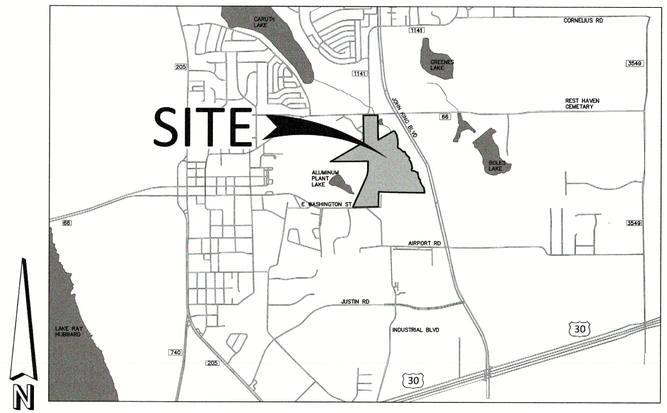
SHEET INDEX	
	SHEET TITLE
1	FINAL PLAT - SHEET 1 OF 5
2	FINAL PLAT - SHEET 2 OF 5
3	FINAL PLAT - SHEET 3 OF 5
4	FINAL PLAT - SHEET 4 OF 5
5	FINAL PLAT - SHEET 5 OF 5
6	SITE PLAN
7	GENERAL NOTES
8	PAVING PLAN & PROFILE - STREET A - SHEET 1 OF 2
9	PAVING PLAN & PROFILE - COUNTRY BROOK LN - SHEET 2 OF 2
10	PAVING PLAN & PROFILE - MYERS PARKSIDE - SHEET 1 OF 2
11	PAVING PLAN & PROFILE - MYERS PARKSIDE - SHEET 2 OF 2
12	PAVING PLAN & PROFILE - SHADOW RIDGE ROAD - SHEET 1 OF 2
13	PAVING PLAN & PROFILE - SHADOW RIDGE ROAD - SHEET 2 OF 2
14	PAVING PLAN & PROFILE - PARKLAND VALLEY - SHEET 1 OF 2
15	PAVING PLAN & PROFILE - PARKLAND VALLEY - SHEET 2 OF 2
16	PAVING PLAN & PROFILE - OVERHILL DRIVE - SHEET 1 OF 2
17	PAVING PLAN & PROFILE - OVERHILL DRIVE - SHEET 2 OF 2
18	PAVING PLAN & PROFILE - PARK HILLS BOULEVARD - SHEET 1 OF 2
19	PAVING PLAN & PROFILE - PARK HILLS BOULEVARD - SHEET 2 OF 2
20	PAVING PLAN & PROFILE - EVENSTAR LN & GROVE VALE CT
21	GRADING PLAN - SHEET 1 OF 4
22	GRADING PLAN - SHEET 2 OF 4
23	GRADING PLAN - SHEET 3 OF 4
24	GRADING PLAN - SHEET 4 OF 4
25	EXISTING DRAINAGE AREA MAP
26	PROPOSED DRAINAGE AREA MAP
27	INLET & HYDRAULIC CALCULATIONS
28	STORM DRAIN PLAN & PROFILE - SD LINE A
29	STORM DRAIN PLAN & PROFILE - SD LINE B
30	STORM DRAIN PLAN & PROFILE - SD LINE C - SHEET 1 OF 2
31	STORM DRAIN PLAN & PROFILE - SD LINE C - SHEET 2 OF 2
32	STORM DRAIN PLAN & PROFILE - SD LINE D - SHEET 1 OF 2
33	STORM DRAIN PLAN & PROFILE - SD LINE D - SHEET 2 OF 2
34	STORM DRAIN PLAN & PROFILE - SD LINE E
34A	SOUTHWEST DETENTION POND PLAN
34B	NORTH DETENTION POND PLAN
35	WATER PLAN - SHEET 1 OF 2
36	WATER PLAN - SHEET 2 OF 2
37	WATER LINE PROFILE - 12 INCH MAIN
38	WATER LINE PROFILE - 12 INCH MAIN
39	WATER LINE PROFILE - 12 INCH PROFILE
40	WASTE WATER PLAN - SHEET 1 OF 2
41	WASTE WATER PLAN - SHEET 2 OF 2
42	WASTE WATER PLAN & PROFILE - SS-A
43	WASTE WATER PLAN & PROFILE - SS-B SS-E & SS-G
44	WASTE WATER PLAN & PROFILE - SS-D & SS-F
45	WASTE WATER PLAN & PROFILE - SS-C SS-H & SS-I
46	LIGHTING & SIGNAGE PLAN
47	EROSION CONTROL PLAN
48	EROSION CONTROL DETAILS
49	PAVING DETAILS
50	PAVING DETAILS
51	PAVING DETAILS
52	PAVING DETAILS
53	WATER DETAILS
54	WATER DETAILS - NTMWD
55	WATER DETAILS - NTMWD
56	WASTE WATER DETAILS
57	WASTE WATER DETAILS
58	STORM DRAIN DETAILS

CONSTRUCTION PLAN SET

FOR

PARK HILLS

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS



LOCATION MAP
SCALE: 1" = 2,000'

NTMWD CONSTRUCTION NOTES:

A. NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD) 30-INCH WATER PIPELINE IS LOCATED WITHIN LIMITS OF CONSTRUCTION.

B. OPERATION OF HEAVY EARTHMOVING EQUIPMENT, COMPACTION EQUIPMENT OR HEAVY CONSTRUCTION EQUIPMENT, SUCH AS CONCRETE TRUCKS, SHALL BE RESTRICTED TO SPECIFIC CROSSING POINTS ACROSS NTMWD EASEMENTS, AS APPROVED BY THE NTMWD. THE CROSSINGS SHALL BE DESIGNATED AND VERIFIED TO PROVIDE A MINIMUM OF FIVE-FEET OF COVER.

C. TO ASSURE THAT PLACING OF SIGNIFICANT LOADS OVER THE NTMWD PIPELINE DOES NOT DAMAGE THE EXISTING PIPELINE, NO MATERIALS SHALL BE STOCKPILED ON THE NTMWD EASEMENT WITHOUT AUTHORIZATION FROM THE NTMWD. IF THE CONTRACTOR DESIRES TO USE NTMWD'S EASEMENT FOR STOCKPILE OF MATERIALS, CONTACT NTMWD ENGINEERING AT (972) 442-5405 SO YOUR PLANS FOR USE OF NTMWD'S EASEMENT CAN BE REVIEWED.

D. A MINIMUM OF 4.5 FEET SEPARATION BETWEEN BOTTOM OF PAVEMENT AND TOP OF NTMWD PIPELINE IS REQUIRED. IN ADDITION, IF SEPARATION BETWEEN BOTTOM OF PAVEMENT AND TOP OF PIPELINE IS LESS THAN 4.5 FEET, LIME STABILIZED IS NOT PERMITTED AND A THICKENED PAVEMENT SECTION IS REQUIRED.

E. CROSSING OF THE NTMWD EASEMENT WITH OTHER UTILITIES, SUCH AS TV CABLE, PHONE, GAS AND ELECTRIC, SHALL BE COORDINATED WITH THE NTMWD TO AVOID DAMAGE TO THE NTMWD FACILITIES.

F. OUTDOOR LIGHTING, LANDSCAPING, SCREENING WALLS OR OTHER FACILITIES SHALL NOT BE INSTALLED IN NTMWD EASEMENTS WITHOUT WRITTEN APPROVAL OF THE NTMWD.

G. UNLESS OTHERWISE SHOWN OR REQUIRED, A MINIMUM OF TWO-FOOT CLEARANCE SHALL BE PROVIDED FOR ALL UTILITIES CROSSING THE NTMWD PIPELINES. DIRECTIONAL BORE CROSSINGS REQUIRE A MINIMUM OF FOUR-FEET CLEARANCE.

H. BORE CROSSINGS ONLY TO BE PERFORMED BETWEEN 9:00 AM AND 4:00 PM TUESDAY THRU THURSDAY

I. NO TREES ARE ALLOWED WITHIN NTMWD EASEMENT, ONLY CREPE MYRTLES, SHRUBS, AND BUSHES

J. A NTMWD REPRESENTATIVE IS REQUIRED TO BE ON-SITE FOR ANY WORK IN THE VICINITY OF NTMWD PIPELINES, FEATURES, OR FACILITIES

K. "THE CONTRACTOR SHALL CONTACT NTMWD LINE LOCATES AT (469) 626-4569 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF THE NTMWD FACILITIES."

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

MAY 2023

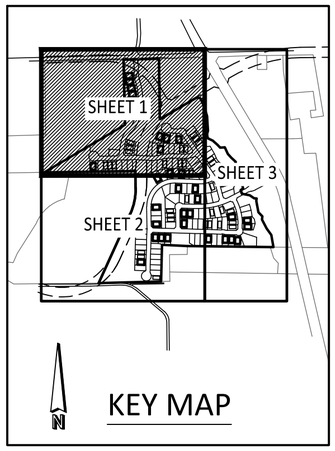
Owner/Applicant:
Qualico Developments (U.S), Inc.
6950 TPC Drive, Suite 350
McKinney, TX 78660

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite. 1200
Plano, Texas 75074
Phone: 972-201-3100
Contact: Tom Dayton, PE

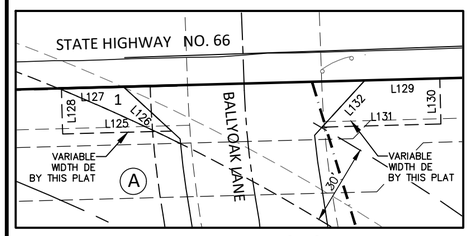
JOHNSON VOLK CONSULTING
TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

JVC No. MJP502 – PARKHILLS – CITY OF ROCKWALL

F:\civil 3d projects\ map - michael joyce properties\ mjp502 - park hills\ jvc plans\ dwg\ sheets\ construction plans\ cover sheet.dwg

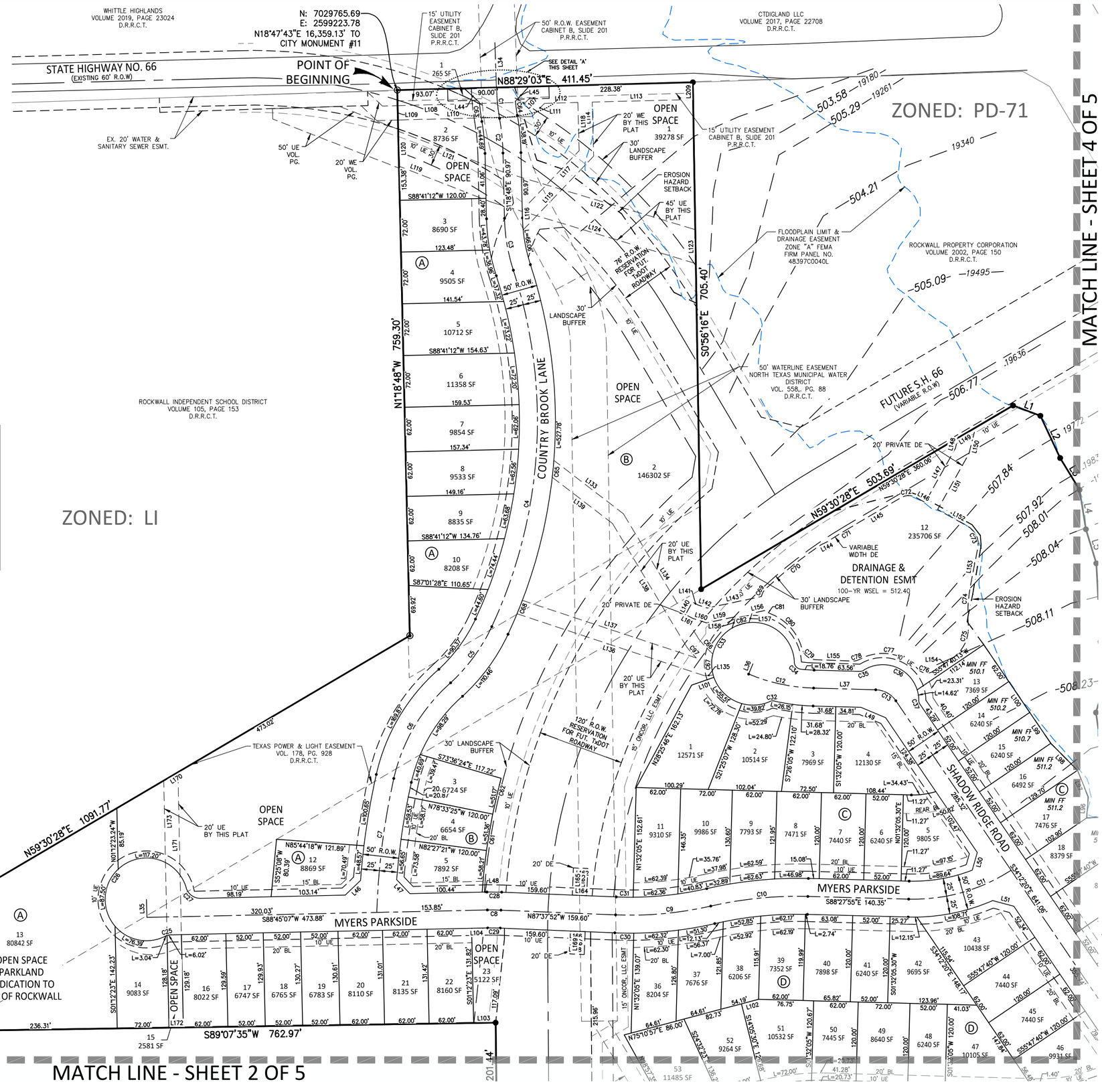


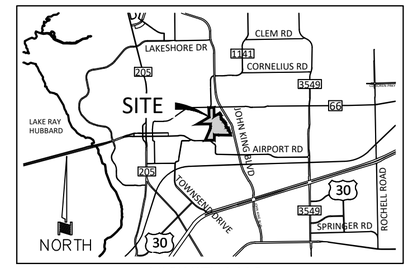
KEY MAP



DETAIL 'A'

SCALE: 1"=40'





VICINITY MAP

N.T.S.

LEGEND

- • Point of Curvature or Tangency on Center Line
- ● 1/2" Iron rod set with a yellow plastic cap stamped "JVC" (unless otherwise noted)
- ◉ 1/2" IRF (unless otherwise noted)

AC	Acre
BL	Building Line
C1	Curve No.
<CM>	Control Monument
DE	Drainage Easement
DUE	Drainage Utility Easement
Esmt	Easement
L1	Line No.
SF	Square Feet
UE	Utility Easement
VE	Visibility Easement

P.R.R.C.T.= Plat Records of Rockwall County, Texas

D.R.R.C.T.= Deed Records of Rockwall County, Texas

SCALE 1" = 100'

FINAL PLAT
PARK HILLS

LOTS 1-20, BLOCK A; LOTS 1-9, BLOCK B;
LOTS 1-28, BLOCK C; LOTS 1-52, BLOCK D;
LOTS 1-27, BLOCK E; LOTS 1-22, BLOCK F;
65.309 ACRES OR 2,844,879.13 SF
144 SINGLE FAMILY LOTS AND
13 OPEN SPACE LOTS
SITUATED WITHIN
TRACT 6 AND PORTIONS OF TRACTS 1 AND 6-1 OF THE
GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

P2023-012

September 12, 2023

EXIST. ZONING: PD-98
LAND USE: SF
SHEET 1 OF 5

Owner/Applicant:
Qualico Developments (U.S.), Inc.
6950 TPC Drive, Suite 350
McKinney, Texas 75070
Phone: 469-659-6150

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite 1200
Plano, Texas 75074
Phone: 972-201-3102
Contact: Tom Dayton, PE

JOHNSON VOLK CONSULTING
TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

MATCH LINE - SHEET 1 OF 5

MATCH LINE - SHEET 3 OF 5

S89°15'52"W 297.37

MUNICIPAL PARK ADDITION
CABINET B, SLIDE 49
P.R.R.C.T.

CITY OF ROCKWALL
VOLUME 2163, PAGE 96
D.R.R.C.T.

ZONED: LI

20' WATERLINE EASEMENT
NORTH TEXAS MUNICIPAL WATER DISTRICT
VOL. 756,, PG. 277
D.R.R.C.T.

N0°37'07"W 201.44'

C98

110' R.O.W. RESERVATION FOR FUTURE TxDOT ROADWAY

15' ONCOR, LLC ESMT

FUTURE S.H. 66
(VARIABLE R.O.W)

FLOODPLAIN LIMIT & DRAINAGE EASEMENT ZONE "A" FEMA FIRM PANEL NO. 48397C0040L

N24°23'30"E 884.48'

529.97

1988

30' LANDSCAPE BUFFER

EROSION HAZARD SETBACK

VARIABLE WIDTH DRAINAGE & DETENTION ESMT

15' ONCOR, LLC ESMT

551.38

532.06

534.36

538.38'

20' PRIVATE DE

100-YR WSEL = 536.99

DRAINAGE & DETENTION ESMT

20' UE BY THIS PLAT

S88°33'07"W 724.98'

VARIABLE WIDTH PRIVATE DE

536.58

536.74

535.65

N: 7027182.77
E: 2599659.86
N26°54'26"E 14,685.16' TO
CITY MONUMENT #11

OPEN SPACE
23
35687 SF

OPEN SPACE
27
176534 SF

OPEN SPACE
16
33218 SF

PARKLAND VALLEY

PARK HILLS BOULEVARD

EVENSTAR LANE

OVERHILL DRIVE

S88°27'55"E 294.07'

N88°27'55"W 183.11'

S88°27'55"E 843.30'

N87°11'23"W 295.74'

S1°26'13"W 426.00'

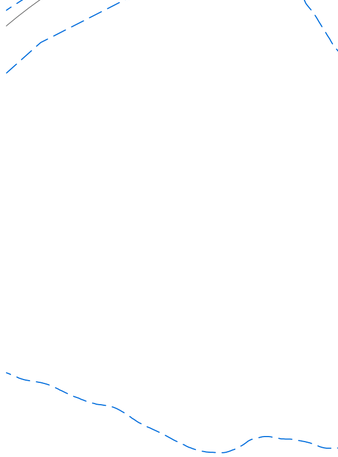
D. RICHARD DEVENNEY AND WIFE, DIANA DEVENNEY
VOLUME 165, PAGE 116
D.R.R.C.T.

10' DRAINAGE ESMT

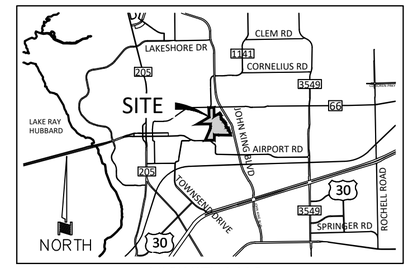
ZONED: AG

20' WATERLINE EASEMENT
NORTH TEXAS MUNICIPAL WATER DISTRICT
VOL. 551, PG. 308
D.R.R.C.T.

20' WATERLINE EASEMENT
NORTH TEXAS MUNICIPAL WATER DISTRICT
VOL. 812, PG. 29
D.R.R.C.T.



KEY MAP



VICINITY MAP
N.T.S.

LEGEND

- • Point of Curvature or Tangency on Center Line
- ● 1/2" Iron rod set with a yellow plastic cap stamped "JVC" (unless otherwise noted)
- ◉ 1/2" IRF (unless otherwise noted)

AC	Acre
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<CM>	Control Monument
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Esmt	Easement
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VE	Visibility Easement

D.R.R.C.T.= Deed Records of Rockwall County, Texas

100 50 0 100 200

SCALE 1" = 100'

FINAL PLAT

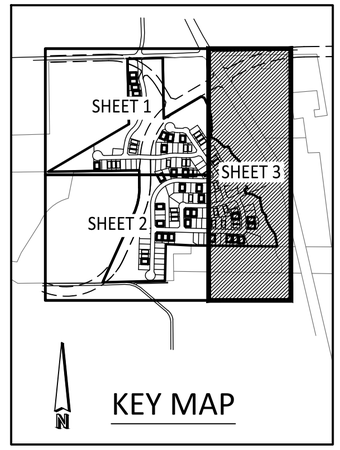
PARK HILLS

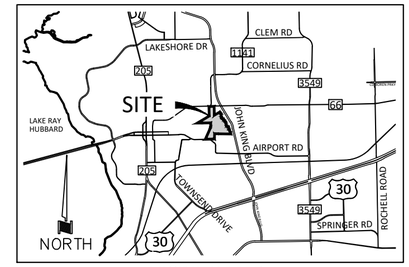
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SITUATED WITHIN
TRACT 6 AND PORTIONS OF TRACTS 1 AND 6-1 OF THE
GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
P2023-012
September 12, 2023
EXIST. ZONING: PD-98
LAND USE: SF
SHEET 2 OF 5

Owner/Applicant:
Qualico Developments (U.S.), Inc.
6950 TPC Drive, Suite 350
McKinney, Texas 75070
Phone: 469-659-6150

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite 1200
Plano, Texas 75074
Phone: 972-201-3102
Contact: Tom Dayton, PE

JOHNSON VOLK CONSULTING
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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100





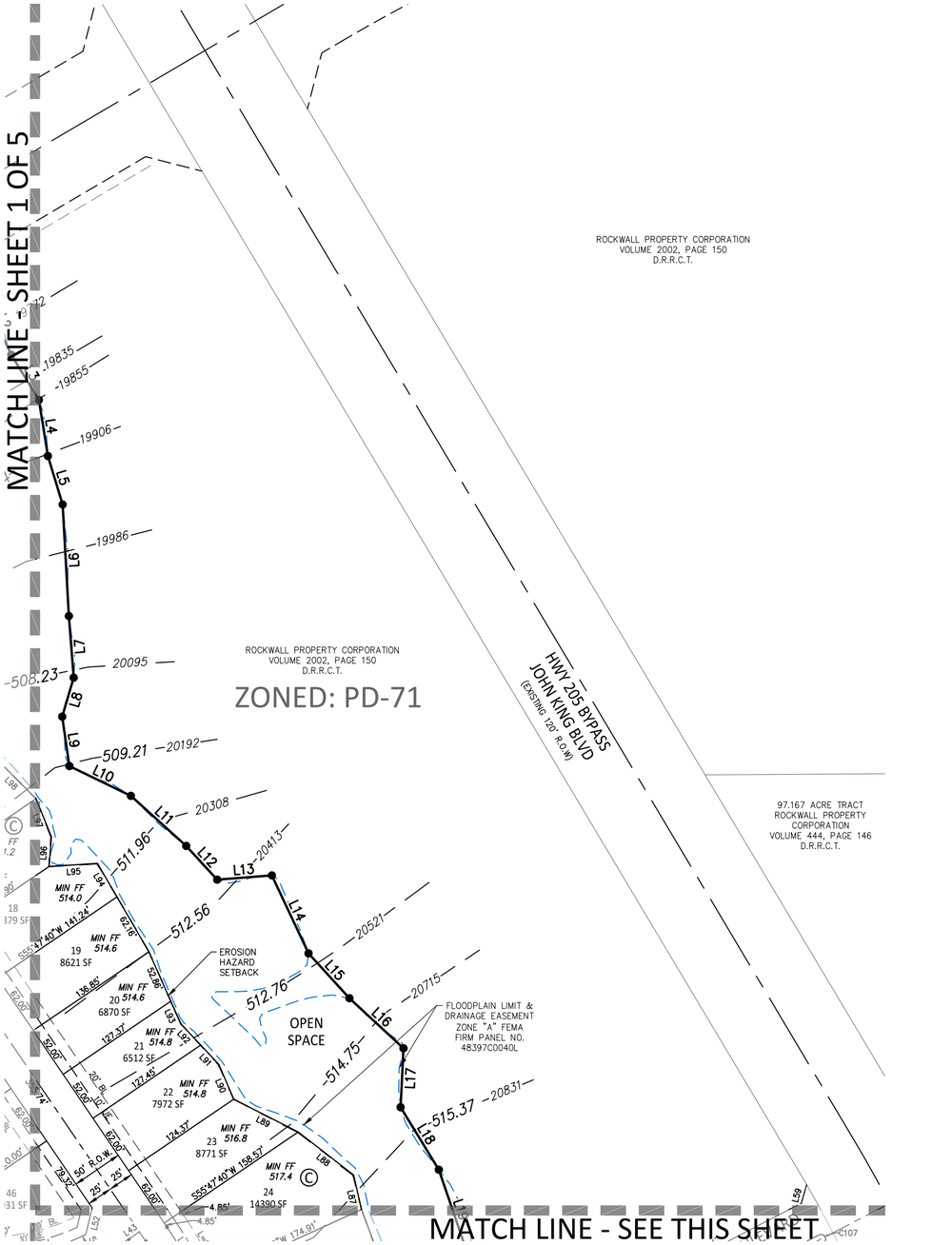
VICINITY MAP
N.T.S.

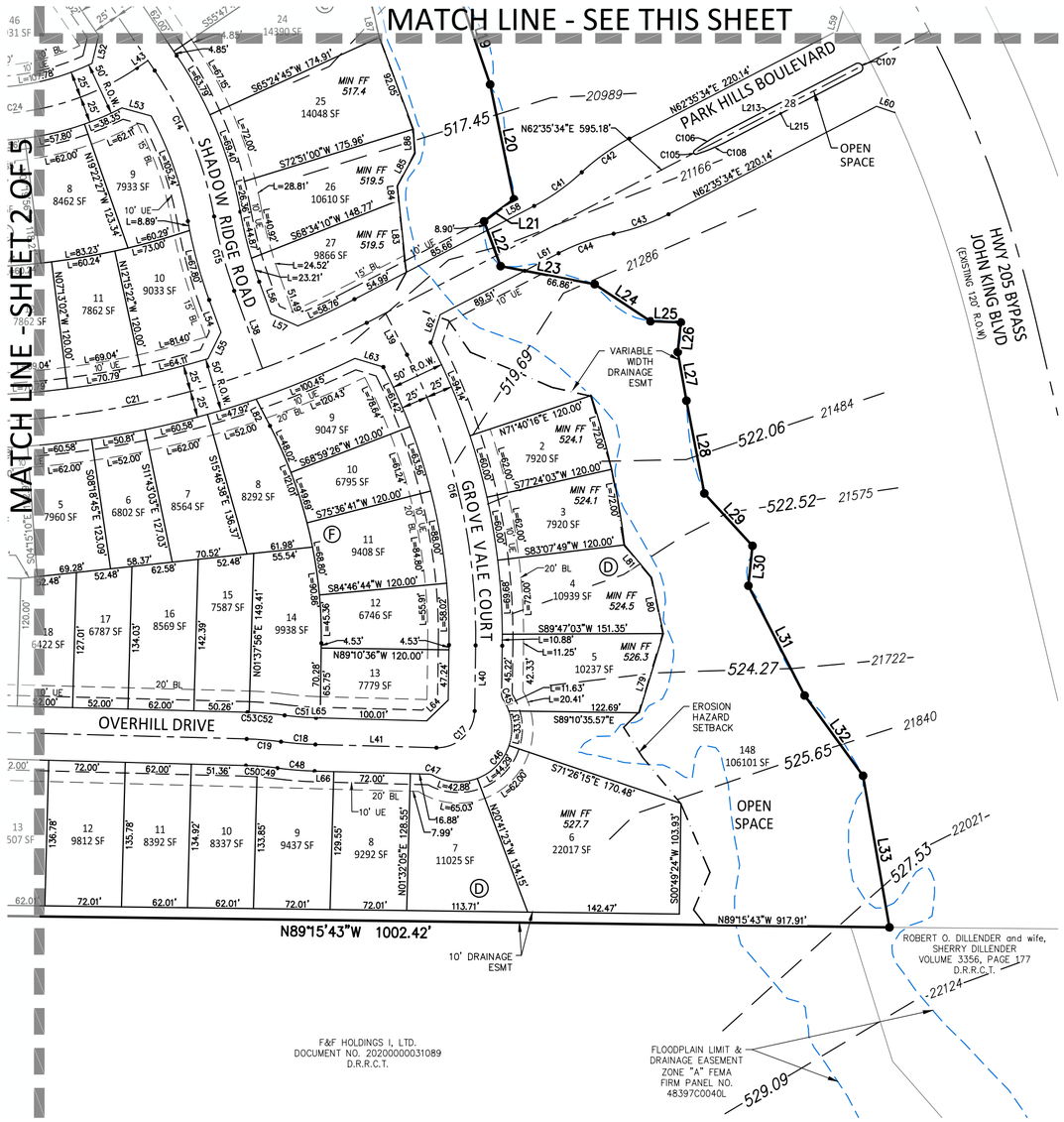
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100 50 0 100 200

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FINAL PLAT
PARK HILLS

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ROCKWALL COUNTY, TEXAS

P2023-012

June 12, 2023

EXIST. ZONING: PD-98
LAND USE: SF
SHEET 3 OF 5

Owner/Applicant:
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6950 TPC Drive, Suite 350
McKinney, Texas 75070
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Line Table		
Line	Length	Direction
L1	40.60	S69° 21' 48"E
L2	64.89	S25° 06' 25"E
L3	51.80	S31° 25' 37"E
L4	55.61	S9° 09' 13"E
L5	49.61	S16° 55' 05"E
L6	109.33	S3° 11' 20"E
L7	60.49	S4° 27' 24"E
L8	39.76	S16° 19' 49"W
L9	48.89	S8° 12' 45"E
L10	66.87	S64° 09' 47"E
L11	73.04	S47° 50' 45"E
L12	44.81	S42° 29' 55"E
L13	53.72	N85° 31' 53"E
L14	84.31	S25° 10' 09"E
L15	59.42	S42° 22' 14"E
L16	72.07	S47° 09' 28"E
L17	57.76	S2° 46' 29"W
L18	71.66	S31° 26' 15"E
L19	88.10	S18° 53' 46"E
L20	110.02	S11° 41' 53"E
L21	34.88	S53° 25' 21"W
L22	44.84	S20° 12' 22"E
L23	90.02	S79° 08' 23"E
L24	62.92	S56° 28' 11"E
L25	28.55	S87° 49' 07"E
L26	28.02	S5° 58' 08"W
L27	46.33	S10° 07' 55"E
L28	88.76	S10° 56' 13"E
L29	66.83	S42° 32' 37"E
L30	37.66	S5° 48' 00"W
L31	115.84	S27° 06' 51"E
L32	93.26	S36° 05' 07"E
L33	144.51	S9° 53' 27"E
L34	65.23	S2° 04' 28"E
L35	25.00	N1° 14' 53"W
L36	15.39	S22° 50' 48"W
L37	86.48	S88° 27' 55"E
L38	77.75	S20° 01' 20"E
L39	44.07	N27° 24' 26"W
L40	61.64	S0° 49' 24"W
L41	113.76	S88° 27' 55"E
L42	17.00	N88° 22' 04"W
L43	12.44	N55° 47' 40"E
L44	28.74	N47° 26' 59"W
L45	27.70	N42° 28' 16"E
L46	29.47	S46° 12' 57"W
L47	26.98	S43° 39' 22"E
L48	6.69	S88° 45' 07"W
L49	37.31	N67° 20' 11"W
L50	25.61	N15° 58' 42"E
L51	30.30	N74° 58' 04"W
L52	26.83	N13° 40' 06"E
L53	28.46	N74° 48' 07"W
L54	32.36	N20° 01' 20"W
L55	27.66	N26° 13' 25"E
L56	32.36	S20° 01' 20"E
L57	27.66	N66° 16' 04"W
L58	49.54	N62° 35' 34"E
L59	18.92	N16° 08' 24"E
L60	18.46	S70° 57' 16"E

Line Table		
Line	Length	Direction
L61	35.86	N62° 35' 34"E
L62	28.28	N17° 35' 38"E
L63	27.89	N73° 13' 08"W
L64	28.11	N46° 10' 45"E
L65	3.88	S88° 27' 55"E
L66	17.93	S88° 27' 55"E
L67	27.70	N45° 22' 18"E
L68	28.85	S44° 37' 42"E
L69	27.71	N45° 22' 02"E
L70	28.90	N44° 43' 30"W
L71	28.31	S46° 35' 01"W
L72	10.61	S22° 52' 40"E
L73	23.23	N24° 23' 30"E
L74	23.39	N88° 22' 04"W
L75	23.50	N54° 21' 56"W
L76	29.15	N87° 11' 23"W
L77	1.46	N1° 32' 05"E
L78	8.54	N1° 32' 05"E
L79	77.80	N16° 57' 28"E
L80	53.70	N11° 48' 15"W
L81	39.95	N39° 43' 05"W
L82	28.28	N27° 24' 26"W
L83	67.86	S6° 02' 04"E
L84	13.63	S6° 02' 04"E
L85	34.78	S28° 45' 30"W
L86	22.92	S3° 57' 54"E
L87	34.60	S12° 49' 43"E
L88	68.69	S52° 08' 24"E
L89	70.81	S63° 05' 21"E
L90	36.88	S23° 03' 47"E
L91	26.13	S43° 06' 53"E
L92	28.53	S43° 06' 53"E
L93	24.20	S23° 52' 46"E
L94	38.04	S30° 09' 15"E
L95	47.55	N86° 10' 29"E
L96	29.15	S4° 49' 15"W
L97	40.25	S22° 05' 32"E
L98	52.90	S44° 46' 36"E
L99	52.00	S34° 12' 20"E
L100	52.00	S34° 12' 20"E
L101	32.84	S70° 54' 01"W
L102	24.65	N75° 10' 57"E
L103	30.65	N89° 07' 35"E
L104	22.44	S88° 45' 07"W
L107	9.32	S43° 29' 03"W
L108	178.23	S88° 29' 03"W
L109	20.00	S1° 18' 48"E
L110	186.58	N88° 29' 03"E
L111	25.16	N43° 29' 03"E
L112	46.57	N88° 29' 03"E
L113	140.42	N88° 29' 03"E
L114	75.24	N1° 30' 57"W
L115	142.15	N43° 41' 12"E
L116	10.84	S1° 18' 48"E
L117	114.72	S43° 41' 12"W
L118	66.91	S1° 30' 57"E
L119	137.73	N68° 44' 58"W
L120	48.73	N1° 18' 48"W
L121	154.65	S68° 44' 58"E
L122	281.11	S73° 16' 41"E

Line Table		
Line	Length	Direction
L123	47.23	S0° 56' 16"E
L124	297.21	N73° 16' 41"W
L125	40.62	N88° 29' 03"E
L126	24.44	N47° 26' 59"W
L127	23.06	S88° 29' 03"W
L128	17.00	S1° 30' 57"E
L129	27.94	N88° 29' 03"E
L130	17.00	S1° 30' 57"E
L131	44.35	S88° 29' 03"W
L132	23.63	N42° 28' 16"E
L133	121.86	S52° 30' 09"E
L134	203.70	S31° 01' 44"E
L135	12.39	S85° 48' 10"W
L136	274.42	N71° 41' 50"W
L137	254.93	S71° 41' 50"E
L138	201.36	N31° 01' 44"W
L139	105.54	N52° 30' 09"W
L140	20.00	N28° 27' 11"E
L141	9.09	S61° 32' 49"E
L142	13.22	S71° 57' 31"E
L143	77.03	N78° 02' 29"E
L144	10.25	N64° 34' 54"E
L145	85.56	N59° 29' 56"E
L146	13.66	S60° 43' 15"E
L147	86.20	N29° 16' 54"E
L148	15.10	N14° 17' 26"E
L149	28.18	N59° 30' 28"E
L150	37.58	S14° 17' 26"W
L151	88.83	S29° 16' 54"W
L152	48.53	S60° 43' 17"E
L153	53.70	S10° 56' 41"W
L154	31.90	S55° 47' 40"W
L155	50.03	N87° 54' 48"W
L156	19.15	S78° 02' 29"W
L157	13.90	S18° 02' 29"W
L158	16.91	N18° 02' 29"E
L159	41.70	S78° 02' 29"W
L160	20.40	N71° 57' 31"W
L161	10.91	N61° 32' 49"W
L162	20.00	N87° 37' 52"W
L163	37.85	N2° 22' 08"E
L164	20.00	S87° 37' 52"E
L165	37.85	S2° 22' 08"W
L166	20.00	N87° 37' 52"W
L167	31.96	N2° 22' 08"E
L168	20.00	S87° 37' 52"E
L169	31.96	S2° 22' 08"W
L170	22.93	S59° 30' 28"W
L171	355.26	N1° 12' 23"W
L172	20.00	N89° 07' 35"E
L173	343.92	S1° 12' 23"E
L174	36.65	S85° 18' 07"W
L175	73.94	N4° 41' 53"W
L176	22.36	N31° 15' 47"W
L177	41.59	N4° 41' 53"W
L178	20.35	N85° 21' 14"W
L179	6.27	N88° 22' 04"W
L180	2.88	N44° 03' 25"E
L181	48.29	S40° 46' 49"E
L182	6.65	S88° 22' 04"E

Line Table		
Line	Length	Direction
L183	14.35	N85° 34' 22"E
L184	61.27	S52° 54' 31"E
L185	24.19	S56° 18' 36"E
L186	72.34	S84° 12' 59"E
L187	20.00	S5° 47' 01"W
L188	72.34	N84° 12' 59"W
L189	110.76	S23° 40' 39"E
L190	7.20	N0° 57' 55"W
L191	18.41	N44° 31' 03"E
L192	320.22	N88° 33' 07"E
L193	16.89	S1° 37' 56"W
L194	19.60	S43° 33' 07"W
L195	399.42	S88° 33' 07"W
L209	23.80	N0° 56' 16"W
L213	143.24	S62° 35' 34"W
L215	143.24	N62° 35' 34"E

Curve Table					
Curve #	Length	Radius	Delta	Chord Length	Chord Bearing
C1	40.71	300.00	007°46'27"	40.67	S05° 57' 41"E
C2	48.41	325.00	008°32'06"	48.37	N05° 34' 51"W
C3	73.40	250.00	016°49'18"	73.14	S09° 43' 27"E
C4	508.93	675.00	043°11'57"	496.96	N03° 27' 52"E
C5	100.42	250.00	023°00'49"	99.74	N36° 34' 15"E
C6	154.43	250.00	035°23'34"	151.99	S30° 22' 52"W
C7	188.19	988.00	010°54'48"	187.90	S07° 13' 41"W
C8	18.94	300.00	003°37'01"	18.93	N89° 26' 22"W
C9	133.38	500.00	015°17'05"	132.99	N84° 43' 36"E
C10	136.19	540.00	014°27'02"	135.83	S84° 18' 34"W
C11	150.33	250.00	034°27'13"	148.08	N74° 18' 29"E
C12	92.99	250.00	021°18'43"	92.46	S77° 48' 33"E
C13	33.15	35.00	054°15'35"	31.92	N61° 20' 07"W
C14	149.06	355.00	024°03'27"	147.97	N22° 10' 36"W
C15	72.38	420.00	009°52'27"	72.29	S15° 05' 06"E
C16	283.31	575.00	028°13'51"	280.46	N13° 17' 31"W
C17	55.41	35.00	090°42'41"	49.80	N46° 10' 45"E
C18	32.42	300.00	006°11'30"	32.40	S85° 22' 10"E
C19	32.42	300.00	006°11'30"	32.40	N85° 22' 10"W
C20	56.40	35.00	092°19'34"	50.49	S45° 22' 18"W
C21	419.26	830.00	028°56'31"	414.82	N77° 03' 50"E
C22	11.42	250.00	002°37'02"	11.42	S00° 19' 26"W
C23	476.36	295.00	092°31'11"	426.26	S45° 16' 30"W
C24	155.95	250.00	035°44'25"	153.43	N73° 39' 53"E
C25	6.02	20.50	016°49'29"	6.00	S80° 20' 23"W
C26	87.50	57.50	087°11'25"	79.30	S03° 07' 58"W
C27	26.75	20.50	074°45'45"	24.89	S53° 52' 00"E
C28	20.52	325.00	003°37'01"	20.51	N89° 26' 22"W
C29	17.36	275.00	003°37'01"	17.36	N89° 26' 22"W
C30	26.44	525.00	002°53'07"	26.43	N89° 04' 25"W
C31	23.52	475.00	002°50'15"	23.52	S89° 02' 59"E
C32	6.45	10.00	036°58'24"	6.34	S84° 23' 43"W
C33	197.67	57.50	196°58'07"	113.74	S79° 23' 05"W
C34	14.23	10.00	081°33'24"	13.06	S42° 54' 34"E
C35	5.86	10.00	033°33'26"	5.77	N74° 45' 22"E
C36	91.30	50.00	104°37'28"	79.14	N69° 42' 37"W
C37	5.86	10.00	033°33'26"	5.77	S17° 25' 37"E
C38	5.31	10.00	030°26'20"	5.25	N16° 00' 39"W
C39	44.10	50.00	050°32'05"	42.68	S65° 38' 01"W
C40	6.46	10.00	036°59'16"	6.34	S69° 58' 17"E
C41	54.94	200.00	015°44'26"	54.77	N54° 43' 21"E
C42	54.94	200.00	015°44'26"	54.77	S54° 43' 21"W
C43	54.94	200.00	015°44'26"	54.77	N70° 27' 47"E
C44	54.94	200.00	015°44'26"	54.77	S70° 27' 47"W
C45	5.86	10.00	033°33'26"	5.77	S15° 57' 19"E
C46	44.29	50.00	050°44'52"	42.85	N43° 56' 11"E
C47	4.70	10.00	026°55'00"	4.65	S75° 00' 25"E
C48	35.12	325.00	006°11'30"	35.10	S85° 22' 10"E
C49	19.08	275.00	003°58'28"	19.07	N84° 15' 39"W

Curve Table					
Curve #	Length	Radius	Delta	Chord Length	Chord Bearing
C50	10.64	275.00	002°13'02"	10.64	N87° 21' 24"W
C51	29.72	275.00	006°11'30"	29.70	S85° 22' 10"E
C52	33.38	325.00	005°53'06"	33.37	N85° 12' 58"W
C53	1.74	325.00	000°18'24"	1.74	N88° 18' 43"W
C54	13.15	20.50	036°44'50"	12.92	S16° 44' 29"E
C55	83.78	57.50	083°28'56"	76.56	N32° 39' 14"E
C56	15.17	20.50	042°24'46"	14.83	N48° 59' 41"E
C63	25.11	325.00	004°25'36"	25.10	S07° 38' 07"E
C64	19.65	275.00	004°05'35"	19.64	S07° 48' 07"E
C69	12.96	21.10	035°10'56"	12.75	N29° 34' 32"E
C70	97.94	656.10	008°33'11"	97.85	N51° 26' 36"E
C71	33.05	654.61	002°53'34"	33.05	N58° 03' 09"E
C72	23.06	22.10	059°46'49"	22.03	N89° 23' 20"E
C73	34.52	27.60	071°39'56"	32.32	S24° 53' 17"E
C74	55.21	203.90	015°30'54"	55.05	S03° 11' 14"W
C75	53.84	51.10	060°21'53"	51.38	S25° 36' 44"W
C76	23.21	16.10	082°36'44"	21.25	N82° 53' 58"W
C77	88.57	65.90	077°00'15"	82.05	N80° 05' 44"W
C78	11.84	22.10	030°41'08"	11.70	S76° 44' 37"W
C79	26.88	21.10	072°58'43"	25.10	N51° 25' 26"W
C80	67.29	71.40	053°59'43"	64.82	N41° 55' 56"W
C81	8.89	21.10	024°08'56"	8.83	N56° 51' 20"W
C82	24.93	57.50	024°50'41"	24.74	S71° 59' 15"W
C96	90.41	57.50	090°05'33"	81.38	N80° 58' 47"E
C105	5.58	2.00	159°52'24"	3.94	S27° 24' 26"E
C106	28.89	164.50	010°03'48"	28.86	S57° 33' 40"W
C107	14.14	4.50	180°00'00"	9.00	N27° 24' 26"W
C108	28.89	164.50	010°03'48"	28.86	N67° 37' 28"E

GENERAL NOTES:

1. SUBDIVIDERS STATEMENT: SELLING A PORTION OF THIS ADDITION BY MEETS AND BOUNDS IS UNLAWFUL AND A VIOLATION OF THE SUBDIVISION ORDINANCE OF THE CITY OF ROCKWALL AND *CHAPTER 212, MUNICIPAL REGULATION OF SUBDIVISIONS AND PROPERTY DEVELOPMENT, OF THE TEXAS LOCAL GOVERNMENT CODE*, AND SHALL BE SUBJECT TO THE CITY OF ROCKWALL WITHHOLDING UTILITIES AND BUILDING PERMITS.
2. PUBLIC IMPROVEMENT STATEMENT: IT SHALL BE THE POLICY OF THE CITY OF ROCKWALL TO WITHHOLD ISSUING BUILDINGS PERMITS UNTIL ALL STREETS, WATER, SEWER AND STORM DRAINAGE SYSTEMS HAVE BEEN ACCEPTED BY THE CITY. THE APPROVAL OF A SUBDIVISION PLAT BY THE CITY OF ROCKWALL DOES NOT CONSTITUTE ANY REPRESENTATION, ASSURANCE OR GUARANTEE THAT ANY BUILDING WITHIN SUCH SUBDIVISION PLAT SHALL BE APPROVED, AUTHORIZED, OR PERMIT ISSUE, NOR SHALL SUCH APPROVAL CONSTITUTE ANY REPRESENTATION, ASSURANCE OR GUARANTEE BY THE CITY OF ROCKWALL OF THE ADEQUACY AND AVAILABILITY FOR WATER AND SANITARY SEWER FOR PERSONAL USE AND FIRE PROTECTION WITHIN SUCH SUBDIVISION PLAT, AS REQUIRED UNDER THE SUBDIVISION ORDINANCE OF THE CITY OF ROCKWALL.
3. DRAINAGE AND DETENTION EASEMENTS: THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING, REPAIRING, AND REPLACING AND SHALL BEAR SOLE LIABILITY OF ALL SYSTEMS WITHIN THE DRAINAGE AND DETENTION EASEMENTS.
4. STREET APPURTENANCES: ALL DECORATIVE SIGNAGE, POSTS, OR LIGHTS INSTALLED IN PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED, MAINTAINED, REPAIRED, AND REPLACED BY THE HOMEOWNER'S ASSOCIATION (HOA).

FINAL PLAT

PARK HILLS

LOTS 1-20, BLOCK A; LOTS 1-9, BLOCK B;
LOTS 1-28, BLOCK C; LOTS 1-52, BLOCK D;
LOTS 1-27, BLOCK E; LOTS 1-22, BLOCK F;
65.309 ACRES OR 2,844,879.13 SF
144 SINGLE FAMILY LOTS AND
13 OPEN SPACE LOTS
SITUATED WITHIN
TRACT 6 AND PORTIONS OF TRACTS 1 AND 6-1 OF THE
GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
P2023-012
June 12, 2023
EXIST. ZONING: PD-98
LAND USE: SF
SHEET 4 OF 5

Owner/Applicant:
Qualico Developments (U.S.), Inc.
6950 TPC Drive, Suite 350
McKinney, Texas 75070
Phone: 469-659-6150

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite 1200
Plano, Texas 75074
Phone: 972-201-3102
Contact: Tom Dayton, PE

JOHNSON VOLK CONSULTING
TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

LEGAL DESCRIPTION:
65.309 ACRES

BEING a tract of land situated in the GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183, City of Rockwall, Rockwall County, Texas and being all of OAK CREEK, an Addition to the City of Rockwall, Rockwall County, Texas according to the Plat thereof recorded in Cabinet B, Slide 201, Plat Records, Rockwall County, Texas and being part of those tracts of land described in Deed to Rockwall Property Corporation, as recorded in Volume 444, Page 146 and Volume 2002, Page 150, Deed Records, Rockwall County, Texas and being all of that tract of land described in Deed to Rockwall Property Corporation, as recorded in Volume 2051, Page 53, Deed Records, Rockwall County, Texas and being more particularly described as follows:

BEGINNING at a 1/2 inch iron rod found in the south line of State Highway No. 66, a 60 foot right–of–way, for the common northwest corner of said OAK CREEK Addition and said Rockwall Property Corporation tract recorded in Volume 2051, Page 53 and northeast corner of that tract of land described in Deed to Rockwall Independent School District, as recorded in Volume 105, Page 153, Deed Records, Rockwall County, Texas;

THENCE North 88 degrees 29 minutes 03 seconds East, with said south line, a distance of 411.45 feet to a wood post found for the common northeast corner of said OAK CREEK Addition and said Rockwall Property Corporation tract recorded in Volume 2051, Page 53 and northwest corner of said Rockwall Property Corporation tract recorded in Volume 2002, Page 150;

THENCE South 00 degrees 56 minutes 16 seconds East, leaving said south line and with the common west line of said Rockwall Property Corporation tract recorded in Volume 2002, Page 150 and east line of said OAK CREEK Addition and said Rockwall Property Corporation tract recorded in Volume 2051, Page 53, a distance of 705.40 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for corner;

THENCE North 59 degrees 30 minutes 28 seconds East, leaving said common line, a distance of 503.69 feet to a point for corner;

THENCE South 69 degrees 21 minutes 48 seconds East, a distance of 40.60 feet to a point for corner;

THENCE South 25 degrees 06 minutes 25 seconds East, a distance of 64.89 feet to a point for corner;

THENCE South 31 degrees 25 minutes 37 seconds East, a distance of 51.80 feet to a point for corner;

THENCE South 09 degrees 09 minutes 13 seconds East, a distance of 55.61 feet to a point for corner;

THENCE South 16 degrees 55 minutes 05 seconds East, a distance of 49.61 feet to a point for corner;

THENCE South 03 degrees 11 minutes 20 seconds East, a distance of 109.33 feet to a point for corner;

THENCE South 04 degrees 27 minutes 24 seconds East, a distance of 60.49 feet to a point for corner;

THENCE South 16 degrees 19 minutes 49 seconds West, a distance of 39.76 feet to a point for corner;

THENCE South 08 degrees 12 minutes 45 seconds East, a distance of 48.89 feet to a point for corner;

THENCE South 64 degrees 09 minutes 47 seconds East, a distance of 66.87 feet to a point for corner;

THENCE South 47 degrees 50 minutes 45 seconds East, a distance of 73.04 feet to a point for corner;

THENCE South 42 degrees 29 minutes 55 seconds East, a distance of 44.81 feet to a point for corner;

THENCE North 85 degrees 31 minutes 53 seconds East, a distance of 53.72 feet to a point for corner;

THENCE South 25 degrees 10 minutes 09 seconds East, a distance of 84.31 feet to a point for corner;

THENCE South 42 degrees 22 minutes 14 seconds East, a distance of 59.42 feet to a point for corner;

THENCE South 47 degrees 09 minutes 28 seconds East, a distance of 72.07 feet to a point for corner;

THENCE South 02 degrees 46 minutes 29 seconds West, a distance of 57.76 feet to a point for corner;

THENCE South 31 degrees 26 minutes 15 seconds East, a distance of 71.66 feet to a point for corner;

THENCE South 18 degrees 53 minutes 46 seconds East, a distance of 88.10 feet to a point for corner;

THENCE South 11 degrees 41 minutes 53 seconds East, a distance of 110.02 feet to a point for corner;

THENCE South 53 degrees 25 minutes 21 seconds West, a distance of 34.88 feet to a point for corner;

THENCE South 20 degrees 12 minutes 22 seconds East, a distance of 44.84 feet to a point for corner;

THENCE South 79 degrees 08 minutes 23 seconds East, a distance of 90.02 feet to a point for corner;

THENCE South 56 degrees 28 minutes 11 seconds East, a distance of 62.92 feet to a point for corner;

THENCE South 87 degrees 49 minutes 07 seconds East, a distance of 28.55 feet to a point for corner;

THENCE South 05 degrees 58 minutes 08 seconds West, a distance of 28.02 feet to a point for corner;

THENCE South 10 degrees 07 minutes 55 seconds East, a distance of 46.33 feet to a point for corner;

THENCE South 10 degrees 56 minutes 13 seconds East, a distance of 88.76 feet to a point for corner;

THENCE South 42 degrees 32 minutes 37 seconds East, a distance of 66.83 feet to a point for corner;

THENCE South 05 degrees 48 minutes 00 seconds West, a distance of 37.66 feet to a point for corner;

THENCE South 27 degrees 06 minutes 51 seconds East, a distance of 115.84 feet to a point for corner;

THENCE South 36 degrees 05 minutes 07 seconds East, a distance of 93.26 feet to a point for corner;

THENCE South 09 degrees 53 minutes 27 seconds East, a distance of 144.51 feet to a point for corner in the common south line of said Rockwall Property Corporation tract recorded in Volume 444, Page 146 and north line of that tract of land described in Deed to Robert O. Dillender and wife, Sherry Dillender, as recorded in Volume 3356, Page 177, Deed Records, Rockwall County, Texas;

THENCE Westerly, with said south line, the following four (4) courses and distances:

North 89 degrees 15 minutes 43 seconds West, a distance of 1,002.42 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the common northwest corner of that tract of land described in Deed to F&F Holdings I, Ltd., as recorded in Document No. 20200000031089, Deed Records, Rockwall County, Texas and northeast corner of that tract of land described in Deed to D. Richard Devenney and wife, Diana Devenney, as recorded in Volume 165, Page 116, Deed Records, Rockwall County, Texas;

North 87 degrees 11 minutes 23 seconds West, a distance of 295.74 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the common northwest corner of said D. Richard Devenney and wife, Diana Devenney tract and an interior ell corner of said Rockway Property Corporation tract recorded in Volume 444, Page 146;

South 01 degrees 26 minutes 13 seconds West, a distance of 426.00 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the common southwest corner of said D. Richard Devenney and wife, Diana Devenney tract and an exterior ell corner of said Rockway Property Corporation tract recorded in Volume 444, Page 146;

South 88 degrees 33 minutes 07 seconds West, a distance of 724.98 feet to a 1/2 inch iron rod with a red plastic cap stamped "SPARK SURVEY" found in the north line of Washington Street, a variable width right–of–way, for the common southwest corner of said Rockwall Property Corporation tract recorded in Volume 444, Page 146 and southeast corner of that tract of land described in Deed to City of Rockwall, as recorded in Volume 2163, Page 96, Deed Records, Rockwall County, Texas;

THENCE Northerly, with the east line of said City of Rockwall tract, the following three (3) courses and distances:

North 24 degrees 23 minutes 30 seconds East, a distance of 884.48 feet to a 1/2 inch iron rod with a red plastic cap stamped "SPARK SURVEY" found at the beginning of a curve to the left having a central angle of 25 degrees 00 minutes 38 seconds, a radius of 700.00 feet and a chord bearing and distance of North 11 degrees 53 minutes 11 seconds East, 303.14 feet;

Northerly, with said curve to the left, an arc distance of 305.56 feet to a 1/2 inch iron rod with a red plastic cap stamped "SPARK SURVEY" found for corner;

North 00 degrees 37 minutes 07 seconds West, a distance of 201.44 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the common northeast corner of said City of Rockwall tract and an exterior ell corner of said Rockwall Property Corporation tract recorded in Volume 444, Page 146;

THENCE South 89 degrees 07 minutes 35 seconds West, a distance of 762.97 feet to a 3/8 inch iron rod found for the common northwest corner of said City of Rockwall tract and northeast corner of MUNICIPAL PARK ADDITION, an Addition to the City of Rockwall, Rockwall County, Texas according to the Plat thereof recorded in Cabinet B, Slide 49, Plat Records, Rockwall County, Texas;

THENCE South 89 degrees 15 minutes 52 seconds West, with the north line of said MUNICIPAL PARK ADDITION, a distance of 297.37 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the southwest corner of the above mentioned OAK CREEK Addition;

THENCE North 59 degrees 30 minutes 28 seconds East, leaving said north line and with the west line of said OAK CREEK Addition, a distance of 1,091.77 feet to a 1/2 inch iron rod found for corner;

THENCE North 01 degrees 18 minutes 48 seconds West, continuing with said west line, a distance of 759.30 feet to the POINT OF BEGINNING and containing 65.309 acres of land, more or less.

OWNER'S CERTIFICATION:

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS §
COUNTY OF ROCKWALL §

I (we) the undersigned owner(s) of the land shown on this plat, and designated herein as the **PARK HILLS** subdivision to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever any streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. I (we) further certify that all other parties who have a mortgage or lien interest in the **PARK HILLS** subdivision have been notified and signed this plat. I (we) understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same. I (we) also understand the following:

1. No buildings shall be constructed or placed upon, over, or across the utility easements as described herein.
2. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency of their respective system on any of these easement strips; and any public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maintaining, and either adding to or removing all or part of there respective system without the necessity of, at any time, procuring the permission of anyone.
3. The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.
4. The developer and subdivision engineer shall bear total responsibility for storm drain improvements.
5. The developer shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development.
6. No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm sewers, and alleys all according to the specifications of the City of Rockwall; or

Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay the same out of the escrow deposit, should the developer and/or owner fail to refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done; or

Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which shall be fixed by the city council of the City of Rockwall.

I (we) further acknowledge that the dedications and/or exactions made herein are proportional to the impact of the Subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City; I (we), my (our) successors and assigns hereby waive any claim, damage, or cause of action that I (we) may have as a result of the dedication of exactions made herein.

Signature _____
Name _____
Title _____

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared _____ of QUALICO DEVELOPMENTS (U.S.), INC., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein stated.

Given under my hand and seal of office, this ____ day of _____, 2023.

_____ _____
Notary public in and for the State of Texas My Commission Expires

SURVEYOR'S CERTIFICATE:

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

THAT I, Ryan S. Reynolds, do hereby certify that I prepared this plat from an actual and accurate survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision.

_____
RYAN S. REYNOLDS, R.P.L.S.
Texas Registered Professional Land Surveyor No. 6385.

STATE OF TEXAS §
COUNTY OF COLLIN §

APPROVED:
I hereby certify that the above and forgoing subdivision plat –– being an addition to the City of Rockwall, Texas –– was approved by the City Council of the City of Rockwall on ____ day of _____, 2023.

_____ _____
MAYOR OF THE CITY OF ROCKWALL PLANNING AND ZONING COMMISSION CHAIRMAN

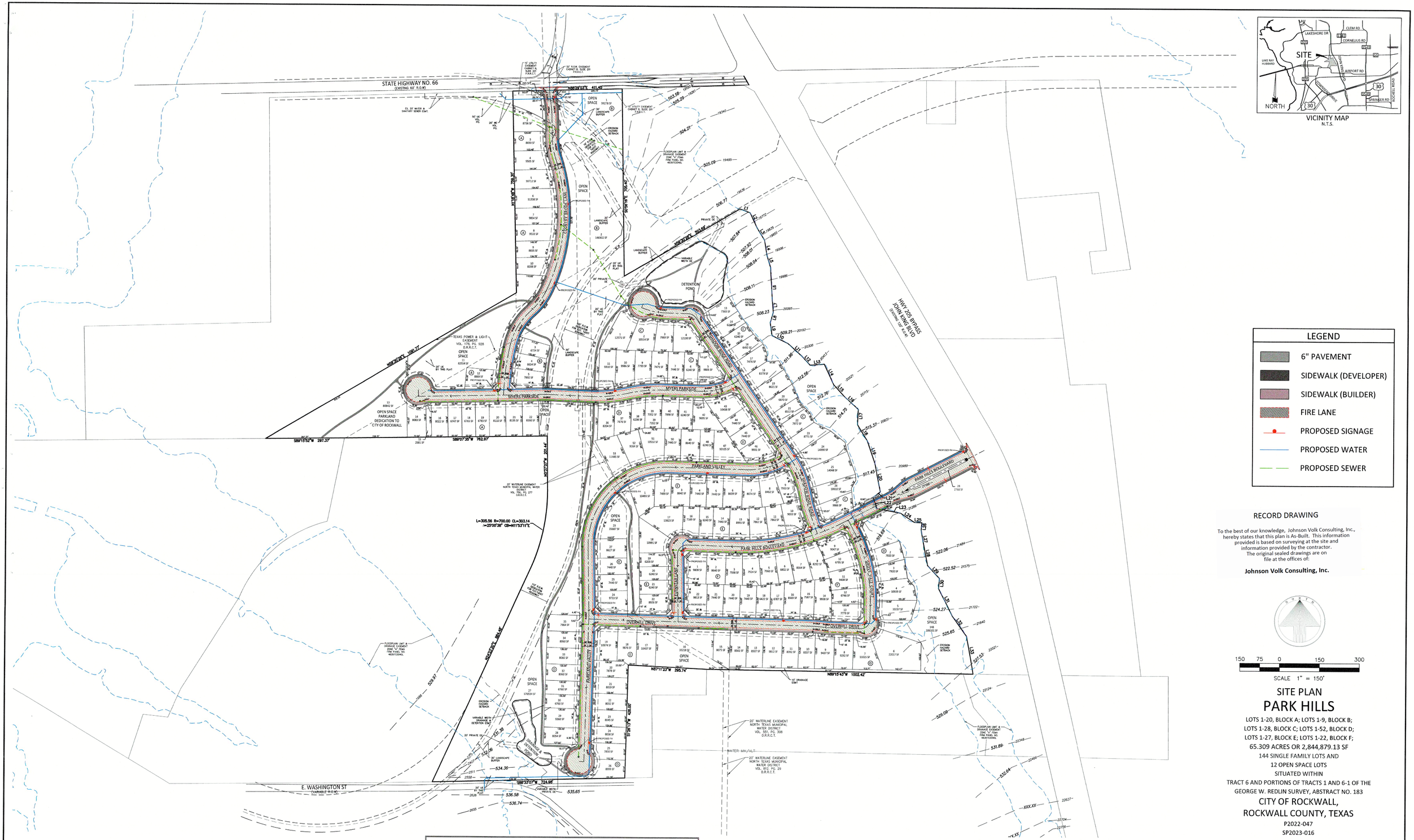
_____ _____
CITY SECRETARY CITY ENGINEER

FINAL PLAT
PARK HILLS
LOTS 1-20, BLOCK A; LOTS 1-9, BLOCK B;
LOTS 1-28, BLOCK C; LOTS 1-52, BLOCK D;
LOTS 1-27, BLOCK E; LOTS 1-22, BLOCK F;
65.309 ACRES OR 2,844,879.13 SF
144 SINGLE FAMILY LOTS AND
13 OPEN SPACE LOTS
SITUATED WITHIN
TRACT 6 AND PORTIONS OF TRACTS 1 AND 6-1 OF THE
GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
P2023-012
June 12, 2023
EXIST. ZONING: PD-98
LAND USE: SF
SHEET 5 OF 5

Owner/Applicant:
Qualico Developments (U.S.), Inc.
6950 TPC Drive, Suite 350
McKinney, Texas 75070
Phone: 469-659-6150

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite 1200
Plano, Texas 75074
Phone: 972-201-3102
Contact: Tom Dayton, PE

JOHNSON VOLK CONSULTING
TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100



VICINITY MAP
N.T.S.

LEGEND

- 6" PAVEMENT
- SIDEWALK (DEVELOPER)
- SIDEWALK (BUILDER)
- FIRE LANE
- PROPOSED SIGNAGE
- PROPOSED WATER
- PROPOSED SEWER

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

SCALE 1" = 150'

SITE PLAN
PARK HILLS

LOTS 1-20, BLOCK A; LOTS 1-9, BLOCK B;
LOTS 1-28, BLOCK C; LOTS 1-52, BLOCK D;
LOTS 1-27, BLOCK E; LOTS 1-22, BLOCK F;
65.309 ACRES OR 2,844,879.13 SF
144 SINGLE FAMILY LOTS AND
12 OPEN SPACE LOTS
SITUATED WITHIN
TRACT 6 AND PORTIONS OF TRACTS 1 AND 6-1 OF THE
GEORGE W. REDLIN SURVEY, ABSTRACT NO. 183
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

P2022-047
SP2023-016

May 18, 2023

BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.61' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE NORTHEAST SIDE OF MIMS ROAD AT THE SOUTHERLY END OF A CONCRETE HEADWALL AT THE INTERSECTION OF THE NORTHEAST LINE OF MIMS ROAD WITH THE SOUTHEAST LINE OF I-30.
ELEVATION = PLAN 565.98' FIELD 566.02'

SITE PLAN SIGNATURE BLOCK:

APPROVED:
I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE _____ DAY OF _____, 20__.

WITNESS OUR HANDS, THIS _____ DAY OF _____, 20__.

PLANNING & ZONING COMMISSION, CHAIRMAN

DIRECTOR OF PLANNING & ZONING

Owner/Applicant:
Qualico Developments (U.S), Inc.
6950 TPC Drive, Suite 350
McKinney, TX 78660

Engineer/Surveyor:
Johnson Volk Consulting, Inc.
704 Central Parkway East, Suite. 1200
Plano, Texas 75074
Phone: 972-201-3102
Contact: Joel Richey, PE

JOHNSON VOLK CONSULTING
TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

GENERAL ITEMS

1. All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of the NCTCOG Standard Specifications and Details and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times

2. Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.

3. The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: http://www.rockwall.com/engr.asp

4. All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.

5. Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.

6. The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".

7. All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.

8. All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.

9. The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.

10. A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

EROSION CONTROL & VEGETATION

1. The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ). This includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the Notice of Termination (NOT) and any Notice of Change (NOC) and is required to pay all associated fees

2. Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.

3. All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.

4. If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when applicable.

5. All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.

6. The CONTRACTOR shall not dispose of waste and any materials into streams, waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials.

7. CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.

8. CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.

9. All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.

10. All adjacent streets/alleys shall be kept clean at all times

11. CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.

12. Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not meet. Work may commence after deficiency has been rectified.

13. During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.

14. Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement washing shall be allowed only after sediment is removed in this manner.

15. All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of cleaning.

16. During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge into a receiving outlet.

TRAFFIC CONTROL

1. All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval a minimum of 21 calendar days prior to planned day of implementation.

2. When the normal function of the roadway is suspended through closure of any portion of the right-of-way, temporary construction work zone traffic control devices shall be installed to effectively guide the motoring public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow is an integral element of every traffic control zone.

3. All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur on roadways without an approval from the Rockwall Engineering Department and an approved traffic control plan. Traffic control plans shall be required on all roadways as determined by the City Engineer or the designated representative.

4. All traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.

5. The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks prior to any the closures in writing and verbally.

6. Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.

7. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer appropriate shall be removed or covered. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure.

8. Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during peak hours of 7:00 am - 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual start-finish times of the actual school with approval by the City Engineer. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will charged one working day for each 24 hour closure of a roadway whether they are working or not.

9. No traffic signs shall be taken down without permission from the City.

10. No street/roadway will be allowed to be fully closed.

UTILITY LINE LOCATES

1. It is the CONTRACTOR'S responsibility to notify utility companies to arrange for utility locates at least 48 hours prior to beginning construction. The completeness and accuracy of the utility data shown on the plans is not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the depth and location of existing underground utilities prior to excavating, trenching, or drilling and shall be required to take any precautionary measures to protect all lines shown and or any other underground utilities not on record or not shown on the plans.

2. The CONTRACTOR shall be responsible for damages to utilities

3. CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.

4. All utilities shall be placed underground.

5. CONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or exposed by construction operations. Where existing mains or service lines are cut, broken or damaged, the CONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original construction or better. The City of Rockwall can and will intervene to restore service if deemed necessary and charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a timely manner by the CONTRACTOR.

6. The City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call - 811 - line locate system. All City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.

7. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria: No more than 500 linear feet of trench may be opened at one time. Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends. Applicable safety regulations shall be complied with.

11. This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.

12. All underground lines shall be installed, inspected, and approved prior to backfilling.

13. All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

WATER LINE NOTES

1. The CONTRACTOR shall maintain existing water service at all times during construction.

2. Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.

3. Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's engineering standards of design and construction manual.

4. CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well as any costs incurred when the loss of fire protection to a structure occurs.

5. CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves (both existing and proposed).

6. All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal Service Center.

7. Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed water line and every 250'.

8. All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.

9. All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.

10. Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.

11. All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited to parking spaces and landscaping.

12. All joints are to be megalug joints with thrust blocking.

13. Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.

14. CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.

15. All domestic and irrigation services are required to have a testable backflow device with a double check valve installed per the City of Rockwall regulations at the property line and shown on plans.

WASTEWATER LINE NOTES

1. The CONTRACTOR shall maintain existing wastewater service at all times during construction.

2. Wastewater line for 4-inch through 15-inch shall be Green PVC - SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and lager wastewater line shall be Green PVC - PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services will be allowed on a sanitary sewer line deeper than 10 feet.

3. Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's public works standard design and construction manual.

4. Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.

5. CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals are accounted for and transferred to proposed wastewater lines prior to abandonment.

6. All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.

7. Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.

8. All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth

(20th) month of the maintenance period.

9. All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform to the measures called out in standard detail R-5031.

10. All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal.. Consheild must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.

11. All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim and cover to prevent inflow.

12. If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.

13. CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.

DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

1. All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.

2. Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.

3. All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.

4. No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess

materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

PAVING AND GRADING

1. All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.

2. All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Street/Pavement Type	Minimum Thickness (inches)	Strength 28-Day (psi)	Minimum Cement (sacks / CY)		Steel Reinforcement	
			Machine placed	Hand placed	Bar #	Spacing (O.C.E.W.)
Arterial	10"	3,600	6.0	6.5	#4 bars	18"
Collector	8"	3,600	6.0	6.5	#4 bars	18"
Residential	6"	3,600	6.0	6.5	#3 bars	24"
Alley	7"-5"-7"	3,600	6.0	6.5	#3 bars	24"
Fire Lane	6"	3,600	6.0	6.5	#3 bars	24"
Driveways	6"	3,600	6.0	6.5	#3 bars	24"
Barrier Free Ramps	6"	3,600	N/A	6.5	#3 bars	24"
Sidewalks	4"	3,600	N/A	5.5	#3 bars	24"
Parking Lot / Drive Aisles	5"	3,600	5.0	5.5	#3 bars	24"
Dumpster Pads	7"	3,600	6.0	6.5	#3 bars	24"

3. Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudinal butt joint constructed.

4. No sand shall be allowed under any paving.

5. All concrete mix design shall be submitted to the City for review and approval prior to placement.

6. Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.

7. All curb and gutter shall be integral (monolithic) with the pavement.

8. All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.

9. All concrete compression tests and soil compaction/density tests are required to be submitted to the City's Engineering Inspector immediately upon results.

10. All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).

11. All public sidewalks shall be doweled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.

12. All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)

13. Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.

14. All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.

15. Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.

16. All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.

17. CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.

18. CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.

19. CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

DRAINAGE / STORM SEWER NOTES

1. The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.

2. All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.

3. Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.

4. All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.

5. All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.

6. All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.

7. All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.

8. All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.

RETAINING WALLS

1. All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department

2. All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.

3. All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.

4. All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.

5. No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

FINAL ACCEPTANCE AND RECORD DRAWINGS/AS-BUILTS

1. Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.

2. After improvements have been constructed, the developer shall be responsible for providing to the City "As-Built" or "Record Drawings". The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.

3. Submit 1-set of printed drawings of the "Record Drawings" containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the "Record Drawing" digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.

4. Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as "Record Drawings" or "As Built Drawings" on all sheets.

5. The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer's surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like,or similar disclaimer verbiage will not be accepted by the City of Rockwall.

6. Example of Acceptable Disclaimer: "To the best of our knowledge ABC Engineering, Inc., hereby states that, this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor."

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

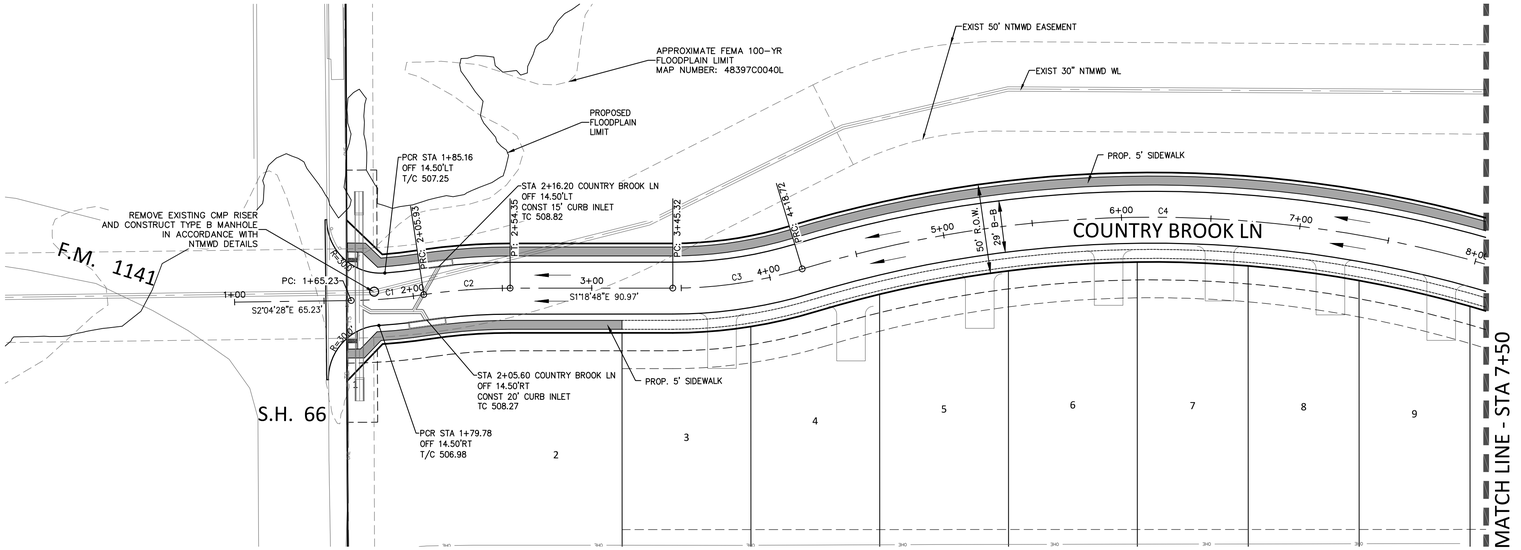
GENERAL NOTES

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/15/2023

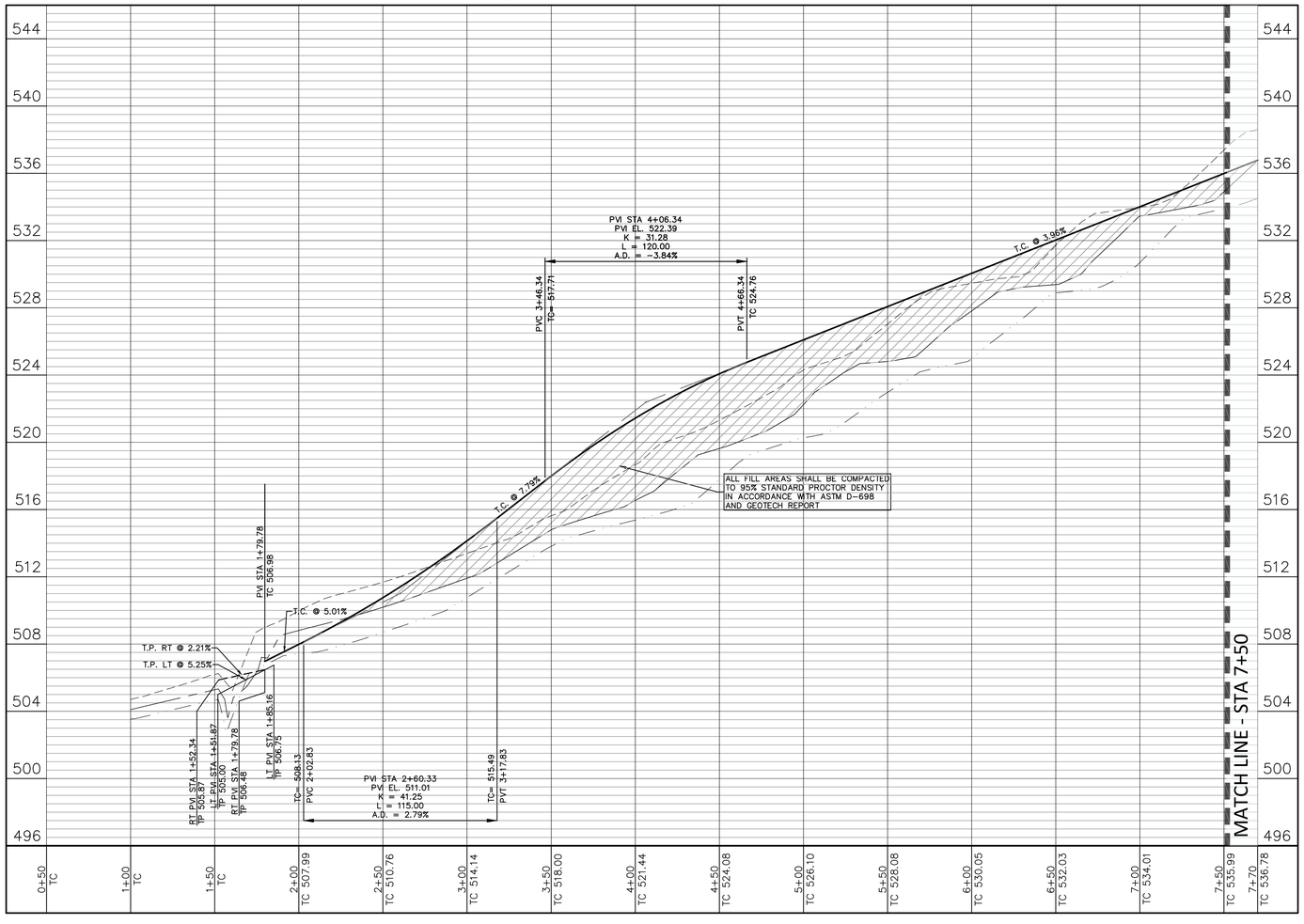
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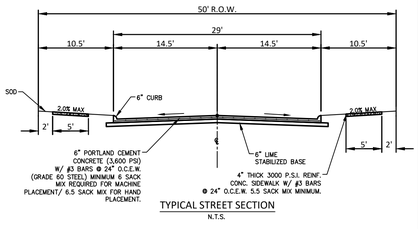
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COUNTRY BROOK LN

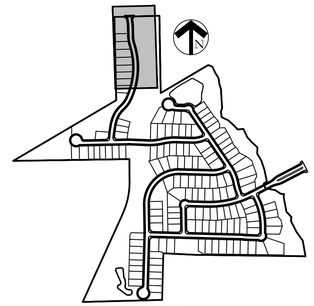


REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.



TYPICAL STREET SECTION
N.T.S.

Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C1	7°46'27"	300.00	40.71	S5° 57' 41.14"E	40.67
C2	8°32'06"	325.00	48.41	S5° 34' 51.48"E	48.37
C3	16°49'18"	250.00	73.40	S9° 43' 27.47"E	73.14
C4	43°11'57"	675.00	508.93	S3° 27' 52.04"W	496.96



KEY MAP

RECORD DRAWING

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PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK, STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.61' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
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ELEVATION = PLAN 565.98' FIELD 566.02'

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NORTH

40 20 0 40

SCALE 1" = 40'

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE -
COUNTRY BROOK LN - SHEET 1 OF 2

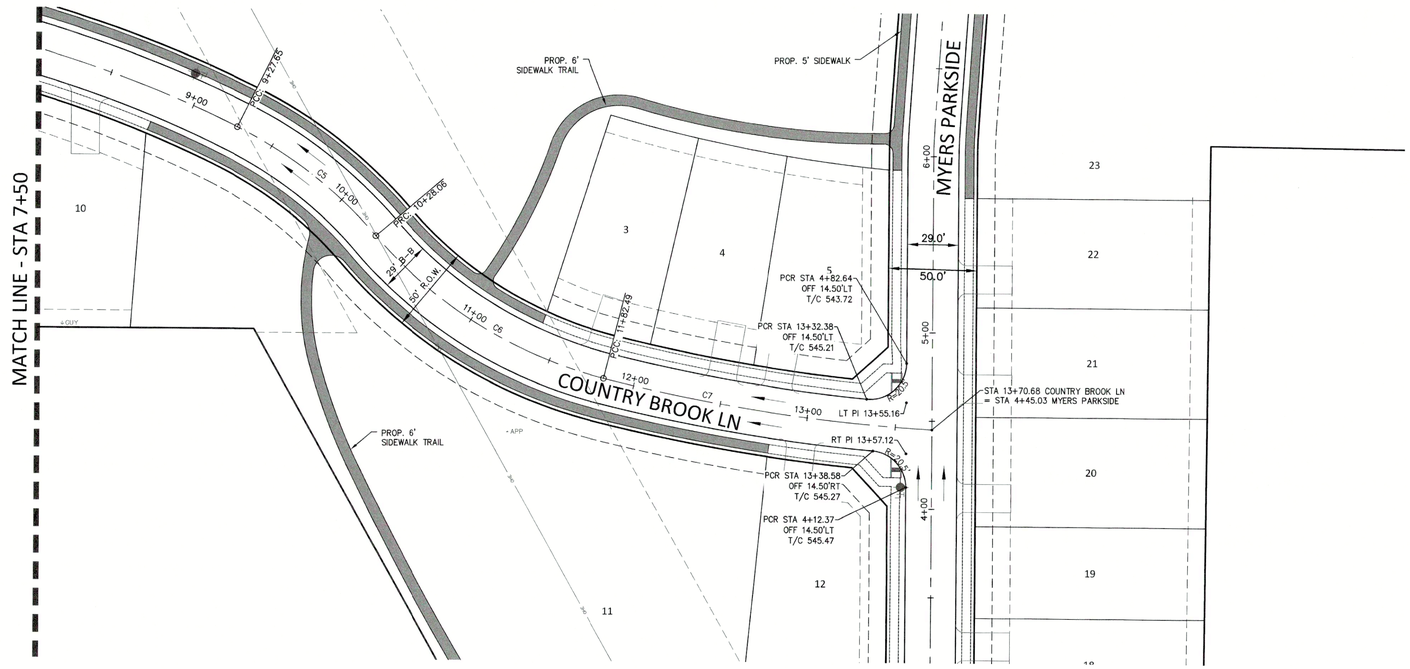
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
09/20/2023

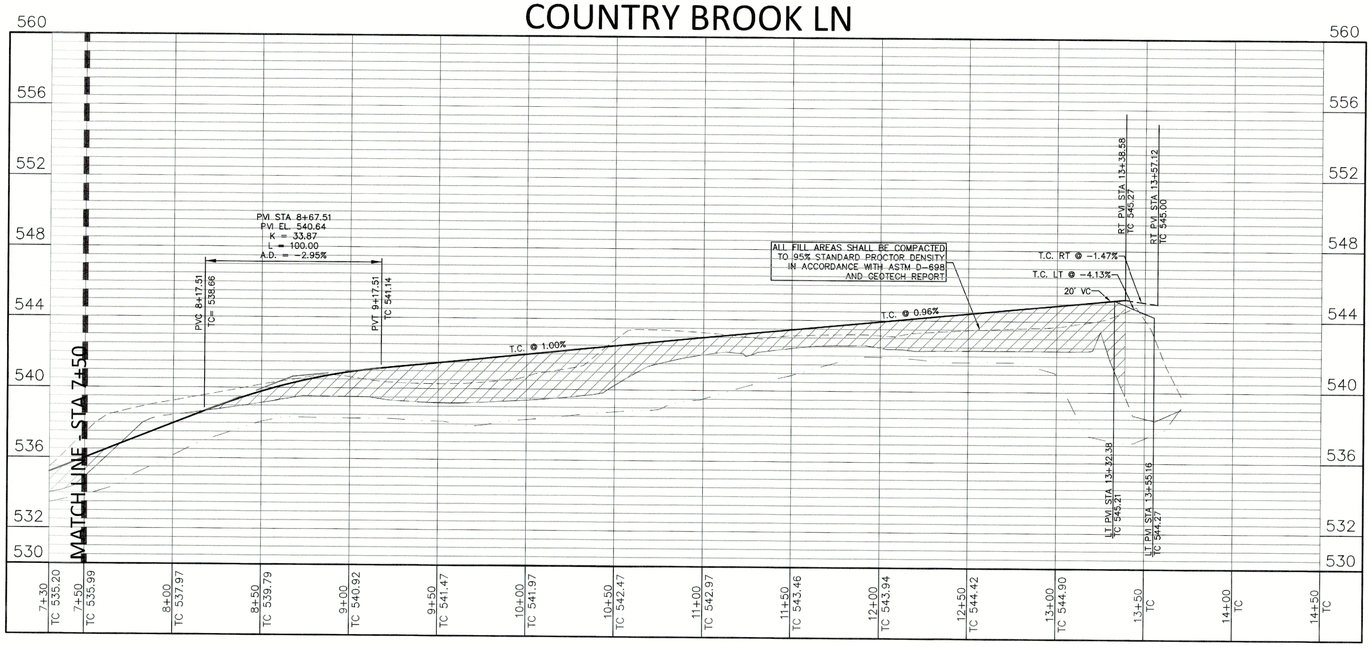
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1" = 4' (V)
One Inch

JVC No 502

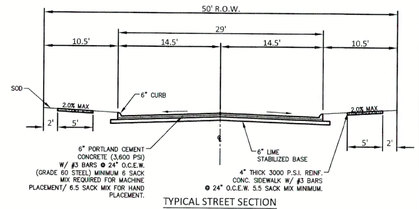
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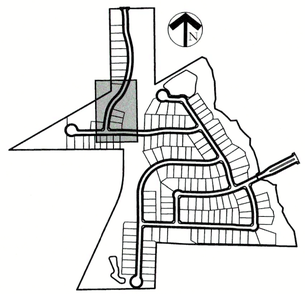


REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.



TYPICAL STREET SECTION
N.T.S.

Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C5	23°00'49"	250.00	100.42	S36° 34' 15.25"W	99.74
C6	35°23'34"	250.00	154.43	S30° 22' 52.48"W	151.99
C7	10°54'48"	988.00	188.19	S7° 13' 41.25"W	187.90



KEY MAP

PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

BENCHMARKS

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ELEVATION = PLAN 521.61' FIELD 521.57'

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NORTH

40 20 0 40
SCALE 1" = 40'

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE -
COUNTRY BROOK LN - SHEET 2 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

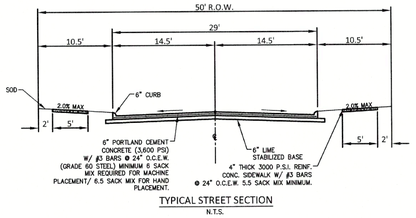
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One Inch
JVC No 502

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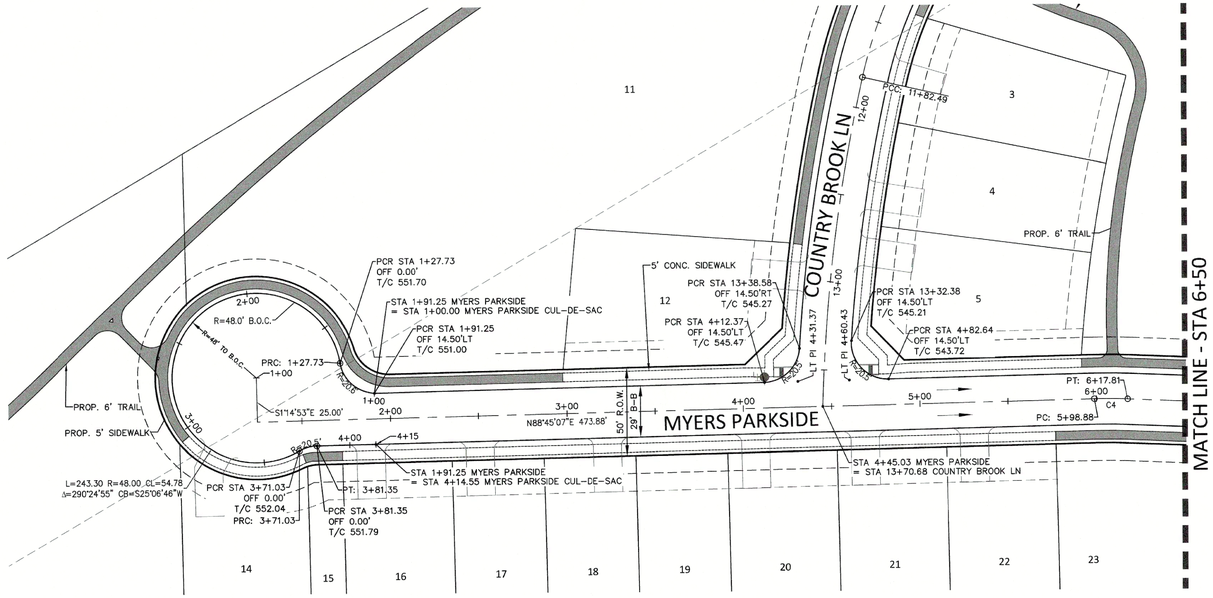
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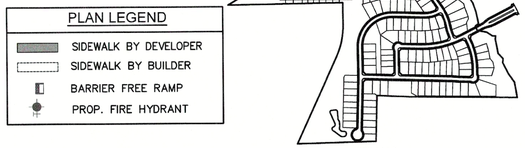
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

Curve Table					
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C4	3°37'01"	300.00	18.94	S89° 26' 22.16"E	18.93



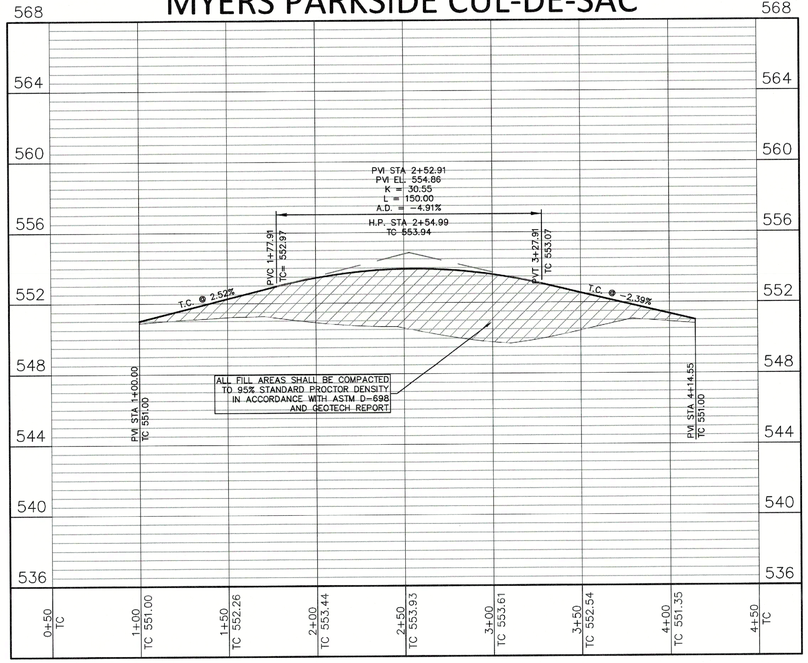
TYPICAL STREET SECTION
N.T.S.



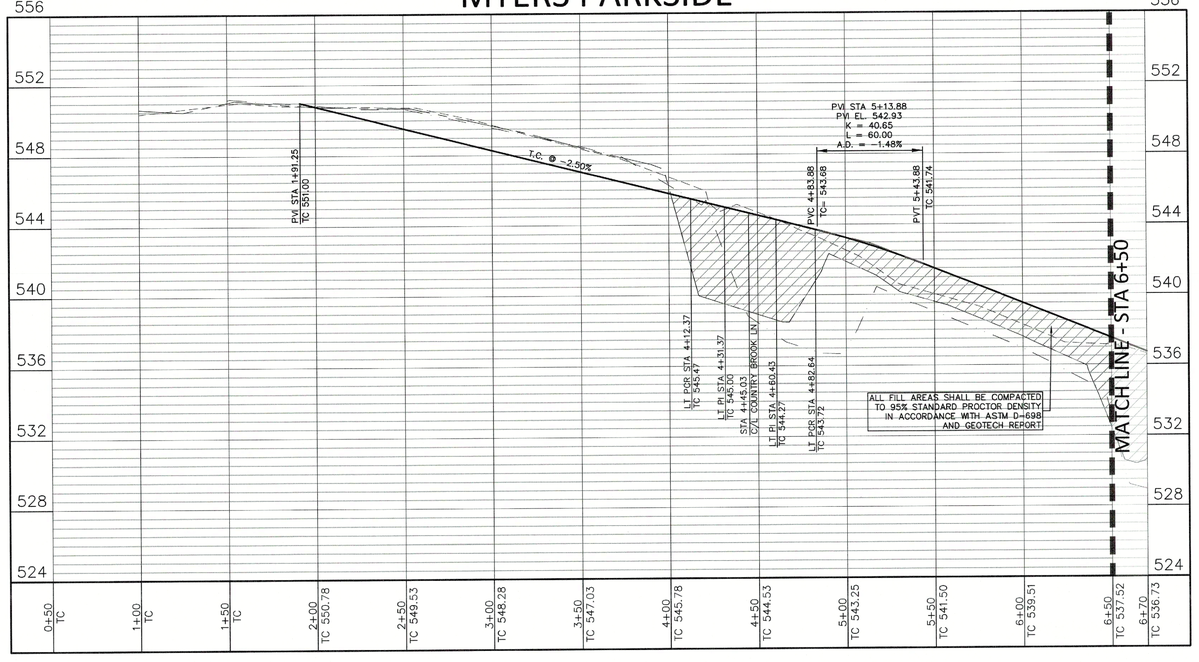


PROFILE LEGEND
- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

MYERS PARKSIDE CUL-DE-SAC



MYERS PARKSIDE



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ELEVATION = PLAN 551.61' FIELD 521.57'

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ELEVATION = PLAN 565.98' FIELD 566.02'

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NORTH
40 20 0 40
SCALE 1" = 40'

JOHNSON VOLK CONSULTING
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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - MYERS PARKSIDE - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

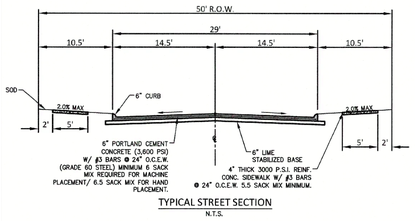
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One Inch
JVC No 502

10

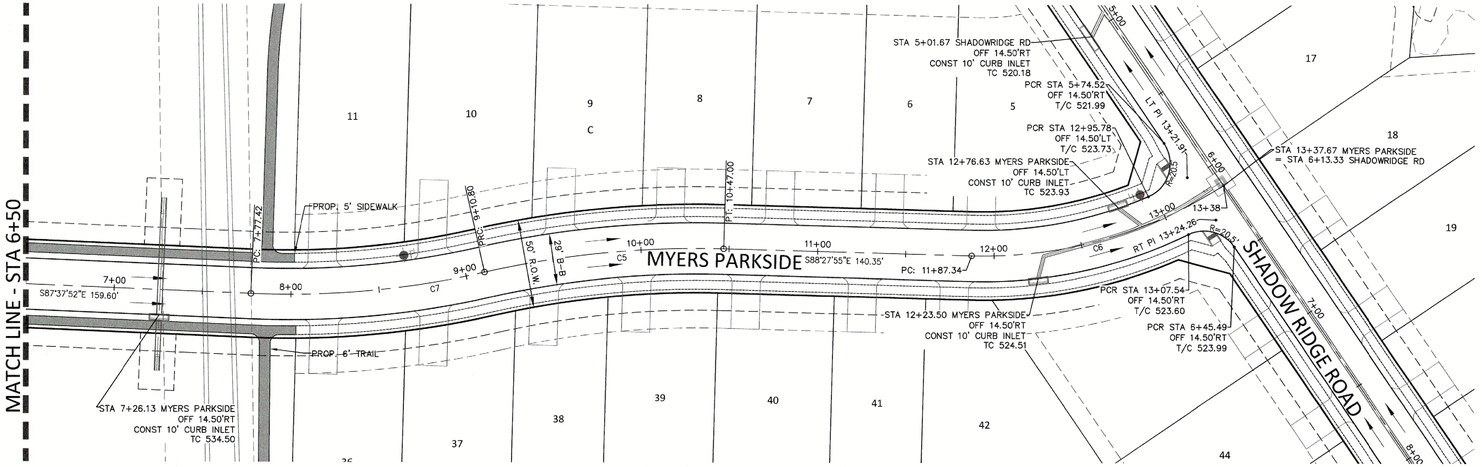
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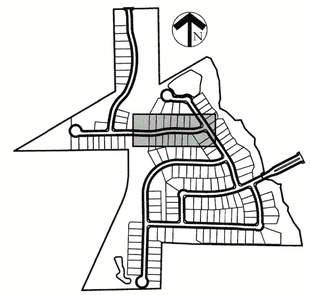
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER PAGE.

Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C5	14°27'02"	540.00	136.19	N84° 18' 34.21"E	135.83
C6	34°27'13"	250.00	150.33	N74° 18' 28.96"E	148.08
C7	15°17'05"	500.00	133.38	N84° 43' 35.69"E	132.99



TYPICAL STREET SECTION
N.T.S.

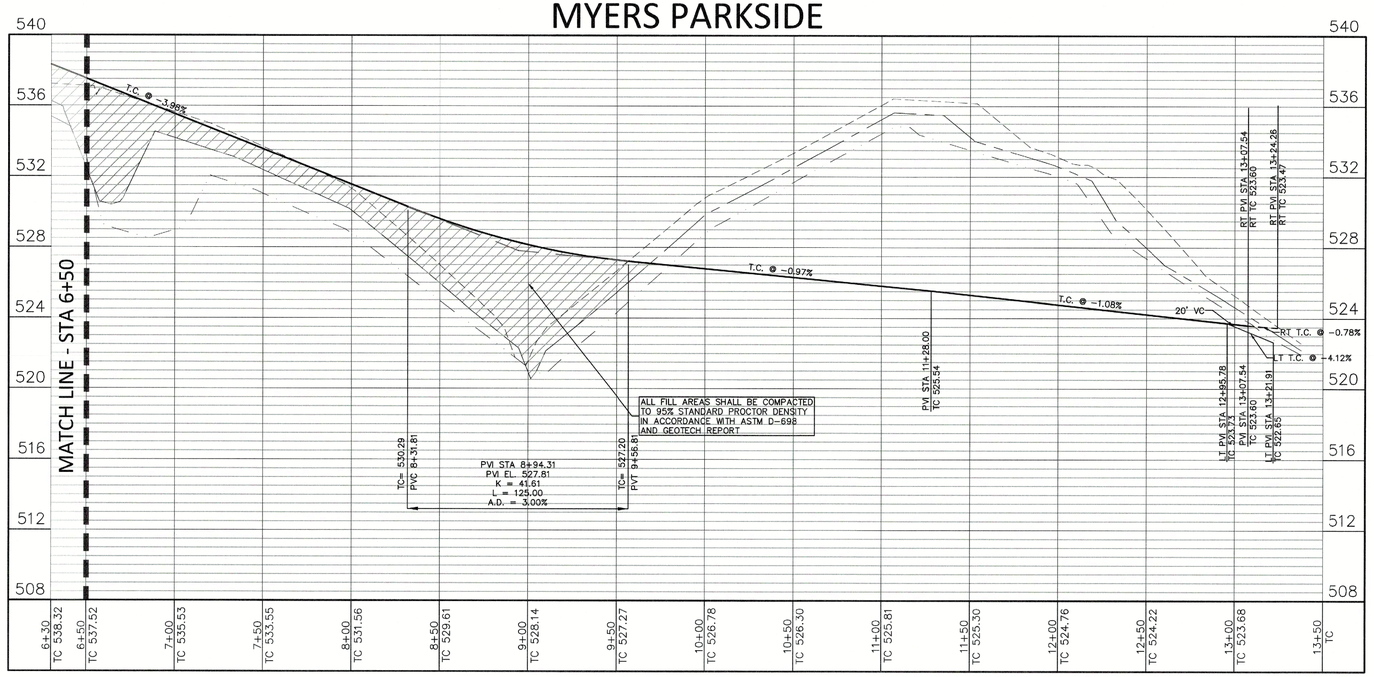




PLAN LEGEND
- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND
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- N.G. AT CENTERLINE
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MYERS PARKSIDE



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NORTH
40 20 0 40
SCALE 1" = 40'

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7104 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - MYERS PARKSIDE - SHEET 2 OF 2

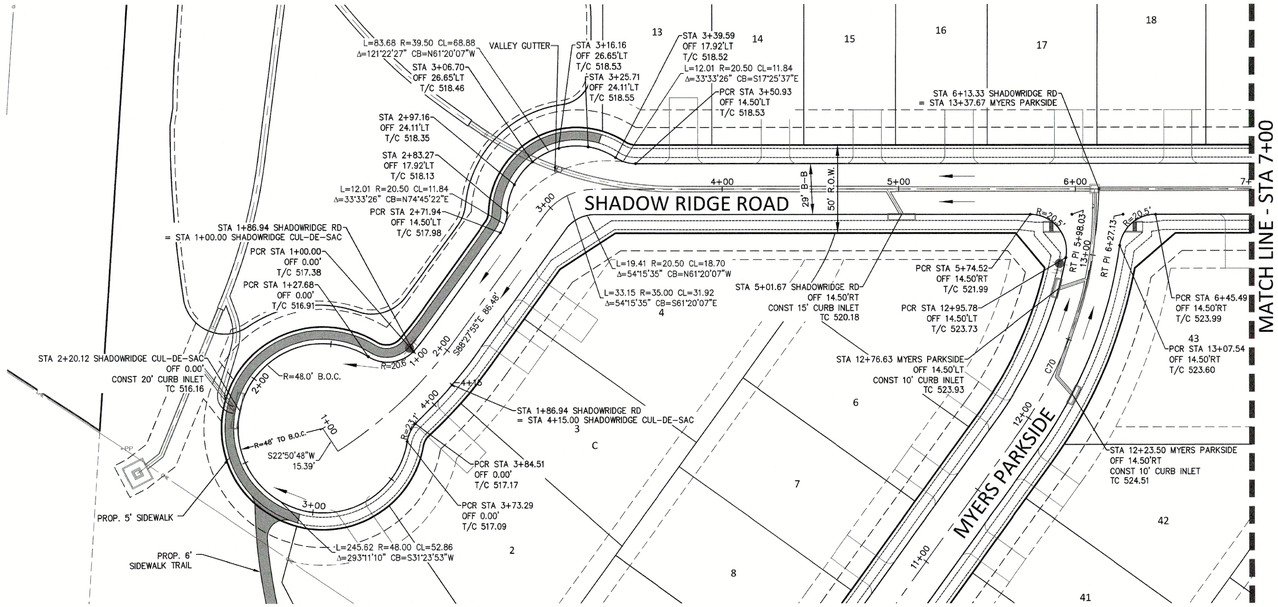
STATE OF TEXAS
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05/22/2023

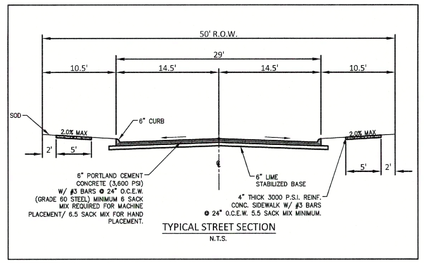
SCALE:
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1" = 4' (V)
One Inch

JVC No 502

11

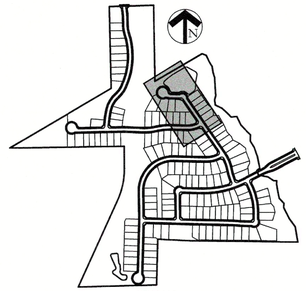
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TYPICAL STREET SECTION
N.T.S.

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.



KEY MAP

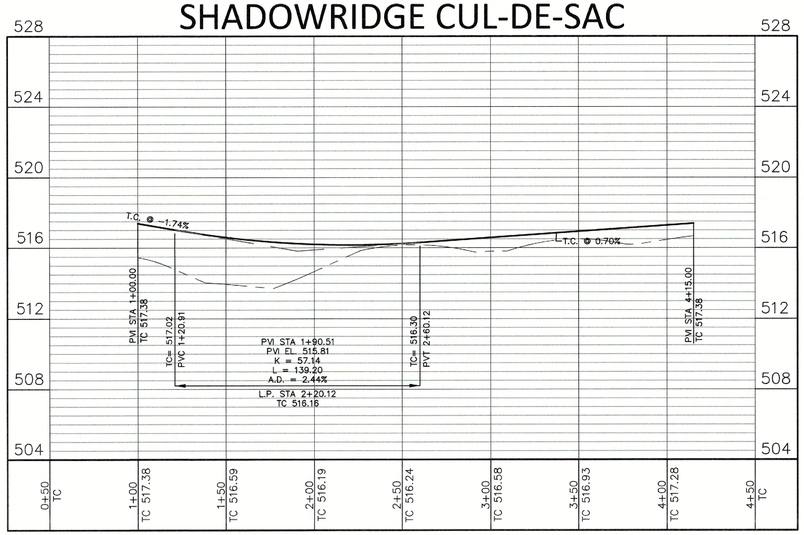
PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

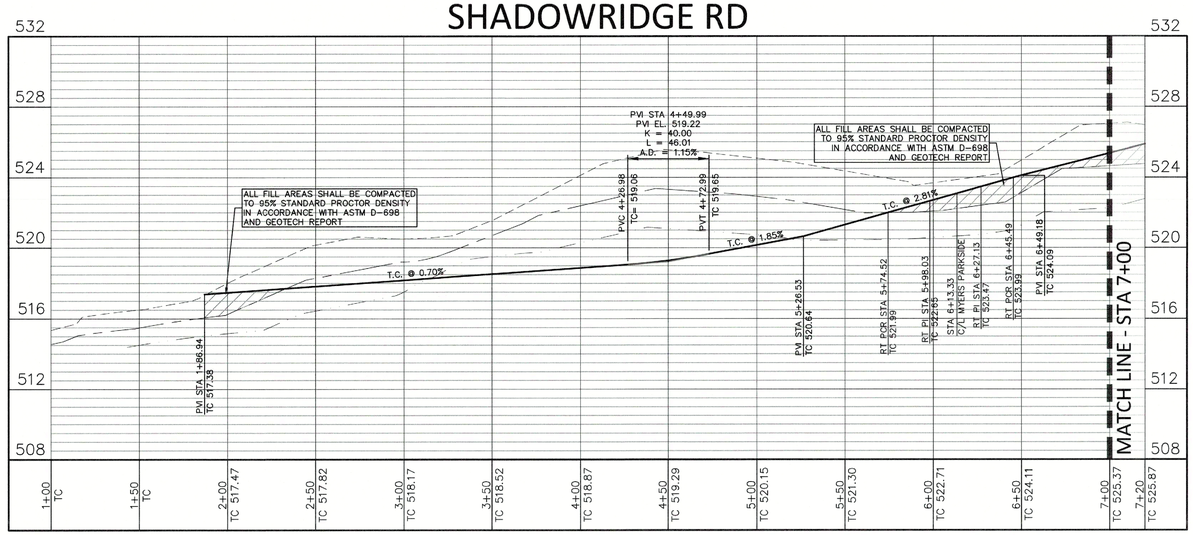
PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

SHADOWRIDGE CUL-DE-SAC



SHADOWRIDGE RD



BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.65' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE NORTHEAST SIDE OF MIMS ROAD AT THE SOUTHERLY END OF A CONCRETE HEADWALL AT THE INTERSECTION OF THE NORTHEAST LINE OF MIMS ROAD WITH THE SOUTHEAST LINE OF I-30.
ELEVATION = PLAN 565.90' FIELD 566.02'

RECORD DRAWING

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NORTH

40 20 0 40

SCALE 1" = 40'

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - SHADOW RIDGE ROAD - SHEET 1 OF 2

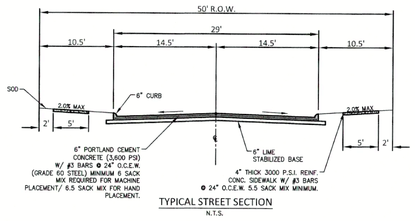
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

SCALE:
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1" = 4' (V)
One Inch
JVC No 502

12

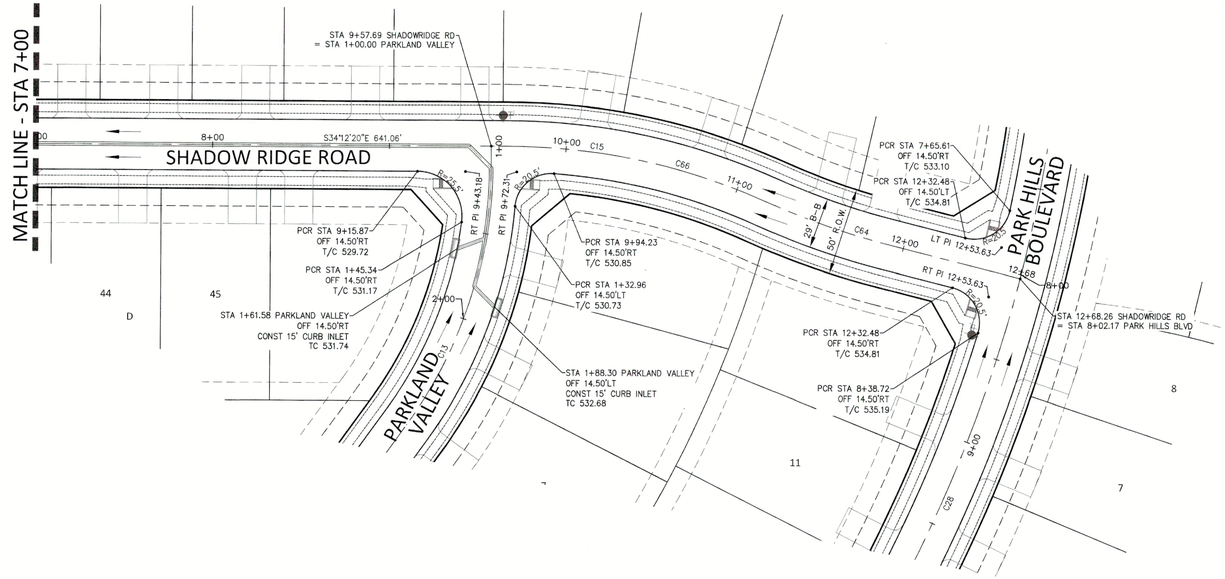
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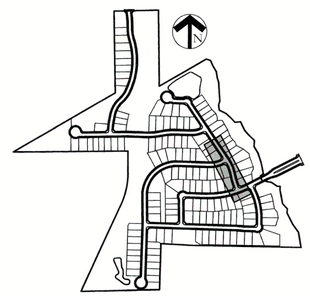
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT
NOTES ON COVER SHEET.



TYPICAL STREET SECTION
N.T.S.

Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C15	24°03'27"	355.00	149.06	S22° 10' 36.44"E	147.97
C64	9°52'27"	420.00	72.38	S15° 05' 06.39"E	72.29
C66	24°03'27"	355.00	149.06	S22° 10' 36.44"E	147.97





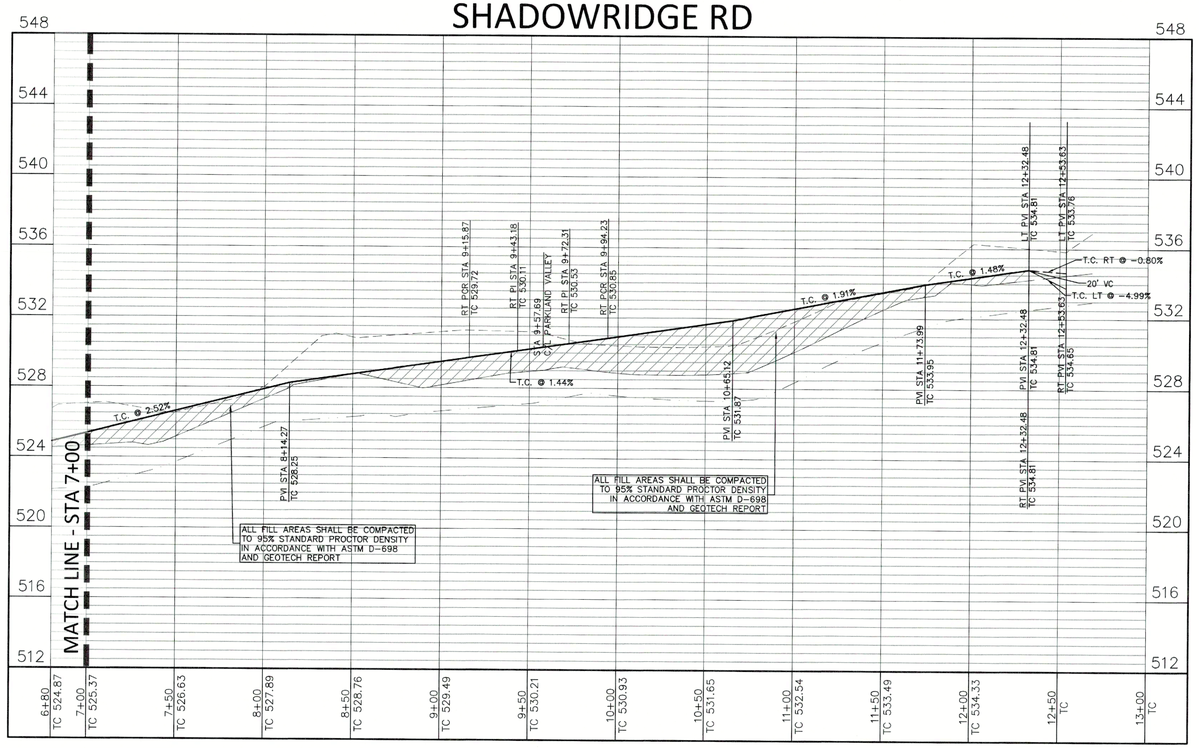
PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
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SHADOWRIDGE RD



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ELEVATION = PLAN 565.98' FIELD 566.02'

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NORTH
40 20 0 40
SCALE 1" = 40'

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - SHADOW RIDGE ROAD - SHEET 2 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

SCALE:
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1" = 4' (V)
One Inch
JVC No 502

13

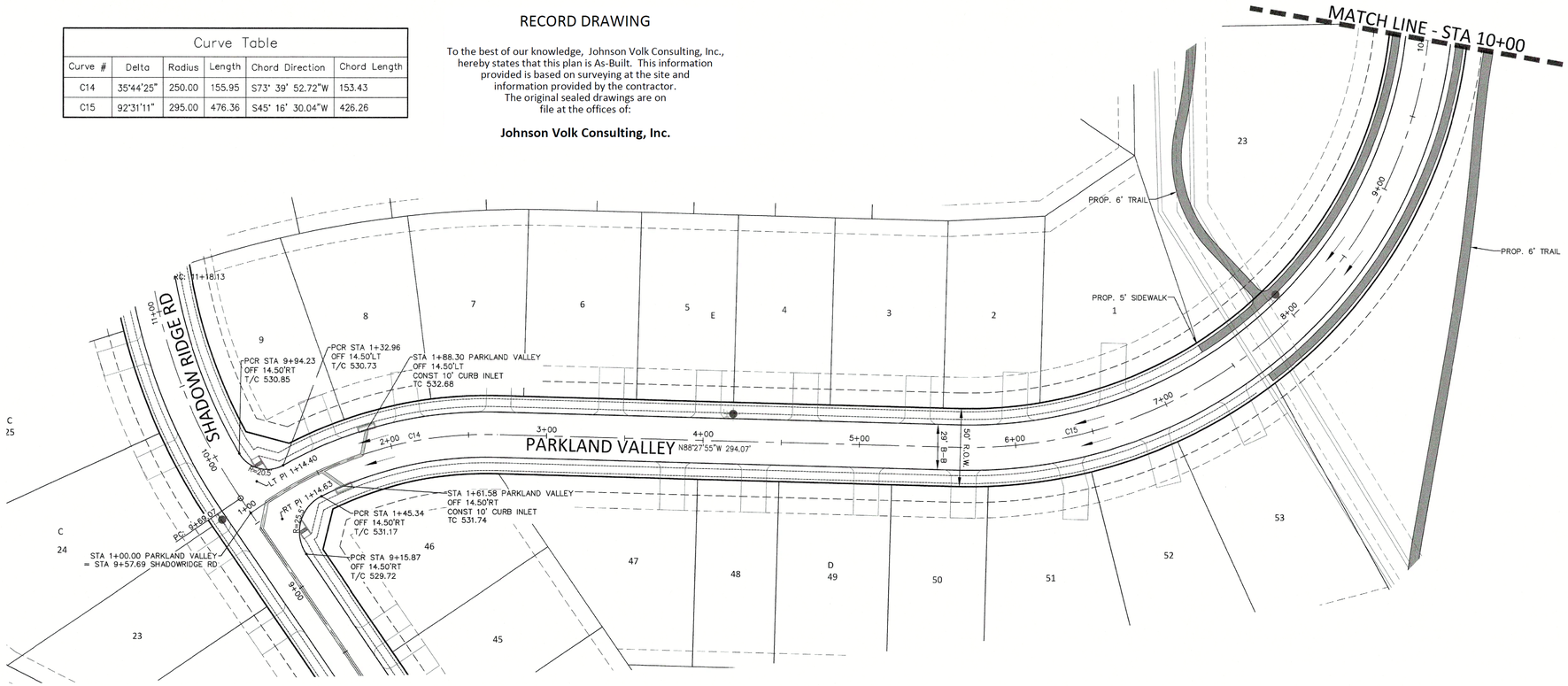
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Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C14	35°44'25"	250.00	155.95	S73° 39' 52.72"W	153.43
C15	92°31'11"	295.00	476.36	S45° 16' 30.04"W	426.26

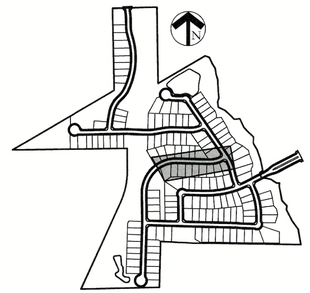
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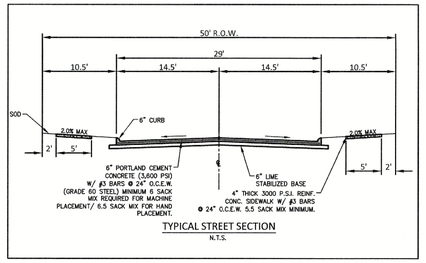
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.



KEY MAP

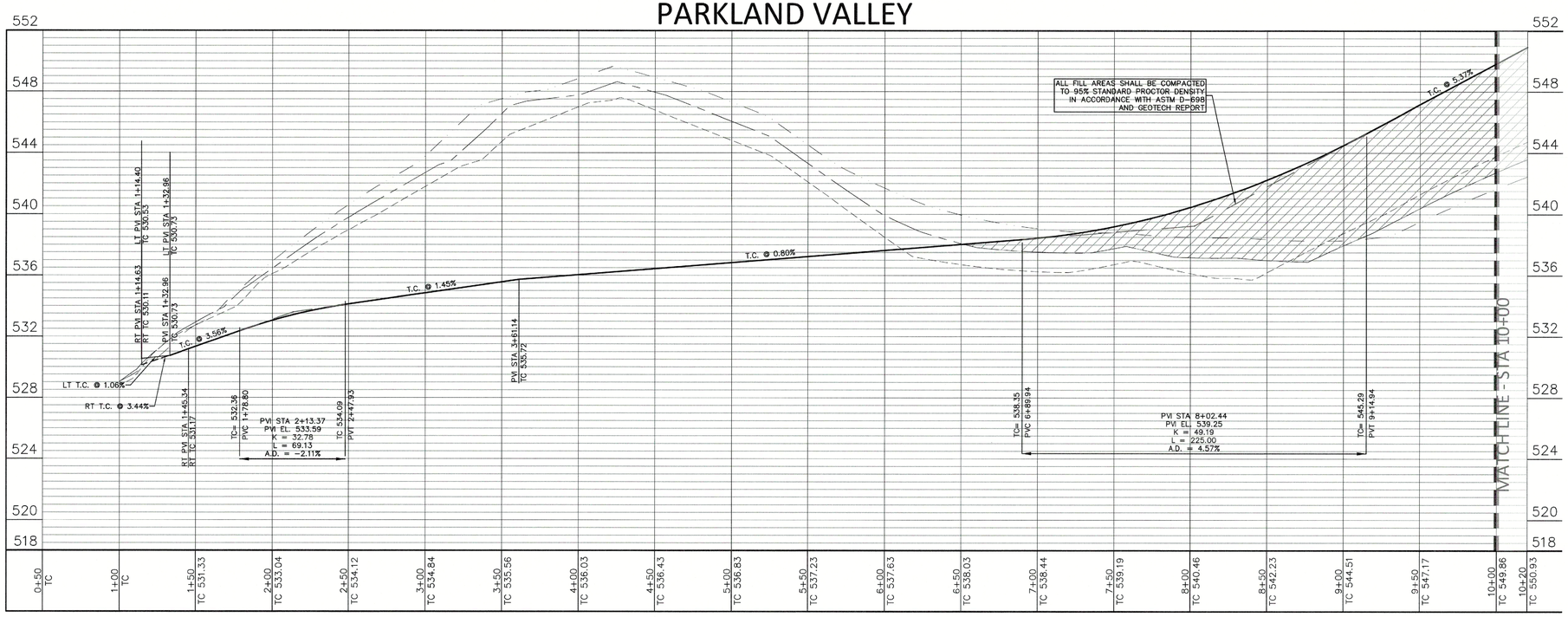
PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT



TYPICAL STREET SECTION
N.T.S.

PARKLAND VALLEY



PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

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NORTH

40 20 0 40

SCALE 1" = 40'

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TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

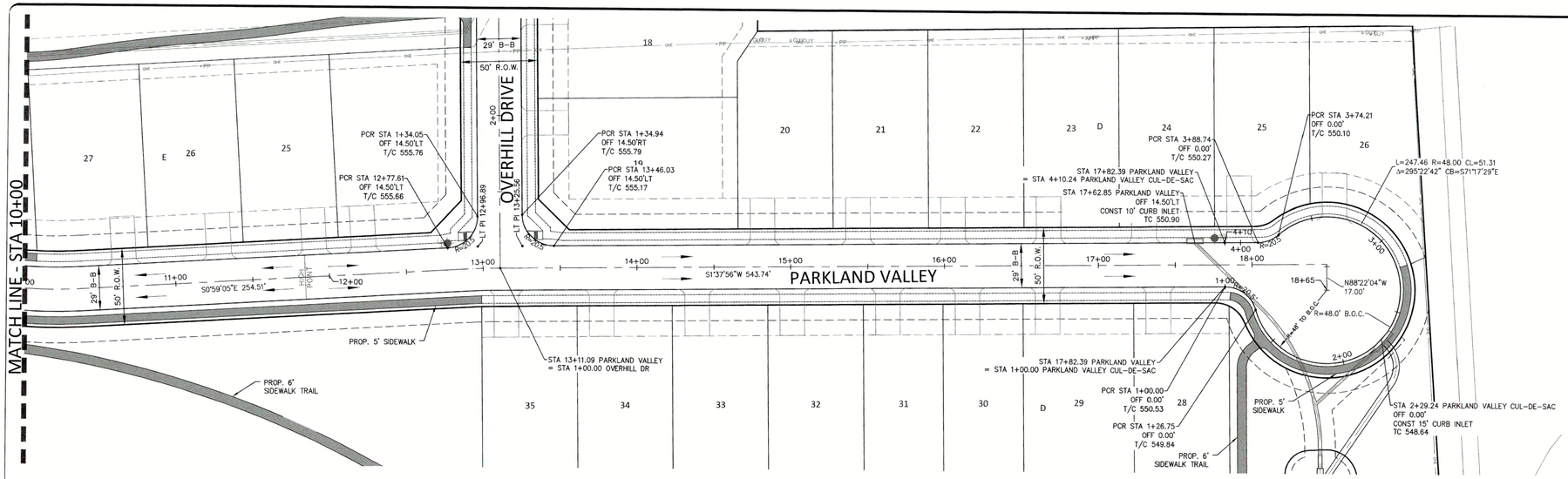
PAVING PLAN & PROFILE - PARKLAND VALLEY - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

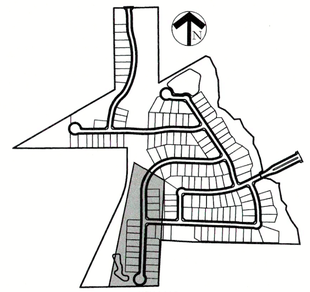
SCALE:
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One Inch
JVC No 502

14

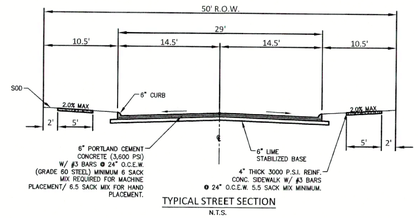
J:\Civil 3d projects\ dwgs \ michael joyce properties \ mj502 _ park hills \ jvc plans \ dwg \ sheets \ construction plans \ paving plan & profile - east - west.dwg



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

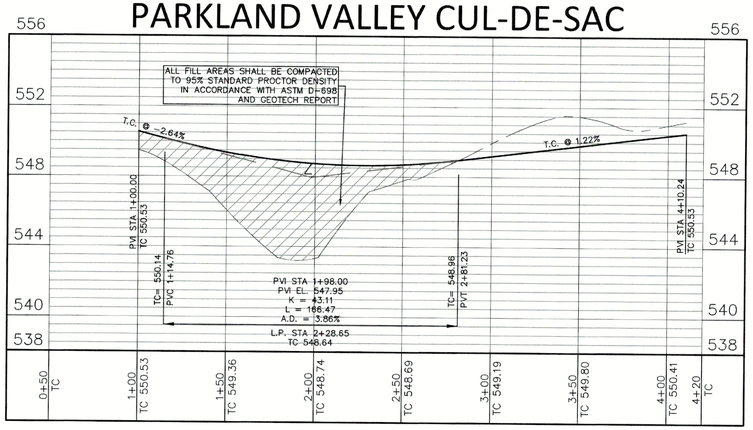


KEY MAP



TYPICAL STREET SECTION
N.T.S.

PARKLAND VALLEY CUL-DE-SAC



PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

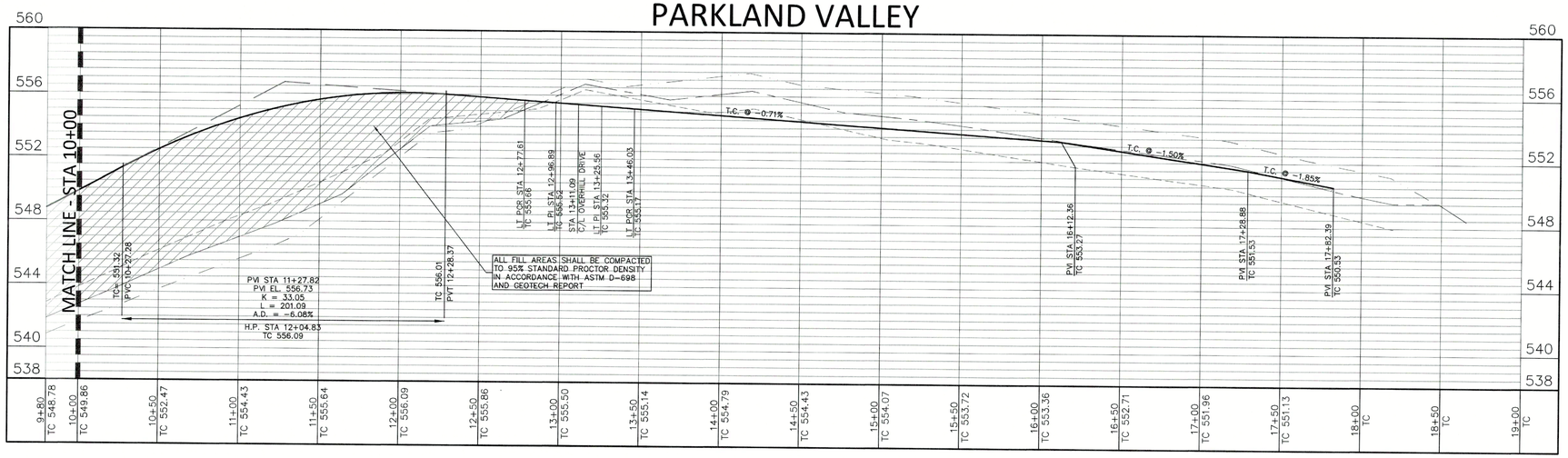
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PARKLAND VALLEY



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NORTH
40 20 0 40
SCALE 1" = 40'

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE -
PARKLAND VALLEY - SHEET 2 OF 2

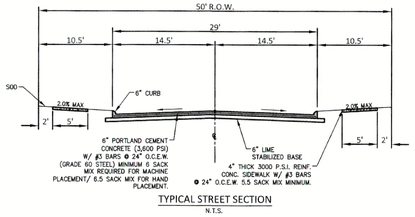
STATE OF TEXAS
THOMAS K. DAYTON
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LICENSED
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05/22/2023

SCALE:
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One Inch
JVC No 502

15

i:\civil 3d projects\mjr - michael joyce properties\ mjr502 - park hills\ cep plans\dwg\sheets\construction plans\paving plan & profile - north.dwg

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER PAGE.

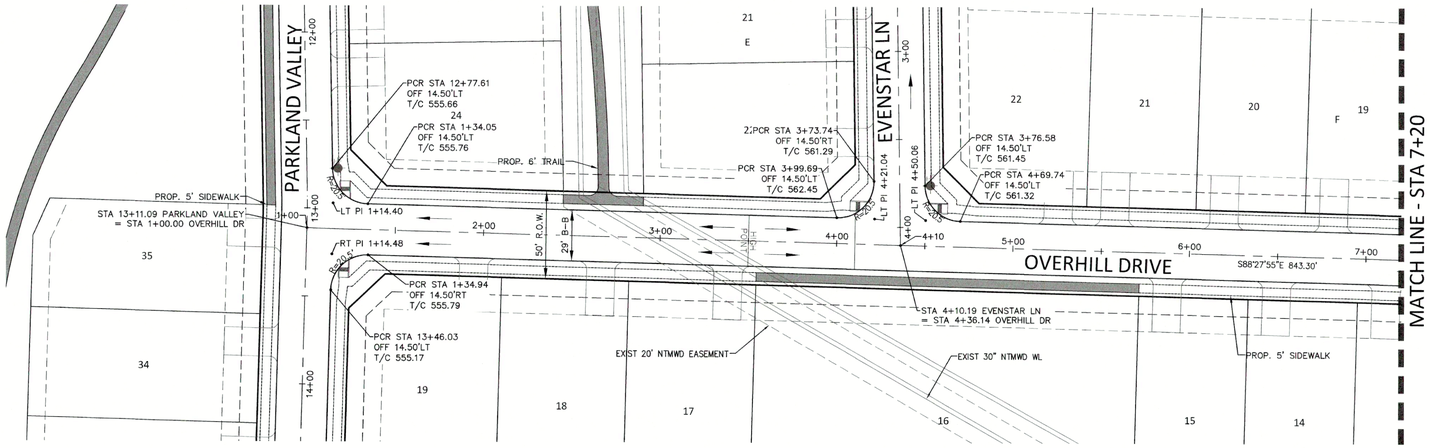


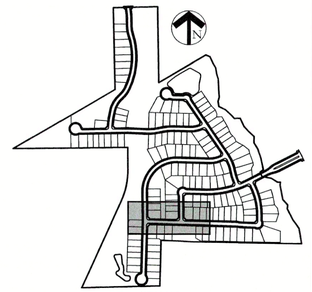
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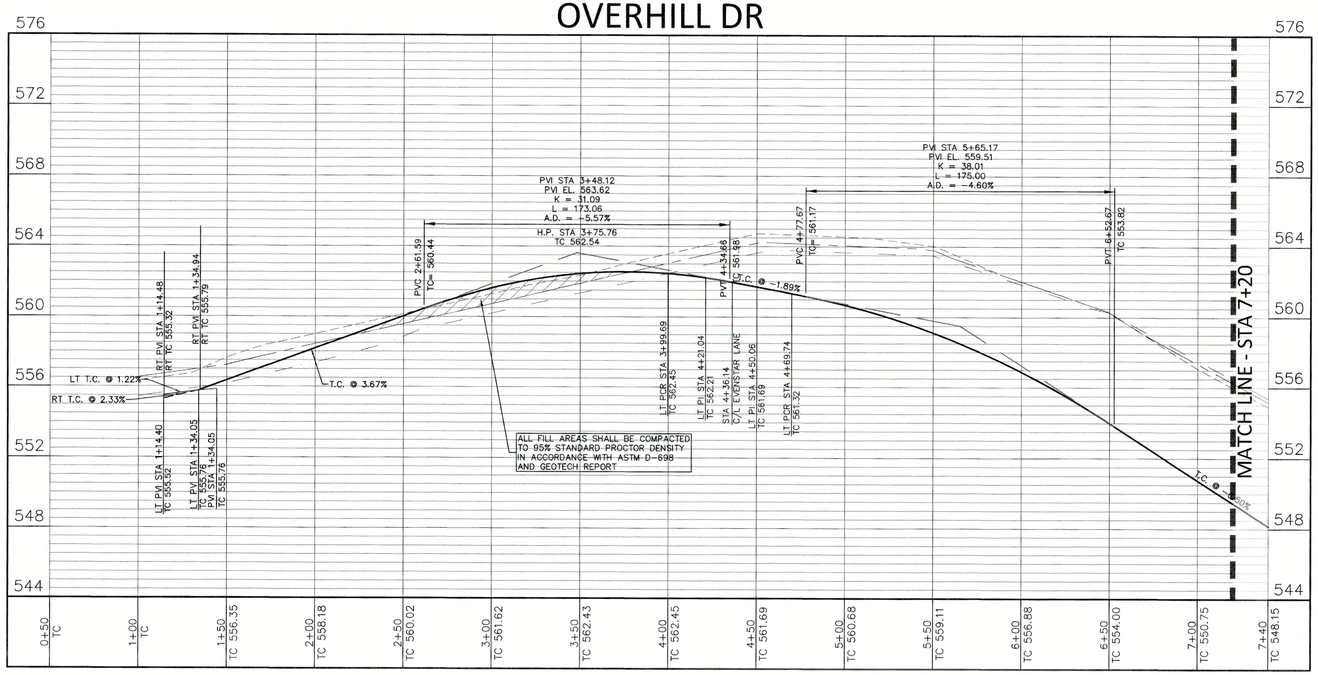
KEY MAP

PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
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NORTH
40 20 0 40
SCALE 1" = 40'

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - OVERHILL DRIVE - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

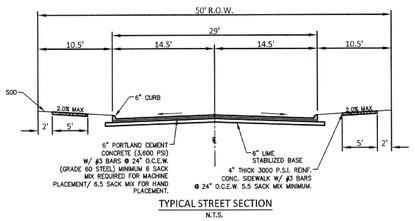
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1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

16

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REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER PAGE.



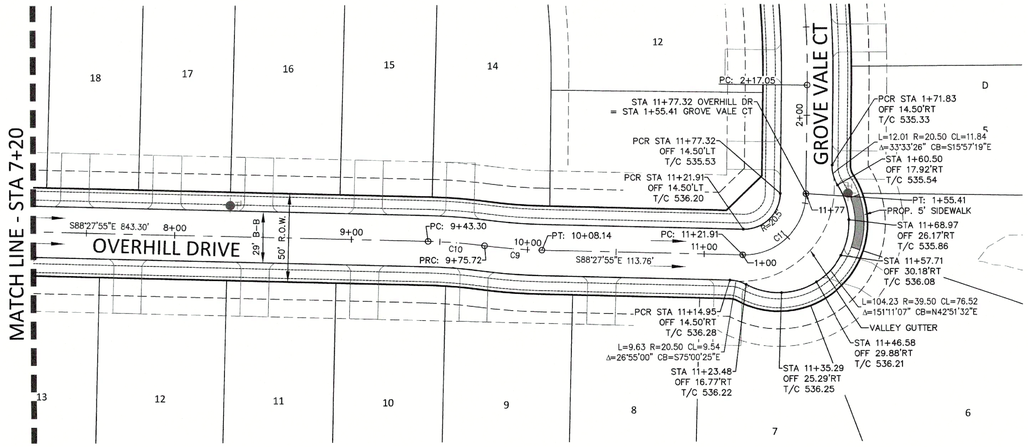
TYPICAL STREET SECTION
N.T.S.

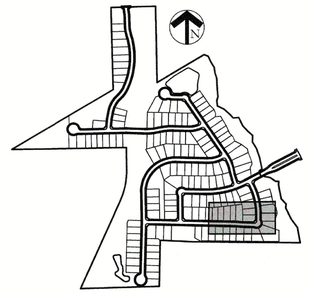
Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C9	6°11'30"	300.00	32.42	S85° 22' 09.70"E	32.40
C10	6°11'30"	300.00	32.42	S85° 22' 09.70"E	32.40
C11	90°42'41"	35.00	55.41	N46° 10' 44.87"E	49.80

RECORD DRAWING

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KEY MAP

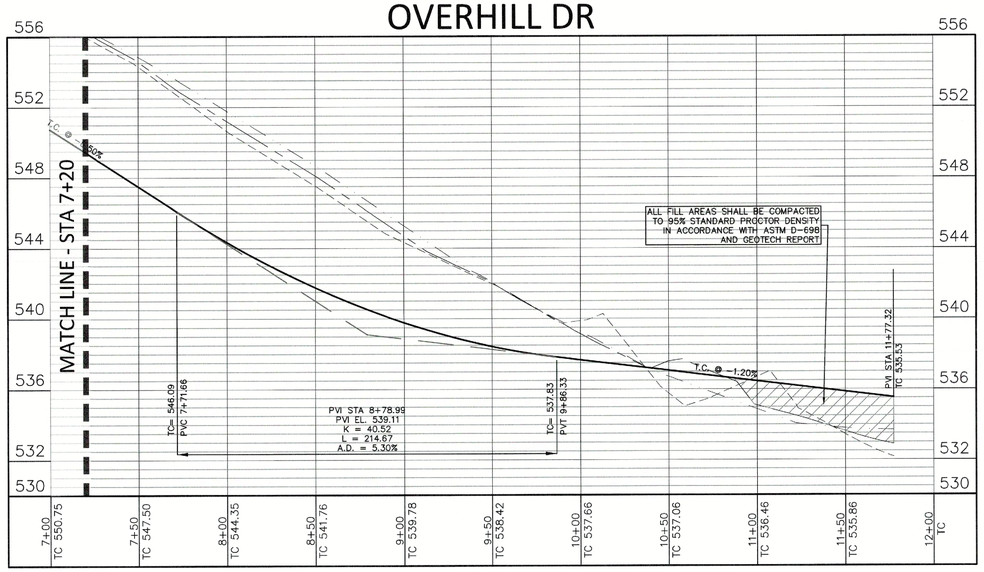
PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

OVERHILL DR



"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.61' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
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ELEVATION = PLAN 565.98' FIELD 566.02'

CAUTION!!!
EXISTING UTILITIES

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE -
OVERHILL DRIVE - SHEET 2 OF 2

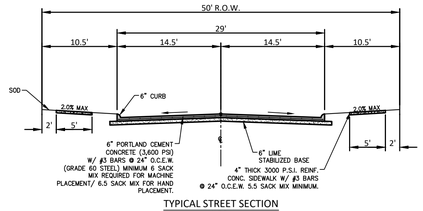
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/22/2023

SCALE:
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One Inch

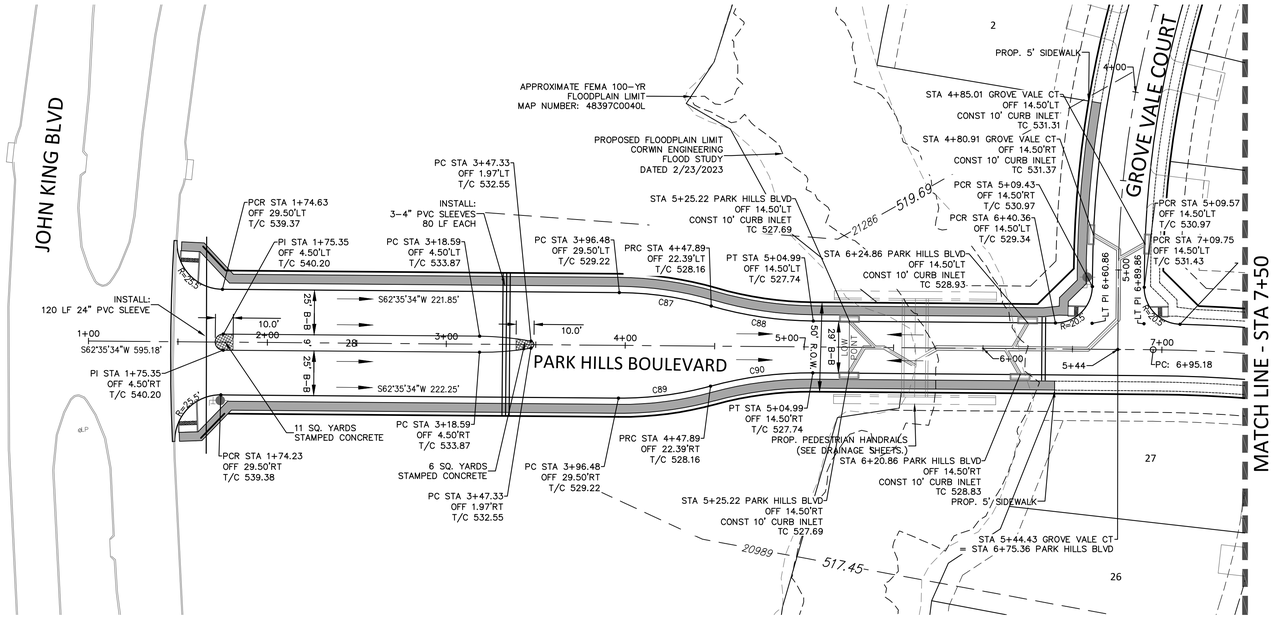
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17

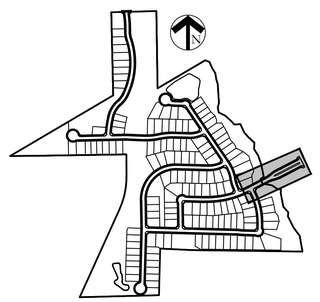
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TYPICAL STREET SECTION
N.T.S.



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

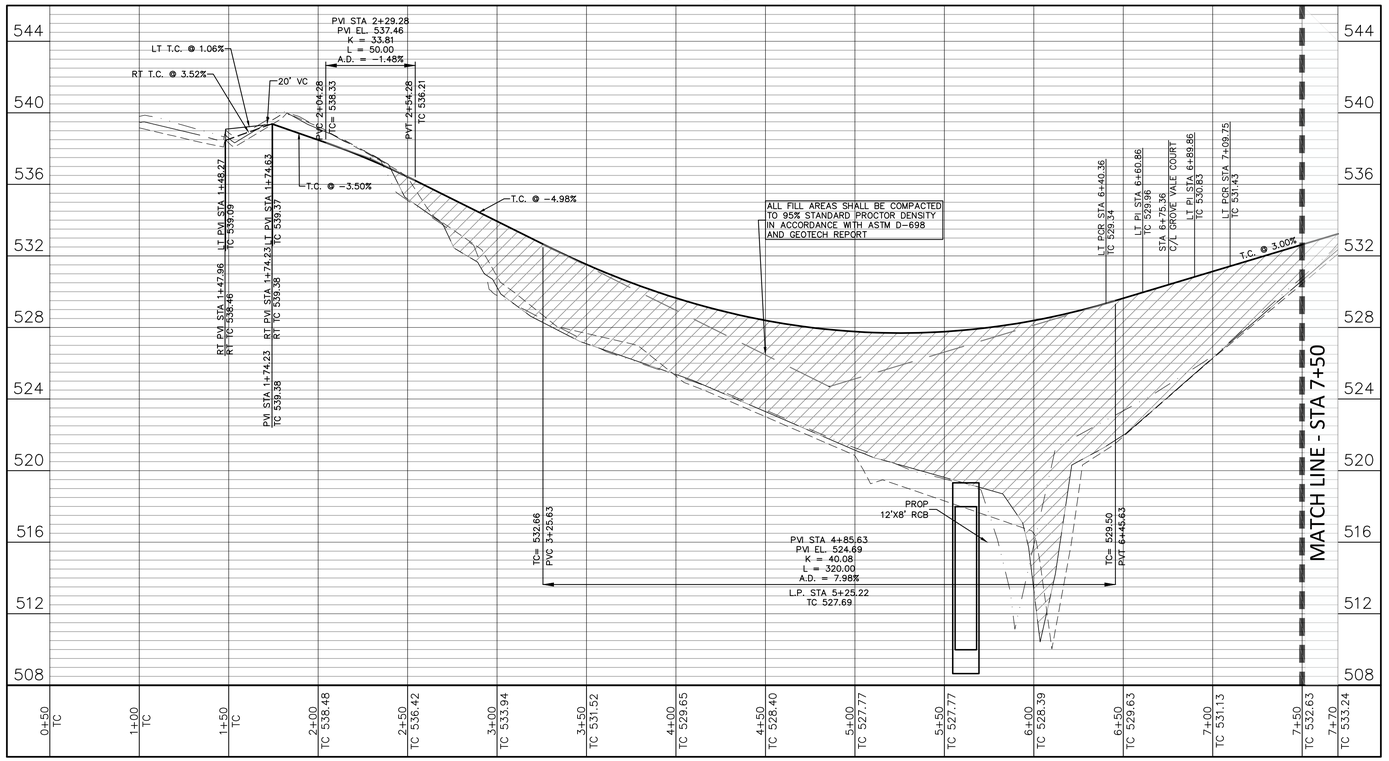


KEY MAP

PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PARK HILLS BLVD



PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
- N.G. AT LEFT R.O.W.

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C89	52.06	189.50	15.74	S54° 43' 21"W	51.90
C90	57.83	210.50	15.74	N54° 43' 21"E	57.65
C88	57.83	210.50	15.74	S70° 27' 47"W	57.65
C87	52.06	189.50	15.74	N70° 27' 47"E	51.90

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NORTH
40 20 0 40
SCALE 1" = 40'

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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE - PARK HILLS BOULEVARD - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
09/05/2023

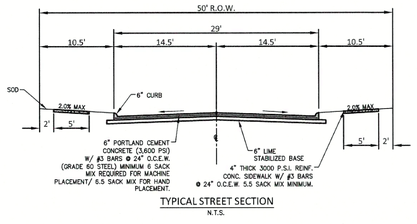
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One Inch

JVC No 502

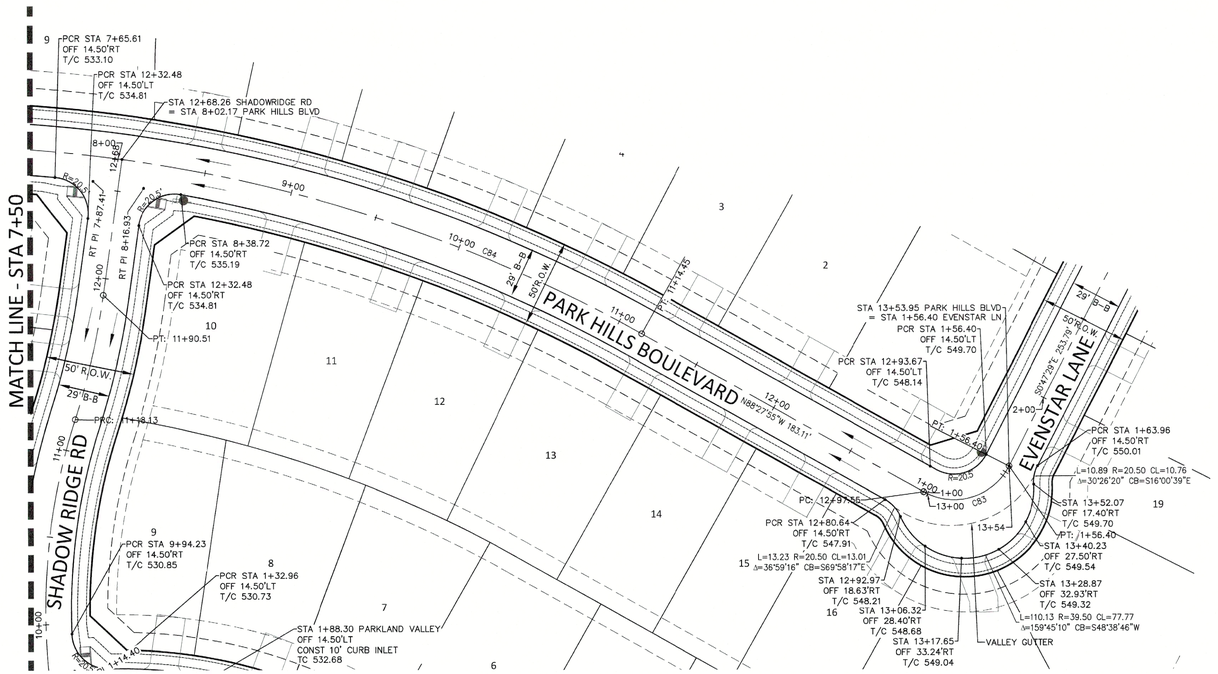
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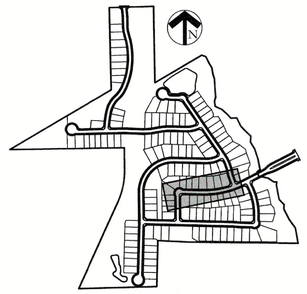
Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C83	92°19'34"	35.00	56.40	S45° 22' 18.28"W	50.49
C84	28°56'31"	830.00	419.26	S77° 03' 49.60"W	414.82



TYPICAL STREET SECTION
N.T.S.



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

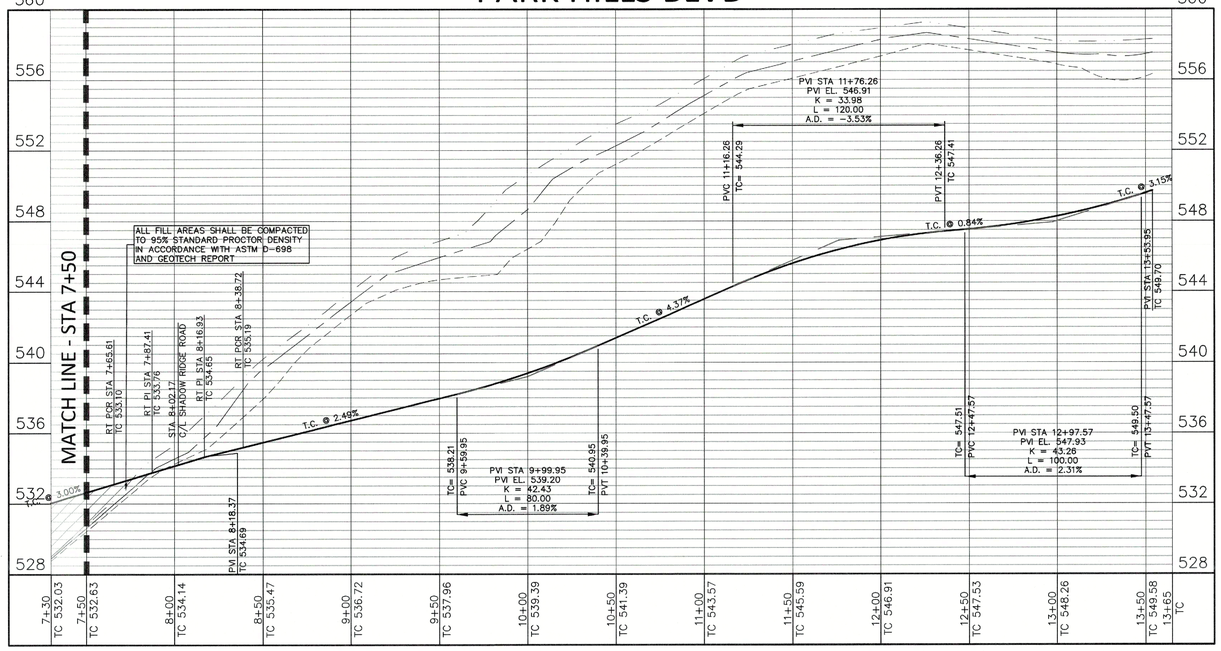


KEY MAP

PLAN LEGEND

- SIDEWALK BY DEVELOPER
- SIDEWALK BY BUILDER
- BARRIER FREE RAMP
- PROP. FIRE HYDRANT

PARK HILLS BLVD



PROFILE LEGEND

- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
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NORTH
40 20 0 40
SCALE 1" = 40'

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

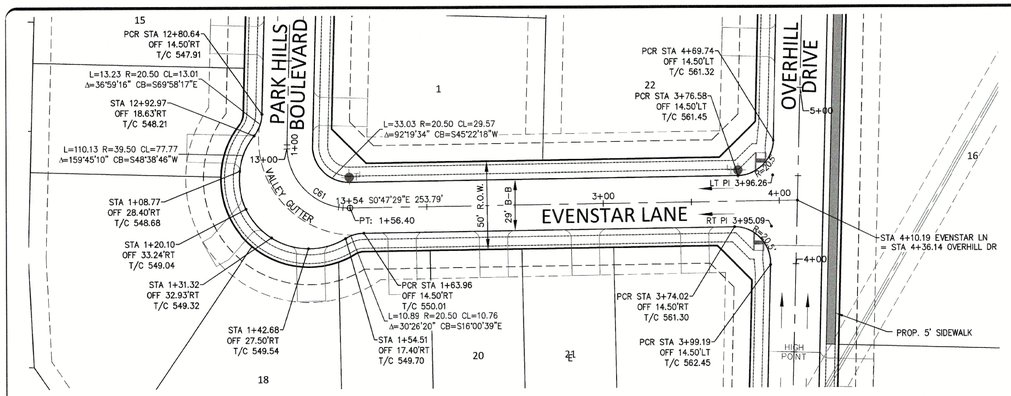
PAVING PLAN & PROFILE - PARK HILLS BOULEVARD - SHEET 2 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

SCALE:
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1" = 4' (V)
One Inch
JVC No 502

19

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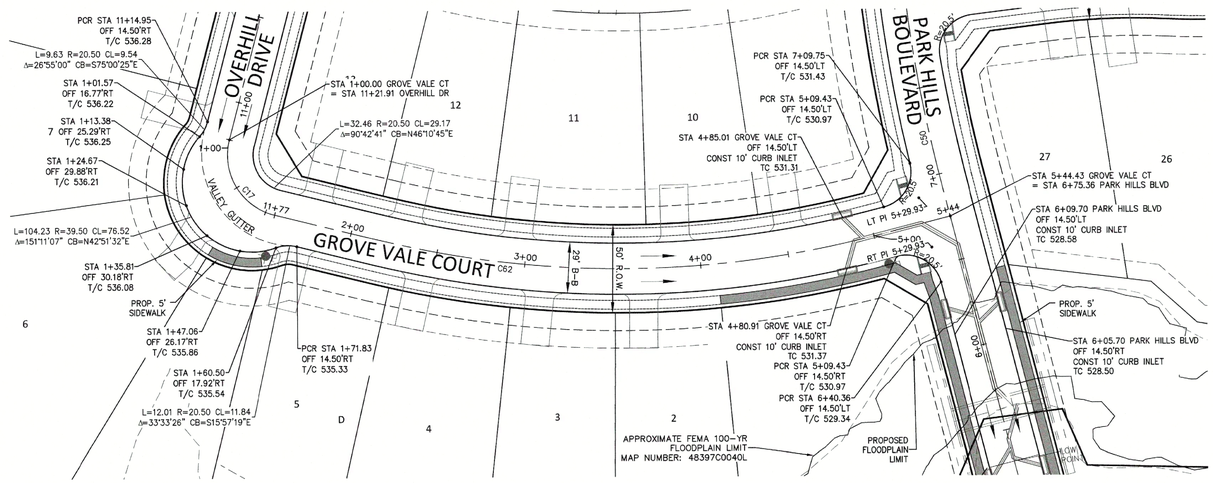


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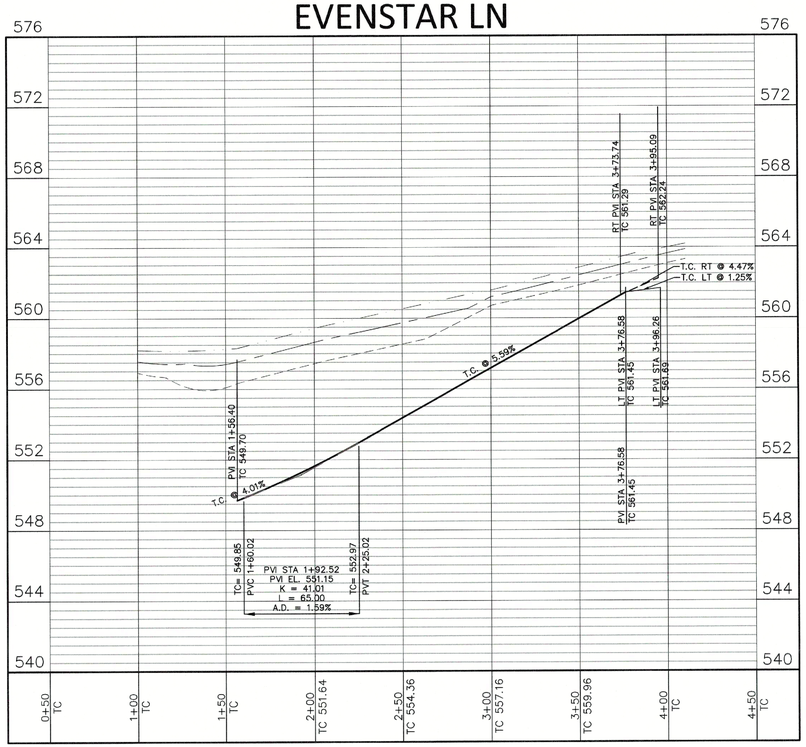
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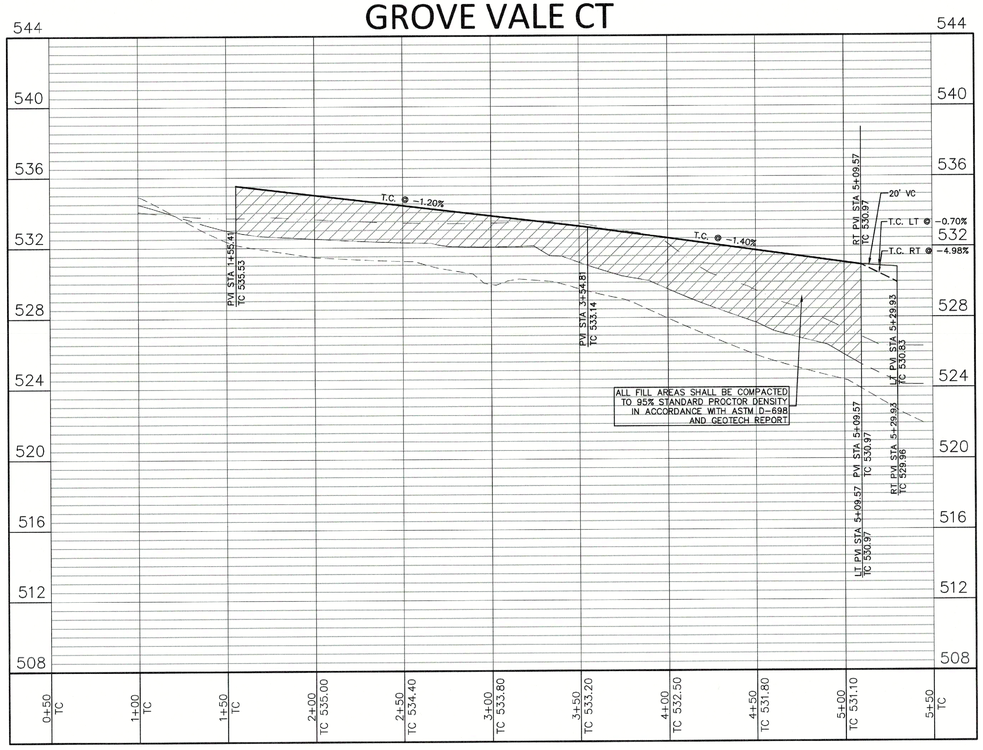


Curve Table					
Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C62	28°13'51"	575.00	283.31	N13° 17' 30.83"W	280.46

EVENSTAR LN



GROVE VALE CT



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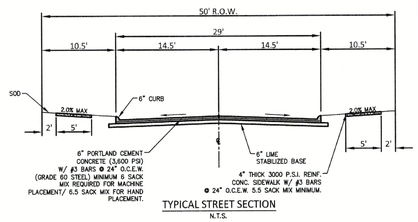


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- PROP. FIRE HYDRANT

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- TOP OF CURB PROFILE
- N.G. AT CENTERLINE
- N.G. AT RIGHT R.O.W.
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TYPICAL STREET SECTION
N.T.S.

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CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING PLAN & PROFILE -
EVENSTAR LN & GROVE VALE CT

STATE OF TEXAS
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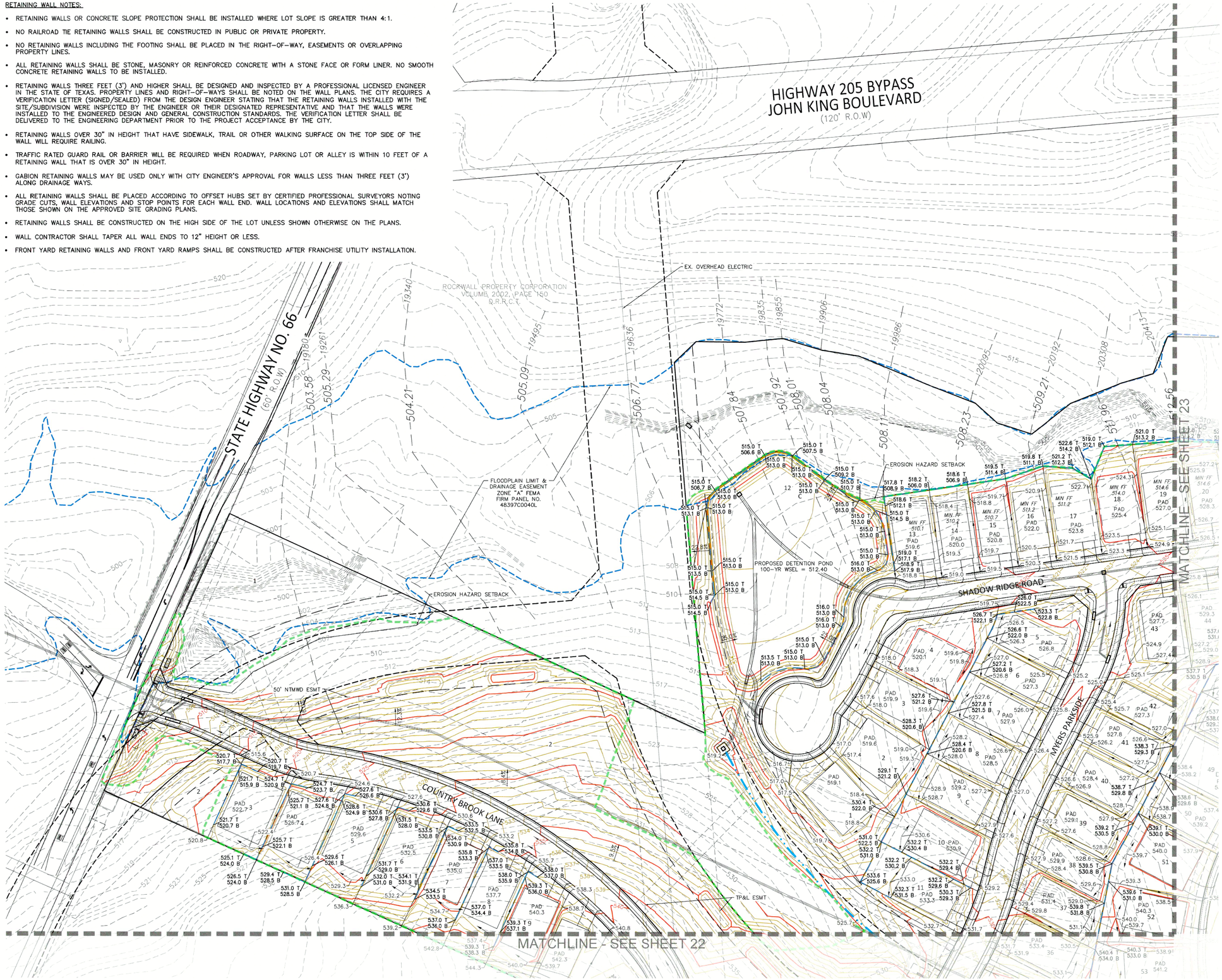
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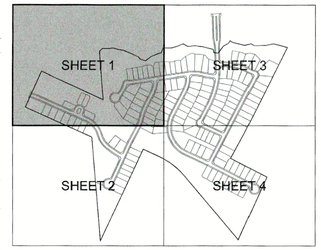
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J:\civil 3d projects \mp - michael joyce properties \mp502 - park hills \jvc plans \dwg \sheet \construction plans \paving plan & profile - north-south.dwg

RETAINING WALL NOTES:

- RETAINING WALLS OR CONCRETE SLOPE PROTECTION SHALL BE INSTALLED WHERE LOT SLOPE IS GREATER THAN 4:1.
- NO RAILROAD TIE RETAINING WALLS SHALL BE CONSTRUCTED IN PUBLIC OR PRIVATE PROPERTY.
- NO RETAINING WALLS INCLUDING THE FOOTING SHALL BE PLACED IN THE RIGHT-OF-WAY, EASEMENTS OR OVERLAPPING PROPERTY LINES.
- ALL RETAINING WALLS SHALL BE STONE, MASONRY OR REINFORCED CONCRETE WITH A STONE FACE OR FORM LINER. NO SMOOTH CONCRETE RETAINING WALLS TO BE INSTALLED.
- RETAINING WALLS THREE FEET (3') AND HIGHER SHALL BE DESIGNED AND INSPECTED BY A PROFESSIONAL LICENSED ENGINEER IN THE STATE OF TEXAS. PROPERTY LINES AND RIGHT-OF-WAYS SHALL BE NOTED ON THE WALL PLANS. THE CITY REQUIRES A VERIFICATION LETTER (SIGNED/SEALED) FROM THE DESIGN ENGINEER STATING THAT THE RETAINING WALLS INSTALLED WITH THE SITE/SUBDIVISION WERE INSPECTED BY THE ENGINEER OR THEIR DESIGNATED REPRESENTATIVE AND THAT THE WALLS WERE INSTALLED TO THE ENGINEERED DESIGN AND GENERAL CONSTRUCTION STANDARDS. THE VERIFICATION LETTER SHALL BE DELIVERED TO THE ENGINEERING DEPARTMENT PRIOR TO THE PROJECT ACCEPTANCE BY THE CITY.
- RETAINING WALLS OVER 30" IN HEIGHT THAT HAVE SIDEWALK, TRAIL OR OTHER WALKING SURFACE ON THE TOP SIDE OF THE WALL WILL REQUIRE RAILING.
- TRAFFIC RATED GUARD RAIL OR BARRIER WILL BE REQUIRED WHEN ROADWAY, PARKING LOT OR ALLEY IS WITHIN 10 FEET OF A RETAINING WALL THAT IS OVER 30" IN HEIGHT.
- GABION RETAINING WALLS MAY BE USED ONLY WITH CITY ENGINEER'S APPROVAL FOR WALLS LESS THAN THREE FEET (3') ALONG DRAINAGE WAYS.
- ALL RETAINING WALLS SHALL BE PLACED ACCORDING TO OFFSET HUBS SET BY CERTIFIED PROFESSIONAL SURVEYORS NOTING GRADE CUTS, WALL ELEVATIONS AND STOP POINTS FOR EACH WALL END. WALL LOCATIONS AND ELEVATIONS SHALL MATCH THOSE SHOWN ON THE APPROVED SITE GRADING PLANS.
- RETAINING WALLS SHALL BE CONSTRUCTED ON THE HIGH SIDE OF THE LOT UNLESS SHOWN OTHERWISE ON THE PLANS.
- WALL CONTRACTOR SHALL TAPER ALL WALL ENDS TO 12" HEIGHT OR LESS.
- FRONT YARD RETAINING WALLS AND FRONT YARD RAMPS SHALL BE CONSTRUCTED AFTER FRANCHISE UTILITY INSTALLATION.





NORTH

60 30 0 60

SCALE 1" = 60'

LEGEND

- PROPOSED RETAINING WALL
- LIMITS OF GRADING
- FLOW ARROW
- 734.0 SPOT ELEVATION
- 750.1 T TOP OF WALL
- 747.7 B BOTTOM OF WALL
- 727 EXISTING CONTOURS
- 727 PROPOSED CONTOURS
- APPROXIMATE EXISTING LOCATION OF 1% ANNUAL CHANCE FLOOD
- SWALE FLOWLINE

RETAINING WALLS ALONG FLOODPLAIN MUST BE DESIGNED FOR INUNDATION AND EROSION.

RECORD DRAWING

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REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

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CAUTION!!!

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

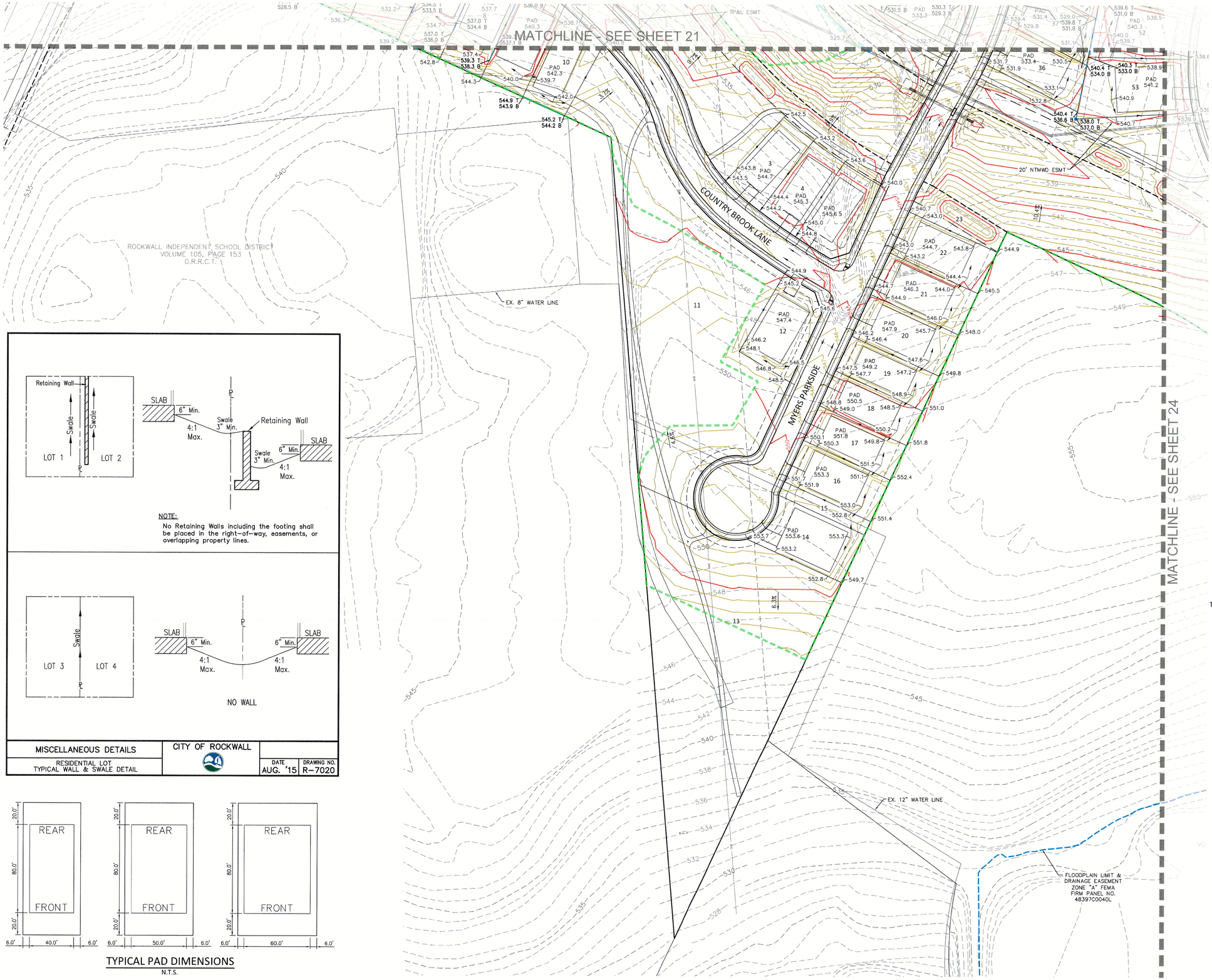
GRADING PLAN - SHEET 1 OF 4

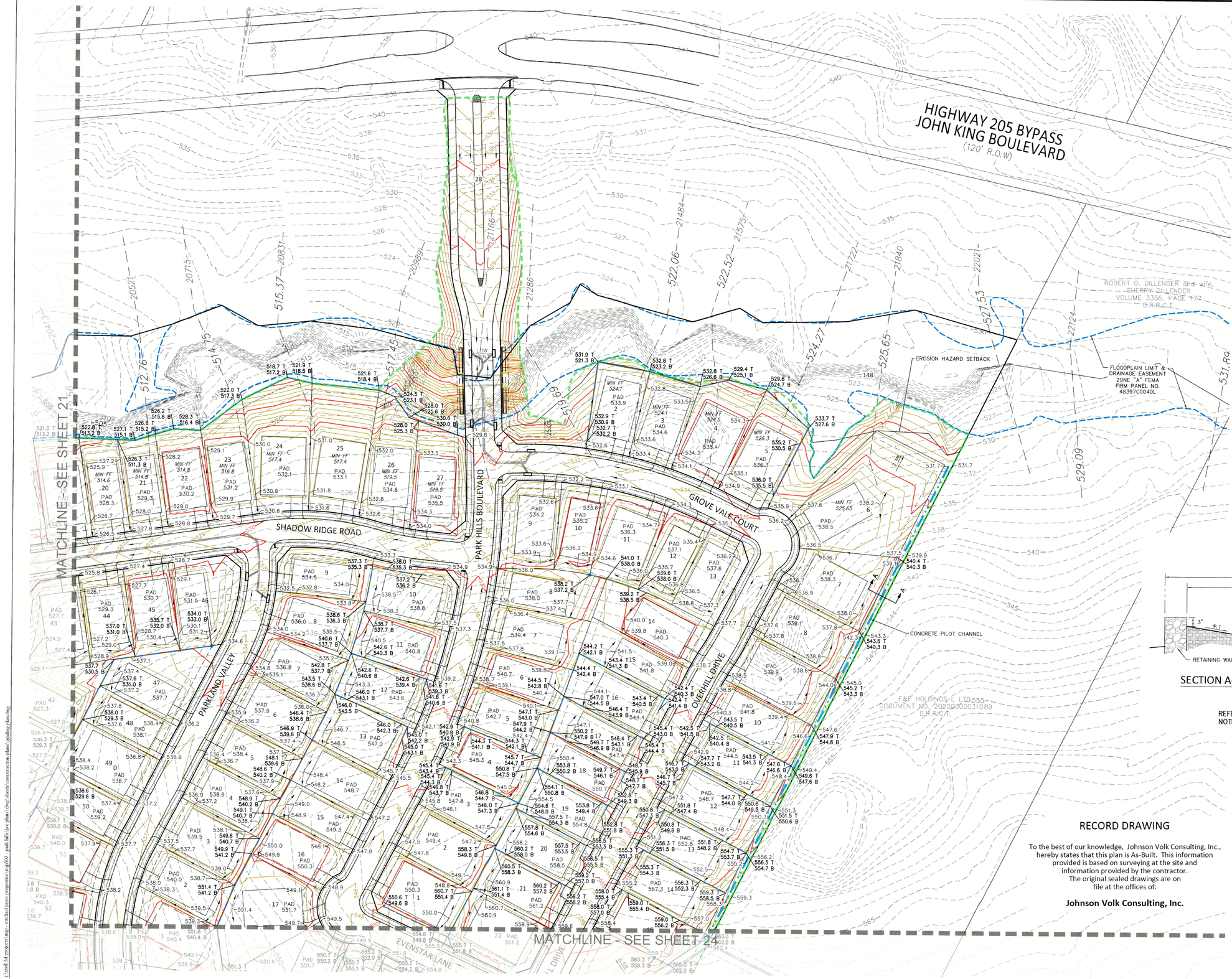
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
06/27/2023

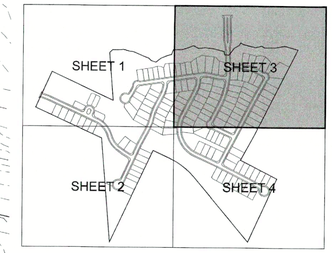
JVC No 502

21

J:\civil 3d projects\mjp - medical proce properties\mjp502 - park hills\jvc plans\dwg\sheets\construction plans\grading plan.dwg


MATCHLINE - SEE SHEET 21
MATCHLINE - SEE SHEET 24
COUNTRY BROOK LANE
MYERS PARKSIDE
ROCKWALL INDEPENDENT SCHOOL DISTRICT
VOLUME 105, PAGE 153
D.R.R.C.T.
EX. 8" WATER LINE
EX. 12" WATER LINE
TP&L ESMT
20' NTMWD ESMT
FLOODPLAIN LIMIT & DRAINAGE EASEMENT ZONE "A" FEMA FIRM PANEL NO. 48397C0040L
PAD 542.3
PAD 544.7
PAD 546.3
PAD 545.5
PAD 547.4
PAD 547.9
PAD 549.2
PAD 550.5
PAD 551.8
PAD 553.3
PAD 553.6
PAD 533.4
PAD 531.4
PAD 540.3
PAD 541.2
PAD 533.3
PAD 529.4
PAD 529.8
PAD 531.8
PAD 538.5
PAD 540.0
PAD 539.7
PAD 539.8
PAD 531.0
PAD 538.9
PAD 540.4
PAD 538.0
PAD 540.7
PAD 543.0
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PAD 547.6
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PAD 551.0
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PAD 539.7
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PAD 537.4
PAD 539.3
PAD 538.3
PAD 542.8
PAD 544.3
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PAD 543.9
PAD 545.2
PAD 544.2
PAD 542.5
PAD 543.2
PAD 543.6
PAD 540





NORTH

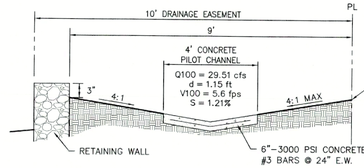
60 30 0 60

SCALE 1" = 60'

LEGEND

- PROPOSED RETAINING WALL
- LIMITS OF GRADING
- FLOW ARROW
- 734.0 SPOT ELEVATION
- 750.1 T TOP OF WALL
- 747.7 B BOTTOM OF WALL
- 727 EXISTING CONTOURS
- 727 PROPOSED CONTOURS
- APPROXIMATE EXISTING LOCATION OF 1% ANNUAL CHANCE FLOOD
- SWALE FLOWLINE

RETAINING WALLS ALONG FLOODPLAIN MUST BE DESIGNED FOR INUNDATION AND EROSION.



SECTION A-A: DRAINAGE CHANNEL

N.T.S

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

GRADING PLAN - SHEET 3 OF 4

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
06/27/2023

JVC No 502

23

F:\civil 3d projects\map - michael joyce properties\mp502 - park hills\res plans\dwg\sheets\construction plans\grading plan.dwg

MATCHLINE - SEE SHEET 23

MATCHLINE - SEE SHEET 22

EVENSTAR LANE

OVERHILL DRIVE

PARKLAND VALLEY

D. RICHARD DEVENNEY AND WIFE, DIANA DEVENNEY VOLUME 165, PAGE 116 D.R.R.C.T.

20' NTMWD ESMT

EX. OVERHEAD ELECTRIC

PROPOSED DETENTION POND
100-YR WSEL = 536.99

EROSION HAZARD SETBACK

FLOODPLAIN LIMIT & DRAINAGE EASEMENT ZONE "A" FEMA FIRM PANEL NO. 48397C0040L

CITY OF ROCKWALL VOLUME 2163, PAGE 96 D.R.R.C.T.

WASHINGTON STREET
(VARIABLE WIDTH R.O.W)

SHEET 1 | SHEET 3 | SHEET 2 | SHEET 4

NORTH

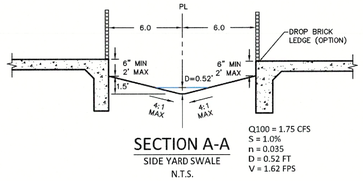
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SCALE 1" = 60'

LEGEND

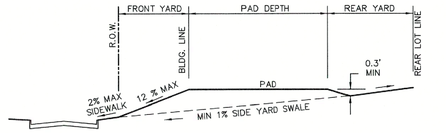
- PROPOSED RETAINING WALL
- LIMITS OF GRADING
- FLOW ARROW
- 734.0 SPOT ELEVATION
- 750.1 T TOP OF WALL
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- 727 EXISTING CONTOURS
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- APPROXIMATE EXISTING LOCATION OF 1% ANNUAL CHANCE FLOOD
- SWALE FLOWLINE

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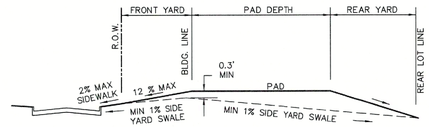


SECTION A-A
SIDE YARD SWALE
N.T.S.

Q100 = 1.75 CFS
S = 1.0%
n = 0.035
D = 0.52 FT
V = 1.62 FPS



TYPICAL PAD GRADING-AFTER HOME CONSTRUCTION
TYPE A LOT GRADING
N.T.S.



TYPICAL PAD GRADING-AFTER HOME CONSTRUCTION
TYPE B LOT GRADING
N.T.S.

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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

GRADING PLAN - SHEET 4 OF 4

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
06/27/2023

JVC No 502

J:\civil\3d projects\mjp - michael joyce properties\mjp502 - park hills\jvc plan\dwg\sheets\construction plans\grading plan.dwg

EXISTING DRAINAGE RUNOFF TABLE

Area ID	Total Drainage Area	Runoff Coefficient	C * A	Time of Concentration	5-Year		10-Year		25-Year		100-Year	
					Intensity	Runoff	Intensity	Runoff	Intensity	Runoff	Intensity	Runoff
	A	C	CA	T_C	I_5	Q_5	I_{10}	Q_{10}	I_{25}	Q_{25}	I_{100}	Q_{100}
	(ac)	(ac)		(min)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)
EX-1	10.90	0.35	3.82	20.00	4.90	18.69	5.90	22.51	6.60	25.18	8.30	31.66
EX-2	86.91	0.35	30.42	20.00	4.90	149.05	5.90	179.47	6.60	200.76	8.30	252.47
EX-3	3.21	0.35	1.12	20.00	4.90	5.51	5.90	6.63	6.60	7.42	8.30	9.33
EX-4	6.90	0.70	4.83	10.00	6.10	29.46	7.10	34.29	8.30	40.09	9.80	47.33

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LEGEND

- EX-1 22.64 AC — DRAINAGE AREA DESIGNATION / DRAINAGE AREA SIZE (AC.)
- PROPOSED DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW
- EXISTING STORM DRAIN LINE & INLET
- 635 — EXISTING CONTOUR

NORTH

150 75 0 150

SCALE 1" = 150'

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PARK HILLS
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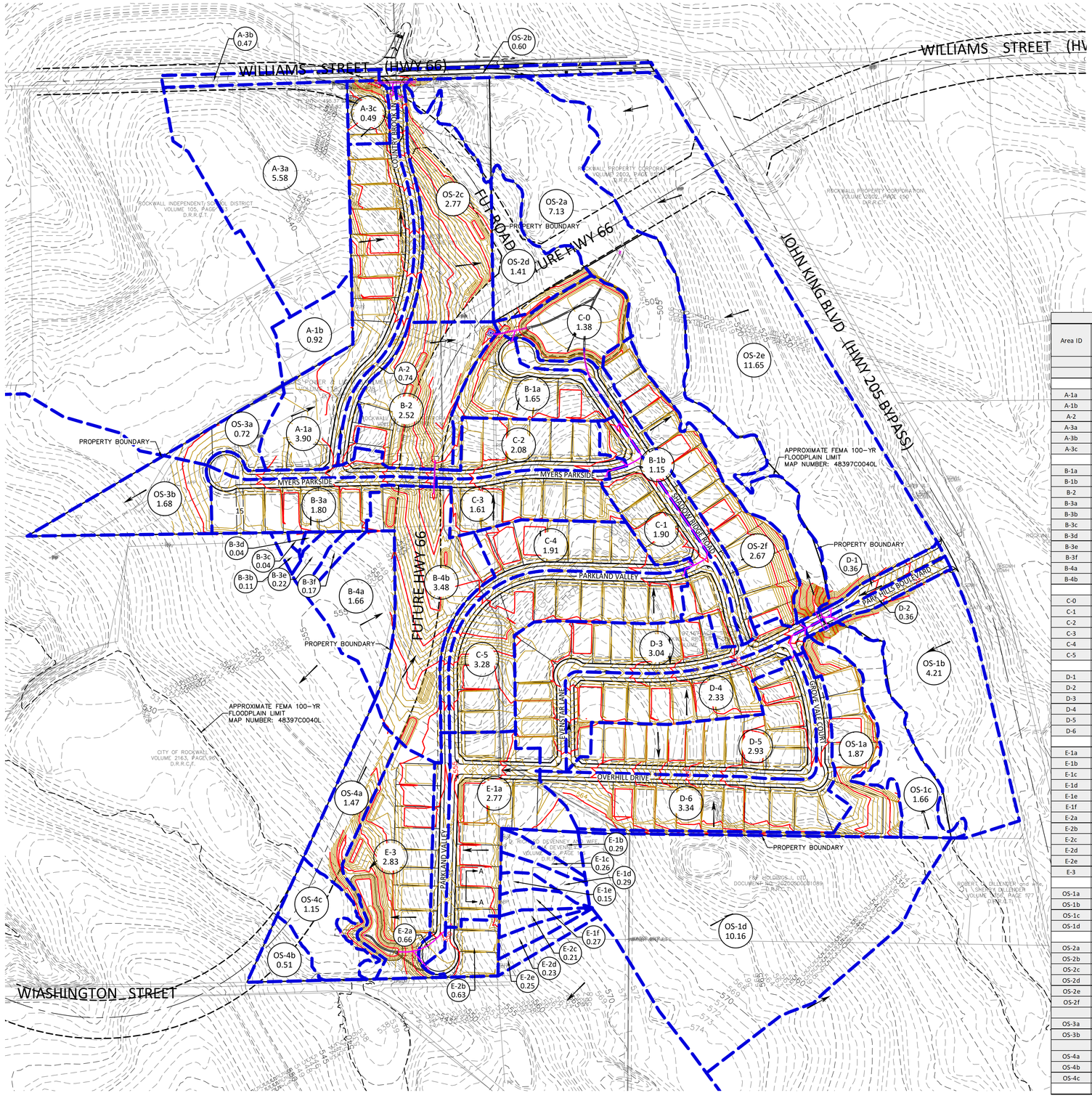
EXISTING DRAINAGE AREA MAP

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/15/2023

JVC No 502

25

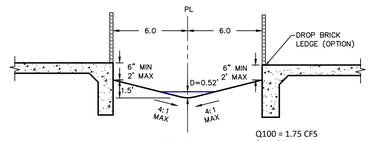
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SECTION A-A
SIDE YARD SWALE
N.T.S.

Q100 = 1.75 CFS
S = 1.0%
n = 0.035
D = 0.52 FT
V = 1.62 FPS

LEGEND

- C-1 22.64 AC — DRAINAGE AREA DESIGNATION / DRAINAGE AREA SIZE (AC.)
- PROPOSED DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW
- STORM DRAIN LINE & INLET
- 635 — EXISTING CONTOUR
- 635 — PROPOSED CONTOUR

NORTH

150 75 0 150

SCALE 1" = 150'

PROPOSED DRAINAGE RUNOFF TABLE

Area ID	Total Drainage Area	Runoff Coefficient	C * A	Time of Concentration	5-Year		10-Year		25-Year		100-Year		Drains To
					Intensity	Runoff	Intensity	Runoff	Intensity	Runoff	Intensity	Runoff	
	A	C	CA	T_C	I_5	Q_5	I_{10}	Q_{10}	I_{25}	Q_{25}	I_{100}	Q_{100}	
	(ac)	(ac)		(min)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	
A-1a	3.90	0.50	1.95	10.00	6.10	11.90	7.10	13.85	8.30	16.19	9.80	19.11	Country Brook Lane
A-1b	0.92	0.70	0.64	10.00	6.10	3.93	7.10	4.57	8.30	5.35	9.80	6.31	Country Brook Lane
A-2	0.74	0.50	0.37	10.00	6.10	2.26	7.10	2.63	8.30	3.07	9.80	3.63	Country Brook Lane
A-3a	5.58	0.70	3.91	10.00	6.10	23.83	7.10	27.73	8.30	32.42	9.80	38.28	Culvert A
A-3b	0.47	0.90	0.42	10.00	6.10	2.58	7.10	3.00	8.30	3.51	9.80	4.15	Culvert A
A-3c	0.49	0.50	0.25	10.00	6.10	1.49	7.10	1.74	8.30	2.03	9.80	2.40	Culvert A
B-1a	1.65	0.50	0.83	10.00	6.10	5.03	7.10	5.86	8.30	6.85	9.80	8.09	Shadow Ridge Road
B-1b	1.15	0.50	0.58	10.00	6.10	3.51	7.10	4.08	8.30	4.77	9.80	5.64	Shadow Ridge Road
B-2	2.52	0.50	1.26	10.00	6.10	7.69	7.10	8.95	8.30	10.46	9.80	12.35	Drop Inlet
B-3a	1.80	0.50	0.90	10.00	6.10	5.49	7.10	6.39	8.30	7.47	9.80	8.82	Myers Parkside
B-3b	0.11	0.35	0.04	10.00	6.10	0.23	7.10	0.27	8.30	0.32	9.80	0.38	Myers Parkside
B-3c	0.04	0.35	0.01	10.00	6.10	0.09	7.10	0.10	8.30	0.12	9.80	0.14	Myers Parkside
B-3d	0.04	0.35	0.01	10.00	6.10	0.09	7.10	0.10	8.30	0.12	9.80	0.14	Myers Parkside
B-3e	0.22	0.35	0.08	10.00	6.10	0.47	7.10	0.55	8.30	0.64	9.80	0.75	Myers Parkside
B-3f	0.17	0.35	0.06	10.00	6.10	0.36	7.10	0.42	8.30	0.49	9.80	0.58	Myers Parkside
B-4a	1.66	0.35	0.58	10.00	6.10	3.54	7.10	4.13	8.30	4.82	9.80	5.69	Culvert B
B-4b	3.48	0.50	1.74	10.00	6.10	10.61	7.10	12.35	8.30	14.44	9.80	17.05	Culvert B
C-0	1.38	0.50	0.69	10.00	6.10	4.21	7.10	4.90	8.30	5.73	9.80	6.76	North Detention Pond
C-1	1.90	0.50	0.95	10.00	6.10	5.80	7.10	6.75	8.30	7.89	9.80	9.31	Shadow Ridge Road
C-2	2.08	0.50	1.04	10.00	6.10	6.34	7.10	7.38	8.30	8.63	9.80	10.19	Myers Parkside
C-3	1.61	0.50	0.81	10.00	6.10	4.91	7.10	5.72	8.30	6.68	9.80	7.89	Myers Parkside
C-4	1.91	0.50	0.96	10.00	6.10	5.83	7.10	6.78	8.30	7.93	9.80	9.36	Parkland Valley
C-5	3.28	0.50	1.64	10.00	6.10	10.00	7.10	11.64	8.30	13.61	9.80	16.07	Parkland Valley
D-1	0.36	0.90	0.32	10.00	6.10	1.98	7.10	2.30	8.30	2.69	9.80	3.18	Park Hills Blvd
D-2	0.36	0.90	0.32	10.00	6.10	1.98	7.10	2.30	8.30	2.69	9.80	3.18	Park Hills Blvd
D-3	3.04	0.50	1.52	10.00	6.10	9.27	7.10	10.79	8.30	12.62	9.80	14.90	Park Hills Blvd
D-4	2.33	0.50	1.17	10.00	6.10	7.11	7.10	8.27	8.30	9.67	9.80	11.42	Park Hills Blvd
D-5	2.93	0.50	1.47	10.00	6.10	8.94	7.10	10.40	8.30	12.16	9.80	14.36	Grove Vale Court
D-6	3.34	0.50	1.67	10.00	6.10	10.19	7.10	11.86	8.30	13.86	9.80	16.37	Grove Vale Court
E-1a	2.77	0.50	1.39	10.00	6.10	8.45	7.10	9.83	8.30	11.50	9.80	13.57	Parkland Valley
E-1b	0.29	0.35	0.10	10.00	6.10	0.62	7.10	0.72	8.30	0.84	9.80	0.99	Parkland Valley
E-1c	0.26	0.35	0.09	10.00	6.10	0.56	7.10	0.65	8.30	0.76	9.80	0.89	Parkland Valley
E-1d	0.29	0.35	0.10	10.00	6.10	0.62	7.10	0.72	8.30	0.84	9.80	0.99	Parkland Valley
E-1e	0.15	0.35	0.05	10.00	6.10	0.32	7.10	0.37	8.30	0.44	9.80	0.51	Parkland Valley
E-1f	0.27	0.35	0.09	10.00	6.10	0.58	7.10	0.67	8.30	0.78	9.80	0.93	Parkland Valley
E-2a	0.66	0.50	0.33	10.00	6.10	2.01	7.10	2.34	8.30	2.74	9.80	3.23	Parkland Valley
E-2b	0.63	0.50	0.32	10.00	6.10	1.92	7.10	2.24	8.30	2.61	9.80	3.09	Parkland Valley
E-2c	0.21	0.35	0.07	10.00	6.10	0.45	7.10	0.52	8.30	0.61	9.80	0.72	Parkland Valley
E-2d	0.23	0.35	0.08	10.00	6.10	0.49	7.10	0.57	8.30	0.67	9.80	0.79	Parkland Valley
E-2e	0.25	0.35	0.09	10.00	6.10	0.53	7.10	0.62	8.30	0.73	9.80	0.86	Parkland Valley
E-3	2.83	0.50	1.42	10.00	6.10	8.63	7.10	10.05	8.30	11.74	9.80	13.87	South Detention Pond
OS-1a	1.87	0.50	0.94	10.00	6.10	5.70	7.10	6.64	8.30	7.76	9.80	9.16	Squabble Creek
OS-1b	4.21	0.90	3.79	10.00	6.10	23.11	7.10	26.90	8.30	31.45	9.80	37.13	Squabble Creek
OS-1c	1.66	0.35	0.58	20.00	4.90	2.85	5.90	3.43	6.60	3.83	8.30	4.82	Squabble Creek
OS-1d	10.16	0.35	3.56	20.00	4.90	17.42	5.90	20.98	6.60	23.47	8.30	29.51	Squabble Creek
OS-2a	7.13	0.35	2.50	20.00	4.90	12.23	5.90	14.72	6.60	16.47	8.30	20.71	Squabble Creek
OS-2b	0.60	0.90	0.54	10.00	6.10	3.29	7.10	3.83	8.30	4.48	9.80	5.29	Squabble Creek
OS-2c	2.77	0.50	1.39	10.00	6.10	8.45	7.10	9.83	8.30	11.50	9.80	13.57	Squabble Creek
OS-2d	1.41	0.90	1.27	10.00	6.10	7.74	7.10	9.01	8.30	10.53	9.80	12.44	Squabble Creek
OS-2e	11.65	0.90	10.49	10.00	6.10	63.96	7.10	74.44	8.30	87.03	9.80	102.75	Squabble Creek
OS-2f	2.67	0.50	1.34	10.00	6.10	8.14	7.10	9.48	8.30	11.08	9.80	13.08	Squabble Creek
OS-3a	0.72	0.50	0.36	10.00	6.10	2.20	7.10	2.56	8.30	2.99	9.80	3.53	South Prong
OS-3b	1.68	0.50	0.84	10.00	6.10	5.12	7.10	5.96	8.30	6.97	9.80	8.23	South Prong
OS-4a	1.47	0.50	0.74	10.00	6.10	4.48	7.10	5.22	8.30	6.10	9.80	7.20	South Prong
OS-4b	0.51	0.50	0.26	10.00	6.10	1.56	7.10	1.81	8.30	2.12	9.80	2.50	South Prong
OS-4c	1.15	0.35	0.40	20.00	4.90	1.97	5.90	2.37	6.60	2.66	8.30	3.34	South Prong

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PROPOSED DRAINAGE AREA MAP

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
06/29/2023

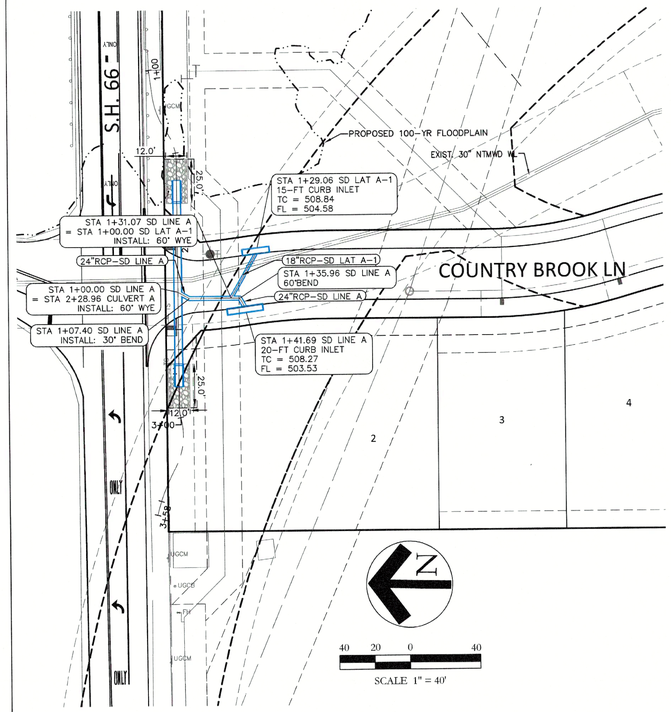
JVC No 502

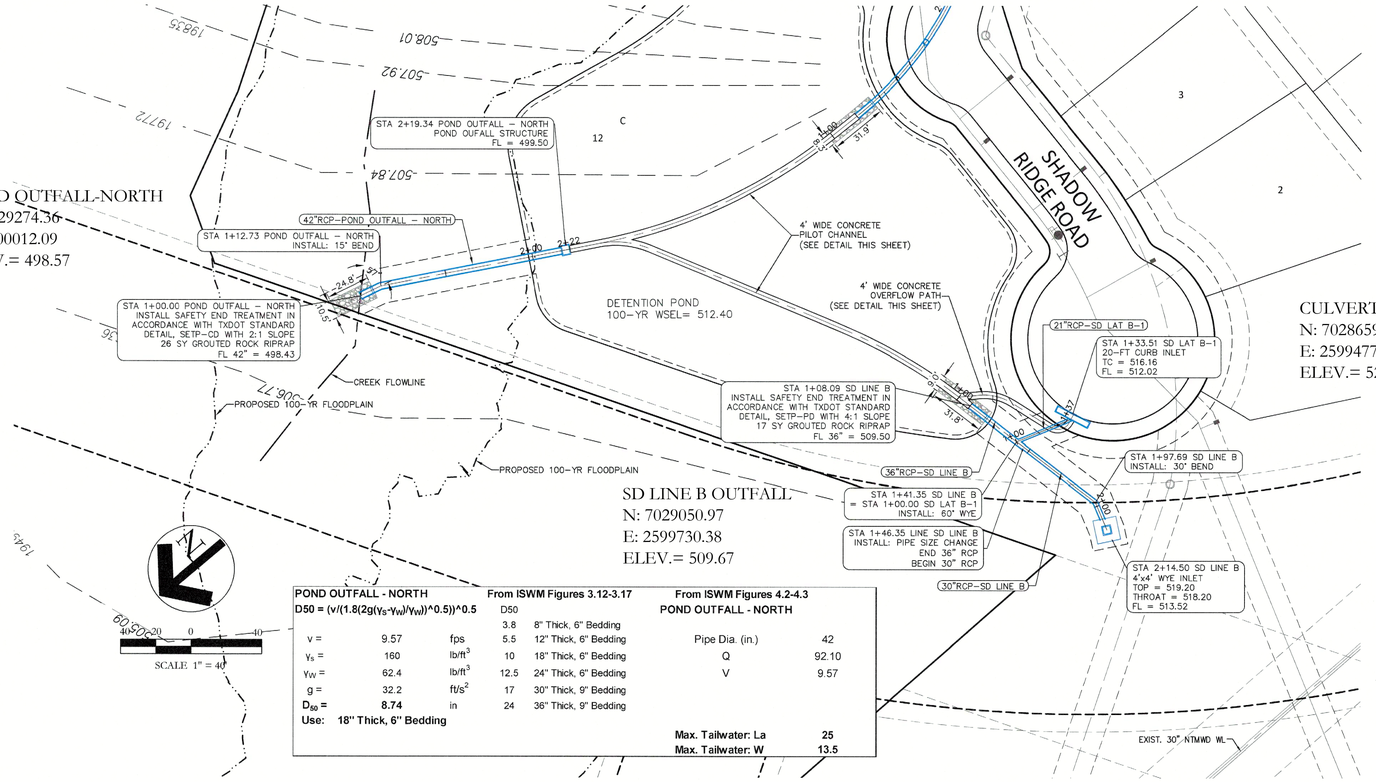
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PROPOSED 100-YR INLET CALCULATIONS

Location				Area Runoff							Gutter Flow														Inlet Capacity										Inlet By-Pass				
																									Depressed Gutter Section		Section Beyond		Conveyance										
Inlet ID	Alignment	Station	Offset	Design Frequency	C	Area ID	Time of Concentration	Intensity	Area	Runoff	Upstream Bypass	Total Gutter Flow	Thoroughfare Type	On-Grade/Sag	Manning's	Longitudinal Slope	Crown Type	Cross Slope	Depression Depth	Depression Width	Ponding Width/Spread		Depth of Gutter Flow		Maximum Allowable Flow Based on Maximum Allowable Ponding Width	Area	Wetted Perimeter	Area	Wetted Perimeter	Depression Section	Section Beyond Depression	Ratio of Depression flow to Total Flow	Equivalent Cross-slope	Inlet Length Required	Inlet Length Actual	Inlet Capacity	Flow	C * A	To Inlet ID	Remarks
					C		T_c	I	A	Q	Q_{bypass}	Q_a			n	S		S_x	a	W	T_{allow}	T_{actual}	y_{allow}	y_{actual}	$Q_{allow\,gutter}$	A_w	P_w	A_0	P_0	K_w	K_0	E_0	S_e	$l_{req'd}$	l_{actual}	Q_c	Q_{bypass}			
				(yr)			(min)	(in/hr)	(acres)	(cfs)	(cfs)	(cfs)				(ft/ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(ft2)	(ft)	(ft2)	(ft)	(cfs)	(cfs)		(ft/ft)	(ft)	(ft)	(cfs)	(cfs)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)
A-1	SD LINE A	1+41.69'	0.00	100	0.54	A-1a - A-1b	10.00	9.80	4.82	25.42	0.00	25.42	LOCAL	ON-GRADE	0.0175	0.050	STRAIGHT	0.036	0.50	2.0	14.0	12.9	0.50	0.46	31.53	1.35	2.08	2.11	10.9	85.77	60.22	0.59	0.18	29.9	20.0	21.95	3.47	0.35		
A-2	SD LAT A-1	1+29.06'	0.00	100	0.50	A-2	10.00	9.80	0.74	3.63	0.00	3.63	LOCAL	ON-GRADE	0.0175	0.052	STRAIGHT	0.036	0.50	2.0	14.0	6.2	0.50	0.22	32.16	0.87	2.08	0.31	4.2	41.20	4.64	0.90	0.26	10.8	15.0	7.96	0.00	0.00		
B-1	SD LAT B-1	1+33.51'	0.00	100	0.50	B-1a - B-1b	10.00	9.80	2.80	13.72	1.02	14.74	LOCAL	SAG	0.0175	0.013	STRAIGHT	0.036	0.50	2.0	14.0	13.5	0.50	0.48	16.09	1.39	2.08	2.37	11.5	90.65	70.05	0.56	0.18	15.5	20.0	18.20	0.00	0.00		
B-2	SD LINE B	2+14.50'	0.00	100	0.47	B-2 - B-4	10.00	9.80	10.04	45.90	0.00	45.90	N/A	DROP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	0.95	49.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9	16.0	49.39	0.00	0.00		
B-3	CULVERT B	1+78.35'	0.00	100	0.46	B-3a - B-3f	10.00	9.80	2.38	10.81	0.00	10.81	LOCAL	ON-GRADE	0.0175	0.0398	STRAIGHT	0.036	0.50	2.0	14.0	9.8	0.50	0.35	28.15	1.13	2.08	1.07	7.8	63.45	24.41	0.72	0.22	17.6	10.0	8.43	2.38	0.24	C-3	
C-1	SD LAT C-1	1+16.74'	0.00	100	0.50	C-1	10.00	9.80	1.90	9.31	7.66	16.97	LOCAL	ON-GRADE	0.0175	0.0185	STRAIGHT	0.036	0.50	2.0	14.0	13.3	0.50	0.48	19.19	1.38	2.08	2.30	11.3	89.27	67.19	0.57	0.18	19.0	15.0	15.95	1.02	0.10	B-1	
C-2	SD LAT C-2-a	1+16.91'	0.00	100	0.50	C-2	10.00	9.80	2.08	10.19	0.00	10.19	LOCAL	ON-GRADE	0.0175	0.0108	STRAIGHT	0.036	0.50	2.0	14.0	12.2	0.50	0.44	14.66	1.30	2.08	1.85	10.2	80.59	50.51	0.61	0.19	12.6	10.0	9.61	0.59	0.06	C-1	
C-3	SD LAT C-2	2+22.58'	0.00	100	0.50	C-3	10.00	9.80	1.61	7.89	2.38	10.27	LOCAL	ON-GRADE	0.0175	0.0108	STRAIGHT	0.036	0.50	2.0	14.0	12.2	0.50	0.44	14.66	1.30	2.08	1.87	10.2	80.86	50.99	0.61	0.19	12.6	10.0	9.66	0.61	0.06	C-1	
C-4	SD LAT C-3	1+16.91'	0.00	100	0.50	C-4	10.00	9.80	1.91	9.35	0.00	9.36	LOCAL	ON-GRADE	0.0175	0.0356	STRAIGHT	0.036	0.50	2.0	14.0	9.4	0.50	0.34	26.62	1.10	2.08	0.99	7.4	61.33	21.83	0.74	0.22	15.9	10.0	7.80	1.56	0.16	C-1	
C-5	SD LINE C	9+16.16'	0.00	100	0.50	C-5	10.00	9.80	3.28	16.07	0.00	16.07	LOCAL	ON-GRADE	0.0175	0.0313	STRAIGHT	0.036	0.50	2.0	14.0	11.8	0.50	0.42	24.97	1.27	2.08	1.73	9.8	78.06	46.07	0.63	0.19	20.7	10.0	11.17	4.91	0.50	C-1	
D-1	SD LAT D-1	1+47.84'	0.00	100	0.90	D-1	10.00	9.80	0.36	3.18	3.81	6.98	LOCAL	SAG	0.0175	0.007	STRAIGHT	0.036	0.50	2.0	14.0	11.5	0.50	0.41	11.81	1.25	2.08	1.60	9.5	75.38	41.59	0.64	0.20	8.0	10.0	8.20	0.00	0.00		
D-2	SD LAT D-1-a	1+20.51'	0.00	100	0.90	D-2	10.00	9.80	0.36	3.18	5.31	8.48	LOCAL	SAG	0.0175	0.007	STRAIGHT	0.036	0.50	2.0	14.0	12.3	0.50	0.44	11.81	1.31	2.08	1.91	10.3	81.73	52.56	0.61	0.19	9.0	10.0	9.15	0.00	0.00		
D-3	SD LAT D-2-a	1+16.74'	0.00	100	0.50	D-3	10.00	9.80	3.04	14.90	0.00	14.90	LOCAL	ON-GRADE	0.0175	0.025	STRAIGHT	0.036	0.50	2.0	14.0	12.0	0.50	0.43	22.22	1.29	2.08	1.79	10.0	79.38	48.37	0.62	0.19	18.8	10.0	11.09	3.81	0.39	D-1	
D-4	SD LAT D-2-b	1+16.74'	0.00	100	0.50	D-4	10.00	9.80	2.33	11.42	6.09	17.51	LOCAL	ON-GRADE	0.0175	0.025	STRAIGHT	0.036	0.50	2.0	14.0	12.8	0.50	0.46	22.22	1.34	2.08	2.07	10.8	84.98	58.65	0.59	0.18	20.6	10.0	12.20	5.31	0.54	D-2	
D-5	SD LAT D-2-c	1+16.97'	0.00	100	0.50	D-5	10.00	9.80	2.93	14.36	0.00	14.36	LOCAL	ON-GRADE	0.0175	0.014	STRAIGHT	0.036	0.50	2.0	14.0	13.2	0.50	0.47	16.70	1.37	2.08	2.24	11.2	88.21	65.03	0.58	0.18	16.2	10.0	11.81	2.55	0.26	D-4	
D-6	SD LAT D-2	2+77.66'	0.00	100	0.50	D-6	10.00	9.80	3.34	16.37	0.00	16.37	LOCAL	ON-GRADE	0.0175	0.014	STRAIGHT	0.036	0.50	2.0	14.0	13.9	0.50	0.50	16.70	1.42	2.08	2.51	11.9	93.35	75.84	0.55	0.17	17.5	10.0	12.82	3.54	0.36	D-4	
E-1	SD LINE E	2+84.36'	0.00	100	0.45	E-1a - E-1f	10.00	9.80	4.03	17.89	0.00	17.89	LOCAL	ON-GRADE	0.0175	0.0180	STRAIGHT	0.036	0.50	2.0	14.0	13.7	0.50	0.49	18.93	1.41	2.08	2.43	11.7	91.89	72.68	0.56	0.18	19.4	10.0	13.02	4.88	0.50	E-2	
E-2	SD LAT E-1	1+53.48'	0.00	100	0.45	E-2a - E-2e	10.00	9.80	1.98	8.69	4.88	13.56	LOCAL	SAG	0.0175	0.0120	STRAIGHT	0.036	0.50	2.0	14.0	13.3	0.50	0.47	15.45	1.38	2.08	2.28	11.3	88.97	66.62	0.57	0.18	14.4	15.0	14.00	0.00	0.00		

Conduit Properties															Incremental Drainage Area				Pipe Calculations																				
System ID	Collection Point Station		Length	# of Barrels	Pipe Size	Box		Type	Area	Wetted Perimeter	Hydraulic Radius	Manning's n	Flowline Elevation		Slope	Inlet ID	Area	Runoff Coefficient	Incremental C * A	Accumulated C * A	Upstream T_c	Design Storm Frequency	Intensity	Runoff	Conduit Capacity	Partial Flow	Velocity	Time in Conduit	Friction Slope	Friction Headloss	HGL		Headloss Calculations					Design HGL	Top of Curb Elevation	HGL Depth Below T/C	Remarks
	U/S	D/S				Span	Rise			P_w		n	U/S	D/S			Area	C	CA	CA	T_c		I	Q	Q_c	(YES/NO)	V		S_f		U/S	D/S	$V_1^2/2g$	$V_2^2/2g$	Junction Type	K_j	H_L				
			(ft)		(in)	(in)	(in)		(ft^2)	(ft)	(ft)		(ft)	(ft)	(ft/ft)		(ac)				(min)	(yr)	(in/hr)	(cfs)	(cfs)		(ft/s)	(min)	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)			(ft)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
CULVERT A	2+82.47'	2+28.96'	53.51	N/A	N/A	48	24	RCB	8.00	12.00	0.67	0.013	503.09	502.45	0.012	CULVERT A	6.54	0.70	4.57	4.57	10.00	100	9.80	44.83	76.65	YES	6.36	0.14	0.004	0.22	505.58	505.36	0.00	0.63	INLET				0.79	506.37		
CULVERT A	2+28.96'	1+65.46'	63.50	N/A	N/A	48	24	RCB	8.00	12.00	0.67	0.013	502.45	501.68	0.012	A-1 & A-2	5.56	0.53	2.96	7.54	10.00	100	9.80	70.41	76.65	YES	9.00	0.12	0.010	0.64	504.32	503.68	0.63	1.26	WYE	0.35	1.04	505.36				
SD LINE A	1+41.69'	1+35.96'	5.73	N/A	N/A	24	N/A	RCP	3.14	6.28	0.50	0.013	503.53	503.37	0.028	A-1	4.82	0.54	2.59	2.59	10.00	100	9.80	21.95	37.96	YES	6.99	0.01	0.009	0.05	506.29	506.24	0.00	0.76	INLET				0.95	507.24	508.27	1.03	
SD LINE A	1+35.96'	1+31.07'	4.90	N/A	N/A	24	N/A	RCP	3.14	6.28	0.50	0.013	503.37	503.23	0.028					2.59	10.00	100	9.80	21.95	37.96	YES	6.99	0.01	0.009	0.05	505.91	505.87	0.76	0.76	BEND	0.43	0.33	506.24				
SD LINE A	1+31.07'	1+07.40'	23.66	N/A	N/A	24	N/A	RCP	3.14	6.28	0.50	0.013	503.23	502.57	0.028	A-2	0.74	0.50	0.37	2.96	10.00	100	9.80	25.58	37.96	YES	8.14	0.05	0.013	0.30	505.10	504.80	0.76	1.03	WYE	0.35	0.76	505.87				
SD LINE A	1+07.40'	1+00.00'	7.40	N/A	N/A	24	N/A	RCP	3.14	6.28	0.50	0.013	502.57	502.45	0.017					2.96	10.00	100	9.80	25.58	29.58	YES	8.14	0.02	0.013	0.09	504.54	504.45	1.03	1.03	BEND	0.25	0.26	504.80				
SD LAT A-1	1+29.06'	1+00.00'	29.06	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	504.58	503.73	0.029	A-2	0.74	0.50	0.37	0.37	10.00	100	9.80	3.63	18.00	YES	2.05	0.24	0.001	0.03	505.90	505.87	0.00	0.07	INLET				0.08	505.98	508.82	2.84	
CULVERT B	2+09.80'	1+78.35'	31.46	N/A	N/A	30	N/A	RCP	4.91	7.85	0.63	0.013	529.48	529.17	0.010	CULVERT B	5.14	0.45	2.32	2.32	10.00	100	9.80	22.75	41.13	YES	4.63	0.11	0.003	0.10	532.27	532.17	0.00	0.33	INLET				0.42	532.69			
CULVERT B	1+78.35'	1+12.00'	66.35	N/A	N/A	30	N/A	RCP	4.91	7.85	0.63	0.013	529.17	528.51	0.010	B-3	2.38	0.46	1.10	3.42	10.00	100	9.80	31.17	41.13	YES	6.35	0.17	0.006	0.38	531.39	531.01	0.33	0.63	INLET				0.78	532.17	534.50	2.33	
SD LINE B	2+14.50'	1+97.69'	16.81	N/A	N/A	30	N/A	RCP	4.91	7.85	0.63	0.013	513.52	512.74	0.046	B-2	10.04	0.47	4.68	8.11	10.00	100	9.80	45.90	88.21	YES	9.35	0.03	0.012	0.21	515.45	515.24	0.63	1.36	INLET				1.70	517.15	519.20	2.05	
SD LINE B	1+97.69'	1+46.35'	51.34	N/A	N/A	30	N/A	RCP	4.91	7.85	0.63	0.013	512.74	510.38	0.046					8.11	10.00	100	9.80	45.90	88.21	YES	9.35	0.09	0.012	0.64	514.45	513.81	1.36	1.36	BEND	0.25	0.34	514.79				
SD LINE B	1+46.35'	1+41.35'	5.00	N/A	N/A	36	N/A	RCP	7.07	9.42	0.75	0.013	509.88	509.83	0.010					8.11	10.00	100	9.80	45.90	66.88	YES	6.49	0.01	0.005	0.02	513.81	513.78	1.36	0.65	NULL				0.00	513.81			
SD LINE B	1+41.35'	1+08.09'	33.26	N/A	36	N/A	N/A	RCP	7.07	9.42	0.75	0.013	509.83	509.50	0.010	B-1	2.80	0.50	1.40	9.51	10.00	100	9.80	60.64	66.88	YES	8.58	0.06	0.008	0.27	512.67	512.40	0.65	1.14	WYE	0.05	1.11	513.78				
SD LAT B-1	1+33.51'	1+00.00'	33.51	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	512.02	511.08	0.028	B-1	2.80	0.50	1.40	1.40	10.00	100	9.80	14.74	26.54	YES	6.13	0.09	0.009	0.29	514.10	513.81	0.00	0.58	INLET				0.73	514.82	516.22	1.40	
SD LINE C	9+16.16'	8+99.60'	16.56	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	528.45	528.04	0.025	C-5	3.28	0.50	1.64	1.64	10.00	100	9.80	11.17	16.65	YES	6.32	0.04	0.011	0.19	530.25	530.06	0.00	0.62	INLET				0.77	531.02	532.68	1.66	
SD LINE C	8+99.60'	8+75.70'	23.90	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	528.04	527.44	0.025					1.64	10.00	100	9.80	11.17	16.65	YES	6.32	0.06	0.011	0.27	529.79	529.52	0.62	0.62	BEND	0.43	0.27	530.06				
SD LINE C	8+75.70'	8+71.70'	4.00	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	527.19	527.06	0.032					1.64	10.00	100	9.80	11.17	28.42	YES	4.64	0.01	0.005	0.02	529.52	529.50	0.62	0.33	NULL				0.00	529.52			
SD LINE C	8+71.70'	8+31.46'	40.24	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	527.06	525.78	0.032	C-4	1.91	0.50	0.96	2.60	10.00	100	9.80	18.97	28.42	YES	7.89	0.09	0.014	0.57	528.68	528.08	0.33	0.97	WYE	0.35	0.85	529.50				
SD LINE C	8+31.46'	8+13.87'	17.59	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	525.78	525.51	0.015					2.60	10.00	100	9.80	18.97	19.46	YES	7.89	0.04	0.014	0.25	527.73	527.47	0.97	0.97	BEND	0.37	0.36	528.08				
SD LINE C	8+13.87'	6+17.58'	196.30	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	525.51	522.57	0.015					2.60	10.00	100	9.80	18.97	19.46	YES	7.89	0.41	0.014	2.80	527.12	524.32	0.97	0.97	BEND	0.37	0.36	527.47				
SD LINE C	6+17.58'	4+79.40'	138.18	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	522.57	518.15	0.032					2.60	10.00	100	9.80	18.97	28.42	YES	7.89	0.29	0.014	1.97	523.04	521.07	0.97	0.97	NULL				0.00	523.04			
SD LINE C	4+79.40'	3+66.92'	112.48	N/A	27	N/A	N/A	RCP	3.98	7.07	0.56	0.013	517.65	514.95	0.024	C-2 & C-3	3.69	0.50	1.85	4.44	10.00	100	9.80	38.24	48.11	YES	9.62	0.19	0.015	1.71	519.88	518.17	0.97	1.44	WYE	0.25	1.19	521.07	523.01	1.94	
SD LINE C	3+66.92'	3+61.92'	5.00	N/A	33	N/A	N/A	RCP	5.94	8.64	0.69	0.013	514.45	514.39	0.011					4.44	10.00	100	9.80	38.24	55.62	YES	6.44	0.01	0.005	0.03	518.17	518.15	1.44	0.64	NULL				0.00	518.17			
SD LINE C	3+61.92'	2+42.34'	119.59	N/A	33	N/A	N/A	RCP	5.94	8.64	0.69	0.013	514.39	513.08	0.011	C-1	1.90	0.50	0.95	5.39	10.00	100	9.80	54.19	55.62	YES	9.12	0.22	0.010	1.25	517.08	515.83	0.64	1.29	WYE	0.35	1.07	518.15				
SD LINE C	2+42.34'	1+75.32'	67.02	N/A	33	N/A	N/A	RCP	5.94	8.64	0.69	0.013	513.08	512.34	0.011					5.39	10.00	100	9.80	54.19	55.62	YES	9.12	0.12	0.010	0.70	515.79	515.09	1.29	1.29	NULL				0.00	515.79			
SD LINE C	1+75.32'	1+37.40'	37.92	N/A	33	N/A	N/A	RCP	5.94	8.64	0.69	0.013	512.34	509.02	0.087					5.39	10.00	100	9.80	54.19	156.77	YES	9.12	0.07	0.010	0.40	513.00	512.60	1.29	1.29	NULL				0.00	513.00			
SD LINE C	1+37.40'	1+17.77'	19.63	N/A	33	N/A	N/A	RCP	5.94	8.64	0.69	0.013	509.02	508.80	0.011					5.39	10.00	100	9.80	54.19	56.12	YES	9.12	0.04	0.010	0.20	512.60	512.40	1.29	1.29	NULL				0.00	512.60			
SD LAT C-1	1+16.74'	1+00.00'	16.74	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	515.70	515.39	0.018	C-1	1.90	0.50	0.95	0.95	10.00	100	9.80	15.95	21.49	YES	6.63	0.04	0.010	0.17	518.31	518.15	0.00	0.68	INLET				0.85	519.17	520.18	1.01	
SD LAT C-2	2+22.58'	2+09.47'	13.12	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	520.31	520.15	0.012	C-3	1.61	0.50	0.81	0.81	10.00	100	9.80	9.66	11.54	YES	5.47	0.04	0.008	0.11	523.52	523.41	0.00	0.46	INLET				0.58	524.10	524.51	0.99	
SD LAT C-2	2+09.47'	1+75.38'	34.09	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	520.15	519.74	0.012					0.81	10.00	100	9.80	9.66	11.54	YES	5.47	0.10	0.008	0.29	523.21	522.92	0.46	0.46	BEND	0.43	0.26	523.41				
SD LAT C-2	1+75.38'	1+55.39'	19.99	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	519.74	519.50	0.012					0.81	10.00	100	9.80	9.66	11.54	YES	5.47	0.06	0.008	0.17	522.92	522.75	0.46	0.46	NULL				0.00	522.92			
SD LAT C-2	1+55.39'	1+51.39'	4.00	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	519.25	519.17	0.020					0.81	10.00	100	9.80	9.66	22.47	YES	4.02	0.02	0.004	0.01	522.75	522.74	0.46	0.25	NULL				0.00	522.75			
SD LAT C-2	1+51.39'	1+10.36'	41.03	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	519.17	518.35	0.020	C-2	2.08	0.50	1.04	1.85	10.00	100	9.80	19.27	22.47	YES	8.01	0.09	0.015	0.60	521.83	521.22	0.25	1.00	WYE	0.35	0.91	522.74				
SD LAT C-2	1+10.36'	1+00.00'	10.36	N/A	21	N/A	N/A	RCP	2.41	5.50	0.44	0.013	518.35	518.15	0.020					1.85	10.00	100	9.80	19.27	22.47	YES	8.01	0.02	0.015	0.15	521.22	521.07	1.00	1.00	NULL				0.00	521.22			
SD LAT C-2-a	1+16.91'	1+00.00'	16.91	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	519.73	519.42	0.018	C-2	2.08	0.50	1.04	1.04	10.00	100	9.80	9.61	14.13	YES	5.44	0.05	0.008	0.14	522.88	522.74	0.00	0.46	INLET				0.57	523.45	523.93	1.05	
SD LAT C-3	1+16.91'	1+00.00'	16.91	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	527.54	527.31	0.013	C-4	1.91	0.50	0.96	0.96	10.00	100	9.80	7.80	12.19	YES	4.41	0.06	0.005	0.09	529.60	529.50	0.00	0.30	INLET				0.38	529.98	531.75	1.77	
CULVERT D	2+32.18'	1+97.56'	34.62	N/A	N/A	144	96	RCB	96.00	40.00	2.40	0.013	510.39	509.88	0.015	CULVERT D					10.00	100	9.80	843.00	2415.65	YES	8.78	0.07	0.002	0.06	520.06	520.00	0.00	1.20	INLET				1.50	521.56			
CULVERT D	1+97.56'	1+94.67'	2.89	N/A	N/A	144	96	RCB	96.00	40.00	2.40	0.013	509.88	509.83	0.015	D-3 - D-6	11.64	0.50	5.82	5.82	10.00	100	9.80	890.92	2415.65	YES	9.28	0.01	0.002	0.01	519.08	519.07	1.20	1.34	WYE	0.35	0.92	520.00				
CULVERT D	1+94.67'	1+77.18'	17.49	N/A	N/A	144	96	RCB	96.00	40.00	2.40	0.013	509.83	509.57	0.015	D-1 & D-2	0.72	0.90	0.65	6.47	10.00	100	9.80	906.39	2415.65	YES	9.44	0.03	0.002	0.04	518.16	518.12	1.34	1.38	WYE	0.35	0.92	519.07				
SD LAT D-1	1+47.84'	1+31.09'	16.74	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	523.51	521.00	0.150	D-1	0.36	0.90	0.32	0.32	10.00	100	9.80	6.98	40.79	YES	3.95	0.07	0.004	0.07	523.51	522.50	0.00	0.24	INLET				0.30	523.81	527.69	3.88	
SD LAT D-1	1+31.09'	1+24.97'	6.13	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	521.00	520.08	0.150					0.32	10.00	100	9.80	6.98	40.79	YES	3.95	0.03	0.004	0.03	522.03	522.00	0.24	0.24	BEND	0.43	0.10	522.14				
SD LAT D-1	1+24.97'	1+20.01'	4.95	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	520.08	519.33	0.150	D-2	0.36	0.90	0.32	0.65	10.00	100	9.80	15.47	40.79	YES	8.75	0.01	0.022	0.11	520.94	520.83	0.24	1.19	WYE	0.50	1.07	522.00				
SD LAT D-1	1+20.01'	1+00.00'	20.01	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	519.33	516.33	0.150					0.65	10.00	100	9.80	15.47	40.79	YES	8.75	0.04	0.022	0.43	519.50	519.07	1.19	1.19	BEND	0.25	0.30	519.80				
SD LAT D-1-a	1+20.51'	1+00.00'	20.51	N/A	18	N/A	N/A	RCP	1.77	4.71	0.38	0.013	523.46	520.08	0.165	D-2	0.36	0.90	0.32	0.32	10.00


S.H. 66
PROPOSED 100-YR FLOODPLAIN
EXIST. 30" NTMWD WL
STA 1+29.06 SD LAT A-1
15-FT CURB INLET
TC = 508.84
FL = 504.58
STA 1+31.07 SD LINE A
= STA 1+00.00 SD LAT A-1
INSTALL: 60° WYE
24"RCP-SD LINE A
18"RCP-SD LAT A-1
STA 1+35.96 SD LINE A
60°BEND
24"RCP-SD LINE A
COUNTRY BROOK LN
STA 1+00.00 SD LINE A
= STA 2+28.96 CULVERT A
INSTALL: 60° WYE
STA 1+07.40 SD LINE A
INSTALL: 30° BEND
STA 1+41.69 SD LINE A
20-FT CURB INLET
TC = 508.27
FL = 503.53
12.0'
25.0'
1+00
2+00
3+00
3+58
UGCM
UGCS
OHP
UGCM
UGCM
OHP
UGCM
UGCS
OHP
UGCM
UGCM
OHP
UGCM
UGCS
OHP
UGCM
UGCM
OHP



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

POND OUTFALL - NORTH — From ISWM Figures 3.12-3.17

$D50 = (v/(1.8(2g(\gamma_S-\gamma_W)/\gamma_W))^{0.5})^{0.5}$

			D50	
			3.8	8" Thick, 6" Bedding
v =	9.57	fps	5.5	12" Thick, 6" Bedding
γ_S =	160	lb/ft^3	10	18" Thick, 6" Bedding
γ_W =	62.4	lb/ft^3	12.5	24" Thick, 6" Bedding
g =	32.2	ft/s^2	17	30" Thick, 9" Bedding
D_{50} =	**8.74**	in	24	36" Thick, 9" Bedding

Use: 18" Thick, 6" Bedding

From ISWM Figures 4.2-4.3

POND OUTFALL - NORTH

Pipe Dia. (in.)	42
Q	92.10
V	9.57
Max. Tailwater: La	**25**
Max. Tailwater: W	**13.5**

CULVERT B — From ISWM Figures 3.12-3.17

$D50 = (v/(1.8(2g(\gamma_S-\gamma_W)/\gamma_W))^{0.5})^{0.5}$

			D50	
			3.8	8" Thick, 6" Bedding
v =	6.35	fps	5.5	12" Thick, 6" Bedding
γ_S =	160	lb/ft^3	10	18" Thick, 6" Bedding
γ_W =	62.4	lb/ft^3	12.5	24" Thick, 6" Bedding
g =	32.2	ft/s^2	17	30" Thick, 9" Bedding
D_{50} =	**7.11**	in	24	36" Thick, 9" Bedding

Use: 18" Thick, 6" Bedding

From ISWM Figures 4.2-4.3

CULVERT B

Pipe Dia. (in.)	30
Q	31.17
V	6.35
Max. Tailwater: La	**11**
Max. Tailwater: W	**6.9**

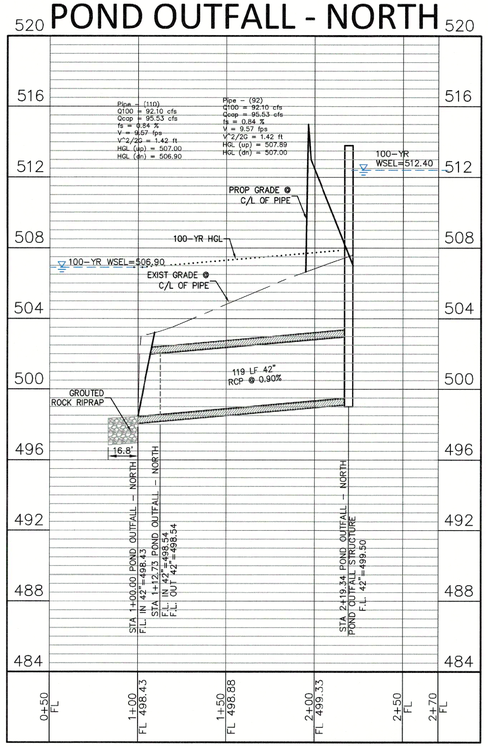
RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

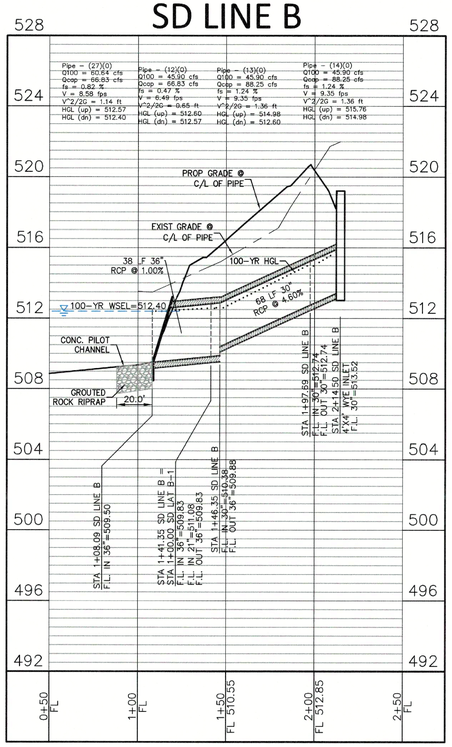
Johnson Volk Consulting, Inc.

PILOT CHANNEL

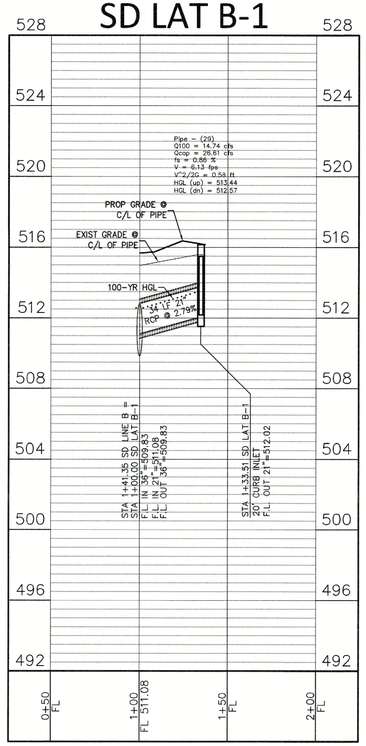
POND OUTFALL - NORTH



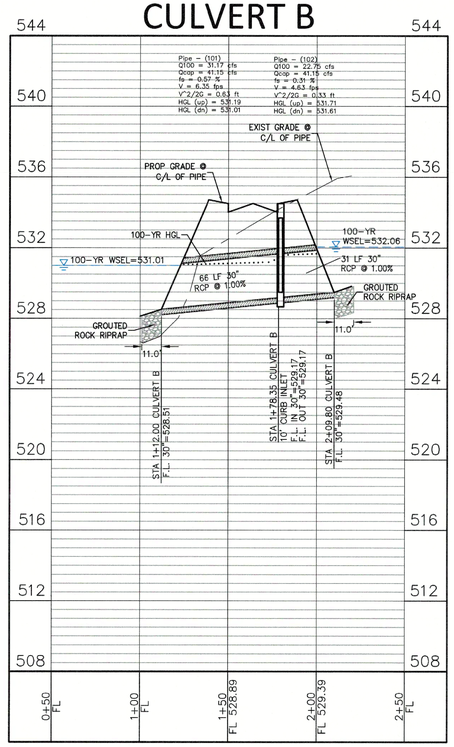
SD LINE B



SD LAT B-1



CULVERT B



LEGEND

– – 634 – –	EXISTING CONTOUR
642	PROPOSED CONTOUR
	PROPOSED STORM DRAIN

PROFILE LEGEND

PIPE – (30)	LINE ID
	EXISTING GRADE
	FINISHED GRADE
	HYDRAULIC GRADE LINE
	100–YR/FLOW DEPTH

CAUTION!!!

EXISTING UTILITIES

THE UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE - SD LINE B

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/19/2023

SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

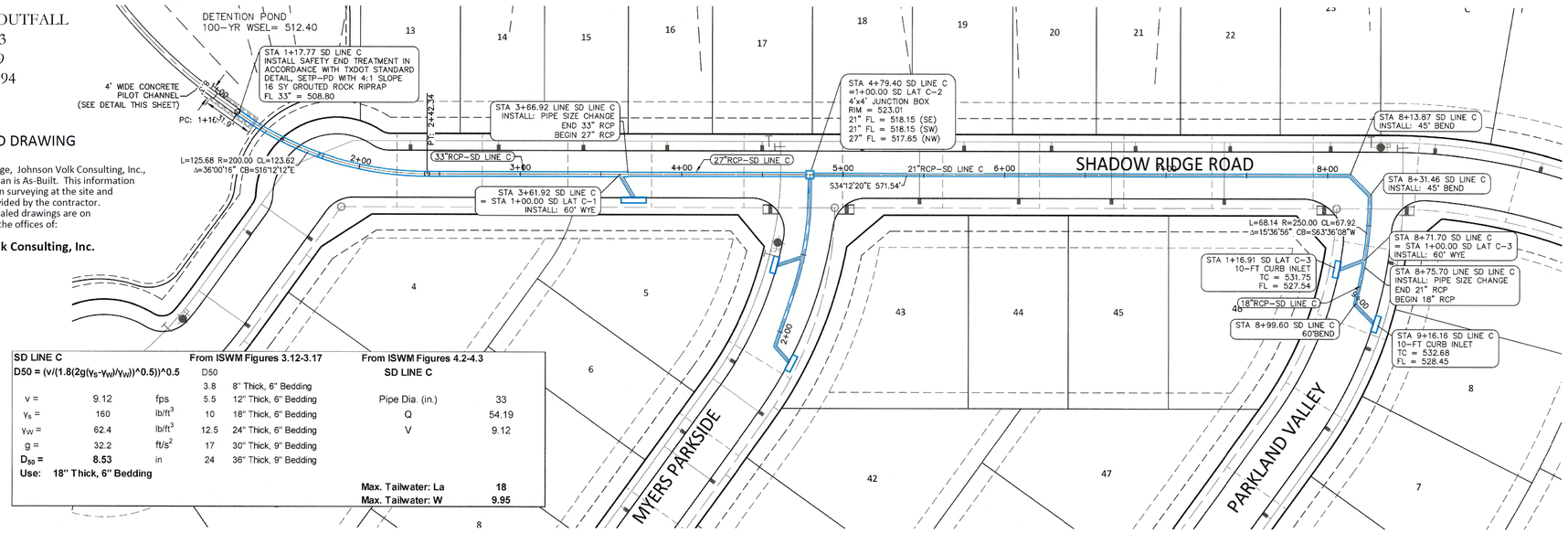
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SD LINE C OUTFALL
N: 7028989.13
E: 2599909.29
ELEV.= 508.94

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.



SD LINE C			From ISWM Figures 3.12-3.17		From ISWM Figures 4.2-4.3	
D50 = (v/(1.8(2g(γs-γw)/γw))^0.5)^0.5			D50		SD LINE C	
			3.8	8" Thick, 6" Bedding		
v =	9.12	fps	5.5	12" Thick, 6" Bedding	Pipe Dia. (in.)	33
γs =	160	lb/ft³	10	18" Thick, 6" Bedding	Q	54.19
γw =	62.4	lb/ft³	12.5	24" Thick, 6" Bedding	V	9.12
g =	32.2	ft/s²	17	30" Thick, 9" Bedding		
D50 =	**8.53**	in	24	36" Thick, 9" Bedding		
Use:	**18" Thick, 6" Bedding**				**Max. Tailwater: La**	**18**
					Max. Tailwater: W	**9.95**

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

SCALE 1" = 40'

PROFILE LEGEND

PIPE – (30)	LINE ID
– – – – –	EXISTING GRADE
———	FINISHED GRADE
·····	HYDRAULIC GRADE LINE 100-YR/FLOW DEPTH

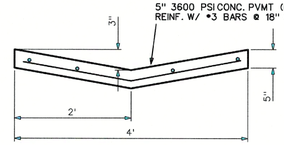
LEGEND

– –634– –	EXISTING CONTOUR
——642——	PROPOSED CONTOUR
	PROPOSED STORM DRAIN

CAUTION!!!
EXISTING UTILITIES

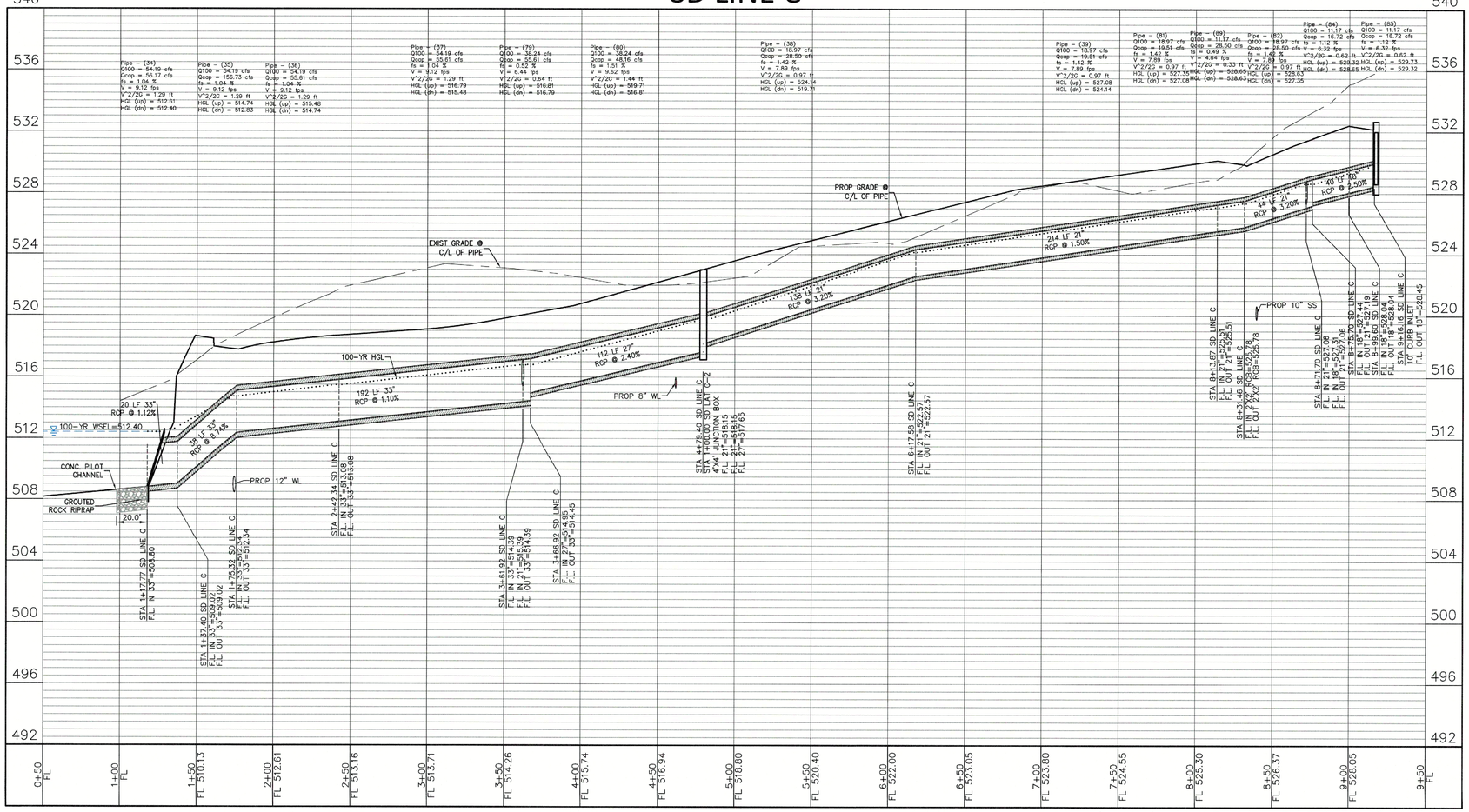
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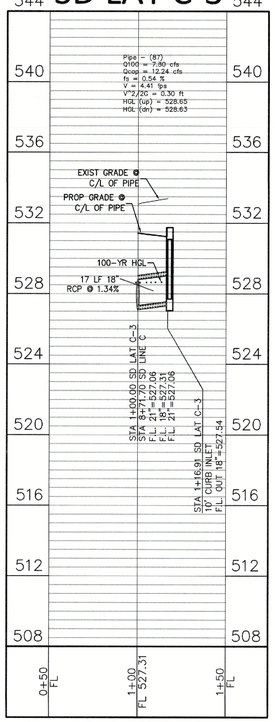
PILOT CHANNEL

SD LINE C



PILOT CHANNEL

SD LAT C-3



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CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE - SD LINE C - SHEET 1 OF 2

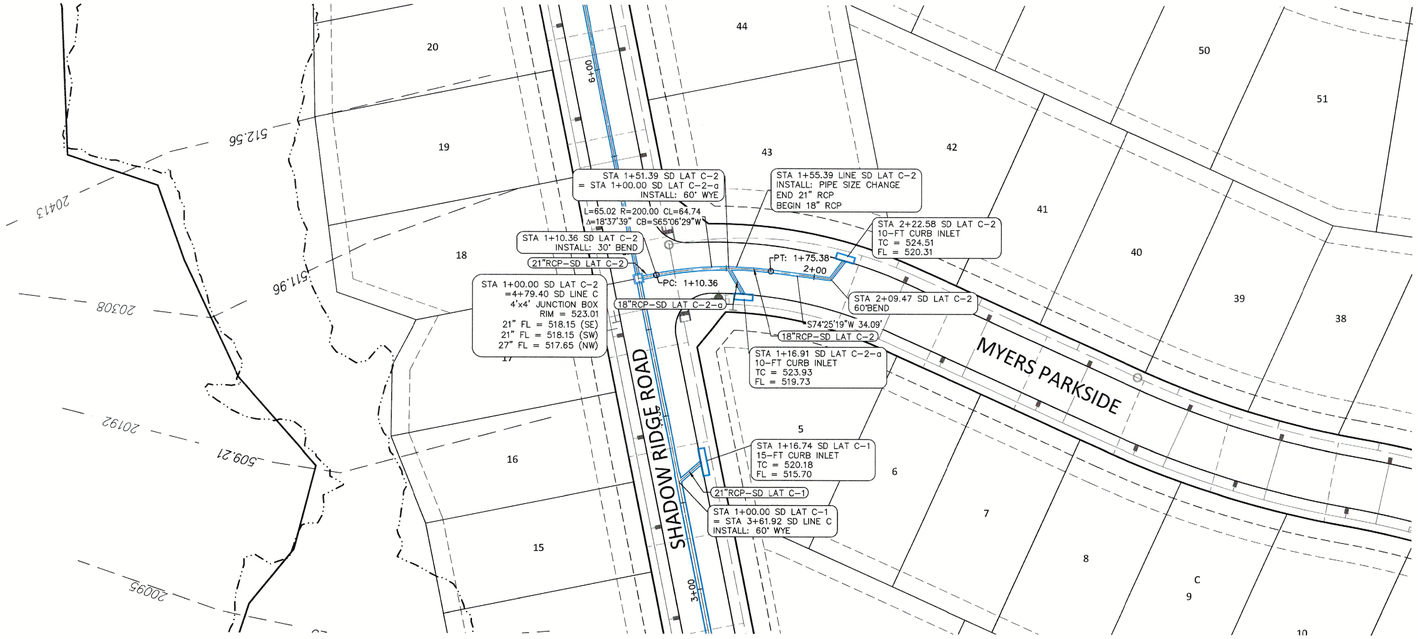
STATE OF TEXAS
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91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

30

j:\civil 3d projects\mip- michael joyce properties\mip1602 - peak hills (rev phase)\dwg\sheets\construction plans\storm plan & profile.dwg



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

N

40 20 0 40

SCALE 1" = 40'

LEGEND

- 634 — EXISTING CONTOUR
- 642 — PROPOSED CONTOUR
- PROPOSED STORM DRAIN

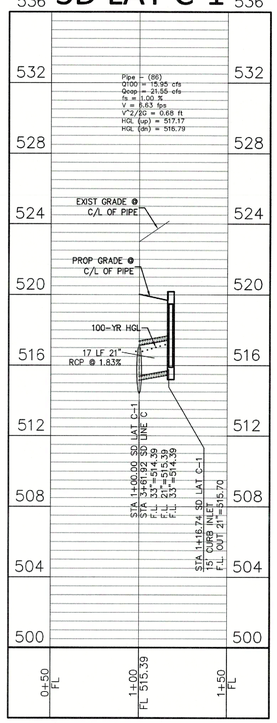
CAUTION!!!

EXISTING UTILITIES

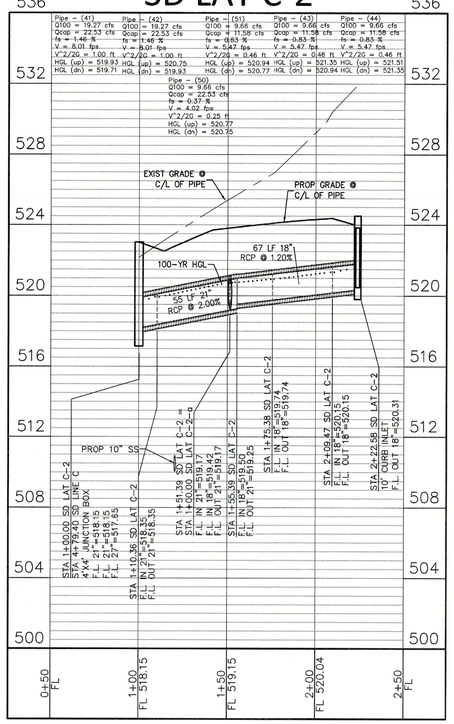
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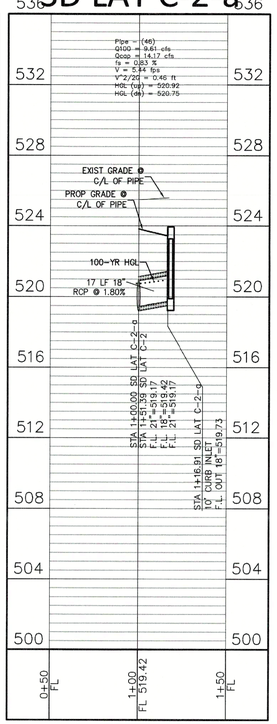
SD LAT C-1



SD LAT C-2



SD LAT C-2-a



PROFILE LEGEND

PIPE – (30)	LINE ID
– – – – –	EXISTING GRADE
———	FINISHED GRADE
.....	HYDRAULIC GRADE LINE
	100-YR/FLOW DEPTH

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE -
SD LINE C - SHEET 2 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/19/2023

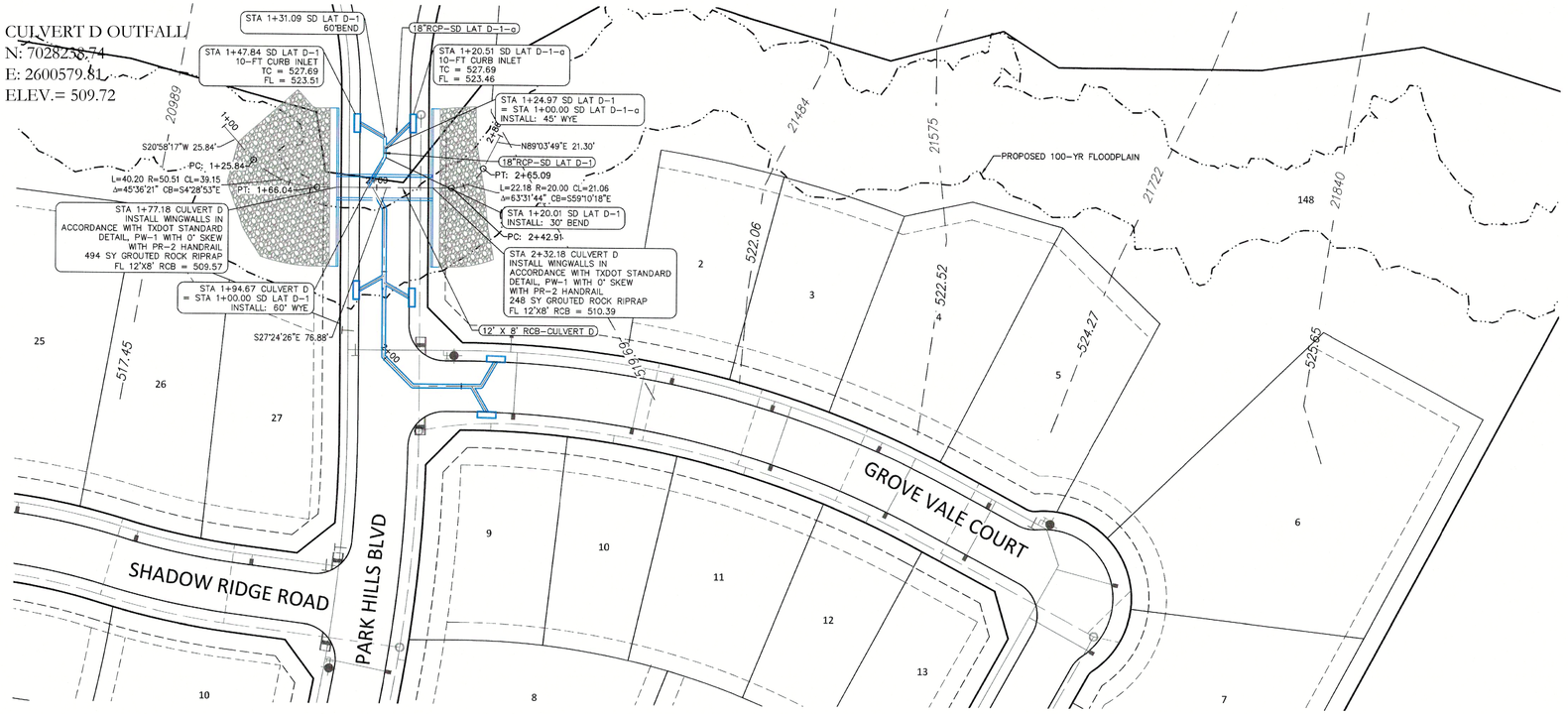
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1" = 4' (V)
One Inch

JVC No 502

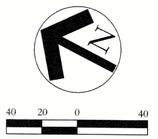
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CULVERT D OUTFALL
N: 7028238.74
E: 2600579.81
ELEV.= 509.72



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.

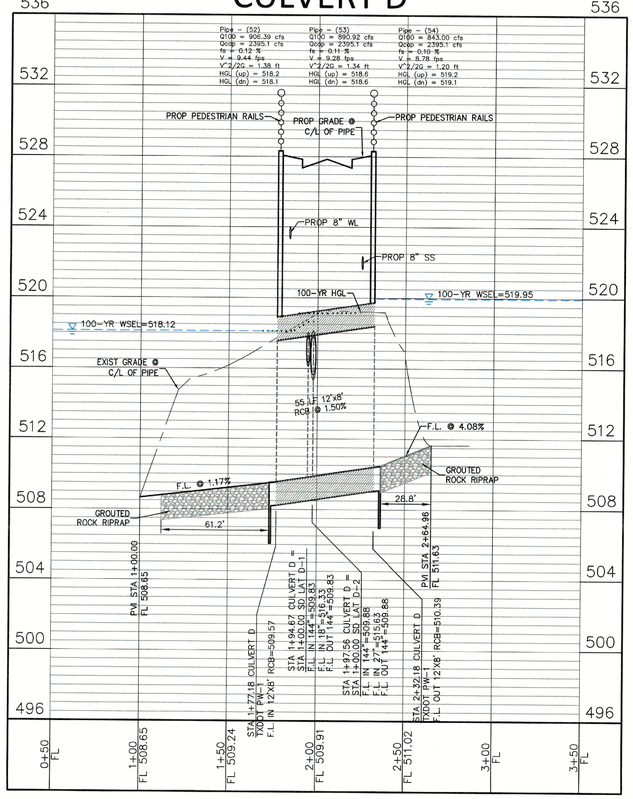


LEGEND

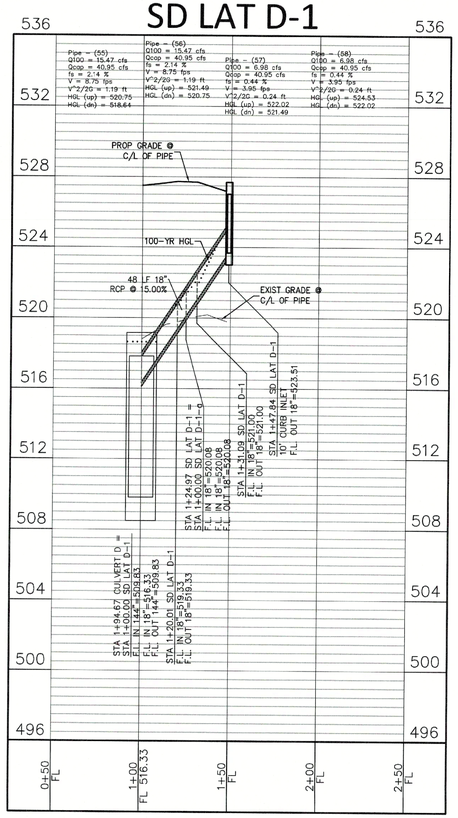
--634--	EXISTING CONTOUR
—642—	PROPOSED CONTOUR
	PROPOSED STORM DRAIN

RIPRAP CALCS (GREGORY METHOD)						
CULVERT D			From ISWM Figures 3.12-3.17		From ISWM Figures 4.2-4.3	
$D50 = (v/(1.8(2g(\gamma_s-\gamma_w)/\gamma_w))^{0.5})^{0.5}$			D50		CULVERT D	
			3.8	8" Thick, 6" Bedding		
v =	9.44	fps	5.5	12" Thick, 6" Bedding	Box Width (in.)	144
γ_s =	160	lb/ft^3	10	18" Thick, 6" Bedding	Q	906.39
γ_w =	62.4	lb/ft^3	12.5	24" Thick, 6" Bedding	V	9.44
g =	32.2	ft/s^2	17	30" Thick, 9" Bedding		
D_{50} =	**8.68**	in	24	36" Thick, 9" Bedding		
Use:	**18" Thick, 6" Bedding**					
					Max. Tailwater: La	**32**
					Max. Tailwater: W	**24.8**

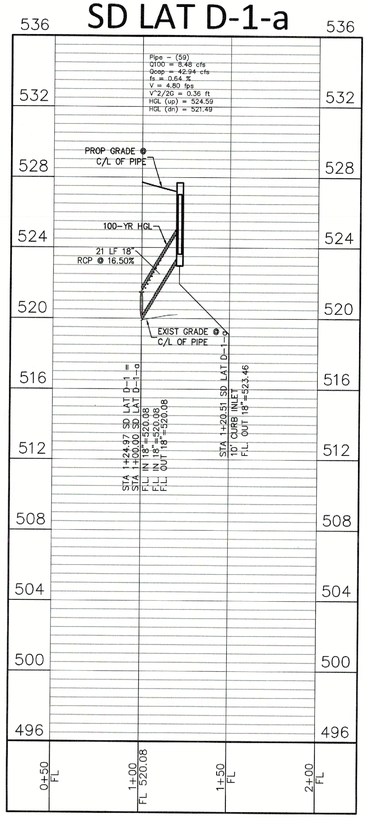
CULVERT D



SD LAT D-1



SD LAT D-1-a



PROFILE LEGEND	
PIPE - (30)	LINE ID
— — — —	EXISTING GRADE
———	FINISHED GRADE
.....	HYDRAULIC GRADE LINE 100-YR/FLOW DEPTH

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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE -
SD LINE D - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/23/2023

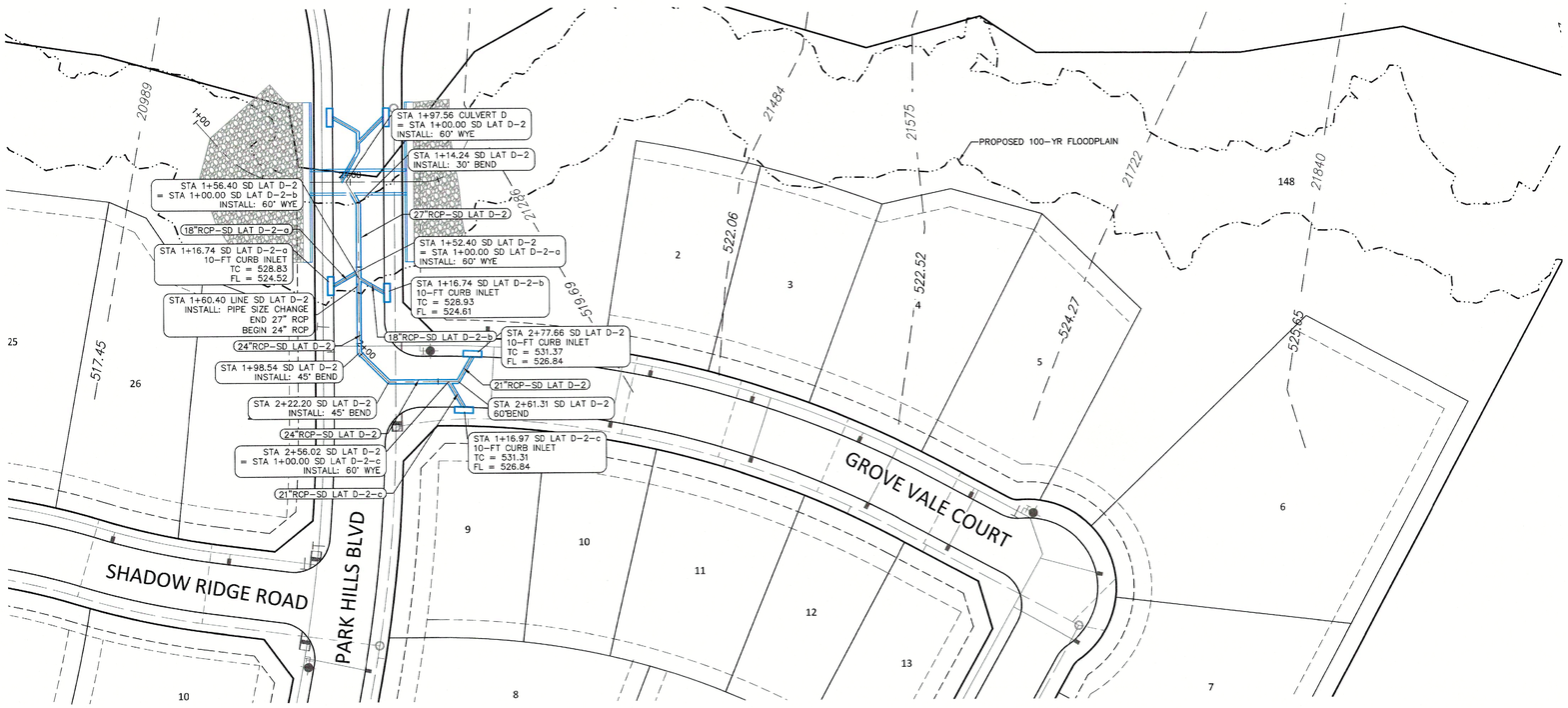
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One Inch

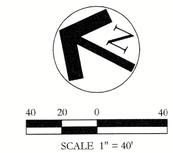
JVC No 502

32

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REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON COVER SHEET.





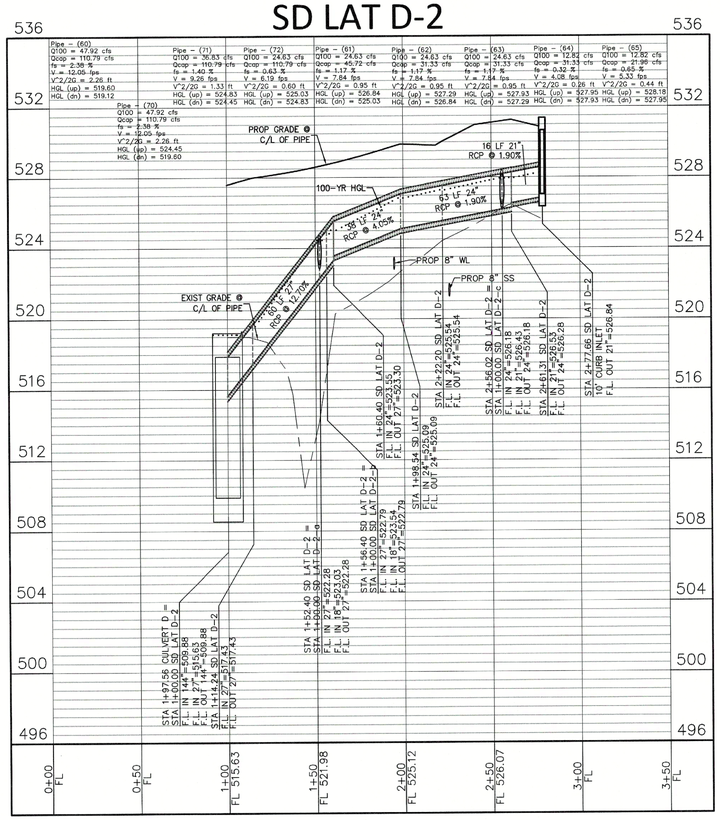
LEGEND

634	EXISTING CONTOUR
642	PROPOSED CONTOUR
	PROPOSED STORM DRAIN

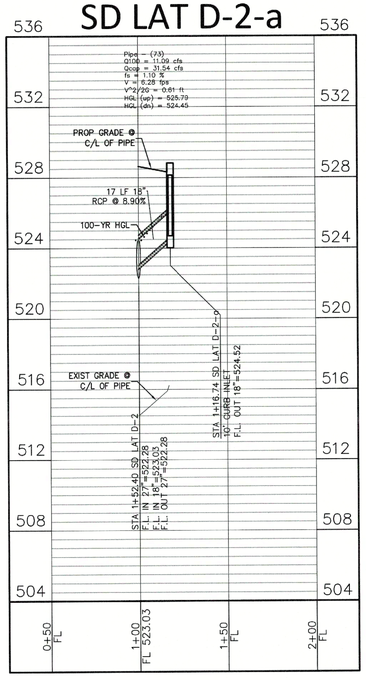
PROFILE LEGEND

PIPE - (30)	LINE ID
	EXISTING GRADE
	FINISHED GRADE
	HYDRAULIC GRADE LINE 100-YR/FLOW DEPTH

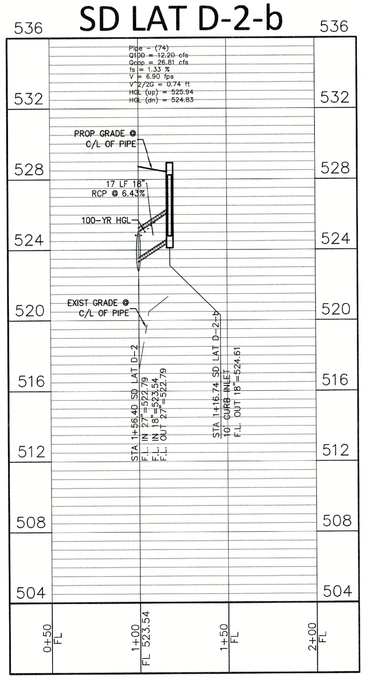
SD LAT D-2



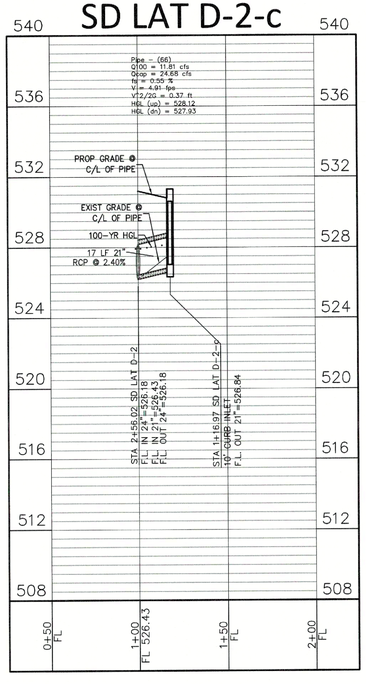
SD LAT D-2-a



SD LAT D-2-b



SD LAT D-2-c



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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE - SD LINE D - SHEET 2 OF 2

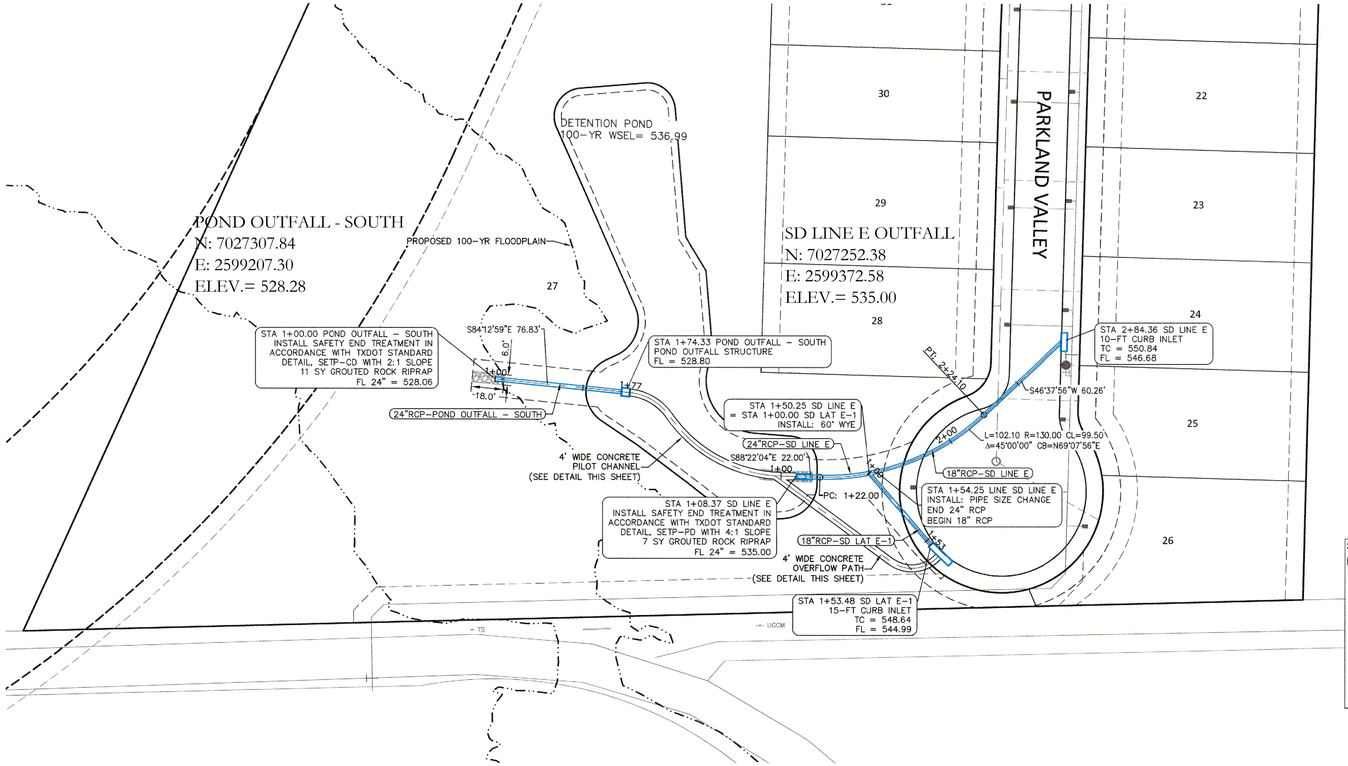
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THOMAS K. DAYTON
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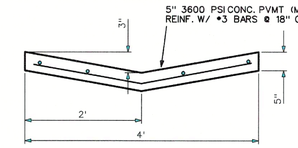
SCALE:
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1" = 4' (V)
One Inch
JVC No 502

33

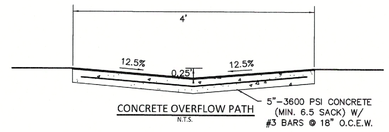
J:\civil 3d projects\mgp - michael joyce properties\mgp002 - park hills\rvc plans\dwg\sheets\construction plans\storm plan & profile.dwg

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT
NOTES ON COVER SHEET.





PILOT CHANNEL

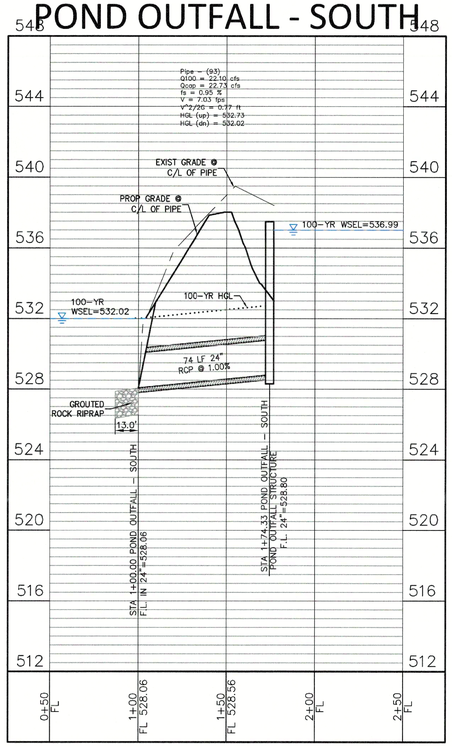


CONCRETE OVERFLOW PATH
N.T.S.

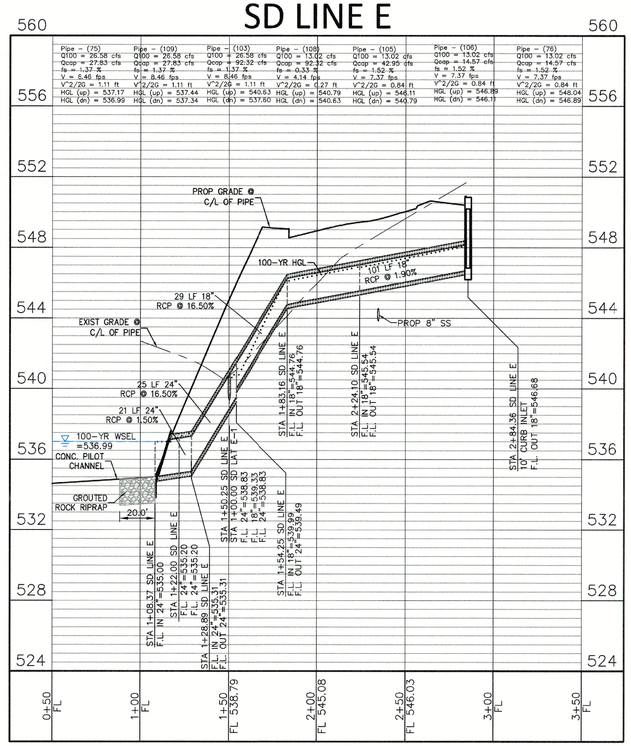


SD LINE E			From ISWM Figures 3.12-3.17		From ISWM Figures 4.2-4.3 SD LINE E	
$D50 = (v/(1.8(2g(\gamma_S-\gamma_W)/\gamma_W))^{0.5})^{0.5}$			D50			
			3.8	8" Thick, 6" Bedding		
v =	8.46	fps	5.5	12" Thick, 6" Bedding	Pipe Dia. (in.)	24
γ_S =	160	lb/ft^3	10	18" Thick, 6" Bedding	Q	26.58
γ_W =	62.4	lb/ft^3	12.5	24" Thick, 6" Bedding	V	8.46
g =	32.2	ft/s^2	17	30" Thick, 9" Bedding		
D_{50} =	**8.21**	in	24	36" Thick, 9" Bedding		
Use:	**18" Thick, 6" Bedding**				**Max. Tailwater: La**	**20**
					Max. Tailwater: W	**10**

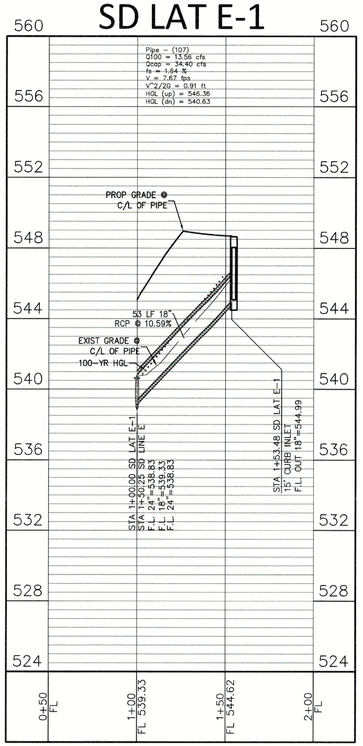
POND OUTFALL - SOUTH



SD LINE E



SD LAT E-1



LEGEND

634	EXISTING CONTOUR
642	PROPOSED CONTOUR
	PROPOSED STORM DRAIN

PROFILE LEGEND

PIPE - (30)	LINE ID
	EXISTING GRADE
	FINISHED GRADE
	HYDRAULIC GRADE LINE 100-YR/FLOW DEPTH

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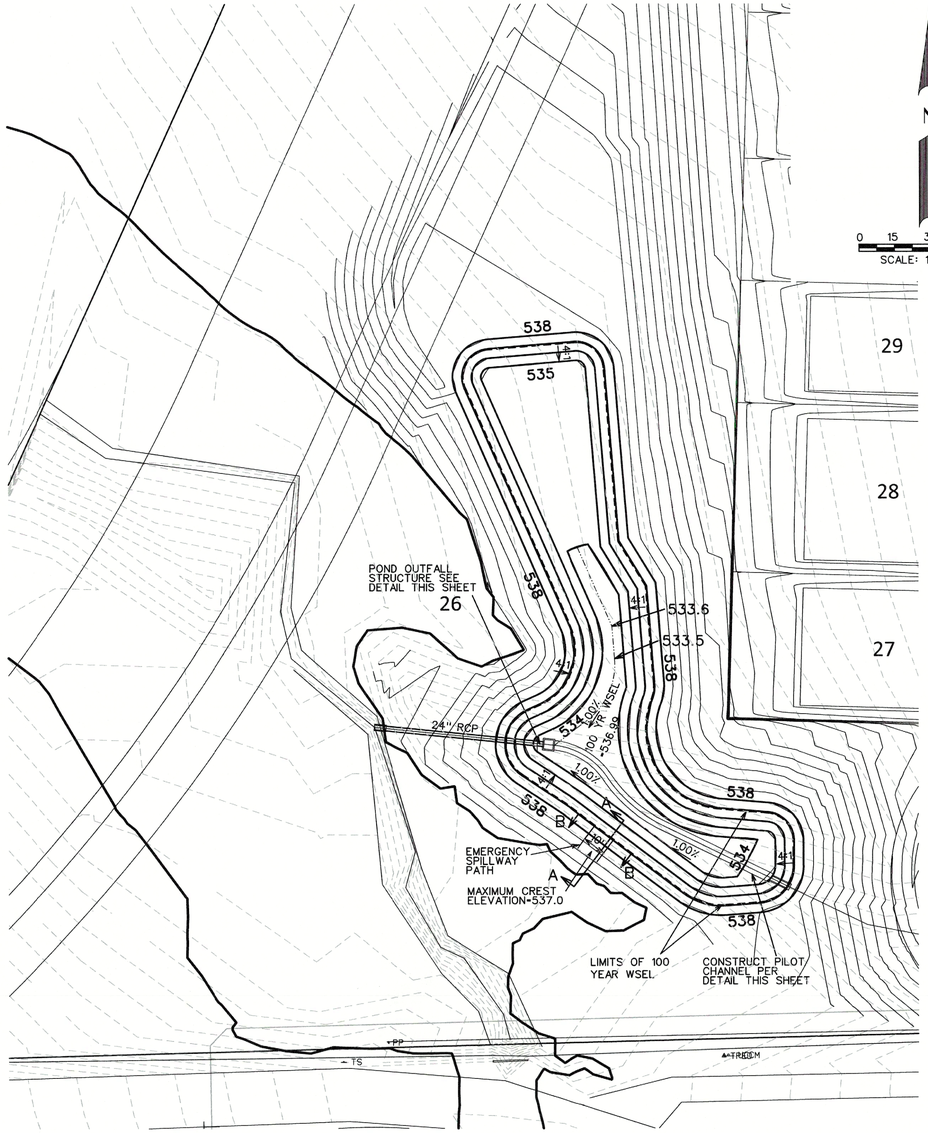
PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE - SD LINE E

STATE OF TEXAS
THOMAS K. DAYTON
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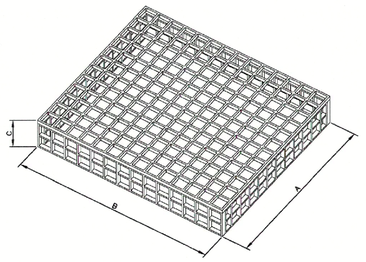
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1" = 4' (V)
One Inch
JVC No 502

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FLAT ROOF RECTANGULAR RACKS/WEIRS

(STANDARD SIZES)
DIMENSIONS IN INCHES TO THE NEAREST 1/4"



HOST STRUCTURE INSIDE DIMENSIONS
____LENGTH ____WALL THICKNESS (REQUIRED)
____WIDTH

AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY

WIDTH (A)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

LENGTH (B)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

HEIGHT (C)	7 1/2	12 7/8
CODE	01	02
	1 GRID HIGH	2 GRID HIGH

FLAT ROOF (FR) _____ WIDTH (A) _____ LENGTH (B) _____ HEIGHT (C)

CONTECH CONSTRUCTION PRODUCTS INC.
800 Standard Parkway, Suite 400
Austin, Texas 78746
Ph: 1.800.338.1122 Fax: 512.345.7388
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CUSTOMER:	DATE:
	DRAWN BY:
PROJECT:	APP'D BY:
	DETAIL:

Stage-Discharge Table Opening #1 - 1.75' w x 1' h opening Opening #2 Weir - 5.5' Long @ 536.5 10' Emergency Spillway @ 537.0

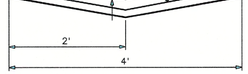
	Opening #1			Opening #2 Weir			Emergency Spillway						
	Orifice 1			Weir	Depth of Flow	Weir	Weir	Depth of Flow	Weir				Area
Stage	H	Area	Discharge	Length	Over Weir	Discharge	Length	Over Weir	Discharge	Total Discharge	Allowable Discharge	Above (Below)	
533.00	0.00	0.00	0.0							0.0			
534.00	0.50	1.75	6.0							**6.0**			
535.00	1.50	1.75	10.3							**10.3**			
536.00	2.50	1.75	13.3							**13.3**			
536.03	2.53	1.75	13.4							**13.4**	**13.4**	**0.0**	**5-year**
536.40	2.90	1.75	14.4							**14.4**	**16.1**	**(1.7)**	**10-year**
536.50	3.00	1.75	14.6							**14.6**			
536.70	3.20	1.75	15.1	**5.5**	**0.20**	**1.6**				**16.7**	**18.0**	**(1.3)**	**25-year**
536.99	3.49	1.75	15.8	**5.5**	**0.49**	**6.4**				**22.1**	**22.7**	**(0.5)**	**100-year**
537.00	3.50	1.75	15.8	**5.5**	**0.50**	**6.5**	**10.0**	**0.00**	**0.0**	**22.2**			
538.00	4.50	1.75	17.9	**5.5**	**1.50**	**33.6**	**10.0**	**1.00**	**33.3**	**84.8**			

Elevation Calculations

Event	Maximum Release Rate	Storage Requirement	Occurs at Elevation
5-year	13.4	14375	536.03
10-year	14.4	18427	536.40
25-year	16.7	20804	536.70
100-year	22.1	24727	536.99

Orifice Equation: $C*A*(2*G*H)^{0.5}$
C-Coefficient of Discharge=0.6
A - Area of opening
G - Gravitational Acceleration=32.2 ft/s^2
H - Depth of Water to Center of Opening

Weir Equation: $C*H^{(3/2)}*L$
C - Weir Coefficient=3.33
H - Depth of Flow over Weir
L - Length of Weir



PILOT CHANNEL

Elevation-Storage Table

	Volume
Elevation	(cf)
533	0
534	1274
535	5979
536	14103
537	24799
538	38169

NOTE:
NO PAVING TO BE INSTALLED UNTIL THE DETENTION SYSTEM IS CONSTRUCTED AND FULLY FUNCTIONING ALONG WITH THE BOTTOM AND SIDES OF THE DETENTION POND TO HAVE EITHER SOD OR ANCHORED SEEDED CURLEX INSTALLED.

EX1 Detention Pond

5-Year Storm
Pre-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Undeveloped
	Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)
Existing Runoff	EX1	474877	10.90	0.35	20	4.9	18.7
Bypass	OS4	135238	3.10	0.35	20	4.9	5.3
						Allowed Release=	**13.4**

Post-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Post Development	Difference between Pre and Post Development Conditions
Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)	
E1a-j,E2	385093	8.84	0.47	10	6.1	25.2	
						25.2	**11.8**

10-Year Storm
Pre-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Undeveloped
	Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)
Existing Runoff	EX1	474877	10.90	0.35	20	5.9	22.5
Bypass	OS4	135238	3.10	0.35	20	5.9	6.4
						Allowed Release=	**16.1**

Post-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Post Development	Difference between Pre and Post Development Conditions
Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)	
E1a-j,E2	385093	8.84	0.47	10	7.1	29.3	
						29.3	**13.2**

25-Year Storm
Pre-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Undeveloped
	Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)
Existing Runoff	EX1	474877	10.90	0.35	20	6.6	25.2
Bypass	OS4	135238	3.10	0.35	20	6.6	7.2
						Allowed Release=	**18.0**

Post-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Post Development	Difference between Pre and Post Development Conditions
Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)	
E1a-j,E2	385093	8.84	0.47	10	8.3	34.3	
						34.3	**16.2**

100-Year Storm
Pre-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Undeveloped
	Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)
Existing Runoff	EX1	474877	10.90	0.35	20	8.3	31.7
Bypass	OS4	135238	3.10	0.35	20	8.3	9.0
						Allowed Release=	**22.7**

Post-Project Runoff Calculations

	Area	Area	Runoff	Tc - Existing	Rainfall Intensity	Q - Post Development	Difference between Pre and Post Development Conditions
Area #	(sf)	(acres)	Coefficient	(min)	(in/hr)	(cfs)	
E1a-j,E2	385093	8.84	0.47	10	9.8	40.4	
						40.4	**17.8**

DETENTION STORAGE CALCULATIONS - 5 Year

Storm	Outflow	Area	Future	Future	Future	Rainfall	Inflow	Inflow Volume	Outflow Volume	Volume	Volume	Outflow
Duration	Duration	(AC.)	"C"	"Kf"	"CA"	intensity	(cfs)	(cubic ft.)	(cubic ft.)	(cubic ft.)	(acre-ft.)	(cfs)
10	20	8.84	0.47	1.00	4.13	6.10	25.2	15105	8042	**7063**	**0.16**	13.4
20	30	8.84	0.47	1.00	4.13	4.90	20.2	24267	12062	**12205**	**0.28**	13.4
30	40	8.84	0.47	1.00	4.13	4.10	16.9	30458	16083	**14375**	**0.33**	13.4
40	50	8.84	0.47	1.00	4.13	3.40	14.0	33677	20104	**13573**	**0.31**	13.4
50	60	8.84	0.47	1.00	4.13	2.80	11.6	34667	24125	**10543**	**0.24**	13.4
60	70	8.84	0.47	1.00	4.13	2.60	10.7	38629	28146	**10484**	**0.24**	13.4
70	80	8.84	0.47	1.00	4.13	2.40	9.9	41601	32166	**9434**	**0.22**	13.4
80	90	8.84	0.47	1.00	4.13	2.30	9.5	45563	36187	**9376**	**0.22**	13.4
90	100	8.84	0.47	1.00	4.13	2.10	8.7	46801	40208	**6593**	**0.15**	13.4
100	110	8.84	0.47	1.00	4.13	1.90	7.8	47049	44229	**2820**	**0.06**	13.4
110	120	8.84	0.47	1.00	4.13	1.80	7.4	49030	48250	**780**	**0.02**	13.4
									Maximum Storage Required=	14375	cf	

DETENTION STORAGE CALCULATIONS - 10 Year

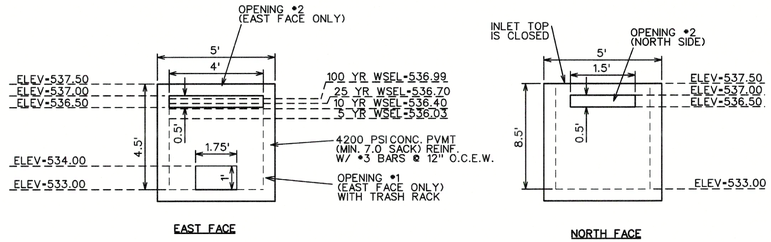
Storm	Outflow	Area	Future	Future	Future	Rainfall	Inflow	Inflow Volume	Outflow Volume	Volume	Volume	Outflow
Duration	Duration	(AC.)	"C"	"Kf"	"CA"	intensity	(cfs)	(cubic ft.)	(cubic ft.)	(cubic ft.)	(acre-ft.)	(cfs)
10	20	8.84	0.47	1.00	4.13	7.10	29.3	17581	8616	**8966**	**0.21**	14.4
20	30	8.84	0.47	1.00	4.13	5.90	24.3	29220	12923	**16296**	**0.37**	14.4
30	40	8.84	0.47	1.00	4.13	4.80	19.8	35658	17231	**18427**	**0.42**	14.4
40	50	8.84	0.47	1.00	4.13	4.00	16.5	39620	21539	**18081**	**0.42**	14.4
50	60	8.84	0.47	1.00	4.13	3.50	14.4	43334	25847	**17488**	**0.40**	14.4
60	70	8.84	0.47	1.00	4.13	3.00	12.4	44572	30154	**14418**	**0.33**	14.4
70	80	8.84	0.47	1.00	4.13	2.80	11.6	48534	34462	**14072**	**0.32**	14.4
80	90	8.84	0.47	1.00	4.13	2.60	10.7	51506	38770	**12736**	**0.29**	14.4
90	100	8.84	0.47	1.00	4.13	2.50	10.3	55716	43078	**12638**	**0.29**	14.4
100	110	8.84	0.47	1.00	4.13	2.40	9.9	59430	47385	**12045**	**0.28**	14.4
110	120	8.84	0.47	1.00	4.13	2.30	9.5	62649	51693	**10956**	**0.25**	14.4
									Maximum Storage Required=	18427	cf	

DETENTION STORAGE CALCULATIONS - 25 Year

Storm	Outflow	Area	Future	Future	Future	Rainfall	Inflow	Inflow Volume	Outflow Volume	Volume	Volume	Outflow
Duration	Duration	(AC.)	"C"	"Kf"	"CA"	intensity	(cfs)	(cubic ft.)	(cubic ft.)	(cubic ft.)	(acre-ft.)	(cfs)
10	20	8.84	0.47	1.00	4.13	8.30	34.3	20553	10027	**10526**	**0.24**	16.7
20	30	8.84	0.47	1.00	4.13	6.60	27.2	32686	15040	**17646**	**0.41**	16.7
30	40	8.84	0.47	1.00	4.13	5.50	22.7	40858	20054	**20804**	**0.48**	16.7
40	50	8.84	0.47	1.00	4.13	4.60	19.0	45563	25067	**20496**	**0.47**	16.7
50	60	8.84	0.47	1.00	4.13	4.00	16.5	49525	30081	**19444**	**0.45**	16.7
60	70	8.84	0.47	1.00	4.13	3.50	14.4	52001	35094	**16907**	**0.39**	16.7
70	80	8.84	0.47	1.00	4.13	3.30	13.6	57201	40107	**17094**	**0.39**	16.7
80	90	8.84	0.47	1.00	4.13	3.10	12.8	61411	45121	**16290**	**0.37**	16.7
90	100	8.84	0.47	1.00	4.13	2.90	12.0	64630	50134	**14496**	**0.33**	16.7
100	110	8.84	0.47	1.00	4.13	2.70	11.1	66859	55148	**11711**	**0.27**	16.7
110	120	8.84	0.47	1.00	4.13	2.50	10.3	68097	60161	**7936**	**0.18**	16.7
									Maximum Storage Required=	20804	cf	

DETENTION STORAGE CALCULATIONS - 100 Year

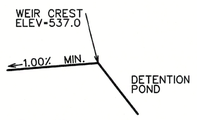
Storm	Outflow	Area	Future	Future	Future	Rainfall	Inflow	Inflow Volume	Outflow Volume	Volume	Volume	Outflow
Duration	Duration	(AC.)	"C"	"Kf"	"CA"	intensity	(cfs)	(cubic ft.)	(cubic ft.)	(cubic ft.)	(acre-ft.)	(cfs)
10	20	8.84	0.47	1.00	4.13	9.80	40.4	24267	13266	**11001**	**0.25**	22.1
20	30	8.84	0.47	1.00	4.13	8.30	34.3	41106	19899	**21207**	**0.49**	22.1
30	40	8.84	0.47	1.00	4.13	6.90	28.5	51258	26532	**24727**	**0.57**	22.1
40	50	8.84	0.47	1.00	4.13	5.80	23.9	57449	33164	**24285**	**0.56**	22.1
50	60	8.84	0.47	1.00	4.13	5.00	20.6	61906	39797	**22109**	**0.51**	22.1
60	70	8.84	0.47	1.00	4.13	4.50	18.6	66859	46430	**20428**	**0.47**	22.1
70	80	8.84	0.47	1.00	4.13	4.00	16.5	69335	53063	**16272**	**0.37**	22.1
80	90	8.84	0.47	1.00	4.13	3.70	15.3	73297	59696	**13601**	**0.31**	22.1
90	100	8.84	0.47	1.00	4.13	3.50	14.4	78002	66329	**11673**	**0.27**	22.1
100	110	8.84	0.47	1.00	4.13	3.40	14.0	84192	72962	**11231**	**0.26**	22.1
110	120	8.84	0.47	1.00	4.13	3.20	13.2	87164	79595	**7569**	**0.17**	22.1
									Maximum Storage Required=	24727	cf	



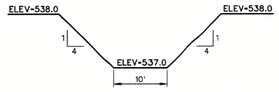
EAST FACE NORTH FACE

SPECIAL INLET OPENINGS DETAIL
N.T.S.

EMERGENCY OVERFLOW SPILLWAY ASSUMING LOWER OUTLET IS COMPLETELY CLOGGED
Q_{100}= 22.1 cfs
WIDTH OF WIER=10'
WEIR CREST ELEV=537.00
DEPTH OF FLOW OVER WEIR=0.76'
WSEL=537.76'



SECTION 'A-A'
N.T.S.



TYPICAL GRADE TO DRAIN SECTION
N.T.S.

SECTION 'B-B'
N.T.S.

EMERGENCY SPILLWAY

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
05/22/2023

CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR

PARK HILL

ROCKWALL, TEXAS

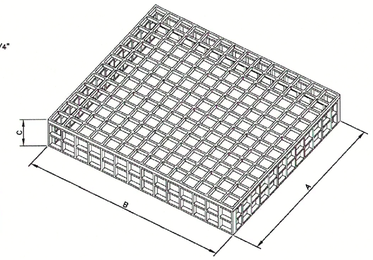
SOUTHWEST DETENTION POND PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 22040	DATE FEBRUARY 2023	SCALE: 1"=30'	34A





FLAT ROOF RECTANGULAR RACKS/WEIRS
(STANDARD SIZES)
DIMENSIONS IN INCHES TO THE NEAREST 1/4"



HOST STRUCTURE INSIDE DIMENSIONS
____LENGTH ____WALL THICKNESS (REQUIRED)
____WIDTH

AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY

WIDTH (A)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

LENGTH (B)	11 3/8	16 3/4	22 1/8	27 1/2	32 7/8	38 1/4	43 5/8	49	54 3/8	59 3/4	65 1/8	70 1/2	75 7/8	81 7/8	87 1/4
CODE	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

HEIGHT (C)	7 1/2	12 7/8
CODE	01	02
	1 GRID HIGH	2 GRID HIGH

FLAT ROOF (FR) _____ WIDTH (A) _____ LENGTH (B) _____ HEIGHT (C)

CONTECH CONSTRUCTION PRODUCTS INC.
9025 CENTRE POINTE DRIVE SUITE 400
WEST CHESTER, OH 45069
PH: 1.800.338.1122 FAX: 513.645.7388
© CONTECH

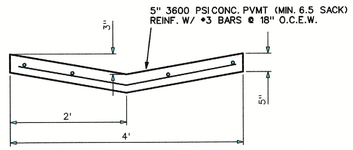
CUSTOMER:	DATE:
	DRAWN BY:
PROJECT:	APP'D BY:
	DETAIL:

Stage-Discharge Table Opening #1 - 3.2' w x 2' h opening Opening #2 Weir - 6.3' Long 511.3 35' Emergency Spillway @ 513.0

	Opening #1				Opening #2			Emergency Spillway			
	Orifice 1				Weir	Depth of Flow	Weir	Weir	Depth of Flow	Weir	Total
Stage	Tailwater	H	Area	Discharge	Length	Over Weir	Discharge	Length	Over Weir	Discharge	Discharge
507.00	507.00	0	0	0							0.0
508.00	507.81	0.50	3.20	10.9							10.9
509.00	507.91	1.00	6.40	30.8							30.8
510.00	508.02	2.00	6.40	43.6							43.6
511.00	508.12	3.00	6.40	53.4							53.4
511.30	508.16	3.30	6.40	56.0							56.0
511.50	508.20	3.50	6.40	57.7	6.3	0.20	1.9				59.5
512.00	508.42	4.00	6.40	61.6	6.3	0.70	12.3				73.9
513.00	509.32	5.00	6.40	68.9	6.3	1.70	46.5	35.0	0.00	0.0	115.4
514.00	511.03	6.00	6.40	75.5	6.3	2.70	93.1	35.0	1.00	116.6	168.6

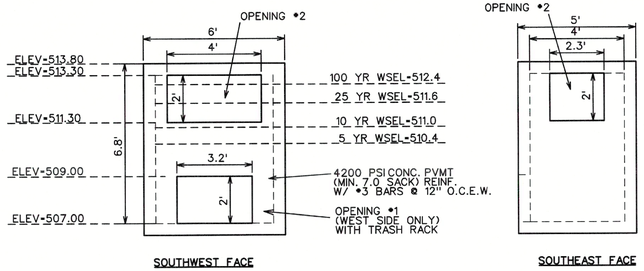
Elevation-Storage Table

	Volume	Volume
Elevation	(cf)	(ac-ft)
507	0	0.00
508	10271	0.24
509	39136	0.90
510	77870	1.79
511	119741	2.75
512	164850	3.78
513	213298	4.90
514	264499	6.07



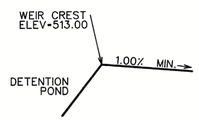
PILOT CHANNEL

NOTE:
NO PAVING TO BE INSTALLED UNTIL THE DETENTION SYSTEM IS CONSTRUCTED AND FULLY FUNCTIONING ALONG WITH THE BOTTOM AND SIDES OF THE DETENTION POND TO HAVE EITHER SOD OR ANCHORED SEEDED CURLEX INSTALLED.



SPECIAL INLET OPENINGS DETAIL
N.T.S.

EMERGENCY OVERFLOW SPILLWAY ASSUMING LOWER OUTLET IS COMPLETELY CLOGGED
Q_{100} = 92.1 cfs
WIDTH OF WIER=15', 4:1 SIDE SLOPES
WEIR CREST ELEV=513.00
DEPTH OF FLOW OVER WEIR=0.85'
WSEL=513.85'



SECTION 'A-A'
N.T.S.



TYPICAL GRADE TO DRAIN SECTION
N.T.S.

SECTION 'B-B'
N.T.S.

EMERGENCY SPILLWAY

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
05/22/2023

CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR

PARK HILL

ROCKWALL, TEXAS

NORTH DETENTION POND PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 22040	DATE FEBRUARY 2023	SCALE: 1"=30'	34B

STATE HIGHWAY NO. 66
(EXISTING 60' R.O.W)

EXISTING R.O.W

EX. FH

EX. 30" NTMWD WATERLINE

CONTRACTOR TO LOWER EXISTING NTMWD VAULT TO PROPOSED FINISHED GRADE

WL-G STA 3+66.02
INSTALL:
1 – 12" 45° HORIZ. BEND

12" PVC WL-G

EXISTING R.O.W

WL-G STA 5+77.25
END 12" WATER LINE WL-G
INSTALL:
1 – 12" PLUG
N 7029762.77
E 2599635.31

WL-G STA 1+00.00
CONNECT TO EX. 12" WATER (CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION)
INSTALL:
1–12" GATE VALVE

WL-G STA 1+33.10
INSTALL:
1 – 12" 45° HORIZ. BEND

20' WL EASEMENT

WL-G STA 3+15.49
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE

WL-G STA 3+40.86
INSTALL:
1 – 12" 45° HORIZ. BEND

WL-A STA 1+00.00
WL-G STA 4+26.73
INSTALL:
1 – 12"x 12" TEE
2 – 12" GATE VALVES

WL-A STA 1+81.07
INSTALL:
1 – 12" 45° HORIZ. BEND

20' WL EASEMENT

12" PVC WL-A

INSTALL:
105 LF TOTAL
3–4" PVC SLEEVES
PER DETAIL

WL-A STA 3+16.14
INSTALL:
1 – 12" 45° HORIZ. BEND

C-W1

PRC: 3+75.84

WL-A STA 4+22.19
INSTALL:
1 – 1.5" IRRIGATION WATER

12" PVC WL-A

WL-A STA 5+64.43
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE
1 – 12" GATE VALVE

C-W2

EX. 30" NTMWD WATERLINE

COUNTRY BROOK LANE

WL-A STA 8+59.57
WL-B STA 1+00.00
INSTALL:
1 – 12"x 12" TEE
1 – 12"x 8" REDUCER
2 – 12" GATE VALVES

WL-B STA 1+11.48
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE

R=695.5'

PCC: 1+40.65

8" PVC WL-B

R=210.5'

PRC: 2+89.30

INSTALL:
70 LF TOTAL
2–4" PVC SLEEVES
PER DETAIL

8" PVC WL-B

PCC: 3+91.07

WL-C STA 10+40.03
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE

EX. 12" WL

WL-C STA 11+54.27
INSTALL:
1 – 1.5" IRRIGATION METER

WL-C STA 12+83.92
CONNECT TO EX. 12" WL
INSTALL:
1 – 12"x 8" TAPPING SLEEVE & VALVE (CONTRACTOR SHALL FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION)
N: 7028635.85
E: 2598912.35

MYERS PARKSIDE

CONNECT 1" SERVICE TO EX. 12" WL WITH TAPPING SLEEVE AND VALVE

8" PVC WL-C

WL-B STA 5+53.73
WL-C STA 9+79.51
INSTALL:
1 – 8"x 8" TEE
2 – 8" GATE VALVES

EX. 12" WL

WL-C STA 7+19.21
LOWER W.L. @ S.D. CROSSING

WL-C STA 5+76.27
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE
1 – 8" GATE VALVE

INSTALL:
70 LF TOTAL
2–4" PVC SLEEVES
PER DETAIL

EX. 30" NTMWD WATERLINE

FUTURE S.H. 66
(VARIABLE R.O.W)

WL-A STA 12+75.18
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE
1 – 12" GATE VALVE

WL-A STA 13+36.06
INSTALL:
1 – 1" IRRIGATION METER

WL-A STA 14+03.81
LOWER W.L. @ S.D. CROSSING

WL-A STA 14+27.03
INSTALL:
1 – 12" 22.5° HORIZ. BEND

WL-A STA 11+31.63
INSTALL:
1 – 1.5" IRRIGATION METER

WL-A STA 11+35.85
INSTALL:
1 – 12" 11.25° HORIZ. BEND

WL-A STA 12+17.69
INSTALL:
1 – 12" 11.25° HORIZ. BEND

WL-A STA 13+83.17
INSTALL:
1 – 12" 22.5° HORIZ. BEND

PT: 12+88.93

PT: 2+58.06

SHADOW RIDGE ROAD

12" PVC WL-A

WL-C STA 1+00.00
WL-A STA 16+91.43
INSTALL:
1 – 12"x 8" TEE
1 – 12" GATE VALVE
1 – 8" GATE VALVE

WL-C STA 1+20.51
LOWER W.L. @ S.D. CROSSING

12" PVC WL-A

MYERS PARKSIDE

8" PVC WL-C

WL-C STA 1+68.28
INSTALL:
1 – FIRE HYDRANT ASSEMBLY
1 – 6" GATE VALVE
1 – 8" GATE VALVE

PC: 8+27.28

PT: 8+47.52

PT: 6+67.68

PRC: 5+39.77

PC: 3+98.40

R=320.5'

R=479.5'

R=560.5'

R=229.5'

MATCHLINE - SHEET 2

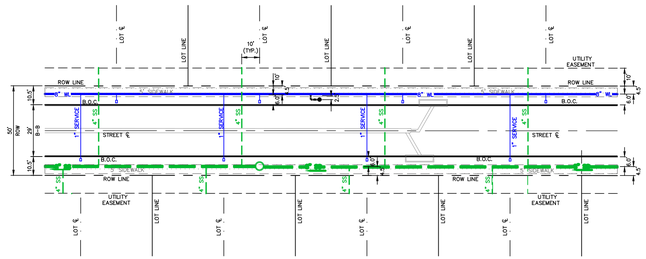
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CAUTION!!!
EXISTING UTILITIES

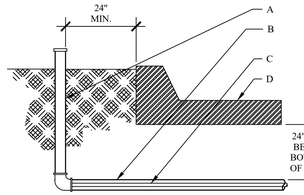
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NTMWD STANDARD NOTES:
FOR LOCATIONS WHERE PROPOSED WATER, SANITARY SEWER, STORM LINES OR PAVING CROSSES AN EXISTING NTMWD WATER LINE. CONTRACTOR SHALL REFERENCE STANDARD NTMWD CONSTRUCTION PLAN NOTES ON THE COVER SHEET OF THIS PLAN SET.

SCALE 1" = 60'



TYPICAL UTILITY PLACEMENT
NTS



IRRIGATION SLEEVES
NOT TO SCALE

GENERAL NOTES:
1. NO DIRECT CONNECTION TO SLEEVE SHALL BE ALLOWED. SLEEVE SIZE SHALL BE TWO (2) SIZES LARGER THAN THE PIPE TO BE SLEEVED.
2. MARK HARDSCAPE WITH SYMBOL "S" TO INDICATE THAT A SLEEVE IS BELOW.
3. INSTALL WIRING IN SEPARATE SLEEVE FROM LATERAL AND MAINLINE PIPING.

CONSTRUCTION NOTES:
A. TEMPORARY RISER AND CAP.
B. SCH 40 PVC IRRIGATION SLEEVE - SEE PLAN.
C. PVC MAINLINE, LATERAL OR WIRING - SEE PLAN
D. PAVING

LEGEND
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED WATER SERVICE LINE
- EXISTING WATER LINE (C-8"W)
- EXISTING FIRE HYDRANT

RECORD DRAWING

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WATER PLAN - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
12/20/2023

JVC No 502

35

C:\civil 3d projects\mp - michael joyce properties\mp502 - park hills (jvc plans (dwg's (sheet (construction plans (water plan & profile.dwg

MATCHLINE - SHEET 1

LEGEND

- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED WATER SERVICE LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT

CAUTION!!!
EXISTING UTILITIES

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PARKLAND VALLEY
PARK HILLS BOULEVARD
SHADOW RIDGE ROAD
EVENSTAR LANE
GROVEVALE COURT
OVERHILL DRIVE
FUTURE S.H. 66 (VARIABLE R.O.W)
EX. 30" NTMWD WATERLINE
12" PVC WL-A
8" PVC WL-E
8" PVC WL-F

WL–A STA 27+89.04 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 12" GATE VALVE

WL–A STA 24+23.11 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 12" GATE VALVE

WL–A STA 20+69.35 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 12" GATE VALVE

WL–D STA 1+00.00 WL–A STA 20+77.21 INSTALL: 1 – 12"x 12" TEE 1 – 12" GATE VALVE 1 – 12"x 8" REDUCER

WL–E STA 10+30.12 WL–F STA 15+83.05 INSTALL: 1 – 8"x 8" TEE 2 – 8" GATE VALVES

WL–E STA 9+05.96 WL–D STA 3+74.38 INSTALL: 1 – 8"x 8" TEE 2 – 8" GATE VALVES

WL–E STA 8+53.73 INSTALL: 1 – 6" GATE VALVE 1 – FIRE HYDRANT ASSEMBLY

WL–E STA 3+96.02 INSTALL: 1 – 8" 45° HORIZ. BEND

WL–E STA 3+75.24 INSTALL: 1 – 8" 45° HORIZ. BEND

WL–E STA 3+28.29 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 8" GATE VALVE 1 – 6" GATE VALVE

WL–E STA 1+19.92 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE

WL–A STA 32+55.88 INSTALL: 1 – 1.5" IRRIGATION METER

WL–A STA 32+68.77 WL–F STA 1+00.00 INSTALL: 1 – 12"x 8" TEE 1 – 12" GATE VALVE 1 – 8" GATE VALVES

WL–A STA 32+48.89 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE

WL–E STA 1+00.00 WL–F STA 4+35.65 INSTALL: 1 – 8"x 8" TEE 2 – 8" GATE VALVES

WL–F STA 4+44.18 INSTALL: 1 – 1" IRRIGATION METER

WL–F STA 8+16.87 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 8" GATE VALVE

WL–F STA 15+28.28 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE

WL–F STA 11+69.97 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 6" GATE VALVE

WL–F STA 11+64.20 INSTALL: 1 – 8" 45° HORIZ. BEND

WL–F STA 11+42.49 INSTALL: 1 – 8" 45° HORIZ. BEND

INSTALL: 1 – 16" PLUG TP = 532.40

INSTALL: 120 LF 16" WATERLINE

INSTALL: 1 – 16" PLUG TP = 533.60

INSTALL: 195 LF TOTAL 3–4" PVC SLEEVES PER DETAIL

INSTALL: 70 LF TOTAL 2–4" PVC SLEEVES PER DETAIL

WL–E STA 14+90.76 INSTALL: 1 – 1.5" IRRIGATION METER

WL–E STA 15+18.51 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 8" GATE VALVE

WL–E STA 15+21.51 INSTALL: 1 – 16"x 8" TEE

WL–F STA 15+62.55 LOWER W.L. STORM CROSSING

WL–A STA 37+60.00 INSTALL: 1 – FIRE HYDRANT ASSEMBLY 1 – 6" GATE VALVE 1 – 12" GATE VALVE

WL–A STA 38+25.97 INSTALL: 1 – 1" IRRIGATION METER

WL–A STA 38+59.26 INSTALL: 1 – 12" 45° HORIZ. BEND

WL–A STA 38+67.89 INSTALL: 1 – 12" 45° HORIZ. BEND

WL–A STA 42+64.88 INSTALL: 1 – 12" 45° HORIZ. BEND

WL–A STA 42+33.13 INSTALL: 1 – 12" 45° HORIZ. BEND

WL–A STA 43+04.22 CONNECT TO EX. 12" WATER (CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION) INSTALL: 1–12"x 12" TEE 1–12" GATE VALVE

RECORD DRAWING

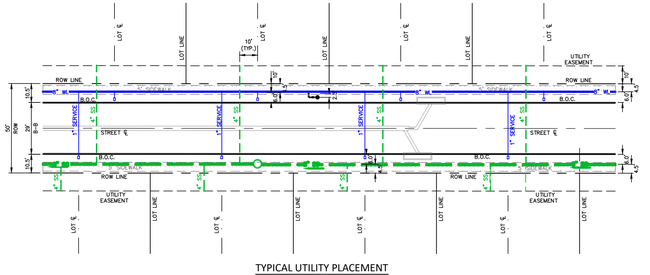
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N

60 30 0 60

SCALE 1" = 60'



TYPICAL UTILITY PLACEMENT
NTS

NTMWD STANDARD NOTES:

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WATER CURVE DATA

Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C–W1	14°54'22"	229.50	59.71	S10°40'56"E	59.54
C–W2	39°51'01"	695.50	483.73	S01°47'24"W	474.04
C–W3	17°47'06"	229.50	71.24	S79°34'22"E	70.95
C–W4	35°44'25"	270.50	168.73	S73°39'53"W	166.01
C–W5	92°31'11"	274.50	443.25	S45°16'30"W	396.64
C–W6	2°37'02"	270.50	12.36	S00°19'26"W	12.35

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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WATER PLAN - SHEET 2 OF 2

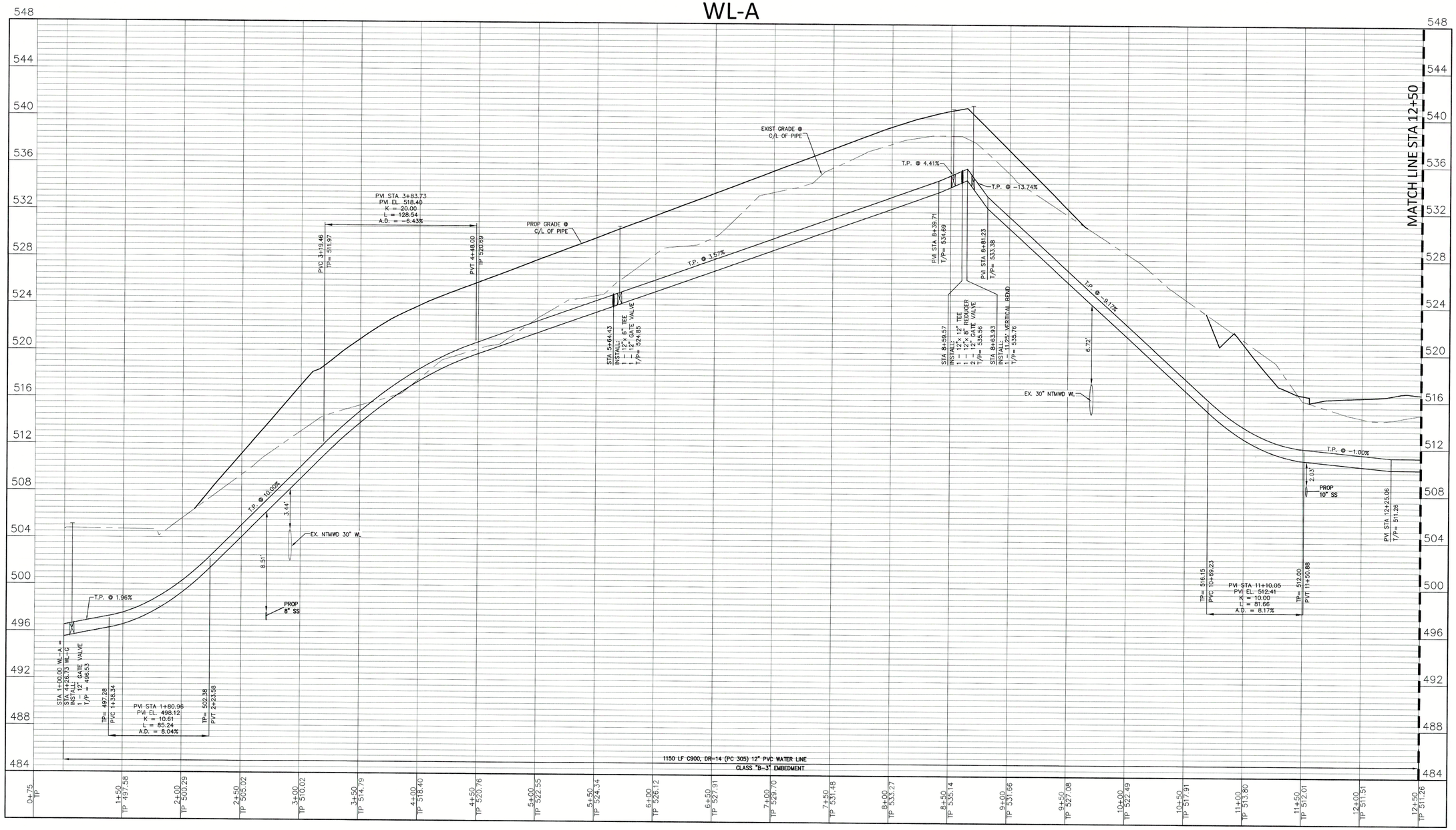
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
04/04/2024

JVC No 502

36

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WL-A



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7104 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

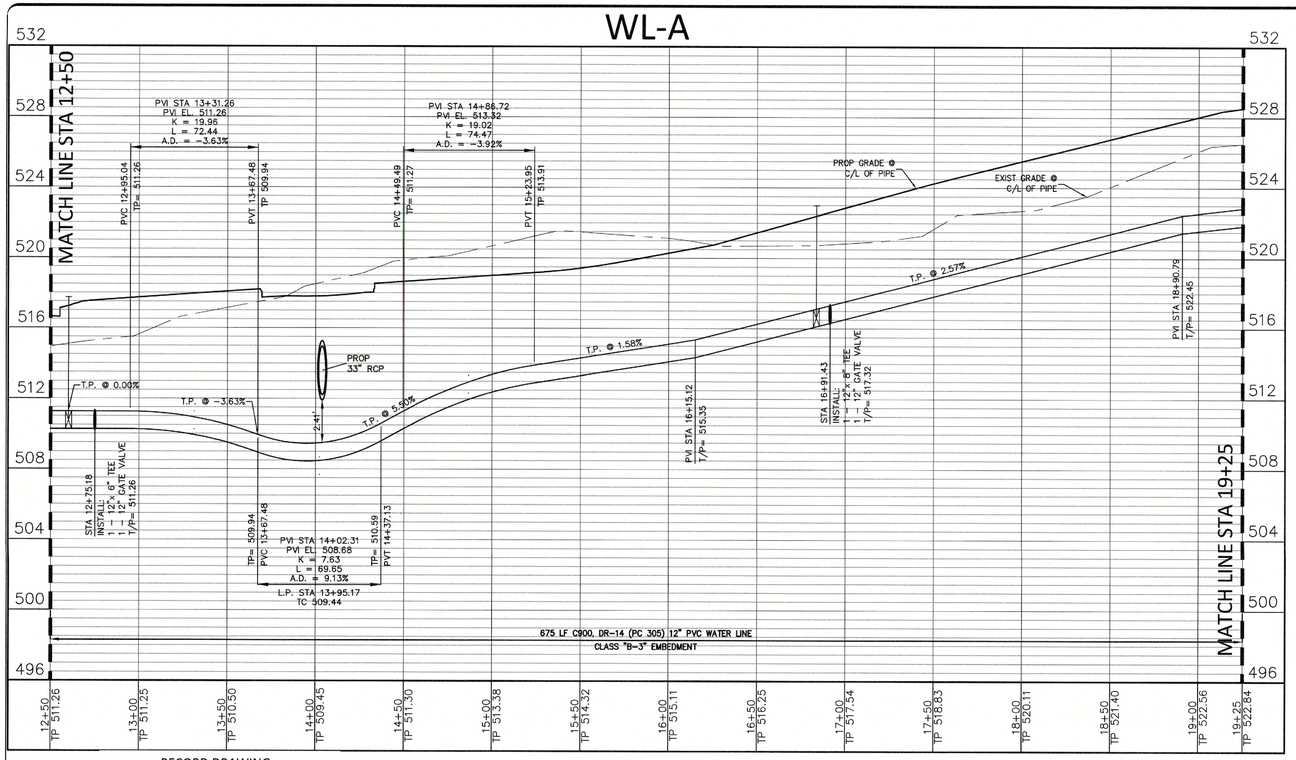
WATER LINE PROFILE - 12 INCH MAIN

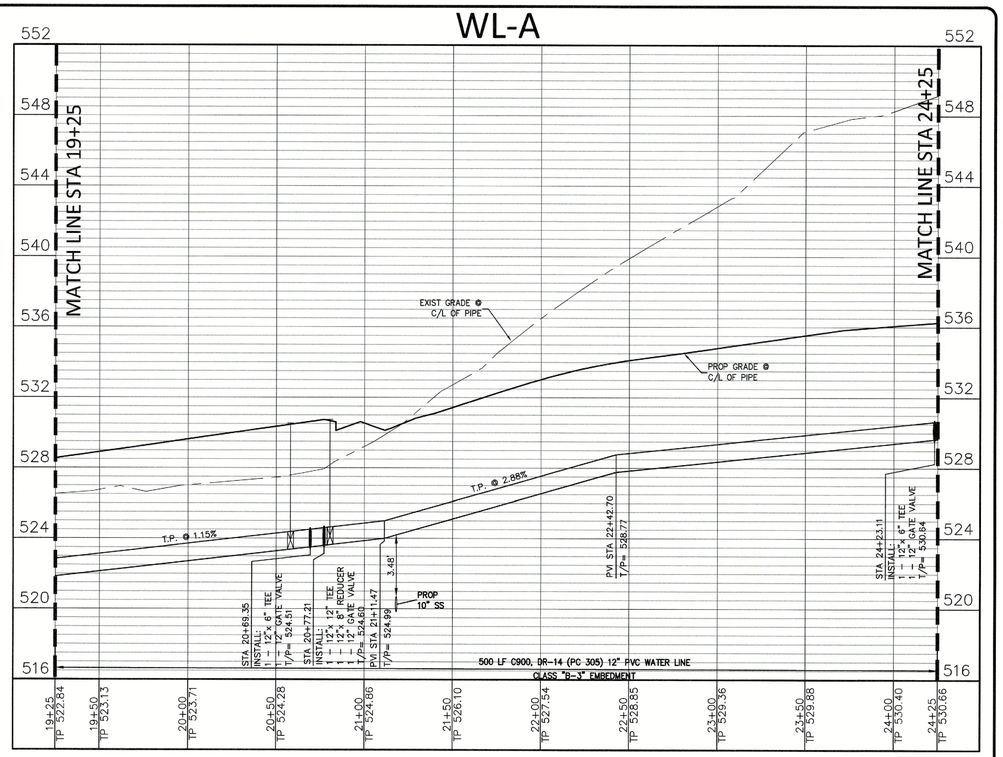
STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/19/2023

SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

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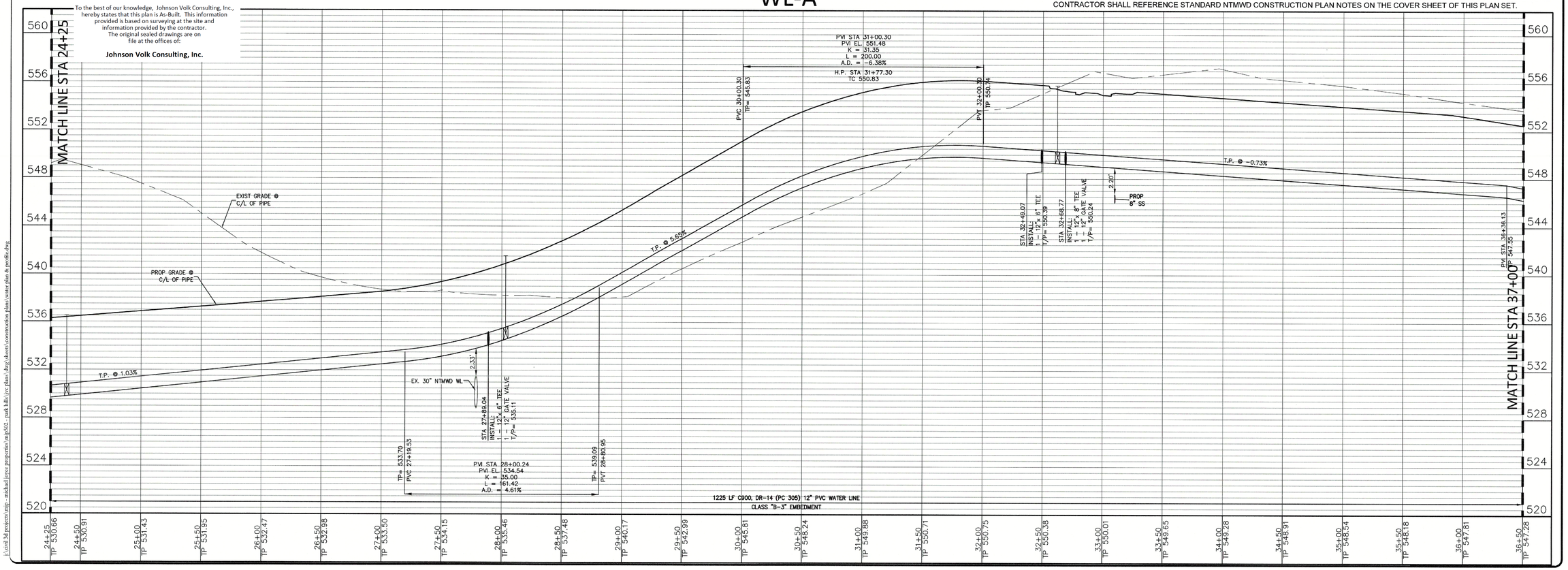


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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WATER LINE PROFILE - 12 INCH MAIN

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

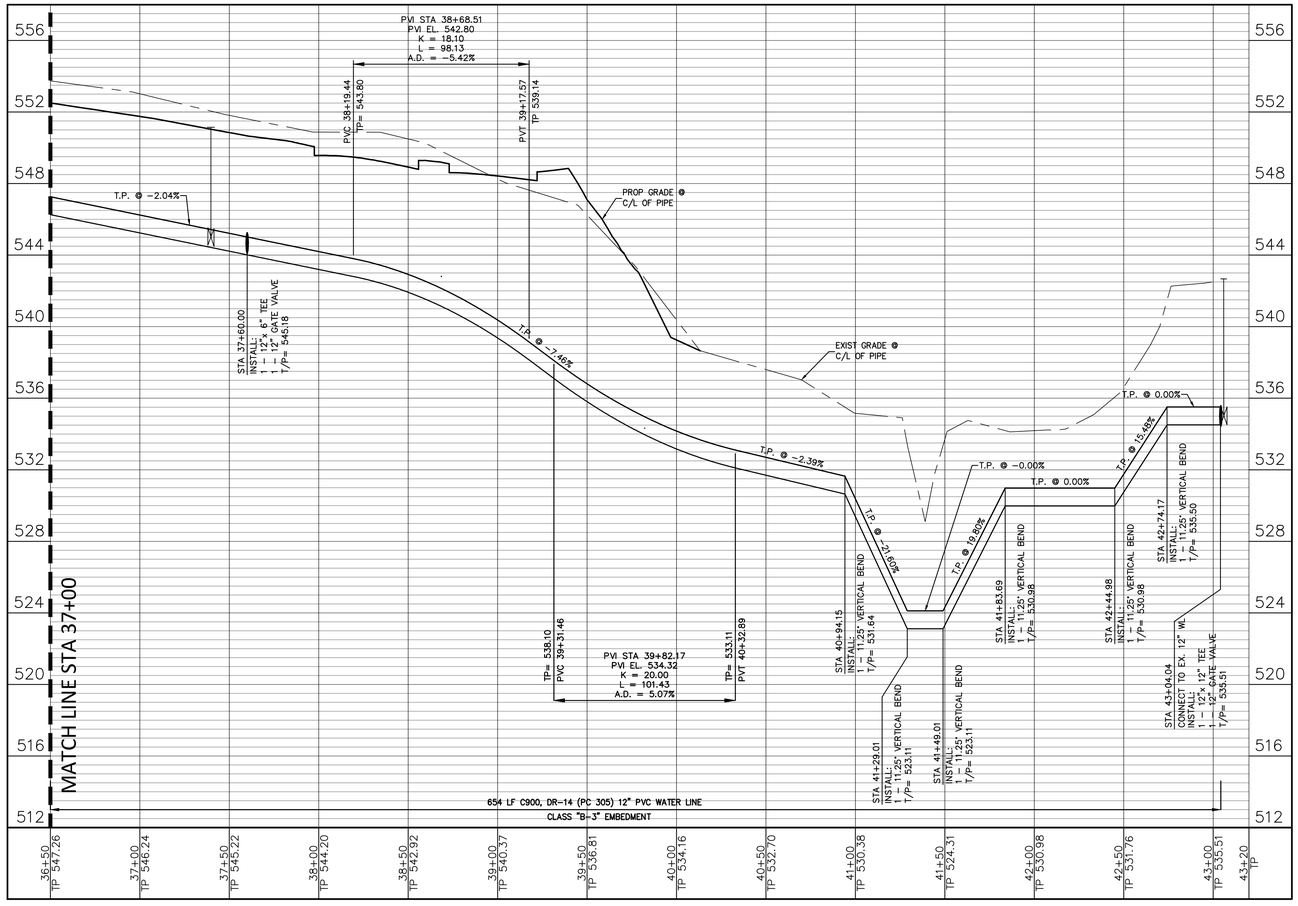
SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

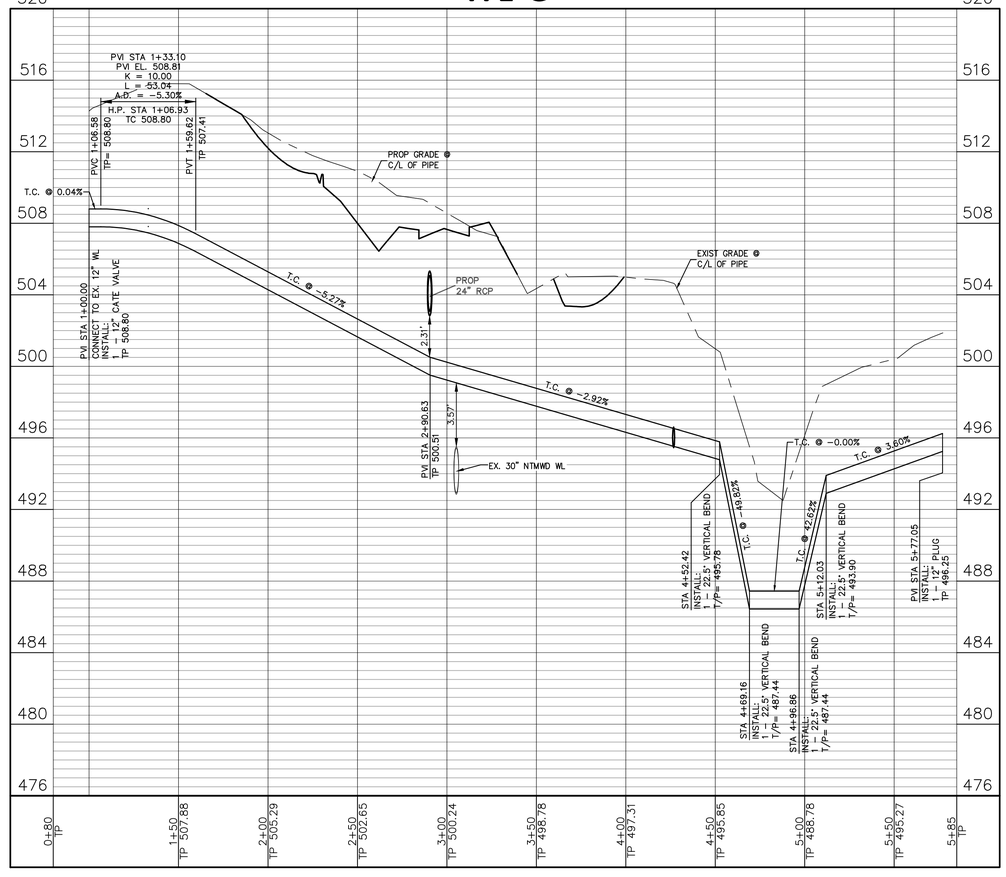
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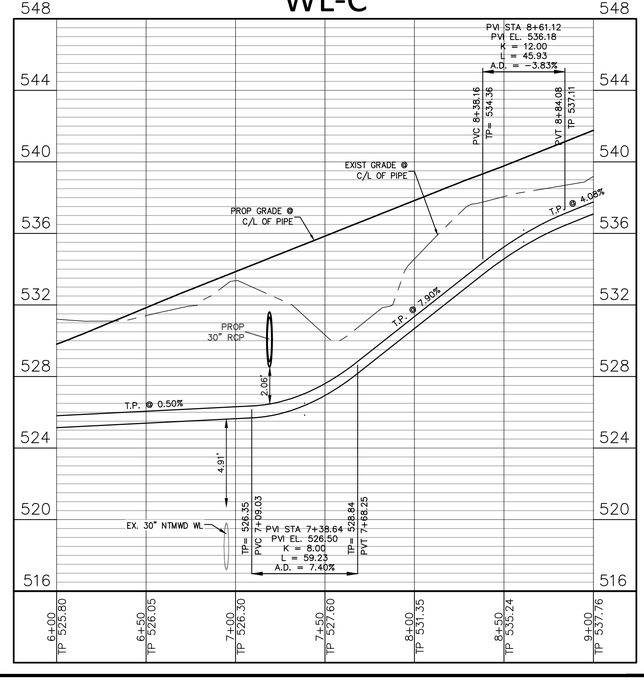
WL-A



WL-G



WL-C



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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WATER LINE PROFILE - 12 INCH MAIN

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
09/05/2023

SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch

JVC No 502

39

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STATE HIGHWAY NO. 66
(EXISTING 60' R.O.W)

STA 1+00.00 SS A
CONNECT TO EXIST 6' DIA SSMH
F.L. IN = 10" 495.82 (E)
F.L. OUT = 12" 495.32 (N)

10" PVC SS A

STA 4+07.85 SS A=
STA 1+00.00 SS B
CONSTRUCT 6' INTERNAL DROP SSMH
RIM = 513.87
F.L. IN = 10" 505.84 (S)
F.L. IN = 8" 496.75 (E)
F.L. OUT = 10" 496.59 (W)

8" PVC SS B

PROP 45' UE

PC: 4+32.02

PRC: 5+28.56

STA 3+85.41 SS B
CONSTRUCT 4' STD SSMH
RIM = 502.03
F.L. OUT = 8" 497.69 (W)

10" PVC SS A

STA 7+79.87 SS A=
STA 1+00.00 SS C
CONSTRUCT 6' INTERNAL DROP SSMH
RIM = 532.63
F.L. IN = 10" 506.87 (SE)
F.L. IN = 8" 525.71 (S)
F.L. OUT = 10" 506.77 (N)

PT: 7+79.87

STA 2+33.80 SS C
CONSTRUCT 5' STD SSMH
RIM = 538.00
F.L. OUT = 8" 531.20 (N)

10" PVC SS A

PROP 20' UE

STA 9+35.19 SS A
CONSTRUCT 5' STD SSMH
RIM = 529.26
F.L. IN = 10" 507.36 (SE)
F.L. OUT = 10" 507.26 (NW)

PC: 11+37.73

STA 11+37.73 SS A
CONSTRUCT 5' STD SSMH
RIM = 520.61
F.L. IN = 10" 507.97 (SE)
F.L. OUT = 10" 507.87 (NW)

EXIST. 30" NTMWD WL

L=192.48 R=226.75 CL=186.75
Δ=48°38'08" CB=N63°40'32"W

10" PVC SS A

STA 14+24.12 SS A
CONSTRUCT 4' STD SSMH
RIM = 518.34
F.L. IN = 10" 508.78 (SE)
F.L. OUT = 10" 508.68 (W)

PT: 13+90.27

STA 3+02.17 SS E
CONSTRUCT 4' STD SSMH
RIM = 544.00
F.L. OUT = 8" 536.52 (S)

8" PVC SS E

STA 12+96.81 SS D
CONSTRUCT 4' STD SSMH
RIM = 552.04
F.L. OUT = 8" 544.04 (E)

L=17.64 R=279.50 CL=17.64
Δ=3°37'01" CB=N89°26'22"W

L=138.85 R=520.50 CL=138.44
Δ=15°17'05" CB=N84°43'36"E

10" PVC SS A

STA 17+29.80 SS A=
STA 1+00.00 SS D
CONSTRUCT 6' INTERNAL DROP SSMH
RIM = 523.19
F.L. IN = 10" 510.25 (SE)
F.L. IN = 8" 515.85 (SW)
F.L. OUT = 10" 510.15 (NW)

L=49.63 R=500.00 CL=49.61
Δ=5°41'15" CB=S88°24'15"E

PC: 12+47.18

8" PVC SS D

STA 10+03.71 SS D=
STA 1+00.00 SS E
CONSTRUCT 4' STD SSMH
RIM = 545.31
F.L. IN = 8" 535.83 (W)
F.L. IN = 8" 535.83 (N)
F.L. OUT = 8" 535.73 (E)

PT: 8+28.48

PC: 8+10.84

8" PVC SS D

STA 6+51.24 SS D
CONSTRUCT 4' STD SSMH
RIM = 532.58
F.L. IN = 8" 523.74 (W)
F.L. OUT = 8" 523.64 (E)

PT: 6+51.24

PRC: 5+12.36

L=131.02 R=519.50 CL=130.68
Δ=14°27'02" CB=S84°18'34"W

PC: 3+81.36

8" PVC SS D

STA 3+81.36 SS D
CONSTRUCT 4' STD SSMH
RIM = 526.44
F.L. IN = 8" 519.32 (W)
F.L. OUT = 8" 519.22 (E)

PT: 2+41.01

L=141.01 R=230.00 CL=138.81
Δ=35°07'41" CB=N73°58'15"E

8" PVC SS D

10" PVC SS A

COUNTRY BROOK LANE

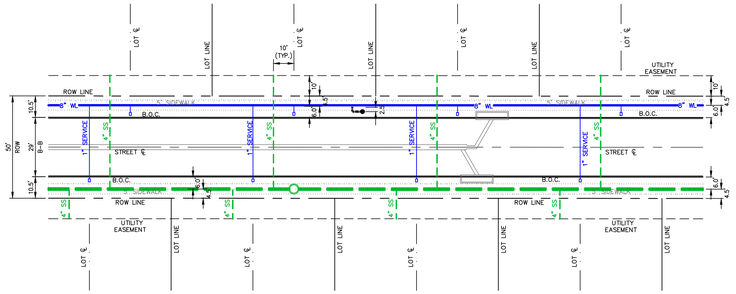
SHADOW RIDGE ROAD

MYERS PARKSIDE

MYERS PARKSIDE

FUTURE S.H. 66
(VARIABLE R.O.W)

MATCH LINE - SHEET 2 OF 2



TYPICAL UTILITY PLACEMENT
NTS

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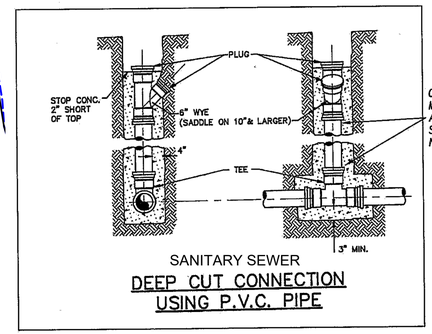
NOTES:

CONTRACTOR SHALL APPLY RAVEN COAT 405 EPOXY LINER, CONSHIELD LINER, OR APPROVED EQUAL IN ALL PROPOSED SANITARY SEWER MANHOLES AND EXISTING SANITARY SEWER MANHOLES MODIFIED WITH THESE CONSTRUCTION PLANS.

BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.61' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE NORTHEAST SIDE OF MIMS ROAD AT THE SOUTHERLY END OF A CONCRETE HEADWALL AT THE INTERSECTION OF THE NORTHEAST LINE OF MIMS ROAD WITH THE SOUTHEAST LINE OF I-30.
ELEVATION = PLAN 565.98' FIELD 566.02'



CONTRACTOR TO INSTALL MEGALUG OR APPROVED EQUAL AT WYE AND TEE CONNECTION SO THAT SERVICE PIPE DOES NOT SLIP INTO MAIN LINE FLOW

SANITARY SEWER
DEEP CUT CONNECTION
USING P.V.C. PIPE

* = DEEP SERVICE CONNECTION REQUIRED

NTMWD STANDARD NOTES:
FOR LOCATIONS WHERE PROPOSED WATER, SANITARY SEWER, STORM LINES OR PAVING CROSSES AN EXISTING NTMWD WATER LINE. CONTRACTOR SHALL REFERENCE STANDARD NTMWD CONSTRUCTION PLAN NOTES ON THE COVER SHEET OF THIS PLAN SET.

RECORD DRAWING

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Johnson Volk Consulting, Inc.

NORTH

60 30 0 60

SCALE 1" = 60'

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN - SHEET 1 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
12/20/2023

JVC No 502

40

J:\civil 3d projects\mip - michael joyce properties\mip502 - park hills\cive plans\dwg\sheets\construction plans\sewer plan.dwg

MATCH LINE - SHEET 1 OF 2

PARKLAND VALLEY

PARK HILLS BOULEVARD

SHADOW RIDGE ROAD

EVENSTAR LANE

GROVE VALE COURT

OVERHILL DRIVE

FUTURE S.H. 66 (VARIABLE R.O.W.)

STA 5+50.00 SS F
CONSTRUCT 4' STD SSMH
RIM = 537.61
F.L. IN = 8" 529.67 (W)
F.L. OUT = 8" 529.57 (E)

8" PVC SS F

L=135.10 R=229.50 CL=133.15
Δ=33°43'39" CB=N74°40'16"E

L=210.28 R=315.50
CL=206.41
Δ=38°11'18"
CB=S72°26'26"W

STA 20+40.59 SS A=
STA 1+00.00 SS F
CONSTRUCT 6' INTERNAL
DROP SSMH
RIM = 529.90
F.L. IN = 10" 519.74 (SE)
F.L. IN = 8" 522.07 (SW)
F.L. OUT = 10" 519.64 (NW)

PC: 20+72.62

L=140.45 R=334.50 CL=139.42
Δ=24°03'27" CB=N22°10'36"W

PRC: 22+13.07

10" PVC SS A

L=75.91 R=440.50 CL=75.82
Δ=9°52'27" CB=S15°05'06"E

PT: 23+88.98

STA 3+41.80 SS I
INSTALL 8" PLUG
F.L. OUT = 8" 522.09 (SE)

PI: 2+90.80

STA 2+90.80 SS I
CONSTRUCT 4' STD SSMH
RIM = 527.84
F.L. IN = 8" 521.92 (NW)
F.L. OUT = 8" 521.82 (SW)

8" PVC SS I

PRC: 25+11.33

PCC: 25+70.37

STA 10+38.62 SS F
CONSTRUCT 6' INTERNAL
DROP SSMH
RIM = 552.04
F.L. IN = 8" 541.27 (S)
F.L. OUT = 8" 538.50 (N)

EXIST. 30" NTMWD WL

STA 6+35.81 SS H
CONSTRUCT 4' STD SSMH
RIM = 548.99
F.L. IN = 8" 540.14 (S)
F.L. OUT = 8" 540.04 (E)

PI: 6+72.08

L=36.27 R=225.00 CL=36.23
Δ=9°14'10" CB=S3°49'36"W

8" PVC SS H

STA 3+99.49 SS H
CONSTRUCT 4' STD SSMH
RIM = 544.33
F.L. IN = 8" 536.50 (W)
F.L. OUT = 8" 536.40 (E)

L=299.49 R=850.50
CL=297.95
Δ=20°10'33"
CB=N81°26'49"E

STA 23+86.98 SS A=
STA 1+00.00 SS H
CONSTRUCT 6' INTERNAL
DROP SSMH
RIM = 534.90
F.L. IN = 10" 520.70 (E)
F.L. IN = 8" 524.42 (W)
F.L. OUT = 10" 520.60 (N)

STA 25+11.33 SS A=
STA 1+00.00 SS I
CONSTRUCT 4' STD SSMH
RIM = 530.86
F.L. IN = 8" 521.19 (NE)
F.L. IN = 10" 521.11 (SE)
F.L. OUT = 10" 521.01 (SW)

L=59.04 R=225.00 CL=58.87
Δ=15°02'07" CB=N31°17'25"W

L=238.04 R=554.50 CL=236.21
Δ=24°35'46" CB=N11°28'28"W

PT: 28+08.41

L=10.48 R=229.50
CL=10.48
Δ=2°37'02"
CB=S0°19'26"W

STA 13+30.50 SS F=
STA 1+00.00 SS G
CONSTRUCT 6' INTERNAL
DROP SSMH
RIM = 555.39
F.L. IN = 8" 544.29 (E)
F.L. IN = 8" 542.33 (S)
F.L. OUT = 8" 542.23 (N)

8" PVC SS G

STA 3+14.93 SS G
CONSTRUCT 4' STD SSMH
RIM = 561.59
F.L. OUT = 8" 553.53 (W)

STA 35+45.11 SS A
CONSTRUCT 4' STD SSMH
RIM = 560.42
F.L. OUT = 10" 551.88 (E)

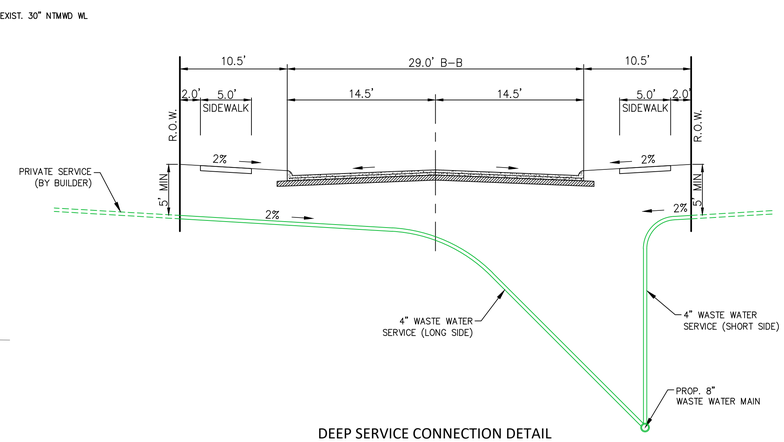
STA 32+36.13 SS A
CONSTRUCT 4' STD SSMH
RIM = 543.20
F.L. IN = 10" 533.34 (W)
F.L. OUT = 10" 533.24 (E)

STA 29+22.23 SS A
CONSTRUCT 4' STD SSMH
RIM = 535.68
F.L. IN = 10" 526.96 (W)
F.L. OUT = 10" 526.86 (N)

STA 8+28.34 SS H
CONSTRUCT 4' STD SSMH
RIM = 559.08
F.L. OUT = 8" 551.30 (N)

STA 18+30.50 SS F
CONSTRUCT 4' STD SSMH
RIM = 549.36
F.L. OUT = 8" 543.98 (N)

EXIST. 30" NTMWD WL



DEEP SERVICE CONNECTION DETAIL
N.T.S.

NORTH
60 30 0 60
SCALE 1" = 60'

CAUTION!!!
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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN - SHEET 2 OF 2

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
12/20/2023

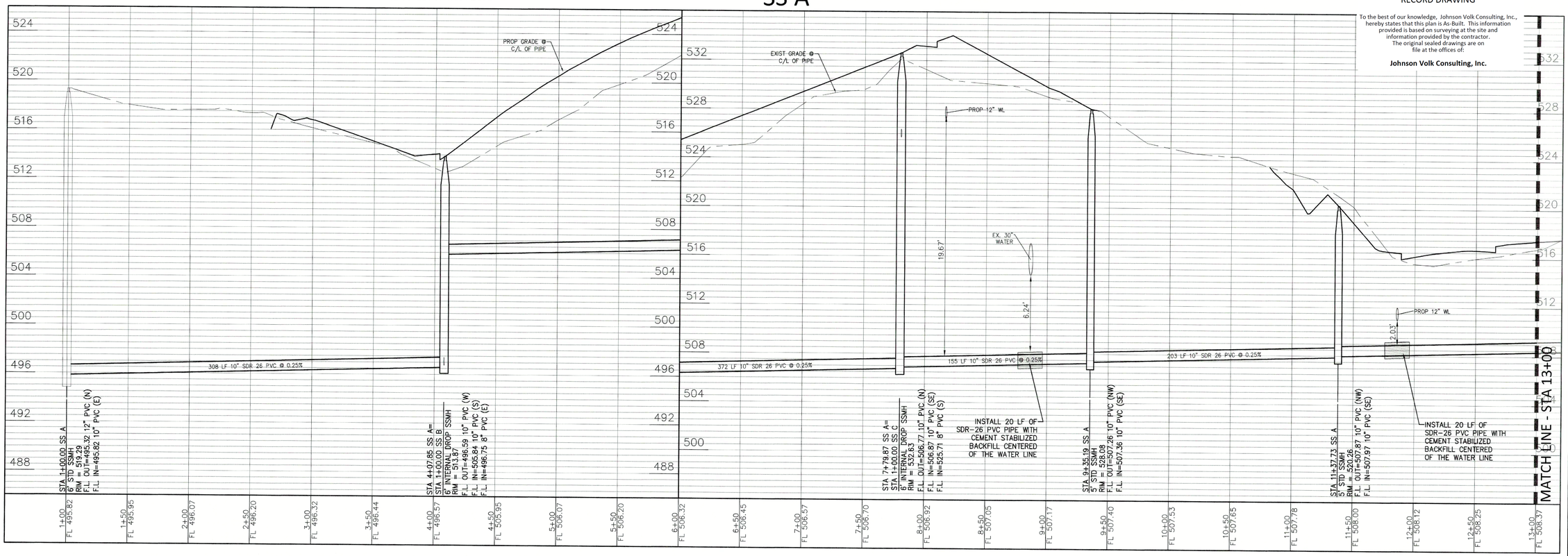
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41

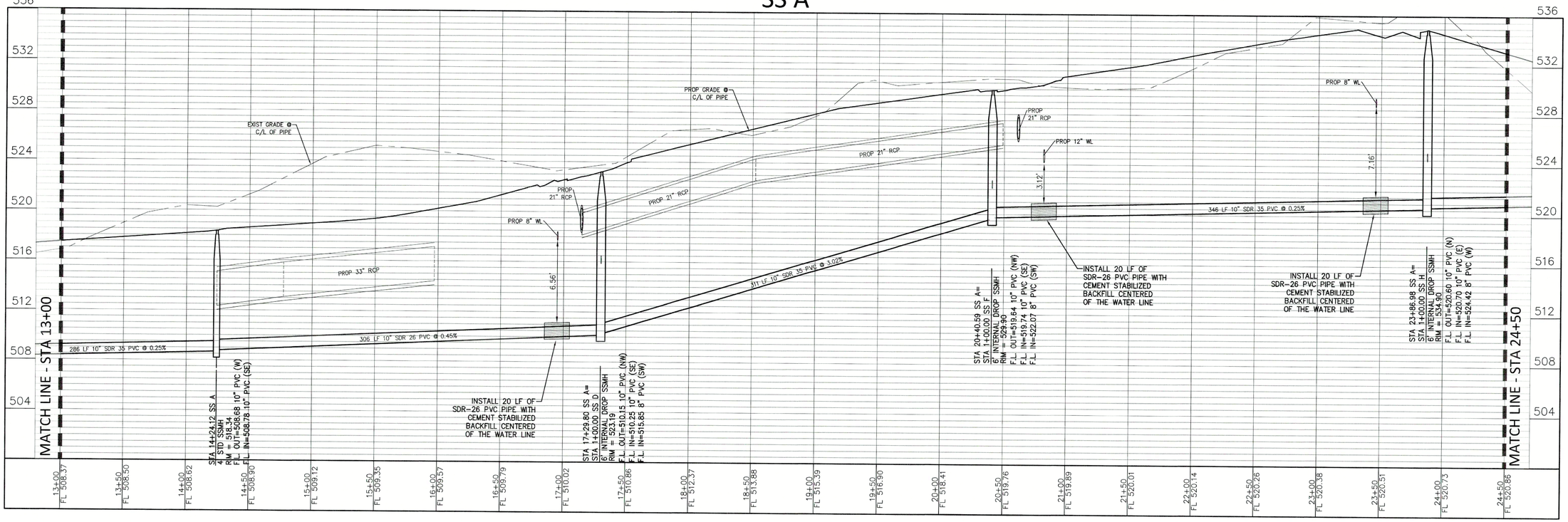
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SS A



SS A



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PARK HILLS
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ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN & PROFILE - SS-A

STATE OF TEXAS
THOMAS K. DAYTON
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LICENSED
PROFESSIONAL ENGINEER
05/19/2023

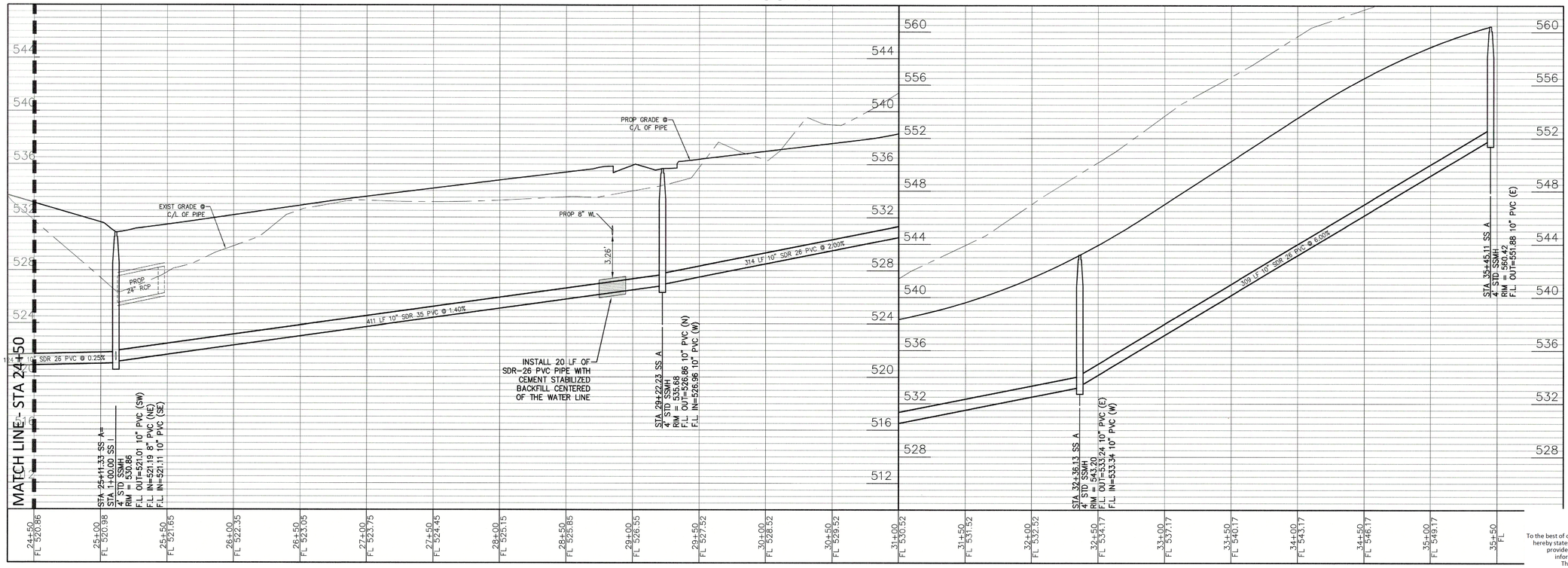
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1" = 4' (V)
One Inch

JVC No 502

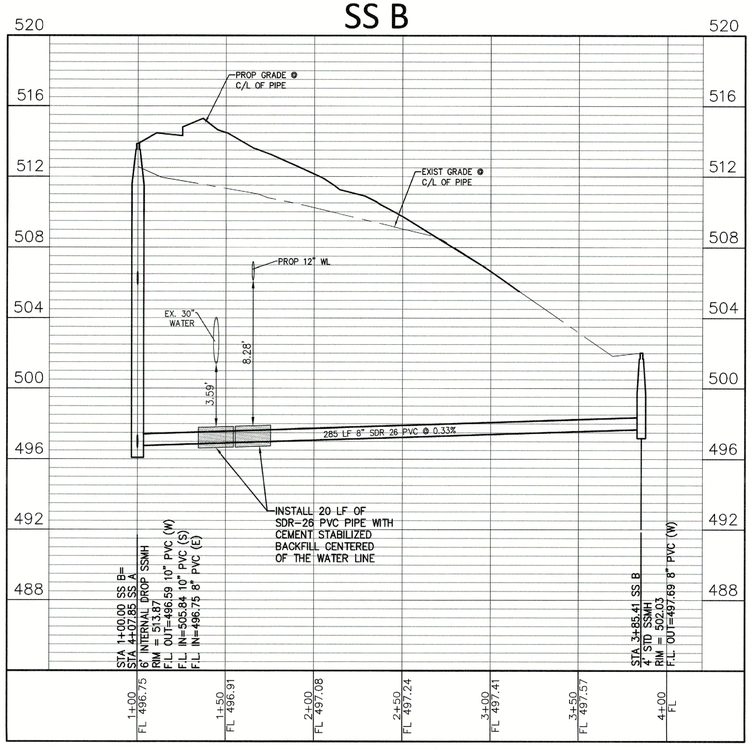
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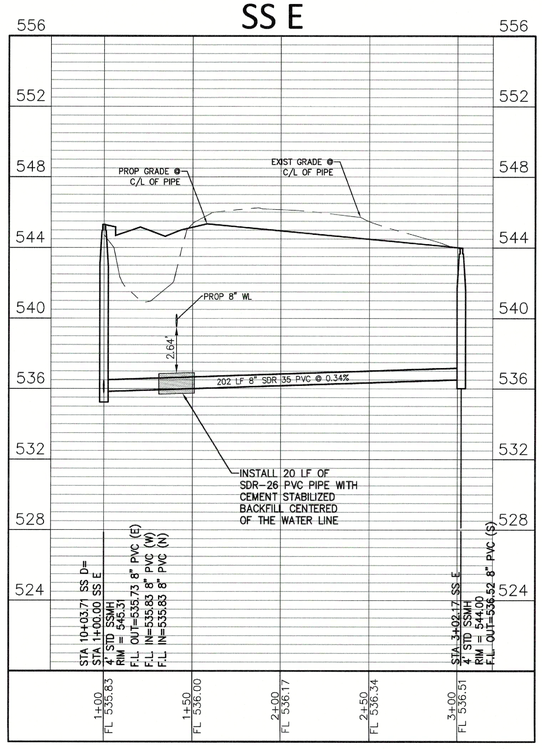
SS A



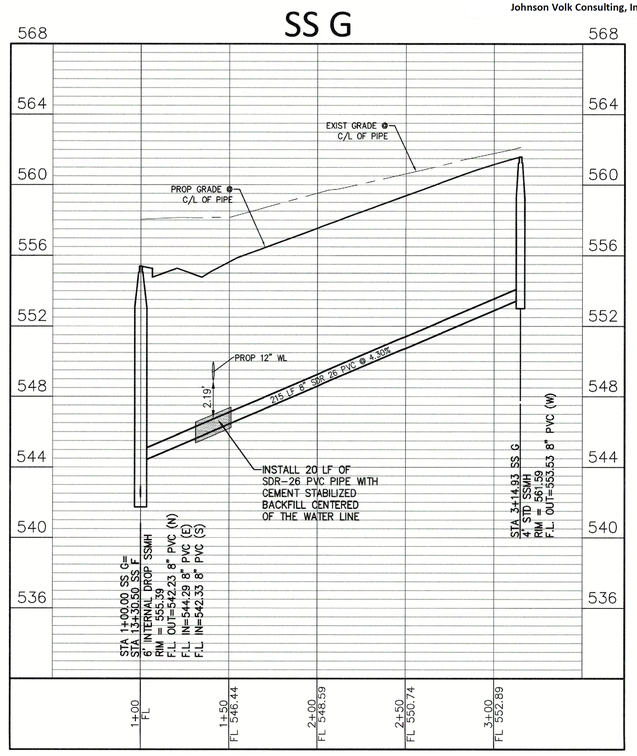
SS B



SS E



SS G



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PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN & PROFILE - SS-B SS-E & SS-G

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

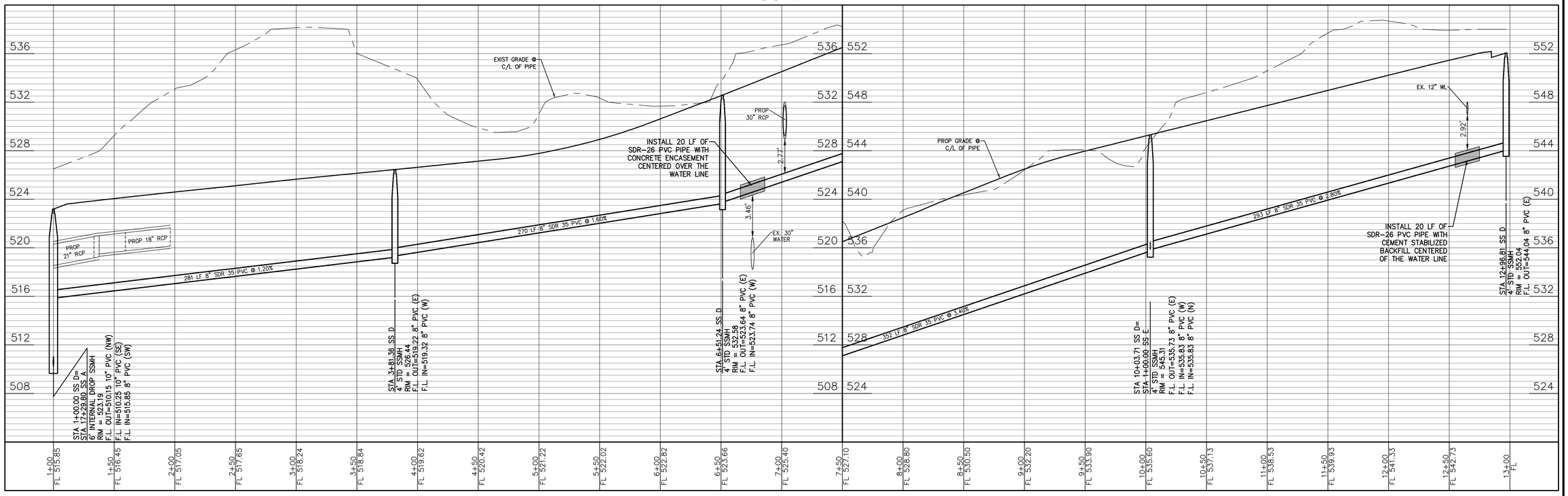
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One Inch

JVC No 502

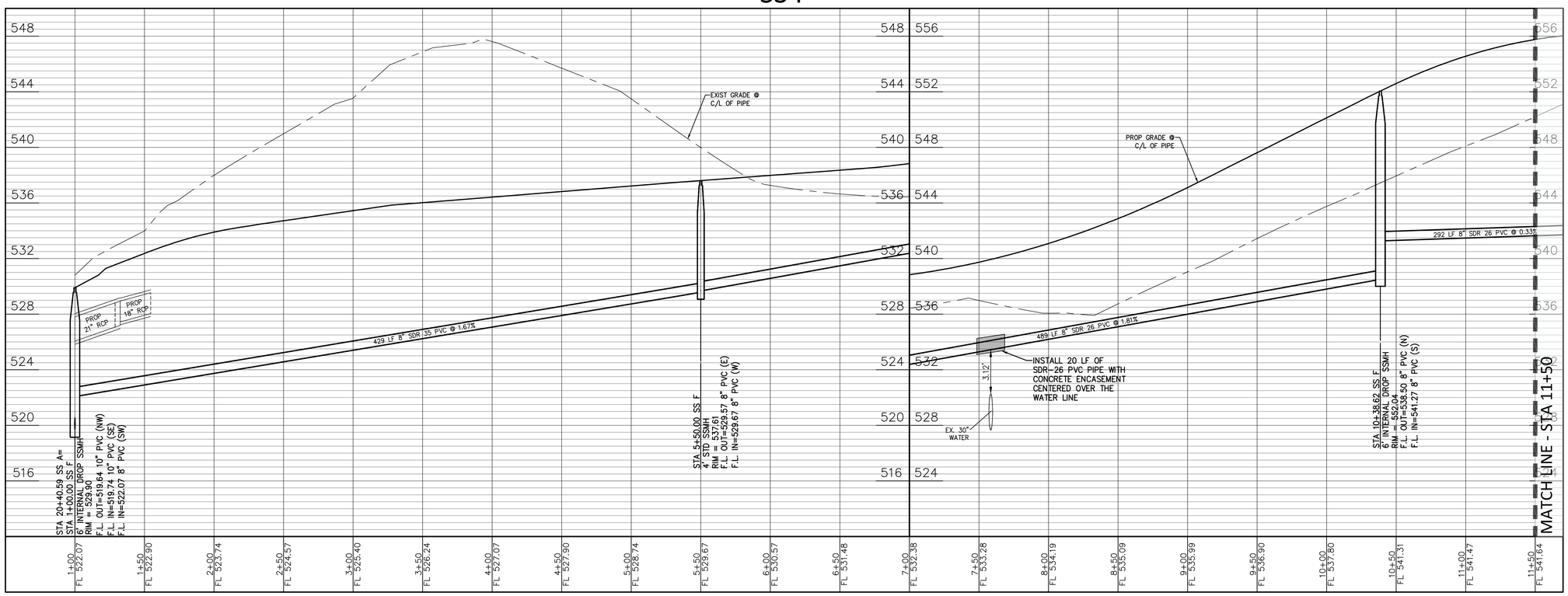
43

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SS D



SS F



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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN & PROFILE - SS-D & SS-F

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
11/17/2023

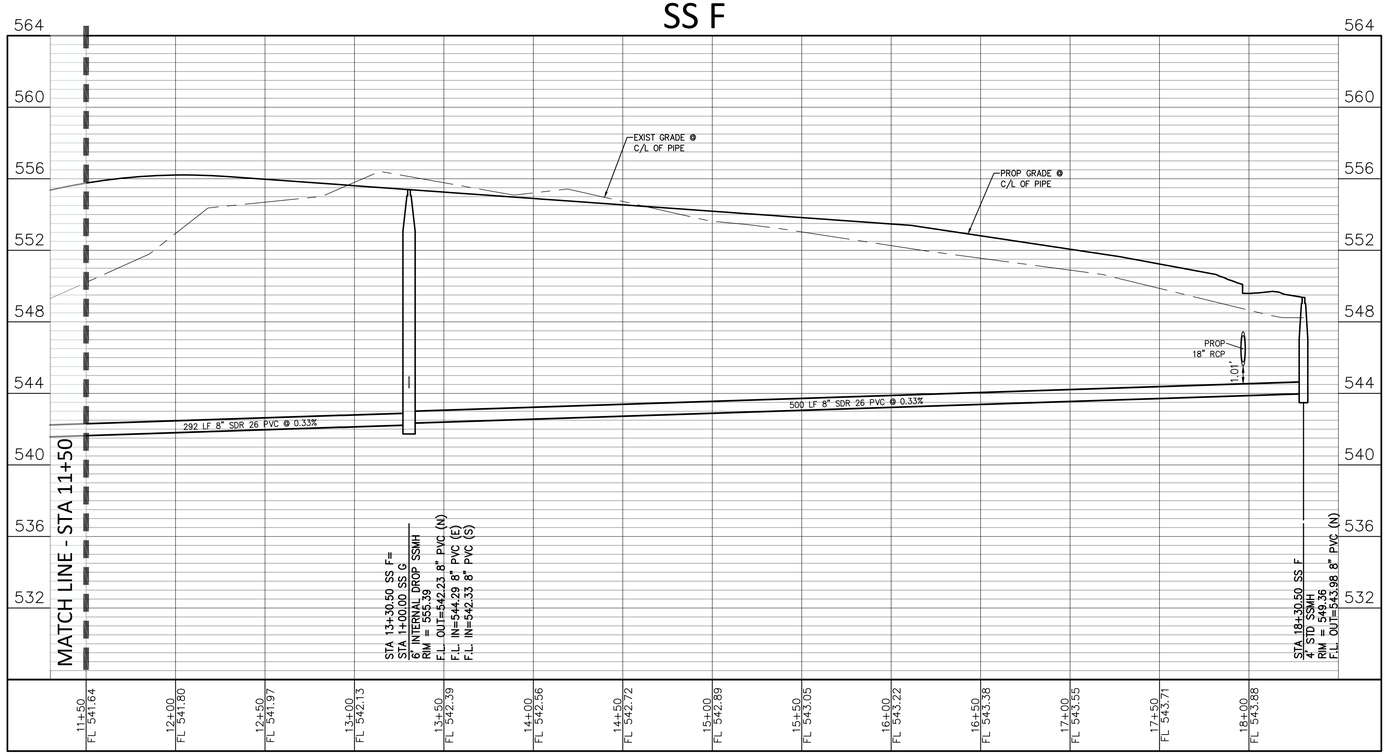
SCALE:
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1" = 4' (V)
One Inch

JVC No 502

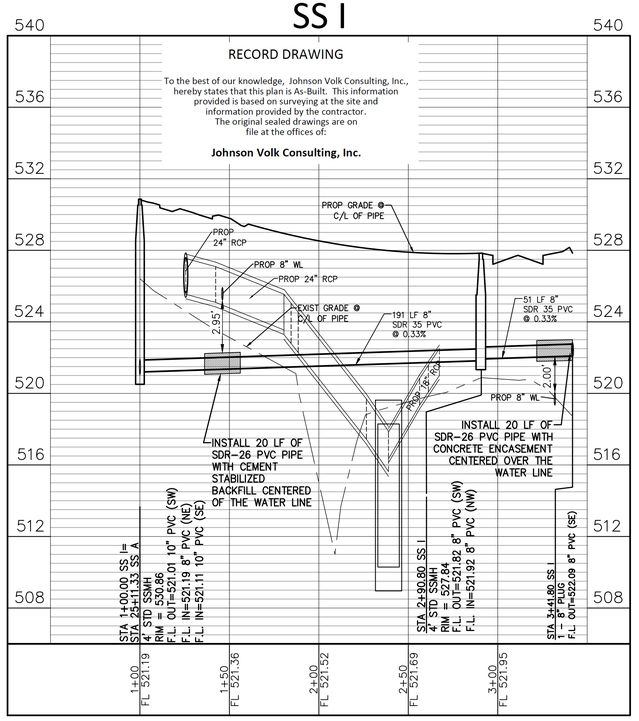
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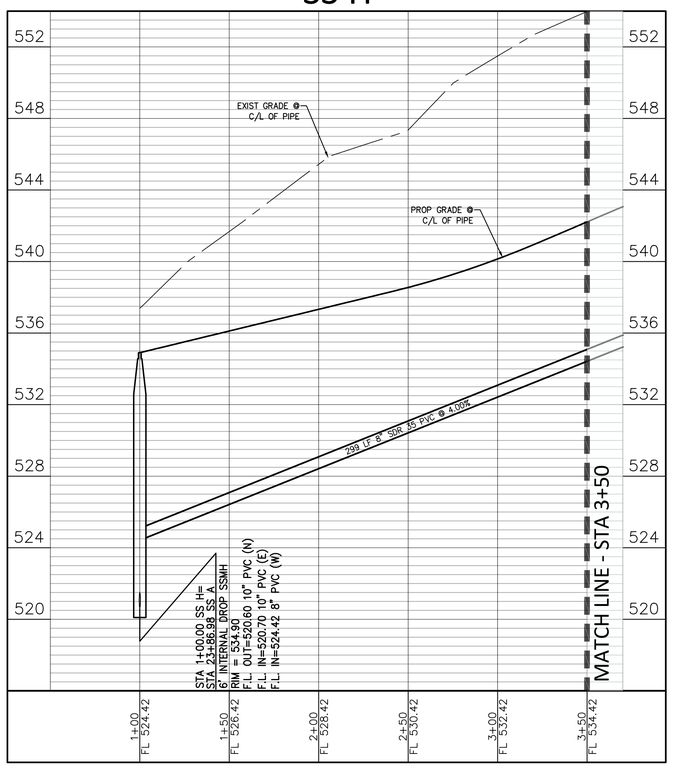
SS F



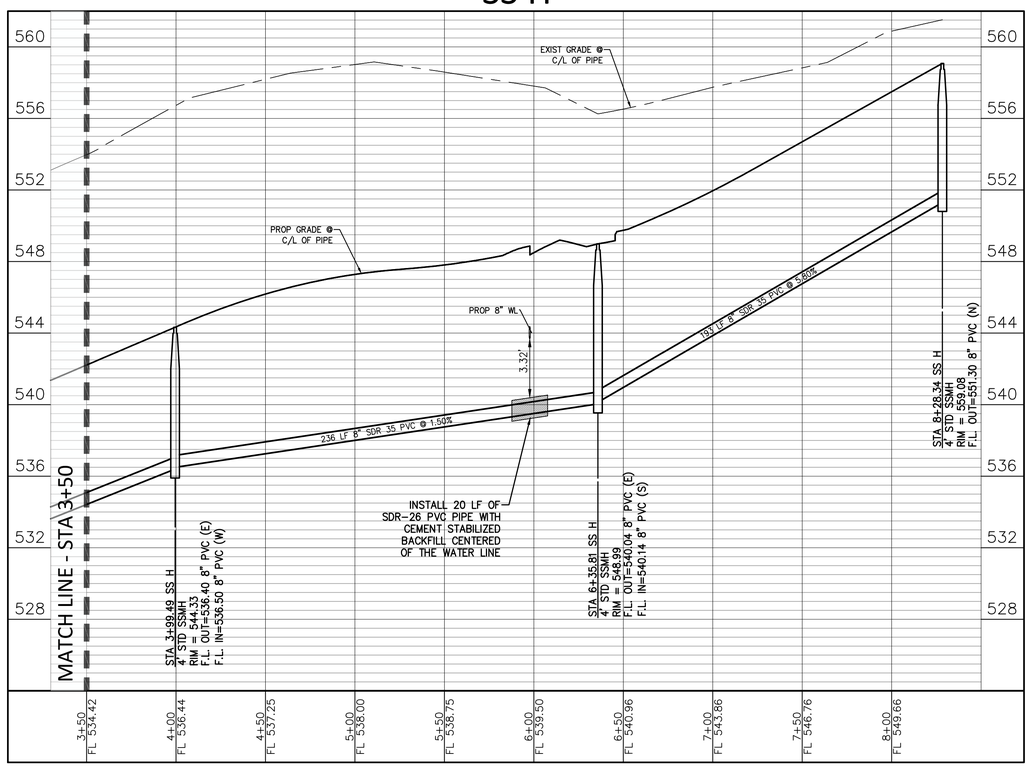
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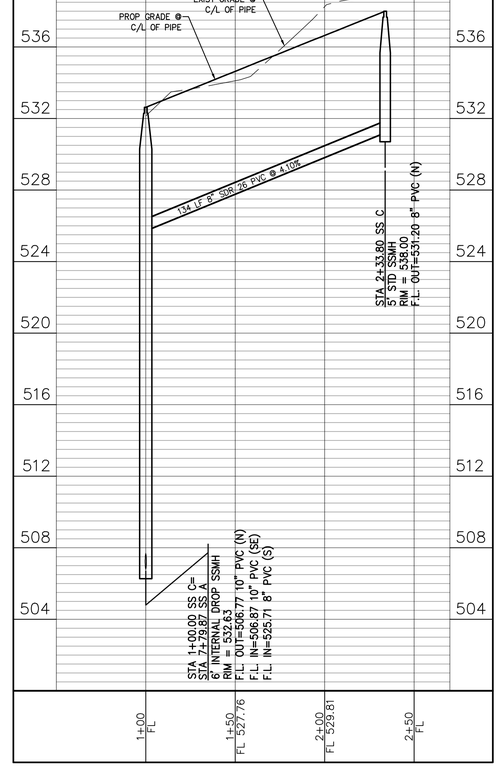
SS H



SS H



SS C



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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER PLAN & PROFILE - SS-C SS-H & SS-I

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
08/07/2023

SCALE:
1" = 40' (H)
1" = 4' (V)
One Inch
JVC No 502

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100 50 0 100

SCALE 1" = 100'

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CAUTION!!!

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PARK HILLS
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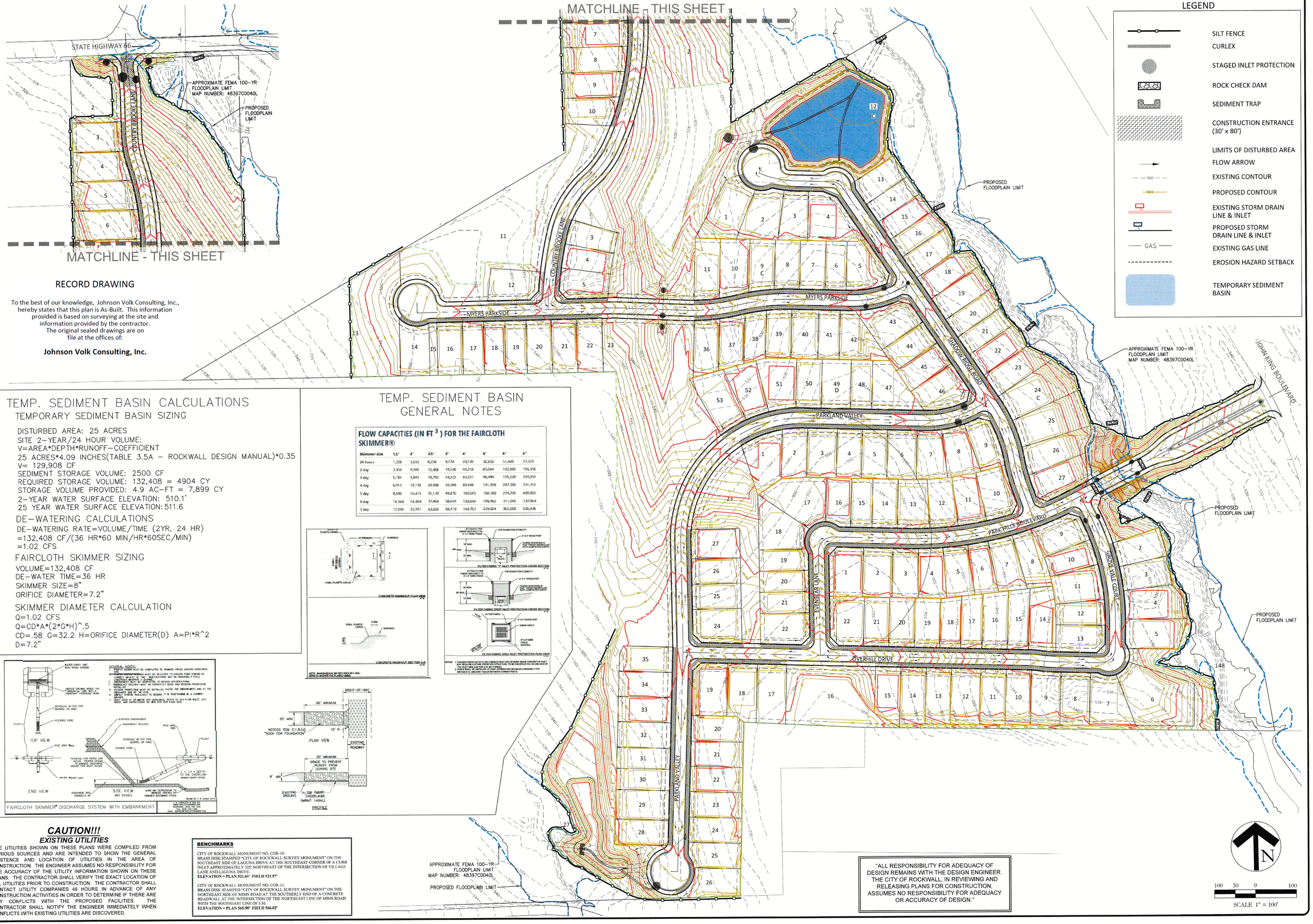
LIGHTING & SIGNAGE PLAN

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/22/2023

JVC No 502

46

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TEMP. SEDIMENT BASIN CALCULATIONS

TEMPORARY SEDIMENT BASIN SIZING

DISTURBED AREA: 25 ACRES
SITE 2-YEAR/24 HOUR VOLUME:
V=AREA*DEPTH*RUNOFF-COEFFICIENT
25 ACRES*4.09 INCHES(TABLE 3.5A - ROCKWALL DESIGN MANUAL)*0.35
V= 129,908 CF
SEDIMENT STORAGE VOLUME: 2500 CF
REQUIRED STORAGE VOLUME: 132,408 = 4904 CY
STORAGE VOLUME PROVIDED: 4.9 AC-FT = 7,899 CY
2-YEAR WATER SURFACE ELEVATION: 510.1'
25 YEAR WATER SURFACE ELEVATION: 511.6

DE-WATERING CALCULATIONS

DE-WATERING RATE=VOLUME/TIME (2YR, 24 HR)
=132,408 CF/(36 HR*60 MIN/HR*60SEC/MIN)
=1.02 CFS

FAIRCLOTH SKIMMER SIZING

VOLUME=132,408 CF
DE-WATER TIME=36 HR
SKIMMER SIZE=8"
ORIFICE DIAMETER=7.2"

SKIMMER DIAMETER CALCULATION

Q=1.02 CFS
Q=CD*A*(2*G*H)^.5
CD=.58 G=32.2 H=ORIFICE DIAMETER(D) A=PI*R^2
D=7.2"

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT

TEMP. SEDIMENT BASIN GENERAL NOTES

FLOW CAPACITIES (IN FT³) FOR THE FAIRCLOTH SKIMMER®

Skimmer size	1.5"	2"	2.5"	3"	4"	5"	6"	8"
24 hours	1,728	3,283	6,234	9,734	20,109	32,832	51,840	97,978
2 day	3,456	6,566	12,468	19,548	40,218	65,664	103,680	195,956
3 day	5,184	9,849	18,702	29,322	60,327	98,496	155,520	293,934
4 day	6,912	13,132	24,936	39,096	80,436	131,328	207,360	391,912
5 day	8,640	16,415	31,170	48,870	100,545	164,160	259,200	489,890
6 day	10,368	19,698	37,404	58,644	120,654	196,992	311,040	587,868
7 day	12,096	22,981	43,638	68,418	140,763	229,824	362,880	685,846

CAUTION!!!
EXISTING UTILITIES

THE UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

BENCHMARKS

CITY OF ROCKWALL MONUMENT NO. COR-10:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTHEAST SIDE OF LAGUNA DRIVE AT THE SOUTHEAST CORNER OF A CURB INLET APPROXIMATELY 325' NORTHEAST OF THE INTERSECTION OF VILLAGE LANE AND LAGUNA DRIVE.
ELEVATION = PLAN 521.61' FIELD 521.57'

CITY OF ROCKWALL MONUMENT NO. COR-11:
BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE NORTHEAST SIDE OF MIMS ROAD AT THE SOUTHERLY END OF A CONCRETE HEADWALL AT THE INTERSECTION OF THE NORTHEAST LINE OF MIMS ROAD WITH THE SOUTHEAST LINE OF I-30.
ELEVATION = PLAN 565.98' FIELD 566.02'

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.5100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

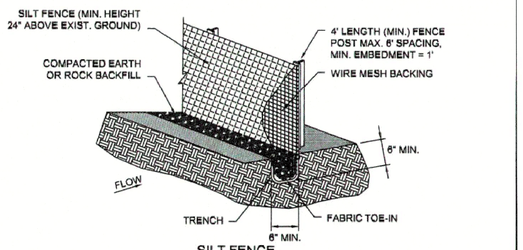
EROSION CONTROL PLAN

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/22/2023

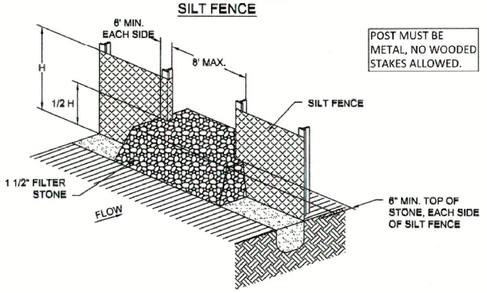
JVC No 502

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SILT FENCE



STONE OVERFLOW STRUCTURE

SILT FENCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.5 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1020A

SILT FENCE GENERAL NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

5. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

8. FILTER STONE SHALL BE WRAPPED IN FILTER FABRIC AND BURIED SIX (6") INCHES MINIMUM.

SILT FENCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.5 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1020B

ROCK CHECK DAM GENERAL NOTES:

1. STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1½ TO 3½ INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.

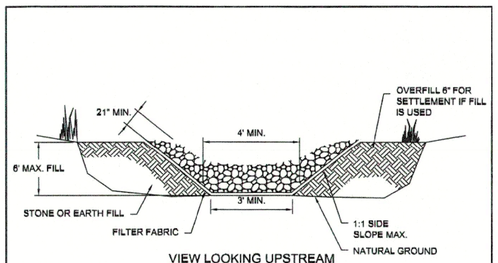
2. THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

3. WHEN SILT REACHES A DEPTH EQUAL TO ONE–THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.

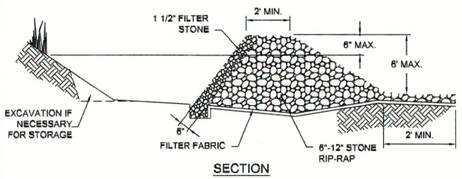
4. WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

5. FILTER STONE SHALL BE WRAPPED IN APPROPRIATE SIZED WIRE MESH TO CONTAIN STONE AND BURIED SIX (6") INCHES MINIMUM.

ROCK CHECK DAM	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.9 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1060B



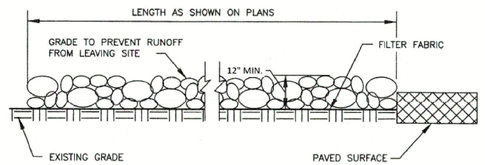
VIEW LOOKING UPSTREAM



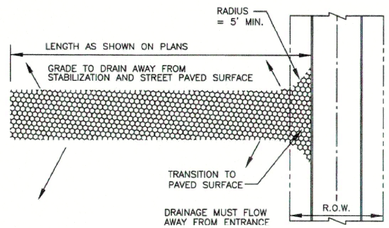
SECTION

NOTE: FILTER STONE SHALL BE WRAPPED IN APPROPRIATE SIZED WIRE MESH TO CONTAIN STONE.

STONE OUTLET SEDIMENT TRAP	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.12 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1090



PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.

Note: No crushed concrete or recycled concrete allowed.

STABILIZED CONSTRUCTION ENTRANCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.11 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1070A

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 4 TO 6 INCH DIAMETER COARSE AGGREGATE.

2. MINIMUM LENGTH SHALL BE 50 FEET AND WIDITH SHALL BE 20 FEET.

3. THE THICKNESS SHALL NOT BE LESS THAN 12 INCHES.

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

8. PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS NECESSARY.

9. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

10. NO CRUSHED OR RECYCLED CONCRETE ALLOWED.

STABILIZED CONSTRUCTION ENTRANCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.11 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1070B

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

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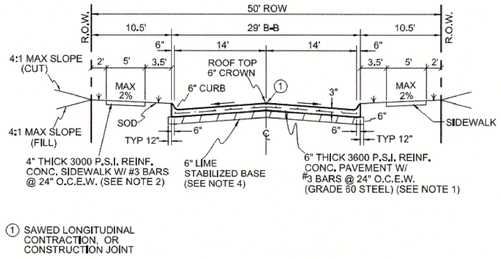
PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

EROSION CONTROL DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/15/2023

JVC No 502

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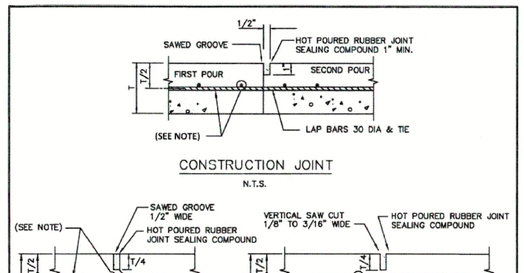
50' R.O.W. Residential Street
(Not to Scale)

NOTES:

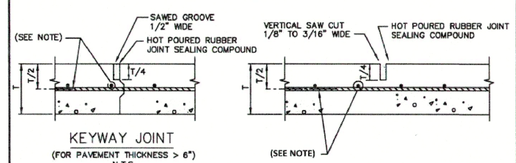
1. Street pavement cement content to be no less than 6 sacks per cubic yard for machine placed and not less than 6.5 sacks per cubic yard for hand placed.
2. Sidewalk Cement content of not less than 5.5 sack per cubic yard.
3. No sand allowed under pavement or sidewalks.
4. Minimum lime content shall be 6% of dry weight of material (at least 27 lbs/SY) compacted to 95% standard density.

REINFORCED CONCRETE PAVEMENT	CITY OF ROCKWALL	DATE	DRAWING NO.
LOCAL RESIDENTIAL STREET		AUG. '19	R-2033

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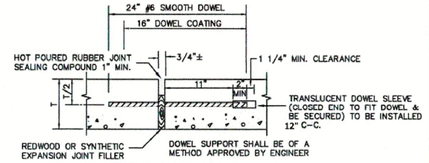
CONSTRUCTION JOINT
N.T.S.



KEYWAY JOINT
(FOR PAVEMENT THICKNESS > 6")
N.T.S.

SAWED CONTRACTION JOINT
N.T.S.

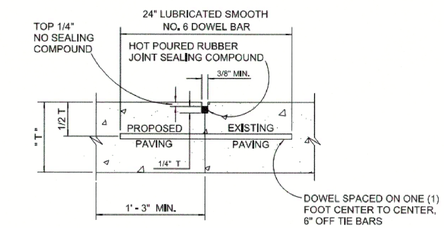
NOTE:
REINFORCING SHALL BE - #3 BARS AT 24" FOR 6" THICK PAVEMENT AND LESS. #4 BARS AT 18" FOR 8" THICK PAVEMENT AND GREATER.



EXPANSION JOINT
(SPACED 600 FT. MAXIMUM; LOCATE AT STRUCTURES AND AT INTERSECTION P.C.'S & P.T.'S)
N.T.S.

REINFORCED CONCRETE PAVEMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
JOINTS		303.5.4.	
		DATE	STANDARD DRAWING NO.
		Mar. 2018	R-2050

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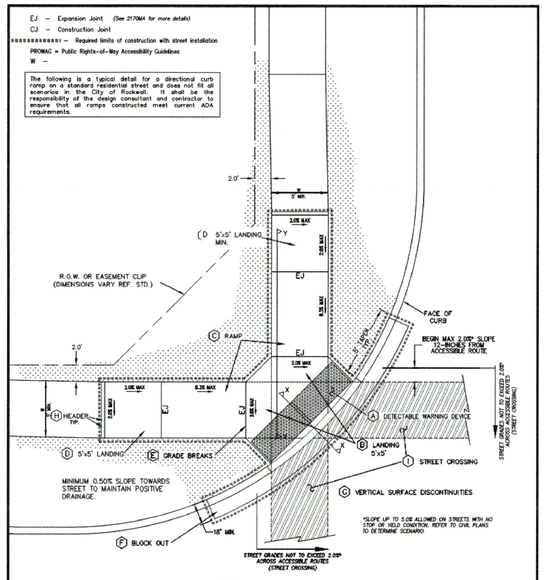
NOTES: T = PAVEMENT

1. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
3. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

LONGITUDINAL BUTT JOINT
NOT TO SCALE

REINFORCED CONCRETE PAVEMENT	CITY OF ROCKWALL	DATE	DRAWING NO.
LONGITUDINAL BUTT JOINT		OCT. '17	R-2051

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NOTES: All newly constructed sidewalks, curb ramps and crosswalks installed within City of Rockwall public rights-of-way shall be considered a pedestrian access route and shall conform to the most current "Draft" Guidelines for Public Rights-of-Way created by the United States Access Board.

1. SEE DETAIL R-2125B FOR RAMP FEATURE DESCRIPTIONS
2. SEE DETAIL R-2125C FOR SECTIONS X-X AND Y-Y
3. SEE DETAIL R-2125D FOR ADDITIONAL NOTES

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125A

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A — Detectable Warning Devices (DWD) shall be pre-manufactured cast-in-place truncated dome plates installed to the manufacturer's specifications, and shall meet all ADA requirements. No Brick Pavers allowed. Color to be approved by the City. DWD shall be 24 inches in length for the full width of the street connection starting at the back of curb. A maximum 2-inch border shall be allowed on the sides of the DWD for proper installation.

B — Also known as "Clear Space" per ADA PROWAG, the City requires a minimum landing space of 5-foot by 5-foot at the bottom of every ramp. This landing space shall have a cross slope in both directions that does not exceed 2.0% and shall be wholly outside the parallel vehicular travel path.

C — The ramp component of the directional curb ramp shall have a continuous longitudinal slope more than 5% and less than 8.3%. The ramp shall also have a cross slope of no more than 2.0%. Length of ramp can vary, but shall not exceed 15 feet to achieve desired elevation change.

D — Also known as "Turning Space" per ADA PROWAG, a minimum landing space of 5-foot by 5-foot shall be at the top of every ramp. This landing (turning) space shall have a cross slope in both directions that does not exceed 2.0%. Landing must match width of sidewalk and length shall be the same distance ("Squared" Landing).

E — All curb ramps shall have grade breaks at the top and bottom that are perpendicular to the direction of the ramp run. Where the ends of the bottom grade break are less than or equal to 5 feet, the DWD shall be placed within the ramp at the bottom grade break. Where either end of the bottom grade break is greater than 5 feet, the DWD shall be placed behind the back of the curb.

F — Paving contractor shall leave block out with a keyway joint installed, minimum of 18 inches measured from back of curb. Block out shall be poured monolithically with Curb Ramp. Concrete shall tie to street paving with a keyway joint per NCTCOG detail 2050. No curb shall be constructed where a DWD is provided. The curb on either side shall have a typical 5 foot taper to transition from the standard 6-inch curb height to be flush with ramp.

G — All work associated with accessible routes shall be installed flush with all features to minimize vertical surface discontinuities. Each segment along accessible route shall be flush with no more (zero tolerance) than a ¼-inch grade separation (elevation difference), or ½-inch grade separation if beveled (bevel slope shall not be steeper than 50%).

H — A sidewalk header shall be constructed at ends of all work performed.

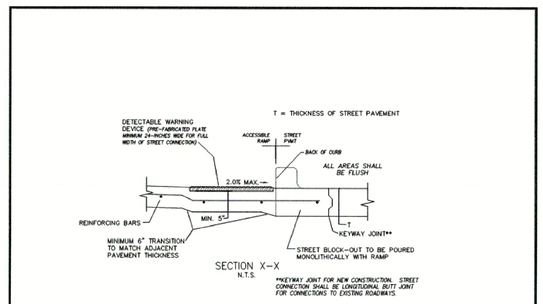
I — Street crossings shall adhere to same guidelines as other accessible routes within public right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall not exceed 2%*. New street construction shall incorporate all ADA design requirements. It shall be the responsibility of the Design Professional and Contractor to ensure all street crossings meet the requirements of PROWAG. Street alterations on existing streets to bring to compliance shall be at the City Engineer's discretion.

J — All curbs constructed as part of an ADA Ramp shall match City curb standards.

** See PROWAG special design considerations when street crossing has no stop or yield condition.*

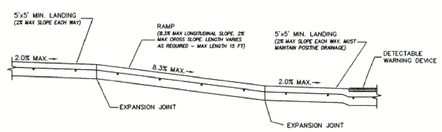
DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125B

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SECTION X-X
N.T.S.

**KEYWAY JOINT FOR NEW CONSTRUCTION. STREET CONNECTION SHALL BE LONGITUDINAL BUTT JOINT FOR CONNECTIONS TO EXISTING ROADWAYS.



SECTION Y-Y
N.T.S.

NOTE: ALL SIDEWALK CURB RAMPS WILL BE 3,600 PSI (6.5 SACK/CY) CONCRETE.

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125C

Page 271

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

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704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/15/2023

JVC No 502

J:\Civil 3d projects\engr - michael joyce properties\engr502 - park hills\src plans\dwg\sheets\construction plans\details.dwg

PEDESTRIAN ACCESSIBILITY (WITHIN PUBLIC R.O.W.)

All newly constructed sidewalks, curb ramps and crosswalks installed within City of Rockwall public rights-of-way shall be considered a pedestrian access route and shall conform to the most current Guidelines for Public Rights-of-Way created by the United States Access Board.

CURB RAMPS

1. All slopes shown are MAXIMUM ALLOWABLE. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
2. Landings shall be 5'x 5' minimum with a maximum 2% slope in the transverse and longitudinal directions..
3. Clear space at the bottom of curb ramps shall be a minimum of 5'x 5' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
4. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
5. Additional information on curb ramp location, design, light reflective value and texture may be found in the most current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102. Federal guidelines shall supersede any conflicts.
6. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps and accessible routes shall align with theoretical crosswalks unless otherwise directed.
7. Handrails are not required on curb ramps.
8. Provide a flush transition where the curb ramps connect to the street.
9. Accessible routes are considered "ramps" when longitudinal slopes are between 5% and 8.3% (maximum allowable). Sidewalks under 5% longitudinal slope are deemed accessible routes and must follow all applicable guidelines.

DETECTABLE WARNING DEVICE

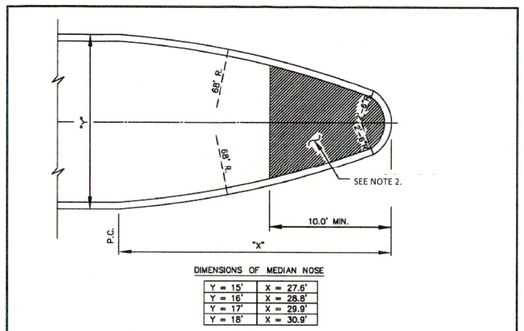
10. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces. Furnish and install an approved cast-in-place dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
11. Detectable Warning Materials shall be truncated dome plates in the color approved by the City. Install products in accordance with manufacturer's specifications.
12. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
13. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
14. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. When placed on the ramp, align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Where detectable warning surfaces are provided on a surface with a slope that is less than 5 percent, dome orientation is less critical. Detectable warning surfaces may be curved along the corner radius.

SIDEWALKS

15. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
16. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
17. Street grades and cross slopes shall be as shown elsewhere in the plans.
18. Changes in level greater than 1/4 inch are not permitted (1/2 inch with bevel).
19. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
20. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.

DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125D

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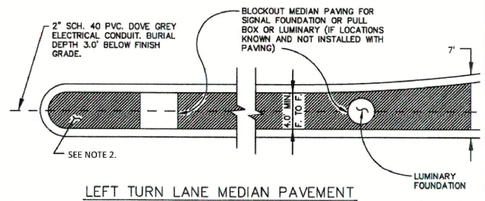


DIMENSIONS OF MEDIAN NOSE

Y = 15'	X = 27.6'
Y = 16'	X = 28.8'
Y = 17'	X = 29.9'
Y = 18'	X = 30.9'

CONCRETE NOSE FOR MEDIAN ISLAND
N.T.S.

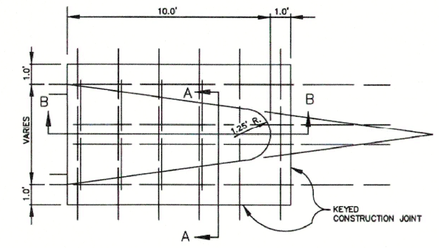
NOTES
1. LEFT TURN LANE SHALL HAVE A MOWER ACCESS RAMP.
2. MEDIAN PAVING TO BE CONSTRUCTED OF INEGRAL STAMPED & STAINED REINFORCED CONCRETE, COLOR AND PATTERN TO BE APPROVED BY THE CITY. CONCRETE TO BE MINIMUM SIX (6") INCH 3600PSI (6.5 SACK/CY) WITH #4 BARS ON 18" CENTERS.
3. STREET LIGHT POLE BASES IN MEDIAN ARE TO HAVE THIRTY-SIX (36") INCH BY THIRTY-SIX (36") INCH, FOUR (4") INCH THICK, 3000PSI REINFORCED CONCRETE MOW STRIP.



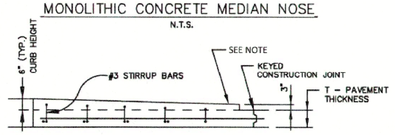
LEFT TURN LANE MEDIAN PAVEMENT
N.T.S.

MEDIAN ISLAND PAVEMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
NOSE & LEFT TURN LANE		305.3	
		DATE	STANDARD DRAWING NO.
		AUG. '19	R-2130

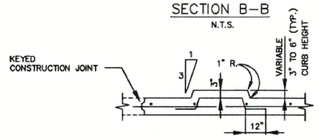
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MONOLITHIC CONCRETE MEDIAN NOSE
N.T.S.



SECTION B-B
N.T.S.

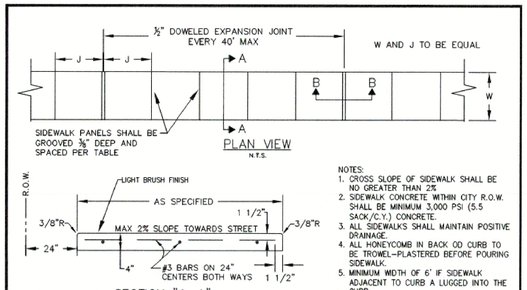


SECTION A-A
N.T.S.

NOTE:
1. MEDIAN NOSE PAVEMENT STRENGTH SHALL MATCH THAT OF STREET PAVING.
2. MONOLITHIC NOSE REQUIRED WHEN LESS THAN 6.0' FACE TO FACE.
3. REINFORCEMENT BARS SHALL MATCH THOSE IN PAVEMENT.

MEDIAN ISLAND PAVEMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
MONOLITHIC CONCRETE NOSE		305.3	
		DATE	STANDARD DRAWING NO.
		AUG. '19	R-2140

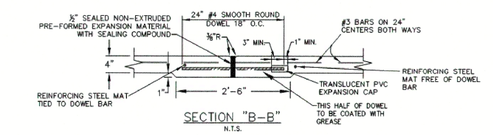
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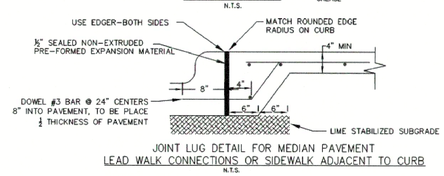
PLAN VIEW
N.T.S.

SECTION "A-A"
N.T.S.

NOTES:
1. CROSS SLOPE OF SIDEWALK SHALL BE NO GREATER THAN 2%
2. SIDEWALK CONCRETE WITHIN CITY R.O.W. SHALL BE MINIMUM 3,000 PSI (5.5 SACK/C.Y.) CONCRETE.
3. ALL SIDEWALKS SHALL MAINTAIN POSITIVE DRAINAGE.
4. ALL HONEYCOMB IN BACK OD CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
5. MINIMUM WIDTH OF 6' IF SIDEWALK ADJACENT TO CURB A LUGGED INTO THE CURB.
6. STEEL WIRE MESH IS NOT ACCEPTABLE.



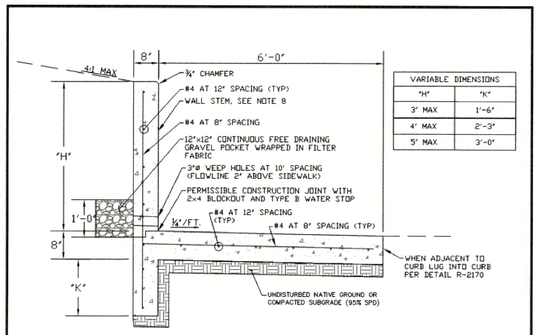
SECTION "B-B"
N.T.S.



JOINT LUG DETAIL FOR MEDIAN PAVEMENT
LEAD WALK CONNECTIONS OR SIDEWALK ADJACENT TO CURB
N.T.S.

REINFORCED CONCRETE SIDEWALKS	CITY OF ROCKWALL	DATE	DRAWING NO.
JOINTS AND SPACING		AUG '19	R-2170

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VARIABLE DIMENSIONS	
"H"	"K"
3' MAX	1'-6"
4' MAX	2'-3"
5' MAX	3'-0"

RETAINING WALL WITH INTEGRAL SIDEWALK
N.T.S.

NOTES:
1. FOR USE OF THIS STANDARD DETAIL, THE FOLLOWING GEOTECHNICAL SITE CONDITIONS MUST BE MET:
   -MINIMUM ALLOWABLE BEARING PRESSURE: 1,500 PSF
   -MINIMUM COEFFICIENT OF FRICTION: 0.3
   -MAXIMUM ACTIVE PRESSURE COEFFICIENT (Ka): 0.65
2. ALL MATERIALS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
4. ALL REINFORCING STEEL SHALL BE GRADE 60.
5. ALL CLEAR COVER SHALL BE 2" WHERE FORMED AND 3" WHERE CAST AGAINST EARTH.
6. IF ANY SURCHARGE LOAD IS ANTICIPATED AN ENGINEERING DESIGN IS REQUIRED, SEALED BY A REGISTERED ENGINEER IN THE STATE OF TEXAS. THIS INCLUDES DEAD LOAD SURCHARGES AND LIVE LOAD SURCHARGES SUCH AS TRAFFIC LOADS.
7. JOINT LOCATIONS SHALL MATCH ON SIDEWALK AND WALL. JOINT SPACING SHALL BE EVERY 30 FEET FOR CONTROL JOINTS AND EVERY 90 FEET FOR EXPANSION JOINTS. TYPE B WATERSTOP SHALL BE APPLIED ON THE FILL SIDE OF ALL EXPANSION AND CONSTRUCTION JOINTS.
8. WALL FACE SHALL BE FORM LINER OR STONE VENEER WITH RANDOM ROCK ASHLAR PATTERN, NO SMOOTH CONCRETE SURFACE ALLOWED

REINFORCED CONCRETE RETAINING WALL	CITY OF ROCKWALL	DATE	DRAWING NO.
INTEGRAL WITH SIDEWALK		AUG '19	R-2180

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GENERAL NOTES:

1. REINFORCED CONCRETE PAVEMENT:
   A. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT UNLESS OTHERWISE APPROVED BY THE OWNER.
   B. CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE PAVEMENT.
   C. BAR LAPS SHALL BE 30 DIAMETERS.
   D. REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE OWNER.
2. SUBGRADE: (UNLESS OTHERWISE SPECIFIED BY OWNER)
   A. SUBGRADE UNDER ALL PAVEMENTS SHALL BE STABILIZED TO A MINIMUM DEPTH OF SIX (6") INCHES WITH HYDRATEDLIME CEMENT. LABORATORY TESTS WILL BE PERFORMED TO DETERMINE THE AMOUNT OF LIME OR CEMENT TO USE.

PAVEMENT SYSTEMS	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
GENERAL NOTES		302,303	
		DATE	STANDARD DRAWING NO.
		Mar. 2018	R-2190

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RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

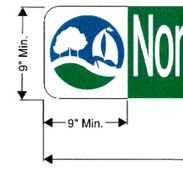
PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

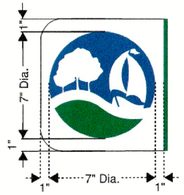
PAVING DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/15/2023

JVC No 502

J:\civil 3d projects\mip - michael joyce properties\mip502 - park hills\jvc plans\dwg\sheets\construction plans\details.dwg





Rockwall Logo Detail

NOT TO SCALE

Notes:
1. Street name blades shall consist of white SCOTCHLITE 3930 High Intensity Prismatic Material, digitally printed using HP Latex 360 or higher.
Green: Pantone 335C with overlay CMYK 100-0-20-0 set to darken.
Blue: Pantone 287C.

2. Lettering to be composed of a combination of upper and lowercase letters, with initial uppercase letters. Font to be Clearview TCAD-1w with uppercase to be 6" Min. height and lowercase to be 4.5" Min. height. No more than 65% compression on font width.

3. Lettering for street designations and block numbers to be composed of initial uppercase letters at least 3" Min. height and lower-case letters at least 2.25" Min. height.

4. Sign post to be 2 3/8" O.D. galvanized steel tube sign pole.

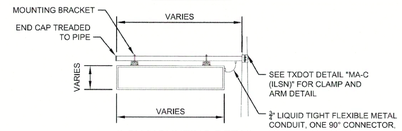
STREET SIGN DETAIL

NOT TO SCALE

STREET REGULATORY SIGNAGE	CITY OF ROCKWALL		
TYPICAL STREET SIGN DETAIL		DATE: May 2018	DRAWING NO.: R-2300



EXAMPLE SINGLE STREET NAME DETAIL

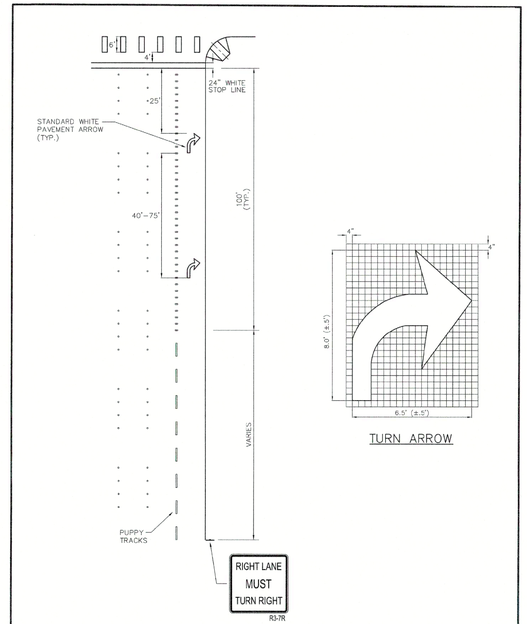


ILSN MOUNTING DETAIL

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL LETTER SPACING AND WIDTH SHALL BE 100% OF THE US DOT MINIMUM RECOMMENDATION.
   A. LEGENDS REQUIRING LENGTHS GREATER THAN THE 96" WIDTH OF THE SIGN USING STANDARD SPACING, MAY BE ADJUSTED TO FIT.
2. ILSNS UP TO 6' IN LENGTH MAY BE PLACED ON A 7' ILSN CLAMP-ON ARM. ILSNS UP TO 8' IN LENGTH MAY BE PLACED ON A 9' ILSN CAMP-ON ARM.
3. LETTERING SIZE AND SPACING BETWEEN THE VARIOUS SIGN ELEMENTS SHALL FOLLOW THE CURRENT VERSION OF THE *STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS* MANUAL FOR D3-1.
   A. DESIRED LETTER HEIGHT FOR STREET NAME SIGNS SHALL BE 12" FOR UPPER CASE LETTERS. STREET NAME LETTER HEIGHT MAY BE REDUCED TO 10" TO REDUCE THE SIZE OF THE SIGN AS NEEDED.
4. THE CITY LOGO HEIGHT SHALL MATCH MAXIMUM TEXT SIZE HEIGHT ON SIGN LEGEND. THE LOGO SHALL BE PLACED ON THE LEFT SIDE OF EACH SIDE OF THE SIGN ON A WHITE BACKGROUND.
5. THE ILSN LEGEND MAY BE COMPOSED OF ONE LINE OR TWO LINES OF TEXT. CONTRACTOR TO VERIFY WITH CITY BEFORE SUBMITTING SHOP DRAWINGS FOR SIGNS WITH TWO LINES OF TEXT.
6. SIGNS SHALL BE EDGELIT LED ILLUMINATED
7. FACE COLOR/MATERIAL: GREEN EC FILM OVER HIGH-INTENSITY TRANSLUCENT REFLECTIVE WHITE SHEETING ON UV LEXAN.
8. FRAME WIDTH TO BE PROVIDED BY MANUFACTURER.
9. SIGN BODIES AND DOORS ARE TO BE POWDER COATED GLOSSY BLACK.
10. SIGNS SHALL BE SINGLE SIDED EXCEPT UNDER THE FOLLOWING CONDITION:
    SIGN SHALL BE DOUBLE SIDED IF BOTH APPROACHES FACING THE SIGN ARE UNDIVIDED(NO MEDIAN).
11. SIGNS SHALL BE TOP MOUNTED USING STANDARD TXDOT DETAILS.
12. ILSN SHALL BE MOUNTED ON A STANDARD TXDOT ILSN CLAMP-ON ARM UNLESS OTHERWISE DIRECTED IN THE PLANS
13. ILSN SHALL BE FULLY GASKETED AND WATERTIGHT.
14. TRAFFIC SIGNAL POLE SHALL BE AT LEAST 24' HEIGHT. (SEE TXDOT TRAFFIC SIGNAL POLE STANDARDS)
15. A SEPARATE PHOTOCELL FOR ILSN/120 VOLT CIRCUIT WILL BE REQUIRED.
16. TWO #8 XHHW CONDUCTORS SHALL BE INSTALLED FROM SERVICE TO TERMINAL BLOCK OF EACH POLE WITH ILSN UNLESS OTHERWISE SHOWN IN THE PLANS. CONDUCTORS FROM SERVICE TO TERMINAL BLOCK OF EACH POLE SHALL BE PAID FOR SEPARATELY FROM THE ILSN PAY ITEM.)
    A. DAISY CHAIN ALL ILSNS UNLESS OTHERWISE DIRECTED IN THE PLANS
17. TWO # 12 XHHW CONDUCTORS SHALL BE INSTALLED FROM TERMINAL BLOCK OF POLE TO ILSN UNLESS OTHERWISE SHOWN IN THE PLANS. (CONDUCTORS FROM THE TERMINAL BLOCK OF EACH POLE TO ILSN SHALL BE PAID FOR SEPARATELY FROM THE ILSN PAY ITEM.)
18. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE LED ILSNS TO CITY OF ROCKWALL FOR APPROVAL PRIOR TO FABRICATION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT NECESSARY TO INSTALL THE ILSN SIGN.
20. ALL ISLNS SHALL FOLLOW ALL RULES AND GUIDELINES AS SPECIFIED IN THE MOST RECENT EDITIONS OF THE *STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS* AND THE *TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES*. SHOULD ANY CONFLICTS BETWEEN THE ABOVE NOTES AND THESE DOCUMENTS, THESE DOCUMENTS SHALL GOVERN.

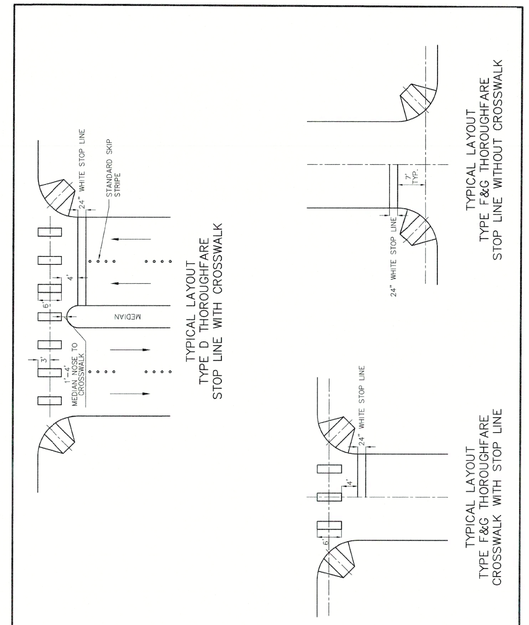
ILLUMINATED STREET NAME SIGN	CITY OF ROCKWALL		
ILSN SIGN DETAIL		DATE: JUN '17	DRAWING NO.: R-2310



TURN ARROW

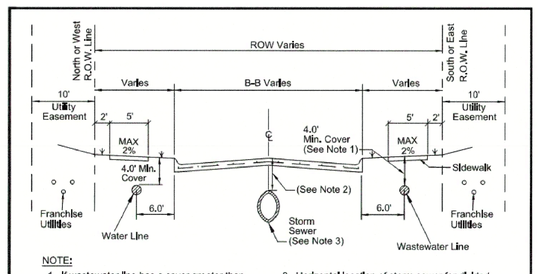
TYPE C INTERSECTION	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
RIGHT LANE DROP MARKINGS		DATE: Mar. 2018	STANDARD DRAWING NO.: R-2350

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



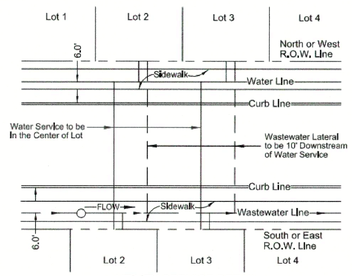
TYPICAL THOROUGHFARE LAYOUTS	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE	
		DATE: Mar. 2018	STANDARD DRAWING NO.: R-2360

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



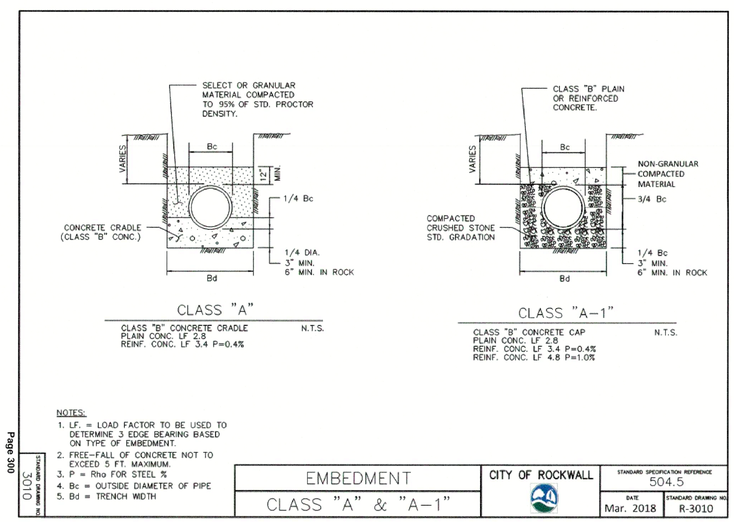
NOTE:

1. If wastewater line has a cover greater than ten feet (10') than pipe shall be minimum SDR 26 and no services allowed.
2. If cover is two (2) feet or less than Class IV RCP is required.
3. Horizontal location of storm sewer for divided roads to be determined by design engineer. Not to be placed in the parkway.



UTILITY SERVICE DETAIL

GENERAL UNDERGROUND CONDUIT UTILITIES LOCATION DETAIL	CITY OF ROCKWALL	DATE: OCT. '17	DRAWING NO.: R-3000



NOTES:
1. LF. = LOAD FACTOR TO BE USED TO DETERMINE 3 EDGE BEARING BASED ON TYPE OF EMBEDMENT.
2. FREE-FALL OF CONCRETE NOT TO EXCEED 5 FT. MAXIMUM.
3. P = Rho FOR STEEL %
4. Bc = OUTSIDE DIAMETER OF PIPE
5. Bd = TRENCH WIDTH

3010 DATE SHOWN ON DRAWINGS	EMBEDMENT CLASS "A" & "A-1"	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 504.5	
			DATE: Mar. 2018	STANDARD DRAWING NO.: R-3010

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1,200 | Plano, TX 75074 | 972.201.3100

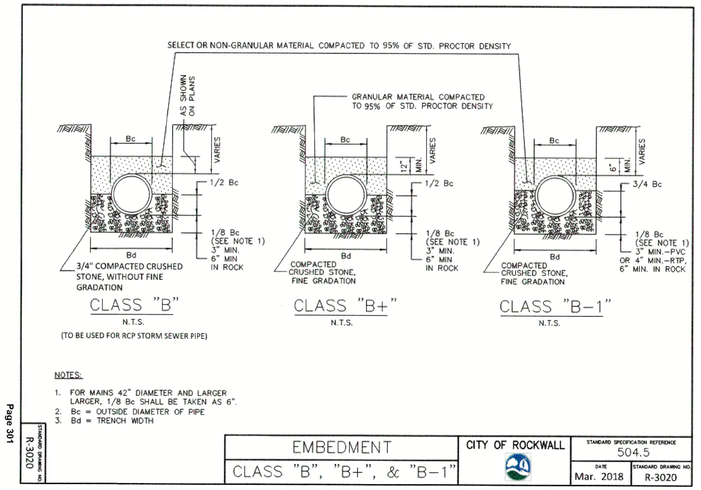
PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/15/2023

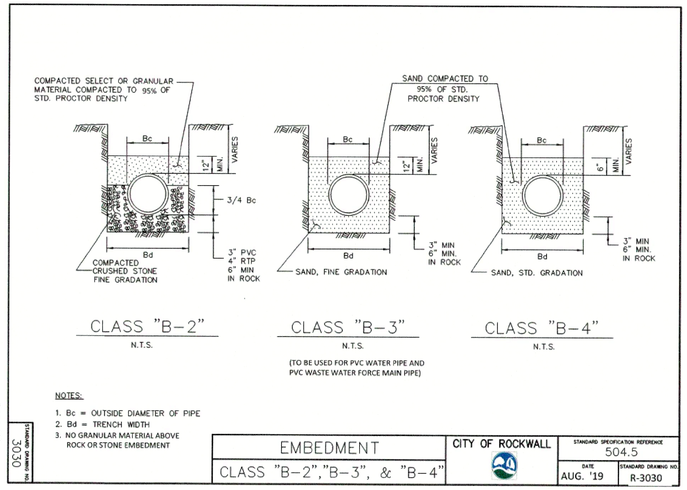
JVC No 502

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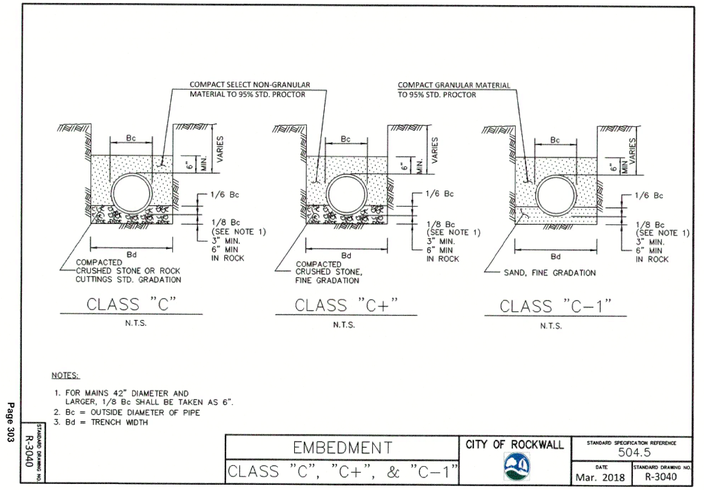
Page 301

STANDARD DRAWING NO. R-3020	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "B", "B+", & "B-1"		DATE Mar. 2018 / STANDARD DRAWING NO. R-3020



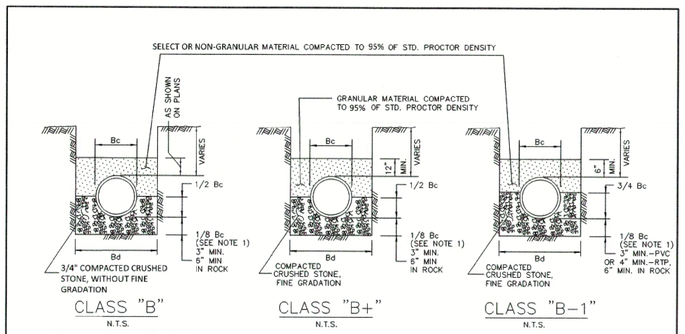
Page 302

STANDARD DRAWING NO. R-3030	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "B-2","B-3", & "B-4"		DATE AUG. '19 / STANDARD DRAWING NO. R-3030



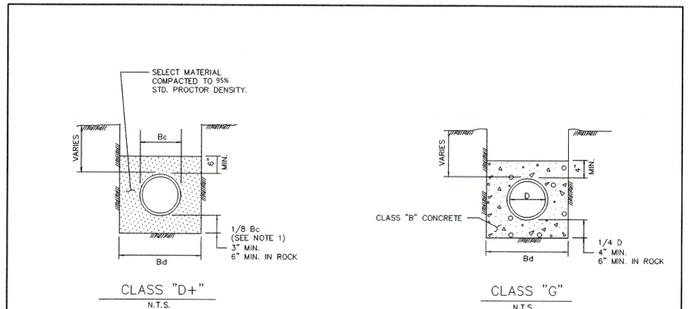
Page 303

STANDARD DRAWING NO. R-3040	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "C", "C+", & "C-1"		DATE Mar. 2018 / STANDARD DRAWING NO. R-3040



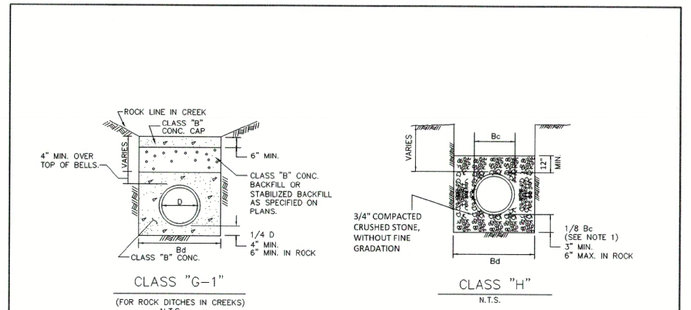
Page 301

STANDARD DRAWING NO. R-3020	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "B", "B+", & "B-1"		DATE Mar. 2018 / STANDARD DRAWING NO. R-3020



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STANDARD DRAWING NO. R-3050	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "D+" & "G"		DATE Mar. 2018 / STANDARD DRAWING NO. R-3050



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STANDARD DRAWING NO. R-3060	EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 504.5
	CLASS "G-1" & "H"		DATE AUG. '19 / STANDARD DRAWING NO. R-3060

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

Johnson Volk Consulting, Inc.

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

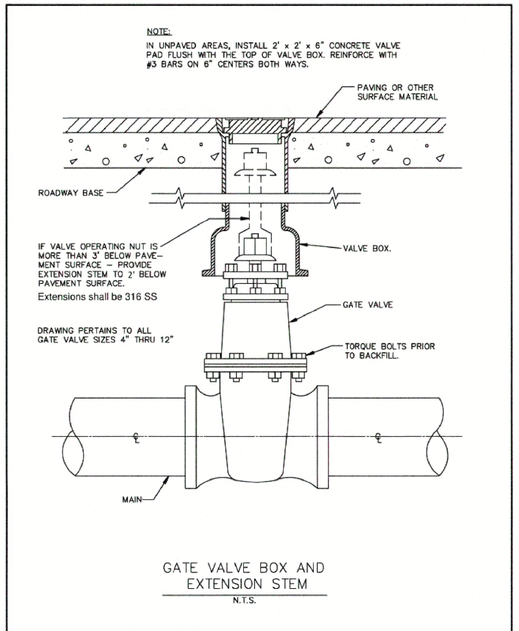
PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

PAVING DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/15/2023

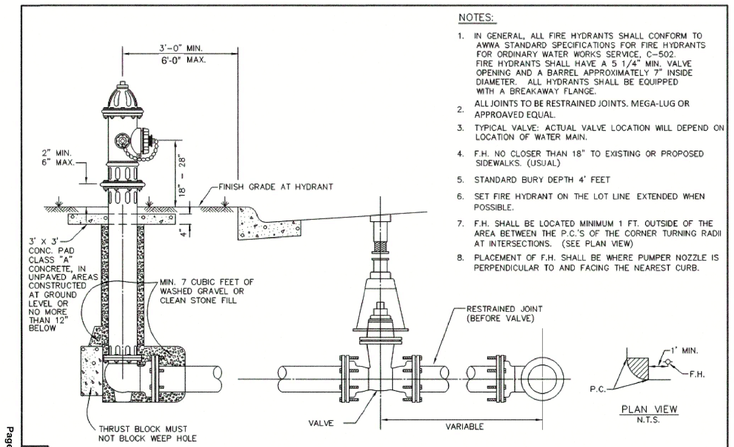
JVC No 502

j:\civil 3d projects\mgp - michael joyce properties\mgp502 - park hills\src plans\dwgs\sheets\construction plans\details.dwg



GATE VALVE 4" TO 12" BOX & EXTENSION STEM	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.6.6*	DATE AUG. '19	STANDARD DRAWING NO. R-4050

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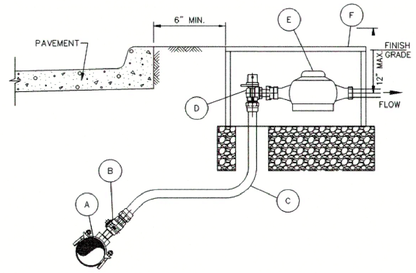


NOTES:

1. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502. FIRE HYDRANTS SHALL HAVE A 5 1/4" MIN. VALVE OPENING AND A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE.
2. ALL JOINTS TO BE RESTRAINED JOINTS. MEGA-LUG OR APPROAVED EQUAL.
3. TYPICAL VALVE: ACTUAL VALVE LOCATION WILL DEPEND ON LOCATION OF WATER MAIN.
4. F.H. NO CLOSER THAN 18" TO EXISTING OR PROPOSED SIDEWALKS. (USUAL)
5. STANDARD BURY DEPTH 4' FEET
6. SET FIRE HYDRANT ON THE LOT LINE EXTENDED WHEN POSSIBLE.
7. F.H. SHALL BE LOCATED MINIMUM 1 FT. OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADII AT INTERSECTIONS. (SEE PLAN VIEW)
8. PLACEMENT OF F.H. SHALL BE WHERE PUMPER NOZZLE IS PERPENDICULAR TO AND FACING THE NEAREST CURB.

STANDARD DRAWING NO. R-4120	FIRE HYDRANT INSTALLATION	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.3	DATE Aug. 2019	STANDARD DRAWING NO. R-4120

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NOTES:

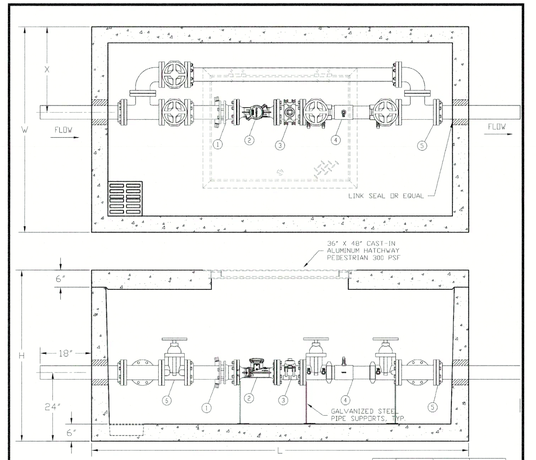
1. SERVICE PIPE SHALL BE 1" OR 2" SEAMLESS 250 PSI BLUE COLORED POLYETHYLENE ASTM D2737, SDR 9, CTS WATER SERVICE PIPE, NSF61 APPROVED.
2. TOP OF METER BOXES SHALL BE 1" ABOVE FINISHED GRADE.
3. METER BOX SHALL HAVE A MINIMUM OF 6" OF GRAVEL BENEATH METER BOX AS ILLUSTRATED.
4. LOCATION OF THE METER BOX SHALL BE LOCATED TO ALLOW 6" CLEARANCE FROM CURB.

MATERIAL LIST:

A. SERVICE SADDLE SHALL BE BRASS WITH DOUBLE BRONZE FLATTENED STRAPS OR STAINLESS STEEL DOUBLE BOLT WIDE STRAPS. NO BANDED OR HINGED STRAPS SHALL BE ALLOWED. SERVICE SADDLES SHALL MEET AWWA/CC TAPPING OUTLET (TAPERED THREADS) REQUIREMENTS. ALL SERVICE SADDLES SHALL BE PER APPROVED WATER MATERIALS LIST.
B. 1" OR 2" CORPORATION STOP PER APPROVED WATER MATERIALS LIST.
C. 1" OR 2" SERVICE PIPE SHALL BE SEAMLESS 250 PSI BLUE COLORED POLYETHYLENE ASTM D2737, SDR9, CTS WATER SERVICE PIPE, NSF61 APPROVED.
D. 1" OR 2" LOCKING ANGLE METER VALVE (STOP) PER APPROVED WATER MATERIALS LIST.
E. WATER METERS CENTERED IN BOX AS ILLUSTRATED.
F. ROUND METER BOX PER APPROVED WATER MATERIALS LIST.

WATER SERVICE INSTALLATION 1" OR 2" LINE	CITY OF ROCKWALL	DATE AUG '19	DRAWING NO. R-4130

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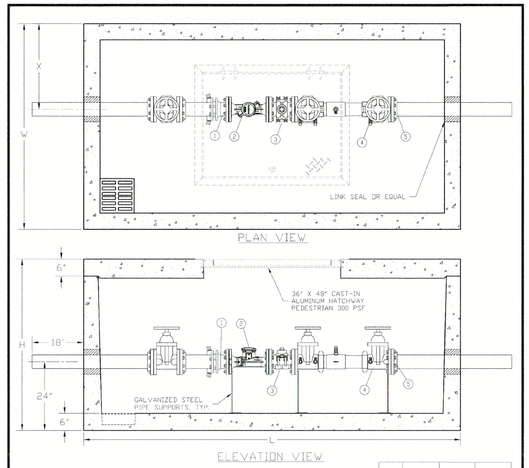
SIZE	L	W	H
3"	11'- 0"	6'- 0"	5'- 0"
4"	8'- 8"	5'- 0"	5'- 0"
6"	11'- 0"	6' 0"	5'- 0"

NOTES:

1. CONCRETE SHALL HAVE MIN STRENGTH OF 4200 PSI AT 28 DAYS. NO CAST IN PLACE VAULTS SHALL BE ALLOWED.
2. REINFORCEMENT SHALL BE GRADE 60. STEEL BAR SHALL CONFORM TO ASTM A615 ON REQUIRED CENTERS OR EQUALS.
3. ACCESS IS 1/4" ALUMINUM DIAMOND PLATE COVER WITH ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SLAM LOCK & HINGES.

ITEM	DESCRIPTION
1	FLANGE COUPLING ADAPTER
2	MASTER METER OCTAVE METER
3	STRAPPING SADDLE W/2" NPT PLUG
4	DOUBLE CHECK ASSEMBLY
5	FLG X P.E. SPOOL, D.I.
6	FLG NRS GATE VALVE

IRRIGATION WATER METER VAULT 3", 4" OR 6" LINE	CITY OF ROCKWALL	DATE AUG '19	DRAWING NO. R-4160



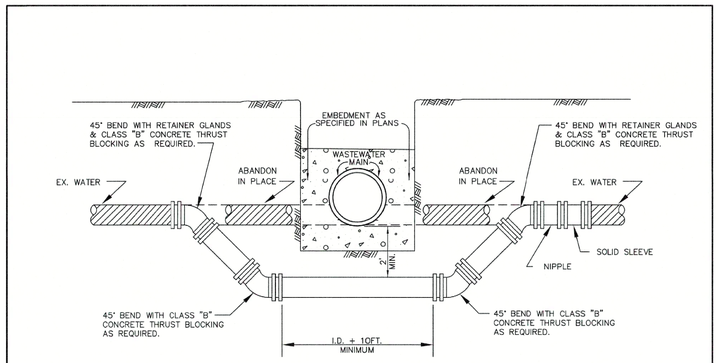
SIZE	L	W	H
3"	11'- 0"	6'- 0"	5'- 0"
4"	11'- 0"	6'- 0"	5'- 0"
6"	11'- 0"	6'- 0"	5'- 0"

NOTES:

1. CONCRETE SHALL HAVE MIN STRENGTH OF 4200 PSI AT 28 DAYS. NO CAST IN PLACE VAULTS SHALL BE ALLOWED.
2. REINFORCEMENT SHALL BE GRADE 60. STEEL BAR SHALL CONFORM TO ASTM A615 ON REQUIRED CENTERS OR EQUALS.
3. ACCESS IS 1/4" ALUMINUM DIAMOND PLATE COVER WITH ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SLAM LOCK & HINGES.

ITEM	DESCRIPTION
1	FLANGE COUPLING ADAPTER
2	MASTER METER OCTAVE METER
3	STRAPPING SADDLE W/2" NPT PLUG
4	DOUBLE CHECK ASSEMBLY
5	FLG X P.E. SPOOL, D.I.

IRRIGATION WATER METER VAULT 3", 4" OR 6" LINE	CITY OF ROCKWALL	DATE AUG '19	DRAWING NO. R-4170



CONCRETE ENCASEMENT SHALL ENCASE ENTIRE WASTEWATER MAIN. DEFLECT WATER LINE WHEN POSSIBLE.

STANDARD DRAWING NO. R-4200	WATER MAIN LOWERING BELOW WASTEWATER MAIN	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 506.6	DATE Mar. 2018	STANDARD DRAWING NO. R-4200

RECORD DRAWING

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

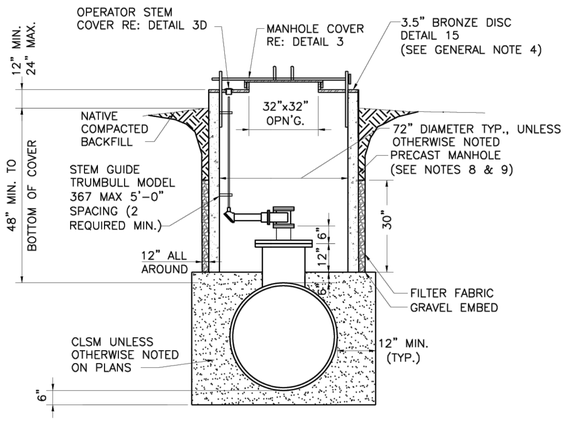
WATER DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED
PROFESSIONAL ENGINEER
05/15/2023

JVC No 502

53

j:\civil 3d projects\ship - midland joyce properties\ship502 - park hills\rev #dates\dwg\sheets\construction plans\details.dwg

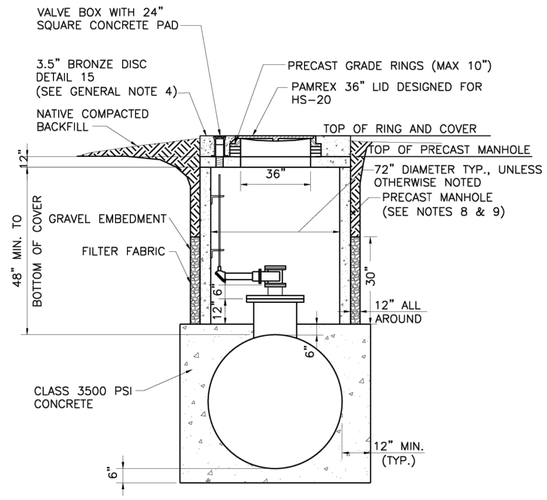


1 — TYPE "A" MANHOLE NON-TRAFFIC RATED

NOT TO SCALE

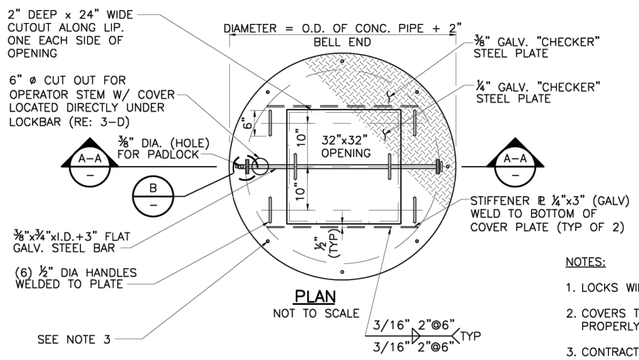
SHEET GENERAL NOTES FOR TYPE A MANHOLE AND TYPE B MANHOLE:

1. ALL METAL SURFACES INSIDE OF MANHOLES, EXCEPT STAINLESS STEEL AND BRONZE, SHALL RECEIVE TWO (2) COATS OF POLYURETHANE OR BITUMASTIC COATING (KOPPERS 50 OR APPROVED EQUAL). CARE SHALL BE TAKEN TO APPLY THE COATING IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
2. THE VALVE EXTENSION SHALL BE ONE PIECE ROD AND POSITIONED INSIDE THE MANHOLE SUCH THAT THE VALVE CAN BE OPERATED FROM GROUND LEVEL THROUGH THE MANHOLE TOP. VALVE STEM EXTENSION SHALL EXTEND TO WITHIN 4" OF THE MANHOLE TOP. ACCESS TO VALVE EXTENSION SHALL NOT BE THROUGH MANHOLE COVER.
3. ALL BLOW OFF AND AIR VALVE PIPING SHALL BE CLASS 53 MORTAR-LINED DUCTILE IRON PIPE WITH FLANGED JOINTS EXCEPT WHERE SPECIFICALLY NOTED. PIPING INSIDE MANHOLE AND BURIED PIPE SHOWN HAVE FACTORY APPLIED STANDARD COATING. ABOVE-GROUND PIPING SHALL BE FACTORY-PRIMED AND PAINTED SILVER. ALL BLOW OFF AND AIR VALVE PIPING SHALL BE CLASS 53 DUCTILE IRON PIPE WITH FLANGED JOINTS EXCEPT WHERE SPECIFICALLY NOTED. PIPING INSIDE MANHOLE AND BURIED PIPE SHOWN HAVE FACTORY APPLIED STANDARD COATING. IN ADDITION TO THE FACTORY APPLIED ASPHALTIC COATING, ALL BURIED DUCTILE IRON PIPE AND FITTINGS SHALL HAVE A TUBE-TYPE POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA C105. POLYETHYLENE ENCASEMENT SHALL BE 8 MILS THICK. BOTH ENDS OF THE PIPE SHALL BE THOROUGHLY SEALED WITH ADHESIVE TAPE OR PLASTIC TIE STRAPS AT THE JOINT OVERLAP. PLACE CIRCUMFERENTIAL WRAPS OF TAPE AT 2-FOOT INTERVALS ALONG THE BARREL OF THE PIPE TO MINIMIZE THE SPACE BETWEEN THE ENCASEMENT AND THE PIPE.
4. CONTRACTOR SHALL INSTALL BLANK 3.5" (BERNTSEN C35DB OR APPROVED EQUAL) BRASS DISC ON TOP OF MANHOLE COVER. CONTRACTOR WILL BE RESPONSIBLE FOR STAMPING DISC AT END OF PROJECT WITH IDENTIFICATION PROVIDED BY NTMWD.
5. INSTALL STEM GUIDES USING STAINLESS STEEL ANCHOR BOLTS. DO NOT TIE STEM GUIDE INTO MANHOLE REINFORCEMENT.
6. CONTRACTOR SHALL USE WAX TAPE AS SPECIFIED ON ALL DIRECT BURIED OR MORTAR COATED BOLTS AND CONNECTIONS.
7. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING TOP OF PRECAST MANHOLE ELEVATIONS.
8. PRECAST MANHOLE SECTIONS SHALL BE PLACED WITH BELLS FACING DOWNWARD. CONTRACTOR SHALL GROUT ALL INTERIOR MANHOLE JOINTS. TOP SHALL BE CAST FLAT OR HAVE SPIGOT END REMOVED AT TOP TO MAKE FLAT SURFACE FOR LID MOUNTING.
9. TYPE "B" PRECAST MANHOLE AND LID SHALL BE RATED FOR HS-20 LOADING.
10. TOP 4-FEET OF MANHOLE RISERS SHALL BE PROVIDED IN 2-FOOT VERTICAL SECTIONS.



2 — TYPE "B" MANHOLE TRAFFIC RATED

NOT TO SCALE

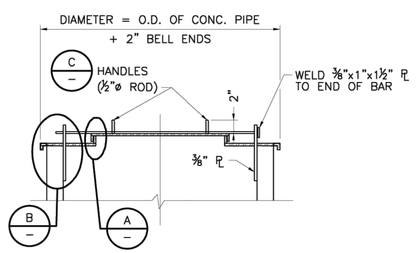


PLAN

NOT TO SCALE

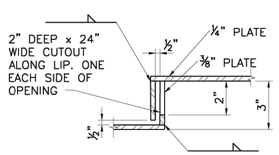
NOTES:

1. LOCKS WILL BE PROVIDED BY THE OWNER.
2. COVERS THAT ARE WARPED OR DO NOT PROPERLY FIT WILL BE REJECTED.
3. CONTRACTOR SHALL FASTEN VAULT LID TO CONCRETE VAULT WITH BOLTS.
4. OPERATOR STEM COVER SHALL BE PER DETAIL 3D.



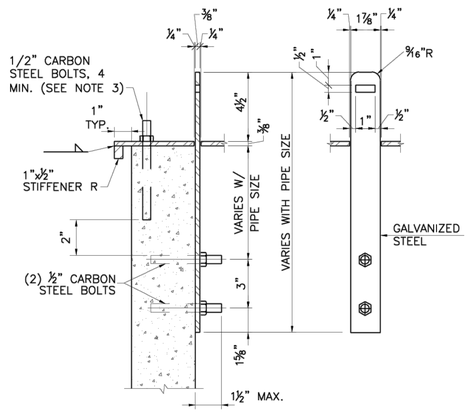
SECTION A-A

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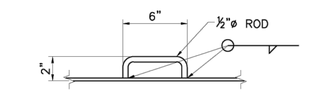
A — DETAIL

NOT TO SCALE



B — DETAIL

NOT TO SCALE



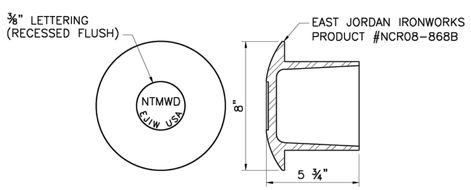
C — TYPICAL HANDLE DETAIL

NOT TO SCALE

RECORD DRAWING

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D — OPERATOR STEM COVER

NOT TO SCALE

3 — TYPE A MANHOLE COVER

NOT TO SCALE

REVISION #

F&N JOB NO. NTD14624
DATE NOV. 2018
SCALE NOT TO SCALE
DESIGNED
DRAFTED
FILE
FIGURE

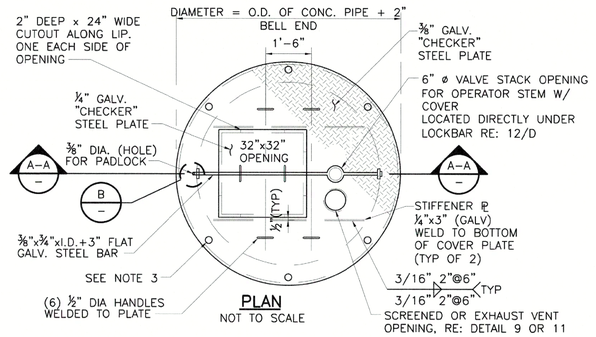
NTMWD STANDARD DETAILS

PIPELINE APPURTENANCE DETAILS

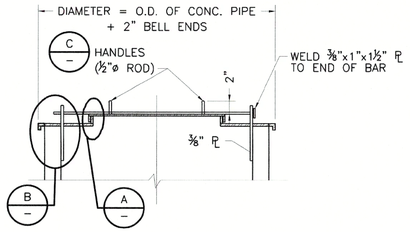
SHEET 1

Date: Mar 11, 2019 - 4:30pm User: 02943

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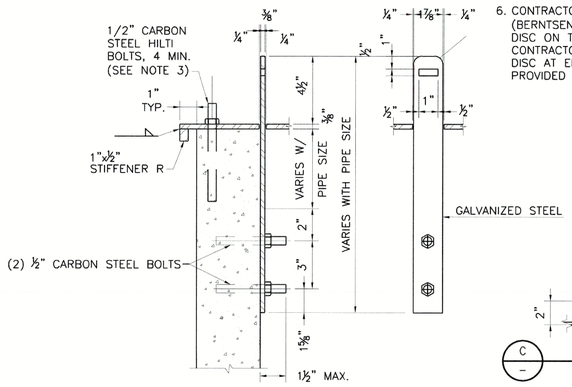
PLAN
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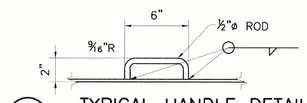
SECTION A–A
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NOTES:

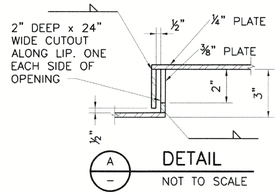
1. LOCKS WILL BE PROVIDED BY THE OWNER.
2. COVERS THAT ARE WARPED OR DO NOT PROPERLY FIT WILL BE REJECTED.
3. CONTRACTOR SHALL FASTEN VAULT LID TO CONCRETE VAULT WITH BOLTS.
4. OPERATOR STEM COVER SHALL BE PER DETAIL 12D.
5. THE VALVE STACK OPENING SHOWN ABOVE IS SCHEMATIC. CONTRACTOR SHALL COORDINATE VALVE STACK OPENING LOCATION WITH VALVE MANUFACTURER AND MANHOLE COVER MANUFACTURER PRIOR TO MANHOLE COVER FABRICATION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF MANHOLE AND MANHOLE COVER TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL INSTALL BLANK 3.5" (BERNTSEN C35DB OR APPROVED EQUAL) BRASS DISC ON TOP OF MANHOLE COVER. CONTRACTOR WILL BE RESPONSIBLE FOR STAMPING DISC AT END OF PROJECT WITH IDENTIFICATION PROVIDED BY NTMWD. SEE DETAIL 15.



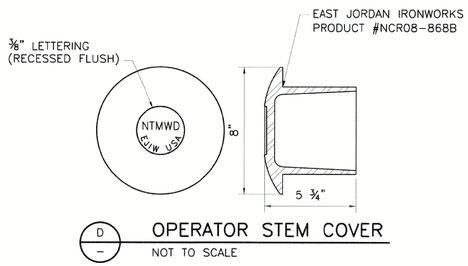
B DETAIL
NOT TO SCALE



C TYPICAL HANDLE DETAIL
NOT TO SCALE

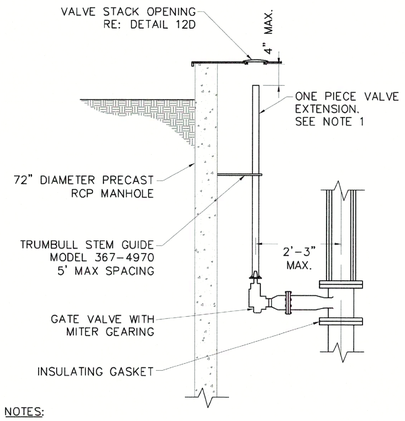


A DETAIL
NOT TO SCALE



D OPERATOR STEM COVER
NOT TO SCALE

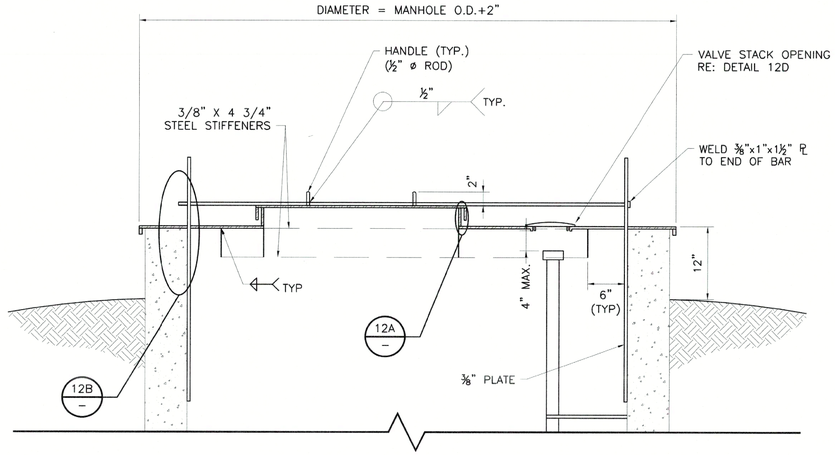
12 TYPE A MANHOLE COVER FOR TREATED WATER PIPELINE CAV
NOT TO SCALE



NOTES:

1. THE VALVE EXTENSION SHALL BE ONE PIECE AND POSITIONED INSIDE THE MANHOLE SUCH THAT THE VALVE CAN BE OPERATED FROM GROUND LEVEL THROUGH THE MANHOLE TOP. THE VALVE EXTENSION SHALL EXTEND TO WITHIN 4–INCHES OF THE MANHOLE TOP. ACCESS TO VALVE EXTENSION SHALL NOT BE THROUGH MANHOLE COVER.
2. CONTRACTOR SHALL CENTER VALVE STACK OPENING OVER GATE VALVE OPERATING STEM. CONTRACTOR SHALL COORDINATE VALVE STACK OPENING LOCATION WITH GATE VALVE MANUFACTURER AND MANHOLE COVER MANUFACTURER PRIOR TO MANHOLE COVER FABRICATION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF AIR RELEASE VALVE MANHOLE AND MANHOLE COVER TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. IF OPENINGS ARE FIELD CUT, CONTRACTOR SHALL PROTECT PIPE COATINGS FROM DAMAGE.

13 STEM GUIDE DETAIL
NOT TO SCALE



14 TYPE A MANHOLE COVER FOR WATER TREATED PIPELINE CAV – SECTION VIEW
NOT TO SCALE



NOTES:

1. INSTALL 3½"ø BRONZE MARKERS, BERNTSEN C35DB. OR APPROVED EQUAL.
2. MARKER SHAL BE STAMPED WITH CHARACTERS 3/16" SIZE. VALVE SIZE SHALL BE STAMPED IN PLACE OF XX.

15 BRONZE MARKER DETAIL
NOT TO SCALE

RECORD DRAWING

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Johnson Volk Consulting, Inc.

REVISION #

P&N JOB NO. NTD14624
DATE NOV. 2018
SCALE NOT TO SCALE
DESIGNED
DRAFTED
FILE

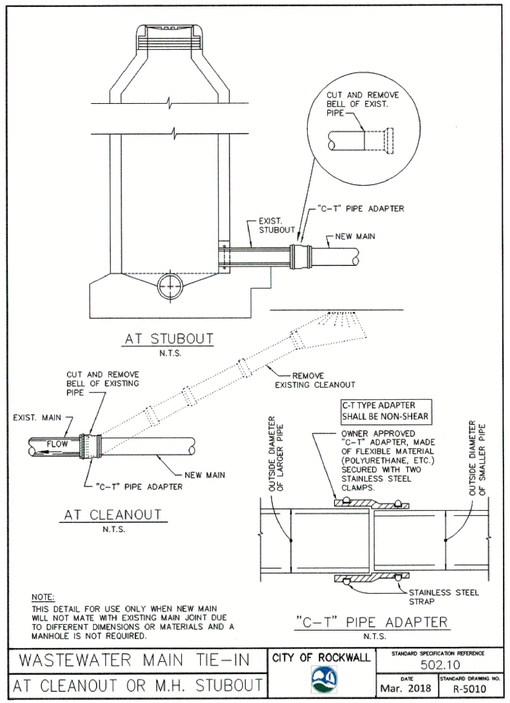
FIGURE

NTMWD STANDARD DETAILS

PIPELINE APPURTENANCE DETAILS
SHEET 4

Date: Mar 11, 2019 - 4:31pm User: 02943

Mar 11, 2019 - 4:31pm LTS: 1 PSLTS: 1 TWIST:
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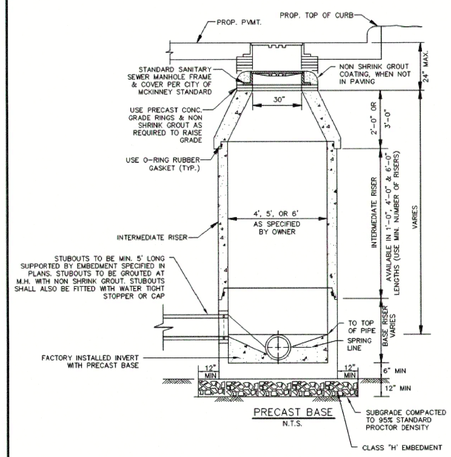


NOTE:
THIS DETAIL FOR USE ONLY WHEN NEW MAIN WILL NOT MATE WITH EXISTING MAIN JOINT DUE TO DIFFERENT DIMENSIONS OR MATERIALS AND A MANHOLE IS NOT REQUIRED.

WASTEWATER MAIN TIE-IN AT CLEANOUT OR M.H. STUBOUT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.10
		DATE Mar. 2018 / STANDARD DRAWING NO. R-5010

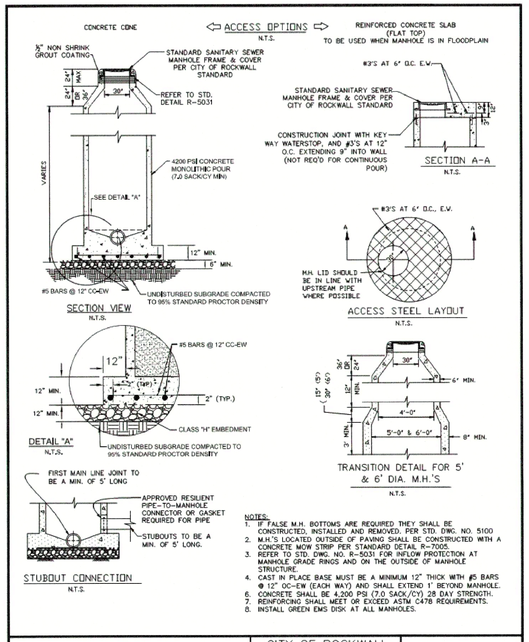
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NOTES:
1. FIRST MAIN LINE JOINT TO BE A MIN. OF 5' LONG.
2. IF FALSE M.H. ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED AND REMOVED PER STD. DWG. NO. 5100.
3. M.H.'S LOCATED OUTSIDE OF PAVING SHALL BE CONSTRUCTED WITH A CONCRETE MOW STRIP PER STD. DWG. NO. R-7005.
4. REFER TO STD. DWG. NO. R-5031 FOR INFLOW PROTECTION AT MANHOLE GRADE RINGS, MANHOLE JOINTS AND ON OUTSIDE OF STRUCTURE.
5. REFER TO STD. DWG. NO. R-5032 FOR CORROSION PROTECTION.
6. CONCRETE SHALL BE 4,200 PSI (7.0 SACK/CY) 28 DAY STRENGTH.
7. REINFORCING SHALL MEET OR EXCEED ASTM C478 REQUIREMENTS.
8. INSTALL GREEN EMS DISK AT ALL MANHOLES.
9. LIP TO BE PRECAST.



WASTEWATER MANHOLE PRECAST	CITY OF ROCKWALL	DATE AUG '19 / DRAWING NO. R-5020

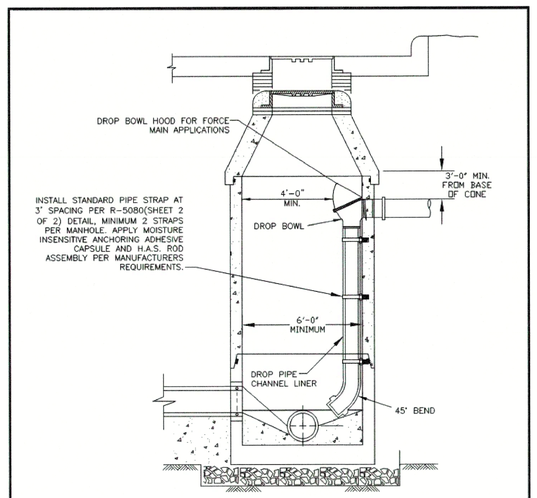
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NOTES:
1. 9" FALSE M.H. BOTTOMS ARE REQUIRED THEY SHALL BE CONSTRUCTED, INSTALLED AND REMOVED. PER STD. DWG. NO. 5100
2. M.H.'S LOCATED OUTSIDE OF PAVING SHALL BE CONSTRUCTED WITH A CONCRETE MOW STRIP PER STANDARD DETAIL R-7005.
3. REFER TO STD. DWG. NO. R-5031 FOR INFLOW PROTECTION AT MANHOLE GRADE RINGS AND ON THE OUTSIDE OF MANHOLE STRUCTURE.
4. CAST IN PLACE BASE MUST BE A MINIMUM 12" THICK WITH #5 BARS @ 12" OC-EW (EACH WAY) AND SHALL EXTEND 1' BEYOND MANHOLE.
5. CONCRETE SHALL BE 4,200 PSI (7.0 SACK/CY) 28 DAY STRENGTH.
6. REINFORCING SHALL MEET OR EXCEED ASTM C478 REQUIREMENTS.
7. INSTALL GREEN EMS DISK AT ALL MANHOLES.

WASTEWATER MANHOLE CAST-IN-PLACE	CITY OF ROCKWALL	DATE AUG '19 / DRAWING NO. R-5030

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NOTE:
1. DROP BOWL, DROP PIPE CHANNEL LINER AND STAINLESS STEEL PIPE CLAMPS AS MANUFACTURED BY RELINER/DURAN INC. OR APPROVED EQUAL.

SHEET 1 OF 2

WASTEWATER MANHOLE DROP CONNECTIONS	CITY OF ROCKWALL	DATE AUG '19 / DRAWING NO. R-5080

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HVA ADHESIVE CAPSULE ANCHOR
A. DRILL HOLES WITH ANSI/ETG 15 MATCHED TOLERANCE, CARBIDE TIPPED DRILL BITS WITH DRILL IN ROTO-HAMMER MODE OR USE A MATCHED TOLERANCE DIAMOND CORE DRILL BIT OF DIAMETER SPECIFIED BY HILTI.
B. DRILLED HOLE SPECIFICATIONS (DIAMETER & DEPTH) SHALL COMPLY WITH HILTI SPECIFICATION OR ICC ESR 1582.
C. ALLOWABLE LOADS MAY BE INCREASED BY 0%-15% FOR SHORT-TERM WIND OR SEISMIC LOAD RESISTANCE (AW ICC ESR 1682 UNLESS NOT PERMITTED BY THE APPLICABLE BUILDING CODE.
D. WHEN CONDUCTED, PROOF TEST ANCHORS IN THE FIELD TO 150-200% OF HILTI PUBLISHED ALLOWABLE TENSION LOAD UNLESS NOTED OTHERWISE IN A PROOF TEST LOAD TABLE. TORQUE TESTING IS NOT PERMITTED.
E. ANCHORS SHALL BE TIGHTENED WITH A CALIBRATED TORQUE WRENCH. USE OF AN IMPACT WRENCH IS NOT PERMITTED.
F. CONTACT HILTI TECHNICAL SUPPORT AT 1-800-879-8000 FOR INSTALLATION INSTRUCTIONS IN SUBMERGED WATER CONDITIONS.
G. CONTACT HILTI TECHNICAL SUPPORT AT 1-800-879-8000 FOR ADDITIONAL ASSISTANCE WITH HVA ADHESIVE ANCHOR INSTALLATIONS.
H. INSTALLATION INSTRUCTIONS:
H.1. FOR HVA ADHESIVE CAPSULES WITH H.A.S. THREADED RODS:
1. DRILL ANCHOR HOLE WITH A CARBIDE BIT (SEE NOTE 1 ABOVE). TO SPECIFIED EMBEDMENT DEPTH.
2. CLEAN HOLE WITH COMPRESSED AIR OR BLOW OUT PUMP. INSERT NOZZLE TO BOTTOM OF HOLE.
3. IF USING MATCHED TOLERANCE CORE BIT, REMOVE STANDING WATER FROM HOLE.
4. INSERT APPROPRIATE HVU CAPSULE INTO HOLE WITH POINTED END FIRST. CAPSULE LENGTH IS LONGER THAN STANDARD EMBEDMENT AND WILL PROTRUDE FROM HOLE. DO NOT CUT OFF ANY PART OF THE HVU CAPSULE.
5. THREAD NUT ONTO ROD.
6. PLACE A WASHER ON FIRST NUT AND THREAD BLACK SETTING NUT DOWN ON WASHER.
7. TIGHTEN NUTS TOGETHER SO THAT BLACK SETTING WASHER IS AT TOP OF ROD.
8. INSERT SQUARE DRIVE SHAFT INTO HAMMER DRILL AND ATTACH PROPER IMPACT SOCKET.
9. WITH HAMMER DRILL ON ROTARY HAMMER, ENGAGE TOP NUT OF HAS ROD ASSEMBLY AND ROTO-HAMMER ROD THROUGH CAPSULE(S) INTO THE HOLE. STOP DRILL ROTATION IMMEDIATELY UPON REACHING BOTTOM OF HOLE.
10. DO NOT DISTURB OR LOAD ANCHOR BEFORE CURING TIME ELAPSES.

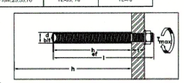
HVA INSTALLATION SPECIFICATION TABLE FOR H.A.S. RODS

DETAILS	HAS Rod Size		3/8	1/2	5/8	3/4	7/8	1	1-1/4
d_nom = nominal drill diameter		in.	11/32	9/16	11/16	7/8	1	1-1/8	1-3/8
h_nom = nominal embedment depth = capsule length		in.	3-1/2	4-1/4	5	6x0.8	6x0.8	9x0.8	12
t_fix max. thickness fastened		in.	1	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4
T_inst min. tightening torque	all drill Rods	ft-lb	18	30	75	150	175	235	400
h_1 minimum base material thickness	d_o = nominal	in.	5-1/4	6-3/8	7x1/2	10	10	12x3/8	18
	h_ef = h_nom	in.	1.25 x h_ef / 2	1.25 x h_ef / 2	1.25 x h_ef / 2	1.25 x h_ef / 2	1.25 x h_ef / 2	1.25 x h_ef / 2 1/4	1.25 x h_ef / 3
Recommended HILTI Rotary Hammer Drill			TE-CH, TE-YH, MM 26	TE-YH,25,55,76		TE-55, 76		TE-76	

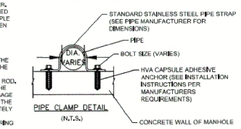
For SI: 1 inch = 25.4mm, 1ft-lb = 1.4 Nm

Curing Time Table (Approximate)

Approx. Curing Time	Base Material Temperature
20 Minutes	ABOVE 68° F/20° C
30 Minutes	50° F/10° C
1 Hour	32° F/0° C
5 Hour	23° F/-6° C



INSTALLATION INSTRUCTIONS:
1. SET THE DRILL DEPTH GAUGE AND DRILL A HOLE TO THE REQUIRED HOLE DEPTH. IMPORTANT: CLEAN OUT DUST AND DEBRIS. USE COMPRESSED AIR OR VACUUM AT BOTTOM OF THE HOLE. WHEN USING THE HILTI MATCHED TOLERANCE DIAMOND CORE BIT, IMMEDIATELY REMOVE STANDING WATER.
2. INSERT APPROPRIATE DIAMETER HVU ADHESIVE CAPSULE INTO PREASSEMBLED HOLE IN BASE MATERIAL. NOTE: THE BEST METHOD FOR SETTING MULTIPLE CAPSULES IS TO CRUSH THE FIRST CAPSULE(S) INTO THE HOLE AND THEN INSERT THE NEXT CAPSULE. DO NOT CUT OFF CAPSULES PARTIALLY PROTRUDING FROM THE HOLE.
3. CAPSULE LENGTH IS LONGER THAN STANDARD EMBED. DEPTH AND WILL PROTRUDE FROM THE HOLE.
4. THREAD H.A.S. NUT ON THE H.A.S. ROD. PLACE A WASHER ON TOP OF THE FIRST NUT AND THEN THREAD A BLACK SETTING NUT DOWN ON TOP OF THE WASHER. TIGHTEN THE TWO NUTS TOGETHER LOCKING THE WASHER BETWEEN THEM. THE TOP NUT SHOULD BE FLUSH WITH THE TOP OF THE ROD.
5. INSERT A SQUARE DRIVE SHAFT INTO THE HAMMER DRILL AND ATTACH THE PROPER IMPACT SOCKET. AT THE ROTARY HAMMER DRILL AND STEEL ENGAGE THE TOP NUT OF THE HAS ROD ASSEMBLY WITH THE SOCKET AND DRIVE THE ROD DOWN THROUGH THE CAPSULE(S). STOP DRILL ROTATION IMMEDIATELY UPON REACHING BOTTOM OF HOLE.
6. DO NOT DISTURB OR LOAD THE SET ANCHOR BEFORE THE SPECIFIED CURING TIME ELAPSES.

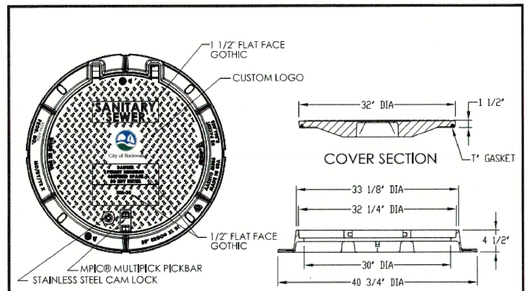


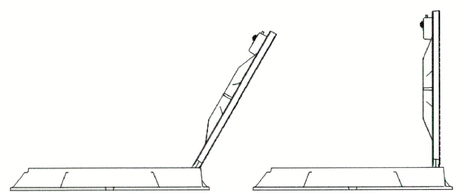
DROP FIXTURE ANCHOR
(N.T.S.)

SHEET 2 OF 2

WASTEWATER MANHOLE DROP CONNECTIONS	CITY OF ROCKWALL	DATE AUG '19 / DRAWING NO. R-5080

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WASTEWATER MANHOLE HINGED RIM AND COVER	CITY OF ROCKWALL	DATE AUG '19 / DRAWING NO. R-5101

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER DETAILS

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

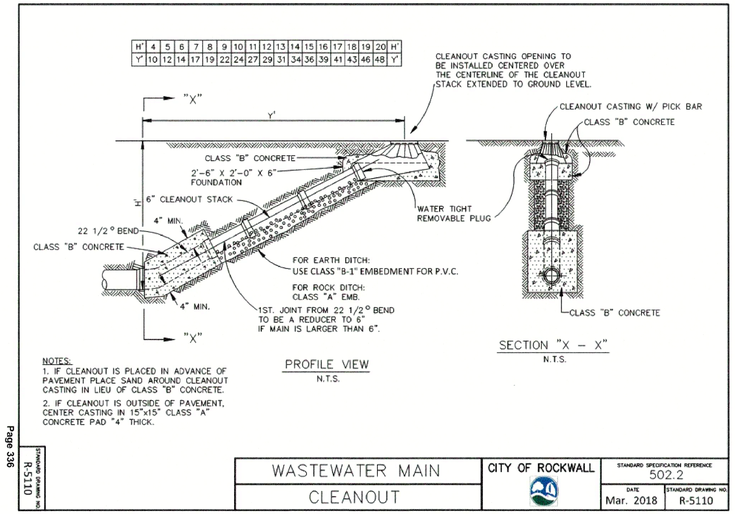
Johnson Volk Consulting, Inc.

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STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

JVC No 502

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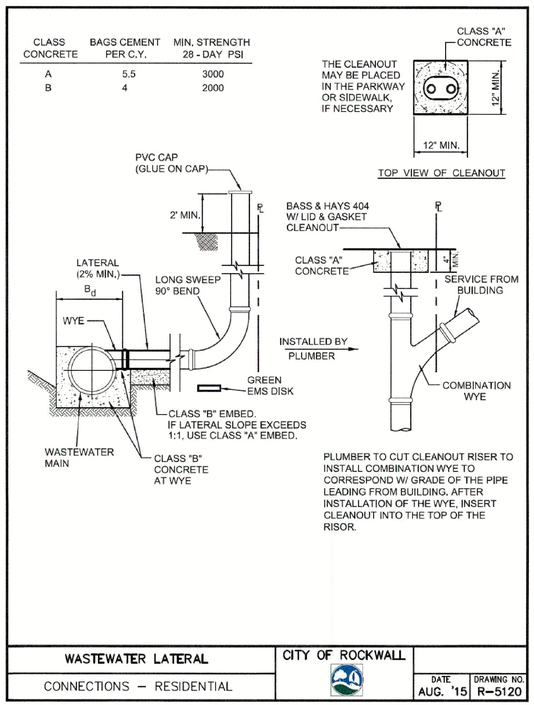


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WASTEWATER MAIN	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.2
CLEANOUT		DATE Mar. 2018 / STANDARD DRAWING NO. R-5110

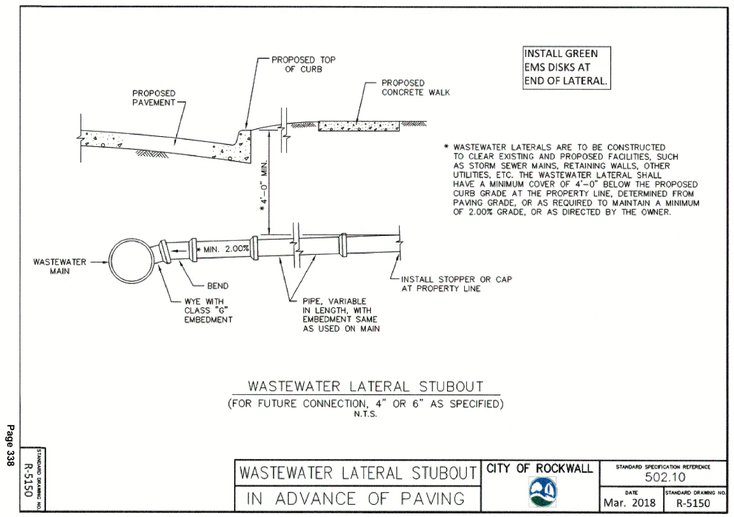
Standard Drawing No. R-5110

CLASS CONCRETE	BAGS CEMENT PER C.Y.	MIN. STRENGTH 28 - DAY PSI
A	5.5	3000
B	4	2000



WASTEWATER LATERAL	CITY OF ROCKWALL	
CONNECTIONS – RESIDENTIAL		DATE AUG. '15 / DRAWING NO. R-5120

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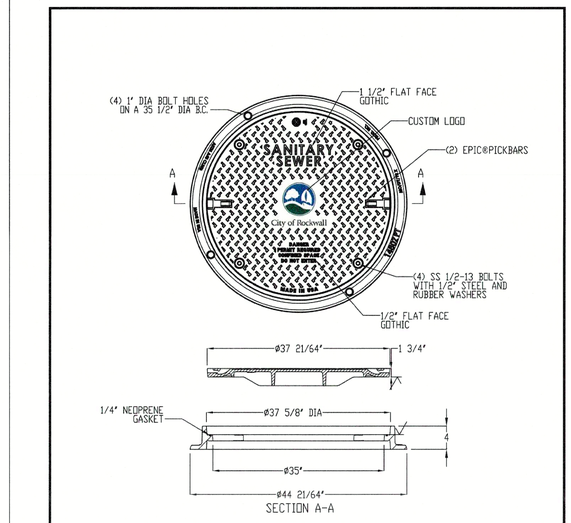


WASTEWATER LATERAL STUBOUT
(FOR FUTURE CONNECTION, 4" OR 6" AS SPECIFIED)
N.T.S.

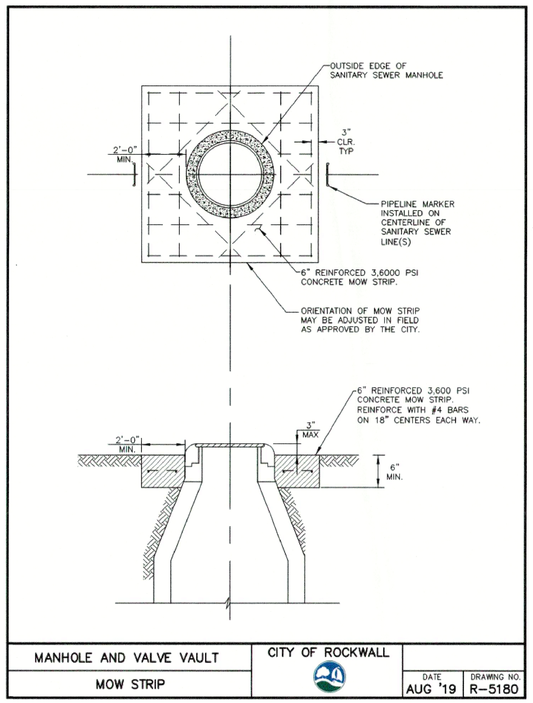
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Standard Drawing No. R-5150

WASTEWATER LATERAL STUBOUT IN ADVANCE OF PAVING	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.10
		DATE Mar. 2018 / STANDARD DRAWING NO. R-5150

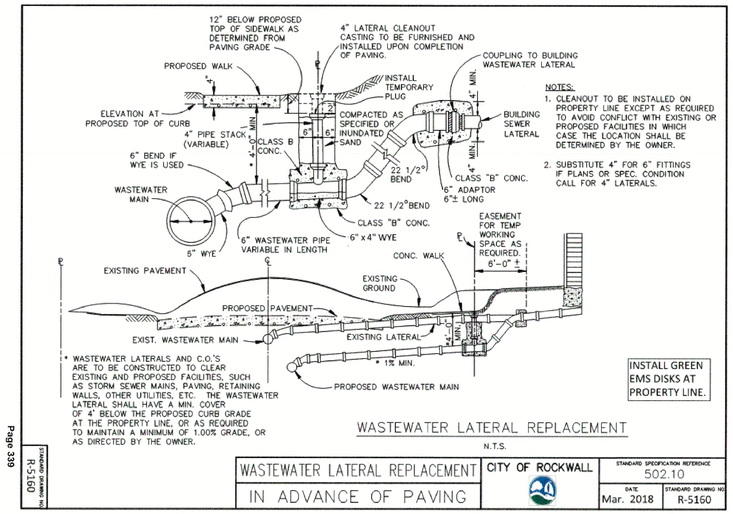


WASTEWATER MANHOLE	CITY OF ROCKWALL	
BOLT AND GASKET RIM AND COVER		DATE AUG '19 / DRAWING NO. R-5102



MANHOLE AND VALVE VAULT	CITY OF ROCKWALL	
MOW STRIP		DATE AUG '19 / DRAWING NO. R-5180

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WASTEWATER LATERAL REPLACEMENT
N.T.S.

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Standard Drawing No. R-5160

WASTEWATER LATERAL REPLACEMENT IN ADVANCE OF PAVING	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 502.10
		DATE Mar. 2018 / STANDARD DRAWING NO. R-5160

RECORD DRAWING

To the best of our knowledge, Johnson Volk Consulting, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor. The original sealed drawings are on file at the offices of:

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JOHNSON VOLK CONSULTING
TBPELS Engineering Firm No. 11962 / Land Surveying Firm No. 10194033
704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

PARK HILLS
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

WASTE WATER DETAILS

STATE OF TEXAS
THOMAS K. DAYTON
91751
LICENSED PROFESSIONAL ENGINEER
05/19/2023

JVC No 502

57

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BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS		OPENING LENGTH "L" = 5ft Widths "W" 3ft			OPENING LENGTH "L" = 10ft Widths "W" 3ft			OPENING LENGTH "L" = 15 ft Widths "W" 3ft			OPENING LENGTH "L" = 20 ft Widths "W" 3ft		
	BARS C	BARS D	BARS E	BARS F	BARS G	BARS H	BARS I	BARS J	BARS K	BARS L	BARS M	BARS N	BARS O	BARS P
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18
3'-9"	18	"	"	"	"	"	"	"	"	20	"	"	"	"
4'-0"	19	"	"	"	"	"	"	"	"	24	"	"	"	"
4'-3"	19	"	"	"	"	"	"	"	"	24	"	"	"	"
4'-6"	21	"	"	"	"	"	"	"	"	26	"	"	"	"
4'-9"	21	"	"	"	"	"	"	"	"	26	"	"	"	"
5'-0"	21	"	"	"	"	"	"	"	"	26	"	"	"	"
5'-3"	23	"	"	"	"	"	"	"	"	28	"	"	"	"
5'-6"	23	"	"	"	"	"	"	"	"	28	"	"	"	"
5'-9"	25	"	"	"	"	"	"	"	"	30	"	"	"	"
6'-0"	25	"	"	"	"	"	"	"	"	30	"	"	"	"
6'-3"	26	"	"	"	"	"	"	"	"	32	"	"	"	"
6'-6"	27	"	"	"	"	"	"	"	"	32	"	"	"	"
6'-9"	27	"	"	"	"	"	"	"	"	32	"	"	"	"
7'-0"	29	"	"	"	"	"	"	"	"	34	"	"	"	"
7'-3"	29	"	"	"	"	"	"	"	"	34	"	"	"	"
7'-6"	30	"	"	"	"	"	"	"	"	36	"	"	"	"
7'-9"	31	"	"	"	"	"	"	"	"	36	"	"	"	"
8'-0"	31	"	"	"	"	"	"	"	"	36	"	"	"	"
8'-3"	32	"	"	"	"	"	"	"	"	36	"	"	"	"
8'-6"	33	"	"	"	"	"	"	"	"	38	"	"	"	"
8'-9"	34	"	"	"	"	"	"	"	"	38	"	"	"	"
9'-0"	35	"	"	"	"	"	"	"	"	40	"	"	"	"
9'-3"	36	"	"	"	"	"	"	"	"	40	"	"	"	"
9'-6"	37	"	"	"	"	"	"	"	"	42	"	"	"	"
10'-0"	38	"	"	"	"	"	"	"	"	42	"	"	"	"

| | | |