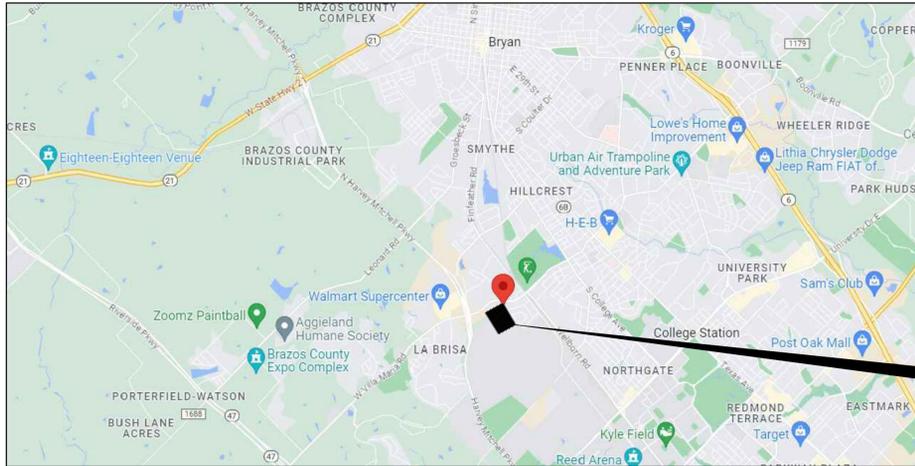
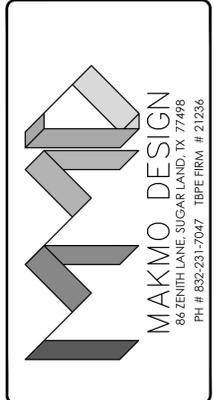


PROPOSED "CONVENIENCE STORE & GAS STATION"

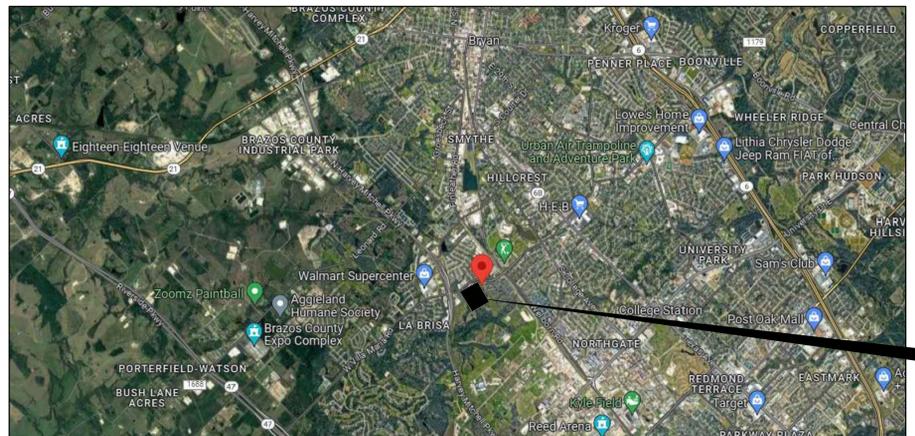
LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

ISSUE FOR:
FOR INTER REVIEW ONLY
BID ONLY
PERMITS SET
CONSTRUCTION SET

REVISIONS:		
NO.	DATE	DESCRIPTION



VICINITY MAP
N.T.S



PROJECT LOCATION
N.T.S

PROJECT DESCRIPTION

PROJECT NAME : PROPOSED C-STORE & GAS STATION
 LOCATION : 1001 W VILLA MARIA RD, BRYAN, TX 77801
 PROJECT DESCRIPTION : A GROUND UP CONSTRUCTION OF A ONE STORY C-STORE BUILDINGS 7,136 SQ.FT

SHEET INDEX

- CIVIL
- C-0.0 COVER SHEET
 - C-0.1 TOPOGRAPHIC SURVEY
 - C-1.0 SITE PLAN
 - C-2.0 GRADING PLAN
 - C-2.1 DRAINAGE PLAN
 - C-2.2 DRAINAGE CALCULATIONS
 - C-2.3 SITE SECTION
 - C-3.0 EROSION AND SEDIMENT CONTROL PLAN
 - C-4.0 UTILITY PLAN
 - C-5.0 PAVING PLAN
 - C-6.0 SITE DETAILS
 - C-6.1 CONSTRUCTION DETAILS
 - C-6.2 SWPPP DETAILS
 - L-100 LANDSCAPE PLAN

DEVELOPMENT AREA	
TOTAL ACREAGE	= 2.43 ACRES
PROPOSED DEVELOPMENT	= 2.43 ACRES
TYPE OF DEVELOPMENT	= 1 STORY BUILDING

FLOOD PLAN INFORMATION			
F.I.R.M. NO.	48041C	PANEL	0215F
EFFECTIVE DATE	04-02-2014	ZONE	"X"
FLOOD INFORMATION PROVIDED HEREON IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE FLOOD INSURANCE RATE MAPS. THE INFORMATION SHOULD BE USED TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS. WE ARE NOT RESPONSIBLE FOR THE F.I.R.M.'S ACCURACY.			

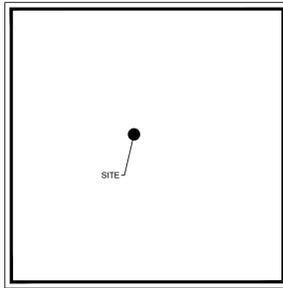
PROPOSED C STORE & GAS STATION
LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL :
DATE: 6/18/2025

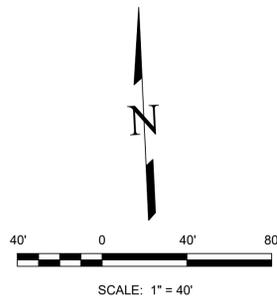
PROJECT NUMBER	23-000
SCALE	N/A
DRAWN BY	R.R
CHECKED BY	A.Z
SHEET TITLE	:

COVER SHEET

DRAWING NUMBER:
C-0.0



LOCATION MAP
NTS



TQVM LTD
LOT 18 BLOCK 18
CITED 2.942 ACRES
CASA MARIA SUBDIVISION
13462 / 005 ORBCT

LANA MARINA RENEE, DVM
WESTERN NATIONAL BANK SUBDIVISION
LOT 1 CITED 1.47 ACRES
7212 / 014 ORBCT

MOMIN MUSHTAQALI & ADIL R. MOMIN
WESTERN NATIONAL BANK SUBDIVISION
LOT 2 CITED 2.43 ACRES
16358 / 247 ORBCT

WINDHESTER PROPERTY MANAGEMENT, LLC
LOT 25 CITED 2.4 ACRES
9298 / 080 ORBCT

VILLAGEWEST SECTION 2 391 / 643 MRBCT

LEGEND

- ⊙ = CLEANOUT
- E = ELECTRIC METER
- GAS = GAS VALVE
- IRRIG = IRRIGATION CONTROL VALVE
- S = SANITARY MANHOLE
- U = UTILITY POLE
- ⌋ = SIGN
- TV = CABLE TV SERVICE PEDESTAL
- T = TELEPHONE PEDESTAL
- W = WATER METER
- WV = WATER VALVE
- = WOOD FENCE
- - - = CHAINLINK FENCE
- SS = SANITARY SEWER LINE
- = OVERHEAD ELECTRIC

L1 S 85°44'31" E 174.32'
PLAT CALL: S 83°03'54" E 174.32'

C1 RADIUS= 25.00'
ARC= 38.37'
Δ= 87°56'15"
PLAT CALL R= 25.00'

SURVEYOR'S CERTIFICATION:

To: MUSHTAQALI MOMIN & ADIL R. MOMIN AND/OR THEIR ASSIGNS:

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND BY ME OR UNDER MY DIRECT SUPERVISION OF THE PROPERTY SHOWN HEREON, THERE WERE NO ABOVEGROUND VISIBLE ENCROACHMENTS OBSERVED AT THIS TIME EXCEPT AS SHOWN HEREON AND THAT THIS PLAT CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PLAT SUBSTANTIALLY COMPLIES WITH REQUIREMENTS FOR A TEXAS SOCIETY OF PROFESSIONAL SURVEYORS' (TSPS) CATEGORY 6 TOPOGRAPHIC SURVEY AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO RULES OF PROCEDURES AND PRACTICES AS PROMULGATED BY THE TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

STEVEN RAY ESTES, RPLS
TEXAS REGISTRATION NO. 5631
FEBRUARY 1, 2023

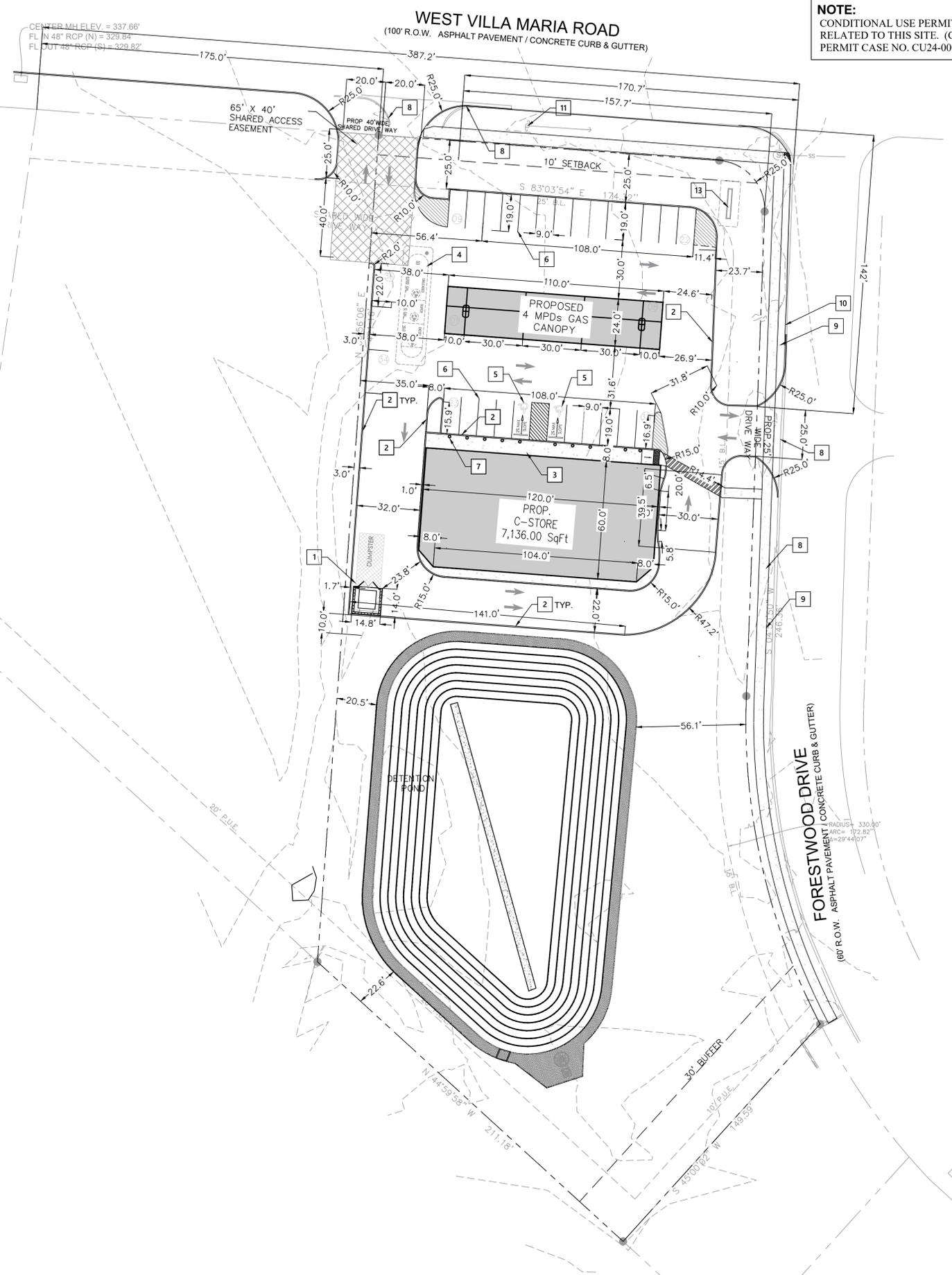
GENERAL SURVEY NOTES:

1. MONUMENTATION AS SHOWN.
 - 1/2" ROD FOUND
2. BASIS OF BEARINGS UTILIZED IS THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE 5376, NAD 83. BEARINGS & DISTANCES CITED HEREON ARE SHOWN AS FOUND OR MEASURED WITH THE RECORDED OR PUBLISHED BEARINGS & DISTANCES SHOWN AS REFERENCE.
3. FIELD SURVEY COMPLETED ON NOVEMBER 11, 2022.
4. THE PHYSICAL ADDRESS FOR THE PROPERTY SHOWN HEREON IS 1101 W VILLA MARIA ROAD, BRYAN, TEXAS, 77801.
5. ALL ABOVEGROUND PHYSICAL AND VISIBLE IMPROVEMENTS ARE SHOWN HEREON INCLUDING BUT NOT LIMITED TO FENCING, CONCRETE SIDEWALKS, POWER POLES, UTILITY METER BOXES OR VAULTS, CONCRETE DRIVEWAY APRONS AND BOLLARDS POSTS. THERE EXISTS A STAND OF MIXED HARDWOOD TREES IN THE LOWER SOUTHEAST PORTION OF THE TRACT; A TREE SURVEY WAS NOT A PART OF THIS SURVEY PRODUCT THEREFORE NO TREE SPECIMENS ARE SHOWN HEREON.
6. THIS PLAT SHALL NOT BE CONSTRUED TO REPRESENT A BOUNDARY SURVEY.
7. THE OFFICIAL PLAT FOR WESTERN NATIONAL BANK SUBDIVISION IS RECORDED UNDER CLERK'S FILE NO. 1982-223459, ORBCT OR VOL. 517, PG. 707, MRBCT.
8. ABOVEGROUND VISIBLE UTILITIES SHOWN HEREON ARE THE RESULT OF EVIDENCE COLLECTED AS PART OF AN ON-THE-GROUND SURVEY ONLY. NO UTILITY MAPS WERE PROVIDED BY ANY UTILITY COMPANY OR THE CITY OF BRYAN, NOR WAS A TEXAS 811 CALLED INITIATED. SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN HEREON COMPRISE ALL FEATURES ON THE SUBJECT TRACT, EITHER IN SERVICE OR ABANDONED.
9. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP PANEL NO. 48041C215F DATED APRIL 2, 2014 FOR THE CITY OF BRYAN, BRAZOS COUNTY, TEXAS, THE PROPERTY SHOWN HEREON APPEARS TO LIE WITHIN ZONE X, AN AREA OF MINIMAL FLOOD HAZARD. THIS DETERMINATION IS MADE UTILIZING PUBLISHED DIGITAL IMAGERY AND SCALING FROM AFORESAID FEMA MAP PRODUCTS. NO ELEVATION CERTIFICATE WAS PREPARED AT THE TIME OF THIS SURVEY.
10. ORBCT DENOTES OFFICIAL RECORDS OF BRAZOS COUNTY, TEXAS; P.O.B. DENOTES POINT OF BEGINNING; DRBCT DENOTES DEED RECORDS OF BRAZOS COUNTY, TEXAS; MRBCT DENOTES MAP RECORDS OF BRAZOS COUNTY, TEXAS.

PLAT SHOWING TSPS
CATEGORY 6 TOPOGRAPHIC SURVEY OF

LOT 2 OF WESTERN NATIONAL BANK SUBDIVISION
A CITED 2.429 ACRE TRACT OF LAND
SITUATED IN THE
ZENO PHILLIPS LEAGUE OR SURVEY, ABSTRACT NO. 45
BRYAN, BRAZOS COUNTY, TEXAS

	KCI TECHNOLOGIES, INC. 1555 GREENS PRAIRIE ROAD WEST COLLEGE STATION, TEXAS 77845 PHONE: 979.846.6212 KCI.COM REGISTRATION: ENG F-2214 & SURVEYING 10042800	DATE: FEBRUARY 1, 2023 JOB NO. 342210287 DESIGNED BY: DRAWN BY: LC CHECKED BY: SRE	SHEET 1
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NOTE:
CONDITIONAL USE PERMIT CASE NUMBER RELATED TO THIS SITE. (CONDITIONAL USE PERMIT CASE NO. CU24-000106)

- 1 TRASH ENCLOSURE SEE DETAIL ON SHEET C-6.0.
- 2 6" CONCRETE CURB SEE DETAIL ON SHEET C-6.0.
- 3 CONCRETE SIDEWALK SEE DETAIL ON SHEET C-6.0.
- 4 PROPOSED FUEL TANK BY OTHERS.
- 5 FOR ADA PARKING DETAIL AND SIGN REFER DETAIL ON SHEET C-5.0.
- 6 NEW PAVEMENT MARKING FOR PARKING SPACES
- 7 INSTALL NEW BOLLARDS. SEE DETAIL ON THIS SHEET.
- 8 REMOVE EX CURB
- 9 REMOVE EX DRIVEWAY.
- 10 NEW 6" CONCRETE CURB PER CITY OF BRYAN.
- 11 EX POWER POLE TO REMAIN. PROTECT IN PLACE.
- 13 PYLON SIGN, THE MAXIMUM SIGN HEIGHT 8' WITH 40 SF MAX. FOOTAGE. TO BE APPROVED BY OWNER

PARKING CALCULATION:-

CONVENIENCE STORE (TYPE M)	
CONVENIENT STORE: 7136.00 Sqft / 250	= 29
TOTAL PARKING REQUIRED	= 29
ADA PARKING PROVIDED	= 2
PUMP SPACES PROVIDED	= 8
PARKING PROVIDED	= 26
TOTAL PARKING PROVIDED	= 36

SIGNAGE NOTE:

- SINCE THE PROPERTY IN THE WEST VILLA MARIA CORRIDOR OVERLAY DISTRICT & ZONED C-2, THE MAXIMUM SIGN HEIGHT (NO MATTER THE LOCATION) WOULD BE 8 FEET.
- THE MAXIMUM SQUARE FOOTAGE WOULD BE 40 SQ.FT.
- SIGNAGE MAY NOT BE LOCATED WITHIN AN UTILITY OR RIGHT-OF-WAY EASEMENT.

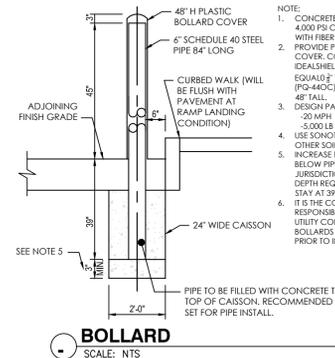
FLOODPLAIN INFORMATION
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NO. 48041C0215F, WITH THE EFFECTIVE DATE OF OCTOBER 16, 2014, THE PROPERTY IS LOCATED IN FLOOD ZONE 'X'. AREAS DETERMINED TO BE OUTSIDE OF THE REGULATED FLOODWAY. ALL FLOODPLAIN INFORMATION NOTED IN THE PLAN REFLECTS THE STATUS PER THE FEMA FIRM MAP THAT IS EFFECTIVE AT THE TIME THAT THE PLAN IS RECORDED. FLOODPLAIN AND FLOODWAY STATUS IS SUBJECT TO CHANGE AS FEMA FIRM MAPS ARE UPDATED.

- DIMENSION LAYOUT NOTES**
1. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION AND RESOLUTION OF DISCREPANCIES PRIOR TO PROCEEDING.
 2. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE ENGINEER FOR INSTRUCTION PRIOR TO COMMENCING WORK.
 3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE.
 4. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES.
 5. ALL DIMENSIONS ARE PERPENDICULAR TO FACE OF BUILDING, WALL OR OTHER FIXED SITE IMPROVEMENT AND DIMENSIONS AT CURB ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
 6. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.

EXPANSION JOINTS:
PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS OTHER STRUCTURES SUCH AS WALLS, CURBS, STEPS & BUILDINGS OR WHERE CONCRETE ABUTS EXISTING CONCRETE PAVING, UTILITY VAULTS, JUNCTION BOXES, ETC. EXPANSION JOINTS REQUIRED AT THESE STRUCTURES MAY NOT BE SHOWN ON THESE DRAWINGS BUT ARE CONSTRUCTION REQUIREMENT. SEE DETAILS FOR LOCATIONS THAT REQUIRE INSTALLATION OF DOWELS.

- GENERAL NOTES**
1. LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON RECORDS FROM SAID UTILITY COMPANIES AND ARE HORIZONTALLY FIELD LOCATED ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL LOCATION.
 2. CONTRACTOR TO UNCOVER AND MARK UTILITY LINES BEFORE CONSTRUCTION.
 3. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
 4. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
 5. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL WATER STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
 6. EXISTING UTILITIES TO REMAIN ARE TO BE ADJUSTED TO MATCH PROPOSED GRADE.
 7. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
 8. ALL AREAS WITHIN THE PAVED AREAS ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL. IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER, A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
 9. ALL AREAS NOT WITHIN THE PAVED AREA ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL. IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER, A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
 10. AFTER NEW INLETS ARE CONSTRUCTED, INSTALL INLET PROTECTION PER DETAIL.
 11. CONTRACTOR WILL CONTROL AND PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF AND SEDIMENT TO ADJACENT PROPERTY AND PUBLIC ROADS.
 12. CONTRACTOR IS TO PROTECT EXISTING STORM DRAINAGE SYSTEM.
 13. CONTRACTOR TO CONFORM TO ALL CONSTRUCTION STORM WATER AND EROSION CONTROL PERMITTING REQUIREMENTS BY "EPA PHASE II STORM WATER REGULATIONS" AS ADMINISTERED BY THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY. WHERE PERMITTING IS REQUIRED, A COPY OF THE NOTICE OF INTENT SHALL BE PROVIDED TO THE LOCAL MUNICIPAL AUTHORITY.
 14. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE TEXAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE CITY OF BRYAN PUBLIC WORKS (979-208-5800) AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
 15. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS AND PAVING TO ADA STANDARDS. VERIFY.
 16. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 17. EXCESS EXPORTS SHALL BE STOCKPILED AT LOCATION APPROVED BY OWNER AND CONFIRMED BY ENGINEER OF RECORD.

SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE



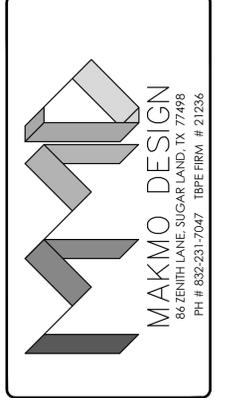
- NOTE:**
1. CONCRETE MUST BE MINIMUM 4000 PSI COMPRESSIVE STRENGTH WITH FIBER MESH.
 2. PROVIDE PLASTIC BOLLARD COVER. COVER TO BE IDEASHIELD (OR APPROVED EQUAL) 2" THICK, BROWN (PP-40C), 6" PIPE FT, DOMETOP, 48" TALL.
 3. DESIGN PARAMETERS:
-20 MPH
-5000 LB VEHICLE
 4. USE SONOTUBE IN SANDY OR OTHER SOILS THAT MIGHT CAVE IN.
 5. INCREASE DEPTH OF CAISSON BELOW PIPE TO MEET LOCAL JURISDICTION MINIMUM FROST DEPTH REQUIREMENT. PIPE CAN STAY AT 3" BELOW PAVEMENT.
 6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY NO UTILITY CONFLICTS EXIST WHERE BOLLARDS ARE TO BE INSTALLED. PRIOR TO INSTALLATION.



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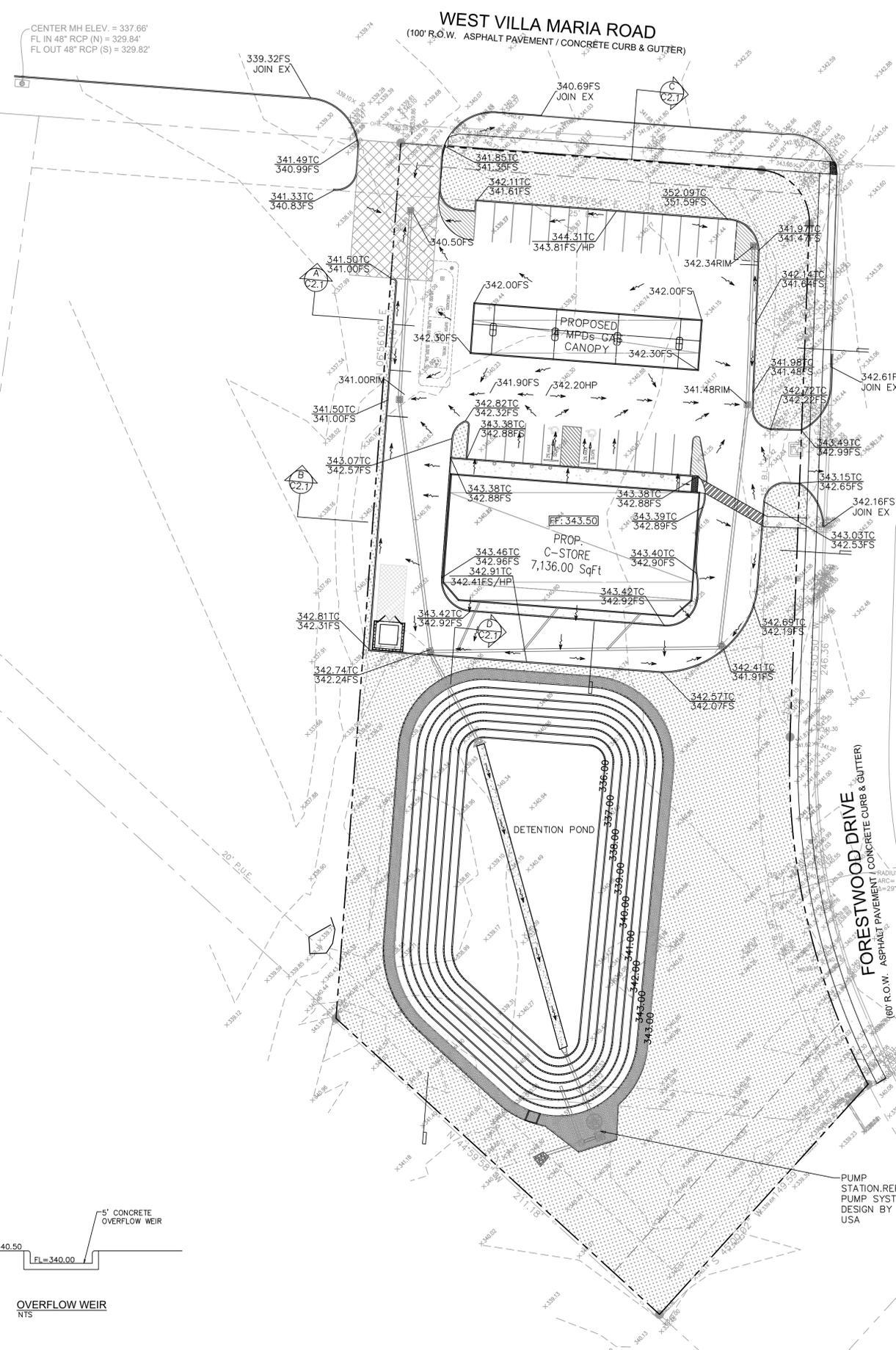
PROPOSED C STORE & GAS STATION
LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL:
DATE: 6/18/2025

PROJECT NUMBER 23-000
SCALE 1" = 30'
DRAWN BY R.R
CHECKED BY A.Z
SHEET TITLE :

SITE PLAN

DRAWING NUMBER:
C-1.0



LEGEND

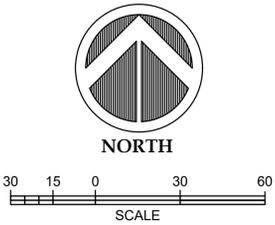
- PROPERTY LINE
- STORM DRAIN
- CATCH BASIN
- EX ELEVATIONS
- NEW ELEVATIONS
- SLOPE ARROW

FLOODPLAIN INFORMATION
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NO. 48041C0215F, WITH THE EFFECTIVE DATE OF OCTOBER 16, 2014, THE PROPERTY IS LOCATED IN FLOOD ZONE "X". AREAS DETERMINED TO BE OUTSIDE OF THE REGULATED FLOODWAY. ALL FLOODPLAIN INFORMATION NOTED IN THE PLAT REFLECTS THE STATUS PER THE FEMA FIRM MAP THAT IS EFFECTIVE AT THE TIME THAT THE PLAT IS RECORDED. FLOODPLAIN AND FLOODWAY STATUS IS SUBJECT TO CHANGE AS FEMA FIRM MAPS ARE UPDATED.

NOTE:
 A PROPERTY OWNER'S ASSOCIATION (POA) SHALL BE ESTABLISHED WITH DIRECT RESPONSIBILITY TO, AND CONTROLLED BY, THE PROPERTY OWNER(S) TO PROVIDE FOR THE OPERATION, REPAIR, AND MAINTENANCE OF THE PRIVATE STORMWATER DETENTION FACILITY AND ANY ASSOCIATED DRAINAGE IMPROVEMENTS ON-SITE. THE CITY OF BRYAN SHALL NOT BE RESPONSIBLE FOR ANY OPERATION, REPAIR, OR MAINTENANCE OF THESE FACILITIES.

- GRADING PLAN NOTES**
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THE PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THE PROJECT.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE OWNER PRIOR TO PLACEMENT.
 - IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
 - CONSTRUCTION, REVIEW, INSPECTION, AND OBSERVATION OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED AS A REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, OR NEAR THE CONSTRUCTION SITE.
 - THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL PERMITS FROM AUTHORITIES AND REGULATORY AGENCIES HAVING JURISDICTION OVER THIS SITE, AS REQUIRED, PRIOR TO BEGINNING WORK.
 - BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL PLAN AND/OR PERMIT.
 - THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
 - TRAFFIC MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING EARTH MOVING OPERATIONS.
 - DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
 - PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION.
 - DO NOT CONDUCT WORK ON ADJOINING PROPERTY UNLESS DIRECTED BY ENGINEER.
 - DO NOT COMMENCE EARTH-MOVING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES ARE IN PLACE.
 - INSTALL DETECTABLE WARNING TAPE ABOVE CONSTRUCTED UTILITIES. DETECTABLE WARNING TAPE IS DEFINED AS: ACID- AND ALKALI-RESISTANT, POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES. A MINIMUM OF 6 INCHES WIDE AND 4 MILS THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY, WITH METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE BY METAL DETECTOR WHEN TAPE IS BURIED UP TO 30 INCHES DEEP. COLORED AS FOLLOWS:
 - RED: ELECTRIC.
 - YELLOW: GAS, OIL, STEAM, AND DANGEROUS MATERIALS.
 - ORANGE: TELEPHONE AND OTHER COMMUNICATIONS
 - BLUE: WATER SYSTEMS.
 - GREEN: SEWER SYSTEMS.
 - PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING OPERATIONS.
 - PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTH MOVING OPERATIONS.
 - PROTECT SUBGRADES AND FOUNDATION SOILS FROM FREEZING TEMPERATURES AND FROST. REMOVE TEMPORARY PROTECTION BEFORE PLACING SUBSEQUENT MATERIALS.
 - IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS.
 - EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
 - EXCAVATIONS FOR FOOTINGS AND FOUNDATIONS: DO NOT DISTURB BOTTOM OF EXCAVATION. EXCAVATE BY HAND TO FINAL GRADE JUST BEFORE PLACING CONCRETE REINFORCEMENT. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO RECEIVE OTHER WORK.
 - EXCAVATION FOR UNDERGROUND TANKS, BASINS, AND MECHANICAL OR ELECTRICAL UTILITY STRUCTURES: EXCAVATE TO ELEVATIONS AND DIMENSIONS INDICATED WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. DO NOT DISTURB BOTTOM OF EXCAVATIONS INTENDED AS BEARING SURFACES.
 - EXCAVATIONS AT EDGES OF TREE- AND PLANT-PROTECTION ZONES:
 - EXCAVATE BY HAND TO INDICATED LINES, CROSS SECTIONS, ELEVATIONS, AND SUBGRADES. USE NARROW-TINE SPADING FORKS TO COMB SOIL, AND EXPOSE ROOTS. DO NOT BREAK, TEAR, OR CHOP EXPOSED ROOTS. DO NOT USE MECHANICAL EQUIPMENT THAT RIPS, TEARS, OR PULLS ROOTS.
 - GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
 - PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
 - CUT OUT SOFT SPOTS. FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
 - SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.

ROOF DRAIN NOTE:
 CONTRACTOR TO CONNECT ALL DOWNSPOUTS TO THE NEAREST UNDERGROUND STORM SEWER
 CONTRACTOR TO PROVIDE CONCRETE SPLASH BLOCK FOR EACH ROOF DRAIN NOT CONNECTED DIRECTLY TO STORM SEWER PIPING.



ISSUE FOR:
 FOR INTER REVIEW ONLY
 BID ONLY
 PERMITS SET
 CONSTRUCTION SET

REVISIONS:

NO.	DATE	DESCRIPTION



PROPOSED C STORE & GAS STATION
 LOCATED AT
 1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL
 DATE: 6/18/2025

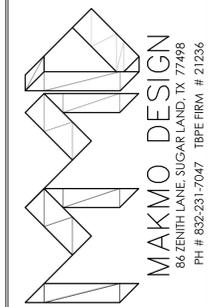
PROJECT NUMBER 23-000
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 DRAWN BY R.R.
 CHECKED BY A.Z.
 SHEET TITLE :

GRADING PLAN

DRAWING NUMBER:
C-2.0

ISSUE FOR:
 FOR INTER REVIEW ONLY
 BID ONLY
 PERMITS SET
 CONSTRUCTION SET

REVISIONS:		
NO.	DATE	DESCRIPTION



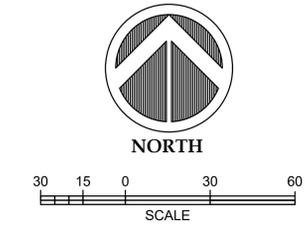
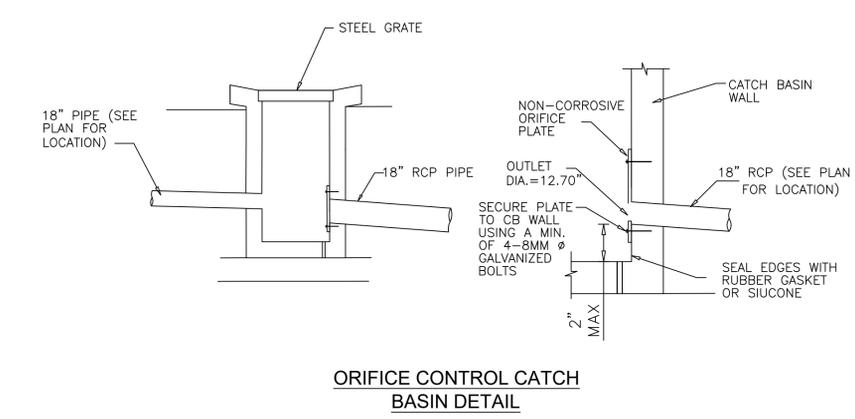
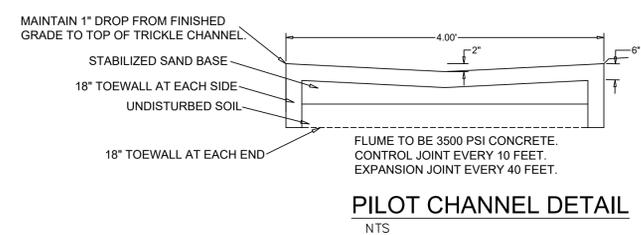
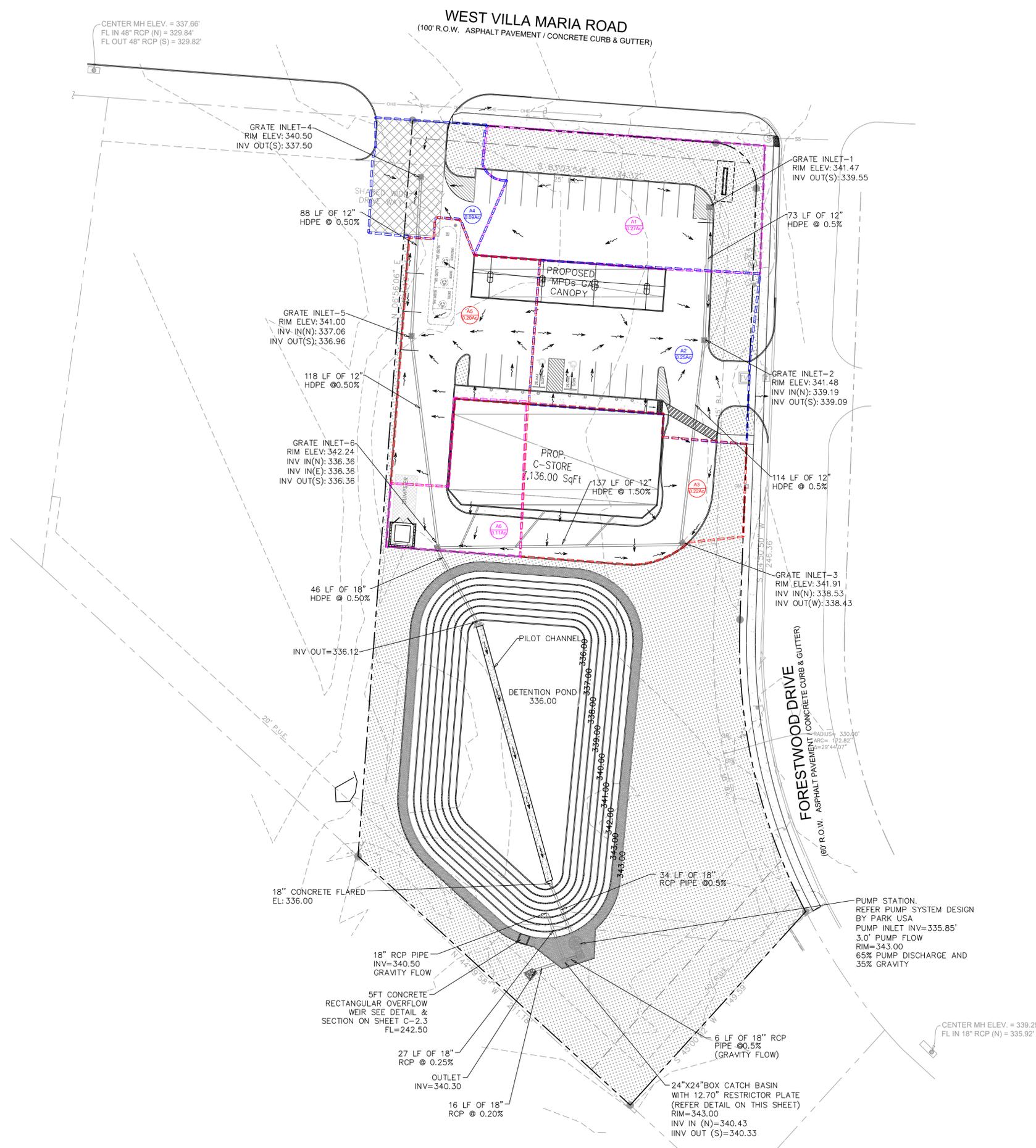
PROPOSED C STORE & GAS STATION
 LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

DATE: 6/18/2025

PROJECT NUMBER 23-000
 SCALE 1" = 30'
 DRAWN BY R.R
 CHECKED BY A.Z
 SHEET TITLE :

DRAINAGE PLAN

DRAWING NUMBER:
C-2.1



Pre-Development Condition									
Drainage Area:	2.43	Ac							
Weighted C:	0.3								
Time of Concentration:									
Flow Length:	250	ft							
Overland (Max 100 ft)									
Upstream Elev:	342.62		1.87						
Downstream Elev:	340.75								
Length	Slope	Mannings n	P2 (NOAA Atlas 14)	Tc (Mins)					
100	0.0187	0.15	4.23	8.754179983					
Shallow Concentrated									
Upstream Elev:	340.75								
Downstream Elev:	338.38								
Length	Slope	K	Tc (Mins)						
150	0.0158	16.13	1.233039808						
Channel Flow									
Length	Slope	Mannings n	Hydraulic Radius	Tc (Mins)					
0	0.005	0.013	0.3125	0					
Tc Total:									
				10	Mins				
Intensity2:	5.08								
Intensity10:	7.07								
Intensity25:	8.26								
Intensity100:	9.98								
Q(2):	3.70	CFS							
Q(10):	5.15	CFS							
Q(25):	6.02	CFS							
Q(100):	7.28	CFS							

Post-Development Condition									
Drainage Area:	2.43	Ac							
Weighted C:	0.59								
Time of Concentration:									
Flow Length:	453	ft							
Overland (Max 100 ft)									
Upstream Elev:	342.45								
Downstream Elev:	341.94								
Length	Slope	Mannings n	P2 (NOAA Atlas 14)	Tc (Mins)					
100	0.0051	0.013	4.23	2.08					
Shallow Concentrated									
Upstream Elev:	0								
Downstream Elev:	0								
Length	Slope	K	Tc (Mins)						
0	#DIV/0!	16.13	#DIV/0!						
Channel Flow									
Upstream Elev:	222.85								
Downstream Elev:	213.9								
Length	Slope	Mannings n	Hydraulic Radius	Tc (Mins)					
353	0.025354	0.013	0.3125	0.70004					
Tc Total:									
				3	Mins				
				5.00	Mins				
Intensity2:	6.37								
Intensity10:	8.84								
Intensity25:	10.30								
Intensity100:	12.40								
Q(2):	9.13	CFS							
Q(10):	12.67	CFS							
Q(25):	14.77	CFS							
Q(100):	17.78	CFS							

POST-DEV. RUNOFF COEFF.			
TOTAL CATCHMENT AREA	105,798	SQ. FT.	
CONCRETE	30,850	C=	0.9
ROOF	9,776	C=	0.75
LANDSCAPE	51,555	C=	0.3
POND	13,617	C=	0.0
COM. C	0.59		

INLET SIZING CALCULATOR	
GRATE INLET (TYPE 2)	
Grate Inlets (Type A-2) are considered to function as an orifice with a discharge coefficient of 0.60. The capacity of a grate inlet is based on the following equation:	
$Q = 4.82 A_g y^{0.5}$	
where:	
Q =	capacity in cubic feet per second
A _g =	clear opening area in square feet
y =	total depth of water or head on the inlet in feet.
A =	4 sqft
y =	0.5 ft
Q =	13.6 cfs

TOTAL STORAGE REQUIRED=81,446 CUFT
TOTAL STORAGE PROVIDED=1,06,076CUFT
(INCLUDING 10% EXTRA FOR SEDIMENTATION)

STORM SEWER CALCULATION FORM																							
PROJECT: 1001 W VILLA MARIA RD, BETAN, TX 77801										b	d	e	C										
DATE: MAY, 2024										86.311	10.7919	0.7141	0.65										
FOR 100YR RAINFALL FREQUENCY																							
AREA	MH OR INLET		AREA		REACH	T	I	"CI"	Q	GRADE	LINE			DESIGN	FLOWLINE			FRICTIO	HEAD	HGL UP	HGL DOWN		
	FROM	TO	INCR AC	TOTAL AC							FEET	MIN	IN/HR		IN	SIZE	AREA					"N"	R
A1	INLET 1	INLET 2	0.27	0.27	73	5.00	12.03	7.8195	2.09	0.50	12	0.7857	0.011	0.25	3.80	2.99	339.55	339.19	0.36	0.002471	0.1804	338.16	337.98
A2	INLET 2	INLET 3	0.25	0.52	114	23.92	6.86	4.4561	2.32	0.50	12	0.7857	0.011	0.25	3.80	2.99	339.09	338.53	0.56	0.003056	0.3484	337.98	337.63
A3	INLET 3	INLET 6	0.22	0.74	137	24.49	6.78	4.4039	3.28	1.50	12	0.7857	0.011	0.25	6.58	5.17	338.43	336.36	2.07	0.006081	0.8331	338.46	337.63
A4	INLET 4	INLET 5	0.09	0.09	88	21.54	7.21	4.6872	0.42	0.50	12	0.7857	0.011	0.25	3.80	2.99	337.50	337.06	0.44	0.000101	0.0089	337.63	337.62
A5	INLET 5	INLET 6	0.20	0.29	118	23.02	6.98	4.5000	1.30	0.50	12	0.7857	0.011	0.25	3.80	2.99	336.96	336.36	0.60	0.000954	0.1125	337.81	337.69
A6	INLET 6	OUTFALL	0.11	1.14	46	25.24	6.67	4.3866	4.96	0.50	18	1.7679	0.011	0.38	4.98	8.80	336.36	336.12	0.24	0.001599	0.0735	337.69	337.62
TAILWATER ELEV= 337.62																							

STORM SEWER CALCULATION FORM																							
PROJECT: 1001 W VILLA MARIA RD, BETAN, TX 77801										b	d	e	C										
DATE: MAY, 2024										76.3373	11.8888	0.7721	0.65										
FOR 10YR RAINFALL FREQUENCY																							
AREA	MH OR INLET		AREA		REACH	T	I	"CI"	Q	GRADE	LINE			DESIGN	FLOWLINE			FRICTIO	HEAD	HGL UP	HGL DOWN		
	FROM	TO	INCR AC	TOTAL AC							FEET	MIN	IN/HR		IN	SIZE	AREA					"N"	R
A1	INLET 1	INLET 2	0.27	0.27	73	22.93	4.92	3.2807	0.86	0.50	12	0.7857	0.011	0.25	3.80	2.99	339.55	339.19	0.36	0.000414	0.0302	336.93	336.90
A2	INLET 2	INLET 3	0.25	0.52	114	23.92	4.82	3.1322	1.63	0.50	12	0.7857	0.011	0.25	3.80	2.99	339.09	338.53	0.56	0.001510	0.1721	336.90	336.72
A3	INLET 3	INLET 6	0.22	0.74	137	24.49	4.76	3.0938	2.30	1.50	12	0.7857	0.011	0.25	6.58	5.17	338.43	336.36	2.07	0.003001	0.4112	337.14	336.72
A4	INLET 4	INLET 5	0.09	0.09	88	21.54	5.08	3.3025	0.30	0.50	12	0.7857	0.011	0.25	3.80	2.99	337.50	337.06	0.44	0.000050	0.0044	336.72	336.72
A5	INLET 5	INLET 6	0.20	0.29	118	23.02	4.91	3.1940	0.91	0.50	12	0.7857	0.011	0.25	3.80	2.99	336.96	336.36	0.60	0.000472	0.0557	336.81	336.76
A6	INLET 6	OUTFALL	0.11	1.14	46	25.24	4.69	3.0457	3.48	0.50	18	1.7679	0.011	0.38	4.98	8.80	336.36	336.12	0.24	0.000788	0.0362	336.76	336.72
TAILWATER ELEV= 336.72																							

Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 Sunday, 05 / 4 / 2025

Pond No. 1 - Detention pond

Pond Data

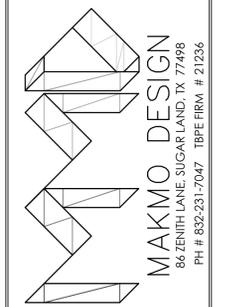
Contours -User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 336.00 ft

Stage / Storage Table				
Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	336.00	8,820	0	0
1.00	337.00	10,447	9,621	9,621
2.00	338.00	12,173	11,298	20,919
3.00	339.00	14,001	13,075	33,994
4.00	340.00	15,928	14,953	48,947
5.00	341.00	17,957	16,931	65,877
6.00	342.00	20,086	19,010	84,887
7.00	343.00	22,315	21,189	1,06,076

RESTRICTOR SIZING CALCULATIONS	
Q	= CA * (2gh) ^{0.5}
D	= Q1/2 / (2.25*h1/4)
C (COEFFICIENT OF DISCHARGE)	= 0.80
RESTRICTOR SIZING	
A = TOTAL DRAINAGE AREA	= 2.43 AC
Q1, (OUTFLOW RATE ALLOWED FOR LOW FLOW)	
	= 7.28 CFS
HEAD	= Ft
	= 1.67 Ft
CALCULATED RESTRICTOR SIZE	= Ft
	= 1.0549 Ft
	= 12.7 IN
PROVIDED RESTRICTOR SIZE	= 12.7 IN
ACTUAL OUTFLOW OF RESTRICTOR - 100 YR	= 7.28 CFS

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CONSTRUCTION SET

REVISIONS:	
NO.	DESCRIPTION



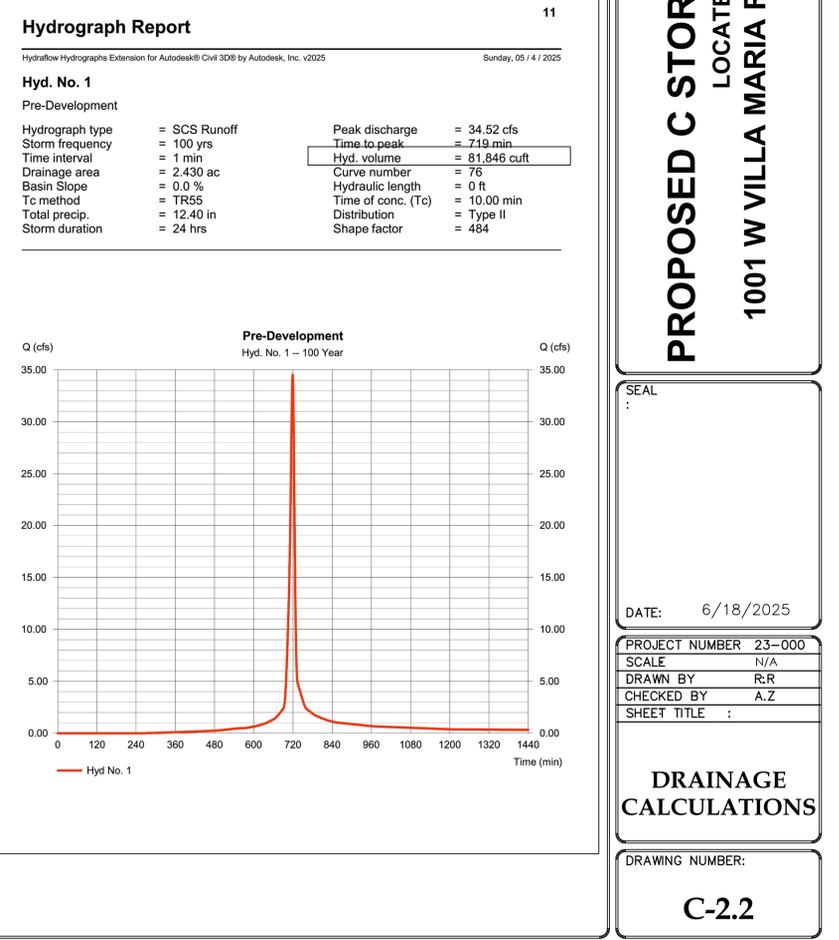
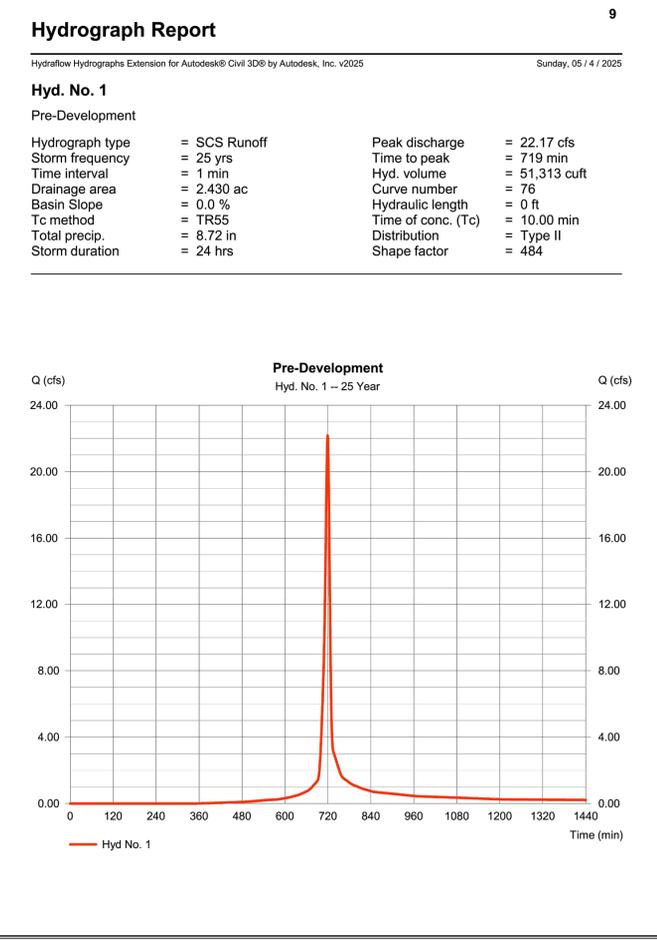
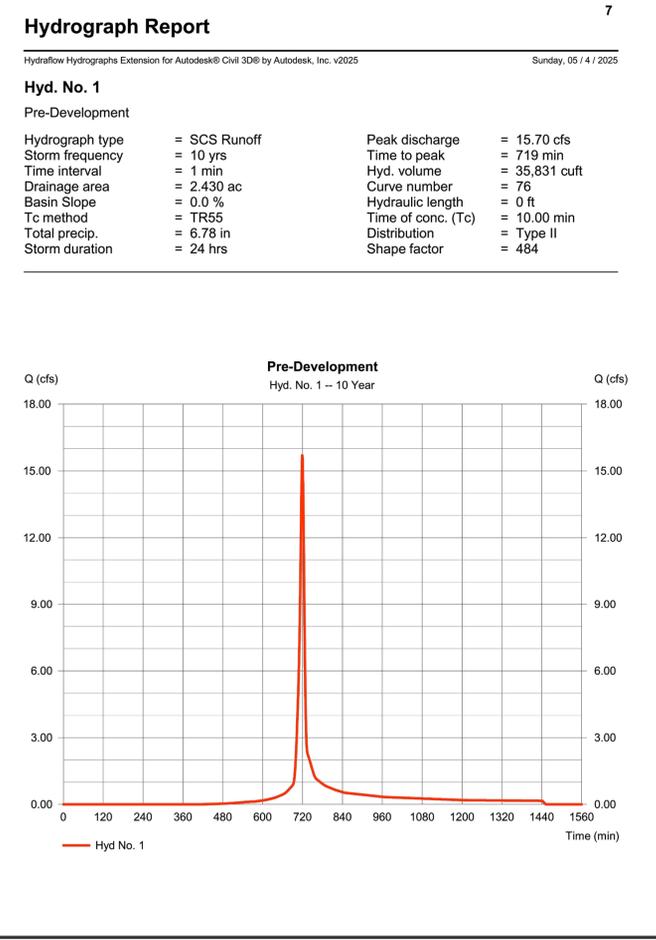
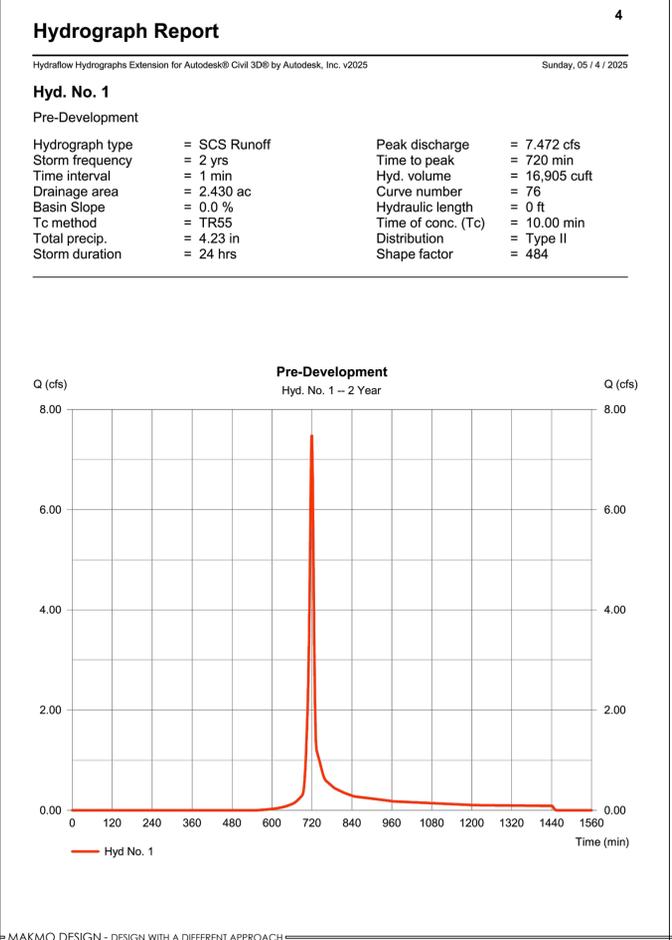
PROPOSED C STORE & GAS STATION
LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL:
DATE: 6/18/2025

PROJECT NUMBER 23-000
SCALE N/A
DRAWN BY R.R
CHECKED BY A.Z
SHEET TITLE :

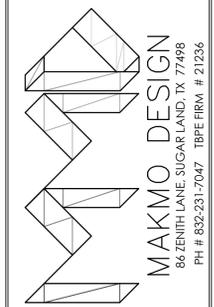
DRAINAGE CALCULATIONS

DRAWING NUMBER:
C-2.2



ISSUE FOR:
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 PERMITS SET
 CONSTRUCTION SET

REVISIONS:		
NO.	DATE	DESCRIPTION



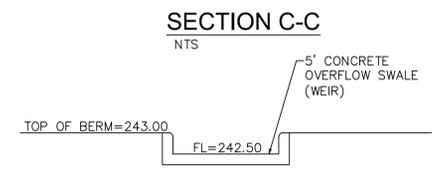
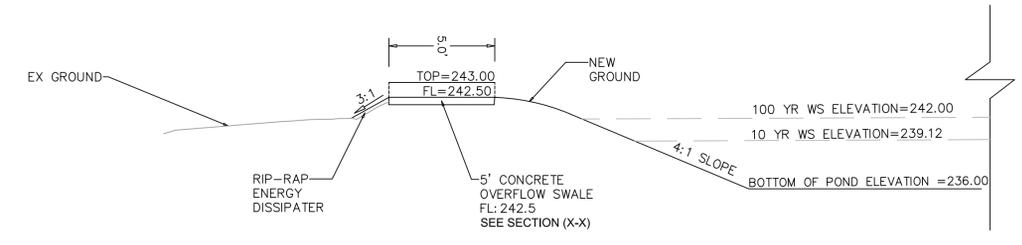
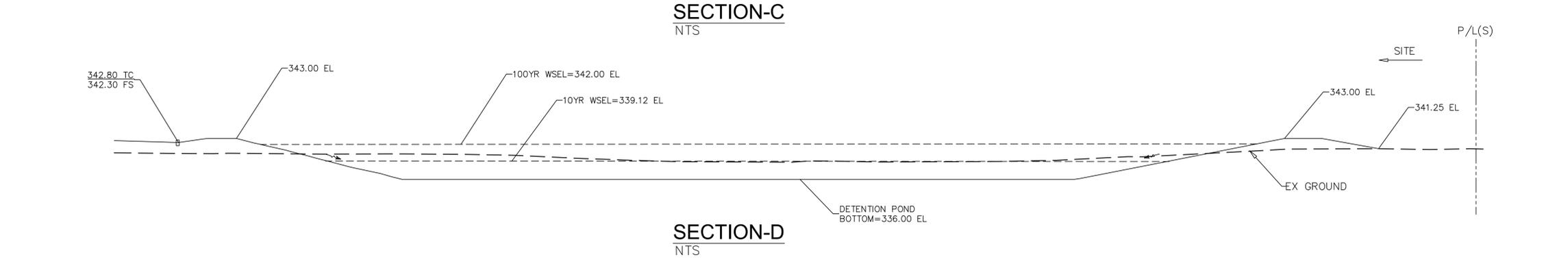
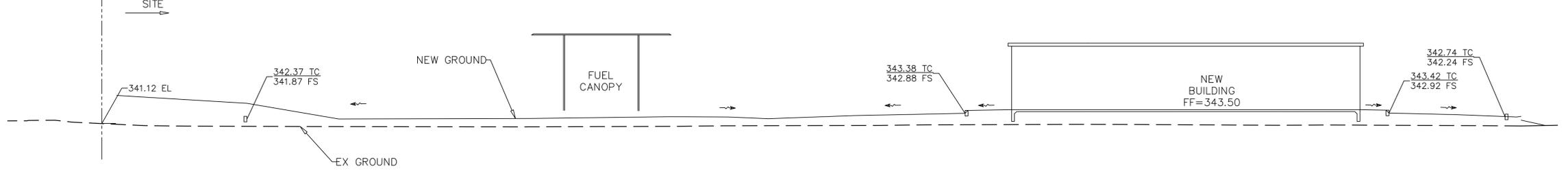
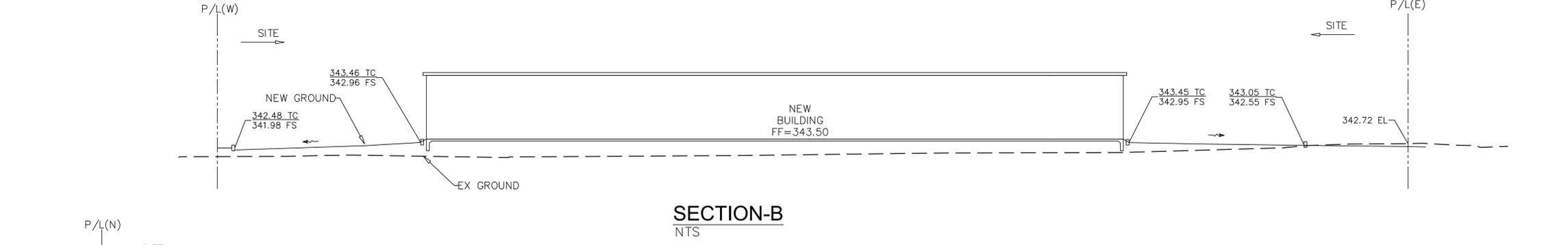
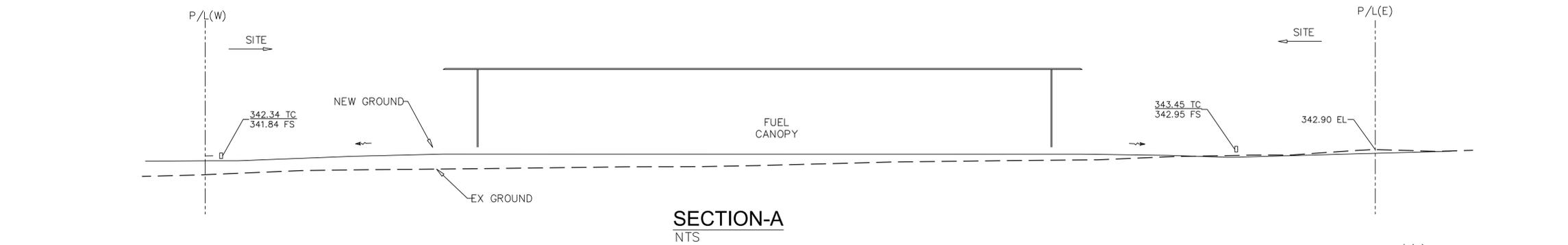
PROPOSED C STORE & GAS STATION
 LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL :
 DATE: 6/18/2025

PROJECT NUMBER 23-000
 SCALE
 DRAWN BY R.R
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 SHEET TITLE :

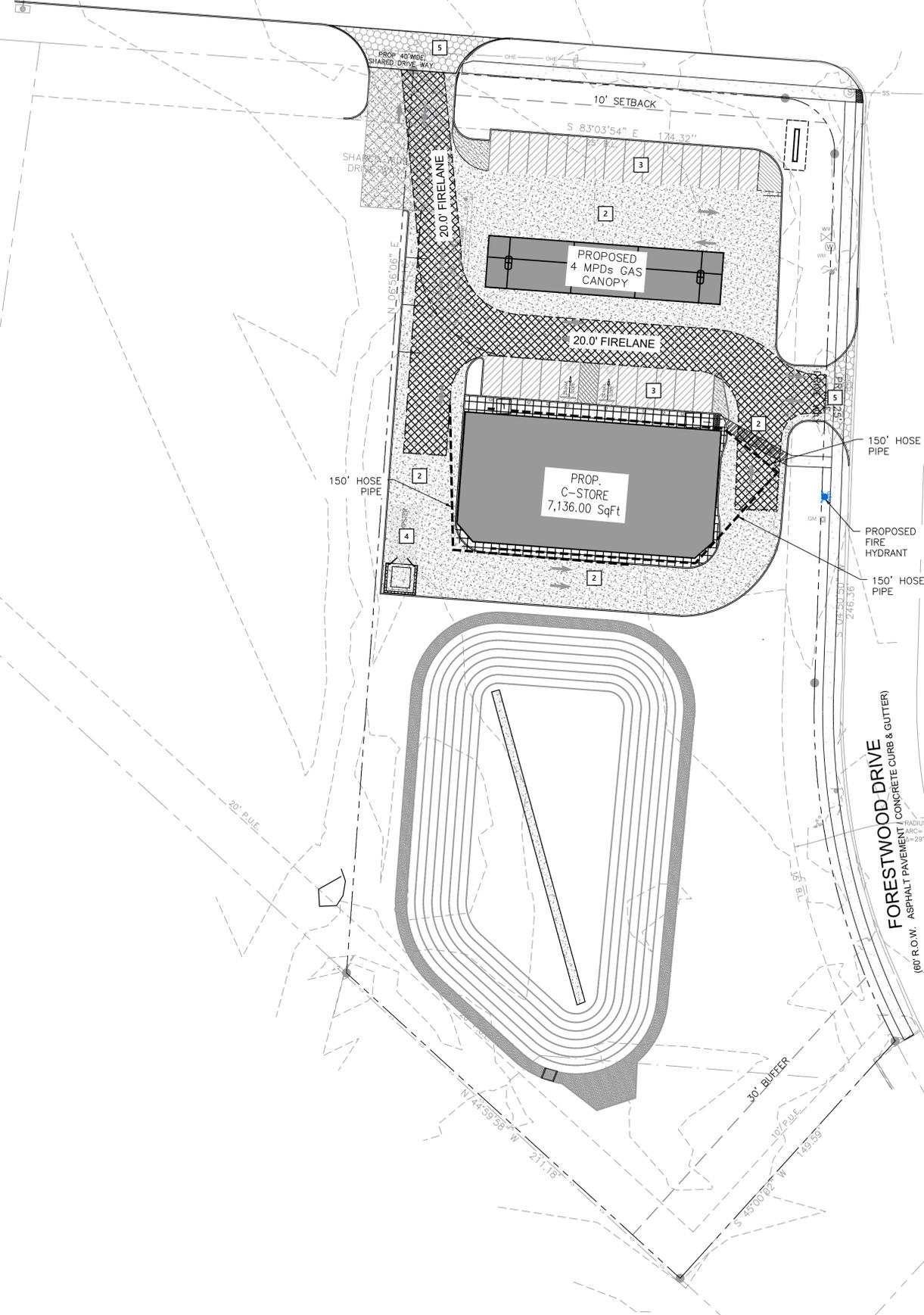
SITE SECTIONS

DRAWING NUMBER:
C-2.3



CENTER MH ELEV. = 337.66'
 FL IN 48" RCP (N) = 329.84'
 FL OUT 48" RCP (S) = 329.82'

WEST VILLA MARIA ROAD
 (100' R.O.W. ASPHALT PAVEMENT / CONCRETE CURB & GUTTER)



EX FIRE HYDRANT

FORESTWOOD DRIVE
 (80' R.O.W. ASPHALT PAVEMENT / CONCRETE CURB & GUTTER)

CENTER MH ELEV. = 339.29'
 FL IN 18" RCP (N) = 335.92'

- GENERAL NOTES**
- LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON RECORDS FROM SAID UTILITY COMPANIES AND ARE HORIZONTALLY FIELD LOCATED ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL LOCATION.
 - CONTRACTOR TO UNCOVER AND MARK UTILITY LINES BEFORE CONSTRUCTION.
 - CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
 - CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
 - ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL WATER STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
 - EXISTING UTILITIES TO REMAIN ARE TO BE ADJUSTED TO MATCH PROPOSED GRADE.
 - CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
 - ALL AREAS WITHIN THE PAVED AREAS ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
 - ALL AREAS NOT WITHIN THE PAVED AREA ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
 - AFTER NEW INLETS ARE CONSTRUCTED, INSTALL INLET PROTECTION PER DETAIL.
 - CONTRACTOR WILL CONTROL AND PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF AND SEDIMENT TO ADJACENT PROPERTY AND PUBLIC ROADS.
 - CONTRACTOR IS TO PROTECT EXISTING STORM DRAINAGE SYSTEM.
 - CONTRACTOR TO CONFORM TO ALL CONSTRUCTION STORM WATER AND EROSION CONTROL PERMITTING REQUIREMENTS BY "EPA PHASE II STORM WATER REGULATIONS" AS ADMINISTERED BY THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY. WHERE PERMITTING IS REQUIRED, A COPY OF THE NOTICE OF INTENT SHALL BE PROVIDED TO THE LOCAL MUNICIPAL AUTHORITY.
 - CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE TEXAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL CITY OF BRYAN PUBLIC WORKS (979-209-5900) AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
 - CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS AND PAVING TO ADA STANDARDS. VERIFY.
 - TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
 - EXCESS EXPORTS SHALL BE STOCKPILED AT LOCATION APPROVED BY OWNER AND CONFIRMED BY ENGINEER OF RECORD.

LEGEND

1		SIDEWALK (5" WITH #3 BARS @ 18" O.C.)
2		DRIVING PAVMT (6" WITH #4 BARS @ 18" O.C.)
3		PARKING PAVMT (6" WITH #4 BARS @ 24" O.C.)
4		DUMPSTER PAD (7" WITH #5 BARS @ 12" O.C.)
5		CONCRETE APRON (8" WITH #4 BARS @ 18" O.C.)

CONCRETE PAVING NOTES:

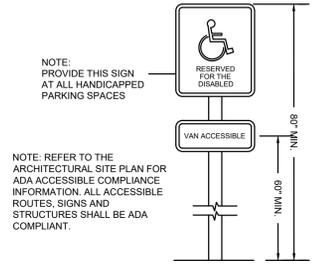
ALL CONCRETE SHALL BE IN ACCORDANCE TO THE BUILDING CODE REQUIREMENT IN THE ACI 318-85. ALL CONCRETE SHALL MEET THESE MINIMUM SPECIFICATION.

PAVING: CONCRETE STRENGTH: 3500 PSI @ 28 DAYS
 SLUMP: 3-4"
 MAX COARSE AGGREGATE SIZE: 1"

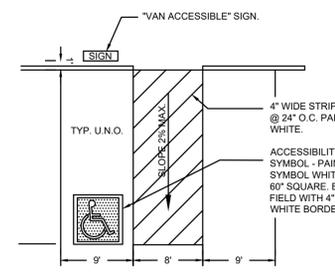
- FORM WORK DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT PLUS APPLIED CONSTRUCTION LOADS.
 - CONCRETE PLACEMENT SHALL BE ACCOMPLISHED BY DIRECT CHUTE FROM THE MIXER TRUCK, CRANE AND BUCKET OR BY PUMPING TO ITS FINAL POINT OF DEPOSIT. CONCRETE SHALL NOT BE DUG BY HAND MORE THAN 5 FEET.
 - TO PREVENT EXCESS AND UNCONTROLLED CRACKING, CONTROL JOINTS SHOULD BE PROVIDED AT 12' MAX. SPACING IN EACH DIRECTION. CONTROL JOINTS MAY BE SAW CUT, METAL KEYWAY OR OF REMOVABLE STRIP TYPE. EXPANSION JOINT SHALL BE PLACED NO MORE THAN 45' MAX. EXPANSION JOINTS SHALL THEN BE FILLED WITH AN ELASTOMERIC JOINT FILLER MATERIAL. SEE PLAN FOR EXACT LOCATION OF JOINTS. FOR SIDEWALKS, PROVIDE EXPANSION JOINTS @ 20' O.C. AND CONTROL JOINTS @ 5' O.C. MAX.
- PAVING METHODS:**
- 5" CONCRETE PAVING REINFORCED WITH #3 BARS @ 18" O.C. E.W. OVER 6" SUBGRADE WITH ABOUT 6% LINE-FLY ASH BY DRY UNIT WEIGHT STABILIZED. (SIDEWALKWAYS)
 - 6" CONCRETE PAVING REINFORCED WITH #4 BARS @ 24" O.C. E.W. OVER 6" SUBGRADE WITH ABOUT 6% LINE-FLY ASH BY DRY UNIT WEIGHT STABILIZED. (PARKING AREA)
 - 6" CONCRETE PAVING REINFORCED WITH #4 BARS @ 18" O.C. E.W. OVER 6" SUBGRADE WITH ABOUT 6% LINE-FLY ASH BY DRY UNIT WEIGHT STABILIZED. (DRIVING ISLE)
 - 7" CONCRETE PAVING REINFORCED WITH #5 BARS @ 12" O.C. E.W. OVER 9" SUBGRADE WITH ABOUT 6% LINE-FLY ASH BY DRY UNIT WEIGHT STABILIZED. (DUMPSTER LOCATION)
 - 8" CONCRETE PAVING REINFORCED WITH #4 BARS @ 18" O.C. E.W. OVER 8" LIME STABILIZED SUBGRADE. 60' MAX HEADER SPACING, MIN 16" LAP SPlice (CONCRETE DRIVEWAY APRON)
 - 8" BLACK BASE, 8" STABILIZED LIME SUBGRADE, 2.5-3" TYPE D

- REINFORCING STEEL NOTES:**
- REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60. BARS SHOULD BE NEW, CLEAN AND FREE OF DIRT, RUST OR OIL.
 - DETAILING AND FABRICATION OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE, ACI-318-80, UNLESS SHOWN OTHERWISE CONTINUOUS BARS 30 BAR DIAMETERS AT SPLICES, 12" MIN.
 - REINFORCING BARS MAY NOT BE WELDED WITHOUT THE APPROVAL OF THE CIVIL ENGINEER.
 - PROVIDE NECESSARY TIES AND BAR SUPPORTS AS REQUIRED BY THE MANUAL OF STANDARD PRACTICE, ACI 318-80, CHAPTER 3. BRICK, ROCK OR MASONRY BLOCKS ARE NOT ACCEPTABLE SUPPORTS. CHAIRS AND BOLSTERS FOR DIRECTLY OVER EARTH, POLY SHEETS SHALL BE EQUIPPED WITH BOTTOM BEARING PLATES.
 - CONCRETE COVERAGE FOR THE REINFORCING STEEL SHALL COMPLY WITH THE ACI 318-85 CODE, ARTICLE 7.7.1, EXCEPT WHERE STATED SPECIFICALLY OTHERWISE.

- SITE PREPARATION NOTES:**
- THE CONTRACTOR SHALL FOLLOW THE GUIDELINES SET FORTH WITHIN THE GEOTECHNICAL REPORT FOR SITE PREPARATION AND PAVING AND IS ADVISED TO GET IT SUPERVISED AND/OR INSPECTED WITH THE GEOTECHNICAL FIRM AS REQUIRED. THE MINIMUM SITE COMPACTION UNDER PAVING AND OVER UTILITIES SHALL BE 95% OR HIGHER ON PROCTOR WITH FILL PLACED IN 8" LIFTS. SUBGRADE MUST BE LIME STABILIZED AND REQUIRE 7% HYDRATED LIME BY DRY UNIT WEIGHT. THE STABILIZED CLAYS SHOULD BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY IN A MOISTURE CONTENT RANGE OF -1% TO +4% OF THE SOILLIME MIXTURE'S OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-698.



ACCESSIBLE PARKING SIGN



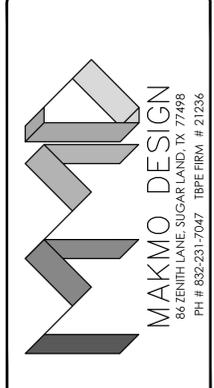
ACCESSIBLE PARKING DETAIL



ISSUE FOR:
 FOR INTER REVIEW ONLY
 BID ONLY
 PERMITS SET
 CONSTRUCTION SET

REVISIONS:

NO.	DATE	DESCRIPTION



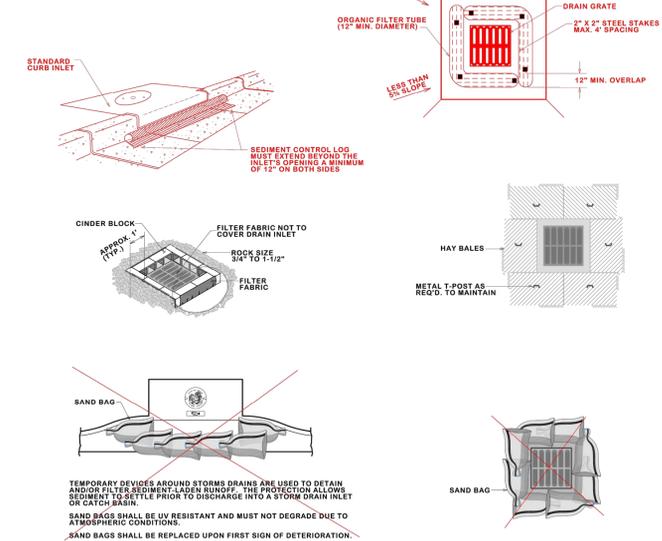
PROPOSED C STORE & GAS STATION
 LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL :
 DATE: 6/18/2025

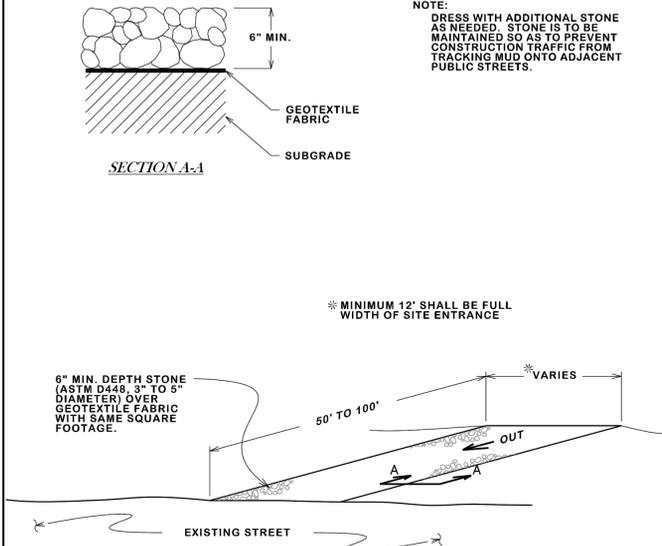
PROJECT NUMBER 23-000
 SCALE 1" = 30'
 DRAWN BY R.R
 CHECKED BY A.Z
 SHEET TITLE :

PAVING PLAN
 DRAWING NUMBER:
C-5.0

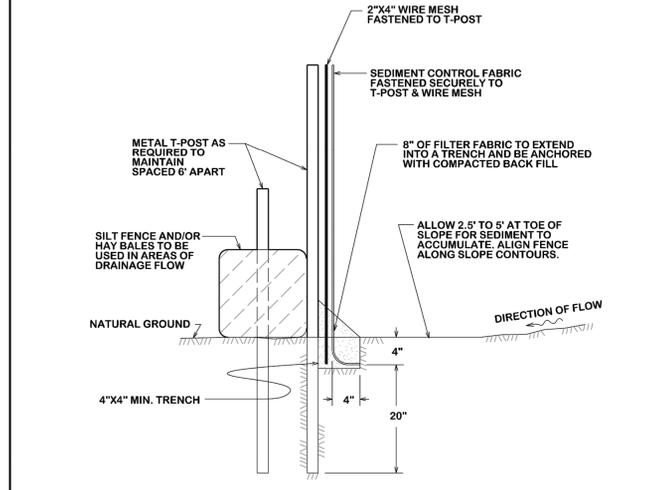
NOTE:
 TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT AND RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN INLET OR CATCH BASIN.
 SEDIMENT CONTROL LOGS ARE TO BE USED ON EXISTING CURB INLETS WHICH ARE LOCATED IN UNDISTURBED TRAVEL LANES WITHIN THE DISTURBED LIMITS OF A PROJECT AS SHOWN ON THE PLANS.
 SEDIMENT CONTROL LOGS ARE TO BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY WEIGHTED IN ORDER TO REMAIN SECURELY IN PLACE. INSTALLATION MUST MEET THE CONSTRUCTION INSPECTOR'S APPROVAL.
 SEDIMENT CONTROL LOGS ARE TO BE CONSTRUCTED OF WOOD FIBERS, SYNTHETIC FIBERS OR OTHER SUITABLE MATERIAL SUFFICIENT TO RETAIN ITS SHAPE AND ENCASED IN A UV STABILIZED FILTERING MEDIA OF SUFFICIENT STRENGTH TO RETAIN SEDIMENT.
 SEDIMENT CONTROL LOGS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 SAND BAGS SHALL NOT BE USED.



	STORM DRAIN INLET PROTECTION			
	DATE	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO.	
	DECEMBER 2020	SWPPP1-00		

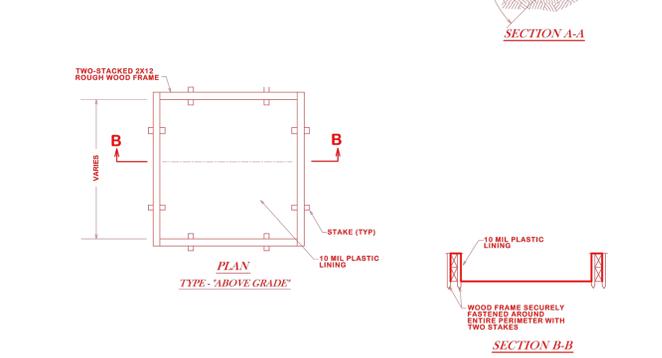


	CONSTRUCTION EXIT SLIT CONTROL			
	DATE	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO.	
	AUG. 2012	SWPPP1-02		



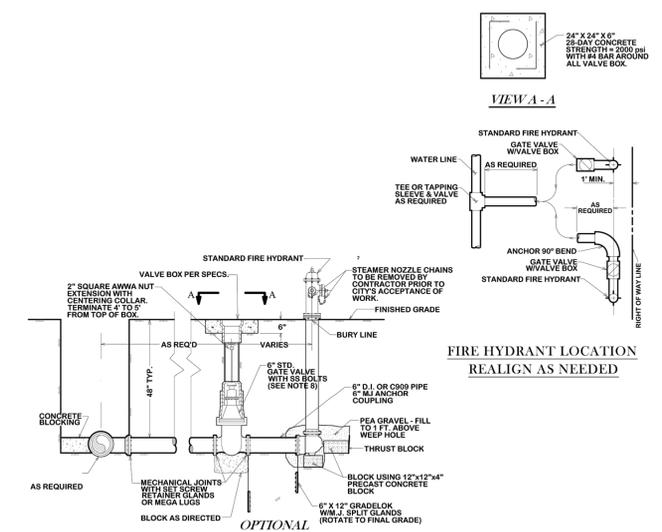
	SILT FENCE ASSEMBLY			
	DATE	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO.	
	AUG. 2012	SWPPP1-03		

NOTE:
 POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
 VERTICALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.
 NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SHREDDERS OR EXCESS AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
 EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
 ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
 TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED TO PREVENT OUTFLOWS THAT WILL CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
 WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFF-SITE. MATERIALS WASTE TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF BELOW GRADE. SITS SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO MEET SPECIFICATIONS OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
 CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCK EQUIPMENT.



	CONCRETE WASHOUT			
	DATE	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO.	
	DECEMBER 2020	SWPPP1-04		

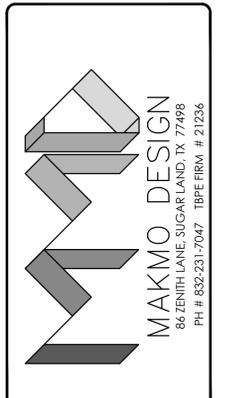
GENERAL NOTES:
 1. FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
 2. ALL CONCRETE BLOCKING SHALL BE 28 DAY CONCRETE STRENGTH = 2000psi.
 3. ALL THRUST BLOCKING SHALL PROVIDE A MINIMUM OF 2 SQUARE FEET OF BEARING AREA OF CONCRETE ON UNDISTURBED SOIL, OR AS DIRECTED BY THE ENGINEER.
 4. WATER MAINS WILL NOT BE FULLY PRESSURIZED UNTIL CONCRETE HAS REACHED 7 DAY STRENGTH.
 5. ALL PIPE WILL BE LAID SO AS THE ENTIRE BARRELL WILL HAVE FULL BEARING ON THE FINE GRADED TRENCH BOTTOM. BELL HOLES SHALL BE CUT FOR EACH BELL AND FIRE HYDRANT.
 6. ALL FITTING SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE DIRECTED.
 7. HYDRANTS SHALL BE LOCATED NO CLOSER THAN 3 FEET MEASURED FROM THE BACK OF CURB TO THE FACE OF THE STEAMER ON THE FIRE HYDRANT AND NO FURTHER THAN 15 FEET FROM BACK OF CURB.
 8. IF MAIN VALVE IS WITHIN 50 FEET OF FIRE HYDRANT THEN ASSEMBLY VALVE MAY BE OMITTED ON A DEAD END HYDRANT LEAD WITH NO ADDITIONAL CONNECTIONS.
 9. HEIGHT OF FIRE HYDRANT MEASURED FROM THE STEAMER NOZZLE SHALL BE 18 TO 24 INCHES ABOVE NEAREST FINAL GRADE.
 10. FIRE HYDRANTS SHALL COME EQUIPPED WITH STORZ QUARTER TURN PUMPER CONNECTIONS THAT ARE AN INTEGRAL PART OF THE FIRE HYDRANT, AND MUST BE FURNISHED BY THE MANUFACTURER, STORZ ADAPTERS WILL NOT BE ACCEPTED.



	STANDARD FIRE HYDRANT ASSEMBLY			
	DATE	B/C'S UNIFIED STANDARD DETAIL	DETAIL NO.	
	APR 2024	W1-02		

ISSUE FOR:
 FOR INTER REVIEW ONLY
 BID ONLY
 PERMITS SET
 CONSTRUCTION SET

REVISIONS:	
NO.	DESCRIPTION



PROPOSED C STORE & GAS STATION
 LOCATED AT
 1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL :
 DATE: 6/18/2025

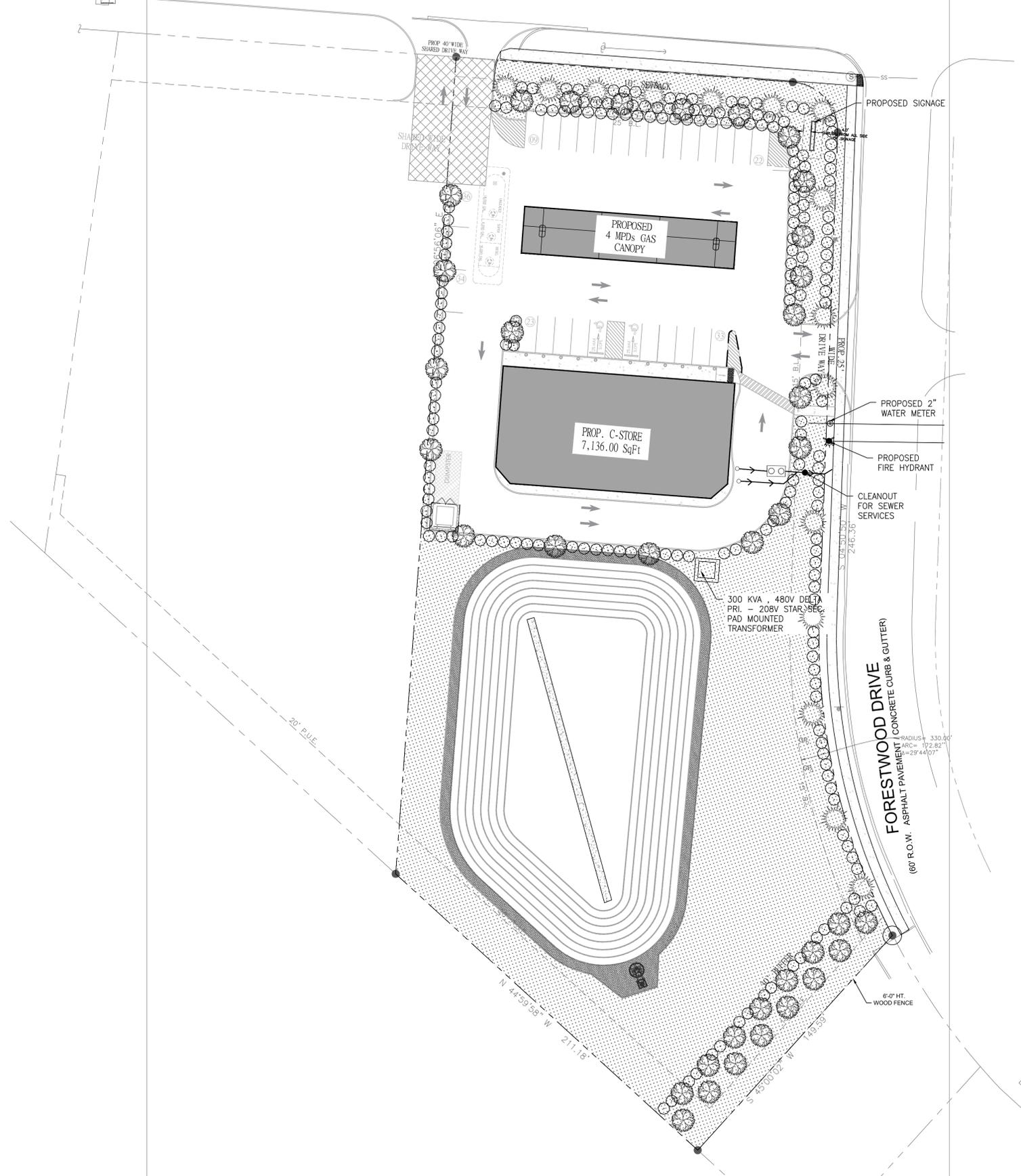
PROJECT NUMBER 23-000
 SCALE
 DRAWN BY R.R
 CHECKED BY A.Z
 SHEET TITLE :

SWPPP DETAILS

DRAWING NUMBER:
C-6.2

CENTER MH ELEV. = 337.66'
 FL IN 48" RCP (N) = 329.84'
 FL OUT 48" RCP (S) = 329.82'

WEST VILLA MARIA ROAD
 (100' R.O.W. ASPHALT PAVEMENT / CONCRETE CURB & GUTTER)



LANDSCAPING

SYMBOL	SIZE	OFFICIAL NAME	#	SF VALUE	TOTAL
	2" CALIPER	LIVE OAK QUERCUS VIRGINIANA CANOPY TREE	33	200	6,600
	2" CALIPER	DYNAMITE CREPE MYRTLE LAGERSTROEMIA INDICA DYNAMITE) NON-CANOPY TREE	14	150	2,100
	5 GAL. 2'-0" o.c.	KNOCK-OUT ROSE (ROSE RADRAZZ) SHRUB	140	10	1,400

NOTE:

- LANDSCAPING USED TO SCREEN PARKING LOTS MUST BE DENSE SHRUBBERY HAVING YEAR-ROUND FOLIAGE.
- THE LANDSCAPING SCREENING SHALL FOLLOW THE PATTERN REQUIRED IN THE ORDINANCE.

LANDSCAPE ANALYSIS:

1 - CONSTRUCTION ACTIVITIES:
 PARKING & PAVEMENT = 33,490 SF
 BUILDINGS = 7,136 SF
 NET TOTAL = 40,626 SF

2 - REQUIREMENTS:
 BUILDING, PARKING, & PAVEMENT
 40,626 SF @ 17% = 6,906 SF
 NET TOTAL = 6,906 SF

NOT LESS THAN 50% OF REQUIRED AREA SHALL BE TREES—3,453 SF REQ'D;
 5,700 PROVIDED

NOT LESS THAN 50% OF TREE PLANTED SHALL BE CANOPY; 1,727 SF REQ'D;
 3,400 PROVIDED

3 - PROVIDED:

CANOPY TREES
 18 @ 200 SF = 3,600 SF

NON-CANOPY TREES
 14 @ 150 SF = 2,100 SF

SHRUB 140 @ 10 SF = 1,400 SF

NET TOTAL = 7,100 SF

TOTAL AREA REQUIRED: 6,906 SF
 LANDSCAPED AREA PROVIDED: 7,100 SF

4 - BUFFER REDUCTION LANDSCAPING REQUIREMENT FOR THE REDUCED BUFFER AREA, THIS LANDSCAPING SHOULD BE COUNTED SEPARATELY FROM THE GENERAL 17% REQUIREMENT.

BUFFER LANDSCAPING CALCULATION:
 BUFFER AREA: 20 FT X 150 FT = 3,000 SF
 CANOPY TREES FOR BUFFER: 1 TREE PER 200 SF
 REQUIRED CANOPY TREES: 3,000 SF / 200 SF PER TREE = 15 CANOPY TREES

NOTE:
 AUTOMATIC IRRIGATION IS REQUIRED FOR THIS PROJECT
 ALL PARKING ISLANDS MUST HAVE A CANOPY TREE.

LANDSCAPING CALCULATIONS:

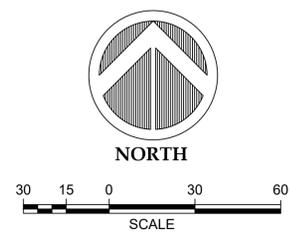
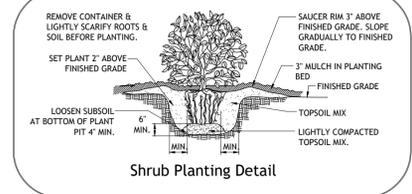
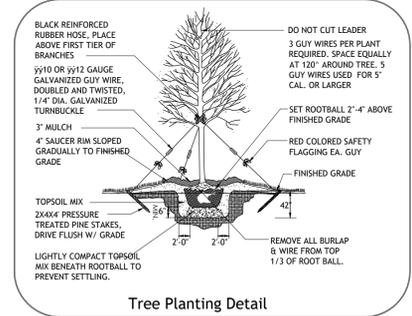
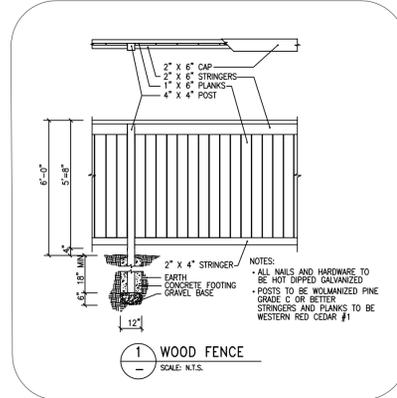
A. STREET TREES:
 Length of property line in lineal feet as measured along all sides of the property fronting on a public street(s).
 174.32/30 = 5.81 Street trees require on WEST VILLA MARIA ROAD
 246.36/30 = 8.21 Street trees require on FORESTWOOD DRIVE
 (Staff may create an artificial lot)

B. PARKING LOT TREES:
 Number of new parking stalls to be constructed 30/10 = 3.0 Parking lot trees required.

C. TOTAL TREE REQUIREMENT:
 A + B = 17 total number of street and parking lot trees required.

D. SHRUBS: (Are required for new or the expanded portion of parking lots)
 Total number of Street trees required, from A above 14 x 10 = 140 shrubs.

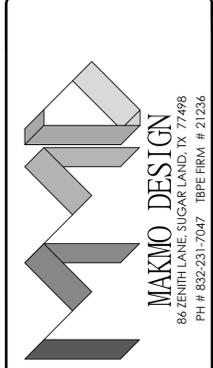
E. LANDSCAPE BUFFER:
 6' high screening fence, or 15' wide evergreen planting strip along the total length of property line adjacent to existing single-family residential, or limit of expansion adjacent to existing single-family residential.
 (Site plan must show land use on all side of the property)



ISSUE FOR:
 FOR INTER REVIEW ONLY
 BID ONLY
 PERMITS SET
 CONSTRUCTION SET

REVISIONS:

NO.	DATE	DESCRIPTION



PROPOSED C STORE & GAS STATION
 LOCATED AT
1001 W VILLA MARIA RD, BRYAN, TX 77801

SEAL: _____

DATE: 3/29/2024

PROJECT NUMBER : 23-000
 SCALE : 1" = 30'
 DRAWN BY : R.R
 CHECKED BY : A.Z
 SHEET TITLE :

LANDSCAPE PLAN

DRAWING NUMBER:
L-100