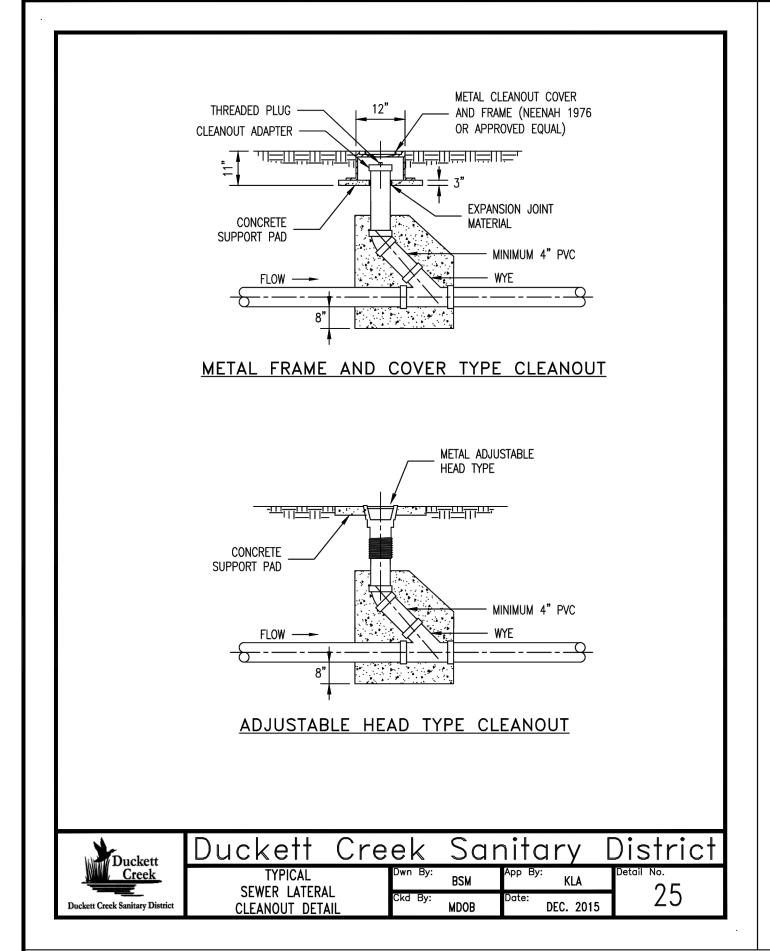
2024-08-13, INITIAL SUBMITTAL CITY PH.2 2024-11-08, REVISED PER CITY COMMENT 2024-01-03, REVISED PER CITY COMMENTS 4 2024-02-04, REVISED PER CITY COMMENT



— SEE DETAIL A

PIPE SUPPORT

@2'-0" MAX ——

W/ANCHOR

PVC INSIDE

DROP TO

SECTION A-A

MATCH LATERAL

APPROVED PATENTED

PROPOSED SANITARY

TO TAKE PLACE

SECTIONS

ABOVE OR BELOW

JOINTS IN MANHOLE

COMPACTED

BACKFILL

EXISTING PRECAST

SECTION

90° ELBOW -

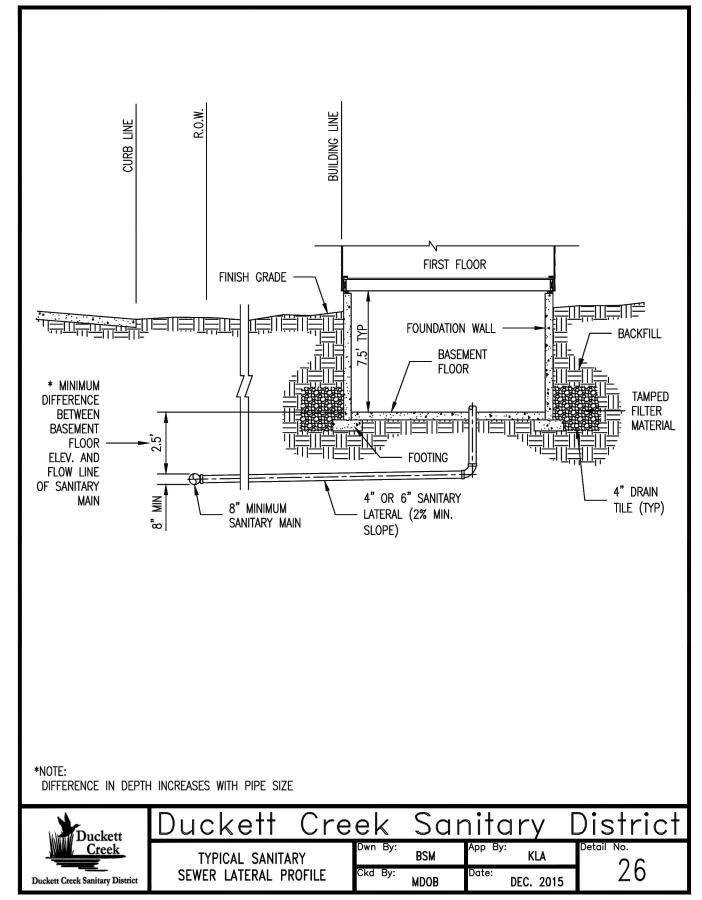
FILL GROUT AROUND PIPE TO PROVIDE INVERT

CONCRETE MANHOLE

LATERAL. CONNECTION

COMPRESSION TYPE ---

JOINT



- CUT PVC DROP PIPE TO

PROPOSED SANITARY

LATERAL

FIT LATERAL

→ FLOW

TOP VIEW

Duckett Creek Sanitary District

MSM

JUNE 2015

DETAIL "A" MODIFIED

MODIFIED DROP PIPE

(FOR STEEP INFLUENT GRADES)

INSIDE DROP GRAVITY LATERAL

CONNECTION DETAIL

GROUT TO SEAL AROUND PIPE -

FLARED LEG BRACKET (DO21 OR EQUAL)

Duckett Creek

— ATTACHED WITH 37 DIA. x 3" STAINLESS — — VIII—

STAINLESS STEEL BANDS. MINIMUM

2 REQ'D. (MAX. 5 FOOT SPACING)

STEEL BOLT/ANCHOR

DETAIL "A"

STANDARD DROP PIPE

1. IF EXCAVATED SPACE OUTSIDE OF MANHOLE WALL

EXCEEDS 1 FOOT, PROVIDE 6 INCHES OF CLASS "A"

CONCRETE ENCASEMENT ON INCOMING LINE FROM WALL OF

EARTH WITH A MINIMUM OF 4-#4 REBARS FOR LENGTH OF

MANHOLE TO A MINIMUM OF 2 FEET INTO UNDISTURBED

ENCASEMENT OR INSTALL ON LENGTH OF D.I.P. FROM

2. STAINLESS STEEL STRAPS SHALL BE ₹"X2" STAINLESS

LEG BRACKET (DO21 OR EQUAL) ATTACHED WITH 3"ØX3"

STAINLESS STEEL BOLT/ANCHOR OR APPROVED EQUAL.

4. ALL SEWER CONNECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR DUCKETT CREEK SANITARY

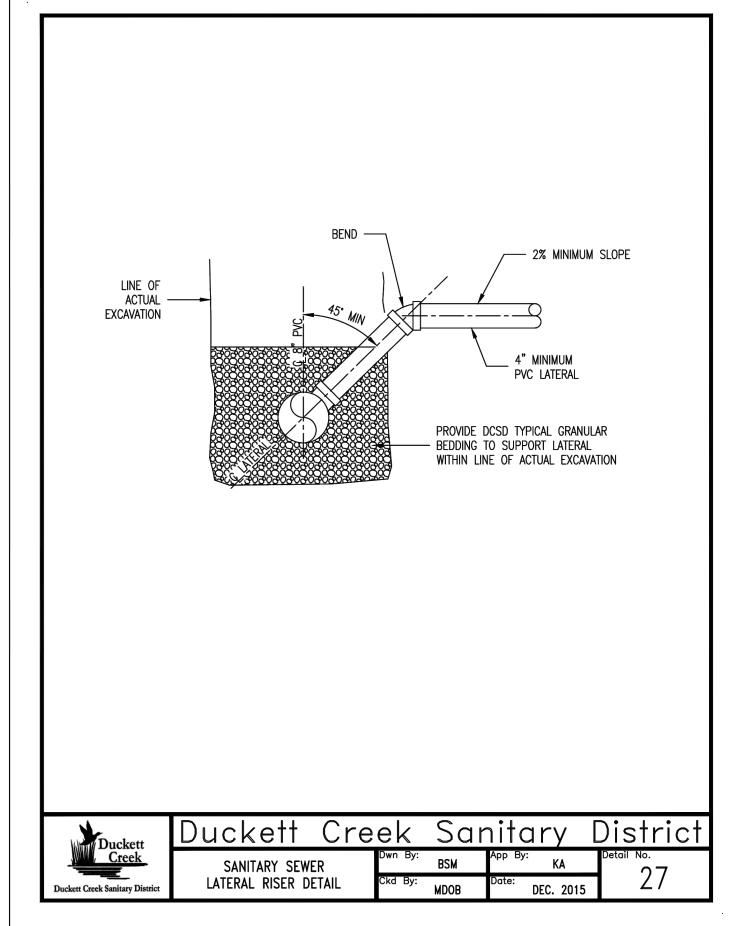
5. LONG INSIDE DROPS WILL REQUIRE STAINLESS STEEL

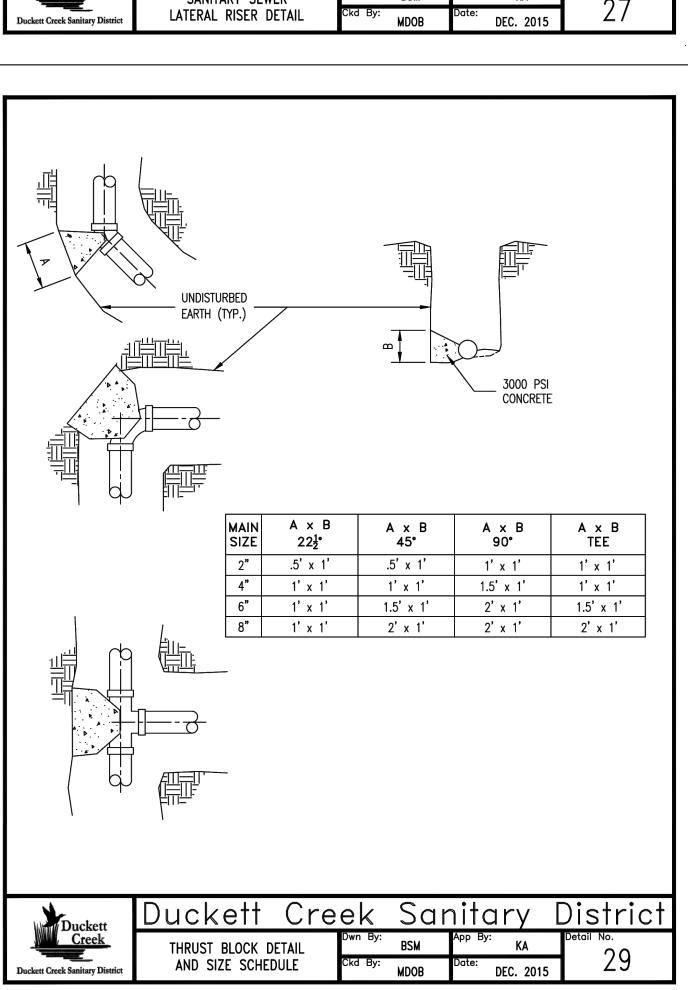
BANDS TO BE 2'-0" MAX BETWEEN BANDS.

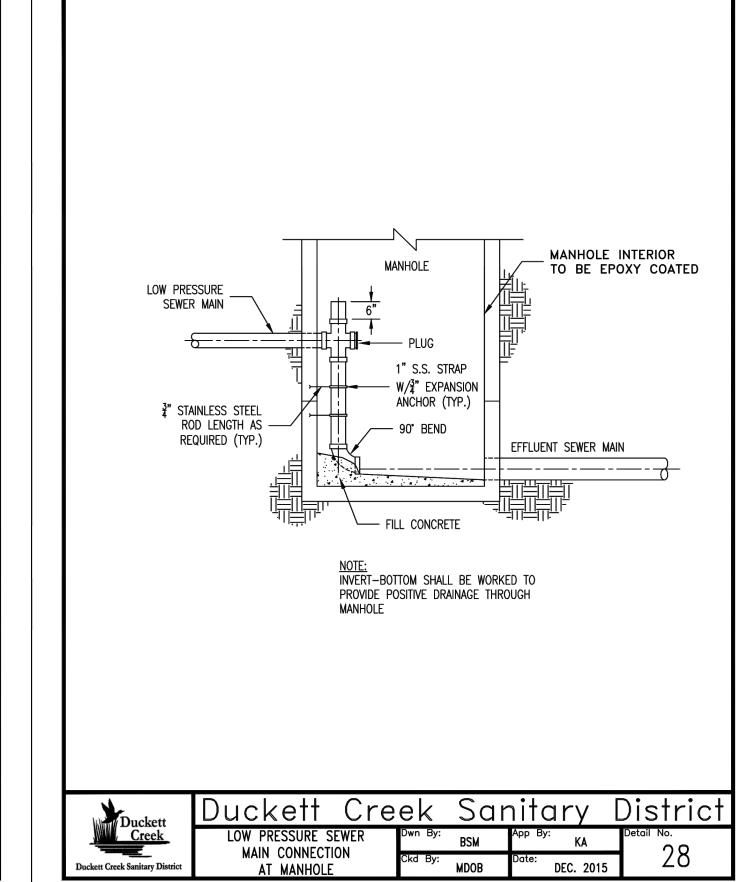
3. STAINLESS STEEL STRAP CONNECTORS SHALL BE FLARED

MANHOLE INTO UNDISTURBED EARTH.

- PROPOSED SANITARY LATERAL









1. Center the pipe, cable or conduit in wall

to support the weight of the pipe.

ends of belt around the pipe.

socket allen head or off-set wrench ONL more than 4 turns at a time. Continue in a clockwise manner until links have been conformly compressed. (Approx. 2 or 3 start at 12 o'clock. Do not tighten any bo

opening or casing. Make sure the pipe will be adequately supported on both ends. LINK-SEAL® modular seals are not intended

Loosen rear pressure plate with nut just enough so links move freely. Connect both

5a.LS-325 through LS-650 Using a hand socket or off-set wrench ONLY, start at 12 o'clock. Do not tighten any bolt more than 4 turn at a time. Continue in a clockwise mani until links have been uniformly compre-(Approx. 2 or 3 rotations).

5. Make 2 or 3 more passes at 4 turr 3. Check to be sure all bolt heads are facing the installer. Extra slack or sag is normal. D <u>not</u> remove links if extra slack exists. NOTE: On smaller diameter pipe, links may need to

4. Slide belt assembly into annular space. For larger size belts, start inserting LINK-SEAL® modular seal assembly at the 6 o'clock position and work both sides up toward the 12 o'clock position in the annular space.

per bolt MAXIMUM, tightening all bo clockwise until all sealing elements "bulge" around all pressure plates. On type 31 stainless steel bolts, hand tighten ONI without power tool.

7. If the seal doesn't appear to be correct using the instructions provided, call GPT at 1-800-423-2410.



GPT

Installation Notes: The LINK-SEAL* modular seal bolt heads are usually recessed below the wall opening or the edge of casing pipe and therefore a socket or offset wrench must be used.

LINK-SEAL® Modular Seal - Do's

- Make sure pipe is centered. 2. Install the belt with the pressure plates evenly spaced.
- 3. Install the exact number of links indicated in sizing charts. 4. Check to make sure pipe is supported properly during backfill
- 5. Make sure seal assembly and pipe surfaces are free from
- 6. For tight fits, use non-polluting liquid detergent to assist

be stretched.



If the seal doesn't appear to be correct using the techniques provided, Call GPT at 1-800-423-2410. ALWAYS WEAR PPE WHEN USING LINK-SEAL® MODULAR SEALS

LINK-SEAL' Modular Seal - Don'ts

- 1. Don't Install the belt with the pressure plates aimed in irregular directions. (Staggered)
- 2. Don't Install LINK-SEAL® modular seals where weld-beads or other irregular surfaces exist without consideration of the
- operations. **NOTE**: LINK-SEAL® modular seals are not intended to

 3. Don't torque each bolt completely before moving on to the next. sealing requirements.
 - 4. Don't use high speed power tools (450 rpm or more)
 - 5. Do not use power tools on LINK-SEAL* modular seal 316 stainless
 - 6. Don't use grease installing LINK-SEAL* modular seals.

Hand Tools: Review provided chart below. (Tools not provided.) Tools can be purchased from hardware store, auto parts store, or home

LINK-SEAL" Model	Tool Size/ Type Req.	Bolt Head Type
LS-200, LS-275	4mm, Allen	
LS-300, LS-315	6mm, Allen	1
LS-325, LS-340, LS-360	13mm, Hex	
LS-400, LS-410, LS-425, LS-475	17mm, Hex	
LS-500, LS-525, LS-575	19mm, Hex	1
LS-615	30mm, Hex	1
LS-650	19mm, Hex	

Date: <u>02-04-2025</u> Michael G. Boerding License No. MO E-28643

Professional Engineer

S SD

P+Z No. 21-004994 **City No.** 21-011444 02-04-2025 Date:

Page No.

Job No. 20-09-327