PRIME CONSTRUCTION COMPANY, INC.

WWW.PCCIUSA.COM 20907 Martin Lane, Pflugerville, TX 78660 512.244.7799

CHANGE ESTIMATE NO. 002 Rev. 3

Project: **Pflugerville Animal Welfare Services** **Date:** **02/06/2018**

SCOPE: Subgrade Concrete Demo / Backfill
Furnish and install all materials, tools, and labor required for the following scopes of work:

1.	3 x 5 Rip Rap	230 Tons	$5,244
2.	Flowable Fill	182 Cyds	$28,392
3.	Crushed Limestone Base	1500 Tons	$28,800
4.	963 Trackloader	100 Hrs	$18,000
5.	Excavator	100 Hrs	$30,000
6.	Water Truck	2 Wks	$3,600
7.	Roller	2 Wks	$3,600
8.	Labor	100 Hrs	$7,800
9.	Spoils/Trash/Concrete Debris Removal	1000 Cyds	$24,000

Subcontractor	$149,436
PCCI O/H	$ 11,944
PCCI Profit	$ 11,944

Change Estimate Amount: $ 173,324
Additional Time (work days): 45
(Based on 02/13/2018 Notice To Proceed)

Breakdown
Balance of Contingency $30,000
PCCI OHP applied to balance of $119,436
Funds to be added to contract $143,324

GEOTECHNICAL ENGINEERING
DRILLING & SAMPLING
FOUNDATION DESIGN

HOLT
ENGINEERING, INC.

CONSTRUCTION INSPECTION
LABORATORY TESTING
MATERIALS TESTING

6 February 2018

City of Pflugerville
P. O. Box 589
Pflugerville, TX 78660

Attn: Mr. Trey Fletcher

Re: Pflugerville Animal Welfare Services Intake Kennel
1600 Waterbrook Drive
Pflugerville, Texas

File No.: 12-47415

Dear Mr. Fletcher:

We were notified that a portion of the one of the old waste water treatment clarifier tanks was encountered at the northeast corner of the building during canopy pad construction in early January. We attended a site meeting on 9 February 2018 to observe the site conditions. The tank consisted of a 25 foot dimeter concrete tank approximately 12' 9" below the pad subgrade and edge of the tank approximately 4 feet north of the drilled pier at the northeast corner of the new building. We provided some preliminary recommendations for filling the tank in an email on 10 January 2018. After further research and overlaying the new building layout on the original treatment plant drawings it appeared a second clarifier tank is also located under the northwest corner of the building canopy. Several backhoe pits were dug to about 12 to 13 feet below the pad subgrade on 5 February 2018 and it was confirmed the concrete tank and walls are also located under the canopy. Both tanks are filled with soft clays, mixed with gravel and concrete debris. Groundwater immediately flowed into both tank excavations at about 11 feet below the pad subgrade.

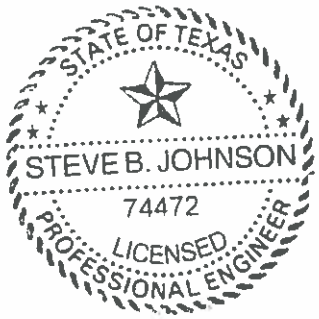
Based on field observations we recommend removing the debris in the bottom of the concrete tanks. The tank sidewalls should be removed as needed below the piers. The sides of the excavation should be sloped on about 1(H) to 1 (V) to prevent further sloughing. The water should then be pumped down to near the bottom of each, if possible. We expect a high inflow of groundwater and completely pumping all groundwater may not be possible. The tank bottom should be backfilled with about 12 inches to 18 inches of 3" x 5" diameter gravel. We expect this to be about one to two 18 yard loads of gravel in each basin. If the tanks can be sufficiently cleaned of debris and groundwater, then the gravel fill may be omitted. Each tank should then be filled with a Controlled Low Strength Fill (flowable fill with sand/cement mix) to within about 8 feet from the top of the select fill pad. The basin side walls may be left intact unless it interferes with pier placement or further excavation. We further recommend a trench approximately 6 feet wide be excavated between the two tanks along the center of the north canopy line (see attached plan) and filled with a minimum of 3 feet of flowable fill up to within 8 feet of the top of the building pad. The flowable fill should meet the requirements in Item 402S, City of Austin Standard Specifications and should have a compressive strength of 300 psi at 28 days. The flowable fill should be allowed to set for at least 48 hours before backfilling with the select fill for the building pad. The select fill for the building pad (as per plans) should then be placed in 8 inch lifts over the flowable fill section. We recommend all 6 piers on Grid Line "A" supporting the canopy be drilled to a

depth of 8 feet and bear on the flowable fill. We recommend the allowable bearing value for the piers to be the same as we provided in the original geotechnical report (3,500 PSF) so no change in pier size is expected. Please have the structural engineer review and approve. We have attached a preliminary drawing showing the approximate tank locations and the trench between the tanks to be filled with flowable fill. The attached plan is subject to the Architect and Structural Engineer approval.

Backfilling of the areas outside the building pad should consist of suitable on-site soils and placed in 8 inch thick lifts and rolled with a roller until firm support of equipment and trucks is achieved. Holt Engineering should observe the placement of the 3 by 5 gravel and flowable fill and take densities on select fill lifts.

If there are any questions please do not hesitate to call.

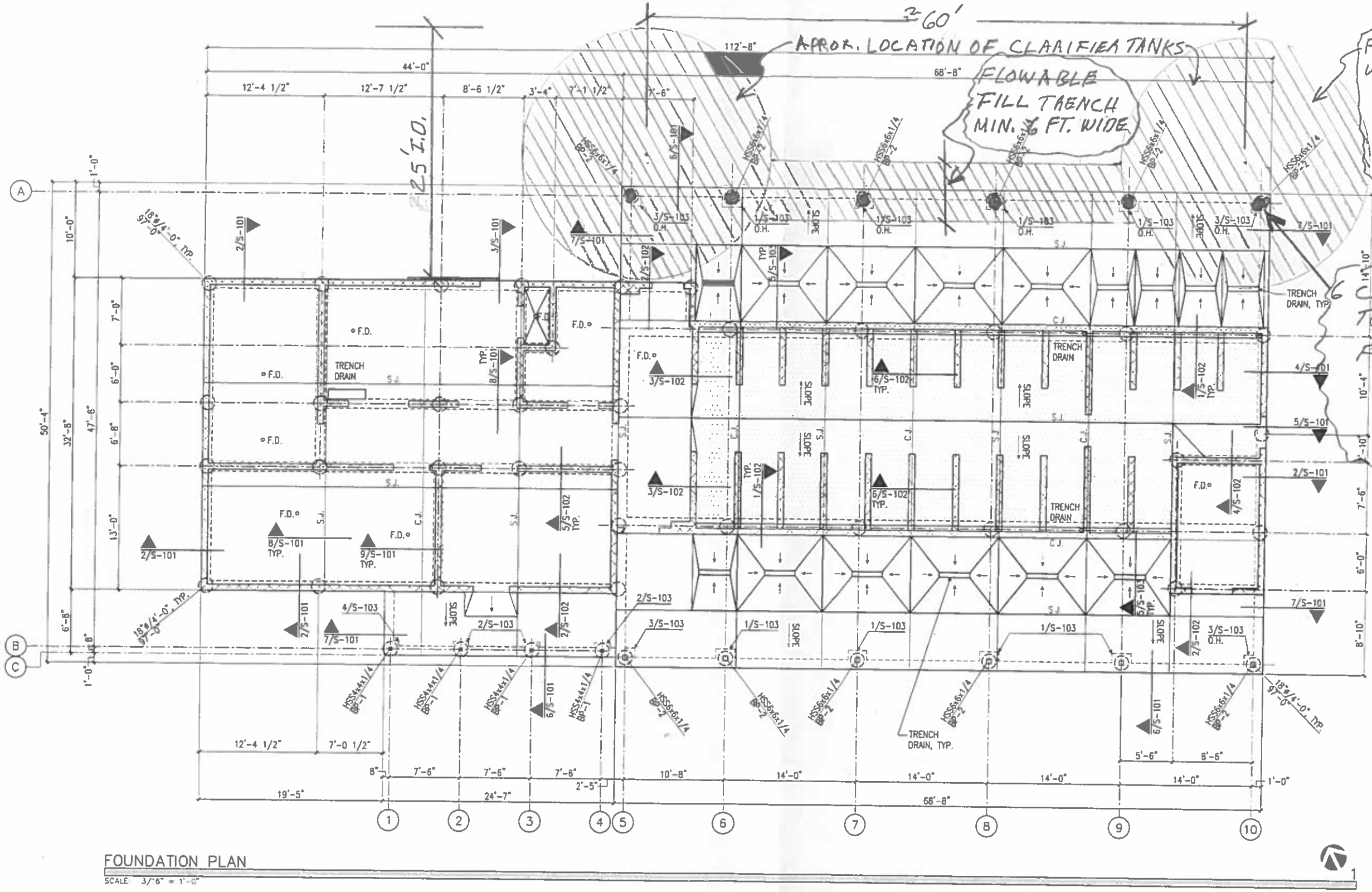
Sincerely,



Steve B. Johnson, P. E.
Geotechnical Division Manager

Holt Engineering, Inc.
TBPE Firm Registration No. F-430

Enc: Preliminary Remediation Plan



FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

PLAN NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.
2. REFER TO SHEET S-001 FOR GENERAL NOTES.
3. REFER TO SHEET S-101 AND S-102 FOR DETAILS NOT NOTED ON PLAN.
4. SLAB ON GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH #4 @ 12" O.C. EACH WAY CENTERED IN SLAB.
   [ ] INDICATES AREA TO BE 8" THICK CONCRETE REINFORCED WITH #4 @ 12" O.C. EACH WAY TOP AND BOTTOM.
5. FINISH FLOOR = DATUM ELEVATION 100'-0" FOR ACTUAL ELEVATION, REFER TO CIVIL DRAWINGS.
6. PIERS ARE CENTERED ON GRADE BEAM INTERSECTIONS UNLESS DIMENSIONED OTHERWISE ON PLAN.
7. PIERS ARE NOTED ON PLAN THUS:
   18"ø/4'-0" ← PIER SHAFT DIA. /PENETRATION DEPTH
   97'-0" ← TOP OF PIER ELEVATION
8. COLUMNS ARE NOTED ON PLAN THUS:
   HSS6x6x1/4 ← STEEL COLUMN SIZE
   BP-1 ← BASE PLATE
9. PROVIDE (2) #4 x 3'-0" DOWELS CENTERED IN SLAB AT ALL INTERIOR CORNERS WITHOUT A CONSTRUCTION OR SAWN JOINT.
10. REFER TO ARCHITECTURAL FOR LOCATION AND EXTENT OF ALL LEDGES, POCKETS OR DEPRESSIONS.
11. CONTRACTOR VERIFY FLOOR FINISHES FOR INTERIOR AND EXTERIOR CONDITIONS BEFORE SETTING TOP OF SLAB FOR EXTERIOR CONDITIONS.
12. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR DRAIN ELEVATIONS.
13. ALL TRENCH DRAINS SHALL SLOPE 1/8"/FT MAX.

PRELIMINARY REMEDIATION PER HOLT ENGINEERING 2-6-2018 (NOT FOR CONSTRUCTION)

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PFLUGERVILLE
ANIMAL WELFARE SERVICES
INTAKE KENNEL
PFLUGERVILLE, TEXAS

REVISIONS:

PROJECT NO. 16-02-03
DATE: 01-10-17
FILE NAME:
DRAWN BY: B.B.
SCALE: AS NOTED

SHEET TITLE: FOUNDATION PLAN

FWN&A
Frank W. Neal & Assoc., Inc.
1015 W. Broadway Ave
Fort Worth, TX. 76104
817.332.1944

S-201

TYP. PLANT ROAD SECTION

AS BUILT

C48-1284

Google Earth

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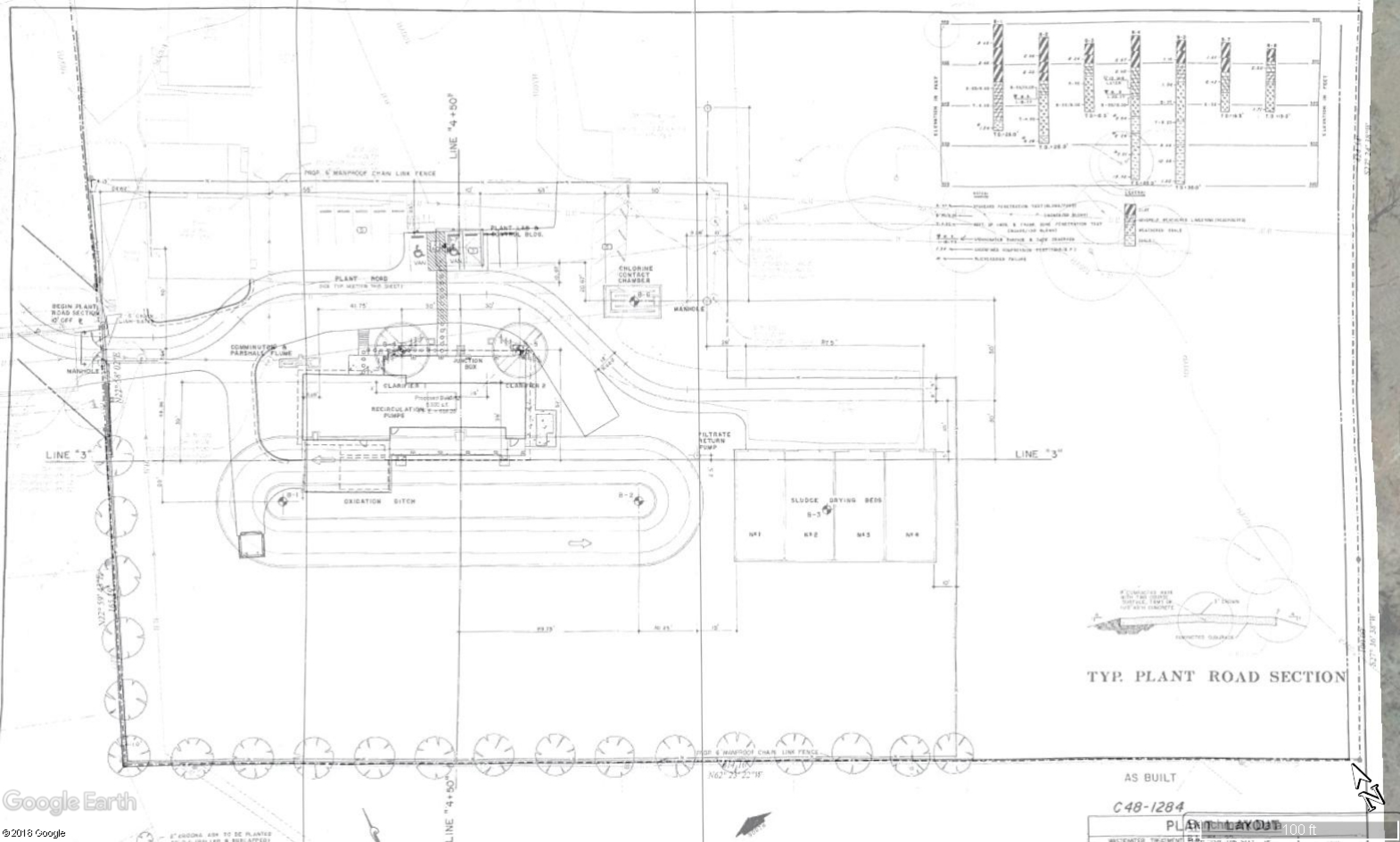
PROP. 6' MANPROOF CHAIN LINK FENCE
LINE "4+50"
PLANT LAB & CONTROL BLDG.
VAN
PLANT ROAD
CHLORINE CONTACT CHAMBER
MANHOLE
BEGIN PLANT ROAD SECTION
COMMINUTOR & PARSHALL FLUME
JUNCTION BOX
CLARIFIER 1
CLARIFIER 2
RECIRCULATION PUMPS
FILTRATE RETURN PUMP
LINE "3"
OXIDATION DITCH
SLUDGE DRYING BEDS
N°1
N°2
N°3
N°4
TYP. PLANT ROAD SECTION
AS BUILT
C48-1284
PLANT LAYOUT
100 ft
Google Earth
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