

OFFICE BUILDING SITE DEVELOPMENT

1.082 ACRES OF LAND BEING LOT 6, BLOCK A OF TEMUNOVIC ADDITION, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

ASSEMBLY
SCALE: 1" = 20'
PIPE STORAGE: 8,684 CF
LOADING: H2O
PIPE INV. = 550.01'

STUB INFORMATION		
PIECE	STUB INVERT	SYSTEM INVERT
18" STUB F2	550.01	550.01
36" STUB G2	550.00	550.01

RISER INFORMATION		
PIECE	RIM ELEV.	SYSTEM INVERT
36" RISER F1	558.00	550.01
36" RISER G1	558.00	550.01

TYPICAL SECTION VIEW
SCALE: N.T.S.

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

TYPICAL BACKFILL DETAIL
NOT TO SCALE

NOTE: ALL RISERS AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELASING FOR FABRICATION. ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A886. ALL RISERS AND STUBS ARE 28" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED. RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR. QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAIL PROVIDES NOMINAL INLET AND OUTLET PIPE STUBS FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (3) PAGES INCLUDING THE FOLLOWING:

- PIPE STORAGE = 8,684 CF
- MAINLINE PIPE GAGE = 16
- WALL TYPE = SOLID
- DIAMETER = 48"
- FINISH = ALT2
- CORRUIGATION = 2 2/3x1/2

CUSTOMER _____ DATE _____

PROJECT NO.	583953	DATE	2/23/2018
DRAWN	LMO	CHECKED	PDW
DATE	01/11/18	DATE	01/11/18
DESCRIPTION	PROPOSAL	DESCRIPTION	PROPOSAL
BY	P1	BY	3

TYPICAL BACKFILL DETAIL
NOT TO SCALE

DIAMETER	MIN. COVER	CORR. PROFILE
6"-10"	12"	110°x1/4"
12"-48"	12"	2 2/3°x1/2"
54"-72"	12"	3°x1/2" x 1/2"

CONNECTION DETAIL
7 1/2" TECHCO

2 2/3" x 1/2" RE-ROLED END HEL-COR PIPE

GENERAL NOTES:

- BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.
- BANDS ARE SHAPED TO MATCH THE PIPE ARCH WHEN APPLICABLE.
- BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
 - 12" THRU 48" 1-PIECE
 - 54" THRU 84" 3-PIECES
 - 102" THRU 144" 5-PIECES
- BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
- ALL CMP IS RECYCLED TO HAVE ANNULAR END CORRUGATIONS OF 2 2/3°x1/2"
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

H-12 HUGGER BAND DETAIL
NOT TO SCALE

TYPICAL BACKFILL DETAIL
NOT TO SCALE

NOTE: ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

PROJECT NO.	583953	DATE	2/23/2018
DRAWN	LMO	CHECKED	PDW
DATE	01/11/18	DATE	01/11/18
DESCRIPTION	PROPOSAL	DESCRIPTION	PROPOSAL
BY	P2	BY	3

CONSTRUCTION LOADING DIAGRAM
SCALE: N.T.S.

PIPE SPAN (INCHES)	AXLE LOADS (KIP)			
	18-30	30-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

REINFORCING TABLE

Ø CMP RISER	A	B	REINFORCING	BEARING PRESSURE (PSF)
24"	Ø 4"	20"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
30"	Ø 4"	32"	#5 @ 10" OCEW #5 @ 7" OCEW	2,280 1,670
36"	Ø 6"	38"	#5 @ 7" OCEW #5 @ 7" OCEW	2,990 1,500
42"	Ø 6"	44"	#5 @ 7" OCEW #5 @ 7" OCEW	1,490 1,370
48"	Ø 6"	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270

SECTION VIEW
ACCESS CASTING NOT SUPPLIED BY CONTECH

ROUND OPTION PLAN VIEW

SQUARE OPTION PLAN VIEW

MANHOLE CAP DETAIL
SCALE: N.T.S.

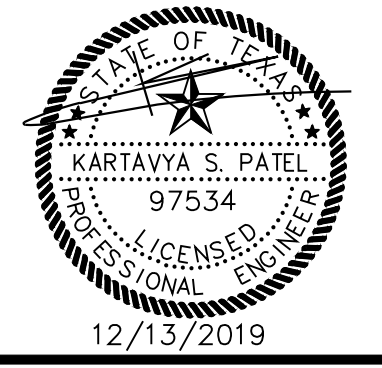
NOTE: 1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND ACI 308. 2. DESIGN LOAD HS25. 3. EARTH COVER = 1' MAX. 4. CONCRETE STRENGTH = 4,000 psi. 5. REINFORCING STEEL = ASTM A615, GRADE 60. 6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED. HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.

PROJECT NO.	583953	DATE	2/23/2018
DRAWN	LMO	CHECKED	PDW
DATE	01/11/18	DATE	01/11/18
DESCRIPTION	PROPOSAL	DESCRIPTION	PROPOSAL
BY	P3	BY	3

AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/13/2019	AS-BUILT RECORD DRAWING	KP



RECORD DRAWING

CASE # SP2017-023

DETENTION DETAILS

OFFICE BUILDING
1306 SUMMER LEE DRIVE
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

T: 214.609.9271 F: 469.359.6709 | E: kpatel@triangle-engr.com
W: triangle-engr.com | O: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013

Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	07/04/17	SEE SCALE BAR	018-17	6.4

TX PE FIRM #11525