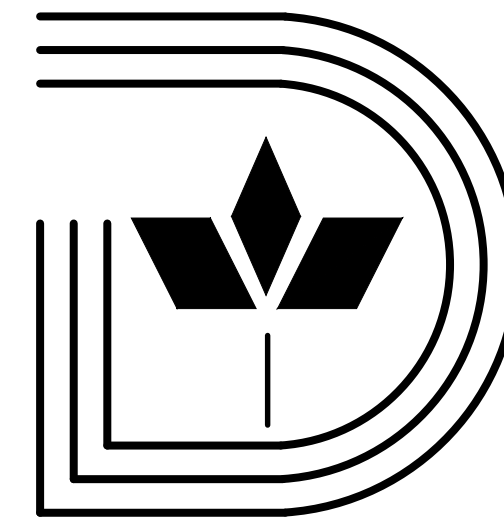
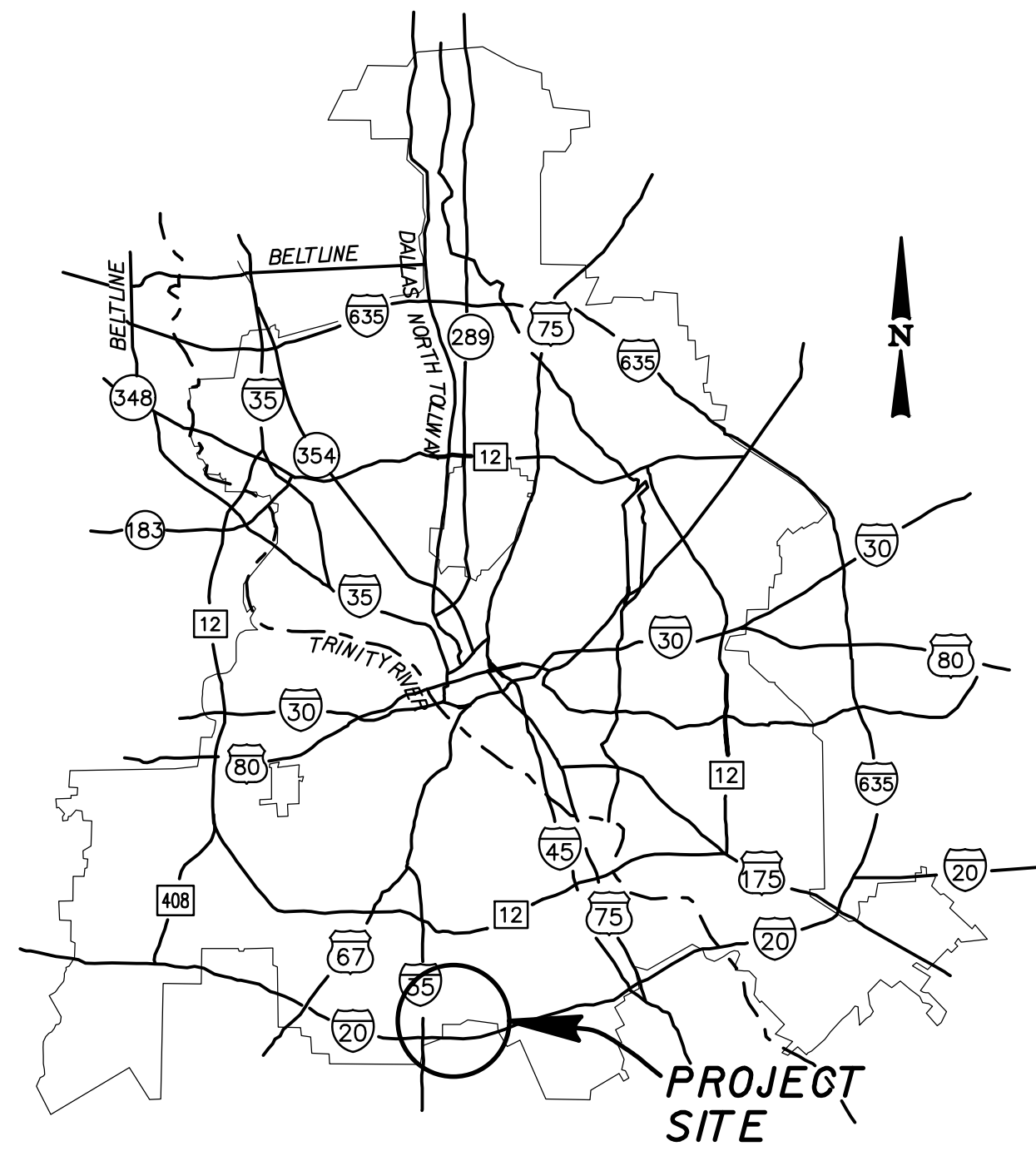


UNIVERSITY HILLS WASTEWATER PHASE 3 OPTION 1

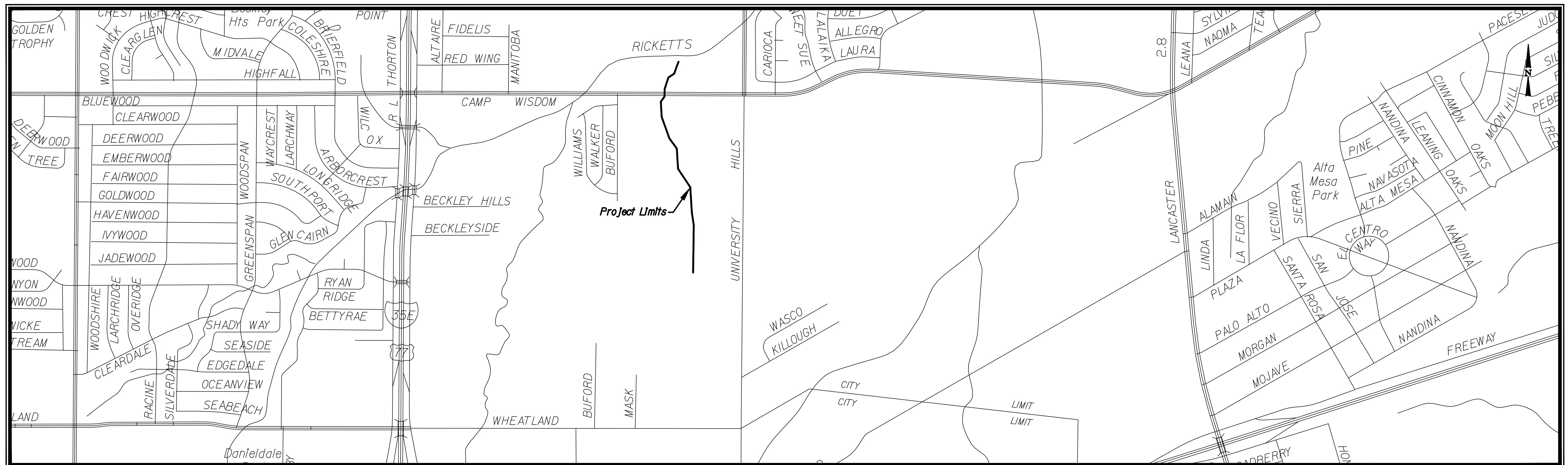


Dallas Water Utilities City Of Dallas, Texas Contract No.: 20 - 273/274 August 2020



MAPSCO 68 (L, M, R, V, Z),
69 (S, W, X) & 79 (A, B, C, G, H)

Description	Design Sheet
1. COVER	411Q-1722A Sht. 020
2. GENERAL NOTES	411Q-1722A Sht. 021
3. ALIGNMENT OVERVIEW & PROJECT CONTROL	411Q-1722A Sht. 022
4. WASTEWATER LINE "A" STA 0+00 TO STA 4+50	411Q-1722A Sht. 023
5. WASTEWATER LINE "A" STA 4+50 TO STA 9+00	411Q-1722A Sht. 024
6. WASTEWATER LINE "A" STA 9+00 TO STA 13+50	411Q-1722A Sht. 025
7. WASTEWATER LINE "A" STA 13+50 TO STA 18+00	411Q-1722A Sht. 026
8. WASTEWATER LINE "A" STA 18+00 TO STA 22+50	411Q-1722A Sht. 027
9. WASTEWATER LINE "A" STA 22+50 TO STA 27+00	411Q-1722A Sht. 028
10. WASTEWATER LINE "A" STA 27+00 TO STA 31+50	411Q-1722A Sht. 029
11. WASTEWATER LINE "A" STA 31+50 TO END	411Q-1722A Sht. 030
12. TREE PROTECTION DETAIL	411Q-1722A Sht. 031



Scale: 1" = 750'

GENERAL LEGENDS

GENERAL NOTES

GENERAL

	Benchmark
	Control Point
	Iron Pin Found
	Iron Pin Set
	Exist. ROW
	Prop. ROW
	ROW Centerline
	Alley ROW
	Exist. Easement
	Prop. Easement
	Corporation Line Marker
	Floodplain
	Exist. Structure/Building
	Prop. Structure/Building
	Bank/Slope Line
	Flow Line/Stream Line
	Bore Hole
TOPOGRAPHIC FEATURES	
	Tree
	Brush, Shrub, Wood
	Swamp
	Mail Box
	Ballards
	Irrigation Control Valve
	Chain Link/Other Fence
	Wood Fence
	Wrought Iron Fence
	Brick Wall
	Concrete Wall
	Retaining Wall
	Parking Meter
	Traffic Sign
	Traffic Signal Pole
	Street Lamp
	Railroad, Each Track

PAVEMENT

	Exist. Gravel
	Exist. Asphalt
	Exist. Brick
	Exist. Concrete
	Prop. Pavement

STORM DRAINS

	Exist. Storm Drain
	Exist. Storm Manhole
	Exist. Storm Inlet
	Prop. Storm Drain
	Prop. Storm Manhole
	Prop. Storm Inlet

UTILITIES

	Exist. Gas Line
	Exist. Gas Manhole
	Exist. Underground Electric Line
	Exist. Overhead Electric Line
	Exist. Electric Pad Mounted Transformer
	Exist. Electric Power Pole
	Exist. Electric Pole Anchor
	Exist. Electric Utility Manhole
	Exist. Electric Vault
	Exist. Telephone Line
	Exist. Telephone Utility Manhole
	Exist. Telephone Pedestal
	Exist. Fiber Optic Line
	Exist. Fiber Optic Manhole
	Exist. Cable TV Line
	Exist. Cable TV Manhole

WATER MAINS & APPURTENANCES

	Exist. 6" Water Main
	Exist. 8" to 27" Water Main
	Exist. 30" or Larger Water Main
	Prop. 6" Water Main
	Prop. 8" to 27" Water Main
	Prop. 30" or Larger Water Main
	Future Water Main

	Exist. Water Meter
	Exist. Water Manhole
	Exist. Water Vault
	Exist. Fire Hydrant
	Prop. Water Manhole
	Prop. Water Vault
	Prop. Fire Hydrant
	Exist. 11.25" Fitting
	Exist. 22.5" Fitting
	Exist. 45" Fitting
	Exist. 90" Fitting
	Exist. Reducer

	Exist. Tee
	Exist. Tapping Sleeve
	Exist. Cross
	Exist. Plug
	Exist. Blind Flange
	Cut & Plug
	Prop. 11.25" Fitting
	Prop. 22.5" Fitting
	Prop. 45" Fitting
	Prop. 90" Fitting
	Prop. Reducer
	Prop. Tee
	Prop. Tapping Sleeve
	Prop. Plug
	Prop. Blind Flange
	Exist. Gate Valve
	Exist. High/Low Valve
	Exist. Check Valve
	Exist. Flush Point
	Exist. Air Valve
	Exist. Cathodic Test Station
	Prop. Gate Valve
	Prop. High/Low Valve
	Prop. Check Valve
	Prop. Flush Point
	Prop. Air Valve
	Prop. Cathodic Test Station

WASTEWATER MAINS & APPURTENANCES

	Exist. 6" to 27" Wastewater Main
	Exist. 30" or Larger Wastewater Main
	Prop. 6" to 27" or Larger Wastewater Main
	Prop. 30" or Larger Wastewater Main
	Exist. Wastewater Manhole
	Exist. Wastewater Access Device
	Exist. Wastewater Cleanout
	Prop. Wastewater Manhole
	Prop. Wastewater Access Device
	Prop. Wastewater Cleanout
	Remove & Replace Exist. Manhole

PROJECT CONTACTS

DWU PROJECT MANAGER:	RICK LUCAS	214 - 671 - 9532
DWU DISTRIBUTION DIVISION:	JOHNNY PARTAIN	214 - 670 - 8796
DWU WASTEWATER COLLECTION DIVISION:	JASON WU	214 - 243 - 1526
CITY OF DALLAS PW&T - TRAFFIC CONTROL:	RUSSELL FINLEY	469 - 583 - 3654

GENERAL

- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction (Version 4) and City of Dallas Addendum (October, 2011) to these specifications.
- Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction (October, 2017).
- All items of work required to complete the work as shown or implied by the plans and as specified in the contract documents which are not listed as a pay item in the proposal shall be considered subsidiary.
- The location, elevations and dimensions of existing utilities shown on the plans as obtained from The City of Dallas and utility company records, are considered approximate. The Engineer does not certify that all utilities are shown. The Contractor shall verify exact locations, sizes and depths of existing utilities before beginning construction (including ordering pre-cast manholes and concrete pipe if applicable). NO SEPARATE PAY ITEM.
- The Contractor shall contact Texas Excavation Safety System (800-DIG-TESS; 800-344-8377) and relevant utility companies 48 hours prior to locating existing utilities and/or construction activities.
- The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense.
- The Contractor shall support telephone conduits, storm drains, water and wastewater mains when going under said utilities. NO SEPARATE PAY ITEM.
- Power poles may have to be braced at the Contractor's expense.
- No machinery, construction access or storage shall be allowed on park property beyond the limits of the temporary workspace as defined by the City of Dallas Inspector.
- Contractor shall install temporary orange fencing along easement limits on private property prior to beginning work. Fencing shall be 48" tall, fastened to steel T-Posts at a max distance of 96" or as recommended by fence manufacturer. Contractor shall stake the 30 foot utility easement with wood laths and flagging at all points of inflection and every 100 feet prior to construction. The Contractor shall not work outside the 30 foot utility easement without permission of the existing property owner. NO SEPARATE PAY ITEM.
- Contractor is responsible for securing additional workspace outside of easement limits. If additional workspace is required, Contractor shall coordinate with Property Owner prior to beginning work.
- The Contractor shall not place fill or waste material on any private property without prior written agreement with Property Owner and City.
- No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the City. If the Contractor places excess material in areas without written permission, he shall be responsible for all damage resulting from such fill and he shall remove the material at his own cost if the Owner so directs.
- Embedment, backfill and all other materials will NOT be permitted to be stockpiled in the floodplain. All material stockpile and equipment storage locations to be approved by the City prior to construction and in advance of placement.
- The Contractor shall clean up and remove all trash and debris caused by the construction and maintenance of the project. After all such activities, the Contractor shall return the surface of the properties to the pre-construction condition.
- The Contractor shall promptly restore any damages that may occur to the property, which restoration shall be to at least the same condition that the property was in prior to the damages and subject to the Owner's prior approval. The Contractor shall furnish a letter to the City, signed by the owner, evidencing that the owner is satisfied that the property has been restored to the condition of the property prior to activities related to the project. NO SEPARATE PAY ITEM.

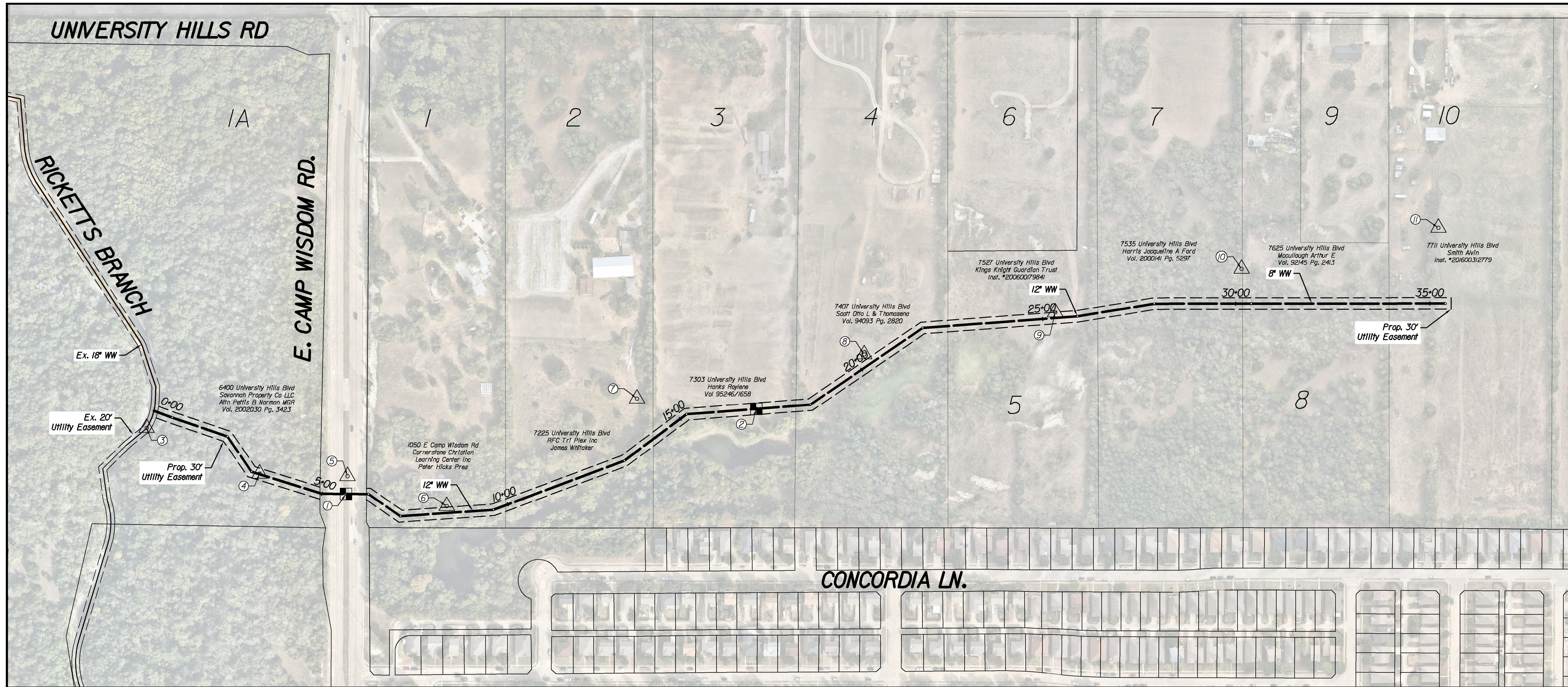
WASTEWATER MAIN AND APPURTENANCES

- The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- All proposed manholes shall be a minimum of 18 inches above ground and a maximum of 24 inches above ground.

TREES AND LANDSCAPING

- Contractor shall not damage or remove any trees or landscaping unless shown on the plans or otherwise authorized by the City of Dallas Inspector. Any unauthorized trees or landscaping that are damaged or removed during the construction shall be replaced by the contractor at his expense. Refer to tree protection details.

Horizontal Scale: as shown					
REFERENCES WATER 59-24W, 60-24W, 61-24W, 62-24W WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S					
Kimley»Horn PID: 6114 CONTRACT NO. 20 - 273/274					
GENERAL NOTES PHASE 3 OPTION I UNIVERSITY HILLS BLVD DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	411Q	1722A	021



Scale: 1" = 150'

Notes:
 1. Horizontal Control based on NAD 1983 State Plane (North Central Texas). Coordinates provided are surface. Dallas County grtd to surface Factor 1s 1.000136506.
 2. Survey was performed by BDS Technologies Inc. from October to December 2019.

Legend

- Geotech Bore Hole
- Survey Control Point
- Benchmark
- Prop. Easement
- Prop. Alignment
- Ex. Property Line

BORE TABLE				
POINT #	NORTHING	EASTING	STATION	DESCRIPTION
1	6928094.84	2488578.32	5+62	Bore Hole
2	6927043.08	2488819.52	17+00	Bore Hole

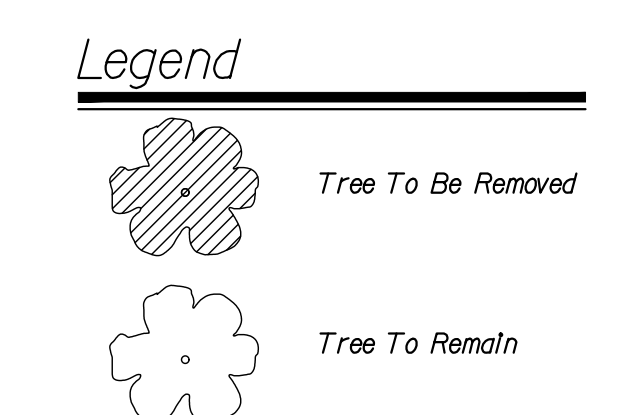
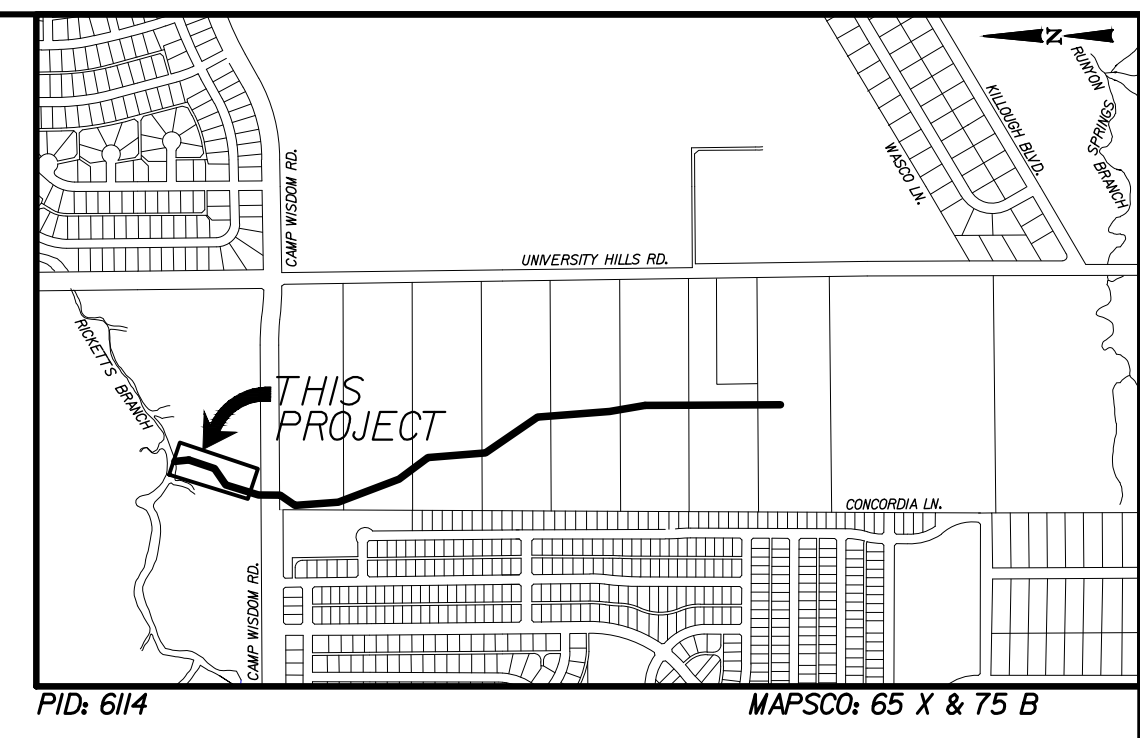
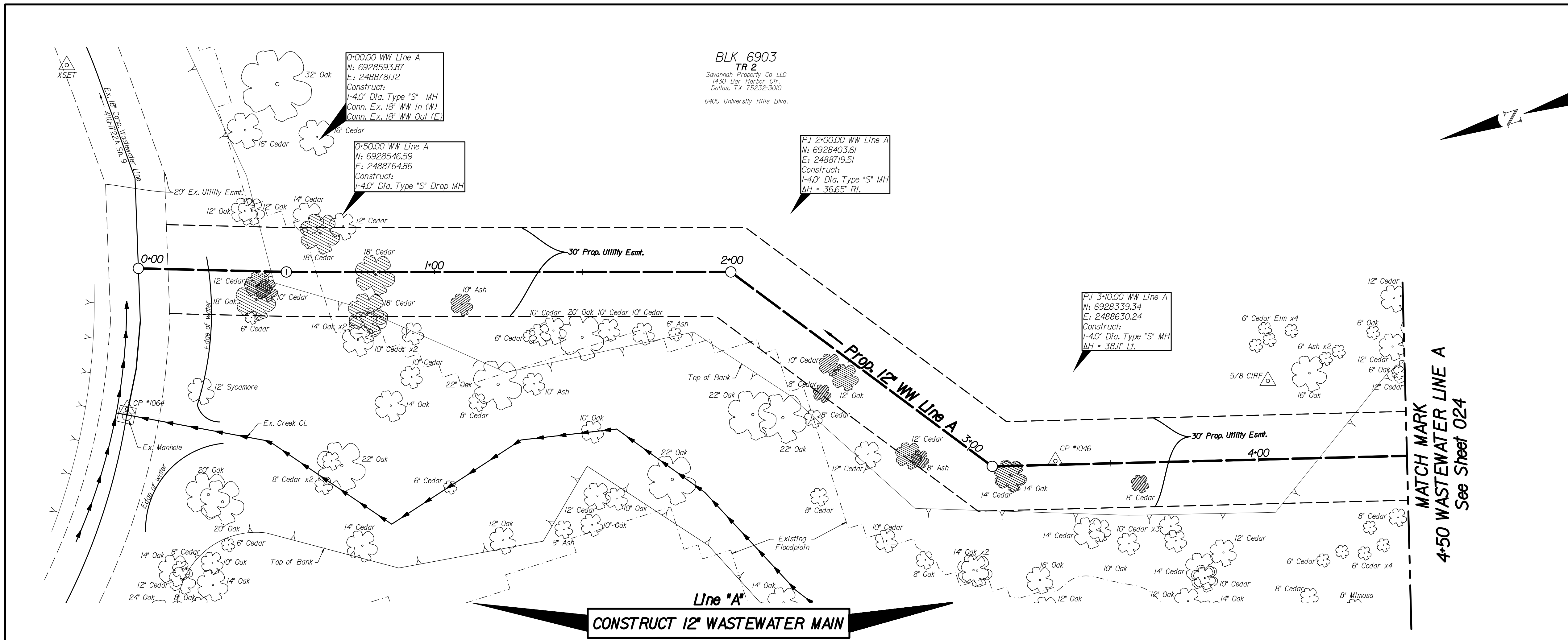
CONTROL POINT TABLE					
POINT #	NORTHING	EASTING	ELEVATION	CONTROL POINT	DESCRIPTION
3	6928611.85	2488736.93	480.210	1064	"X" Cut
4	6928318.51	2488625.50	514.540	1046	5/8" Capped Iron Rod Set
5	6928091.99	2488624.20	527.300	882	5/8" Capped Iron Rod Set
6	6927834.66	2488552.48	528.530	5110	5/8" Capped Iron Rod Set
7	6927350.68	2488839.34	547.920	1212	5/8" Capped Iron Rod Set
8	6926768.10	2488965.66	552.970	2770	5/8" Capped Iron Rod Set
9	6926278.49	2489084.57	561.250	2667	5/8" Capped Iron Rod Set
10	6925800.85	2489206.32	575.910	1965	5/8" Capped Iron Rod Set
11	6925296.31	2489322.67	592.840	2848	5/8" Capped Iron Rod Set

BENCHMARK TABLE				
POINT #	NORTHING	EASTING	ELEVATION	CITY BENCHMARK
12	6922850.02	2489924.01	571.652	75-B-1
13	6919989.12	2482750.11	622.360	74-G-25

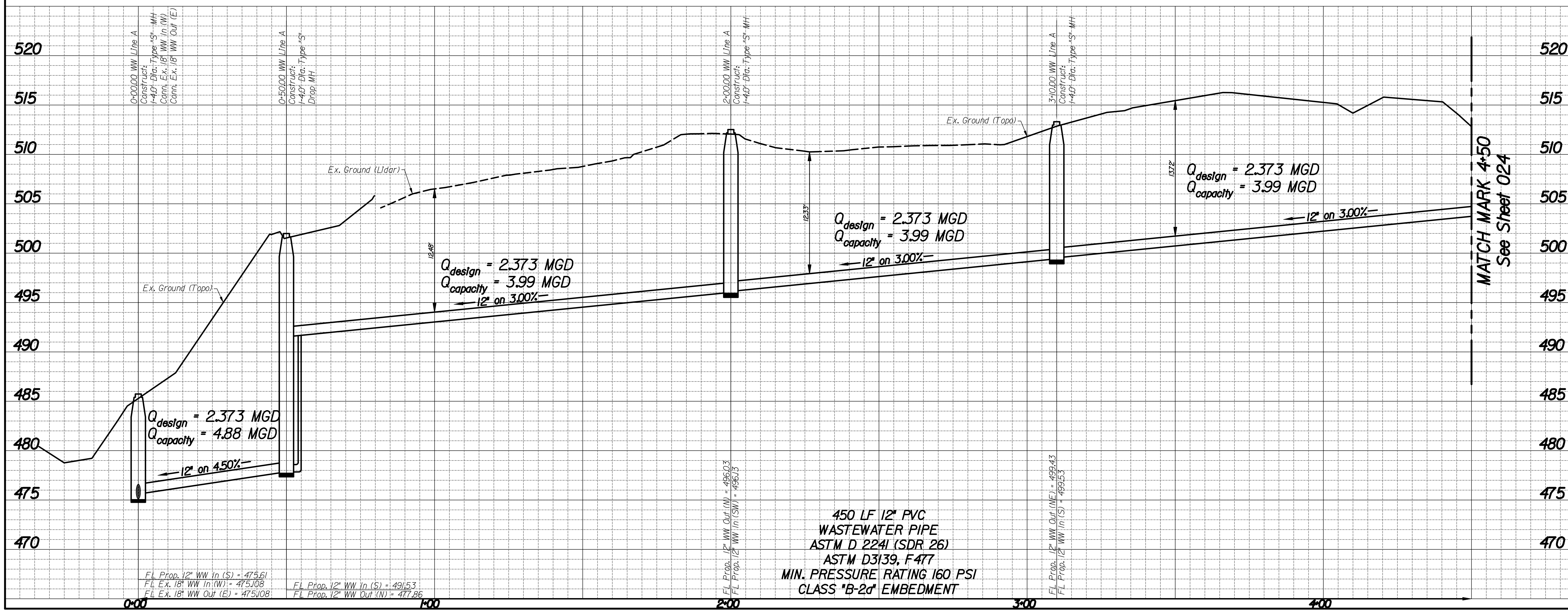


Scale: 1" = 1200'

Horizontal Scale: as shown		
<p>REFERENCES</p> <p>WATER 59-24W, 60-24W, 61-24W, 62-24W</p> <p>WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S</p>		
Kimley»Horn		
PID: 6114		CONTRACT NO. 20 - 273/274
ALIGNMENT OVERVIEW & PROJECT CONTROL		
PHASE 3 OPTION 1		
UNIVERSITY HILLS BLVD		
DALLAS WATER UTILITIES		
CITY OF DALLAS, TEXAS		
DESIGN	DRAWN	DATE
AKM	JDC	AUG 2020
FILE	NUMBER	SHEET
411Q	1722A	022



- Notes:**
- See Sheet 411Q-1722A Sh. 021 for General Notes.
 - The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *2241
Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection.
ELEV = 571.652 MAPSCO 619

BENCHMARK *2238
Std WDBM on the southeast corner of concrete storm sewer Inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd.
ELEV = 622.366 MAPSCO F19

CONTROL POINT *1064
1" x 1" Cut
N. 6928611.848; E. 2488736.930; ELEV. = 480.21

CONTROL POINT *1046
3" Curved Iron Rod Set
N. 6928318.507; E. 2488625.504; ELEV. = 514.54

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES

WATER
59-24W, 60-24W, 61-24W, 62-24W

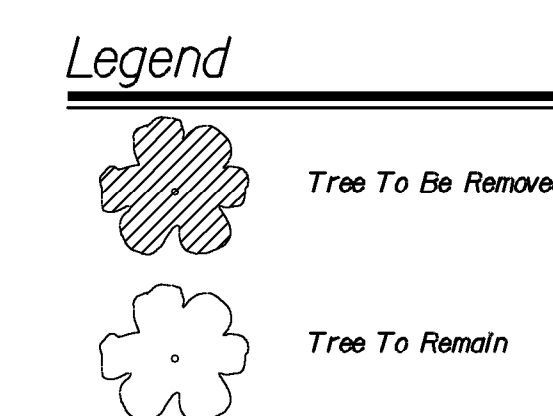
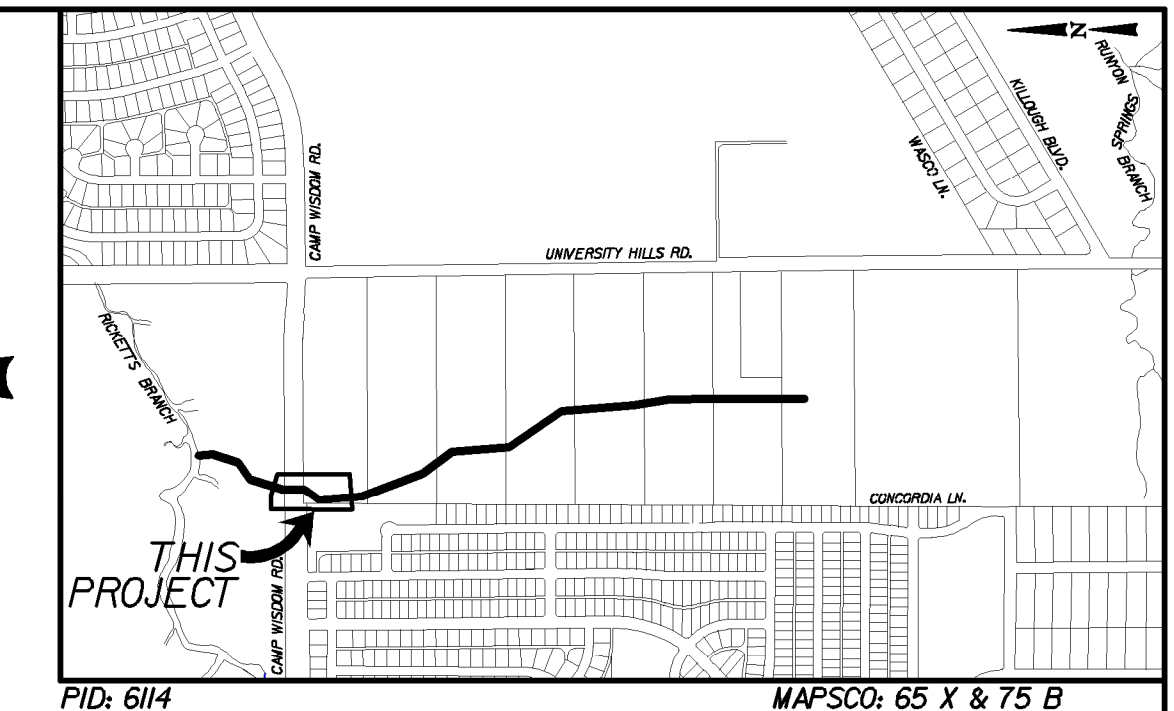
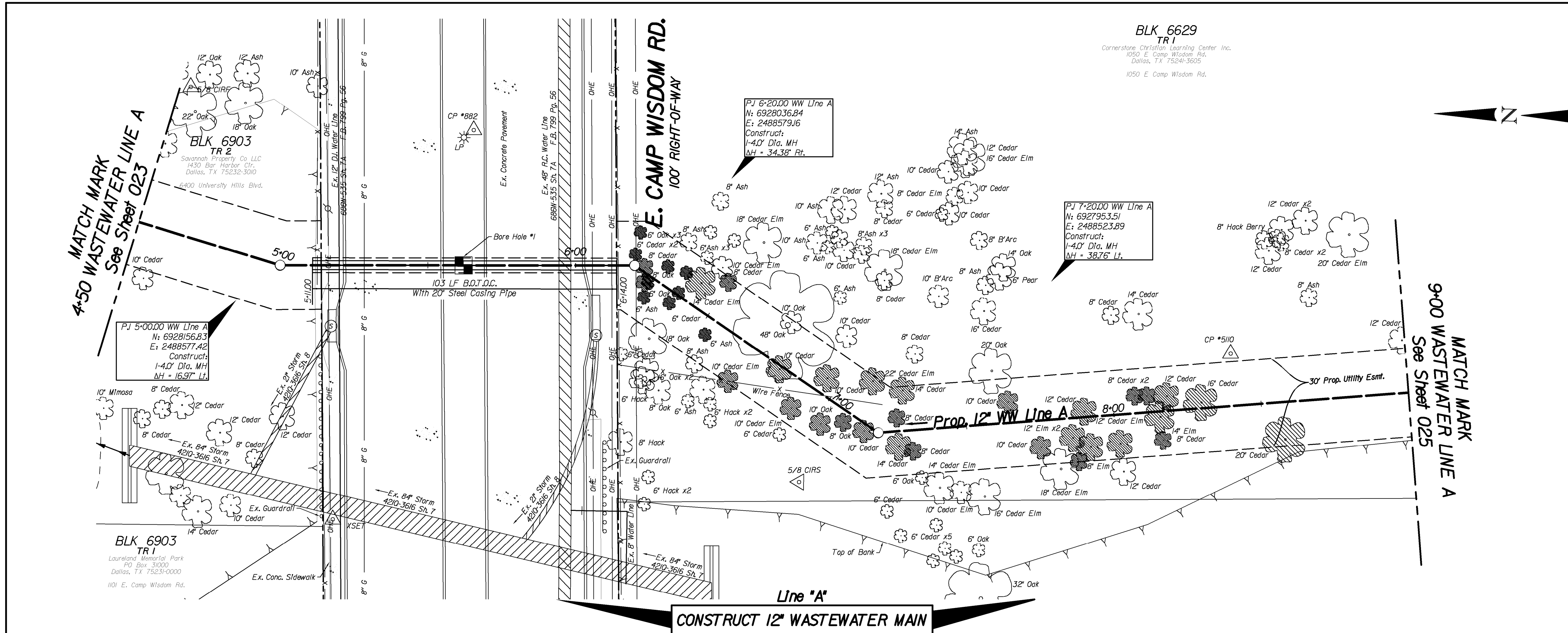
WASTEWATER
59-24S, 60-24S, 61-24S, 62-24S

Kimley»Horn

PID: 6114 CONTRACT NO. 20 - 273/274

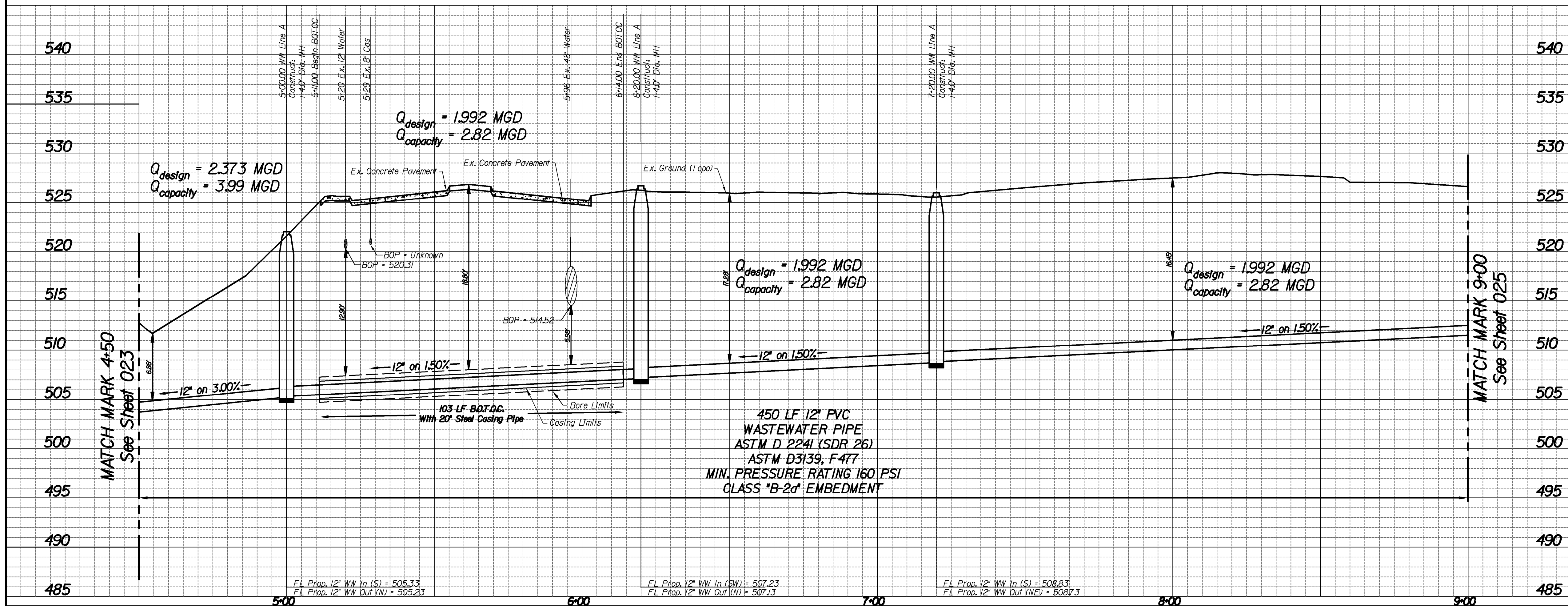
12" & 8" WASTEWATER
PHASE 3 OPTION 1
UNIVERSITY HILLS BLVD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	411Q	1722A	023

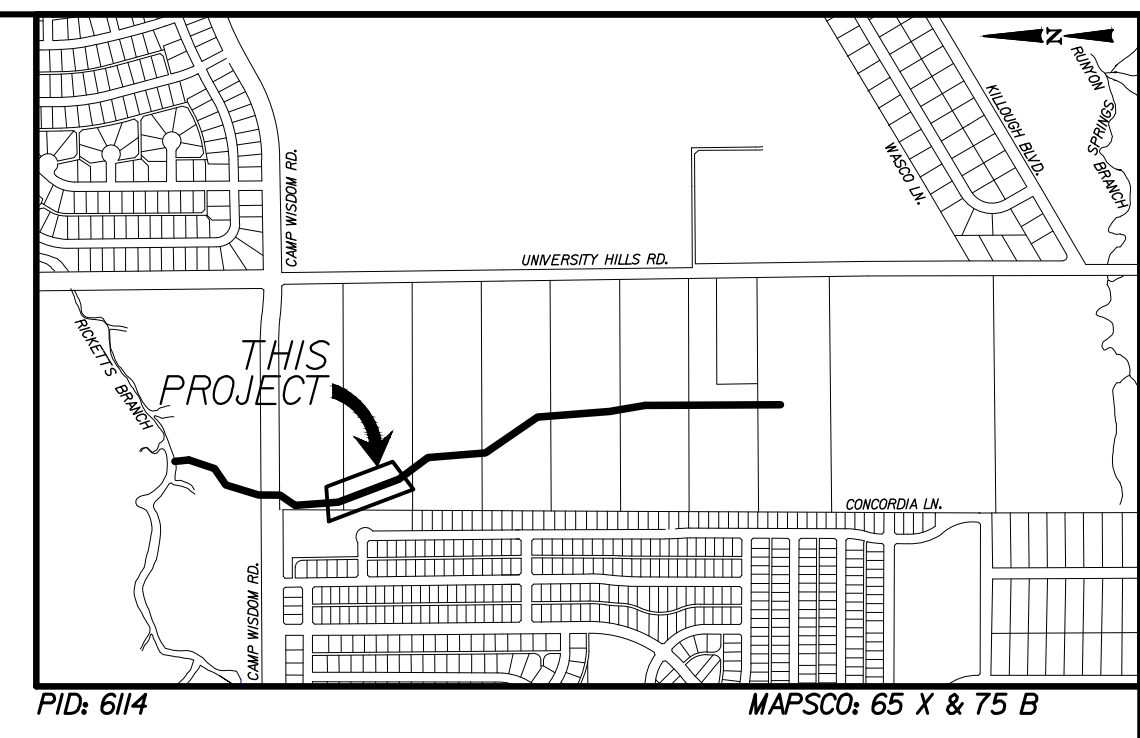


CAUTION ~ GAS !
 Underground Gas Main in Area
 Contact ATMOS Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377 / 1-800-545-6005

Notes:
 1. See Sheet 411Q-1722A Sh. 021 For General Notes.
 2. The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.



REVISIONS				
REV NO.	DATE	DESCRIPTION	BY	
BENCHMARKS & CONTROL POINTS				
BENCHMARK *2241 Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection. ELEV - 571.652 MAPSCO 619				
BENCHMARK *2238 Std WDBM on the southeast corner of concrete storm sewer Inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd. ELEV - 622.366 MAPSCO F19				
CONTROL POINT *882 Capped Iron Rod Set N. 6928091988; E. 2488624197; ELEV. - 527.30				
CONTROL POINT *510 Capped Iron Rod Set N. 6927834663; E. 2488552481; ELEV. - 528.53				
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER 59-24W, 60-24W, 61-24W, 62-24W				
WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S				
Kimley»Horn				
PID: 6114		CONTRACT NO. 20 - 273/274		
12" & 8" WASTEWATER PHASE 3 OPTION I UNIVERSITY HILLS BLVD DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS				
DESIGN	DRAWN	DATE	FILE	NUMBER
AKM	JDC	AUG 2020	411Q	1722A 024

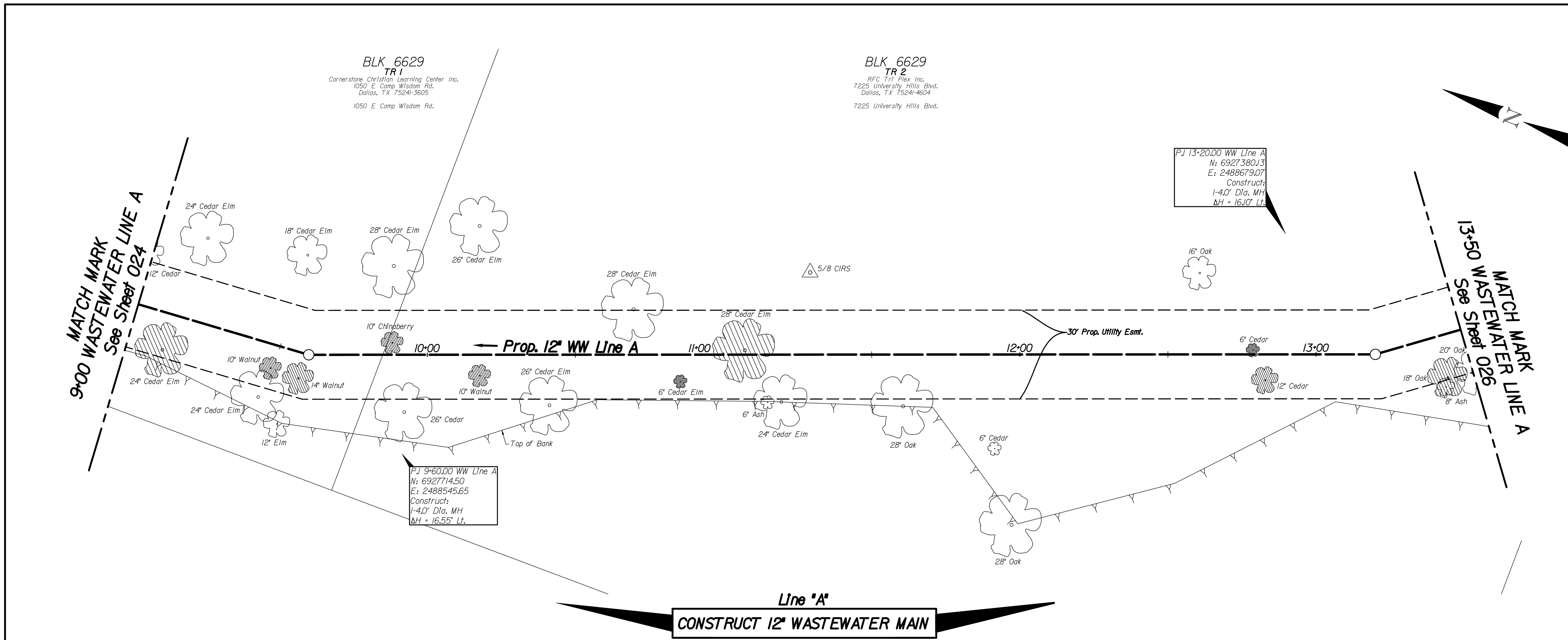


PID: 6114 MAPSCO: 65 X & 75 B

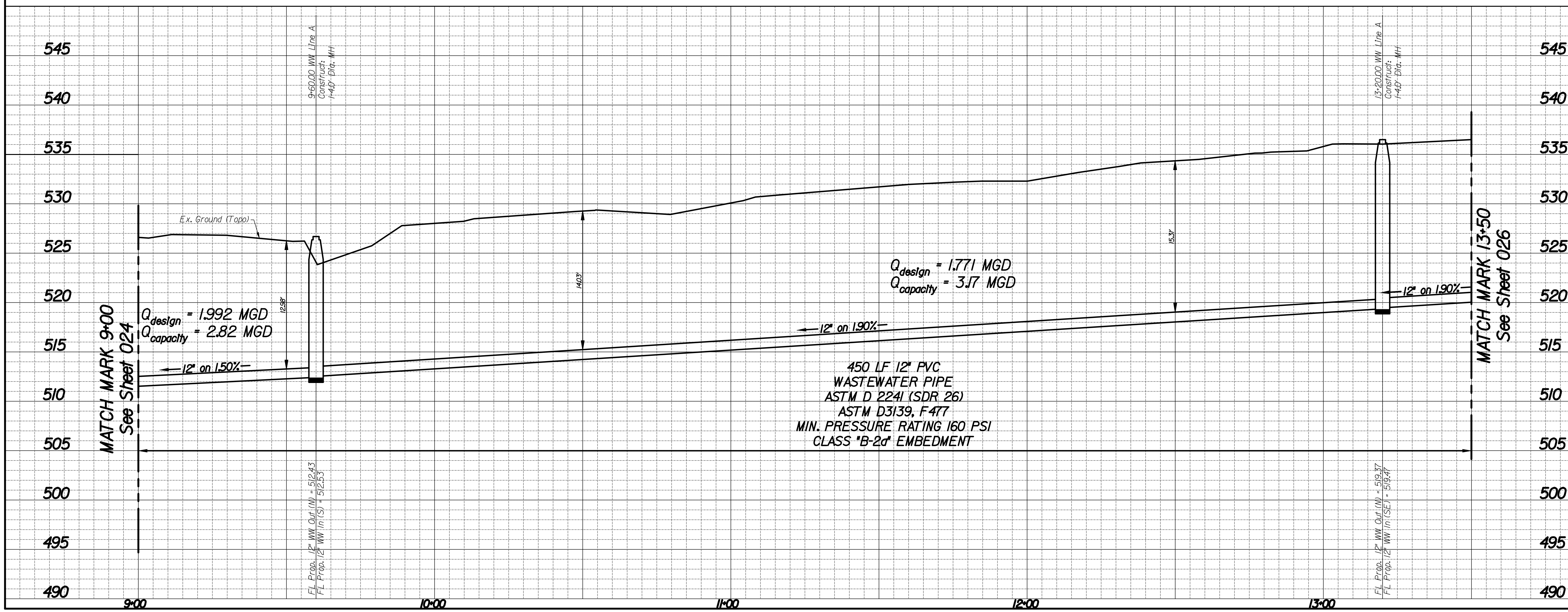
Legend



- Notes:**
1. See Sheet 41Q-1722A Sh. 021 for General Notes.
 2. The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.



Line 'A'
CONSTRUCT 12\"/>

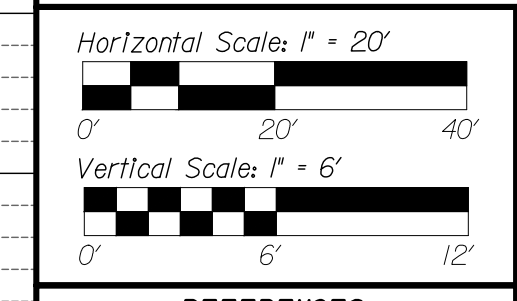


REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *2241
Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection.
ELEV = 571.652 MAPSCO 619

BENCHMARK *2238
Std WDBM on the southeast corner of concrete storm sewer inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd.
ELEV = 622.366 MAPSCO F19



REFERENCES

WATER
59-24W, 60-24W, 61-24W, 62-24W
WASTEWATER
59-24S, 60-24S, 61-24S, 62-24S

Kimley»Horn

PID: 6114 CONTRACT NO. 20 - 273/274

12\"/>

PHASE 3 OPTION 1
UNIVERSITY HILLS BLVD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	41Q	1722A	025

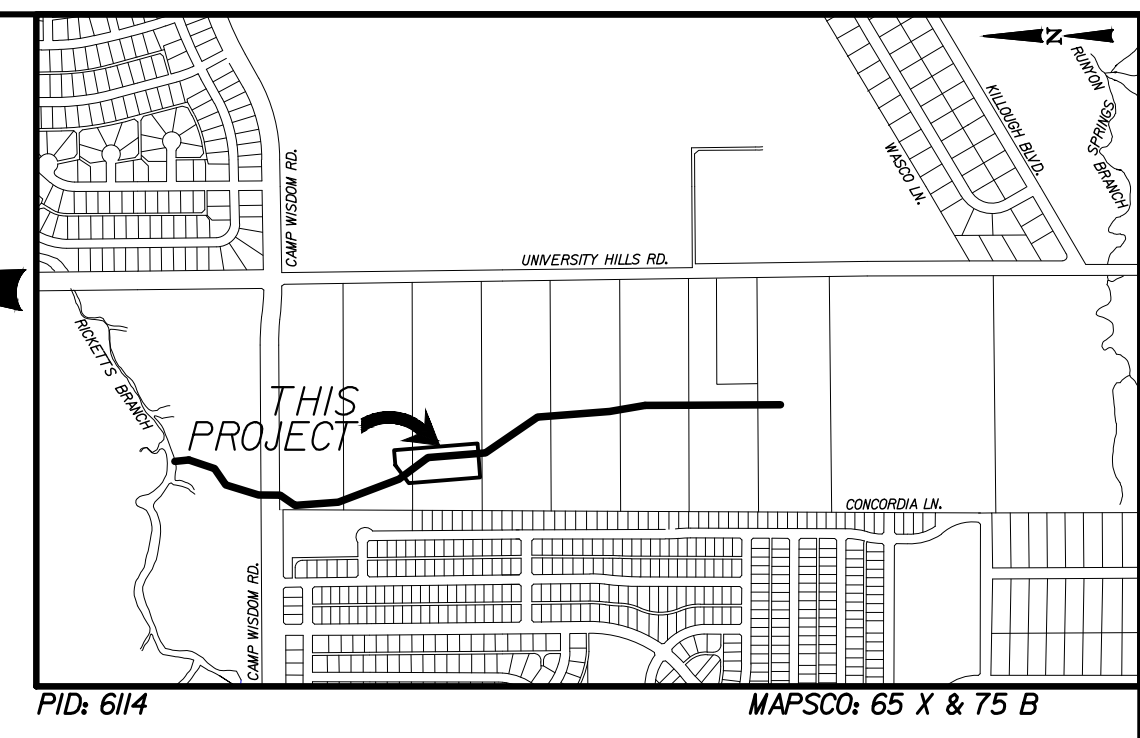
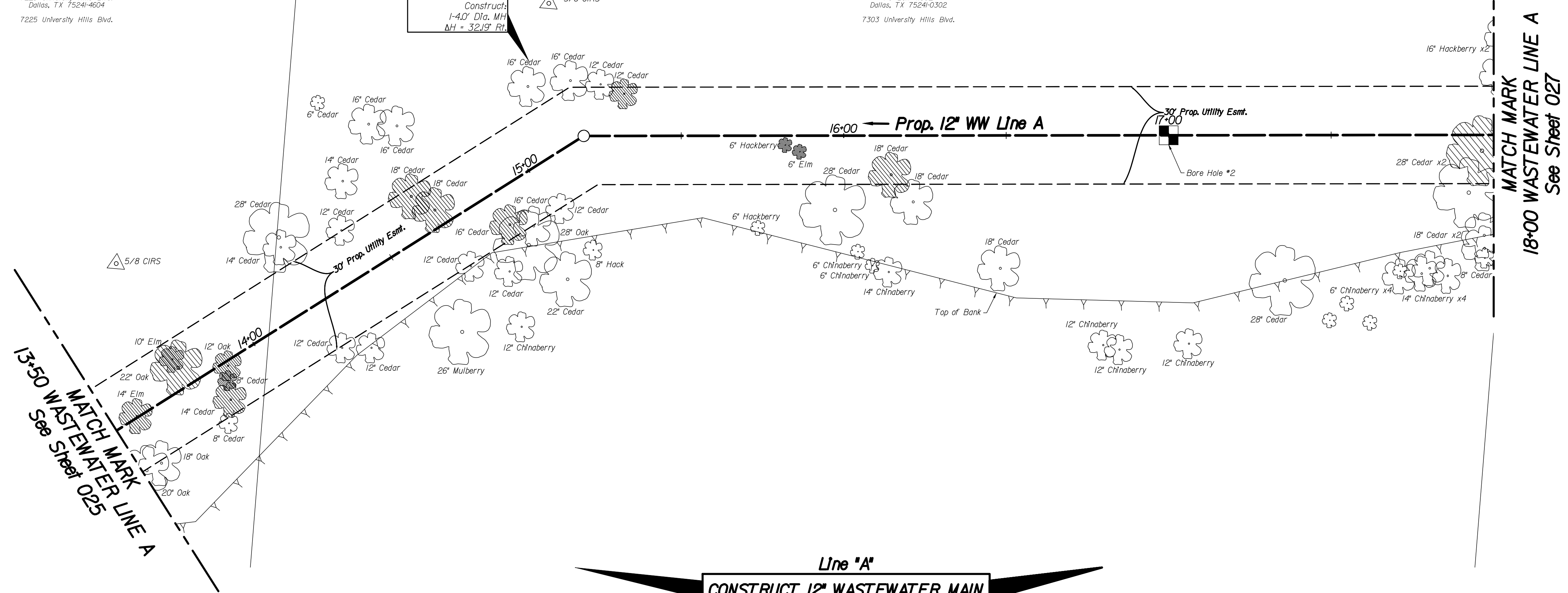
BLK 6629
TR 2
R.F.C. T.H. Piles, Inc.
7225 University Hills Blvd.
Dallas, TX 75241-4604
7225 University Hills Blvd.

CP *1212

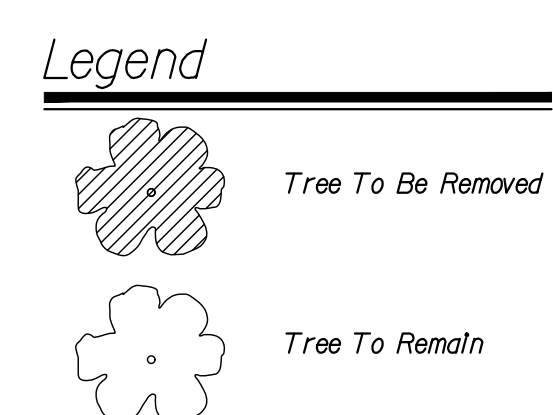
PJ 15-20.00 WW Line A
N: 6927222.20
E: 2488801.78
Construct:
1-4.0' Dia. MH
MH - 32.97' Flt

5/8 CIRCS

BLK 6629
TR 3
Raylene Hanks
P.O. Box 43302
Dallas, TX 75241-0302
7303 University Hills Blvd.

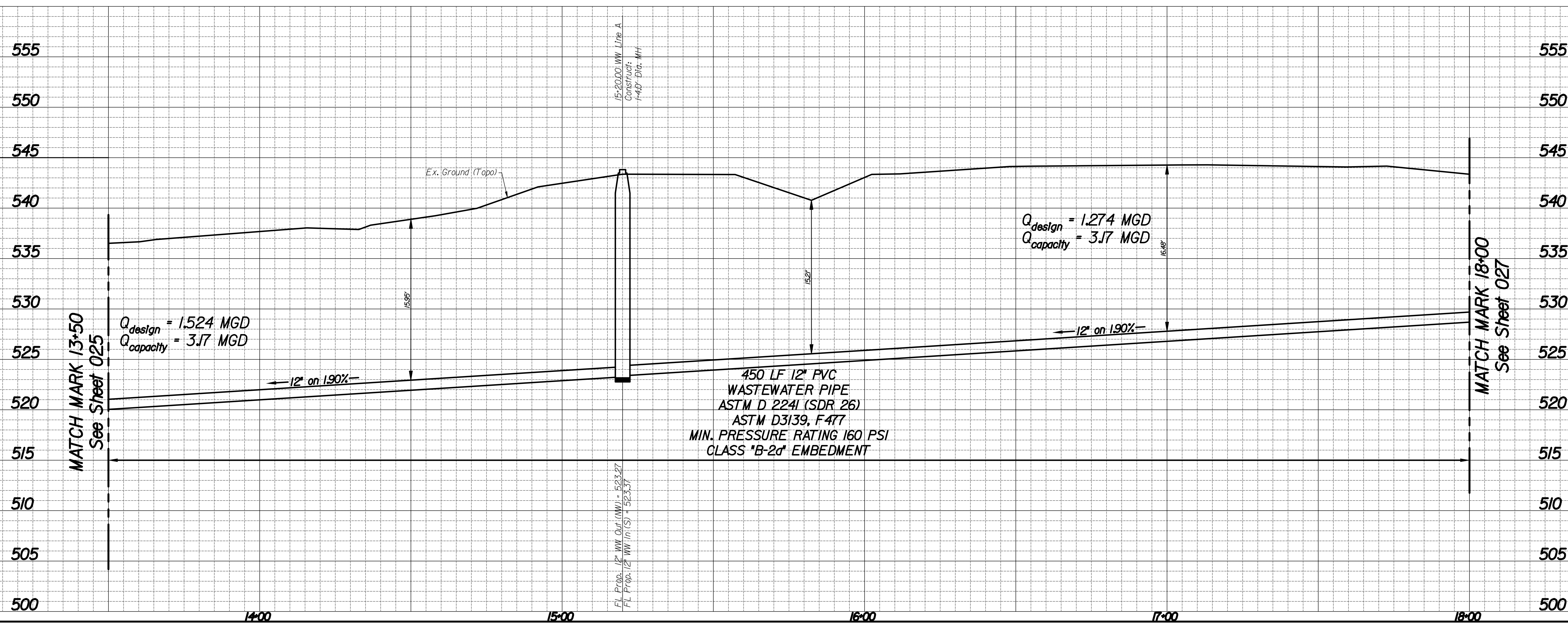


PID: 6114 MAPSCO: 65 X & 75 B



- Notes:**
1. See Sheet 411Q-1722A Sh. 021 for General Notes.
 2. The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.
 3. Contractor shall ensure no trash or debris enters existing pond on property. The contractor shall be responsible for any damages that occur to pond and will restore pond to equal or better than pre-construction condition. No separate pay item.

Line 'A'
CONSTRUCT 12\"/>



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *2241
Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection.
ELEV = 571.652 MAPSCO 619

BENCHMARK *2238
Std WDBM on the southeast corner of concrete storm sewer Inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd.
ELEV = 622.366 MAPSCO F19

CONTROL POINT *1212
3' Capped Iron Rod Set
N. 6927350.677; E. 2488839.339; ELEV. = 547.92

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER: 59-24W, 60-24W, 61-24W, 62-24W
WASTEWATER: 59-24S, 60-24S, 61-24S, 62-24S

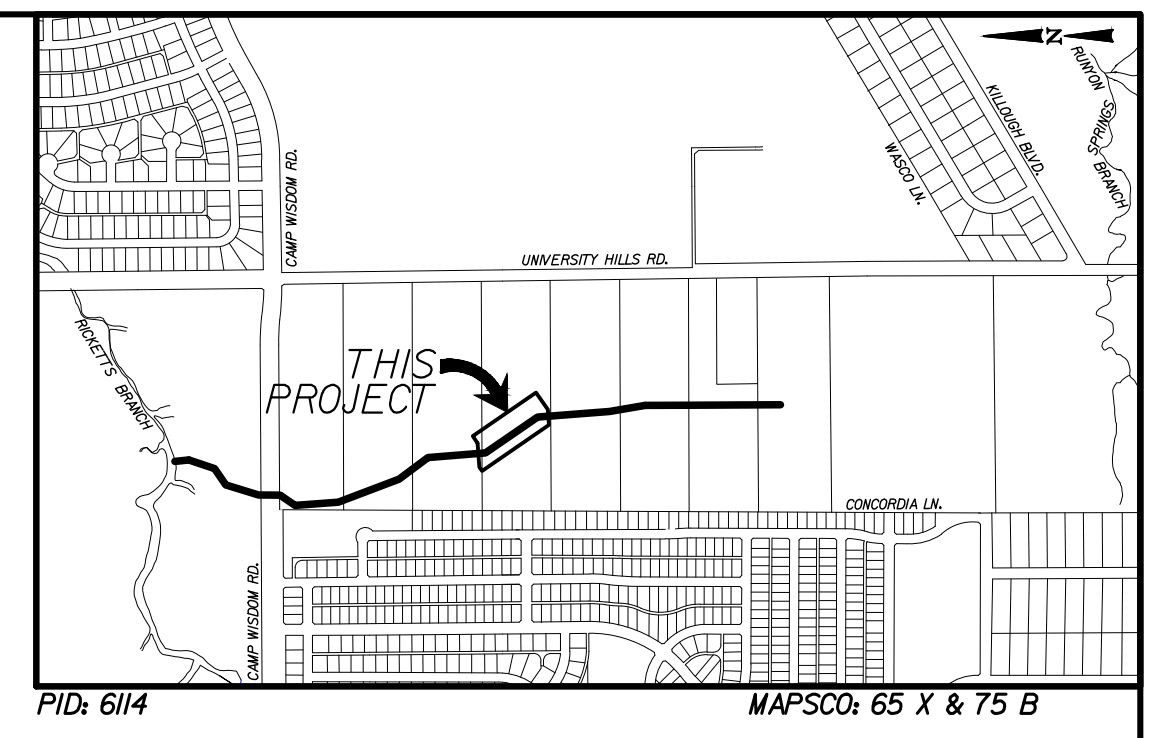
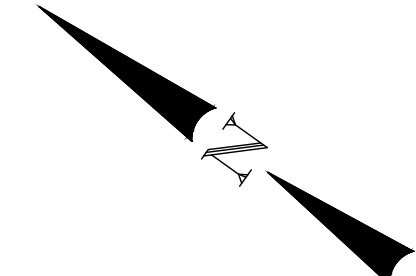
Kimley»Horn
PID: 6114 CONTRACT NO. 20 - 273/274

**12" & 8" WASTEWATER
PHASE 3 OPTION I
UNIVERSITY HILLS BLVD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS**

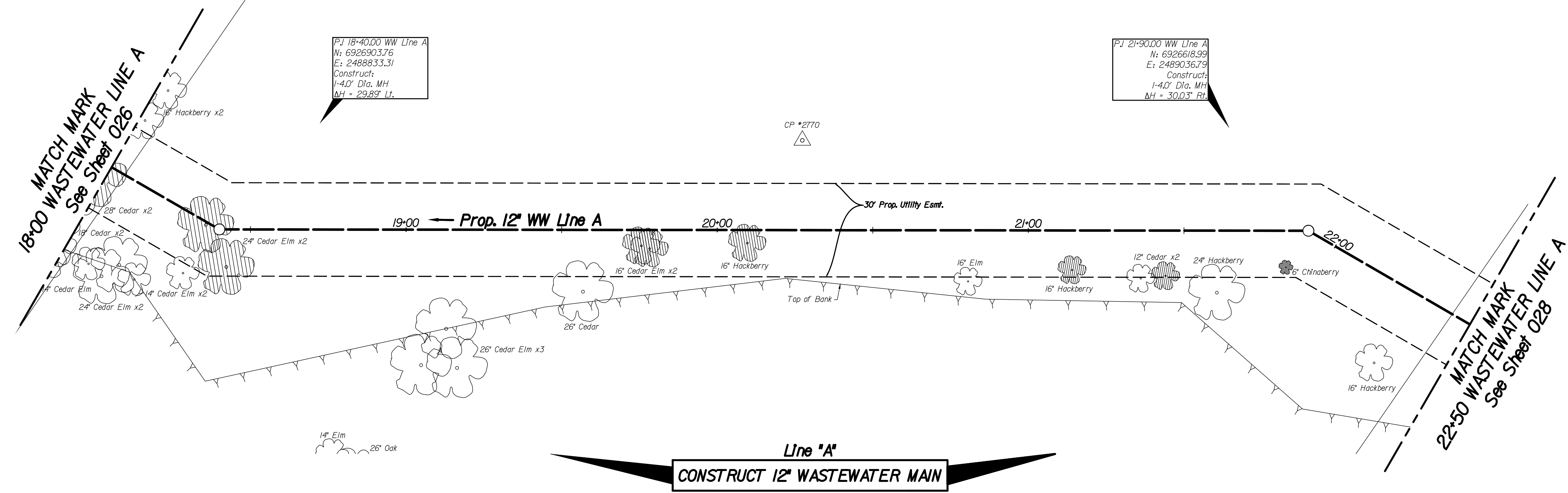
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	411Q	1722A	026

BLK 6629
TR 3
Raylene Hanks
PO Box 4302
Dallas, TX 75240-0302
7303 University Hills Blvd.

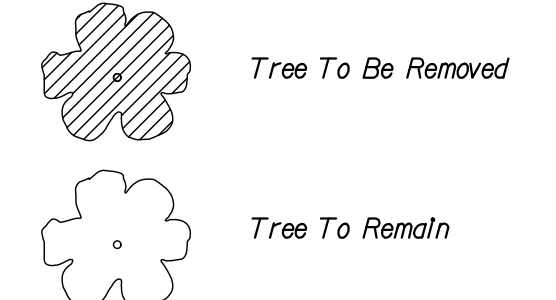
BLK 6629
TR 4
Otto L & Thomas Scott
7407 University Hills Blvd.
Dallas, TX 75241-4608
7407 University Hills Blvd.



PID: 6114 MAPSCO: 65 X & 75 B

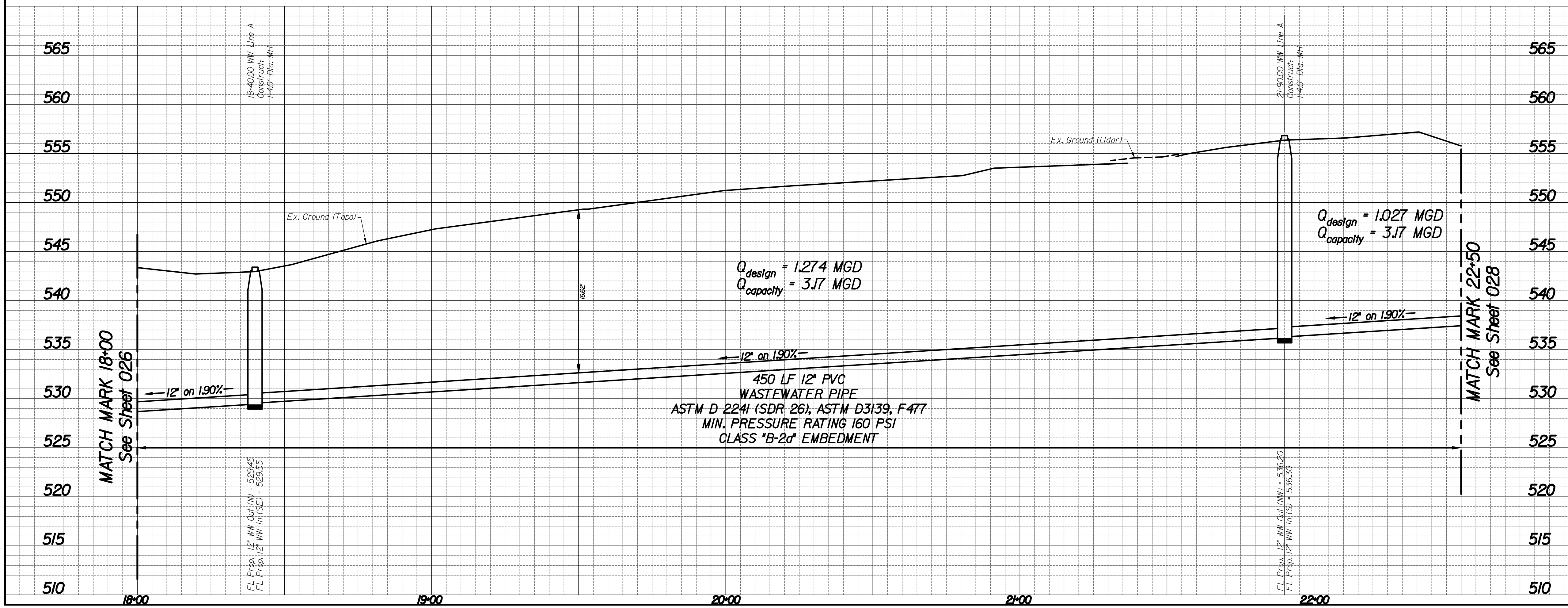


Legend

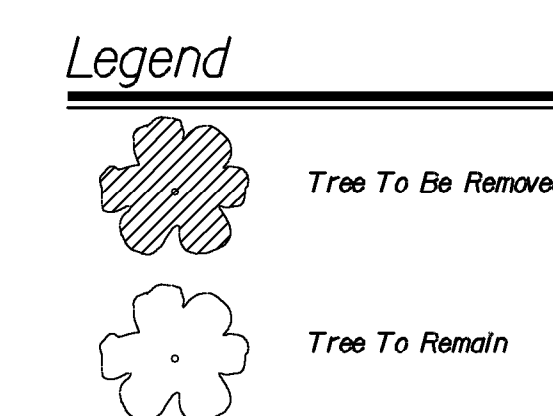
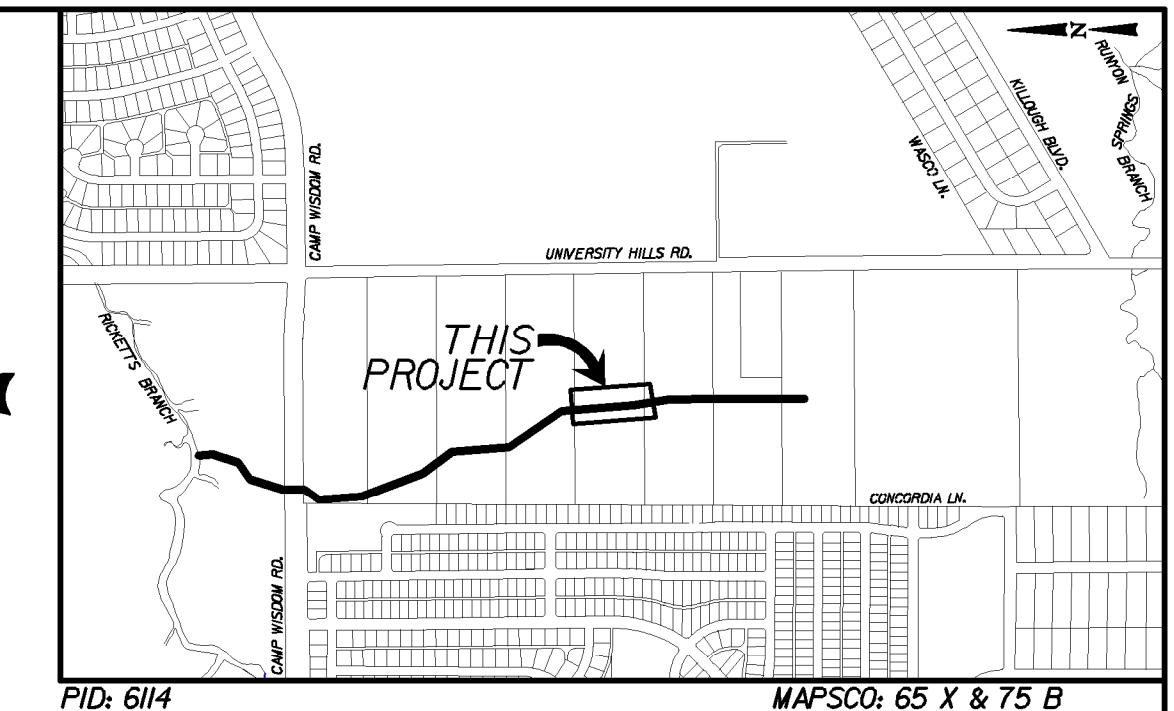
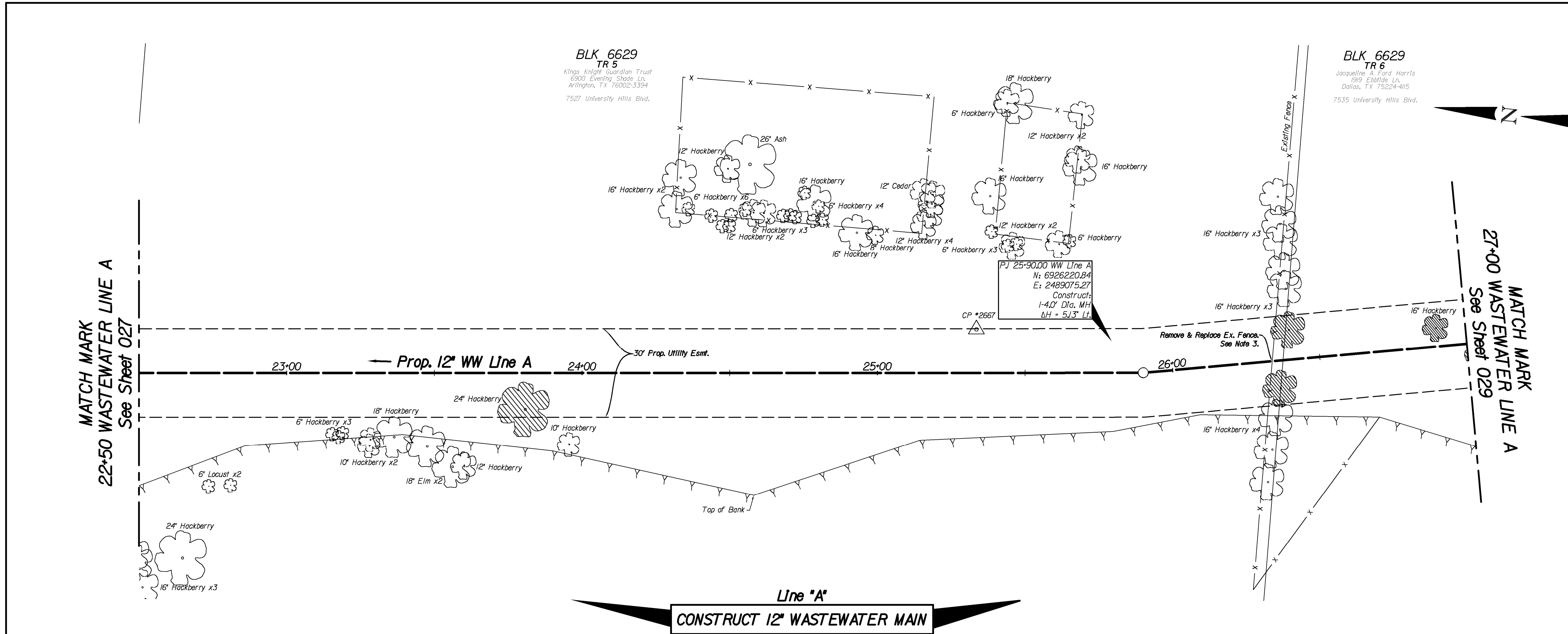


Notes:

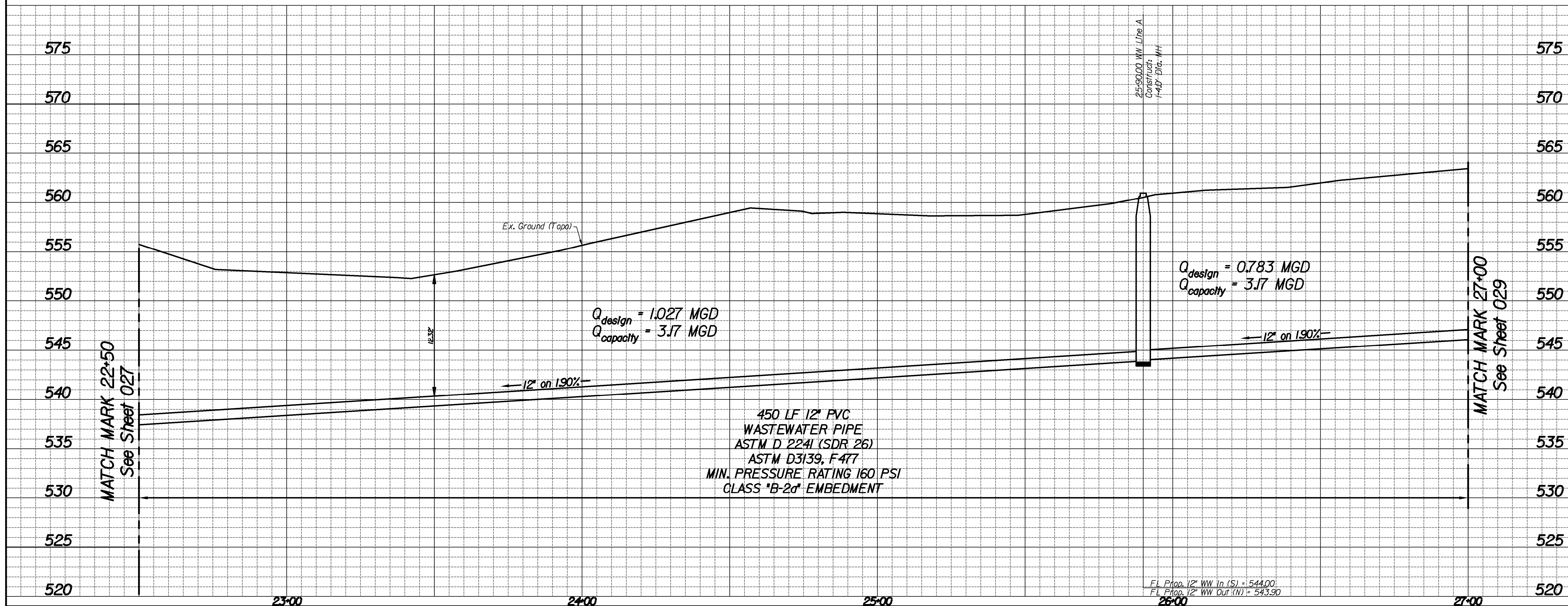
1. See Sheet 41Q-1722A Sh. 021 for General Notes.
2. The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.
3. Contractor shall ensure no trash or debris enters existing pond on property. The contractor shall be responsible for any damages that occur to pond and will restore pond to equal or better than pre-construction condition. No separate pay item.



REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
BENCHMARK *2241 Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection. ELEV = 571.652 MAPSCO 619					
BENCHMARK *2238 Std WDBM on the southeast corner of concrete storm sewer inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 Feet east of Willoughby Blvd. ELEV = 622.366 MAPSCO F19					
CONTROL POINT *2770 3" Capped Iron Rod Set N. 6926768.103; E. 2488965.663; ELEV. = 552.97					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 59-24W, 60-24W, 61-24W, 62-24W					
WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S					
Kimley»Horn					
PID: 6114		CONTRACT NO. 20 - 273/274			
12" & 8" WASTEWATER					
PHASE 3 OPTION 1					
UNIVERSITY HILLS BLVD					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	41Q	1722A	027



- Notes:**
- See Sheet 411Q-1722A Sh. 021 for General Notes.
 - The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.
 - Contractor shall match existing style fence with replacement fence. Contractor must send shop drawing to City for approval. Contractor shall maintain site security at all times.



REVISIONS				
REV NO.	DATE	DESCRIPTION	BY	
1				

BENCHMARKS & CONTROL POINTS

BENCHMARK *2241
Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection.
ELEV - 571.652 MAPSCO 619

BENCHMARK *2238
Std WDBM on the southeast corner of concrete storm sewer Inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd.
ELEV - 622.366 MAPSCO F19

CONTROL POINT *2667
3" Capped Iron Rod Set
N. 6926278.492; E. 2489084.566; ELEV. - 561.25

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

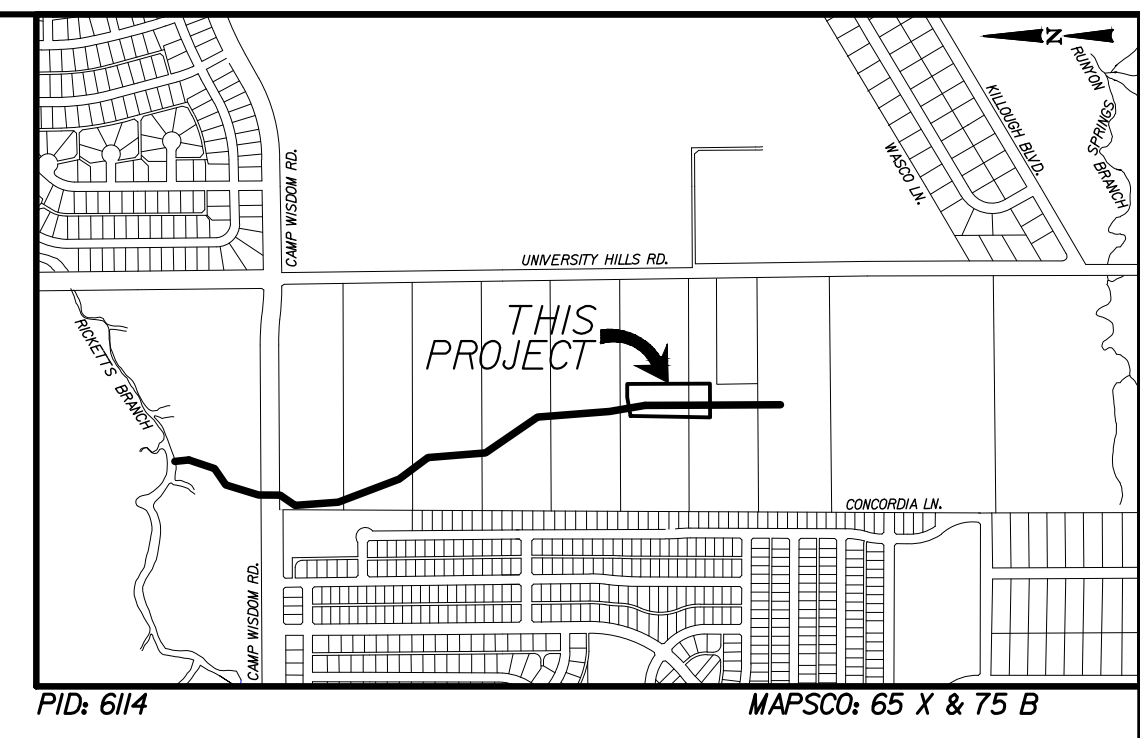
REFERENCES
WATER
59-24W, 60-24W, 61-24W, 62-24W
WASTEWATER
59-24S, 60-24S, 61-24S, 62-24S

Kimley»Horn

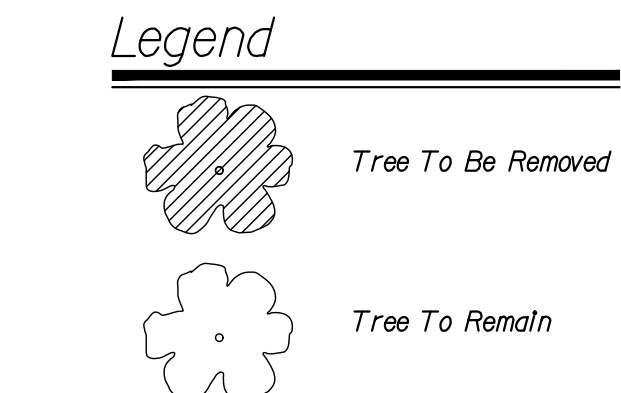
PID: 6114 CONTRACT NO. 20 - 273/274

**12" & 8" WASTEWATER
PHASE 3 OPTION I
UNIVERSITY HILLS BLVD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS**

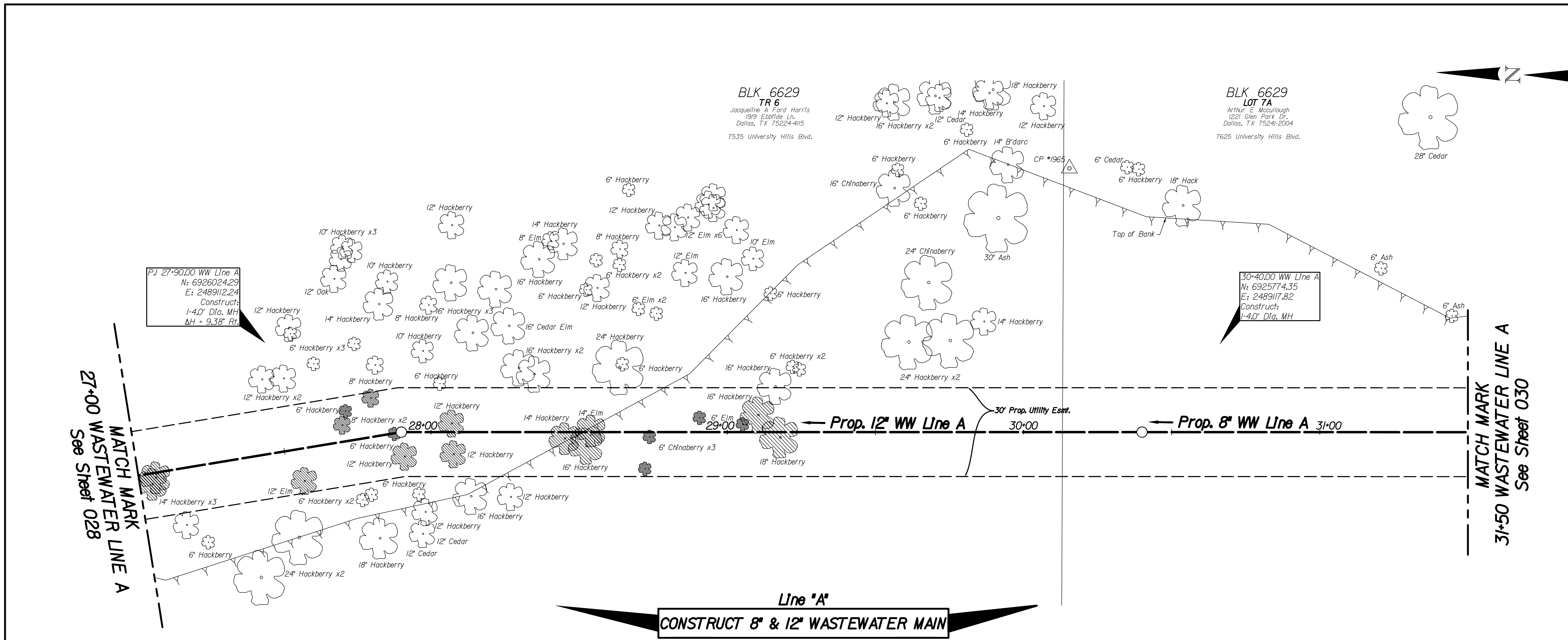
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	411Q	1722A	028



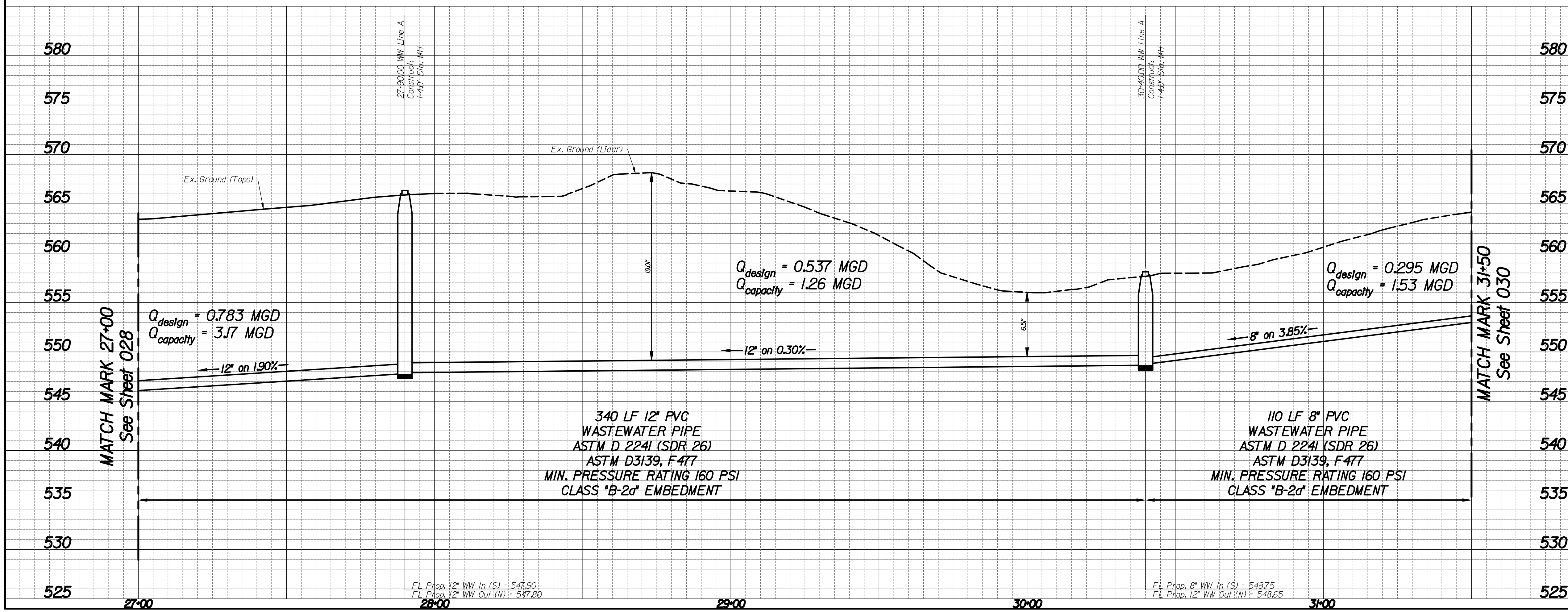
PID: 6114 MAPSCO: 65 X & 75 B



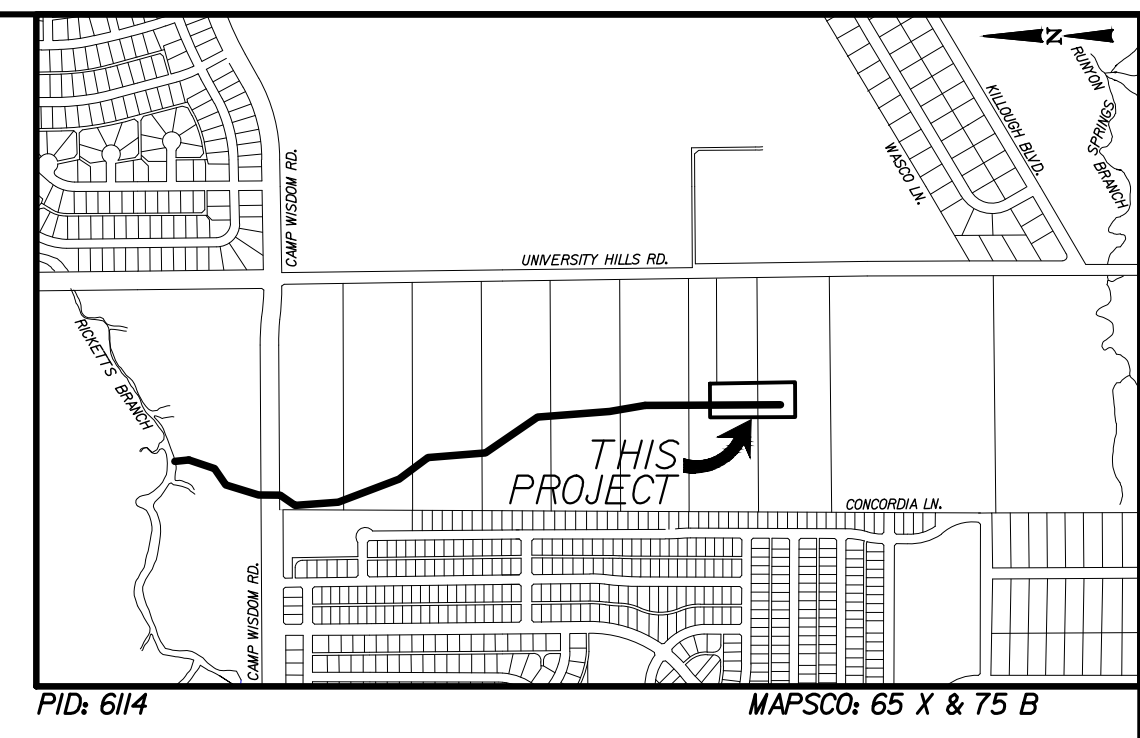
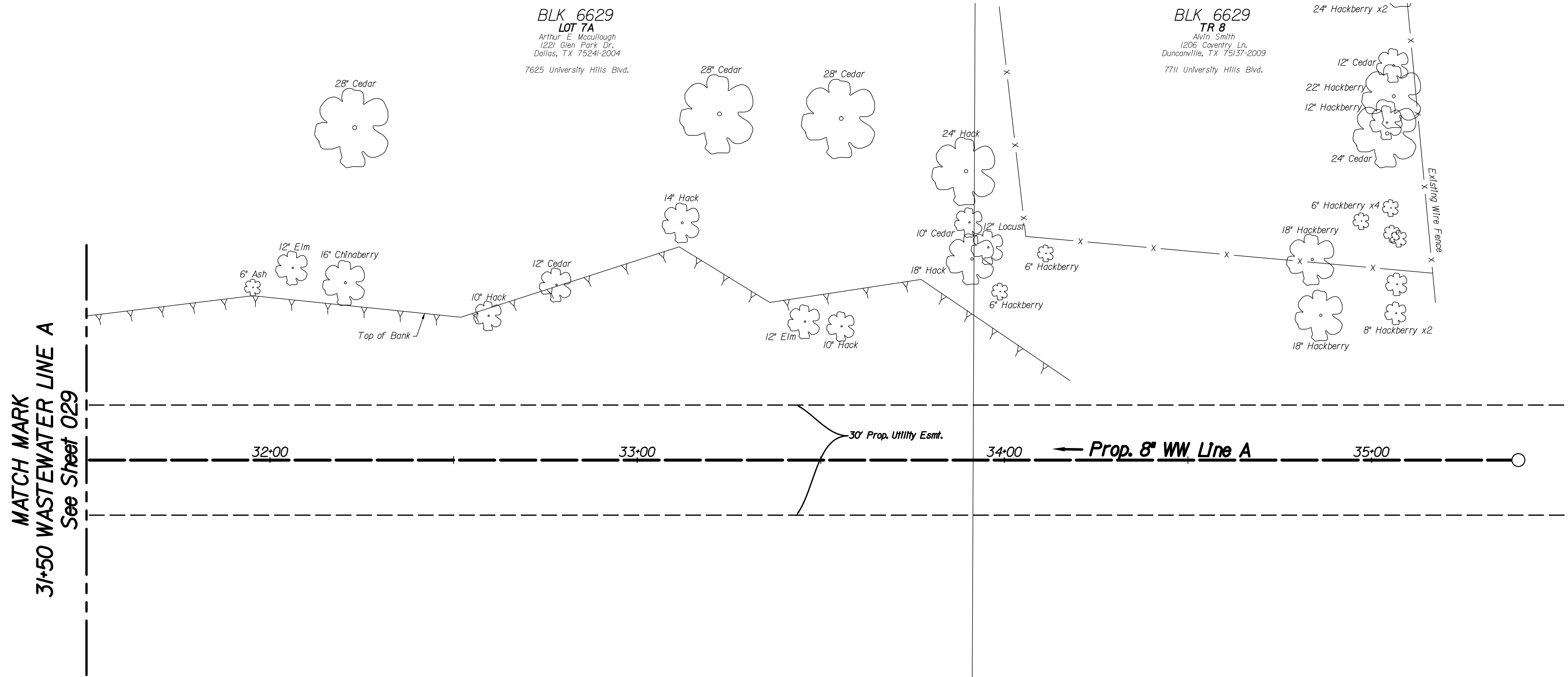
- Notes:**
- See Sheet 41Q-1722A Sh. 021 for General Notes.
 - The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.



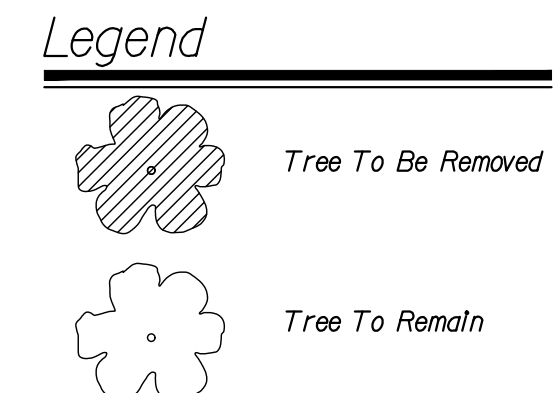
CONSTRUCT 8" & 12" WASTEWATER MAIN



REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
BENCHMARK *2241 Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection. ELEV = 571.652 MAPSCO 619					
BENCHMARK *2238 Std WDBM on the southeast corner of concrete storm sewer Inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd. ELEV = 622.366 MAPSCO F19					
CONTROL POINT *1965 3" Capped Iron Rod Set N. 6925800.851; E. 2489206.323; ELEV. = 575.91					
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 59-24W, 60-24W, 61-24W, 62-24W					
WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S					
Kimley»Horn					
PID: 6114		CONTRACT NO. 20 - 273/274			
12" & 8" WASTEWATER					
PHASE 3 OPTION 1					
UNIVERSITY HILLS BLVD					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	41Q	1722A	029



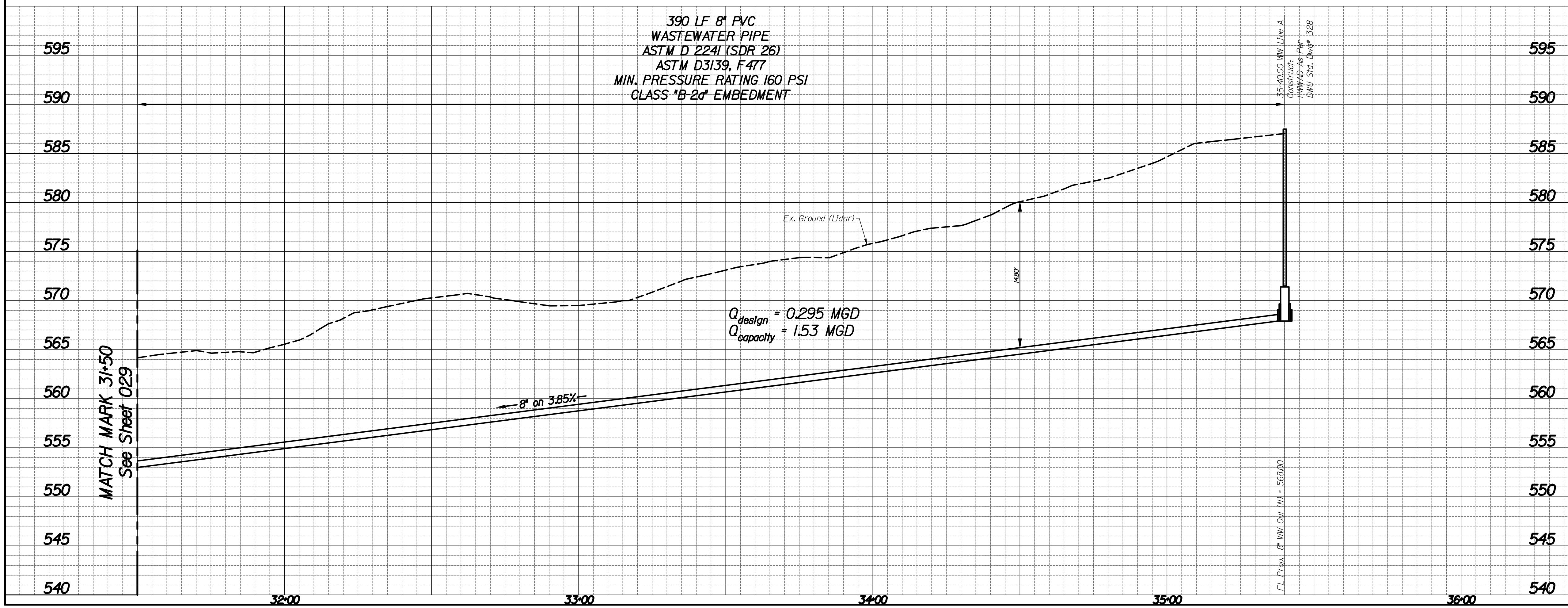
35+40.00 WW Line A
 N: 6925274.47
 E: 2489128.85
 Construct:
 HWAD As Per
 DWU Std. Dwg* 328



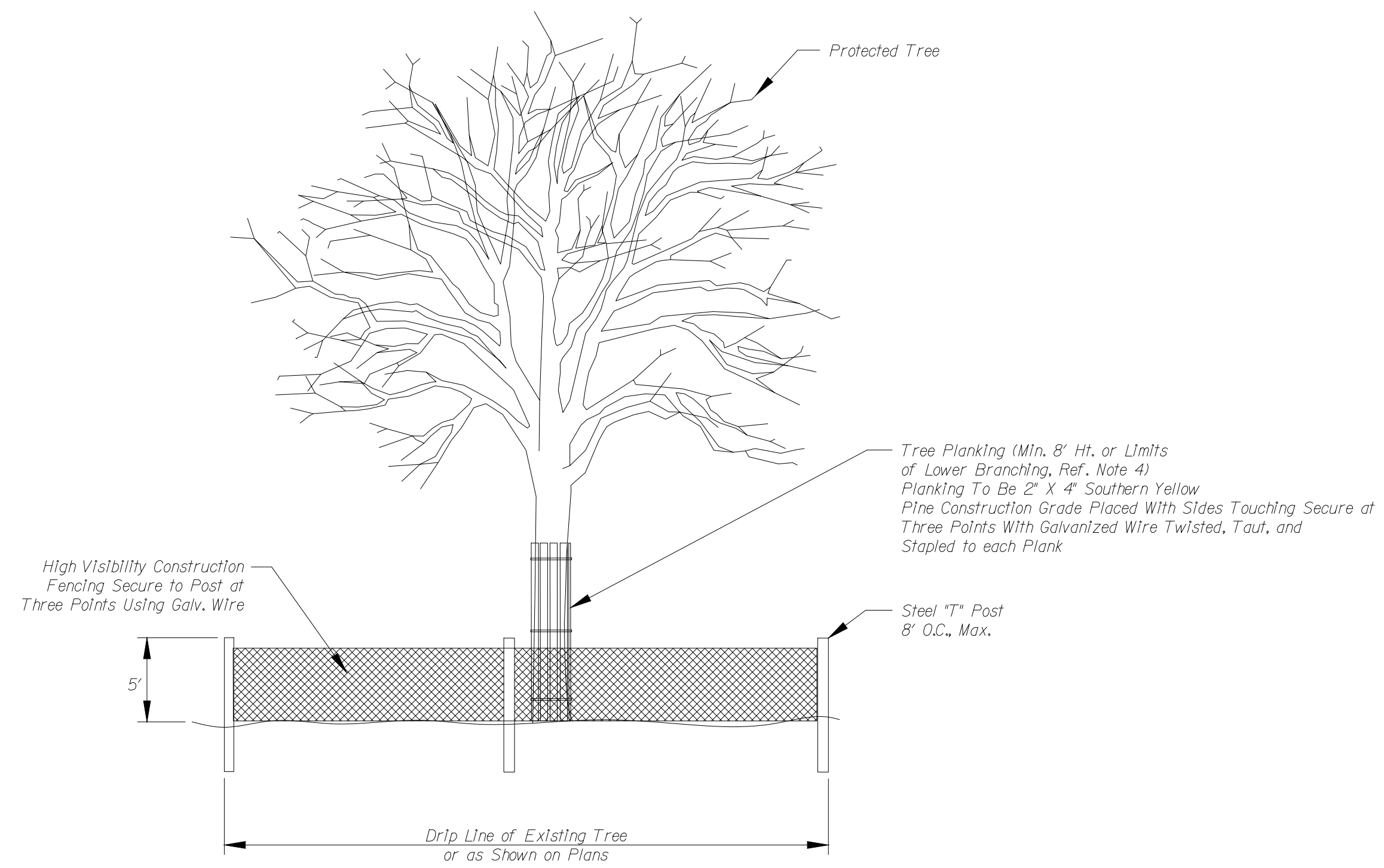
Notes:

- See Sheet 41Q-1722A Sh. 021 for General Notes.
- The Ground Survey was performed by BDS Technologies, Inc. from October to December 2019. The design relies on the assumptions provided by the survey.

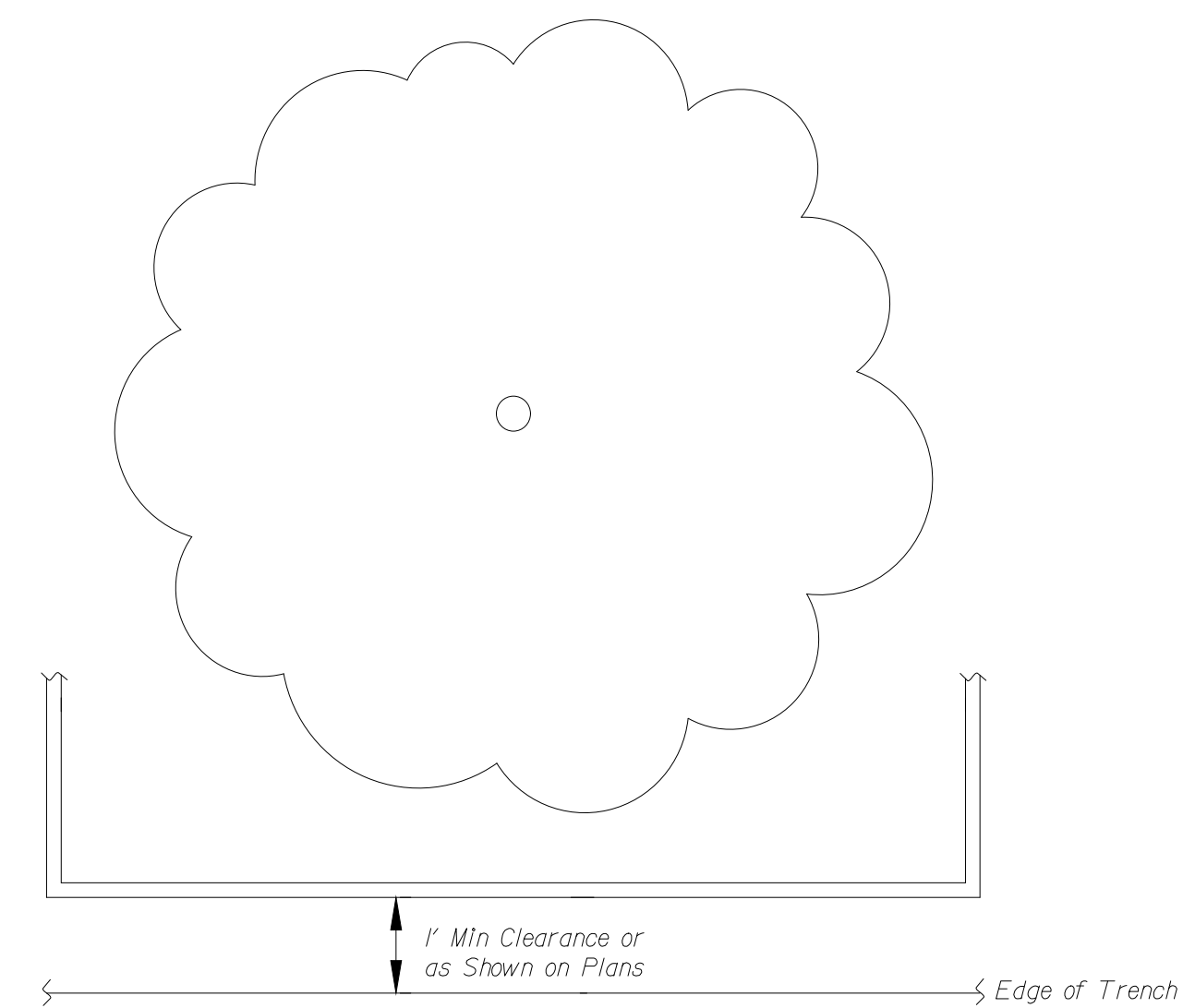
Line "A"
CONSTRUCT 8" WASTEWATER MAIN



REVISIONS				
REV NO.	DATE	DESCRIPTION	BY	
BENCHMARKS & CONTROL POINTS				
		BENCHMARK *2241 Found at the nose of the concrete median on the north side of the Wheatland Rd and University Hills Blvd Intersection. ELEV = 571.652 MAPSCO 619		
		BENCHMARK *2238 Std WDBM on the southeast corner of concrete storm sewer inlet on the south side Beckleymeade Ave at Ricketts Branch and 25 feet east of Willoughby Blvd. ELEV = 622.366 MAPSCO F19		
		CONTROL POINT *2848 Capped Iron Rod Set N. 6925296.309; E. 2489322.667; ELEV. = 592.84		
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER 59-24W, 60-24W, 61-24W, 62-24W				
WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S				
Kimley»Horn				
PID: 6114		CONTRACT NO. 20 - 273/274		
12" & 8" WASTEWATER				
PHASE 3 OPTION 1				
UNIVERSITY HILLS BLVD				
DALLAS WATER UTILITIES				
CITY OF DALLAS, TEXAS				
DESIGN	DRAWN	DATE	FILE	NUMBER
AKM	JDC	AUG 2020	41Q	1722A
SHEET				030



1 TREE PROTECTION DETAIL
031 SCALE: N.T.S.



2 TREE PROTECTION DETAIL
031 SCALE: N.T.S.

NOTES:

1. All trees not identified to be removed on the tree protection plans shall be protected throughout construction with tree protection.
2. Tree protection fencing shall be installed prior to mobilization.
3. Fencing shall be completely surround the tree or clusters of trees and will be located at the outermost limits of the tree branches (drip-line). The drip-line defines the "Root Zone". Within the limits of fencing, the contractor shall prevent the following from occurring without prior written authorization from the owner's representative:
 - A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials.
 - B. Root zone disturbances due to grade changes (greater than 3" cut or fill) or trenching not reviewed or authorized.
 - C. Wounds to exposed roots, trunk, or limbs by mechanical equipment.
 - D. Other activities detrimental to trees such as chemical storage, concrete truck cleaning, and fires.
4. Where exceptions result in a fence being closer than 4 feet to a trunk, protect the trunk with strapped-on planking to a height of 8' (or to the limits of the lower branching) as indicated on tree protection plans.
5. All grading within protected root zone areas shall be done by hand to minimize root damage and soil compaction. Prior to grading, relocate protective fencing to 2 feet behind the grade change area. Grade shall remain unchanged where possible.
6. Any root severed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimized drying of the root due to evaporation.
7. Trees impacted by construction activities shall be watered thoroughly once a week during periods of hot and/or dry weather. Tree crowns shall be sprayed with water periodically to reduce dust accumulation on the leaves.
8. No landscape topsoil dressing greater than 3" maximum shall be permitted within the drip-line of trees. No permanent soil or mulch is permitted on the root flare of any tree.
9. Pruning shall be performed by the contractor to provide clearance for structures or construction activities. Pruning shall take place before construction begins, only with prior approval from authority's engineer. All pruning must be according to recognized, approved standards of the industry (reference the NAA Pruning Standards), and by an experienced and qualified arborist whose primary business is tree care.
10. Provide corrective pruning at the completion of construction to remove any broken or damaged limbs, under the direction of the authority's engineer.
11. If required, root prune by trenching a clean 4" wide x 24" deep cut between the disturbed and undisturbed root zones with irrigation trencher to minimize damage to remaining roots. Mark and review trench line with authority's engineer prior to trenching.
12. As soon as 4" wide x 24" deep trench is cut, exposed roots shall be hand cut to create clean root cuts. As soon as hand cuts are complete, backfill trench with a sandy loam topsoil placed in 6" lifts, and compacted as required by specifications.
13. In areas where lime stabilization abuts or encroaches upon root zones, and where root pruning is called for, install 10-mil. plastic sheeting to full depth of root pruning trench and 6" over top. Cut and remove exposed plastic at completion of work.

Horizontal Scale: as shown					
REFERENCES WATER 59-24W, 60-24W, 61-24W, 62-24W WASTEWATER 59-24S, 60-24S, 61-24S, 62-24S					
Kimley»Horn					
PID: 6114		CONTRACT NO. 20 - 273/274			
TREE PROTECTION DETAIL					
PHASE 3 OPTION I					
UNIVERSITY HILLS BLVD					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
AKM	JDC	AUG 2020	411Q	1722A	031