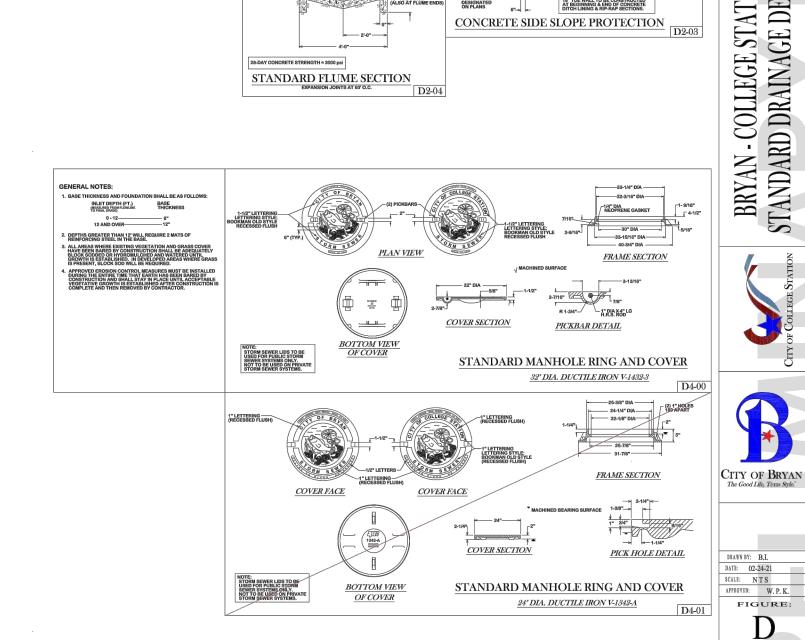
CITY OF BRYAN



SHEET 2 OF 2

5'-0" O.D. + 1'-0" | ~ 6" TYP.

EXTENSION



HIS WIFE MORE

CONCRETE CHANNEL LINING

TYPICAL LINED CHANNEL SECTION
BLOCK SOD OR ENKAMAT WHYDRO-MULCH

STANDARD CHANNEL SECTION

WEEP HOLE DETAIL

CONCRETE RIP-RAP

WEEP HOLE DETAIL

PLACE METAL DETECTOR TAPE AT A MINIMUM OF 24" ABOVE TOP OF PIPE

PLACE METAL DETECTOR TAPE AT A MINIMUM OF 24" ABOVE TOP OF PIPE

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY

CONSTRUCTION.

CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.

PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO

A. SATISFACTORY SOILS MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAT TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (IE...YEARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.

NON-STRUCTURAL AREAS

B. BANK RUN SAND GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.

C. CEMENT STABILIZED SAND MATERIALS SHALL BE TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150 AND CLEAN DURABLE SAND MEETING GRADING REQUIREMENTS FOR FINE AGGREGATES OF ASTM C33. THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE). COMPACT MIX TO 95% OF ASTM D558 WITH A MOISTURE CONTENT BETWEEN -2% TO 2% ABOVE OPTIMUM.

D. PAVEMENT SUBGRADE REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

UTILITY CROSSING AREAS

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM

NOTES:

1. FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS

AREAS TO BE PAVED

FOR OPEN CUT STREETS. 2. ALL BEDDING & INSTALLATION OF HDPE PIPE SHALL BE IN

ACCORDANCE WITH ANSI/AWWA STANDARDS FOR HDPE PIPE

3. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING 4. RELATIVE COMPACTION SHALL BE TESTING IN THE PRESENCE OF THE

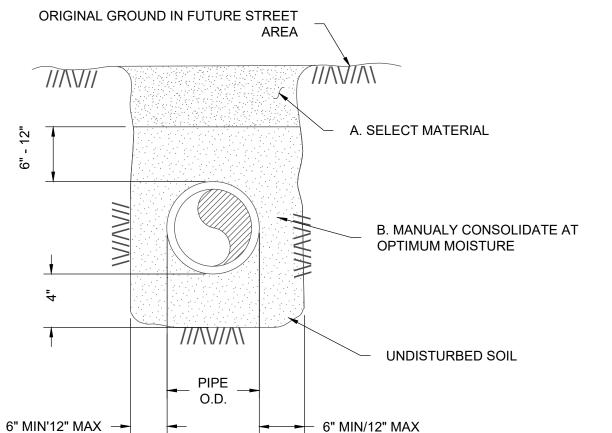
5. DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE

CONTROLLED BY THE CONTRACTOR 6. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY IN AREAS TO BE PAVED.

PROTECT ALL OPEN TRENCHES AT THE END OF EACH WORKING DAY. 7. HDPE LINES WITH WELDED JOINTS MAY BE BACKFILLED PRIOR TO TESTING

AT CONTRACTOR'S RISK.

8. INSTALL 6" OF CEMENT STABILIZED SAND BEDDING UNDER HDPE SANITARY SEWER PIPE.



ORIGINAL GROUND OR BOTTOM OF SUB-GRADE IN FUTURE STREET AREA A. SELECT MATERIAL A . A . A . A A A A A A A - C. CEMENT STABILIZED SAND B. MANUALLY CONSOLIDATE AT OPTIMUM MOISTURE UNDISTURBED SOIL PIPE O.D. 6" MIN/12" MAX 6" MIN/12" MAX →

BEDDING AND TRENCH FOR HDPE PIPE

OPTION NO.1

A. SELECT MATERIAL MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAT TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN

OPTIMUM TO +4% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (IE...YEARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.

B. GRANULAR MATERIAL

MATERIAL SHALL BE BANK RUN RIVER SAND WITH IS FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL AND WHICH, WHEN TESTED BY STANDARD LABORATORY METHODS, MEET THE FOLLOWING REQUIREMENTS: MAXIMUM LIQUID LIMIT MAXIMUM PLASTICITY INDEX MAXIMUM PERCENT PASSING NO 200 SIEVE MINIMUM PERCENT PASSING 3/4" SIEVE

THE MATERIAL SHALL BE FREE FLOWING AND WHEN WET,

SHALL NOT ADHERE TO FORM A BALL WHEN PRESSED IN THE

C. CEMENT STABILIZED SAND

GENERAL NOTES: ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM

OPTION NO. 2

1. FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS

FOR OPEN CUT STREETS. 2. ALL BEDDING & INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE WITH ANSI/AWWA STANDARDS FOR PVC PIPE

3. ALL BEDDING & INSTALLATION OF DUCTILE IRON PIPE SHALL BE IN

ACCORDANCE WITH ANSI/AWWA C150/A21.50 4. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING

5. RELATIVE COMPACTION SHALL BE TESTING IN THE PRESENCE OF THE CITY ENGINEER DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE

WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE CONTROLLED BY THE CONTRACTOR

7. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY

SEE "OPEN CUT DETAILS" ST4-01 & ST4-02

9. EVERY 100 FEET PROVIDE A WATER STOP BLOCK COMPOSED OF CEMENT SAND OR NATIVE MATERIAL DEPENDING ON EMBEDMENT. BLOCK SHALL BE 6 FEET IN LENGTH. NO BEDDING SAND IN THIS AREA

WATERSTOP SHALL BE G-SEAL BY GREENSTREAK, INC. EARTHSHIELD BY JP SPECIALTIES, INC. EB-CAP WATERSTOP BY WESTEC, OR APPROVED EQUAL

EXPANSION JOINT WATER STOP CAP (2 SIDED)

BEDDING AND TRENCH FOR DI PIPE & PVC PIPE WITH NON-STRUCTURAL OR NEW PAVED AREAS

RA AIL \geq 1642 \propto DETAILS ISSUE DATE: 02-08-2023 DRAWN BY: MK CHECKED BY: MK PROJECT #: 21-1472 REVISIONS

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DESCRIPTION

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CORPORATE OFFICE

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BRYAN, TEXAS 77803

1-877-GESSNER (437-7637) www.gessnerengineering.com

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LANDSCAPE CALCULATIONS:

1) 17% OF DEVELOPED AREA 1.41 ACRES (61,504 SQ FT) = 10,456 SF LANDSCAPING 2) NOT LESS THAN 50% OF REQUIRED AREA SHALL BE TREES; 5,228 SF REQ'D; 7,850 PROVIDED 3) NOT LESS THAN 50% OF TREE PLANTED SHALL BE CANOPY; 2,614 SF REQ'D; 7,250 PROVIDED 4) ALL PARKING ISLANDS MUST HAVE A CANOPY TREE. (1 ISLAND W UTILITY CONFLICT)

> TOTAL AREA REQUIRED: 10,456 SF LANDSCAPED AREA PROVIDED: 10.568 SF

** AUTOMATIC IRRIGATION IS REQUIRED FOR THIS PROJECT**

TREES	QTY	COMMON / BOTANICAL NAME	CONT	CAL	DESCRIPTION	SF VALUE	TOTAL
•	13	MONTEREY OAK QUERCUS POLYMORPHA 'MONTEREY'	65 GAL	3.5" CAL	10`-12`H, 6` CLEAR TRUNK	250 SF	3,250 SF
	6	SHUMARD RED OAK QUERCUS SHUMARDII	65 GAL	3.5" CAL	10`-12` HT X 5`-6` W, 6` TRUNK HT	250 SF	1,500 SF
•	10	SOUTHERN LIVE OAK QUERCUS VIRGINIANA	65 GAL	3.5" CAL	10`-12`H X 5`-6`W	250 SF	2,500 SF
ORNAMENTAL TREES	QTY	COMMON / BOTANICAL NAME	CONT	CAL	DESCRIPTION		
Average of the second s	6	TEXAS MOUNTAIN LAUREL DERMATOPHYLLUM SECUNDIFLORUM	15 GAL	2" CAL	8`-10` H, MULTI-TRUNK	100 SF	600 SF
SHRUBS	QTY	COMMON / BOTANICAL NAME	SIZE	DESCRIPTION	SPACING		
₩	45	KNOCKOUT ROSE ROSA X `KNOCKOUT` TM	3 GAL	PER TNLA STANDARDS & SPECS	AS SHOWN	10 SF	450 SF
(16	TWISTLEAF YUCCA YUCCA RUPICOLA	3 GAL	PER TNLA STANDARDS & SPECS	AS SHOWN	10 SF	160 SF
GRASSES	QTY	COMMON / BOTANICAL NAME	SIZE	DESCRIPTION	SPACING		
*	54	LINDHEIMER'S MUHLY MUHLENBERGIA LINDHEIMERI	3 GAL	PER TNLA STANDARDS & SPECS	AS SHOWN	10 SF	540 SF
GROUND COVERS	QTY	COMMON / BOTANICAL NAME	CONT	DESCRIPTION			
ALL DISTURBED AREAS WITHIN LOC	29,712 SF 15% MAX	BERMUDA GRASS CYNODON DACTYLON	HYDROSEED	PER TNLA STANDARDS & SPECS	ALL DISTURBED AREAS WITHIN LOC	100	1,568 SF
	394 SF	SILVER PONYFOOT DICHONDRA ARGENTEA	1 GAL	PER TNLA STANDARDS & SPECS	24" O.C.		

LANDSCAPE NOTES:

- COMPLETE ALL LANDSCAPE PLANTING AND RELATED EARTHWORK INCLUDING ALL PRODUCTS, EQUIPMENT AND LABOR, FOR THE LANDSCAPE AREAS SHOWN ON THE DRAWING AND DESCRIBED IN THE SPECIFICATIONS.
- 2. ALL QUESTIONS SHOULD BE REFERRED TO THE PROJECT LANDSCAPE ARCHITECT.
- INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING & INSTALLATION
- QUANTITIES SHOWN FOR PLANT MATERIALS ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO THE GIVEN SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- BY BIDDING. THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS SATISFIED HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF THE WORK AND TO THE QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES INSOFAR AS THIS DATA IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF/ HERSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM/HER FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK AS DESCRIBED.
- INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
- 7. UNLESS SPECIFICALLY NOTED, INSTALL ALL MASSED PLANTING UTILIZING EQUILATERAL TRIANGULAR SPACING.
- 8. EVENLY APPLY 3" OF MULCH TO ALL CONTINUOUS PLANTING BEDS. MULCH TO BE TRANSPORTED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO ENSURE ALL SUBSURFACE IRRIGATION IS COMPLETELY COVERED BY MULCH.
- SUBSTITUTIONS OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT
- 10. PLANT MATERIAL AND LAYOUT MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 11. ALL IDENTIFICATION TAGS PROVIDED BY GROWERS AND PLACED ON TREES AND SHRUBS ARE TO REMAIN ON THE PLANTS THROUGH THE PUNCH-LIST INSPECTION. TAGS ARE TO BE REMOVED PRIOR TO FINAL ACCEPTANCE, OR UPON REQUEST OF THE PROJECT LANDSCAPE ARCHITECT.
- SEED MIX/SOLID SOD WILL BE APPLIED TO ALL CONSTRUCTION-DAMAGED GROUND SURFACES NOT OTHERWISE PLANTED. CONTRACTOR SHALL REVIEW RELATED CONSTRUCTION DRAWINGS FOR LIMITS OF CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH OTHER SITE CONTRACTORS TO DETERMINE ACTUAL AREAS OF SEEDING REQUIRED, INCLUDING AREAS DISTURBED BY UTILITY EXTENSIONS.
- 13. THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 8" OF PREPARED SOIL AND 3" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDED. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED AND DISPOSED OF OFF SITE. FOLLOWING EXCAVATION, PLACE PREPARED SOIL IN THESE PLANT BEDS. PREPARED SOIL SHALL CONSIST OF 5" IMPORTED "CHOCOLATE" LOAM TOPSOIL AND 3" ORGANIC COMPOST SOIL CONDITIONER (SUCH AS "LIVING EARTH TECHNOLOGIES", "BACK-TO-EARTH" OR OTHER APPROVED MANUFACTURER), THOROUGHLY BLENDED TOGETHER TO 20% MINIMUM ORGANIC CONTENT. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL TREES. CONTRACTOR SHALL SUBMIT PLANTING SOIL MATERIAL TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
- 14. ALL PLANTING BEDS INDICATED WILL BE IRRIGATED WITH UNDERGROUND AUTOMATIC IRRIGATION. IRRIGATION CONTRACTOR IS TO BE A STATE OF TEXAS LICENSED IRRIGATOR, AND SHALL FOLLOW ALL TCEQ CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM INCLUDING PIPE SIZES AND LOCATIONS.
- 15. ALL SEEDING AREAS DISTURBED BY CONSTRUCTION SHALL BE TEMPORARILY IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE. PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- 16. REGULAR MAINTENANCE IS REQUIRED OF ALL LANDSCAPE AREAS AND PLANT MATERIALS IN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PEST WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE, IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE PROJECT LANDSCAPE ARCHITECT.
- 17. THE OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS. SAID AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPERARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. ALL PLANTING BEDS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY AND WATERED AS NECESSARY TO ENSURE CONTINUOUS HEALTHY GROWTH AND DEVELOPMENT. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE ORDINANCE.
- 18. NO TOPSOIL SHALL BE PLACED UNTIL SUBGRADE IS APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO FURNISH AND SPREAD TOPSOIL ON LAWN AREAS TO A DEPTH OF FOUR INCHES. WORK TOPSOIL TO A SMOOTH UNIFORM SURFACE AND COMPACT FIRMLY. FEATHER TOPSOIL INTO UNDISTURBED AREAS CREATING A SMOOTH. EVEN TRANSITION. SPREAD ADDITIONAL TOPSOIL IN UNDISTURBED AREAS TO ELIMINATE WATER PONDING. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED FROM TURF AREAS AND DISPOSED OF OFF SITE.
- 19. NO CUTTING, FILLING, TRENCHING, ROOT DISTURBANCE, SOIL DISTURBANCE, OR CONSTRUCTION IMPACTS SHALL OCCUR TO THE TRUNK WITHIN THE CRITICAL ROOT ZONE UNLESS DONE BY HAND.
- 20. FROM APRIL 1 TO SEPTEMBER 30. ONLY CONTAINER GROWN TREES MAY BE PLANTED. FROM OCTOBER 1 TO MARCH 31, EITHER CONTAINER GROWN OR BALL AND BURLAPPED TREES MAY BE PLANTED.

LANDSCAPE MAINTENANCE NOTES:

PROPERTY LANDSCAPING SHALL BE MAINTAINED AT ALL TIMES. THE QUALITY OF THE LANDSCAPE MAINTENANCE SHALL MEET STANDARDS OF PERFORMANCE PROVIDED BY LANDSCAPE COMPANIES IN THE REGION. LANDSCAPE AREAS WILL AT ALL TIMES HAVE A NEAT, CLEAN, HEALTHY, MANICURED APPEARANCE

1. TURF AREAS

- A. MOWING & EDGING OF ALL TURF AREAS SHALL BE PERFORMED AT LEAST ONCE PER WEEK.
- B. PERENNIAL GRASS OVERSEEDING SHALL BE SEPARATE & MUST BE APPROVED BY THE OWNER PRIOR TO START. OVERSEEDING SHALL BE SPREAD AT A RATE TO INSURE A LUSH, THICK CONSISTENT WINTER TURF. TRIMMING & EDGING OF TURF AREAS TO BE PERFORMED EACH VISIT.
- C. ALL TURF AREAS ARE TO BE FERTILIZED A MINIMUM OF FOUR TIMES PER YEAR W/ A HIGH QUALITY. SLOW RELEASE FERTILIZER FROM A REPUTABLE MANUFACTURER.
- D. CONTRACTOR SHALL APPLY APPROPRIATE FUNGICIDES AS NECESSARY & PRE-EMERGENT HERBICIDE TWO TIMES PER YEAR & POST-EMERGENT HERBICIDE AT THE TIME DEEMED MOST EFFICIENT & FAVORABLE BY CONTRACTOR.
- TURF TO BE TREATED AS NECESSARY W/ APPROPRIATE INSECTICIDE TO CONTROL SOIL PESTS F. RAKING TO BE PERFORMED AS NEEDED TO MAINTAIN APPEARANCE. DE-THATCH & AERATE TURF ONCE DURING THE YEAR IN CONJUNCTION W/ RYE OVERSEEDING. IF OWNER OPTS TO NOT PERFORM OVERSEED, DE-THATCHING & AERATING TO BE PERFORMED IN EARLY SPRING.
- G. BAG ALL AREAS WITHIN 45 FEET OF BUILDINGS, DRIVEWAYS, & SIDEWALKS.

2. SHRUBS, GROUND COVER, BEDS & ANNUALS

- A. TO BE MAINTAINED WEED FREE, AS NEEDED USING APPROPRIATE HERBICIDES & MANUAL WEEDING USE A MINIMUM OF TWO PRE-EMERGENT APPLICATIONS & MANUALLY WEED EACH VISIT.
- B. TO BE FERTILIZED FOUR TIMES PER YEAR W/ A BALANCED HIGH QUALITY, SLOW RELEASE FERTILIZER, APPROPRIATE TO THE SHRUBS ON THE PROJECT
- C. SHRUBBERY TO BE HAND TRIMMED AS SPECIFIED TO MAINTAIN A MANICURED APPEARANCE OR AS OTHERWISE REQUESTED BY OWNER. USE ONLY SKILLED PERSONNEL W/ SIGNIFICANT EXPERIENCE IN CLASS A PROPERTIES. NO SHEARING, ALL TO BE DONE W/ SELECTIVE HAND PRUNING TO KEEP PLANT WITHIN BOUNDS BUT TO MAINTAIN A NATURAL SHAPE & APPEARANCE.
- D. TO BE INSPECTED WEEKLY BY QUALIFIED SUPERVISOR. FOLLOWED BY A WRITTEN REPORT OF PROBLEMS DISCOVERED & ACTIONS TO BE TAKEN.
- AREAS TO BE SPRAYED W/ APPROPRIATE INSECTICIDES & FUNGICIDES. AS NECESSARY. F. ANNUALS TO BE CHANGED OUT FOUR (4) TIMES PER YEAR USING FOUR (4) INCH POTS & FERTILIZED AT EACH CHANGE. MONITOR & APPLY FUNGICIDES & INSECTICIDES TO INSURE MAXIMUM VIGOR.
- G. APPLY SHREDDED HARDWOOD MULCH TO A DEPTH OF TWO INCHES, A MINIMUM OF THREE TIMES ANNUALLY. IF MULCH DEPTH ACCUMULATION BECOMES SO EXCESSIVE AS TO BE DETRIMENTAL TO PLANT HEALTH, RAKE OUT & DISPOSE OF EXCESS QUANTITIES OF THE OLDEST MATERIAL, OFF-SITE.
- H. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE & CLEAR FROM ALL BUSHES/SHRUBS, ETC I. A THREE-FOOT PERIMETER AROUND ALL FIRE HYDRANTS SHALL BE MAINTAINED

3. LANDSCAPE TREES (4" CALIPER OR LESS)

- A. TO BE LIGHTLY PRUNED AS NECESSARY (AT LEAST ONCE A MONTH DURING GROWING SEASON). B. TO BE PRUNED & SHAPED ONCE DURING WINTER MONTHS. PRUNE TO CLASS I STANDARDS. NOTIFY MANAGEMENT PRIOR TO & IMMEDIATELY FOLLOWING PRUNING ACTIVITY. PRUNING TO BE DONE BY
- QUALIFIED TREE CARE FIRM, SUBJECT TO MANAGEMENT APPROVAL. C. DEEP ROOT FERTILIZE ALL LANDSCAPE TREES ONE TIME PER YEAR. SUBMIT INFORMATION ON MATERIALS, APPLICATION METHODS & APPLICATOR QUALIFICATION ONE WEEK PRIOR TO PERFORMING WORK TO OWNER'S REPRESENTATIVE.
- D. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES

4.LARGE TREES (GREATER THAN 4" CALIPER)

- A. CONTRACTOR SHALL INSPECT FOR INSECT, DISEASE INFESTATIONS & TREE DAMAGE SUCH AS LIGHTNING OR VEHICULAR DAMAGE. CONTRACTOR SHALL NOTIFY MANAGEMENT IMMEDIATELY OF SUCH DANGER OR DISEASE SO THAT CORRECTIVE ACTION CAN BE TAKEN.
- B. WHEN PRUNING IS REQUIRED TO REMOVE DEAD OR DAMAGED LIMBS, WORK IS TO BE DONE BY QUALIFIED TREE CARE FIRM. MANAGEMENT APPROVAL IS REQUIRED PRIOR TO PRUNING.
- C. ANY FERTILIZING RECOMMENDED BY QUALIFIED TREE CARE FIRM IS SUBJECT TO APPROVAL.
- D. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES

5. DEBRIS & LITTER

- A. NORMAL TRASH & LITTER WILL BE REMOVED FROM ALL LAWN & LANDSCAPED AREAS WEEKLY B. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
- 6. PAVED AREAS A. AT PARKING LOT PERIMETERS & PAVING JOINTS. WEEDS & GRASSES ARE TO BE CONTROLLED W/
- CONTACT HERBICIDE SPRAYS & MANUAL WEEDING AS REQUIRED.
- B. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.

7. IRRIGATION

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING & OPERATING ALL IRRIGATION SYSTEMS AT THE PROPERTY EXCEPT AS MAY BE OTHERWISE NOTED.
- B. IRRIGATION SYSTEMS MUST BE INSPECTED MONTHLY & A REPORT MUST BE SUBMITTED TO
- MANAGEMENT. MANAGEMENT MUST APPROVE REPAIRS GREATER THAN \$250.00.
- C. CONTRACTOR WILL ENSURE THAT WATERING CYCLES ARE IN COMPLIANCE W/ ANY CITY GUIDELINES AS A RESULT OF WATER RATIONING OR WATER CONSERVATION. ANY FEES OR PENALTIES INCURRED BY VIOLATION OF ORDINANCES WILL BE BILLED TO CONTRACTOR.
- D. ALL HEADS & NOZZLES BROKEN BY LANDSCAPE MAINTENANCE OPERATIONS WILL BE REPAIRED OR REPLACED AT CONTRACTOR EXPENSE, ALL NOZZLES WILL BE CLEANED MONTHLY IF NECESSARY, & ALL HEADS WILL BE ADJUSTED AS NEEDED.

8. GENERAL

- CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION TO ASSURE THAT ALL WORK WILL BE DONE IN ACCORDANCE W/ THIS AGREEMENT & GENERALLY ACCEPTED GOOD PRACTICE. A WEEKLY VISIT BY A QUALIFIED SUPERVISOR IS A MINIMUM REQUIREMENT. ADEQUATE TIME SHALL BE ALLOWED FOR A THOROUGH & COMPLETE EXAMINATION OF THE ENTIRE PROPERTY.
- B. CONTRACTOR SHALL REPLACE AT CONTRACTOR'S EXPENSE ANY PLANT MATERIAL THAT DIES DUE
- TO DAMAGE BY LAWN MAINTENANCE, EQUIPMENT OR CONTRACTOR'S NEGLIGENCE. C. ALL WORK SHALL BE PERFORMED BY CONTRACTOR'S EMPLOYEES; NO WORK SHALL BE
- PERFORMED BY SUBCONTRACTORS WITHOUT WRITTEN CONSENT OF MANAGEMENT.
- D. EMPLOYEES TO WEAR UNIFORMS & PROVIDE NEAT APPEARANCE & PROFESSIONAL BEHAVIOR.
- E. CREW MEMBERS WILL OBSERVE ALL OSHA REGULATIONS. ALL EQUIPMENT WILL BE PROPERLY MAINTAINED & KEPT IN A SAFE OPERATING CONDITION.
- F. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE IMMEDIATELY CLEANED UP

SITE DEVELOPMENT PERMIT

REMOVED FROM SITE. USE OF AN ON-SITE DUMPSTER IS PROHIBITED G. ADDITIONAL PROJECTS, LANDSCAPE UPGRADES, ETC. WILL BE NEGOTIATED AS NEEDED. H. POTS OR SIDEWALK PLANTERS AT PROPERTY SHALL BE MAINTAINED IN ACCORDANCE W/ ALL

SPECS NOTED ABOVE. IRRIGATION SHALL BE MAINTAINED OR HAND WATER AS NEEDED. SUBMISSIONS | REVISIONS:

Registration Law, Texas Civil Statutes, Article 249c.

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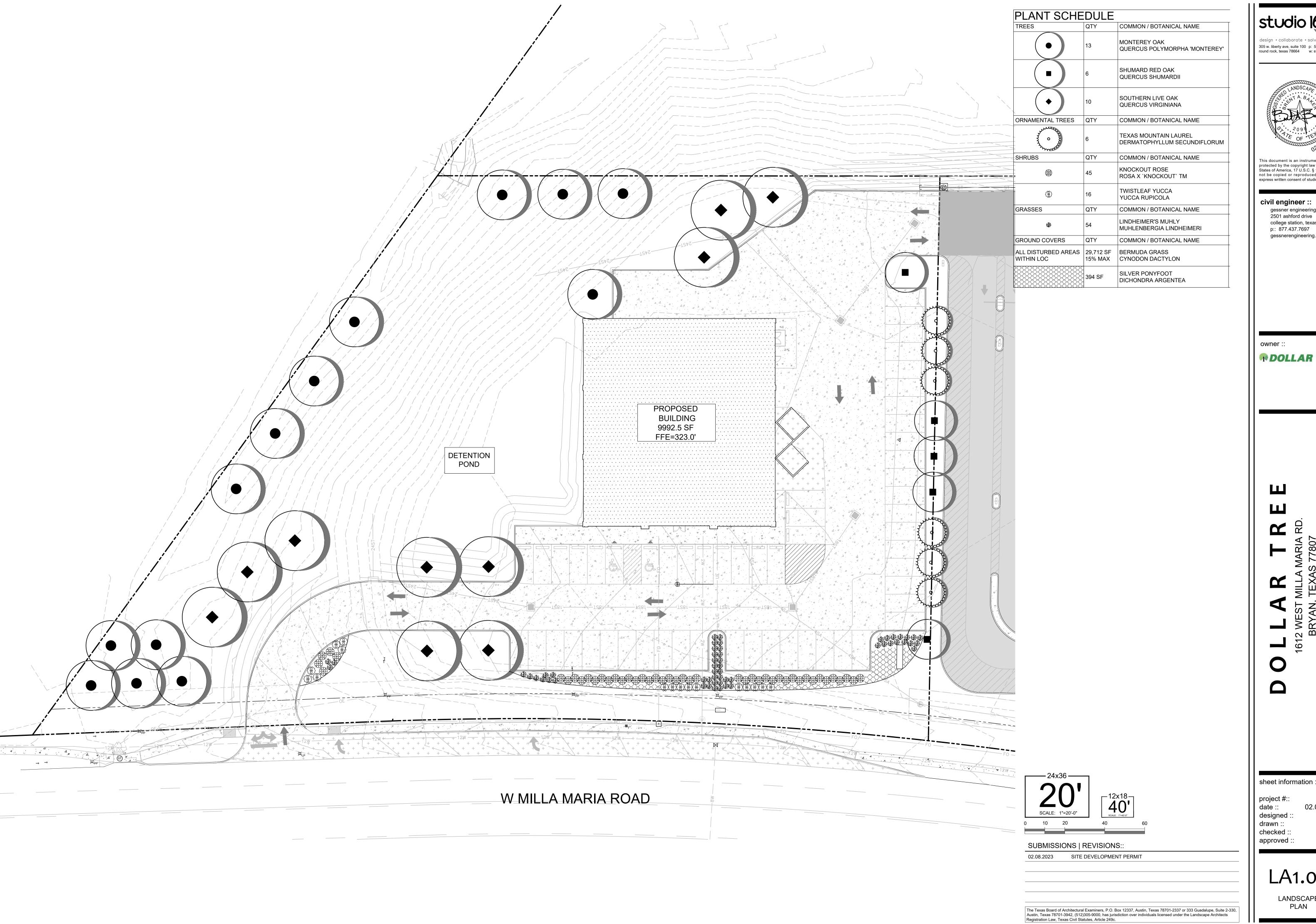
POLLAR TREE

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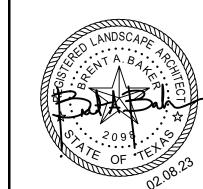
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LANDSCAPE NOTES/ SCHEDULE/ CALCULATIONS



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POOLLAR TREE

project #:: designed : checked ::

LANDSCAPE

LOOP SHALL BE 3X THE DIAMETER OF TRUNK IN ORDER TO PREVENT SCARING, CUTTING, GIRDLING,

3 APPROVED TREE TIE SYSTEM (SEE NOTES)

NEVER CUT LEADER-THIN UP TO 1/3 OF BRANCHES 10 RETAINING NATURAL SHAPE OF TREE - DO NOT

(11) APPROVED TIE SYSTEM ABOVE THE FIRST BRANCH

12) STAKE ALL TREES USING METAL STAKES-3 PER TREE

DO NOT BREAK ROOT BALL. IF ROOT BALL (13) IS BROKEN PLANT WILL BE REJECTED. REMOVE BURLAP FROM TOP OF ROOT BALL

17) 50% EXCAVATED SOIL AND 50% PLANTING SOIL MIX

SCALE: NTS

CONTRACTOR TO LEAVE 6" MIN. ROOT FLAIR UNCOVERED BY MULCH, SOIL, AND PLANTING MIX

NEVER CUT LEADER - THIN UP TO 1/3 OF BRANCHES 3 RETAINING NATURAL SHAPE OF TREE - DO NOT

(4) ATTACH GUY WIRE & HOSE ABOVE FIRST BRANCH.

5 STAKE ALL TREES USING METAL STAKES-3 PER TREE

DO NOT BREAK ROOT BALL. IF ROOT BALL IS BROKEN

9 4" HT. SAUCER AROUND PLANTING PIT

HEAVY DUTY, METAL STAKE TO BE MINIMUM 8'-0" 12 LONG STAKE TO BE 18" BELOW PIT IN UNDISTURBED

LACE HOSE GUARDS TOGETHER WITH SINGLE WIRE STAY

SCALE: NTS

3" MULCH AS SPECIFIED, SUBSURFACE IRRIGATION TO BE COMPLETELY COVERED BY MULCH

6 8" DEPTH PLANTING SOIL MIX AS SPECIFIED THIS

GEOTEXTILE FABRIC TO MEET TYPAR 3301 MIN. SPECIFICATIONS OR APPROVED EQUAL

SUBMISSIONS | REVISIONS::

Registration Law, Texas Civil Statutes, Article 249c.

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POLLAR TREE

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LANDSCAPE **DETAILS**

3"MIN