

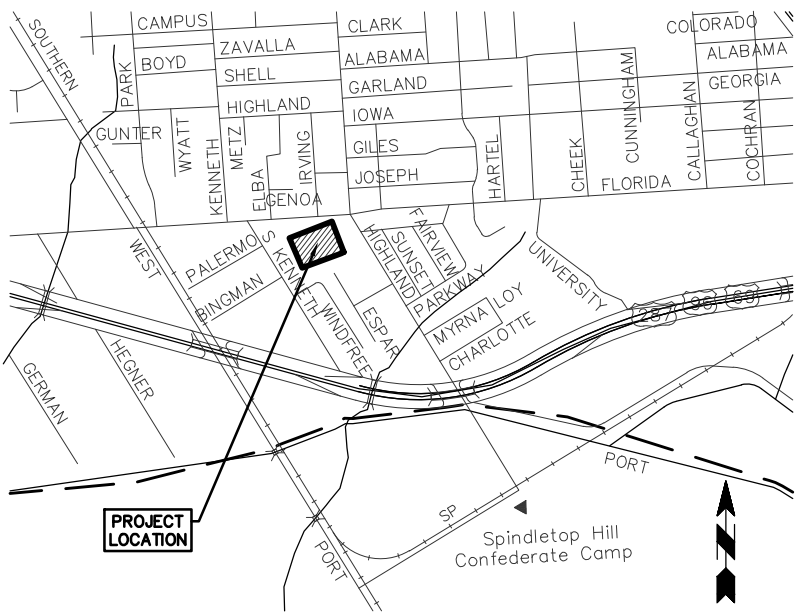
Bingman Head Start

Drainage Improvement

5265 Kenneth Avenue
Beaumont, Texas 77705
Jefferson County

INDEX:

C0.00	COVER SHEET
SV1.10	EXISTING TOPO
SV1.20	EXISTING TOPO
C1.10	DRAINAGE AREA PLAN
C1.20	DRAINAGE AREA PLAN
C1.30	DRAINAGE CALCULATIONS
C2.10	GRADING PLAN
C2.20	GRADING PLAN
C3.10	EROSION CONTROL
C3.20	EROSION CONTROL
C4.10	GENERAL NOTES & DETAILS



LOCATION MAP
SCALE 1:2000

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(409)832-7238 FAX (409)832-7303

Tx Board of Prof Engineers Firm No. F-01160 Tx Board of Prof Land Surveyors Firm No. 100186

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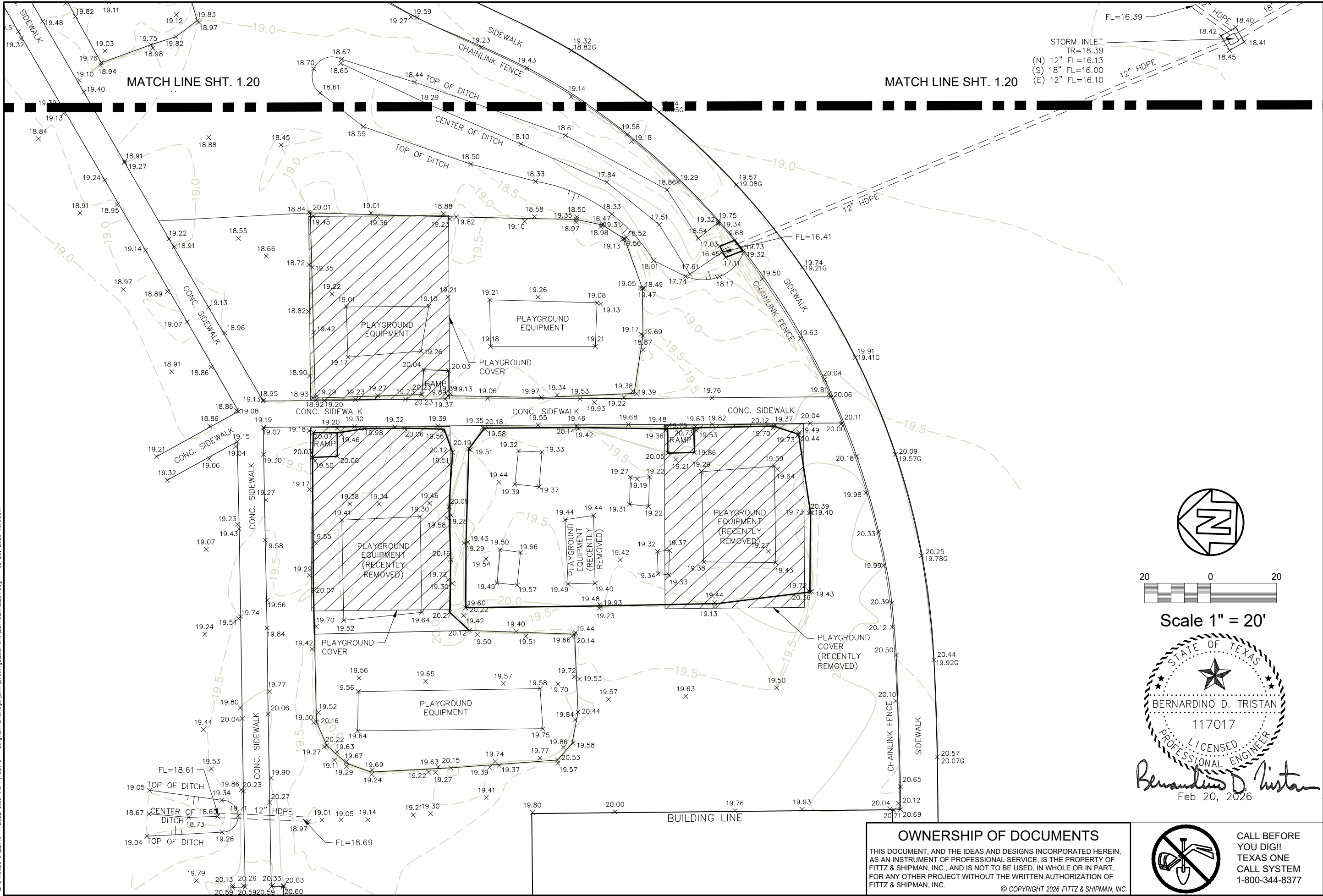


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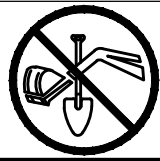


Bernardino D. Tristan
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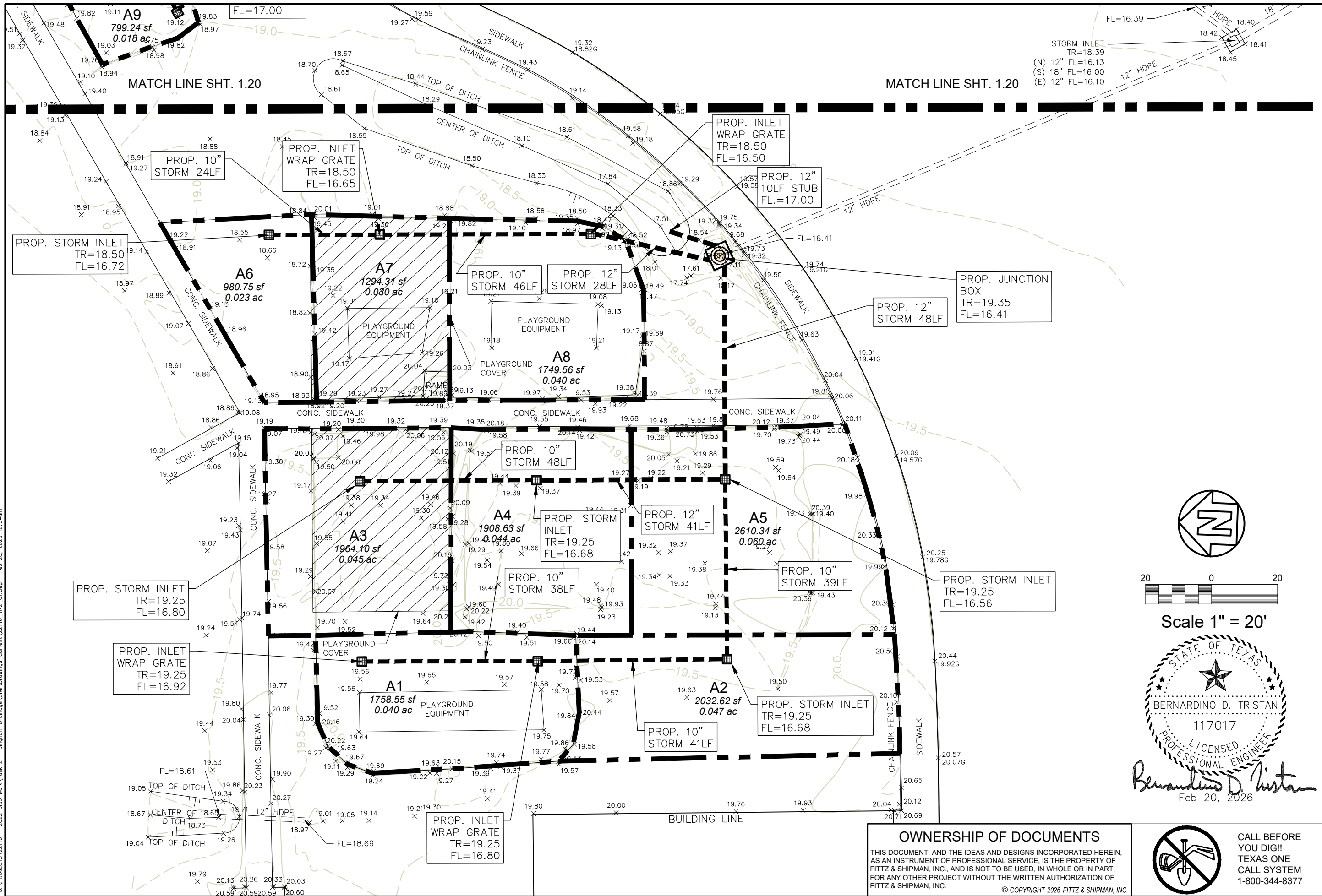
BINGMAN HEAD START
5265 KENNETH AVENUE
BEAUMONT, TEXAS

FS PROJECT #	22116.000
DATE:	Feb 20, 2026
SCALE:	1" = 20'
DRAWN BY:	C.Z.
CHECK BY:	B.D.T.
FS DRAWING NAME:	22116_TK2_01
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1	FINAL REVIEW	12-03-2025
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BINGMAN HEAD START
5265 KENNETH AVENUE
BEAUMONT, TEXAS

FS PROJECT #
22116.000

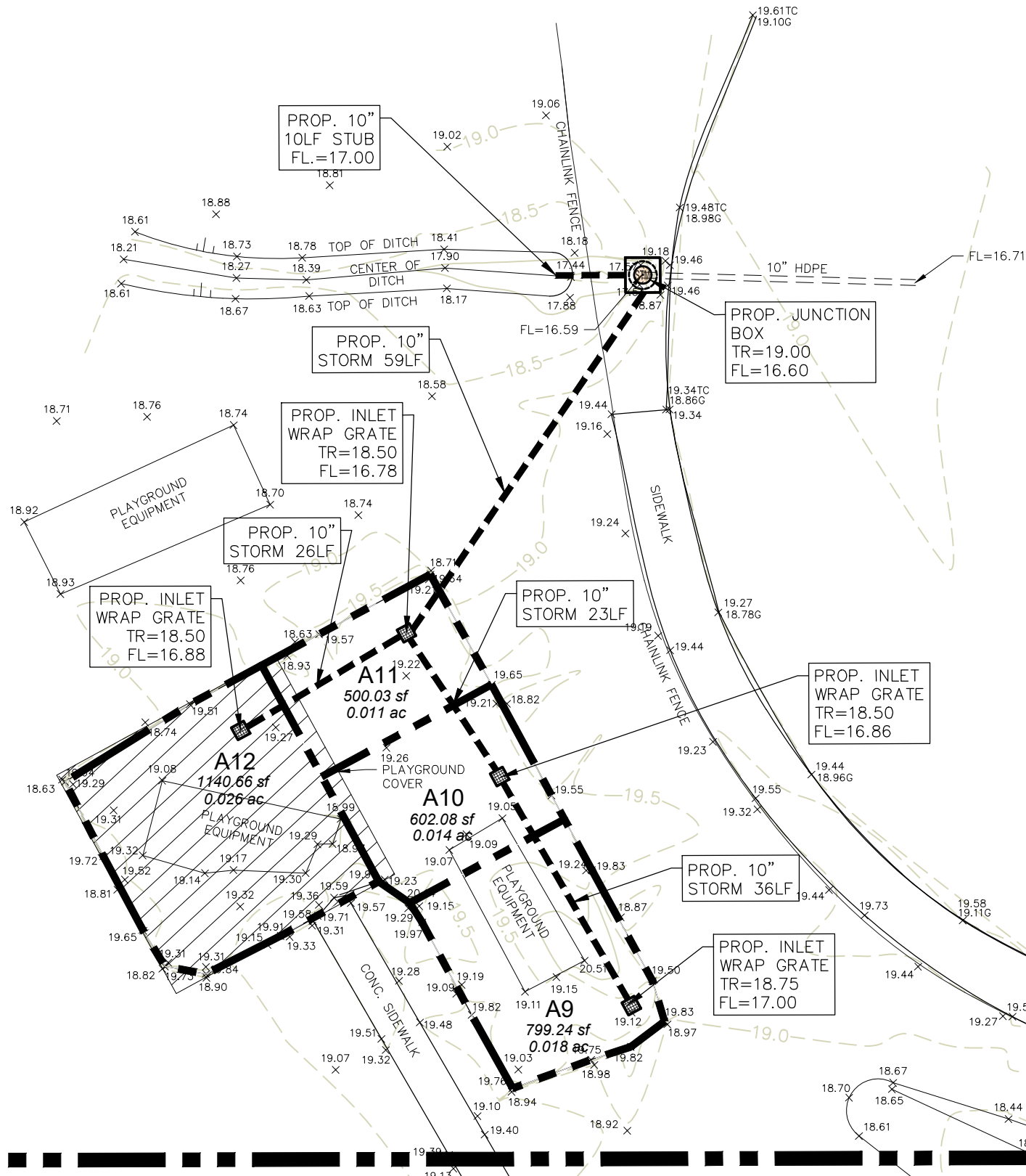
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DRAINAGE
AREA PLAN

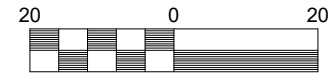
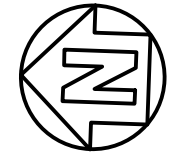
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MATCH LINE SHT. 1.10

MATCH LINE SHT. 1.10



Scale 1" = 20'



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22116.000
DATE: Feb 20, 2026
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DRAWN BY: C.Z.
CHECK BY: B.D.T.
FS DRAWING NAME:
22116_TK2_01

DRAINAGE
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Drainage Area Computations

Job Name:	Bingman Head	Start- Drainage Improvement	Jefferson Co.			Des. Freq.	2	5	10	25	50	100						
Job No.:	22116.0000	02/20/26	$I=b/(t+d)^e$ $T_c=10A^{0.1761+15}$			Atlas 14 Zone 1 2019	b= 67.1216 d= 13.2828 e= 0.8004	b= 80.22 d= 13.47 e= 0.772	b= 88.32 d= 13.43 e= 0.752	b= 97.22 d= 13.33 e= 0.727	b= 101.38 d= 13.05 e= 0.707	b= 105.57 d= 12.99 e= 0.687						
DRAINAGE AREA COMPUTATIONS																		
DRAINAGE AREA NO.	TOTAL AREA (Ac.)	Playground C 0.35	Building C 0.97	Grass C 0.25	Combined CA	Time of Concent (min.)	i2 (in/hr.)	Q2 (c.f.s.)	i5 (in/hr.)	Q5 (c.f.s.)	i10 (in/hr.)	Q10 (c.f.s.)	i25 (in/hr.)	Q25 (c.f.s.)	i50 (in/hr.)	Q50 (c.f.s.)	i100 (in/hr.)	Q100 (c.f.s.)
Post-Construction Conditions																		
A1	0.040	0.040	0.000	0.000	0.014	20.7	3.99	0.06	5.26	0.07	6.21	0.09	7.48	0.11	8.43	0.12	9.42	0.13
A2	0.047	0.000	0.000	0.047	0.012	20.8	3.98	0.05	5.24	0.06	6.19	0.07	7.46	0.09	8.41	0.10	9.39	0.11
A3	0.045	0.000	0.032	0.014	0.034	20.8	3.98	0.14	5.24	0.18	6.20	0.21	7.47	0.25	8.41	0.29	9.40	0.32
A4	0.044	0.000	0.000	0.044	0.011	20.8	3.99	0.04	5.25	0.06	6.20	0.07	7.47	0.08	8.42	0.09	9.40	0.10
A5	0.060	0.000	0.000	0.060	0.015	21.1	3.96	0.06	5.21	0.08	6.16	0.09	7.42	0.11	8.36	0.13	9.34	0.14
A6	0.023	0.000	0.000	0.023	0.006	20.1	4.05	0.02	5.32	0.03	6.29	0.04	7.57	0.04	8.53	0.05	9.53	0.05
A7	0.030	0.000	0.030	0.000	0.029	20.4	4.02	0.12	5.29	0.15	6.25	0.18	7.53	0.22	8.48	0.24	9.48	0.27
A8	0.040	0.040	0.000	0.000	0.014	20.7	3.99	0.06	5.26	0.07	6.21	0.09	7.48	0.11	8.43	0.12	9.42	0.13
A9	0.018	0.018	0.000	0.000	0.006	19.9	4.06	0.03	5.35	0.03	6.32	0.04	7.60	0.05	8.56	0.05	9.56	0.06
A10	0.014	0.012	0.001	0.000	0.006	19.7	4.09	0.02	5.38	0.03	6.35	0.04	7.64	0.04	8.61	0.05	9.61	0.05
A11	0.011	0.010	0.001	0.000	0.005	19.6	4.10	0.02	5.40	0.03	6.37	0.03	7.67	0.04	8.64	0.04	9.64	0.05
A12	0.026	0.000	0.026	0.000	0.025	20.3	4.03	0.10	5.31	0.13	6.27	0.16	7.55	0.19	8.51	0.22	9.50	0.24
SUM	0.398				0.176			0.71		0.93		1.10		1.32		1.49		1.67

5 Yr. Storm

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BINGMAN HEAD START
5265 KENNETH AVENUE
BEAUMONT, TEXAS

FS PROJECT #
22116.000

DATE: Feb 20, 2026

SCALE: 1" = 20'

DRAWN BY: C.Z.

CHECK BY: B.D.T.

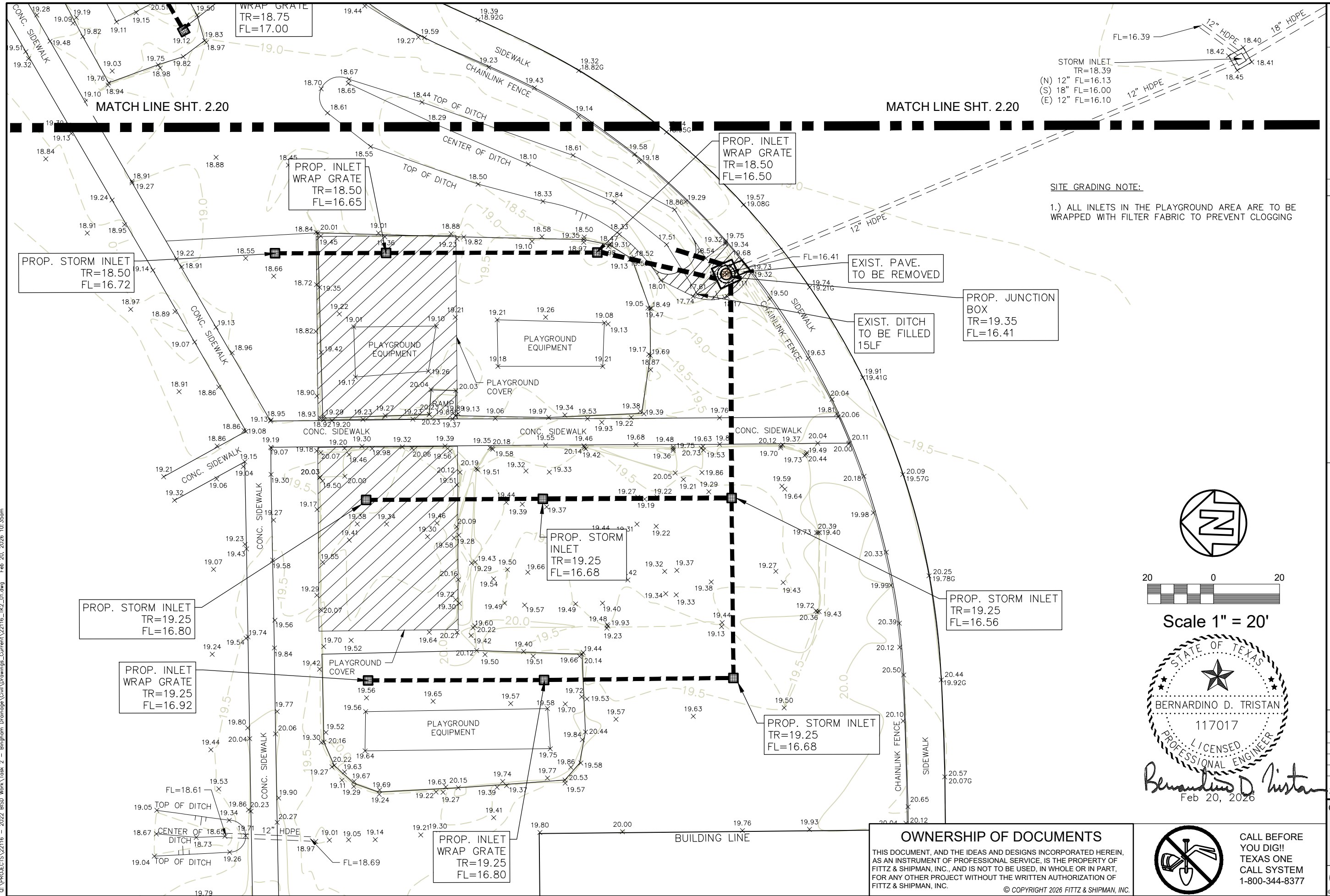
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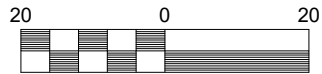
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SITE GRADING NOTE:

1.) ALL INLETS IN THE PLAYGROUND AREA ARE TO BE WRAPPED WITH FILTER FABRIC TO PREVENT CLOGGING



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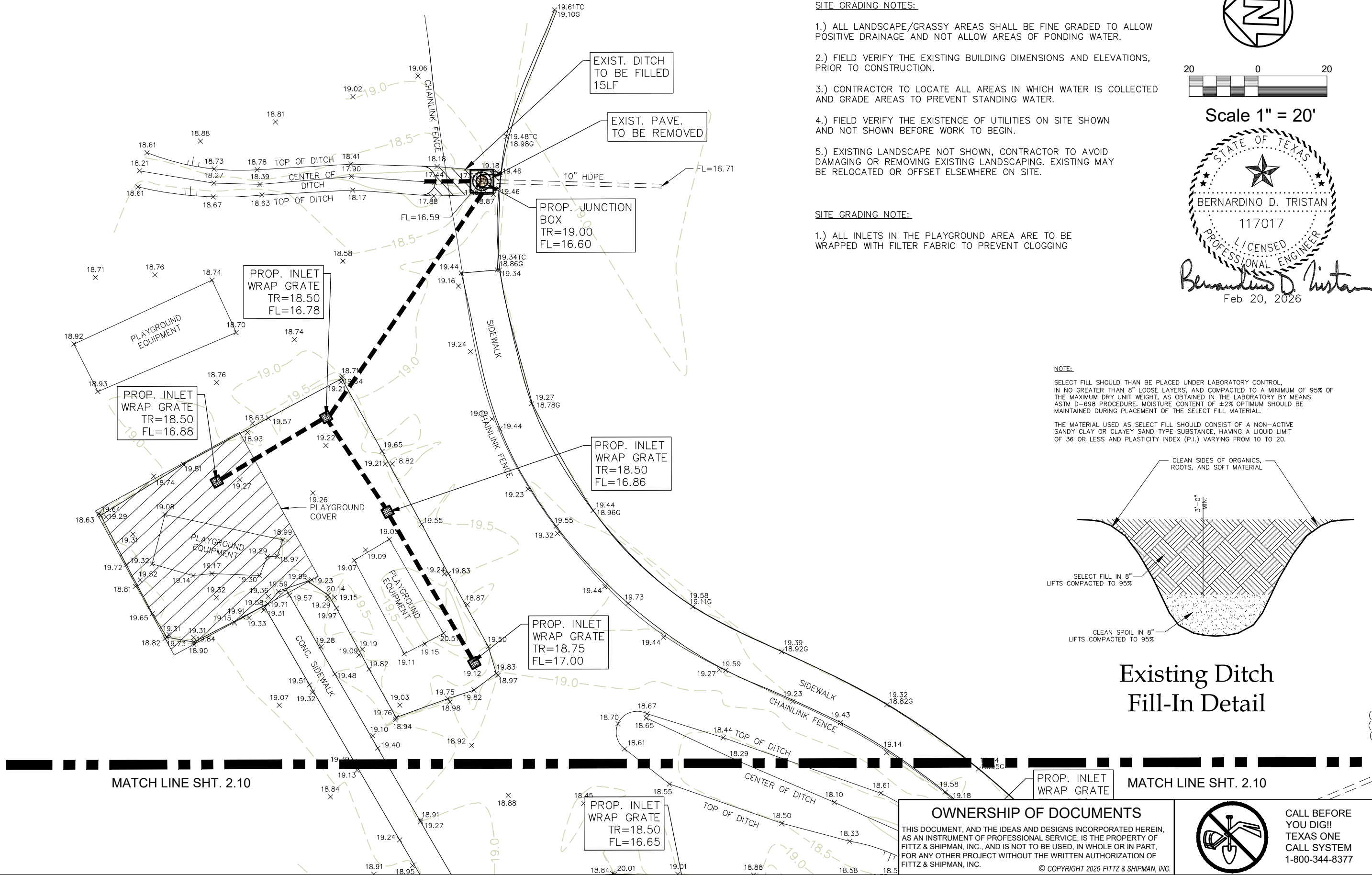
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GRADING PLAN

C2.10

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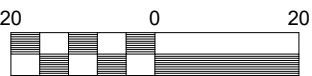


SITE GRADING NOTES:

- 1.) ALL LANDSCAPE/GRASSY AREAS SHALL BE FINE GRADED TO ALLOW POSITIVE DRAINAGE AND NOT ALLOW AREAS OF PONDING WATER.
- 2.) FIELD VERIFY THE EXISTING BUILDING DIMENSIONS AND ELEVATIONS, PRIOR TO CONSTRUCTION.
- 3.) CONTRACTOR TO LOCATE ALL AREAS IN WHICH WATER IS COLLECTED AND GRADE AREAS TO PREVENT STANDING WATER.
- 4.) FIELD VERIFY THE EXISTENCE OF UTILITIES ON SITE SHOWN AND NOT SHOWN BEFORE WORK TO BEGIN.
- 5.) EXISTING LANDSCAPE NOT SHOWN, CONTRACTOR TO AVOID DAMAGING OR REMOVING EXISTING LANDSCAPING. EXISTING MAY BE RELOCATED OR OFFSET ELSEWHERE ON SITE.

SITE GRADING NOTE:

- 1.) ALL INLETS IN THE PLAYGROUND AREA ARE TO BE WRAPPED WITH FILTER FABRIC TO PREVENT CLOGGING



Scale 1" = 20'

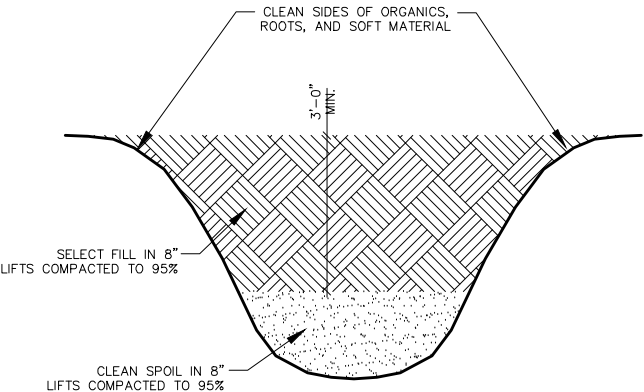


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Feb 20, 2026

NOTE:

SELECT FILL SHOULD THAN BE PLACED UNDER LABORATORY CONTROL, IN NO GREATER THAN 8" LOOSE LAYERS, AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY UNIT WEIGHT, AS OBTAINED IN THE LABORATORY BY MEANS ASTM D-698 PROCEDURE. MOISTURE CONTENT OF $\pm 2\%$ OPTIMUM SHOULD BE MAINTAINED DURING PLACEMENT OF THE SELECT FILL MATERIAL.

THE MATERIAL USED AS SELECT FILL SHOULD CONSIST OF A NON-ACTIVE SANDY CLAY OR CLAYEY SAND TYPE SUBSTANCE, HAVING A LIQUID LIMIT OF 36 OR LESS AND PLASTICITY INDEX (P.I.) VARYING FROM 10 TO 20.



**Existing Ditch
Fill-In Detail**

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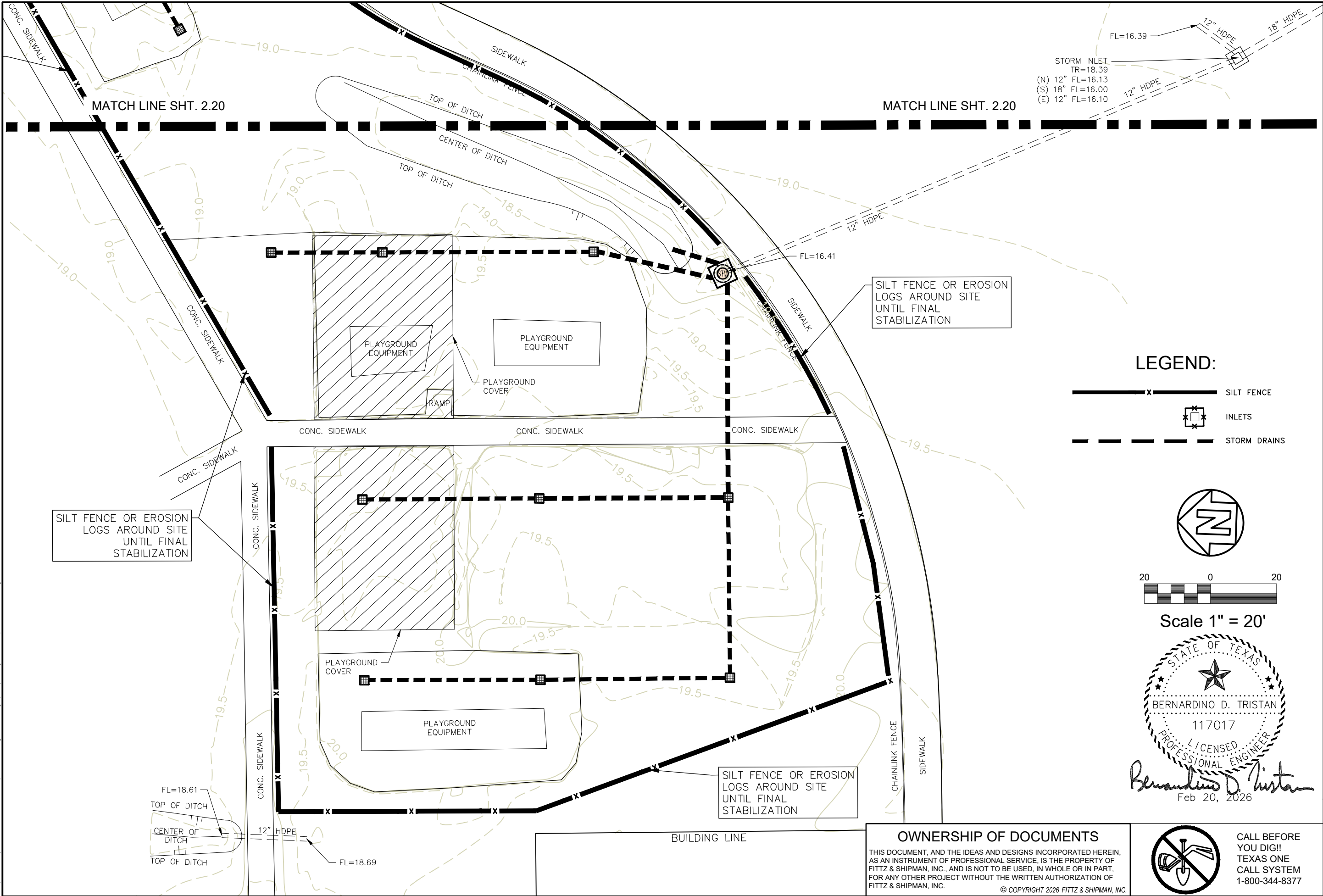
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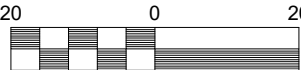
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LEGEND:

- SILT FENCE
- INLETS
- STORM DRAINS



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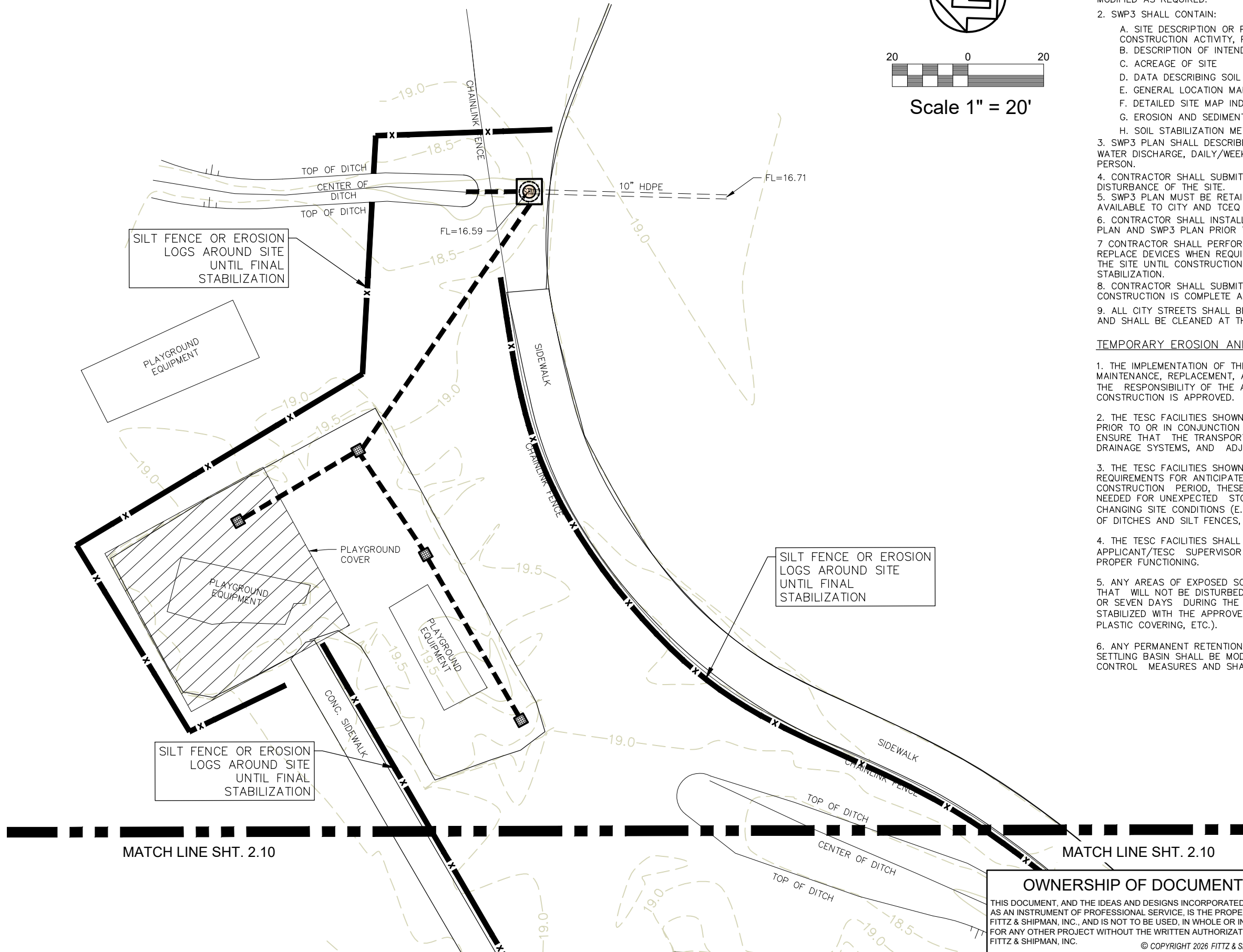
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EROSION CONTROL PLAN

C3.10

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EROSION CONTROL NOTES

1. CONTRACTOR SHALL DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES FOR THE SITE. SWP3 PLAN SHALL BE BASED ON THIS DRAWING OR MODIFIED AS REQUIRED.
2. SWP3 SHALL CONTAIN:
 - A. SITE DESCRIPTION OR PROJECT DESCRIPTION INCLUDING NATURE OF CONSTRUCTION ACTIVITY, POTENTIAL POLLUTANTS AND SOURCES
 - B. DESCRIPTION OF INTENDED PROJECT SCHEDULE
 - C. ACREAGE OF SITE
 - D. DATA DESCRIBING SOIL OR QUALITY OF DISCHARGE FROM SITE
 - E. GENERAL LOCATION MAP OF SITE
 - F. DETAILED SITE MAP INDICATING DRAINAGE PATTERNS, PROPOSED CONTROLS.
 - G. EROSION AND SEDIMENT CONTROLS SELECTED
 - H. SOIL STABILIZATION METHODS
3. SWP3 PLAN SHALL DESCRIBE PRACTICES TO REDUCE POLLUTANTS IN STORM WATER DISCHARGE, DAILY/WEEKLY SITE INSPECTIONS AND LIST RESPONSIBLE PERSON.
4. CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ PRIOR TO DISTURBANCE OF THE SITE.
5. SWP3 PLAN MUST BE RETAINED AT THE CONSTRUCTION SITE AND MADE AVAILABLE TO CITY AND TCEQ INSPECTORS.
6. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES INDICATED ON THIS PLAN AND SWP3 PLAN PRIOR TO CONSTRUCTION AT SITE.
7. CONTRACTOR SHALL PERFORM PERIODIC MAINTENANCE AND REPAIR AND/OR REPLACE DEVICES WHEN REQUIRED TO CONTAIN SEDIMENTS AND POLLUTANTS ON THE SITE UNTIL CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.
8. CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ ONCE CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.
9. ALL CITY STREETS SHALL BE KEPT FREE OF ALL CONSTRUCTION MATERIALS AND SHALL BE CLEANED AT THE END OF EACH WORK DAY.

TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC)

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
3. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
4. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
6. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY.



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Feb 20, 2026

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5265 KENNETH AVENUE
BEAUMONT, TEXAS

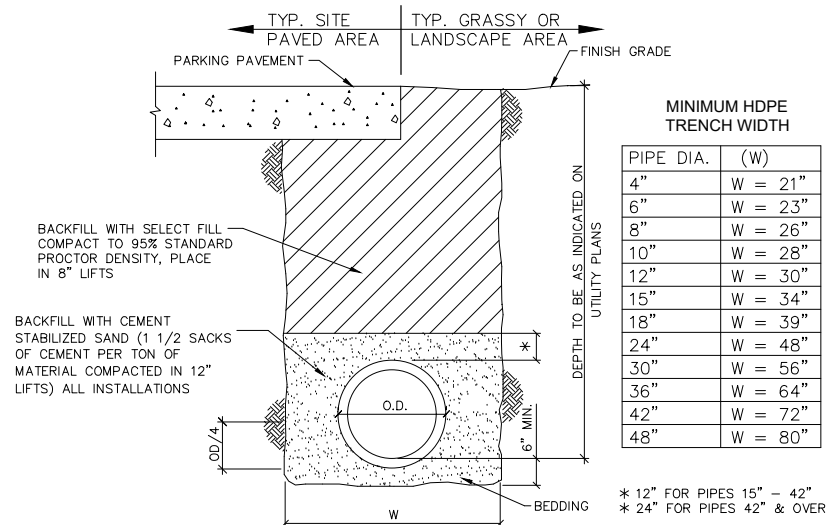
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DATE:	Feb 20, 2026
SCALE:	1" = 20'
DRAWN BY:	C.Z.
CHECK BY:	B.D.T.
FS DRAWING NAME:	22116_TK2_01

EROSION
CONTROL PLAN

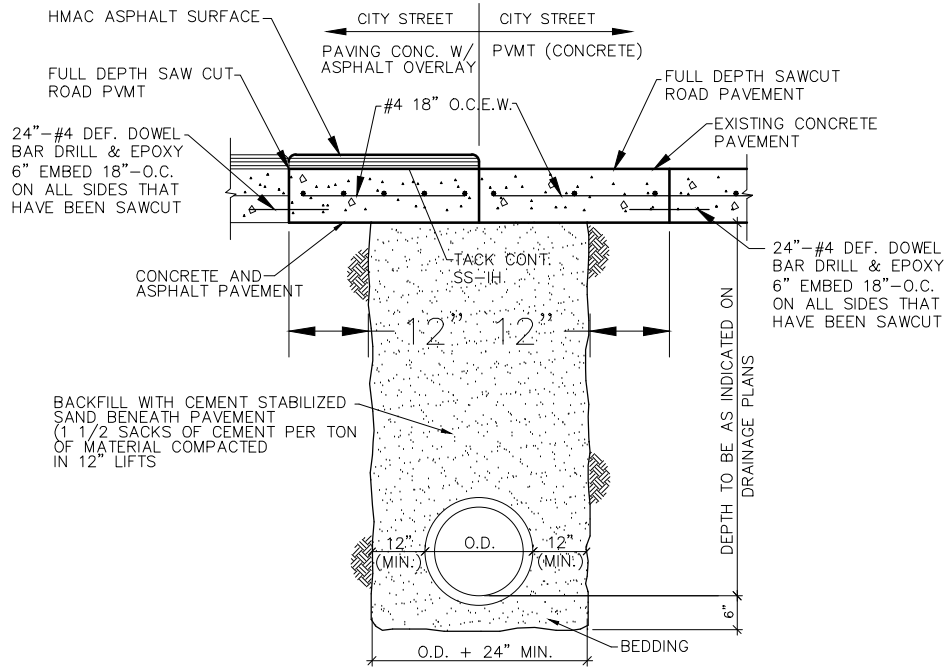
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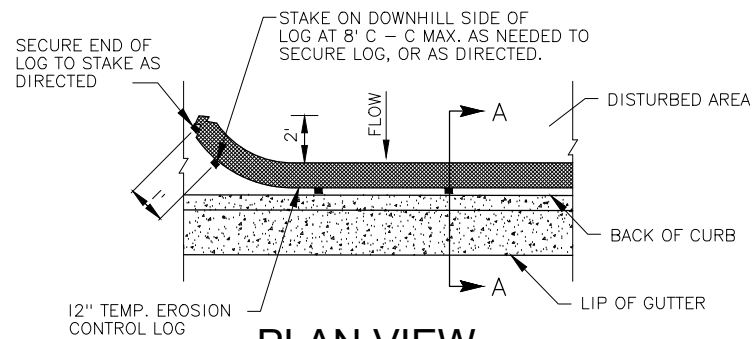
C:\PROJECTS\22116 - 2022 B.S.D. Work\Task 2 - Bingham Drainage\Civil\Drawings-Current\22116_TK2_01.dwg Feb 20, 2026 10:37am



Trench Cut for HDPE Storm Sewer Lines



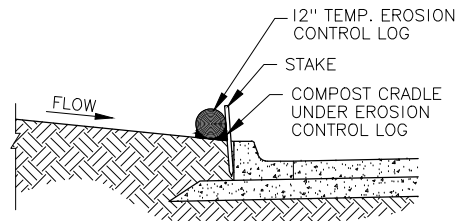
Trench Cut For Storm Sewer Lines Under Pavement/Street Pavement Repair



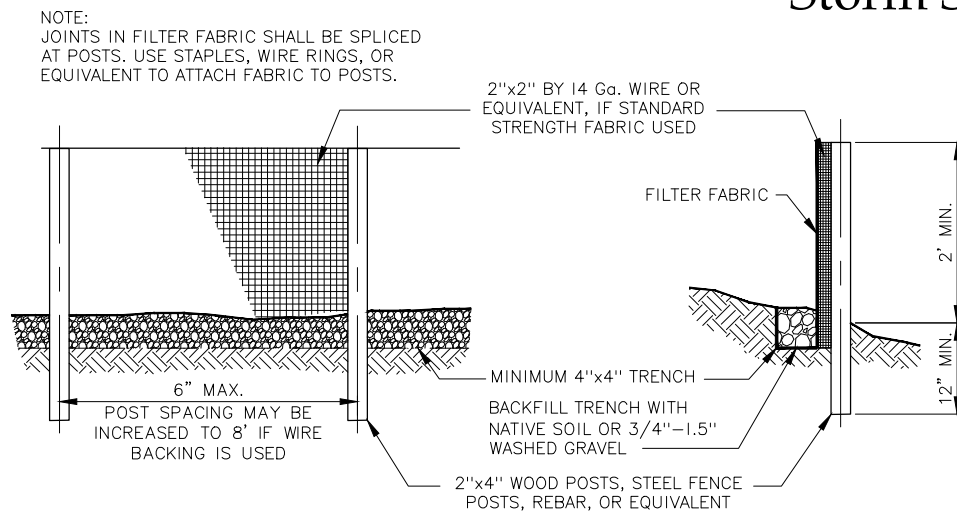
PLAN VIEW

1. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 60' FOR 18" DIAMETER OR 30' FOR 12" DIAMETER LOGS.
2. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
3. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
4. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.
5. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.

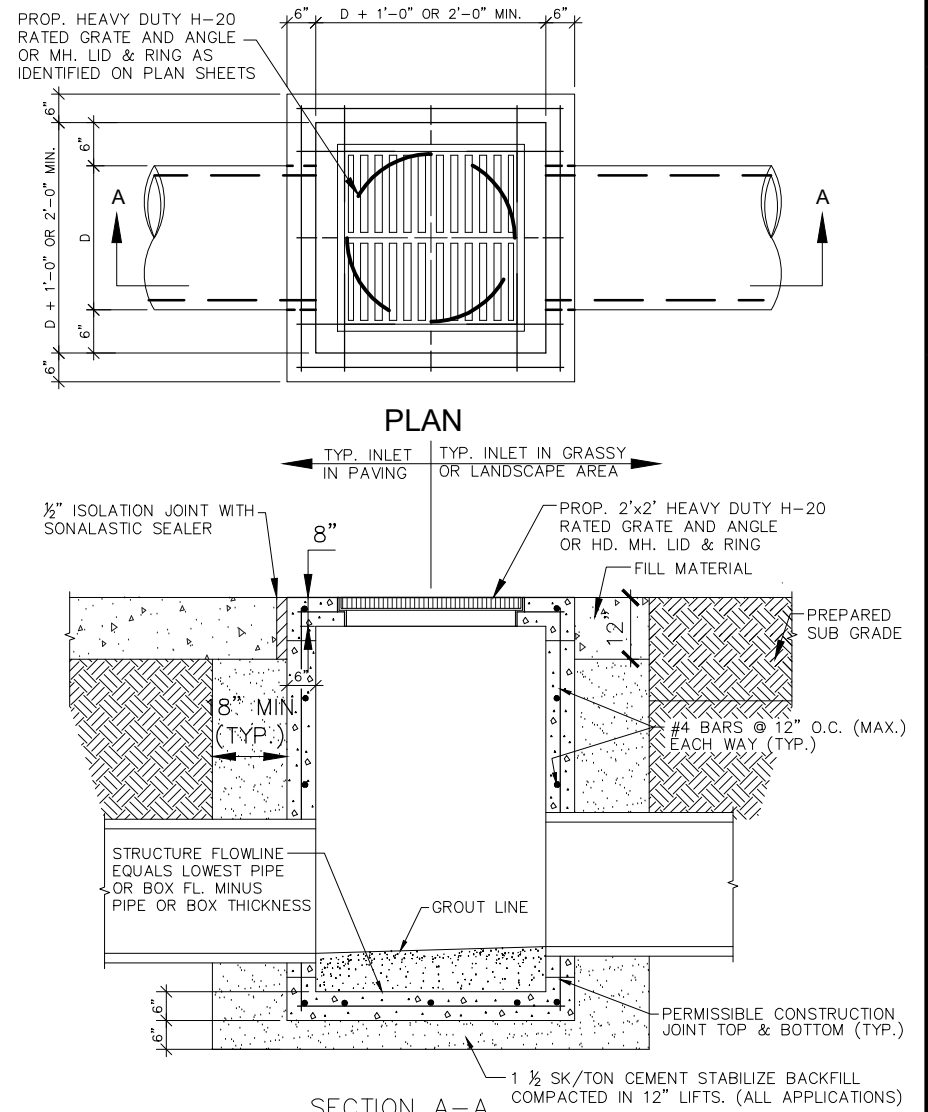
Log Placement at Edge of Pavement



SECTION A-A



Silt Fence



Storm Sewer Inlet



Bernardino D. Tristan
Feb 20, 2026

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SITE DETAILS

C4.10

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