CONSTRUCTION DRAWINGS
FOR
LOLLICUP USA WAREHOUSE

CITY OF ROCKWALL
"THE NEW HORIZON"

RECORD DRAWINGS
MARCH 6, 2018

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MIKE TOWNSEND

RICK CROWLEY * CITY MANAGER

SITE ADDRESS – 3201 CAPITAL BLVD. ROCKWALL, TX 75032
PROJECT NO. – SP2017-042
SUBDIVISION – ROCKWALL TECHNOLOGY PARK, PHASE 2
BLOCK – A
LOT NO. – 2
PARCEL NO. – 0125-000-0002-01-0R

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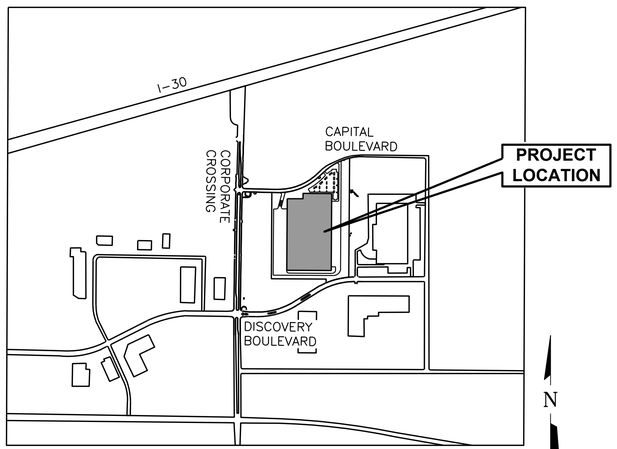

VICINITY MAP

0 1000' 2000'
SCALE IN FEET

SHEET	DESCRIPTION
	COVER
	FINAL PLAT
C00-00	APPROVED SITE PLAN
C00-01	GENERAL NOTES
C01-00	PAVING AND DIMENSION CONTROL PLAN
C01-01	PAVING AND DIMENSION CONTROL PLAN
C01-02	COORDINATE POINTS
C02-00	OVERALL GRADING AND EROSION CONTROL PLAN
C02-01	DETAILED GRADING PLAN
C02-02	DETAILED GRADING PLAN
C02-03	DETAILED PARKING LOT GRADING PLAN
C03-00	DRAINAGE AREA MAP AND CALCULATIONS
C03-01	PROJECT CALCULATIONS
C04-00	OVERALL STORM DRAINAGE PLAN
C04-01	OVERALL STORM DRAINAGE PLAN
C04-02	STORM DRAIN LINE A PLAN AND PROFILE
C04-03	STORM DRAIN LINE A PLAN AND PROFILE
C04-04	STORM DRAIN LINE B PLAN AND PROFILE
C04-05	STORM DRAIN LINE B PLAN AND PROFILE
C04-06	STORM DRAIN LINE B PLAN AND PROFILE
C04-07	STORM DRAIN LINE B PLAN AND PROFILE
C04-08	STORM DRAIN LINE B PLAN AND PROFILE
C04-09	STORM DRAIN LINE C PLAN AND PROFILE
C04-10	STORM DRAIN LINE D-1 PLAN AND PROFILE
C04-11	STORM DRAIN LINE D-1 PLAN AND PROFILE
C04-12	STORM DRAIN LINE D-1 PLAN AND PROFILE
C04-13	STORM DRAIN LINE D-2 PLAN AND PROFILE
C04-14	STORM DRAIN LINE E AND F PLAN AND PROFILE
C04-15	STORM DRAIN B LATERALS
C04-16	STORM DRAIN D, B-7, AND B-8 LATERALS
C05-00	OVERALL UTILITY PLAN
C05-01	OVERALL UTILITY PLAN
C05-02	SANITARY SEWER PLAN AND PROFILE
C06-00	PAVING DETAILS
C06-01	EROSION CONTROL DETAILS
C06-02	TXDOT SAFETY END TREATMENT DETAILS

REVISION

-ISSUED FOR REVIEW – 02-02-2018
-SECOND REVIEW – 03-02-2018
-THIRD REVIEW – 03-23-2018
-ISSUED FOR CONSTRUCTION – 04-10-2018
-RECORD DRAWINGS – 03-06-2019

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY BRETT M. BRISTOW P.E. TEXAS NO: 101000 ON 4/10/2018. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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FREESE AND NICHOLS, INC.
RECORD DRAWINGS PREPARED ON: 3/6/2018

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

PROJECT NO. SP2017-042 – LOLLICUP USA WAREHOUSE, ROCKWALL, TX – ROCKWALL TECHNOLOGY PARK, PHASE 2

DATA TABLE

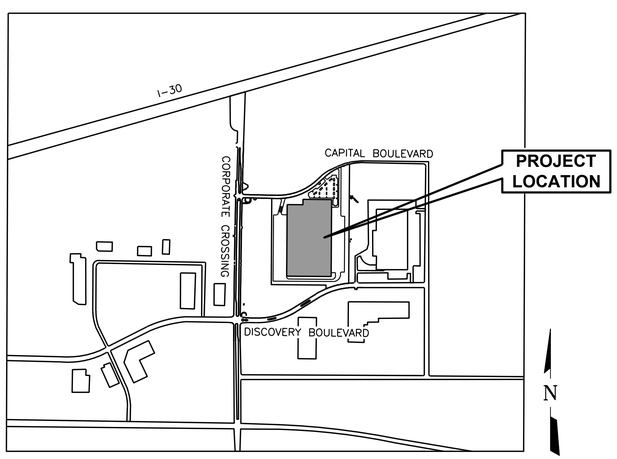
SITE PLAN INFORMATION		
SECTION 2.1		
TOTAL LOT AREA	34.23 AC	
BUILDING AREA	650,000 SF	
SECTION 2.2		
PARKING SPACES	REQUIRED	PROVIDED
	VARIANCE	196 SPACES
ADA SPACES	REQUIRED	PROVIDED
	7	7
DEPTHS/TYPES	TRUCK DRIVE/PARKING	PARKING LOT
PAVEMENT	8" CONCRETE	6" CONCRETE
LIME STABILIZATION	6"	6"

LEGEND

- (2) PARKING SPACE QUANTITY
- 24' FIRELANE, PUBLIC ACCESS, AND UTILITY EASEMENT
- PROPOSED LOT TO BE PLATTED DURING DESIGN (34.23 AC)
- PROPOSED 5' SIDEWALK

NOTES

1. REFER TO LANDSCAPE ARCHITECTURE PLANS FOR LANDSCAPE BUFFER STRIPS ALONG DISCOVERY BLVD. AND CAPITAL BLVD.



VICINITY MAP

0 1000' 2000'
SCALE IN FEET

BENCHMARKS:
BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
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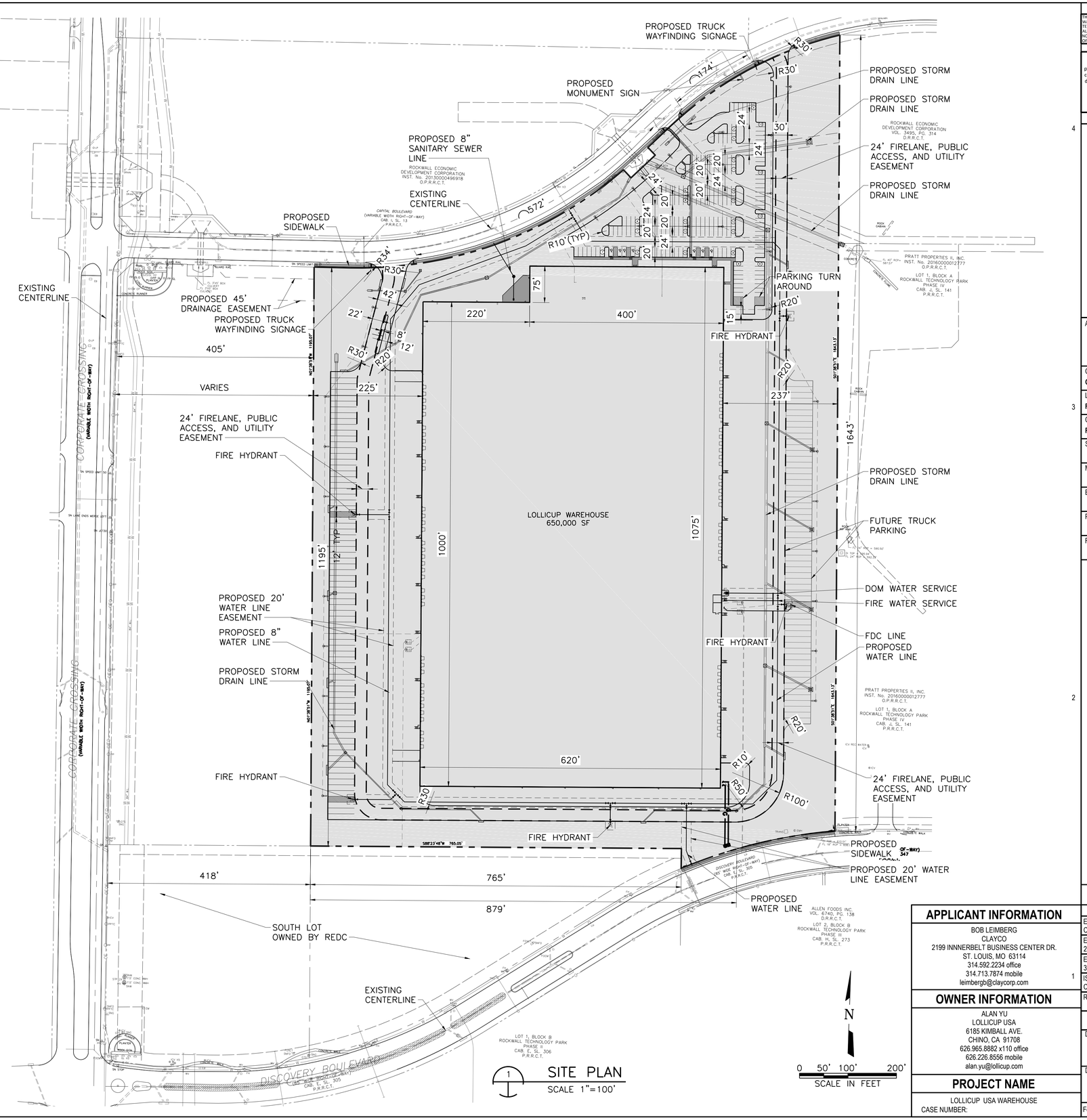

1 SITE PLAN
SCALE 1"=100'

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PROJECT NAME
LOLLICUP USA WAREHOUSE CASE NUMBER:

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3/6/2019

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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
SITE PLAN

DRAWING NO.
C00-00

Forum # 601-03049 Consult.# 101-03049

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GENERAL NOTES

1. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS INCLUDING ALL NOTES, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION, AND ANY SAFETY PRECAUTIONS AND PROGRAMS RELATING IN ANY WAY TO THE CONDITIONS OF THE PREMISES.

2. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED ON AS-BUILT DRAWINGS AND ONE-FOOT TOPOGRAPHIC SURVEY PROVIDED BY WIER & ASSOCIATES, INC. 817-467-7700. INFORMATION PROVIDED ON THESE PLANS MAY OR MAY NOT SHOW ALL CURRENTLY EXISTING STRUCTURES, UTILITIES AND STORM WATER LINES ABOVE OR BELOW THE GROUND. SURVEY INFORMATION PROVIDED IN THESE PLANS MAY NOT SHOW OR INCLUDE THE LOCATION OF ALL EXISTING TREES. CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING AND PROTECTING THESE LINES THROUGHOUT ALL PHASES OF CONSTRUCTION.

3. CONTRACTOR SHALL HAVE IN HIS POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED, CONFORMED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CAREFULLY REVIEW AND BECOME FAMILIAR WITH ALL SITE CERTIFICATES ASSOCIATED WITH THE PROJECT. THE SITE CERTIFICATES CONTAIN SPECIAL CONDITIONS THAT THE CONTRACTOR WILL BE REQUIRED TO FOLLOW.

4. CONSTRUCTION OBSERVATION WILL BE PERFORMED BY REPRESENTATIVES OF THE ENGINEER OR OWNER, GEOTECHNICAL TESTING LAB ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS. THE OWNER SHALL BE RESPONSIBLE FOR MATERIALS TESTING COSTS.

5. THE CONTRACTOR SHALL NOT UNLOAD OR STORE MATERIALS, PERMIT WORKERS TO PARK, NOR PARK EQUIPMENT WITHIN THE STREET OR STREET ROW WHERE THE STREET IS OPEN TO PUBLIC TRAVEL.

6. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL STORM SEWER INLETS, MANHOLES, CLEANOUTS, VALVE BOXES, METER BOXES, FIRE HYDRANTS, GAS MAINS, ELECTRIC AND TELEPHONE DUCT BANKS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.

7. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE INSTALLATION OF ALL UNDERGROUND FACILITIES UNDER THE PROPOSED PAVEMENT PRIOR TO PLACEMENT OF ANY PAVEMENT.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATIONS.

9. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. THIS DOCUMENT IS TO BE SUBMITTED TO THE OWNER AT THE PRECONSTRUCTION CONFERENCE OR PRIOR TO THE START OF CONSTRUCTION.

10. EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO FENCES, GATES, IRRIGATION SYSTEMS, GROUND SURFACES, UTILITY PIPELINES AND DRAINAGE STRUCTURES WHICH ARE REMOVED OR ALTERED TO PERMIT INSTALLATION OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, IN THE SAME LOCATION AND IN CONDITION EQUAL TO OR BETTER THAN THAT FOUND.

11. TREES NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL NOT BE CUT, EXCEPT ON SPECIFIC WRITTEN AUTHORITY OF THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, AND LAWNS UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANY DAMAGE TO THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, OR LAWNS CAUSED BY THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE.

12. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL FRANCHISE UTILITIES BEFORE BEGINNING EXCAVATION. IF NECESSARY, DIG TEST DITCHES TO DETERMINE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY A REPRESENTATIVE OF THE FRANCHISE UTILITIES NOT LESS THAN 72 HOURS BEFORE BEGINNING WORK WITHIN THE AGENCIES' R.O.W.'S OR NEAR THEIR FACILITIES:

ATMOS ENERGY – DINAH WOOD	(972) 485-6277
AT&T – SCOTT ULRICH	(903) 457-2303
ONCOR ELECTRIC DELIVERY – AARON DUNCAN	(214) 218-8072
FEC – BRIAN GREEN	(903) 455-1715
TEXAS 811	(800) 344-8377

13. THE PRESENCE OR ABSENCE OF A REPRESENTATIVE OF THE OWNER ON THE CONSTRUCTION SITE WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF HIS WORK ON THE PROJECT. WHETHER A PROBLEM IS CALLED TO THE CONTRACTOR'S ATTENTION OR NOT, SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO COMPLETE ALL WORK IN ACCORDANCE WITH CITY STANDARDS AND GOOD CONSTRUCTION PRACTICES.

14. ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE PROPOSED CENTERLINE OF THE PAVEMENT, PIPE, ETC. AND THE FACE OF CURB, UNLESS NOTED OTHERWISE.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EXISTING IRRIGATION SYSTEMS WHERE IN CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL WORK SHALL BE PERFORMED BY A TCEQ LICENSED IRRIGATION INSTALLER IN THE STATE OF TEXAS AT THE CONTRACTOR'S EXPENSE.

16. ALL PORTIONS OF THE PROJECT SHALL COMPLY WITH TAS/ADA SPECIFICATIONS. ALL SIDEWALKS SHALL MEET A MAX 5% RUNNING SLOPE AND 2% CROSS SLOPE.

17. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL AND DISPOSAL COSTS OF EXISTING ON SITE IMPROVEMENTS REMOVED DURING CONSTRUCTION.

18. ALL SIGNS PLACED OR ADJUSTED BY CONTRACTOR SHALL BE RELOCATED IN THEIR ORIGINAL LOCATION.

19. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ACCESS DURING CONSTRUCTION, ONE DRIVE/FIRE LANE SHALL REMAIN OPEN AT ALL TIMES PER CITY STANDARDS.

20. CONTRACTOR SHALL PROTECT ANY TREES TO REMAIN AS SHOWN IN LANDSCAPE ARCHITECTURE SHEETS.

BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
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ELEV=599.67

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PAVING NOTES

1. SITE PAVEMENT SHALL BE REINFORCED W/#3@18"C/C EW, UNLESS NOTED OTHERWISE.

2. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.

3. DUMMY JOINTS SHALL BE SAWED IN THE PAVEMENT ON THIS PROJECT. DUMMY JOINTS WILL BE SPACED 12–15 FEET ON CENTER, BASED ON GEOTECHNICAL REPORT BY ALPHA TESTING, UNLESS DIRECTED OTHERWISE BY THE CITY. SPACING VARIATIONS SHALL BE MADE AT BLOCKOUTS, CONSTRUCTION JOINTS AND STREET INTERSECTIONS TO LINE UP WITH EXISTING PAVING JOINTS AS DIRECTED BY THE OWNER. ALL DUMMY JOINTS WILL BE SAWED NOT LATER THAN 12 HOURS AFTER THE PLACEMENT OF THE PAVEMENT, AS DIRECTED BY THE OWNER. SEE THE STANDARD CONSTRUCTION DETAILS FOR ADDITIONAL JOINT INFORMATION.

4. CONTRACTOR SHALL SUBMIT A DETAILED PAVEMENT JOINT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL A MINIMUM OF 3 BUSINESS DAYS PRIOR TO PLACEMENT OF PAVEMENT ON THE SITE. EXPANSION JOINTS SHALL BE AT A MAXIMUM SPACING OF 60 FEET. SIDEWALKS SHALL HAVE TROWEL JOINTS EQUAL TO THE SIDEWALK WIDTH

5. ALL PARKING, DRIVE AISLES, LOADING DOCK, AND SIDEWALKS SHALL HAVE A BROOM FINISH.

GRADING & EROSION CONTROL NOTES:

1. FINAL GRADES WITHIN 5 FT OF THE STRUCTURES SHOULD BE ADJUSTED TO SLOPE AWAY FROM THE STRUCTURES AT A MINIMUM SLOPE OF 2 PERCENT.

2. THE TOP 6" OF THE SUBGRADE PAVEMENT SHOULD BE UNIFORMLY COMPACTED WITH A SHEEPSFOOT COMPACTOR TO A MINIMUM OF 95 PERCENT OF ASTM D698 NEAR, –1 TO +3 PERCENT, THE OPTIMUM MOISTURE CONTENT DETERMINED BY THAT TEST. IT SHOULD BE PROTECTED AND MAINTAINED IN A MOIST CONDITION UNTIL THE PAVEMENT IS PLACED.

3. AFTER COMPLETION OF THE NECESSARY STRIPPING, CLEARING, AND EXCAVATING AND PRIOR TO PLACING ANY REQUIRED FILL, THE EXPOSED SOIL SUBGRADE SHOULD BE CAREFULLY EVALUATED BY PROBING AND TESTING. ANY UNDESIRABLE MATERIAL (ORGANIC MATERIAL, WET, SOFT, OR LOOSE SOIL) STILL IN PLACE SHOULD BE REMOVED.

4. THE EXPOSED SOIL SUBGRADE SHOULD BE FURTHER EVALUATED BY PROOF-ROLLING WITH A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK OR SIMILAR EQUIPMENT WEIGHING APPROXIMATELY 20 TONS TO CHECK FOR POCKETS OF SOFT OR LOOSE MATERIAL HIDDEN BENEATH A THIN CRUST OF POSSIBLY BETTER SOIL.

5. PRIOR TO PLACEMENT OF ANY FILL, THE EXPOSED SOIL SUBGRADE SHOULD THEN BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED AS OUTLINED IN GEOTECHNICAL REPORT.

6. ON-SITE SOILS, FREE OF ROCK OR CONCRETE GREATER THAN 4 INCHES IN ANY DIMENSION AND ANY UNSUITABLE MATERIAL, MAY BE USED AS GENERAL SITE FILL.

7. FILL MATERIALS SHALL BE SPREAD IN LOOSE LIFTS, LESS THAN 9 INCHES THICK, AND UNIFORMLY COMPACTED TO 95% STD PROCTOR WITH A SHEEPSFOOT COMPACTOR.

8. ALL SODDING, GRASSING AND LANDSCAPING IN NON-PAVED AREAS SHALL BE AS SHOWN ON THE LANDSCAPE PLAN PROVIDED BY THE LANDSCAPE ARCHITECT. ALL RIGHT-OF-WAYS TO BE SODDED PRIOR TO CITY ACCEPTANCE.

9. INTERIOR BUILDING FLOOR SLABS PLACED ON GRADE WITH A 2 FOOT CAP OF SELECT FILL. REFER TO STRUCTURAL PLANS AND SPECS FOR DETAILS.

10. MUD & SILT FROM TIRES SHOULD NOT BE TRACKED ONTO ROADWAYS. A TEMPORARY WHEEL WASH STATION WILL BE REQUIRED IF NECESSARY TO MITIGATE SILT FROM ENTERING THE ROADWAY.

11. CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH TCEQ GENERAL PERMIT TXR150000 FOR CONTROL OF SILT AND EROSION.

12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO POST A CONSTRUCTION SITE NOTICE PRIOR TO STARTING CONSTRUCTION ACTIVITIES AND TO PROVIDE A SIGNED COPY TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, WHICH RECEIVES RUNOFF FROM THE SITE.

13. CONTRACTOR WILL BE RESPONSIBLE FOR GENERATING THE PROJECT SWPPP. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY THROUGHOUT ALL PHASES OF THE PROJECT TO SELECT, INSTALL, INSPECT, AND MAINTAIN STORM WATER POLLUTION PREVENTION MEASURES IN ACCORDANCE WITH TCEQ GENERAL PERMIT TXR150000 AND ANY APPLICABLE LOCAL REQUIREMENTS.

14. LOCATION SHOWN FOR SILT FENCES OR EQUIVALENT IS ONLY SCHEMATIC. LENGTH OF SILT FENCES OR EQUIVALENT AND LOCATIONS SHALL BE PER FINAL LOCATIONS ESTABLISHED IN THE FIELD.

15. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED. CURB INLET PROTECTION SHALL CONSIST OF PRE-MANUFACTURED SILT FENCE OR EQUIVALENT WITH STEEL BACKING FABRICATED TO FIT THROAT OPENING OF INLET.

16. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE AS INDICATED ON THE LANDSCAPE PLANS. PLANT MATERIALS MUST BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDROSEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1 TO AUGUST 30). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE.

17. PRIOR TO COMMENCING ANY CONSTRUCTION, A CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AND EROSION CONTROL PROTECTION SHALL BE INSTALLED AT THE LOCATION(S) SHOWN.

18. AT THE COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE LANDSCAPE PLANS.

19. EROSION CONTROL PROTECTION AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED.

20. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT 1" GRASS COVERAGE OF 75% OF DISTURBED AREAS IS PROPERLY MAINTAINED PRIOR TO CITY ACCEPTANCE. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED OR RE-SODDED, IF NECESSARY.

21. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ROCKWALL STANDARDS, AND BE GOVERNED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 4TH EDITION.

22. IN CASE OF CONFLICT OR CONTRADICTIONS BETWEEN THE CONSTRUCTION STANDARDS OF THE CITY OF ROCKWALL AND THE NCTCOG STANDARDS, THE FOLLOWING HEIRARCHY SHALL PRESIDE: CITY OF ROCKWALL CONSTRUCTION STANDARDS DETAILS, CITY OF ROCKWALL STANDARD GENERAL NOTES, STANDARD FORM OF AGREEMENT, NCTCOG SPECIFICATIONS.

STRIPING NOTES

1. ALL SIGNAGE AND STRIPING SHALL CONFORM TO THE TEXAS DEPARTMENT OF TRANSPORTATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

2. PARKING LOT STRIPING SHALL BE 4" WHITE STRIPES IN THE LOCATIONS SHOWN.

3. FIRE LANE STRIPING SHALL BE AS SPECIFIED BY THE CITY OF ROCKWALL, OR INTERNATIONAL FIRE CODE CURRENT EDITION.

4. PARKING SPACES ARE 20' LONG x 9' WIDE. AISLES FOR HANDICAP SPACES SHALL BE 9' WIDE FOR SPACING UNIFORMITY WITH A 4" STRIPE ON A DIAGONAL 3' CENTER TO CENTER. SPACES SHALL BE MARKED WITH A 3' HIGH ADA STANDARD HANDICAP LOGO. HANDICAP SIGNS SHALL BE PLACED TO MARK EACH SPACE. ALL HANDICAP STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH TEXAS ACCESSIBILITY STANDARDS & ADA REQUIREMENTS.

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3

LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

2

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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
GENERAL NOTES

DRAWING NO.
C00-01

Forum # 601-03049 Consult.# 101-03049

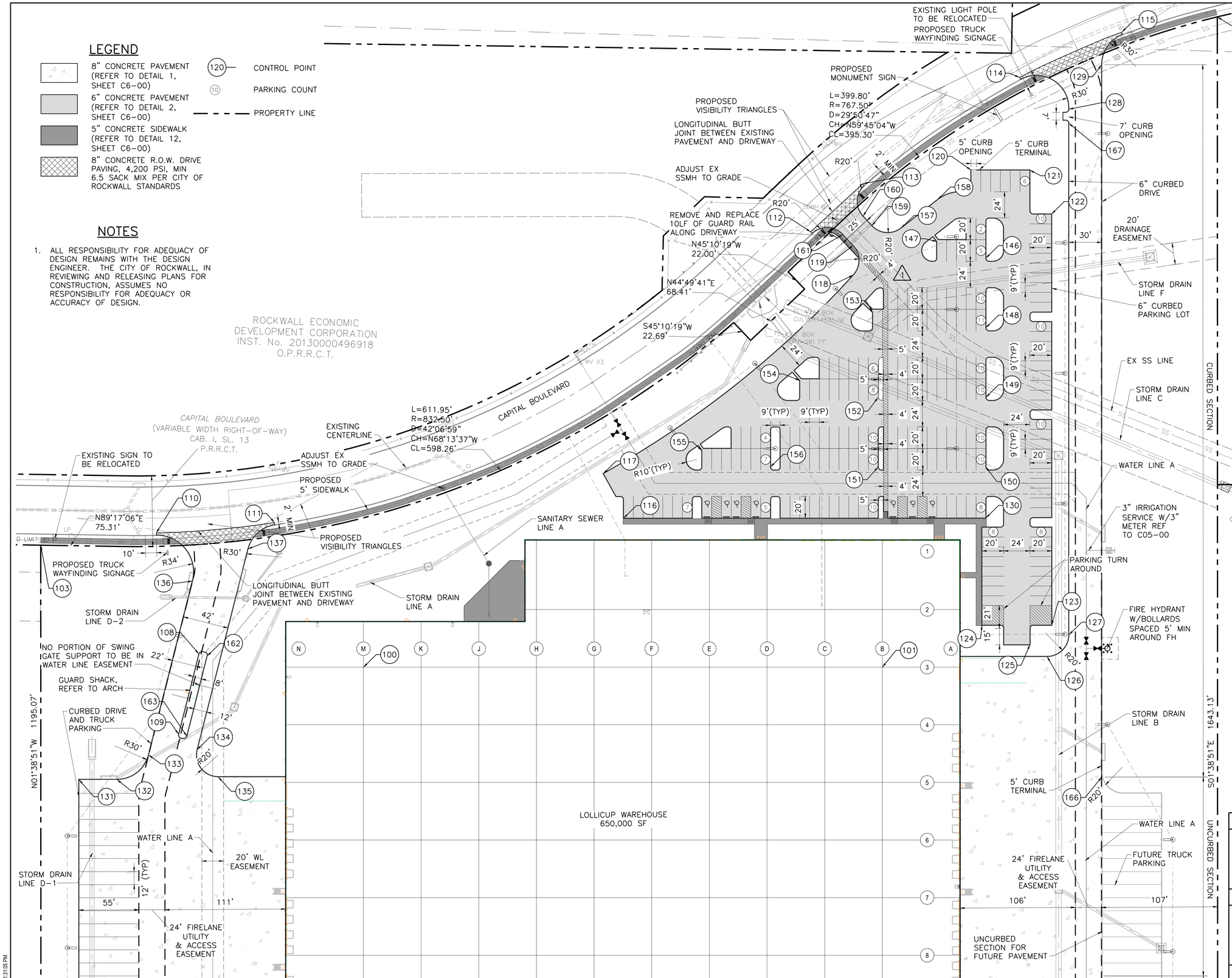
E D C B A

LEGEND

- 8" CONCRETE PAVEMENT (REFER TO DETAIL 1, SHEET C6-00)
- 6" CONCRETE PAVEMENT (REFER TO DETAIL 2, SHEET C6-00)
- 5" CONCRETE SIDEWALK (REFER TO DETAIL 12, SHEET C6-00)
- 8" CONCRETE R.O.W. DRIVE PAVING, 4,200 PSI, MIN 6.5 SACK MIX PER CITY OF ROCKWALL STANDARDS
- (120) CONTROL POINT
- (10) PARKING COUNT
- PROPERTY LINE

NOTES

1. 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.



MATCHLINE SHEET C01-01

BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE. ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES. ELEV=599.67

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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
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STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ADA REVISIONS 1	6/22/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
PAVING AND DIMENSION CONTROL PLAN

DRAWING NO.
C01-00

Forum # 601-03049 Consult.# 101-03049

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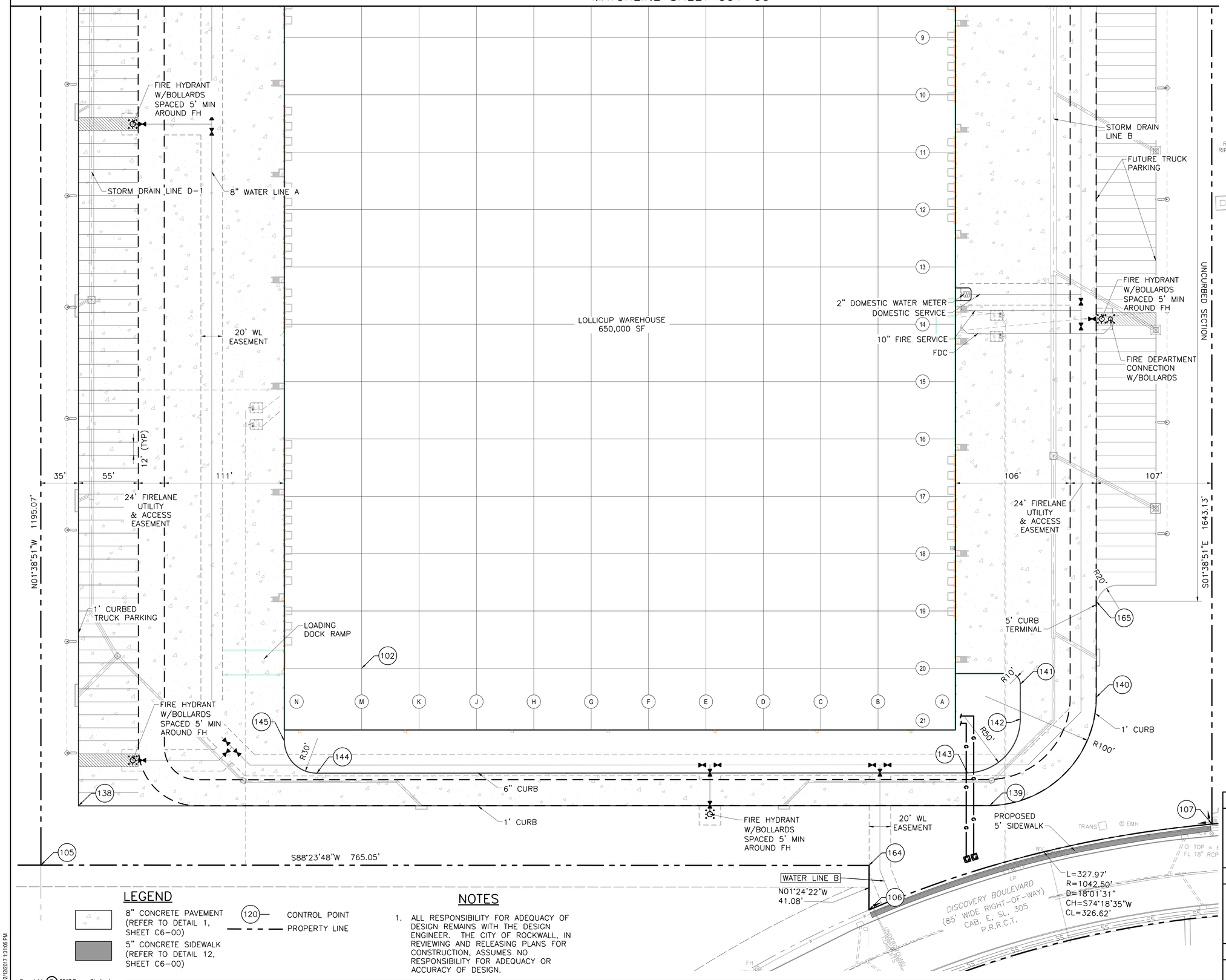
MATCHLINE SHEET C01-00



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ELEV=599.67

LEGEND

- 8" CONCRETE PAVEMENT (REFER TO DETAIL 1, SHEET C6-00)
- 5" CONCRETE SIDEWALK (REFER TO DETAIL 12, SHEET C6-00)
- (120) CONTROL POINT
- PROPERTY LINE

NOTES

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FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

KEY MAP

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
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RECORD DRAWING	3/6/2019

DRAWING TITLE
PAVING AND DIMENSION CONTROL PLAN

DRAWING NO.
C01-01

Forum # 601-03049 Consult.# 101-03049

POINT TABLE			
PNT	NORTHING	EASTING	DESCRIPTION
100	7022182.84	2608002.88	COLUMN M3
101	7022196.42	2608479.69	COLUMN B3
102	7021282.21	2608028.52	COLUMN M21
103	7022286.56	2607703.17	PROPERTY CORNER
104	7022803.09	2608770.49	PROPERTY CORNER
105	7021091.98	2607737.53	PROPERTY CORNER
106	7021072.31	2608503.29	PROPERTY CORNER
107	7021160.64	2608817.73	PROPERTY CORNER
108	7022190.75	2607851.27	FACE OF CURB
109	7022116.32	2607834.70	FACE OF CURB
110	7022300.89	2607809.04	SAWCUT CORNER
111	7022313.50	2607917.34	SAWCUT CORNER
112	7022594.82	2608402.42	SAWCUT CORNER
113	7022640.41	2608449.10	SAWCUT CORNER
114	7022742.21	2608590.31	SAWCUT CORNER

POINT TABLE			
PNT	NORTHING	EASTING	DESCRIPTION
115	7022786.39	2608683.04	SAWCUT CORNER
116	7022326.68	2608238.05	FACE OF CURB
117	7022367.08	2608218.26	FACE OF CURB
118	7022556.23	2608442.85	FACE OF CURB
119	7022583.30	2608441.89	FACE OF CURB/ADA RAMP
120	7022655.73	2608548.18	FACE OF CURB
121	7022657.28	2608602.16	FACE OF CURB
122	7022617.38	2608623.32	FACE OF CURB
123	7022239.53	2608634.19	FACE OF CURB
124	7022237.69	2608570.21	FACE OF CURB
125	7022220.96	2608614.71	FACE OF CURB
126	7022210.49	2608630.85	FACE OF CURB
127	7022231.05	2608650.27	FACE OF CURB
128	7022714.30	2608636.51	CURB OPENING
129	7022756.00	2608665.34	FACE OF CURB

1

POINT TABLE			
PNT	NORTHING	EASTING	DESCRIPTION
130	7022336.25	2608570.91	FACE OF CURB
131	7022072.11	2607744.43	FACE OF CURB
132	7022073.10	2607779.33	FACE OF CURB
133	7022096.57	2607807.76	FACE OF CURB
134	7022102.55	2607852.12	FACE OF CURB
135	7022078.21	2607872.21	FACE OF CURB
136	7022257.52	2607843.60	FACE OF CURB
137	7022288.49	2607893.53	FACE OF CURB
138	7021147.76	2607770.75	FACE OF CURB
139	7021171.96	2608612.13	FACE OF CURB
140	7021274.71	2608707.51	FACE OF CURB
141	7021284.87	2608637.20	FACE OF CURB
142	7021252.71	2608638.11	FACE OF CURB
143	7021201.36	2608590.77	FACE OF CURB
144	7021184.08	2607989.81	FACE OF CURB

POINT TABLE			
PNT	NORTHING	EASTING	DESCRIPTION
145	7021213.21	2607958.96	FACE OF CURB
146	7022575.15	2608564.04	FACE OF CURB
147	7022589.22	2608518.62	FACE OF CURB
148	7022511.18	2608565.88	FACE OF CURB
149	7022447.20	2608567.72	FACE OF CURB
150	7022383.23	2608569.56	FACE OF CURB
151	7022380.39	2608470.60	FACE OF CURB
152	7022444.36	2608468.76	FACE OF CURB
153	7022522.45	2608461.51	FACE OF CURB/FLUME
154	7022457.77	2608396.34	FACE OF CURB
155	7022390.81	2608308.23	FACE OF CURB
156	7022377.54	2608371.64	FACE OF CURB
157	7022600.58	2608485.44	FACE OF CURB
158	7022627.68	2608518.23	FACE OF CURB
159	7022601.94	2608458.47	FACE OF CURB

1

POINT TABLE			
PNT	NORTHING	EASTING	DESCRIPTION
160	7022610.45	2608450.07	FACE OF CURB
161	7022593.21	2608432.11	FACE OF CURB
162	7022189.01	2607859.08	FACE OF CURB
163	7022114.58	2607842.51	FACE OF CURB
164	7021113.38	2608502.14	PROPERTY CORNER
165	7021363.45	2608704.99	CURB TERMINUS
166	7022101.16	2608684.23	CURB TERMINUS
167	7022701.30	2608636.88	CURB OPENING

BENCHMARKS:

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ELEV=600.44

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ELEV=599.67

4

3

2

1

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alan.yu@lollicup.com

PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

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TEXAS NO. 120300 ON 06/22/2018
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RECORD DRAWINGS PREPARED ON:
3/6/2019

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FIRE PROTECTION ENGINEER

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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ADA REVISIONS 1	6/22/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
COORDINATE POINTS

DRAWING NO.
C01-02

Forum # 601-03049 Consult.# 101-03049

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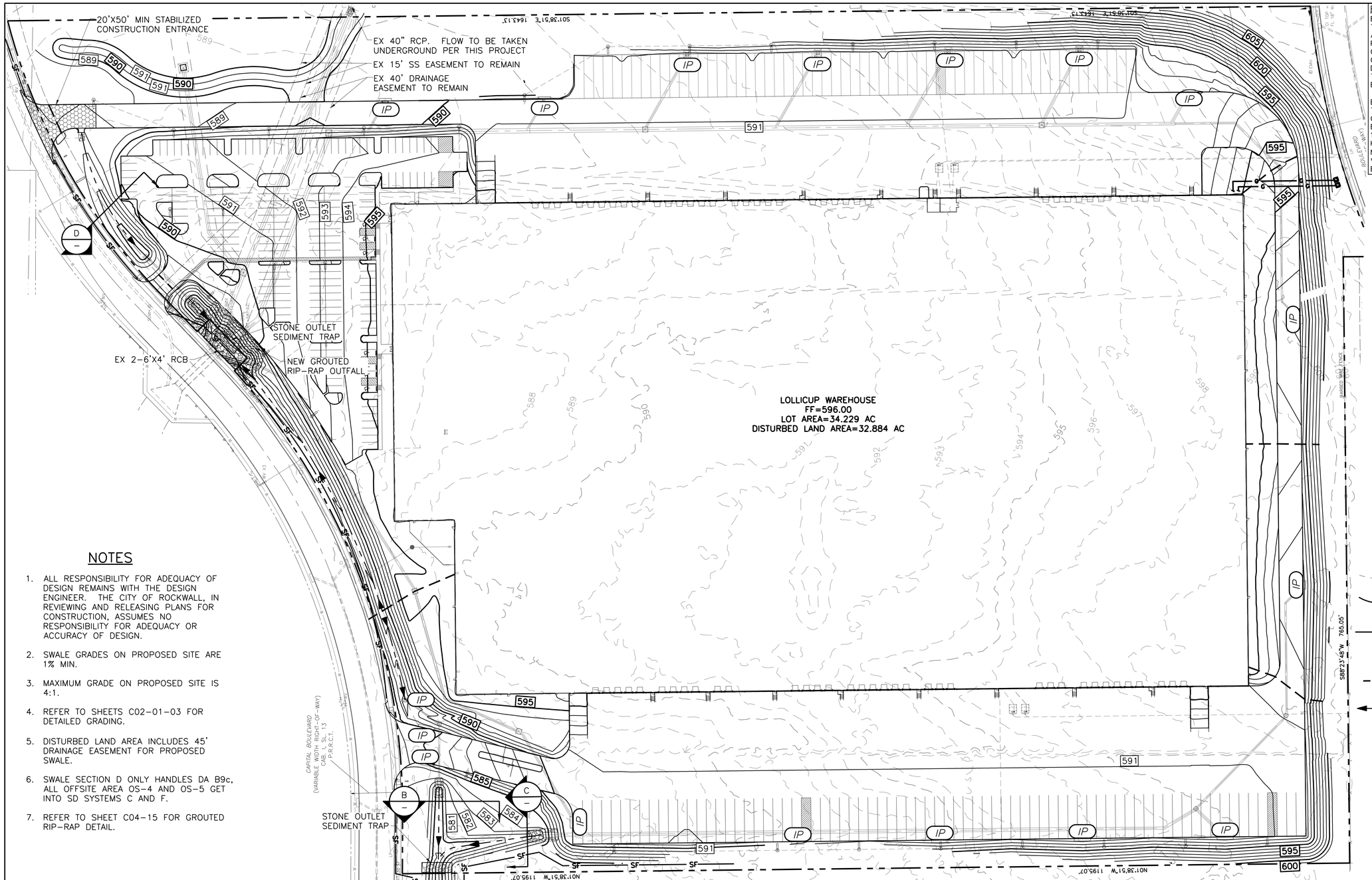
E D C B A



NOTES

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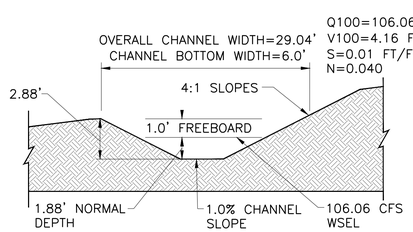
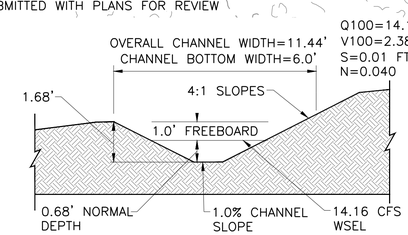
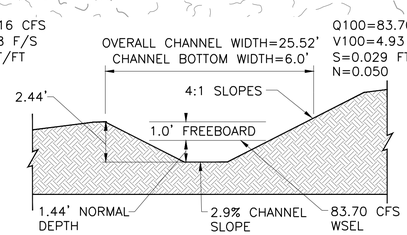
2. SWALE GRADES ON PROPOSED SITE ARE 1% MIN.
3. MAXIMUM GRADE ON PROPOSED SITE IS 4:1.
4. REFER TO SHEETS C02-01-03 FOR DETAILED GRADING.
5. DISTURBED LAND AREA INCLUDES 45' DRAINAGE EASEMENT FOR PROPOSED SWALE.
6. SWALE SECTION D ONLY HANDLES DA B9c, ALL OFFSITE AREA OS-4 AND OS-5 GET INTO SD SYSTEMS C AND F.
7. REFER TO SHEET C04-15 FOR GROUTED RIP-RAP DETAIL.



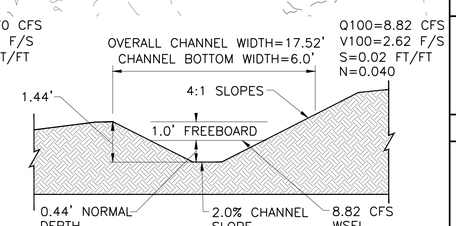
A SWALE CROSS SECTION
NTS



B SWALE CROSS SECTION
NTS



C SWALE CROSS SECTION
NTS



D SWALE CROSS SECTION
NTS

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ELEV=599.67

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- SILT FENCE
- INLET PROTECTION
- GRADE BREAK
- FLOW LINE
- STONE OUTLET SEDIMENT TRAP
- STABILIZED CONSTRUCTION ENTRANCE

N

0 20' 40' 60' 120'
SCALE IN FEET

APPLICANT INFORMATION

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
OVERALL GRADING AND EROSION CONTROL PLAN

DRAWING NO.
C02-00

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:05 PM

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LEGEND

590.00	TOP OF CURB
590.00	TOP OF PAVEMENT
590.00	NATURAL GROUND
590.00	EXISTING SHOT
590	EXISTING CONTOURS
590	PROPOSED CONTOURS
	HIGH POINT
	FLOW LINE

NOTES

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BENCHMARKS:
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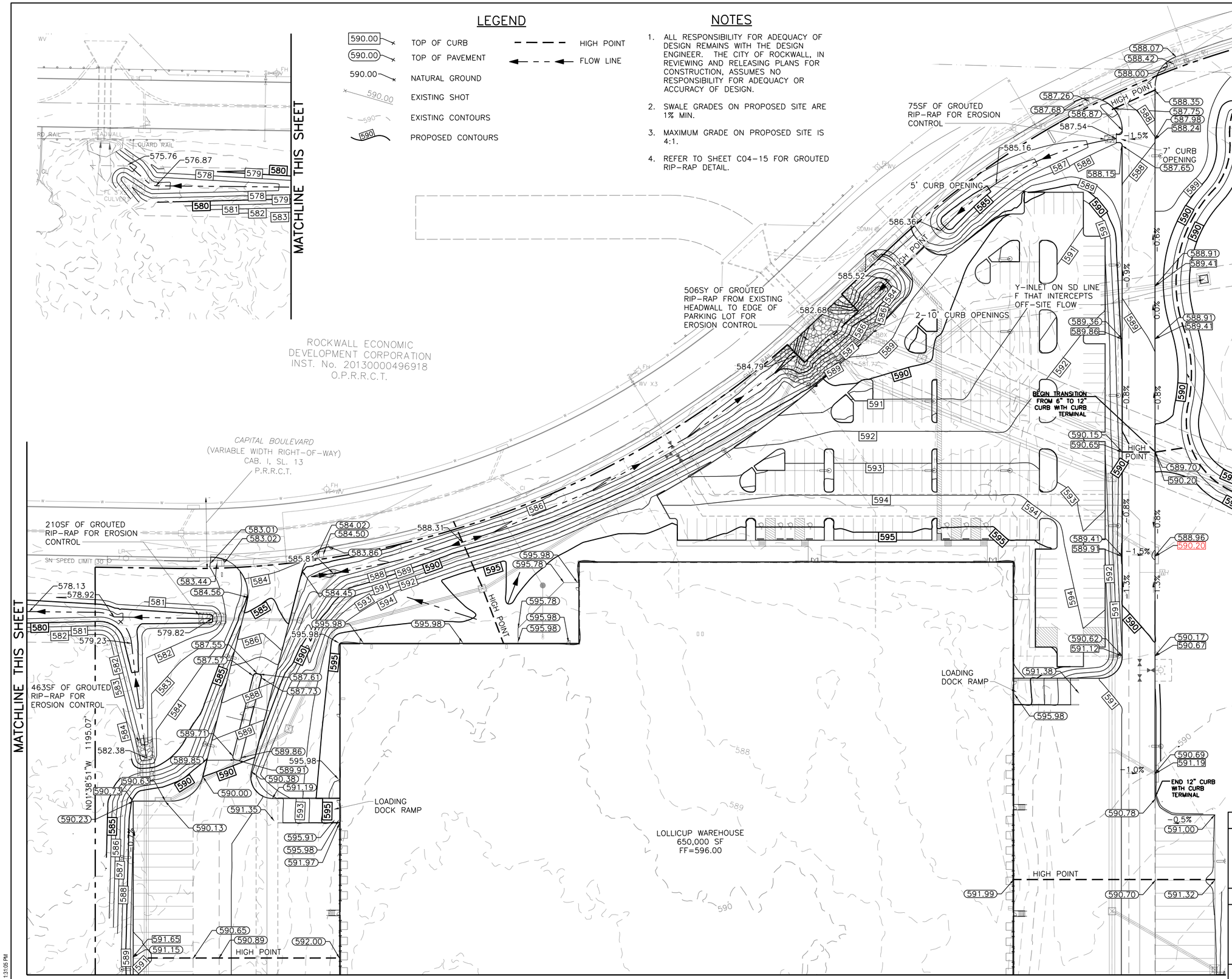

MATCHLINE SHEET C02-02

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Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ASI NO. 5 GAS AND ELECTRIC	8/2/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
DETAILED GRADING PLAN

DRAWING NO.
C02-01

Forum # 601-03049 Consult.# 101-03049

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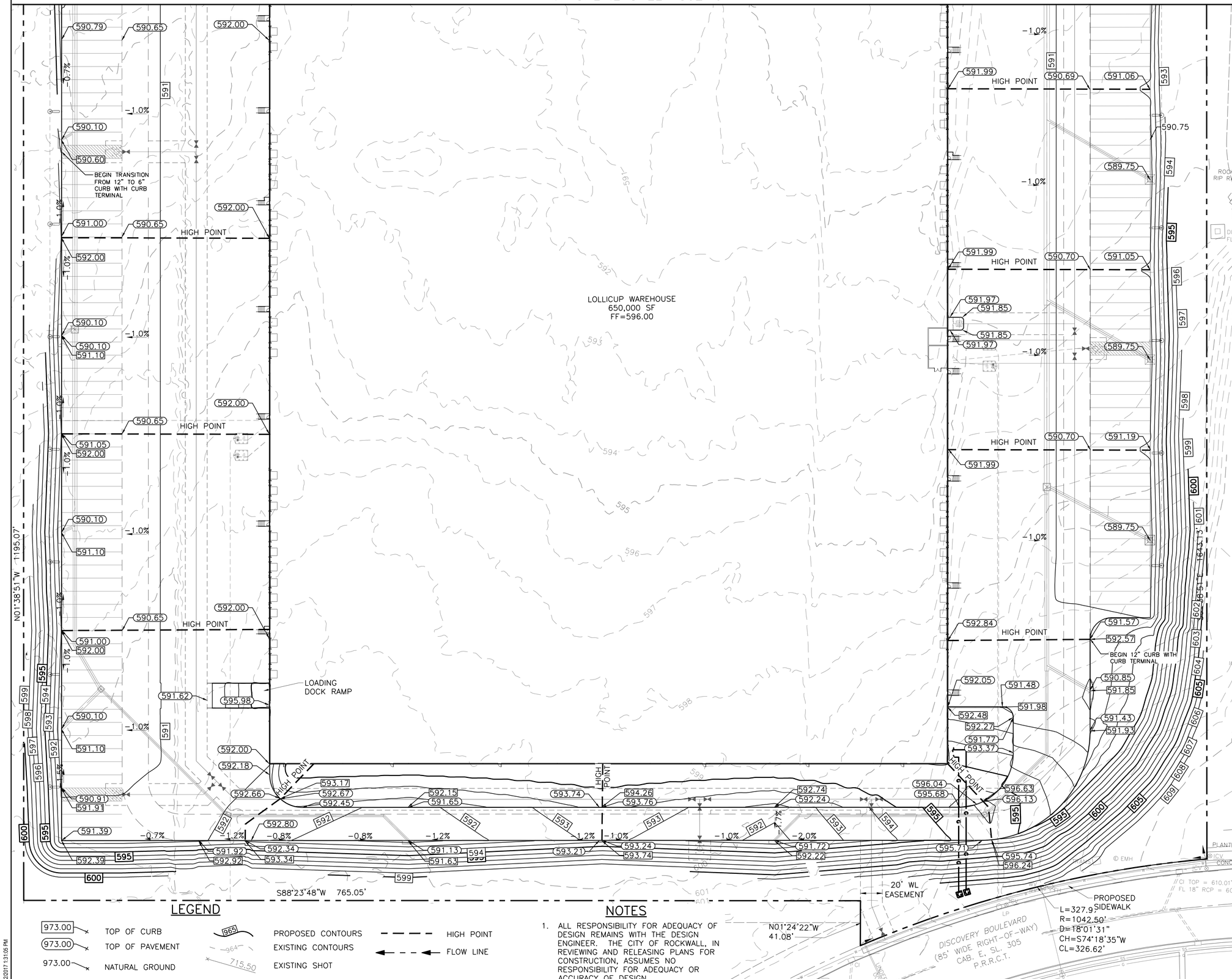
PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

MATCHLINE SHEET C02-01



BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67

KEY MAP

LEGEND

973.00	TOP OF CURB
973.00	TOP OF PAVEMENT
973.00	NATURAL GROUND
965	PROPOSED CONTOURS
964	EXISTING CONTOURS
715.50	EXISTING SHOT
	HIGH POINT
	FLOW LINE

NOTES

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TEXAS NO: 101000 ON 8/2/2018
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RECORD DRAWINGS PREPARED ON:
3/6/2019

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FORUM

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FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ASI NO. 5 GAS AND ELECTRIC	8/2/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
DETAILED GRADING PLAN

DRAWING NO.
C02-02

Forum # 601-03049 Consult.# 101-03049

LEGEND

- 973.00 — TOP OF CURB
- 973.00 — TOP OF PAVEMENT
- 973.00 — NATURAL GROUND
- 715.50 — EXISTING SHOT
- 964 — EXISTING CONTOURS
- 965 — PROPOSED CONTOURS
- GRADE BREAK
- FLOW LINE

NOTES

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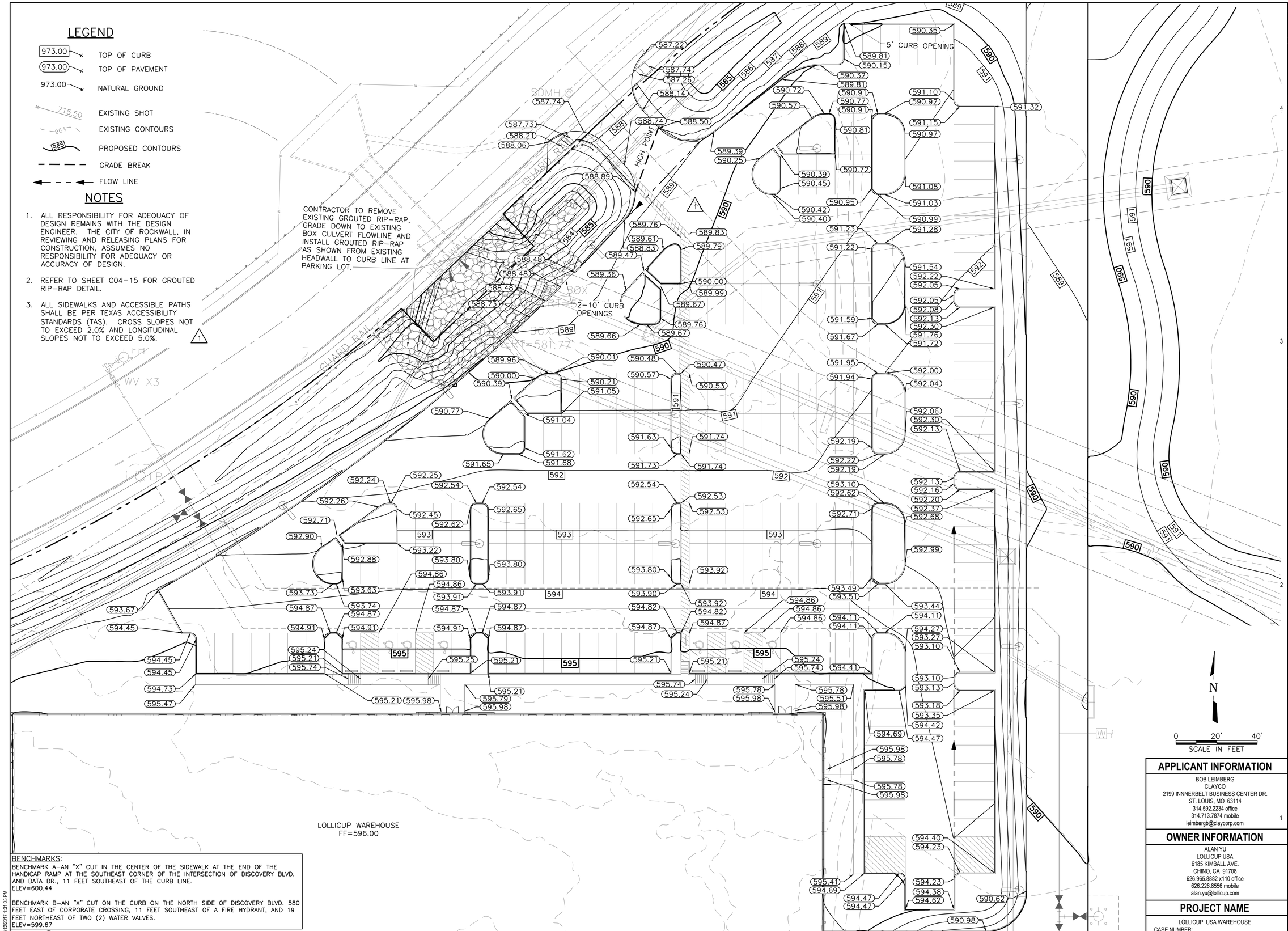
2. REFER TO SHEET C04-15 FOR GROUTED RIP-RAP DETAIL.
3. ALL SIDEWALKS AND ACCESSIBLE PATHS SHALL BE PER TEXAS ACCESSIBILITY STANDARDS (TAS). CROSS SLOPES NOT TO EXCEED 2.0% AND LONGITUDINAL SLOPES NOT TO EXCEED 5.0%. (1)



BENCHMARKS:

BENCHMARK A-AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B-AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67

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ROCKWALL TECHNOLOGY PARK
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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

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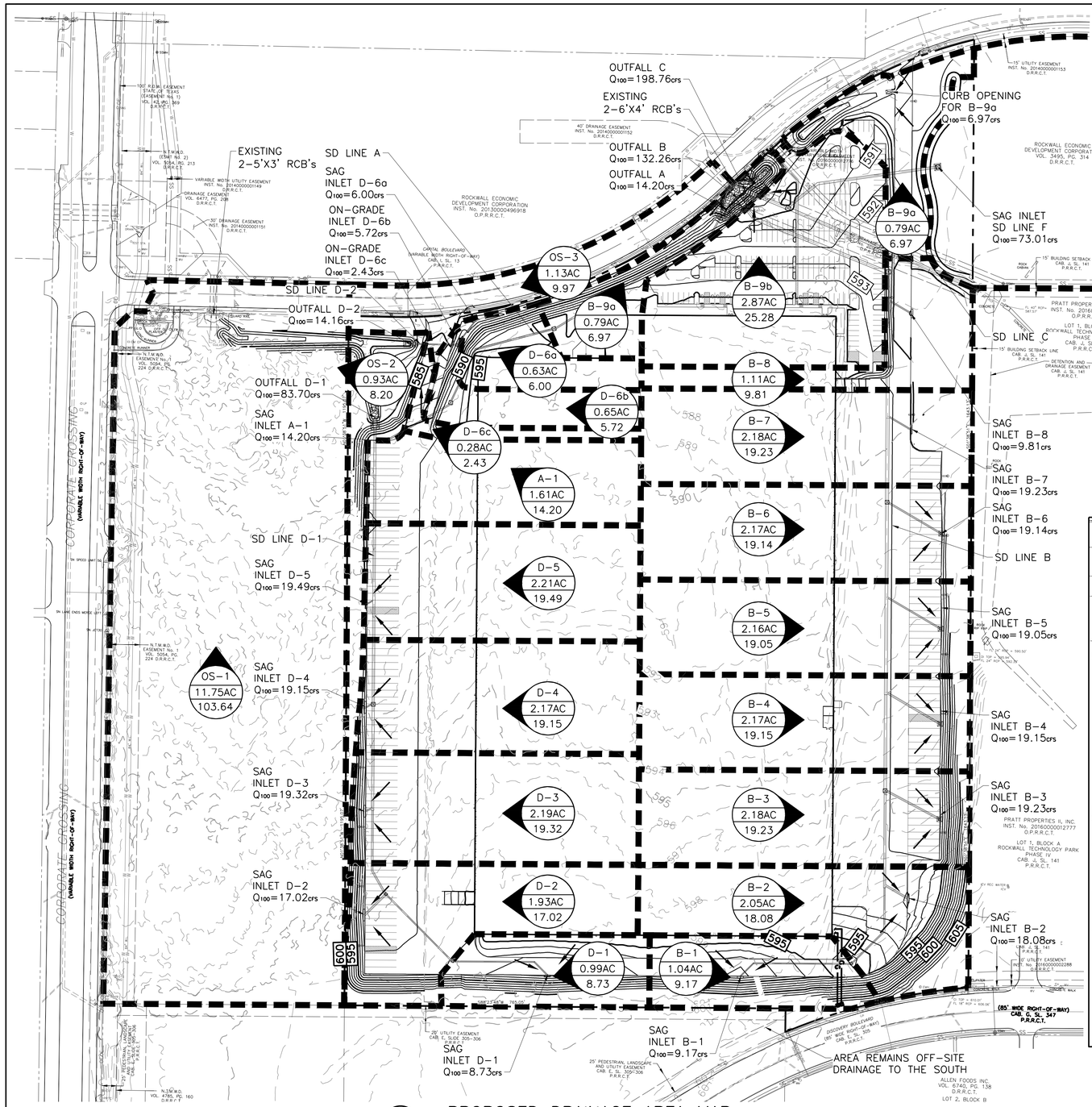
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ADA REVISIONS (1)	6/22/2018
ASI NO. 5 GAS AND ELEC	8/2/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
DETAILED PARKING LOT GRADING PLAN

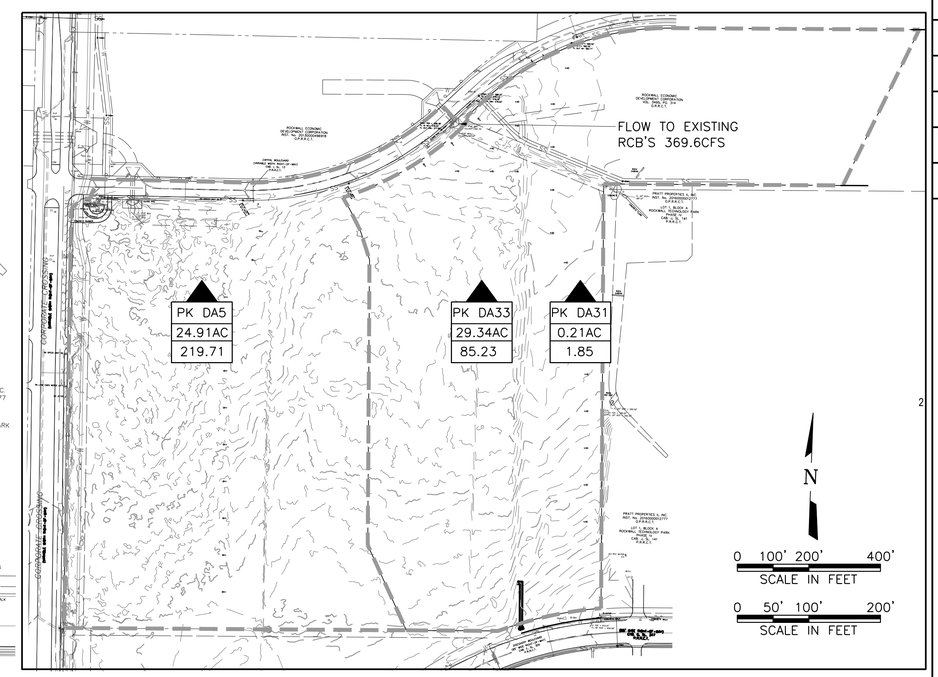
DRAWING NO.
C02-03

Forum # 601-03049 Consult.# 101-03049



1 PROPOSED DRAINAGE AREA MAP

SCALE 1"=100'



2 DESIGN BASIS DRAINAGE AREA MAP

1"=200'

NOTES

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2. "DESIGN BASIS" = EXISTING CONDITIONS

LEGEND

A-1 / 1.61AC / 14.20	PROPOSED DRAINAGE AREA ID AREA IN ACRES Q_{100} IN CUBIC FEET PER SECOND
PK-DA5 / 22.63AC / 199.60	DESIGN BASIS DRAINAGE AREA ID AREA IN ACRES Q_{100} IN CUBIC FEET PER SECOND
	PROPOSED DRAINAGE AREA
	DESIGN BASIS DRAINAGE AREA
	FLOW ARROW
	STORM DRAIN LINES
590	PROPOSED CONTOURS
590	EXISTING CONTOURS

DESIGN BASIS USES A COMBINATION OF PACHECO KOCH (PK) ROCKWALL REGIONAL DETENTION POND DRAINAGE DIVIDES DATED 9/18/2017 AS WELL AS PACHECO KOCH (PK) ROCKWALL MANUFACTURING FACILITY DRAINAGE DIVIDES DATED 6/8/2017 TO DETERMINE AREA GOING TO EXISTING 2-6'X4' RCB's. OVERALL DRAINAGE AREAS HAVE BEEN RETAINED IN LOLLICUP DESIGN AND ACCOMODATED WITH ONSITE STORM DRAINAGE SYSTEMS.

RATIONAL METHOD SUB-AREA RUNOFF CALCULATIONS
Q=(C)(I)(A)

DRAINAGE AREA ID	DRAINAGE AREA (ac)	TOTAL Tc (min)	RUNOFF COEF. "C"	100 YEAR INTENSITY I (in/hr)	100 YEAR PEAK FLOW Q (cfs)
1	2	3	4	11	18
A-1	1.61	10.00	0.90	9.80	14.20
B-1	1.04	10.00	0.90	9.80	9.17
B-2	2.05	10.00	0.90	9.80	18.08
B-3	2.18	10.00	0.90	9.80	19.23
B-4	2.17	10.00	0.90	9.80	19.15
B-5	2.16	10.00	0.90	9.80	19.05
B-6	2.17	10.00	0.90	9.80	19.14
B-7	2.18	10.00	0.90	9.80	19.23
B-8	1.11	10.00	0.90	9.80	9.81
B-9a	0.79	10.00	0.90	9.80	6.97
B-9b	2.87	10.00	0.90	9.80	25.28
B-9c	1.00	10.00	0.90	9.80	8.82
Total	19.72				173.92
D-1	0.99	10.00	0.90	9.80	8.73
D-2	1.93	10.00	0.90	9.80	17.02
D-3	2.19	10.00	0.90	9.80	19.32
D-4	2.17	10.00	0.90	9.80	19.14
D-5	2.21	10.00	0.90	9.80	19.49
D-6a	0.68	10.00	0.90	9.80	6.00
D-6b	0.65	10.00	0.90	9.80	5.72
D-6c	0.28	10.00	0.90	9.80	2.43
Total	11.10				97.86
OS-1	11.75	10.00	0.90	9.80	103.64
OS-2	0.93	10.00	0.90	9.80	8.20
OS-3	1.13	10.00	0.90	9.80	9.97
OS-4	8.28	10.00	0.90	9.80	73.01
OS-5	14.47	10.00	0.90	9.80	127.63
PK DA 5	24.91	10.00	0.90	9.80	219.71
PK DA 31+DA 33	29.55	10.00	0.90	9.80	260.63

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
DRAINAGE AREA MAP

DRAWING NO.
C03-00

Forum # 601-03049 Consult.# 101-03049

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STORM DRAIN HYDRAULIC CALCULATIONS TABLE

FROM	TO	PIPE LENGTH	Drainage Area Incremental	Drainage Area Total	Runoff	Incr.	Total	Time of Concentration			5-yr	100-yr	Q5	Q100	100-yr Inlet	Q	Pipe	No. of	n	Sf	HGL		HEAD LOSS CALCULATIONS							Design	T/C	HGL Depth	DESCRIPTION	NOTES
								Inlet	Travel	Total	Intensity	Intensity	Runoff	Runoff	Bypass	pipe	Size	Barrels			D/S	U/S	V1 (in)	V2 (out)	$V_1^2/2G$	$V_2^2/2G$	KJ	$KjV_1^2/2G$	Hk	U/S HGL	ELEV.	Below T/C-			
		feet	No.	Area	Area			min.	min.	min.	in/hr.	in/hr.	cfs	cfs	cfs	cfs	in.			ft/ft	Elev.	Elev.	ft/sec	ft/sec	ft.	ft.		ft.	ft.	Elev.	ft.	T/I ft.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	35	36	37
LINE A																																		
07+39.79	06+10.33	129.46	A-1	1.61	1.61	0.90	1.45	1.45	10.00	0.75	10.00	5.85	9.80	8.48	14.20	0.00	14.20	30	1	0.013	0.0012	588.21	588.37	0.00	2.89	0.000	0.130	1.25	0.00	0.16	588.53	590.63	2.10	Inlet at Beg. of Line	
06+10.33	05+08.36	101.97		0.00	1.61			1.45	0.00	0.64	10.75	5.70	9.00	8.26	13.05	0.00	13.05	30	1	0.013	0.0010	588.01	588.11	2.89	2.66	0.130	0.110	0.42	0.05	0.10	588.21	591.60		MH on Line w/45º Bend	
05+08.36	03+67.66	140.70		0.00	1.61			1.45	0.00	0.90	11.39	5.58	8.82	8.08	12.79	0.00	12.79	30	1	0.013	0.0010	587.77	587.91	2.66	2.60	0.110	0.105	0.37	0.04	0.10	588.01	591.60		Bends where radius = diam, 45º Bend	
03+67.66	00+47.64	320.02		0.00	1.61			1.45	0.00	2.10	12.29	5.41	8.59	7.84	12.44	0.00	12.44	30	1	0.013	0.0009	587.38	587.67	2.60	2.53	0.105	0.100	1.00	0.11	0.10	587.77	591.60		MH on Line w/0º Lat	
00+47.64	00+00.00	47.64		0.00	1.61			1.45	0.00	0.33	14.39	5.06	8.08	7.33	11.71	0.00	11.71	30	1	0.013	0.0008	587.24	587.28	2.53	2.39	0.100	0.088	0.25	0.02	0.10	587.38	590.50		Bends where radius = diam, 30º Bend	HGL Controlled by Updated Headwater with Lower FLs of Box Culverts
LINE B																																		
17+20.59	16+88.77	31.82	B-1	1.04	1.04	0.90	0.94	0.94	10.00	0.18	10.00	5.85	9.80	5.48	9.17	0.00	9.17	24	1	0.013	0.0016	589.93	589.99	2.92	2.92	0.132	0.132	1.25	0.17	0.17	590.15	592.72	2.57	Inlet at Beg. of Line	
16+88.77	15+19.26	169.51		0.00	1.04			0.94	0.00	1.03	10.18	5.82	9.17	5.44	8.58	0.00	8.58	24	1	0.013	0.0014	589.59	589.83	2.92	2.73	0.132	0.116	0.37	0.05	0.10	589.93	591.16		Bends where radius = diam, 45º Bend	
15+19.26	14+39.18	80.08		0.00	1.04			0.94	0.00	0.64	11.22	5.61	8.87	5.25	8.30	0.00	8.30	27	1	0.013	0.0007	589.43	589.49	2.73	2.09	0.116	0.068	0.42	0.05	0.10	589.59	591.16		MH on Line w/45º Bend	
14+39.18	13+58.60	80.58		0.00	1.04			0.94	0.00	0.66	11.85	5.49	8.70	5.14	8.14	0.00	8.14	27	1	0.013	0.0007	589.28	589.33	2.09	2.05	0.068	0.065	0.37	0.03	0.10	589.43	591.16		Bends where radius = diam, 45º Bend	
13+58.60	11+95.98	162.62	B-2	2.05	3.09	0.90	1.85	2.78	10.00	1.10	12.51	5.37	8.53	14.93	23.72	0.00	23.72	42	1	0.013	0.0006	589.09	589.18	2.05	2.47	0.065	0.094	0.35	0.02	0.10	589.28	591.16		60º Wye connection	
11+95.98	10+24.23	171.75	B-3	2.18	5.27	0.90	1.96	4.74	10.00	1.16	13.61	5.18	8.26	24.59	39.18	0.00	39.18	54	1	0.013	0.0004	588.92	588.99	2.47	2.46	0.094	0.094	0.35	0.03	0.10	589.09	591.16		MH on Line w/60º Lat	
10+24.23	08+59.33	164.90	B-4	2.17	7.44	0.90	1.95	6.70	10.00	1.01	14.77	5.00	8.00	33.51	53.56	0.00	53.56	60	1	0.013	0.0004	588.75	588.82	2.46	2.73	0.094	0.116	0.35	0.03	0.10	588.92	591.16		60º Wye connection	
08+59.33	06+96.15	163.18	B-5	2.16	9.60	0.90	1.94	8.64	10.00	0.79	15.78	4.86	7.78	41.97	67.27	0.00	67.27	60	1	0.013	0.0007	588.50	588.61	2.73	3.43	0.116	0.182	0.35	0.04	0.14	588.75	591.16		60º Wye connection	
06+96.15	05+45.61	150.54	B-6	2.17	11.77	0.90	1.95	10.59	10.00	0.74	16.57	4.75	7.63	50.31	80.79	0.00	80.79	66	1	0.013	0.0006	588.29	588.38	3.43	3.40	0.182	0.180	0.35	0.06	0.12	588.50	591.16		60º Wye connection	
05+45.61	03+44.61	201.00	B-7	2.18	13.95	0.90	1.96	12.56	10.00	0.85	17.31	4.65	7.49	58.43	93.98	0.00	93.98	66	1	0.013	0.0008	587.96	588.11	3.40	3.96	0.180	0.243	0.35	0.06	0.18	588.29	591.50		60º Wye connection	
03+44.61	02+95.85	48.76	B-8	1.11	15.06	0.90	1.00	13.56	10.00	0.19	18.16	4.55	7.33	61.66	99.38	0.00	99.38	66	1	0.013	0.0009	587.73	587.77	3.96	4.18	0.243	0.272	0.35	0.09	0.19	587.96	591.50		60º Wye connection	
02+95.85	00+44.53	251.32		0.00	15.06			13.56	0.00	1.01	18.35	4.53	7.30	61.35	98.91	0.00	98.91	66	1	0.013	0.0009	587.40	587.61	4.18	4.16	0.272	0.269	0.42	0.11	0.11	587.73	591.50		MH on Line w/45º Bend	
00+44.53	00+00.00	44.53		0.00	15.06			13.56	0.00	0.18	19.36	4.41	7.12	59.77	96.58	0.00	96.58	66	1	0.013	0.0008	587.26	587.30	4.16	4.07	0.269	0.257	0.25	0.07	0.10	587.40	588.70		Bends where radius = diam, 30º Bend	HGL at Pipe Soffit
LINE C																																		
04+36.13	00+79.07	357.06	OS-5	14.47	14.47	0.90	13.02	13.02	10.00	0.92	10.00	5.85	9.80	76.24	127.63	0.00	127.63	60	1	0.013	0.0024	588.13	588.99	0.00	6.50	0.000	0.656	0.23	0.00	0.15	589.14	591.75	2.61	Sudden Enlargement, D2/D1 = 1.4	JB in line with Pipe Size Change, Connect to PK line HGL below top of existing pipe.
00+79.07	00+19.16	59.91	OS-4	8.28	22.75	0.90	7.45	20.47	10.00	0.13	10.92	5.67	8.95	116.01	183.34	0.00	183.34	66	1	0.013	0.0030	587.26	587.44	6.50	7.72	0.656	0.925	0.35	0.23	0.70	588.13	590.50		MH on Line w/60º Lat	HGL at Pipe Soffit
LINE D-1																																		
11+71.20	11+38.88	32.32	D-1	0.99	0.99	0.90	0.89	0.89	10.00	0.19	10.00	5.85	9.80	5.22	8.73	0.00	8.73	24	1	0.013	0.0015	589.23	589.28	2.78	2.78	0.120	0.120	1.25	0.15	0.15	589.43	592.16	2.73	Inlet at Beg. of Line	
11+38.88	09+96.80	142.08		0.00	0.99			0.89	0.00	0.91	10.19	5.81	9.17	5.18	8.17	0.00	8.17	24	1	0.013	0.0013	588.94	589.13	2.78	2.60	0.120	0.105	0.37	0.04	0.10	589.23	591.60		Bends where radius = diam, 45º Bend	
09+96.80	08+32.96	163.84		0.00	0.99			0.89	0.00	1.08	11.10	5.63	8.90	5.02	7.93	0.00	7.93	24	1	0.013	0.0012	588.64	588.84	2.60	2.52	0.105	0.099	0.42	0.04	0.10	588.94	591.60		MH on Line w/45º Bend	
08+32.96	07+85.88	47.08	D-2	1.93	2.92	0.90	1.74	2.63	10.00	0.25	12.19	5.43	8.61	14.26	22.63	0.00	22.63	36	1	0.013	0.0012	588.46	588.52	2.52	3.20	0.099	0.159	0.35	0.03	0.12	588.64	591.60		60º Wye connection	
07+85.88	06+77.31	108.57		0.00	2.92			2.63	0.00	0.57	12.43	5.38	8.55	14.15	22.46	0.00	22.46	36	1	0.013	0.0011	588.24	588.36	3.20	3.18	0.159	0.157	0.37	0.06	0.10	588.46	591.60		Bends where radius = diam, 45º Bend	
06+77.31	04+97.32	179.99	D-3	2.19	5.11	0.90	1.97	4.60	10.00	0.98	13.00	5.28	8.41	24.31	38.66	0.00	38.66	48	1	0.013	0.0007	588.01	588.14	3.18	3.08	0.157	0.147	0.35	0.05	0.10	588.24	591.60		MH on Line w/60º Lat	
04+97.32	03+16.80	180.52	D-4	2.17	7.28	0.90	1.95	6.55	10.00	0.71	13.98	5.13	8.18	33.58	53.56	0.00	53.56	48	1	0.013	0.0014	587.55	587.80	3.08	4.26	0.147	0.282	0.50	0.07	0.21	588.01	591.60		MH on Trunk Line w/45º Branch Lat	
03+16.80	00+00.00	316.80	D-5	2.21	9.49	0.90	1.99	8.54	10.00	0.97	14.68	5.02	8.02	42.85	68.47	0.00	68.47	48	1	0.013	0.0023	586.47	587.19	4.26	5.45	0.282	0.461	0.35	0.10	0.36	587.55	590.50		60º Wye connection	HGL at Pipe Soffit
LINE D-2																																		
01+34.64	00+81.00	53.64	D-6a	0.68	0.68	0.90	0.61	0.61	10.00	0.26	10.00	5.85	9.80	3.58	6.00	0.00	6.00	18	1	0.013	0.0033	583.01	583.18	0.00	3.39	0.000	0.179	1.25	0.00	0.22	583.41	585.82	2.41	Inlet at Beg. of Line	
00+81.00	00+71.13	9.87		0.00	0.68			0.61	0.00	0.05	10.26	5.80	9.14	3.55	5.60	0.00	5.60	18	1	0.013	0.0028	582.88	582.91	3.39	3.17	0.179	0.156	0.42	0.08	0.10	583.01	587.67		MH on Line w/45º Bend	
00+71.13	00+23.95	47.18	D-6b	0.65	1.33	0.90	0.58	1.20	10.00	0.17	10.32	5.79	9.13	6.92	10.92	0.00	10.92	21	1	0.013	0.0047	582.39	582.61	3.17	4.54	0.156	0.320	0.35	0.05	0.27	582.88	585.45		60º Wye connection	
00+23.95	00+00.00	23.95	D-6c	0.28	1.61	0.90	0.25	1.44	10.00	0.10	10.49	5.75	9.08	8.31	13.11	0.00	13.11	24	1	0.013	0.0034	582.15	582.23	4.54	4.17	0.320	0.271	0.35	0.11	0.16	582.39	585.10		60º Wye connection	HGL at Pipe Soffit
LINE F																																		
02+78.00	00+67.89	210.11	OS-4	8.28	8.28	0.90	7.45	7.45	10.00	0.60	10.00	5.85	9.80	43.61	73.01	0.00	73.01	48	1	0.013	0.0026	588.39	588.94	0.00	5.81	0.000	0.524	1.25	0.00	0.56	589.50	591.65	2.15	Inlet at Beg. of Line	
00+67.89	00+00.00	67.89		0.00	8.28			7.45	0.00	0.21	10.60	5.73	9.04	42.68	67.38	0.00	67.38	48	1	0.013	0.0022	588.13	588.28	5.81	5.36	0.524	0.446	0.25	0.13	0.11	588.39	590.50		Bends where radius = diam, 30º Bend	
LATERALS																																		
LAT B-2																																		
00+46.11	00+00.00	46.11	B-2	2.05	2.05	0.90	1.85	1.85	10.00	0.30	10.00	5.85	9.80	10.80	18.08	0.00	18.08	36	1	0.013	0.0007	589.28	589.31	0.00	2.56	0.000	0.102	1.25	0.00	0.13	589.44	591.50	2.06	Inlet at Beg. of Line	
LAT B-3																																		
01+09.00	00+00.00	109.00	B-3	2.18	2.18	0.90	1.96	1.96	10.00	0.67	10.00	5.85	9.80	11.49	19.23	0.00	19.23	36	1	0.013	0.0008	589.09	589.18	0.00	2.72	0.000	0.115	1.25	0.00	0.14	589.32	590.75	1.43	Inlet at Beg. of Line	
LAT B-4																																		
01+09.00	00+00.00	109.00	B-4	2.17	2.17	0.90	1.95	1.95	10.00	0.67	10.00	5.85	9.80	11.44	19.15	0.00	19.15	36	1	0.013	0.0008	588.92	589.01	0.00	2.71	0.000	0.114	1.25	0.00	0.14	589.15	590.75	1.60	Inlet at Beg. of Line	
LAT B-5																																		
01+09.00	00+00.00	109.00	B-5	2.16	2.16	0.90	1.94	1.94	10.00	0.47	10.00	5.85	9.80	11.38	19.05	0.00	19.05	30	1	0.013	0.0022	588.75	588.98	0.00	3.88	0.000	0.234	1.25	0.00	0.29	589.28	590.75	1.47	Inlet at Beg. of Line	
LAT B-6																																		
01+09.00	00+00.00	109.00	B-6	2.17	2.17	0.90	1.95	1.95	10.00	0.47	10.00	5.85	9.80	11.43	19.14	0.00	19.14	30	1	0.013	0.0022	588.50	588.74	0.00	3.90	0.000	0.236	1.25	0.00	0.30	589.03	590.75	1.72	Inlet at Beg. of Line	
LAT B-7																																		
00+46.10	00+00.00	46.10	B-7	2.18	2.18	0.90	1.96	1.96	10.00	0.16	10.00	5.85	9.80	11.49	19.23	0.00	19.23	27	1	0.013	0.0039	588.29	588.47	0.00	4.84	0.000	0.363	1.25	0.00	0.45	588.93	591.69	2.76	Inlet at Beg. of Line	
LAT B-8																																		
00+45.09	00+00.00	45.09	B-8	1.11	1.11	0.90	1.00	1.00	10.00	0.30	10.00	5.85	9.80	5.86	9.81	0.00	9.81	27	1	0.013	0.0010	587.96	588.00	0.00	2.47	0.000	0.094	1.25	0.00	0.12	588.12	590.20	2.08	Inlet at Beg. of Line	
LAT D-2																																		
00+46.11	00+00.00	46.11	D-2	1.93	1.93	0.90	1.74	1.74	10.00	0.32	10.00	5.85	9.80	10.17	17.02	0.00	17.02	36	1	0.013	0.0007	588.64	588.67	0.00	2.41	0.000	0.090	1.25	0.00	0.11	588.78	591.10	2.32	Inlet at Beg. of Line	
LAT D-3																																		
00+13.70	00+00.00	13.70	D-3	2.19	2.19	0.90	1.97	1.97	10.00	0.05	10.00	5.85	9.80	11.54	19.32	0.00	19.32	27	1	0.013	0.0039	588.24	588.29	0.00	4.86	0.000	0.366	1.25	0.00	0.46	588.75	591.10	2.35	Inlet at Beg. of Line	
LAT D-4																																		
00+13.70	00+00.00	13.70	D-4	2.17	2.17	0.90	1.95	1.95	10.00	0.04	10.00	5.85	9.80	11.43	19.14	0.00	19.14	24	1	0.013	0.0072	588.01	588.11	0.00	6.09	0.000	0.576	1.25	0.00	0.72	588.83	591.10	2.27	Inlet at Beg. of Line	
LAT D-5																																		
00+13.70	00+00.00	13.70	D-5	2.21	2.21	0.90	1.99	1.99	10.00	0.03	10.00	5.85	9.80	11.64	19.49	0.00	19.49	21	1	0.013	0.0151	587.55	587.76	0.00	8.10	0.000	1.020	1.25	0.00	1.27	589.03	591.10	2.07	Inlet at Beg. of Line	
LAT D-6b																																		
00+18.86	00+00.00	18.86	D-6b	0.65	0.65	0.90	0.58	0.58	10.00	0.10	10.00	5.85	9.80	3.42	5.72	0.00	5.72	18	1	0.013	0.0030	582.88	582.93	0.00	3.24	0.000	0.163	1.25	0.00	0.20	583.14	585.19	2.05	Inlet at Beg. of Line	
LAT D-6c																																		
00+14.79	00+00.00	14.79	D-6c	0.28	0.28	0.90	0.25	0.25	10.00	0.18	10.00	5.85	9.80	1.45	2.43	0.00	2.43	18	1	0.013	0.0005	582.39	582.40	0.00	1.38	0.000	0.029	1.25	0.00	0.10	582.50	585.15	2.65	Inlet at Beg. of Line	

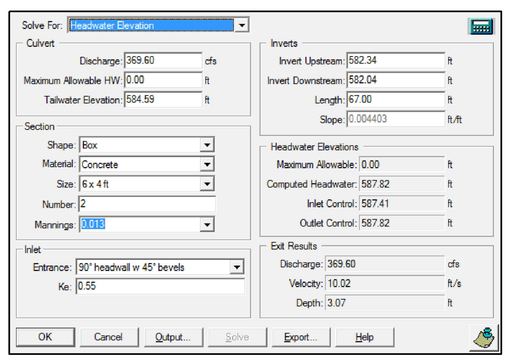
HGL CALCULATIONS

INLET			DRAINAGE AREA NO.				Cross Slope of Pavement "S_x" (ft/ft)	Long Slope "S_o" (ft/ft)	Cross Slope of Gutter "S'w" (ft/ft)	Depth of Flow "Y_o" (ft)	Spread of Flow "T" (ft)	Equivalent Cross Slope "S_e" (ft/ft)	Street Section (type)	Manning's coefficient pavement "n"	100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	Right-of-Way Capacity (cfs)	Design Storm	Length Required "L_T" (ft)	Actual Provided Length L (ft)	L/L_T	Efficiency "E"	Inlet Capacity (cfs)	Bypass Target	5-year Bypass Flow "q" (cfs)	100-year Bypass Flow "q" (cfs)	COMMENTS
Design Point	Inlet No.	STATION	Area No.	Area (acres)	Runoff "C"	Conc. Time (min)																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
D-6b	D-6b	00+71.13	D-6b	0.65	0.90	10.00	0.020	0.0150	0.167	0.25	12.54	0.082	Straight	0.015	9.80	5.72	0.00	5.72	77.25	100-yr	19.76	20	1.00	1.00	5.72		0.00	0.00	
D-6c	D-6c	00+23.95	D-6c	0.28	0.90	10.00	0.020	0.0300	0.167	0.16	7.99	0.109	Straight	0.015	9.80	2.43	0.00	2.43	109.24	100-yr	14.27	15	1.00	1.00	2.43		0.00	0.00	

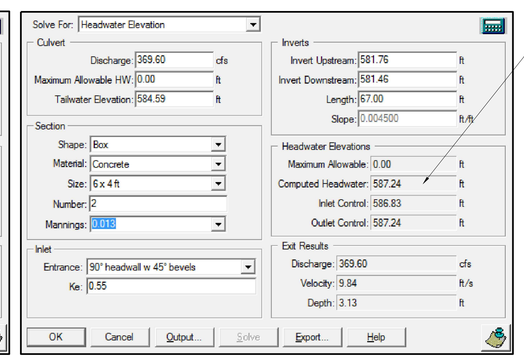
ON-GRADE INLET CALCULATIONS

Inlet No.	Gutter Slope S_o (ft/ft)	Crown Slope of Pavement θ_o (ft/ft)	100-year Gutter Flow Q_o (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Flow Q_o (cfs)	100-year Depth of Gutter Flow Y_o (ft)	Depth of Depression a (ft)	Depth of Flow at Opening Y (ft)	Capacity of Inlet per Foot of Length (Q/L) (cfs/ft)	Length of Inlet Opening L (ft)	Capacity of Inlet Q (cfs)	Bypass into Overflow (cfs)	Percent Q100 Captured By Inlet	NOTES
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-1	0.010	0.01	14.20	0.00	14.20	0.50	0.33	0.83	2.17	15	32.54	0.00	100%	No CO
B-1	0.010	0.01	9.17	0.00	9.17	0.50	0.33	0.83	2.38	10	23.80	0.00	100%	No CO
B-2	0.010	0.01	18.08	0.00	18.08	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
B-3	0.010	0.01	19.23	0.00	19.23	0.50	0.33	0.83	1.20	4'x4'	36.51	0.00	100%	No CO
B-4	0.010	0.01	19.15	0.00	19.15	0.50	0.33	0.83	1.20	4'x4'	36.51	0.00	100%	No CO
B-5	0.010	0.01	19.05	0.00	19.05	0.50	0.33	0.83	1.19	4'x4'	36.51	0.00	100%	No CO
B-6	0.010	0.01	19.14	0.00	19.14	0.50	0.33	0.83	1.20	4'x4'	36.51	0.00	100%	No CO
B-7	0.010	0.01	19.23	0.00	19.23	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
B-8	0.010	0.01	9.81	0.00	9.81	0.50	0.33	0.83	2.17	15	32.54	0.00	100%	No CO
D-1	0.010	0.01	8.73	0.00	8.73	0.50	0.33	0.83	2.38	10	23.80	0.00	100%	No CO
D-2	0.010	0.01	17.02	0.00	17.02	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
D-3	0.010	0.01	19.32	0.00	19.32	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
D-4	0.010	0.01	19.14	0.00	19.14	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
D-5	0.010	0.01	19.49	0.00	19.49	0.50	0.33	0.83	2.06	20	41.29	0.00	100%	No CO
D-6a	0.010	0.01	6.00	0.00	6.00	0.50	0.33	0.83	0.50	3'x3'	27.39	0.00	100%	No CO
OS-4	0.050	0.01	73.01	0.00	73.01	1.00	0.33	1.33	2.61	7'x7'	129.33	0.00	100%	No CO

SUMP INLET CALCULATIONS



EXISTING 2-6'X4' HEADWATER CALCULATIONS



UPDATED 2-6'X4' HEADWATER CALCULATIONS

UPDATED HEADWATER FROM FLs LOWERING USED FOR HGL STARTING POINT

NOTES

1. 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.

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

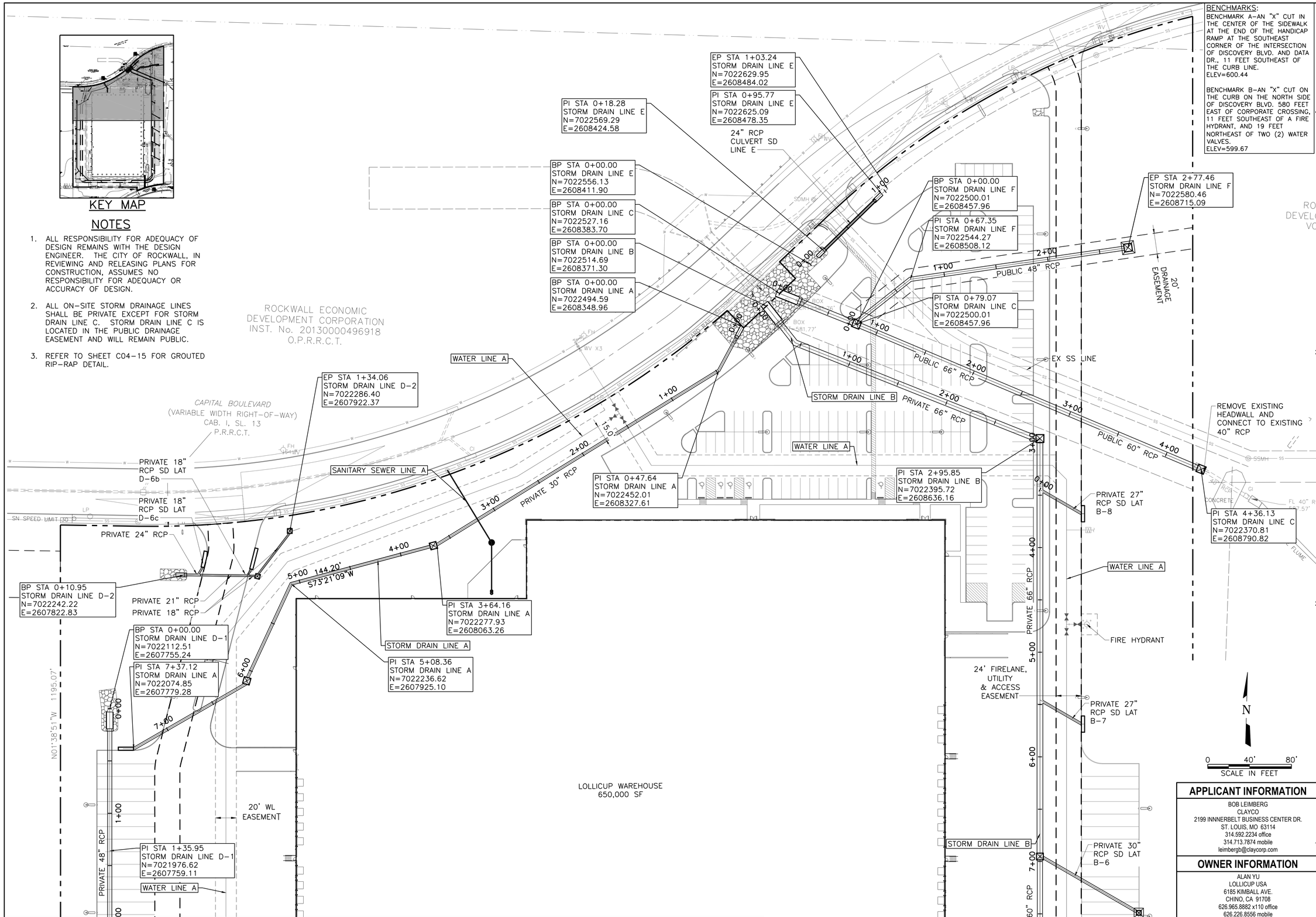
THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY BARETT M. BRISTOW P.E.
TEXAS NO: 101000 ON 4/10/2018
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

This Record Drawing is

KEY MAP

NOTES

1. 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.
2. ALL ON-SITE STORM DRAINAGE LINES SHALL BE PRIVATE EXCEPT FOR STORM DRAIN LINE C. STORM DRAIN LINE C IS LOCATED IN THE PUBLIC DRAINAGE EASEMENT AND WILL REMAIN PUBLIC.
3. REFER TO SHEET C04-15 FOR GROUTED RIP-RAP DETAIL.



MATCHLINE SHEET C04-01

BENCHMARKS:

BENCHMARK A-AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B-AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY BRETT M. BRISTOW P.E. TEXAS NO: 101000 ON 4/10/2018
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by information furnished by the contractor reflecting changes in the Project made during construction. The original sealed drawings are on file at the offices of
FREESE AND NICHOLS, INC.
RECORD DRAWINGS PREPARED ON:
3/6/2019

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LANDSCAPE ARCHITECT
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CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
OVERALL STORM DRAINAGE PLAN

DRAWING NO.
C04-00

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:06 PM

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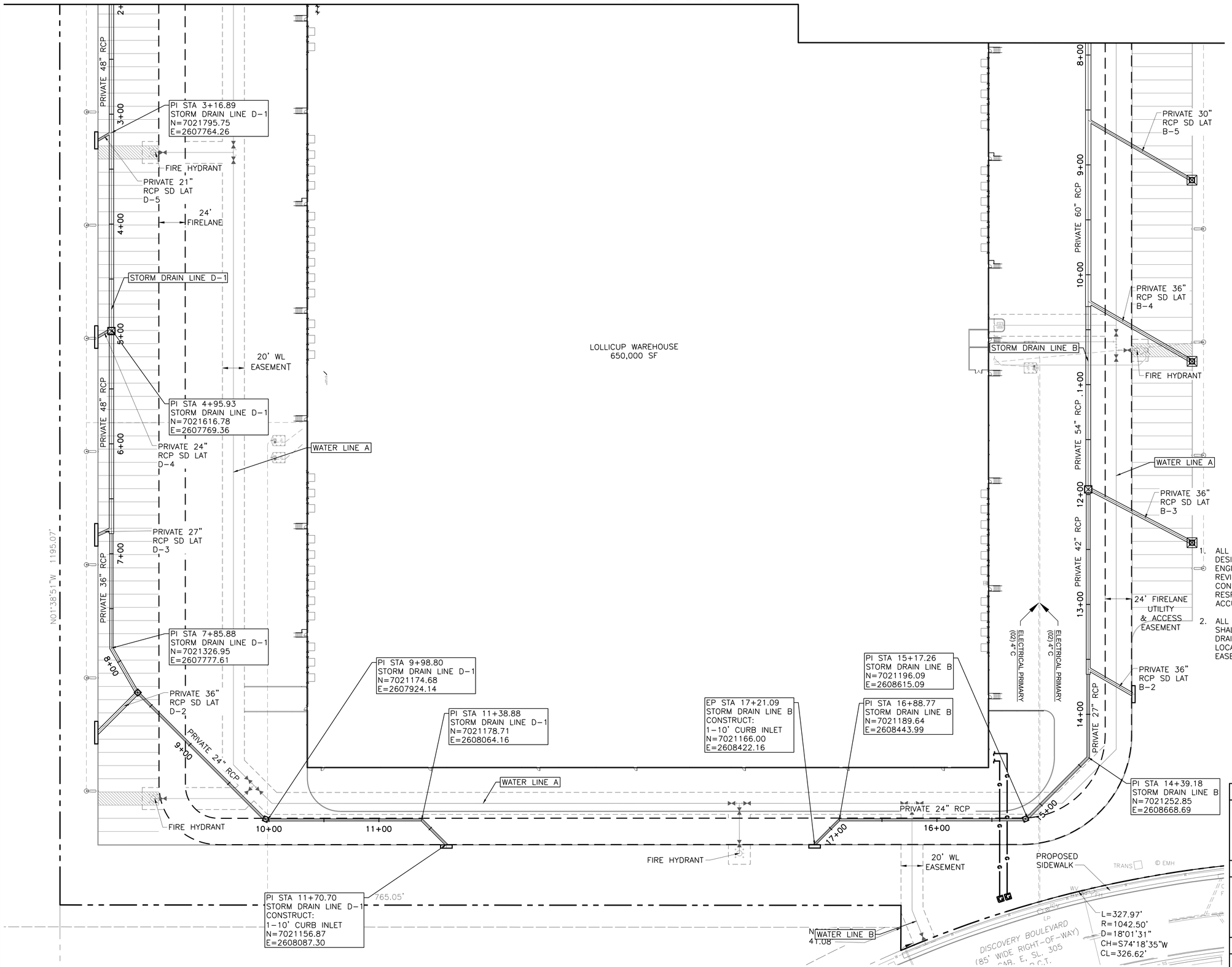
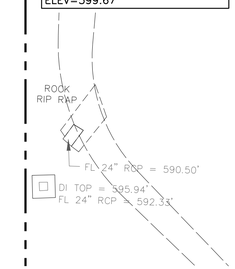
MATCHLINE SHEET C04-00

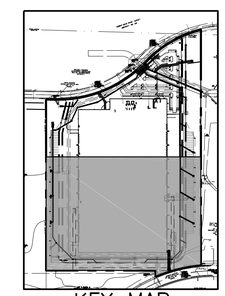


BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67





KEY MAP

NOTES

1. 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.
2. ALL ON-SITE STORM DRAINAGE LINES SHALL BE PRIVATE EXCEPT FOR STORM DRAIN LINE C. STORM DRAIN LINE C IS LOCATED IN THE PUBLIC DRAINAGE EASEMENT AND WILL REMAIN PUBLIC.

N

0 40' 80'
SCALE IN FEET

APPLICANT INFORMATION

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY BRETT M. BRISTOW P.E.
TEXAS NO: 101000 ON 4/10/2018
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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
OVERALL STORM DRAINAGE PLAN

DRAWING NO.
C04-01

Forum # 601-03049 Consult.# 101-03049

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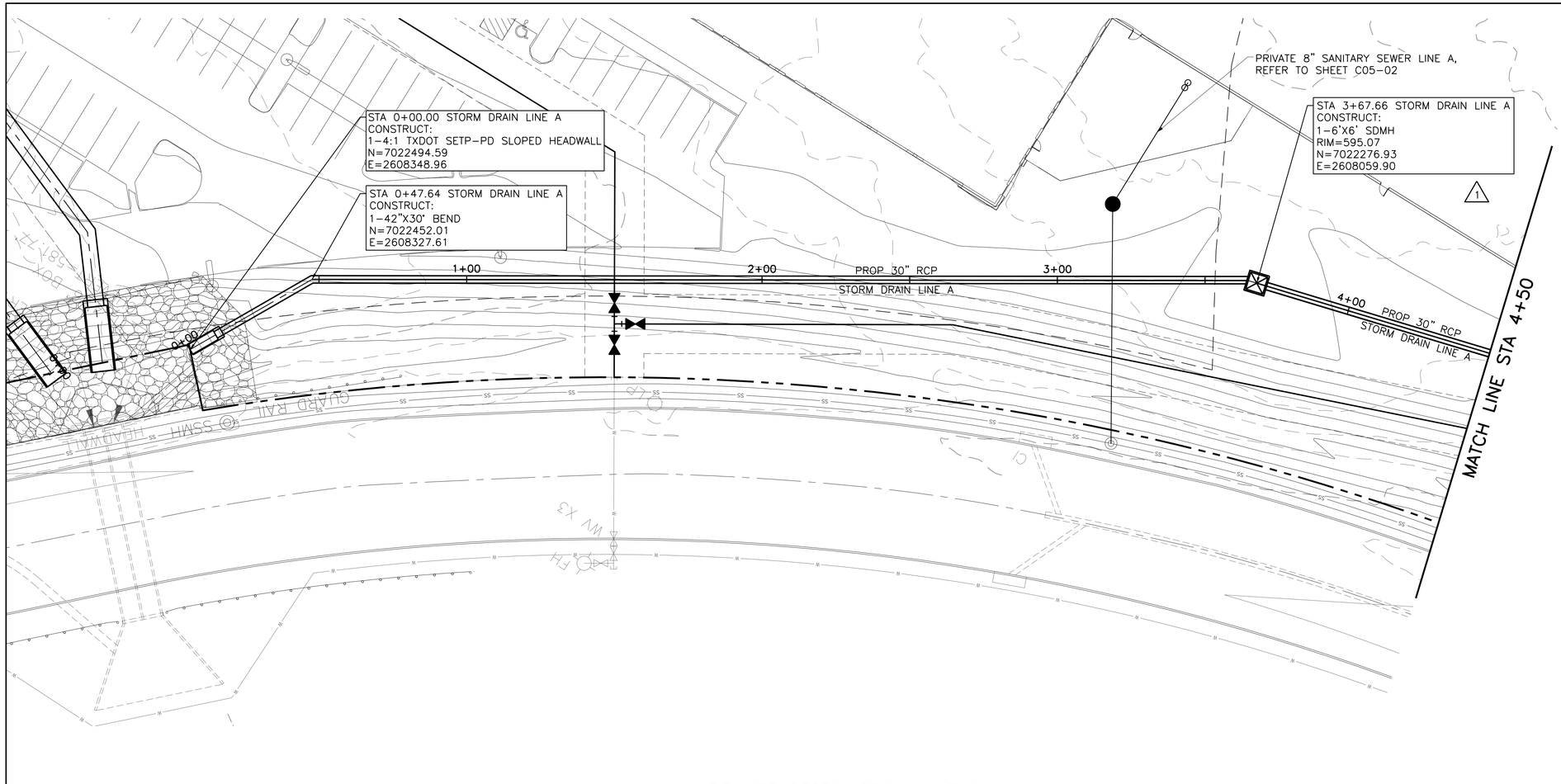

BENCHMARKS:

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ELEV=600.44

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ELEV=599.67

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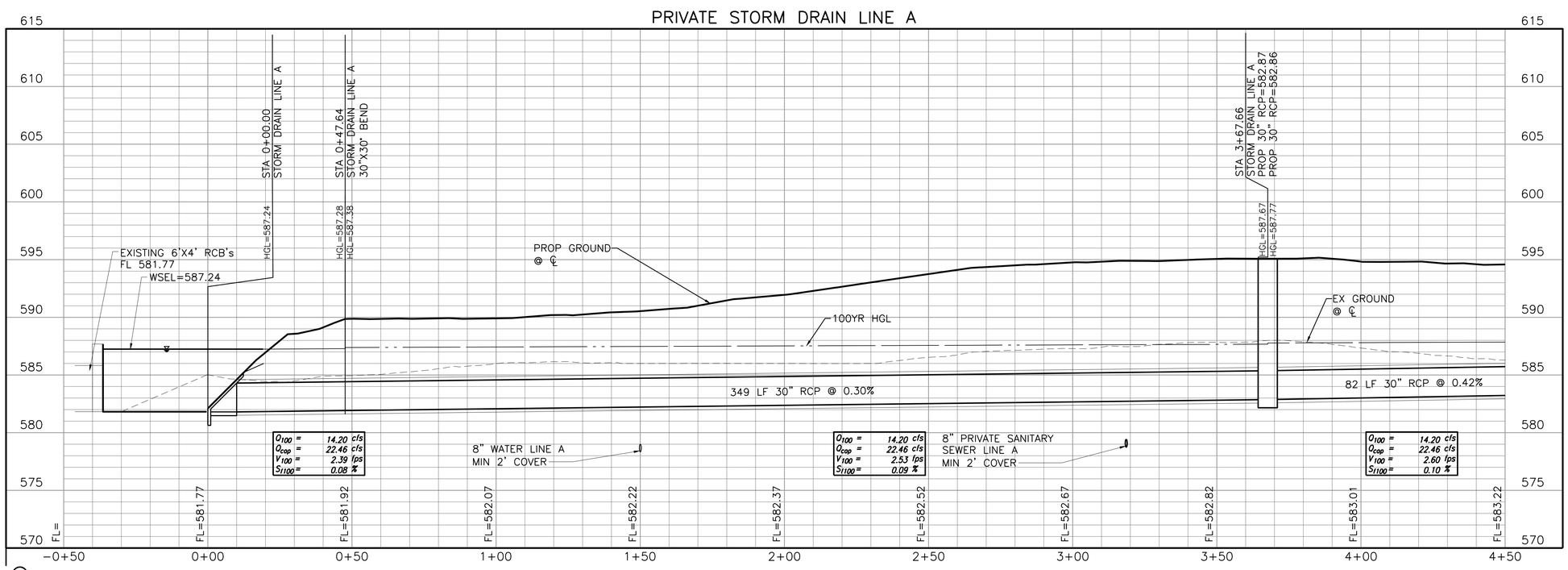
3. REFER TO SHEET C06-02 FOR TXDOT SETP-PD DETAIL

N

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL



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ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE A PLAN AND PROFILE

DRAWING NO.
C04-02

Forum # 601-03049 Consult.# 101-03049

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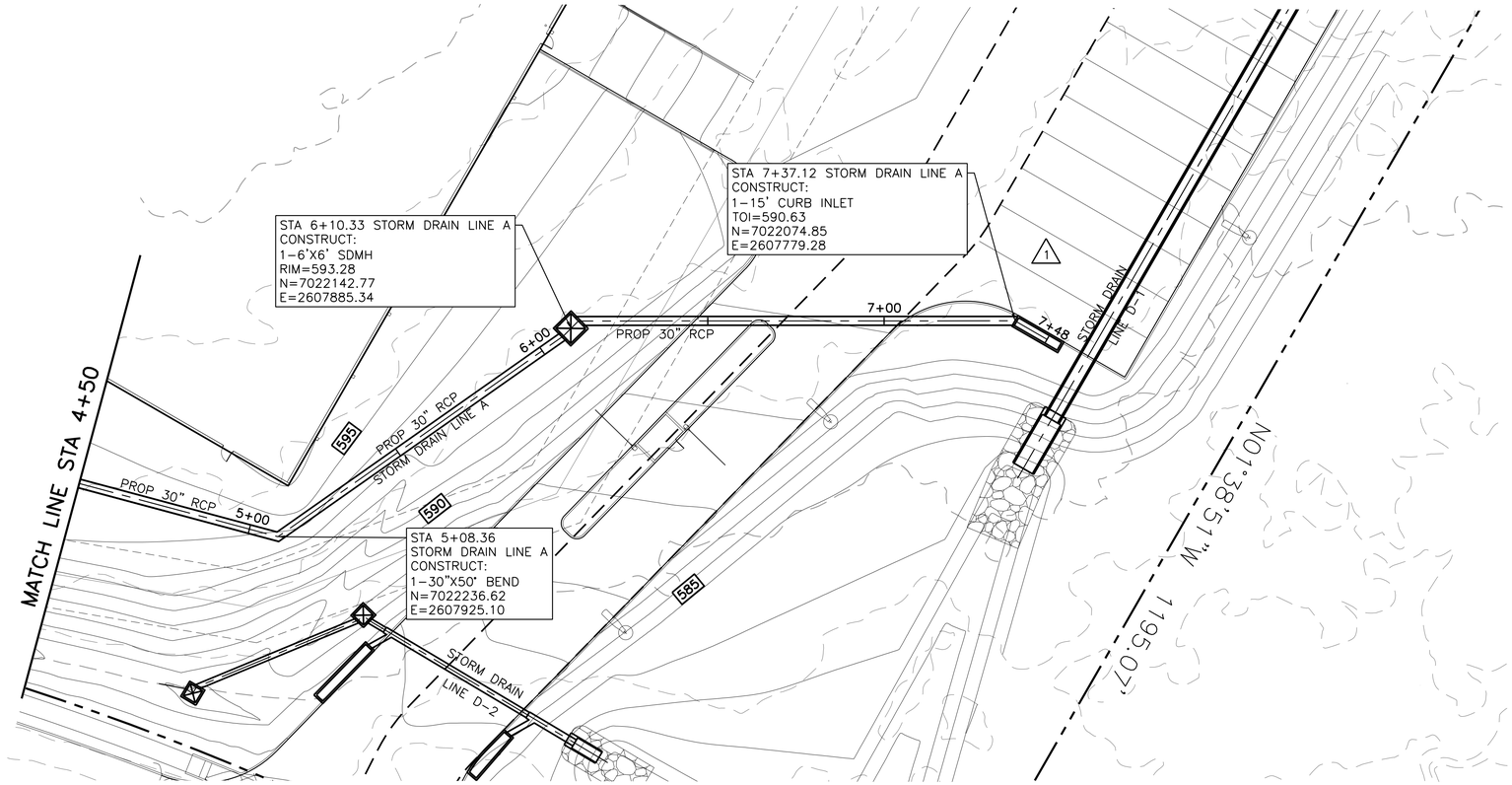

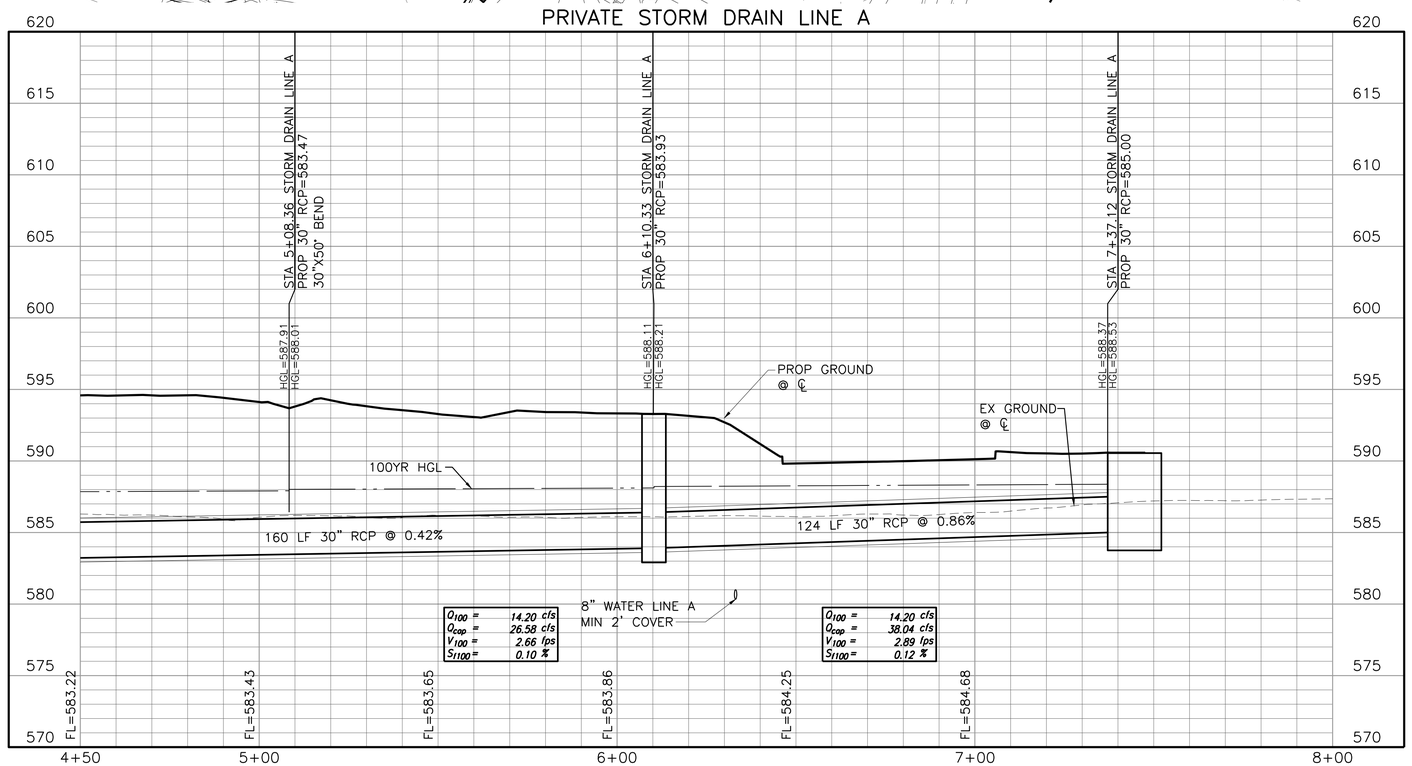

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ELEV=600.44

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ELEV=599.67

4

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MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

2

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 4 8
SCALE IN FEET
VERTICAL

NOTES

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
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ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE A PLAN AND PROFILE

DRAWING NO.
C04-03

Forum # 601-03049 Consult.# 101-03049

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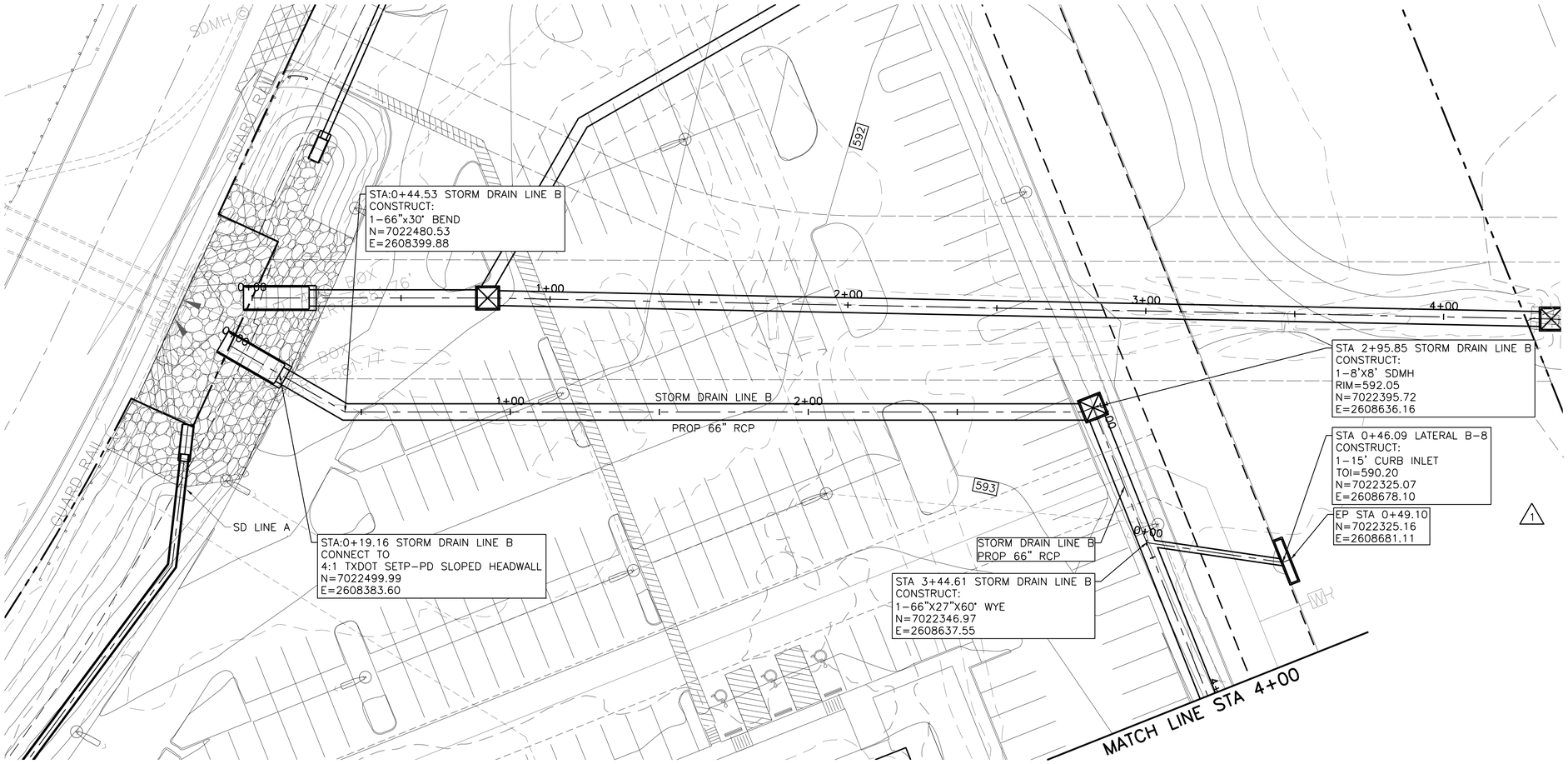
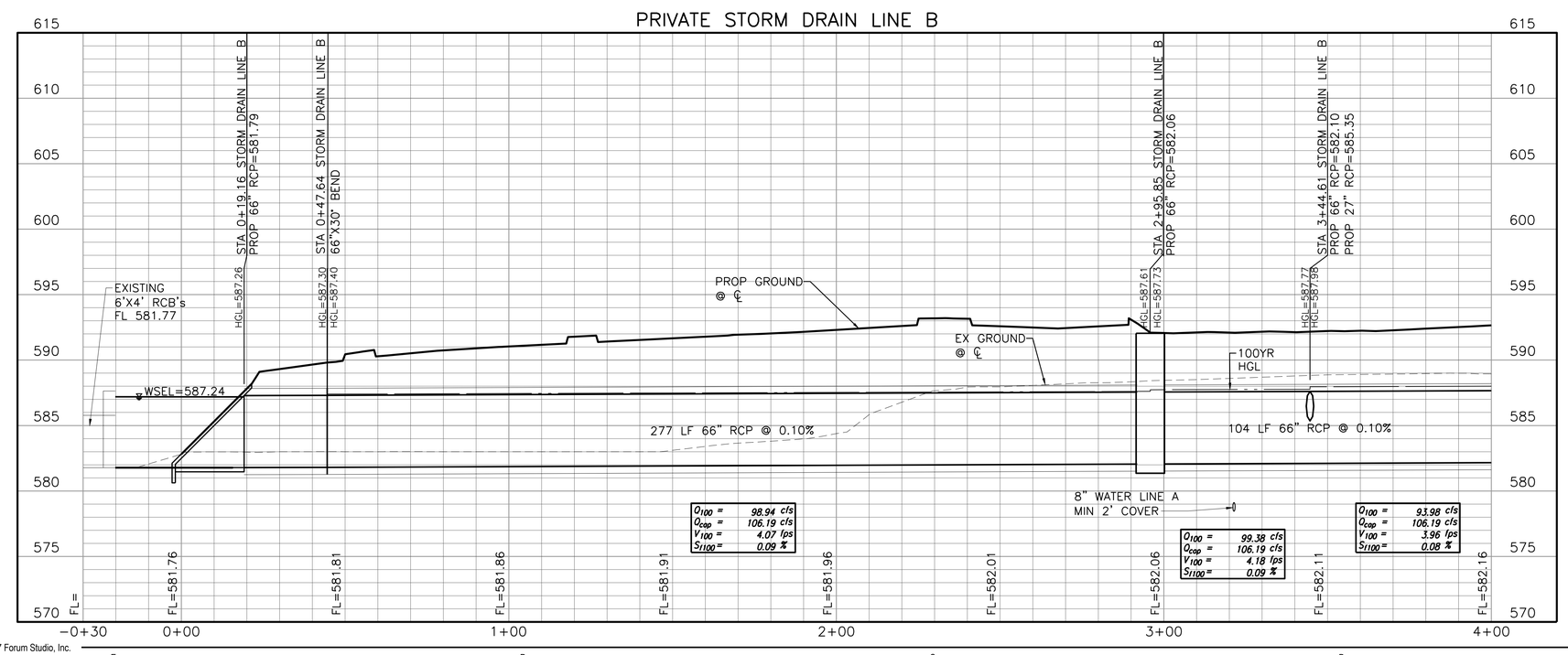
E D C B A





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ELEV=599.67

4

N

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

2

NOTES

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2. REFER TO SHEET C04-15 FOR GROUTED RIP-RAP DETAIL.
3. REFER TO SHEET C06-02 FOR TXDOT SETP-PD DETAIL

3

1

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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

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ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE B PLAN AND PROFILE

DRAWING NO.
C04-04

Forum # 601-03049 Consult.# 101-03049

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

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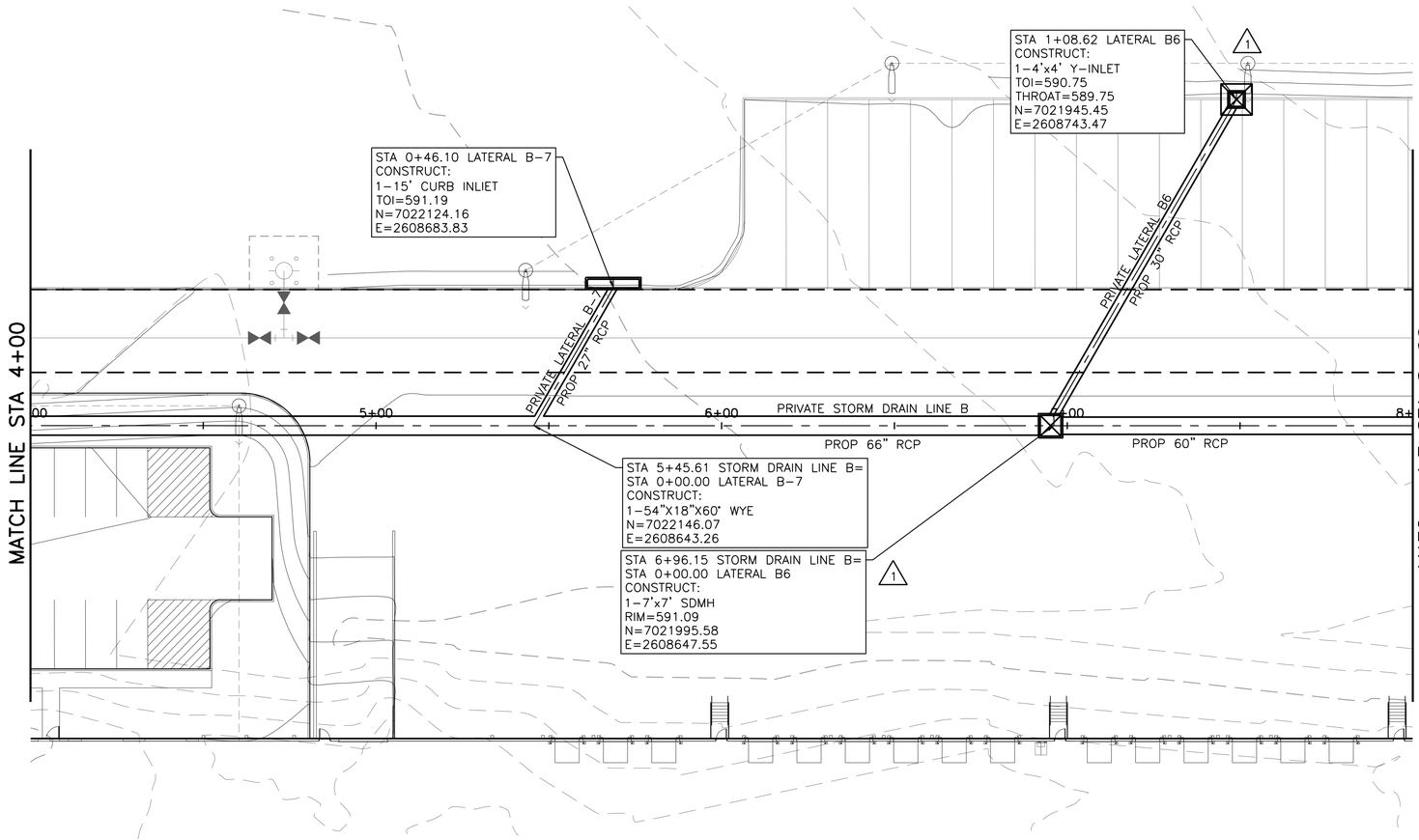

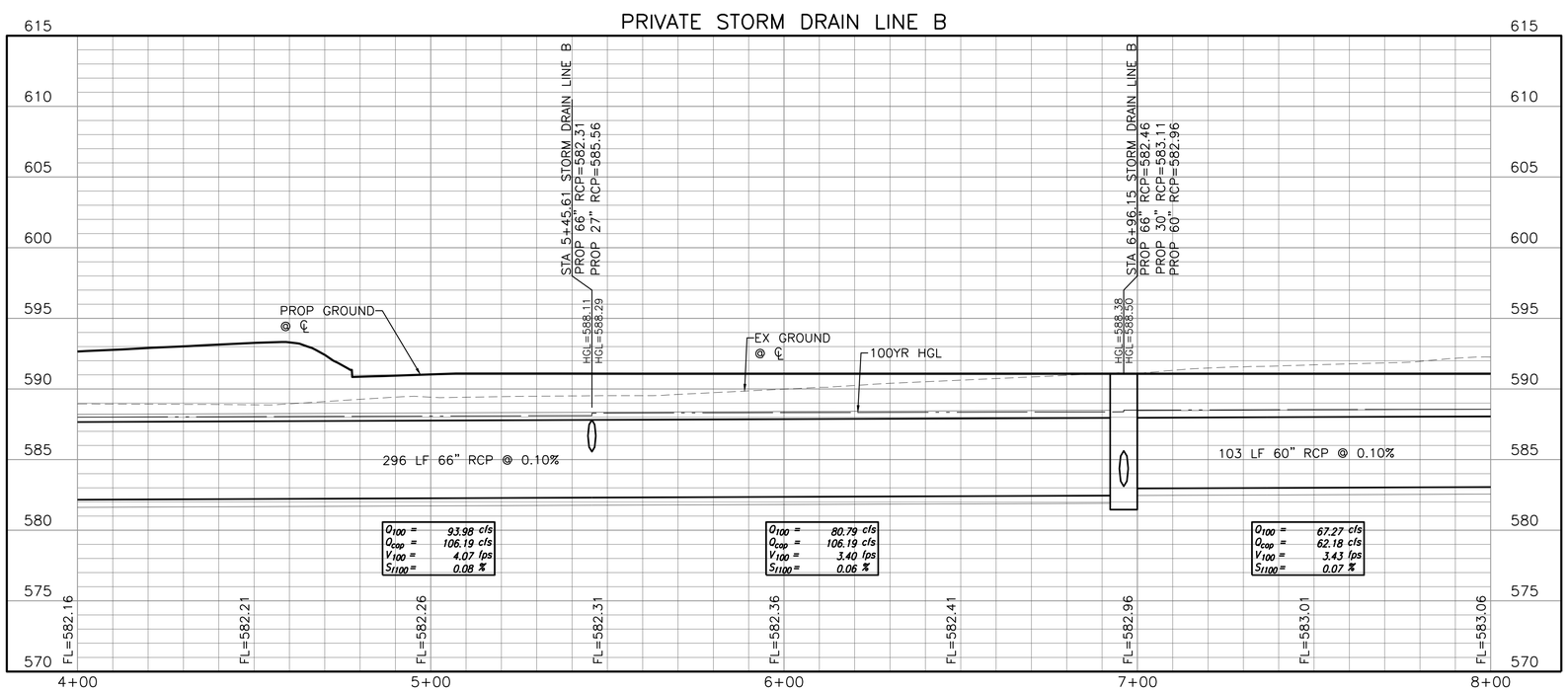

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ELEV=599.67

4

SCALE IN FEET HORIZONTAL: 0 20' 40'

SCALE IN FEET VERTICAL: 0 5' 10'

2

NOTES

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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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DRAWING TITLE
STORM DRAIN LINE B PLAN AND PROFILE

DRAWING NO.
C04-05

Forum # 601-03049 Consult.# 101-03049

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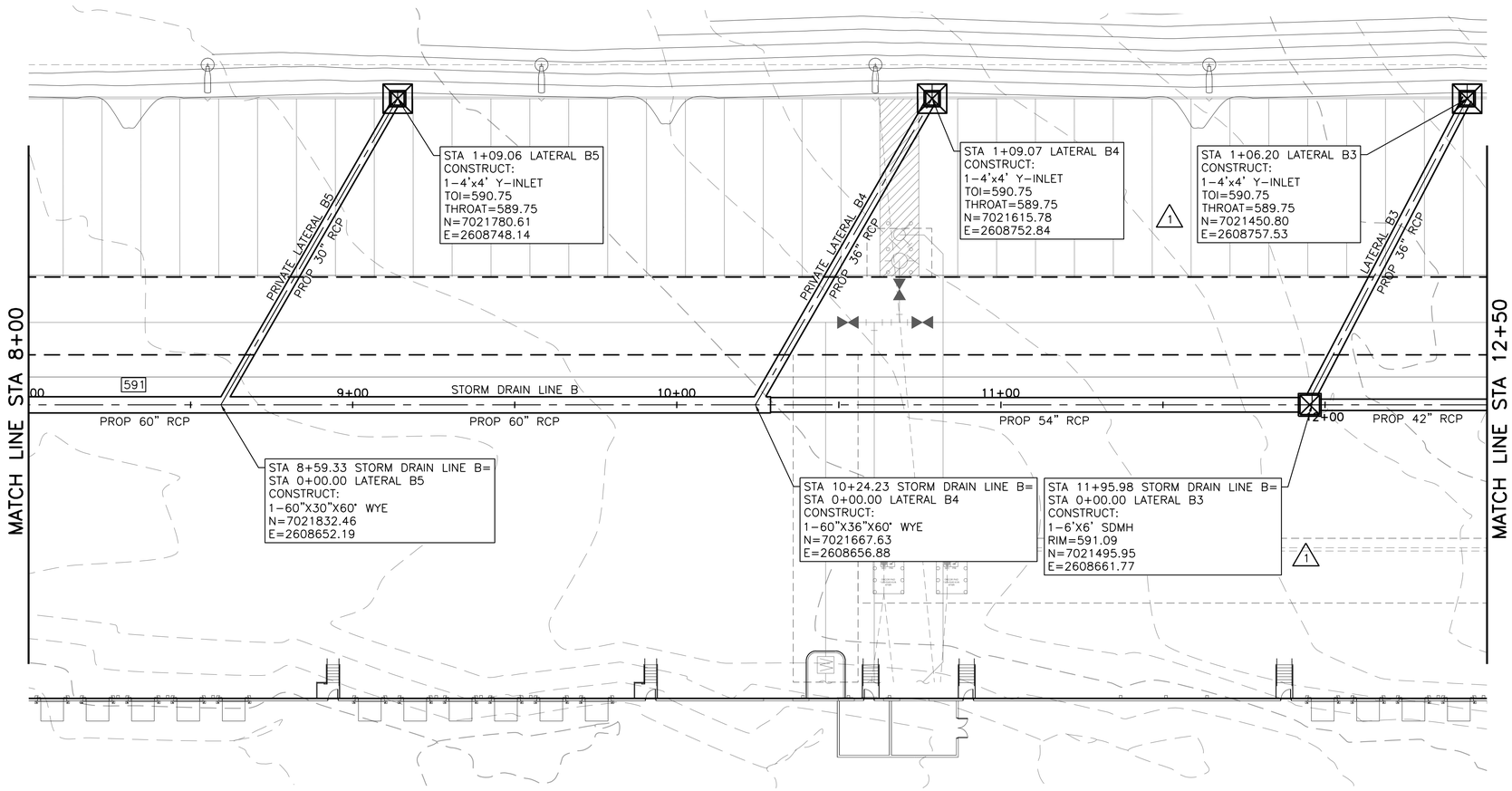
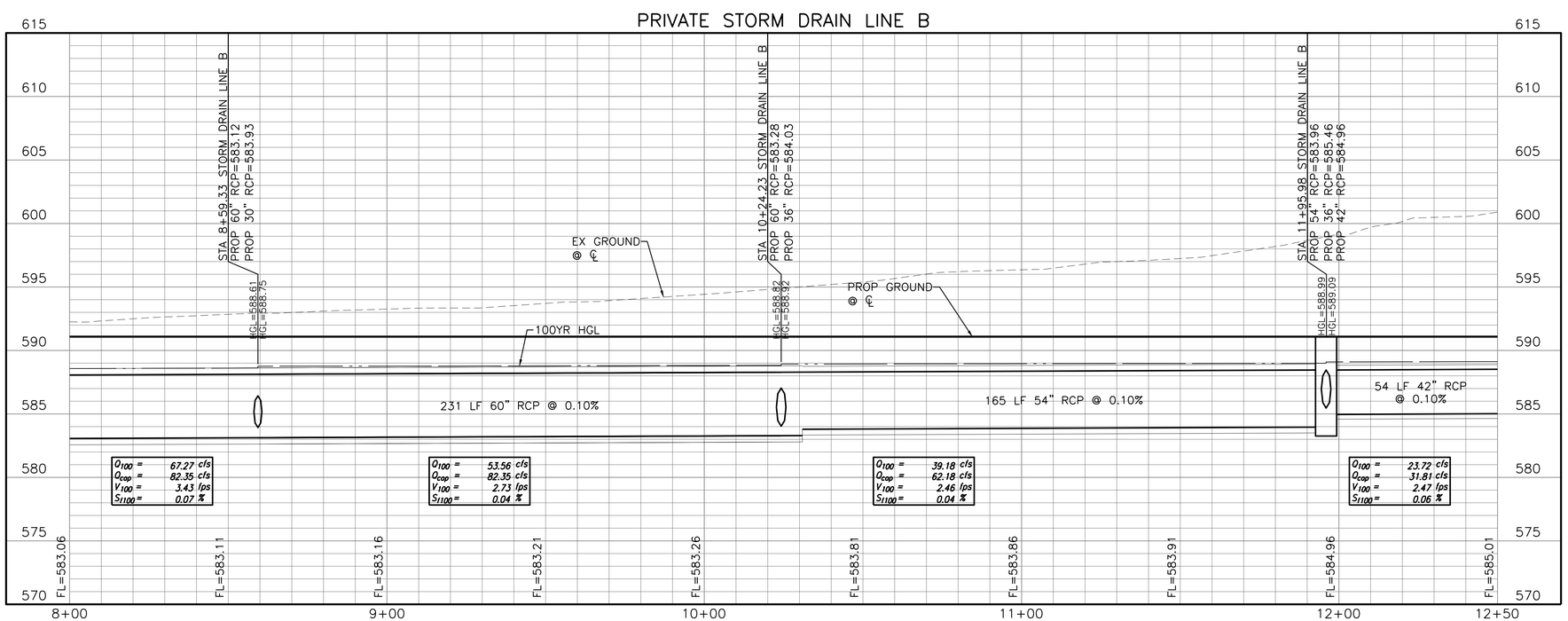
E D C B A





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LANDSCAPE ARCHITECT
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FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

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SCALE IN FEET
HORIZONTAL
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0 5' 10'
SCALE IN FEET
VERTICAL

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

Lollicup
ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE B PLAN AND PROFILE

DRAWING NO.
C04-06

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:05 PM

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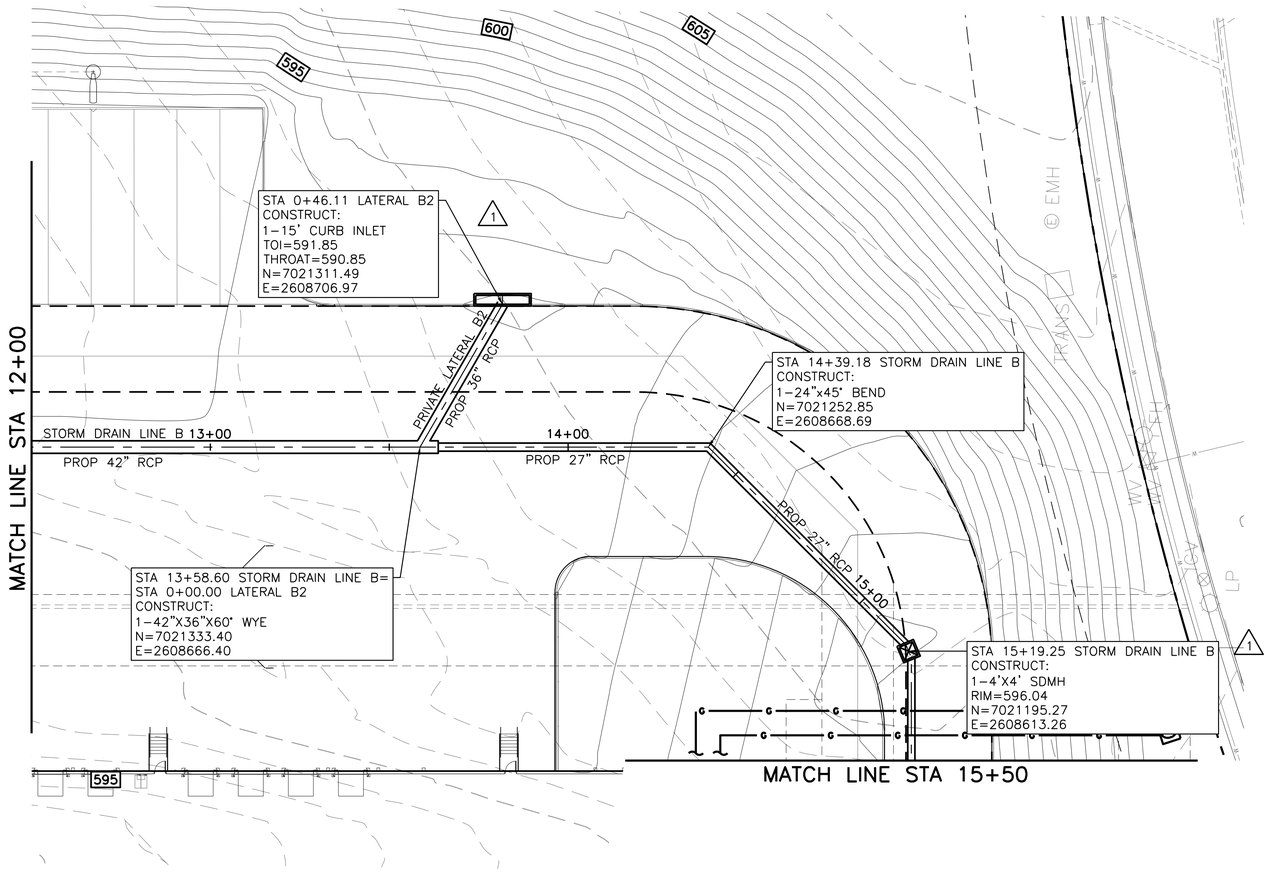

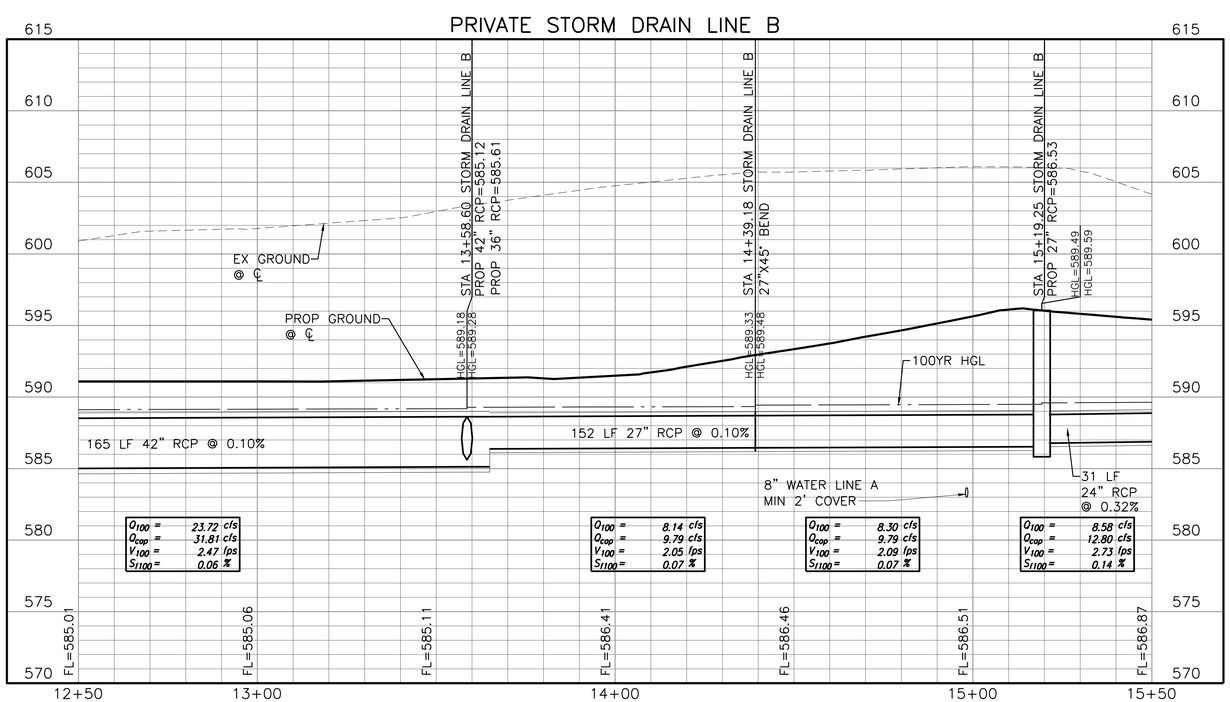

BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

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ELEV=599.67

4

N

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

2

NOTES

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3

APPLICANT INFORMATION

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PROJECT NAME

LOLLICUP USA WAREHOUSE
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RECORD DRAWINGS PREPARED ON:
3/6/2019

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CONTRACTOR / DEVELOPER
CLAYCO

LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE B PLAN AND PROFILE

DRAWING NO.
C04-07

Forum # 601-03049 Consult.# 101-03049

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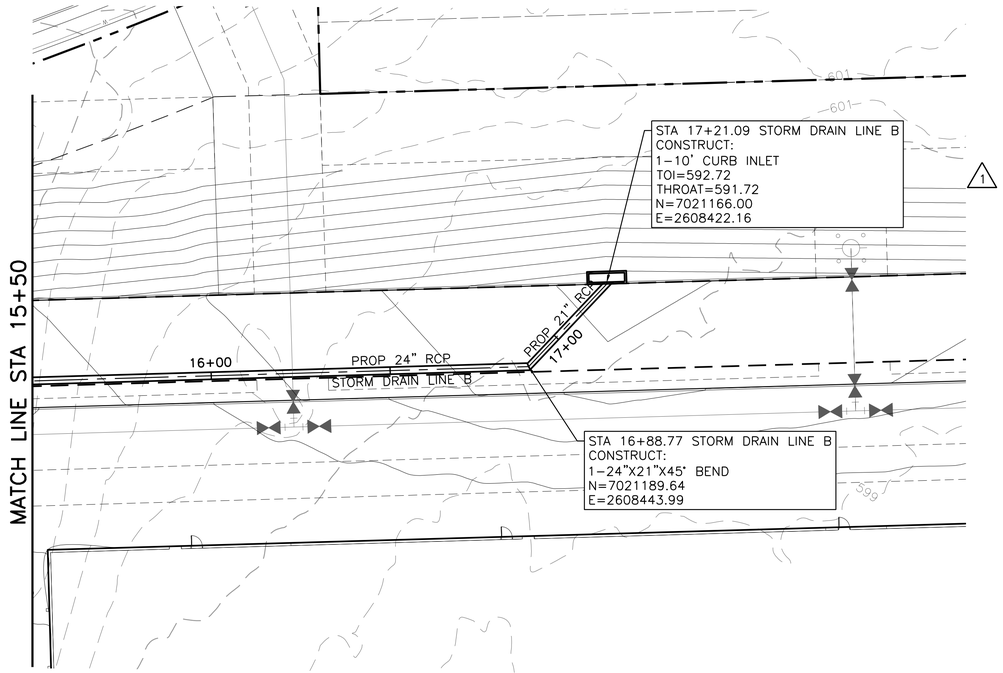

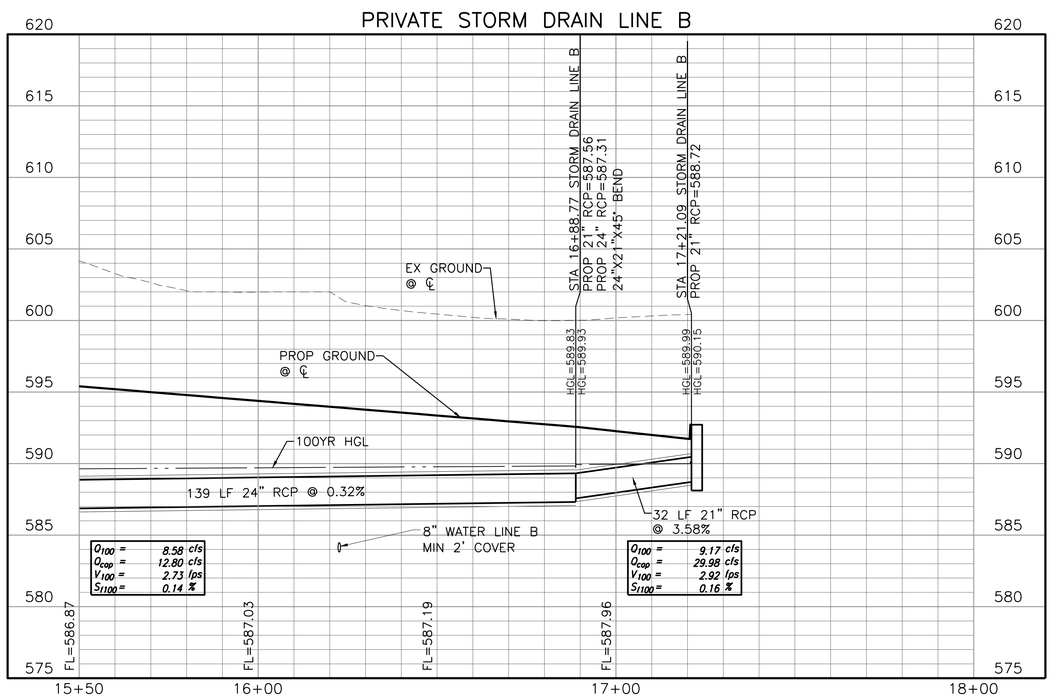

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ELEV=599.67

4

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CONTRACTOR / DEVELOPER
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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

3

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SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

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RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE B PLAN AND PROFILE

DRAWING NO.
C04-08

Forum # 601-03049 Consult.# 101-03049

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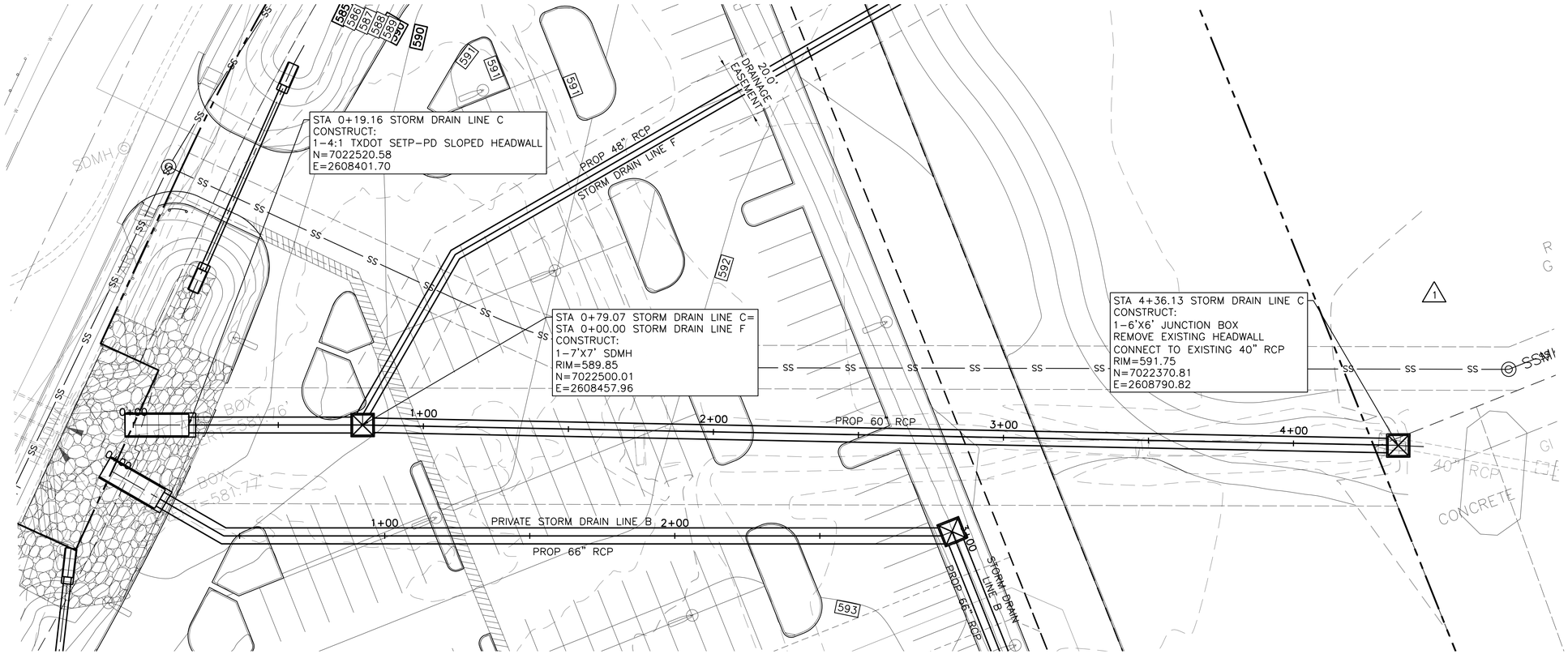
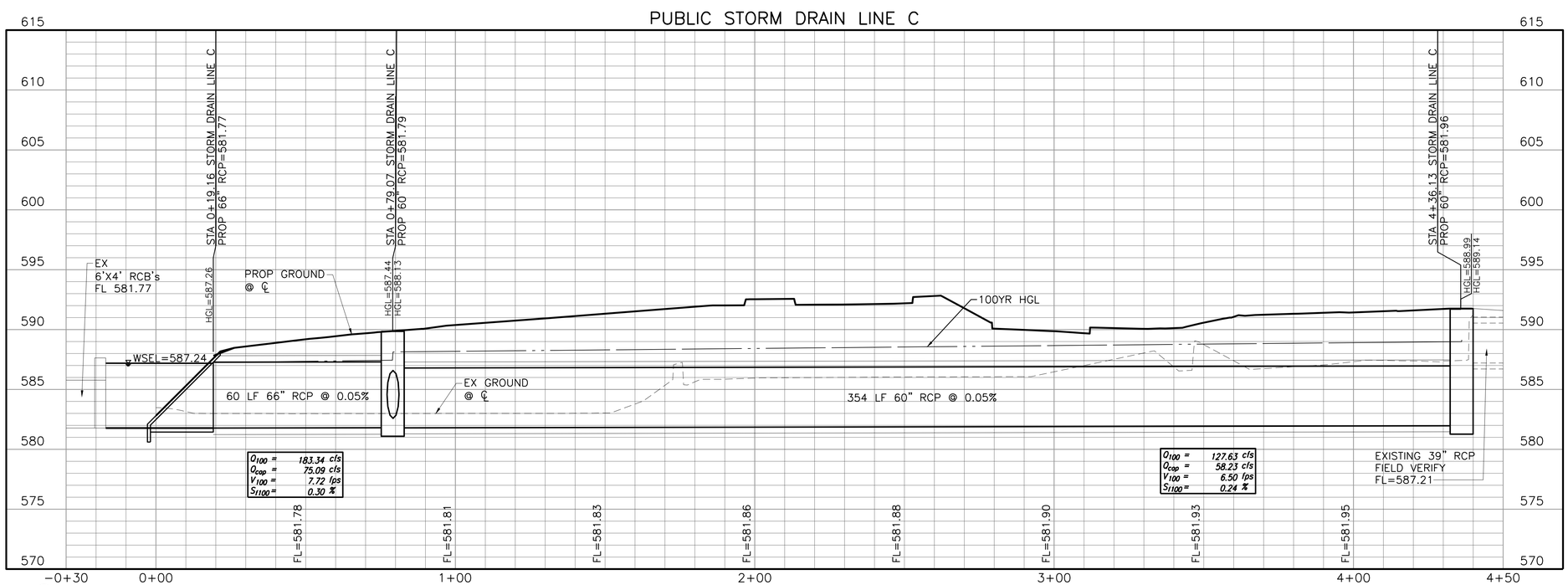
E D C B A





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SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

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3. REFER TO SHEET C06-02 FOR TXDOT SETP-PD DETAIL

APPLICANT INFORMATION

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PROJECT NAME

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CONTRACTOR / DEVELOPER
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LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

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Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

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RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE C PLAN AND PROFILE

DRAWING NO.
C04-09

Forum # 601-03049 Consult.# 101-03049

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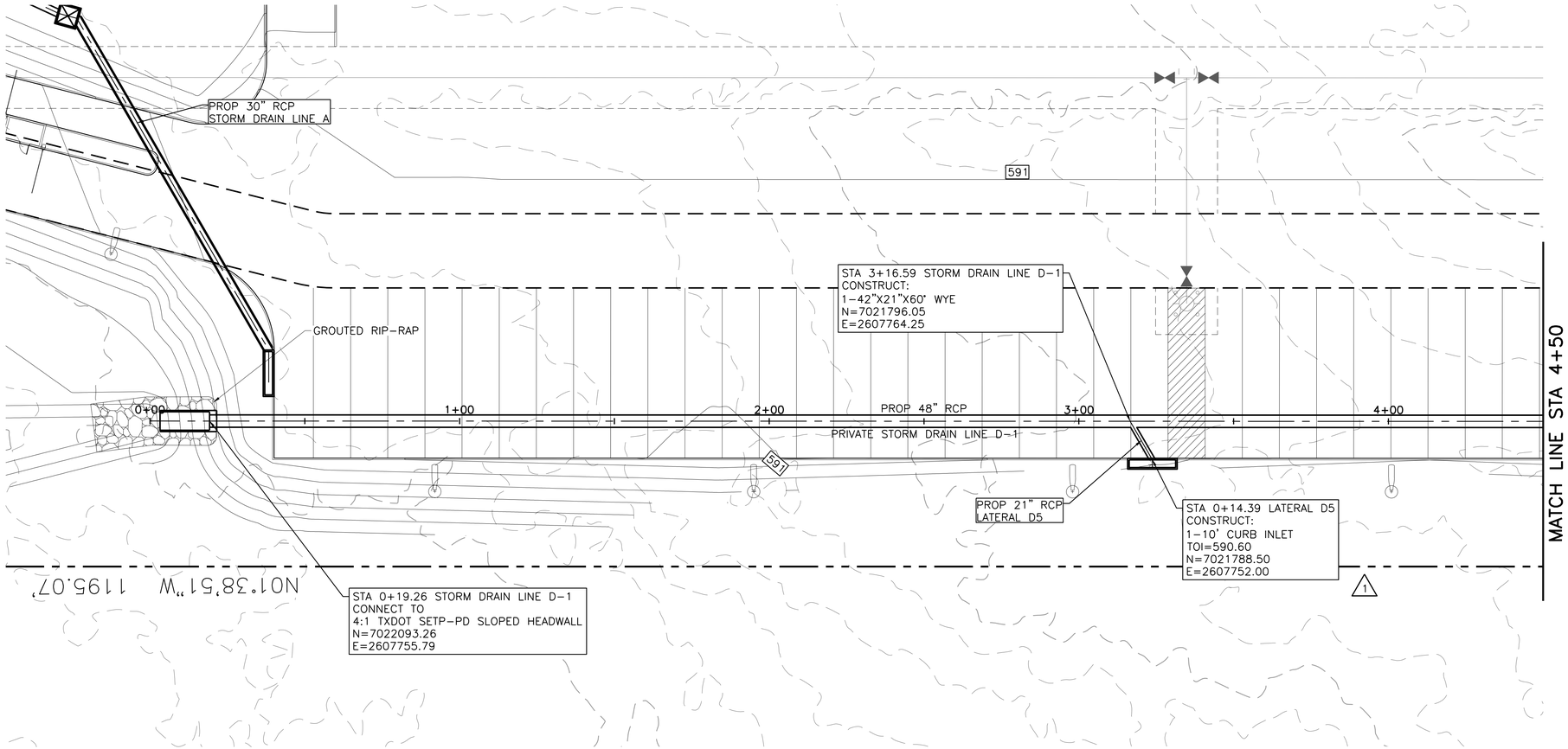

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4

N

0 20' 40'
SCALE IN FEET
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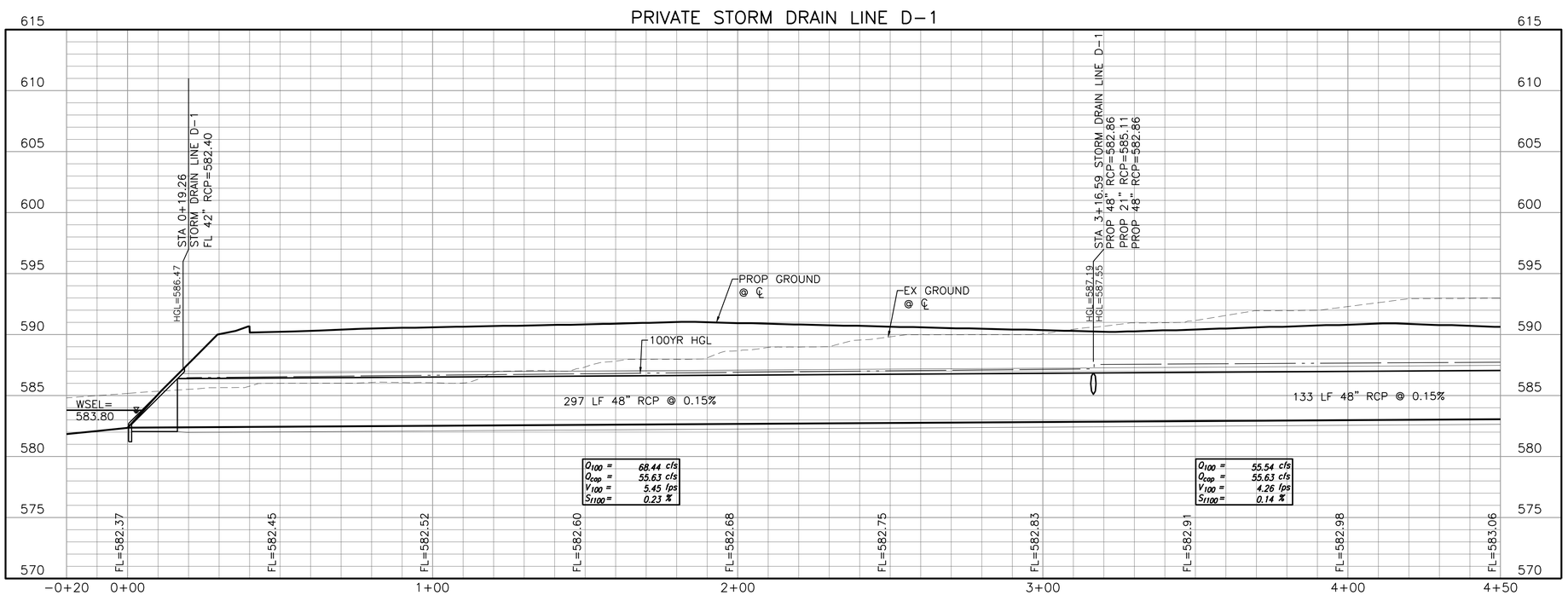

NOTES

2

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CONTRACTOR / DEVELOPER
CLAYCO

LANDSCAPE ARCHITECT
3 **FORUM**

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MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE D PLAN AND PROFILE

DRAWING NO.
C04-10

Forum # 601-03049 Consult.# 101-03049

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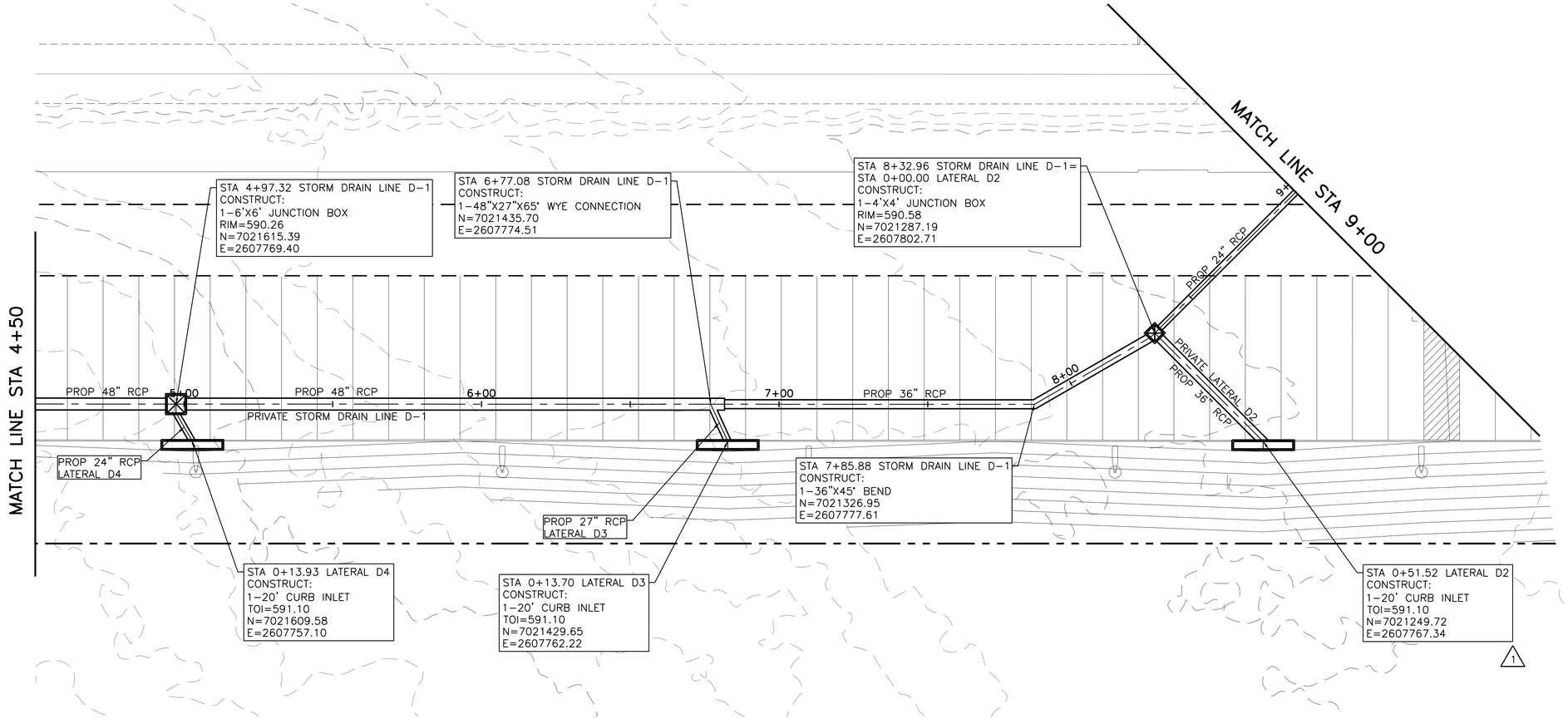
E D C B A



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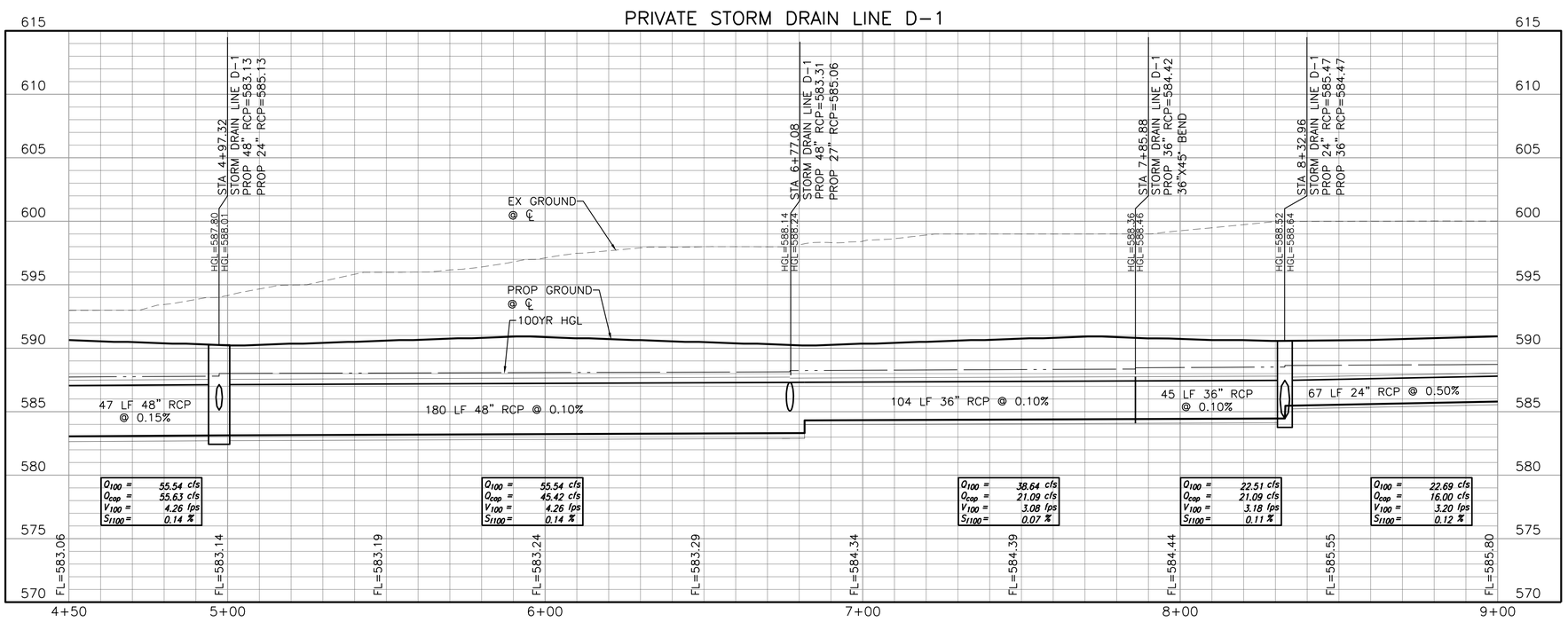

N

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CONTRACTOR / DEVELOPER
CLAYCO

LANDSCAPE ARCHITECT
FORUM 3

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MECHANICAL ENGINEER

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DRAWING TITLE
STORM DRAIN LINE D PLAN AND PROFILE

DRAWING NO.
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Forum # 601-03049 Consult.# 101-03049

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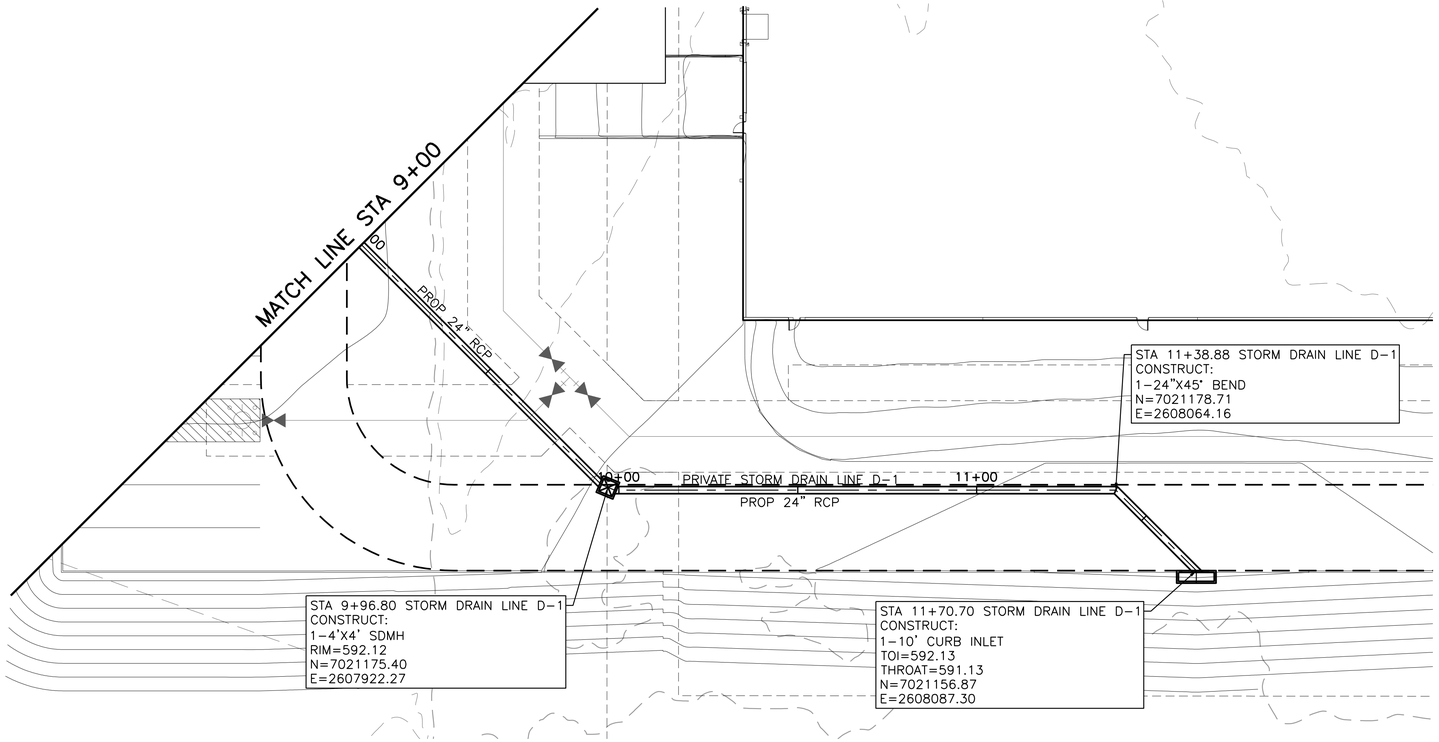

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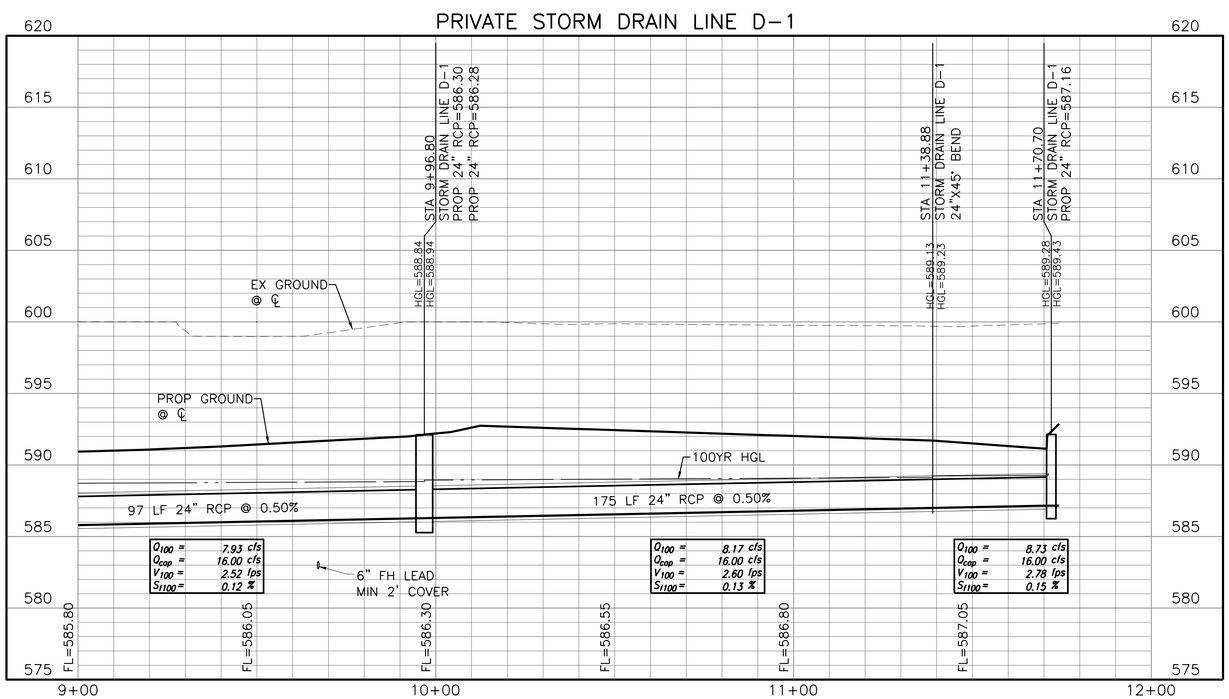

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RECORD DRAWINGS PREPARED ON:
3/6/2019

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CONTRACTOR / DEVELOPER
CLAYCO

LANDSCAPE ARCHITECT
FORUM

CIVIL ENGINEER
FREESE & NICHOLS

STRUCTURAL ENGINEER

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE D-1
PLAN AND PROFILE

DRAWING NO.
C04-12

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:06 PM

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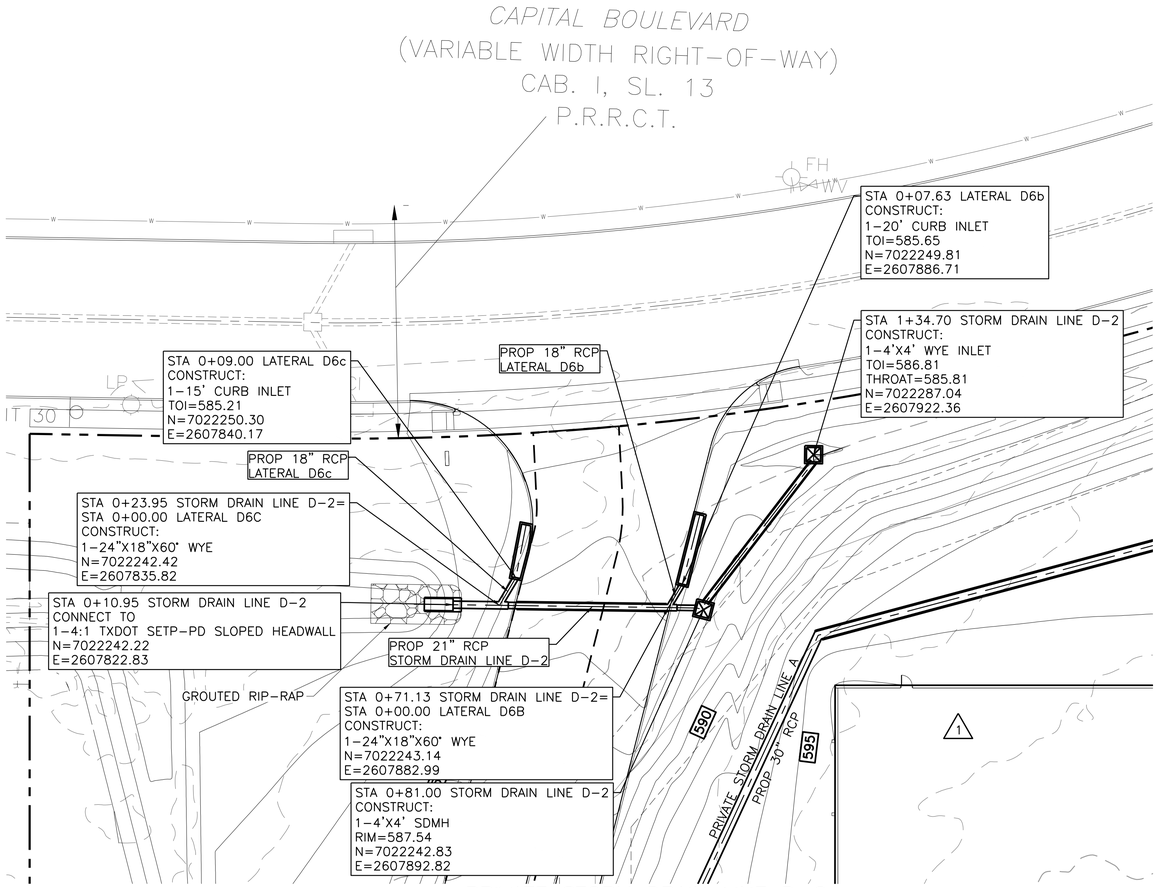
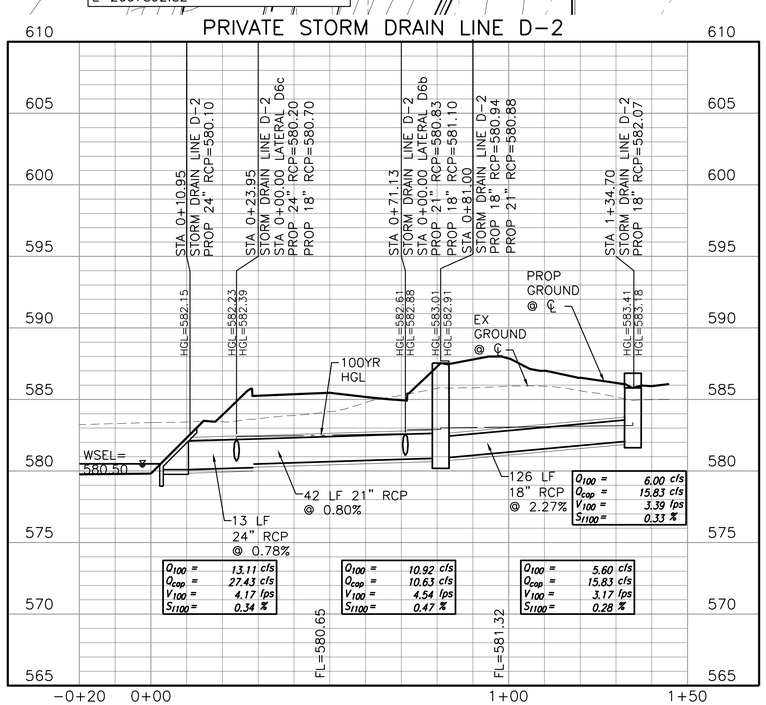
E D C B A





BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67

4

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FREESE & NICHOLS

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ELECTRICAL ENGINEER

PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

3

N

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

2

NOTES

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2. REFER TO SHEET C04-15 FOR GROUTED RIP-RAP DETAIL.
3. REFER TO SHEET C06-02 FOR TXDOT SETP-PD DETAIL

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
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SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE D-2
PLAN AND PROFILE

DRAWING NO.
C04-13

Forum # 601-03049 Consult.# 101-03049

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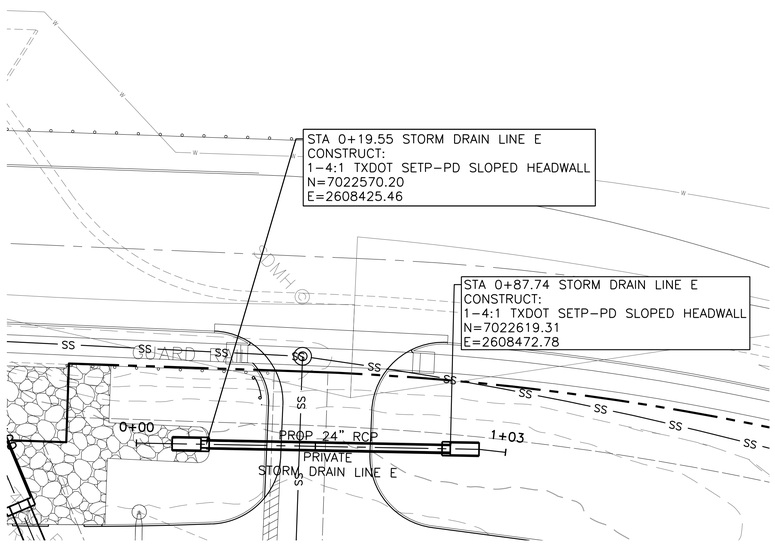

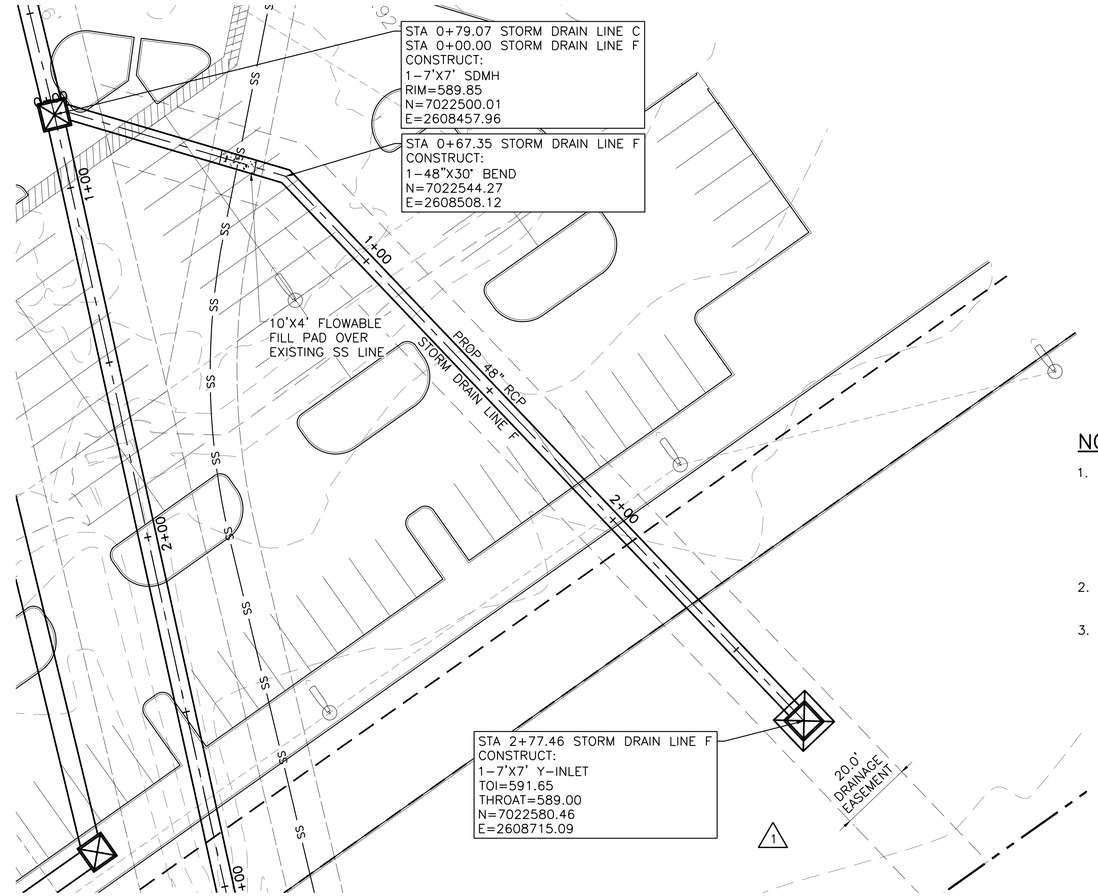

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ELEV=600.44

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ELEV=599.67

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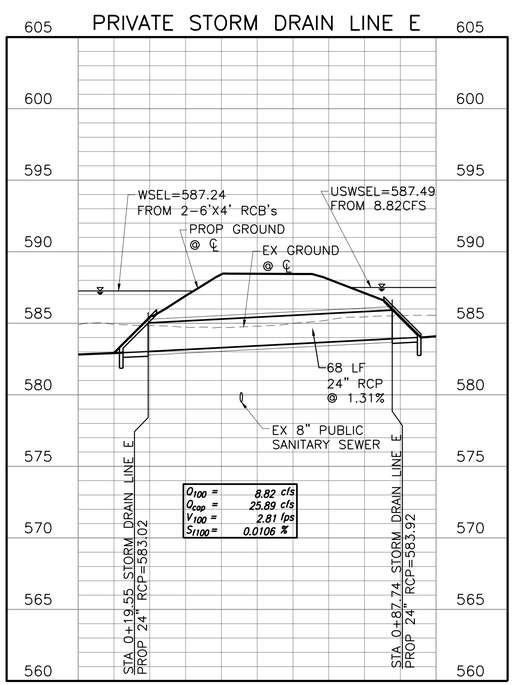
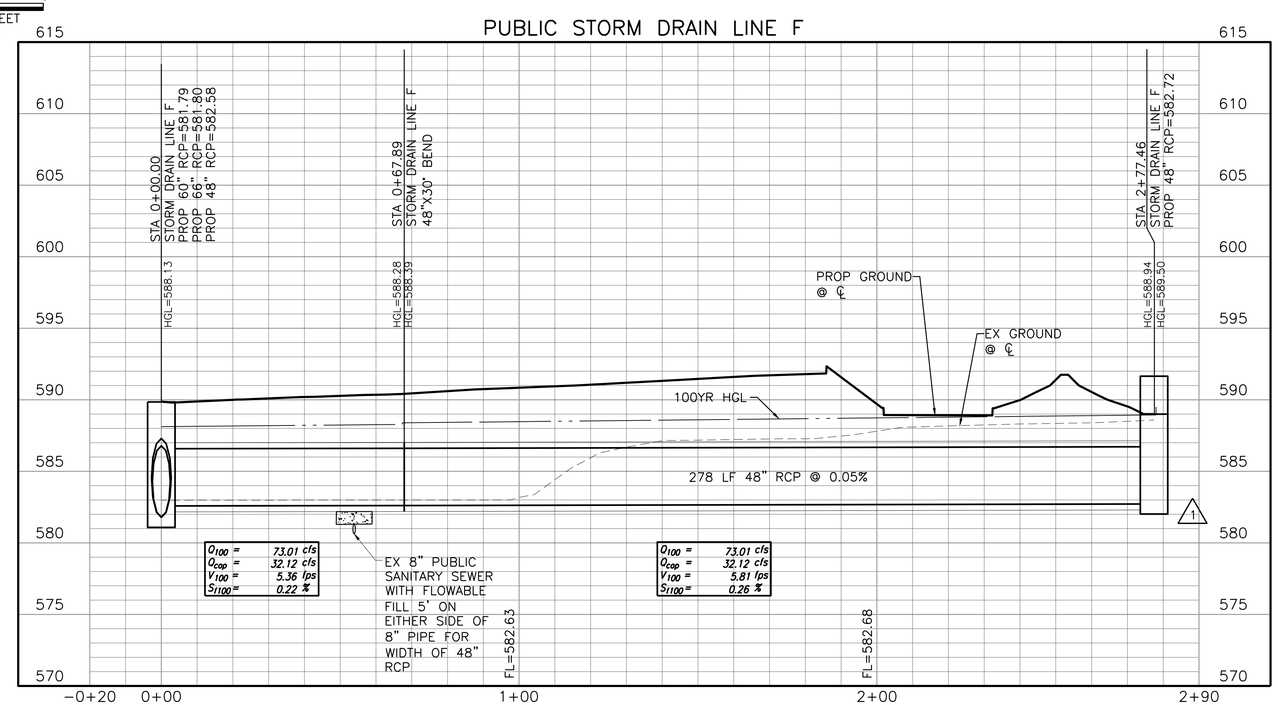
3. REFER TO SHEET C06-02 FOR TXDOT SETP-PD DETAIL

N

0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL





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PLUMBING ENGINEER

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Lollicup

ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

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ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN LINE E AND F PLAN AND PROFILE

DRAWING NO.
C04-14

Forum # 601-03049 Consult.# 101-03049

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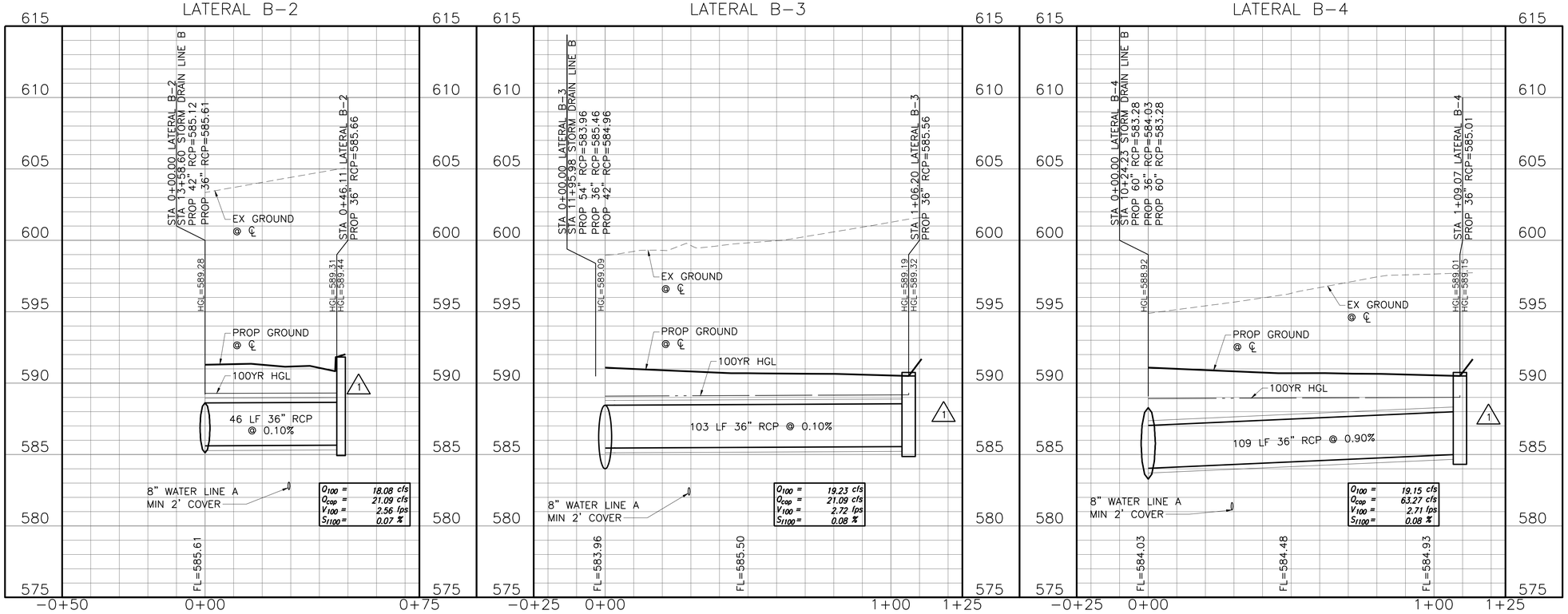

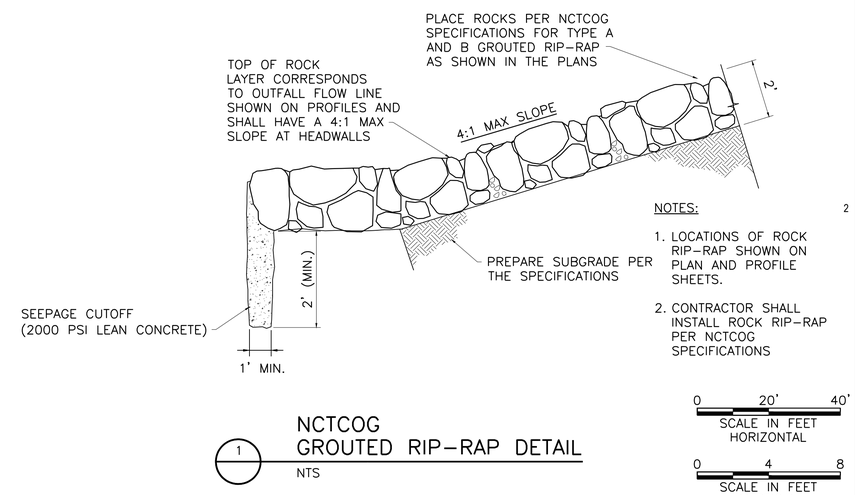

NOTES:

1. LOCATIONS OF ROCK RIP-RAP SHOWN ON PLAN AND PROFILE SHEETS.
2. CONTRACTOR SHALL INSTALL ROCK RIP-RAP PER NCTCOG SPECIFICATIONS

1 NCTCOG GROUTED RIP-RAP DETAIL

NTS

BENCHMARKS:

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FIRE PROTECTION ENGINEER

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ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
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SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN B LATERALS

DRAWING NO.
C04-15

Forum # 601-03049 Consult.# 101-03049

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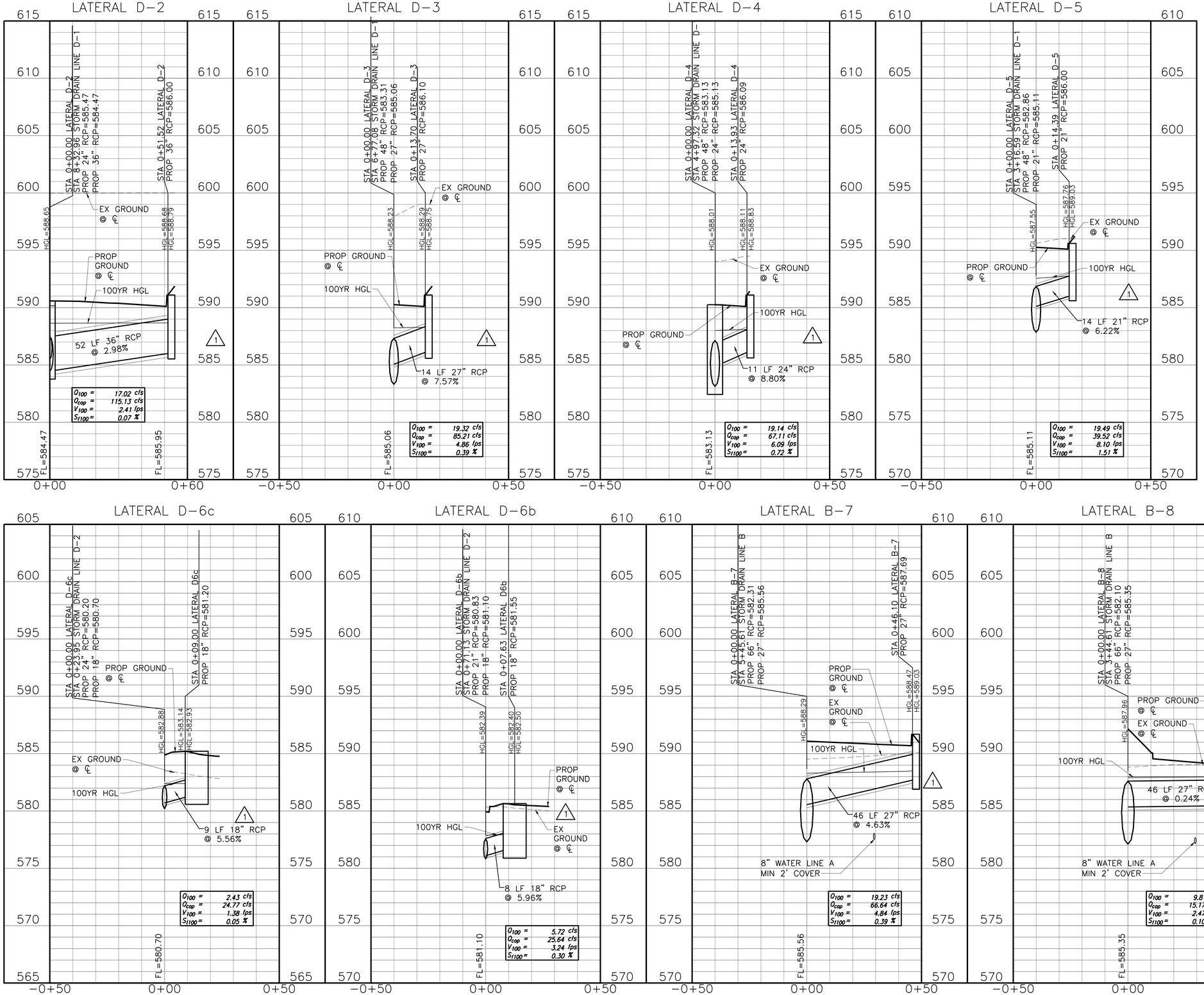

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ELEV=600.44

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ELEV=599.67

0 20' 40'
SCALE IN FEET HORIZONTAL

0 4 8
SCALE IN FEET VERTICAL

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ROCKWALL TECHNOLOGY PARK
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DESCRIPTION	DATE
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ISSUED FOR CONSTRUCTION	4/10/2018
SD RFI'S 1	6/13/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
STORM DRAIN D, B-7, AND B-8 LATERALS

DRAWING NO.
C04-16

Forum # 601-03049 Consult.# 101-03049

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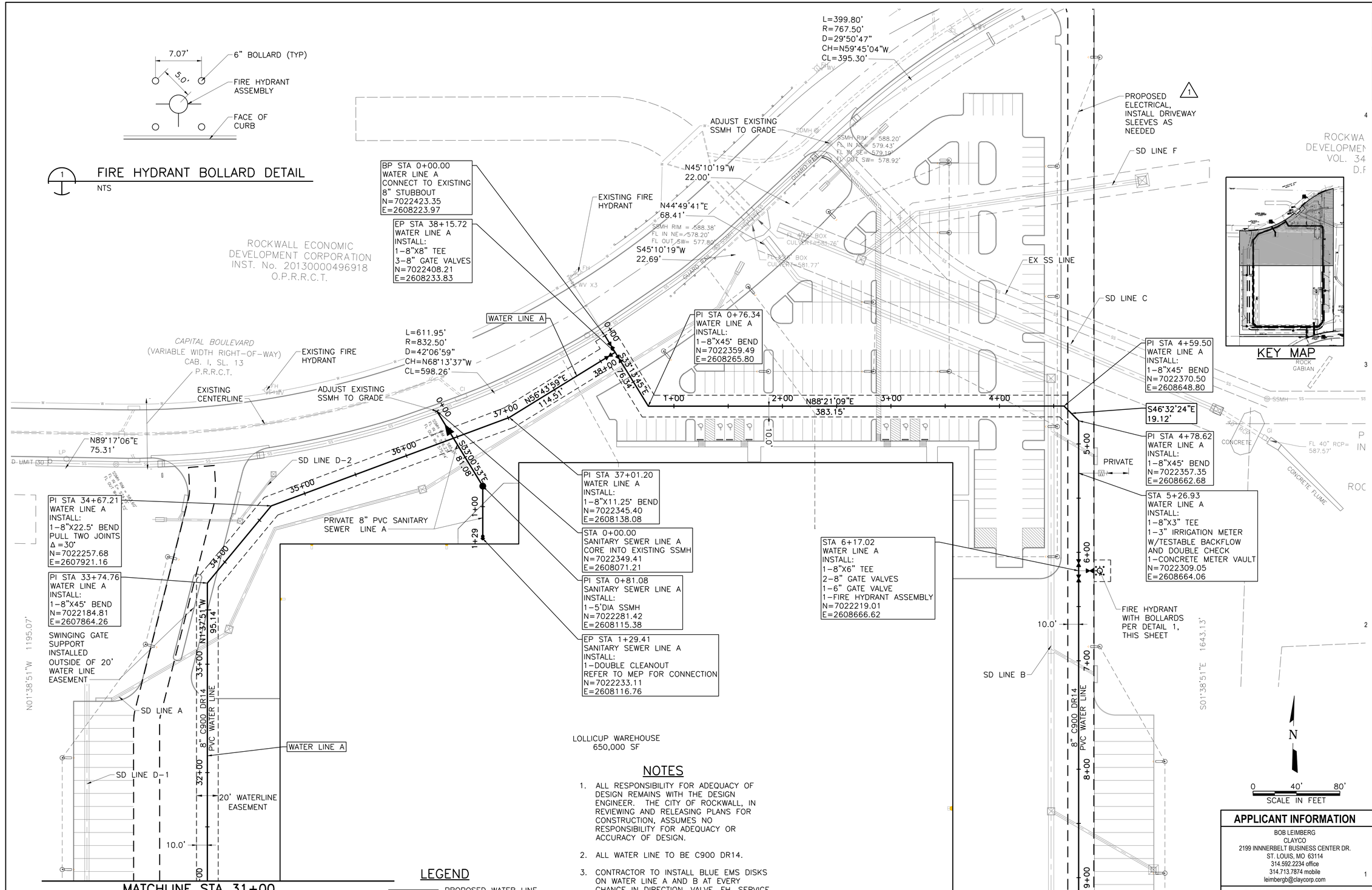
1 FIRE HYDRANT BOLLARD DETAIL
NTS



MATCHLINE STA 31+00
PROPOSED WATER LINE A

MATCHLINE STA 9+50
PROPOSED WATER LINE A

NOTES

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2. ALL WATER LINE TO BE C900 DR14.
3. CONTRACTOR TO INSTALL BLUE EMS DISKS ON WATER LINE A AND B AT EVERY CHANGE IN DIRECTION, VALVE, FH, SERVICE CONNECTION, AND 250LF.
4. CONTRACTOR TO ENSURE ALL PORTIONS OF SWINGING GATE SUPPORT AT GUARD HOUSE TO BE INSTALLED OUTSIDE OF 20' PUBLIC WATER LINE EASEMENT.
5. CONTRACTOR TO ENSURE ANY AN ALL FENCING SUPPORTS TO BE INSTALLED STRADDLING 8" WATER LINE WHERE THEY CROSS.

LEGEND

- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER METER
- PROPOSED DOUBLE CLEAN-OUT
- PROPOSED GATE VALVE

BENCHMARKS:
BENCHMARK A-AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
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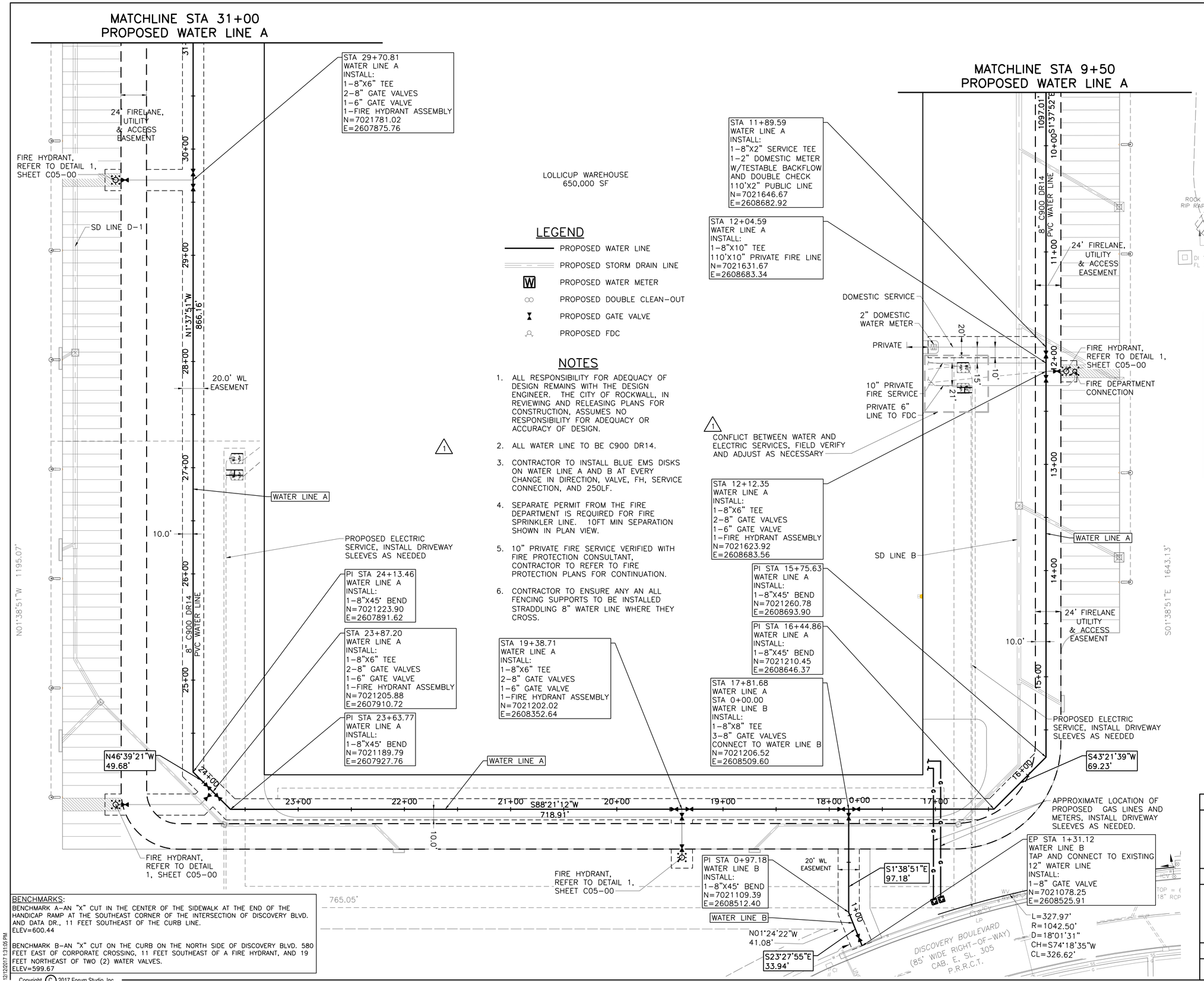
ASI NO. 5 GAS AND ELECTRIC 1	8/2/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
OVERALL UTILITY PLAN

DRAWING NO.
C05-00

Forum # 601-03049 Consult.# 101-03049



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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

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PROJECT NAME

LOLLICUP USA WAREHOUSE
CASE NUMBER:

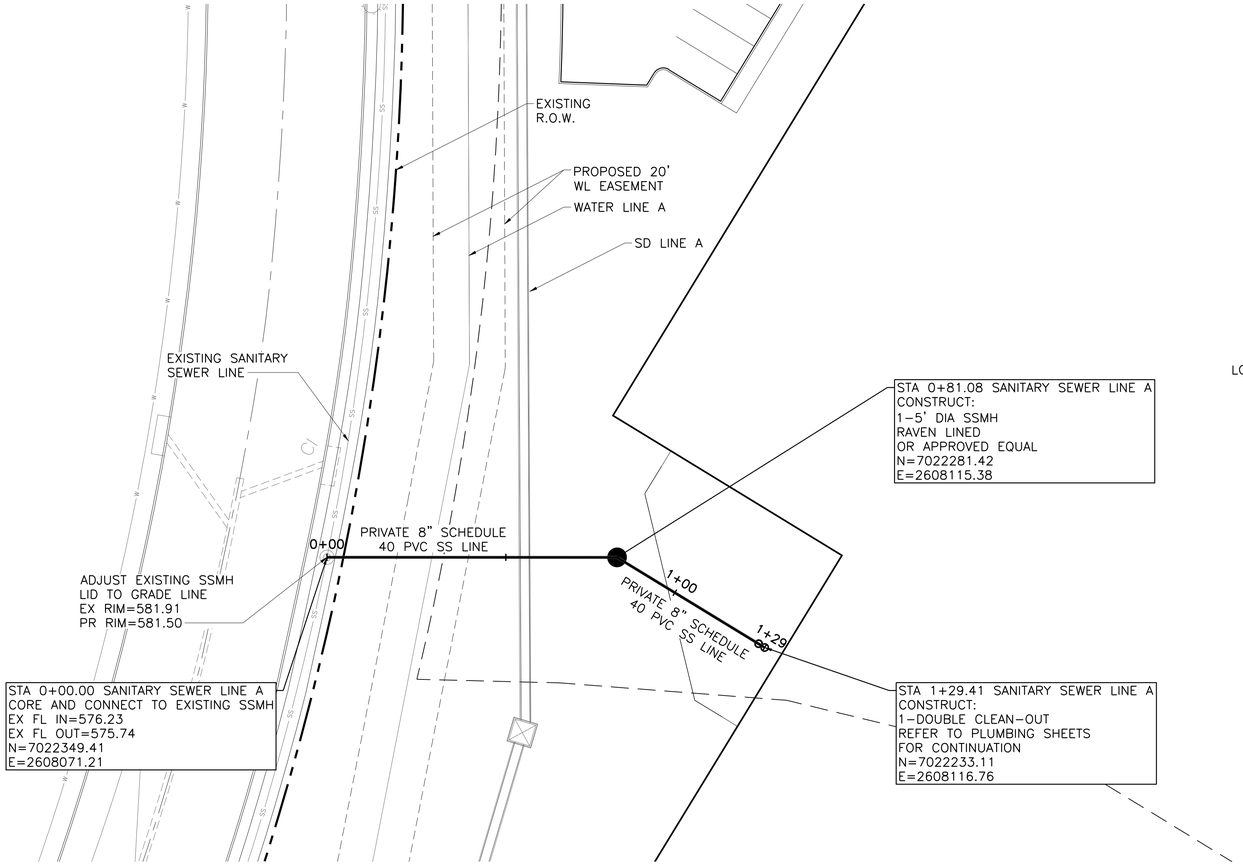
DRAWING ISSUE

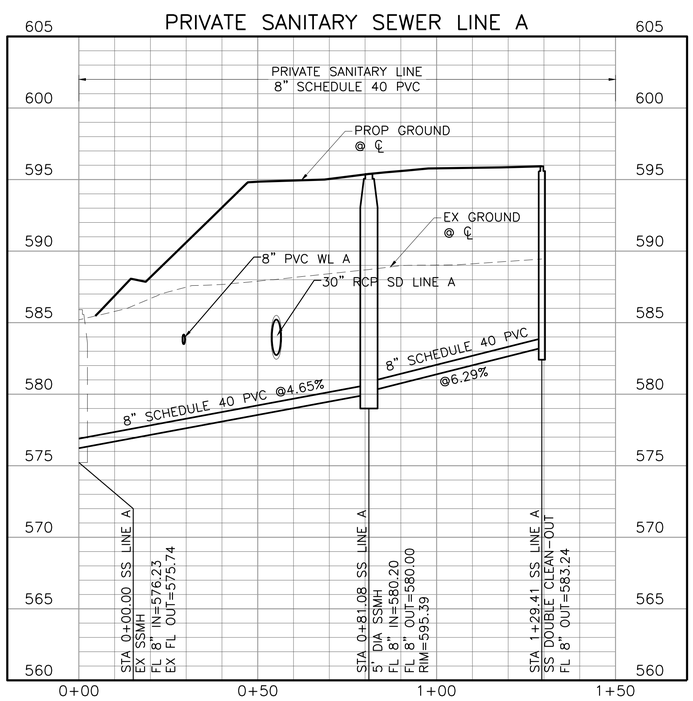
DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
ASI NO. 5 GAS AND ELECTRIC 1	8/2/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
OVERALL UTILITY PLAN

DRAWING NO.
C05-01

Forum # 601-03049 Consult.# 101-03049





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2. 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.

BENCHMARKS:

BENCHMARK A–AN "X" CUT IN THE CENTER OF THE SIDEWALK AT THE END OF THE HANDICAP RAMP AT THE SOUTHEAST CORNER OF THE INTERSECTION OF DISCOVERY BLVD. AND DATA DR., 11 FEET SOUTHEAST OF THE CURB LINE.
ELEV=600.44

BENCHMARK B–AN "X" CUT ON THE CURB ON THE NORTH SIDE OF DISCOVERY BLVD. 580 FEET EAST OF CORPORATE CROSSING, 11 FEET SOUTHEAST OF A FIRE HYDRANT, AND 19 FEET NORTHEAST OF TWO (2) WATER VALVES.
ELEV=599.67

4

N

0 20' 40'
SCALE IN FEET

2

3

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TEXAS NO. 120100 ON 6/12/2018
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FREESE AND NICHOLS, INC.
RECORD DRAWINGS PREPARED ON:
3/6/2019

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Lollicup

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ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
1 SS ELEVATION REV	6/1/2018
RECORD DRAWING	3/6/2019

DRAWING TITLE
SANITARY SEWER PLAN AND PROFILE

DRAWING NO.
C05-02

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:05 PM

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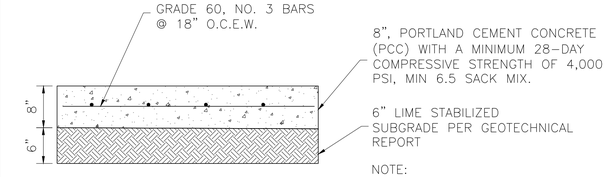
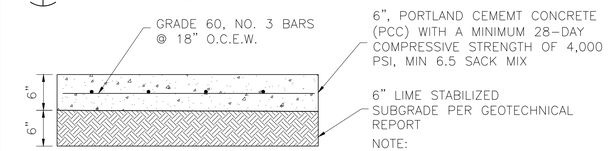
E D C B A



NOTE:
1. NO SAND ALLOWED.

1 8" HEAVY-DUTY CONCRETE SECTION
NOT TO SCALE



NOTE:
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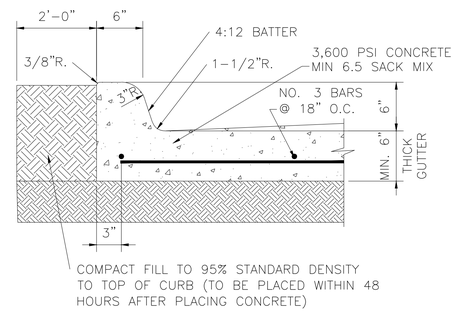
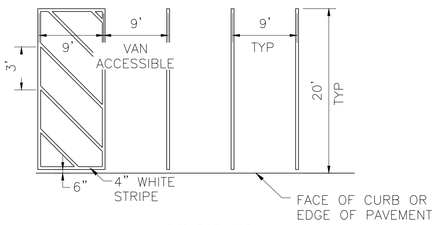
2 6" MODERATE-DUTY CONCRETE SECTION
NOT TO SCALE

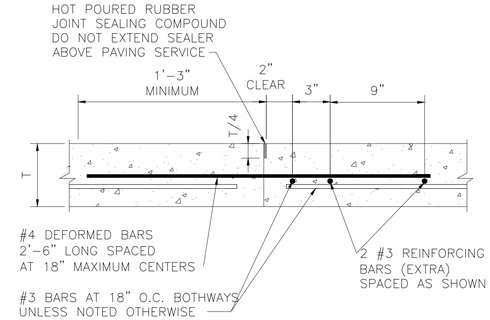


3 MONOLITHIC CURB DETAIL
NOT TO SCALE



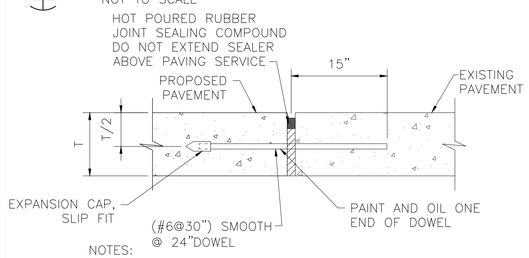
90° PARKING

4 PARKING STRIPE W/ VAN ACCESSIBLE DETAIL
NOT TO SCALE



NOTE:
1. TO BE USED ONLY IF DRIVEWAY CANNOT BE POURED AT ONCE.

5 CONSTRUCTION JOINT
NOT TO SCALE

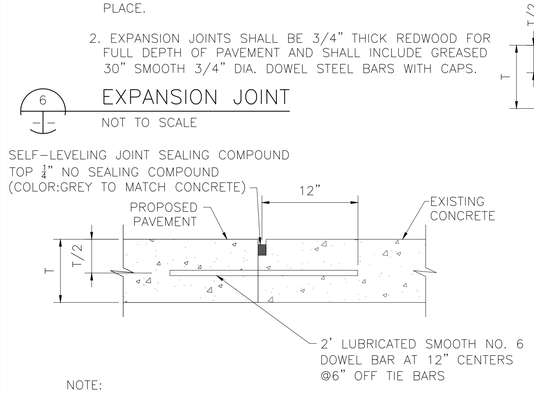


NOTES:

1. FOR EXISTING PAVEMENT – DRILL AND EPOXY DOWEL IN PLACE.

2. EXPANSION JOINTS SHALL BE 3/4" THICK REDWOOD FOR FULL DEPTH OF PAVEMENT AND SHALL INCLUDE GREASED 30" SMOOTH 3/4" DIA. DOWEL STEEL BARS WITH CAPS.

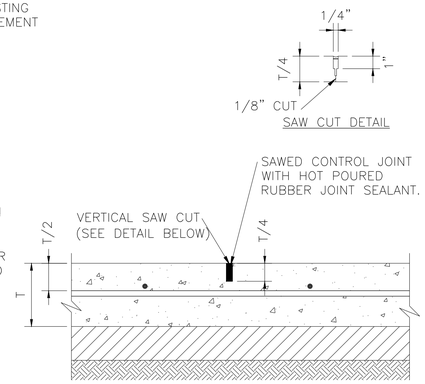
6 EXPANSION JOINT
NOT TO SCALE



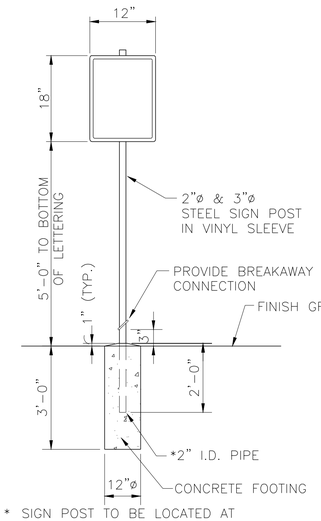
NOTE:

1. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.

7 LONGITUDINAL BUTT JOINT
NOT TO SCALE

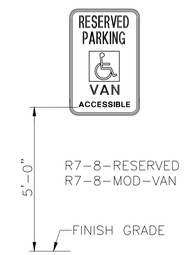


8 SAWED CONTROL JOINT
NOT TO SCALE

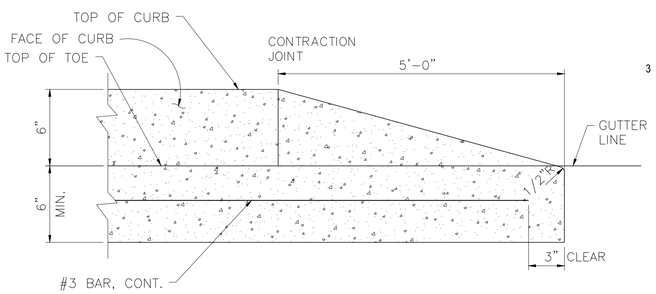


* SIGN POST TO BE LOCATED AT BACK OF SIDEWALK AS INDICATED ON PAVING PLAN SHEET

9 ADA PARKING SIGN
N.T.S.



10 RESERVED AND VAN ACCESSIBLE PARKING SIGN
N.T.S.



11 CURB TERMINAL DETAIL – TYP.
N.T.S.

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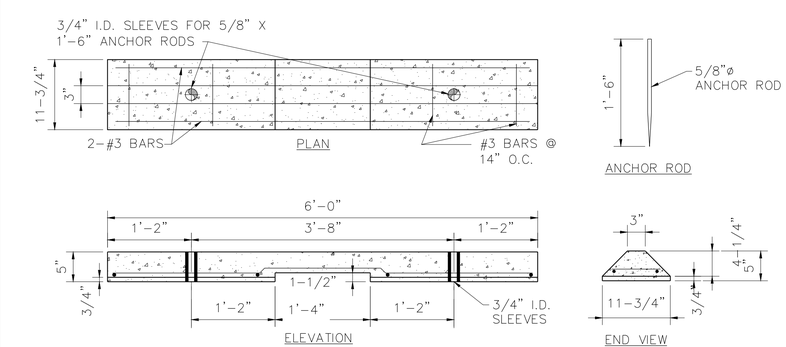
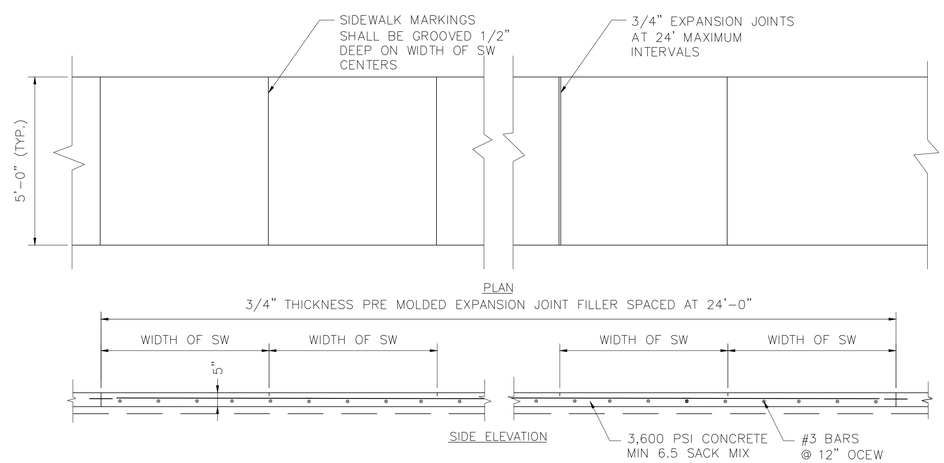
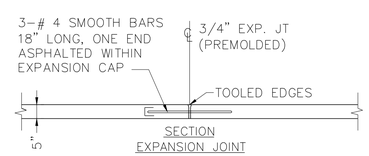


12 WHEEL STOP DETAIL
NOT TO SCALE



13 SIDEWALK PAVING
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE

NOTES:

1. JOINTS SHALL BE EQUALLY SPACED BETWEEN SIDEWALK INTERSECTION JOINTS. REFERENCE PLAN FOR INTERSECTION JOINTS

2. NO SAND ALLOWED.

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PLUMBING ENGINEER

FIRE PROTECTION ENGINEER

Lollicup
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ISSUED FOR CONSTRUCTION	4/10/2018
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DRAWING TITLE
PAVING DETAILS

DRAWING NO.
C06-00

Forum # 601-03049 Consult.# 101-03049

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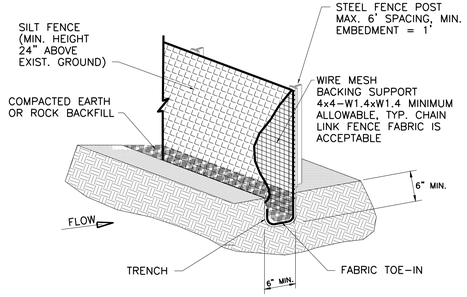


ISOMETRIC PLAN VIEW

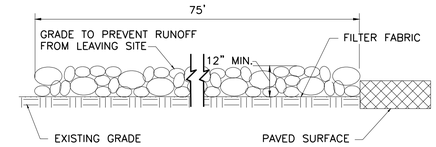
NOT TO SCALE

SILT FENCE GENERAL NOTES:

1. STEEL 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 STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
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.

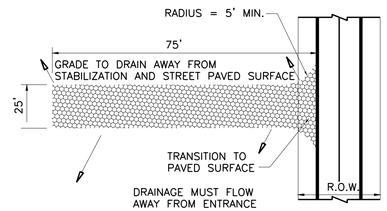
1 SILT FENCE

NOT TO SCALE



PROFILE VIEW

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

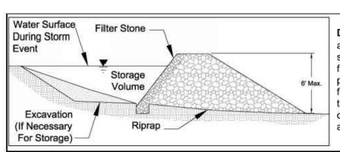
1. STONE SHALL BE 4 TO 6 INCH DIAMETER CRUSHED ROCK. NO CRUSHED PORTLAND CEMENT CONCRETE IS ALLOWED.
2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
3. THE THICKNESS 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 CITY 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.

2 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

3.12 Stone Outlet Sediment Trap

Sediment Control



Description: A stone outlet sediment trap is a small detention area formed by placing a stone embankment with an integral stone filter outlet across a drainage swale for the purpose of detaining sediment-laden runoff from construction activities. The sediment trap detains runoff long enough to allow most of the suspended sediment to settle while still allowing for diffused flow of runoff.

KEY CONSIDERATIONS

DESIGN CRITERIA:

- Maximum contributing drainage area of 10 acres for excavated trap and 5 acres for bermed trap
- Provide storage volume for the 2-year, 24-hour design storm
- Maximum embankment height of 6 feet
- Embankment slope of 1.5:1 or flatter
- 2 foot minimum top width

ADVANTAGES / BENEFITS:

- Effectively traps sediment in a drainage swale
- Reduces flow velocities
- Relatively long effective life

DISADVANTAGES / LIMITATIONS:

- Amount of land required
- Can cause minor upstream flooding, possibly impacting construction operations
- Not for use in "live" (normally flowing) channels

MAINTENANCE REQUIREMENTS:

- Inspect regularly
- Replace filter stone when it appears to be silted in such that efficiency is diminished
- Remove trash and debris after each storm event
- Remove deposited sediment when before the storage capacity is reduced by one third or has reached a depth of one foot, whichever is less

APPLICATIONS

Perimeter Control
Slope Protection
Sediment Barrier
Channel Protection
Temporary Stabilization
Final Stabilization
Waste Management
Housekeeping Practices

Fe=0.50-0.85
(*Depends on soil type*)

IMPLEMENTATION CONSIDERATIONS

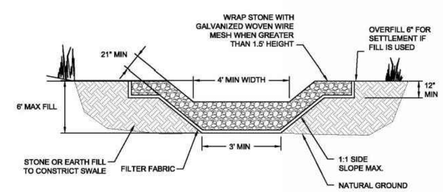
- ◒ Capital Costs
- ◒ Maintenance
- ○ Training
- ● Suitability for Slopes > 5%

Other Considerations:

- *Re-grading and stabilization of the control area after construction*

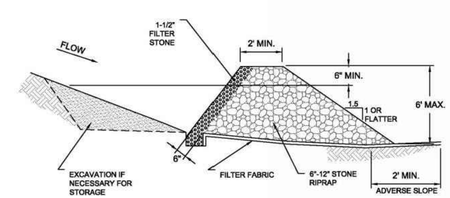
TARGETED POLLUTANTS

- ● Sediment
- ○ Nutrients & Toxic Materials
- ○ Oil & Grease
- ◒ Floatable Materials
- ○ Other Construction Wastes



EXCAVATED STONE OUTLET SEDIMENT TRAP VIEW LOOKING UPSTREAM

N.T.S.



EXCAVATED STONE OUTLET SEDIMENT TRAP SECTION VIEW

N.T.S.

NOTE: ACTUAL DIMENSIONS OF THE SEDIMENT TRAP SHALL BE DESIGNED BASED ON FLOW CONDITIONS AND SITE TOPOGRAPHY. PROVIDE CALCULATIONS THAT DOCUMENT THE FOLLOWING PARAMETER USED TO DESIGN THE TRAP.

- SIZE OF CONTRIBUTING DRAINAGE AREA
- DESIGN STORM VOLUME AND FLOW RATE AT THE TRAP
- HEIGHT, SLOPE, AND LENGTH OF STONE OUTLET
- STORAGE VOLUME
- EXTENT OF GRADING TO PROVIDE THE CONTROLLED OUTLET

Figure 3.30 Schematics of Excavated Stone Outlet Sediment Trap

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FREESE AND NICHOLS, INC.
RECORD DRAWINGS PREPARED ON:
3/6/2019

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ROCKWALL TECHNOLOGY PARK
ROCKWALL, TEXAS

DRAWING ISSUE

DESCRIPTION	DATE
ENGINEERING SUBMITTAL CITY OF ROCKWALL	2/2/2018
ENGINEERING REVIEW 2ND SUBMITTAL	3/2/2018
ENGINEERING REVIEW 3RD SUBMITTAL	3/23/2018
ISSUED FOR CONSTRUCTION	4/10/2018
RECORD DRAWING	12/17/2018

DRAWING TITLE
EROSION CONTROL DETAILS

DRAWING NO.
C06-01

Forum # 601-03049 Consult.# 101-03049

12/12/2017 1:31:05 PM

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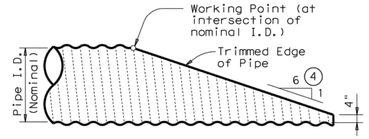
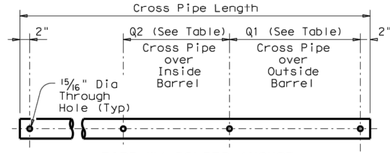


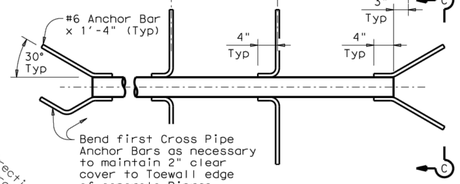
NOTE: All Cross Pipes, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

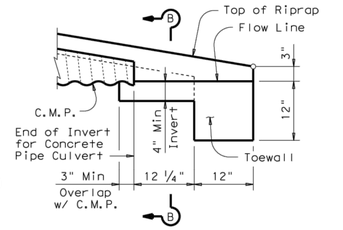
(Showing Corrugated Metal Pipe Culvert.)
(Details at Concrete Pipe Culvert are similar.)



PIPE W/ BOLTED ANCHOR

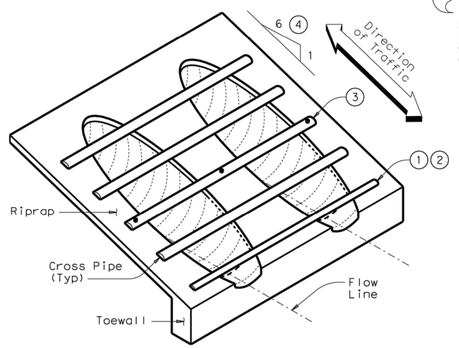


PIPE W/ ANCHOR BARS

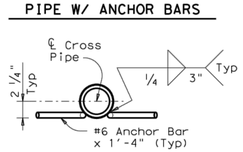


DETAIL "A"

(Showing Invert with Corrugated Metal Pipe Culvert. Concrete Pipe Culvert details are similar. Cross Pipes not shown for clarity.)

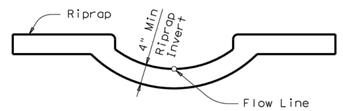


ISOMETRIC VIEW OF TYPICAL INSTALLATION



SECTION C-C

CROSS PIPE DETAILS



SECTION B-B

(Cross Pipes not shown for clarity.)

CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, & RIPRAP QUANTITIES (2)

Nominal Culvert I.D.	Conc Riprap (CY) (6)	Pipe Culvert Spa ~ G	Single Barrel ~ Q1	Multi-Barrel ~ Q1	Q2	Conditions for use of Cross Pipes	Cross Pipe Size
12"	0.6	9"	N/A	2'- 1"	1'- 9"	3 or more Pipe Culverts	3" Std (3.500" O.D.)
15"	0.7	11"	N/A	2'- 5"	2'- 2"		
18"	0.8	1'- 2"	N/A	2'-10"	2'- 8"		
21"	0.9	1'- 4"	N/A	3'- 2"	3'- 1"		
24"	0.9	1'- 7"	N/A	3'- 6"	3'- 7"		
27"	1.0	1'- 8"	N/A	3'-10"	3'-11"	3 or more Pipe Culverts	3 1/2" Std (4.000" O.D.)
30"	1.1	1'-10"	N/A	4'- 2"	4'- 4"	2 or more Pipe Culverts	
33"	1.2	1'-11"	4'- 2"	4'- 5"	4'- 8"	All Pipe Culverts	
36"	1.3	2'- 1"	4'- 5"	4'- 9"	5'- 1"	All Pipe Culverts	4" Std (4.500" O.D.)
42"	1.5	2'- 4"	4'-11"	5'- 5"	5'-10"		
48"	1.7	2'- 7"	5'- 5"	6'- 0"	6'- 7"	All Pipe Culverts	5" Std (5.563" O.D.)
54"	2.0	3'- 0"	5'-11"	6'- 9"	7'- 6"		
60"	2.2	3'- 3"	6'- 5"	7'- 4"	8'- 3"		
66"	2.4	3'- 3"	6'-11"	7'-10"	8'- 9"		
72"	2.7	3'- 4"	7'- 5"	8'- 5"	9'- 4"		

(1) The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.

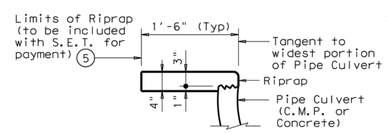
(2) Size of Cross Pipes, except the first bottom pipe, shall be as shown in the PIPE SIZE table. The first bottom pipe shall be 3 1/2" Standard Pipe (4" O.D.).

(3) The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, all other Cross Pipes may also be installed using the bolted connection details.

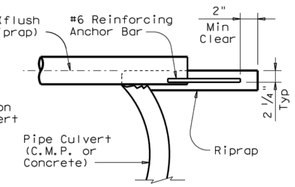
(4) Match Cross Slope as shown elsewhere in the plans. Cross Slope of 6:1 or flatter is required for vehicle safety.

(5) Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

(6) Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple pipe culverts or for Corrugated Metal Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.



SHOWING TYPICAL PIPE CULVERT & RIPRAP



SHOWING CROSS PIPE WITH ANCHOR BAR

GENERAL NOTES:

Cross Pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Cross Pipes.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

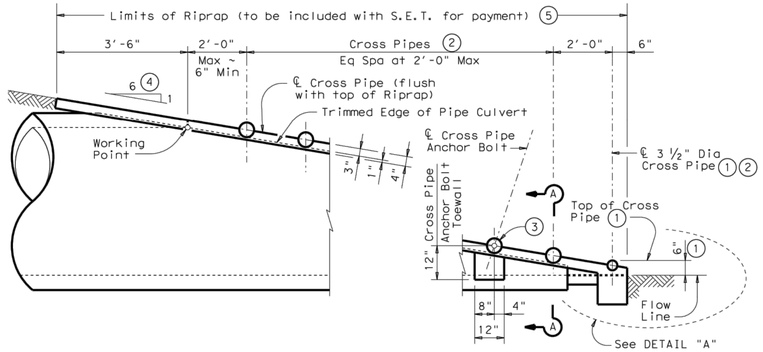
Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Cross Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

(Showing Concrete Pipe Culvert.)
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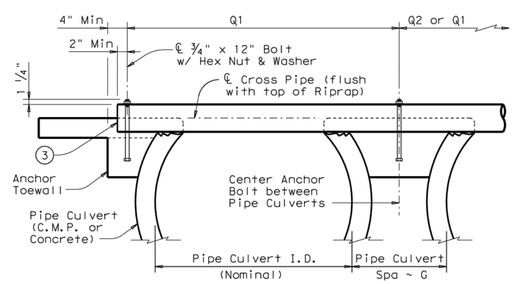

SHOWING CROSS PIPE WITH BOLTED ANCHOR

SECTION A-A

Texas Department of Transportation — Bridge Division Standard

SAFETY END TREATMENT

FOR 12" DIA TO 72" DIA
PIPE CULVERTS
TYPE II ~ PARALLEL DRAINAGE

SETP-PD

FILE: setppdse.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS 11-10: Add note for synthetic fibers.	DIST		COUNTY	SHEET NO.

NOTES

1. 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.

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RECORD DRAWING	12/17/2018

DRAWING TITLE
TXDOT SAFETY END TREATMENT DETAILS

DRAWING NO.
C06-02

Forum # 601-03049 Consult.# 101-03049

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PROJECT NAME
LOLLICUP USA WAREHOUSE
CASE NUMBER:

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