

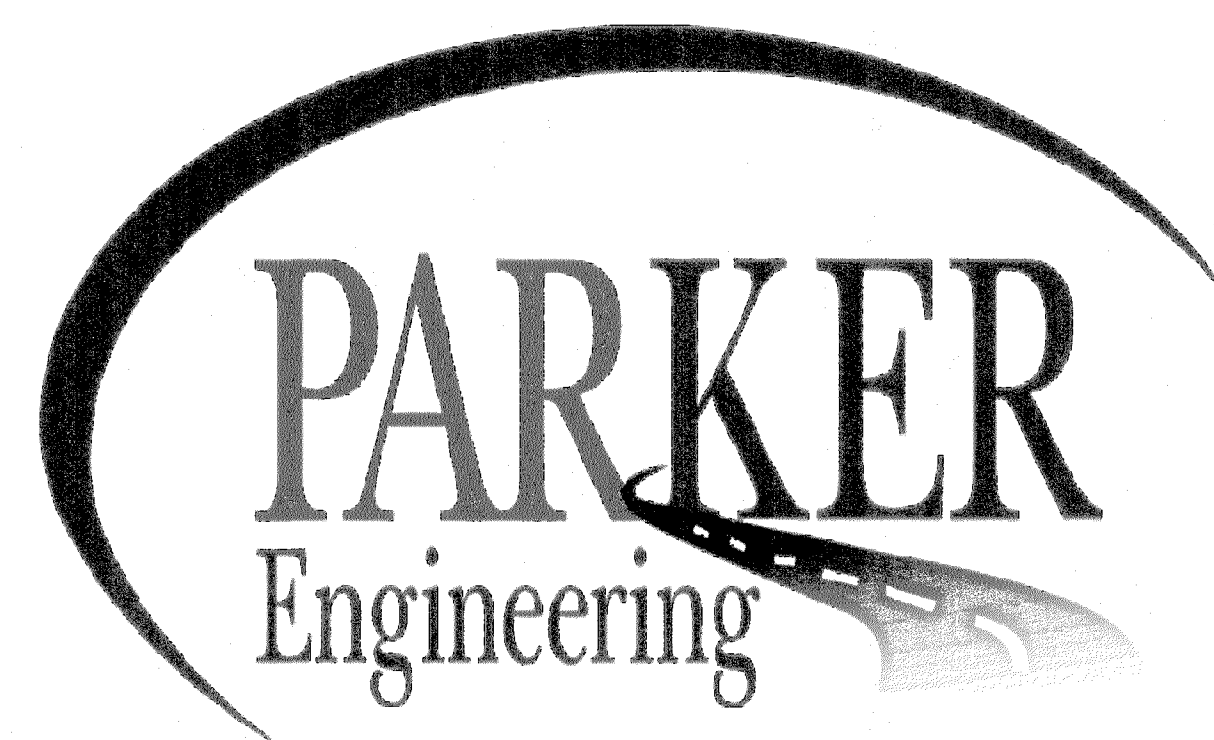
# CONSTRUCTION PLANS FOR BLUE JAY ROAD WATER MAIN EXTENSION

EFFINGHAM COUNTY, GEORGIA  
prepared for:  
EFFINGHAM COUNTY BOARD OF  
COMMISSIONERS  
FEBRUARY 2018

COUNTY OFFICIALS

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VERA JONES	BOARD MEMBER
FORREST FLOYD	BOARD MEMBER
JAMIE DELOACH	BOARD MEMBER
PHIL KIEFFER	BOARD MEMBER
REGGIE LOPER	BOARD MEMBER
STEVE DAVIS	COUNTY ADMINISTRATOR

INDEX OF DRAWINGS	
SHEET No.	TITLE
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2	OVERALL SHEET
3-13	UTILITY PLAN AND PROFILE
14	CONSTRUCTION DETAILS
15-17	EROSION CONTROL NOTES



*George Wesley Parker*  
 GEORGE WESLEY PARKER  
 0000033463 05/04/2019  
 LEVEL II CERTIFICATION NUMBER EXPIRES

36 COURTLAND STREET, SUITE B  
 STATESBORO, GEORGIA 30458  
 PHONE: 912-764-7722

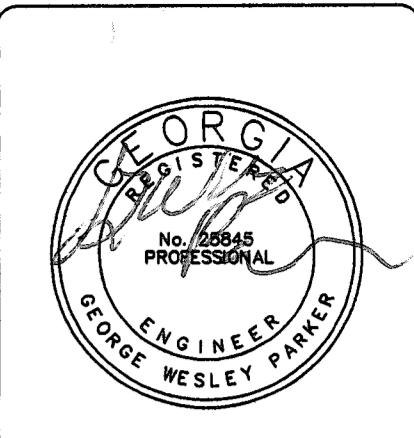


PROJECT #: PE17183

VICINITY MAP



- ⊕ POWER POLE
- ⬮ FIRE HYDRANT
- Conc. Mkr (F)
- 5/8" Rebar(F)
- ⊗ Telephone fiber optics
- Telephone pedestal



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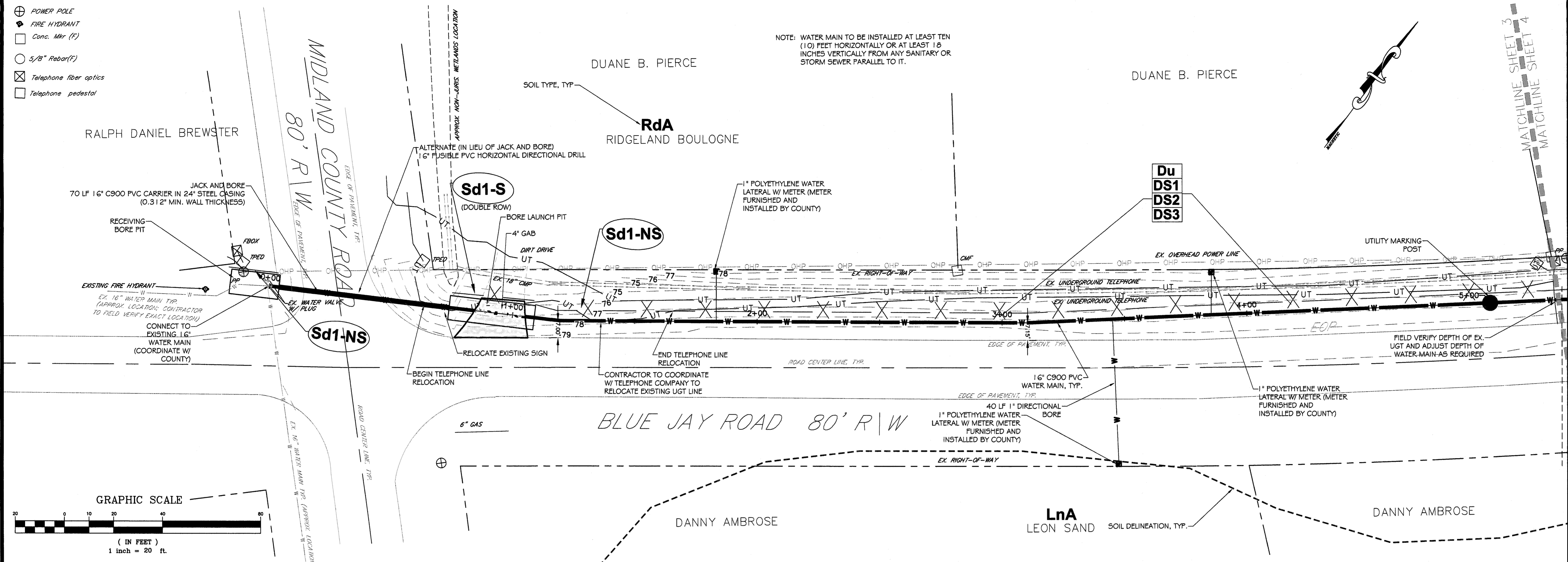


**BLUE JAY ROAD WATER MAIN  
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**EFFINGHAM COUNTY, GA**  
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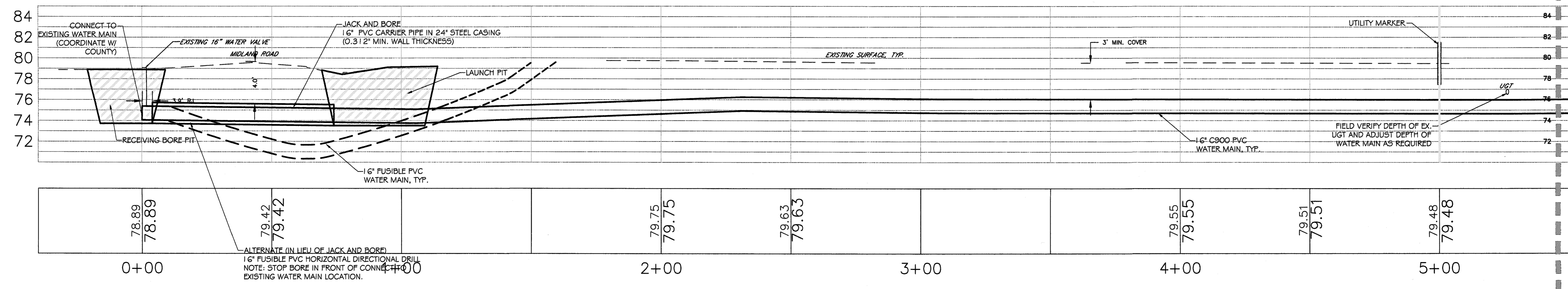
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1	12/15/2017	INITIAL SUBMITTAL
2	1/29/2018	REVISION 1

Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #1**

Drawn by: WAS  
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 Scale: 1" = 20'  
 Project No.: PE17183



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**PROPOSED WATER MAIN**  
**STA: 6+00-12+08**  
**H: 1" = 20'**  
**V: 1" = 4'**



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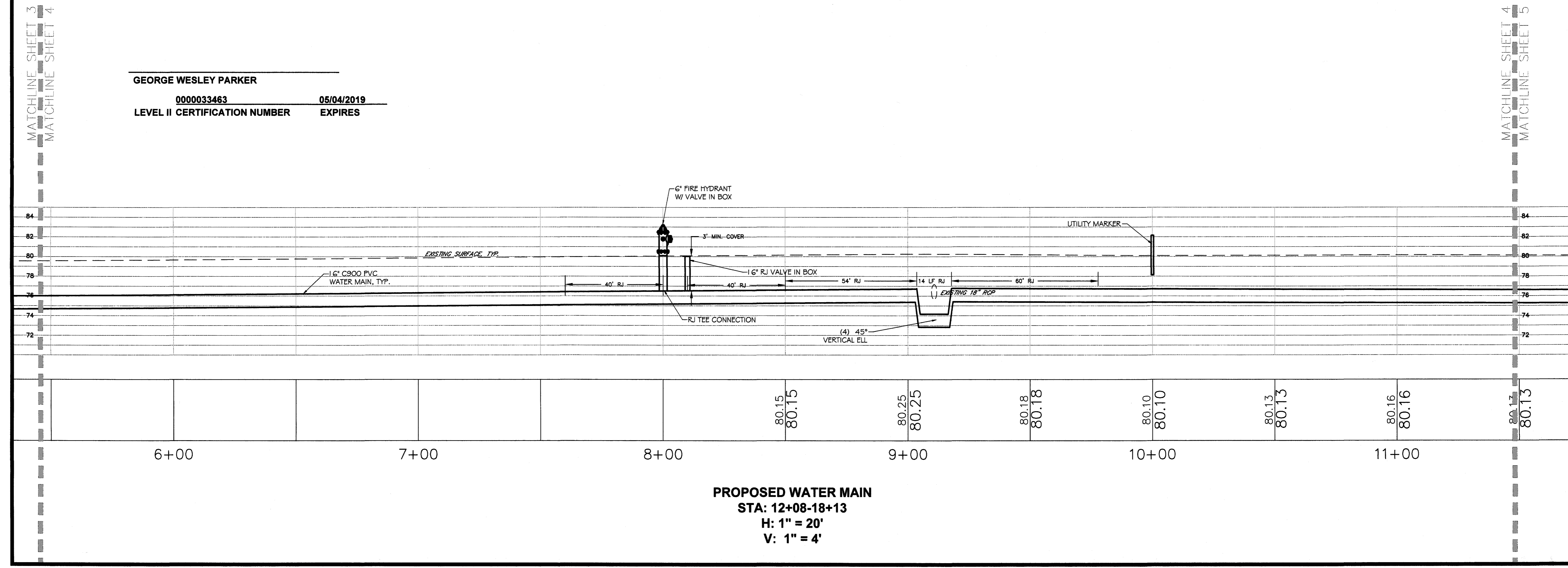
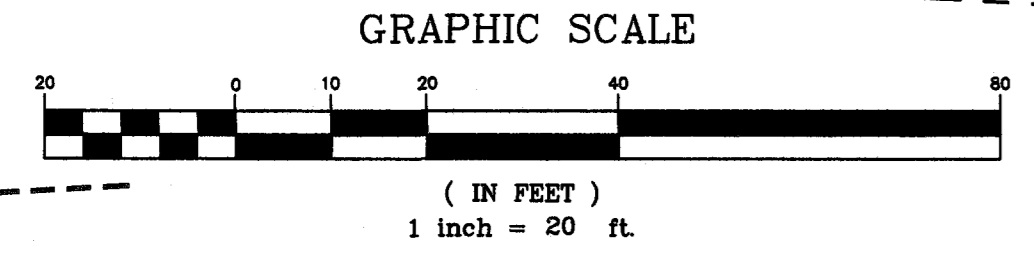
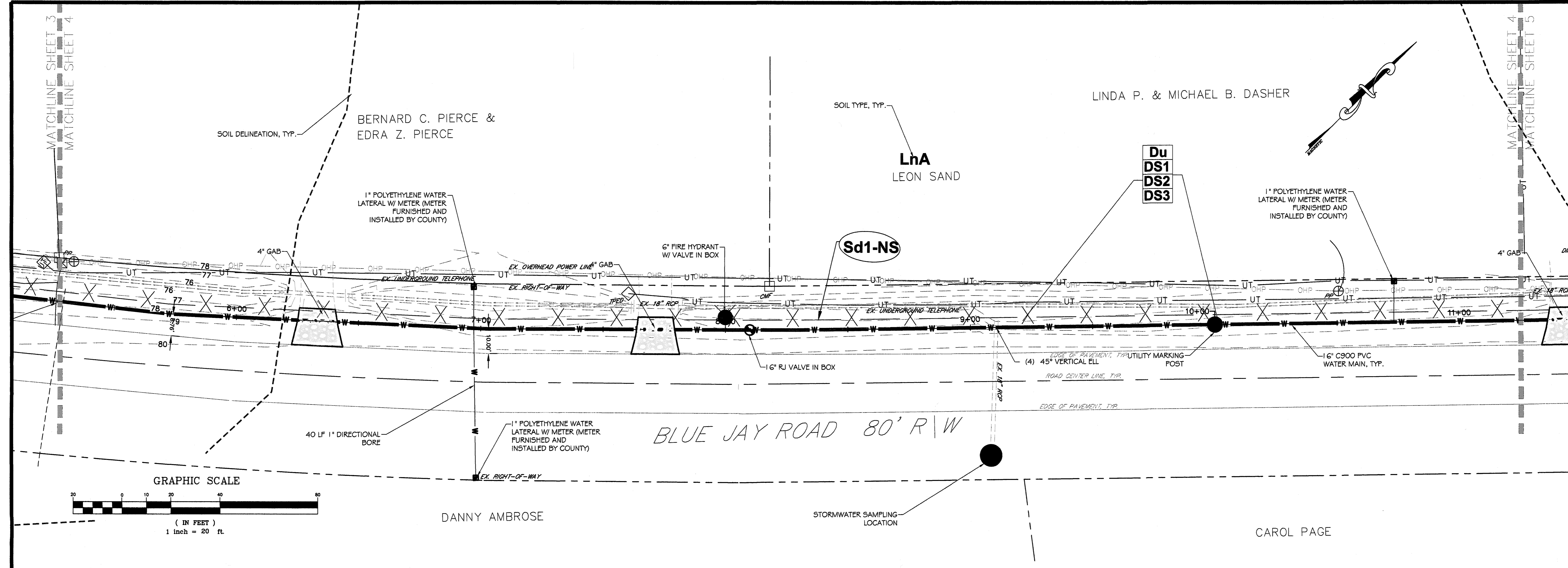
**BLUE JAY ROAD WATER MAIN  
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #2**

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4



**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**



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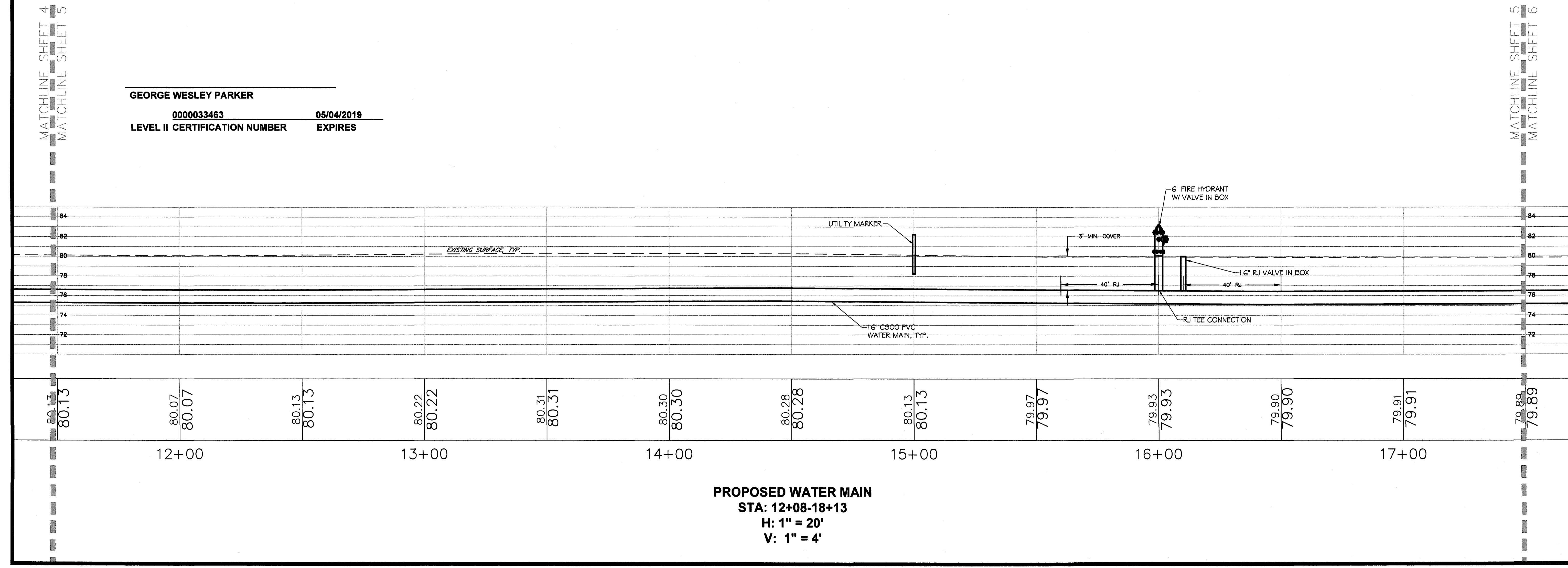
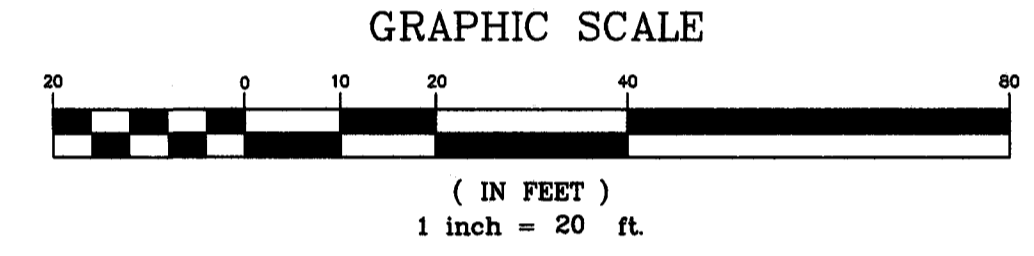
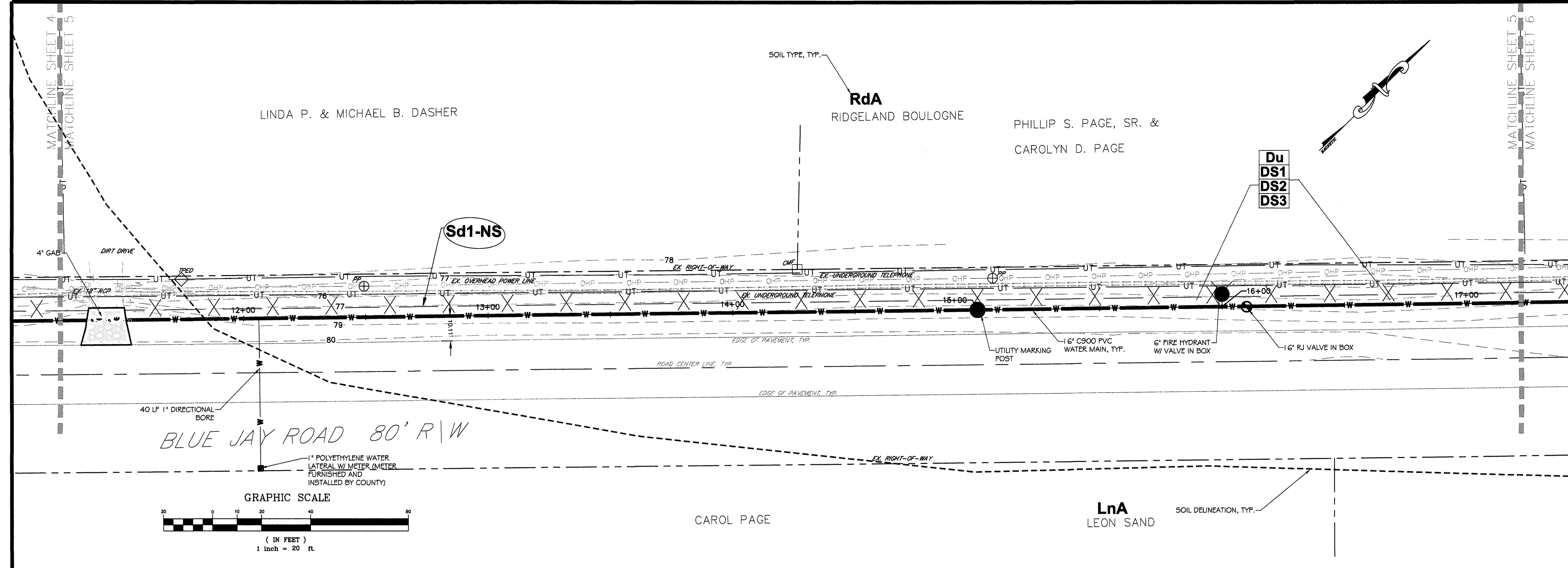


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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #3**

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**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**



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**BLUE JAY ROAD WATER MAIN  
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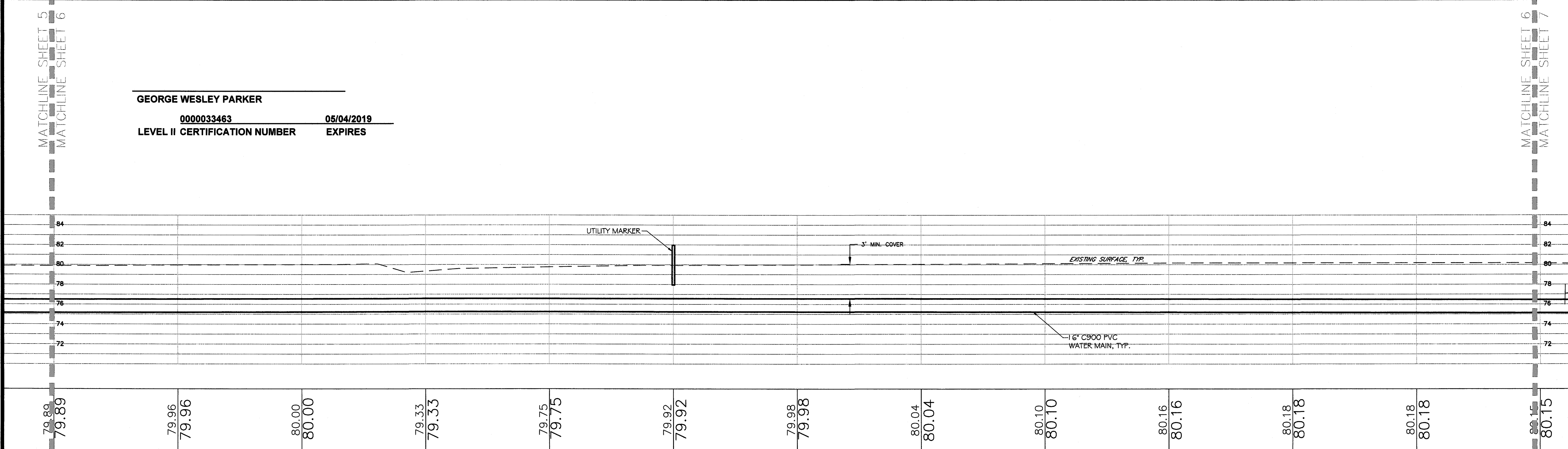
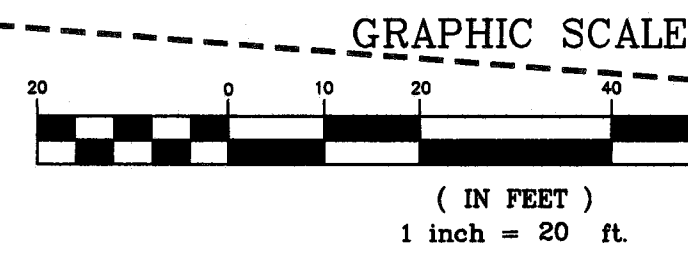
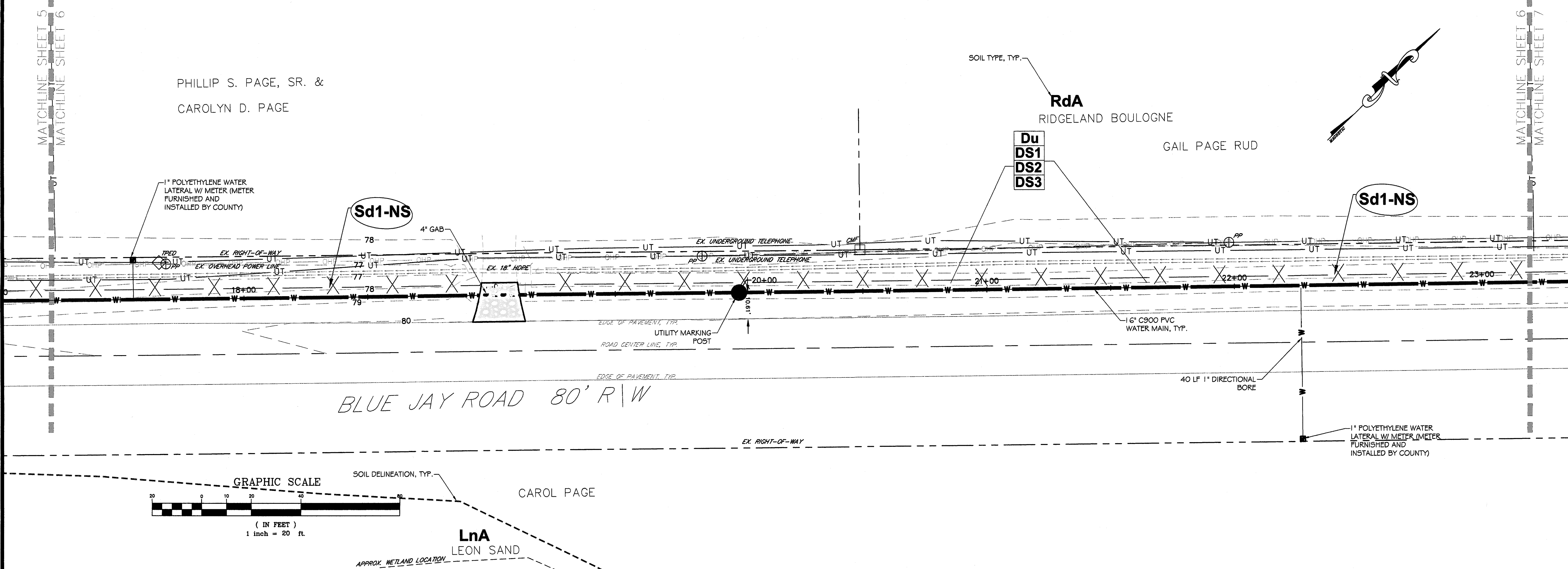
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #4**

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 Scale: 1" = 20'  
 Project No.: PE17183

6

PHILLIP S. PAGE, SR. &  
 CAROLYN D. PAGE



**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**



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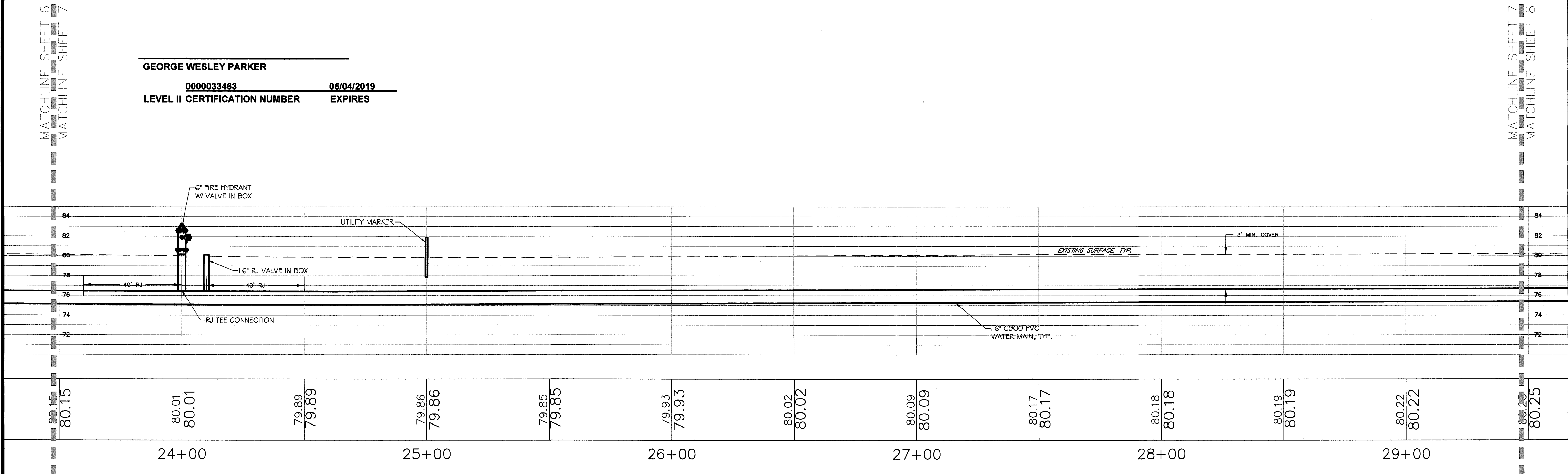
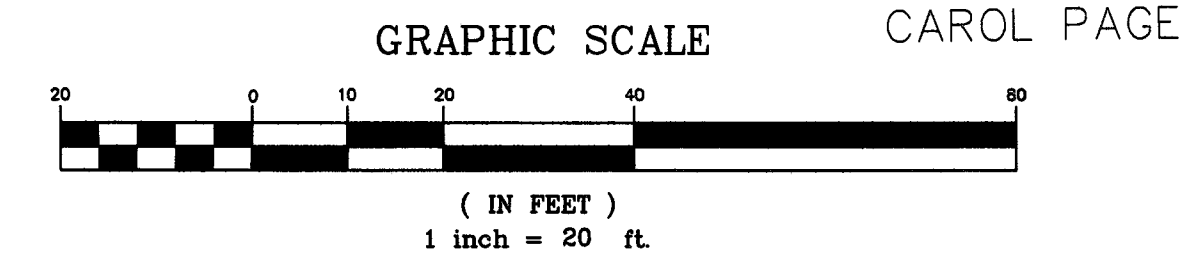
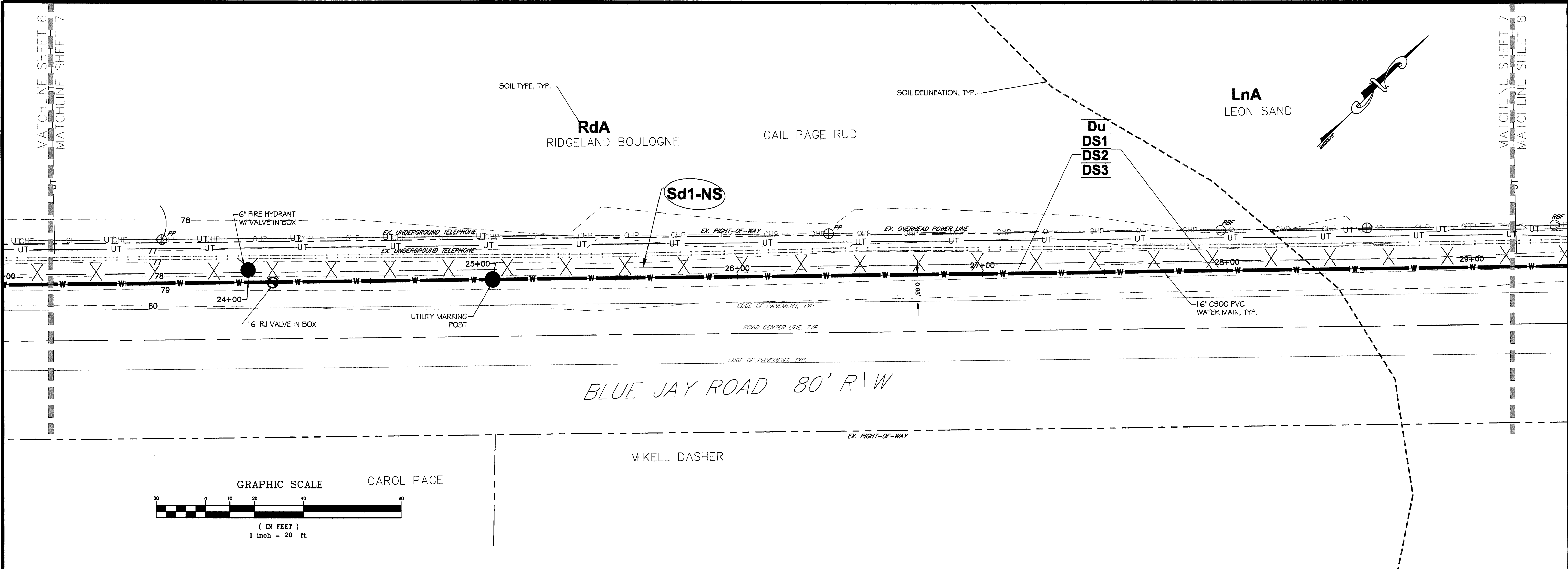


**BLUE JAY ROAD WATER MAIN  
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #5**

Drawn by: WAS  
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**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**

7



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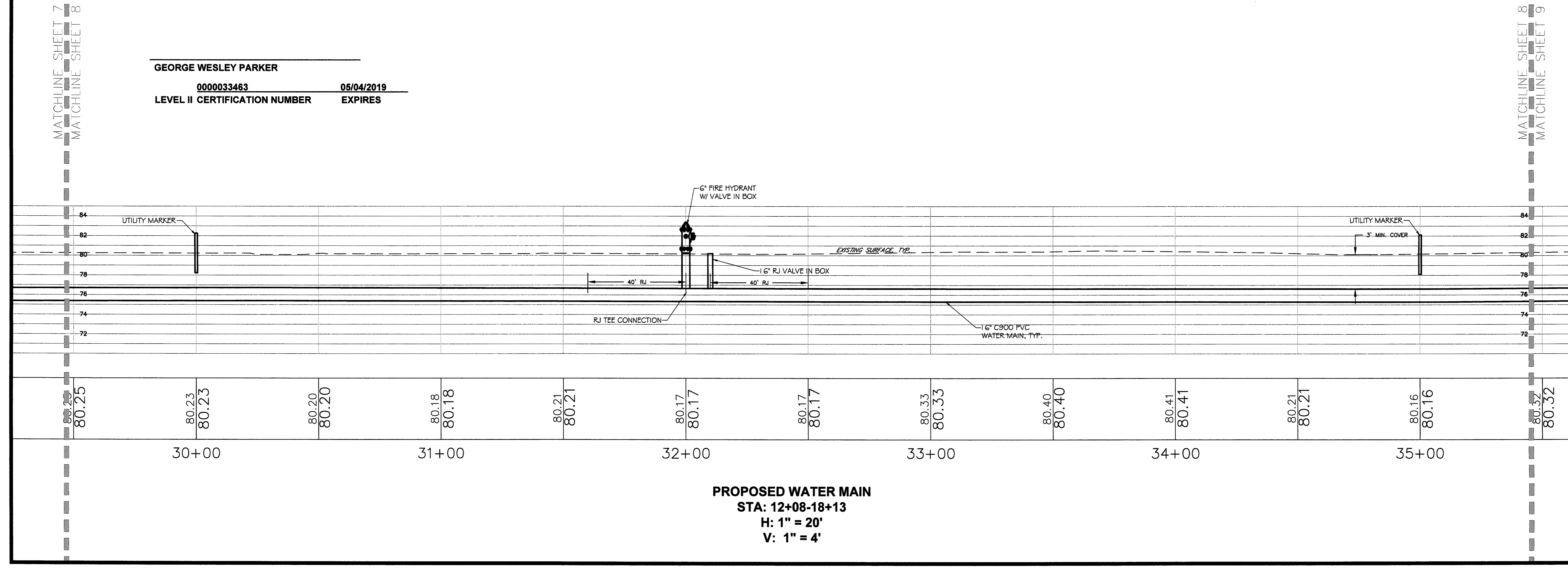
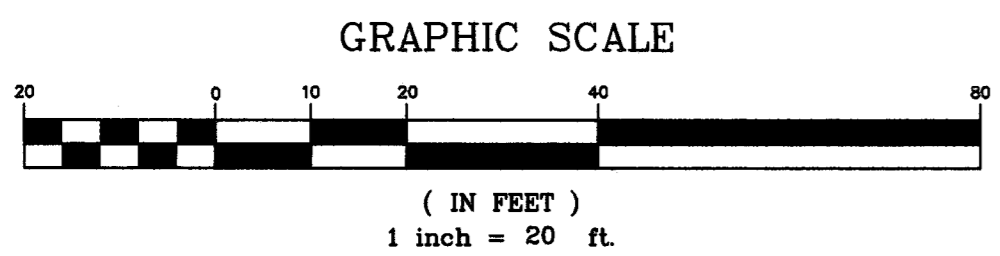
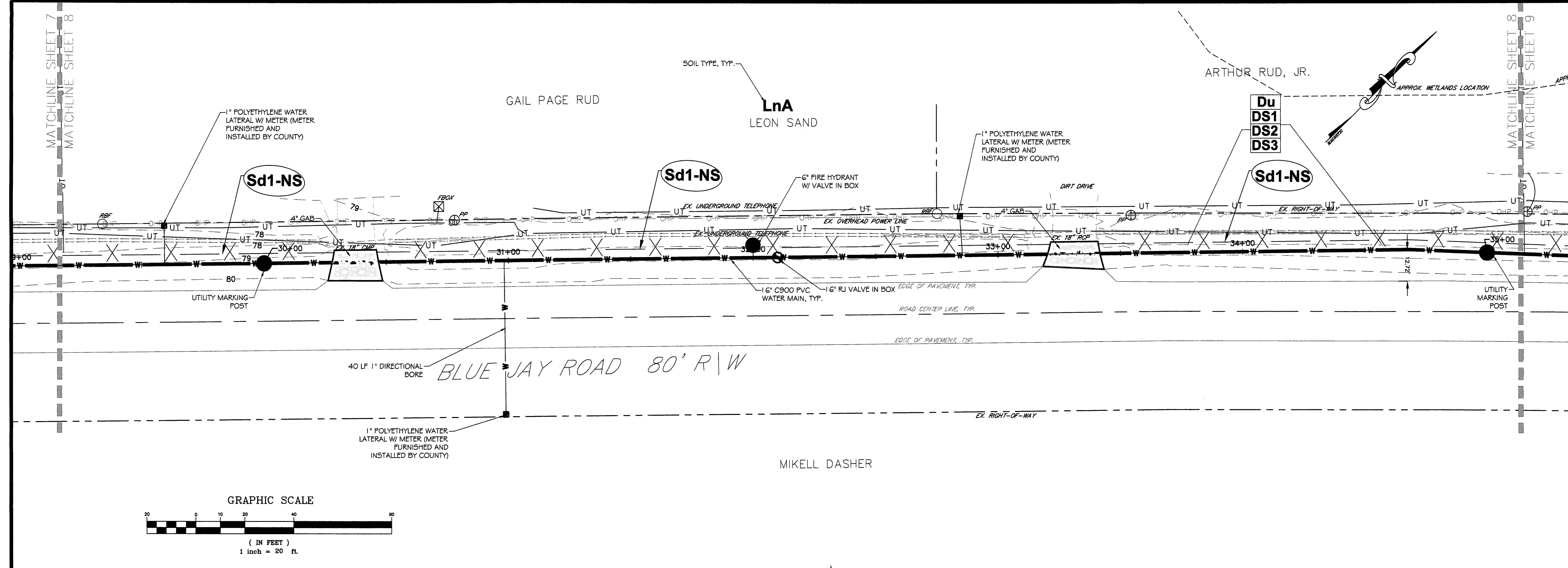


**BLUE JAY ROAD WATER MAIN  
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #6**

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 Scale: 1" = 20'  
 Project No.: PE17183



**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**

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 0000033463 05/04/2019  
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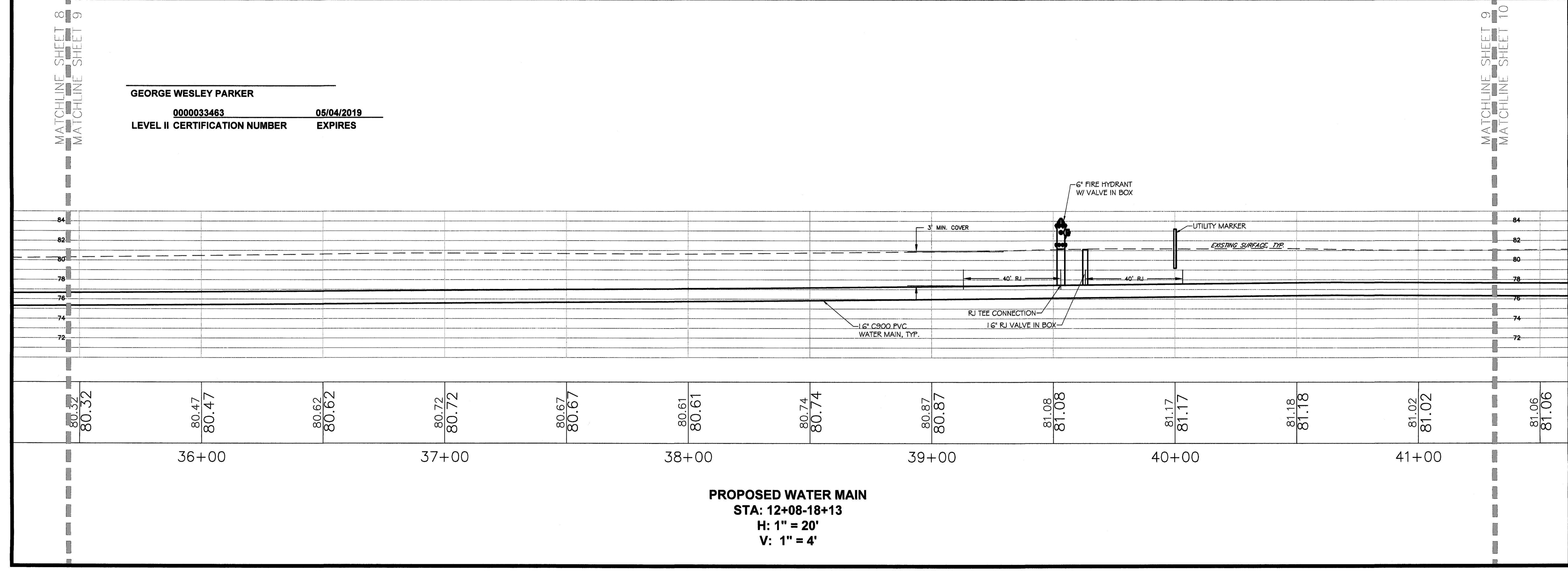
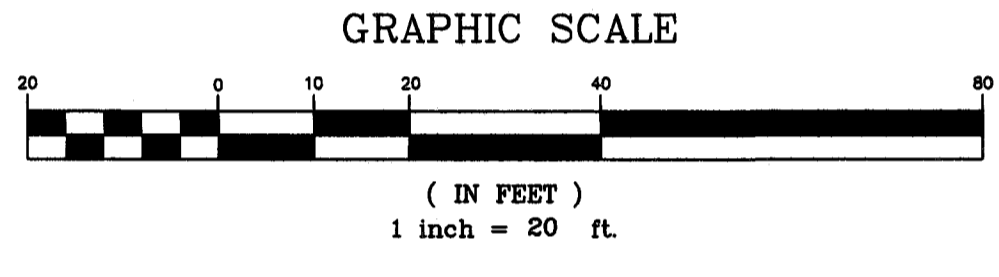
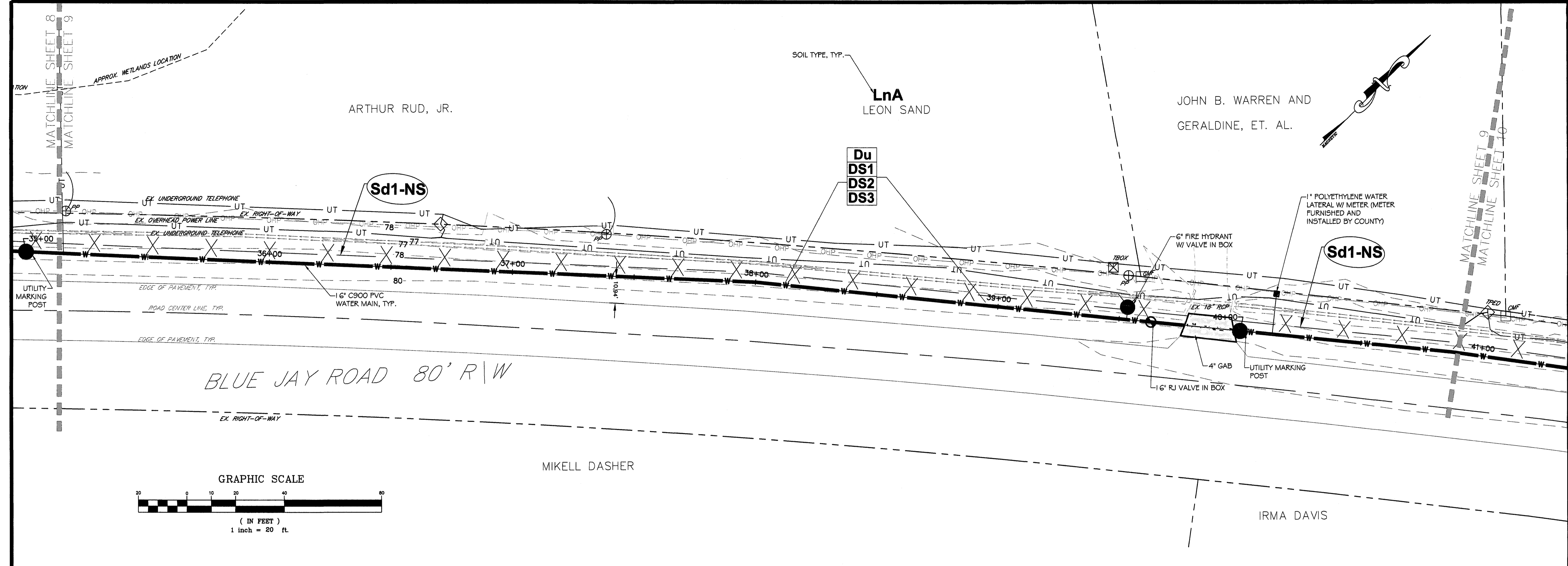


**BLUE JAY ROAD WATER MAIN  
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #7**

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 Project No.: PE17183



**PROPOSED WATER MAIN**  
**STA: 12+08-18+13**  
**H: 1" = 20'**  
**V: 1" = 4'**

WILLIAM E. STOKES, JR. & ANGELA, ET. AL.

WILLIAM P. JORDAN & JANET V. JORDAN

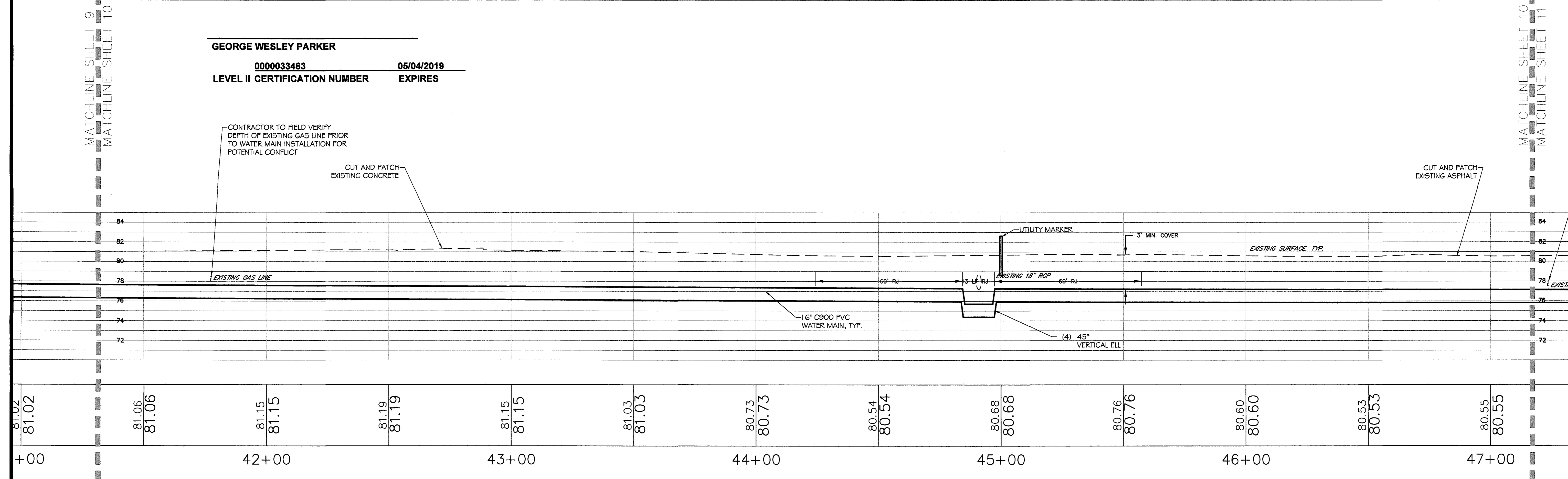
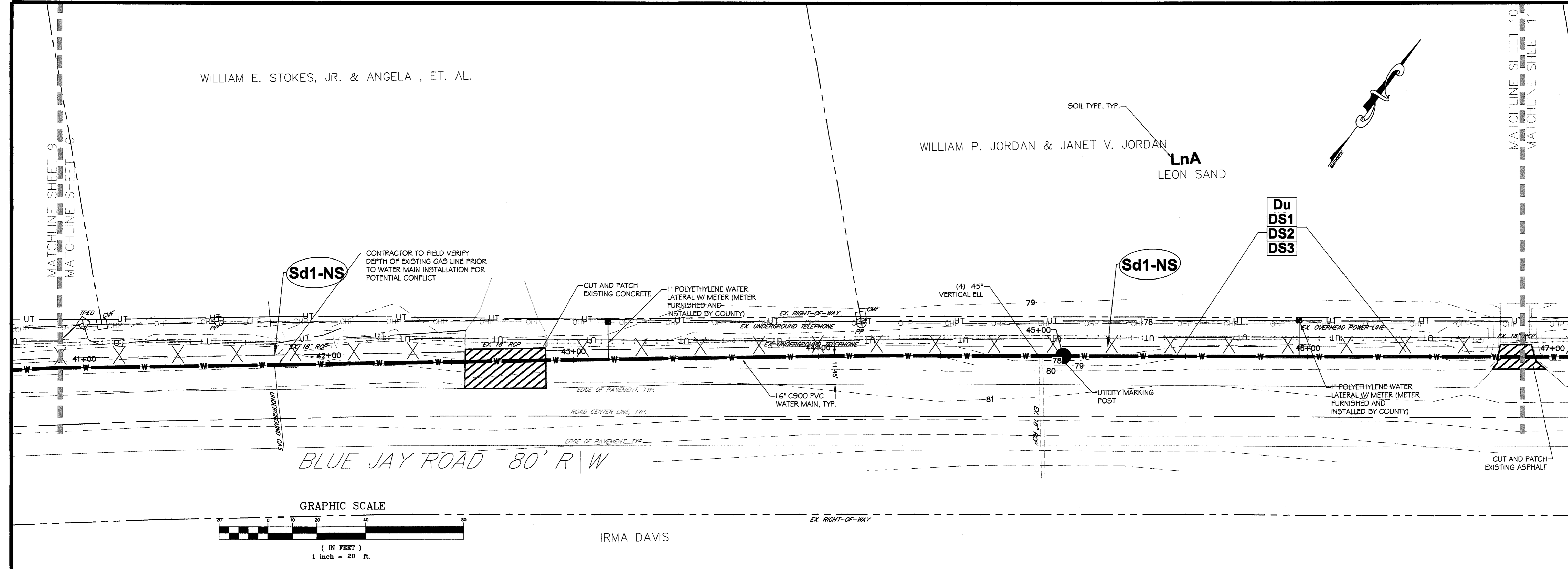
LnA  
LEON SAND



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**BLUE JAY ROAD WATER MAIN  
EXTENSION**  
EFFINGHAM COUNTY, GA  
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**PROPOSED WATER MAIN**  
STA: 12+08-18+13  
H: 1" = 20'  
V: 1" = 4'

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Sheet Title:  
UTILITY PLAN  
AND PROFILE #8

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10



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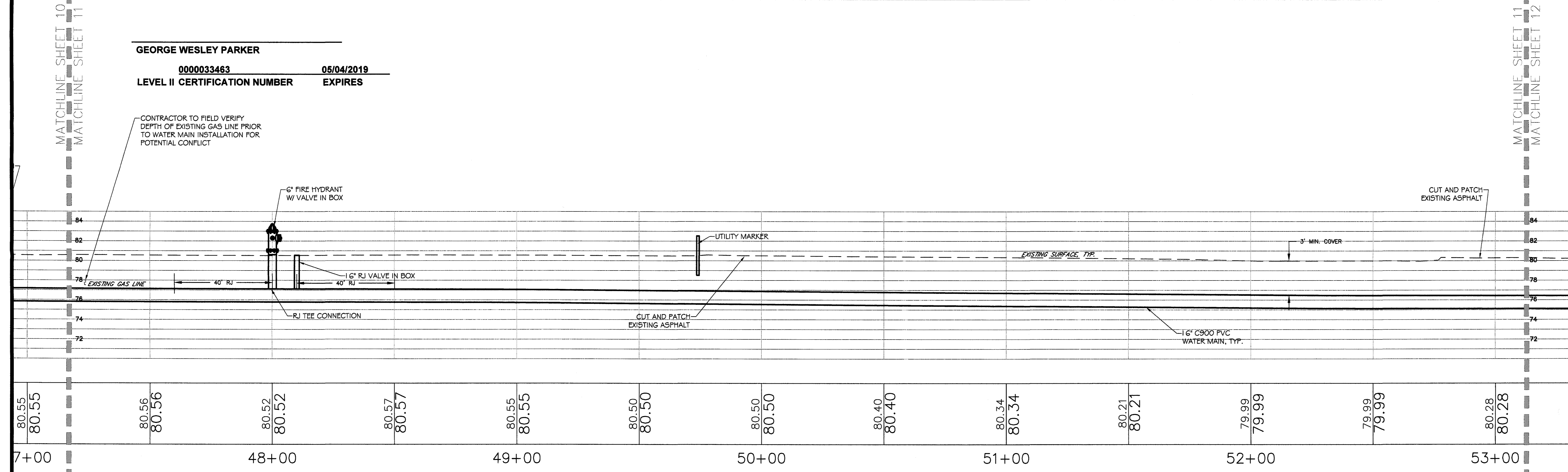
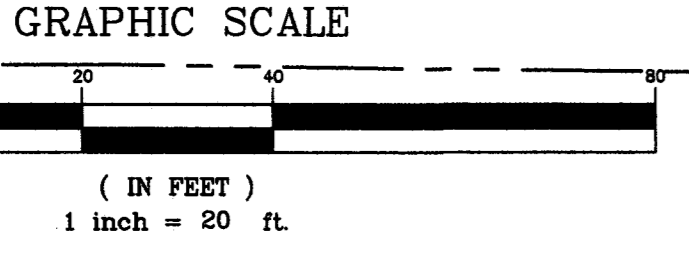
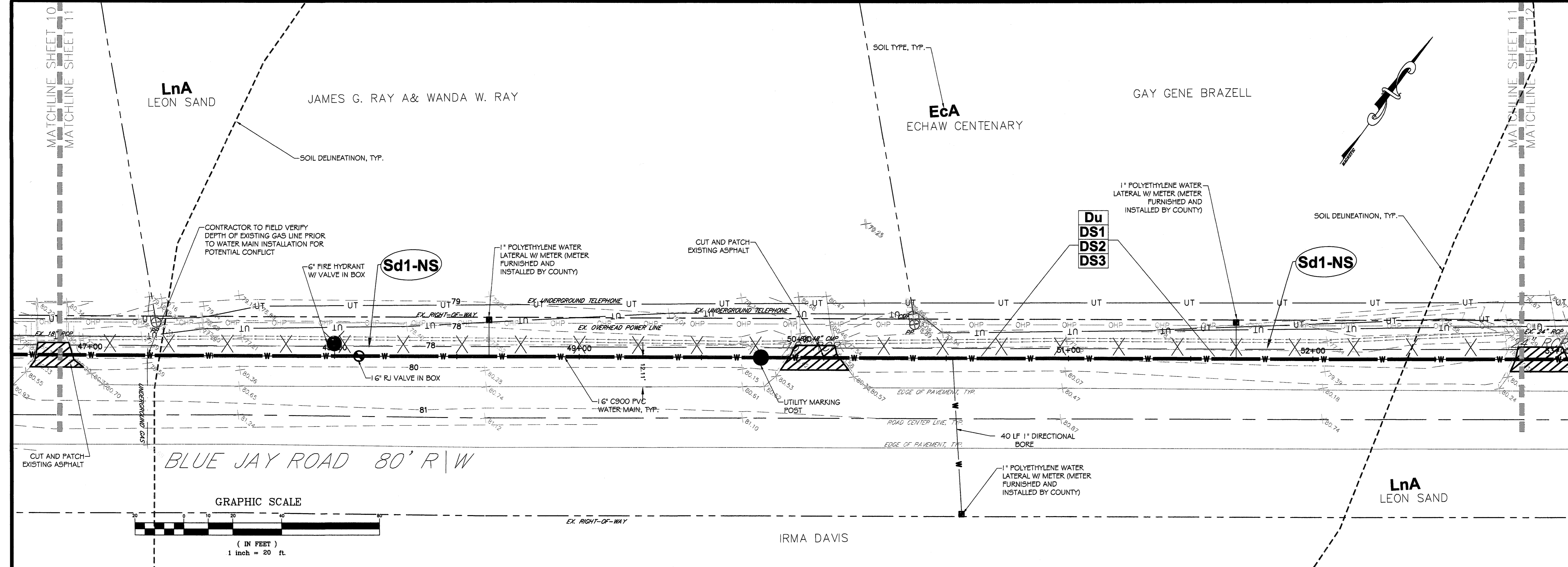
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #9**

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 Scale: 1" = 20'  
 Project No.: PE17183

11



**PROPOSED WATER MAIN**  
 STA: 12+08-18+13  
 H: 1" = 20'  
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**GEORGE WESLEY PARKER**  
 0000033463 05/04/2019  
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CONTRACTOR TO FIELD VERIFY  
 DEPTH OF EXISTING GAS LINE PRIOR  
 TO WATER MAIN INSTALLATION FOR  
 POTENTIAL CONFLICT



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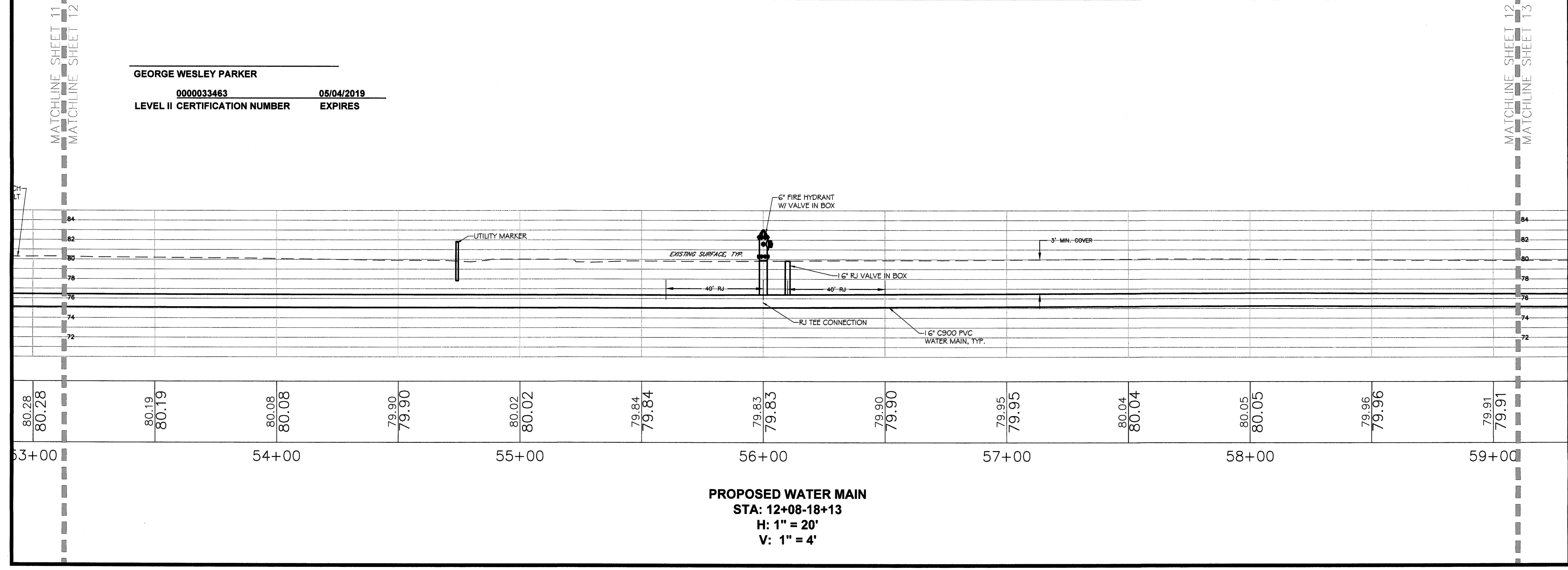
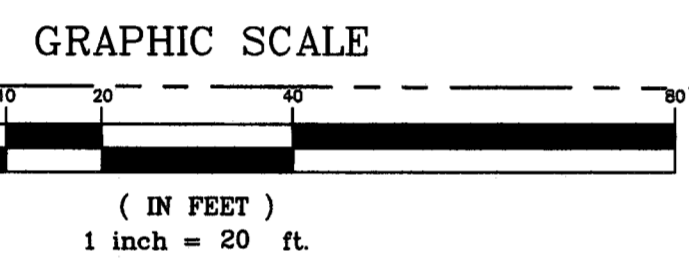
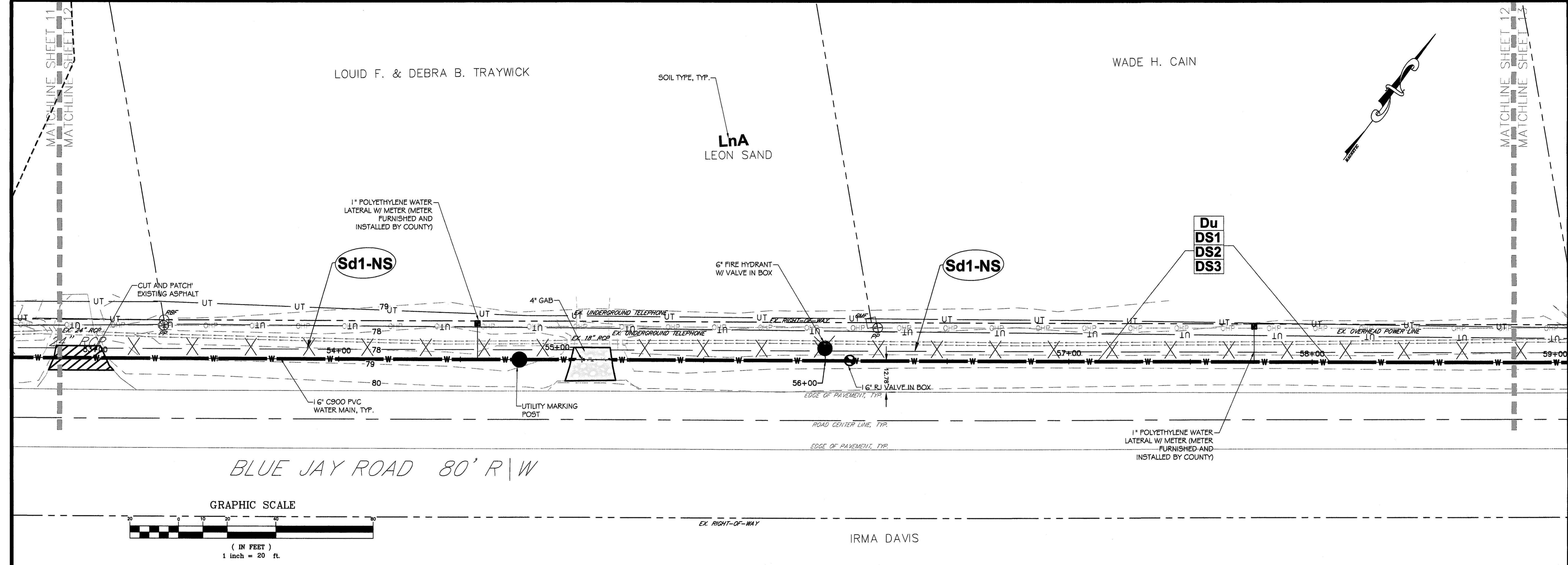
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Sheet Title:  
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 AND PROFILE #10

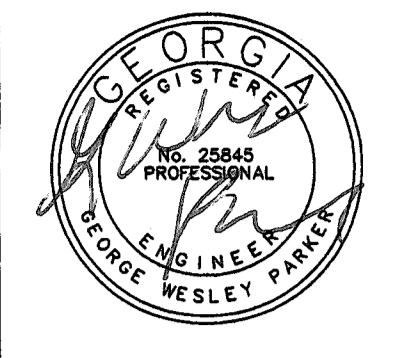
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 Scale: 1" = 20'  
 Project No.: PE17183

12



**PROPOSED WATER MAIN**  
 STA: 12+08-18+13  
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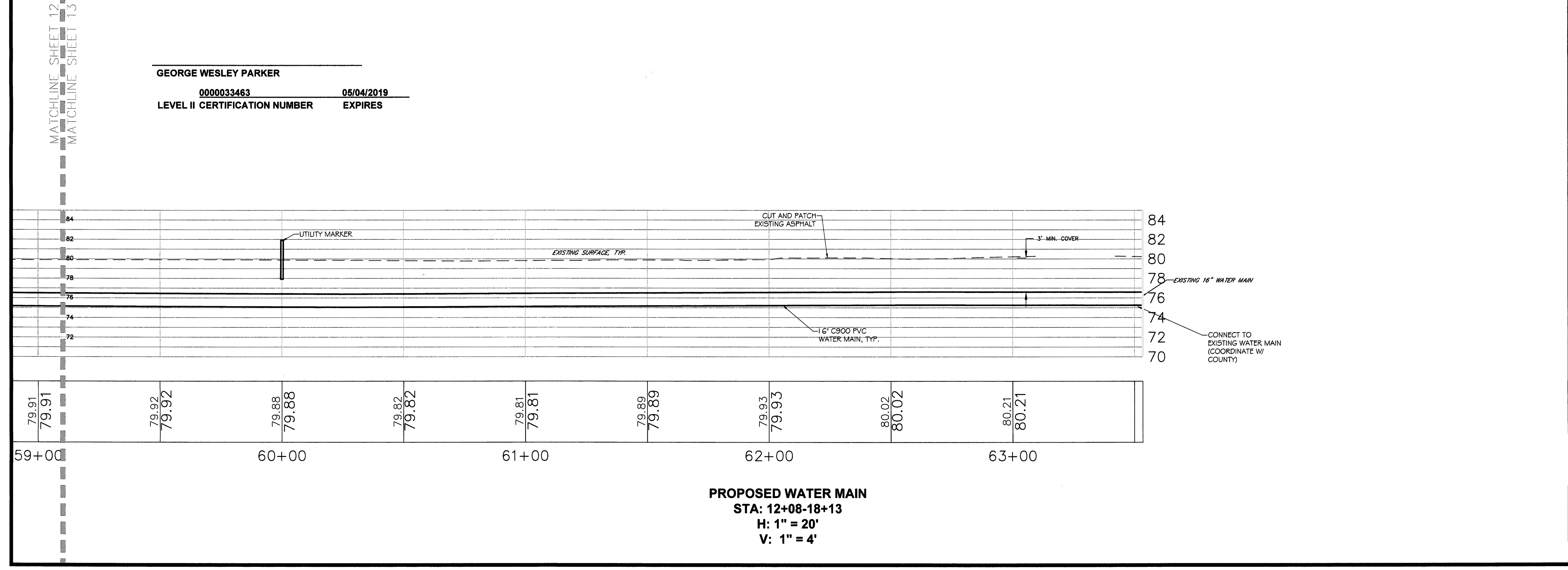
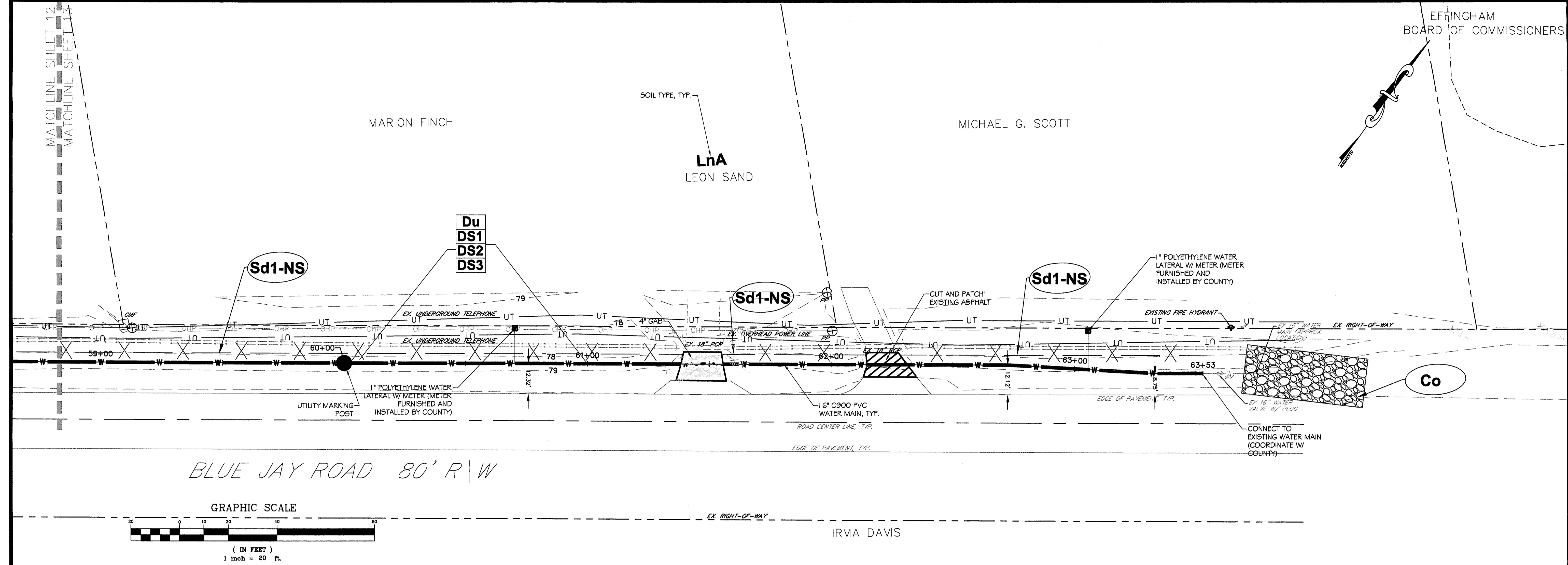
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Sheet Title:  
**UTILITY PLAN  
 AND PROFILE #11**

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 Project No.: PE17183

13







46. SEE ALL EROSION CONTROL PLANS FOR THE SOIL SERIES LOCATED ON PROJECT SITE. SEE BELOW FOR SOIL SERIES DESCRIPTION.
47. SEE ALL EROSION CONTROL PLANS FOR THE LIMITS OF DISTURBANCE.

48. SEDIMENT CALCULATIONS

DISTURBED ACREAGE	1.5 AC.	SUB-BASIN 1 = 2.9 AC; SUB-BASIN 2 = 4.2 AC.
REQD. STORAGE PER ACRE	67 YARDS	
REQD. STORAGE	101 YDS	(67 YDS/AC. * 1.5 AC.)
REQD. STORAGE	424 CY	TO BE STORED IN SILT FENCE

30" SILT FENCE CALC: 6102 LF SILT FENCE (3' WIDE/1.25' OR 50% CLEANOUT HEIGHT: 424 CY STORAGE > 101 CY)

49. CODE PRACTICE DESCRIPTION

Sd1	SEDIMENT BARRIER	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, HAYBALES, BRUSH, LOGS OR A SEDIMENT FENCE. BARRIERS ARE TEMPORARY.
Ds1	STABILIZATION	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS BY MULCHING.
Ds2	TEMPORARY VEGETATION	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS. (INCLUDES MULCHING) HYDROSEEDING IS AN ALTERNATIVE.
Ds3	PERMANENT VEGETATION	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS GRASS, TREES, SHRUBS, ETC. ON DISTURBED GROUND.
Du	DUST CONTROL	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.

Effingham County, Georgia (GA103)  
Effingham County, Georgia (GA103)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Eca	Echaw-Centenary complex, 0 to 2 percent slopes	5.0	4.1%
LnA	Leon sand, 0 to 2 percent slopes	77.1	63.6%
RdA	Ridgeland-Boulogne complex, 0 to 2 percent slopes	39.1	32.2%
<b>Totals for Area of Interest</b>		<b>121.2</b>	<b>100.0%</b>

50. SEE THIS SHEET FOR DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES.

51. VEGETATIVE PLAN FOR DISTURBED AREAS

All bare areas resulting from construction operations will be established to perennial vegetation as soon as possible after final grading is complete.

**SEEDBED**  
Prepare seedbed to a depth of at least 4 inches on all areas where a good seedbed is not present. Remove rocks, roots, or other objects that will interfere with vegetation establishment or maintenance operations.

**FERTILIZER**  
Apply agricultural lime at the rate of 1 tons per acre. Apply 1000 lbs. 15-15-15 fertilizer per acre. Spread lime and fertilizer uniformly over all areas immediately before final land preparation and mix thoroughly with the soil. Apply topdressing of 100 lbs. per acre of ammonium nitrate (or equivalent) when plants are 2 to 4 inches tall.

**PLANTING**  
All areas shall be seed with the following:

SEPTEMBER-MARCH  
Rye (Temporary Grassing)/Bermuda Mixture (Permanent Grassing)  
Rye @ 1/2 bushel (3.9 lbs.) per 1000 sqft  
Unhulled Bermuda @ 0.22 lbs. per 1000 sqft

MARCH-SEPTEMBER  
Browntop Millet (Temporary Grassing)/Bermuda Mixture (Permanent Grassing)  
Browntop Millet @ 10 lbs. per acre  
Hulled Bermuda @ 10 lbs. per acre

**MULCHING**  
2 Tons per acre of straw. Anchor mulch into ground. Mulch shall be approximately 1-2 inches thick.

**MAINTENANCE**  
Apply 400 lbs. per acre or 10-10-10 fertilizer and topdress with 30 lbs. of ammonium nitrate per acre every year. Apply 1 ton of lime per 5 years.

PROVIDE VEGETATION AND MULCHING TO ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING. LAND CLEARING SHALL BE KEPT TO A MINIMUM AND SHALL BE ACCOMPLISHED IN A WAY TO MINIMIZE EROSION. SCHEDULE LAND DISTURBING ACTIVITIES WITH REGARD TO WEATHER FORECAST TO LIMIT EXPOSURE OF UNPROTECTED LAND FROM WIND, RAIN AND OTHER EROSIIVE FORCES.

DS2  
DS3

GENERAL EROSION CONTROL NOTES

THIS SITE IS NOT LOCATED WITHIN A FLOOD ZONE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT ALL STAGES OF CONSTRUCTION.

CONSTRUCTION OR LAND CLEARING SHALL BEGIN WITH THE INSTALLATION OF EROSION CONTROL MEASURES.

SEDIMENT CONTROL WILL BE ACHIEVED BY USE OF SILT FENCE AND CHECK DAMS. REMOVE ACCUMULATED SILT FROM SILT FENCE AND CHECK DAMS WHEN THEY REACH 1.5' IN DEPTH.

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES DAILY AND AFTER ALL RAIN EVENTS. ANY DAMAGES SHOULD BE REPAIRED BY THE END OF THE DAY. SEDIMENT DISPOSAL SHALL BE ACCOMPLISHED BY SPREADING EVENLY OVER THE SITE. SEDIMENT FENCES SHALL REMAIN UNTIL THE AREA IS STABILIZED.

EROSION CONTROL MEASURES IN THE PLAN ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DETERMINED BY ACTUAL FIELD CONDITIONS.

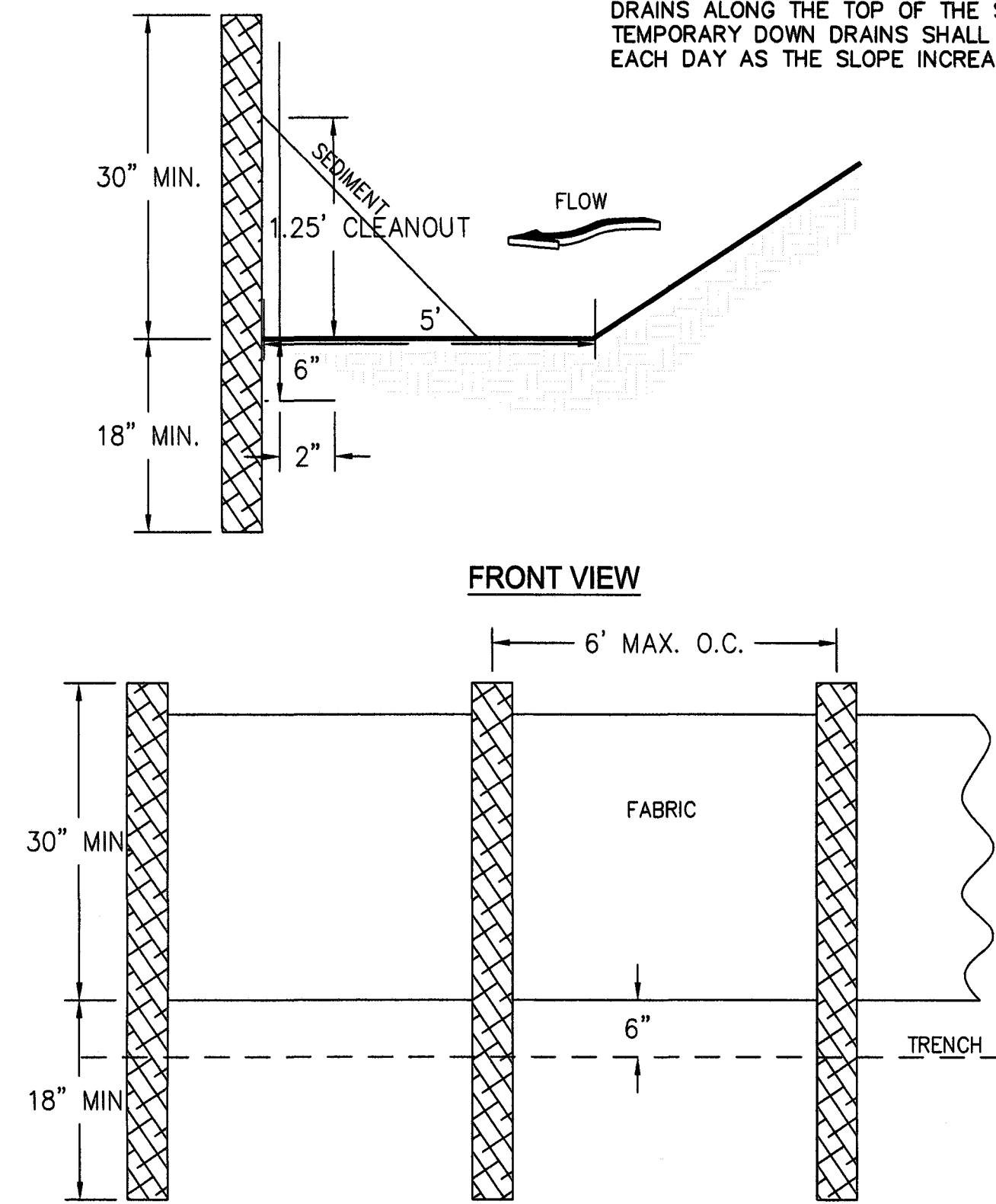
ALL RIP-RAP SHALL BE INSTALLED FLUSH WITH CHANNEL BANKS AND BOTTOM.

SPILL CONTINGENCY PLAN

- A. CONTAIN THE SPILL
- B. STOP THE SOURCE
- C. CLEANUP PROCEDURES SHALL BE CLEARLY POSTED
- D. CLEANUP MATERIALS SHALL BE READILY AVAILABLE

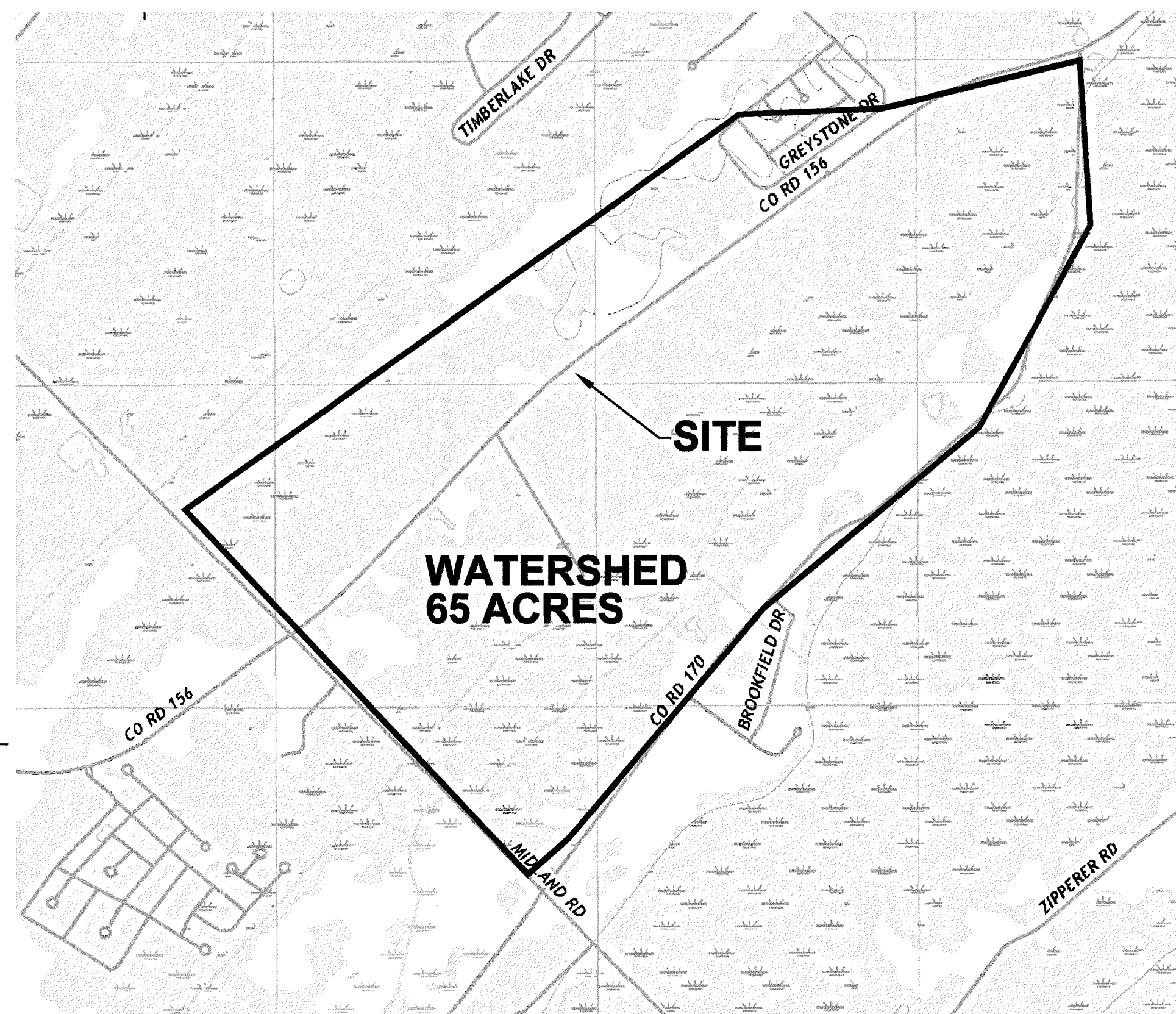
NOTES REGARDING CRITICAL WORK ZONE

AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.



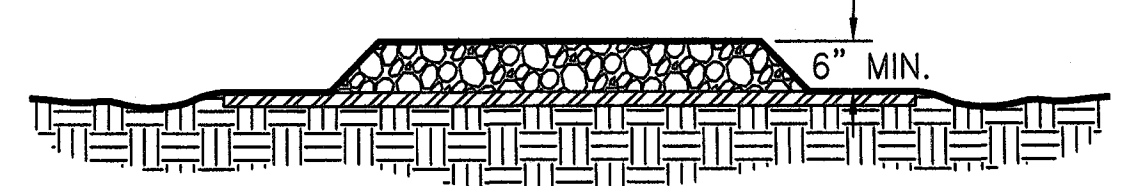
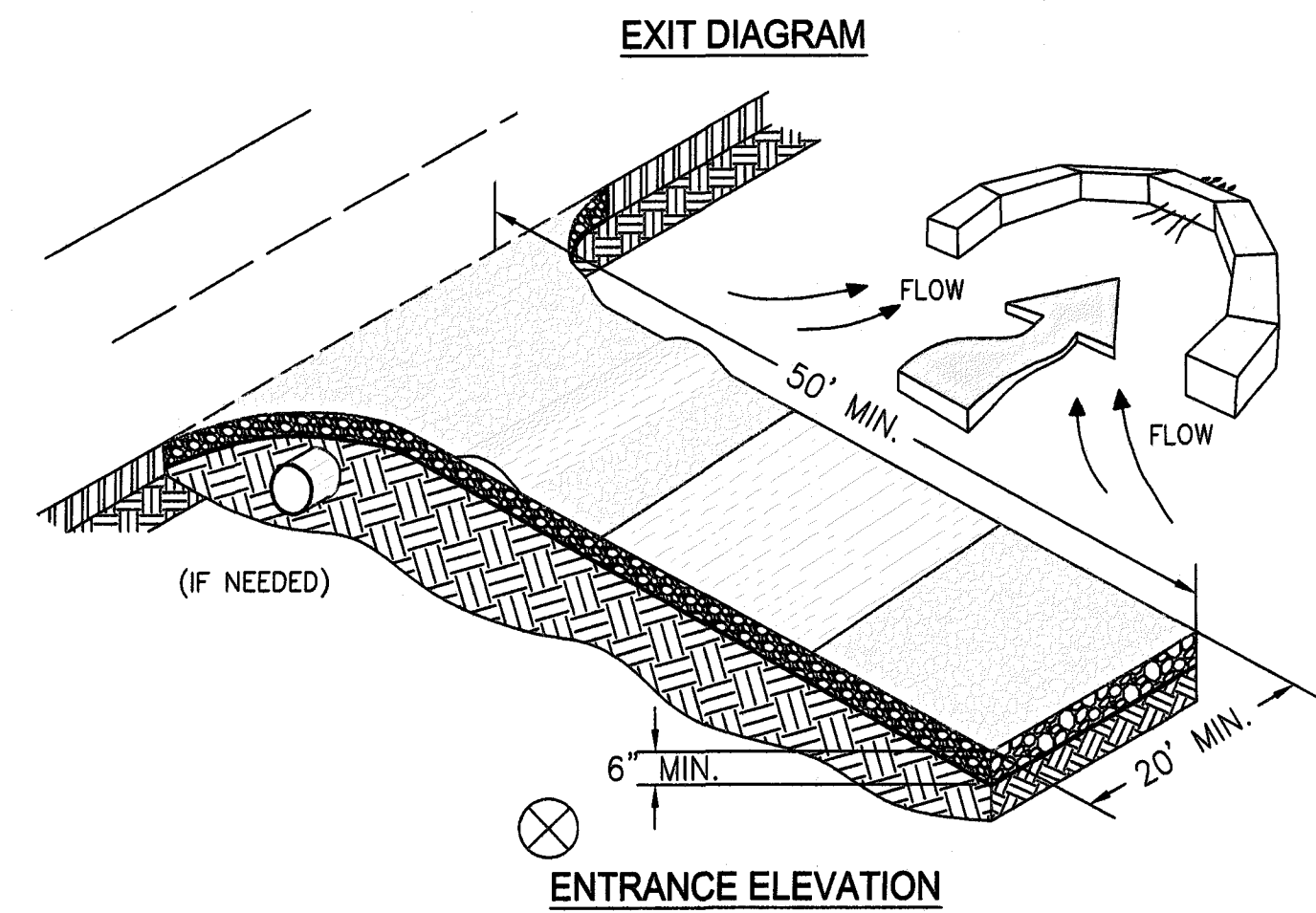
- NOTES:
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  - HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd-1NS  
SILT FENCE TYPE NON-SENSITIVE  
NTS



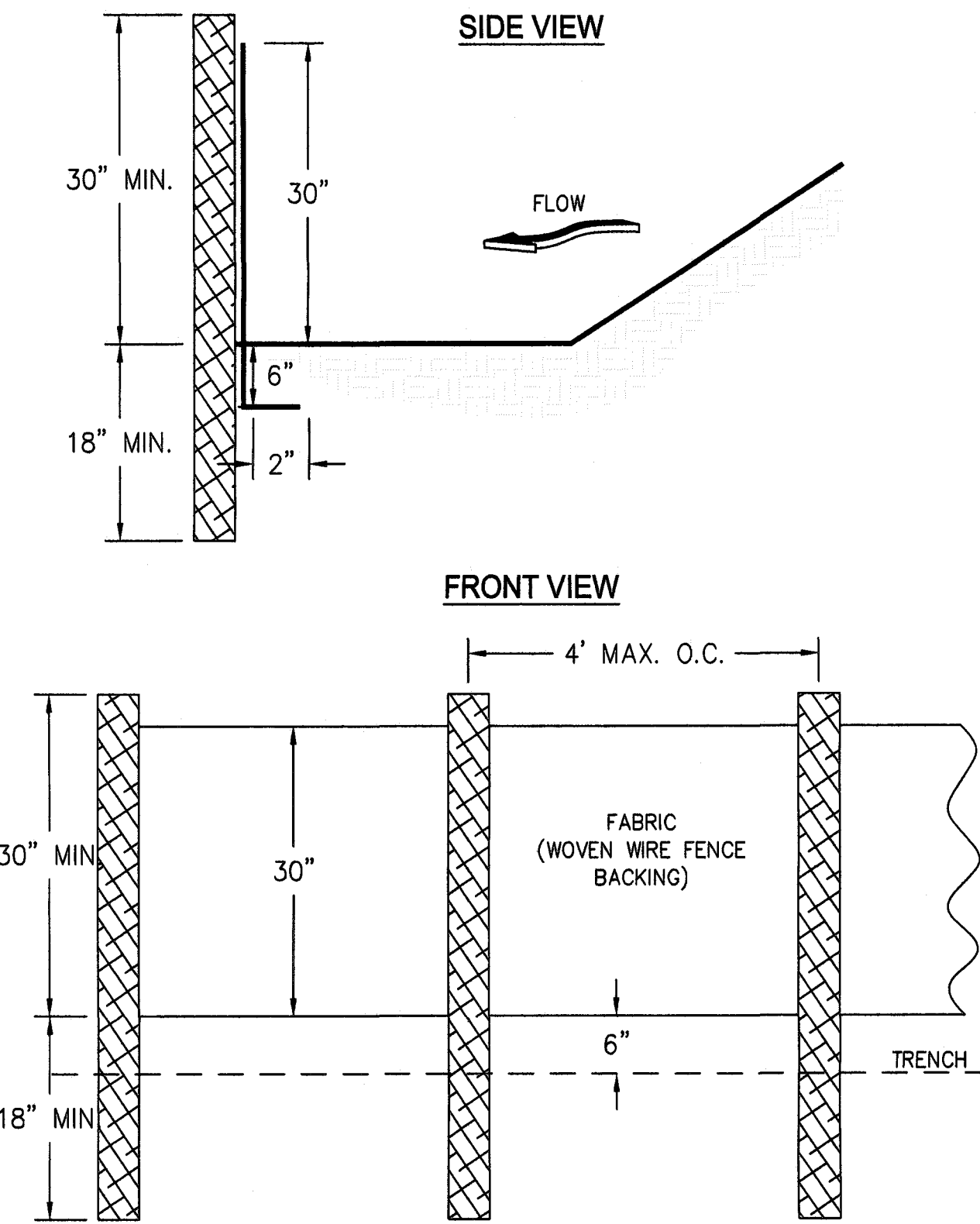
USGS TOPO MAP  
N.T.S

CRUSHED STONE CONSTRUCTION EXIT



- NOTES:
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

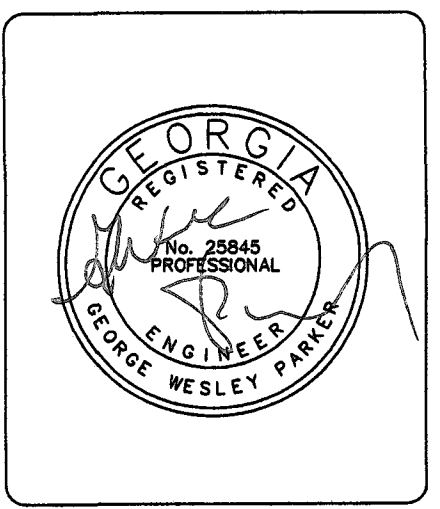
SILT FENCE - TYPE SENSITIVE



- NOTES:
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  - HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

GEORGE WESLEY PARKER

0000033463 05/04/2019  
LEVEL II CERTIFICATION NUMBER EXPIRES



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BLUE JAY ROAD WATER MAIN  
EXTENSION  
EFFINGHAM COUNTY, GA  
prepared for:  
EFFINGHAM CO. BOARD OF COMMISSIONERS

No.	Date	Revision
1	12/15/2017	INITIAL SUBMITTAL
2	1/29/2018	REVISION 1

EROSION CONTROL NOTES

Drawn by: WAS  
Designed by: WAS  
Checked by: GWP  
Scale: NTS  
Project No.: PE17183



