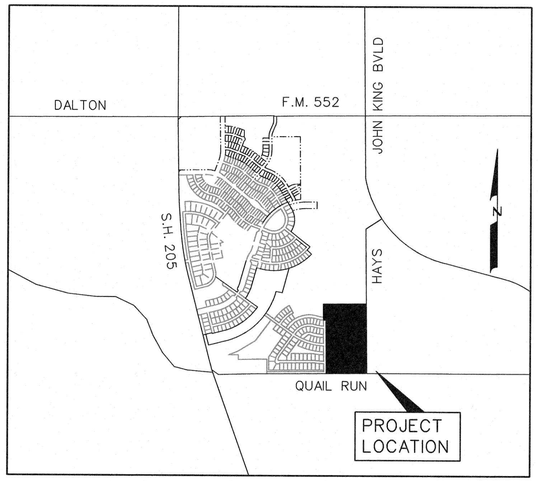
STONE CREEK PHASE VIII
16044

DEVELOPMENT PLANS
FOR
STONE CREEK
PHASE VIII

CITY OF ROCKWALL, TEXAS



LOCATION MAP

INDEX

PREPARED FOR

STONE CREEK PHASE 8, LTD.

8214 WESTCHESTER DRIVE, SUITE 710, DALLAS, TEXAS 75225

CORWIN ENGINEERING, INC. — CONSULTING ENGINEERS

200 W. BELMONT, SUITE E — TBPE FIRM *5951 — ALLEN, TEXAS 75013

STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER
9-17-18

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.
ELEV.- 525.31

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

NOTE:

CITY OF ROCKWALL STANDARDS AND NCTCOG 3rd ADDITION STANDARDS SHALL BE USED FOR REFERENCE.

NO.	REVISIONS	DATE

OCTOBER 2016

R.O.W. — 25' X 25' VISIBILITY ESMT. — R.O.W.

ALL STREET INTERSECTIONS

VISIBILITY & SIDEWALK EASEMENT DETAIL
N.T.S.

NOTES

1. Bearing are referenced to Stone Creek Phase I (Cab. G, Slide 359-365).
2. All lot lines are radial or perpendicular to the street unless otherwise noted by bearing.
3. ½" iron rods with "CORWIN ENGR. INC." caps set at all boundary corners, block corners, points of curvature, points of tangency, and angle points in public right-of-way unless otherwise noted.
4. B.L. - Building Line.
   U.E. - Utility Easements.
   C.M. - Controlling Monument.
   D.E. - Drainage Easement
   V.A.M.S. - Visibility, Maintenence & Sidewalk Easement
   ◊ - Street Name Change
5. The HOA will be responsible for maintaining the open space/drainage easement lots. (Lot 30 Block X, Lot 21 Block CC, Lot 21 Block DD, Lot 21 Block EE, Lot 1 Block FF)

CURVE TABLE

CURVE NO.	DELTA	RADIUS	LENGTH	TANGENT	CHORD	BEARING
1.	12°57'14"	1510.00'	341.39'	171.43'	340.67'	N82°57'43"E
2.	12°55'19"	415.00'	93.59'	47.00'	93.40'	N82°56'45"E
3.	176°41'01"	55.00'	169.60'	----'	109.95'	N44°24'25"E
4.	14°17'33"	220.00'	54.88'	27.58'	54.74'	N82°15'38"E
5.	14°19'41"	1355.00'	338.85'	170.31'	337.97'	S82°16'43"W
6.	14°19'47"	1295.00'	323.88'	162.79'	323.04'	N82°16'46"E
7.	14°17'33"	280.00'	69.85'	35.11'	69.66'	N82°15'38"E
8.	14°17'33"	425.00'	106.02'	53.28'	105.74'	S82°15'38"W
9.	14°20'04"	1150.00'	287.71'	144.61'	286.96'	S82°16'54"W
10.	14°20'26"	1005.00'	251.54'	126.43'	250.89'	N82°17'05"E
11.	14°17'33"	570.00'	142.19'	71.46'	141.82'	N82°15'38"E
12.	14°11'56"	630.00'	156.13'	78.47'	155.73'	N82°18'26"E
13.	14°24'04"	945.00'	237.52'	119.39'	236.90'	S82°24'30"W
14.	14°26'16"	800.00'	201.59'	101.33'	201.06'	N82°26'36"E
15.	14°11'56"	775.00'	192.06'	96.52'	191.57'	N82°18'26"E
16.	14°11'56"	920.00'	227.99'	114.58'	227.41'	S82°18'26"W
17.	14°29'27"	655.00'	165.66'	83.27'	165.22'	S82°27'11"W
18.	14°31'12"	595.00'	150.79'	75.80'	150.38'	N82°28'04"E
19.	14°11'56"	980.00'	242.86'	122.06'	242.24'	N82°18'26"E
20.	15°20'18"	825.00'	220.86'	111.09'	220.20'	N85°53'57"E
21.	11°10'37"	1125.00'	219.46'	110.08'	219.11'	N83°49'06"E

LINE TABLE

LINE NO.	BEARING	DISTANCE
1.	N 45°35'35" W	21.21'
2.	N 45°30'29" W	42.49'
3.	S 44°24'25" W	35.36'
4.	S 45°35'35" E	35.36'
5.	S 44°29'30" W	42.36'

FINAL PLAT OF STONE CREEK PHASE VIII

TOTAL RESIDENTIAL LOTS 102
TOTAL ACRES 28.655

OUT OF THE

S. KING SURVEY, ABSTRACT NO. 131

IN THE

CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

OWNER
STONE CREEK PHASE 8, LTD.
8214 WESTCHESTER DRIVE, SUITE 710
DALLAS, TEXAS 75225
214-522-4945

PREPARED BY
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013
972-396-1200

OCTOBER 2017 SCALE 1" = 100'

CASE NO. P2017-023

SHEET 1 OF 2

OWNER'S CERTIFICATE

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:
STATE OF TEXAS
COUNTY OF ROCKWALL
We the undersigned owners of the land shown on this plat, and designated herein as the STONE CREEK PHASE VIII, subdivision to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. We further certify that all other parties who have a mortgage or lien interest in the STONE CREEK PHASE VIII, subdivision have been notified and signed this plat.

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. 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 their 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. The detention drainage system is to be maintained, repaired and owend by the subdivision.

7. 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 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 for the same out of the escrow deposit, should the developer and/or owner fail or 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 time shall be fixed by the city council of the City of Rockwall.

We further acknowledge that the dedications and/or exaction's 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; we, our successors and assigns hereby waive any claim, damage, or cause of action that we may have as a result of the dedication of exactions made herein.

Stone Creek Phase 8, Ltd.
an Texas limited partnership
By: Stone Creek Phase 8 GP Corporation,
a Texas corporation, its General Partner

Richard Skorburg
President

STATE OF TEXAS
COUNTY OF DALLAS
Before me, the undersigned authority, on this day personally appeared RICHARD SKORBURG, 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 upon my hand and seal of office this 31 day of October, 2017.

Notary Public in and for the State of Texas My Commission Expires: 6-30-2019 Patricia Snyder

NOTE: It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building within such plat shall be approved, authorized or permit therefore issued, nor shall such approval constitute any representation, assurance or guarantee by the City of the adequacy and availability for water for personal use and fire protection within such plat, as required under Ordinance 83-54.

Planning & Zoning Commission — Date 5/1/17

PATRICIA SNYDER
Notary Public, State of Texas
Comm. Expires 06-30-2019
Notary ID 128660037

APPROVED

I hereby certify that the above and foregoing plat of an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall on the 15 day of May, 2017.

This approval shall be invalid unless the approved plat for such addition is recorded in the office of the Counrt Clerk of Rockwall, County, Texas, within one hundred eighty (180) days from said date of final approval.

WITNESS OUR HANDS, this 24th day of January, 2018.

Mayor, City of Rockwall — City Secretary Kristy Cole — City Engineer Amy Williams

LEGAL DESCRIPTION

WHEREAS, STONE CREEK PHASE 8, LTD., is the owner of a tract of land situated in the S. King Survey, Abstract No. 131 in the City of Rockwall, Rockwall County, Texas, being part of a tract of land as described in Stone Creek Balance LTD., Clerks File No. 2007-00375394 in the Deed Records of Rockwall County, Texas, and being more particularly described as follows:

BEGINNING, at a "X" cut found at the most southeast corner of Stone Creek Phase VII, an addition to the City of Rockwall, as described in Cabinet I, Pages 392-394, in the Plat Records of Rockwall County, Texas;

THENCE, North 00° 35'35" West, along the east line of said Stone Creek Phase VII, for a distance of 1080.02 feet, to a ½ inch iron rod found, on a non-tangent curve to the right, having a radius of 655.00 feet, a central angle of 04° 22'44", and a tangent of 25.04 feet;

THENCE, continuing along said east line and with said curve to the right for an arc distance of 50.06 feet (Chord Bearing North 88° 06'43" West - 50.05 feet), to a ½ inch iron rod found;

THENCE, North 00° 35'35" West, continuing along said east line at 60.22 feet, passing a ½ inch iron rod found at the northeast corner of said Stone Creek Phase VII, and continuing for a total distance of 191.20 feet, to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.";

THENCE, North 03° 34'06" East, for a distance of 50.00 feet, to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", on a non-tangent curve to the left, having a radius of 800.00 feet, a central angle of 01° 08'34", and a tangent of 7.98 feet;

THENCE, along said curve to the left for an arc distance of 15.96 feet (Chord Bearing South 87° 00'11" East - 15.96 feet), to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.";

THENCE, North 02° 25'32" East, for a distance of 120.00 feet, to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", on a curve to the left, having a radius of 680.00 feet, a central angle of 14° 11'44", and a tangent of 84.67 feet;

THENCE, along said curve to the left for an arc distance of 168.48 feet (Chord Bearing North 85° 19'40" East - 168.05 feet), to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", at the point of reverse curvature of a curve to the right, having a radius of 1270.00 feet, a central angle of 11° 10'37", and a tangent of 124.27 feet;

THENCE, along said curve to the right for an arc distance of 247.74 feet (Chord Bearing North 83° 49'06" East - 247.35 feet), to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", at the point of tangency;

THENCE, North 89° 24'25" East, for a distance of 448.33 feet, to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", in the east line of said Stone Creek Balance tract being in Hayes Road (Variable R.O.W);

THENCE, South 00° 35'35" East, along the east line of said Stone Creek Balance tract and with said Hayes Road, for a distance of 1480.61 feet, to a ½ inch iron rod set with a yellow cap stamped with "Corwin Eng. Inc.", being the southeast corner of said Stone Creek Balance tract and being the approximate centerline of said Hayes Road and Quail Run Road (Variable R.O.W.);

THENCE, South 89° 34'36" West, along the south line of said Stone Creek Balance tract and with said Quail Run Road, at 417.06, passing the northeast corner of Quail Run Valley No. 2, an addition to the City of Rockwall, as described in Cab. E, Pg. 185, in said Plat Records, and continuing along the north line of said Quail Run Valley No. 2, for a total distance of 838.00 feet, to the POINT OF BEGINNING and containing 28.655 acres of land.

SURVEYOR CERTIFICATE

I, WARREN L. CORWIN, do hereby certify that the plat shown hereon accurately represents the results of an on-the-ground survey made under my direction and supervision and all corners are as shown thereon and there are no encroachments, conflicts, protrusions or visible utilities on the ground except as shown and said plat has been prepared in accordance with the platting rules and regulations of the City Plan Commission of the City of Rockwall, Texas.

DATED the this 24 day of Oct, 2017.

WARREN L. CORWIN
R.P.L.S. No. 4621

STATE OF TEXAS
REGISTERED
WARREN L. CORWIN
4621
PROFESSIONAL
LAND SURVEYOR

THE STATE OF TEXAS
COUNTY OF COLLIN

BEFORE ME, the undersigned, a Notary Public in and for the State of Texas, on this day personally appeared WARREN L. CORWIN, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in the capacity therein stated and for the purposes and considerations therein expressed.

WITNESS MY HAND AND SEAL OF OFFICE, this the 24 day of Oct., 2017.

Notary Public in and for the State of Texas

MARIA HALLFORD
My Notary ID # 126048221
Expires January 27, 2020

Filed and Recorded
Official Public Records
Shelli Miller, County Clerk
Rockwall County, Texas
03/06/2018 11:29:24 AM
$100.00
20180000003835

ROCKWALL COUNTY, TEXAS COUNTY CLERK

COPY

5290

FINAL PLAT
OF
STONE CREEK PHASE VIII

TOTAL RESIDENTIAL LOTS 102
TOTAL ACRES 28.655

OUT OF THE

S. KING SURVEY, ABSTRACT NO. 131

IN THE

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ROCKWALL COUNTY, TEXAS

OWNER
STONE CREEK PHASE 8, LTD.
8214 WESTCHESTER DRIVE, SUITE 710
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PREPARED BY
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
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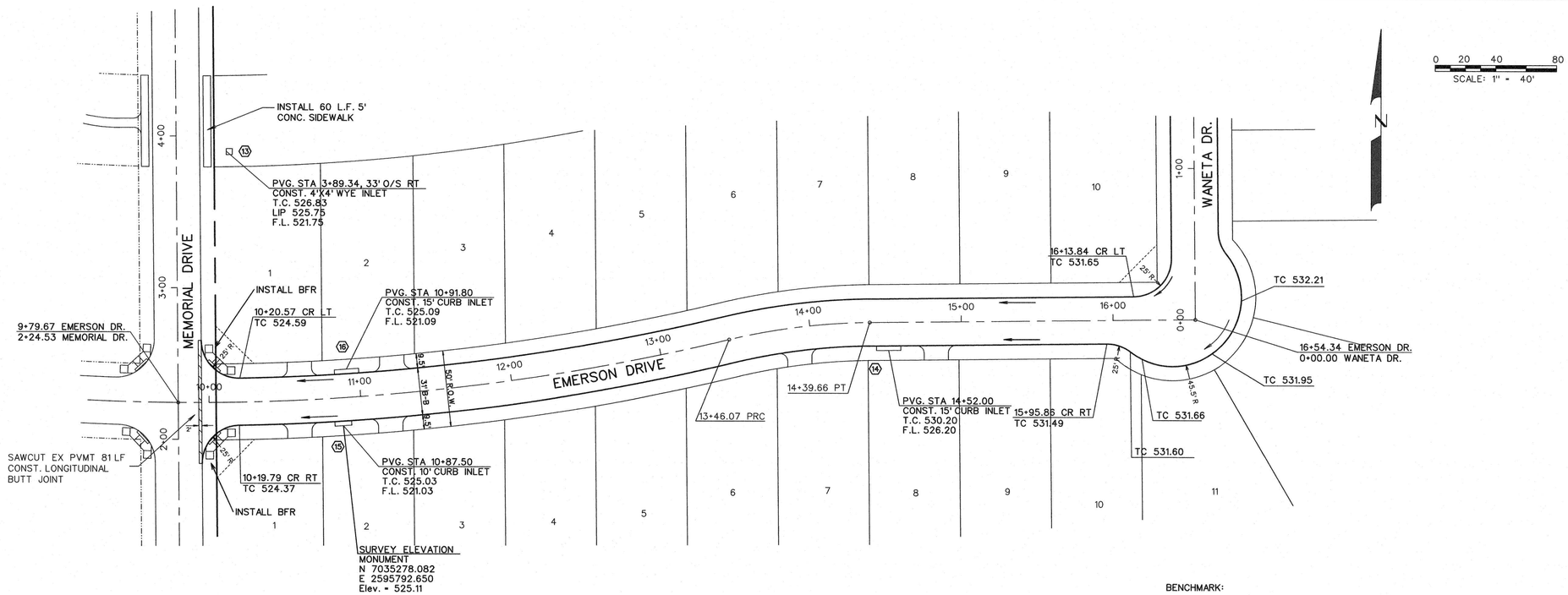
972-396-1200

OCTOBER 2017

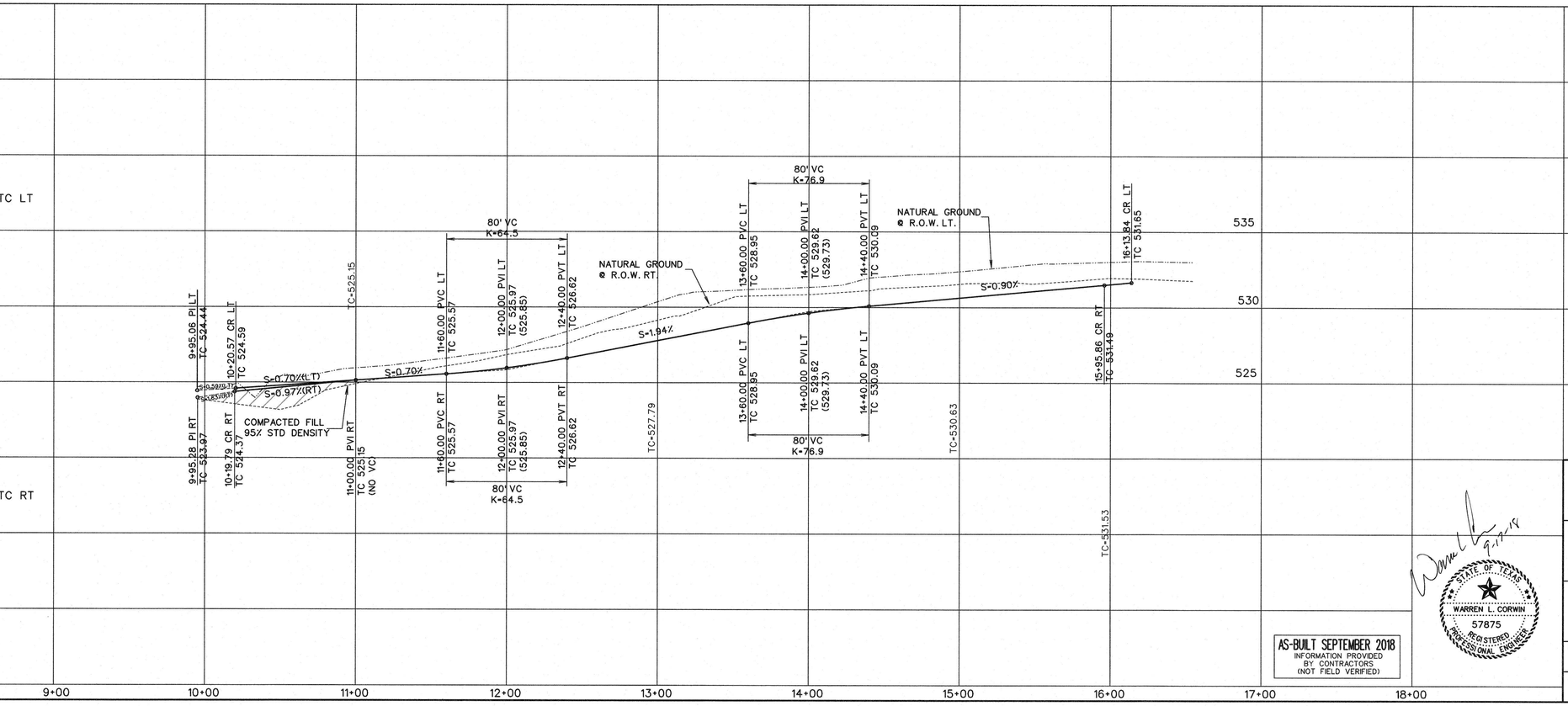
CASE NO. P2017-023 SHEET 2 OF 2



BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.

ELEV.= 525.31



AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

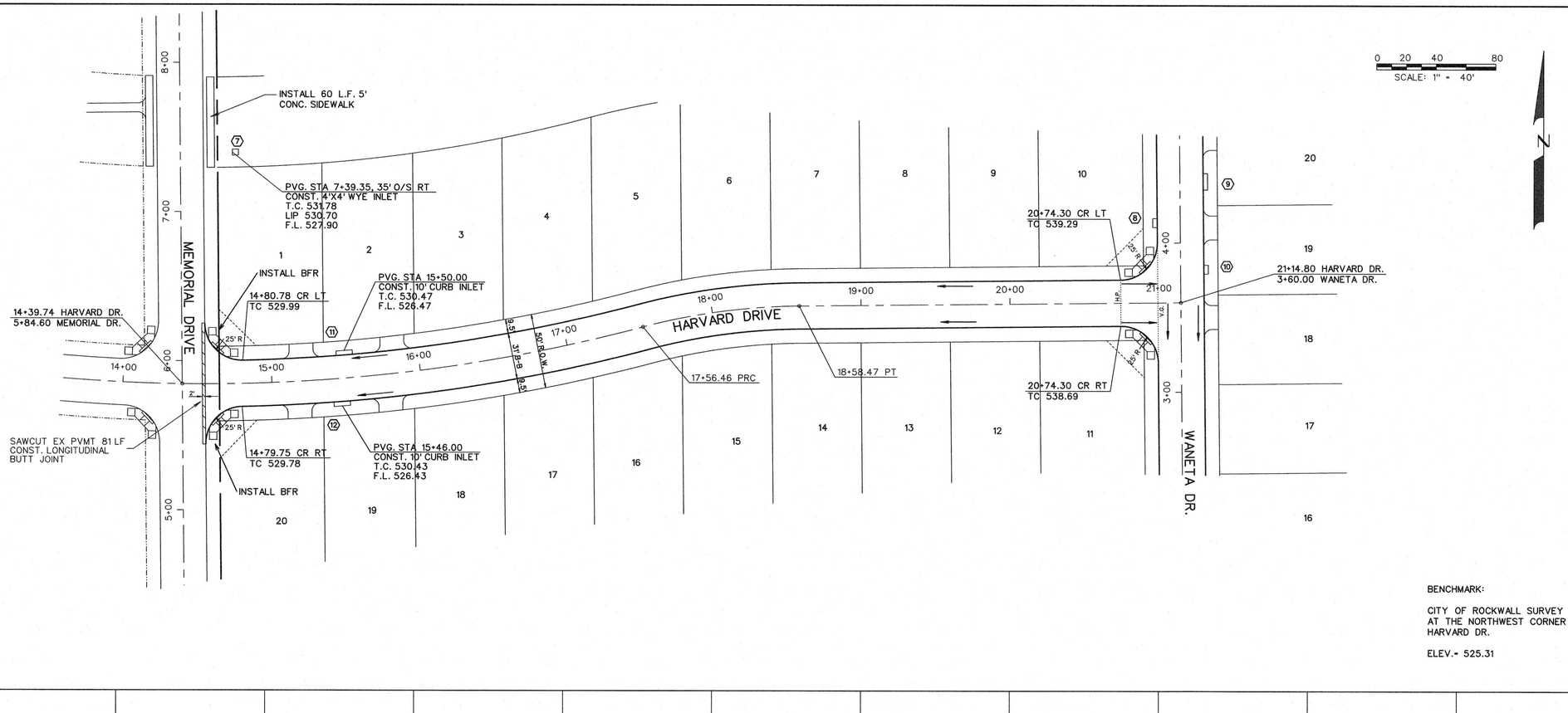
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER
9-21-18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

EMERSON DRIVE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	3 OF 32



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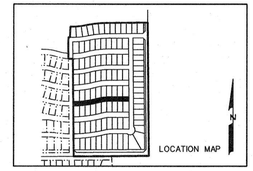

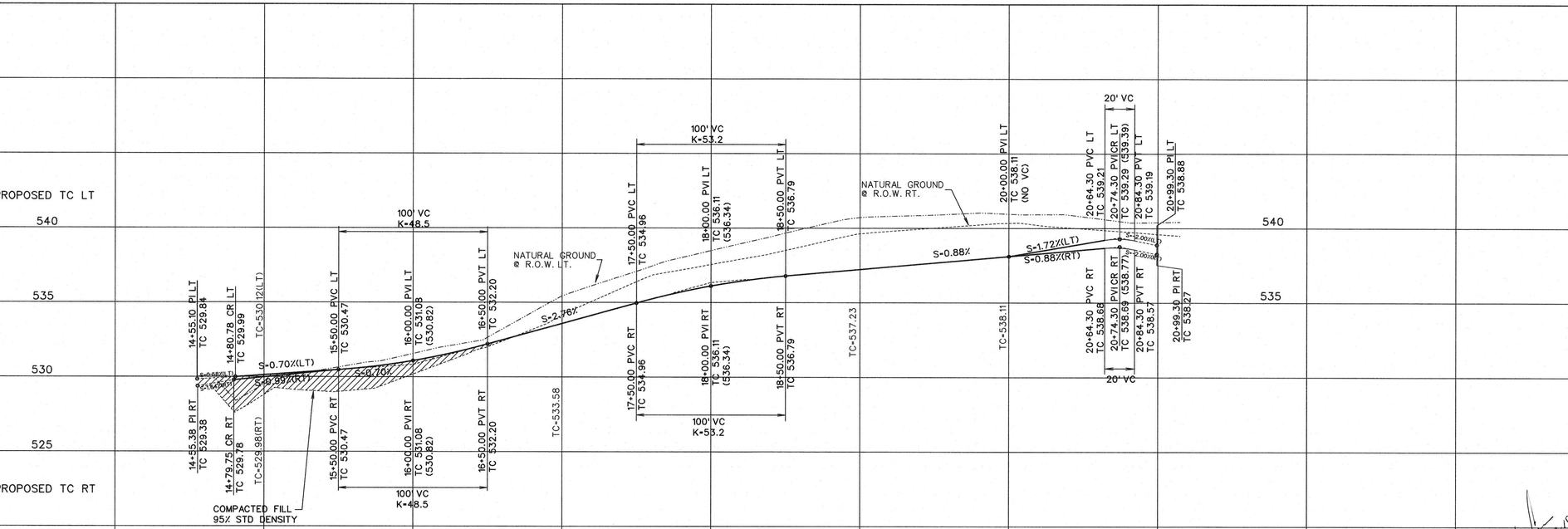

AS-BUILT SEPTEMBER 2018
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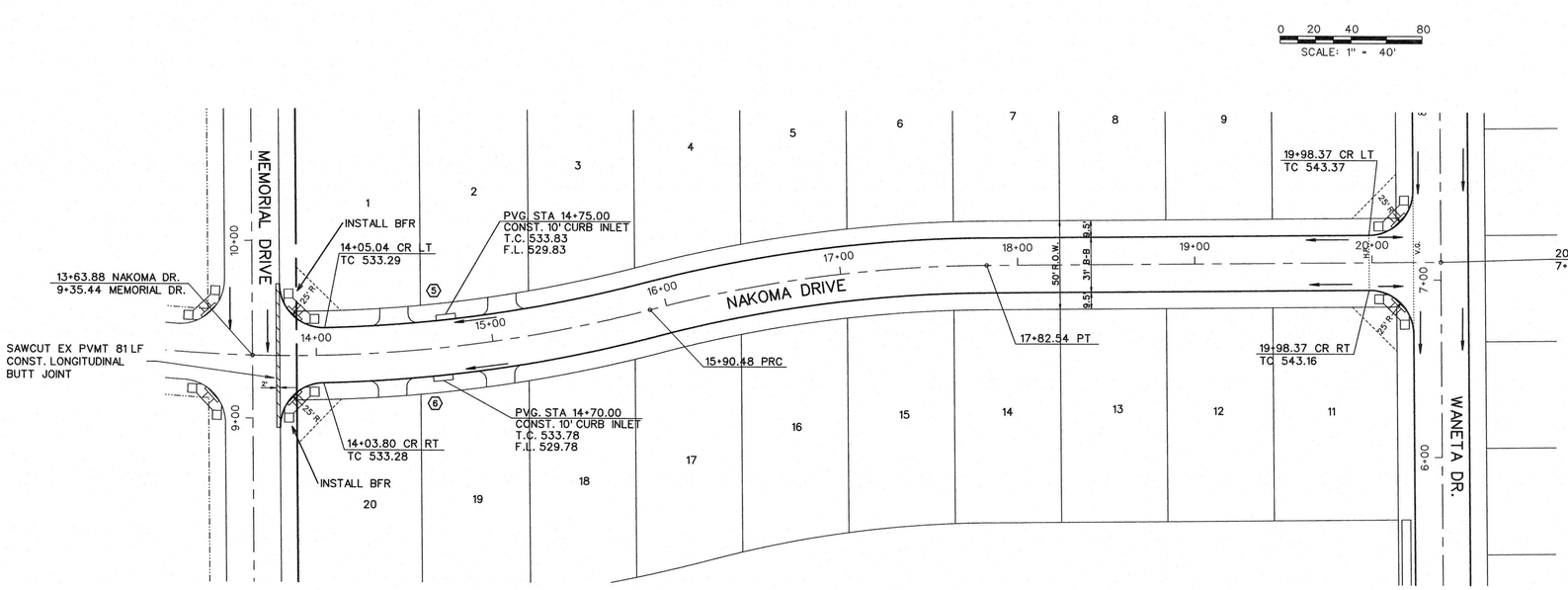
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER

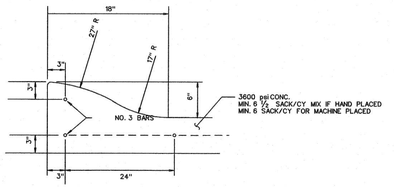
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

HARVARD DRIVE

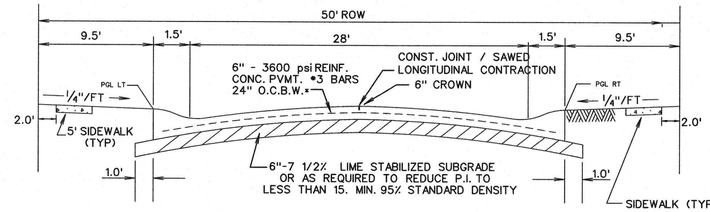
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	4 OF 32





MONOLITHIC CURB

N.T.S.



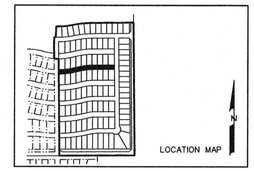
TYPICAL PAVEMENT SECTION - LAYDOWN CURB

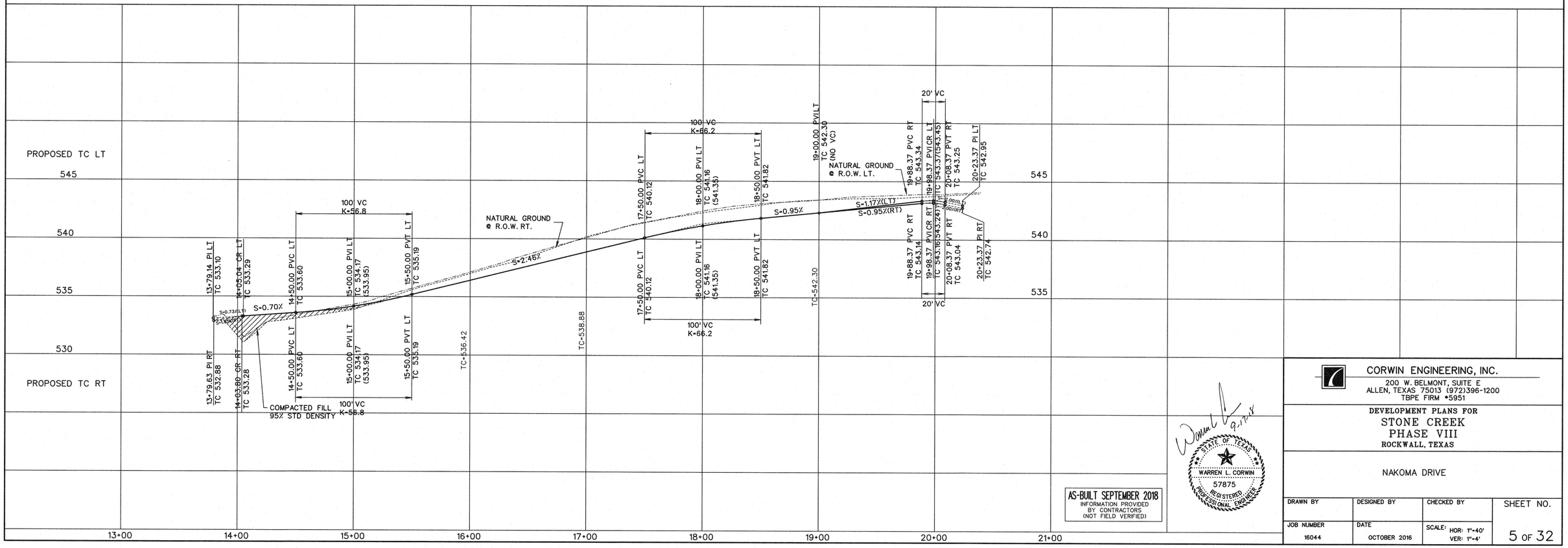
N.T.S.

*MIN. 6 ½ SACK/CY MIX IF HAND PLACED
MIN. 6 SACK/CY FOR MACHINE PLACED

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET
AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND
HARVARD DR.
ELEV.= 525.31





AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

NAKOMA DRIVE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	5 OF 32

SCALE: 1" = 40'

9+98.55 BEGIN PVMT. LT.
TC 533.91

10+35.53 MONTROSE DR.
12+96.89 MEMORIAL DR.

PVG. STA 10+47.00
CONST. 15' CURB INLET
T.C. 534.24
F.L. 530.24

PVG. STA 12+51.00
CONST. 15' CURB INLET
T.C. 536.06
F.L. 532.06

CONST. STREET HEADER
INSTALL STD. BARRICADE
(42' L.F.)

9+98.55 BEGIN PVMT. RT.
TC 533.91

10+75.86 CR RT
TC 534.44

25'x25' VISIBILITY & SIDEWALK ESMT

PVG. STA 11+42.50
CONST. 10' CURB INLET
T.C. 534.91
F.L. 530.91

12+33.16 PRC

14+52.62 PRC

16+68.45 CR RT
TC 541.21

17+08.95 MONTROSE DR.
10+60.00 WANETA DR.

CAUTION:
NTMWD 30" WATERLINE

NO LIME IN PAVEMENT AREA
USE 8" CONC. PVMT.
OVER NTMWD 30" WL

18+58.06 CR LT
TC 544.13

17+49.45 CR RT
TC 542.09

18+57.90 CR RT
TC 544.46

PVG. STA 10+89.97, 33' O/S RT
CONST. 4'X4' WYE INLET
T.C. 534.32
LIP 533.24
F.L. 529.24

19+03.48 MONTROSE DR.
13+35.61 HAYS RD.

1+50.00 TIE TO EX. PVMT. LT.
TC 534.48

INSTALL 60 LF
5' SIDEWALK

1+50.00 TIE TO EX. PVMT. RT.
TC 534.48

12+59.02 CR LT
TC 534.46

12+55.58 CR RT
TC 534.52

10+35.53 MONTROSE DR.
12+96.89 MEMORIAL DR.

MONTROSE DRIVE

MEMORIAL DRIVE

HAYS RD.

WANETA DR.

LOCATION MAP

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.

ELEV.= 525.31

PROPOSED TC LT

PROPOSED TC RT

9+98.55 BEGIN PVMT. LT. TC 533.91

9+98.55 BEGIN PVMT. RT. TC 533.91

10+20.97 PI RT TC 534.06

10+51.43 PI RT TC 534.27

10+75.86 CR RT TC 534.44

12+00.00 PVI LT TC 535.31 (NO VC)

12+00.00 PVI RT TC 535.31 (NO VC)

15+00.00 PVI TC539.70

NATURAL GROUND @ R.O.W. RT.

NATURAL GROUND @ R.O.W. LT.

S=0.70%

S=1.46%

S=0.90%

S=2.43%(RT)

S=2.11%(LT)

16+68.45 CR RT TC 541.21

16+93.45 PI RT TC 541.44

17+10.00 PVC RT TC 541.59

17+10.00 PVC LT TC 541.59

17+24.45 PI RT TC 541.74

17+49.45 CR RT TC 542.09

17+50.00 PVI RT TC 542.11 (541.95)

17+50.00 PVI LT TC 542.06 (541.95)

17+90.00 PVT RT TC 542.92

17+90.00 PVT LT TC 542.79

80' VC K=66.1

80' VC K=52.3

20' VC

18+47.90 PVC RT TC 544.33

18+48.06 PVC LT TC 544.02

18+57.90 PVI/CR RT TC 544.46 (544.57)

18+58.06 PVI/CR LT TC 544.13 (544.23)

18+67.90 PVT RT TC 544.37

18+68.06 PVC LT TC 544.03

18+82.95 PI RT TC 544.07

18+83.10 PI LT TC 543.73

COMPACTED FILL 95% STD DENSITY

EX. 30" WL NTMWD TOP 539.1

20' NTMWD WL ESMT

1+50.00 TIE TO EX. PVMT. LT. TC 534.48

1+50.00 TIE TO EX. PVMT. RT. TC 534.48

11+65.00 PVC LT TC 534.59

11+65.00 PVC LT TC 534.59

12+05.00 PVI LT (HP) TC 534.73 (534.87)

12+05.00 PVT LT TC 534.59

12+45.00 PVT LT TC 534.59

12+55.58 CR RT TC 534.52

12+80.84 PI RT TC 534.27

12+82.19 PI LT TC 534.08

12+82.19 PI LT (HP) TC 534.06

12+45.00 PVT LT TC 534.49

12+49.02 PVC LT TC 534.56

12+59.02 CR LT PVI TC 534.46(434.49)

12+69.02 PVT LT TC 534.30

NATURAL GROUND @ R.O.W. LT.

NATURAL GROUND @ R.O.W. RT.

EX. S=0.70%

S=-0.70%

S=-0.97%(RT)

S=-1.86%(LT)

MONTROSE DRIVE

MEMORIAL DRIVE

TC-533.91

TC-534.61

TC-535.31

TC-536.77

TC-538.24

TC-539.70

TC-540.60

TC-541.50

TC-543.00 LT

TC-543.16 RT

TC-534.73

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00

AS-BUILT SEPTEMBER 2018
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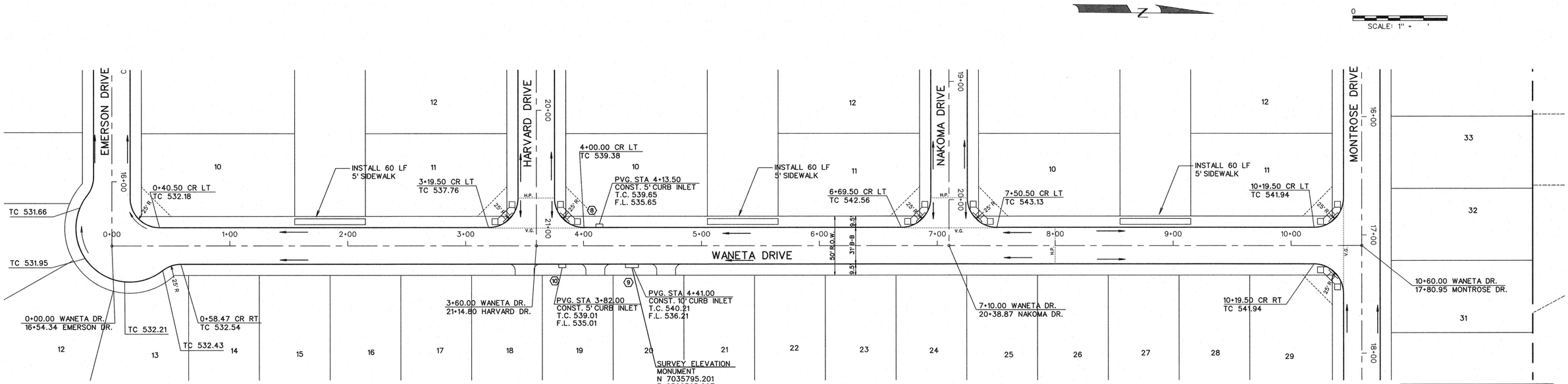
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER

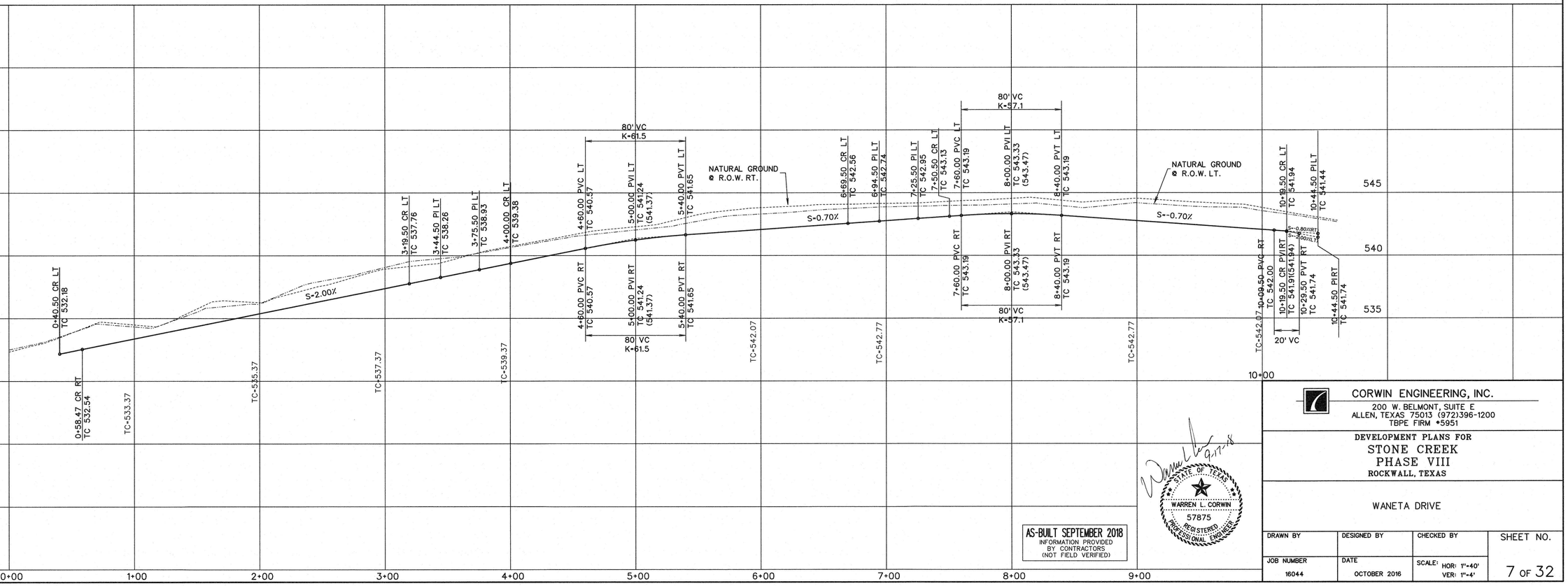
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

MONTROSE DRIVE
MEMORIAL DRIVE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	6 OF 32





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STATE OF TEXAS
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57875
REGISTERED PROFESSIONAL ENGINEER
9-17-18

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TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

WANETA DRIVE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
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SCALE: 1" = 40'

N

MEMORIAL DR.

HAYS RD.

QUAIL RUN ROAD

19+67.85 TIE TO EX PVMT LT
TC 520.77

PVG. STA 19+80.85
CONST. 5' CURB INLET
T.C. 520.89
F.L. 516.89

19+70.00 CR
TC 521.49

PVG. STA 20+74.00
CONST. 10' CURB INLET
T.C. 521.73
F.L. 517.73

REMOVE 620 SY CONC PVMT

INSTALL MEDIAN PAVERS 6435 SF

PVG. STA 21+94.00
CONST. 10' CURB INLET
T.C. 522.81
F.L. 518.81

PVG. STA 23+14.00
CONST. 10' CURB INLET
T.C. 524.55
F.L. 520.55

INSTALL 790 LF 5' SIDEWALK

PVG. STA 24+64.00
CONST. 10' CURB INLET
T.C. 526.89
F.L. 522.89

PVG. STA 27+24.31
CONST. 10' CURB INLET
T.C. 527.68
F.L. 523.68

27+39.83 CR LT
TC 527.60
TP 527.10

ADJUST EXIST WATER VALVES TO PROPOSED GRADE
EX FIRE HYDRANT TO BE RELOCATED

27+97.35
TP 526.52

SAWCUT 20 LF± CONC. PVMT

SEE INTERSECTION GRADING PLAN INSET THIS SHEET

27+90.39 QUAIL RUN RD
0+00.00 HAYS RD.

19+27.51 QUAIL RUN RD.
0+00.00 MEMORIAL DR.

SAWCUT 430 LF CONC. PVMT ALONG EXISTING JOINT
REMOVE 1675 SY CONC. PVMT
CONST. LONGITUDINAL BUTT JOINT (130')

19+70.00 CR
TC 521.15

20+70.00 PC
TC 522.40

21+19.75 PRC
TC 522.75

20+90.62 END CURB
TC 522.69
TP 522.19

21+69.50 PT
TC 523.09

TP 523.35

INSTALL 340 SY ASPHALT PVMT

22+78.78 END CURB
TC 524.49
TP 523.99

24+53.00 BEGIN CURB
TC 527.22
TP 526.72

26+25.00 END CURB
TC 528.63
TP 528.13

INSTALL 215 SY ASPHALT PVMT OR REINFORCED CONCRETE PAVEMENT

27+39.83
TP 527.57

NOTE:
THE CONTRACTOR SHALL CONTACT NTMWD ENGINEERING AT (972) 442-5405 AT LEAST 48 HOURS PRIOR TO PERFORMING WORK IN THE VICINITY OF THE NTMWD FACILITIES

2" H.M.A.C. (TYPE D) SURFACE COURSE
4" HMAC TYPE B
6" FLEXIBLE BASE COARSE COMPACTED PER TXDOT METHOD TEX-113-E

ASPHALT PVMT

4" DOUBLE PLAIN WHITE NON-REFLECTIVE ROUND CERAMIC BUTTONS (TYP)
4"x4" DOUBLE CLEAR ACRYLIC REFLECTIVE BUTTONS (TYP)

8"
2.5' 2.5' 2.5' 2.5'

BUTTON TURN BAY LINE MARKING DETAIL
N.T.S

2-3/8" PAVING STONE
FINISHED GRADE TO MATCH TOP OF CURB
1/2" EXPANSION JOINT BETWEEN CONC. ONLY
1/8" typ
6"
9 3/8"
SAND FILLED JOINTS: MECHANICALLY VIBRATED UNTIL LEVEL
1" SAND BEDDING COURSE
MINIMUM 6" 3000 psi (5.5 SACK MIN) REINFORCED CONC. SUBGRADE W/ #3 BARS 24" O.C.

MEDIAN PAVING STONE DETAIL
N.T.S.

0+62.05 CR LT
TC 527.92

0+62.15
TP 527.82

0+44.92 PC
TP 527.09

27+39.83 CR LT
TC 527.60
TP 527.10

PVG. STA 27+24.31
CONST. 10' CURB INLET
T.C. 527.68
F.L. 523.68

27+97.35
TP 526.52

QUAIL RUN ROAD

HAYS RD.

INTERSECTION GRADING PLAN
SCALE:1"=20'

PROFILE GRADE LINE
42.5'
10.5' 25' B-B 7'
1.0' 1.0'
** 8" - 3600 psi REINF. CONC. PVMT. #3 BARS 24" O.C.B.W.
1/4"/FT
1/4" / FT
2'
5'
SAWCUT
10'
CENTERLINE QUAIL RUN RD.
LEFT TURN LANE

SIDEWALK (TYP)
4" - 3000psi REINF. CONC. PVMT. #3 BARS 24" O.C.B.W.
MIN 5.5 SACK/CY MIX

6"-7 1/2% LIME STABILIZED SUBGRADE OR AS REQUIRED TO REDUCE P.I. TO LESS THAN 15. MIN. 95% STANDARD DENSITY

25' PVMT.
N.T.S.

**6.5 SACK IF MACHINE PLACED
7.0 SACK IF HAND POUR

PROPOSED TC LT

EDGE OF EXIST PVMT

NATURAL GROUND @ R.O.W. LT.

PROP CURB LT

EX. 20" WL

EX 30" FORCE MAIN

EX 30" WL NTMWD

170' VC
K=62.5
e=0.44'

19+67.85 TIE TO EX PVMT LT
TC 520.77

22+15.00 PVILT
TC 523.00
(NO VC)

24+80.00 PVC LT
TC 527.14

25+65.00 PVILT
TC 528.03
(528.47)

HI 26+08.83
TC 528.15

26+50.00 PVT LT
TC 528.05

27+39.83 CR LT
TC 527.60
TP 527.10

27+97.35
TP 526.52

28+24.49
15.0' LT
TP 526.5

28+24.49
5.0' RT
TP 526.1

EX S=0.95%
S=0.90%
S=1.56%
S=-0.50%
S=-1.00%
EX=-2.0%+/-

TC=521.06
TC=521.96
TC=522.86
TC=524.33
TC=525.89
TC=527.43
TC=528.14
TC=527.80

530
525
520
515

19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

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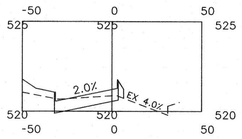
PHASE VIII
ROCKWALL, TEXAS

QUAIL RUN ROAD

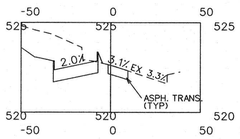
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	8 OF 32

quail



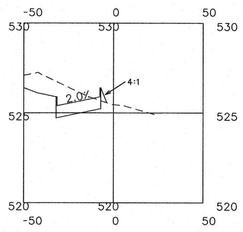
20+00

quail



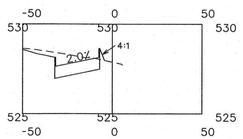
22+00

quail



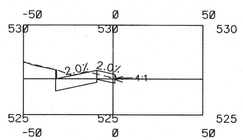
24+00

quail



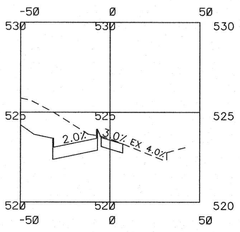
26+00

quail



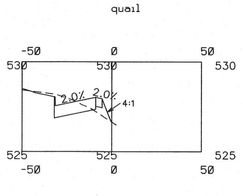
27+50

quail



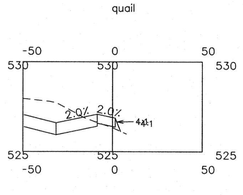
22+50

quail



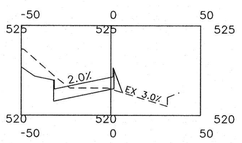
26+50

quail



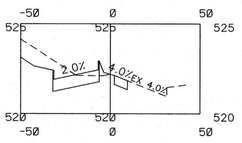
27+90

quail



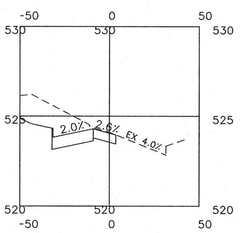
21+00

quail



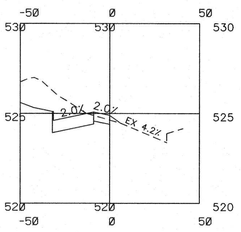
21+50

quail



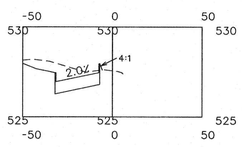
23+00

quail



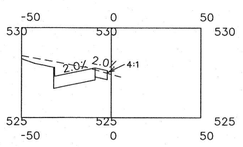
23+50

quail



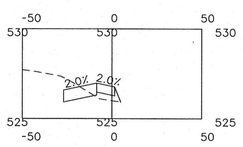
25+00

quail



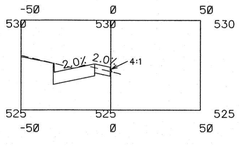
27+00

quail



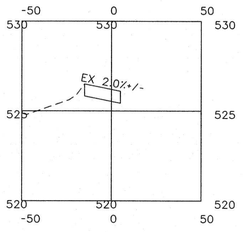
28+00

quail



27+40

quail



28+25

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REGISTERED PROFESSIONAL ENGINEER
9.17.18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

QUAIL RUN ROAD
CROSS SECTIONS

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	9 OF 32

SCALE: 1" = 40'

QUAIL RUN RD.

0+62.05 CR LT
TC 527.92

PVG. STA 0+80.04
CONST. 15' CURB INLET
T.C. 528.19
F.L. 524.19

INSTALL 1142 LF
5' SIDEWALK

EXIST. 30" NTMWD WL

WARP 5' SIDEWALK
AROUND VAULT

5'X40' SIDEWALK
EASEMENT

EXIST. NTMWD VAULT
EX RIM 546.60

12+00.00 MATCH LINE

27+90.39 QUAIL RUN RD
0+00.00 HAYS RD.

HAYS ROAD

CENTERLINE N00° 28'42"W

ADJUST EX. WATER
VALVE COVERS

EX TP 526.4

0+62.15
TP 527.82

0+44.92 PC
TP 527.09

0+32.00
TP 526.52

EXIST. ASPH. PVMT
TO BE REMOVED

EXIST. 20" WL

FUTURE ROW

FUTURE BACK OF CURB

NOTE:
HAYS ROAD CENTERLINE BEARING N00° 28'42"W TO MEET
MINIMUM DISTANCE FROM NTMWD 30" WATER LINE
TO PROPOSED PAVEMENT.

NTMWD 20' ESMT
FUTURE 60' ROW
FUTURE 41' B-B'
9.5' TO 12.3'
9.5' TO 6.7'
20.5'
4.0'
3' SHOULDER
6" CROWN
SAWED JOINT
@ CENTER
8" - 3600 psi REINF.
CONC. PVMT. #3 BARS
24" O.C.B.W.
PGL LT
1/4"/FT
2.5%
4:1 MAX
9.5'
2.0'
5' SIDEWALK
(TYP)
SAWED
JOINT
INSTALL
KEYWAY
VARIES
1.0'
VARIES
MIN 9' TO PIPE
10" - 3600 psi REINF.
CONC. PVMT. #3 BARS
24" O.C.B.W.
6"-7 1/2% LIME STABILIZED SUBGRADE
OR AS REQUIRED TO REDUCE P.I. TO
LESS THAN 15. MIN. 95% STANDARD DENSITY
SIDEWALK (TYP)
4" - 3000psi REINF.
CONC. PVMT. #3 BARS
24" O.C.B.W.
MIN 5.5 SACK/CY MIX

TYPICAL PAVEMENT SECTION
N.T.S.
*MIN. 6 1/2 SACK/CY MIX IF HAND PLACED
MIN. 6 SACK/CY FOR MACHINE PLACED

NOTE:
EXISTING ASPHALT ROAD TO BE REMOVE
TO STA. 15+81

NOTE:

THE CONTRACTOR SHALL CONTACT NTMWD ENGINEERING AT
(972) 442-5405 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY
WORK IN THE VICINITY OF THE NTMWD FACILITIES.

LOCATION MAP

PROPOSED TC LT

0+32.08 PILT
TC 527.30

0+62.05 CR LT
TC 527.92

S=1.50%

2+00.00 PVI LT
TC 529.99
(NO VC)

PGL LT TC

S=2.10%

NATURAL GROUND
@ R.O.W. LT.

EX 30" WATER LINE NTMWD

EXISTING 20" WATER LINE

7+00.00 PVI LT
TC 540.49
(NO V.C.)

S=2.45%

NATURAL GROUND
@ CENTERLINE

8+50.00 PVC LT
TC 544.16

350' VC
A=3.30
K=106.1
e=1.78

10+25.00 PVI
TC 546.67
(546.45)

HI 10+81.44
TC 546.75

12+00.00 PVT
TC 545.64

S=-1.61%

12+00.00 MATCH LINE

TC-528.49
TC-529.99
TC-532.09
TC-534.19
TC-536.29
TC-538.39
TC-540.49
TC-542.59
TC-544.58
TC-545.76
TC-546.03
TC-545.39

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HAYS ROAD

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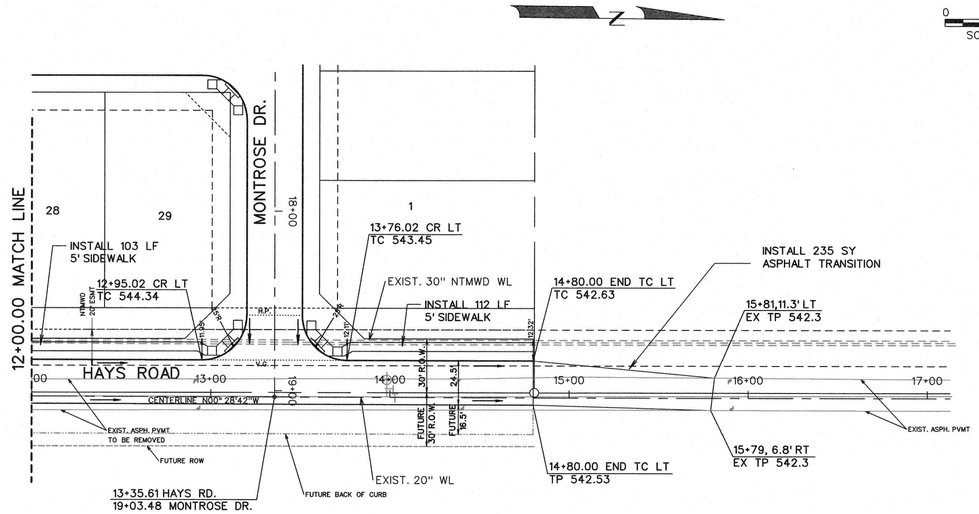


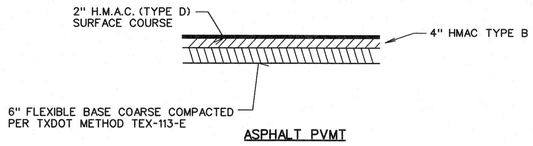
NOTE:
EXISTING ASPHALT ROAD TO BE REMOVED
TO STA. 15+81

NOTE:

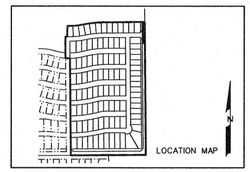
THE CONTRACTOR SHALL CONTACT NTMWD ENGINEERING AT
(972) 442-5405 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY
WORK IN THE VICINITY OF THE NTMWD FACILITIES.

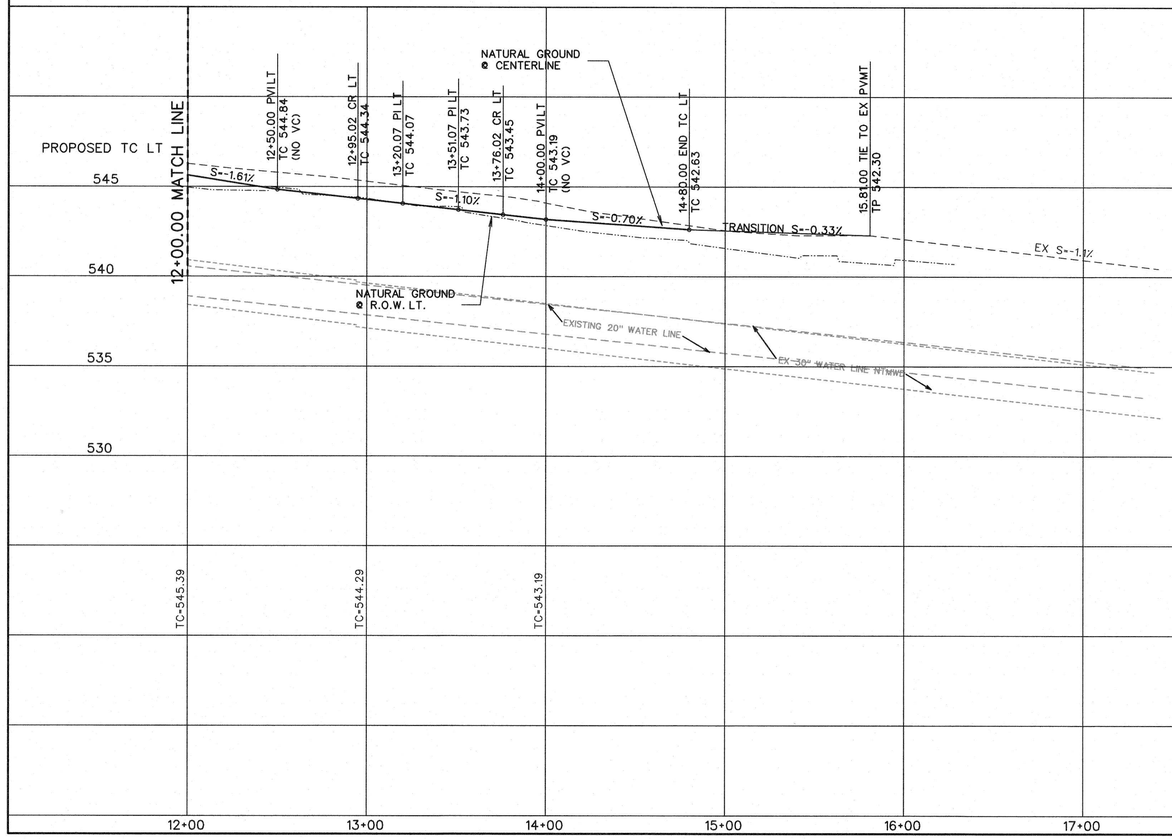
NOTE:
HAYS ROAD CENTERLINE BEARING N00° 28'42"W TO MEET
MINIMUM DISTANCE FROM NTMWD 30" WATER LINE
TO PROPOSED PAVEMENT.

SCALE: 1" = 40'



ASPHALT PVMT





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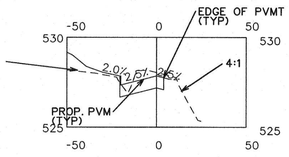
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

HAYS ROAD

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	11 OF 32

hays



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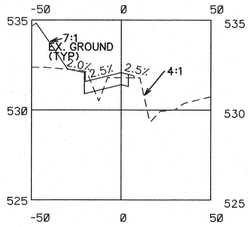

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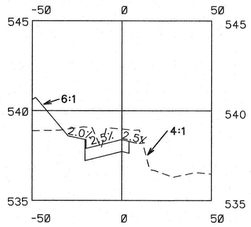

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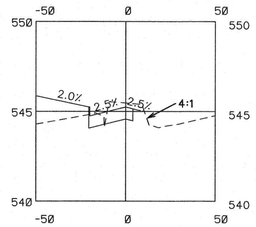

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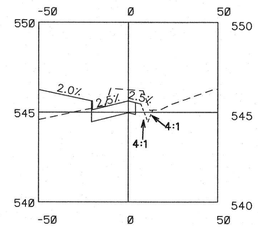

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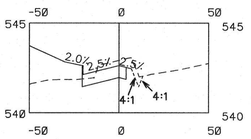

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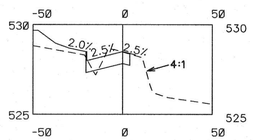

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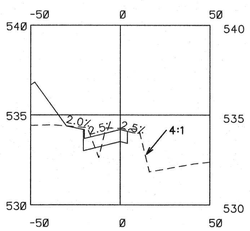

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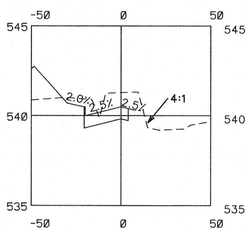

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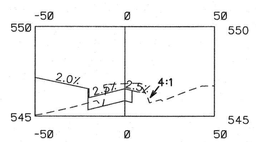
hays



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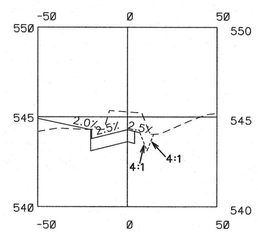
hays



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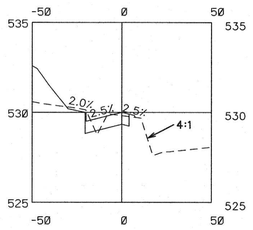
hays



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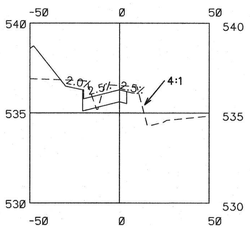
hays



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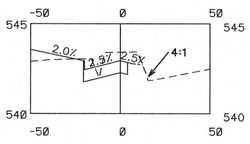
hays



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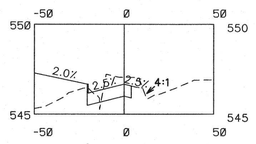
hays



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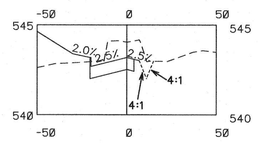
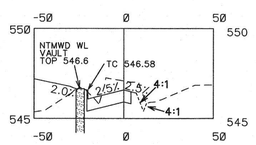
hays



14+00

hays



11+16 WATER VAULT

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

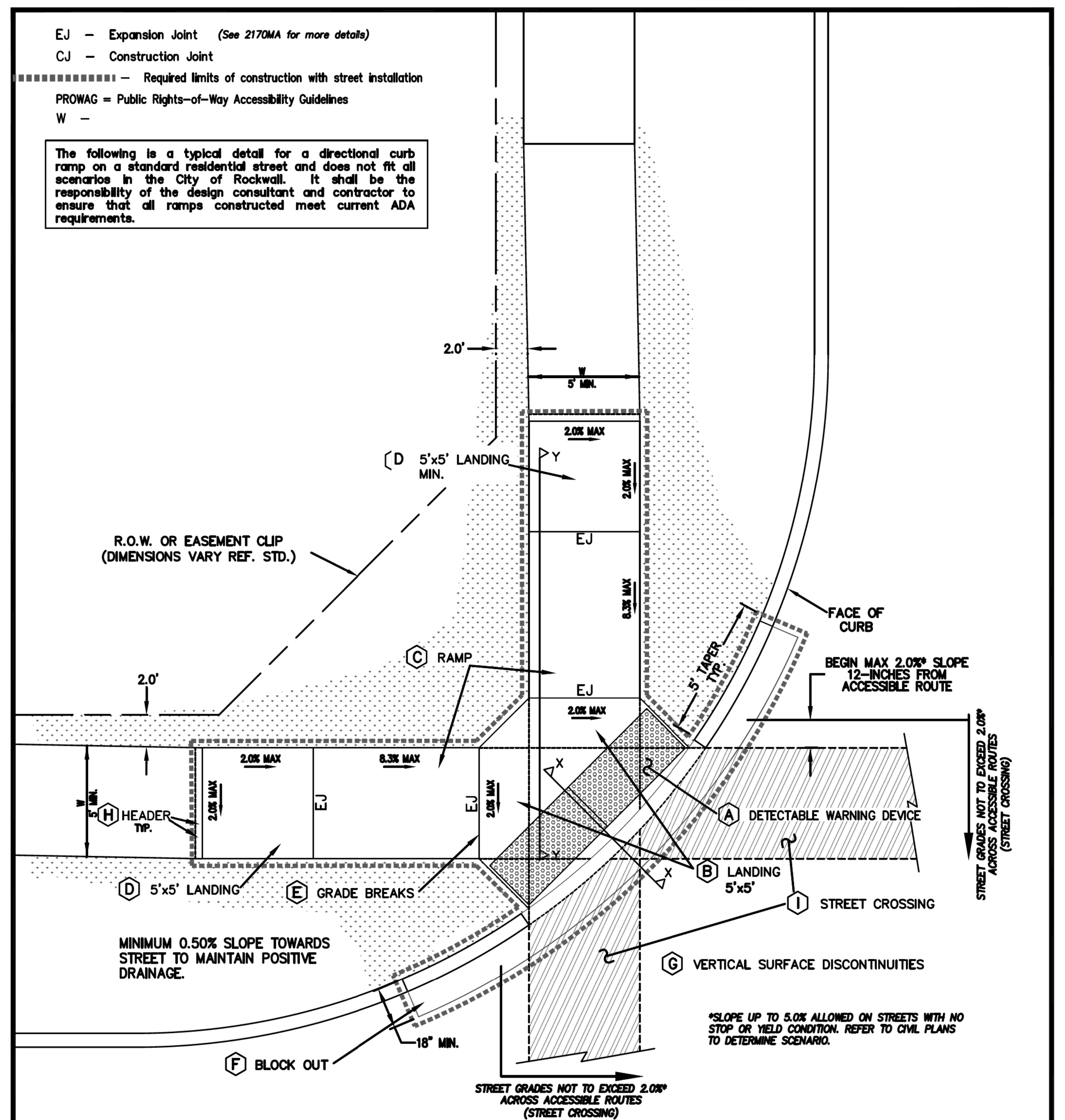
9.7.18
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

HAYS ROAD
CROSS SECTIONS

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	12 OF 32



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

(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%).

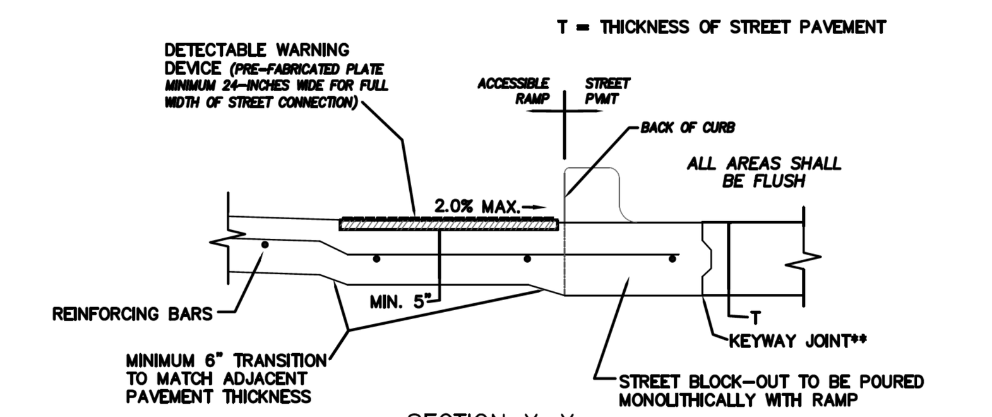
(H) A sidewalk header shall be constructed at ends of all work performed.

(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.

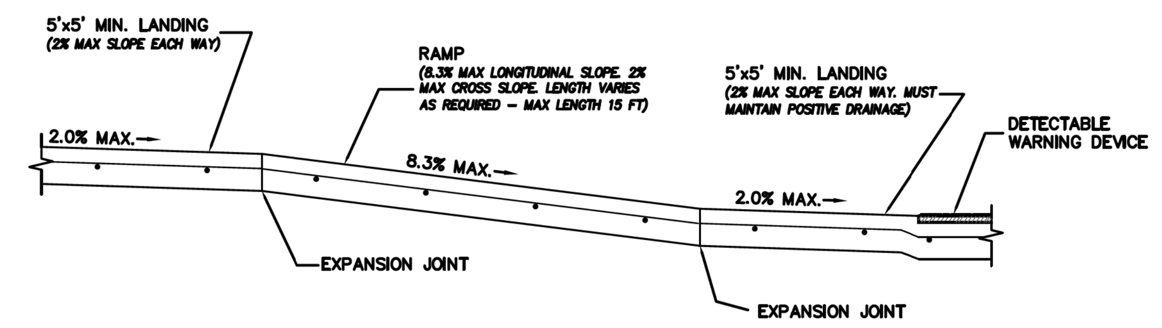
** See PROWAG special design considerations when street crossing has no stop or yield condition.*

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



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

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

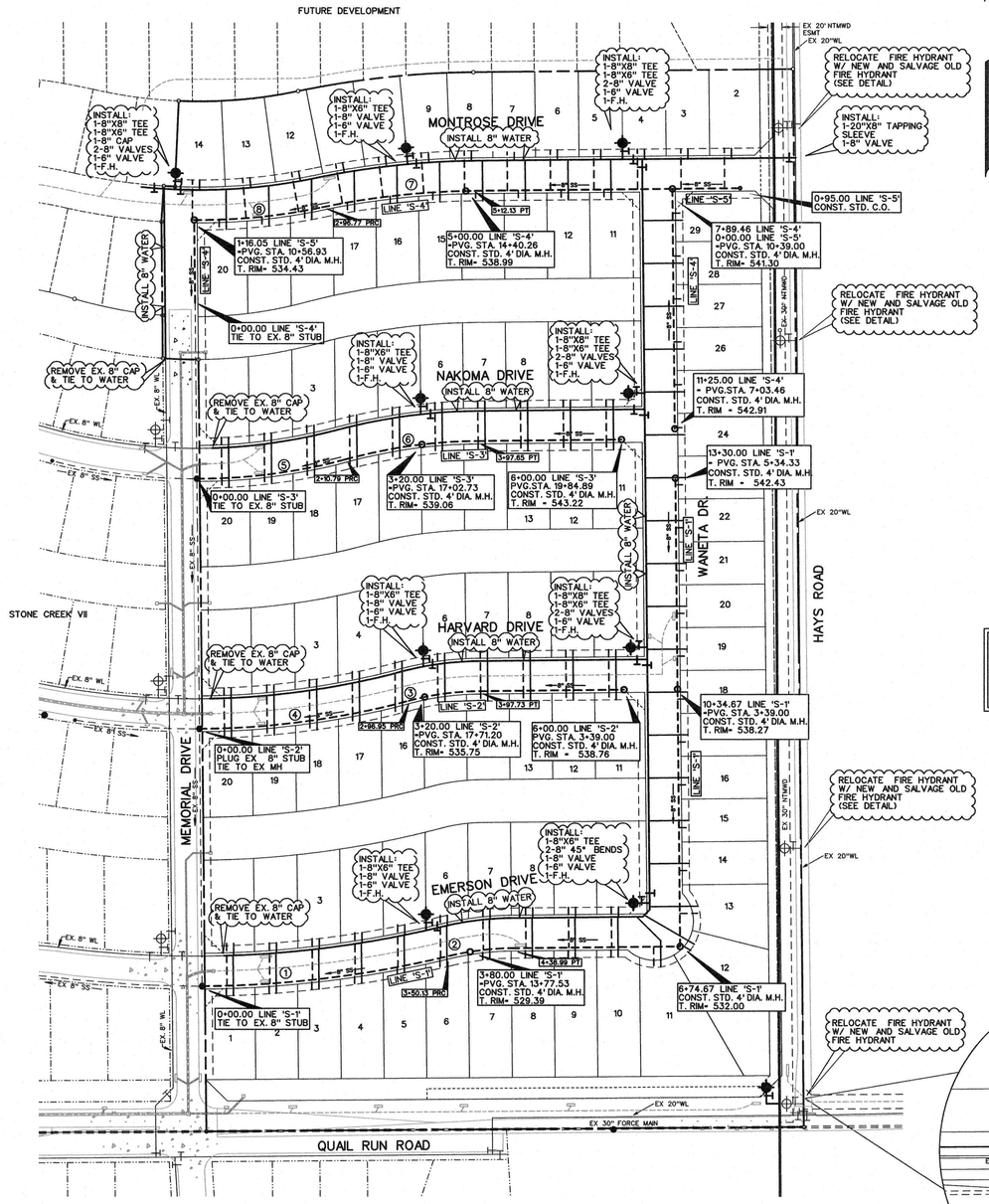
AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

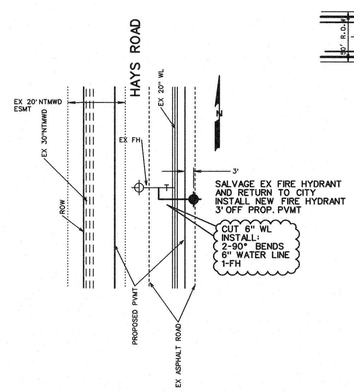
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

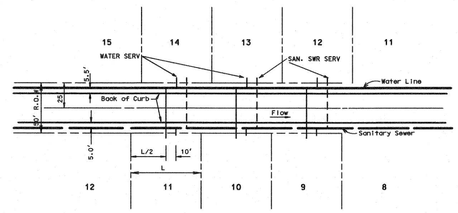
SIDEWALK RAMP DETAILS

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	12A OF 32





FIRE HYDRANT RELOCATION
N.T.S.



TYPICAL WATER & SEWER SERVICE LAYOUT
N.T.S.

CURVE TABLE

CURVE NO.	DELTA	RADIUS	LENGTH	TANGENT
1.	13°06'12"	1531.00'	350.13'	175.83'
2.	12°55'19"	394.00'	88.86'	44.62'
3.	14°17'33"	404.00'	100.78'	50.65'
4.	14°31'46"	1171.00'	296.95'	149.28'
5.	14°42'39"	821.00'	210.79'	105.98'
6.	14°11'56"	754.00'	186.86'	93.91'
7.	11°10'37"	1104.00'	215.36'	108.02'
8.	12°14'21"	846.00'	180.72'	90.70'

NOTE:

THE CONTRACTOR SHALL CONTACT NTMWD ENGINEERING AT (972) 442-5405 AT LEAST 48 HOURS PRIOR TO PERFORMING WORK IN THE VICINITY OF THE NTMWD FACILITIES

NOTE:

ALL WATER LINES TO BE CLASS 200 PIPE DR-14 C-900.

ALL SANITARY SEWER PIPE TO BE SDR 35 FOR 5-10' DEEP AND SDR 26 FOR 10' AND GREATER.

INSTALL BLUE "EMS" DISK ON WATER LINE AT EVERY 250' AND CHANGE IN DIRECTION, VALVE, AND SERVICE.

INSTALL GREEN "EMS" DISK ON SANITARY SEWER LINE EVERY 250' AND AT EVERY CHANGE IN DIRECTION, MANHOLE, CLEANOUT, AND SERVICE.

ALL MANHOLES TO BE RAVEN EPOXY LINED AND SEALED OR APPROVED EQUAL. TO BE SPARK AND PRESSURE TESTED.

SERVICE SCHEDULE			
	TYPE	SIZE	NO.
	SANITARY	4"	102
	WATER	1"	102
	IRRIGATION	1½"	xx

LEGEND

- PROP. WATER LINE
- PROP. FIRE HYDRANT AND VALVE
- PROP. GATE VALVE
- PROP. FLUSH VALVE
- EXIST. WATER LINE
- EXIST. FIRE HYDRANT AND VALVE
- PROP. SANITARY SEWER
- PROP. MANHOLE
- PROP. CLEANOUT
- EXIST. SANITARY SEWER
- EXIST. MANHOLE
- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.
ELEV.= 525.31

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

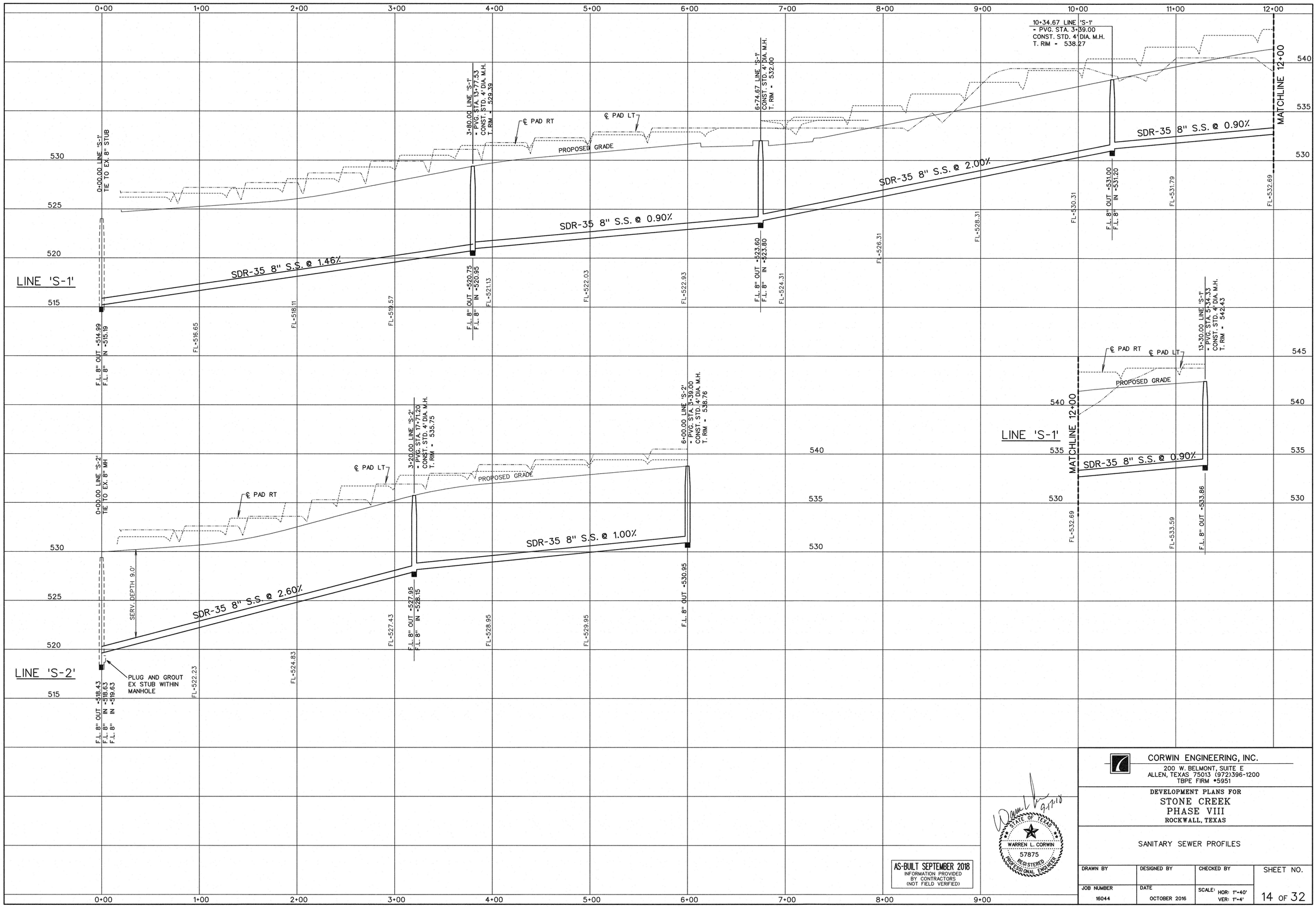
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER
9/21/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

WATER AND SANITARY SEWER PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	13 OF 32



AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

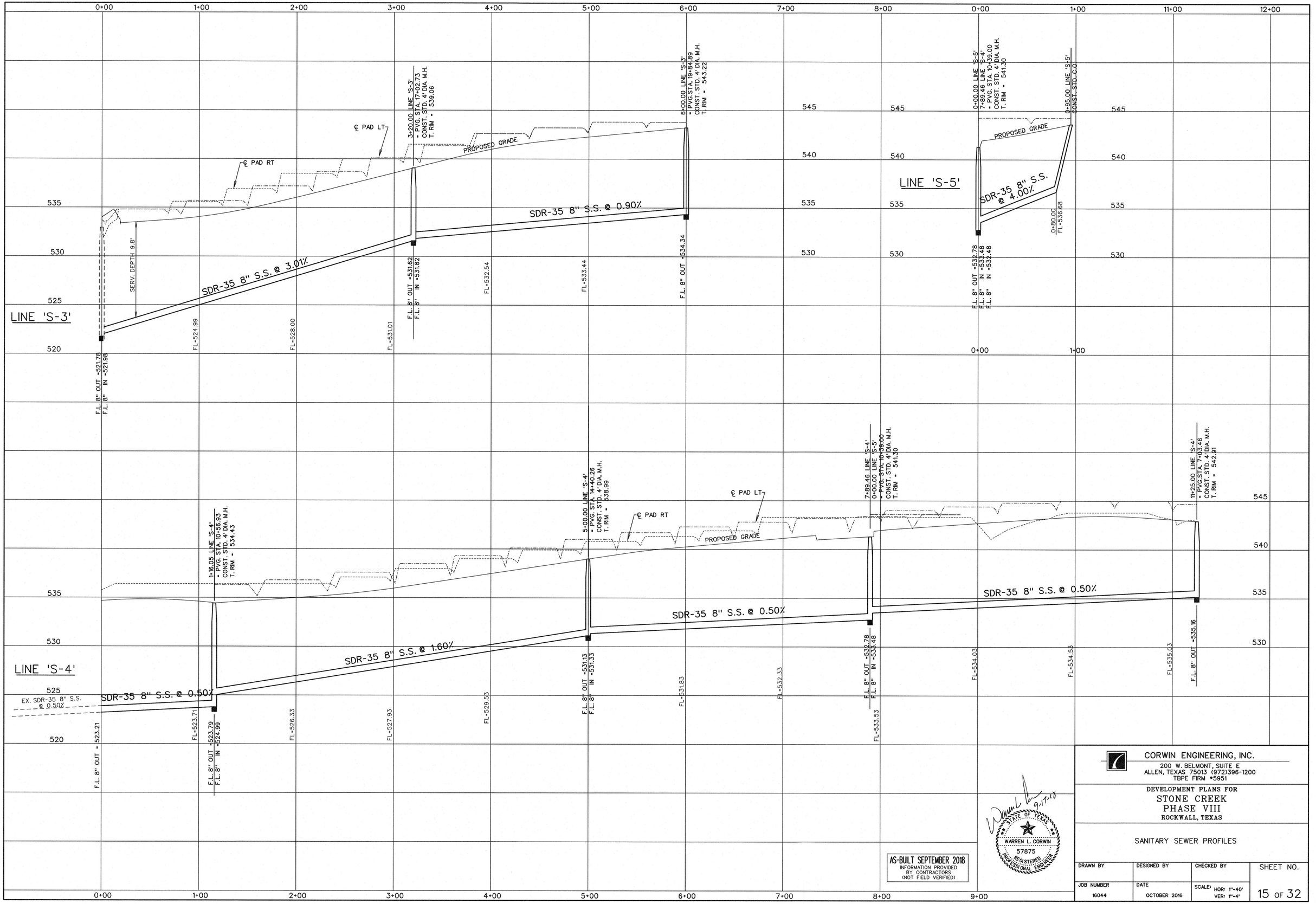
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED
PROFESSIONAL ENGINEER
9/21/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

SANITARY SEWER PROFILES

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	14 OF 32



AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER
9.17.18

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

DEVELOPMENT PLANS FOR
STONE CREEK PHASE VIII
ROCKWALL, TEXAS

SANITARY SEWER PROFILES

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	15 OF 32

N

0 50 100 200
SCALE: 1" = 100'

EXISTING CONDITIONS RUNOFF COMPUTATIONS

Area	Area	Area	Runoff		Tc	I(100)	Q(100)	
#	(sf)	(acres)	Coefficient	CA	(min)	(in/hr)	(cfs)	Drains To:
EX1	217491	4.99	0.35	1.75	20	8.30	14.5	North
EX2	305933	7.02	0.35	2.46	20	8.30	20.4	Harvard Drive
EX3	360930	8.29	0.35	2.90	20	8.30	24.1	Memorial Drive
EX4	246648	5.66	0.35	1.98	20	8.30	16.4	Memorial Drive
EX5	140357	3.22	0.35	1.13	20	8.30	9.4	Hays Road

LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- AC. / Q — DRAINAGE AREA NO.

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

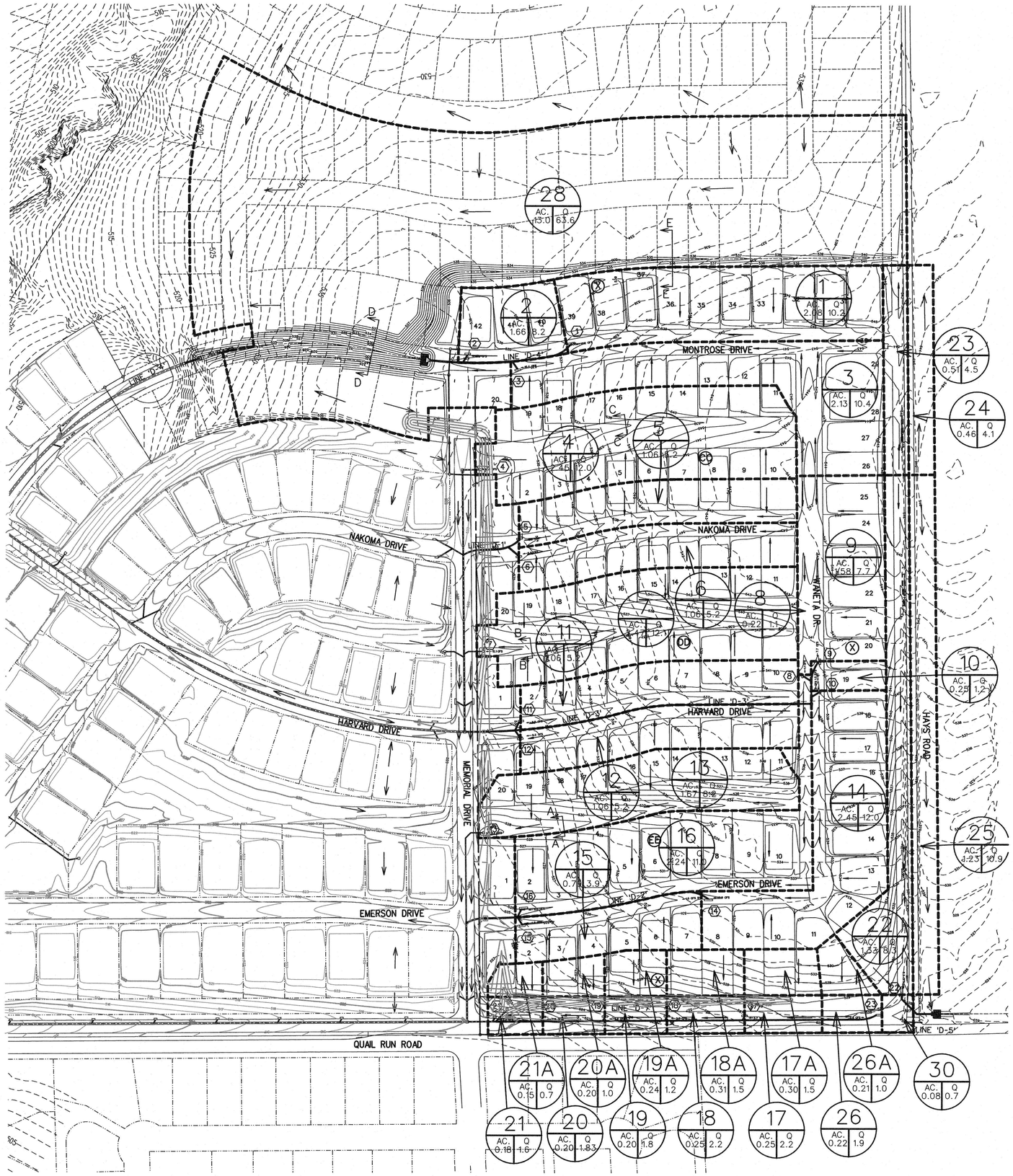
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/14/18

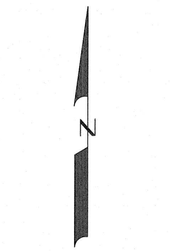
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

EXISTING CONDITIONS DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	16 OF 32



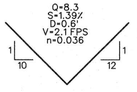


0 50 100 200

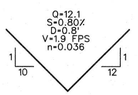
SCALE: 1" = 100'

RUNOFF COMPUTATIONS

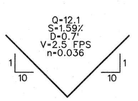
Area #	Area (sf)	Area (acres)	Runoff Coefficient	CA	Tc (min)	I(100) (in/hr)	Q(100) (cfs)	Drains To:
1	90489	2.08	0.50	1.04	10	9.80	10.2	Inlet 1
2	28609	0.66	0.50	0.33	10	9.80	3.2	Inlet 2
3	92832	2.13	0.50	1.07	10	9.80	10.4	Inlet 3
4	106640	2.45	0.50	1.22	10	9.80	12.0	Inlet 4
5	46032	1.06	0.50	0.53	10	9.80	5.2	Inlet 5
6	46098	1.06	0.50	0.53	10	9.80	5.2	Inlet 6
7	107750	2.47	0.50	1.24	10	9.80	12.1	Inlet 7
8	9600	0.22	0.50	0.11	10	9.80	1.1	Inlet 8
9	68736	1.58	0.50	0.79	10	9.80	7.7	Inlet 9
10	10944	0.25	0.50	0.13	10	9.80	1.2	Inlet 10
11	46114	1.06	0.50	0.53	10	9.80	5.2	Inlet 11
12	45960	1.06	0.50	0.53	10	9.80	5.2	Inlet 12
13	72824	1.67	0.50	0.84	10	9.80	8.2	Inlet 13
14	106947	2.45	0.50	1.23	10	9.80	12.0	Inlet 14
15	34510	0.79	0.50	0.40	10	9.80	3.9	Inlet 15
16	97714	2.24	0.50	1.12	10	9.80	11.0	Inlet 16
17	10875	0.25	0.90	0.22	10	9.80	2.2	Inlet 17
17A	13005	0.30	0.50	0.15	10	9.80	1.5	Inlet 17
18	10875	0.25	0.90	0.22	10	9.80	2.2	Inlet 18
18A	13350	0.31	0.50	0.15	10	9.80	1.5	Inlet 18
19	8700	0.20	0.90	0.18	10	9.80	1.8	Inlet 19
19A	10488	0.24	0.50	0.12	10	9.80	1.2	Inlet 19
20	8700	0.20	0.90	0.18	10	9.80	1.8	Inlet 20
20A	8858	0.20	0.50	0.10	10	9.80	1.0	Inlet 20
21	7691	0.18	0.90	0.16	10	9.80	1.6	Inlet 21
21A	6449	0.15	0.50	0.07	10	9.80	0.7	Inlet 21
22	57721	1.33	0.64	0.84	10	9.80	8.3	Inlet 22
23	22285	0.51	0.90	0.46	10	9.80	4.5	Hays Road
24	20250	0.46	0.90	0.42	10	9.80	4.1	Hays Road
25	53781	1.23	0.90	1.11	10	9.80	10.9	Inlet 22
26	9378	0.22	0.90	0.19	10	9.80	1.9	Inlet 23
26A	9267	0.21	0.50	0.11	10	9.80	1.0	Inlet 23
28	565263	13.0	0.50	6.49	10	9.80	63.6	Ultimate to Line D4
30	3418	0.08	0.90	0.07	10	9.80	0.7	Hays Road



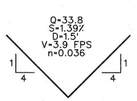
SECTON A-A



SECTON B-B



SECTON C-C



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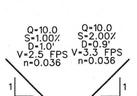


SECTON E-E

TYPICAL GRADE TO DRAIN SECTIONS

N.T.S.

LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO. (AC. / Q)

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

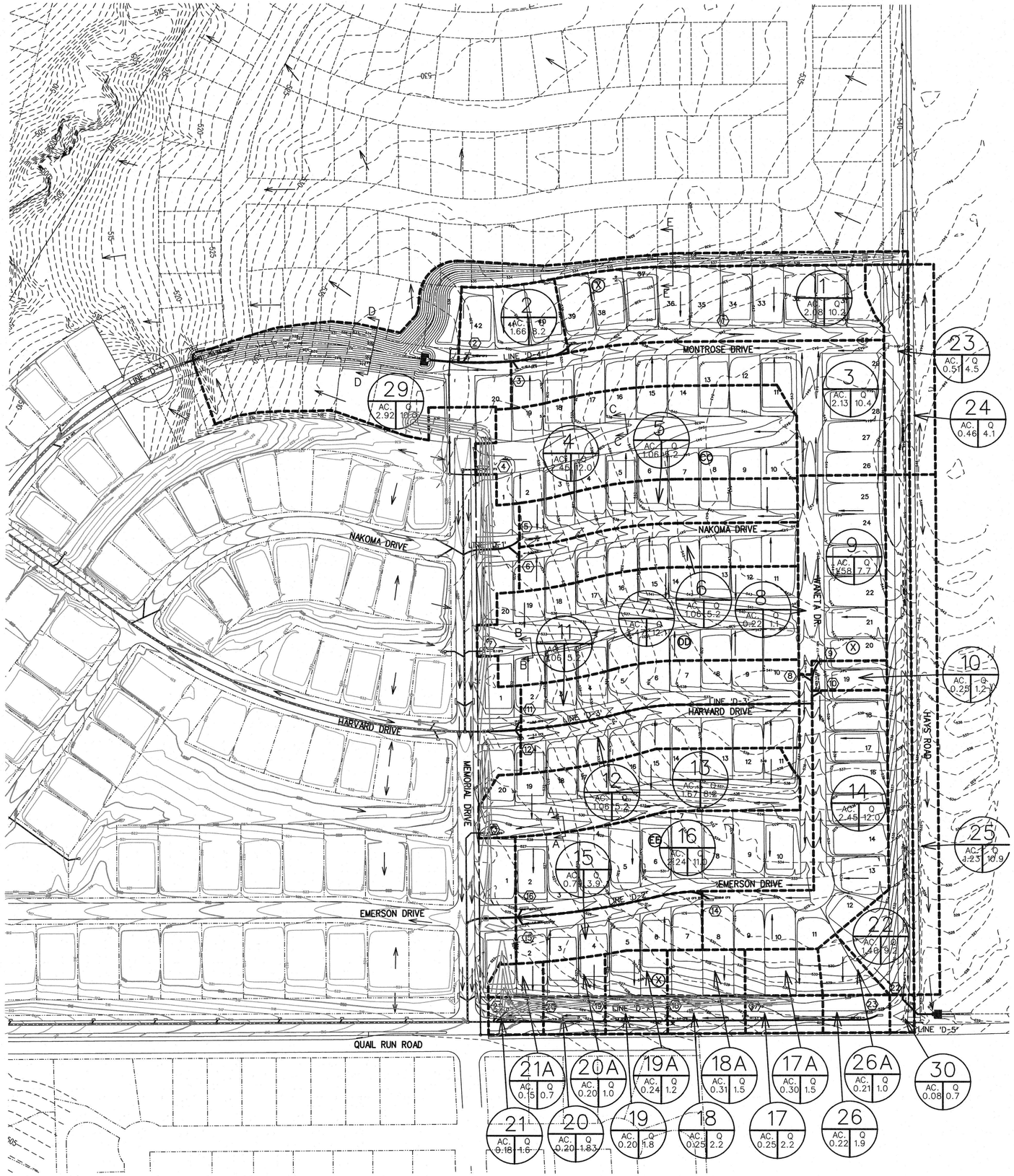
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
11/11/18

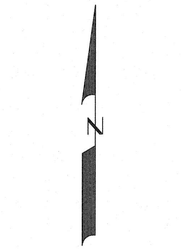
CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E
ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

DRAINAGE AREA MAP

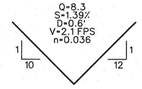
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	17 OF 32



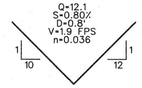


RUNOFF COMPUTATIONS

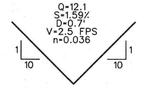
Area #	Area (sf)	Area (acres)	Runoff Coefficient	CA	Tc (min)	I(100) (in/hr)	Q(100) (cfs)	Drains To:
1	90489	2.08	0.50	1.04	10	9.80	10.2	Inlet 1
2	28809	0.66	0.50	0.33	10	9.80	3.2	Inlet 2
3	92832	2.13	0.50	1.07	10	9.80	10.4	Inlet 3
4	106640	2.45	0.50	1.22	10	9.80	12.0	Inlet 4
5	46032	1.06	0.50	0.53	10	9.80	5.2	Inlet 5
6	46098	1.06	0.50	0.53	10	9.80	5.2	Inlet 6
7	107750	2.47	0.50	1.24	10	9.80	12.1	Inlet 7
8	9600	0.22	0.50	0.11	10	9.80	1.1	Inlet 8
9	68736	1.58	0.50	0.79	10	9.80	7.7	Inlet 9
10	10944	0.25	0.50	0.13	10	9.80	1.2	Inlet 10
11	46114	1.06	0.50	0.53	10	9.80	5.2	Inlet 11
12	45960	1.06	0.50	0.53	10	9.80	5.2	Inlet 12
13	72824	1.67	0.50	0.84	10	9.80	8.2	Inlet 13
14	106847	2.45	0.50	1.23	10	9.80	12.0	Inlet 14
15	34510	0.79	0.50	0.40	10	9.80	3.9	Inlet 15
16	97714	2.24	0.50	1.12	10	9.80	11.0	Inlet 16
17	10875	0.25	0.90	0.22	10	9.80	2.2	Inlet 17
17A	13005	0.30	0.50	0.15	10	9.80	1.5	Inlet 17
18	10875	0.25	0.90	0.22	10	9.80	2.2	Inlet 18
18A	13350	0.31	0.50	0.15	10	9.80	1.5	Inlet 18
19	8700	0.20	0.90	0.18	10	9.80	1.8	Inlet 19
19A	10488	0.24	0.50	0.12	10	9.80	1.2	Inlet 19
20	8700	0.20	0.90	0.18	10	9.80	1.8	Inlet 20
20A	8858	0.20	0.50	0.10	10	9.80	1.0	Inlet 20
21	7691	0.18	0.90	0.16	10	9.80	1.6	Inlet 21
21A	6449	0.15	0.50	0.07	10	9.80	0.7	Inlet 21
22	57721	1.33	0.64	0.84	10	9.80	8.3	Inlet 22
23	22285	0.51	0.90	0.46	10	9.80	4.5	Hays Road
24	20250	0.46	0.90	0.42	10	9.80	4.1	Hays Road
25	53781	1.23	0.90	1.11	10	9.80	10.9	Inlet 22
26	9378	0.22	0.90	0.19	10	9.80	1.9	Inlet 23
26A	9267	0.21	0.50	0.11	10	9.80	1.0	Inlet 23
29	127324	2.92	0.35	1.02	10	9.80	10.0	Interim to Line D4
30	3418	0.08	0.90	0.07	10	9.80	0.7	Hays Road



SECTON A-A



SECTON B-B



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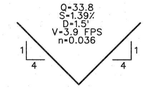
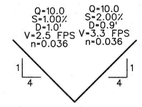


SECTON D-D



SECTON E-E

TYPICAL GRADE TO DRAIN SECTIONS
N.T.S.

LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO. (AC. / Q)

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/1/16

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

INTERIM CONDITIONS DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	17A OF 32

STORM SEWER CALCULATIONS

Upstream	Downstream	Distance	AREA	Total Area	Picked Up			Accumulated	Tc	Design Storm	I	Q	S	Pipe Size	Partial	Velocity	Flow Time	Velocity Head	Junction	K	Time at D/S	Minor Losses	Hydraulic Grade	Hydraulic Grade
Station	Station	(ft)	NO.	(Acres)	(Acres)	C	CA	CA	(Min)	(Years)	(in/hr)	(CFS)	(ft/ft)	(in)	Flow?	(fps)	(Min)	(ft)	Type		(Min)	(ft)	Upstream	Downstream
Line D1																								
1+16.05	0+89.01	27.04	5	1.06	1.06	0.50	0.53	0.53	10.00	100	9.80	5.2	0.0024	18	No	2.9	0.15	0.13	Inlet	1.25	10.15	0.17	532.36	532.19
0+89.01	0+36.65	52.36	D1A	1.06	1.06	0.50	0.53	1.06	10.15	100	9.78	10.3	0.0021	24	No	3.3	0.27	0.17	60° Wye	0.35	10.42	0.12	532.13	532.01
0+36.65	0+00.00	36.65		0.00	0.00	0.50	0.00	1.06	10.42	100	9.74	10.3	0.0006	30	No	2.1	0.29	0.07	60° Wye	0.35	10.71	0.01	531.90	531.89
0+00.00																5.8	0.00	0.52	60° Wye	0.35	0.00	0.46	531.86	531.40
Lat D1A																								
0+26.63	0+00.00	26.63	6	1.06	1.06	0.50	0.53	0.53	10.00	100	9.80	5.2	0.0024	18	No	2.9	0.15	0.13	Inlet	1.25	10.15	0.17	532.36	532.19
0+00.00																3.3	0.00	0.17	60° Wye	0.35	0.00	0.12	532.13	532.01
Line D2																								
4+77.10	1+00.50	376.60	14	2.45	2.24	0.50	1.12	1.12	10.00	100	9.80	11.0	0.0110	18	Yes	8.4	0.75	1.10	Inlet	1.25	10.75	1.37	528.70	527.33
1+00.50	0+36.52	63.98	D2A,D2B	3.04	3.24	0.50	1.62	2.74	10.75	100	9.69	26.6	0.0138	24	No	8.5	0.13	1.11	60° Wye	0.35	10.87	0.73	523.20	522.47
0+36.52	0+00.00	36.52		0.00	0.00	0.50	0.00	2.74	10.87	100	9.67	26.5	0.0042	30	No	5.4	0.11	0.45	60° Wye	0.35	10.99	0.06	521.58	521.52
0+00.00																7.2	0.00	0.80	60° Wye	0.35	0.00	0.65	521.37	520.72
Lat D2A																								
0+17.93	0+00.00	17.93	16	2.24	2.24	0.50	1.12	1.12	10.00	100	9.80	11.0	0.0110	18	No	6.2	0.05	0.60	Inlet	1.25	10.05	0.75	524.32	523.57
0+00.00																8.5	0.00	1.11	60° Wye	0.35	0.00	0.90	523.37	522.47
Lat D2B																								
0+17.87	0+00.00	17.87	15	0.79	1.00	0.50	0.50	0.50	10.00	100	9.80	4.9	0.0022	18	No	2.8	0.11	0.12	Inlet	1.25	10.11	0.15	523.73	523.58
0+00.00																8.5	0.00	1.11	60° Wye	0.35	0.00	1.07	523.54	522.47
Line D3																								
18+48.33	18+08.98	39.35	9	1.58	1.33	0.50	0.66	0.66	10.00	100	9.80	6.5	0.0038	18	Yes	10.5	0.06	1.71	Inlet	1.25	10.06	2.14	534.87	532.73
18+08.98	18+05.98	3.00	PVI	0.00	0.00	0.50	0.00	0.66	10.06	100	9.79	6.5	0.0038	18	Yes	6.3	0.01	0.62	PVI	1.00	10.07	0.00	532.59	532.59
18+05.98	17+75.68	30.30	D3I	0.22	0.22	0.50	0.11	0.77	10.07	100	9.79	7.6	0.0052	18	Yes	6.5	0.08	0.66	60° Wye	0.35	10.15	0.44	532.58	532.14
17+75.68	17+62.63	13.05	D3H	0.25	0.50	0.50	0.25	1.02	10.15	100	9.78	10.0	0.0091	18	Yes	6.8	0.03	0.72	60° Wye	0.35	10.18	0.49	531.98	531.50
17+62.63	14+00.00	362.63	MH	0.00	0.00	0.50	0.00	1.02	10.18	100	9.77	10.0	0.0091	18	Yes	6.8	0.89	0.72	MH	0.55	11.07	0.39	531.38	530.98
14+00.00	11+85.01	214.99	PVI	0.00	0.00	0.50	0.00	1.02	11.07	100	9.64	9.9	0.0088	18	Yes	10.3	0.35	1.65	PVI	1.00	11.42	0.93	529.98	529.05
11+85.01	11+22.57	62.44	D3F,D3G	2.11	2.11	0.50	1.06	2.08	11.42	100	9.59	20.0	0.0078	24	No	6.4	0.16	0.63	60° Wye	0.35	11.58	0.05	527.69	527.64
11+22.57																4.1		0.26		1.00		0.00	527.15	527.15
Lat D3F																								
0+17.94	0+00.00	17.94	11	1.06	1.06	0.50	0.53	0.53	10.00	100	9.80	5.2	0.0024	18		2.9	0.10	0.13	Inlet	1.25	10.10	0.17	528.43	528.26
0+00.00																6.4	0.00	0.63	60° Wye	0.35	0.00	0.58	528.22	527.64
Lat D3G																								
0+17.86	0+00.00	17.86	12	1.06	1.06	0.50	0.53	0.53	10.00	100	9.80	5.2	0.0024	18		2.9	0.10	0.13	Inlet	1.25	10.10	0.17	528.43	528.26
0+00.00																6.4	0.00	0.63	60° Wye	0.35	0.00	0.58	528.22	527.64
Lat D3H																								
0+17.90	0+00.00	17.90	10	0.25	0.50	0.50	0.25	0.25	10.00	100	9.80	2.5	0.0005	18		1.4	0.21	0.03	Inlet	1.25	10.21	0.04	532.25	532.21
0+00.00																6.8	0.00	0.72	60° Wye	0.35	0.00	0.71	532.20	531.50
Lat D3I																								
0+18.61	0+00.00	18.61	8	0.22	0.22	0.50	0.11	0.11	10.00	100	9.80	1.1	0.0001	18		0.6	0.51	0.01	Inlet	1.25	10.51	0.01	532.81	532.80
0+00.00																6.5	0.00	0.66	60° Wye	0.35	0.00	0.65	532.80	532.14
Line D4																								
12+54.72	11+33.74	120.98	1	2.08	2.08	0.50	1.04	1.04	10.00	100	9.80	10.2	0.0094	18	Yes	8.0	0.25	0.99	Inlet	1.25	10.25	1.24	534.38	533.14
11+33.74	10+37.85	95.89	D4F	2.13	2.13	0.50	1.07	2.10	10.25	100	9.76	20.5	0.0044	27	No	5.2	0.31	0.41	60° Wye	0.35	10.56	0.07	532.00	531.93
10+37.85	9+75.00	62.85	D4E	0.66	0.66	0.50	0.33	2.43	10.56	100	9.72	23.6	0.0058	27	Yes	7.4	0.14	0.85	60° Wye	0.35	10.70	0.71	531.51	530.81
9+75.00																							530.44	
5+25.00	4+95.00	30.00	D4.29	7.79	7.79	0.50	3.89	3.89	10.56	100	9.72	37.8	0.0280	24	Yes	12.4	0.04	2.39		1.25	10.60	2.98	517.79	514.81
4+95.00																							513.97	
Lat D4E																								
0+17.96	0+00.00	17.96	2	0.66	0.66	0.50	0.33	0.33	10.00	100	9.80	3.2	0.0009	18		1.8	0.16	0.05	Inlet	1.25	10.16	0.06	531.72	531.66
0+00.00																7.4	0.00	0.85	60° Wye	0.35	0.00	0.83	531.64	530.81
Lat D4F																								
0+17.84	0+00.00	17.84	3	2.13	2.13	0.50	1.07	1.07	10.00	100	9.80	10.4	0.0099	18		5.9	0.05	0.54	Inlet	1.25	10.05	0.68	533.01	532.33
0+00.00																5.2	0.00	0.41	60° Wye	0.35	0.00	0.22	532.16	531.93
Line D7																								
20+19.32	17+59.00	260.32	26.26A	0.43	0.43	0.70	0.30	0.30	10.00	100	9.80	2.9	0.0008	18	Yes	4.7	0.92	0.34	Inlet	1.25	10.92	0.43	523.92	523.49
17+59.02	17+00.00	59.02	D7N	0.55	0.55	0.68	0.37	0.67	10.92	100	9.66	6.5	0.0038	18	Yes	5.7	0.17	0.50	60° Wye	0.35	11.10	0.38	523.29	522.91
17+00.00	16+09.00	91.00	PVI	0.00	0.00	0.50	0.00	0.67	11.10	100	9.64	6.5	0.0038	18	Yes	7.5	0.20	0.87	PVI	1.00	11.30	0.37	522.68	522.31
16+09.00	14+89.00	120.00	D7M	0.56	0.56	0.68	0.38	1.05	11.30	100	9.61	10.1	0.0093	18	No	5.7	0.35	0.51	60° Wye	0.35	11.65	0.00	521.96	521.96
14+89.00	13+69.00	120.00	D7L	0.44	0.44	0.68	0.30	1.35	11.65	100	9.55	12.9	0.0151	18	No	7.3	0.27	0.83	60° Wye	0.35	11.92	0.65	520.85	520.20
13+69.00	12+75.85	93.15	D7K	0.40	0.40	0.70	0.28	1.63	11.92	100	9.51	15.5	0.0047	24	No	4.9	0.31	0.38	60° Wye	0.35	12.24	0.09	518.38	518.30
12+75.85	12+26.48	49.37	D7J	0.32	0.32	0.72	0.23	1.87	12.24	100	9.46	17.7	0.0061	24	No	5.6	0.15	0.49	60° Wye	0.35	12.38	0.36	517.86	517.50
12+26.48	11+05.00	121.48	D9	9.51	9.51	0.50	4.76	6.62	12.38	100	9.44	62.5	0.0057	39	No	7.5	0.27	0.88	MH	1.00	12.65	0.88	517.20	516.31
11+05.00	9+80.00	125.00	D7A	0.37	0.37	0.79	0.29	6.91	12.65	100	9.40	65.0	0.0062	39	No	7.8	0.27	0.95	60° Wye	0.60	12.92	0.42	515.62	515.19
9+80.00	8+60.00	120.00	D7B	0.41	0.37	0.70	0.26	7.17	12.92	100	9.36	67.1	0.0066	39	No	8.1	0.25	1.02	60° Wye	0.60	13.16	0.44	514.42	513.97
8+60.00	7+40.00	120.00	D7C	0.40	0.40	0.70	0.28	7.45	13.16	100	9.33	69.5	0.0071	39	No	8.4	0.24	1.09	60° Wye	0.60	13.40	0.48	513.18	512.70
7+40.00	6+20.00	120.00	D7D	0.40	0.40	0.70	0.28	7.73	13.40	100	9.29	71.8	0.0051	42	No	7.5	0.27	0.86	60° Wye	0.60	13.67	0.10	511.85	511.75
6+20.00	5+00.00	120.00	D7E	0.40	0.40	0.70	0.28	8.01	13.67	100	9.25	74.1	0.0054	42	No	7.7	0.26	0.92	60° Wye	0.60	13.93	0.40	511.14	510.74
5+00.00	3+40.00	160.00	D7F	0.40	0.40	0.70	0.28	8.29	13.93	100	9.21	76.3	0.0058	42	No	7.9	0.34	0.98	60° Wye	0.60	14.27	0.43	510.09	509.66
3+40.00	2+35.00	105.00	D7G	0.53	0.53	0.70	0.37	8.66	14.27	100	9.16	79.3	0.0062	42	No	8.2	0.21	1.06	60° Wye	0.60	14.48	0.47	508.74	508.27
2+35.00	1+43.03	91.97	D7H	0.31	0.31	0.72	0.22	8.88	14.48	100	9.13	81.1	0.0065	42	No	8.4	0.18	1.10	60° Wye	0.60	14.66	0.47	507.62	507.15
1+43.03	0+57.20	85.83	D8	5.45	5.45	0.50	2.72	11.61	14.66	100	9.10	105.6	0.0110	42	No	11.0	0.13	1.87	MH	0.40	14.79	0.75	506.55	505.81
0+57.20	0+00.00	57.20	D7I	0.96	0.96	0.50	0.48	12.09	14.79	100	9.08	109.8	0.0119	42	No	11.4	0.08	2.02	60° Wye	0.60	14.87	0.90	504.86	503.96
0+00.00																							503.28	
Lat D7J																								
0+08.08	0+00.00	8.08	21.21A	0.32	0.32	0.72	0.23	0.23	10.00	100	9.80	2.3	0.0005	18		1.3	0.10	0.03	Inlet	1.25	10.10	0.03	518.02	517.98
0+00.00																5.6	0.00	0.49	60° Wye	0.35	0.00	0.48	517.98	517.50
Lat D7K																								
0+08.08	0+00.00	8.08	20.20A	0.40	0.40	0.70	0.28	0.28	10.00	100	9.80	2.8	0.0007	18		1.6	0.09	0.04	Inlet	1.25	10.09	0.05	518.71	518.67
0+00.00																4.9	0.00	0.38	60° Wye	0.35	0.00	0.37	518.66	518.30
Lat D7L																								
0+08.08	0+00.00	8.08	19.19A	0.44	0.44	0.68	0.30	0.30	10.00	100	9.80	2.9	0.0008	18		1.7	0.08	0.04	Inlet	1.25	10.08	0.05	521.07	521.02
0+00.00																7.3	0.00	0.83	60° Wye	0.35	0.00	0.81	521.01	520.20
Lat D7M																								
0+08.08	0+00.00	8.08	18.18A	0.56	0.56	0.68	0.38	0.38	10.00	100	9.80	3.7	0.0012	18		2.1	0.06	0.07	Inlet	1.25	10.06	0.09	522.54	522.46
0+00.00																5.7	0.00	0.51	60° Wye	0.35	0.00	0.48	522.45	521.96
Lat D7N																								
0+08.08	0+00.00	8.08	17.17A	0.55	0.55	0.72	0.39	0.39	10.00	100	9.80	3.9	0.0013	18		2.2	0.06	0.07	Inlet	1.25	10.06	0.09	523.49	523.40
0+00.00																5.7	0.00	0.50	60° Wye	0.35	0.00	0.48	523.38	522.91
Line D5																								
3+88.20	3+79.98	8.22	22	1.33	1.33	0.64	0.84	0.84	10.00	100	9.80	8.3	0.0027	21	Yes	5.1	0.03	0.40	Inlet	1.25	10.03	0.50	525.74	525.23
3+79.98	3+39.24	40.74	Bend	0.00	0.00	0.50	0.00	0.84	10.03	100	9.80	8.2	0.0027	21	Yes	5.1	0.13	0.40	45° Bend	0.50	10.16	0.20	525.21	525.01
3+39.24	3+00.00	39.24	Bend	0.00	0.00	0.50	0.00	0.84	10.16	100	9.78	8.2	0.0027	21	Yes	5.1	0.13	0.40	45° Bend	0.50	10.29	0.20	524.90	524.70
3+00.00																							524.59	

INLET CALCULATIONS

Inlet					Design Storm	Area Runoff: Q=CIA						Carry-Over from Upstream	Total Gutter Flow	Gutter Capacity	Gutter Slope	Crown	Maximum Allowable Ponding Depth	Actual Ponding Depth	Maximum Allowable Spread	Actual Spread	Selected Inlet			Inlet Capacity	Carry-Over to Downstream	Carry-Over to Downstream
						Tc	Intensity "I"	Runoff Coeff. "C"		Area "A"	Q										Length				
Inlet No.	Station	Offset		Street	Freq. (years)	(min)	(in/hr)		DA #	(acres)	(cfs)	(cfs)	(cfs)	(cfs)	(ft/100 ft)	Type	(ft)	(ft)	(ft)	(ft)	LI (ft)	Type	(cfs)	Inlet (cfs)	Inlet No.
1	12+51.00	0+15.50	LT	Montrose	100	10	9.8	0.50	1	2.08	10.2	0.0	10.2	16.8	1.48%	6" pbl	0.5	0.30	15	9.1	15	STD.	11.5	0.0	
2	10+47.00	0+15.50	LT	Montrose	100	10	9.8	0.50	2	0.66	3.2	0.0	3.2	11.6	0.70%	6" pbl	0.5	0.14	15	4.2	10	STD.	12.5	0.0	
3	11+42.50	0+15.50	RT	Montrose	100	10	9.8	0.50	3	2.13	10.4	0.0	10.4	11.6	0.70%	6" pbl	0.5	0.45	15	13.5	10	STD.	12.5	0.0	
4	10+89.97	0+33.00	RT	Memorial	100	10	9.8	0.50	4	2.45	12.0	0.0	12.0	N/A	N/A	N/A	1	0.60	N/A	N/A	4'X4'	WYE	29.0	0.0	
5	14+75.00	0+15.50	LT	Nakoma	100	10	9.8	0.50	5	1.06	5.2	0.0	5.2	12.4	0.80%	6" pbl	0.5	0.21	15	6.3	10	STD.	7.2	0.0	
6	14+70.00	0+15.50	RT	Nakoma	100	10	9.8	0.50	6	1.06	5.2	0.0	5.2	12.4	0.80%	6" pbl	0.5	0.21	15	6.3	10	STD.	7.2	0.0	
7	7+39.35	0+35.00	RT	Memorial	100	10	9.8	0.50	7	2.47	12.1	0.0	12.1	N/A	N/A	N/A	1	0.60	N/A	N/A	4'X4'	WYE	29.0	0.0	
8	4+13.50	0+15.50	LT	Street E	100	10	9.8	0.50	8	0.22	1.1	0.0	1.1	19.5	2.00%	6" pbl	0.5	0.03	15	0.8	5	STD.	2.7	0.0	
9	4+41.00	0+15.50	RT	Street E	100	10	9.8	0.50	9	1.58	7.7	0.0	7.7	19.5	2.00%	6" pbl	0.5	0.20	15	5.9	10	STD.	6.5	1.2	10
10	3+82.00	0+15.50	RT	Street E	100	10	9.8	0.50	10	0.25	1.2	1.2	2.5	19.5	2.00%	6" pbl	0.5	0.06	15	1.9	5	STD.	2.7	0.0	
11	15+50.00	0+15.50	LT	Harvard	100	10	9.8	0.50	11	1.06	5.2	0.0	5.2	11.6	0.70%	6" pbl	0.5	0.22	15	6.7	10	STD.	7.3	0.0	
12	15+46.00	0+15.50	RT	Harvard	100	10	9.8	0.50	12	1.06	5.2	0.0	5.2	11.6	0.70%	6" pbl	0.5	0.22	15	6.7	10	STD.	7.3	0.0	
13	3+89.34	0+33.00	RT	Memorial	100	10	9.8	0.50	13	1.67	8.2	0.0	8.2	N/A	N/A	N/A	1	0.55	N/A	N/A	4'X4'	WYE	29.0	0.0	
14	14+52.00	0+15.50	RT	Emerson	100	10	9.8	0.50	14	2.45	12.0	0.0	12.0	13.1	0.90%	6" pbl	0.5	0.46	15	13.7	15	STD.	11.0	1.0	15
15	10+87.50	0+15.50	RT	Emerson	100	10	9.8	0.50	15	0.79	3.9	1.0	4.9	13.6	0.97%	6" pbl	0.5	0.18	15	5.4	10	STD.	7.0	0.0	
16	10+91.80	0+15.50	LT	Emerson	100	10	9.8	0.50	16	2.24	11.0	0.0	11.0	11.6	0.70%	6" pbl	0.5	0.48	15	14.3	15	STD.	12.5	0.0	
17	24+64.00	0+32.00	LT	Quail Run	100	10	9.8	0.68	17,17A	0.55	3.7	0.0	3.7	3.8	1.56%	1/4"/ft	0.24	0.23	12	11.2	10	STD.	5.5	0.0	
18	23+14.00	0+32.00	LT	Quail Run	100	10	9.8	0.68	18,18A	0.56	3.7	0.0	3.7	3.8	1.56%	1/4"/ft	0.24	0.24	12	11.3	10	STD.	5.5	0.0	
19	21+94.00	0+32.00	LT	Quail Run	100	10	9.8	0.68	19,19A	0.44	2.9	0.0	2.9	2.9	0.90%	1/4"/ft	0.24	0.25	12	11.8	10	STD.	5.8	0.0	
20	20+74.00	0+32.00	LT	Quail Run	100	10	9.8	0.70	20,20A	0.40	2.8	0.0	2.8	2.9	0.90%	1/4"/ft	0.24	0.23	12	11.1	10	STD.	5.8	0.0	
21	19+80.85	0+32.00	LT	Quail Run	100	10	9.8	0.72	21,21A	0.32	2.3	0.0	2.3	2.9	0.90%	1/4"/ft	0.24	0.19	12	9.2	5	STD.	2.5	0.0	
22	0+80.04	0+20.50	LT	Hays Road	100	10	9.8	0.64	22	1.33	8.3	0.0	8.3	22.5	1.50%	0.3"/ft	0.5	0.18	20	5.5	15	STD.	11.5	0.0	
23	27+24.31	0+32.00	LT	Quail Run	100	10	9.8	0.70	26,26A	0.43	2.9	0.0	2.9	2.1	0.50%	6" pbl	0.24	0.33	12	9.9	10	STD.	6.8	0.0	
24	5+25.00	0+00.00	LT	Montrose	100	10.56	9.72	0.50	D4,29	7.79	37.8	0.0	37.8	33.6	1.39%	N/A	1.5	0.69	N/A	N/A	5'X5'	WYE	53.8	0.0	

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

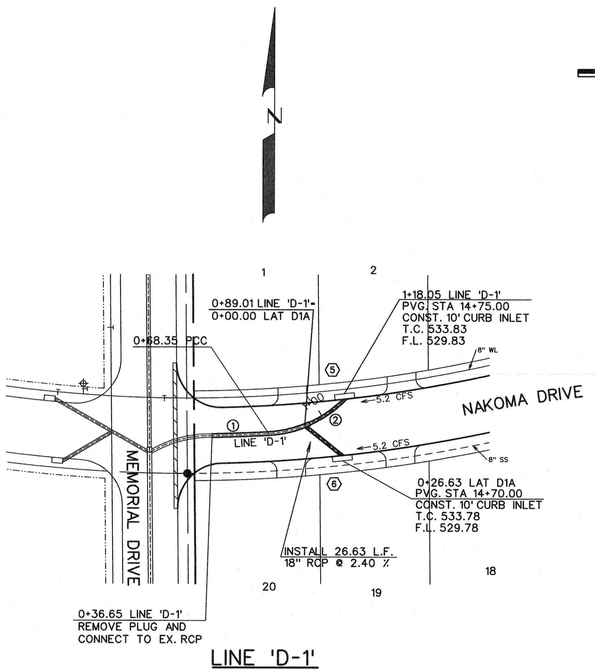
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/14/16

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

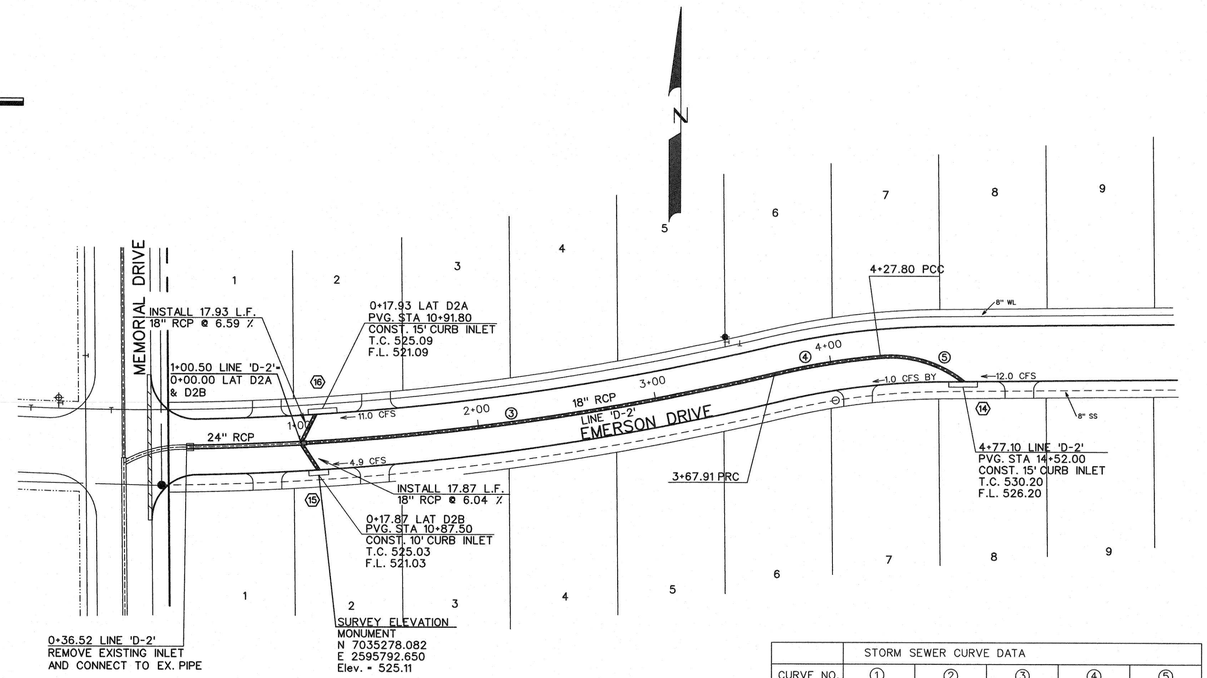
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

DRAINAGE CALCULATIONS

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE:	18 OF 32



LINE 'D-1'

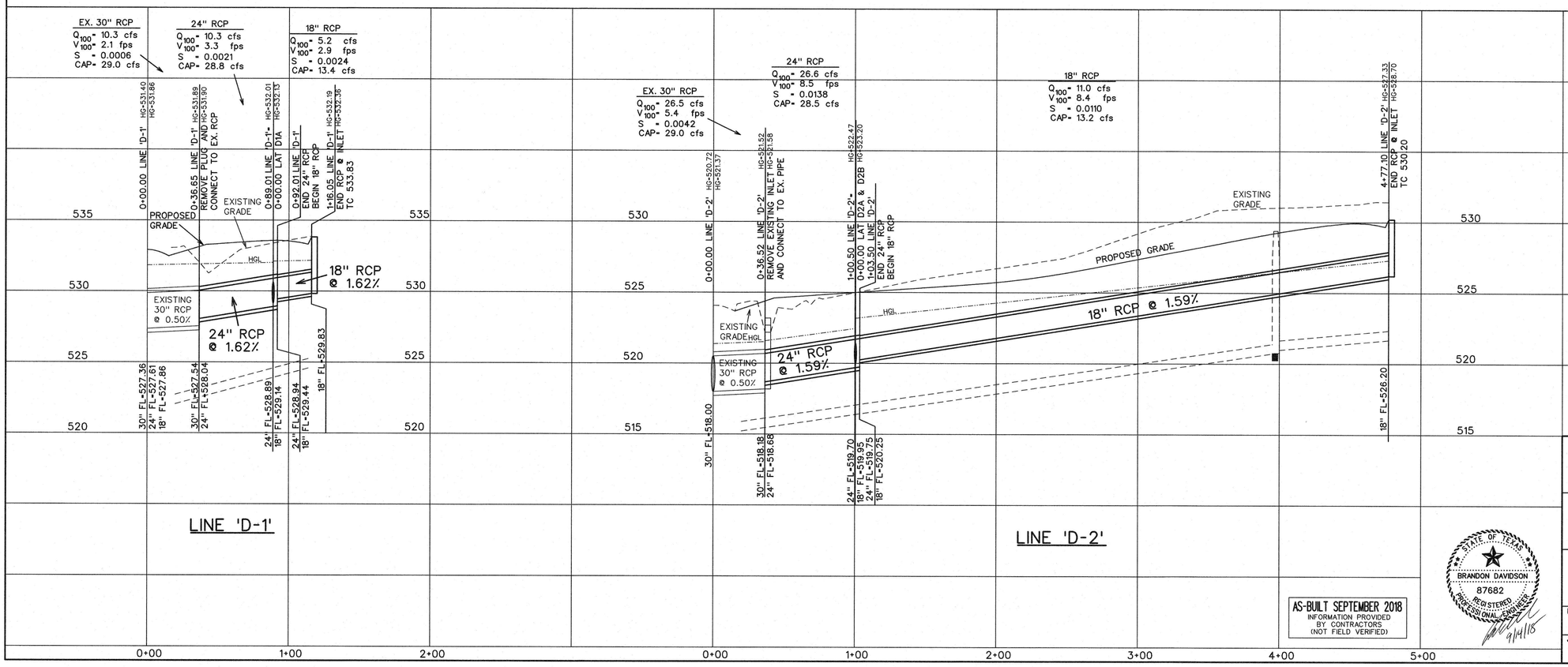


LINE 'D-2'

	STORM SEWER CURVE DATA				
CURVE NO.	①	②	③	④	⑤
Δ	02° 16'12"	42° 02'33"	12° 34'28"	08° 16'07"	43° 27'28"
R	800.00'	65.00'	1510.00'	415.00'	65.00'
T	15.85'	24.98'	166.37'	30.00'	25.90'
L	31.70'	47.70'	331.39'	59.89'	49.30'

LEGEND

- (B) - BLOCK LABEL
- ⟨19⟩ - INLET NUMBER
- ① - CURVE NUMBER
- SANITARY SEWER
- WATER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER



LINE 'D-1'

LINE 'D-2'

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

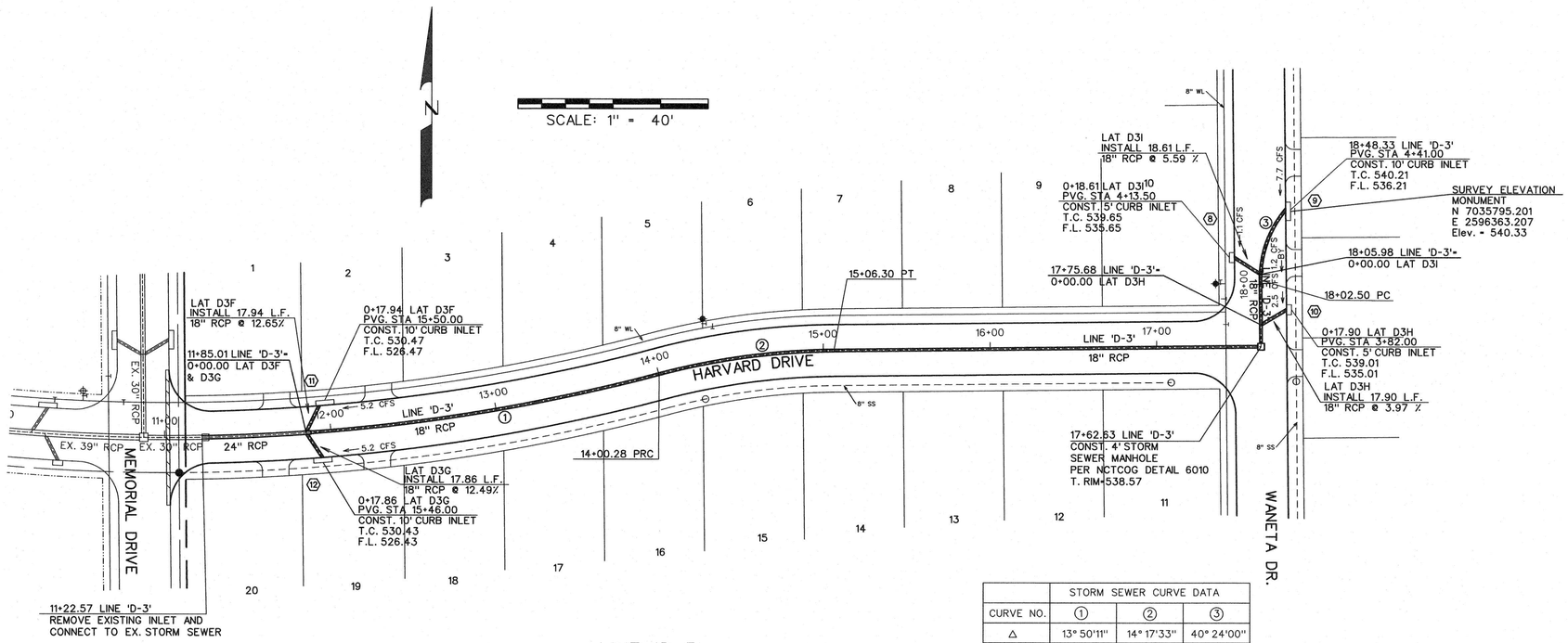
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/14/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
LINES 'D-1' & 'D-2'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	19 OF 32

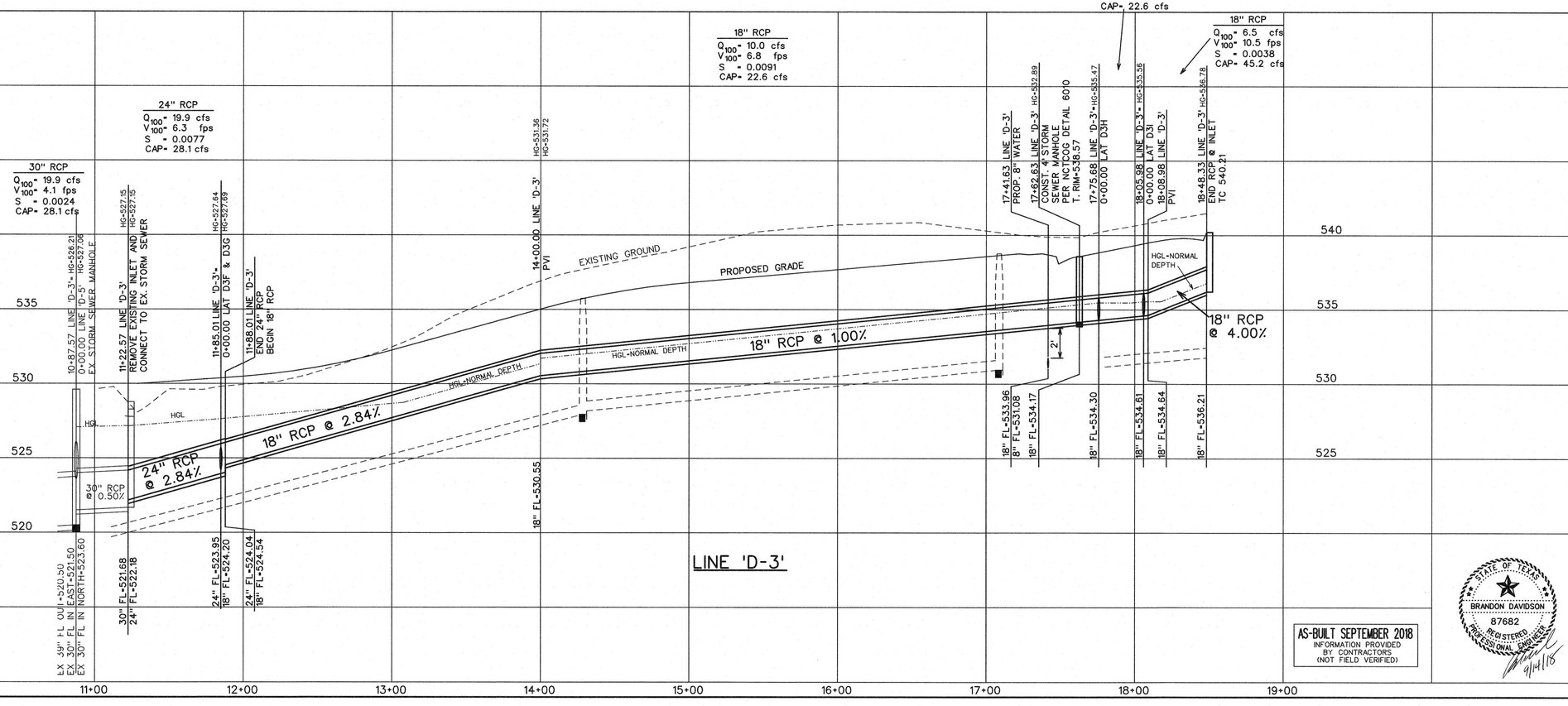


LINE 'D-3'

	STORM SEWER CURVE DATA		
CURVE NO.	①	②	③
Δ	13° 50'11"	14° 17'33"	40° 24'00"
R	1150.00'	425.00'	65.00'
T	139.54'	53.28'	23.92'
L	277.71'	106.02'	45.83'

LEGEND

- (B) - BLOCK LABEL
- (10) - INLET NUMBER
- (1) - CURVE NUMBER
- —○— - SANITARY SEWER
- — WATER
- ═══ - PROPOSED STORM SEWER
- ////// - EXISTING STORM SEWER



LINE 'D-3'

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED
PROFESSIONAL ENGINEER
9/14/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
LINE 'D-3'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	20 OF 32

SCALE: 1" = 40'

N

REMOVE PLUG AND CONNECT TO EX. 48" RCP

5+25.00 LINE 'D-4'
CONST. 5' WYE INLET WITH 2' CONCRETE APRON
TOP=522.95'
LIP=521.95'
FL=512.66

9+75.00 LINE 'D-4'
CONST. HEADWALL PER CH-FW

LAT. D4E
INSTALL 19.96 L.F. 18" RCP @ 6.16 %

0+17.96 LAT. D4E
PVG. STA 10+47.00
CONST. 10' CURB INLET
T.C. 534.24
F.L. 530.24

11+33.74 LINE 'D-4'
0+00.00 LAT D4F

12+54.72 LINE 'D-4'
PVG. STA 12+51.00
CONST. 15' CURB INLET
T.C. 536.06
F.L. 532.06

10+37.85 LINE 'D-4'
0+00.00 LAT D4E

LAT. D4F
INSTALL 17.84 L.F.
18" RCP @ 6.89 %

0+17.84 LAT. D4F
PVG. STA 11+42.50
CONST. 10' CURB INLET
T.C. 534.91
F.L. 530.91

12+07.86 PCC

MEMORIAL DRIVE

MONTROSE DRIVE

LINE 'D-4'
18" RCP

27" RCP

3.2 CFS

10.4 CFS

10.2 CFS

8"WL

8"SS

Q=33.8
S=1.39%
D=1.5'
V=3.9 FPS
n=0.036

SECTON D-D

STORM SEWER CURVE DATA		
CURVE NO.	①	②
Δ	16° 10'20"	41° 18'12"
R	825.00'	65.00'
T	117.21'	24.50'
L	232.86'	46.86'

LINE 'D-4'

LEGEND

- (B) - BLOCK LABEL
- (19) - INLET NUMBER
- (1) - CURVE NUMBER
- —○— - SANITARY SEWER
- — - WATER
- ═══ - PROPOSED STORM SEWER
- ZZZZZZ - EXISTING STORM SEWER

27" RCP
Q_{100} = 23.6 cfs
V_{100} = 7.4 fps
S = 0.0058
CAP= 25.9 cfs

27" RCP
Q_{100} = 20.5 cfs
V_{100} = 5.2 fps
S = 0.0044
CAP= 25.9 cfs

18" RCP
Q_{100} = 10.2 cfs
V_{100} = 8.0 fps
S = 0.0094
CAP= 12.9 cfs

24" RCP
Q_{100} = 33.8 cfs
V_{100} = 10.8 fps
S = 0.0223
CAP= 34.3 cfs
PARTIAL FLOW
VEL=12.4

Q=33.8
S=1.39%
D=1.5'
V=3.9 FPS
n=0.036

4+95.00 LINE 'D-4' HG=512.32
END AND PLUG 48" RCP HG=510.97
REMOVE PLUG AND CONNECT TO EX. 48" RCP

5+25.00 LINE 'D-4' HG=514.82
CONST. 5' WYE INLET WITH 2' CONCRETE APRON
TOP=522.95
LIP=521.95
FL=512.66

9+75.00 LINE 'D-4' HG=530.44
CONST. HEADWALL PER CH-FW
INSTALL 32 SY GROUTED ROCK RIP RAP MIN. 6" DIM.

10+14.50 LINE 'D-4'
PROP. 8" WATER

10+37.85 LINE 'D-4' HG=530.81
0+00.00 LAT D4E HG=531.51

11+33.74 LINE 'D-4' HG=531.93
0+00.00 LAT D4F HG=532.00

11+36.74 LINE 'D-4'
END 27" RCP
BEGIN 18" RCP

12+54.72 LINE 'D-4' HG=533.14
END RCP @ INLET HG=534.38
TC 536.06

EXISTING GROUND

PROPOSED GRADE

HGL

GRADE TO DRAIN @ 1.39%

27" RCP @ 0.70%

18" RCP @ 1.50%

2'

HGL-NORMAL DEPTH

24" RCP @ 2.30%

48" FL=509.97
24" FL=511.97

24" FL=512.66

27" FL=528.19

27" FL=528.47
8" FL=525.50

27" FL=528.63
18" FL=529.01

27" FL=529.30
18" FL=529.68

27" FL=529.33
18" FL=530.08

18" FL=532.06

540
535
530
525

4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00

LINE 'D-4'

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

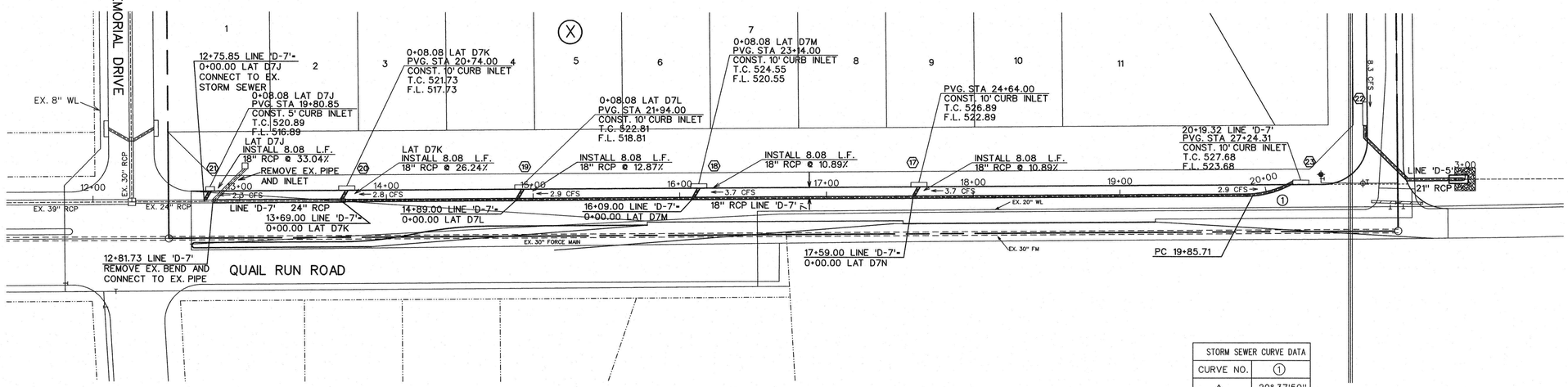
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/14/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

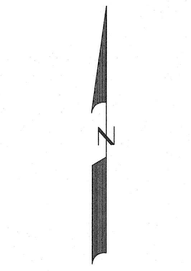
STORM SEWER PLAN AND PROFILE
LINE 'D-4'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	21 OF 32



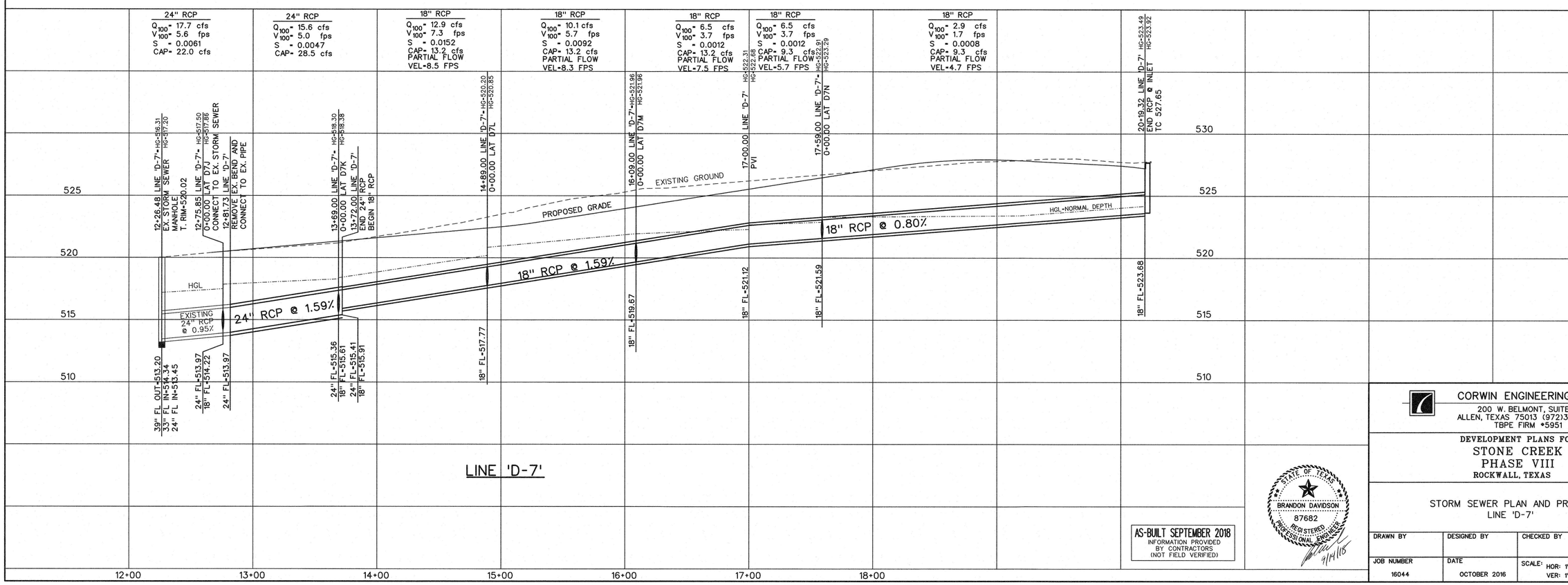
LINE 'D-7'

STORM SEWER CURVE DATA	
CURVE NO.	①
Δ	29° 37'50"
R	65.00'
T	17.19'
L	33.61'



LEGEND

- (B) - BLOCK LABEL
- (19) - INLET NUMBER
- (1) - CURVE NUMBER
- SANITARY SEWER
- WATER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER



LINE 'D-7'

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

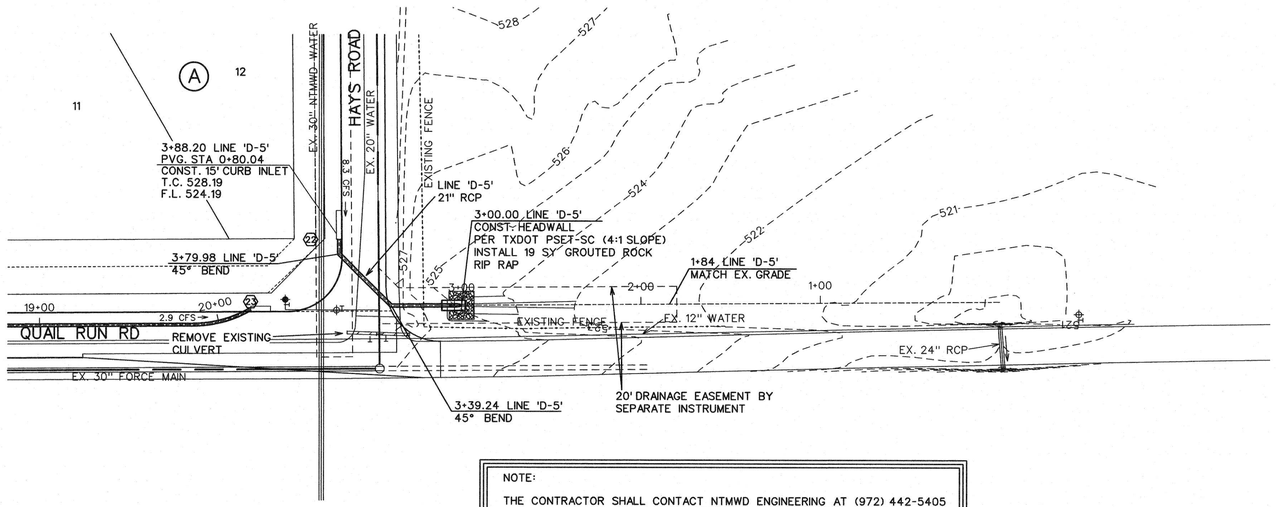
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED
PROFESSIONAL ENGINEER
9/11/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
LINE 'D-7'

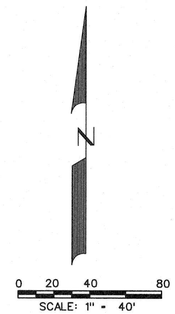
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	22 OF 32



LINE 'D-5'

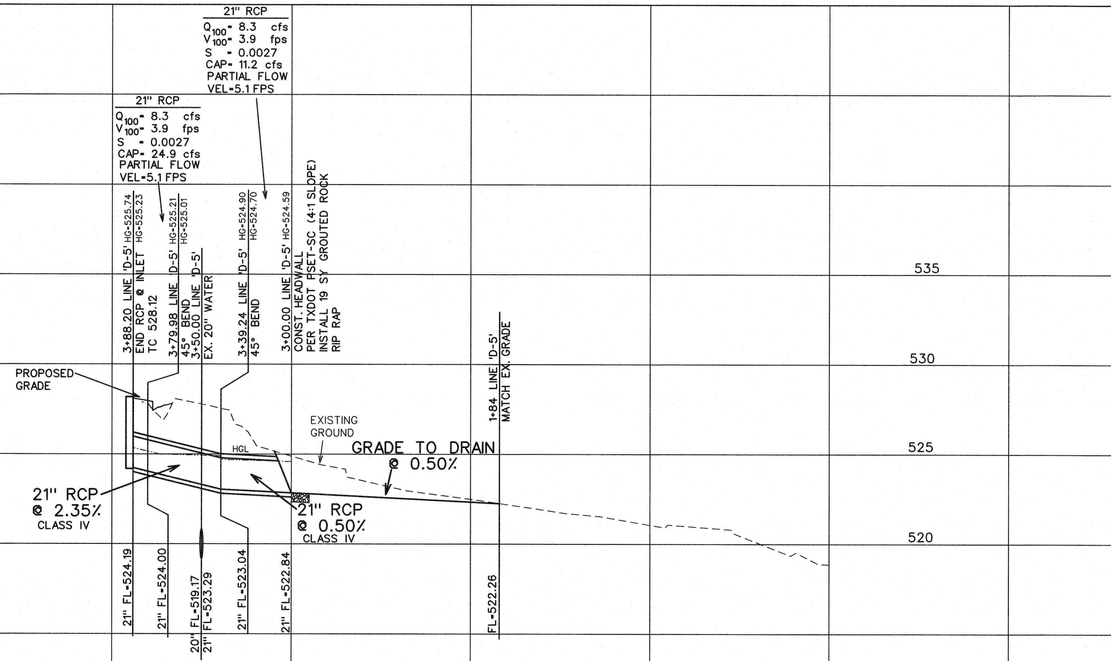
NOTE:

THE CONTRACTOR SHALL CONTACT NTMWD ENGINEERING AT (972) 442-5405 AT LEAST 48 HOURS PRIOR TO PERFORMING WORK IN THE VICINITY OF THE NTMWD FACILITIES



LEGEND

- (B) - BLOCK LABEL
- (19) - INLET NUMBER
- (1) - CURVE NUMBER
- SANITARY SEWER
- WATER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER



LINE 'D-5'

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

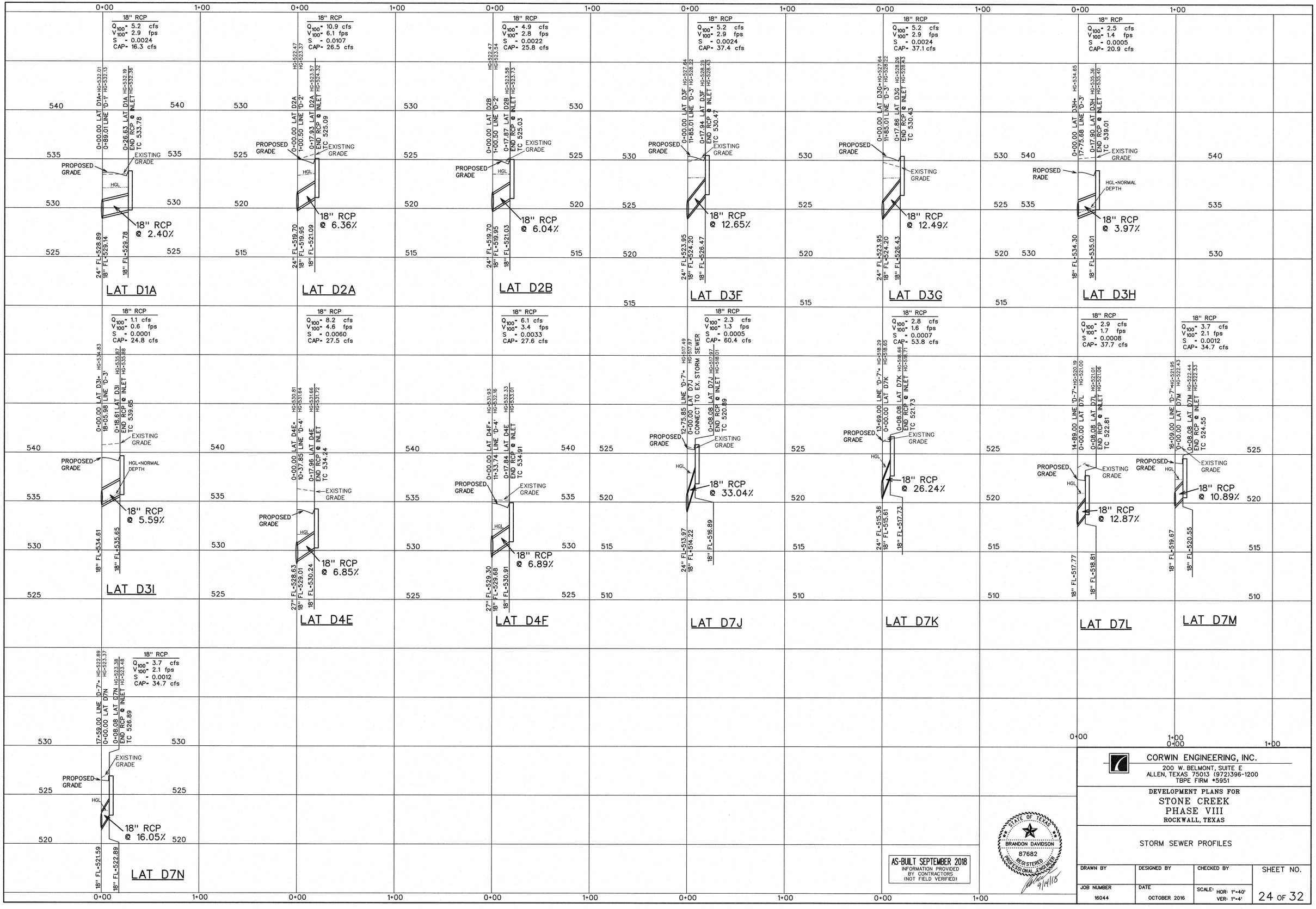
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED
PROFESSIONAL ENGINEER
9/14/18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
LINE 'D-5'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	23 OF 32



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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

STORM SEWER PROFILES

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: HOR: 1"=40' VER: 1"=4'	24 OF 32

REVISION #1

HAYS RD.

WANETA DR.

MONTROSE DRIVE

NAKOMA DRIVE

HARVARD DRIVE

EMERSON DRIVE

QUAIL RUN ROAD

MEMORIAL DRIVE

FP-545.8 FP-544.3 FP-543.4 FP-542.8 FP-542.3 FP-541.7 FP-541.1 FP-540.2 FP-539.3 FP-538.5 FP-537.6 FP-536.8 FP-536.3

FP-544.0 FP-544.4 FP-544.8 FP-545.0 FP-545.0 FP-544.7 FP-544.2 FP-543.8 FP-543.4 FP-542.8 FP-541.6 FP-540.4 FP-539.2 FP-538.0 FP-536.8 FP-535.6 FP-534.4 FP-534.1

FP-543.3 FP-541.9 FP-541.3 FP-540.8 FP-539.9 FP-539.0 FP-538.0 FP-537.1 FP-536.4 FP-535.9

FP-543.8 FP-543.8 FP-543.2 FP-542.6 FP-541.4 FP-540.1 FP-538.7 FP-537.2 FP-535.7 FP-534.8

FP-543.8 FP-543.8 FP-543.2 FP-542.6 FP-541.5 FP-540.0 FP-538.5 FP-536.9 FP-535.6 FP-534.8

FP-540.5 FP-540.0 FP-539.4 FP-538.9 FP-538.0 FP-536.9 FP-535.3 FP-533.6 FP-533.1 FP-532.8

FP-539.4 FP-539.4 FP-538.9 FP-538.2 FP-537.8 FP-536.7 FP-535.0 FP-533.4 FP-532.1 FP-531.5

FP-533.3 FP-532.9 FP-532.3 FP-531.8 FP-531.1 FP-529.9 FP-528.7 FP-527.7 FP-527.2 FP-526.7

FP-533.3 FP-532.9 FP-532.6 FP-532.0 FP-531.5 FP-530.5 FP-529.3 FP-528.1 FP-527.1 FP-526.6 FP-526.2

Q=10.0 S=1.00% D=1.0' V=2.5 FPS n=0.036

Q=10.0 S=2.00% D=0.9' V=3.3 FPS n=0.036

SECTON A-A

BENCHMARK:

CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.
ELEV.= 525.31

DRIVEWAY LOCATION SO MAXIMUM 14% SLOPE OR UNDER IS MAINTAINED, OR AS TO AVOID INLET OR MIN. DISTANCE FROM INTER- SECTION (DRIVEWAY MAY BE PLACED AT ALTERNATE LOCATION WITH USE OF A DROP GARAGE AS LONG AS MAXIMUM SLOPE IS 14% OR UNDER)

Note:

Each lot will need a detailed grading plan with building permit submittal. This is a general grading plan for site work only.

NOTE:

RETAINING WALLS 3' IN HEIGHT AND OVER NEED A ENGINEERED SEALED PLAN. (PLANS TO BE SUBMITTED PRIOR TO ENGINEERING APPROVAL)

NOTES:

1. Finish Floor Elevation to be 0.70 Feet above Finished Pad.(FP)
2. Additional Erosion Control to be installed in Parkways as determined by the City Inspector.
3. Finished Pad Elevations are within ± 0.3 Feet.
4. All fill compacted to min 95% std. density using sheeps foot roller.
5. All portions of the wall to be on one lot. Do not install on property line or in easements or right of way.

SCALE: 1" = 50'

LEGEND

SPOT ELEVATION

EXIST. CONTOUR --700--

PROP. CONTOUR —704—

RETAINING WALL

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED PROFESSIONAL ENGINEER

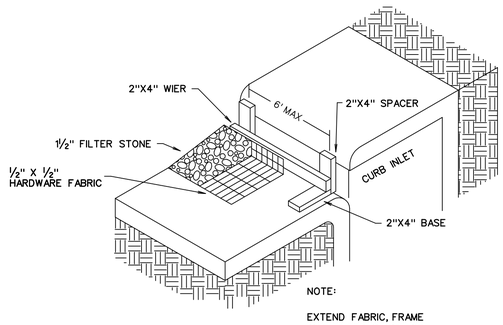
NO.	REVISIONS	DATE
1	REMOVED RETAINING WALL, REVISED SWALE	7-1-17

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

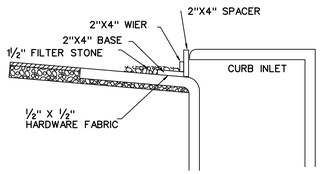
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

GRADING PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=50'	25 OF 32

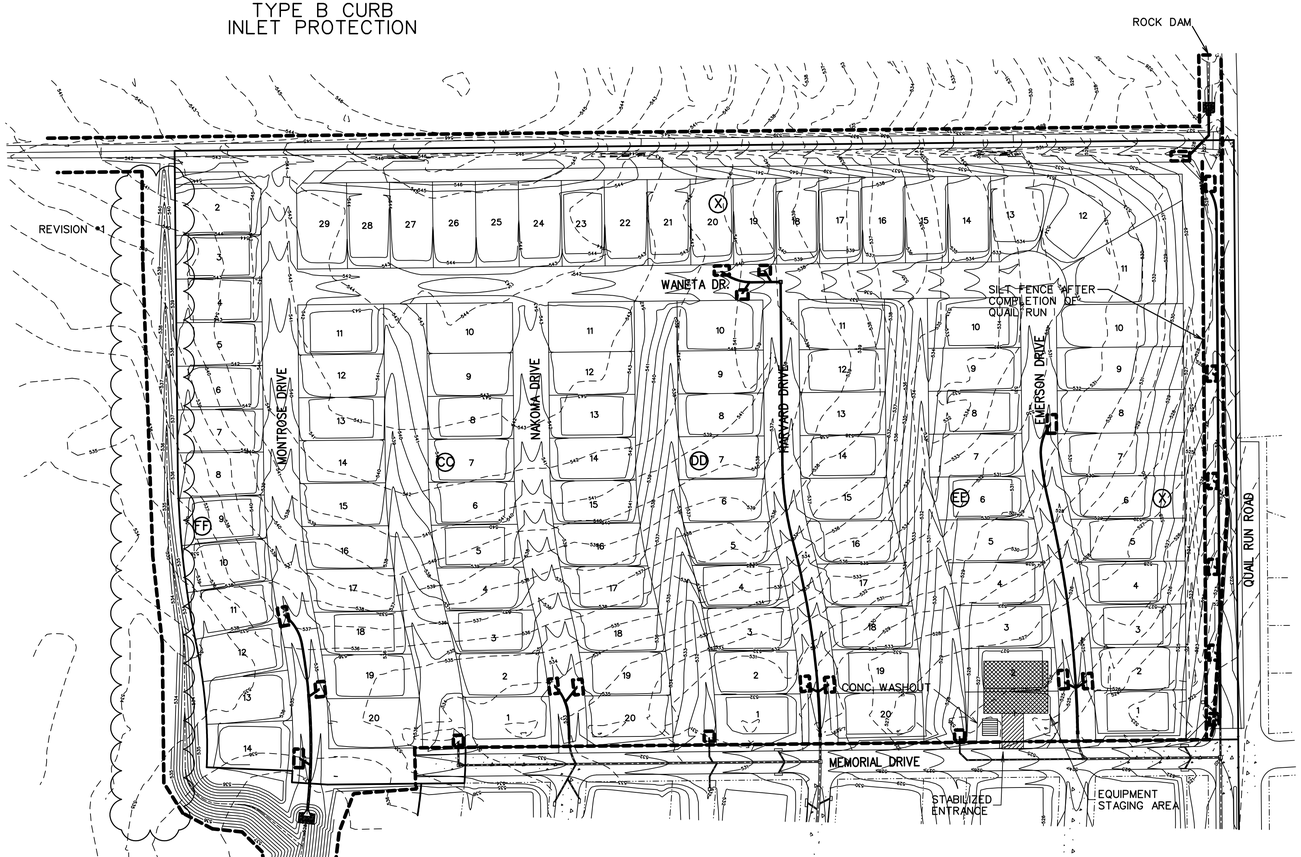


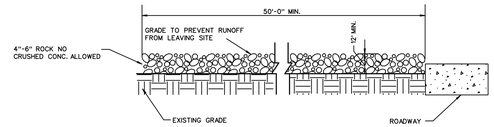
NOTE:
EXTEND FABRIC, FRAME AND FILTER STONE 12" BEYOND END OF INLET ON BOTH ENDS.



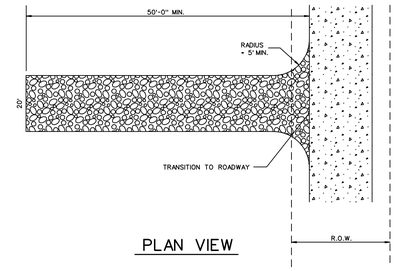
INLET SECTION

TYPE B CURB INLET PROTECTION





PROFILE

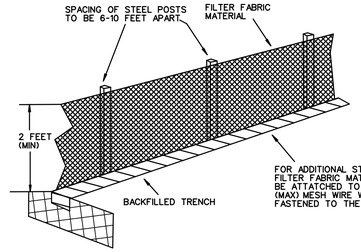


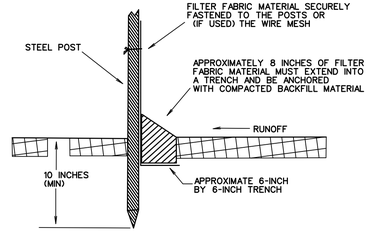
PLAN VIEW

STABILIZED ENTRANCE DETAIL

CONSTRUCTION SEQUENCE

1. GRADING CONTRACTOR TO INSTALL TEMPORARY STABILIZED ENTRANCE.
2. INSTALL SILT FENCE AS SHOWN, (TS-600 POLY FELT) PER C.O.G. SPECIFICATIONS.
3. PERFORM GRADING AND UTILITY CONSTRUCTION.
4. AFTER THE INLET BOTTOMS ARE CONSTRUCTED, THE INLETS SHALL BE FILLED WITH STONE AND COVERED WITH A FILTER FABRIC (TS-600 POLY FELT OR EQUIVALENT) BY UTILITY CONTRACTOR.
5. PRIOR TO CITY RELEASING PAVING, SOD OR SEEDED CURLEX SHALL BE INSTALLED ON SIDES AND BOTTOM OF ALL DETENTION PONDS.
6. AFTER PAVING AND COMPLETION OF INLETS, INLET FILTERS SHALL BE INSTALLED IN ALL INLETS AND MAINTAINED UNTIL RE-VEGETATION HAS BEEN COMPLETED BY PAVING CONTRACTOR.
7. SILT FENCE SHALL REMAIN IN PLACE UNTIL RE-VEGETATION HAS BEEN COMPLETED.
8. PAVING CONTRACTOR SHALL REMOVE TEMPORARY STABILIZED ENTRANCE.
9. PRIOR TO CITY ACCEPTANCE THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY MUD OR SILT WHICH COLLECTS ON THE EXISTING AND NEW PAVEMENT.
10. PRIOR TO CITY ACCEPTANCE 75-80% OF ALL DISTURBED AREA SHALL HAVE A MIN. 1" TALL GRASS ESTABLISHED
11. 75-80% OF ALL DISTURBED AREA TO HAVE 1" HIGH GRASS ESTABLISHED PRIOR TO ENGINEERING ACCEPTANCE.
12. ALL BAR DITCHES TO BE ANCHORED, SEEDED & CURLEXED PRIOR TO ACCEPTANCE OF GRASS ISN'T ESTABLISHED.





FILTER FABRIC FENCE DETAIL

LEGEND

SILT FENCE (BEFORE CONSTRUCTION) ---------

INLET PROTECTION

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

NO.	REVISIONS	DATE
1	REVISED SILT FENCE LOCATION	9-1-17

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

EROSION CONTROL PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	26 OF 32

Regulatory signs should be used only where justified by engineering judgment. All signage plans shall be reviewed and approved by the City of Rockwall Engineering Division and be designed in accordance with the principles described in the current Texas Manual on Uniform Traffic Control Devices (TMUTCD).

All street and regulatory signage shall be installed, inspected and approved, prior to final acceptance of the project. This inspection typically takes place as part of the Engineering Division 5/32s final walkthrough. Any sign related issue/issues will be noted on the projects final punch list.

A. A detailed street and regulatory signage plan is to be submitted to the City of Rockwall Engineering Division. All signs shall be shown in the engineering plans for review and approval. The signage plan shall be shown on a separate signage & pavement marking layout sheet or as a part of the plan & profile sheet. The plan shall identify the specific sign designation, size and location for each sign. Sign standards shall also be included in the engineering plans.

B. All signage installed shall comply with the current Texas Manual on Uniform Traffic Control Devices and the Standard Highway Sign Designs for Texas. The sign layout drawings shall show the color and dimensions

of all sign face legend components including background color, legend color, borders, symbols, letter size and style.

C. The developer shall be responsible for furnishing and installing all regulatory signage, warning signage and street name signage along with all necessary sign mounts in accordance with the approved engineering plans. A sample production sign shall be submitted to the Traffic Signs & Pavement Markings Supervisor for review and approval. The sample shall be directed to the City of Rockwall Service Center located at 1600 Airport Road, Rockwall Texas 75087. The sample sign must be submitted at least 10 days prior to the scheduled installation date.

D. For a street with a cul-de-sac end, a standard W 14-2a shall be mounted over the street name blade, if the cul-de-sac is not clearly visible from the adjoining roadway, or is located in excess of 400 linear feet from the adjoining roadway.

E. Sign posts shall be 2⅜O.D. galvanized steel tube sign post with a galvanized finish.

F. Sign clamps and brackets shall be high strength aluminum.

SCALE: 1" = 100'

N

A. Street name sign blades shall be double-sided with rounded corners.

B. Street Name Blades shall be nine-inch (9") tall flat aluminum. The blades shall be 0.080 inches thick and be a minimum of 36" long.

C. The lettering for the street signs shall be 3M 3930 high Intensity prismatic material sheeting for street, regulatory and warning signs and shall be high intensity diamond grade type III prismatic. The street sign background shall be green and the legend shall be white.

D. The street sign blade must incorporate the current City of Rockwall logo. The logo shall consist of white Scotchlite Series 3930 high intensity prismatic material. (Product Code 3930)

E. Block Numbers are required on all street name blades and shall be located on the top right corner of the street blade.

F. The lettering for the street blades shall be composed of a combination of lower-case letters with initial upper-case letters. The Clearview TCAD-1W font shall be used. The lettering shall be composed of initial upper-case letters of at least 6 inches in height and lower case letters of at least 4.5 inches in height. For supplementary lettering to indicate the type of street

(such as Street, Avenue or Road) shall be composed of initial upper-case letters at least 3-inches in height and lower-case letters at least 2.25 inches in height. Abbreviations may be used (for example St., Ave., or Rd) except the street name itself. The supplementary lettering shall be located at the lower right corner of the street blade, under the block number.

G. The street blade sign shall consist of green Scotchlite 3930 high intensity prismatic material background (product code 3937) and white Scotchlite 3930 high intensity prismatic material for the lettering (product code 3930). The background sheeting shall be white 3M 3990 high intensity prismatic material. The background material shall be applied to the full width and height of the sign blank leaving no metal exposed. The background material shall be one continuous piece of material. Patching of background material is not allowed and any sign with patching material of any type will be rejected by the City.

Alternative Option:
As an alternative, the foreground color may be green transparent Scotchlite ElectroCut1177 film (E.C. film). Lettering shall be cut out and removed producing a single continuous piece of green transparent film material.

Street address markers shall be installed for each lot in the subdivision. The markers shall be located at the center of the lot on the face of the curbs. The address markers shall have a deep green background with reflective white numbers. The number size shall be four (4) inches in height. The background of the address marker shall be eighteen (18) inches in length and from the top of curb to the gutter flow line. The address marker shall show the full numerical portion of the address of the lot.

All signage for multifamily, commercial, retail and industrial developments are required to have a separate permit from the building department. Signs, including any overhangs, are not allowed in any right-of-ways and/or easements. Location of any signage is not approved on engineering plans.

LEGEND
- STREET LIGHT
- STOP SIGN
- STREET NAME BLADE

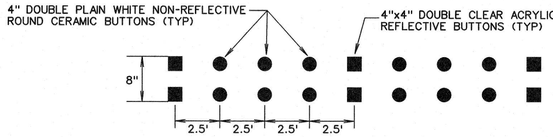
AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

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

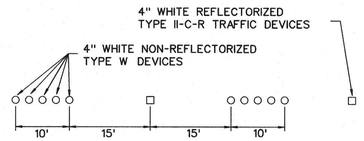
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

SIGN AND LIGHT PLAN

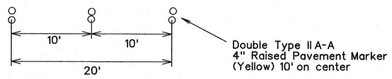
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=100'	27 OF 32



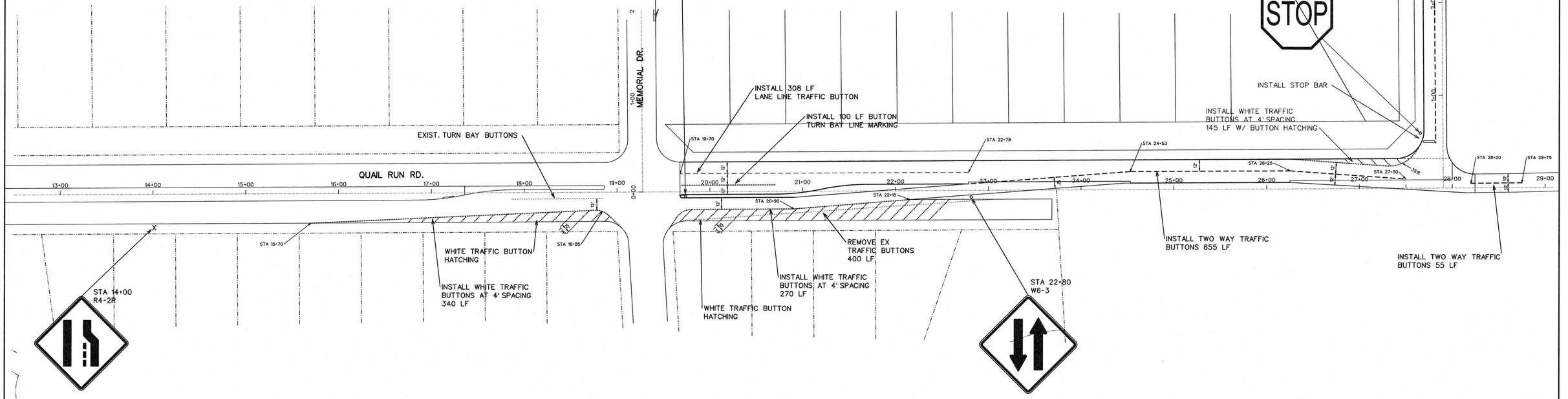
BUTTON TURN BAY LINE MARKING DETAIL
N.T.S



TYPICAL LANE-LINE TRAFFIC BUTTON DETAIL
NTS



TWO WAY TRAFFIC BUTTON DETAIL
NTS



AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

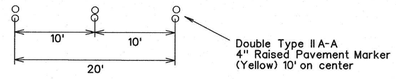
9.27.18
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED
PROFESSIONAL ENGINEER

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

QUAIL RUN ROAD TRAFFIC SIGNAGE PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=50'	28 OF 32

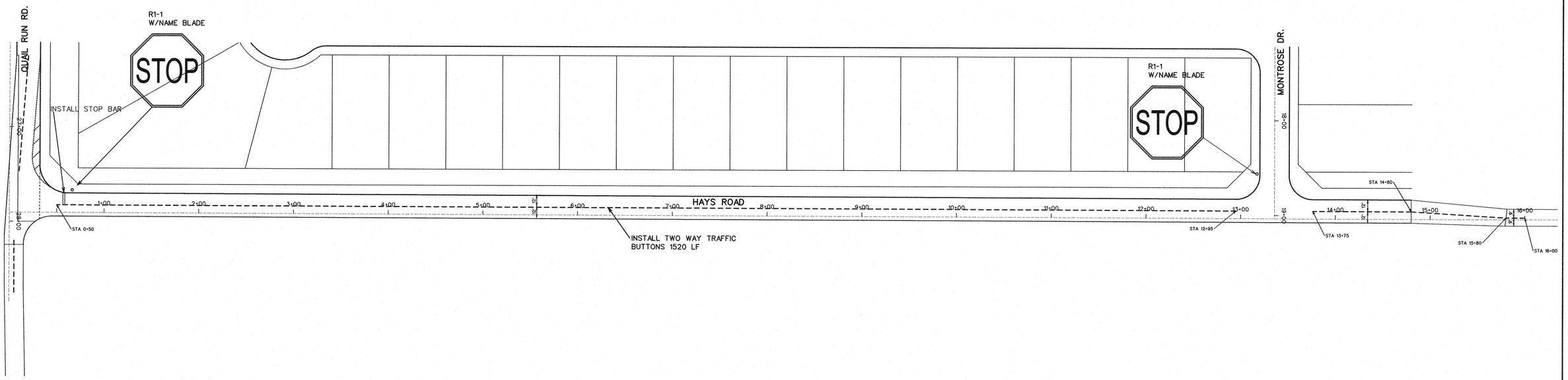


TWO WAY TRAFFIC BUTTON DETAIL

NTS

N

SCALE: 1" = 50'



AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)

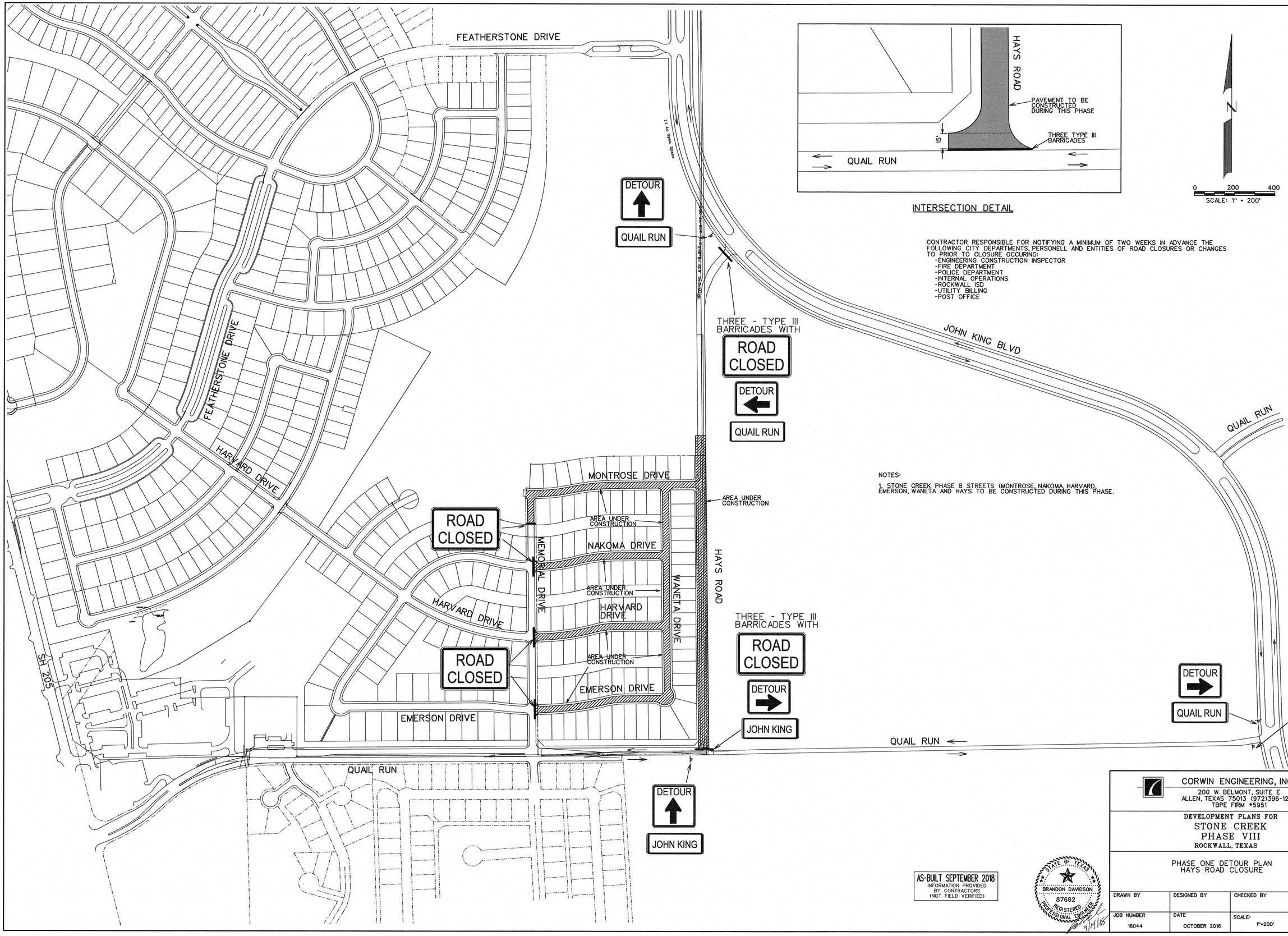
STATE OF TEXAS
WARREN L. CORWIN
57875
REGISTERED
PROFESSIONAL ENGINEER
9.17.18

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

DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

HAYS ROAD TRAFFIC SIGNAGE PLAN

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=50'	29 OF 32



CONTRACTOR RESPONSIBLE FOR NOTIFYING A MINIMUM OF TWO WEEKS IN ADVANCE THE FOLLOWING CITY DEPARTMENTS, PERSONELL AND ENTITIES OF ROAD CLOSURES OR CHANGES TO PRIOR TO CLOSURE OCCURING:

- -ENGINEERING CONSTRUCTION INSPECTOR
- -FIRE DEPARTMENT
- -POLICE DEPARTMENT
- -INTERNAL OPERATIONS
- -ROCKWALL ISD
- -UTILITY BILLING
- -POST OFFICE

NOTES:

1. STONE CREEK PHASE 8 STREETS (MONTROSE, NAKOMA, HARVARD, EMERSON, WANETA AND HAYS TO BE CONSTRUCTED DURING THIS PHASE.

AS-BUILT SEPTEMBER 2018
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)

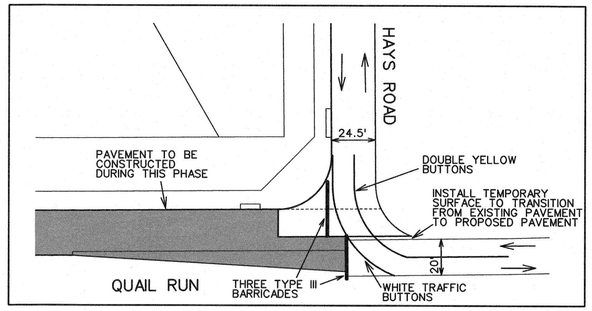
STATE OF TEXAS
BRANDON DAVIDSON
87682
REGISTERED PROFESSIONAL ENGINEER
9/14/18

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

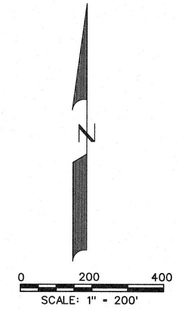
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

PHASE ONE DETOUR PLAN
HAYS ROAD CLOSURE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=200'	30 OF 32



INTERSECTION DETAIL



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NOTES:

1. QUAIL RUN SHALL NOT BE CLOSED UNTIL HAYS ROAD, MEMORIAL DRIVE, AND MONTROSE DRIVE ARE OPEN FOR TRAFFIC.

2. ALL IMPROVEMENTS ALONG THE DETOUR ROUTE TO BE USED MUST BE FINAL ACCEPTED BY THE CITY OF ROCKWALL BEFORE THE DETOUR ROUTE CAN BE OPENED TO TRAFFIC.

AS-BUILT SEPTEMBER 2018
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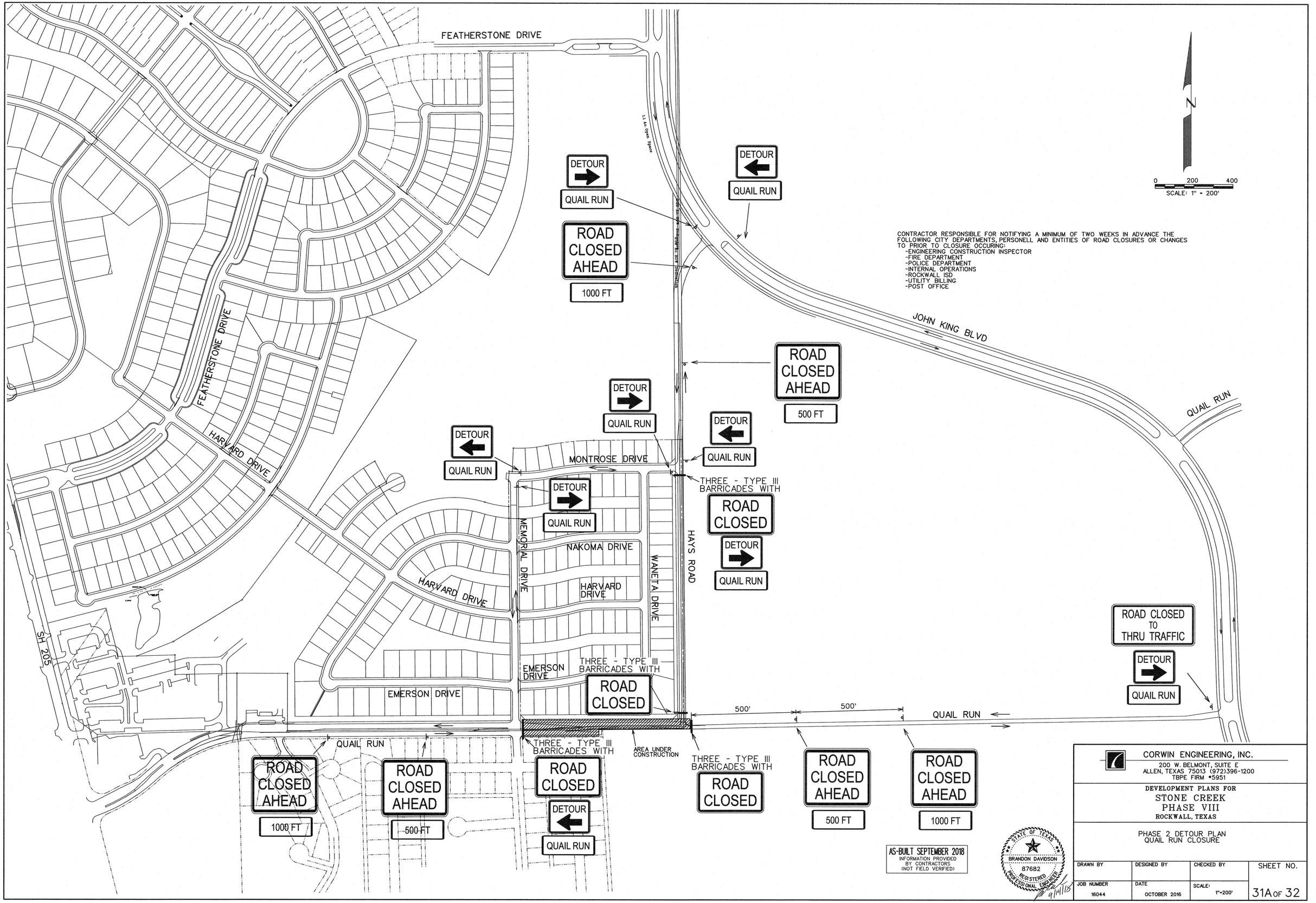
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

PHASE 2 DETOUR PLAN
QUAIL RUN CLOSURE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=200'	31 OF 32



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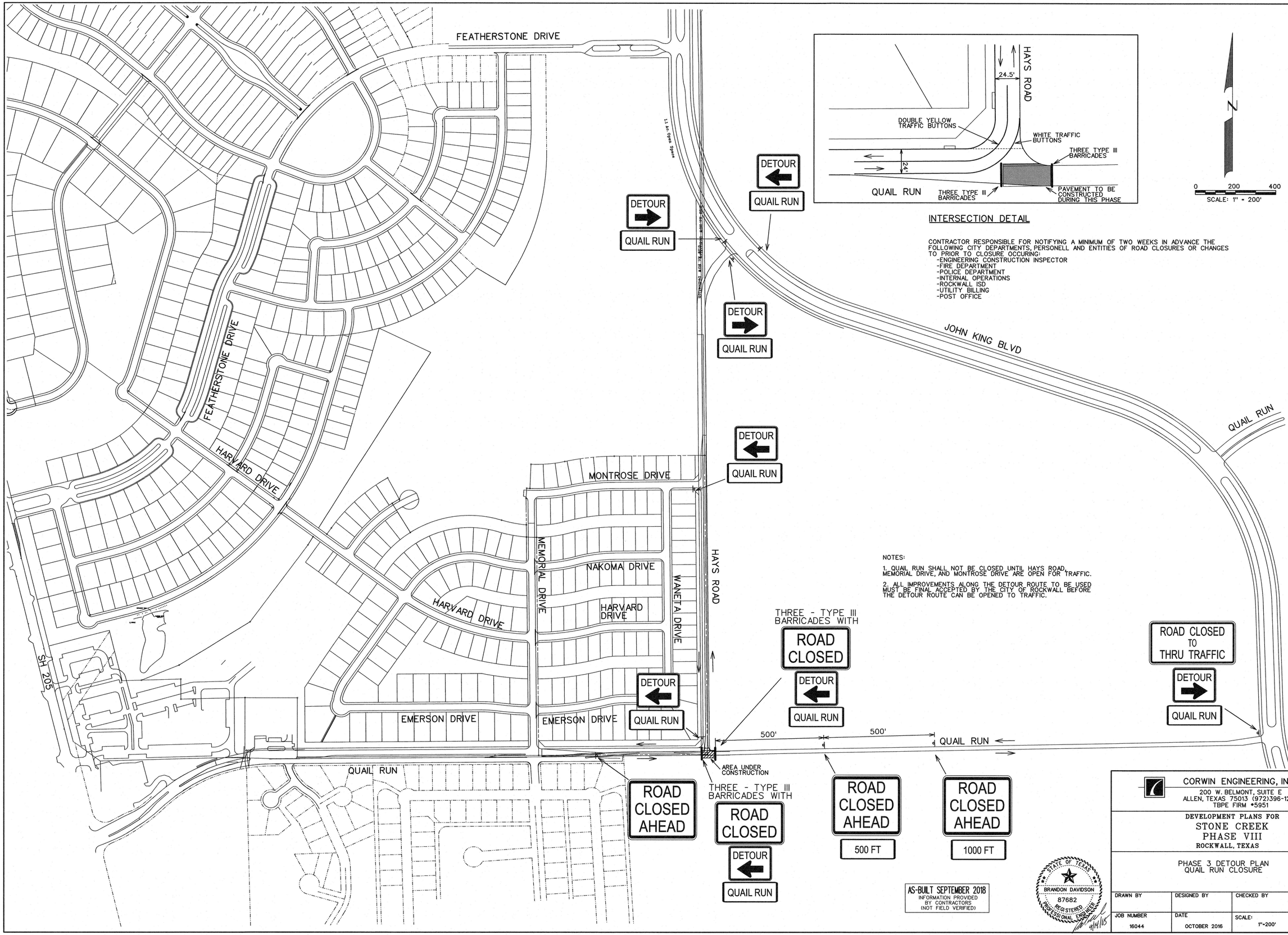
DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

PHASE 2 DETOUR PLAN
QUAIL RUN CLOSURE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=200'	31A OF 32



INTERSECTION DETAIL

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DEVELOPMENT PLANS FOR
STONE CREEK
PHASE VIII
ROCKWALL, TEXAS

PHASE 3 DETOUR PLAN
QUAIL RUN CLOSURE

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 16044	DATE OCTOBER 2016	SCALE: 1"=200'	32 OF 32