

SITE DEVELOPMENT PLANS FOR SHERWIN WILLIAMS

2101 AVONDALE HASLET ROAD

0.932 ACRES SITUATED IN THE ROAD VISTA CROSSROADS ADDITION BLOCK 2, LOT 4

CITY OF FORT WORTH TARRANT COUNTY, TEXAS 76052



VICINITY MAP N.T.S.







DRAWING SHEET INDEX					
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C-4.1	SITE DETAILS				
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L4	IRRIGATION SPECIFICATIONS				



3890 W. Northwest Hwy., Suite 100 Dallas, Tx. 75220

Site Drainage Study

A site drainage study, showing conformance with the approved roadway drainage plan, may be required before

any building permit will be issued on this site (a grading plan in some instances may be adequate.) If the site does not conform, then a drainage study may be required alon with a CFA for any required drainage improvements an the current owner shall submit a letter to the Department of Transportation and Public Works stating awareness th a Site Drainage Study will be required before any permit is issued. The current owner will inform each buyer of the

Construction Prohibited Over Easements

No permanent buildings or structures shall be constructed over any existing or platted water, sanitary sewer drainage, gas, electric, cable or other utility easement of any type.

Utility Easements

Any public utility, including the City of Fort Worth, shall have the right to move and keep moved all or part of any building, fence, tree, shrub, other growth or improvement which in any way endangers or interferes with the construction, maintenance, or efficiency of its respective systems on any of the easements shown on the plat; and they shall have the right at all times to ingress and egress upon said casements for the purpose of construction reconstruction, inspection, patrolling, maintaining, and adding to or removing all or part of its respective systems without the necessity at any time of procuring the permission of anyone.

Sidewalks

Sidewalks are required adjacent to both sides of all public and private streets, in conformance with the Sidewalk Policy per "City Development Design Standards".

Private Maintenance

The City of Fort Worth shall not be responsible for maintenance of private streets, drives, emergency access easements, recreation areas, open spaces and drainage facilities, and said owners agree to indemnify and save harmless the City of Fort Worth, Texas, from claims, damages and losses arising out of or from performance of the obligations of said owners set forth in this paragraph.

Building Permits

No building permits shall be issued for any lot in this Subdivision until an appropriate CFA or other acceptable provisions are made for the construction of any applicable water, sewer, storm drain, street lights, sidewalks, or paving improvements; and approval is first obtained from the City of Fort Worth.

Parkway Permit

Parkway improvements such as curb & gutter, pavement tie-in, drive approaches, sidewalks and drainage inlets may be required at time of building permit issuance via a parkway permit.

ransportation Impact Fees

The City of Fort Worth has an ordinance implementing the assessment and collection of transportation impac fees. The total amount assessed is established on the approval date of this plat application, based upon Schedule 1 of the impact fee ordinance in effect as of th date of the plat. The amount to be collected is determin ider Schedule 2 of said ordinance, and is due on the da a building permit is issued.

Water / Wastewater Impact Fees

The City of Fort Worth has an ordinance implement he assessment and collection of water and wastewater impact fees. The total amount assessed is established or the filing date of this plat application, based upon Schedule I of the current impact fee ordinance. The amount to be collected is determined under Schedule II of said ordinance, and becomes effective on the date a building permit is issued, or on the connection date to the municipal water and/or wastewater system.

P.R.V. Required

Private P.R.V's. will be required if water pressure exceed 80 P.S.I.

Private Booster Pumps Required

Private Booster Pumps required for proposed building with finish floor elevation requiring North Side 4 pressure plane for water service. In the absence of north side buildings will have to install privately owned an intained Booster Pump to enhance water pressure



100' 200

SCALE: 1"=100"

STATE OF TEXAS COUNTY OF TARRANT

WHEREAS Hunter Crossroads, LP, is the owner of 4.170 acres of land situated in the B.R. Lacy Survey, Abstract No. 990, City of Fort Worth, Tarrant County, Texas and being a portion of that certain remainder tract of land described in deed as Tract III to Hunter Crossroads, LP, as filed in County Clerk's No. (C.C.) #D207294400, Deed Records of Tarrant County, Texas (D.R.T.C.T.), and also being a portion of Tract 13, R.B. Bishop's Subdivision, an addition to Tarrant County, Texas, according to the plat recorded in Volume 63, Page 148, Plat Records of Tarrant County, Texas (P.R.T.C.T.) and being more particularly described by metes and bounds as follows:

BEGINNING at a 5/8 inch iron rod with cap stamped "TNP", set at a northwest corner of said Tract III remainder tract, also being the intersection of the south Right-of-Way (R-O-W) line of Avondale Haslet Road (variable width) dedicated by plat, according to the plat filed in Instrument #D215144485, P.R.T.C.T., with the northeast corner of the R-O-W line of Avondale Farms Drive (variable width) dedicated by plat, according to the plat filed in Instrument #D215105341, P.R.T.C.T.;

THENCE along the south R-O-W line of said Avondale Haslet Road and along a north line of said Tract III remainder tract, the following courses and distances;

N 89°36'22" E, a distance of 85.96 feet to a 5/8 inch iron rod with cap stamped "TNP", set at the beginning of a tangent curve to the left whose radius is 1040.00 feet and whose long chord bears N 86°27'59" E, a distance of 113.93 feet;

Along said curve in a northeasterly direction through a central angle of 06°16'47", an arc length of 113.99 feet to a 5/8 inch iron rod with cap stamped "TNP", set at the beginning of a reverse curve to the right whose radius is 960.00 feet and whose long chord bears N 86°27'59" E, a distance of 105.16 feet;

Along said curve in a northeasterly direction through a central angle of 06°16'46", an arc length of 105.21 feet to a 5/8 inch iron rod set with cap stamped "TNP";

N 89°36'22" E, a distance of 388.38 feet to a 5/8 inch iron rod with cap stamped "TNP", set, from which a 5/8 inch iron rod found with cap stamped "Dunaway Assoc.", at a northeast corner of said Tract III remainder tract, also being a northwest corner of a remainder tract of land conveyed to Vista Crossroads I, LTD, according to the deed filed in Instrument No. D204335429, D.R.T.C.T., bears N 89°36'22" E, a distance of 151.51 feet;

THENCE over and across said Tract III remainder tract, the following courses and distances;

S 00°16'12" E, a distance of 252.46 feet to a 5/8 inch iron rod set with cap stamped "TNP":

S 89°43'48" W, a distance of 688.90 feet to a 5/8 inch iron rod set with cap stamped "TNP", at the beginning of a non-tangent curve to the left whose radius is 458.00 feet and whose long chord bears S 17°59'34" E, a distance of 12.50 feet;

Along said curve in a southeasterly direction through a central angle of 01°33'50", an arc length of 12.50 feet to a 5/8 inch iron rod with cap stamped "TNP", set;

S 72°09'49" W, a distance of 42.00 feet to a 5/8 inch iron rod with cap stamped "TNP", set in the east R-O-W line of said Avondale Farms Drive (Inst. #D215105341, P.R.T.C.T.), and being the beginning of a non-tangent curve to the right whose radius is 500.00 feet and whose long chord bears N 09°28'59" W, a distance of 160.10 feet:

Along said curve and said east R-O-W line in a northwesterly direction through a central angle of 18°25'32", an arc length of 160.79 feet to a 5/8 inch iron rod with cap stamped "TNP", set;

THENCE continuing along said R-O-W line, the following courses and distance;

N 00°16'12" W, a distance of 7.50 feet to a 5/8 inch iron rod with cap stamped "TNP", set; N 89°43'48" E, a distance of 42.00 feet to a 5/8 inch iron rod with cap stamped "TNP", set;

N 00°16'12" W, a distance of 82.34 feet to a 5/8 inch iron rod found with cap stamped "Cotton Surveying";

N 44°47'22" E, continuing along said R-O-W line, a distance of 22.18 feet to the POINT OF BEGINNING and containing 181,643 square feet or 4.170 acres of land.

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS THAT Hunter Crossroads, LP, does hereby adopt this plat as:

LOTS 2, 3 & 4, BLOCK 2 VISTA CROSSROADS ADDITION

An addition to the City of Fort Worth, Tarrant County, Texas and does hereby dedicate to the public's use forever the easements and rights-of-way shown hereon. WITNESS my hand on this the 20th day of Feb nar 2017.

not Omen Scott Rohrman,

as Manager of the General Partner of Hunter Crossroads, LP

STATE OF TEXAS COUNTY OF DALLAS



-t. Mde 03-02-17

My Commission# 126635827 My Comm. Exp. Aug. 22, 2020

THIS PLAT FILED IN C.C. #D , DATE: / /2017. FINAL PLAT OF

LOTS 2, 3 & 4, BLOCK 2 VISTA CROSSROADS ADDITION An addition to the City of Fort Worth, Tarrant County, Texas, situated in the B.R. Lacy Survey, Abstract No. 990, City of Fort Worth, Tarrant County, Texas and being a portion of Tract 13, R.B.

Bishop's Subdivision, an addition to Tarrant County, Texas, according to the plat recorded in Volume 63, Page 148, Plat Records of Tarrant County, Texas and containing 4.170 acres of land total,

DATE: 2/20/2017

FP 15-007 Ref: PP 14-053

HTR 14350

 \mathbf{i}

Sherwin Williams.



DATE | PROJECT 12/21/23 049-23 P.E. DESIGN KP JZ SHEET #

C-2.0





	LAND DESCRIPTION	
<u>Tract 1:</u> Being Lot 4, Block 2, of Vista Cro Texas, according to the plat ther Tarrant County, Texas.	ssroads Addition, an addition to the City of Fort Worth, Tarrant County, eof recorded in Instrument No. D217048919, Official Public Records,	
SU To: Fort Worth Development Gro CROSSROADS, LP, a Texas lin	RVEYOR'S CERTIFICATION oup, LLC, a North Carolina limited liability company, HUNTER nited partnership, and First American Title Insurance Company	X PE FIRM #
This is to certify that this map or the 2021 Minimum Standard Dei and adopted by ALTA and NSPS The fieldwork was completed on	plat and the survey on which it is based were made in accordance with tail Requirements for ALTA/NSPS Land Title Surveys, jointly established S. ALTA Items: 1-5, 6(a), 6(b), 8, 9, 11(a), 13, 14, 17, and 18. June 27, 2023.	
Date of Plat or Map: June 28, 2 Title Commitment provided by: F G.F. No. 1002-384297-RTT Date:	023 First American Title Insurance Company	
David F. McCullah Registered Public Land Surveyo Texas Registration No. 4023	r	≻ &
	LEGEND BOUNDARY LINE ADJOINER BOUNDARY LINE EASEMENT LINE (AS NOTED) W WATER LINE	NOL
within the vey.)	-SAN> SANITARY SEWER LINE STORM DRAIN LINE (AS NOTED) OVERHEAD ELECTRIC LINE	ESCRIPT
spect to	OIRS 5/8" IRON ROD SET WITH A YELLOW CAP STAMPED "TRAVERSE LS"	D BMITTAL
8, recorded in	⊗ "X" CUT FOUND ⊗ "X" CUT SET ▶ ₩M ₩ ₩ATER METER	1ST SUE
nt filed s. ecorded in cc#	Image: Second	ATE -23
2, recorded in	VAULT TF TRANSFORMER E ELECTRIC EM ELECTRIC	12-21
ed 02/22/2013,	EB ELECTRIC BOX CV CABLE VAULT TJB TELEPHONE JUNCTION BOX TSL TRAFFIC SIGNAL LIGHT	Ŷ_⊢
Agreement, Texas.	Image: Transfic sign Image: Storm man hole	
16, recorded	Ø POWER POLE G GAS METER AIR CONDITIONER UNIT BENCH MARK	KARTAV
5/2017,	(CM)CONTROL MONUMENTO.P.R.T.C.T.OFFICIAL PUBLIC RECORDS TARRANT COUNTY, TEXASD.R.T.C.T.DEED RECORDS TARRANT COUNTY, TEXAS	12
d from the est, to the 01, recorded in nd refiled ty, Texas.		
alto Oil ecorded in es no	ALTA/NSPS LAND TITLE SURVEY LOT 4, BLOCK 2, VISTA CROSSROADS ADDITION B.R. LACY SURVEY, ABSTRACT NO. 990 CITY OF FORT WORTH, TARRANT COUNTY, TEXAS	Ĕ

							C		
DESCRIPTION	ΒY	IRAVERSE							
		LAND SURVEYING LLC							
		14200 Midway Road, Suite 130, Dallas, TX 75224 T: 469.784.9321 W: TraverseLandSurveying.com Texas Firm No. 10194631							
			Surveving Construction Staking Platting						
		DRAWN	CHECK	DATE	SCALE	PROJECT NO.	SHEET NO.		
		TD	DM	06/28/2023	1" = 30'	TR-59-23	1		
							I		

YA S. PATEL 97534 🤅 2/21/2023

WILLIA







VICINITY MAP

SITE GENERAL NOTES 1. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE CITY OR LOCAL JURISDICTION STANDARDS.

2. THE LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS IS TAKEN FROM AS-BUILTS, UTILITY PLANS OR SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND UTILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND UTILITIES. IF EXISTING UNDERGROUND UTILITIES ARE DAMAGED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING THE UTILITY.

3. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS WITH UTILITIES.

4. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U. S. DEPARTMENT OF LABOR, OSHA, CONSTRUCTION SAFETY AND HEALTH REGULATIONS AND ANY AMENDMENTS THERETO.

5. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS.

6. ANY CHANGES NEEDED AFTER CONSTRUCTION PLANS HAVE BEEN RELEASED, SHALL BE APPROVED BY THE CITY ENGINEER. THESE CHANGES MUST BE RECEIVED IN WRITING.

7. THE CONTRACTOR SHALL PROVIDE "RED LINED" MARKED PRINTS TO THE ENGINEER PRIOR TO FINAL INSPECTION INDICATING ALL CONSTRUCTION WHICH DEVIATED FROM THE PLANS OR WAS CONSTRUCTED IN ADDITION TO THAT INDICATED ON THE PLANS.

8. ALL CURB RADIUS TO BE 10' OR 2' UNLESS OTHERWISE NOTED ON THE SITE PLAN.

9. FIRE LANE SHALL BE CONSTRUCTED OF CONCRETE OR ASPHALT ABLE TO WITHSTAND AN IMPOSED LOAD OF 85,000 LBS.

10. THERE SHALL BE NO OVERHEAD OBSTRUCTIONS OF LESS THAN 14' OVER THE FIRE LANE.

11. FIRE LANE SHALL BE MARKED "FIRE LANE - TOW-AWAY ZONE."

COMMERCIAL SITE DATA SUMMARY TABLE						
GROSS SITE ACREAGE:	0.932 ACRES OR 40),598 S.F.				
EXISTING ZONING:	PD 827 NEIGHBORH	HOOD COMMERCIAL (E)				
PROPOSED ZONING:	PD 827 NEIGHBORH	HOOD COMMERCIAL (E)				
PROPOSED USE:	RETAIL					
BUILDING AREA:	4,455 S.F.					
NUMBER OF STORIES:	1					
BUILDING HEIGHT:	26'					
FACADE:	STUCCO					
PARKING REQUIRED:	18 PARKING SPACE	ES				
4 PER 1000 FT. SF						
REGULAR PARKING PROVIDED:	16 PARKING SPACE	ES				
HANDICAP PARKING REQUIRED:	1 SPACE (1 VAN AC	CESSIBLE)				
HANDICAP PARKING PROVIDED:	2 SPACE (1 VAN AC	CESSIBLE)				
TOTAL PARKING PROVIDED:	18 PARKING SPACE	ES				
IMPERVIOUS COVERAGE:	20,477 S.F. OR 50.4	3%				
PERVIOUS/LANDSCAPE AREA:	20,121 S.F. OR 49.5	7%				
ZONING REQUIREMENTS GC	REQUIRED	PROVIDED				
FRONT YARD SETBACK	10'	10'				
SIDE YARD SETBACK	0'	0'				
REAR YARD SETBACK	10'	10'				
MAXIMUM IMPERVIOUS COVER	85%	49%				

NOTES

THIS PROJECT WILL COMPLY WITH SECTION 6.301, LANDSCAPING. THIS PROJECT WILL COMPLY WITH SECTION 6.302, URBAN FORESTRY. ALL SIGNAGE WILL CONFORM TO ARTICLE 4, SIGNS. ALL PROVIDED LIGHTING WILL CONFORM TO THE LIGHTING CODE.



















THE SUBJECT PROPERTY LIES WITHIN THE ZONE "X" UNSHADED (DETERMINED TO BE OF THE 0.20% ANNUAL CHANGE FLOODPLAIN) AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP NUMBER 48439C0035L, DATED MARCH 21, 2019 FOR TARRENT COUNTY, TEXAS AND INCORPORATED AREAS.

BENCHMARKS

THE BASIS OF BEARINGS IS FROM THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, NORTH CENTRAL ZONE AS DERIVED FROM GPS OBSERVATIONS USING THE ALLTERRA R TK NETWORK AND ADJUSTED TO SURFACE USING A SURFACE SCALE FACTOR OF 1.00012.

BENCHMARK NO. 1

SQUARE WITH AN "X" CUT IN CONCRETE DRIVEWAY CURB RETURN 50' +/-NORTHWEST OF NORTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION: 733.88

GRADING LEGEND					
EXISTING MINOR CONTOURS	750				
EXISTING MAJOR CONTOURS	— — —				
TOP OF CURB & GUTTER ELEVATION	TC 740.31 G 739.81				
FINISHED GRADE	000.00 FG				
EXISTING GRADE	000.00 EX				
DRAINAGE FLOW DIRECTION	2.0%				
MINOR CONTOURS	740				
MAJOR CONTOURS	740				
SWALE	·· · · · · · ·				
HIGH POINT	HP HP HP HP				
STORM PIPE	STM->				
CURB INLET					
STORM MANHOLE	O				
STORM CLEANOUT	0				
RETAINING WALL					
RIP RAP	8333333333333				







KART PROTESS	E. 0 AVYA 975 /ce 12/21	F. 7 S. 534 NSE L	PATEL PATEL NON	*		
GRADING PLAN	SHERWIN WILLIAMS	2101 AVONDALE HASLET KOAD	VISTA URUSSRUAUS AUUTTUN BLUUN 2, LUT 4 CITY OF FORT WORTH	TARRANT COUNTY, TEXAS		
DAT 12/21/	E 23	PR 0	OJEC 49-23	СТ 3		
P.E		DI	ESIGI JZ	N		
SHEET #						
C-5.0						





BENCHMARKS

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SQUARE WITH AN "X" CUT IN CONCRETE DRIVEWAY CURB RETURN 50' +/-NORTHWEST OF NORTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION: 733.88







DRAINAGE
AREACDA-10.6DA-20.6P

	POST-DEVELOPED DRAINAGE CALCULATIONS										
С	Tc (min)	l-2 (in/hr)	l-10 (in/hr)	l-25 (in/hr)	l-100 (in/hr)	A (acres)	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-100 (cfs)	REMARKS
0.60	10	4.21	6.44	7.72	11.99	0.66	1.67	2.55	3.06	4.75	4'X4' AREA INLET
).60	10	4.21	6.44	7.72	11.99	0.26	0.66	1.00	1.20	1.87	4'X4' AREA INLET
TOTAL 0.92 2.32 3.55 4.26 6.62											
Based on (iSWM) Technical Manual and the National Oceanic and Atmospheric Administration's (NOH) Atlas 14											
Prec	Precipitation-Frequency Atlas Of the United States, Volume 11 Version 2.0: Texas' (Perica et al- 2018), Annual Maximum Series										

WEIGHTED RUNOFF COEFF. CALCS FOR DRAINAGE AREA A $C = \frac{0.30 \times 0.47 + 0.90 \times 0.46}{0.93} = 0.60$



FLOOD PLAIN NOTE

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SDA1 TO SDA2 30.415 4.75 4.75 9.3

GRATE INLET IN SUMP									
0-100 (cfs)	AREA (sf.)	DEPTH AT OPENING (ft.)	Q	Q, 50%	REMARKS				
5.78	4.00	0.50	13.60	6.80	2' X 2' GRATE INLET				
E INLET IN SUMP IS Q = 4.82Ah ^0.5									

ac II	Vel Ave	Line Size	Line Slope	Invert Dn	Invert Up	HGL Dn	HGL Up	Gnd/Rim El Dn	Gnd/Rim El Up	J-Loss Coeff	Sf Ave	Vel Hd Up
5)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		(%)	(ft)
39	2.81	18	0.80	840.50	840.74	842.00	842.04	842.30	843.74	1.25	0.196	0.13





UTILITY LEGEND						
UNDERGROUND TELEPHONE LINE UNDERGROUND ELECTRIC LINE GAS LINE SANITARY SEWER LINE WATER MAIN DOMESTIC WATER LINE STORM LINE	UGT UGT UGT UGE UGE UGE G G G SAN SAN SAN W W W D D D					
STORM SEWER MANHOLE STORM SEWER CLEANOUT SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT SANITARY SEWER DOUBLE CLEANOUT SANITARY SEWER SAMPLE PORT WATER METER IRRIGATION METER GAS METER FIRE HYDRANT TRANSFORMER						
LIGHT POLE POWER POLE	× ø					

FLOOD PLAIN NOTE

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BENCHMARK NO. 1

SQUARE WITH AN "X" CUT IN CONCRETE DRIVEWAY CURB RETURN 50' +/-NORTHWEST OF NORTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION: 733.88

SHERWIN WILLIAMS. RANGLE ENGINEERING LLC KARTAVYA S. PATEL 97534 12/21/2023 S Ш́ ROAD PROFIL SHERWIN WILLIAMS 01 AVONDALE HASLET RO 05SROADS ADDITION BLOC CITY OF FORT WORTH TARRANT COUNTY, TEXAS SEWER TORM 2101 ROS

C

DATE PROJECT

12/21/23 049-23

P.E. DESIGN KP JZ

SHEET #

C-6.2

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Precast Drainage Structures

Materials & Features

MAXIMUM PIPE SIZE: 18" I.D. R.C.P.

CONCRETE: 5,000 PSI

REINFORCING: per ASTM A-615 or A-185

CAST IRON FRAME & GRATE per ASTM A 48; Class 30/35

GRATE WEIGHT: 100 Lbs.

CATCH BASIN WEIGHT:

2'..... 1,580 Lbs. 3'..... 2,500 Lbs.

4'......3,420 Lbs.

EXTENSION WEIGHT: 12" 500 Lbs. 18"......750 Lbs.

#2



-No Scale-All dimensions subject to allow specification tolerances.

TITLE	PLANT	STATE	SECTION.PAGE	DATE	
26 Catch Basin	Waco	тх	8.6	Feb 2016	FORTER

	SHERWIN WILLIAMS.
	TX PE FIRM #11525 TX PE FIRM #1555 TX PE FIRM #15555 TX PE FIRM #15555 TX PE FIRM #155555 TX PE FIRM #1555555 TX PE FIRM #1555555555555555555555555555555555
	B 전
	DESCRIPTION 1ST SUBMITTAL
	NO. DATE 1 12-21-23
	KARTAVYA S. PATEL 97534 97534 97534 12/21/2023
vable	STORM SEWER DETAILS SHERWIN WILLIAMS 2101 AVONDALE HASLET ROAD VISTA CROSSROADS ADDITION BLOCK 2, LOT 4 CITY OF FORT WORTH TARRANT COUNTY, TEXAS
RA	DATE PROJECT 12/21/23 049-23 P.E. DESIGN KP JZ SHEET # C-6.3



C-7.0







	BOUNDARY LINE	M WV	WATER VALVE
	ADJOINER BOUNDARY LINE	TJB	TRAFFIC SIGNAL BOX
	EASEMENT LINE (AS NOTED)	<u> </u>	GAS SIGN MARKER
——-W-——-	WATER LINE	W	WATER METER
SAN>	SANITARY SEWER LINE	EP	ELECTRIC PEDESTAL
STM->	STORM DRAIN LINE (AS NOTED)	T	TELEPHONE MANHOLE
OHE	OVERHEAD ELECTRIC LINE	D	STORM MAN HOLE
—— G ——	GAS LINE	Фlp	LIGHT POLE
—U/F—	UNDERGROUND FIBER OPTIC LINE	O PP	POWER POLE
0	SIGN	•	BENCH MARK
0	SET IRON ROD (AS NOTED)	(CM)	CONTROL MONUMENT
•	FOUND IRON ROD (AS NOTED)	Oco	SANITARY SEWER CLEANOUT
\otimes	"X" CUT FOUND	0.P.R.B.C.T.	OFFICIAL PUBLIC RECORDS
\otimes	"X" CUT SET		BOWIE COUNTY, TEXAS
🕹 FH	FIRE HYDRANT	D.R.B.C.T.	DEED_RECORDS
63	SANITARY SEWER MAN HOLE		BOWIE COUNTY, TEXAS
		P	UNDERGROUND UTILITIES (SU



EASEMENT/SETBACK LEGEND	
BUILDING SET BACK	B.S.
LANDSCAPE SETBACK	L.S.
BUILDABLE AREA SF	B.A.
PRIVATE WALL AND WALL MAINTENANCE EASEMENT	P.W.M.E
PRIVATE FENCE AND FENCE MAINTENANCE EASEMENT	P.F.M.E
SIDEWALK EASEMENT	S.E.
ELECTRICAL EASEMENT	E.E.
UTILITY EASEMENT	U.E.





SHEET # C-8.0











SHERWIN

KARTAVYA S. PATEL

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12/21/2023

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IERWIN WILLIAMS ONDALE HASLET RO ADS ADDITION BLOC OF FORT WORTH ANT COUNTY, TEXAS

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P.E. DESIGN

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VICINITY MAP N.T.S.

EROSION CONTROL GENERAL NOTES 1. EVERY SOIL DISTURBING ACTIVITY SHALL HAVE AN ACCOMPANYING EROSION CONTROL PLAN .

2. THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) SHALL BE READILY AVAILABLE FOR REVIEW BY FEDERAL, STATE, OR LOCAL OFFICIALS.

3. NO SOIL DISTURBING ACTIVITIES WILL OCCUR PRIOR TO THE SWP3 AND ASSOCIATED BEST MANAGEMENT PRACTICES (BMP) BEING FULLY IMPLEMENTED AND THEN INSPECTED.

4. THE CONTRACTOR SHALL COMPLY WITH THE CITY'S STORM WATER ORDINANCE, THE TPDES GENERAL CONSTRUCTION PERMIT TXR150000 AND ANY OTHER STATE AND/OR LOCAL REGULATIONS.

5. THE SITE SHALL BE INSPECTED BY THE CONTRACTOR OR HIS REPRESENTATIVE WEEKLY, AND AFTER ANY MAJOR STORM. ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL MEASURES SHOULD BE MADE AS NEEDED.

6. CONTRACTOR SHALL VEGETATE ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF GRADING ACTIVITIES. FINAL ACCEPTANCE OF A SITE SHALL BE CONTINGENT UPON VEGETATION BEING ESTABLISHED IN ALL DISTURBED AREAS.

7. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION OR BETTER.

8. THE CONCRETE WASHOUT AREA IS TO BE USED AS A VEHICLE WASH DOWN AREA FOR DEBRIS AND SOIL REMOVAL PRIOR TO EXITING THE SITE.





SAGE NOTES

MATERIAL THAT EFFETIVELY SECURES THEFILTER SOCK.

3. USE 8" TO 12" DIA. SOCK ON CUBSIDE IN TRAFFIC AREAS. 4. USE 12" - 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS

COMPOST FILTER SOCKS ARE DESIGNED TO RETAIN SEDIMENT TRANSPORTED IN SHEET FLOW FROM DISTURBED AREAS. COMPOST FILTER SOCKS PERFORM THE SAME FUNCTION AS SHALL NOT EXCEED ${
m 1}_4$ ACRE FOR EVERY 100 FT OF COMPOST

FILTERING AND DEPOSITION FROM SETTLING SOLIDS. THIS IS SILT FENCE. PONDING OCCURS WHEN WATER FLOWING TO THE

CONSTRUCTION SPECIFICATIONS:



CONSTRUCTION ENTRANCE DETAIL N.T.S.



CONSTRUCTION-

- EXISTING GRADE.



HUNTER CROSSROADS, LP INST. NO. D207294400, O.P.R.T.C.T. PD 830 LIGHT INDUSTRIAL (I)



GENERAL LAWN NOTES

- 1. FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS INDICATED ON CIVIL PLANS.
- ADJUST CONTOURS TO ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS. PROVIDE UNIFORM ROUNDING AT TOP AND BOTTOM OF SLOPES AND OTHER BREAKS IN GRADE. CORRECT IRREGULARITIES AND AREAS WHERE WATER MAY STAND.
- ALL LAWN AREAS TO RECEIVE SOLID SOD SHALL BE LEFT IN A MAXIMUM OF 1" BELOW FINAL FINISH GRADE. CONTRACTOR TO COORDINATE OPERATIONS WITH ON-SITE CONSTRUCTION MANAGER.
- IMPORTED TOPSOIL SHALL BE NATURAL, FRIABLE SOIL FROM THE 4. REGION, KNOWN AS BOTTOM AND SOIL, FREE FROM LUMPS, CLAY, TOXIC SUBSTANCES, ROOTS, DEBRIS, VEGETATION, STONES, CONTAINING NO SALT AND BLACK TO BROWN IN COLOR.
- 5. ALL LAWN AREAS TO BE FINE GRADED, IRRIGATION TRENCHES COMPLETELY SETTLED, AND FINISH GRADE APPROVED BY THE OWNER'S CONSTRUCTION MANAGER OR ARCHITECT PRIOR TO INSTALLATION.
- 6. ALL ROCKS 3/4" DIAMETER AND LARGER, DIRT CLODS, STICKS, CONCRETE SPOILS, ETC. SHALL BE REMOVED PRIOR TO PLACING TOPSOIL AND ANY LAWN INSTALLATION
- 7. CONTRACTOR SHALL PROVIDE (1") ONE INCH OF IMPORTED TOPSOIL ON ALL AREAS TO RECEIVE LAWN.

LANDSCAPE NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
- 2. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY ARCHITECT OF ANY CONFLICTS. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF UNDERGROUND UTILITIES.
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED LANDSCAPE AND IRRIGATION PERMITS.
- 4. CONTRACTOR TO PROVIDE A MINIMUM 2% SLOPE AWAY FROM ALL STRUCTURES.
- 5. ALL PLANTING BEDS AND LAWN AREAS TO BE SEPARATED BY STEEL EDGING. NO STEEL TO BE INSTALLED ADJACENT TO SIDEWALKS OR CURBS.
- 6. ALL LANDSCAPE AREAS TO BE 100% IRRIGATED WITH AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM AND SHALL INCLUDE RAIN AND FREEZE SENSORS.
- 7. ALL LAWN AREAS TO BE HYDRO-MULCH BERMUDAGRASS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

PLANT MATERIAL SCHEDULE -

TREES				
TYPE	QTY	COMMON NAME	BOTANICAL NAME	
LO	_O 3 Live Oak		Lagerstroemia indica	
CE	3	Cedar Elm	Ulmus crassifolia	
СМ	3	Crepe Myrtle	Lagerstroema indica	
SHRUBS				
TYPE	QTY	COMMON NAME	BOTANICAL NAME	
NPH	65	Needlepoint Holly	llex x cornuta 'Needlepoint'	
NRS	8	Nellie R. Stevens	llex x 'Nellie R. Stevens'	
GROUN	DCOVERS	1	1	
TYPE	QTY	COMMON NAME	BOTANICAL NAME	
LIR	360	Liriope	Liriope muscari	
		'419' Bermudagrass	Cynodon dactylon '419'	
NOTE: Plant list is an aid to bidders only. Contractor shall verify all				

material shall meet or exceed remarks as indicated. All trees to have straight trunks and be matching within varieties.

LANDSCAPE TABULATIONS -

	REQUIRED	
GROSS SITE AREA (S.F.)	40,617.97 S.F.	
LESS BUILDING AREA (S.F.)	4,455 S.F.	
NET SITE AREA (S.F.)	36,162.97 S.F.	
REQUIRED LANDSCAPE (X 10%)	3,616.30 S.F.	
REQUIRED SHRUBS	73	
5 GALLON MIN, (DIVIDED BY 50)		
LANDSCAPE AREA IN FRONT YARD (75%)	2,712.23 S.F.	
SHRUBS IN FRONT YARD (75%)	55	



HYDROMULCH NOTES

NOTED OTHERWISE ON DRAWINGS.

- VICINITY MAP 1. ALL LAWN AREAS TO BE HYDROMULCH BERMUDAGRASS, UNLESS N.T.S.
- 2. CONTRACTOR SHALL SCARIFY, RIP, LOOSEN ALL AREAS TO BE HYDROMULCHED TO A MINIMUM DEPTH OF 4" PRIOR TO TOPSOIL AND HYDROMULCH INSTALLATION.
- BERMUDAGRASS SEED SHALL BE EXTRA HULLED AND TREATED 3. LAWN TYPE AND SHALL BE DELIVERED TO THE SITE IN ITS ORIGINAL UNOPENED CONTAINER, AND SHALL MEET TEXAS STATE LAW REQUIREMENTS.
- 4. FIBER: SHALL BE ONE HUNDRED (100%) PERCENT WOOD CELLULOSE FIBER, DELIVERED TO THE SITE IN ITS ORIGINAL UNOPENED CONTAINER. 'CONWEB' OR EQUAL.
- FIBER TACK: SHALL BE DELIVERED TO THE SITE IN ITS ORIGINAL 5. UNOPENED CONTAINER, AND SHALL BE 'TERRO-TACK ONE', AS MANUFACTURED BY GROWERS, INC., OR EQUAL.
- HYDROMULCH WITH BERMUDAGRASS SEED AT A RATE OF TWO (2) 6. POUNDS PER ONE THOUSAND (1000) SQUARE FOOT.
- 7. USE A 4'X8' BATTER BOARD AGAINST ALL BEDS AREAS.
- IF INSTALLATION OCCURS BETWEEN SEPTEMBER 1 AND APRIL 1, ALL HYDROMULCH AREAS TO BE WINTER RYEGRASS, AT A RATE OF FOUR (4) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. CONTRACTOR SHALL BE REQUIRED TO RE-HYDROMULCH WITH BERMUDAGRASS THE FOLLOWING GROWING SEASON.
- IN THE EVENT RYE GRASS IS NECESSARY DUE TO TIME OF YEAR INSTALLATION, IT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR TO SCALP EXISTING GRASS, BAG CLIPPINGS, AND SCARIFY SOIL TO A DEPTH OF 1" PRIOR TO PERNAMENT LAWN GRASS INSTALLATION.
- 10. ALL LAWN AREAS TO BE HYDROMULCHED, SHALL HAVE ONE HUNDRED (100%) PERCENT COVERAGE PRIOR TO FINAL ACCEPTANCE.
- 11. CONTRACTOR SHALL MAINTAIN ALL LAWN AREAS UNTIL FINAL ACCEPTANCE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: MOWING, WATERING, WEEDING, CULTIVATING, CLEANING, AND REPLACING DEAD OR BARE AREAS TO KEEP PLANTS IN A VIGOROUS, HEALTHY CONDITION.
- 12. CONTRACTOR SHALL GUARANTEE ESTABLISHMENT OF AN ACCEPTABLE TURF AREA AND SHALL PROVIDE REPLACEMENT FROM LOCAL SUPPLY AS NECESSARY.

SIZE	REMARKS
3" cal.	container, 12' ht., 5' spread 5' clear trunk
3" cal.	container, 12' ht., 5' spread 5' clear trunk
2" cal.	container, 8' ht., tree form
SIZE	REMARKS
5 gal.	container, 24" ht., 20" spread
5 gal.	container, 24" ht., 24" spread
T	
SIZE	REMARKS
4" pots	container full, well rooted
	Hydro-mulch refer to notes

I quantities on plan. All heights and spreads are minimums. All plant

SHERWIN WILLIAMS

TEL: 469-426-7339

	OTERVIN	WIELIANIO	
PROVIDED 19,299.47 S.F.	2101 AVONDA VISTA CROSSROADS A FORT WOF	LE HASLET RD. DDITION BLOCK 2, LOT 4 RTH, TEXAS	
73 5,420.61 S.F.	PROJECT C	PROJECT CONTACT LIST	
35	ENGINEER TRIANGLE ENGINEERING LLC 1782 W MCDERMOTT DRIVE ALLEN, TEXAS 75013 CONTACT: JACK ZANGER TEL: 469-331-8566	OWNER/DEVELOPER FORT WORTH DEVELOPMENT GROUP, LLC 120 MARKET SQ., FLOOR 2, PINEHURST, NC 28374 CONTACT: GAVIN MELIA TEL: 910 724 6720	
	SURV TRAVERSE LAND 14200 MIDWAY F DALLAS, CONTACT: GRAY	<u>/EYOR</u> O SURVEYING LLC ROAD, SUITE 130 TX 75224 YSON CEBALLOS	

LANDSCAPE ARCHITECT 1782 W McDERMOTT DR. ALLEN, TEXAS 75013 (469) 369-4448 CHRIS@STUDIOGREENSPOT.COM



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OWNER COMMENTS 11.28.2023

FOR APPROVAL 10.26.2023

ISSUE:

WILLIAMS

SHERWIN

DATE: 11.28.2023

SHEET NAME: LANDSCAPE PLAN

SHEET NUMBER:

SECTION 02900 - LANDSCAPE

PART 1 - GENERAL

1.1 REFERENCED DOCUMENTS

Refer to bidding requirements, special provisions, and schedules for additional requirements.

1.2 DESCRIPTION OF WORK

Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including:

- 1. Planting (trees, shrubs, and grass)
- Bed preparation and fertilization
- 3. Notification of sources 4. Water and Maintenance until final acceptance

5. Guarantee

- 1.3 REFERENCE STANDARDS
 - American Standard for Nursery Stock published by American Association of Nurserymen 27 October 1980, Edition; by American National Standards Institute, Inc. (Z60.1) - plant material.
 - American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names
 - Texas Association of Nurserymen, Grades and Standards.
 - Hortis Third, 1976 Cornell University D.
- 1.4 NOTIFICATION OF SOURCES AND SUBMITTALS
 - The Contractor shall, within ten (10) days following acceptance of bid, notify the Architect/Owner of the sources of plant materials and bed preparation required for the project.
 - Samples: Provide representative quantities of sandy loam soil, mulch, bed mix material, gravel, and crushed stone. Samples shall be approved by Architect before use on project.
 - C. Product Data: Submit complete product data and specifications on all other specified materials.
 - D. Submit three representative samples of each variety of ornamental trees, shrubs, and groundcover plants for Architect's approval. When approved, tag, install, and maintain as representative samples for final installed plant materials.
 - File Certificates of Inspection of plant material by state, county, and federal authorities with Architect, if required.
 - Soil Analysis: Provide sandy loam soil analysis if requested by the Architect.

PART 3 - EXECUTION

3.1 BED PREPARATION & FERTILIZATION

- Landscape Contractor to inspect all existing conditions and report any deficiencies to the Α.
- All planting areas shall be conditioned as follows: Β.
 - 1. Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six (6") inches prior to placing compost and fertilizer. Apply fertilizer as per manufacturers recommendations. Add six (6") inches of compost and till into a depth of six (6") inches of the topsoil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty (20) pounds per one thousand (1.000) square feet.
 - 2. All planting areas shall receive a two (2") inch layer of specified mulch. Backfill for tree pits shall be as follows: Use existing top soil on site (use imported topsoil as needed) free from large clumps, rocks, debris, caliche, subsoils, etc., placed in nine (9") inch layers and watered in thoroughly.
- C. Grass Areas:
 - 1. Areas to be Solid Sod Bermudagrass: Blocks of sod should be laid joint to joint. (staggered joints) after fertilizing the ground first. Roll grass areas to achieve a
 - smooth, even surface. The joints between the blocks of sod should be filled with
 - topsoil where they are evidently gaped open, then watered thoroughly. 2. Areas to be Hydromulch Common Bermudagrass: Hydromulch with bermudagrass seed at a rate of two (2) pounds per one thousand (1,000) square feet. Use a 4' x 8' batter board against the bed areas.
- 3.2 INSTALLATION
 - Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished
 - Plant materials shall be delivered to the site only after the beds are prepared and area ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and sun. Balls of earth of B & B plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.
 - Position the trees and shrubs in their intended location as per plan.
 - Notify the Landscape Architect for inspection and approval of all positioning of plant materials
 - Excavate pits with vertical sides and horizontal bottom. Tree pits shall be large enough to permit handling and planting without injury to balls of earth or roots and shall be of such depth that, when planted and settled, the crown of the plant shall bear the same relationship to the finish grade as it did to soil surface in original place of growth.

JOB CONDITIONS

- A. General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation, General Contractor shall leave planting bed areas three (3") inches below finish grade of sidewalks, drives and curbs as shown on the drawings. All lawn areas to receive solid sod shall be left one (1") inch below the finish grade of sidewalks, drives, and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work.
- General Contractor shall provide topsoil as described in Section 02200 Earthwork. В.
- Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage.
- 1.6 MAINTENANCE AND GUARANTEE

A. Maintenance:

- 1. The Landscape Contractor will be held responsible for the maintenance of all work from the time of planting until final acceptance by the Owner. No trees, shrubs, groundcover or grass will be accepted unless they show a healthy growth and
- satisfactory foliage conditions. Maintenance shall include watering of trees and plants, cultivation, weeding spraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
- 3. A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by Owner and Landscape Contractor will be completed prior to written acceptance.
- 4. After final acceptance of installation, the Landscape Contractor will not be required to do any of the above listed work.
- B. Guarantee:
 - Trees shall be guaranteed for a twelve (12) month period after acceptance. Shrubs and groundcover shall be guaranteed for twelve (12) months. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, including trees, which have partially died so that shape, size, or symmetry has been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.
 - a. Plants used for replacement shall be of the same size and kind as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in replacements, shall carry a twelve (12) month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately
 - b. At the direction of the Owner, plants may be replaced at the start of the next year's planting season. In such cases, dead plants shall be removed from the premises immediately.
 - c. When plant replacements are made, plants, soil mix, fertilizer and mulch are to be utilized as originally specified and reinspected for full compliance with Contract requirements. All replacements are to be included under "Work" of this section.
- Shrub and tree pits shall be no less than two (2') feet, twenty-four (24") inches, wider than the lateral dimension of earth ball and six (6") inches deeper than it's vertical dimension Remove and haul from site all rocks and stones over one (1") inch in diameter. Plants should be thoroughly moist before removing containers.
- Dig a wide, rough sided hole exactly the same depth as the height of the ball, especially at the surface of the ground. The sides of the hole should be rough and jagged, never slick or glazed.
- H. Percolation Test: Fill the hole with water. If the water level does not percolate within 24 hours, the tree needs to move to another location or have drainage added. Install a PVC stand pipe per tree planting detail as approved by the Landscape Architect.
- Backfill only with 5 parts existing soil or sandy loam and 1 part bed preparation. When the hole is duri in solid rock, topsoil from the same area should not be used. Carefully settle by watering to prevent air pockets. Remove the burlap from the top 1/3 of the ball, as well as all nylon, plastic string and wire mesh. Container trees will usually be pot bound, if so follow standard nursery practice of 'root scoring'.
- Do not wrap trees.

inches over the entire bed or pit.

Landscape Contractor.

- K. Do not over prune.
- Mulch the top of the ball. Do not plant grass all the way to the trunk of the tree. Leave the area above the top of the ball and mulch with at least two (2") inches of specified mulch.
- All plant beds and trees to be mulched with a minimum settled thickness of two (2")
- N. Obstruction below ground: In the event that rock, or underground construction work or obstructions are encountered in any plant pit excavation work to be done under this section, alternate locations may be selected by the Owner. Where locations cannot be changed, the obstructions shall be removed to a depth of not less than three (3') feet below grade and no less than six (6") inches below the bottom of ball when plant is properly set at the required grade. The work of this section shall include the removal from the site of such rock or underground obstructions encountered at the cost of the
- Trees and large shrubs shall be staked as site conditions require. Position stakes to
- Pruning and Mulching: Pruning shall be directed by the Architect and shall be pruned in accordance with standard horticultural practice following Fine Pruning, Class I pruning
- tandards provided by National Arborist Association. 1. Dead wood or suckers and broken badly bruised branches shall be removed. General
- tipping of the branched is not permitted. Do not cut terminal branches.
- 2. Pruning shall be done with clean, sharp tools. 3. Immediately after planting operations are completed, all tree pits shall be covered with a laver of organic material two (2) inches in depth. This limit of the organic material for trees shall be the diameter of the plant pit.

Q. Steel Curbing Installation:

- 1. Curbing shall be aligned as indicated on plans. Stake out limits of steel curbing and obtain Owners approval prior to installation.
- All steel curbing shall be free of kinks and abrupt bends. 3. Top of curbing shall be 3/4" maximum height above grade.

secure tree against seasonal prevailing winds.

- Stakes are to be installed on the planting bed side of the curbing, as opposed to the grass side. 2. Do not install steel edging along sidewalks.
- Cut steel edging at 45 degree angle where edging meets sidewalk.
- 3.3 CLEANUP AND ACCEPTANCE
 - A. Cleanup: During the work, the premises shall be kept neat and orderly at all times. Storage areas for all materials shall be so organized that they, too, are neat and orderly. All trash and debris shall be removed from the site as work progresses. Keep paved areas clean by sweeping or hosing at end of each days work.

END OF SECTION

- 2. The Owner agrees that for the guarantee to be effective, he will water plants at least twice a week during dry periods and cultivate beds once a month after final acceptance.
- 3. The above guarantee shall not apply where plants die after acceptance because of injury from storms, hail, freeze, insects, diseases, injury by humans, machines or
- 4. Acceptance for all landscape work shall be given after final inspection by the Owner provided the job is in a completed, undamaged condition, and there is a stand of grass in all lawn areas. At this time, the Owner will assume maintenance on the accepted work.
- Repairs: Any necessary repairs under the Guarantee must be made within ten (10) days after receiving notice, weather permitting, and in the event the Landscape Contractor does not make repairs accordingly, the Owner, without further notice to Contractor, may provide materials and men to make such repairs at the expense of the Landscape Contractor

1.7 QUALITY ASSURANCE

- General: Comply with applicable Federal. State, County and Local regulations governing landscape materials and work
- Personnel: Employ only experienced personnel who are familiar with the required work. Provide full time supervision by a qualified foreman acceptable to Landscape Architect.

Selection of Plant Material: C.

- 1. Make contact with suppliers immediately upon obtaining notice of contract acceptance to select and book materials. Develop a program of maintenance (pruning and fertilization) which will insure the purchased materials will meet and/or exceed project specifications. 2. Landscape Architect will provide a key identifying each tree location on site. Written
- verification will be required to document material selection, source and delivery schedules to site.
- 3. Owner and/or Architect shall inspect all plant materials when reasonable at place of growth for compliance with requirements for genus, species, cultivar/variety, size and
- 4. Owner and/or Architect retains the right to further inspect all plant material upon arrival at the site and during installation for size and condition of root balls, limbs, branching habit, insects, injuries, and latent defects.
- Owner and/or Architect may reject unsatisfactory or defective material at any time during the process of work. Remove rejected materials from the site immediately. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Preparation:

- . Balled and Burlapped (B&B) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape, and future development.
- 2. Container Grown Plants: Deliver plants in rigid container to hold ball shape and protect root mass.

A. Delivery:

- 1. Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored
- 2. Deliver only plant materials that can be planted in one day unless adequate storage
- and watering facilities are available on job site. 3. Protect root balls by heeling in with sawdust or other approved moisture retaining
- material if not planted within 24 hours of delivery. 4. Protect plants during delivery to prevent damage to root balls or desiccation of leaves.
- Keep plants moist at all times. Cover all materials during transport. 5. Notify Architect of delivery schedule 72 hours in advance so plant material may be
- observed upon arrival at job site. 6. Remove rejected plant material immediately from site.
- 7. To avoid damage or stress, do not lift, move, adjust to plumb, or otherwise manipulate plants by trunk or stems.

PART 2 - PRODUCTS

2.1 PLANTS

- Α. General: Well-formed No. 1 grade or better nursery grown stock. Listed plant heights are from tops of root balls to nominal tops of plants. Plant spread refers to nominal outer width of the plant, not to the outer leaf tips. Plants will be individually approved by the Architect and his decision as to their acceptability shall be final.
- Quantities: The drawings and specifications are complimentary. Anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plan.
- Quality and size: Plant materials shall conform to the size given on the plan, and shall be С. healthy, symmetrical, well-shaped, full branched, and well rooted. The plants shall be free from injurious insects, diseases, injuries to the bark or roots, broken branches, objectionable disfigurements, insect eggs and larvae and are to be of specimen quality.
- Approval: All plant materials shall be subject to the approval of the Owner. All plants which are found unsuitable in growth, or in any unhealthy, badly shaped, or undersized condition, will be rejected by the Landscape Architect, either before or after planting, and shall be removed at the expense of the Landscape Contractor and replaced with acceptable plants as specified.
- Trees shall be healthy, full-branched, well-shaped and shall meet the trunk diameter and height requirements of the plant schedule. Balls shall be firm, neat. slightly tapered, and well wrapped in burlap. Any tree loose in the ball or with broken ball at time of planting will be rejected. Balls shall be ten (10") inched in diameter for each one (1") inch of trunk diameter, Measured six (6") inched above ball. Nomenclature conforms to the customary nursery usage: for clarification, the term
- Pruning: All pruning of trees and shrubs, as directed by the Landscape Architect, shall be executed by the Landscape Contractor at no additional cost to the Owner.

"multi-trunk" defines a plant having three (3) or more trunks of nearly equal diameter



TREE PLANTING DETAIL

NOT TO SCALE

2.2 SOIL PREPARATION MATERIALS

A. Sandy Loam:

- 1. Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material and reasonably free of weeds and foreign grasses. Loam
- containing Dallasgrass or Nutgrass shall be rejected.
- 2. Physical properties as follows: Clay - between 7-27 percent
 - Silt between 15-25 percent Sand – less than 52 percent
- 3. Organic matter shall be 3%-10% of total dry weight.
- 4. If requested, provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.
- Organic Material: Compost with a mixture of 80% vegetative matter and 20% animal waste. Ingredients should be a mix of course and fine textured material.
- C. Premixed Bedding Soil as supplied by Vital Earth Resources, Gladewater, Texas; Professional Bedding Soil as supplied by Living Earth Technology. Dallas, Texas or Acid Gro Municipal Mix as supplied by Soil Building Systems, Dallas, Texas or approved equal.
- D. Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
- Mulch: Double Shredded Hardwood Mulch, partially decomposed, dark brown. Living Earth Technologies or approved equal.
- F. Organic Fertilizer: Fertilaid, Sustane, or Green Sense or equal as recommended for required applications. Fertilizer shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis.
- Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UF) with a minimum 8% sulphur and 4% iron, plus micronutrients.
- B. Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

2.3 MISCELLANEOUS MATERIALS

- A. Steel Edging: Shall be Ryerson "Estate Curbing", 1/8" x 4" with stakes 4' on center.
- B. Staking Material for Shade Trees:
 - 1. Post: Studded T-Post, #1 Armco with anchor plate; 6'-0" length; paint green.
 - 2. Wire: 12 gauge, single strand, galvanized wire. 3. Rubber hose: 2 ply, fiber reinforced hose, minimum 1/2 inch inside diameter. Color:
- C. Gravel: Washed native pea gravel, graded 1 in. to 1-1/2 in.
- D. Filter Fabric: Mirafi 140N by Celanese Fibers Marketing Company, available at Loftland Co., (214) 631-5250 or approved equal.

SHRUBS AND GROUNDCOVER

PREPARED SOIL MIX

PER SPECIFICATIONS

AND TOP OF CONCRETE

REFER TO PLANS FOR PLANT TYPES

1/2" MINIMUM BETWEEN TOP OF MULCH

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2101 AVONDALE HASLET RD. VISTA CROSSROADS ADDITION BLOCK 2, LOT 4 FORT WORTH, TEXAS

PROJECT CONTACT LIST

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FOR APPROVAL 10.26.2023

DATE: 10.26.2023

ISSUE:

SHEET NAME: LANDSCAPE SPECIFICATIONS

SHEET NUMBER:

TCEQ NOTES

- All irrigation equipment to be located no closer than 4" to any pavement and / or structure
- Electrical splices at each valve and controller only.
- Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TECQ) MC-178 / P.O. BOX 13087 Austn, Texas 78711-3087 www.teceq.state.tx.us

BUBBLE	R PIPING CHART
-5 BUB -10 BUB 1-20 BUB 1-30 BUB 1-40 BUB	BLERS - 1/2" PIPE BLERS - 3/4" PIPE 3BLERS - 1" PIPE 3BLERS - 1 1/4" PIPE 3BLERS - 1 1/2" PIPE
RRIGAT	ION LEGEND
	Hunter PRS30-04 4" Pop-up Spray Head with Plastic Hunter Pro Adjustable Nozzle
ð	Hunter PRS30-12 12" Pop-up Spray Head with Plastic Hunter Pro Adjustable Nozzle
	Hunter PGP Ultra-04 Rotors
3	Hunter Multi-Stream Bubbler Nozzle on Hunter PRS30-06 Pop-up Spray Head
€	Spray, Rotor & Bubbler Zones-Hunter PGV Control Valves (See Plan for Size) Drip Zones-Hunter ICZ Drip Zone Control Kits (See Plan for Size)
0	Hunter I-Core series Controller with Hunter Solar Sync Sensor
	WATER METER, SIZE AS INDICATED D.C.A., SIZE AS INDICATED to Include Wye Strainer, Isolation Valve, Master Valve, and Pressure Regulator
	PVC CLASS 200 LATERAL LINE
	PVC CLASS 200 MAINLINE

--- PVC SCHEDULE 40 SLEEVING . + — GPM

> HUNTER HDL-09-12-100-PC Drip Line and Fittings (12" LATERAL SPACING, 12" EMITTER SPACING) PVC LATERAL PIPING SIZED AS REQUIRED INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS

2" PRV	
2" Backflow per City code	
2" 'Y' Strainer	
2" Ball Valve	
Copper Pipe between Meter and Ball Valve	
Dedicated Irrigation Water Meter	
Verify size and location per Civil Plans	

SLEEVING NOTES

- 1. Contractor shall lay sleeves and conduits at twenty-four (24") inches below finish grade of the top of pavement.
- 2. Contractor shall extend sleeves one (1') foot beyond edge of all pavement.
- 3. Contractor shall cap pipe ends using PVC caps.
- 4. All sleeves shall be Schedule 40 PVC pipe.
- 5. Contractor shall furnish Owner and Irrigation Contractor with an 'as-built' drawing showing all sleeve locations.

Water Pressure Calculations

Static Pressure (at the water meter)- 65 psi Design Pressure for Remote Zone- 54.6 psi Pressure Losses for Remote Zone and Meter Components- 19.6 psi

Water Meter Components- Pressure Losses Master Valve Pressure- 2 psi Pressure Requlator- 1.2 psi Back Flow- 5 psi Wye Strainer-.75 psi

Irrigation Zones Pressure Losses- (most remote zone)

Main Line- 6.4 psi Valve- 2 psi Later Line- 1.4 psi Sprinkler requirements-35 psi

Ball Valve- .8 psi

VICINITY MAP N.T.S.

IRRIGATION NOTES

- 1. All sprinkler equipment numbers reference the HUNTER equipment catalog unless otherwise indicated.
- 2. LAWN SPRAY HEADS are SRS-04 installed as per detail shown.
- 3. SHRUB SPRAY HEADS are SRS-12 installed as per detail shown.
- 4. ELECTRIC CONTROL VALVES shall be HUNTER PGV-S SERIES installed per detail shown. Size valves as shown on plan. Valves shall be installed in value boxes large enough to permit manual operation, removal of solenoid and/or valve cover without any earth excavation.
- 5. AUTOMATIC CONTROLLER shall be installed at location shown. Power (120V) shall be located in a junction box within five (5') feet of controller location by other trades.
- 6. All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof.
- 7. SLEEVES shall be installed by General Contractor. Sleeve material shall be Schedule 40. Size as indicated on plan.
- 8. Ten days prior to start of construction, Landscape or Irrigation Contractor shall verify static water pressure. If static pressure is less than 65 P.S.I., do not work until notified to do so by Owner. The irrigation contractor shall also verify that the site plan matches what has been constructed on site. Any landscape area that is less that 48 inches wide must be drip irrigation. If discrepancies between the irrigation plan and what is on site is discovered the irrigation contractor shall notify the GC, Civil Engineer and Landscape Architect.
- 9. All main line and lateral piping to a minimum of 12 inches of cover. All piping under paving shall have a minimum of 18" of cover.
- 10. The Irrigation Contractor shall coordinate installation of the system with the Landscape Contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.
- 11. The Irrigation Contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles in parking lot islands and planting beds shall be low angle to minimize over spray on pavement surfaces. No water will be allowed to spray on building.

DRIP IRRIGATION NOTES

- 1. Drip Irrigation Equipment numbers reference Rainbird Equipment Catalog unless otherwise noted.
- 2. Landscape Contractor shall be required to supply Owner's Construction Manager with all equipment specifications and maintenance guidelines.
- 3. Landscape Contractor shall be required to follow Manufacturer's Specifications and Installation guidelines for drip system.
- 4. PRESSURE COMPENSATING EMITTERS shall be: Multioutlet Rain Bug EM6-M101, Multi outlet Shrub Bug EMT6-M101 or approved equal. (1 PER EVERY 6 - 4" POTS)
- 5. SINGLE OUTLET PRESSURE COMPENSATING EMITTERS shall be: Rain Bug Emitters EM-Mo5, -M10, -M20 and Shrub Bug Emitters EMT-M10, -M20 or approved equal. (1 PER EACH 1 OR 5 GAL PLANT)
- 6. DRIP PRESSURE REGULATORS shall be: PSI-HLA-15, PSI-HLA-20, PSI-HMB-20, PSI-HMB-25 or approved equal.
- 7. Y-FILTERS shall be: RBY-075-200, RBY-100-200 or approved equal.
- 8. MAIN IRRIGATION TUBING shall be:RBT-150P,RBT-160V or approved
- 9. EMITTER DISTRIBUTION TUBING shall be: RBT-150P, RBT-160V or approved equal.
- 10. SUBTERRANEAN EMITTER BOX shall be: SEB-6 or approved equal.
- 11. Drip system piping only occurs within shrub / groundcover beds and rock mulch areas. Piping shall be a maximum 4" depth and a minimum 2" depth.
- 12. Contractor shall verify that all drip system valves and spray system valves are sectioned separately on controller.

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ISSUE:

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FOR APPROVAL 10.26.2023 OWNERS COMMENTS 11.28.2023

DATE: 11.28.2023

SHEET NAME: **IRRIGATION PLAN**

SHEET NUMBER:

L.3

SECTION 02810 - IRRIGATION

PART 1 - GENERAL

1.1 SCOPE

- Provide complete sprinkler installation as detailed and specified herein, includes furnishing all labor, materials, and equipment for the proper installation. Work includes but is not limited to:

- 1. Trenching and backfill Automatic controlled system.
- 3. Upon completion of installation, supply drawings showing details of construction including location of mainline piping, manual and automatic valves, electrical supply to
- valves, and specifically exact location of automatic valves.
- 1.5 SUBMITTALS
 - Procedure: Comply with Division I requirements. А
 - Product Data: Submit (5) copies of equipment manufacturer's specifications and literature for approval by Landscape Architect prior to installation.
 - Project Record Documents

 - 1. Comply with Division L requirements. 2. Locate by written dimension, routing of mainline piping, remote control valves and quick coupling valves. Locate mainlines by single dimensions from permanent site features provided they run parallel to these elements. Locate valves, intermediate electrical connections, and quick couplers by two dimensions from a permanent site
 - feature at approximately 70 degrees to each other.
 - 3. When dimensioning is complete, transpose work to mylar reproducible tracings.

2.6 SCHEDULE 80 PVC NIPPLES A. Composed of Standard Schedule 40 PVC Fittings and PVC meeting noted standards. No Α. clamps or wires may be used. Nipples for heads and shrub risers to be nominal one-half inch diameter by eight inches long, where applicable. B B. Polyethylene nipples six (6") inches long to be used on all pop-up spray heads. 2.7 MATERIALS - See Irrigation Plan COPPER TUBING AND FITTING ASSEMBLY 3.4 A. Sprinkler heads in lawn area as specified on plan. PVC Pipe: Class 200, SPR 21 Copper Tubing (City Connection): Type "M" 3.5 POP-UP SPRAY HEADS 24V Wire: Size 14, Type U.F.

3.3 PVC PIPE AND FITTING ASSEMBLY

- Solvent: Use only solvent recommended by manufacturer to make solvent-welded joints. Thoroughly clean pipe and fittings of dirt, dust and moisture before applying solvent.
- PVC to metal connection: Work metal connections first. Use a non-hardening pipe dope such as Permatex No. 2 on threaded PVC adapters into which pipe may be welded.
- Clean pipe and fitting thoroughly and lightly sand pipe connections to remove residue from pipe. Attach fittings to tubing in an approved manner using 50-50 soft solid core solder.

3.10 FINAL ADJUSTMENT

MOUNT @ 4'-4" HT.=/-

BF PI UMB

FLOOR OR GRADE

After installation has been completed, make final adjustment of sprinkler system in preparation for Landscape Architect's final inspection. Completely flush system to remove debris from lines and turning on system. Check sprinklers for proper operation and proper alignment for direction of flow. Check each section of spray heads for operating pressure and balance to other sections by use of flow adjustment and top of each valve. Check nozzling for proper coverage. Prevailing wind conditions may indicate that arch of angle of spray should be other than shown on drawings. In this case, change nozzles to provide correct coverage.

END OF SECTION

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(13) DRIP CONTROL VALVE

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SHEET NAME: IRRIGATION SPECIFICATIONS

SHEET NUMBER:

L.4