CIVIL SITE IMPROVEMENTS

TO SERVE

FROST BANK
ROCKWALL FINANCIAL CENTER

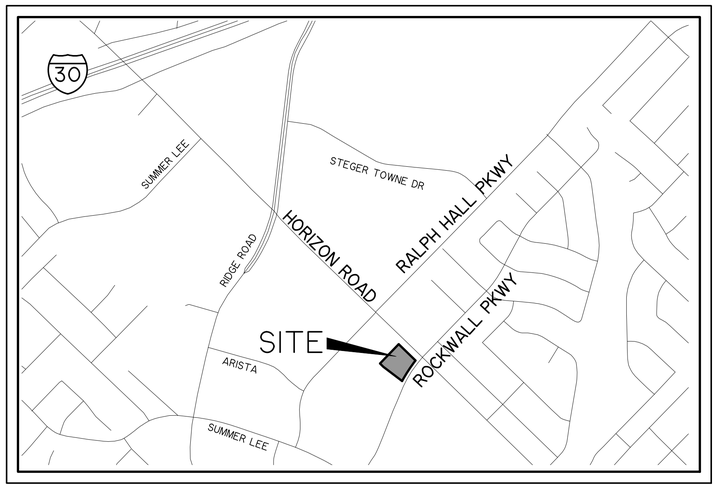
LOT 2, BLOCK A,

ALLEN ANDERSON ADDITION

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

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

CITY _____ DATE _____



VICINITY MAP
NOT TO SCALE

SHEET INDEX

NOTE:
1.) ALL REFERENCES TO 'CITY' SHALL MEAN 'CITY OF ROCKWALL'.

2.) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL AND NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT STANDARD SPECIFICATIONS.

3.) CITY OF ROCKWALL STANDARD DETAIL SHEETS INCORPORATED HEREIN BY REFERENCE.

4.) REFER TO CITY WEBSITE TO CONFIRM CURRENT STANDARDS. STANDARDS CHANGE OFTEN THEREFORE CONTRACTORS MUST VERIFY CURRENT STANDARDS.

5. ALL MATERIALS FURNISHED AND INSTALLED SHALL EITHER 1) BE AMONGST THOSE LISTED ON CITY'S PROJECT MATERIAL SUBMITTAL CHECKLISTS (IN WHICH CASE, APPLICANT NEED NOT PROVIDE MATERIAL SUBMITTALS), OR 2) BE OR-EQUAL MATERIALS CONFORMING TO THE SPECIFICATIONS ON THE THAT CHECKLIST (IN WHICH CASE APPLICANT SHALL PROVIDE CORRESPONDING MATERIAL SUBMITTALS TO PUBLIC WORKS INSPECTIONS DEPARTMENT OF CITY REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.)

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com

DEVELOPER:
FROST BANK
3838 ROGER ROAD
SAN ANTONIO, TX 78251
PHONE: (210) 220-5842
CONTACT: ROSS WOOD
ROSS.WOOD@FROSTBANK.COM

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ARLINGTON, TEXAS 76006
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CONTACT: PRIYA ACHARYA, P.E.
PRIYAA@WIERASSOCIATES.COM

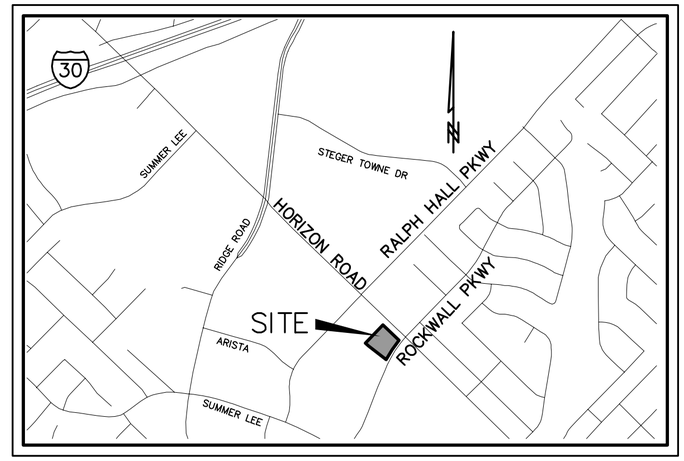
REVISIONS:
MARK DATE DESCRIPTION

W.A.# 21089 - CIVIL SITE IMPROVEMENTS TO SERVE LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, DENTON, TEXAS.

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 3/3/2022 9:31 AM SAVED BY: CHRISTOFERA FILE: C001 COVER SHEET.DWG

PRELIMINARY
FOR REVIEW PURPOSES ONLY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.



VICINITY MAP
NOT TO SCALE

LOT 2, BLOCK 1
OUR SAVIOR LUTHERAN CHURCH ADDITION
INST. NO. 20210000019739
O.P.R.R.C.T.

STATE OF TEXAS
INST. NO. 20130000499503
O.P.R.R.C.T.

60.0'
59.7'

PLACE OF BEGINNING
1/2" IRS "WIER"

HORIZON ROAD
(F.M. HWY. 3097)
(VARIABLE WIDTH RIGHT-OF-WAY)
VOL. 86, PG. 98
D.R.R.C.T.

S45°47'20"E 191.42'

45.3'

10' UTILITY EASEMENT
CAB. G, SL. 213
P.R.R.C.T.

24' FIRE LANE & CROSS ACCESS EASEMENT
CAB. G, SL. 213
P.R.R.C.T.

TXU GAS COMPANY EASEMENT
VOL. 1947, PG. 20
D.R.R.C.T.

L15 C7 L14 C8 C9 L13 C6 C5 C4

LOT 1, BLOCK A
ALLEN ANDERSON ADDITION
CAB. G, SL. 213
P.R.R.C.T.

DR. THOMAS V. RIPP &
HAZEL T. RIPP
(TRACT ONE)
VOL. 1822, PG. 167
D.R.R.C.T.

POINT FROM WHICH
1/2" IRF "WAI" BEARS
N67°50'38"E, 0.81'

N44°12'44"E 240.00'

20' UTILITY EASEMENT
CAB. G, SL. 213
P.R.R.C.T.

L16 L12

R.O.W. DEDICATION
CAB. G, SL. 213
P.R.R.C.T.

10' SOUTHWESTERN BELL COMPANY
EASEMENT
VOL. 1591, SL. 288
D.R.R.C.T.

25' BUILDING LINE
CAB. G, SL. 213
P.R.R.C.T.

10' UTILITY EASEMENT
CAB. F, SL. 156
P.R.R.C.T.

24' ACCESS EASEMENT
CAB. G, SL. 213
P.R.R.C.T.

LOT 2, BLOCK A
ALLEN ANDERSON ADDITION
CAB. G, SL. 213
P.R.R.C.T.

FROST BANK
DOC. No. 20210000035403
O.P.R.R.C.T.

EDWARD TEAL SURVEY
ABSTRACT NO. 207

N: 7012083.08
E: 2592380.89

S45°47'20"E
16.96'

S03°37'10"E
25.77'

1/2" IRS "WIER"

"X" CUT SET

STATE OF TEXAS
INST. NO. 20130050124G
O.P.R.R.C.T.

L=17.43'
R=1426.20'
D=0°42'01"
CH=S37°09'47"W
CL=17.43'

1/2" IRS "WIER" FROM WHICH A TXDOT MON W/ALUM CAP FOUND BEARS S58°22'E, 1.4'

POINT FROM WHICH
5/8" IRF "1890" BEARS
S26°48'04"E, 0.33'

LOT 6, BLOCK B
HORIZON RIDGE ADDITION
CAB. F, SL. 156
P.R.R.C.T.

1/2" IRF "RSCI"

N: 7012044.53
E: 2592076.28

N45°47'16"W
42.00'

1/2" IRF "RSCI"(CM)

10' UTILITY EASEMENT
CAB. E, SL. 117
P.R.R.C.T.

LOT 3, BLOCK A
1.198 ACRES
(52,186 SQ. FT.)

PROPOSED
24' FIRE LANE, PUBLIC ACCESS, AND UTILITY EASEMENT BY THIS PLAT

PROPOSED 10' UTILITY EASEMENT BY THIS PLAT

C3 C10

RIGHT-OF-WAY EASEMENT
VOL. 1772, PG. 124
D.R.R.C.T.

HATCHED PORTION ABANDONED BY THIS PLAT

L10 L11 C2 C11

PROPOSED DRAINAGE EASEMENT BY THIS PLAT

ROCKWALL PARKWAY
(VARIABLE WIDTH RIGHT-OF-WAY)
CAB. E, SL. 149
P.R.R.C.T.

49.2'
30.0'

L9 L8 18.78' C12 L17 L5 L6 L4 L3 L2 L1 C1 C13

L=201.43'
R=1426.20'
D=8°05'32"
CH=S32°46'00"W
CL=201.27'

R.O.W. DEDICATION
CAB. G, SL. 213
P.R.R.C.T.

LOT 2, BLOCK A
M.R.P. ADDITION
CAB. D, SL. 327
P.R.R.C.T.

N52°44'53"W 210.00'

YV ROCKWALL REALTY HOLDINGS, LLC
VOL. 6372, PG. 319
D.R.R.C.T.

PROPOSED DRAINAGE & UTILITY EASEMENT BY THIS PLAT

POINT FROM WHICH
1/2" IRF "RSCI" BEARS
S41°09'56"E, 1.60'

R.O.W. DEDICATION
CAB. D, SL. 327
P.R.R.C.T.

60.0'
34.5'
30.0'

20' DRAINAGE EASEMENT
DOC. No. _____
O.P.R.R.C.T.

SCALE: 1"= 30'
0 30 60 90

EASEMENT LINE TABLE		
LINE	BEARING	DIST
L1	N52°44'53"W	13.76'
L2	N26°20'04"E	9.78'
L3	N01°00'00"W	3.32'
L4	N46°00'00"W	30.97'
L5	N44°00'00"E	20.00'
L6	S46°00'00"E	39.25'
L7	S01°00'00"E	5.36'
L8	N44°00'00"E	44.00'
L9	N46°00'00"W	99.00'
L10	N44°00'00"E	44.00'
L11	S46°00'00"E	99.00'
L12	N45°49'57"W	113.49'
L13	N45°47'15"W	8.00'
L14	N44°12'45"E	24.00'
L15	S45°47'15"E	8.00'
L16	S45°49'57"E	113.49'
L17	S59°53'11"E	5.28'
L18	N52°44'53"W	41.32'

EASEMENT CURVE TABLE					
CURVE	ARC	RADIUS	DELTA	BEARING	DIST.
C1	27.15'	1426.20'	1°05'26"	S29°15'57"W	27.15'
C2	137.33'	1480.70'	5°18'50"	N31°41'37"E	137.28'
C3	34.99'	25.00'	80°11'00"	N05°44'27"W	32.20'
C4	6.78'	25.00'	15°32'57"	N53°36'26"W	6.76'
C5	13.07'	49.00'	15°17'12"	N53°44'18"W	13.03'
C6	0.26'	49.00'	0°18'27"	N45°56'28"W	0.26'
C7	0.13'	25.00'	0°18'27"	S45°56'28"E	0.13'
C8	6.67'	25.00'	15°17'12"	S53°44'18"E	6.65'
C9	13.30'	49.00'	15°32'57"	S53°36'26"E	13.26'
C10	68.57'	49.00'	80°11'00"	S05°44'27"E	63.11'
C11	82.29'	1456.70'	3°14'12"	S32°43'57"W	82.28'
C12	39.71'	25.00'	91°00'02"	S14°23'10"E	35.66'
C13	7.53'	1426.20'	0°18'09"	S29°57'45"W	7.53'

** L E G E N D **

CM	CONTROLLING MONUMENT
IRF	IRON ROD FOUND
IRS	IRON ROD SET
WIER	YELLOW CAP STAMPED "WIER & ASSOC INC"
	EASEMENT AREA ABANDONED BY THIS PLAT

** N O T E S **

1. ACCORDING TO SURVEYOR'S INTERPRETATION OF INFORMATION SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) "FLOOD INSURANCE RATE MAP" (FIRM), MAP NO. 48397C0040L, MAP REVISED SEPTEMBER 26, 2008, ALL OF THE SUBJECT TRACT LIES WITHIN ZONE "X", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" ZONE AS DEFINED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, FEDERAL INSURANCE ADMINISTRATION, OR THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

2. THE ABOVE REFERENCED "FIRM" MAP IS FOR USE IN ADMINISTERING THE "NFIP"; IT DOES NOT NECESSARILY SHOW ALL AREAS POTENTIALLY SUBJECT TO FLOODING, PARTICULARLY AREAS WHICH COULD BE FLOODED BY SEVERE, CONCENTRATED RAINFALL COUPLED WITH INADEQUATE LOCAL DRAINAGE SYSTEMS. THERE MAY BE OTHER STREAMS, CREEKS, LOW AREAS, DRAINAGE SYSTEMS OR OTHER SURFACE OR SUBSURFACE CONDITIONS EXISTING ON OR NEAR THE SUBJECT PROPERTY WHICH ARE NOT STUDIED OR ADDRESSED AS PART OF THE "NFIP".

3. ALL BEARINGS AND COORDINATES SHOWN HEREON ARE CORRELATED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE 4202, NAD OF 1983, AS DERIVED BY FIELD OBSERVATIONS UTILIZING THE RTK NETWORK ADMINISTRATED BY ALLTERRA CENTRAL, INC.

4. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL DETENTION AND DRAINAGE SYSTEMS.

5. ALL 1/2" IRON RODS SET WITH A CAP STAMPED "WIER & ASSOC INC", UNLESS NOTED OTHERWISE.

6. PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING, REPAIRING, AND REPLACING ALL NON-STANDARD DECORATIVE SIGNS, POLE/POSTS, HARDWARE, LIGHTING, OR OTHER NON-STANDARD ITEMS. THE CITY OF ROCKWALL HAS NO MAINTENANCE, LIABILITY, OR OTHER RESPONSIBILITY RELATED TO THESE ITEMS.

GENERAL NOTES:

1. 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.

FINAL PLAT
LOT 3, BLOCK A
ALLEN ANDERSON ADDITION

52,186 SQUARE FEET / 1.198 ACRES
BEING A REPLAT OF LOT 2, BLOCK A, ALLEN ANDERSON ADDITION
BEING 1.198 ACRES OF LAND
SITUATED IN THE EDWARD TEAL SURVEY, ABSTRACT No. 207
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

CASE No. P2022-007

OWNER / DEVELOPER
FROST BANK
3838 ROGERS ROAD
SAN ANTONIO, TEXAS 78251
CONTACT: ROSS WOOD
PH: (210) 220-5842
EMAIL: ROSS.WOOD@FROSTBANK.COM

ENGINEER / SURVEYOR
WIER & ASSOCIATES, INC.
2201 E. LAMAR BLVD., SUITE 200E
ARLINGTON, TEXAS 76006
CONTACT: PRIYA ACHARYA, P.E.
PH: (817) 467-7700
EMAIL: PRIYAA@WIERASSOCIATES.COM

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com
Texas Board of Professional Land Surveying Registration No. 10033900

SHEET 1 OF 2

DATE: 3/7/2022
W.A. No. 21089

OWNER'S CERTIFICATION

STATE OF TEXAS
COUNTY OF ROCKWALL

WHEREAS FROST BANK, BEING THE OWNER OF A TRACT OF LAND IN THE COUNTY OF ROCKWALL, STATE OF TEXAS, SAID TRACT BEING DESCRIBED AS FOLLOWS:

BEING A TRACT OF LAND LOCATED IN THE EDWARD TEAL SURVEY, ABSTRACT NUMBER 207, ROCKWALL COUNTY, TEXAS, AND BEING A PORTION OF LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN CABINET G, SLIDE 213, (P.R.R.C.T.), AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC" IN THE SOUTHWEST RIGHT-OF-WAY LINE OF HORIZON ROAD (F.M. HWY. 3097) (A VARIABLE WIDTH RIGHT-OF-WAY), SAID IRON ROD BEING THE NORTH CORNER OF SAID LOT 2 AND THE EAST CORNER OF LOT 1, BLOCK A OF SAID ALLEN ANDERSON ADDITION;

THENCE S 45°47'20" E, ALONG THE NORTHEAST LINE OF SAID LOT 2 AND THE SOUTHWEST RIGHT-OF-WAY LINE OF SAID HORIZON ROAD, 191.42 FEET TO A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC" AT THE NORTH END OF A RIGHT-OF-WAY CORNER CLIP AT THE INTERSECTION OF THE SOUTHWEST RIGHT-OF-WAY LINE OF SAID HORIZON ROAD WITH THE NORTHWEST RIGHT-OF-WAY LINE OF ROCKWALL PARKWAY (A VARIABLE WIDTH RIGHT-OF-WAY), BEING THE NORTH CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO THE STATE OF TEXAS RECORDED IN INSTRUMENT NUMBER 201300501246, OFFICIAL PUBLIC RECORDS, ROCKWALL COUNTY, TEXAS (O.P.R.R.C.T.);

THENCE S 03°37'10" E, ALONG SAID CORNER CLIP AND THE WEST LINE OF SAID STATE OF TEXAS TRACT, 25.77 FEET TO A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC", FROM WHICH A TEXAS DEPARTMENT OF TRANSPORTATION MONUMENT FOUND WITH AN ALUMINUM CAP BEARS S 58°22' E, 1.4 FEET, SAID IRON ROD BEING THE SOUTH END OF SAID CORNER CLIP AND THE SOUTH CORNER OF SAID STATE OF TEXAS TRACT, BEING THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT;

THENCE SOUTHWESTERLY, AN ARC LENGTH OF 201.43 FEET ALONG THE SOUTHEAST LINE OF SAID LOT 2, THE NORTHWEST RIGHT-OF-WAY LINE OF SAID ROCKWALL PARKWAY, AND SAID CURVE TO THE LEFT, HAVING A RADIUS OF 1426.20 FEET, A DELTA ANGLE OF 08°05'32", AND A CHORD BEARING OF S 32°46'00" W, 201.27 FEET TO A POINT, FROM WHICH 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI" BEARS S 41°09'56" E, 1.60 FEET, SAID POINT BEING THE SOUTH CORNER OF SAID LOT 2 AND IN THE NORTHEAST LINE OF LOT 2, BLOCK A, M.R.P. ADDITION, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN CABINET D, SLIDE 327, P.R.R.C.T.;

THENCE N 52°44'53" W, DEPARTING THE NORTHWEST RIGHT-OF-WAY LINE OF SAID ROCKWALL PARKWAY, ALONG THE SOUTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION AND THE NORTHEAST LINE OF SAID LOT 2, BLOCK A, M.R.P. ADDITION, 210.00 FEET TO A 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI";

THENCE N 45°47'16" W, CONTINUING ALONG THE SOUTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION AND THE NORTHEAST LINE OF SAID LOT 2, BLOCK A, M.R.P. ADDITION, 42.00 FEET TO A 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI", SAID IRON ROD BEING THE WEST CORNER OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AND THE SOUTH CORNER OF SAID LOT 1;

THENCE N 44°12'44" E, ALONG THE NORTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AND THE SOUTHEAST LINE OF SAID LOT 1, A DISTANCE OF 240.00 FEET TO THE PLACE OF BEGINNING AND CONTAINING 1.198 ACRES (52,186 SQUARE FEET) OF LAND, MORE OR LESS.

SURVEYOR'S STATEMENT

THAT I, AARON L. STRINGFELLOW, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND, AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION.

SURVEYED ON THE GROUND
NOVEMBER 29, 2021

_____
AARON L. STRINGFELLOW
REGISTERED PUBLIC SURVEYOR
STATE OF TEXAS NO. 6373
EMAIL: AARONLS@WIERASSOCIATES.COM

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS
COUNTY OF ROCKWALL

I THE UNDERSIGNED OWNER OF THE LAND SHOWN ON THIS PLAT, AND DESIGNATED HEREIN AS LOT 2R, BLOCK A, ALLEN ANDERSON ADDITION 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. I FURTHER CERTIFY THAT ALL OTHER PARTIES WHO HAVE A MORTGAGE OR LIEN INTEREST IN LOT 2R, BLOCK A, ALLEN ANDERSON ADDITION HAVE BEEN NOTIFIED AND SIGNED THIS PLAT.

I UNDERSTAND AND DO HEREBY RESERVE THE EASEMENT STRIPS SHOWN ON THIS PLAT FOR THE PURPOSES STATED AND FOR THE MUTUAL USE AND ACCOMMODATION OF ALL UTILITIES DESIRING TO USE OR USING SAME. I 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 ENGINEER SHALL BEAR TOTAL RESPONSIBILITY FOR STORM DRAIN IMPROVEMENTS.

5. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE NECESSARY FACILITIES TO PROVIDE DRAINAGE PATTERNS AND DRAINAGE CONTROLS SUCH THAT PROPERTIES WITHIN THE DRAINAGE AREA ARE NOT ADVERSELY AFFECTED BY STORM DRAINAGE FROM THE DEVELOPMENT.

6. NO HOUSE DWELLING UNIT, OR OTHER STRUCTURE SHALL BE CONSTRUCTED ON ANY LOT IN THIS ADDITION BY THE OWNER OR ANY OTHER PERSON UNTIL THE DEVELOPER AND/OR OWNER HAS COMPLIED WITH ALL REQUIREMENTS OF THE SUBDIVISION REGULATIONS OF THE CITY OF ROCKWALL REGARDING IMPROVEMENTS WITH RESPECT TO THE ENTIRE BLOCK ON THE STREET OR STREETS ON WHICH PROPERTY ABUTS, INCLUDING THE ACTUAL INSTALLATION OF STREETS WITH THE REQUIRED BASE AND PAVING, CURB AND GUTTER, WATER AND SEWER, DRAINAGE STRUCTURES, STORM 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.

I 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; I, MY SUCCESSORS AND ASSIGNS HEREBY WAIVE ANY CLAIM, DAMAGE, OR CAUSE OF ACTION THAT I MAY HAVE AS A RESULT OF THE DEDICATION OF EXACTIONS MADE HEREIN.

WITNESS OUR HANDS THIS THE ___ DAY OF _____, 2022:

FOR: FROST BANK

_____
OWNER

STATE OF _____
COUNTY OF _____

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED _____ OF FROST BANK, 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 ____ DAY OF _____, 2022.

_____
NOTARY PUBLIC IN AND FOR THE STATE OF _____

_____
PRINTED NAME

RECOMMENDED FOR FINAL APPROVAL

_____ _____
PLANNING AND ZONING COMMISSION, CHAIRMAN DATE

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 ___ DAY OF _____, 2022.

THIS APPROVAL SHALL BE INVALID UNLESS THE APPROVED PLAT FOR SUCH ADDITION IS RECORDED IN THE OFFICE OF THE COUNTY CLERK OF ROCKWALL COUNTY, TEXAS WITHIN ONE HUNDRED EIGHTY (180) DAYS FROM SAID DATE OF FINAL APPROVAL.

WITNESS OUR HANDS, THIS ___ DAY OF _____, 2022.

_____ _____ _____
MAYOR, CITY OF ROCKWALL CITY SECRETARY CITY ENGINEER

PRELIMINARY
FOR REVIEW PURPOSES ONLY
THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.

FINAL PLAT
LOT 3, BLOCK A
ALLEN ANDERSON ADDITION

52,186 SQUARE FEET / 1.198 ACRES
BEING A REPLAT OF LOT 2, BLOCK A, ALLEN ANDERSON ADDITION
BEING 1.198 ACRES OF LAND
SITUATED IN THE EDWARD TEAL SURVEY, ABSTRACT No. 207
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

CASE No. P2022-007

OWNER / DEVELOPER
FROST BANK
3838 ROGERS ROAD
SAN ANTONIO, TEXAS 78251
CONTACT: ROSS WOOD
PH: (210) 220-5842
EMAIL: ROSS.WOOD@FROSTBANK.COM

ENGINEER / SURVEYOR
WIER & ASSOCIATES, INC.
2201 E. LAMAR BLVD., SUITE 200E
ARLINGTON, TEXAS 76006
CONTACT: PRIYA ACHARYA, P.E.
PH: (817) 467-7700
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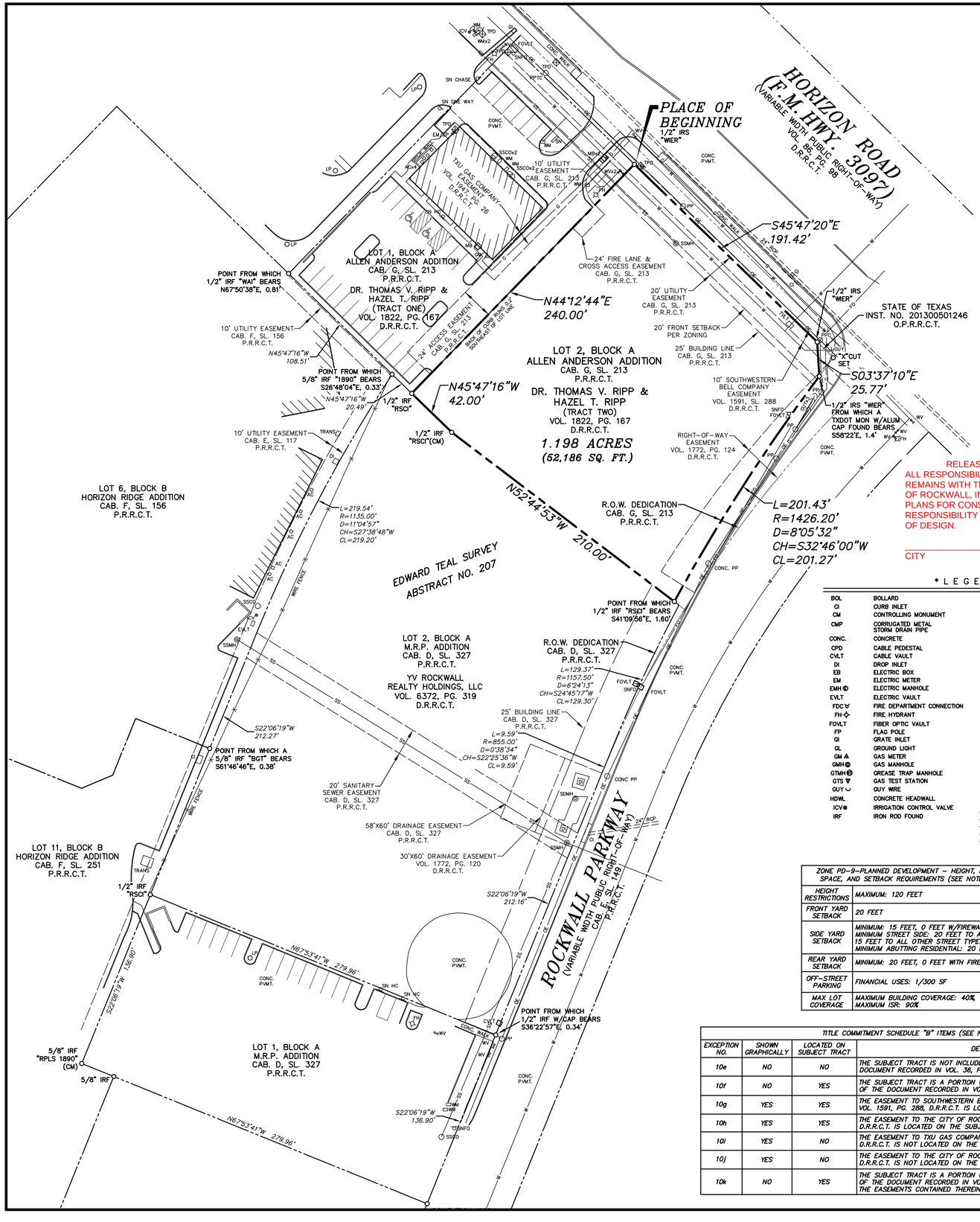
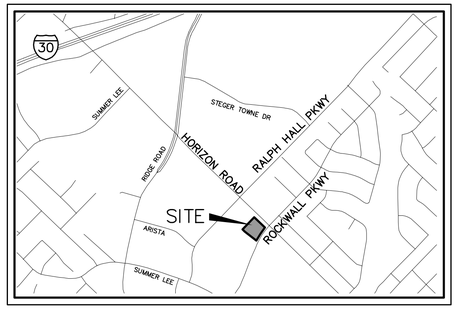
PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com
Texas Board of Professional Land Surveying Registration No. 10033900

DATE: 3/7/2022
W.A. No. 21089





VICINITY MAP
NOT TO SCALE

* L E G E N D *

BOL	BOLLARD	IRS	IRON ROD SET
CI	CURB INLET	LP☼	LIGHT POLE
CM	CONTROLLING MONUMENT	MB	MAILBOX
CMP	CORRUGATED METAL STORM DRAIN PIPE	PP	POWER POLE
		PPC	POWER POLE W/CONDUIT
CONC.	CONCRETE	PPLP	POWER POLE W/LIGHT POLE
CPD	CABLE PEDESTAL	PPT	POWER POLE W/TRANSFORMER
CVLT	CABLE VAULT	RCP	CONCRETE STORM DRAIN PIPE
DI	DROP INLET	SDMH	STORM DRAIN MANHOLE
EB	ELECTRIC BOX	SHD	SPRINKLER HEAD
EM	ELECTRIC METER	SN ⊖	SIGN
EMH Ⓔ	ELECTRIC MANHOLE	SNHC ♿	HANDICAP PARKING SIGN
EVLT	ELECTRIC VAULT	SNFO	UNDERGROUND FIBER OPTIC MARKER
FDC	FIRE DEPARTMENT CONNECTION	SNG	UNDERGROUND GAS MARKER
FH	FIRE HYDRANT	SSMH Ⓢ	SANITARY SEWER MANHOLE
FOVLT	FIBER OPTIC VAULT	SSCO ○	SANITARY SEWER CLEANOUT
FP	FLAG POLE	TPD ⊠	TELEPHONE PEDESTAL
GI	GRATE INLET	TRANS	TRANSFORMER PAD
GL	GROUND LIGHT	TSB	TRAFFIC SIGNAL BOX
GM ⧋	GAS METER	TSP	TRAFFIC SIGNAL POLE
GMH Ⓖ	GAS MANHOLE	TVLT	TELEPHONE VAULT
GTMH Ⓖ	GREASE TRAP MANHOLE	TXDOT	TEXAS DEPT. OF TRANSPORTATION
GTS ▽	GAS TEST STATION	WM ▭	WATER METER
GUY ◡	GUY WIRE	WMH Ⓦ	WATER MANHOLE
HDWL	CONCRETE HEADWALL	WV ⋈	WATER VALVE
ICV ⊛	IRRIGATION CONTROL VALVE	WVLT	WATER VAULT
IRF	IRON ROD FOUND	OE	OVERHEAD ELECTRIC LINE
		W	UNDERGROUND WATER LINE
		SS	UNDERGROUND SANITARY SEWER LINE
		FO	UNDERGROUND FIBER OPTIC LINE
		G	UNDERGROUND GAS LINE

ZONE PD-9-PLANNED DEVELOPMENT - HEIGHT, FLOOR SPACE, AND SETBACK REQUIREMENTS (SEE NOTE 11)	
HEIGHT RESTRICTIONS	MAXIMUM: 120 FEET
FRONT YARD SETBACK	20 FEET
SIDE YARD SETBACK	MINIMUM: 15 FEET, 0 FEET W/FIREWALL; MINIMUM STREET SIDE: 20 FEET TO ARTERIAL, 15 FEET TO ALL OTHER STREET TYPES; MINIMUM ABUTTING RESIDENTIAL: 20 FEET.
REAR YARD SETBACK	MINIMUM: 20 FEET, 0 FEET WITH FIREWALL
OFF-STREET PARKING	FINANCIAL USES: 1/300 SF
MAX LOT COVERAGE	MAXIMUM BUILDING COVERAGE: 40% MAXIMUM ISR: 90%

TITLE COMMITMENT SCHEDULE "B" ITEMS (SEE NOTE 5)

EXCEPTION NO.	SHOWN GRAPHICALLY	LOCATED ON SUBJECT TRACT	DESCRIPTION
10e	NO	NO	THE SUBJECT TRACT IS NOT INCLUDED IN THE LANDS DESCRIBED IN THE DOCUMENT RECORDED IN VOL. 36, PG. 233, D.R.R.C.T.
10f	NO	YES	THE SUBJECT TRACT IS A PORTION OF THE LANDS DESCRIBED IN EXHIBIT "A" OF THE DOCUMENT RECORDED IN VOL. 75, PG. 201, D.R.R.C.T.
10g	YES	YES	THE EASEMENT TO SOUTHWESTERN BELL TELEPHONE COMPANY RECORDED IN VOL. 1591, PG. 288, D.R.R.C.T. IS LOCATED ON THE SUBJECT TRACT.
10h	YES	YES	THE EASEMENT TO THE CITY OF ROCKWALL RECORDED IN VOL. 1772, PG. 124, D.R.R.C.T. IS LOCATED ON THE SUBJECT TRACT.
10i	YES	NO	THE EASEMENT TO TXU GAS COMPANY RECORDED IN VOL. 1947, PG. 26, D.R.R.C.T. IS NOT LOCATED ON THE SUBJECT TRACT, BUT IS SHOWN HEREON.
10j	YES	NO	THE EASEMENT TO THE CITY OF ROCKWALL RECORDED IN VOL. 1772, PG. 120, D.R.R.C.T. IS NOT LOCATED ON THE SUBJECT TRACT, BUT IS SHOWN HEREON.
10k	NO	YES	THE SUBJECT TRACT IS A PORTION OF THE LANDS DESCRIBED IN EXHIBIT "A" OF THE DOCUMENT RECORDED IN VOL. 5383, PG. 109, D.R.R.C.T., HOWEVER THE EASEMENTS CONTAINED THEREIN ARE NOT PLOTTABLE.

* F I E L D N O T E S *

TRACT 1

BEING A TRACT OF LAND LOCATED IN THE EDWARD TEAL SURVEY, ABSTRACT NUMBER 207, ROCKWALL COUNTY, TEXAS, AND BEING A PORTION OF LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN CABINET G, SLIDE 213, (P.R.R.C.T.), AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC" IN THE SOUTHWEST RIGHT-OF-WAY LINE OF HORIZON ROAD (F.M. HWY. 3097) (A VARIABLE WIDTH RIGHT-OF-WAY), SAID IRON ROD BEING THE NORTH CORNER OF SAID LOT 2 AND THE EAST CORNER OF LOT 1, BLOCK A OF SAID ALLEN ANDERSON ADDITION;

THENCE S 45°47'20" E, ALONG THE NORTHEAST LINE OF SAID LOT 2 AND THE SOUTHWEST RIGHT-OF-WAY LINE OF SAID HORIZON ROAD, 191.42 FEET TO A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC" AT THE NORTH END OF A RIGHT-OF-WAY CORNER CLIP AT THE INTERSECTION OF THE SOUTHWEST RIGHT-OF-WAY LINE OF SAID HORIZON ROAD WITH THE NORTHWEST RIGHT-OF-WAY LINE OF ROCKWALL PARKWAY (A VARIABLE WIDTH RIGHT-OF-WAY), BEING THE NORTH CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO THE STATE OF TEXAS RECORDED IN INSTRUMENT NUMBER 20130050124G, OFFICIAL PUBLIC RECORDS, ROCKWALL COUNTY, TEXAS (O.P.R.R.C.T.);

THENCE S 03°37'10" E, ALONG SAID CORNER CLIP AND THE WEST LINE OF SAID STATE OF TEXAS TRACT, 25.77 FEET TO A 1/2" IRON ROD SET WITH A CAP STAMPED "WIER & ASSOC INC", FROM WHICH A TEXAS DEPARTMENT OF TRANSPORTATION MONUMENT FOUND WITH AN ALUMINUM CAP BEARS S 58°22' E, 1.4 FEET, SAID IRON ROD BEING THE SOUTH END OF SAID CORNER CLIP AND THE SOUTH CORNER OF SAID STATE OF TEXAS TRACT, BEING THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT;

THENCE SOUTHWESTERLY, AN ARC LENGTH OF 201.43 FEET ALONG THE SOUTHEAST LINE OF SAID LOT 2, THE NORTHWEST RIGHT-OF-WAY LINE OF SAID ROCKWALL PARKWAY, AND SAID CURVE TO THE LEFT, HAVING A RADIUS OF 1426.20 FEET, A DELTA ANGLE OF 08°05'32", AND A CHORD BEARING OF S 32°46'00" W, 201.27 FEET TO A POINT, FROM WHICH 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI" BEARS S 41°09'56" E, 1.60 FEET, SAID POINT BEING THE SOUTH CORNER OF SAID LOT 2 AND IN THE NORTHEAST LINE OF LOT 2, BLOCK A, M.R.P. ADDITION, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN CABINET D, SLIDE 327, P.R.R.C.T.;

THENCE N 52°44'53" W, DEPARTING THE NORTHWEST RIGHT-OF-WAY LINE OF SAID ROCKWALL PARKWAY, ALONG THE SOUTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION AND THE NORTHEAST LINE OF SAID LOT 2, BLOCK A, M.R.P. ADDITION, 210.00 FEET TO A 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI";

THENCE N 45°47'16" W, CONTINUING ALONG THE SOUTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION AND THE NORTHEAST LINE OF SAID LOT 2, BLOCK A, M.R.P. ADDITION, 42.00 FEET TO A 1/2" IRON ROD FOUND WITH A CAP STAMPED "RSCI", SAID IRON ROD BEING THE WEST CORNER OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AND THE SOUTH CORNER OF SAID LOT 1;

THENCE N 44°12'44" E, ALONG THE NORTHWEST LINE OF SAID LOT 2, BLOCK A, ALLEN ANDERSON ADDITION, AND THE SOUTHEAST LINE OF SAID LOT 1, A DISTANCE OF 240.00 FEET TO THE PLACE OF BEGINNING AND CONTAINING 1.198 ACRES (52,186 SQUARE FEET) OF LAND, MORE OR LESS.

TRACT 2

NON-EXCLUSIVE EASEMENT ESTATE CREATED IN RECIPROCAL EASEMENT AGREEMENT, DATED: FEBRUARY 21, 2008, BY AND BETWEEN THOMAS V. RIPP AND HAZEL T. RIPP AND ARMSTRONG RALPH HALL, LP, RECORDED IN VOLUME 5383, PAGE 109, REAL PROPERTY RECORDS, ROCKWALL COUNTY, TEXAS.

TRACT 3

EASEMENT ESTATE CREATED IN CROSS ACCESS EASEMENT BY AND BETWEEN THOMAS V. RIPP AND HAZEL T. RIPP, A MARRIED COUPLE, AND FROST BANK, A TEXAS STATE BANK.

* N O T E S *

1. ACCORDING TO SURVEYOR'S INTERPRETATION OF INFORMATION SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) "FLOOD INSURANCE RATE MAP" (FIRM), MAP No. 48397C0040L, MAP REVISED SEPTEMBER 26, 2008, ALL OF THE SUBJECT TRACT LIES WITHIN ZONE "X", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" ZONE AS DEFINED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, FEDERAL INSURANCE ADMINISTRATION, OR THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

2. THE ABOVE REFERENCED "FIRM" MAP IS FOR USE IN ADMINISTERING THE "NFIP". IT DOES NOT NECESSARILY SHOW ALL AREAS POTENTIALLY SUBJECT TO FLOODING, PARTICULARLY AREAS WHICH COULD BE FLOODED BY SEVERE, CONCENTRATED RAINFALL COUPLED WITH INADEQUATE LOCAL DRAINAGE SYSTEMS. THERE MAY BE OTHER STREAMS, CREEKS, LOW AREAS, DRAINAGE SYSTEMS OR OTHER SURFACE OR SUBSURFACE CONDITIONS EXISTING ON OR NEAR THE SUBJECT PROPERTY WHICH ARE NOT STUDIED OR ADDRESSED AS PART OF THE "NFIP".

THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION MARKED BY UTILITY LOCATORS, VISIBLE IMPROVEMENTS AND/OR EXISTING DRAWINGS. THIS SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THIS SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HEREON ARE IN THE EXACT LOCATION INDICATED. THIS SURVEYOR HAS NOT PHYSICALLY LOCATED OR DESIGNATED THE UNDERGROUND UTILITIES.

4. ALL BEARINGS SHOWN HEREON ARE CORRELATED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE 4202, NAD OF 1983, AS DERIVED BY FIELD OBSERVATIONS UTILIZING THE RTK NETWORK ADMINISTRATED BY ALLTERRA CENTRAL, INC.

5. THIS SURVEY WAS PREPARED WITH BENEFIT OF A CURRENT COPY OF COMMITMENT FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE INSURANCE COMPANY, GF No. CTCP87-8000872101495, EFFECTIVE DATE OCTOBER 31, 2021, ISSUED DATE DECEMBER 9, 2021.

6. ALL 1/2" IRON RODS SET WITH A CAP STAMPED "WIER & ASSOC INC", UNLESS NOTED OTHERWISE.

7. THE SUBJECT TRACT CONTAINS ZERO STRIPED PARKING SPACES.

8. NO BUILDINGS WERE OBSERVED ON THE SUBJECT TRACT.

9. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

10. THE SUBJECT TRACT DOES NOT HAVE AN ASSIGNED STREET ADDRESS.

11. ACCORDING TO THE REPORT PREPARED BY DRACO INTERNATIONAL, PROJECT NO. 20214283-01, DATED NOVEMBER 19, 2021, THE SUBJECT TRACT IS ZONED "PD-9-PLANNED DEVELOPMENT". SEE ZONING TABLE.

12. THE SUBJECT TRACT BOUNDARY DIRECTLY ABUTS THE RIGHTS-OF-WAY OF HORIZON ROAD (FM 3097) AND ROCKWALL PARKWAY WITH NO APPARENT GAPS, GORES, STRIPS, OR OVERLAPS, HOWEVER THERE ARE NO CURB CUTS IN THE PAVEMENTS OF EITHER ROAD TO PROVIDE PHYSICAL ACCESS TO THE SITE.

* S U R V E Y O R ' S S T A T E M E N T *

TO THOMAS V. RIPP, HAZEL T. RIPP, FROST BANK, A TEXAS STATE BANK AND ITS SUCCESSORS AND ASSIGNS, CHICAGO TITLE OF TEXAS, LLC, AND CHICAGO TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH LAWS REGULATING SURVEYING IN THE STATE OF TEXAS, AND WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 7(b)(1), 8, 9, 11, 13, 14, & 16 OF TABLE A THEREOF.

THE FIELDWORK WAS COMPLETE ON NOVEMBER 9, 2021.

DATE OF PLAT OR MAP: 12/10/2021

AARON L. STRINGFELLOW, R.P.L.S.
STATE OF TEXAS No. 6373
E-MAIL: AaronLS@WierAssociates.com

ALTA/NSPS
LAND TITLE SURVEY

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 WierAssociates.com
Texas Board of Professional Land Surveying Registration No. 10033900

REVISIONS	DATE	BY
TITLE OBJECTIONS	12/09/21	ALS
CORRECTED TRACT 2 RECORDING INFO	12/10/21	ALS

ALTA/NSPS LAND TITLE SURVEY

LOT 2, BLOCK A, ALLEN ANDERSON ADDITION

LOCATED IN THE EDWARD TEAL SURVEY, ABSTRACT No. 207
ROCKWALL, ROCKWALL COUNTY, TEXAS

LAST SHEET EDIT
DATE 12/10/2021
WA# 21089

SHEET NO.
1 OF 1

PRINTED: 12/10/2021 STB FILE: WIER-SURVEY.STB LAST SAVED: 12/10/2021 10:05 AM SAVED BY: AARONLS FILE: ALTA-SURVEY-21089-REV2.DWG

EXISTING TOPOGRAPHIC LEGEND

	ASPHALT PAVEMENT
BOL/GP	BOLLARD/GUARD POST
B/C	DIMENSION TO BACK OF CURB
CATV	CABLE TV
CM	CONTROL MONUMENT
CONC.	CONCRETE
EB	ELEC BOX (GROUND)
EMH	ELEC MANHOLE
EM	ELEC METER
FH	FIRE HYDRANT
SNFO	FIBER OPTIC CABLE
GM	GAS METER
GMH	GAS MANHOLE
GTS	GAS TEST STATION
GUY	GUY WIRE
HDWL.	CONCRETE HEADWALL
ICV	IRRIGATION CONTROL VALVE
IRF	IRON ROD FOUND
IRS	IRON ROD SET
LP	LIGHT POLE
PP	POWER POLE
PPLP	POWER POLE W/LIGHT
SDMH	STORM DRAIN MANHOLE
SHD	SPRINKLER HEAD
SN	SIGN
SSMH	SANITARY SEWER MANHOLE
SSCO	SANITARY SEWER CLEANOUT
SWBT	SOUTH WESTERN BELL TELEPHONE
TMH	TELEPHONE MANHOLE
TPD	TELEPHONE PEDESTAL
TSG	TELEPHONE SWITCH GEAR
TSB	TRAFFIC SIGNAL BOX
TSP	TRAFFIC SIGNAL POLE
TSC	TRAFFIC SIGNAL CONTROLLER
	TRANSFORMER PAD
WM	WATER METER
WMH	WATER MANHOLE
WV	WATER VALVE
OE	OVERHEAD ELECTRIC LINE
UE	UNDERGROUND ELECTRIC LINE
W	WATER LINE
SS	SANITARY SEWER LINE
FO	FIBER OPTIC LINE
UT	UNDERGROUND TELEPHONE
OT	OVERHEAD TELEPHONE
G	UNDERGROUND GAS
24" RCP	EXISTING CONCRETE STORM DRAIN LINE
24" CMP	EXISTING CORREGATED METAL STORM DRAIN LINE
	EXISTING FLOWLINE
BARBED WIRE FENCE	BARBED WIRE FENCE
CHAIN LINK FENCE	CHAIN LINK FENCE
WOOD FENCE	WOOD FENCE
	GUARD RAIL / BARRICADE
	EXISTING TREE LINE
	EXISTING TREE

PAVING PLAN LEGEND

SEE SHEET C301 AND C302 FOR PAVEMENT INFORMATION

	HANDICAP RAMP DETECTIBLE WARNING
	PROPOSED EDGE OF PAVEMENT
	FUTURE EDGE OF PAVEMENT
L2	LINE IDENTIFIED IN LINE TABLE
C2	CURVE IDENTIFIED IN CURVE TABLE
B/B	BACK OF CURB TO BACK OF CURB
	PROPOSED CHAIN LINK FENCE
	PROPOSED BARBED WIRE FENCE
	PROPOSED WOOD / STOCKADE FENCE
	PROPOSED BARRICADE / GUARD RAIL
	PROPOSED RETAINING WALL
	HANDICAP PARKING
	INDICATES CUT OR FILL SLOPE
	PROPOSED SIGN & POST
	INDICATES PROPOSED RECESSED CURB INLET
	INDICATES PROPOSED STANDARD CURB INLET

DRAINAGE PLAN LEGEND

A-1 / 2.00	DRAINAGE AREA DESIGNATION DRAINAGE AREA (ACRES)
	WATERSHED LIMITS
	MAJOR DRAINAGE AREA DIVIDE
	MAJOR DRAINAGE AREA SUB-DIVIDE
	ZONING BOUNDARY
	FLOW DIRECTION ARROW
L2	LINE IDENTIFIED IN LINE TABLE
C2	CURVE IDENTIFIED IN CURVE TABLE
	INDICATES PROPOSED RECESSED CURB INLET
	INDICATES PROPOSED STANDARD CURB INLET
	INDICATES PROPOSED DROP INLET
	INDICATES PROPOSED JUNCTION BOX
27" RCP	PROPOSED STORM DRAIN
27" RCP	FUTURE STORM DRAIN
	PROPOSED SWALE

WATER & SANITARY SEWER PLAN LEGEND

24" W	PROPOSED 16" OR LARGER WATER MAIN
8" W	PROPOSED 12" OR SMALLER WATER MAIN
24" W	FUTURE 16" OR LARGER WATER MAIN
8" W	FUTURE 12" OR SMALLER WATER MAIN
	PROPOSED GATE VALVE
	PROPOSED REDUCER
	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT
	PROPOSED AIR RELEASE VALVE OR BLOW-OFF VALVE
24" SS	PROPOSED 16" OR LARGER SANITARY SEWER
8" SS	PROPOSED 12" OR SMALLER SANITARY SEWER
24" SS	FUTURE 16" OR LARGER SANITARY SEWER
8" SS	FUTURE 12" OR SMALLER SANITARY SEWER
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER CLEANOUT

GRADING PLAN LEGEND

537	EXISTING CONTOUR
537	PROPOSED CONTOUR
T/C = 999.99	PROPOSED SPOT ELEV.
	PROPOSED SWALE & DIRECTION OF FLOW
	PROPOSED GRADE BREAK
T/C	TOP OF CURB
T/P	TOP OF PAVEMENT
T/W	TOP OF RETAINING WALL
B/W	BOTTOM OF RETAINING WALL
FG	FINISHED GRADE
FF	FINISHED FLOOR ELEVATION

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

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

CITY _____ DATE _____

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

TOPOGRAPHIC LEGEND

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/21/2022
WA# 21089

SHEET NO. C100

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 2/21/2022 8:50 AM SAVED BY: ALEXH FILE: C100 TOPOGRAPHIC LEGEND.DWG

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

GENERAL NOTES FOR PRIVATE IMPROVEMENTS ONLY.
REFER TO CITY STANDARDS, DETAILS AND SPECIFICATIONS FOR PUBLIC AND FIRE LANE IMPROVEMENTS.

NOTE:
USE CITY OF ROCKWALL & NCTCOG STANDARDS, UNLESS PRIVATE GENERAL NOTES ARE MORE RESTRICTIVE

PRIVATE PAVEMENT & JOINT SEALING NOTES

1. PAVEMENT MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE LATEST EDITION "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" PREPARED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS. ALL CONCRETE FOR PAVEMENT SHALL BE CLASS "C" AND HAVE A MINIMUM 3,600 PSI (6.5 SACKS PER CUBIC YARD) COMPRESSIVE STRENGTH AT 28 DAYS WITH 4 TO 6 PERCENT AIR ENTRAINMENT UNLESS OTHERWISE NOTED. SLIP FORMED CONCRETE SHALL HAVE A MAXIMUM SLUMP OF THREE INCHES. HAND-PLACED CONCRETE SHALL HAVE A MAXIMUM FIVE-INCH SLUMP. ALL REINFORCEMENT SHALL BE CHAIRED.

2. THE JOINTING SHALL CONFORM TO THE DETAILS SHOWN ON THESE PLANS. SPECIFIC SAWED CONTRACTION OR CONSTRUCTION JOINT LOCATIONS ARE NOT SHOWN. ISOLATION JOINTS SHALL BE PROVIDED AT ALL MANHOLE RIMS, LIGHT STANDARDS AND OTHER SIMILAR INSTALLATIONS. EXPANSION JOINT LOCATIONS HAVE BEEN INDICATED ON PAVING AND DIMENSIONAL CONTROL PLANS.

3. IN THE ABSENSE OF GEOTECHNICAL REPORT RECOMMENDATIONS, PROVIDE SAWED CONTRACTION JOINTS AT MAXIMUM 20-FOOT SPACING FOR EIGHT-INCH CONCRETE. MAXIMUM 15 FEET FOR SIX-INCH CONCRETE AND MAXIMUM 12-FOOT SPACING FOR FIVE-INCH CONCRETE. WHERE PAVEMENT OF DIFFERENT THICKNESSES ADJOIN, JOINT SPACING OF THINNER PAVEMENT SHALL CARRY THROUGH THE THICKER PAVEMENT. DO NOT PLACE SAWED CONTRACTION JOINT LONGITUDINALLY ALONG LOW POINT OR AT GUTTER LINE. SAWING OF JOINTS SHALL BEGIN AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING. COMPLETE ALL SAWED CONTRACTION JOINTS BEFORE UNCONTROLLED SHRINKAGE CRACKING OCCURS.

4. DO NOT PLACE SAND OR SELECT FILL BENEATH CONCRETE PAVEMENT, SIDEWALKS, DRIVE APPROACHES OR HANDICAP RAMPS FOR LEVEL UP COURSE. UTILIZE COMPACTED NATIVE MATERIALS.

5. BACKFILL ALL CURBS TO EDGE OF SUBGRADE WITH ON-SITE CLAY SOILS. COMPACT TO 95% TO 100% OF STANDARD PROCTOR DENSITY AT OR ABOVE OPTIMUM MOISTURE CONTENT.

6. CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO ENSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY TO ENSURE POSITIVE DRAINAGE. (TYP. ALL INTERSECTIONS)

7. ALL EXPANSION, CONTRACTION AND CONSTRUCTION JOINTS IN PAVED AREAS SHALL BE SEALED IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE JOINT SEALING MANUFACTURERS RECOMMENDATIONS.

8. CLEAN ALL JOINTS PRIOR TO PLACEMENT OF JOINT SEALING MATERIAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

9. PROVIDE BACKER RODS FOR JOINTS WITHOUT PRE-MOLDED JOINT MATERIAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. INSTALL CERA-ROD MANUFACTURED BY W.R. MEADOWS OR EQUAL.

10. EXPANSION AND ISOLATION JOINT MATERIAL TO BE PRE-MOLDED EXPANSION JOINT MATERIAL AS RECOMMENDED BY JOINT SEALING MANUFACTURER WITH JOINT CAP TO PROTECT SEALANT RESERVOIR.

11. TYPICALLY, JOINT SEALING MATERIAL IS PLACED BELOW SURFACE OF CONCRETE TO NEAR FULL LEVEL. CERTAIN PRODUCTS SUCH AS SOFT SEAL ARE RECOMMENDED TO BE PLACED TO FULL LEVEL. REFER TO MANUFACTURERS RECOMMENDATIONS.

12. THE CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAY APPROACHES IN CONFORMANCE WITH APPLICABLE CITY, COUNTY, AND STATE STANDARD ORDINANCES AND REQUIREMENTS. CONTRACTOR SHALL CONFIRM APPLICABLE DRIVEWAY OR ACCESS PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.

13. ALL DIMENSIONS ARE TO BACK OF CURB, UNLESS NOTED OTHERWISE.

14. ALL COORDINATES ARE TO BACK OF CURB, UNLESS NOTED OTHERWISE.

15. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

16. ALL EDGE OF PAVEMENT WITH NO CURB SHALL BE THICKENED EDGE.

PRIVATE WALKWAY, MARKING, AND SIGNAGE NOTES

1. ALL PEDESTRIAN WALKWAYS REQUIRED AS AN ACCESSIBLE ROUTE SHALL CONFORM TO THE CURRENT ADOPTED LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE "STATE OF TEXAS PROGRAM FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS", "TEXAS ACCESSIBILITY STANDARDS" (TAS) AND THE "AMERICANS WITH DISABILITIES ACT OF 1990" (ADA).

2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CITY PERMITS AND NOTIFY THE CITY PRIOR TO CONSTRUCTING PUBLIC SIDEWALKS.

3. UNLESS REQUIRED OTHERWISE BY CITY REGULATIONS OR GEOTECHNICAL REPORT RECOMMENDATIONS, ALL WALKWAYS SHALL BE CLASS "A" AND SHALL BE CONSTRUCTED OF MINIMUM 3,000 PSI CONCRETE AND A MINIMUM CEMENT CONTENT OF 5.5 SACKS PER CUBIC YARD. ALL SIDEWALKS SHALL BE REINFORCED WITH A MINIMUM OF #3 BARS AT 18-INCH CENTERS EACH WAY LOCATED AT THE CENTER OF THE THICKNESS. THE STEEL SHALL BE PLACED ON CHAIR SUPPORTS BEFORE CONCRETE PLACEMENT. IF NECESSARY, DURING CONCRETE PLACEMENT, THE STEEL SHALL BE PULLED UP TO ENSURE THE PROPER LOCATION OF REINFORCEMENT.

4. WALKWAYS SHALL BE CONSTRUCTED TO THE LINE AND GRADE INDICATED ON THE PLANS OR THE TYPICAL LOCATIONS SHOWN ON THE PAVING PLANS IN RELATION TO PROPOSED CURB. SEE PAVEMENT NOTE #1 ABOVE.

5. PRIVATE SIDEWALKS SHALL BE CONSTRUCTED ON NATIVE MATERIALS. DO NOT PLACE SAND UNDER PRIVATE SIDEWALKS OR HANDICAP RAMPS FOR LEVEL UP COURSE. PUBLIC SIDEWALKS SHALL BE CONSTRUCTED ACCORDING TO CITY DETAILS.

6. FORMS SET FOR SIDEWALKS SHALL BE TRUE TO LINE AND GRADE AND SHALL PROVIDE A SLOPE OF 1/4 INCH PER FOOT ACROSS THE SIDEWALK UNLESS INDICATED OTHERWISE ON THE PLANS. FORMS SHALL BE SET TO PROVIDE FOR A FULL DEPTH OF CONCRETE INDICATED ON THE PLANS AND FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS. UPON REMOVAL OF THE FORM WORK, THE CONTRACTOR SHALL IMMEDIATELY BACKFILL THE EDGES OF THE WALK FOR A MINIMUM OF ONE FOOT (1') EACH SIDE OF THE WALK.

7. 18-INCH BY 3/4-INCH DIAMETER ASPHALT-COATED DOWELS WITH FIVE INCH BY 13/16-INCH DOWEL SLEEVE SHALL BE INSTALLED ON 16-INCH CENTERS, ALONG WITH EXPANSION JOINT FILLER AND SEALING COMPOUND AS PER STANDARD EXPANSION JOINT DETAIL SHEET ALONG PERIMETER OF WHEEL CHAIR RAMP AND SIDEWALK.

8. PROVIDE 15-INCH MINIMUM LAP BETWEEN REINFORCING STEEL IN STREET AND REINFORCING STEEL IN PEDESTRIAN CURB RAMP.

9. SUBGRADE FOR WALKWAYS ABUTTING CURBS, WITHIN PARKING ISLAND AREAS OR BETWEEN THE PARKING AREA AND BUILDING, SHALL BE PLACED ON COMPACTED FILL OR FIRM COMPACTED EXCAVATED GRADE. FILLS FOR SIDEWALKS SHALL CONFORM TO THE SAME REQUIREMENTS AS CONTROLLED DENSITY FILLS IN PARKING AREAS WITH THE COMPACTED MATERIAL EXTENDING A MINIMUM 18 INCHES BEYOND THE WALKWAY.

10. JOINT SEALING MATERIAL UTILIZED IN WALKWAY AREAS BETWEEN THE PARKING AREA AND THE BUILDING FOR EXPANSION JOINTS SHALL CONSIST OF "POURTHANE" MANUFACTURED BY W.R. MEADOWS, INC. OR EQUAL. THIS INCLUDES WALKWAYS ABUTTING PERIMETER PARKING IN FRONT OF BUILDING.

11. FOR WALKWAYS SIX FEET IN WIDTH OR LESS, GROOVED OR SAWED CONTRACTION JOINTS SHALL BE MADE AT UNIFORM INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK. ON WALKWAYS GREATER THAN SIX FEET IN WIDTH, CONTRACTION JOINTS SHALL BE SAWED. CONTRACTION JOINTS SHALL ONLY BE SEALED WHERE CONCENTRATED RUNOFF OCCURS IN PARKING AREAS, ENTRANCES AND WALKWAYS AT THE BUILDING. SEAL PARKING LOT CONCENTRATED RUNOFF AREAS SAME AS PARKING PAVEMENT. SEAL WALKWAYS WITHIN 50 FEET OF BUILDING WITH "DECK-0-SEAL" AS MANUFACTURED BY W.R. MEADOWS OR EQUAL.

12. CONCRETE FINISH SHALL BE BROOMED FOR ALL WALKWAYS LESS THAN SIX FEET IN WIDTH AND MINOR ACCESS ROUTES GREATER THAN EIGHT FEET IN WIDTH. ALL ACCESSIBLE RAMPS SHALL HAVE SURFACE TEXTURE FINISH COMPLYING WITH ADA AND TAS GUIDELINES 302 AND 405.4.

13. JOINT SEALING MATERIAL FOR WALKWAY AND EXPANSION JOINTS IN THE INTERNAL PARKING AREAS AND EXTERNAL OPEN AREAS SHALL BE "HI SPEC" MANUFACTURED BY W.R. MEADOWS OR EQUAL.

14. CLEAN ALL JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION PRIOR TO SEALING.

15. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

16. ALL PAVEMENT MARKINGS SHALL BE FOUR INCHES WIDE, COLOR WHITE UNLESS INDICATED OTHERWISE ON THE DRAWINGS. STRIPING TO BE TWO COATS OF PAINT. SECOND COAT TO THE APPLIED IMMEDIATELY PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

17. A MINIMUM CLEARANCE OF TWO (2) FEET SHALL BE MAINTAINED BETWEEN THE FACE OF CURB AND ANY PART OF A TRAFFIC SIGN.

18. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.

19. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.

20. FIRE LANE STRIPING WIDTH AND RADIUS SHALL BE COORDINATED WITH FIRE MARSHAL WHERE FIRE LANE IS INDICATED ON PLANS. UNLESS OTHERWISE DICTATED BY CURRENT ADOPTED FIRE CODE, THE FIRE LANE SHALL REQUIRE SOLID SIX-INCH RED CONTINUOUS STRIPING ON BOTH SIDES AND CURB RETURNS. THE WORDS "FIRE LANE NO PARKING" SHALL BE PAINTED ON MINIMUM 20-FOOT CENTERS WITH FOUR-INCH WHITE LETTERS WITHIN SOLID RED STRIPE PER CURRENT ADOPTED FIRE CODE. PAINT TYPE AND COLOR SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.

PRIVATE TESTING

1. REFER TO PROJECT GEOTECHNICAL RECOMMENDATIONS FOR FREQUENCY OF CONCRETE TESTING AND TEST METHODS. ALL CONCRETE SHALL BE TESTED. IF TESTING IS NOT ADDRESSED IN GEOTECHNICAL RECOMMENDATIONS PROVIDE AS PER NCTCOG ITEM 303.8.3 AND ITEM 702.3.4.5.

PRIVATE UTILITY NOTES

1. THESE NOTES ARE FOR SANITARY SEWER, WATER LINE AND STORM DRAINAGE CONSTRUCTION ONLY. DO NOT USE FOR GRADING CONSTRUCTION.

2. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.

3. ALL WATER AND SANITARY SEWER BULKHEADS TO TERMINATE APPROXIMATELY FIVE FEET OUTSIDE THE BUILDING UNLESS OTHERWISE NOTED. THE END OF THESE SERVICE LINES SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED UNTIL SUCH TIME AS CONNECTION IS MADE INSIDE BUILDING.

4. CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED BY THE WATER DEPARTMENT OR PLUMBING INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING PRESSURE TESTING AND DISINFECTION OF MAINS AND HIS SIGNATURE OF APPROVAL IS REQUIRED.

5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, CITY OR COUNTY. IN ABSENCE OF SPECIFIED CODE EDITION(S), THE MOST CURRENT EDITION SHALL APPLY.

6. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITY FOR CONNECTION TO THE EXISTING PUBLIC MAINS.

7. ALL PRIVATE FIRE HYDRANTS ARE SIX-INCH DIAMETER WITH A 6-INCH DIAMETER LINE AND A SIX-INCH DIAMETER SHUT OFF VALVE. FIRE HYDRANTS SHALL BE SET SUCH THAT NOZZLE CONNECTIONS FACE THE FIRE LANE. FIRE HYDRANTS SHALL BE SET MINIMUM THREE FEET TO FIVE FEET BACK OF CURB. THIS NOTE DOES NOT APPLY TO PUBLIC FIRE HYDRANTS.

8. ALL WATER LINES SMALLER THAN 6-INCHES SHALL BE INSTALLED PER APPLICABLE PLUMBING CODE. ALL WATER LINES 6-INCH TO 8-INCH SHALL HAVE A MINIMUM COVER OF 42 INCHES ABOVE TOP OF PIPE, UNLESS NOTED OTHERWISE. ALL WATER LINES 12-INCH OR LARGER SHALL HAVE A MINIMUM COVER OF 60 INCHES ABOVE TOP OF PIPE, UNLESS NOTED OTHERWISE.

9. CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM SEWER OR OTHER UTILITIES.

10. THRUST BLOCKS SHALL BE PROVIDED AT ALL "TEES, ELBOWS AND BENDS" OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A.-24 FOR EXISTING SOIL CONDITIONS.

11. CLEANOUTS ARE REQUIRED AT A MAXIMUM SPACING OF 75 FEET ON UTILITY LEAD-INS TO BUILDING PER PLUMBING CODE. CONTRACTOR TO PROVIDE CLEANOUTS WITHIN FIVE FEET OF BUILDING.

12. ALL GATE VALVES TO BE PROVIDED WITH CAST IRON BOXES. SIZE OF GATE VALVE (WHERE TAP IS MADE INTO EXISTING WATER LINE) WILL BE DETERMINED BY THE WATER DEPARTMENT.

13. SHOULD LATENT SOIL CONDITIONS NECESSITATE, CONTRACTOR SHALL INSTALL SPECIAL SUPPORTS FOR PIPING AND/OR APPURTENANCES INCLUDING THE REMOVAL OF UNSUITABLE MATERIAL AND BACKFILLING WITH GRAVEL OR OTHER MATERIAL. CONTRACTOR SHALL PERFORM ANY SUCH WORK AS DIRECTED BY THE CIVIL ENGINEER AND/OR SOILS ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

14. THE SITE UTILITY CONTRACTOR SHALL COOPERATE AND WORK WITH OTHER CONTRACTORS ON THE SITE.

15. ALL PRIVATE MANHOLES OVER FIVE FEET IN DEPTH SHALL HAVE A STANDARD ECCENTRIC CONE.

16. ALL MATERIALS SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

17. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS ARE BASED ON REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE GRAPHICAL REPRESENTATION OF THE UTILITIES SHOWN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

18. UTILITY CONTRACTOR SHALL VERIFY WITH LOCAL AND STATE AUTHORITIES THAT ALL EXISTING STREET LIGHT AND TRAFFIC SIGNAL WIRES HAVE BEEN LOCATED PRIOR TO CONSTRUCTION.

19. PRIVATE DOMESTIC WATER SERVICE LINES AND APPURTENANCES SHALL BE INSTALLED PER APPLICABLE BUILDING CODES.

20. UTILITY LEAD-INS TO BUILDING SHALL NOT BE INSTALLED UNTIL BUILDING PLANS ARE COMPLETED AND LOCATIONS ESTABLISHED ON THE ARCHITECTURAL PLUMBING PLANS. LEAD-INS MAY CHANGE 5 FEET HORIZONTALLY PRIOR TO INSTALLATION AT NO ADDITIONAL COST TO OWNER. LOCATION, SIZE AND INVERT ELEVATIONS OF SANITARY SEWER SHALL BE COORDINATED BY CONTRACTOR WITH THE APPROVED PLUMBING PLANS FOR THE BUILDING.

21. ALL TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND THE STANDARDS THEREIN AND APPLICABLE STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL PREPARE TRENCH SAFETY PLAN.

22. CONTRACTOR SHALL REFER TO SITE GEOTECHNICAL REPORT FOR RECOMMENDATIONS ON COMPACTING AND BACKFILLING TRENCHES.

23. TRENCHES SHALL BE TESTED FOR COMPACTION AT AN INTERVAL SPECIFIED BY THE GEOTECHNICAL ENGINEER. IF NO RECOMMENDATIONS ARE PROVIDED, TRENCHES SHALL BE TESTED AT A MINIMUM OF ONE TEST PER 300 LINEAR FEET PER LAYER.

24. TRENCHES ENTERING THE BUILDING OR UNDERGROUND STRUCTURES I.E VAULTS SHALL BE BACKFILLED WITH CLAY SOIL MATERIAL WITH P.I. EXCEEDING 30 WITHIN FIVE FEET OF THE BUILDING.

25. ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET RIGHT-OF-WAY, ALLEY OR EASEMENT SHALL BE INSTALLED BY A LICENSED PLUMBER AND BE INSPECTED BY CODE ENFORCEMENT.

26. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.

27. CONTRACTOR SHALL ENSURE ALL LIDS AND RIMS IN VEI STALLS ARE TRAFFIC RATED (PER AASHTO M306 HS-20 LOAD

28. CONTRACTOR SHALL NOT DISRUPT ANY UTILITY SERVI WITHOUT PRIOR NOTIFICATION AND APPROVAL OF THE GOV

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

CITY _____ DATE _____

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

GENERAL NOTES

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT
DATE 2/24/2022
WA# 21089

SHEET NO.
C101

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RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

GENERAL NOTES FOR PRIVATE IMPROVEMENTS ONLY.
REFER TO CITY STANDARDS, DETAILS AND SPECIFICATIONS FOR PUBLIC AND FIRE LANE IMPROVEMENTS.

NOTE:
USE CITY OF ROCKWALL & NCTCOG STANDARDS, UNLESS PRIVATE GENERAL NOTES ARE MORE RESTRICTIVE

PRIVATE GENERAL GRADING & DRAINAGE NOTES

1. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS ARE BASED ON REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT THE RESPONSIBILITY FOR THE GRAPHICAL REPRESENTATION OF THE UTILITIES SHOWN; IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. EXISTING TOPOGRAPHIC INFORMATION SHOWN IS BASED ON IN-FIELD SURVEY PREPARED BY WIER & ASSOCIATES, INC. ON NOV 09, 2021. (EXCLUDES BELOW GRADE PUBLIC UTILITY LOCATIONS PROVIDED BY UTILITY COMPANY AS DESCRIBED ABOVE.)
2. GRADING CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERATION OF OR RELOCATION OF THE FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES IN CONFORMANCE WITH CITY STANDARDS.
3. GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO ENSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.
4. ALL SITE GRADING AND EARTHWORK CONSTRUCTION SHALL COMPLY TO THE PROJECT GEOTECHNICAL REPORT RECOMMENDATIONS.
5. REFER TO PAVING DETAILS FOR TYPE OF PAVING AND BASE TO BE USED.
6. A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.
7. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
8. BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION. NO EXTENSION OF TIME WILL BE GRANTED FOR THE ABOVE.
9. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY AND ARE NOT TO BE USED TO LAYOUT FOOTINGS.
10. NEW FINISHED CONTOURS SHOWN ARE TOP OF PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED.
11. ROUGH GRADING ELEVATIONS SHALL BE AS FOLLOWS:
FOUR INCHES BELOW FINISHED CONTOURS IN SEEDED AREAS.
THE DEPTH OF PAVEMENT, TYPICALLY SIX TO EIGHT INCHES, BELOW FINISHED CONTOURS IN PAVED AREAS, UNLESS OTHERWISE NOTED.
12. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED SHALL RECEIVE MINIMUM FOUR (4) INCHES OF TOPSOIL (OR TO DEPTH INDICATED ON LANDSCAPE ARCHITECT PLANS). THIS TOPSOIL SHALL BE PLACED AND LEVELED BY THE GRADING CONTRACTOR. THIS MATERIAL MAY BE STOCKPILED DURING STRIPPING OPERATIONS.
13. GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCES OR RULES.
14. TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES AND SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS AND SILT FENCES AS NEEDED.
15. THE GRADING CONTRACTOR SHALL USE APPROPRIATE MEASURES WHICH ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT AND ACCEPTANCE OF VEGETATION IN COMPLIANCE WITH TXR150000 OR LOCAL GOVERNING BODY (WHICHEVER IS MORE RESTRICTIVE).
16. THE CONTRACTOR SHALL PREVENT SOIL STABILIZATION TREATMENT FROM LEAVING THE SITE BY WAY OF STORMWATER RUNOFF WHICH MAY DAMAGE DOWNSTREAM WATER COURSES, LAKES OR PONDS. ANY DAMAGE TO WILDLIFE OR FISH SHALL BE CORRECTED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
17. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO OWNER AS PERMITTED BY THE GOVERNING JURISDICTION.
18. GRADING CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY EXISTING STRUCTURES, FENCES, DEBRIS OR TREES REMAINING ON SITE, UNLESS NOTED OTHERWISE ON PLANS AND SHALL COORDINATE WITH GENERAL CONTRACTOR.
19. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY GRADING CONTRACTOR.
20. CONTRACTOR SHALL MAINTAIN AS MUCH EXISTING VEGETATION AS POSSIBLE AS WELL AS RE-ESTABLISH THE GROUND COVER AS EARLY AS POSSIBLE. GRASS BUFFER STRIPS SHALL BE LEFT AROUND THE PERIMETER TO AID IN FILTERING SEDIMENTATION. A DENSITY OF TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO PREVENT EROSION SHALL BE ESTABLISHED ON ALL BERMS, SWALES AND SLOPES.
21. ALL AREAS NOT COVERED BY BUILDING, PAVING OR PLANNED LANDSCAPING SHALL BE GRASSED ON THIS LOT INCLUDING ADJACENT PARKWAYS.
22. ALL DISTURBED AREAS SHALL BE HYDROMULCH SEEDED UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS.
23. IN THE ABSENCE OF JURISDICTIONAL REGULATIONS, FOR THE WORK IN THE STATE OR CITY RIGHT-OF-WAY, THE GRADING CONTRACTOR SHALL:

    A. NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT OR, IN CASE OF MULTI-LANE HIGHWAYS, IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY.

    B. PROVIDE ALL NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES AND FLAGMEN AS REQUIRED BY THE LOCAL AUTHORITIES AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE GRADING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE STATE DEPARTMENT OF TRANSPORTATION, THE CITY, AND THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES OR TO THE TRAVELING PUBLIC.

    C. COMPLETE THE WORK TO THE SATISFACTION OF THE CITY PUBLIC WORKS DEPARTMENT AND OBTAIN A LETTER FROM THE DEPARTMENT STATING THAT THE WORK UNDER PUBLIC JURISDICTION IS ACCEPTABLE.

    D. POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR STATE.

PARKING LOT GRADING NOTES

1. THE GRADING PLAN DOES NOT INCLUDE CONSTRUCTION OF THE FOUNDATION FOR THE BUILDING PAD AND THE AREAS ADJACENT TO THE BUILDING. THE OWNER SHALL SELECT THE FOUNDATION DESIGN OPTION WHICH WILL ESTABLISH THE CONSTRUCTION TECHNIQUE TO BE USED FOR THE FOUNDATION PAD AND AREAS OF THE BUILDING. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR FOUNDATION CONSTRUCTION RECOMMENDATIONS.
2. CONSTRUCTION OF SITE GRADING AND EMBANKMENT SHALL MEET OR EXCEED THE RECOMMENDATION PROVIDED IN THE PROJECT GEOTECHNICAL REPORT.
3. AREAS A MINIMUM FIVE FEET HORIZONTALLY OF THE PARKING PAVEMENT AND EMBANKMENT SLOPES ADJACENT TO PARKING AREA SHALL BE CONSTRUCTED AS PER THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THE BELOW SPECIFICATIONS ARE MINIMUM REQUIREMENTS AND SHALL BE SUPERSEDED BY THE PROJECT GEOTECHNICAL RECOMMENDATIONS IF IN CONFLICT. THE SPECIFICATIONS ARE AS FOLLOWS:

    A. THE AREA SHALL BE STRIPPED OF VEGETATION A MINIMUM SIX INCHES OR DEEPER AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER TO STABLE SUBGRADE AND PROOFROLLED. PROOFROLLING CONSISTS OF ROLLING THE ENTIRE SUBGRADE WITH A HEAVILY-LOADED TANDEM AXLE DUMP TRUCK OR OTHER APPROVED EQUIPMENT CAPABLE OF APPLYING SIMILAR WHEEL LOADS. ANY SOFT, WET OR WEAK FILL OR NATURAL SOILS WHICH DO NOT COMPACT BY PROOFROLLING SHALL BE REMOVED AND RECOMPACTED AS OUTLINED HEREIN. THE PROOFROLLING OPERATION MUST BE PERFORMED UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE AND DENSITY CONTROL TESTED.

    B. ON-SITE SOILS WITH PLASTICITY INDEX ANTICIPATED TO BE GREATER THAN 15, WHICH INCLUDES ANY DARK COLORED SURFACE CLAY SOILS, CAN BE ALSO USED AS GRADE RAISE FILL OUTSIDE THE PROPOSED BUILDING AREA. THESE CLAY SOILS SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF STANDARD PROCTOR DENSITY AND NOT EXCEEDING 100 PERCENT. THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHALL BE BETWEEN OPTIMUM AND FOUR (4) PERCENTAGE POINTS ABOVE OPTIMUM.

    C. COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN SIX TO EIGHT-INCH THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. IT IS IMPERATIVE THAT THE FILL PARTICLE SIZE BE LESS THAN SIX INCHES IN DIAMETER. IF LARGER CLODS ARE ENCOUNTERED DURING GRADING, THESE CLODS MUST BE BROKEN DOWN PRIOR TO FINAL PLACEMENT IN THE FILL. THIS MAY REQUIRE PLACEMENT OF THE MATERIAL, AN INITIAL COMPACTIVE EFFORT TO BREAK THE CLODS DOWN, SCARIFYING, WETTING AND RECOMPACTING.

    D. IN ORDER FOR THE FILL MATERIALS TO PERFORM AS INTENDED, THE FILL MATERIAL MUST BE PLACED IN A MANNER WHICH PRODUCES A GOOD UNIFORM FILL COMPACTED WITHIN THE DENSITY AND MOISTURE RANGES OUTLINED IN THE PRECEDING PARAGRAPHS. FIELD DENSITY TESTS SHALL BE PERFORMED ON FILL SOILS TO CONFIRM THIS PERFORMANCE AS CONSTRUCTION PROGRESSES. FOR THE PROPOSED PARKING AND DRIVEWAY AREAS, TESTING AT A FREQUENCY OF NO LESS THAN ONE (1) TEST PER LIFT PER EACH 5,000 SQUARE FEET SHALL BE PROVIDED FOR FILL AND PROOFROLLING.

4. THESE SPECIFICATIONS DO NOT INCLUDE GRADING AND PREPARATION OF THE BUILDING FOUNDATION AREA. THE CONTRACTOR SHALL CONFIRM FOUNDATION CONSTRUCTION COMPACTION, MOISTURE CONTROL, SELECT FILLS AND/OR TREATMENT WITH THE OWNER, THE PROJECT GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER.
5. FOUNDATION SUBGRADE SHALL EXTEND A MINIMUM OF 5' BEYOND FOUNDATION LIMITS AND TRANSITION AT A 1 TO 1 SLOPE TO PROPOSED GRADE, OR AS RECOMMENDED BY THE PROJECT GEOTECHNICAL ENGINEER.
6. CONTRACTOR SHALL INQUIRE WITH PROJECT GEOTECHNICAL ENGINEER IN AREAS OF TREE REMOVAL AND ADDITIONAL SUBGRADE PREPARATION THAT MAY BE REQUIRED.

EROSION CONTROL NOTES

1. THE CONTRACTOR AND SUB-CONTRACTORS WORKING ON THIS SITE SHALL THOROUGHLY REVIEW AND UNDERSTAND THE APPLICABLE REGULATIONS UNDER SECTION 402 OF THE CLEAN WATER ACT AND CHAPTER 26 OF THE TEXAS WATER CODE REGARDING GENERAL PERMIT PROVISIONS TO DISCHARGE WASTE UNDER TPDES CONSTRUCTION GENERAL PERMIT NO. TXR150000 ISSUED FEBRUARY 8, 2018 AND EFFECTIVE MARCH 5, 2018 BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. REGULATIONS, PERMIT FORMS AND SUPPORT INFORMATION CAN BE OBTAINED BY CONTACTING THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) STORM WATER PROGRAM AT (512)239-4671 OR ON THE TCEQ WEB SITE AT www.tceq.texas.gov/permitting/stormwater/sw_permits.html.
2. CONTRACTOR TO INSTALL PIPE SEDIMENT FILLER AT END OF EACH WORK DAY TO PREVENT ENTRY OF SEDIMENT INTO PROPOSED STORM SEWERS DURING CONSTRUCTION.
3. ALL STAGING AREAS, VEHICLE PARKING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY DO NOT ADVERSELY AFFECT THE STORM WATER QUALITY.
4. ON-SITE FUEL STORAGE TANKS SHALL BE PROTECTED BY A BERMED OR OTHERWISE SPILL PROTECTED AREA.
5. A CENTRAL PIT/WASH BASIN SHOULD BE CONSTRUCTED ON-SITE FOR THE PURPOSE OF TRUCK WASHING.
6. A MAINTENANCE PROGRAM SHALL BE DEVELOPED USING BEST MANAGEMENT PRACTICES FOR THIS PROJECT.
7. IN ORDER TO KEEP DISTURBANCE TO A MINIMUM, VEGETATION SHOULD BE RE-ESTABLISHED ON ALL DENUDED AREAS IN A TIMELY MANNER.
8. GENERAL CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR PREVENTING SEDIMENT OR OTHER POLLUTANTS FROM LEAVING THE SITE. CARE SHALL BE EXERCISED TO PREVENT THE FLOW OR OFF-SITE TRACKING OF SEDIMENT OR OTHER POLLUTANTS TO ADJACENT ROADWAYS, INLETS, STORM SEWERS AND DRAINAGE DITCHES.
9. ALL SURFACE AREAS DISTURBED WITHIN OR ADJACENT TO CONSTRUCTION LIMITS MUST BE PERMANENTLY STABILIZED. STABILIZATION IS OBTAINED WHEN THE SITE IS COVERED WITH IMPERVIOUS STRUCTURES, PAVING OR A UNIFORM PERENNIAL VEGETATION COVER. THE PERENNIAL VEGETATION MUST HAVE A COVERAGE DENSITY OF AT LEAST 70 PERCENT. STABILIZATION IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES. UPON MEETING THESE REQUIREMENTS, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
10. ALL PERIMETER EROSION CONTROL MEASURES AND ROCK STABILIZED EXIT MUST BE IN PLACE BEFORE STARTING SOIL DISTURBING ACTIVITIES.
11. THE GENERAL CONTRACTOR OR OWNER SHALL INSPECT EROSION CONTROL MEASURES AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. RECORDS OF EACH INSPECTION SHOULD BE RETAINED ON SITE WITH THE SWPPP. CONTRACTOR TO REPLACE OR REPAIR DAMAGED MEASURES AS NECESSARY. EROSION CONTROL MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN (7) CALENDAR DAYS.
12. GENERAL CONTRACTOR AND OWNER/DEVELOPER SHALL SUBMIT CONSTRUCTION SITE NOTICE AND/OR NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS (AS REQUIRED) TO THE TCEQ AND COPIES TO THE GOVERNING JURISDICTION ENGINEERING DEPARTMENT. ALL TCEQ ASSIGNED PERMIT NUMBERS SHALL BE COPIED TO THE GOVERNING JURISDICTION WHEN THEY ARE AVAILABLE.
13. FOR ALTERNATIVE STABILIZATION AND EROSION CONTROL MEASURES, REFER TO THE CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP) MANUAL PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.
14. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, CONTRACTOR TO FILTER THE DISCHARGE SHALL REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER ENTERS STORM DRAIN FACILITIES OR LEAVES THE SITE.
15. ROCK STABILIZED ACCESS SHALL BE CONSTRUCTED AT ALL POINTS USED AS AN EXIT FROM THE CONSTRUCTION SITE.
16. CONTRACTOR SHALL LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. SILT FENCE IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE OPENING IN THE FABRIC.
17. STORE ALL TRASH AND BUILDING MATERIAL IN AN ENCI OFF-SITE FACILITIES.
18. SURFACE STABILIZATION MEASURES MUST BE INITIATED CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTL OR MORE.

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CITY _____ DATE _____

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Texas Firm Registration No. F-2776 www.WierAssociates.com

NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & I-30 FRONTAGE ROAD
ROCKWALL PARKWAY
ROCKWALL, TEXAS

GENERAL NOTES 2

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

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GENERAL ITEMS

1. All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of the NCTCOG Standard Specifications and Details and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times
2. Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.
3. The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: http://www.rockwall.com/engr.asp
4. All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.
5. Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.
6. The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".
7. All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
8. All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.
9. The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.
10. A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

EROSION CONTROL & VEGETATION

1. The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ). This includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the Notice of Termination (NOT) and any Notice of Change (NOC) and is required to pay all associated fees
2. Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
3. All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.
4. If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when applicable.
5. All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.
6. The CONTRACTOR shall not dispose of waste and any materials into streams, waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials.
7. CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.
8. CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.
9. All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.
10. All adjacent streets/alleys shall be kept clean at all times
11. CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.
12. Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not meet. Work may commence after deficiency has been rectified.
13. During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.
14. Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement washing shall be allowed only after sediment is removed in this manner.
15. All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of cleaning.
16. During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge into a receiving outlet.

TRAFFIC CONTROL

1. All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval a minimum of 21 calendar days prior to planned day of implementation.
2. When the normal function of the roadway is suspended through closure of any portion of the right-of-way, temporary construction work zone traffic control devices shall be installed to effectively guide the motoring public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow is an integral element of every traffic control zone.
3. All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur on roadways without an approval from the Rockwall Engineering Department and an approved traffic control plan. Traffic control plans shall be required on all roadways as determined by the City Engineer or the designated representative.
4. All traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.
5. The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks prior to any the closures in writing and verbally.
6. Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.
7. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer appropriate shall be removed or covered. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure.
8. Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during peak hours of 7:00 am – 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual start-finish times of the actual school with approval by the City Engineer. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure of a roadway whether they are working or not.
9. No traffic signs shall be taken down without permission from the City.
10. No street/roadway will be allowed to be fully closed.

UTILITY LINE LOCATES

1. It is the CONTRACTOR's responsibility to notify utility companies to arrange for utility locates at least 48 hours prior to beginning construction. The completeness and accuracy of the utility data shown on the plans is not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the depth and location of existing underground utilities proper to excavating, trenching, or drilling and shall be required to take any precautionary measures to protect all lines shown and .or any other underground utilities not on record or not shown on the plans.
2. The CONTRACTOR shall be responsible for damages to utilities
3. CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.
4. All utilities shall be placed underground.
5. CONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or exposed by construction operations. Where existing mains or service lines are cut, broken or damaged, the CONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original construction or better. The City of Rockwall can and will intervene to restore service if deemed necessary and charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a timely manner by the CONTRACTOR.
6. The City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call – 811 – line locate system. All City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.
7. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
   a. No more than 500 linear feet of trench may be opened at one time.
   b. Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends.
   c. Applicable safety regulations shall be complied with.
11. This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.
12. All underground lines shall be installed, inspected, and approved prior to backfilling.
13. All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

WATER LINE NOTES

1. The CONTRACTOR shall maintain existing water service at all tim
2. Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch ar shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.
3. Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's engineering standards of design and construction manual.
4. CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well as any costs incurred when the loss of fire protection to a structure occurs.
5. CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves (both existing and proposed).
6. All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal Service Center.
7. Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed water line and every 250'.
8. All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.
9. All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.
10. Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.
11. All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited to parking spaces and landscaping.
12. All joints are to be megalug joints with thrust blocking.
13. Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.
14. CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.
15. All domestic and irrigation services are required to have a testable backflow device with a double check valve installed per the City of Rockwall regulations at the property line and shown on plans.

WASTEWATER LINE NOTES

1. The CONTRACTOR shall maintain existing wastewater service at all times during construction.
2. Wastewater line for 4-inch through 15-inch shall be Green PVC – SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and lager wastewater line shall be Green PVC – PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services will be allowed on a sanitary sewer line deeper than 10 feet.
3. Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's public works standard design and construction manual.
4. Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.
5. CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals are accounted for and transferred to proposed wastewater lines prior to abandonment.
6. All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.
7. Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.
8. All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20^{th}) month of the maintenance period.
9. All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform to the measures called out in standard detail R-5031.
10. All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal.. Consheild must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.
11. All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim and cover to prevent inflow.
12. If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
13. CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.

GENERAL CONSTRUCTION NOTES
Sheet 1 of 2
October 2020

CITY OF ROCKWALL
ENGINEERING DEPARTMENT

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RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

PREPARED BY:
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FROST BANK
ROCKWALL FINANCIAL CENTER

NWC OF HORIZON ROAD/FM 3097 &
ROCKWALL PARKWAY
ROCKWALL, TEXAS

CITY GENERAL NOTES

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DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

1. All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.
2. Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.
3. All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.
4. No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

PAVING AND GRADING

1. All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.
2. All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Street/Pavement Type	Minimum Thickness (inches)	Streng th 28-Day (psi)	Minimum Cement (sacks / CY)		Steel Reinforcement	
			Machine placed	Hand Placed	Bar #	Spacing (O.C.E.W.)
Arterial	10”	3,600	6.0	6.5	#4 bars	18”
Collector	8”	3,600	6.0	6.5	#4 bars	18”
Residential	6”	3,600	6.0	6.5	#3 bars	24”
Alley	7”-5”-7”	3,600	6.0	6.5	#3 bars	24”
Fire Lane	6”	3,600	6.0	6.5	#3 bars	24”
Driveways	6”	3,600	6.0	6.5	#3 bars	24”
Barrier Free Ramps	6”	3,600	N/A	6.5	#3 bars	24”
Sidewalks	4”	3,000	N/A	5.5	#3 bars	24”
Parking Lot/Drive Aisles	5”	3,000	5.0	5.5	#3 bars	24”
Dumpster Pads	7”	3,600	6.0	6.5	#3 bars	24”

3. Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudinal butt joint constructed.
4. No sand shall be allowed under any paving.
5. All concrete mix design shall be submitted to the City for review and approval prior to placement.
6. Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.
7. All curb and gutter shall be integral (monolithic) with the pavement.
8. All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.
9. All concrete compression tests and soil compaction/density tests are required to be submitted to the City’s Engineering Inspector immediately upon results.
10. All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).
11. All public sidewalks shall be doweled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.
12. All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)
13. Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.
14. All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.
15. Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.
16. All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.
17. CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.
18. CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.
19. CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

DRAINAGE / STORM SEWER NOTES

1. The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.
2. All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.
3. Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.
4. All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.
5. All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.
6. All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.
7. All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.
8. All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR’s expense. A television survey will be performed as part of the final testing in the twentieth (20^{th}) month of the maintenance period.

RETAINING WALLS

1. All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department
2. All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.
3. All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.
4. All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.
5. No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

FINAL ACCEPTANCE AND RECORD DRWINGS/AS-BUILTS

1. Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.
2. After improvements have been constructed, the developer shall be responsible for providing to the City “As Built” or “Record Drawings”. The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.
3. Submit 1-set of printed drawings of the “Record Drawings” containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the “Record Drawing” digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.
4. Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as “Record Drawings” or “As Built Drawings” on all sheets.
5. The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer’s surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like or similar disclaimer verbiage will not be accepted by the City of Rockwall.
6. Example of Acceptable Disclaimer: “To the best of our knowledge ABC Engineering, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.”

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

GENERAL CONSTRUCTION NOTES
Sheet 2 of 2
October 2020

CITY OF ROCKWALL
ENGINEERING DEPARTMENT

385 S. Goliad
Rockwall, Texas 75087
P (972) 771-7746
F (972) 771-7748

PREPARED BY:
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ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DESCRIPTION	BY

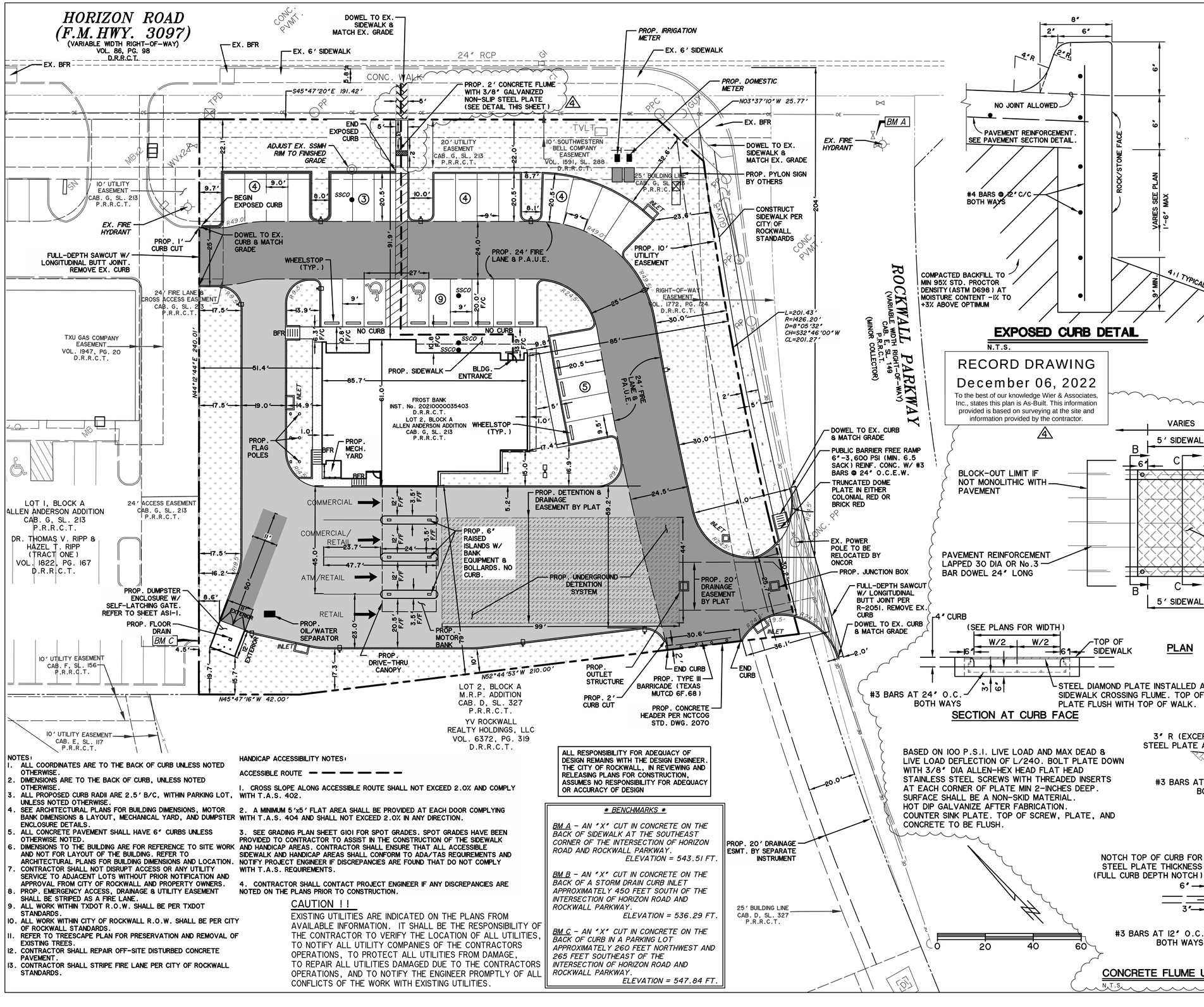
FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

CITY GENERAL NOTES 2

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE
WA# 21089
SHEET NO. C104

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 3/21/2022 4:10 PM SAVED BY: LUISG FILE: C104 CITY GENERAL NOTES 2 21089.DWG



PAVING PLAN LEGEND

- 5" 3,600 P.S.I. LIGHT DUTY REINFORCED CONCRETE PAVEMENT (MIN. 6.5 SACK MIX)
- 6" 3,600 P.S.I. MEDIUM DUTY REINFORCED CONCRETE PAVEMENT (MIN. 6.5 SACK MIX)
- 7" 3,600 P.S.I. HEAVY DUTY REINFORCED CONCRETE PAVEMENT (MIN. 6.5 SACK MIX)
- 8" 3,600 P.S.I. REINFORCED CONCRETE PAVEMENT W/ 6" DEPTH LIME TREATED SUBGRADE
- CITY SIDEWALK PER CITY OF ROCKWALL STANDARDS: 4" - 3,000 P.S.I. REINFORCED CONCRETE, MIN. 5.5 SACK MIX, #3 BARS @24" O.C.E.W. PER CITY STANDARDS
- 4" 3,000 P.S.I. REINFORCED CONCRETE SIDEWALK (MIN. 5.5 SACK MIX)
- PROP. SIDEWALK PER TXDOT PED-18 DETAILS
- PROP. LANDSCAPE/SEEDING AREAS
- PROP. UNDERGROUND DETENTION SYSTEM
- PROP. LIGHT POLE
- BFR — BARRIER FREE RAMP PER TAS STANDARDS
- EOP — EDGE OF PAVEMENT
- O.C.E.W. — ON CENTER EACH WAY
- P.A.U.E. — PUBLIC ACCESS & UTILITY EASEMENT

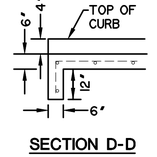
EXPOSED CURB DETAIL

N.T.S.

RECORD DRAWING
December 06, 2022

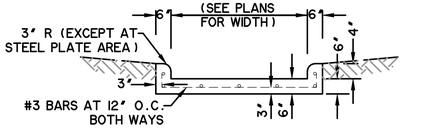
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

SECTION AT CURB FACE



SECTION D-D

BASED ON 100 P.S.I. LIVE LOAD AND MAX DEAD & LIVE LOAD DEFLECTION OF L/240. BOLT PLATE DOWN WITH 3/8" DIA ALLEN-HEX HEAD FLAT HEAD STAINLESS STEEL SCREWS WITH THREADED INSERTS AT EACH CORNER OF PLATE MIN 2-INCHES DEEP. SURFACE SHALL BE A NON-SKID MATERIAL. HOT DIP GALVANIZE AFTER FABRICATION. COUNTER SINK PLATE. TOP OF SCREW, PLATE, AND CONCRETE TO BE FLUSH.



SECTION B-B

3,000 P.S.I. CONCRETE PROVIDE GROOVED CONTRACTION JOINTS @ 4'-0" O.C.

SECTION C-C

CONCRETE FLUME UNDER SIDEWALK

N.T.S.

NOTES:

1. ALL COORDINATES ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE TO THE BACK OF CURB, UNLESS NOTED OTHERWISE.
3. ALL PROPOSED CURB RADII ARE 2.5' B/C, WITHIN PARKING LOT, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, MOTOR BANK DIMENSIONS & LAYOUT, MECHANICAL YARD, AND DUMPSTER ENCLOSURE DETAILS.
5. ALL CONCRETE PAVEMENT SHALL HAVE 6" CURBS UNLESS OTHERWISE NOTED.
6. DIMENSIONS TO THE BUILDING ARE FOR REFERENCE TO SITE WORK AND NOT FOR LAYOUT OF THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LOCATION.
7. CONTRACTOR SHALL NOT DISRUPT ACCESS OR ANY UTILITY SERVICE TO ADJACENT LOTS WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM CITY OF ROCKWALL AND PROPERTY OWNERS.
8. PROP. EMERGENCY ACCESS, DRAINAGE & UTILITY EASEMENT SHALL BE STRIPED AS A FIRE LANE.
9. ALL WORK WITHIN TXDOT R.O.W. SHALL BE PER TXDOT STANDARDS.
10. ALL WORK WITHIN CITY OF ROCKWALL R.O.W. SHALL BE PER CITY OF ROCKWALL STANDARDS.
11. REFER TO TREESCAPE PLAN FOR PRESERVATION AND REMOVAL OF EXISTING TREES.
12. CONTRACTOR SHALL REPAIR OFF-SITE DISTURBED CONCRETE PAVEMENT.
13. CONTRACTOR SHALL STRIPE FIRE LANE PER CITY OF ROCKWALL STANDARDS.

HANDICAP ACCESSIBILITY NOTES:

ACCESSIBLE ROUTE

1. CROSS SLOPE ALONG ACCESSIBLE ROUTE SHALL NOT EXCEED 2.0% AND COMPLY WITH T.A.S. 402.
2. A MINIMUM 5'x5' FLAT AREA SHALL BE PROVIDED AT EACH DOOR COMPLYING WITH T.A.S. 404 AND SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
3. SEE GRADING PLAN SHEET G101 FOR SPOT GRADES. SPOT GRADES HAVE BEEN PROVIDED TO CONTRACTOR TO ASSIST IN THE CONSTRUCTION OF THE SIDEWALK AND HANDICAP AREAS. CONTRACTOR SHALL ENSURE THAT ALL ACCESSIBLE SIDEWALK AND HANDICAP AREAS SHALL CONFORM TO ADA/TAS REQUIREMENTS AND NOTIFY PROJECT ENGINEER IF DISCREPANCIES ARE FOUND THAT DO NOT COMPLY WITH T.A.S. REQUIREMENTS.
4. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF ANY DISCREPANCIES ARE NOTED ON THE PLANS PRIOR TO CONSTRUCTION.

CAUTION !!

EXISTING UTILITIES ARE INDICATED ON THE PLANS FROM AVAILABLE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES, TO NOTIFY ALL UTILITY COMPANIES OF THE CONTRACTORS OPERATIONS, TO PROTECT ALL UTILITIES FROM DAMAGE, TO REPAIR ALL UTILITIES DAMAGED DUE TO THE CONTRACTORS OPERATIONS, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING UTILITIES.

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

*** BENCHMARKS ***

BM A – AN "X" CUT IN CONCRETE ON THE BACK OF SIDEWALK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 543.51 FT.

BM B – AN "X" CUT IN CONCRETE ON THE BACK OF A STORM DRAIN CURB INLET APPROXIMATELY 450 FEET SOUTH OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 536.29 FT.

BM C – AN "X" CUT IN CONCRETE ON THE BACK OF CURB IN A PARKING LOT APPROXIMATELY 260 FEET NORTHWEST AND 265 FEET SOUTHEAST OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 547.84 FT.

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Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DATE	DESCRIPTION	BY
1	3/21/22	ADDENDUM NO 001	
2	6/03/22	ADDENDUM NO. 003	
3	6/22/22	ADDENDUM NO. 004	
4	9/15/22	PRIVATE SIDEWALK FLUME	

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

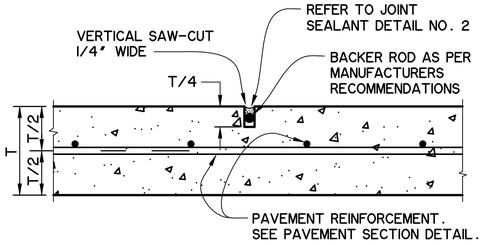
PAVING AND DIMENSIONAL CONTROL PLAN

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
9/15/2022

LAST SHEET EDIT DATE 9/15/2022
WA# 21089

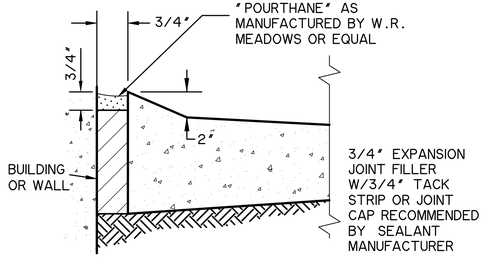
SHEET NO. C301

PRINTED: 9/15/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 9/15/2022 1:25 PM SAVED BY: LUSG FILE: C301 PAVING AND DIMENSIONAL CONTROL PLAN 21089.DWG



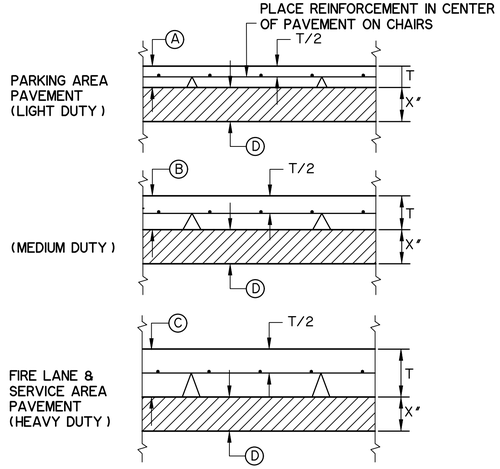
SAWED CONTRACTION JOINT

N.T.S.



WALKWAY ISOLATION JOINT AT BUILDING

N.T.S.



PAVEMENT SECTIONS

N.T.S.

NOTES:

1. PRIVATE ON-SITE PAVING

   A. 5" - 3,600 P.S.I. CLASS "C" PORTLAND CEMENT CONCRETE (MIN. 6.5 SACK MIX) REINFORCED WITH #3 BARS @ 18" C/C BOTH WAYS.

   B. 6" - 3,600 P.S.I. CLASS "C" PORTLAND CEMENT CONCRETE (MIN. 6.5 SACK MIX) REINFORCED WITH #3 BARS @ 18" C/C BOTH WAYS.

   C. 7" - 3,600 P.S.I. CLASS "C" PORTLAND CEMENT CONCRETE (MIN. 6.5 SACK MIX) REINFORCED WITH #3 BARS @ 18" C/C BOTH WAYS.

   D. SUBGRADE:

   OPTION 1: 6" DEPTH LIME TREATED SUBGRADE (36 LBS/SY) IN ACCORDANCE WITH TXDOT ITEM 260 AND COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY (ASTM D698) AT -2% TO +4% OF OPTIMUM MOISTURE CONTENT.

   OPTION 2: IN LIEU OF LIME STABILIZED SUBGRADE, INCREASE PORTLAND CEMENT CONCRETE THICKNESS BY 2" WITH A 6" COMPACTED SUBGRADE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY (ASTM D698) AT -2% TO +4% OF OPTIMUM MOISTURE CONTENT

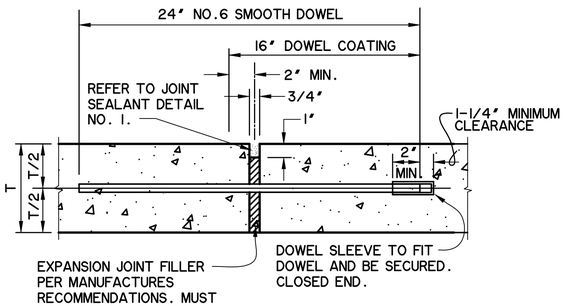
   OPTION 3: FLEXIBLE BASE PER TXDOT ITEM 247, TYPE A, GRADES 1 OR 2, PLACED ATOP COMPACTED SUBGRADE.

2. MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PREPARED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.
3. DO NOT PLACE SAND OR SELECT FILL BENEATH PAVEMENT FOR LEVEL UP COURSE. UTILIZE ONLY LIME STABILIZED MATERIALS.
4. COMPACTION OF THE PAVEMENT SUBGRADES, BASES, AND NEW FILL SHALL BE VERIFIED BY FIELD MOISTURE/DENSITY TESTS MADE AT A RATE SPECIFIED BY GEOTECHNICAL REPORT. IF NOT SPECIFIED IN REPORT, TESTS SHALL BE MADE AT A MINIMUM FREQUENCY OF ONE TEST PER 10,000 SQUARE FEET.
5. THE CONCRETE SHALL BE DESIGNED IN ACCORDANCE WITH ACI BUILDING CODE 318 USING 3% TO 6% AIR ENTRAINMENT. THE CONCRETE DESIGN MIX SHALL BE PROVIDED TO THE PROJECT GEOTECHNICAL ENGINEER FOR REVIEW.
6. SEE SHEET C301 FOR PAVEMENT LEGENDS.
7. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT PREPARED BY CMJ ENGINEERING, INC. DATED 01/07/2022, REPORT NO. 142-21-07.

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

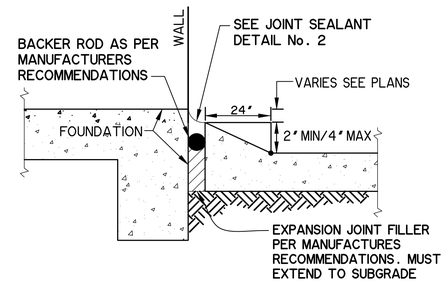
_____ CITY _____ DATE

NOTE: DOWEL SUPPORT SHALL BE OF A METHOD APPROVED BY ENGINEER.



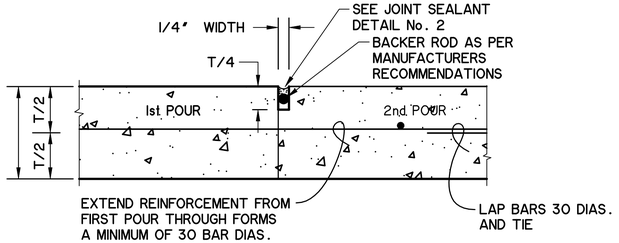
EXPANSION JOINT

N.T.S.



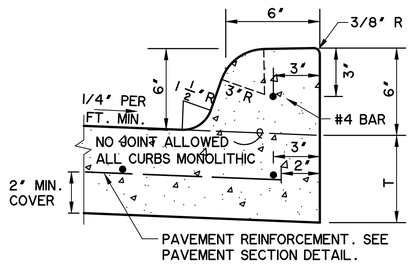
BUILDING ISOLATION JOINT

N.T.S.



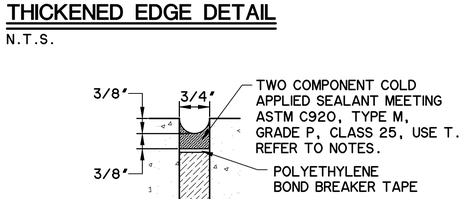
CONSTRUCTION JOINT

N.T.S.



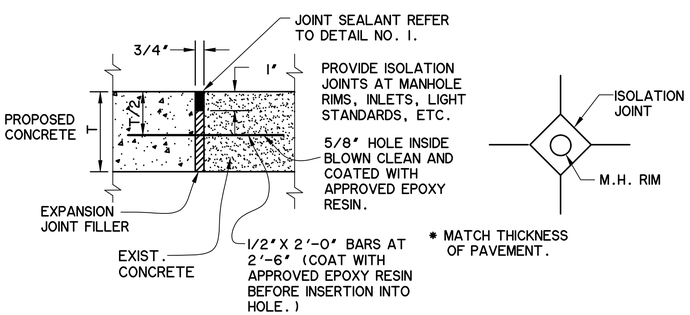
MONOLITHIC CURB DETAIL

N.T.S.



THICKENED EDGE DETAIL

N.T.S.

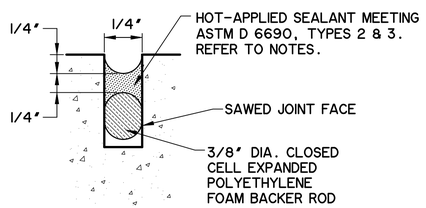


TYPICAL ISOLATION JOINT

N.T.S.

JOINT SEALANT DETAIL No. 1 SEAL FOR EXPANSION JOINT

N.T.S.



JOINT SEALANT DETAIL No. 2 SEAL FOR SAWED, CONSTRUCTION & BUTT JOINT

N.T.S.

GENERAL PAVING NOTES:

1. T = PAVEMENT THICKNESS
2. CONTRACTOR MAY ELECT TO USE DOWELED CURB OR MONOLITHIC CURB
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTALBLE.
4. SECURE DOWEL BARS INTO EXISTING PAVEMENT WITH EPOXY GROUT INSERTED INTO THE HOLE TO COMPLETELY FILL VOID.
5. POLYETHYLENE FOAM BACKER ROD DOES NOT SIT ON BOTTOM OF SAW-CUT JOINT. PLACE AT DEPTH INDICATED IN DETAIL.
6. IF SEALANT PROTRUDES ABOVE THE SURFACE OF THE PAVEMENT, IT MUST BE REMOVED AND REPLACED.
7. SUBMIT MANUFACTURER'S LITERATURE FOR SEALANT, DOCUMENTING PRODUCT COMPLIES WITH ASTM SPECIFICATIONS AND PROVIDING MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION. FOLLOW MANUFACTURER'S RECOMMENDATIONS ON USE OF THE PRODUCT.
8. THE CONSTRUCTION JOINT IS TO BE USED BETWEEN SEPARATE POURS OF PROPOSED PAVEMENT. NOTE THAT IT REQUIRES THE REINFORCEMENT TO THE EXTENDED THROUGH THE FORM TO TIE TO THE NEXT POUR. THE BUTT JOINT IS TO BE USED BETWEEN EXISTING CONCRETE PAVEMENT (STREET OR DRIVEWAY) AND PROPOSED PAVEMENT, UNLESS AN EXPANSION JOINT IS CALLED FOR.
9. JOINT SEALANTS SHALL BE INSTALLED SOON AFTER JOINTS ARE SAWED AND/OR COMPLETED. THE JOINTS SHALL BE SEALED BEFORE A RAIN EVENT OCCURS AFTER SAWING OR COMPLETING THE JOINT.
10. JOINT SEALANTS MAY BE REQUIRED BY ARCHITECT OR OWNER TO BE GREY SILICONE TYPE SEALANTS MEETING ASTM C639, ASTM C679, ASTM C792, ASTM C793, ASTM D412 AND ASTM D792.

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

PREPARED BY:
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

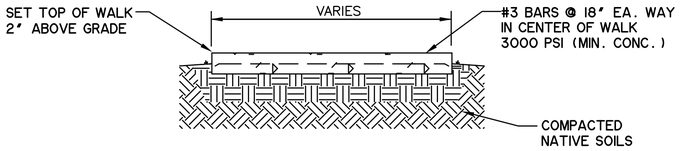
PAVING DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/25/2022
WA# 21089

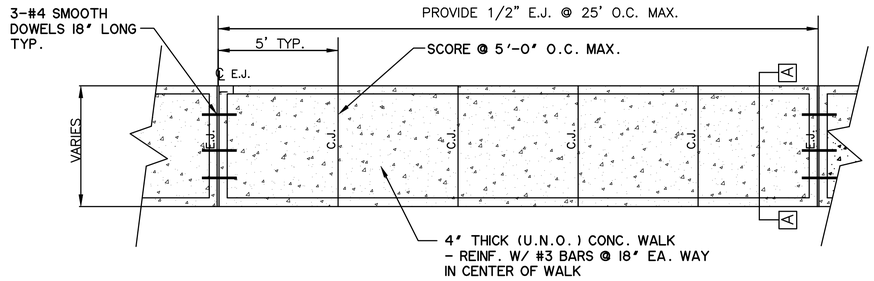
SHEET NO. C302

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 2/25/2022 10:27 AM SAVED BY: LUIGS FILE: C302 PAVING DETAILS 21089.DWG



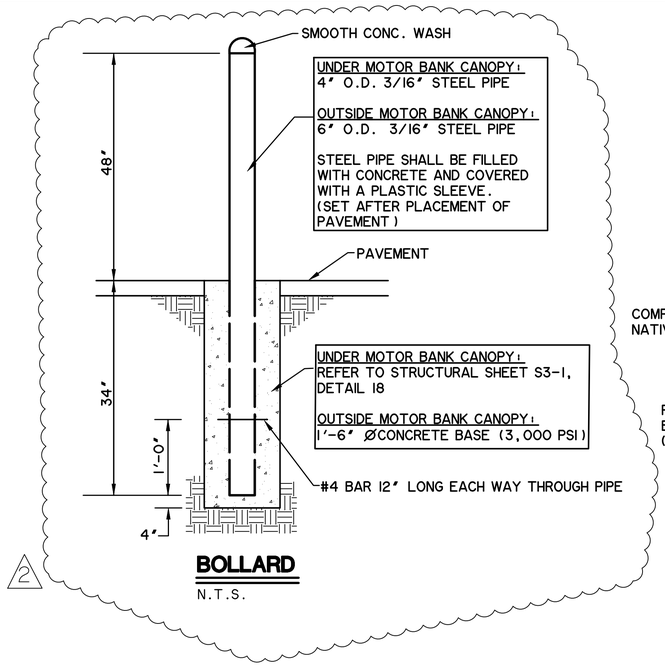
SECTION 'A-A' - TYP. CONC. WALK

N.T.S.



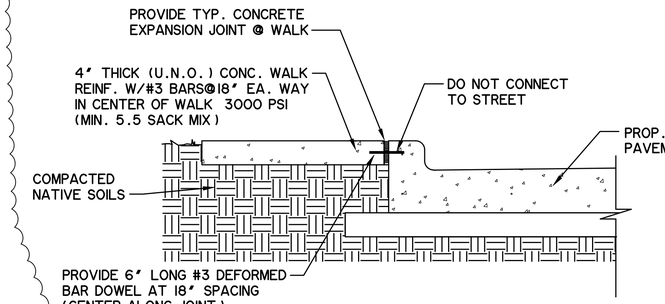
PLAN - TYP. CONC. WALK

N.T.S.



BOLLARD

N.T.S.

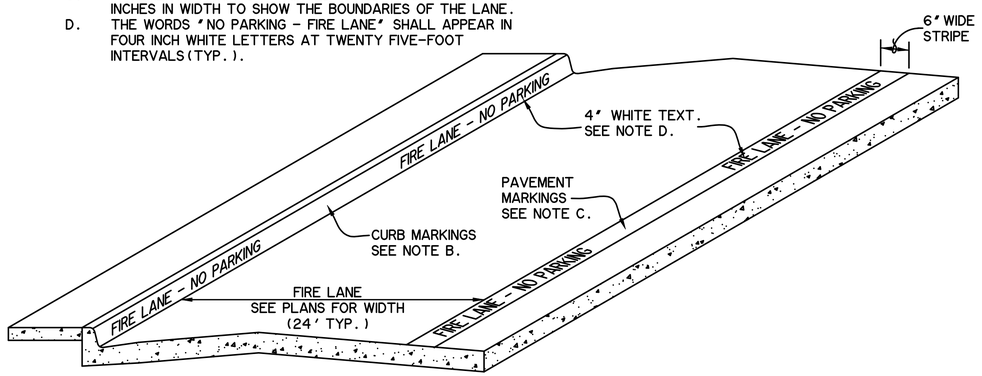


WALK TO CURB

N.T.S.

FIRE LANES MARKINGS SHALL BE AS FOLLOWS:

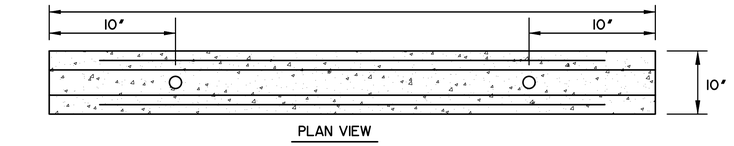
A. REFER TO CITY'S ADOPTED FIRE CODE FOR FIRE LANE MARKING REQUIREMENTS. TYPICAL REQUIREMENTS SHOWN BELOW.
B. CURB MARKINGS - PAINTED IN RED TRAFFIC PAINT FROM THE TOP OF THE SEAM OF THE CURB TO A POINT EVEN WITH THE DRIVING SURFACE,
C. PAVEMENT MARKINGS - PAINTED IN RED TRAFFIC PAINT SIX INCHES IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE.
D. THE WORDS 'NO PARKING - FIRE LANE' SHALL APPEAR IN FOUR INCH WHITE LETTERS AT TWENTY FIVE-FOOT INTERVALS(TYP.).



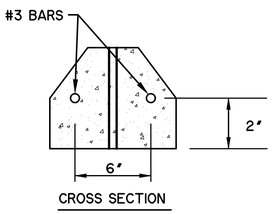
FIRE LANE STRIPING DETAIL

N.T.S.

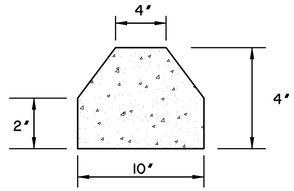
6'-0" PASSENGER CAR PARKING



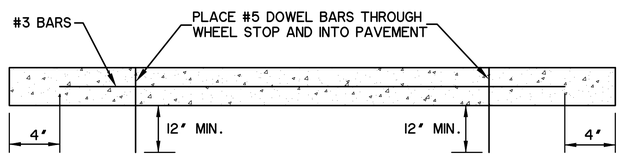
PLAN VIEW



CROSS SECTION



END VIEW



LONGITUDINAL SECTION (TYP)

ALL CONCRETE SHALL BE CLASS A CONCRETE IN ACCORDANCE WITH ITEM 364 OF THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION.

WHEEL STOP

N.T.S.

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

* THESE DETAILS ARE FOR ONSITE CURB RAMPS. ALL OTHER CURB RAMPS WITHIN PUBLIC RIGHT-OF-WAY WAY SHALL BE CONSTRUCTED IN COMPLIANCE WITH LOCAL CITY CODES AND DETAILS.

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com

NO.	DATE	DESCRIPTION	BY
1	3/21/22	ADDENDUM NO 001	
2	6/03/22	ADDENDUM NO. 003	
3	6/22/22	ADDENDUM NO. 004	
4	9/23/22	ASI 002	

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

PAVING DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
12/05/2022

LAST SHEET EDIT DATE 12/5/2022
WA# 21089

SHEET NO.
C303

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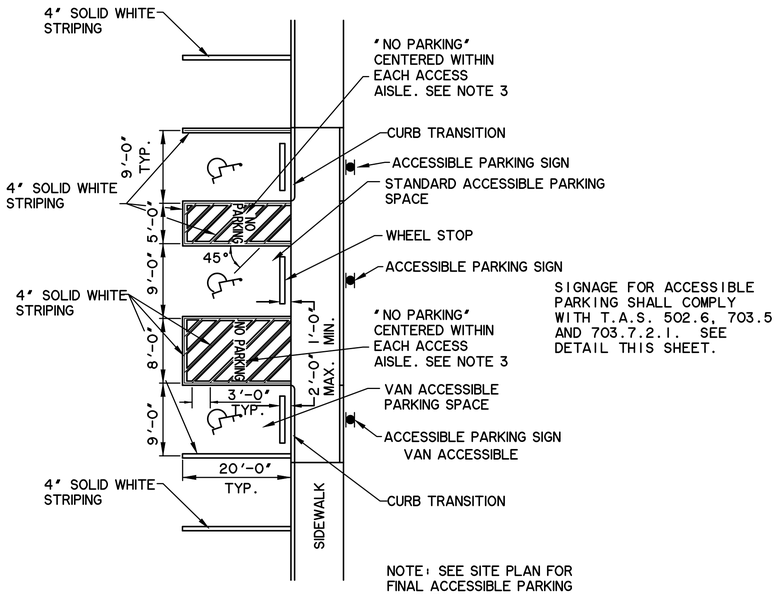
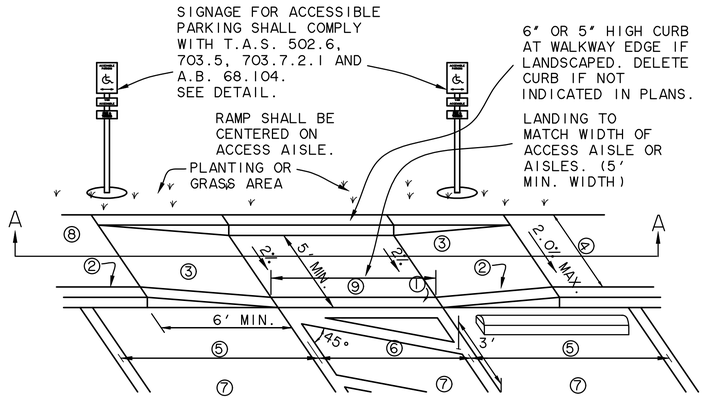


NOTES :

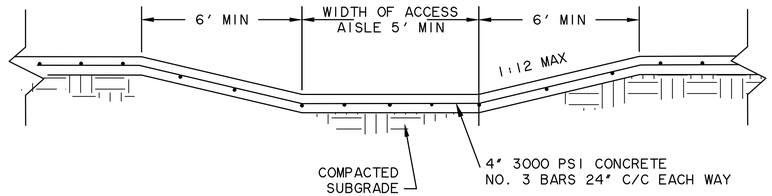
1. ACCESSIBLE PARKING SPACE DENOTED BY SYMBOL
2. STRIPING SHALL BE NON-REFLECTORIZED AND CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NCTCOG. DIVISION 800, ITEM 804.2.2.
3. 'NO PARKING' PAINTED IN ACCESS AISLE SHALL BE IN ALL CAPITAL LETTERS, WITH A MINIMUM LETTER HEIGHT OF 12" AND MINIMUM STROKE WIDTH OF 2".

90° PARKING

N.T.S.



TYPE-3 CURB RAMP



SECTION "A-A"

N.T.S.

* THESE DETAILS ARE FOR ONSITE CURB RAMPS. ALL OTHER CURB RAMPS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN COMPLIANCE WITH LOCAL CITY CODES AND DETAILS.

CURB RAMP DETAILS

N.T.S.

NOTES:

1. TOP OF CURB TO BE FLUSH WITH PAVEMENT.
2. TOP OF CURB TO BE FLUSH WITH TOP OF WALK.
3. CURB RAMP SLOPES SHALL NOT EXCEED 1:12 AND SHALL COMPLY WITH T.A.S. 406.2 AND 406.3.
4. 36" MIN. IF PARKING STALL LENGTH IS 20' AND CURB STOPS ARE PROVIDED 2' OFF CURB OR 60" MIN. IF PARKING STALL LENGTH IS 18' WITH NO CURB STOPS. IF DIMENSION IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12.
5. ACCESSIBLE PARKING SPACE SHALL BE 8' MIN. AND SHALL COMPLY WITH T.A.S. 502.2. OPTIONAL UNIVERSAL PARKING SPACE SHALL BE 11' WIDE AND COMPLY WITH T.A.S. FIGURE 502.2 AND 502.3.
6. ACCESS AISLE SHALL BE 5' WIDE FOR TYPICAL OR UNIVERSAL ACCESSIBLE PARKING. ACCESS AISLE SHALL BE 8' WIDE FOR VAN ACCESSIBLE PARKING.
7. ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS AND SHALL COMPLY WITH T.A.S. 502.4.
8. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5%) IS CONSIDERED A RAMP AND SHALL COMPLY WITH T.A.S. 405. THE CROSS SLOPE OF AN ACCESSIBLE ROUTE SHALL NEVER EXCEED 1:50 (2%).
9. LANDING DIMENSIONS AT TOP OF RAMP OR A CHANGE IN DIRECTION SHALL BE 5' X 5' MINIMUM.
10. GRADES IN ACCESIBILITY ROUTING INCLUDE CROSSING DRIVEWAYS, SHALL CONFORM TO TEXAS ACCESSIBILITY STANDARDS (T.A.S.), NOT TO EXCEED 5.0% ALONG TRAVEL PATH WITH NOT MORE THAN 2.0% CROSSFALL.

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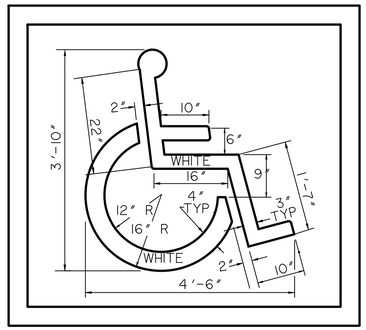

ACCESSIBLE PARKING SPACE SYMBOL

N.T.S.

* CONTRACTOR SHALL REFER TO FROST BANK'S SIGNAGE VENDOR DETAILS FOR ON-SITE ACCESSIBLE SIGNAGE. HANIDCAP-ACCESSIBLE SIGNAGE SHALL CONFORM TO TAS REGULATIONS

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

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

CITY _____ DATE _____

PREPARED BY:
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

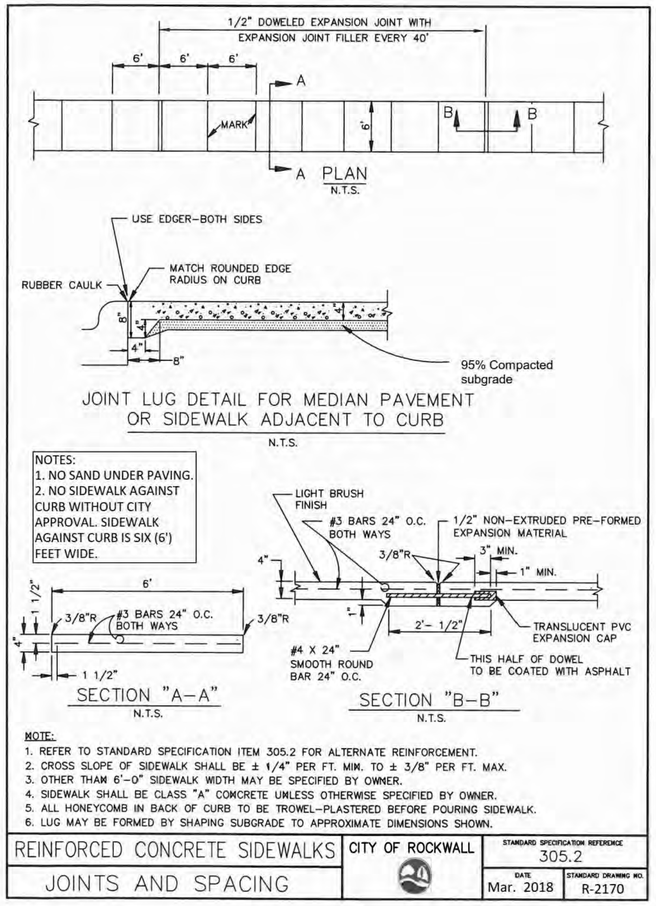
PAVING DETAILS

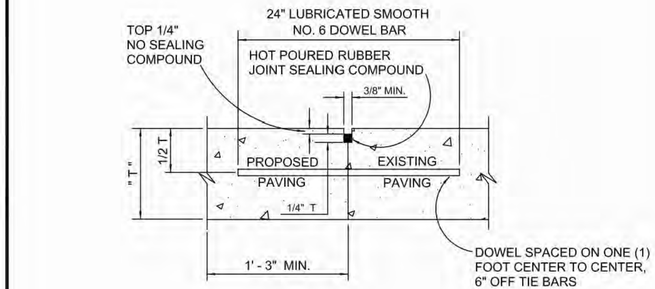
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/24/2022
WA# 21089

SHEET NO. C304

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 2/24/2022 4:10 PM SAVED BY: LUISG FILE: C304 PAVING DETAILS 21089.DWG





NOTES: T = PAVEMENT

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

LONGITUDINAL BUTT JOINT
NOT TO SCALE

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

RECORD DRAWING
December 06, 2022
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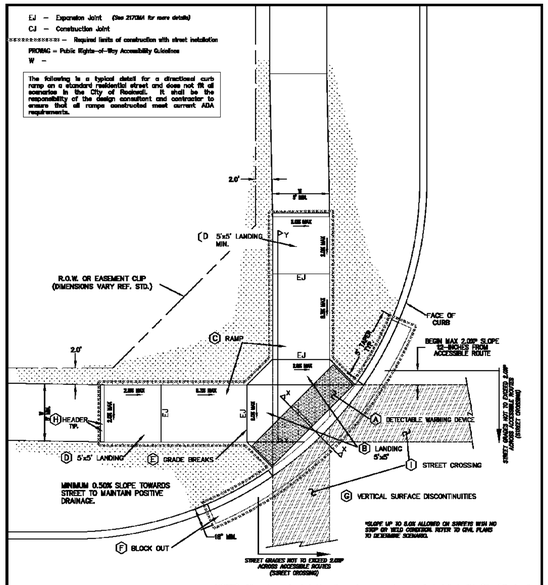
PAVING DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/21/2022
WA# 21089
SHEET NO. C305

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 2/21/2022 7:52 AM SAVED BY: ALEXH FILE: C305 PAVING DETAILS 21089.DWG



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.

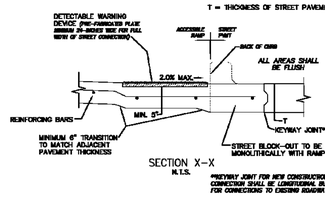
(I) Street crossings shall adhere to same guidelines as other accessible routes within public right-of-way, and shall be for the full width of the in-line accessible route. Cross slope shall not exceed 2%*. New street construction shall incorporate all ADA design requirements. It shall be the responsibility 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.*

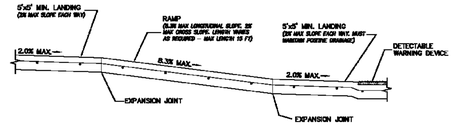
DIRECTIONAL CURB RAMP	CITY OF ROCKWALL	DATE	DRAWING NO.
		MAR. '17	R-2125B

T = THICKNESS OF STREET PAVEMENT



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

RECORD DRAWING
December 06, 2022
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CITY _____ DATE _____

PREPARED BY:
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ENGINEERS SURVEYORS LAND PLANNERS
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER

NWC OF HORIZON ROAD/FM 3097 &
ROCKWALL PARKWAY
ROCKWALL, TEXAS

PAVING DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT
DATE 2/24/2022
WA# 21089

SHEET NO.
C306

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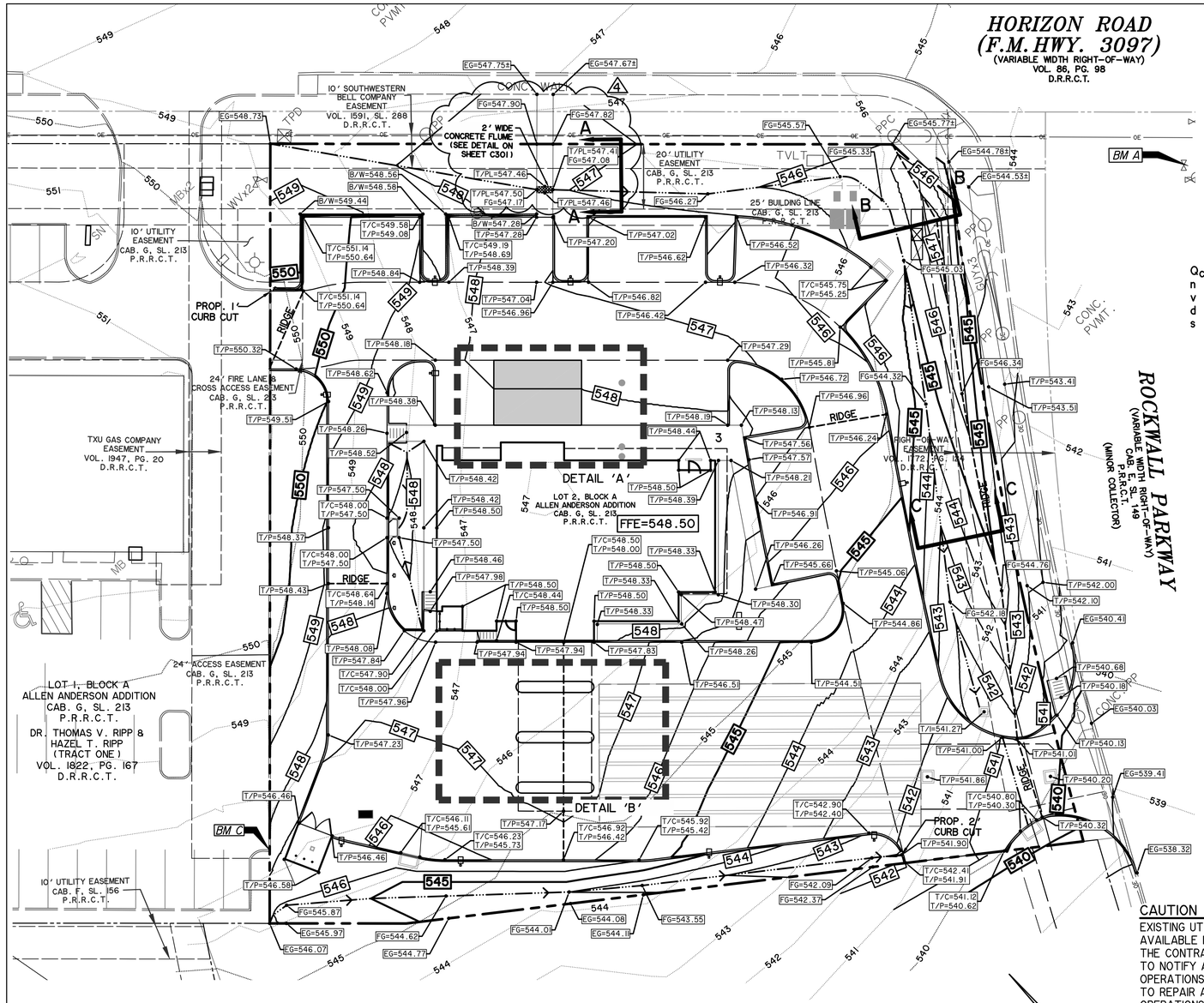

NOTE:
1. CONTRACTOR SHALL MATCH EXISTING GRADE AT SAWCUT LINES.

RECORD DRAWING
December 06, 2022
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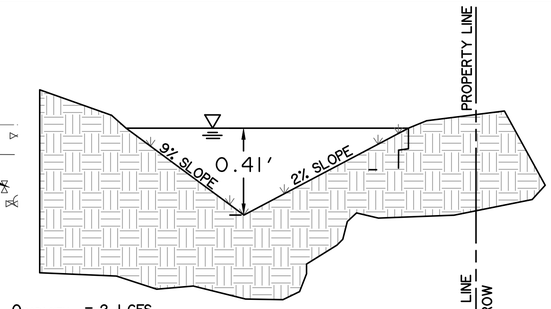
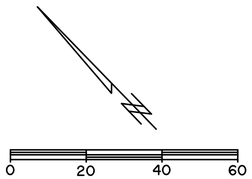
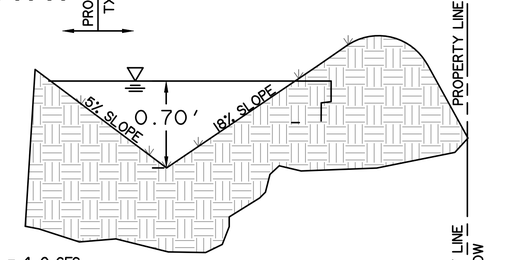


$Q_{CAPACITY}$ = 2.1 CFS
n = 0.15
v = 0.45 FPS
d = 0.41 FT
s = 1.7%

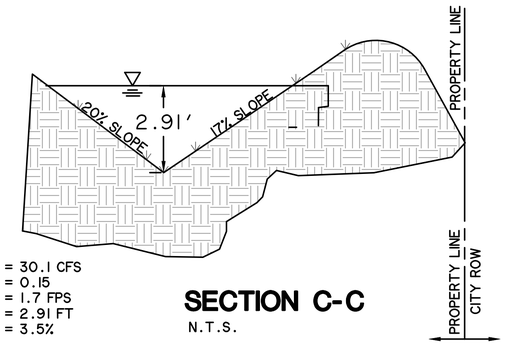
SECTION A-A
N.T.S.





$Q_{CAPACITY}$ = 4.0 CFS
n = 0.15
v = 0.60 FPS
d = 0.70 FT
s = 1.5%

SECTION B-B
N.T.S.



$Q_{CAPACITY}$ = 30.1 CFS
n = 0.15
v = 1.7 FPS
d = 2.91 FT
s = 3.5%

SECTION C-C
N.T.S.

CAUTION ! !

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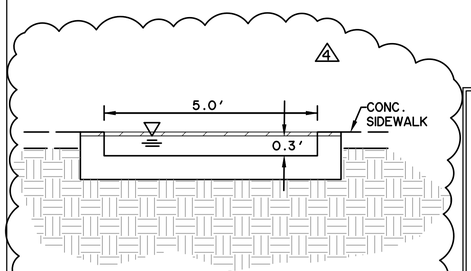


$Q_{CAPACITY}$ = 3.2CFS
v = 1.9 FPS
d = 0.33 FT
s = 1.8%

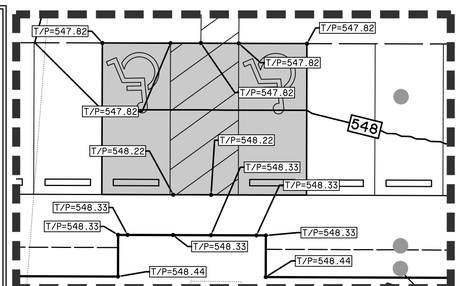
CONCRETE FLUME SECTION
N.T.S.

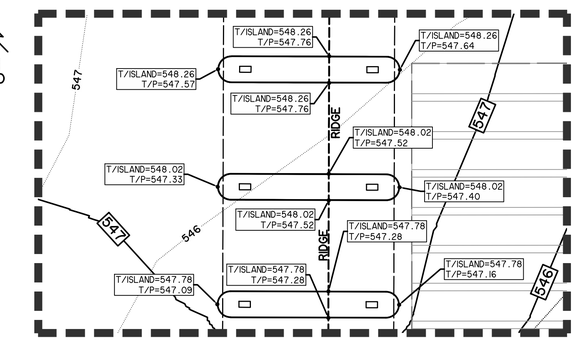
* BENCHMARKS *

BM A – AN 'X' CUT IN CONCRETE ON THE BACK OF SIDEWALK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 543.51 FT.

BM B – AN 'X' CUT IN CONCRETE ON THE BACK OF A STORM DRAIN CURB INLET APPROXIMATELY 450 FEET SOUTH OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 536.29 FT.

BM C – AN 'X' CUT IN CONCRETE ON THE BACK OF CURB IN A PARKING LOT APPROXIMATELY 260 FEET NORTHWEST AND 265 FEET SOUTHEAST OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 547.84 FT.





GRADING PLAN LEGEND

537	EXISTING CONTOUR
537	PROPOSED CONTOUR
T/C = 999.99	PROPOSED SPOT ELEV.
	PROPOSED SWALE & DIRECTION OF FLOW
	PROPOSED RIDGE
T/C	TOP OF CURB
T/P	TOP OF PAVEMENT
T/W	TOP OF RETAINING WALL
B/W	BOTTOM OF RETAINING WALL
FG	FINISHED GRADE
FF	FINISHED FLOOR ELEVATION
EG	EXISTING GRADE
T/I	TOP OF INLET
T/PL	TOP OF GALVANIZED PLATE
T/ISLAND	TOP OF ISLAND
	CONTRACTOR SHALL ENSURE THAT GRADES IN THIS AREA DO NOT EXCEED 2% SLOPE IN ANY DIRECTION

NO.	DATE	DESCRIPTION	BY
1	3/21/22	ADDENDUM NO 001	
2	6/03/22	ADDENDUM NO. 003	
3	6/22/22	ADDENDUM NO. 004	
4	9/15/22	PRIVATE SIDEWALK FLUME	

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.wierassociates.com

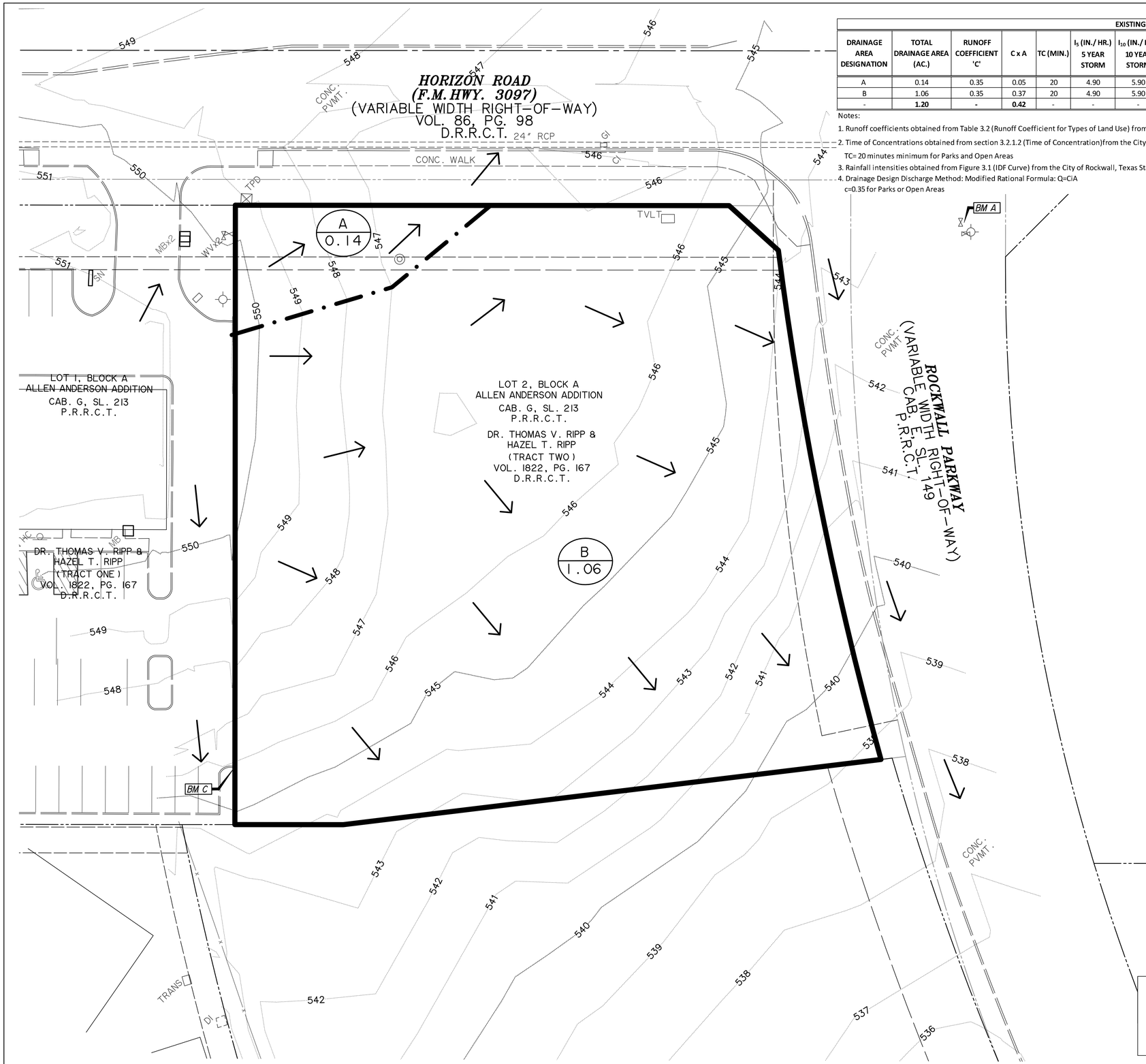
FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

GRADING PLAN

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
9/15/2022

LAST SHEET EDIT DATE 9/15/2022
WA# 21089
SHEET NO. C401

PRINTED: 9/15/2022 STB FILE: WIER-GRADING.STB LAST SAVED: 9/15/2022 1:25 PM SAVED BY: LUIS6 FILE: C401 GRADING PLAN 21089.DWG



EXISTING DRAINAGE AREA CALCULATIONS													
DRAINAGE AREA DESIGNATION	TOTAL DRAINAGE AREA (AC.)	RUNOFF COEFFICIENT 'C'	C x A	TC (MIN.)	I_5 (IN./ HR.) 5 YEAR STORM	I_{10} (IN./ HR.) 10 YEAR STORM	I_{25} (IN./ HR.) 25 YEAR STORM	I_{100} (IN./ HR.) 100 YEAR STORM	Q_5 (CFS) 5 YEAR STORM	Q_{10} (CFS) 10 YEAR STORM	Q_{25} (CFS) 25 YEAR STORM	Q_{100} (CFS) 100 YEAR STORM	NOTES
A	0.14	0.35	0.05	20	4.90	5.90	6.60	8.30	0.2	0.3	0.3	0.4	DRAINS TO F.M. HWY 3097
B	1.06	0.35	0.37	20	4.90	5.90	6.60	8.30	1.8	2.2	2.4	3.1	DRAINS TO ROCKWALL PARKWAY
-	**1.20**	-	**0.42**	-	-	-	-	-	**2.0**	**2.5**	**2.7**	**3.5**	

Notes:
1. Runoff coefficients obtained from Table 3.2 (Runoff Coefficient for Types of Land Use) from the City of Rockwall, Texas Standards of Design and Construction, 2019.
2. Time of Concentrations obtained from section 3.2.1.2 (Time of Concentration)from the City of Rockwall, Texas Standards of Design and Construction, 2019.
   TC= 20 minutes minimum for Parks and Open Areas
3. Rainfall intensities obtained from Figure 3.1 (IDF Curve) from the City of Rockwall, Texas Standards of Design and Construction, 2019.
4. Drainage Design Discharge Method: Modified Rational Formula: Q=CiA
   c=0.35 for Parks or Open Areas

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

CITY _____ DATE _____

0 20 40 60

LEGEND

- A-1 / 2.00 — DRAINAGE AREA DESIGNATION / DRAINAGE AREA (ACRES)
- WATERSHED LIMITS
- MAJOR DRAINAGE AREA DIVIDE
- MAJOR DRAINAGE AREA SUB-DIVIDE
- FLOW DIRECTION ARROW

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

*** BENCHMARKS ***

BM A – AN "X" CUT IN CONCRETE ON THE BACK OF SIDEWALK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 543.51 FT.

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ELEVATION = 547.84 FT.

PREPARED BY:
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Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER

NWC OF HORIZON ROAD/FM 3097 &
ROCKWALL PARKWAY
ROCKWALL, TEXAS

EXISTING DRAINAGE AREA MAP

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE
WA# 21089
SHEET NO. C501

LEGEND

- A-1 / 2.00 — DRAINAGE AREA DESIGNATION / DRAINAGE AREA (ACRES)
- WATERSHED LIMITS
- MAJOR DRAINAGE AREA DIVIDE
- MAJOR DRAINAGE AREA SUB-DIVIDE
- FLOW DIRECTION ARROW
- PROPOSED DETENTION POND/ UNDERGROUND DETENTION SYSTEM

PROPOSED DRAINAGE AREA CALCULATIONS

DRAINAGE AREA DESIGNATION	TOTAL DRAINAGE AREA (AC.)	COMMERCIAL RUNOFF COEFFICIENT 'C'	C x A	TC (MIN.)	I_5 (IN./ HR.) 5 YEAR STORM	I_{10} (IN./ HR.) 10 YEAR STORM	I_{25} (IN./ HR.) 25 YEAR STORM	I_{100} (IN./ HR.) 100 YEAR STORM	Q_5 (CFS) 5 YEAR STORM	Q_{10} (CFS) 10 YEAR STORM	Q_{25} (CFS) 25 YEAR STORM	Q_{100} (CFS) 100 YEAR STORM	NOTES
A-1	0.27	0.9	0.24	10	6.10	7.10	8.30	9.8	1.5	1.7	2.0	2.4	DRAIN TO CURB INLET
A-2	0.07	0.9	0.06	10	6.10	7.10	8.30	9.8	0.4	0.4	0.5	0.6	DRAIN TO CURB INLET
A-3	0.16	0.9	0.14	10	6.10	7.10	8.30	9.8	0.9	1.0	1.2	1.4	DRAIN TO CURB INLET
A-4	0.36	0.9	0.32	10	6.10	7.10	8.30	9.8	2.0	2.3	2.7	3.1	DRAIN TO CURB INLET
A-5	0.20	0.9	0.18	10	6.10	7.10	8.30	9.8	1.1	1.3	1.5	1.8	DRAIN TO DROP INLET
R	0.10	0.9	0.09	10	6.10	7.10	8.30	9.8	0.5	0.6	0.7	0.9	ROOF DRAINS
-	**1.16**	-	**0.94**	-	-	-	-	-	**6.4**	**7.3**	**8.6**	**10.2**	
OS-1	0.04	0.9	0.04	10	6.10	7.10	8.30	9.8	0.2	0.3	0.3	0.4	DRAINS TO ROCKWALL PARKWAY
-	**0.04**	-	**0.30**	-	-	-	-	-	**0.2**	**0.3**	**0.3**	**0.4**	

Notes:
1. Runoff coefficients obtained from Table 3.2 (Runoff Coefficient for Types of Land Use) from the City of Rockwall, Texas Standards of Design and Construction, 2019.
2. Time of Concentrations obtained from section 3.2.1.2 (Time of Concentration)from the City of Rockwall, Texas Standards of Design and Construction, 2019.
   TC= 10 minutes minimum for Commercial Business
3. Rainfall intensities obtained from Figure 3.1 (IDF Curve) from the City of Rockwall, Texas Standards of Design and Construction, 2019.
4. Drainage Design Discharge Method: Modified Rational Formula: Q=CiA
   c=0.90 for Commercial Business

*** BENCHMARKS ***

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ELEVATION = 547.84 FT.

RECORD DRAWING
December 06, 2022
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RELEASED FOR CONSTRUCTION
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CITY _____ DATE _____

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NO.	DESCRIPTION	BY

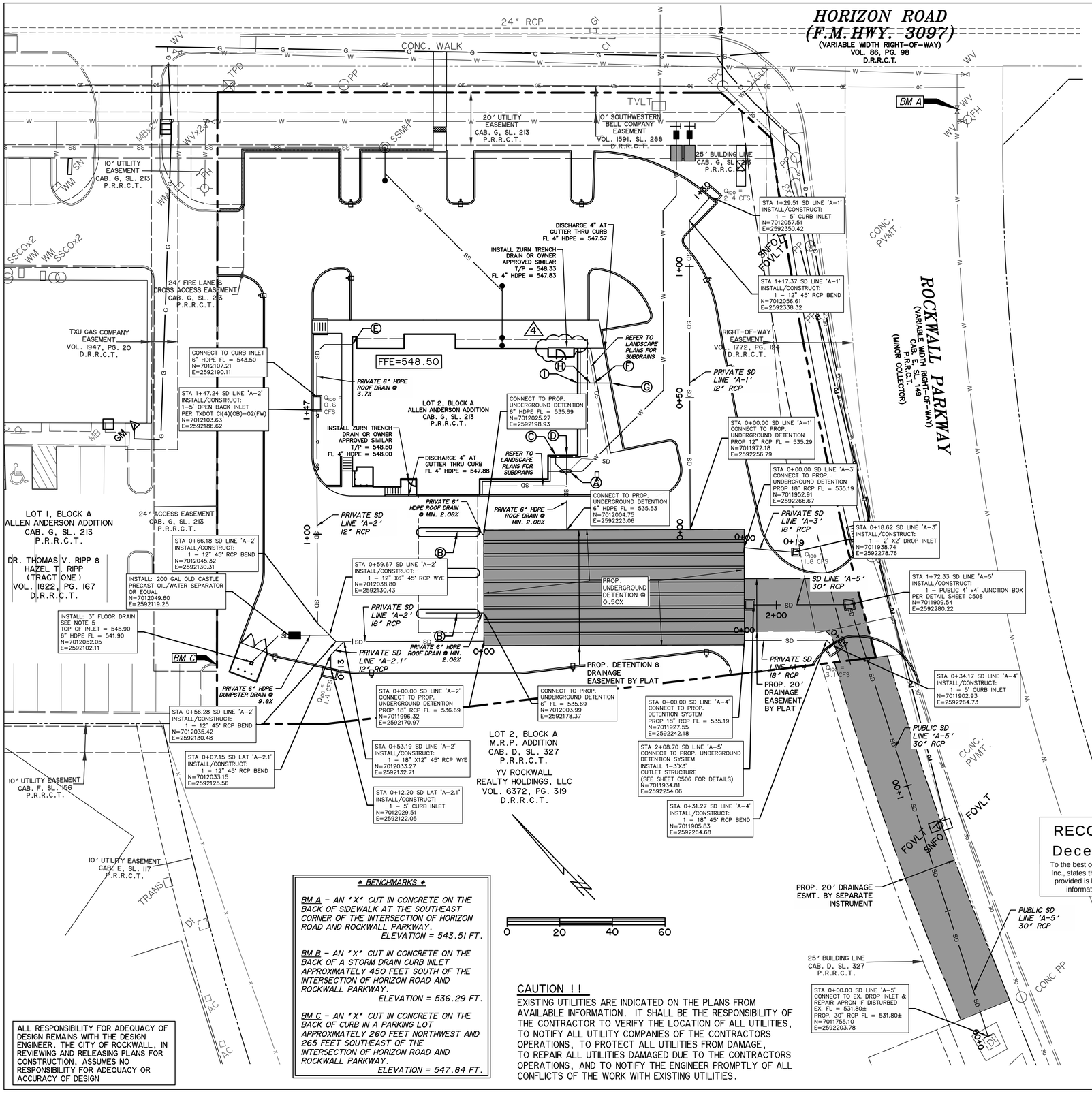
FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

PROPOSED DRAINAGE AREA MAP

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/23/2022
WA# 21089
SHEET NO. C502

PRINTED: 4/28/2022 STB FILE: WIER-DAMAP.STB LAST SAVED: 2/23/2022 3:42 PM SAVED BY: LUISG FILE: C502 PROP DRAINAGE AREA MAP 21089.DWG



PRIVATE

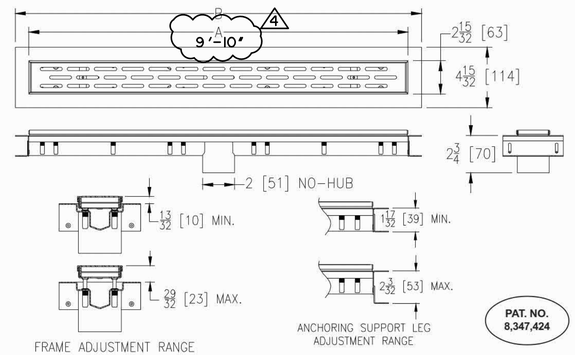
ZS880

STAINLESS STEEL
LINEAR SHOWER DRAIN

SPECIFICATION SHEET

TAG _____

Dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PAT. NO. 8,347,424

Product Designation	Dimensions In Inches [mm] A	B	Approx. Wt. Lbs. [kg]	Grate Open Area Sq. In. [cm²]
-12	12 [305]	14 [356]	2.9 [1.3]	6 [38]
-28	28 [711]	30 [762]	5.4 [2.5]	15 [97]
-32	32 [813]	34 [864]	5.9 [2.7]	18 [116]
-36	36 [914]	38 [965]	6.4 [2.9]	20 [129]
-40	40 [1016]	42 [1069]	7.2 [3.3]	22 [142]
-48	48 [1219]	50 [1270]	8.4 [3.8]	27 [174]
→ -60	60 [1524]	62 [1575]	10.3 [4.7]	34 [219]
-72	72 [1829]	74 [1880]	12.4 [5.6]	41 [265]

ENGINEERING SPECIFICATION: ZS880
All Type 304 (CF8) Fabricated Stainless Steel Linear Shower Drain. Complete with vertically adjustable anchoring support legs, anti-ponding V-shaped channel with 2" [51mm] No-Hub center outlet, adjustable secured leveling frame with built-in tile edge, integral membrane flange for glue on waterproofing membrane, and secured, light-duty, slotted heel-proof grate. Drain is designed for installation in a minimum 2" [51mm] concrete pour and can be adjusted to accommodate 1/4" [6mm] and 3/8" [10mm] finished tile thicknesses.

OPTIONS (Check/specify appropriate options)

PREFIXES
____ ZS All Type 304 (CF8) Stainless Steel*
____ ZR All Type 304 (CF8) Stainless Steel w/ Oil-Rubbed Bronze Finish

GRATE OPTIONS
____ -BW Basket Weave Grate
____ -DB Decorative Block Grate
____ -SG Serenity Grate
____ -TG Tile In-Lay Grate
____ -WG Wave Grate

SUFFIXES
____ -2 Two Bottom Outlets (2 [51] No-Hub, Not Available on Size -12)
____ -2IP 2 [51] Female IP Threaded Outlet
____ -3 Three Bottom Outlets (2 [51] No-Hub, Not Available on Size -12)
____ -EO End Bottom Outlet (2 [51] No-Hub, Not Available on Size -12)
____ -FS Outlet Filter Screen
____ -KC Clamp Collar on Anchor Flange
____ -LB Lower Body With Membrane Clamp Collar
____ -SO Side Outlet (2 [51] No-Hub), Not available with -LB Option

* Regulary furnished unless otherwise specified

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. G
Date: 01/02/19
C.N. No. 140951
Prod. | Dwg. No. ZS880

(A) MAINTAIN 2' VERTICAL SEPARATION AT UTILITY CROSSINGS.

(B) 4" ROOF DRAIN (REFER TO MEP PLANS)

(C) CONNECT TO ROOF DRAINS (REFER TO MEP PLANS) FL = 543.67

(D) CONNECT TO ROOF DRAINS (REFER TO MEP PLANS) FL = 543.67

(E) CONNECT TO ROOF DRAINS (REFER TO MEP PLANS) FL = 544.94

(F) CONTRACTOR SHALL VERIFY LANDSCAPE DRAINS & OVERFLOW ROOF DRAIN DO NOT CONFLICT.

(G) DISCHARGE 4" OVERFLOW ROOF DRAIN AT GUTTER THRU CURB. FL 4" = 546.91

(H) PROP. 4" OVERFLOW ROOF DRAIN @ 2%

(I) CONNECT TO OVERFLOW ROOF DRAIN FL 4" = 547.17

RECORD DRAWING
December 06, 2022
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NOTES:
1. ALL RCP IS CLASS III UNLESS NOTED OTHERWISE.
2. REFER TO CITY OF ROCKWALL STD. DRAWINGS R-6020A - R6020E FOR 5' CURB INLET DETAIL
3. REFER TO CITY OF ROCKWALL STD. DRAWING R-6040 FOR DROP INLET DETAIL.
4. REFER TO CONTECH DETAILS FOR PIPE AND BACKFILL DETAILS
5. DUMPSTER ENCLOSURE DRAIN SHALL BE J.R. SMITH S2280C03 OR SIMILAR. CONTRACTOR SHALL COORDINATE INSTALLATION WITH DUMPSTER ENCLOSURE DETAILS.
6. CONTRACTOR SHALL VERIFY FLOWLINE OF EXISTING DROP INLET AND NOTIFY ENGINEER IF ANY DISCREPANCIES.

BENCHMARKS

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NO.	DATE	DESCRIPTION	BY
1	3/21/22	ADDENDUM NO 001	
2	6/03/22	ADDENDUM NO. 003	
3	6/22/22	ADDENDUM NO. 004	
4	9/23/22	ASI 002	

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

STORM DRAIN PLAN

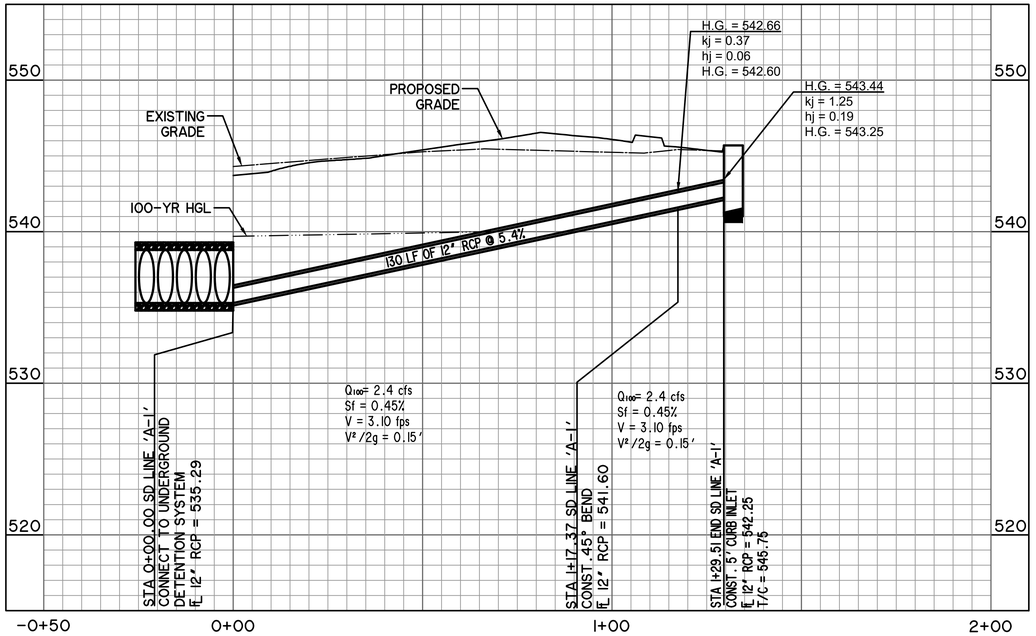
STATE OF TEXAS
PRIYA ACHARYA
110148
LICENSED PROFESSIONAL ENGINEER
9/28/2022

LAST SHEET EDIT DATE 9/28/2022
WA# 21089

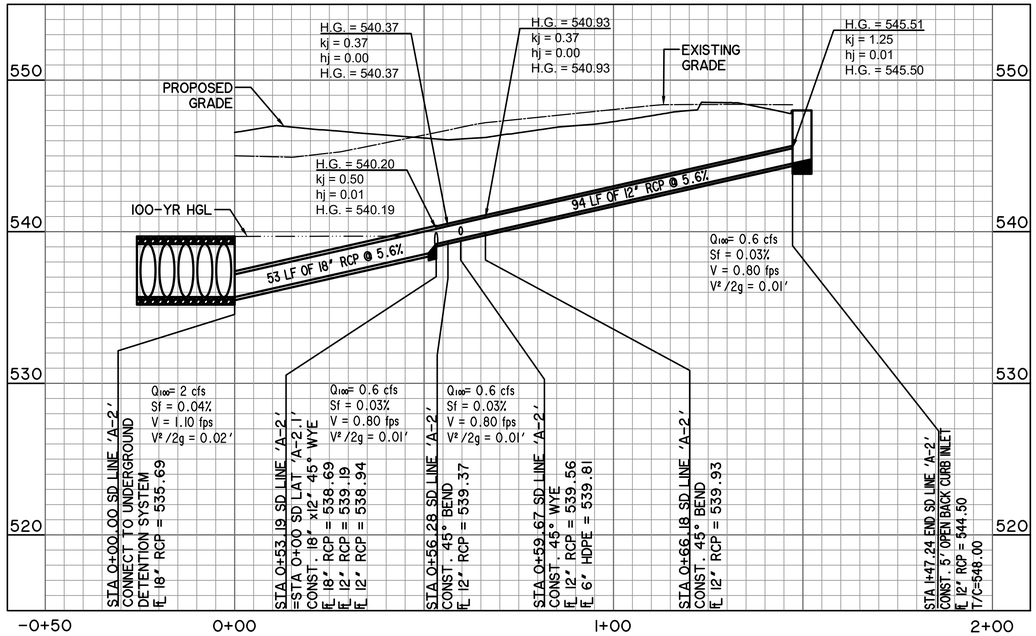
SHEET NO. C503

PRINTED: 9/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 9/28/2022 8:57 AM SAVED BY: LUISG FILE: C503 STORM DRAIN PLAN.DWG

PRIVATE SD LINE 'A-1'



PRIVATE SD LINE 'A-2'



RECORD DRAWING
December 06, 2022
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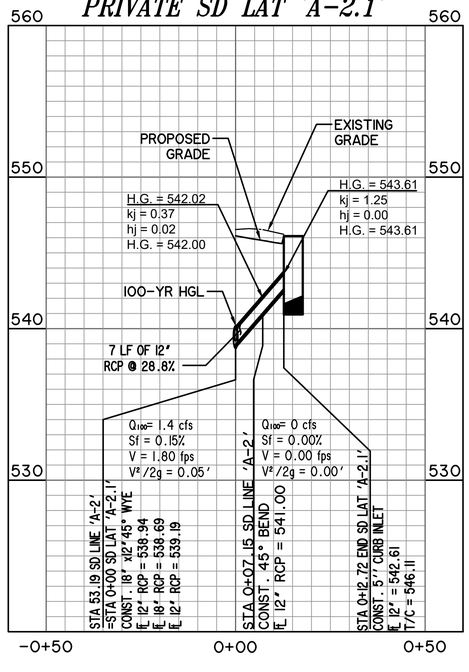
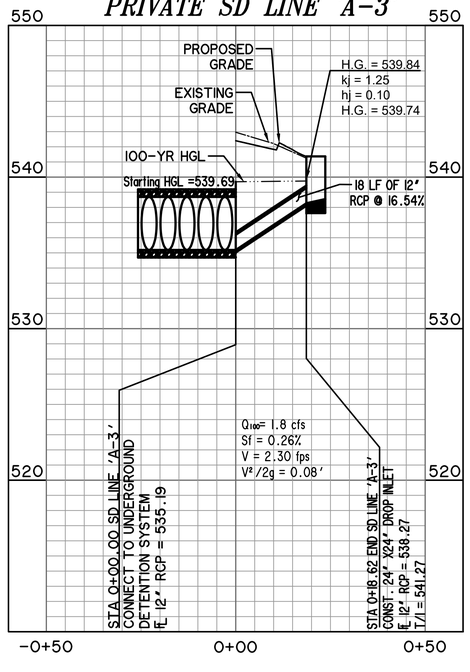
VERTICAL 0 5 10 15
HORIZONTAL 0 20 40 60

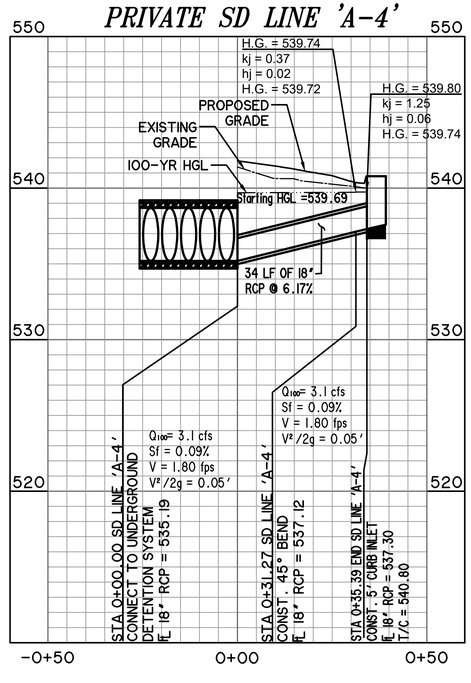
PRIVATE SD LAT 'A-2.1'



PRIVATE SD LINE 'A-3'



PRIVATE SD LINE 'A-4'



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

CITY _____ DATE _____

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DESCRIPTION	BY

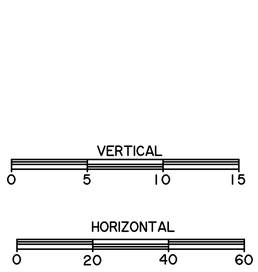
FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

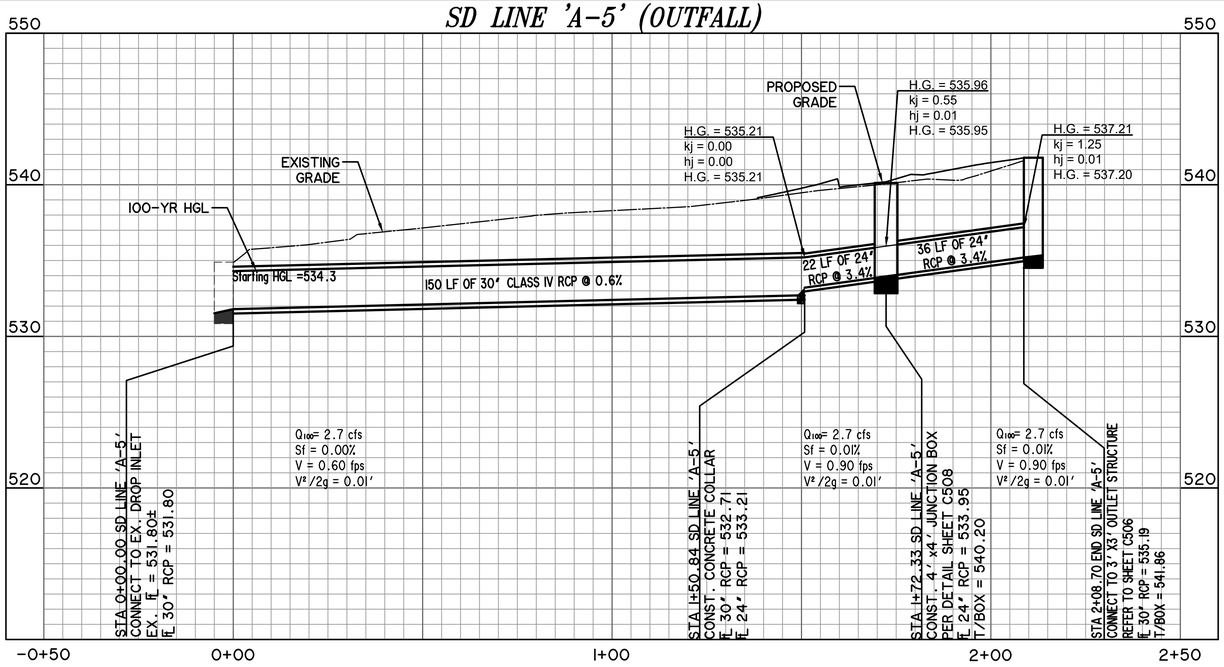
STORM DRAIN PROFILES

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 3/30/2022
WA# 21089

SHEET NO.
C504





STORM DRAIN CALCULATIONS

FROM	TO	LENGTH (FT)	CxA	INLET TIME (min.)	TOTAL INTERCEPTED CxA	TIME AT UPSTREAM OF REACH (min)	DESIGN STORM FREQUENCY (yrs)	RAINFALL INTENSITY (in/hr)	INTERCEPTED FLOW (cfs)	STORM DRAIN DIAMETER (in)	VELOCITY (ft/s)	SLOPE OF FRICTION GRADIENT (ft/ft)	STRUCTURE LOSS COEFFICIENT	STRUCTURE LOSS AT UPSTREAM OF REACH	FLOW TIME IN DRAIN (min)	TIME AT DOWNSTREAM OF REACH (min)	H.G. AT UPSTREAM OF REACH (ft)	REMARKS
SD LINE 'A-1'																		
1+29.51	1+17.37	12.14	0.24	10	0.24	10	100	9.8	2.4	12	3.1	0.0045	1.25	0.19	0	10	543.44	
1+17.37	0+00.00	117.37	0	10	0.24	10	100	9.8	2.4	12	3.1	0.0045	0.37	0.06	0.2	10.2	542.66	
SD LINE 'A-2'																		
1+47.24	0+66.18	81.06	0.06	10	0.06	10	100	9.8	0.6	12	0.8	0.0003	1.25	0.01	0.2	10.2	545.51	
0+66.18	0+56.28	9.9	0	0	0.06	10.2	100	9.76	0.6	12	0.8	0.0003	0.37	0	0	10.2	540.93	
0+56.28	0+53.19	3.09	0	0	0.06	10.2	100	9.76	0.6	12	0.8	0.0003	0.37	0	0	10.2	540.37	
0+53.19	0+00.00	53.19	0	0	0.2	10.2	100	9.76	2	18	1.1	0.0004	0.5	0.01	0.1	10.3	540.2	
SD LAT 'A-2.1'																		
0+12.72	0+07.15	5.57	0	0	0	0	100	0	0	12	0	0	1.25	0	∞	0	543.61	
0+07.15	0+53.19	7.15	0.14	10	0.14	10	100	9.8	1.4	12	1.8	0.0015	0.37	0.02	0	10	542.02	
SD LINE 'A-3'																		
0+18.62	0+00.00	18.62	0.18	10	0.18	10	100	9.8	1.8	12	2.3	0.0026	1.25	0.1	0.1	10.1	539.84	
SD LINE 'A-4'																		
0+34.17	0+31.27	2.9	0.32	10	0.32	10	100	9.8	3.1	18	1.8	0.0009	1.25	0.06	0	10	539.8	
0+31.27	0+00.00	31.27	0	0	0.32	10	100	9.8	3.1	18	1.8	0.0009	0.37	0.02	0.3	10.3	539.74	
SD LINE 'A-5' OUTFALL																		
2+08.70	1+72.33	36.37	0	10	0	10	100	0	2.7	24	0.9	0.0001	1.25	0.01	0.1	10.1	537.21	
1+72.33	1+50.84	21.49	0	0	0	10.1	100	0	2.7	24	0.9	0.0001	0.55	0.01	0.1	10.2	535.96	
1+50.84	0+00.00	150.84	0	0	0	10.2	100	0	2.7	30	0.6	0	0	0	0.7	10.9	535.21	

INLET CALCS NOTES:
1. Drainage Area and Inlet 3-3.0 pick up runoff from Off-Site DA 3A
2. Column 16, Manning's n obtained from Table 3.4, Sheet Flow n Values from Rockwall Standards of Design & Construction, October 2016
3. Column 20, a = 0.5' from Figure 3.3
4. Column 21, W = 2.0 ft from Equation 3.18
5. Column 22, permissible spread width from Section 3.2.7.6
6. Orifice Equation: 0.5A = Q/[C(2gd)0.5]
   0.5A = 50% clogging factor
   Orifice Coefficient C = 0.67

INLET CALCULATIONS

	Location				Area Runoff						Upstream Bypass C*A	Total Gutter Flow Q_a	Gutter Flow										
Inlet ID	Alignment	Station	Offset	Design Frequency	C	Area ID	Time of Conc T_c	Intensity I_{100}	Area A	Runoff Q_{100}			Thoroughfare Type	On-Grade/ Sag	Manning's n	Long Slope S	Cross Type	Cross Slope S_x	Depth a	Width W	(allow) T_{allow}	(actual) T_{actual}	(allow) y_{allow}	(actual) y_{actual}	Max Allowable Flow based on Max. Allowable Ponding Width $Q_{allow\,gutter}$
				yr			*min*	*in/hr*	*acres*	*cfs*	*cfs*	**cfs**				*ft/ft*		*ft/ft*	*ft*	*ft*	*ft*	*ft*	*ft*	*ft*	*cfs*
1	2	3	4	5	6	7	8	9	10	11	12	**13**	14	15	16	17	18	19	20	21	22	23	24	25	26
A-1	SD LINE A-1	1+29.51	0	100	0.90	A-1	10	9.8	0.27	2.40	0	**2.38**	Parking	Sag	0.011	0.018	N/A	0.015	0.5	2	33.3	33.3	0.5	0.5	45.1
A-2	SD LINE A-2	1+49.24	0	100	0.90	A-2	10	9.8	0.07	0.60	0	**0.62**	Parking	Sag	0.011	0.045	N/A	0.048	0.5	2	10.4	10.4	0.5	0.5	22.3
A-3	SD LAT A-2.1	0+12.72	0	100	0.90	A-3	10	9.8	0.16	1.40	0	**1.41**	Parking	Sag	0.011	0.026	N/A	0.032	0.5	2	15.6	15.6	0.5	0.5	25.4
A-4	SD LINE A-4	0+35.39	0	100	0.90	A-4	10	9.8	0.36	3.10	0	**3.18**	Parking	Sag	0.011	0.043	N/A	0.056	0.5	2	8.9	8.9	0.5	0.5	18.7
A-5	SD LINE A-5	0+18.62	0	100	0.90	A-5	10	9.8	0.20	1.80	0	**1.76**	Parking	Sag	0.011	0.035	N/A	0.149	0.5	2	3.4	3.4	0.5	0.5	6.3

Inlets Capacity													Inlets Bypass			
Area	Wetted Perimeter	Area	Wetted Perimeter	Depression Section K_w	Section Beyond Depression K_o	Ratio of Depression flow to Total Flow E_o	Equivalent Cross-Slope, S_e	**Required $L_{Req'd}$ for Curb & Drop Inlets**	**Required $A_{Req'd}$ for Grate Inlet, including 50% clog**	**Actual L_{actual} for Curb & Drop Inlets**	**Actual A_{actual} for Grate Inlet**	Inlet Capacity Q_c	Flow Q_{bypass}	C*A	To Inlet ID	Remarks
ft^2	*ft*	ft^2	*ft*	*cfs*	*cfs*		*ft/ft*	**ft**	in^2	**ft**	in^2	*cfs*	*cfs*			
27	28	29	30	31	32	33	34	**35**	N/A	**36**	N/A	37	38	39	40	41
SAG/LOW POINT INLET (CURB)								**<0.5**	N/A	**5**	N/A	7.0	0	0	N/A	5' CURB INLET
SAG/LOW POINT INLET (CURB)								**<0.5**	N/A	**5**	N/A	7.0	0	0	N/A	5' CURB INLET
SAG/LOW POINT INLET (CURB)								**<0.5**	N/A	**5**	N/A	7.0	0	0	N/A	5' CURB INLET
SAG/LOW POINT INLET (CURB)								**0.3**	N/A	**5**	N/A	7.0	0	0	N/A	5' CURB INLET
SAG/LOW POINT INLET (DROP)								**<0.5**	N/A	**8**	N/A	9.4	0	0	N/A	2' x 2' DROP INLET

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

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CITY _____ DATE _____

PREPARED BY:
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ENGINEERS SURVEYORS LAND PLANNERS
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

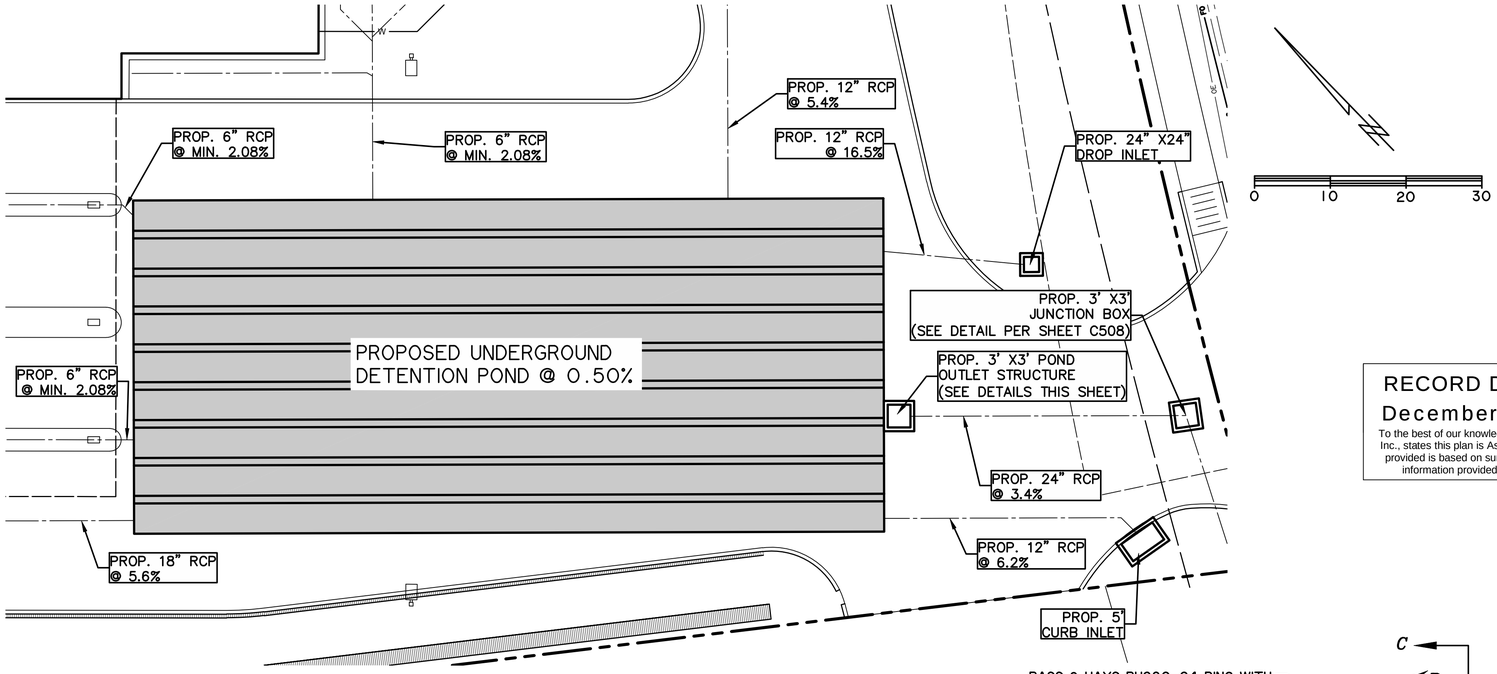
STORM DRAIN PROFILES

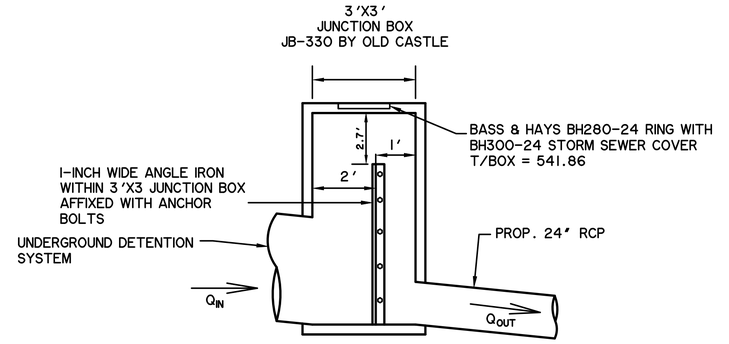
STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE
WA# 21089

SHEET NO. C505

PRINTED: 4/28/2022 STB FILE: WIER-STORM DRAIN.STB LAST SAVED: 3/30/2022 3:59 PM SAVED BY: LUBG FILE: C505 STORM DRAIN PROFILES.DWG





SECTION B-B
OUTLET STRUCTURE

NTS

RECORD DRAWING
December 06, 2022

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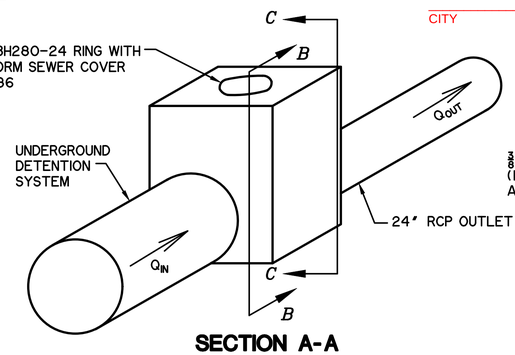
CITY _____ DATE _____

5 Year		
W.S.E.L.	537.59	ft
Q(existing)	2.0	cfs
Q(developed)	6.6	cfs
Q(allowed)	1.6	cfs
Q(release)	1.6	cfs
CHECK	GOOD SOLUTION	

25 Year		
W.S.E.L.	538.39	ft
Q(existing)	2.7	cfs
Q(developed)	8.9	cfs
Q(allowed)	2.1	cfs
Q(release)	2.0	cfs
CHECK	GOOD SOLUTION	

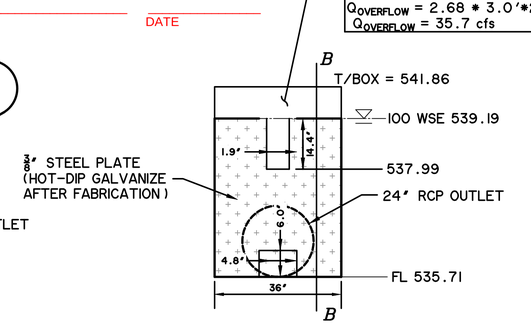
10 Year		
W.S.E.L.	237.79	ft
Q(existing)	2.5	cfs
Q(developed)	7.6	cfs
Q(allowed)	1.9	cfs
Q(release)	1.7	cfs
CHECK	GOOD SOLUTION	

100 Year		
W.S.E.L.	539.19	ft
Q(existing)	3.5	cfs
Q(developed)	10.6	cfs
Q(allowed)	2.7	cfs
Q(release)	2.7	cfs
CHECK	GOOD SOLUTION	



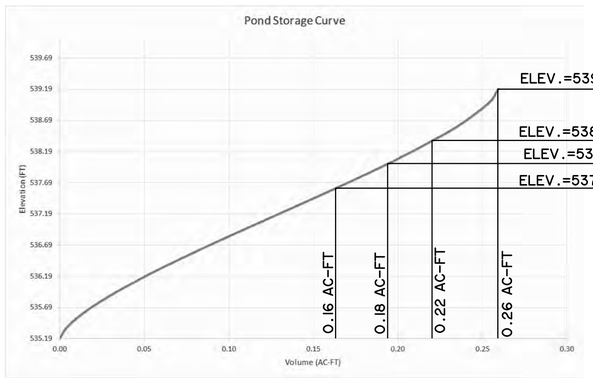
SECTION A-A
OUTLET STRUCTURE

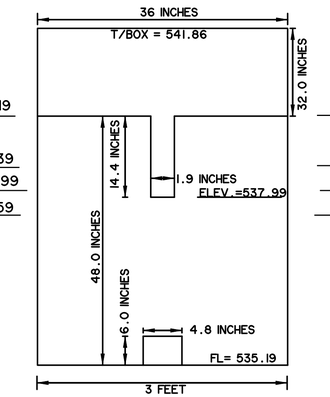
NTS



SECTION C-C
OUTLET STRUCTURE: METAL PLATE WEIR

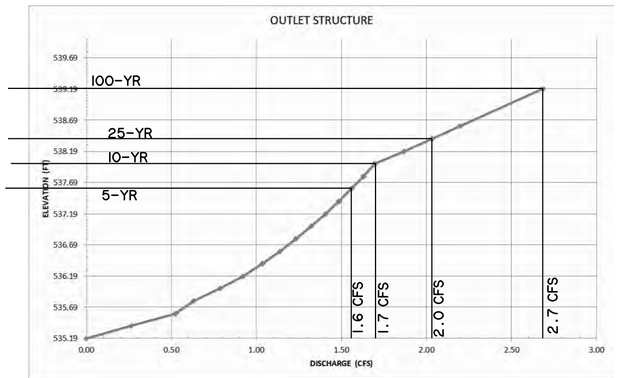
NTS





3' X 3' OUTLET STRUCTURE

NTS



** BENCHMARKS **

BM A – AN 'X' CUT IN CONCRETE ON THE BACK OF SIDEWALK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 543.51 FT.

BM B – AN 'X' CUT IN CONCRETE ON THE BACK OF A STORM DRAIN CURB INLET APPROXIMATELY 450 FEET SOUTH OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 536.29 FT.

BM C – AN 'X' CUT IN CONCRETE ON THE BACK OF CURB IN A PARKING LOT APPROXIMATELY 260 FEET NORTHWEST AND 265 FEET SOUTHEAST OF THE INTERSECTION OF HORIZON ROAD AND ROCKWALL PARKWAY.
ELEVATION = 547.84 FT.

LEGEND

560	EXIST. CONTOUR
560	PROP. CONTOUR
	ACCESSIBLE SPACE
##.## XX	PROP. SPOT ELEV.
##.## TP	PROP. TOP OF PAVEMENT ELEVATION
	DETENTION POND FOOTPRINT

UNDERGROUND DETENTION SYSTEM SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY PAVING INSTALLATION INCLUDING SLAB.

CAUTION ! !

EXISTING UTILITIES ARE INDICATED ON THE PLANS FROM AVAILABLE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES, TO NOTIFY ALL UTILITY COMPANIES OF THE CONTRACTORS OPERATIONS, TO PROTECT ALL UTILITIES FROM DAMAGE, TO REPAIR ALL UTILITIES DAMAGED DUE TO THE CONTRACTORS OPERATIONS, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING UTILITIES.

PREPARED BY:
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ENGINEERS SURVEYORS LAND PLANNERS
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

DETENTION POND PLAN

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 3/11/2022
WA# 21089

SHEET NO. C506

PRINTED: 4/28/2022 STB FILE: WIER-STORM DRAIN.STB LAST SAVED: 3/11/2022 11:21 AM SAVED BY: KYLIEM FILE: C506 DETENTION POND PLAN.DWG

5-YR STORM DETENTION STORAGE VOLUME

100 YR POND DESIGN				Rainfall Intesity, $I = b/(T_c+d)^e$					A	$Q_{peak} = Q_0$
Step		K	C	b	d	e	T_c (min)	I (in/hr)	(acres)	(cfs)
1	Existing Conditions	1	0.35				20	4.90		1.6
2	Proposed Conditions	1	**0.90**				**10**	6.10	1.16	6.4

Time Step	T_d duration (min)	K	C	I (in/hr)	A (acres)	Q_{peak} (cfs)	Volume (ft^3)			Volume (acre-ft)
							Inflow T_d*Q*60	Outflow $0.5*(T_c+T_d)*Q_o*60$	Required Storage Inflow-Outflow	Previous Column/43,560
	10	1	0.90	6.10	1.16	6.37	3,821	960	2,861	0.066
	15	1	0.90	5.50	1.16	5.74	5,168	1,200	3,968	0.091
	20	1	0.90	4.90	1.16	5.12	6,139	1,440	4,699	0.108
	30	1	0.90	4.10	1.16	4.28	7,705	1,920	5,785	0.133
	40	1	0.90	3.40	1.16	3.55	8,519	2,400	**6,119**	**0.140**
	50	1	0.90	2.80	1.16	2.92	8,770	2,880	5,890	0.135
	60	1	0.90	2.60	1.16	2.71	9,772	3,360	6,412	0.147
	70	1	0.90	2.40	1.16	2.51	10,524	3,840	6,684	0.153

MAX STORAGE (AC-FT) **0.15**
6,684

5-YR EXISTING CONDITIONS
C = 0.35 FOR OPEN AREAS
I_5 = 4.90 IN./HR.

A_{TxDOT} = DRAINAGE AREA 'A' = 0.14 AC
(SEE DA MAP SHEET C501)
Q_{TxDOT} =0.2 CFS

$A_{CITY\ R.O.W.}$ = DRAINAGE AREA 'B' = 1.06 AC
(SEE DA MAP SHEET C501)
$Q_{CITY\ R.O.W.}$ = 1.8 CFS

5-YR Q ALLOWABLE CALCULATION

1.8 CFS (EX. $Q_{CITY\ R.O.W.}$)
-0.2 CFS (PROP. $Q_{POND\ BYPASS}$)

EX. Q_{PEAK} = 1.6 CFS = ALLOWABLE DISCHARGE FROM POND

5-YR PROPOSED CONDITIONS
C = 0.90 FOR OPEN AREAS
I_5 = 6.10 IN./HR.

$A_{POND\ BYPASS}$ = DRAINAGE AREA 'OS-2' = 0.04 AC
$Q_{POND\ BYPASS}$ = 0.2 CFS

5-YR Q ALLOWABLE CALCULATION

$A_{TO\ POND}$ = DRAINAGE AREAS A-1, A-2, A-3, A-4, A-5, R = 1.16 AC
$Q_{TO\ POND}$ = 6.4 CFS = PROP. Q_{PEAK}

10-YR STORM DETENTION STORAGE VOLUME

100 YR POND DESIGN				Rainfall Intesity, $I = b/(T_c+d)^e$					A	$Q_{peak} = Q_0$
Step		K	C	b	d	e	T_c (min)	I (in/hr)	(acres)	(cfs)
1	Existing Conditions	1	0.35				20	5.90		1.9
2	Proposed Conditions	1	**0.90**				**10**	7.10	1.16	7.4

Time Step	T_d duration (min)	K	C	I (in/hr)	A (acres)	Q_{peak} (cfs)	Volume (ft^3)			Volume (acre-ft)
							Inflow T_d*Q*60	Outflow $0.5*(T_c+T_d)*Q_o*60$	Required Storage Inflow-Outflow	Previous Column/43,560
	10	1	0.90	7.10	1.16	7.41	4,447	1,140	3,307	0.076
	15	1	0.90	6.50	1.16	6.79	6,107	1,425	4,682	0.107
	20	1	0.90	5.90	1.16	6.16	7,392	1,710	5,682	0.130
	30	1	0.90	4.80	1.16	5.01	9,020	2,280	6,740	0.155
	40	1	0.90	4.00	1.16	4.18	10,022	2,850	**7,172**	**0.165**
	50	1	0.90	3.50	1.16	3.65	10,962	3,420	7,542	0.173
	60	1	0.90	3.00	1.16	3.13	11,275	3,990	7,285	0.167
	70	1	0.90	2.80	1.16	2.92	12,277	4,560	7,717	0.177

MAX STORAGE (AC-FT) **0.18**
7,717

IO-YR EXISTING CONDITIONS
C = 0.35 FOR OPEN AREAS
I_{IO} = 5.90 IN./HR.

A_{TxDOT} = DRAINAGE AREA 'A' = 0.14 AC
(SEE DA MAP SHEET C501)
Q_{TxDOT} =0.3 CFS

$A_{CITY\ R.O.W.}$ = DRAINAGE AREA 'B' = 1.06 AC
(SEE DA MAP SHEET C501)
$Q_{CITY\ R.O.W.}$ = 2.2 CFS

IO-YR Q ALLOWABLE CALCULATION

2.2 CFS (EX. $Q_{CITY\ R.O.W.}$)
-0.3 CFS (PROP. $Q_{POND\ BYPASS}$)

EX. Q_{PEAK} = 1.9 CFS = ALLOWABLE DISCHARGE FROM POND

IO-YR PROPOSED CONDITIONS
C = 0.90 FOR OPEN AREAS
I_{IO} = 7.10 IN./HR.

$A_{POND\ BYPASS}$ = DRAINAGE AREA 'OS-2' = 0.04 AC
$Q_{POND\ BYPASS}$ = 0.3 CFS

IO-YR Q ALLOWABLE CALCULATION

$A_{TO\ POND}$ = DRAINAGE AREAS A-1, A-2, A-3, A-4, A-5, R = 1.16 AC
$Q_{TO\ POND}$ = 7.3 CFS = PROP. Q_{PEAK}

25-YR STORM DETENTION STORAGE VOLUME

100 YR POND DESIGN				Rainfall Intesity, $I = b/(T_c+d)^e$					A	$Q_{peak} = Q_0$
Step		K	C	b	d	e	T_c (min)	I (in/hr)	(acres)	(cfs)
1	Existing Conditions	1	0.35				20	6.60		2.1
2	Proposed Conditions	1	**0.90**				**10**	8.30	1.16	8.7

Time Step	T_d duration (min)	K	C	I (in/hr)	A (acres)	Q_{peak} (cfs)	Volume (ft^3)			Volume (acre-ft)
							Inflow T_d*Q*60	Outflow $0.5*(T_c+T_d)*Q_o*60$	Required Storage Inflow-Outflow	Previous Column/43,560
	10	1	0.90	8.30	1.16	8.67	5,199	1,260	3,939	0.090
	15	1	0.90	7.50	1.16	7.83	7,047	1,575	5,472	0.126
	20	1	0.90	6.60	1.16	6.89	8,268	1,890	6,378	0.146
	30	1	0.90	5.50	1.16	5.74	10,336	2,520	7,816	0.179
	40	1	0.90	4.60	1.16	4.80	11,526	3,150	**8,376**	**0.192**
	50	1	0.90	4.00	1.16	4.18	12,528	3,780	8,748	0.201
	60	1	0.90	3.50	1.16	3.65	13,154	4,410	8,744	0.201
	70	1	0.90	3.30	1.16	3.45	14,470	5,040	9,430	0.216

MAX STORAGE (AC-FT) **0.22**
9,430

25-YR EXISTING CONDITIONS
C = 0.35 FOR OPEN AREAS
I_{25} = 6.60 IN./HR.

A_{TxDOT} = DRAINAGE AREA 'A' = 0.14 AC
(SEE DA MAP SHEET C501)
Q_{TxDOT} =0.3 CFS

$A_{CITY\ R.O.W.}$ = DRAINAGE AREA 'B' = 1.06 AC
(SEE DA MAP SHEET C501)
$Q_{CITY\ R.O.W.}$ =2.4 CFS

25-YR Q ALLOWABLE CALCULATION

2.4 CFS (EX. $Q_{CITY\ R.O.W.}$)
-0.3 CFS (PROP. $Q_{POND\ BYPASS}$)

EX. Q_{PEAK} = 2.1 CFS = ALLOWABLE DISCHARGE FROM POND

25-YR PROPOSED CONDITIONS
C = 0.90 FOR OPEN AREAS
I_{25} = 8.30 IN./HR.

$A_{POND\ BYPASS}$ = DRAINAGE AREA 'OS-2' = 0.04 AC
$Q_{POND\ BYPASS}$ = 0.3 CFS

25-YR Q ALLOWABLE CALCULATION

$A_{TO\ POND}$ = DRAINAGE AREAS A-1, A-2, A-3, A-4, A-5, R = 1.11 AC
$Q_{TO\ POND}$ = 8.6 CFS = PROP. Q_{PEAK}

100-YR STORM DETENTION STORAGE VOLUME

100 YR POND DESIGN				Rainfall Intesity, $I = b/(T_c+d)^e$					A	$Q_{peak} = Q_0$
Step		K	C	b	d	e	T_c (min)	I (in/hr)	(acres)	(cfs)
1	Existing Conditions	1	0.35				20	8.30		2.7
2	Proposed Conditions	1	**0.90**				**10**	9.80	1.16	10.2

Time Step	T_d duration (min)	K	C	I (in/hr)	A (acres)	Q_{peak} (cfs)	Volume (ft^3)			Volume (acre-ft)
							Inflow T_d*Q*60	Outflow $0.5*(T_c+T_d)*Q_o*60$	Required Storage Inflow-Outflow	Previous Column/43,560
	10	1	0.90	9.80	1.16	10.23	6,139	1,620	4,519	0.104
	15	1	0.90	9.00	1.16	9.40	8,456	2,025	6,431	0.148
	20	1	0.90	8.30	1.16	8.67	10,398	2,430	7,968	0.183
	30	1	0.90	6.90	1.16	7.20	12,966	3,240	9,726	0.223
	40	1	0.90	5.80	1.16	6.06	14,532	4,050	**10,482**	**0.241**
	50	1	0.90	5.00	1.16	5.22	15,660	4,860	10,800	0.248
	60	1	0.90	4.50	1.16	4.70	16,913	5,670	11,243	0.258
	70	1	0.90	4.00	1.16	4.18	17,539	6,480	11,059	0.254

MAX STORAGE (AC-FT) **0.26**
11,243

100-YR EXISTING CONDITIONS
C = 0.35 FOR OPEN AREAS
I_{100} = 8.30 IN./HR.

A_{TxDOT} = DRAINAGE AREA 'A' = 0.14 AC
(SEE DA MAP SHEET C501)
Q_{TxDOT} =0.4 CFS

$A_{CITY\ R.O.W.}$ = DRAINAGE AREA 'B' = 1.06 AC
(SEE DA MAP SHEET C501)
$Q_{CITY\ R.O.W.}$ = 3.1 CFS

100-YR Q ALLOWABLE CALCULATION

3.1 CFS (EX. $Q_{CITY\ R.O.W.}$)
-0.4 CFS (PROP. $Q_{POND\ BYPASS}$)

EX. Q_{PEAK} = 2.7 CFS = ALLOWABLE DISCHARGE FROM POND

100-YR PROPOSED CONDITIONS
C = 0.90 FOR OPEN AREAS
I_{100} = 9.80 IN./HR.

$A_{POND\ BYPASS}$ = DRAINAGE AREA 'OS-2' = 0.03 AC
$Q_{POND\ BYPASS}$ = 0.4 CFS

100-YR Q ALLOWABLE CALCULATION

$A_{TO\ POND}$ = DRAINAGE AREAS A-1, A-2, A-3, A-4, A-5, R = 1.11 AC
$Q_{TO\ POND}$ = 10.2 CFS = PROP. Q_{PEAK}

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

CITY _____ DATE _____

PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com

NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

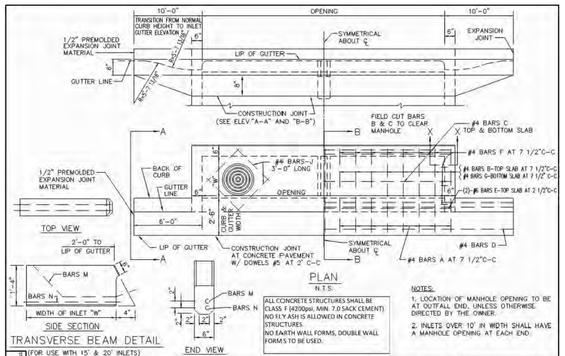
DETENTION STORAGE CALCULATIONS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

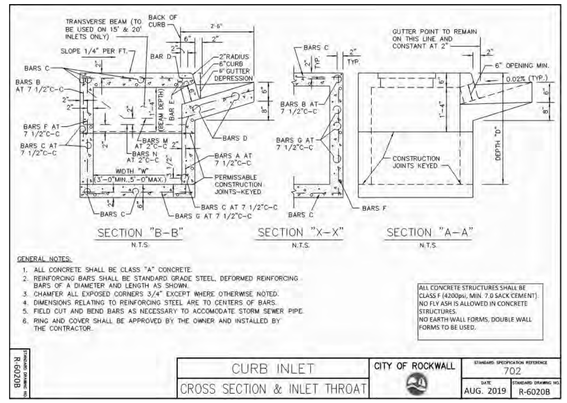
RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

LAST SHEET EDIT DATE 3/11/2022
WA# 21089
SHEET NO. C507

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 3/11/2022 11:21 AM SAVED BY: KYLIEM FILE: C506 DETENTION POND PLAN.DWG



1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.



1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.

BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS	OPENING LENGTH "L" = 5ft			OPENING LENGTH "L" = 10ft						OPENING LENGTH "L" = 15 ft						OPENING LENGTH "L" = 20 ft											
		Widths "W" 3ft 4ft 5ft			Widths "W" 3ft 4ft 5ft						Widths "W" 3ft 4ft 5ft						Widths "W" 3ft 4ft 5ft											
		(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)	(set)
		C	D	E	J	F	F	A	B	G	F	F	A	B	G	F	F	A	B	G	M	N	F	F	A	B	G	M	N
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	48	52	34	34	44	2	2
3'-9"	18	*	*	*	*	*	*	*	*	20	*	*	*	*	*	28	*	*	*	*	*	36	*	*	*	*	*	*	*	44	*	*
4'-0"	19	*	*	*	*	*	*	*	*	24	*	*	*	*	*	32	*	*	*	*	*	40	*	*	*	*	*	*	*	48	*	*
4'-3"	19	*	*	*	*	*	*	*	*	24	*	*	*	*	*	32	*	*	*	*	*	40	*	*	*	*	*	*	*	48	*	*
4'-6"	21	*	*	*	*	*	*	*	*	26	*	*	*	*	*	34	*	*	*	*	*	42	*	*	*	*	*	*	*	50	*	*
4'-9"	21	*	*	*	*	*	*	*	*	26	*	*	*	*	*	34	*	*	*	*	*	42	*	*	*	*	*	*	*	50	*	*
5'-0"	21	*	*	*	*	*	*	*	*	26	*	*	*	*	*	34	*	*	*	*	*	42	*	*	*	*	*	*	*	50	*	*
5'-3"	23	*	*	*	*	*	*	*	*	28	*	*	*	*	*	36	*	*	*	*	*	44	*	*	*	*	*	*	*	52	*	*
5'-6"	23	*	*	*	*	*	*	*	*	28	*	*	*	*	*	36	*	*	*	*	*	44	*	*	*	*	*	*	*	52	*	*
5'-9"	25	*	*	*	*	*	*	*	*	30	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	*	*	54	*	*
6'-0"	25	*	*	*	*	*	*	*	*	30	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	*	*	54	*	*
6'-3"	26	*	*	*	*	*	*	*	*	30	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	*	*	54	*	*
6'-6"	27	*	*	*	*	*	*	*	*	32	*	*	*	*	*	40	*	*	*	*	*	48	*	*	*	*	*	*	*	56	*	*
6'-9"	27	*	*	*	*	*	*	*	*	32	*	*	*	*	*	40	*	*	*	*	*	48	*	*	*	*	*	*	*	56	*	*
7'-0"	29	*	*	*	*	*	*	*	*	34	*	*	*	*	*	42	*	*	*	*	*	50	*	*	*	*	*	*	*	58	*	*
7'-3"	29	*	*	*	*	*	*	*	*	34	*	*	*	*	*	42	*	*	*	*	*	50	*	*	*	*	*	*	*	58	*	*
7'-6"	31	*	*	*	*	*	*	*	*	36	*	*	*	*	*	44	*	*	*	*	*	52	*	*	*	*	*	*	*	60	*	*
7'-9"	31	*	*	*	*	*	*	*	*	36	*	*	*	*	*	44	*	*	*	*	*	52	*	*	*	*	*	*	*	60	*	*
8'-0"	31	*	*	*	*	*	*	*	*	36	*	*	*	*	*	44	*	*	*	*	*	52	*	*	*	*	*	*	*	60	*	*
8'-3"	32	*	*	*	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	54	*	*	*	*	*	*	*	62	*	*
8'-6"	33	*	*	*	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	54	*	*	*	*	*	*	*	62	*	*
8'-9"	34	*	*	*	*	*	*	*	*	38	*	*	*	*	*	46	*	*	*	*	*	54	*	*	*	*	*	*	*	62	*	*
9'-0"	35	*	*	*	*	*	*	*	*	40	*	*	*	*	*	48	*	*	*	*	*	56	*	*	*	*	*	*	*	64	*	*
9'-3"	36	*	*	*	*	*	*	*	*	40	*	*	*	*	*	48	*	*	*	*	*	56	*	*	*	*	*	*	*	64	*	*
9'-6"	37	*	*	*	*	*	*	*	*	42	*	*	*	*	*	50	*	*	*	*	*	58	*	*	*	*	*	*	*	66	*	*
10'-0"	38	*	*	*	*	*	*	*	*	42	*	*	*	*	*	50	*	*	*	*	*	58	*	*	*	*	*	*	*	66	*	*

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

ALL CONCRETE STRUCTURES SHALL BE CLASS F (4200psi, MIN. 6.5 SACK CEMENT). NO FLY ASH IS ALLOWED IN CONCRETE STRUCTURES.

CURB INLET
BILL OF REINFORCING STEEL
CITY OF ROCKWALL
STANDARD SPECIFICATION REFERENCE 702
DATE Mar. 2018
STANDARD DRAWING NO. R-6020D
6020D

1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.
3. BLOCK OUT FOR THROAT TO BE TWO AND ONE-HALF (2-1/2) FEET FROM BACK OF CURB.
4. GUTTER DEPRESSION TO BE SIX (6) INCHES.

SUMMARY OF QUANTITIES FOR CURB INLETS

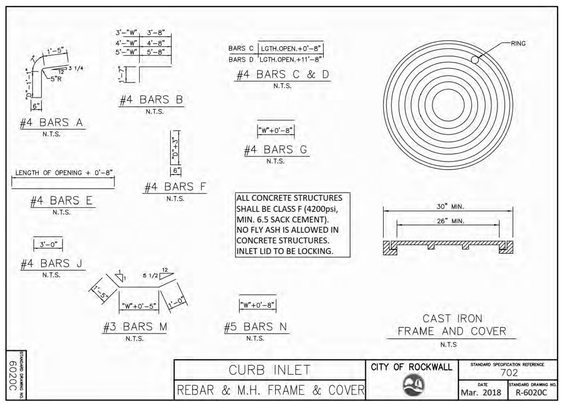
DEPTH "D"	5'-0" OPENING				10'-0" OPENING				15'-0" OPENING				20'-0" OPENING			
	WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"	
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.
3'-6"	2.62	306	2.95	332	3.28	373	4.12	479	4.64	521	5.20	564	5.69	667	6.40	721	7.10	775
3'-9"	2.70	309	3.04	341	3.39	373	4.25	494	4.78	536	5.34	579	5.87	687	6.58	741	7.30	796
4'-0"	2.78	328	3.14	364	3.49	399	4.38	518	4.92	565	5.49	610	6.05	718	6.77	776	7.49	835
4'-3"	2.87	334	3.23	370	3.59	406	4.51	526	5.06	573	5.64	619	6.22	729	6.95	787	7.69	847
4'-6"	2.95	356	3.32	394	3.69	431	4.64	558	5.20	607	5.79	656	6.40	770	7.14	830	7.88	891
4'-9"	3.03	361	3.41	410	3.79	436	4.77	566	5.34	616	5.94	665	6.57	780	7.32	841	8.07	903
5'-0"	3.12	367	3.51	416	3.90	445	4.90	574	5.47	624	6.09	674	6.75	791	7.51	853	8.27	915
5'-3"	3.20	383	3.60	424	4.00	465	5.03	600	5.61	652	6.23	704	6.93	827	7.69	890	8.46	955
5'-6"	3.28	389	3.69	430	4.10	472	5.16	608	5.75	661	6.38	713	7.11	837	7.88	901	8.66	967
5'-9"	3.37	405	3.78	451	4.20	495	5.29	635	5.89	690	6.53	744	7.28	874	8.07	940	8.85	1007
6'-0"	3.45	415	3.88	460	4.30	504	5.42	646	6.03	702	6.68	757	7.45	888	8.25	954	9.05	1022
6'-3"	3.53	427	3.97	470	4.41	515	5.55	661	6.17	718	6.83	773	7.63	908	8.44	975	9.24	1044
6'-6"	3.62	437	4.06	486	4.51	532	5.68	681	6.31	739	6.97	797	7.81	935	8.62	1005	9.43	1057
6'-9"	3.70	441	4.15	490	4.61	537	5.81	688	6.45	747	7.12	806	7.98	945	8.81	1015	9.63	1066
7'-0"	3.78	460	4.25	510	4.71	560	5.94	716	6.59	777	7.27	837	8.16	981	8.99	1053	9.82	1126
7'-3"	3.86	465	4.34	516	4.81	567	6.07	724	6.72	785	7.42	846	8.33	992	9.18	1065	10.02	1138
7'-6"	3.95	477	4.43	529	4.91	570	6.20	742	6.86	804	7.57	866	8.51	1016	9.36	1089	10.21	1163
7'-9"	4.03	491	4.53	544	5.02	597	6.33	762	7.00	826	7.71	890	8.67	1040	9.55	1116	10.41	1193
8'-0"	4.12	496	4.62	550	5.12	604	6.46	770	7.14	834	7.86	899	8.86	1051	9.73	1129	10.60	1205
8'-3"	4.20	504	4.71	559	5.22	613	6.59	784	7.28	849	8.01	915	9.04	1069	9.92	1149	10.80	1228
8'-6"	4.28	519	4.80	576	5.32	632	6.71	804	7.42	871	8.16	938	9.21	1107	10.10	1176	10.99	1257
8'-9"	4.37	528	4.90	586	5.42	643	6.84	819	7.56	886	8.31	954	9.39	1119	10.29	1199	11.18	1280
9'-0"	4.45	545	4.99	605	5.53	664	6.97	842	7.70	912	8.46	982	9.56	1148	10.47	1231	11.38	1313
9'-3"	4.53	554	5.08	614	5.63	674	7.10	858	7.84	929	8.60	999	9.74	1169	10.66	1252	11.57	1335
9'-6"	4.62	568	5.17	630	5.73	692	7.23	878	7.97	950	8.75	1022	9.92	1195	10.84	1280	11.77	1365
9'-9"	4.70	577	5.27	640	5.83	703	7.36	894	8.11	967	8.90	1040	10.09	1214	11.03	1302	11.97	1390
10'-0"	4.78	582	5.36	645	5.93	708	7.49	900	8.11	974	9.05	1048	10.27	1227	11.21	1312	12.16	1399

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

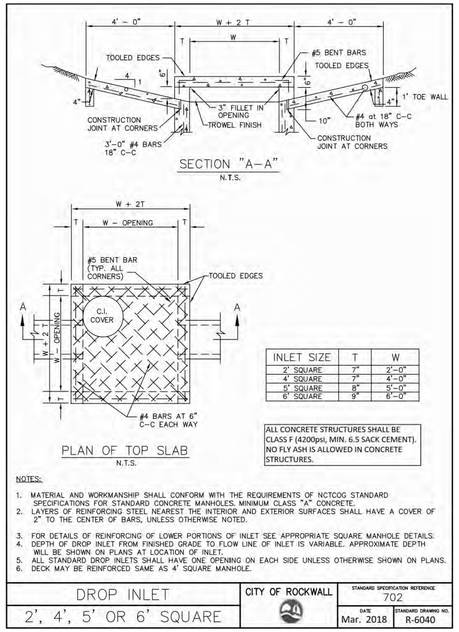
ALL CONCRETE STRUCTURES SHALL BE CLASS F (4200psi, MIN. 6.5 SACK CEMENT). NO FLY ASH IS ALLOWED IN CONCRETE STRUCTURES.

CURB INLET
SUMMARY OF QUANTITIES
CITY OF ROCKWALL
STANDARD SPECIFICATION REFERENCE 702
DATE Mar. 2018
STANDARD DRAWING NO. R-6020E
6020E

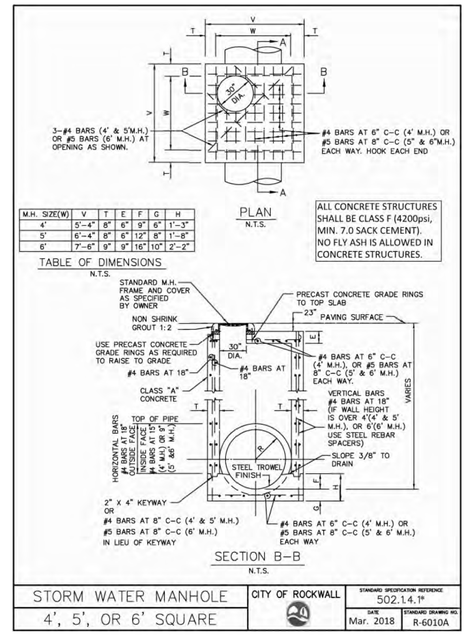
1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.
3. INLET LID TO BE LOCKING.



1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.



1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.



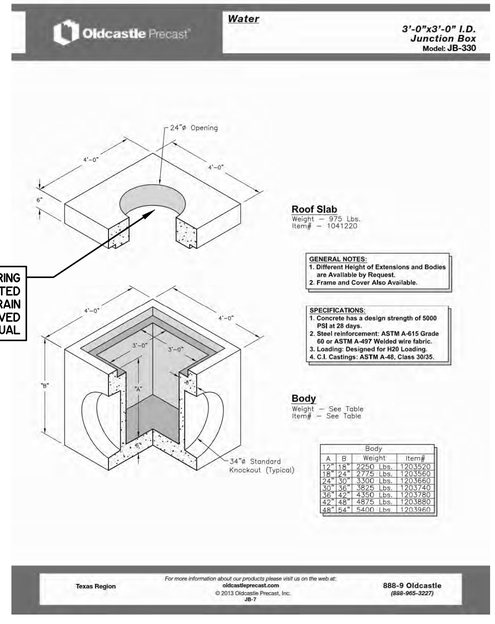
1. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI, MINIMUM 6.5 SACK CEMENT).
2. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES.

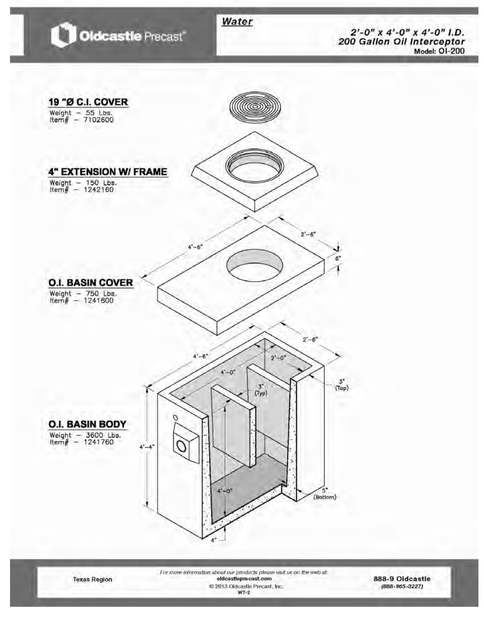
USE BASS & HAYS BH280-24 RING WITH BH300-24C72 UNBOLTED COVER FOR STORM DRAIN JUNCTION BOXES, OR APPROVED EQUAL

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

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

CITY _____ DATE _____





PREPARED BY:
WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.WierAssociates.com

NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

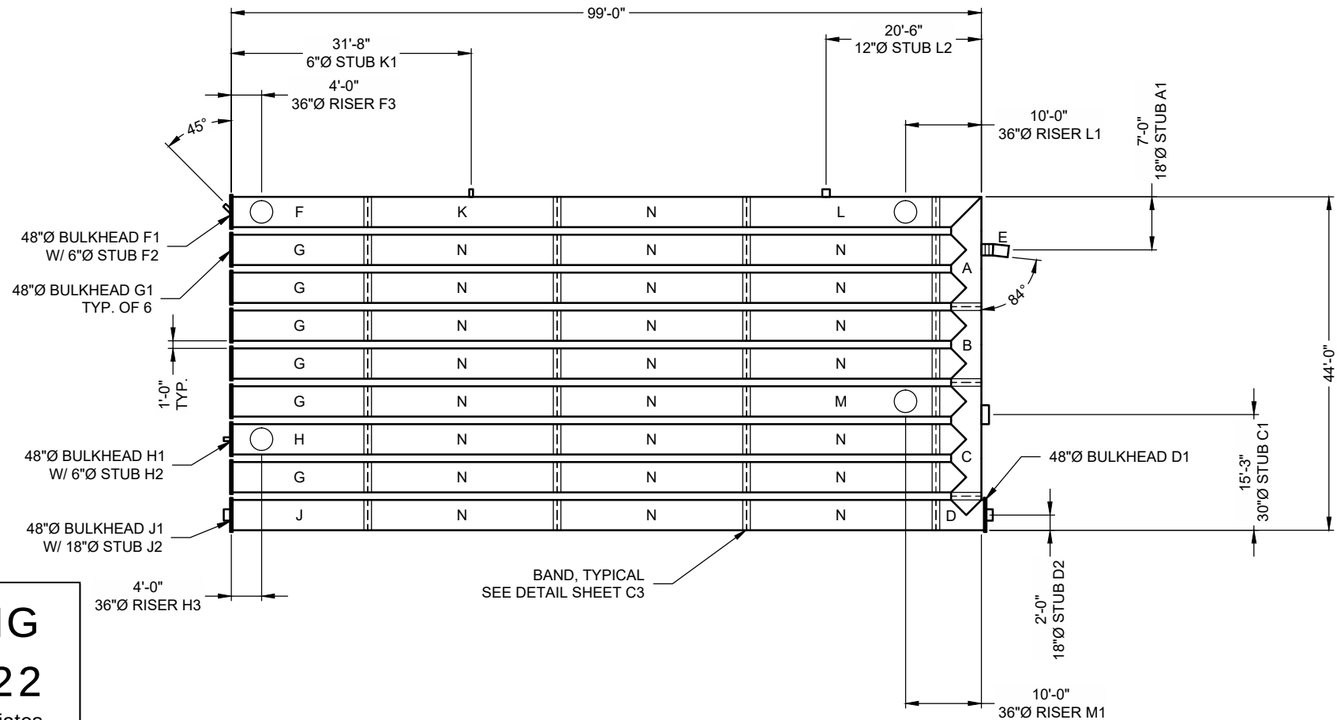
STORM DRAIN DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 3/30/2022
WA# 21089
SHEET NO. C508

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 3/30/2022 1:42 PM SAVED BY: LUISG FILE: C508 STORM DRAIN DETAILS.DWG

NORTH ARROW PROVIDED FOR
REFERENCE ONLY.
REFER TO ENGINEERED SITE PLANS FOR
EXACT LOCATION AND ORIENTATION



STUB INFORMATION		
PIECE	STUB INVERT	SYSTEM INVERT
18"Ø STUB A1	535.19	535.19
30"Ø STUB C1	535.19	535.19
18"Ø STUB D2	535.19	535.19
6"Ø STUB F2	535.69	535.69
6"Ø STUB H2	535.69	535.69
18"Ø STUB J2	535.69	535.69
6"Ø STUB K1	535.53	535.53
12"Ø STUB L2	535.29	535.29

RISER INFORMATION		
PIECE	RIM ELEV.	SYSTEM INVERT
36"Ø RISER F3	TBD	535.67
36"Ø RISER H3	TBD	535.67
36"Ø RISER L1	TBD	535.24
36"Ø RISER M1	TBD	535.24

RECORD DRAWING
December 06, 2022

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CITY _____ DATE _____

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (4) PAGES INCLUDING THE FOLLOWING:

- **PIPE STORAGE = 11,311 CF**
- **MAINLINE PIPE GAGE = 16**
- **WALL TYPE = SOLID**
- **DIAMETER = 48"**
- **FINISH = ALT2**
- **CORRUGATION = 2 2/3x1/2**

CUSTOMER _____ DATE _____

STATE OF TEXAS
MITCHELL T. HARDERT
108405
LICENSED
PROFESSIONAL ENGINEER
4/28/22

KOONTZ BRYANT JOHNSON WILLIAMS, INC.
TBPE FIRM NUMBER F-23121

ASSEMBLY
SCALE: 1" = 20'
PIPE STORAGE: 11,311 CF
LOADING: H20
PIPE INV. = 535.19+0.50%'±

NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2⅔" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

Approved By	Date
MTH	4/28/22
Project No.	Rev.
KBJW-24928	-

KOONTZ BRYANT JOHNSON WILLIAMS
Formerly CBC Engineers

Rev.	Date	By	Description

MARK	DATE	REVISION DESCRIPTION	BY

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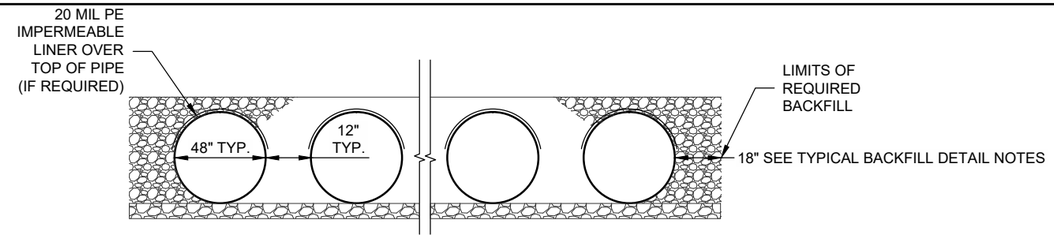
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH CONTRACT DRAWING

48"Ø UNDERGROUND DETENTION SYSTEM - 690526-010
FROST BANK ROCKWALL
ROCKWALL, TX
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.:	SEQ. No.:	DATE:
690526	010	4/6/2022
DESIGNED: MJK	DRAWN: MJK	
CHECKED: LJK	APPROVED: MJK	
SHEET C509		



TYPICAL SECTION VIEW

NOT TO SCALE

NOTE: IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

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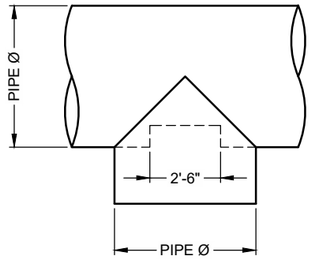
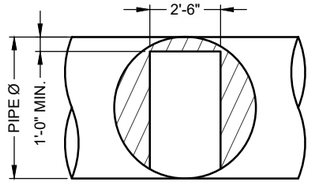


PLAN

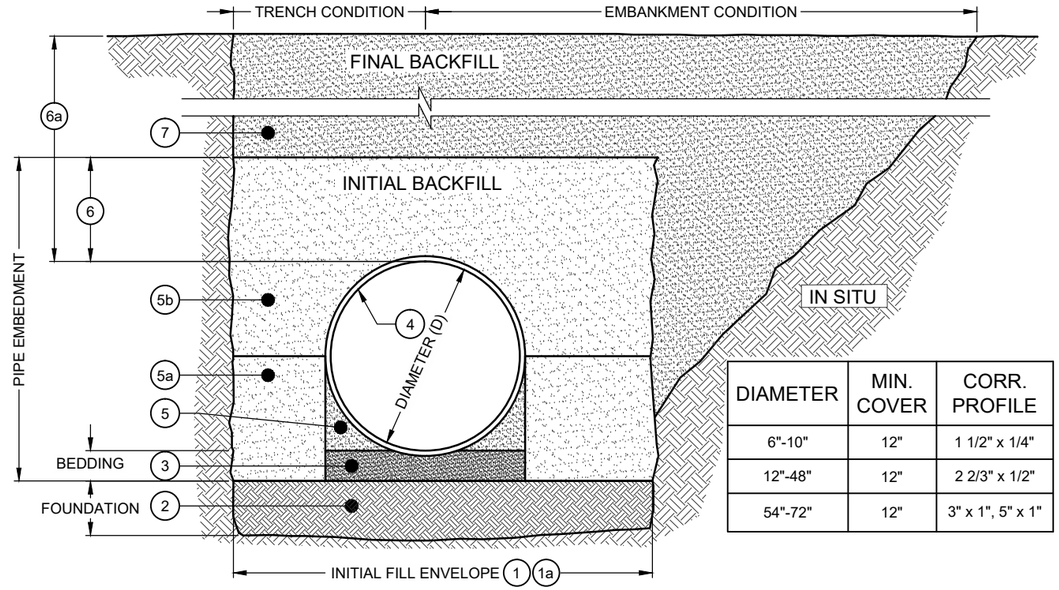


FRONT

48"Ø to 90"Ø FITTING REINFORCEMENT MAY BE REQUIRED BASED ON HEIGHT OF COVER AND LIVE LOAD CONDITION

TYPICAL MANWAY DETAIL

NOT TO SCALE



DIAMETER	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 1/4"
12"-48"	12"	2 2/3" x 1/2"
54"-72"	12"	3" x 1", 5" x 1"

BACKFILL REQUIREMENTS FOLLOW THE GUIDELINES OF AASHTO LRFD BRIDGE DESIGN (SEC 12) AND CONSTRUCTION (SEC 26)

1 MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE.
THE MINIMUM TRENCH WIDTH (12.6.6.1):
PIPE ≤ 12": D + 16"
PIPE > 12": 1.5D + 12"

1a MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE (12.6.6.2):
PIPE < 24": 3.0D
PIPE 24" - 144": D + 4'0"
PIPE > 144": D + 10'0"

2 THE FOUNDATION UNDER THE PIPE AND SIDE BACKFILL SHALL BE ADEQUATE TO SUPPORT THE LOADS ACTING UPON IT (26.5.2).

3 BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, AND A MINIMUM OF TWICE THE CORRUGATION DEPTH IN THICKNESS, WITH THE MAXIMUM PARTICLE SIZE OF ONE-HALF OF THE CORRUGATION DEPTH (26.3.8.1, 26.5.3).

4 CORRUGATED STEEL PIPE (CSP / HEL-COR), DIAMETERS 18" - 72"

5 HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION (26.5.4).

5a INITIAL BACKFILL SHALL BE WELL GRADED CRUSHED ROCK UP TO SPRINGLINE OF PIPE.

5b BACKFILL PLACED ABOVE THE SPRINGLINE TO MEET AASHTO A-1, A-2 OR A-3 CLASSIFICATION, OR APPROVED EQUAL, COMPACTED TO 90% STANDARD PROCTOR (T 99). MAXIMUM PARTICLE SIZE NOT TO EXCEED 3" (12.4.1.2). ALL LIFTS PLACED IN A CONTROLLED MANNER. IT IS RECOMMENDED THAT LIFTS NOT EXCEED AN 8" UNCOMPACTED LIFT HEIGHT TO PREVENT UNEVEN LOADING, AND THE LESSER OF 1/3 THE DIAMETER OR 24" AS THE MAXIMUM DIFFERENTIAL SIDE-TO-SIDE (26.5.4).

6 SAND BACKFILL (AASHTO A-3 OR APPROVED EQUAL) TO BE PLACED FROM SPRINGLINE TO 12" ABOVE PIPE. INITIAL BACKFILL ABOVE MAY INCLUDE ROAD BASE MATERIAL (AND RIGID PAVEMENT IF APPLICABLE).

6a TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT (12.6.6.3).

7 FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD (26.5.4.1).

NOTES:
- GEOTEXTILE SHOULD BE CONSIDERED FOR USE TO PREVENT SOIL MIGRATION INTO VARYING SOIL TYPES (PROJECT ENGINEER).
- FOR MULTIPLE BARREL INSTALLATIONS THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE PIPE DIA./2 BUT NO LESS THAN 12", OR 36" FOR PIPE DIAMETERS 72" AND LARGER. CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING (TABLE C12.6.7-1).

TYPICAL BACKFILL DETAIL

NOT TO SCALE

Approved By	Date
MTH	4/28/22
Project No.	Rev.
KBJW-24928	-

KOONTZ BRYANT JOHNSON WILLIAMS
Formerly CBC Engineers

Rev.	Date	By	Description

MARK	DATE	REVISION DESCRIPTION	BY

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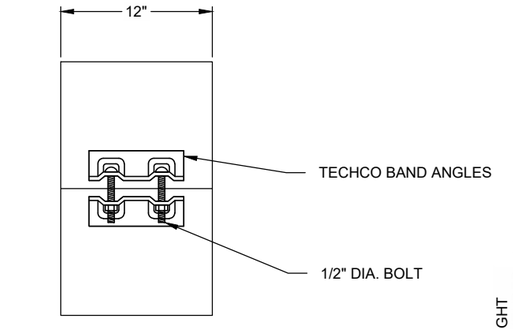
CONTECH CMP DETENTION SYSTEMS
CONTECH CONTRACT DRAWING

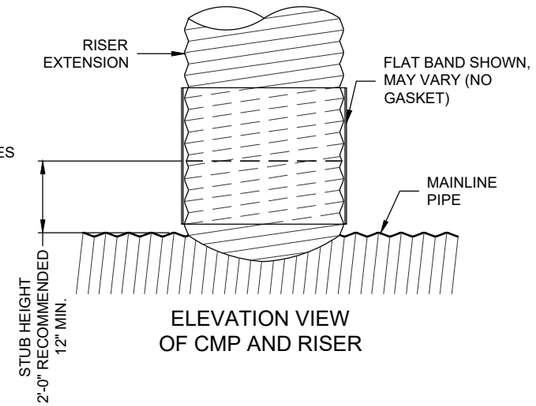
48"Ø UNDERGROUND DETENTION SYSTEM - 690526-010
FROST BANK ROCKWALL
ROCKWALL, TX
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.:	SEQ. No.:	DATE:
690526	010	4/6/2022
DESIGNED: MJK	DRAWN: MJK	
CHECKED: LJK	APPROVED: MJK	

SHEET NO: C510



CONNECTION DETAIL
7 1/2" TECHCO SHOWN - MAY VARY



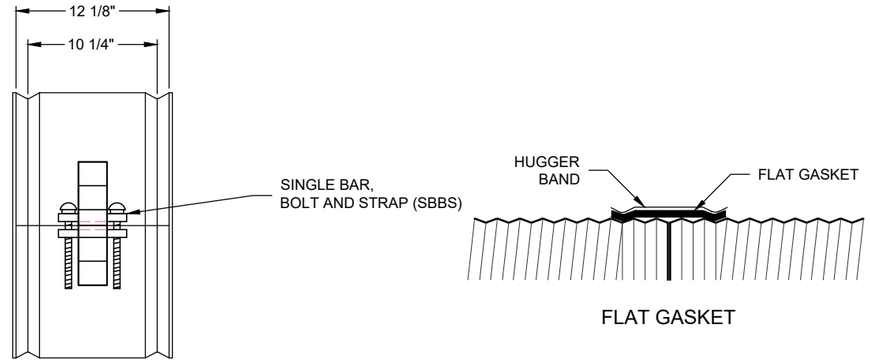
ELEVATION VIEW
OF CMP AND RISER

PLAIN END CMP RISER PIPE

GENERAL NOTES:

1. **DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.**
2. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.
4. IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.
5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
   - 12" THRU 48" 1-PIECE
   - 54" 2-PIECES
6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
7. MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

12" RISER BAND DETAIL
NOT TO SCALE



CONNECTION DETAIL
(SBBS)

2 2/3"x1/2" RE-ROLLED END HEL-COR PIPE

GENERAL NOTES:

1. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
2. BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.
3. BANDS ARE SHAPED TO MATCH THE PIPE-ARCH WHEN APPLICABLE.
4. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
   - 12" THRU 48" 1-PIECE
   - 54" THRU 96" 2-PIECES
   - 102" THRU 144" 3-PIECES
5. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
6. ALL CMP IS REROLLED TO HAVE ANNULAR END CORRUGATIONS OF 2 2/3"x1/2"
7. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
8. ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

H-12 HUGGER BAND DETAIL
NOT TO SCALE

KOONTZ BRYANT JOHNSON WILLIAMS, INC.
TBPE FIRM NUMBER F-23121

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Approved By	Date
MTH	4/28/22
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KBJW-24928	-

KOONTZ BRYANT JOHNSON WILLIAMS
Formerly CBC Engineers

Rev.	Date	By	Description

MARK	DATE	REVISION DESCRIPTION	BY

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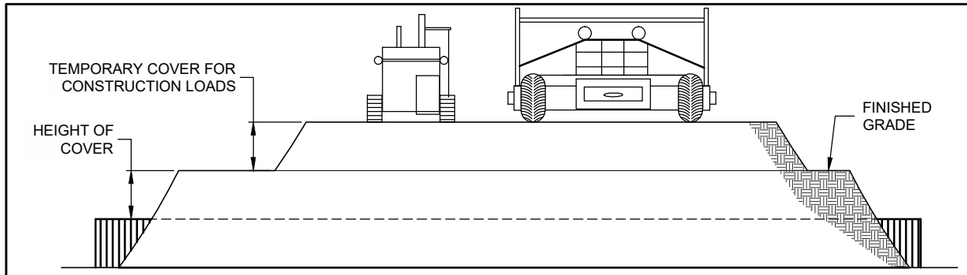
CONTECH CMP DETENTION SYSTEMS
CONTECH CONTRACT DRAWING

48"Ø UNDERGROUND DETENTION SYSTEM - 690526-010
FROST BANK ROCKWALL
ROCKWALL, TX
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.:	SEQ. No.:	DATE:
690526	010	4/6/2022
DESIGNED: MJK	DRAWN: MJK	
CHECKED: LJK	APPROVED: MJK	
SHEET NO.: C511		



CONSTRUCTION LOADS

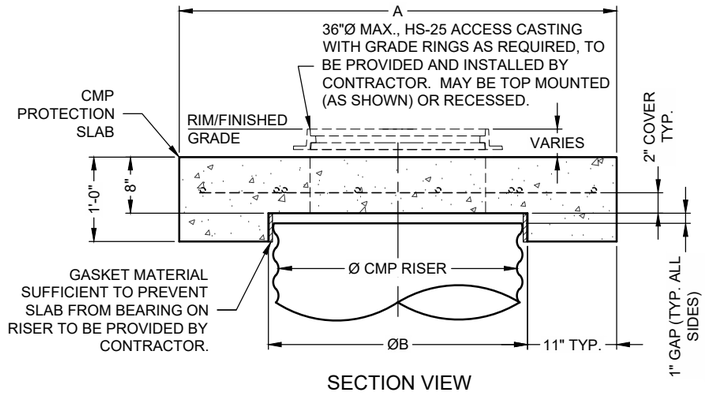
FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM

NOT TO SCALE



SECTION VIEW

REINFORCING TABLE				
Ø CMP RISER	A	B Ø	REINFORCING	**BEARING PRESSURE (PSF)
24"	4'Ø 4'x4'	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
30"	4'-6"Ø 4'-6" x 4'-6"	32"	#5 @ 10" OCEW #5 @ 9" OCEW	2,260 1,670
36"	5'Ø 5' x 5'	38"	#5 @ 9" OCEW #5 @ 8" OCEW	2,060 1,500
42"	5'-6"Ø 5'-6" x 5'-6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370
48"	6'Ø 6' x 6'	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270

** ASSUMED SOIL BEARING CAPACITY

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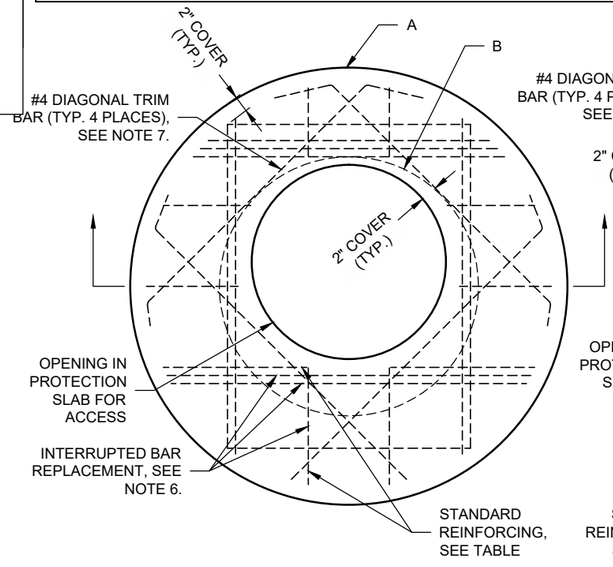
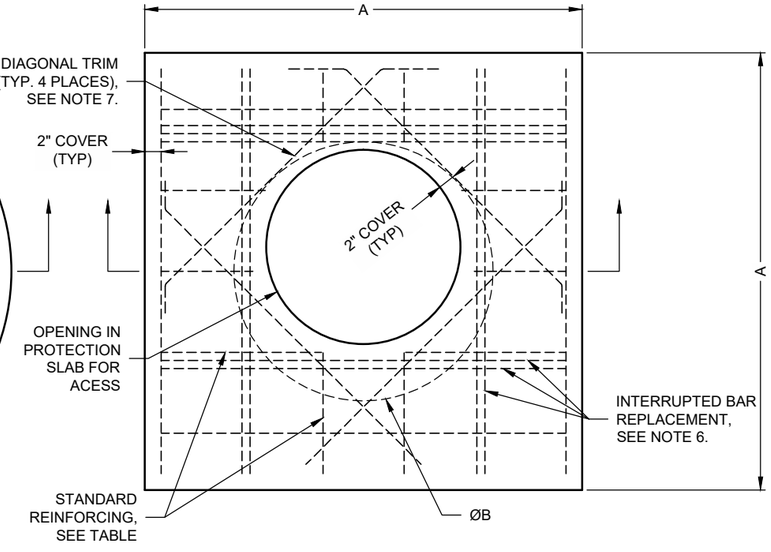
ACCESS CASTING NOT SUPPLIED BY CONTECH



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

NOTES:

1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND ACI 350.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 4,000 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS, ENDWELL, NY.

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CITY _____ DATE _____

MANHOLE CAP DE

NOT TO SCALE

MATERIAL SPECIFICATION

NOT TO SCALE

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

SCOPE

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

MATERIAL

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

PIPE

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

HANDLING AND ASSEMBLY

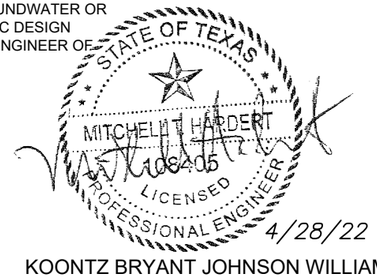
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA)

INSTALLATION

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

ANTI-FLOTATION PROVISIONS DUE TO HIGH GROUNDWATER OR OTHER FLOTATION CONCERNS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.



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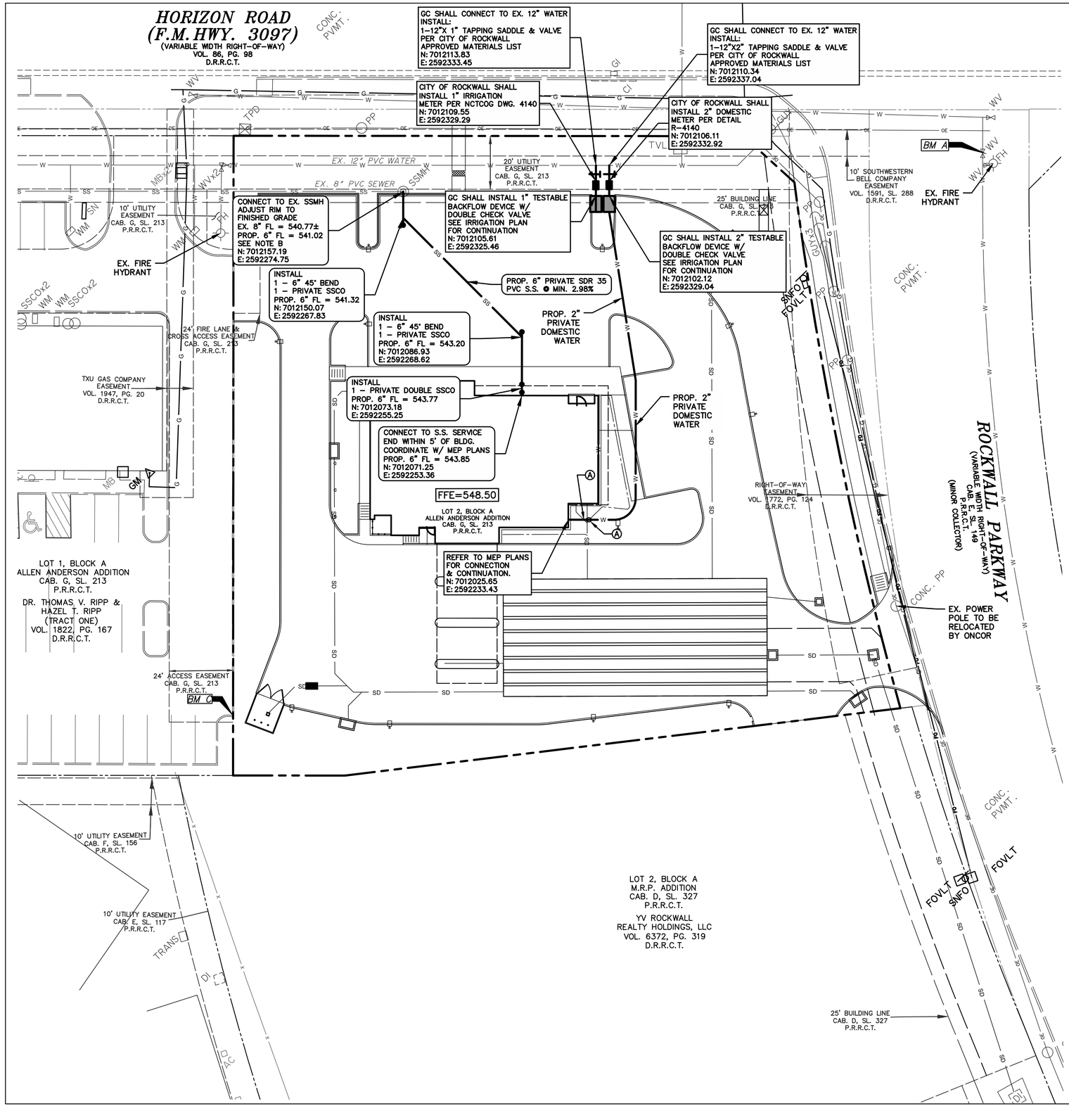
MJK	MJK	
CHECKED:	APPROVED:	
LJK	MJK	

SHEET NO.: C512



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

ALL SANITARY SEWER WORK DESIGNATED AS "PRIVATE" IN THIS SET OF PLANS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE, PERMITTED AND INSPECTED BY THE CITY BUILDING INSPECTION DEPARTMENT AND INSTALLED BY A LICENSED PLUMBER.

(A) MAINTAIN 2' VERTICAL SEPARATION AT UTILITY CROSSINGS.

(B) MANHOLE SHALL BE RAVEN LINED OR APPROVED EQUAL. IF LINED, THE MANHOLE IS TO BE SPARK TESTED AS WELL AS PRESSURE TESTED FOR ROCKWALL DETAIL R-5030.

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH IRRIGATION PLANS FOR FINAL LOCATION AND SIZE OF IRRIGATION CONDUITS.
2. COORDINATE FINAL ENTRY LOCATIONS OF WATER & SEWER WITH MEP PLUMBING PLANS.
3. NOTIFY MEP AND CIVIL ENGINEER IMMEDIATELY IF ANY CONFLICT OCCURS.
4. FIRE PROTECTION WATER SUPPLIES AND FIRE LANES SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING CONSTRUCTION.
5. CONTRACTOR SHALL NOT DISRUPT ACCESS OR ANY UTILITY SERVICE TO ADJACENT LOTS WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM CITY OF ROCKWALL AND PROPERTY OWNERS.
6. CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE CITY.
7. ALL FIRE HYDRANTS AND METERS SHALL HAVE 5' CLEARANCE AROUND THEM.
8. BLUE EMS DISK SHALL BE PLACED AT 250' INTERVALS AND AT ALL BENDS, TEES, CORPS, SERVICES, METERS, ETC.
9. BLUE EMS DISK SHALL BE PLACED AT 250' INTERVALS AND AT ALL MANHOLES, CLEAN-OUTS, WYES, AND AT 250' INTERVALS.

RECORD DRAWING
December 06, 2022
To the best of our knowledge Wier & Associates, Inc., states this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

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PREPARED BY:
WIER & ASSOCIATES, INC.
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2201 E. LAMAR BLVD., SUITE 200E ARLINGTON, TEXAS 76006 METRO (817)467-7700
Texas Firm Registration No. F-2776 www.wierassociates.com

NO.	DATE	DESCRIPTION	BY
1	3/21/22	ADDENDUM NO. 001	
2	6/03/22	ADDENDUM NO. 003	
3	6/22/22	ADDENDUM NO. 004	
4	9/23/22	ASI 002	

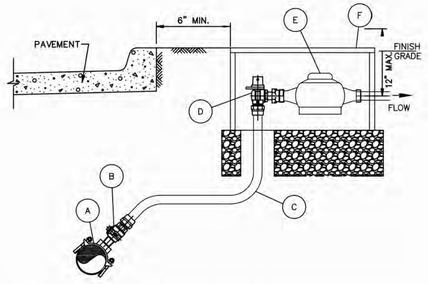
FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

UTILITY PLAN

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
12/06/2022

LAST SHEET EDIT
DATE 12/6/2022
WA# 21089
SHEET NO.
C600

PRINTED: 12/6/2022 STB FILE: WIER-WATER & SEWER.STB LAST SAVED: 12/6/2022 9:51 AM SAVED BY: LUISG FILE: C600 UTILITY PLAN.DWG



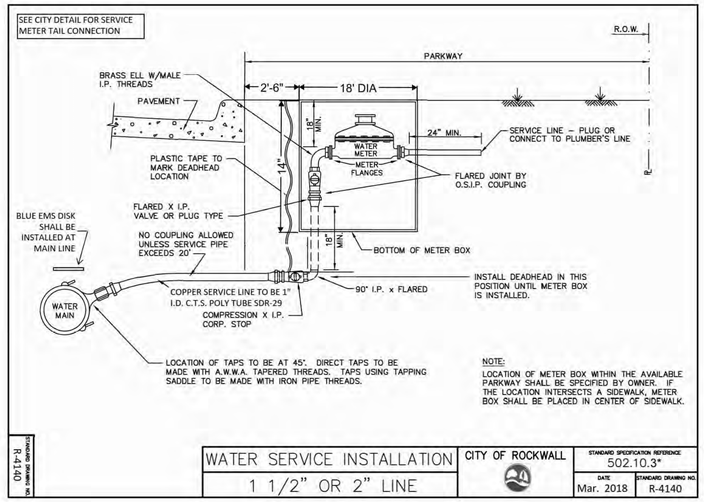
NOTES:

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

MATERIAL LIST:

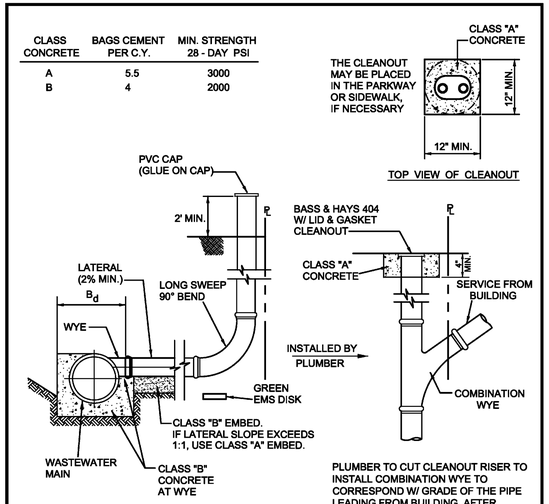
A. SERVICE SADDLE SHALL BE BRASS WITH DOUBLE BRONZE FLATTENED STRAPS OR STAINLESS STEEL DOUBLE BOLT WIDE STRAPS. NO BANDED OR HINGED STRAPS SHALL BE ALLOWED. SERVICE SADDLES SHALL MEET AWWA/CC TAPPING OUTLET (TAPERED THREADS) REQUIREMENTS. ALL SERVICE SADDLES SHALL BE PER APPROVED WATER MATERIALS LIST.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

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

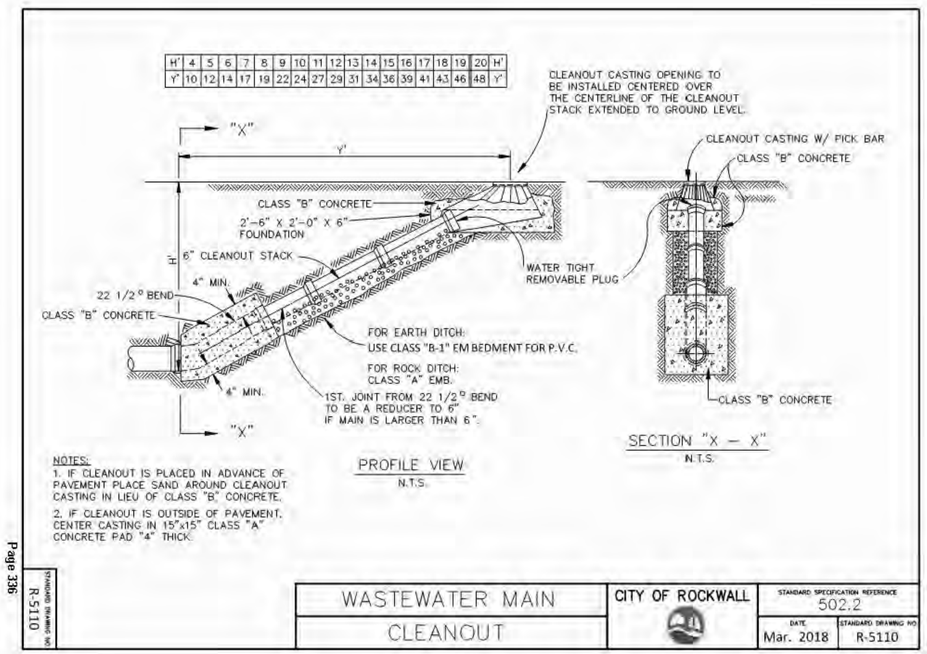


STANDARD DRAWING NO. R-4140	WATER SERVICE INSTALLATION 1 1/2" OR 2" LINE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 502.10.3*
			DATE: Mar. 2018 / STANDARD DRAWING NO.: R-4140

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



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



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

PREPARED BY:
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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

WATER AND SEWER DETAILS

RECORD DRAWING
December 06, 2022
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RELEASED FOR CONSTRUCTION
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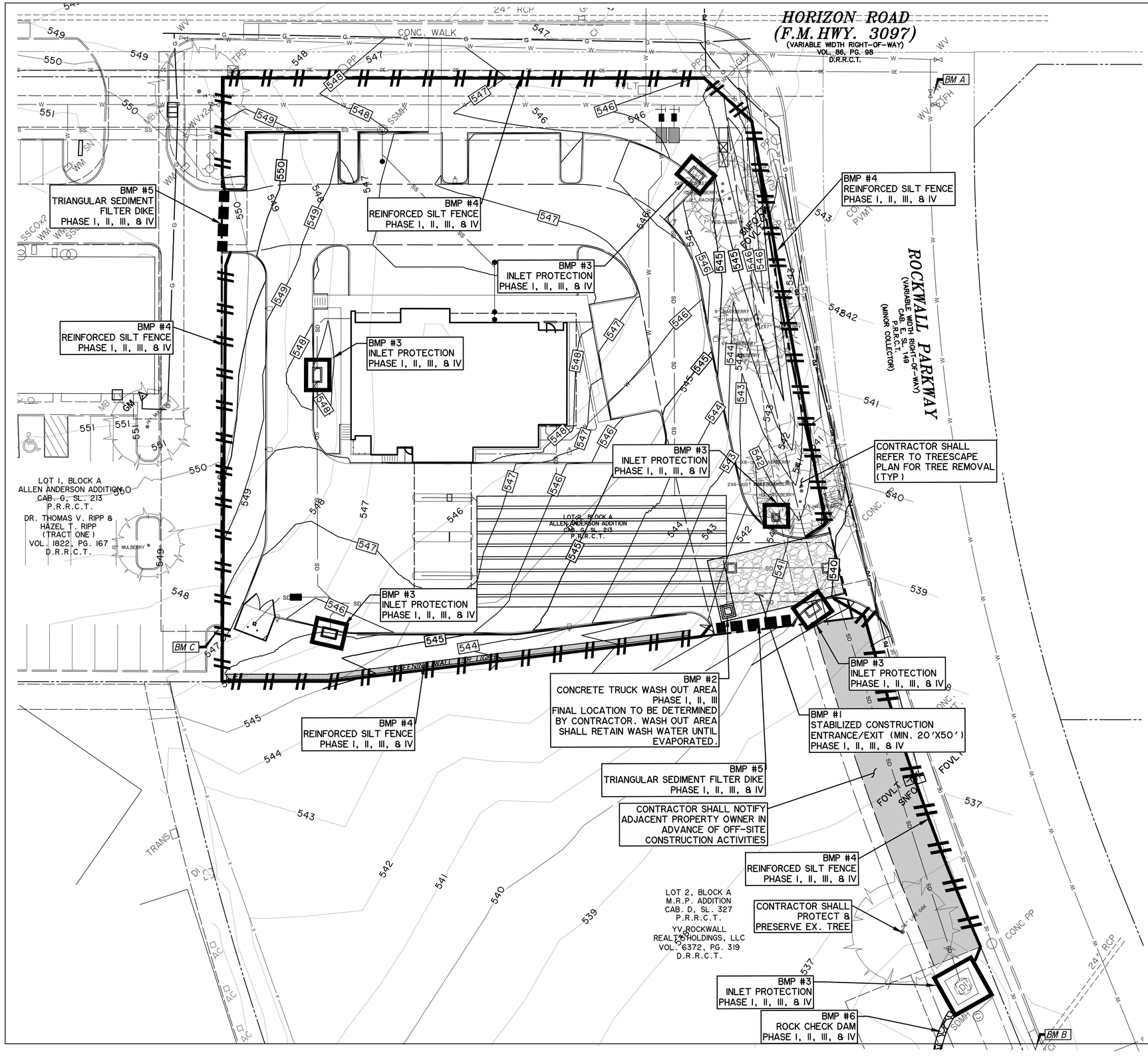
CITY _____ DATE _____

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/21/2022
WA# 21089

SHEET NO. C601



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CITY _____ DATE _____

LEGEND

- 680 — EXIST. CONTOUR
- 680 — PROP. CONTOUR
- SILT FENCE
- LOCATION OF STABILIZED CONSTRUCTION ACCESS
- INLET PROTECTION
- TRIANGULAR SEDIMENT FILTER DIKE
- ROCK CHECK DAM
- VEGETATE OFF-SITE DISTURBED AREA

PHASING LEGEND

PHASE I - GRADING
PHASE II - REMAINING UTILITY INSTALLATION
PHASE III - PAVING
PHASE IV - SOIL STABILIZATION/LANDSCAPING

LOT AREA = 1.198 ACRES
OFF-SITE DISTURBED AREA = 0.01 ACRES
TOTAL DISTURBED AREA = 1.210 ACRES

NOTES:
1. ALL LAND DISTURBING ACTIVITIES MUST INCLUDE PROVISIONS FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE CITY OF ROCKWALL EROSION CONTROL DETAILS.
2. MINIMAL BEST PRACTICE MANAGEMENT PRACTICES FOR EROSION CONTROL HAVE BEEN SHOWN ON THIS PLAN. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED AND ADMINISTERED BY CONTRACTOR.
3. CONTRACTOR SHALL PROVIDE STABILIZATION OF DISTURBED AREAS AFTER GRADING OPERATIONS.

RECORD DRAWING
December 06, 2022
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0 20 40 60

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NO.	DESCRIPTION	BY

FROST BANK
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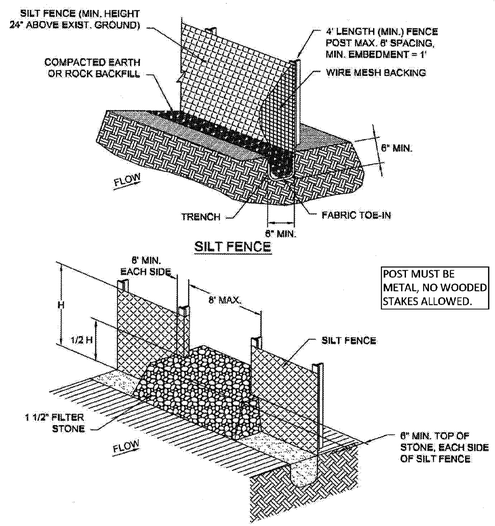
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

EROSION CONTROL PLAN

PRIYA ACHARYA
110146
LICENSED PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 2/25/2022
WA# 21089
SHEET NO. C700

PRINTED: 4/28/2022 STB FILE: WIER-EROSION-CONTROL.STB LAST SAVED: 2/25/2022 5:06 AM SAVED BY: LUISG FILE: C700 EROSION CONTROL PLAN.DWG



SILT FENCE

STONE OVERFLOW STRUCTURE

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

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

SILT FENCE GENERAL NOTES:

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

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

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

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

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

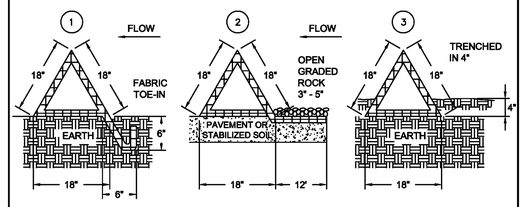
6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.

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

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

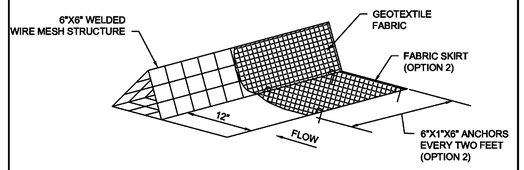
SILT FENCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.5 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1020B

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



CROSS SECTION OF INSTALLATION OPTIONS

1. TOE-IN 6" MIN.
2. FABRIC SKIRT WEIGHTED WITH ROCK
3. TRENCHED IN 4"



ISOMETRIC PLAN VIEW

TRIANGULAR SEDIMENT FILTER DIKE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.8 *	
		DATE OCT. '04	STANDARD DRAWING NO. 1050A

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

TRIANGULAR SEDIMENT FIL

1. DIKES SHALL BE PLACED ABUTTING THE ADJACENT DII

2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE, AND FABRIC SHALL BE OVERLAPPED A MINIMUM OF 12".

3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF TYPE 'A' RIP RAP, OR TOED-IN 6" WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED TO A DEPTH OF 4 INCHES.

4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES AND SKIRTS.

5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6" TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.

6. THE DIKE STRUCTURE SHALL BE 6 GA. 6" X 6" WIRE MESH, 18" ON A SIDE.

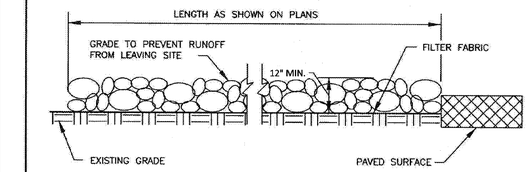
7. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.

8. THE FILTER DIKE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.

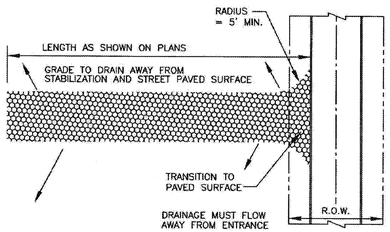
9. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES APPROXIMATELY 6-INCHES IN DEPTH. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

TRIANGULAR SEDIMENT FILTER DIKE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.8 *	
		DATE OCT. '04	STANDARD DRAWING NO. 1050B

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



PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.

Note: No crushed concrete or recycled concrete allowed.

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

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

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

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

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

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

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

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

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

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

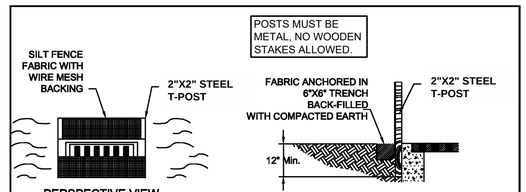
8. PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS NECESSARY.

9. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

10. NO CRUSHED OR RECYCLED CONCRETE ALLOWED.

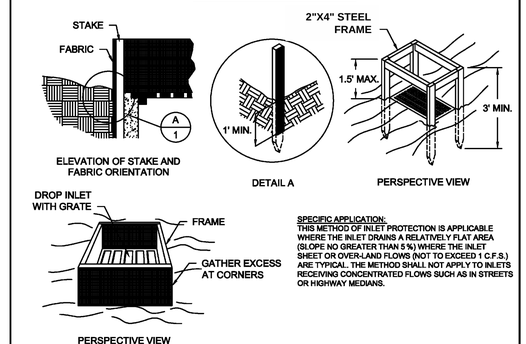
STABILIZED CONSTRUCTION ENTRANCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.11 *	
		DATE Mar. 2018	STANDARD DRAWING NO. R-1070B

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



PERSPECTIVE VIEW

I. STANDARD INSTALLATION



ELEVATION OF STAKE AND FABRIC ORIENTATION

DETAIL A

PERSPECTIVE VIEW

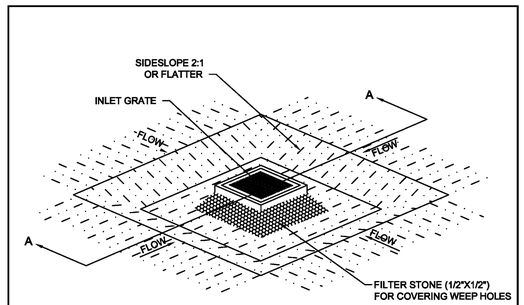
PERSPECTIVE VIEW

SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5 %) WHERE THE INLET SHEET OR OVER-LAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREETS OR HIGHWAY MEDIANS.

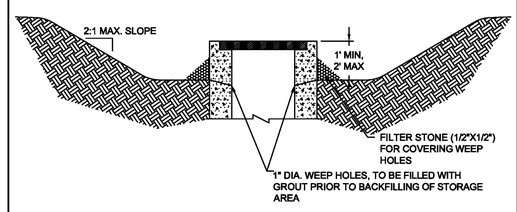
II. ALTERNATE INSTALLATION

INLET PROTECTION FILTER BARRIER	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.14 *	
		DATE OCT. '04	STANDARD DRAWING NO. 1120

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



ISOMETRIC PLAN VIEW



SECTION A-A

INLET PROTECTION	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.14 *	
		DATE OCT. '04	STANDARD DRAWING NO. 1150

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

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NO.	DESCRIPTION	BY

FROST BANK
ROCKWALL FINANCIAL CENTER
NWC OF HORIZON ROAD/FM 3097 & ROCKWALL PARKWAY
ROCKWALL, TEXAS

EROSION CONTROL DETAILS

STATE OF TEXAS
PRIYA ACHARYA
110146
LICENSED
PROFESSIONAL ENGINEER
4/29/2022

LAST SHEET EDIT DATE 4/28/2022
WA# 21089
SHEET NO. C701

PRINTED: 4/28/2022 STB FILE: WIER-PAVING.STB LAST SAVED: 4/28/2022 10:13 AM SAVED BY: KYLEM FILE: C701 EROSION CONTROL DETAILS 21089.DWG