

———— PROPERTY LINE

EXISTING DRAINAGE FLOW DIRECTION

EXISTING DRAINAGE AREA ID

Q100 IN CUBIC FEET PER SECOND

PROPOSED 100-YR FLOODPLAIN LIMITS

AREA IN ACRES

----x FENCE

B• BOLLARD EM® ELECTRIC METER

PP● POWER POLE LIGHT STANDARD

EXISTING DRAINAGE DIVIDE WATER METER — 571 — EXISTING CONTOUR WATER VALVE IRRIGATION CONTROL VALVE FHO FIRE HYDRANT

CLEANOUT MH MANHOLE

TSC ☐ TRAFFIC SIGNAL CONTROL TSP • TRAFFIC SIGNAL POLE

TELE ☐ TELEPHONE BOX 

EXISTING. 24" STORM

(SEE NOTE 4)

U.P./DALLAS GARLAND N.E.

STORM SEWER SYSTEM BY OTHERS PER JUSTIN RD DESIGN PLANS

ROCKWALL STEEL CO., INC. (VOL. 752, PG. 28)

B-1 5.56 23.3

FP • FLAG POLE EXISTING DRAINAGE CRITERIA: SIGN TRAFFIC SIGN

## Q=(C)(I)(A)

EXISTING DRAINAGE AREA TABLE							
DRAINAGE AREA ID	AREA (acres)	С	Tc (minutes)	STORM FREQUENCY	I <sub>100</sub> (inch/hour)	Q <sub>100</sub> (cfs)	
B-1	5.56	N/A	N/A	100	N/A	23.3	* SEE NOTE 2
B-2	15.44	0.90	10	100	9.80	136.2	* SEE NOTE 3
B-3	3.57	0.90	10	100	9.80	31.5	
B-3.1	0.53	0.90	10	100	9.80	4.7	
B-3.3	2.57	0.90	10	100	9.80	22.7	
B-3.4	0.70	0.90	10	100	9.80	6.2	
B-4	1.80	0.90	10	100	9.80	15.9	
B-4.1	0.55	0.90	10	100	9.80	4.9	
B-4.3	0.52	0.90	10	100	9.80	4.6	
A-12	2.63	0.90	10	100	9.80	23.2	
A-13.4	0.56	0.90	10	100	9.80	4.9	
A-14	0.41	0.90	10	100	9.80	3.6	

NOTES:

1. DRAINAGE DIVIDES TAKEN FROM DRAINAGE AREA MAP PREPARED FOR "JUSTIN ROAD FROM INDUSTRIAL ASSOCIATED TO A ASSOCIATED BOULEVARD TO JOHN KING BOULEVARD, ROCKWALL COUNTY, TEXAS", PREPARED BY WEIR & ASSOCIATES, INC., DATED JAN. 01, 2014.

2. DRAINAGE AREA B-1 IS DETAINED THROUGH ORIFICE OPENINGS IN BOTTOM OF SCREEN WALL. Q<sub>100</sub> SHOWN IS THE DETAINED RUNOFF VALUE AND WAS OBTAINED FROM THE DRAINAGE AREA MAP PREPARED FOR "JUSTIN ROAD FROM INDUSTRIAL BOULEVARD TO JOHN KING BOULEVARD, ROCKWALL COUNTY, TEXAS", PREPARED BY WEIR & ASSOCIATES, INC., DATED JAN. 01, 2014.

FOR "JUSTIN ROAD FROM INDUSTRIAL BOULEVARD TO JOHN KING BOULEVARD, ROCKWALL COUNTY, TEXAS", PREPARED BY WEIR & ASSOCIATES, INC., DATED JAN. 01, 2014. THE PROPOSED 6'X4' BOX IN JUSTIN ROAD WAS DESIGNED FOR ALL OF B-2; HOWEVER, BASED ON SURVEYED CONDITIONS A PORTION OF B-2 DRAINS TO AN EXISTING 24" STORM DRAIN THAT DRAINS NORTH TOWARDS THE RAILROAD. THE PROPOSED SITE DESIGN UTILIZES THIS 24" SYSTEM AND THE PROPOSED RUNOFF DOES NOT EXCEED THE EXISTING RUNOFF CONDITIONS TO THIS SYSTEM (REFER TO NOTE 4, THIS SHEET). 4. EXISTING FLOW TO EX. 24" HEADWALL NORTH OF SITE IS 30.05 CFS:

B-2A (EXISTING CONDITION @ C=0.9 (PAVED), $T_C$ =10 MIN, I=9.8 IN/HR) = 24.43 CFS B-2A (EXISTING CONDITION @ C=0.3 (GRASS FIELD),  $T_c=20$  MIN, I=8.40 IN/HR) = 5.62 CFS 30.05 CFS

PROPOSED FLOW TO EX. 24" HEADWALL NORTH OF SITE IS 6.88 CFS (REF: DA 2, SHEET C3.2). THE PROPOSED FLOW TO THE EXISTING 24" HEADWALL NORTH OF THE SITE IS LESS THAN THE EXISTING FLOW TO SAID HEADWALL.

NOTE: 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.

## **RECORD DRAWING**

THE SIGNED AND SEALED CONSTRUCTION DOCUMENT HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT. THE INFORMATION SHOWN ON THIS RECORD DRAWING, WHICH WAS PROVIDED BY THE CONTRACTOR, OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENONEERS OF ANNOT BE VEHICLED FOR WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. PACHECO KOCH SHALL ASSUME NO LIABILITY FOR ANY CHANGES MADE DURING CONSTRUCTION THAT WERE NOT SPECIFICALLY APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF PACHECO KOCH.

ENGINEER OF RECORD: STEVEN HEILBRUN, P.E. CONTRACTOR: BOB MOORE CONSTRUCTION, INC. DATE REVISED: 09/29/2016

09/29/2016 RECORD DRAWINGS NO. DATE REVISION Pacheco Koch

Total Road, Suite 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-14439

## TX REG. SURVEYING FIRM LS-101938-05 EXISTING DRAINAGE AREA MAP 5

**CHANNELL BTS** 

NWC JUSTIN RD. & JOHN KING BLVD. **CHANNELL SUBDIVISION LOT 2, BLOCK A** 

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS DATE SCALE NOTES DESIGN DRAWN

NOV 2014 C3.1 1"=100' PK FILE: 3273-14.192 DWG FILE: 3273-14.192DM.DWG

(DIESEL evaluation failed)

A-12 2.63 23.2

LOT 2, BLOCK A SPR PACKAGING ADDITION (CAB. H, SLIDE 155)

ROAD

NAN A. SMART, W.I. LOFLAND & JULIANA BOND (VOL. 70, PG. 183)