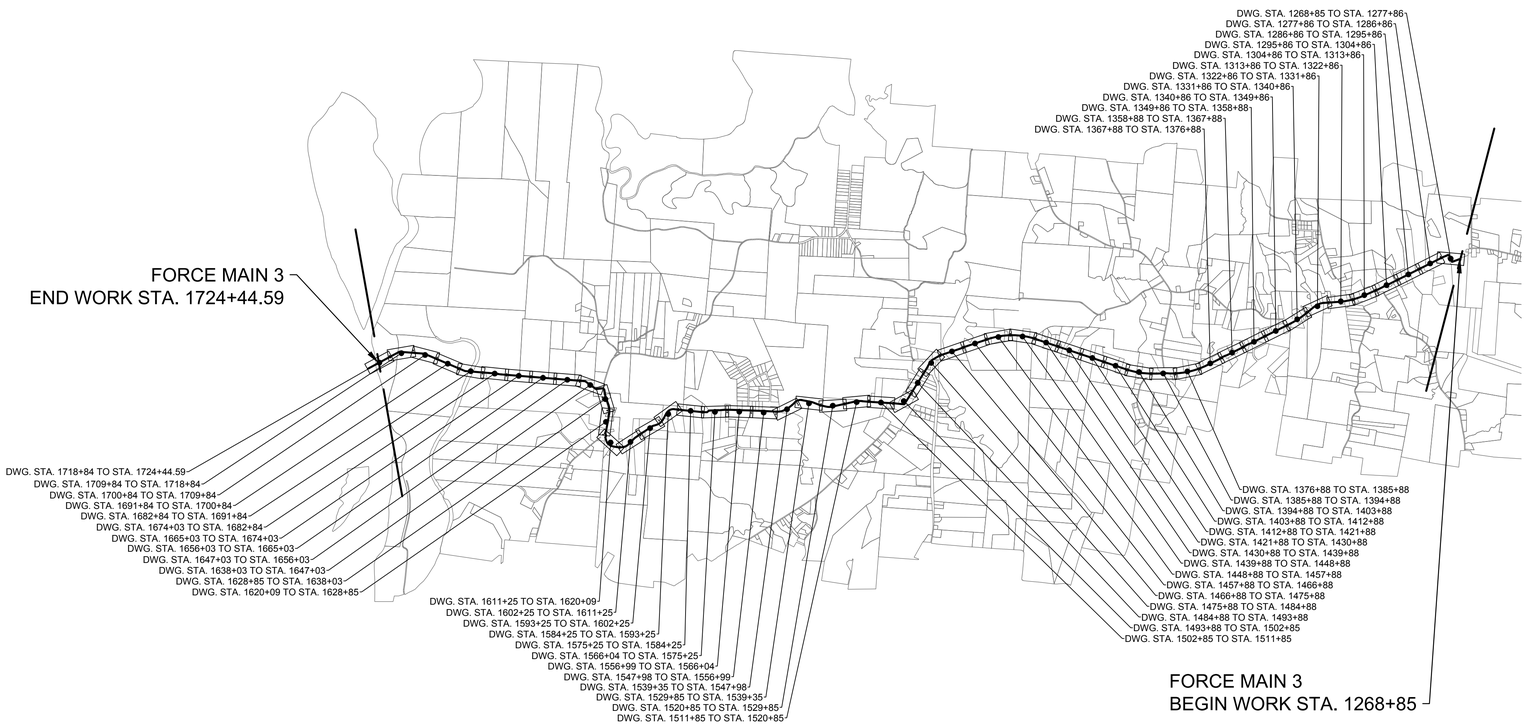
FORCE MAIN 3 - TRANSMISSION LINE



NORTH

FORCE MAIN 3 - EPSC PLANS
SHEET LAYOUT

SCALE: 1 INCH = 1/2 MILE

0 1/2 1 1-1/12

GRAPHIC SCALE: 1" = 1/2 MILE

FORCE MAIN 3 DRAWING INDEX		
ISSUED	DRAWING	DRAWING TITLE
	300-CE-300	FORCE MAIN 3 - EPSC PLAN SHEET LAYOUT AND INDEX
	300-CE-301	FORCE MAIN 3 - EPSC PLAN STA. 1268+85 TO 1278+00 AND STA. 1278+00 TO 1287+00
	300-CE-302	FORCE MAIN 3 - EPSC PLAN STA. 1287+00 TO 1296+00 AND STA. 1296+00 TO 1305+00
	300-CE-303	FORCE MAIN 3 - EPSC PLAN STA. 1305+00 TO 1314+00 AND STA. 1314+00 TO 1323+00
	300-CE-304	FORCE MAIN 3 - EPSC PLAN STA. 1323+00 TO 1332+00 AND STA. 1332+00 TO 1341+00
	300-CE-305	FORCE MAIN 3 - EPSC PLAN STA. 1341+00 TO 1350+00 AND STA. 1350+00 TO 1359+00
	300-CE-306	FORCE MAIN 3 - EPSC PLAN STA. 1359+00 TO 1368+00 AND STA. 1368+00 TO 1377+00
	300-CE-307	FORCE MAIN 3 - EPSC PLAN STA. 1377+00 TO 1386+00 AND STA. 1386+00 TO 1395+00
	300-CE-308	FORCE MAIN 3 - EPSC PLAN STA. 1395+00 TO 1404+00 AND STA. 1404+00 TO 1413+00
	300-CE-309	FORCE MAIN 3 - EPSC PLAN STA. 1413+00 TO 1422+00 AND STA. 1422+00 TO 1431+00
	300-CE-310	FORCE MAIN 3 - EPSC PLAN STA. 1431+00 TO 1440+00 AND STA. 1440+00 TO 1449+00
	300-CE-311	FORCE MAIN 3 - EPSC PLAN STA. 1449+00 TO 1458+00 AND STA. 1458+00 TO 1467+00
	300-CE-312	FORCE MAIN 3 - EPSC PLAN STA. 1467+00 TO 1476+00 AND STA. 1476+00 TO 1485+00
	300-CE-313	FORCE MAIN 3 - EPSC PLAN STA. 1485+00 TO 1494+00 AND STA. 1494+00 TO 1503+00
	300-CE-314	FORCE MAIN 3 - EPSC PLAN STA. 1503+00 TO 1512+00 AND STA. 1512+00 TO 1521+00

FORCE MAIN 3 DRAWING INDEX		
ISSUED	DRAWING	DRAWING TITLE
	300-CE-315	FORCE MAIN 3 - EPSC PLAN STA. 1521+00 TO 1530+00 AND STA. 1530+00 TO 1539+00
	300-CE-316	FORCE MAIN 3 - EPSC PLAN STA. 1539+00 TO 1548+00 AND STA. 1548+00 TO 1557+00
	300-CE-317	FORCE MAIN 3 - EPSC PLAN STA. 1557+00 TO 1566+00 AND STA. 1566+00 TO 1575+00
	300-CE-318	FORCE MAIN 3 - EPSC PLAN STA. 1575+00 TO 1584+00 AND STA. 1584+00 TO 1593+00
	300-CE-319	FORCE MAIN 3 - EPSC PLAN STA. 1593+00 TO 1602+00 AND STA. 1602+00 TO 1611+00
	300-CE-320	FORCE MAIN 3 - EPSC PLAN STA. 1611+00 TO 1620+00 AND STA. 1620+00 TO 1629+00
	300-CE-321	FORCE MAIN 3 - EPSC PLAN STA. 1629+00 TO 1638+00 AND STA. 1638+00 TO 1647+00
	300-CE-322	FORCE MAIN 3 - EPSC PLAN STA. 1647+00 TO 1656+00 AND STA. 1656+00 TO 1665+00
	300-CE-323	FORCE MAIN 3 - EPSC PLAN STA. 1665+00 TO 1674+00 AND STA. 1674+00 TO 1683+00
	300-CE-324	FORCE MAIN 3 - EPSC PLAN STA. 1683+00 TO 1692+00 AND STA. 1692+00 TO 1701+00
	300-CE-325	FORCE MAIN 3 - EPSC PLAN STA. 1701+00 TO 1709+00 AND STA. 1709+00 TO 1718+00
	300-CE-326	FORCE MAIN 3 - EPSC PLAN STA. 1718+00 TO 1724+44.59
	300-CE-850	FORCE MAIN 3 - EROSION CONTROL DETAILS
	300-CE-851	FORCE MAIN 3 - EROSION CONTROL DETAILS
	300-CE-852	FORCE MAIN 3 - EROSION CONTROL DETAILS

SOIL EROSION / SEDIMENTATION CONTROL MAINTENANCE SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INSTALL TEMPORARY BMPs			X	X	X	X	X	X				
SITE DEMO/SITE CONSTRUCTION			X	X	X	X	X	X				
FINAL GRADING			X	X	X	X	X	X				
REMOVE TEMPORARY MEASURES						X	X	X	X	X	X	

ANTICIPATED CONSTRUCTION START DATE: MONTH X, XXXX
ANTICIPATED CONSTRUCTION END DATE: MONTH X, XXXX

X = INSPECT WEEKLY OR AFTER EACH RAIN EVENT

EROSION AND SEDIMENT CONTROL NOTES:

1. AN EPSC PLAN HAS BEEN PREPARED FOR THE PROJECT. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE PRACTICES AND MEASURES DESCRIBED IN THE EPSC AND AS DIRECTED BY OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN A PERMIT FROM THE TDEC AS A CO-PERMITTEE UNDER THE PROJECT CONSTRUCTION STORM WATER PERMIT AT LEAST 21 DAYS PRIOR TO INITIATING GROUND-DISTURBING ACTIVITIES. COORDINATE PERMIT WITH OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES (AKA BEST MANAGEMENT PRACTICE MEASURES OR BMP'S) IN ACCORDANCE WITH CONTRACT DOCUMENTS AND TDEC EROSION & SEDIMENT CONTROL HANDBOOK.
4. ANY EROSION AND SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKE AND PONDS.
5. DIRECT ALL DEWATERING ACTIVITIES TO THE STORM SYSTEM. PASS ALL WATER THROUGH A FILTER PRIOR TO OUT LETTING TO THE SYSTEM.
6. ENSURE SOIL AND DEBRIS FROM THE SITE REMAINS ON SITE.
7. CONTROL DUST AT ALL TIMES DURING CONSTRUCTION.
8. SEEDING SHOULD ONLY BE APPLIED ACCORDING TO THE SEEDING SCHEDULE IN THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK AND SPEC SECTION 329200. ALL SEEDED AREAS SHALL BE WATERED, FERTILIZED AND RE-SEEDED AS NECESSARY IN ACCORDANCE WITH SPEC SECTION 329200.
9. ALTERNATIVE METHODS OF SURFACE STABILIZATION, AS APPROVED BY THE PROJECT ENGINEER SHALL BE USED DURING PERIODS NOT FEASIBLE FOR SEEDING AND MULCHING.
10. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON THIS SITE SHALL RECEIVE AND BE FAMILIAR WITH THE PROJECT EPSC AND THESE NOTES. THE CONSTRUCTION MANAGER SHALL MAINTAIN A COPY OF SIGNED RECEIPTS FROM ALL CONTRACTORS AND SUBCONTRACTORS FOR RECEIPT AND REVIEW OF THE EROSION PROTECTION AND SEDIMENT CONTROL PLAN, AND THESE NOTES.
11. ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF ACTIVITIES AT THIS PROJECT, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE EPSC FOR THE SITE, OR OTHER CONDITIONS AS SET FORTH IN THE PERMIT, MUST FILE A CO-PERMITTEE NOI WITH THE TDEC. THIS IS THE SOLE RESPONSIBILITY OF THE CO-PERMITTEE AND SHOULD BE DONE 21 DAYS BEFORE THE GROUND IS BROKEN.
12. CONTRACTOR TO OPEN CUT ONLY AS MUCH HDPE PIPE THAT CAN BE INSTALLED AND BACKFILLED IN A GIVEN DAY WITH SPECIAL EXCEPTION TO HORIZONTAL DIRECTIONAL DRILL AND JACK AND BORE PITS. PITS LEFT OPEN AT THE END OF THE DAY SHALL BE COVERED AND FENCED OFF WITH PROPERLY PROTECTIVE AND EROSION CONTROL MEASURES. IF LEFT OVER NIGHT, LIGHTS SHALL BE INSTALLED ON BARRICADES.
13. THIS PLAN REFLECTS AN INTERPRETATION OF SEDIMENT AND EROSION CONTROL MEASURES APPROPRIATE FOR VARIOUS STAGES OF CONSTRUCTION PROGRESS. THIS PLAN IS NOT INTENDED TO BE INCLUSIVE OF ALL SEDIMENT AND EROSION MEASURES REQUIRED THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING EXISTING AND PROPOSED SITE DRAINAGE SO AS TO IMPLEMENT THE MOST EFFICIENT AND APPROPRIATE METHOD OF EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF CONSTRUCTION. ALL MODIFICATIONS ARE TO BE NOTED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHEETS, SIGNED AND DATED BY THE RESPONSIBLE PARTY.
14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED AS PART OF THIS PROJECT AND RETURNING ALL DISTURBED AREAS BACK TO THEIR ORIGINAL CONDITION. THE CONTRACTOR MAY REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ONLY AFTER THE UPSTREAM WATERSHED HAS BEEN COMPLETELY STABILIZED.

CONSTRUCTION SEQUENCE:

A. RECEIVE PERMIT COVERAGE FROM TDEC

B. CONTRACTOR SHALL NOT OPEN UP ANY MORE DITCH THAN CAN BE BACKFILLED AND STABILIZED IN 1 WORKING DAY. THIS WILL NEGATE THE NEED FOR THE INSTALLATION OF EROSION CONTROL MEASURES UNDER NORMAL CIRCUMSTANCES. UNDER UNCOMMON CIRCUMSTANCES, CONTRACTOR SHALL USE THE STANDARDS SET FORTH BY THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK.

C. CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AT ALL BORE LOCATIONS.

D. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AFTER FULL ESTABLISHMENT OF VEGETATION.

E. SUBMIT NOTICE OF TERMINATION, (NOT).

EPSC MAINTENANCE SCHEDULE NOTES

A CONTRACTOR / INSPECTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENT CONTROL DEVICES ONCE EACH WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NPDES REQUIREMENTS. IMPLEMENT THE FOLLOWING STEPS IF ANY DAMAGE HAS RESULTED FROM CONSTRUCTION OR WEAR.

1. INSPECT INLET FILTERS FOR BUILD-UP OF SILT AND OTHER DEBRIS. EXCESSIVE BUILD-UP IS EVIDENT IF GEOTEXTILE IS CAUSING FLOODING. MAINTENANCE CONSISTS OF REMOVING ALL SEDIMENT WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTER IS BEYOND THIS LEVEL OF REPAIR, IT MAY BE NECESSARY TO REPLACE THE GEOTEXTILE FILTER FABRIC.
2. PREPARE EROSION CONTROL SEEDING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR / INSPECTOR SHALL INSPECT THE AREA AFTER SEEDING IS COMPLETED. REPAIR AREAS THAT ARE BARE OR NOT MULCHED PROPERLY BY SPOT SEEDING AND / OR RE-MULCHING.
3. MAINTAIN DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON HAUL ROADS, ON-SITE DISTURBED AREAS, OR OTHER PLACES WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION EFFORTS.
4. PROMPTLY REMOVE ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE.
5. SILTATION CONTROL FENCE SHOULD BE TRENCHED IN, BACKFILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE. CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO REINSTALL IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.

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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

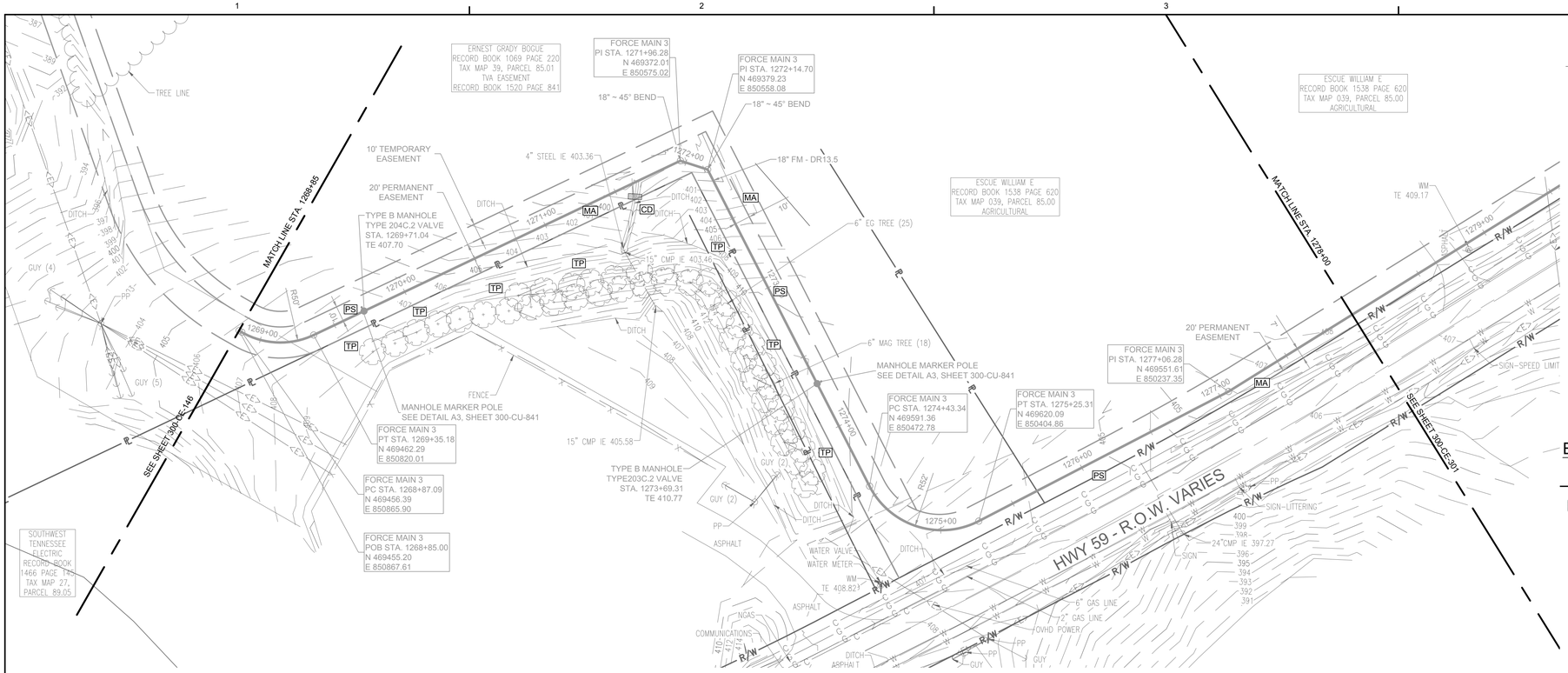
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLANS SHEET LAYOUT AND INDEX

DRAWING NO:
300-CE-300

C:\dgn\022100\300-CE-300.dwg
DATE: Mar 09, 2017 - 8:25pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1268+85.00 TO 1278+00.00

SCALE: 1" = 40'



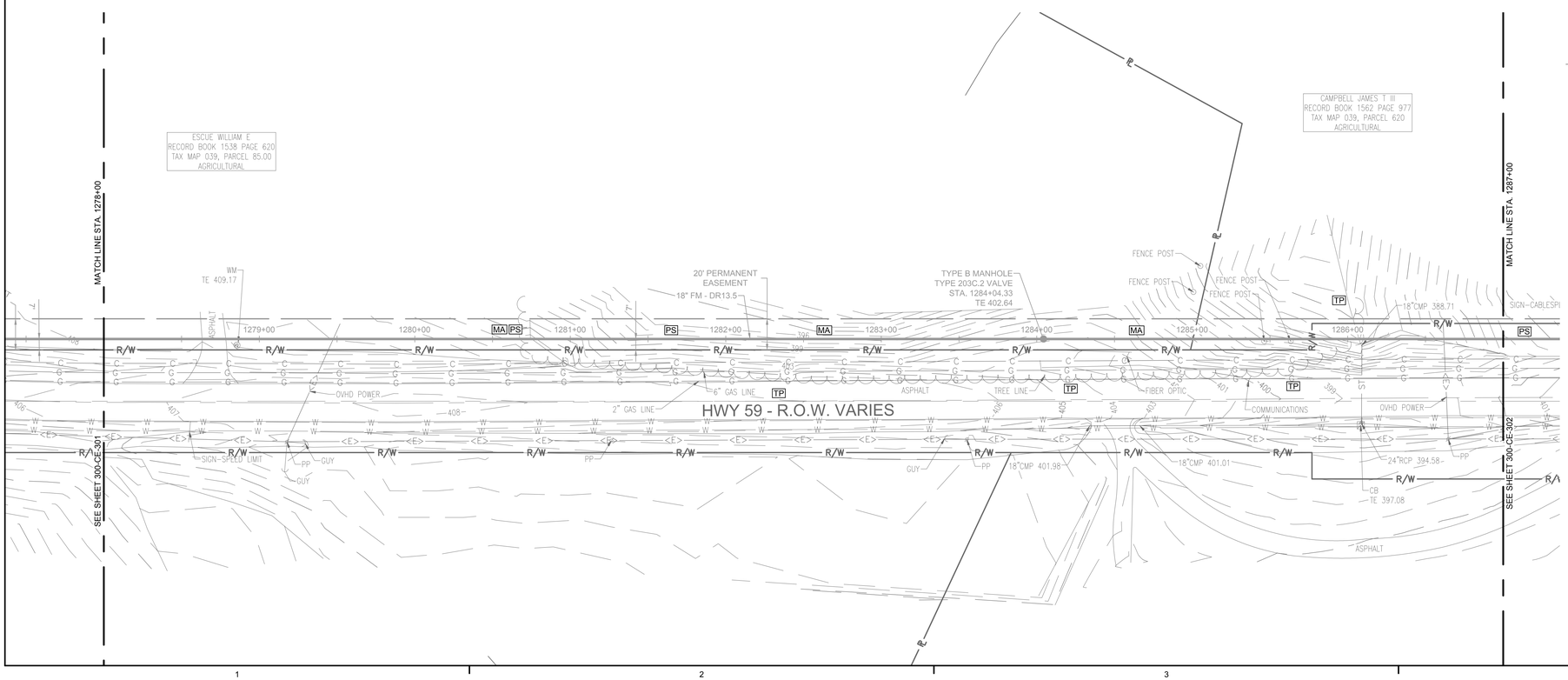
EPSC LEGEND

PS	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
SF	SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
CD	CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
FR	FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
MA	EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
TP	TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
IP	INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1278+00.00 TO 1287+00.00

SCALE: 1" = 40'



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Nashville, Tennessee
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www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1268+85.00 TO 1278+00.00
STA. 1278+00.00 TO 1287+00.00

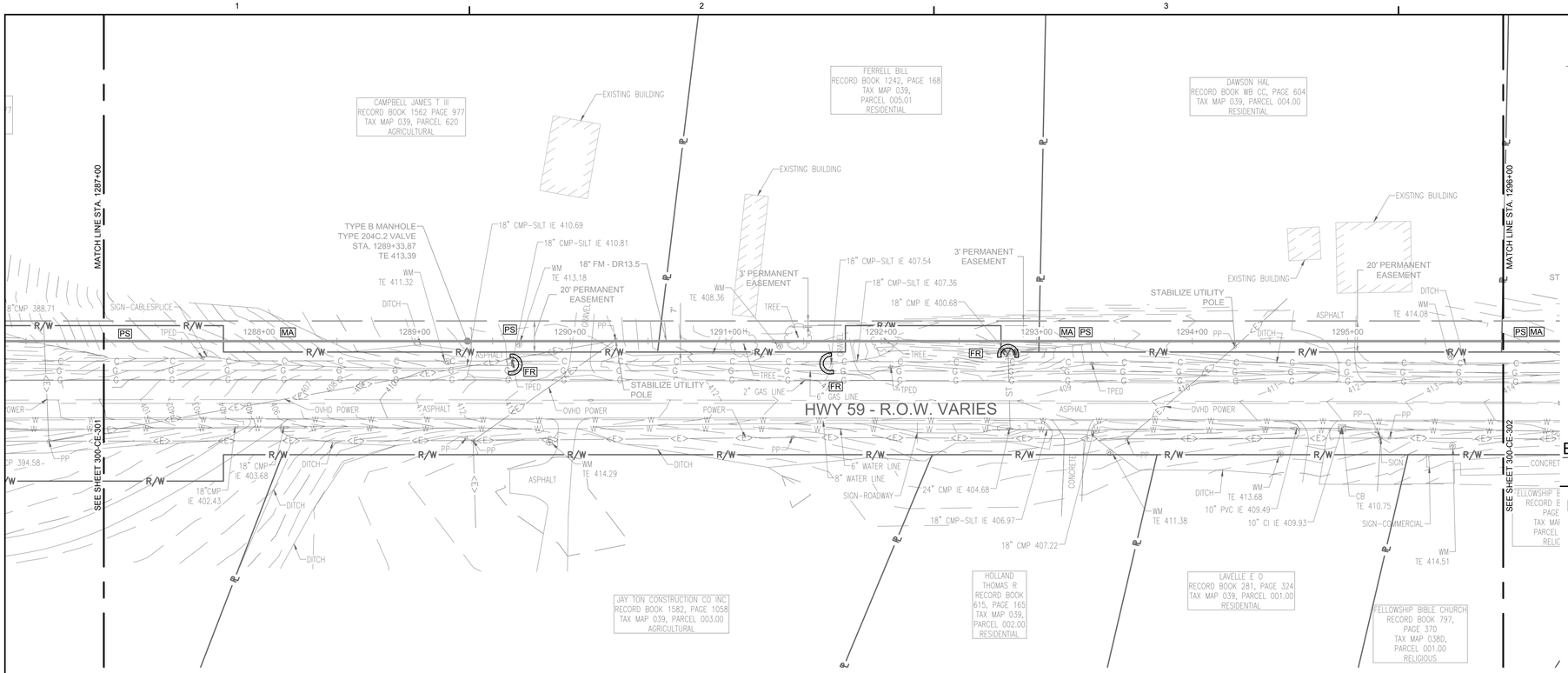
DRAWING NO:
300-CE-301

C:\dgn\d221\900\300-CE-301.dwg
DATE: Mar 08, 2017 - 8:27pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1287+00.00 TO 1296+00.00

SCALE: 1" = 40'

0' 40' 80' 120'
GRAPHIC SCALE : 1" = 40'



EPSC LEGEND

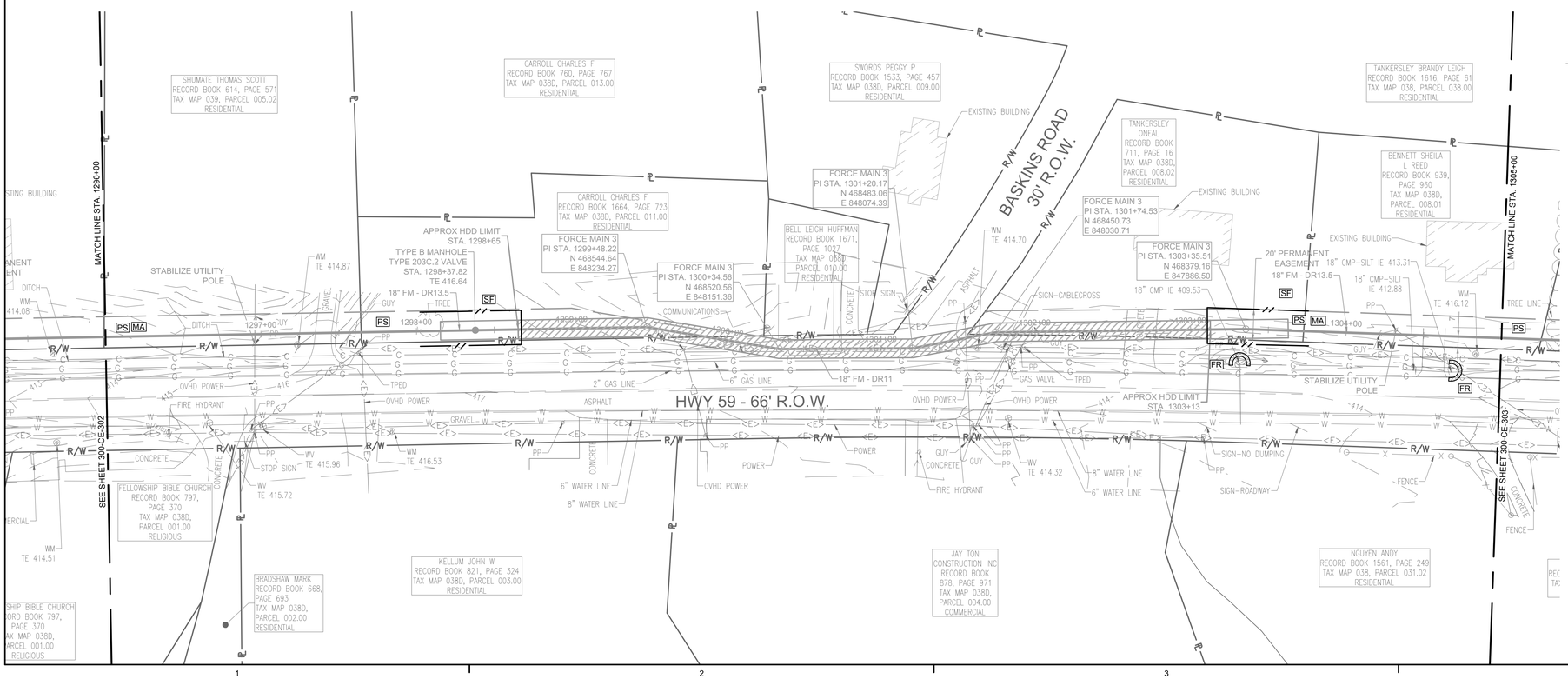
PS	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
SF	SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
CD	CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
FR	FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
MA	EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
TP	TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
IP	INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1296+00.00 TO 1305+00.00

SCALE: 1" = 40'

0' 40' 80' 120'
GRAPHIC SCALE : 1" = 40'



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PROJECT MANAGER:	D. HIBDON
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CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1287+00.00 TO 1296+00.00
STA. 1296+00.00 TO 1305+00.00

DRAWING NO:
300-CE-302

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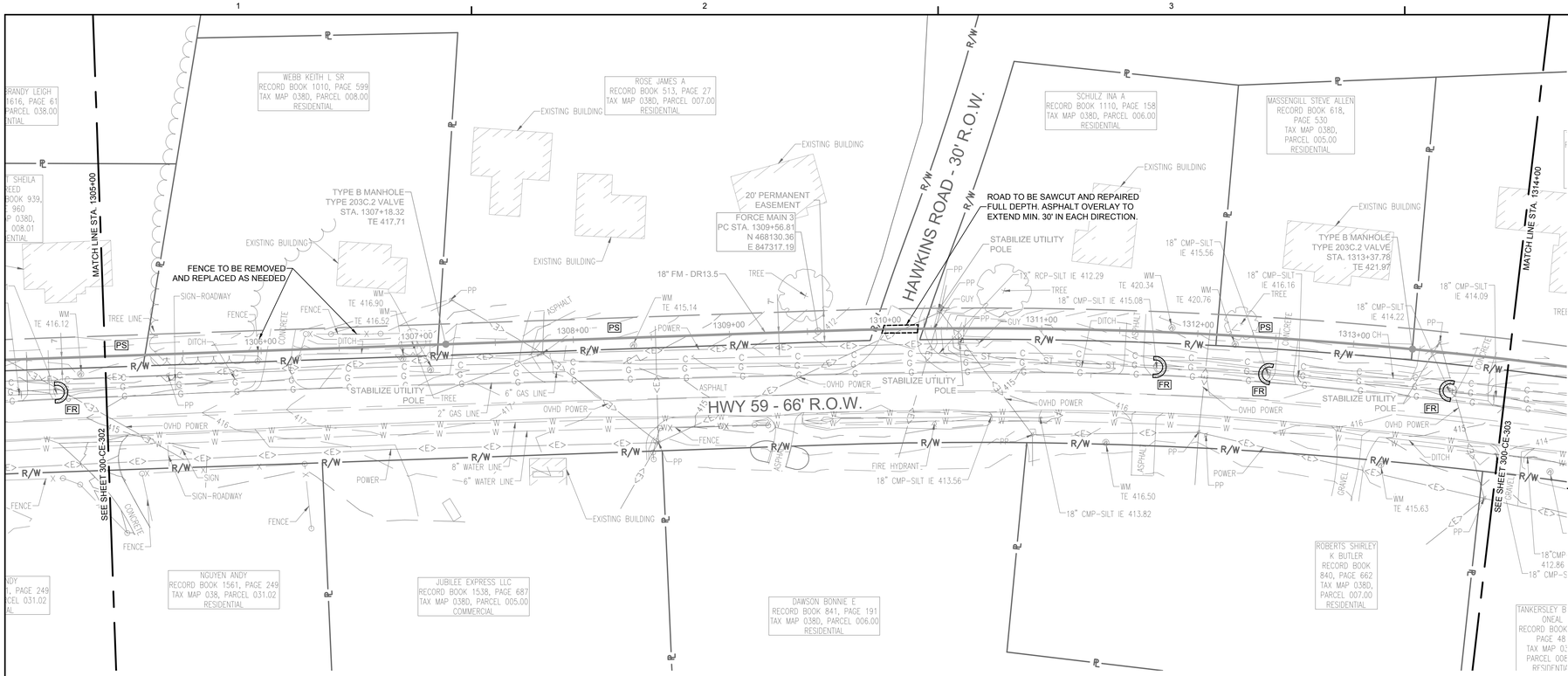
DATE: Mar 08, 2017 - 8:30pm USER: 15733

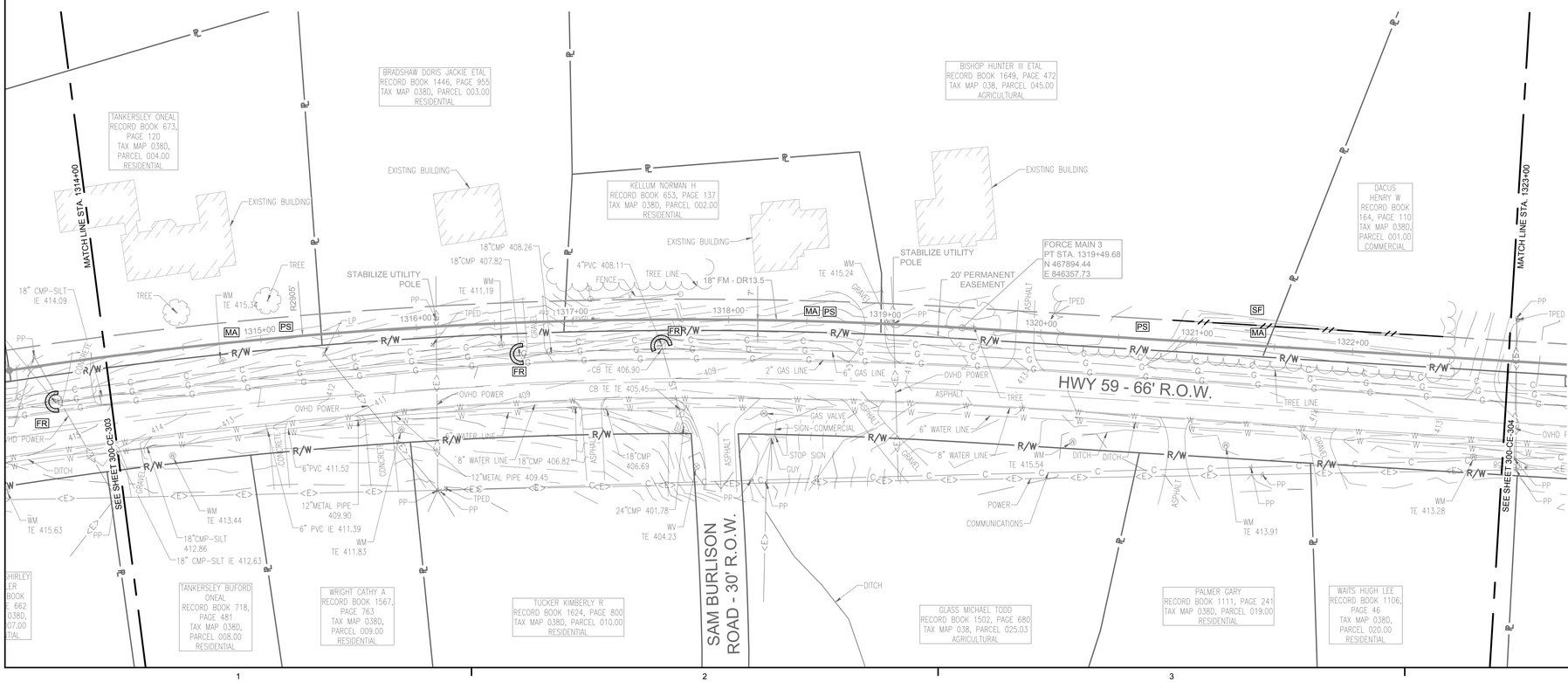


FORCE MAIN 3 - EPSC PLAN
STA. 1305+00.00 TO 1314+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'



FORCE MAIN 3 - EPSC PLAN
STA. 1314+00.00 TO 1323+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

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DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1305+00.00 TO 1314+00.00
STA. 1314+00.00 TO 1323+00.00

DRAWING NO:
300-CE-303

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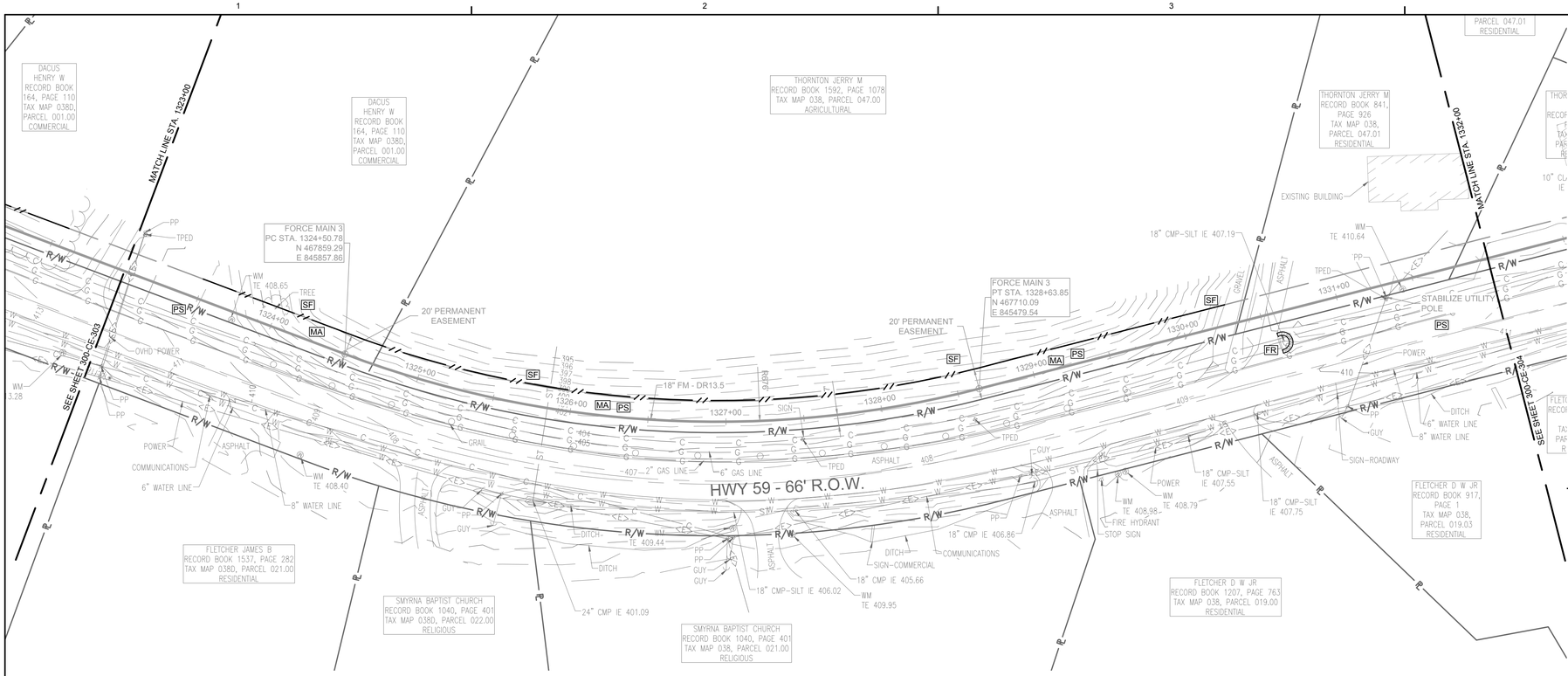
DATE: Mar 08, 2017 - 8:33pm USER: 15733



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- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
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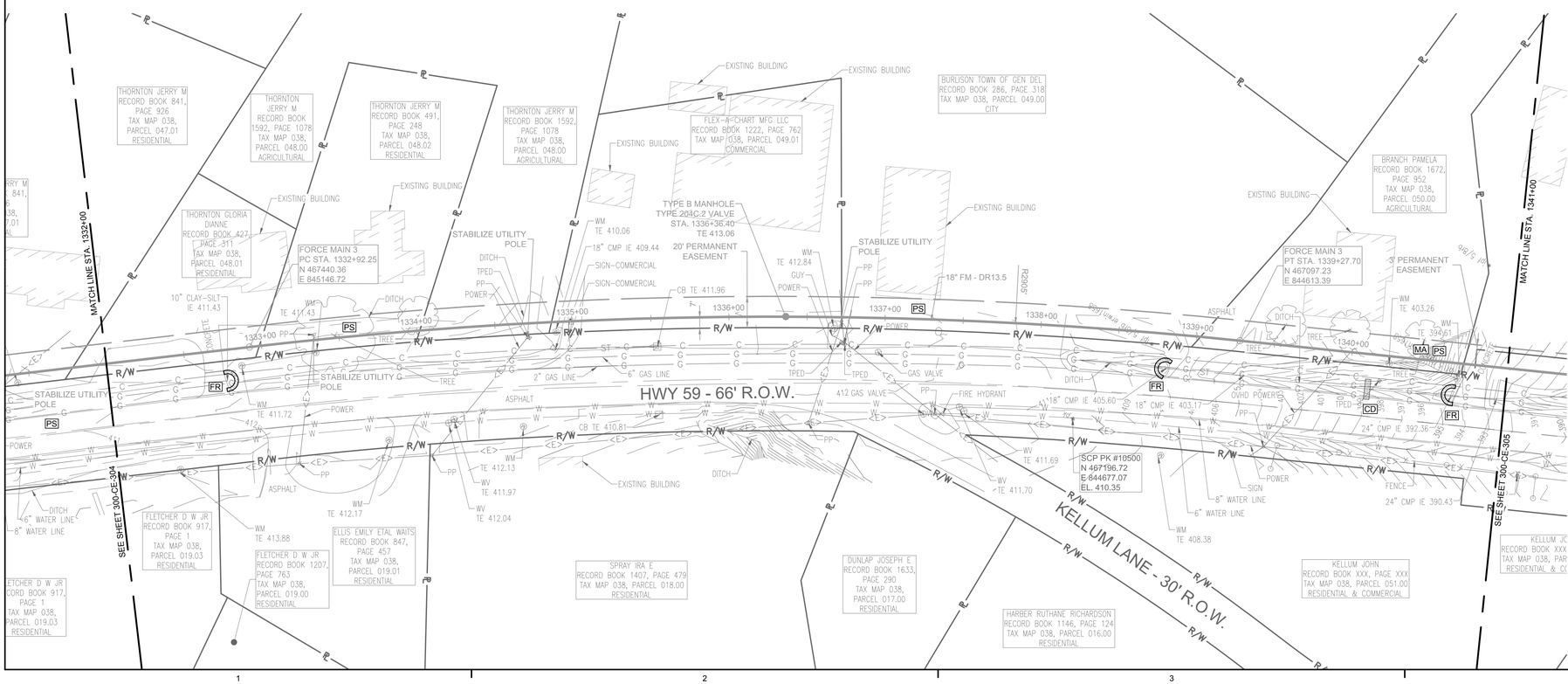
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.



Know what's below. Call before you dig.

ssoe®

CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

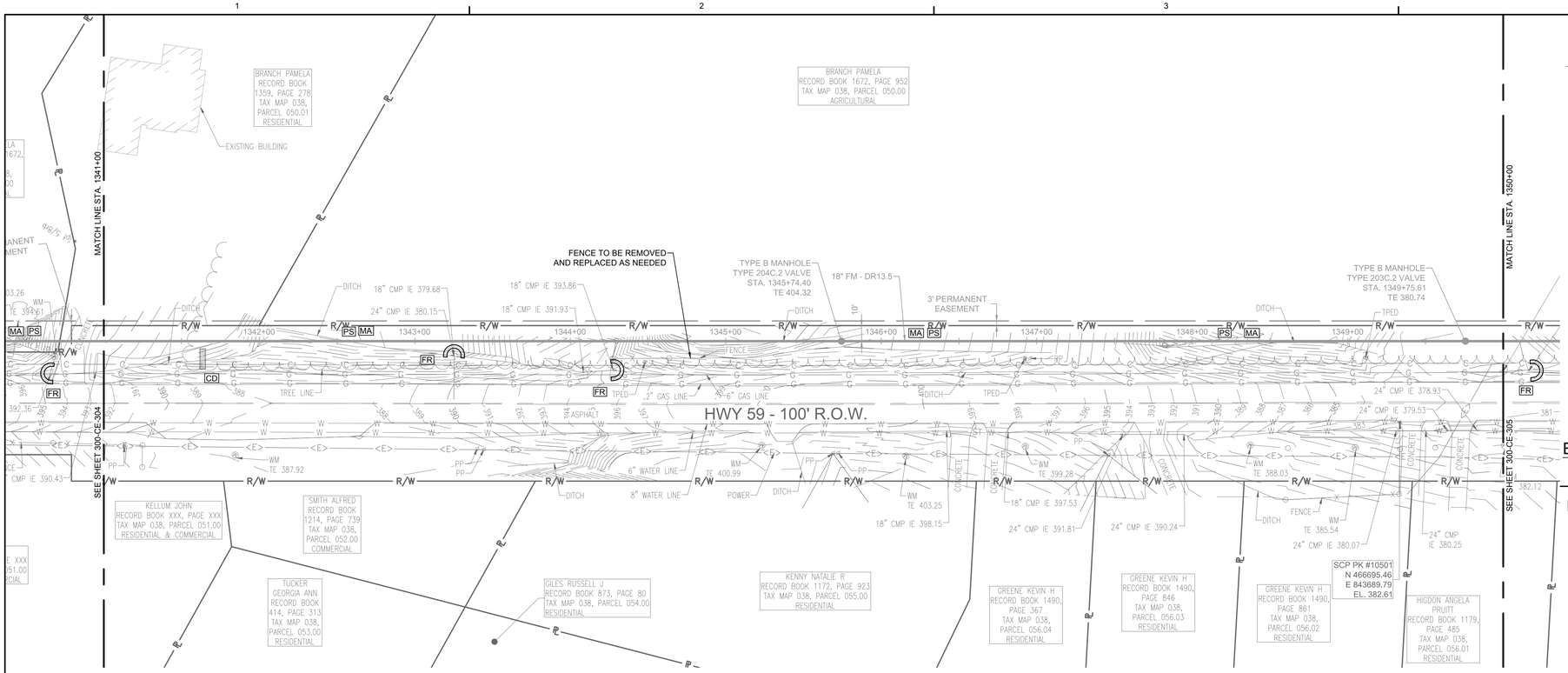
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1323+00.00 TO 1332+00.00
STA. 1332+00.00 TO 1341+00.00

DRAWING NO:
300-CE-304

C:\dgn\d2221\900\300-CE-304.dwg
DATE: Mar 09, 2017 - 8:36pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1341+00.00 TO 1350+00.00

SCALE: 1" = 40'



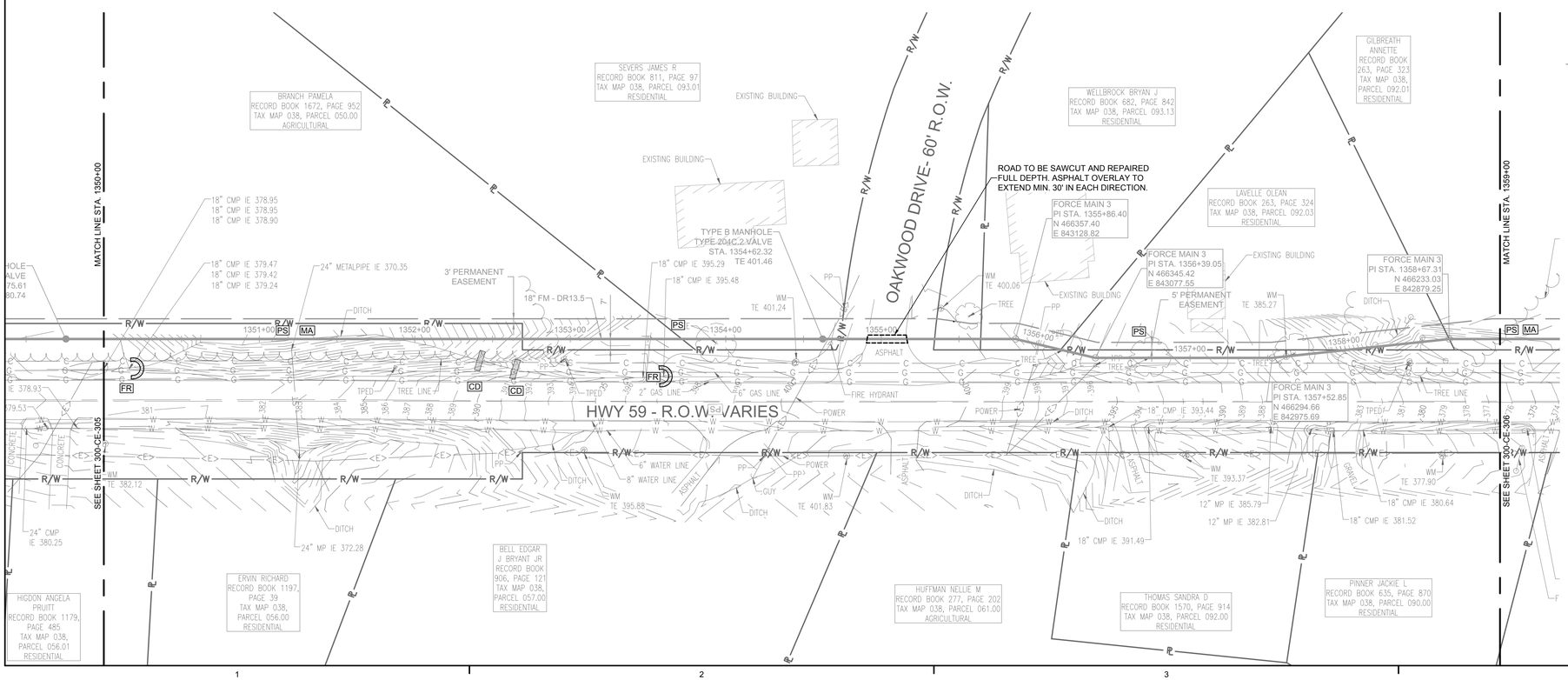
EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1350+00.00 TO 1359+00.00

SCALE: 1" = 40'



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CONSULTANTS:

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Nashville, Tennessee
(615)883-3243
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NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

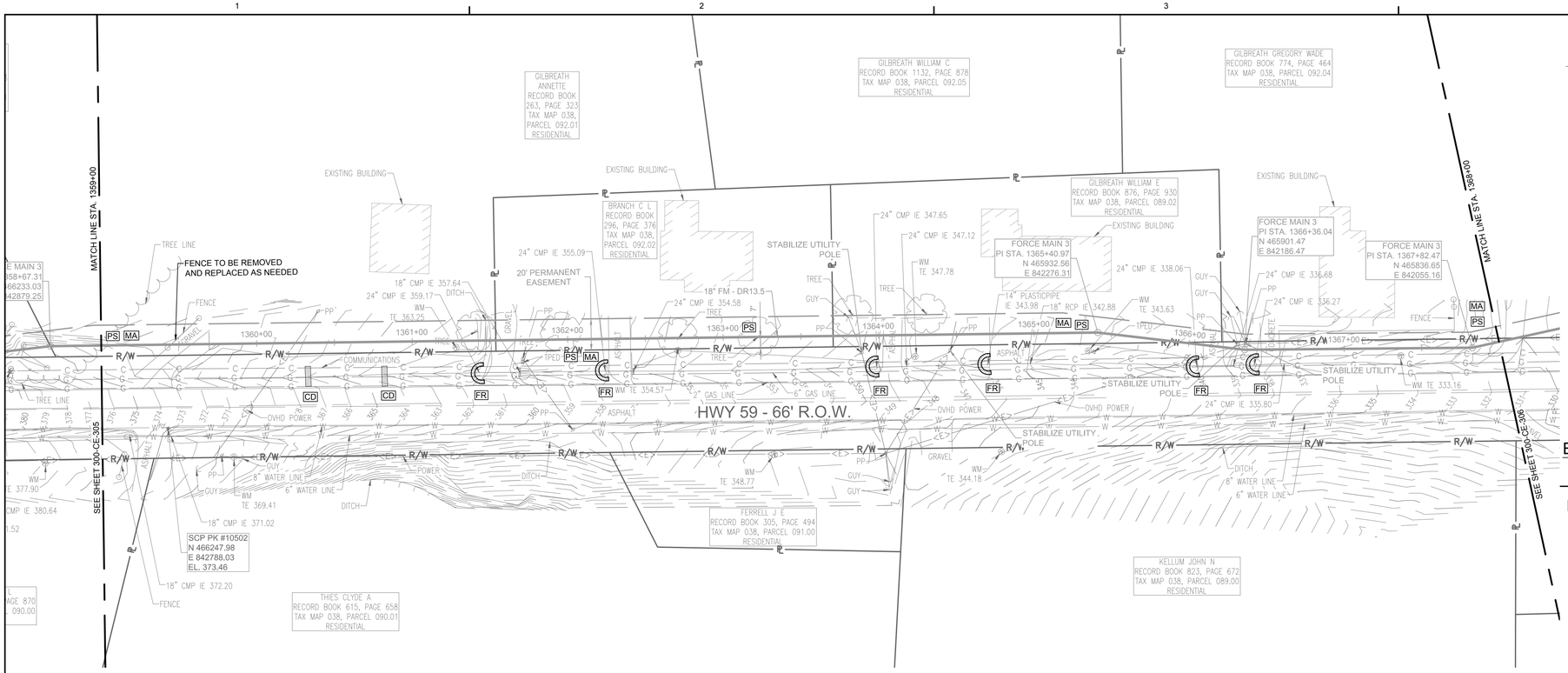
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1341+00.00 TO 1350+00.00
STA. 1350+00.00 TO 1359+00.00

DRAWING NO:
300-CE-305

C:\dgn\d2221900\300-CE-305.dwg
DATE: Mar 08, 2017 - 8:39pm USER: 15733

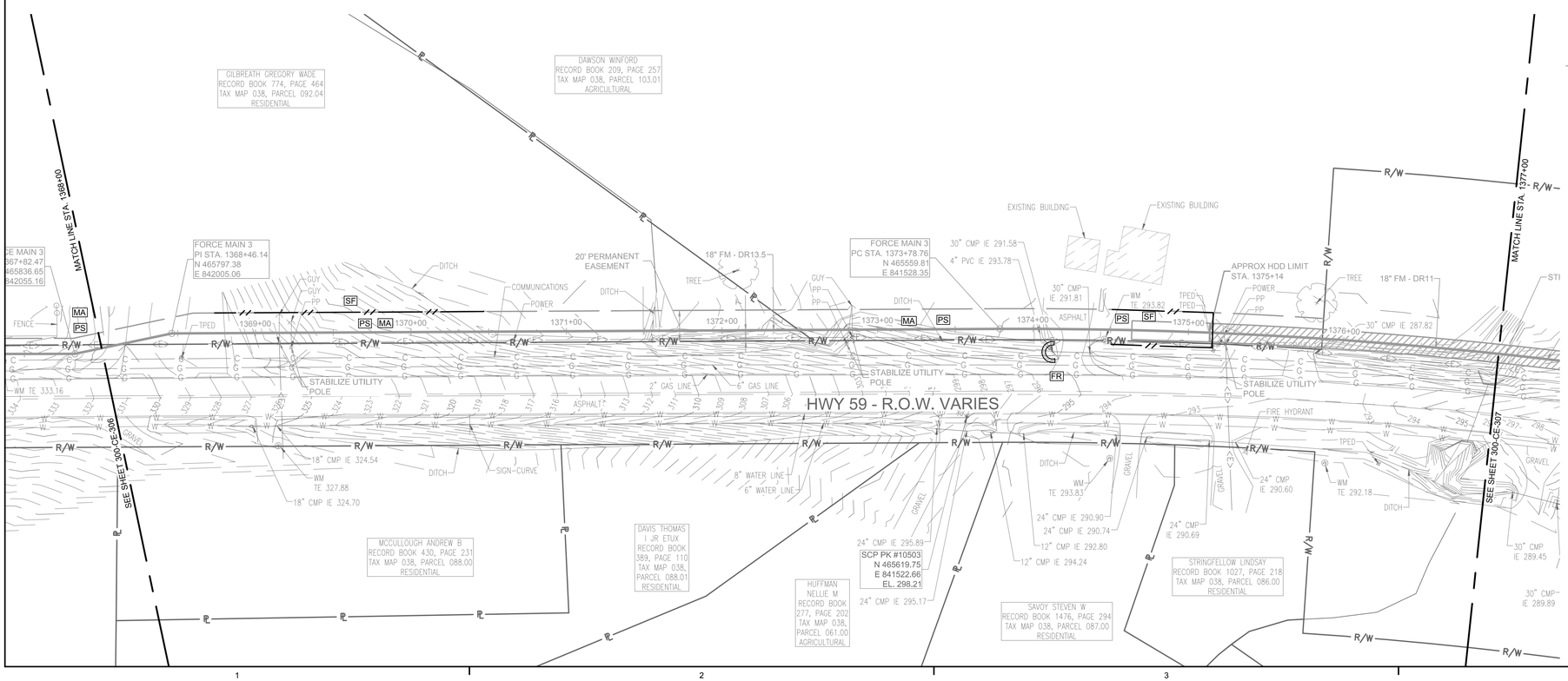
FORCE MAIN 3 - EPSC PLAN
STA. 1359+00.00 TO 1368+00.00

SCALE: 1" = 40'



FORCE MAIN 3 - EPSC PLAN
STA. 1368+00.00 TO 1377+00.00

SCALE: 1" = 40'



EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

Know what's below. Call before you dig.

SSOE

CONSULTANTS:

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www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1359+00.00 TO 1368+00.00
STA. 1368+00.00 TO 1377+00.00

DRAWING NO:
300-CE-306

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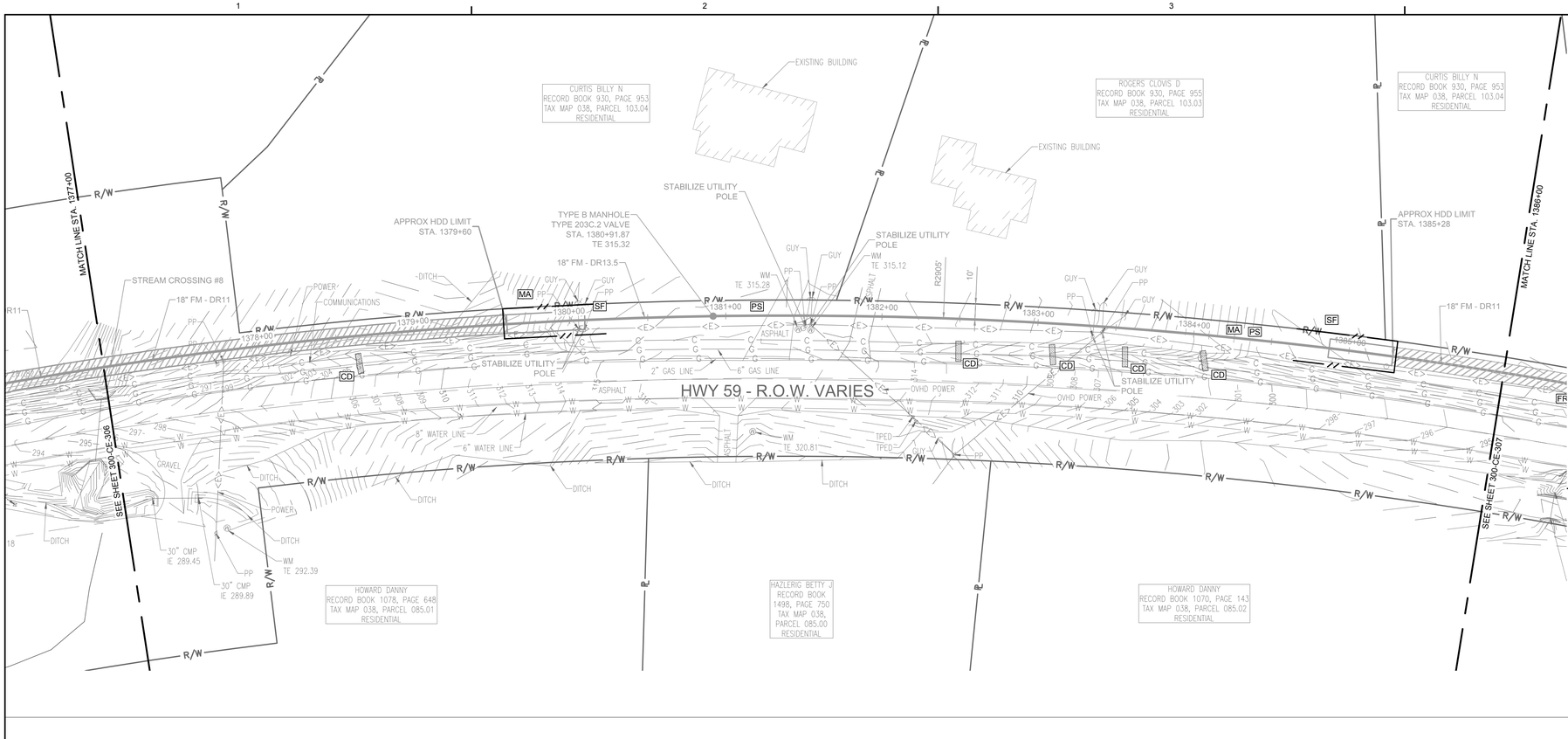
DATE: Mar 09, 2017 - 8:42pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1377+00.00 TO 1386+00.00

SCALE: 1" = 40'

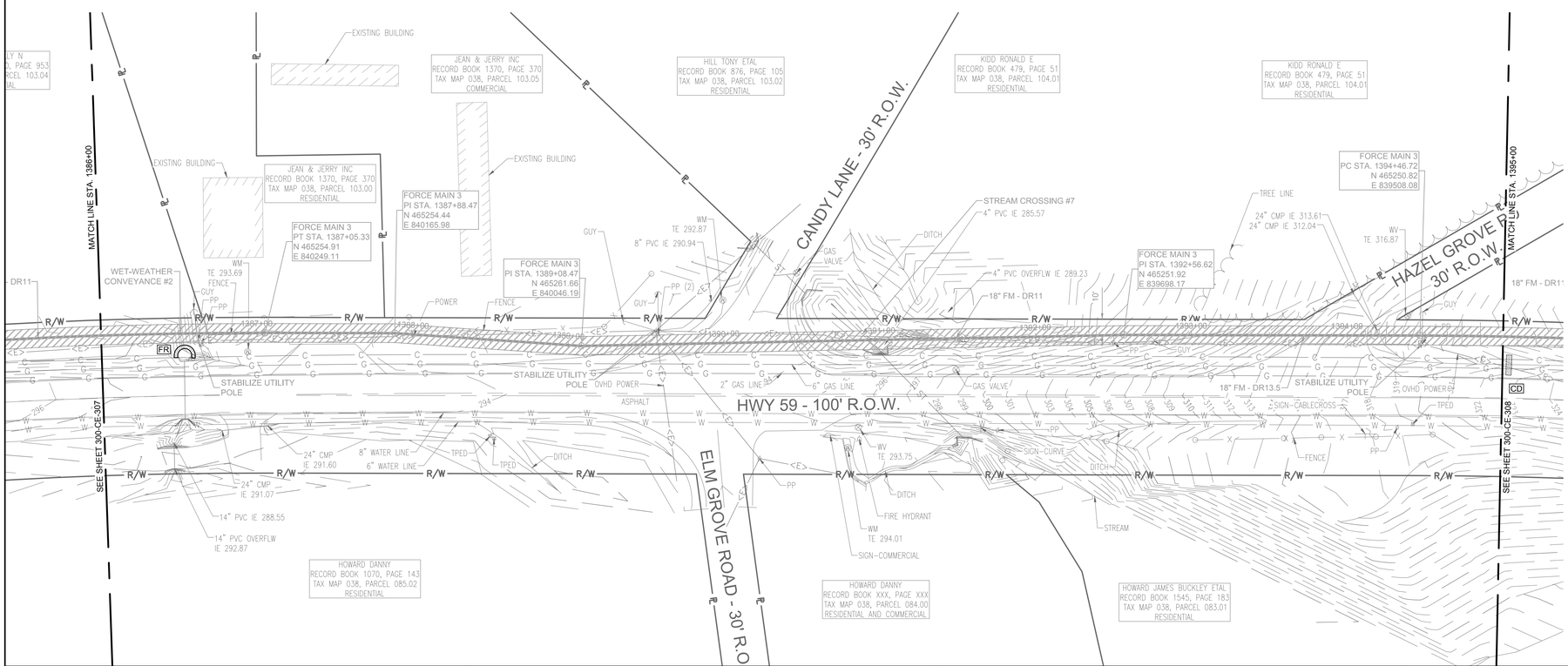
0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.



FORCE MAIN 3 - EPSC PLAN
STA. 1386+00.00 TO 1395+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

811 Know what's below. Call before you dig.

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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

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03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1377+00.00 TO 1386+00.00
STA. 1386+00.00 TO 1395+00.00

DRAWING NO:
300-CE-307

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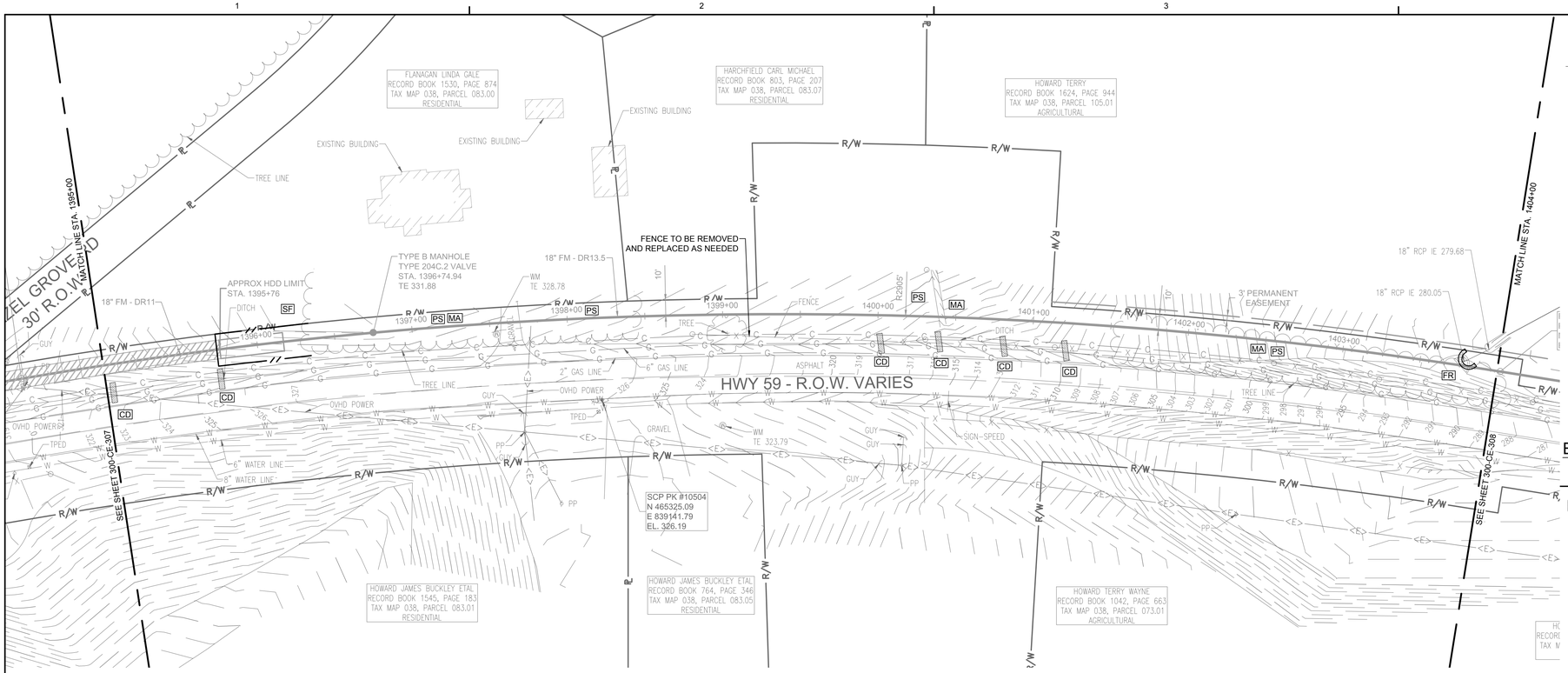
DATE: Mar 09, 2017 - 8:45pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1395+00.00 TO 1404+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
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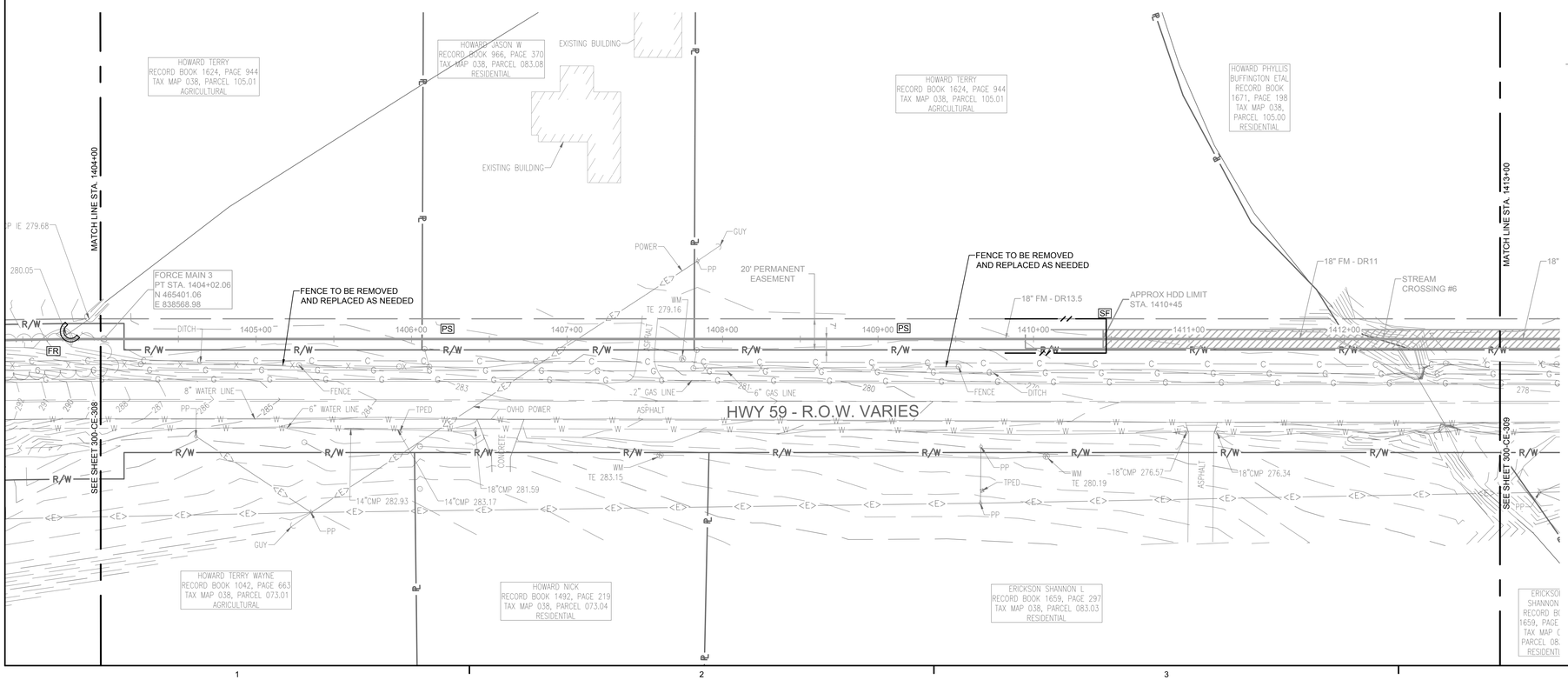
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.



FORCE MAIN 3 - EPSC PLAN
STA. 1404+00.00 TO 1413+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1395+00.00 TO 1404+00.00
STA. 1404+00.00 TO 1413+00.00

DRAWING NO:
300-CE-308

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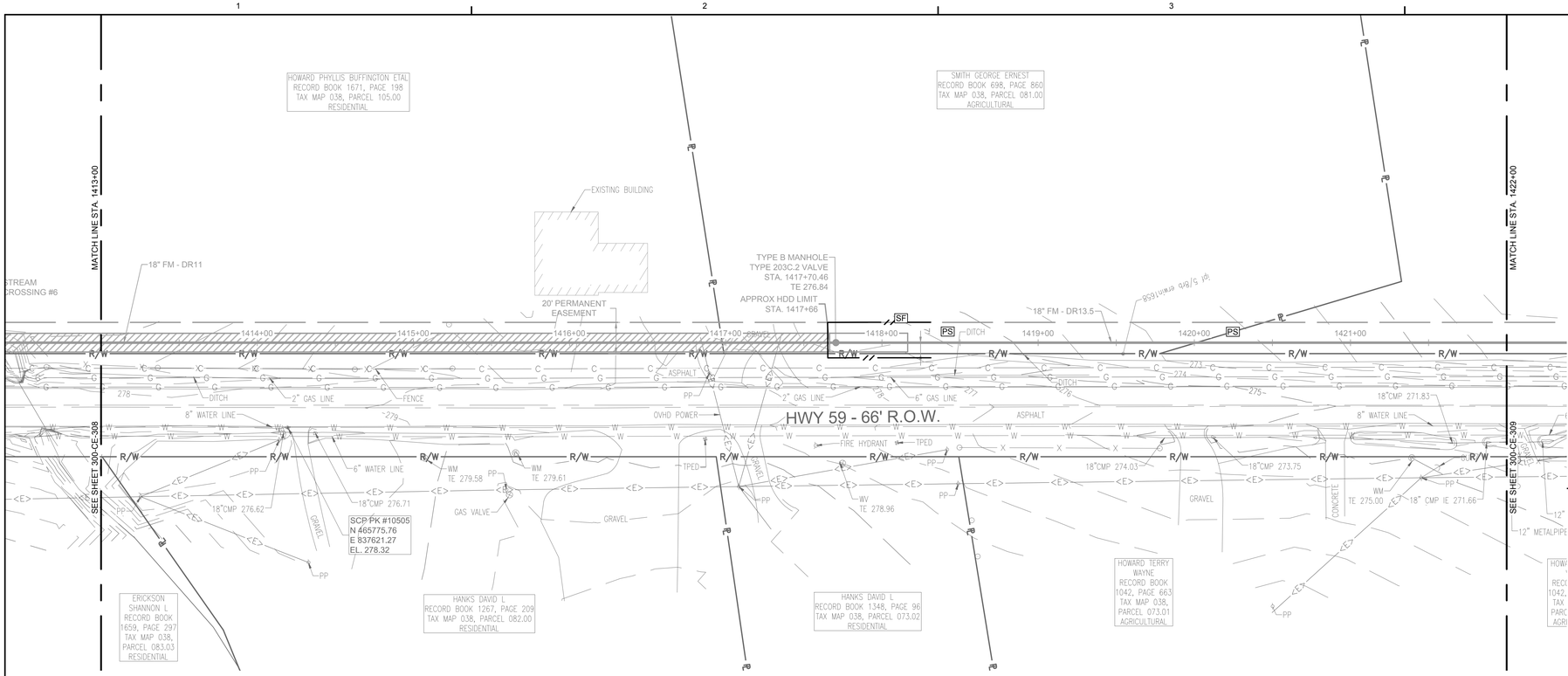
DATE: Mar 09, 2017 - 8:48am USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1413+00.00 TO 1422+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
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- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

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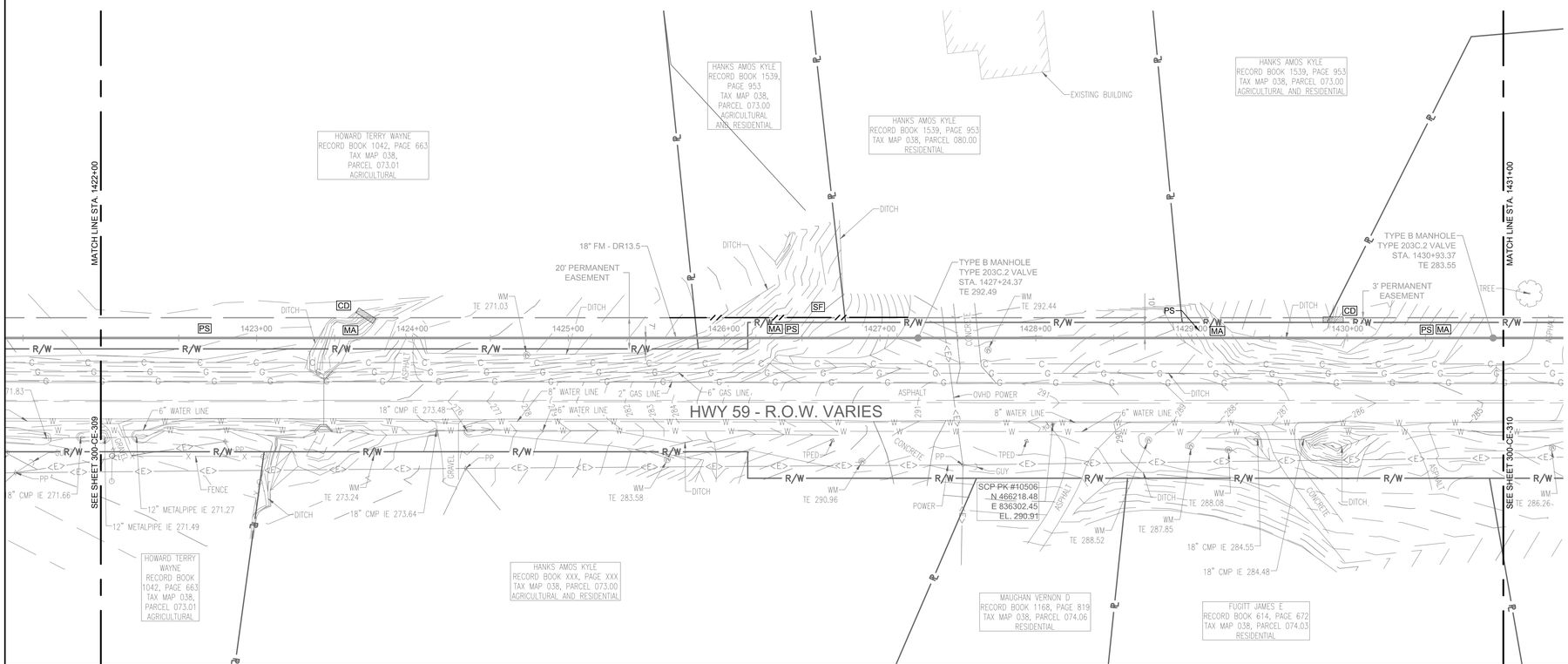

FORCE MAIN 3 - EPSC PLAN
STA. 1422+00.00 TO 1431+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'

Know what's below. Call before you dig.

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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

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03/20/2017
SSOE, INC.

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SEAL ID: FULL NAME AND LICENSE NUMBER
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PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1413+00.00 TO 1422+00.00
STA. 1422+00.00 TO 1431+00.00

DRAWING NO:
300-CE-309

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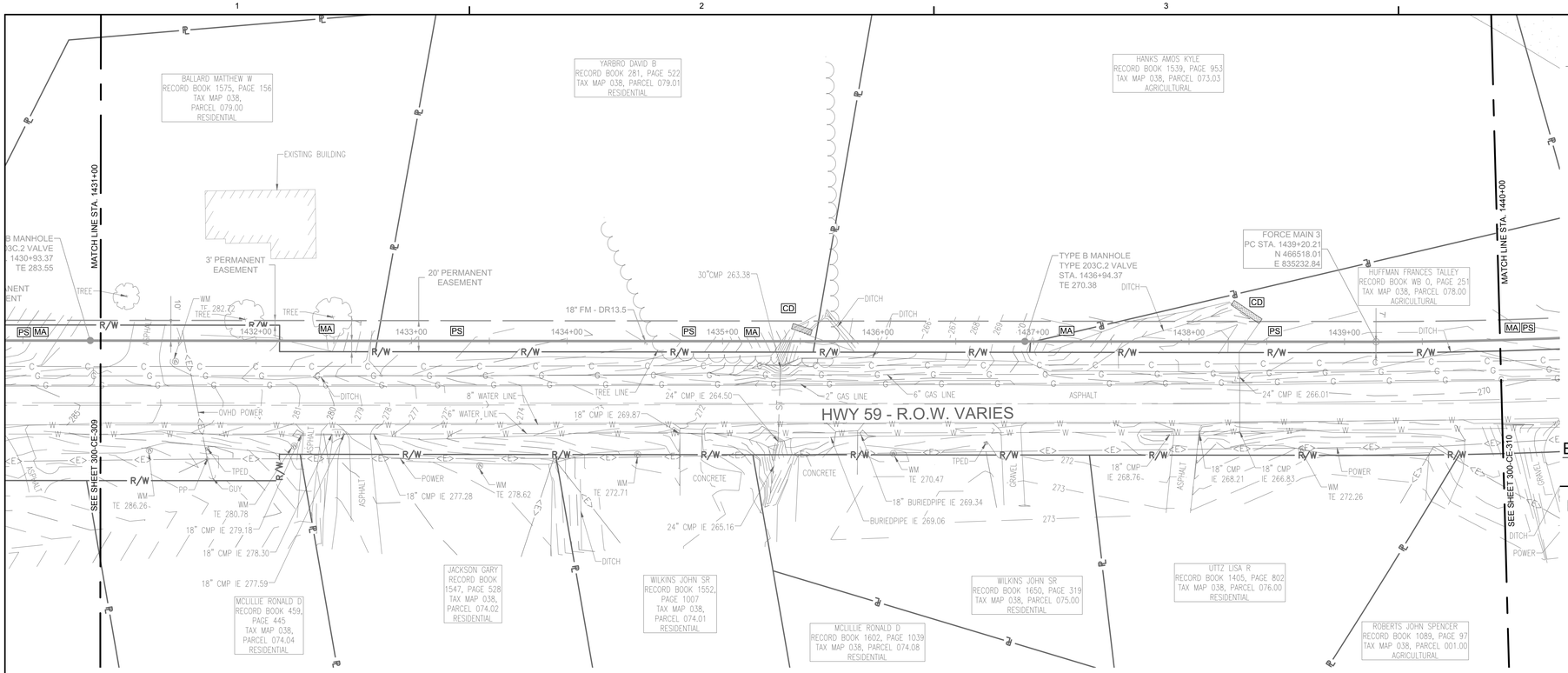
DATE: Mar 08, 2017 - 8:51pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1431+00.00 TO 1440+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
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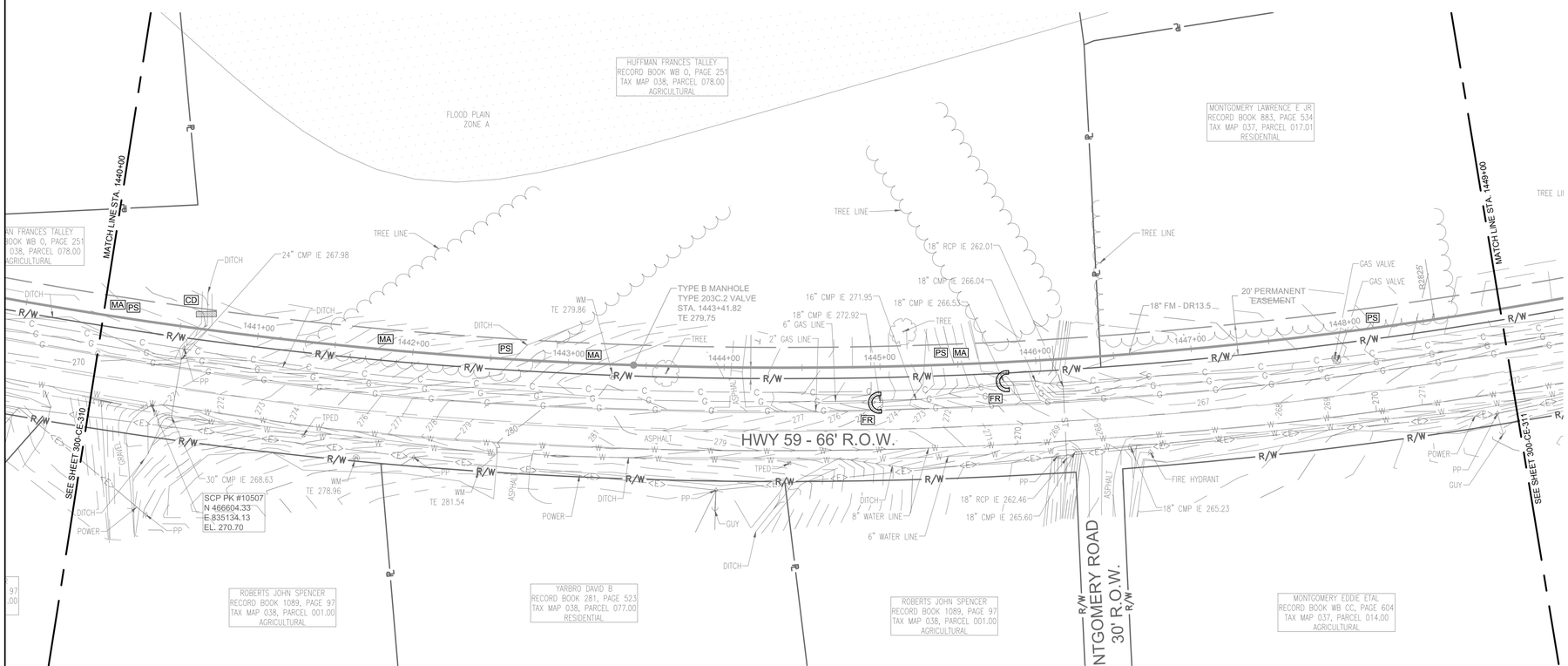

FORCE MAIN 3 - EPSC PLAN
STA. 1440+00.00 TO 1449+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

811 Know what's below. Call before you dig.

SSOE

CONSULTANTS:

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Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

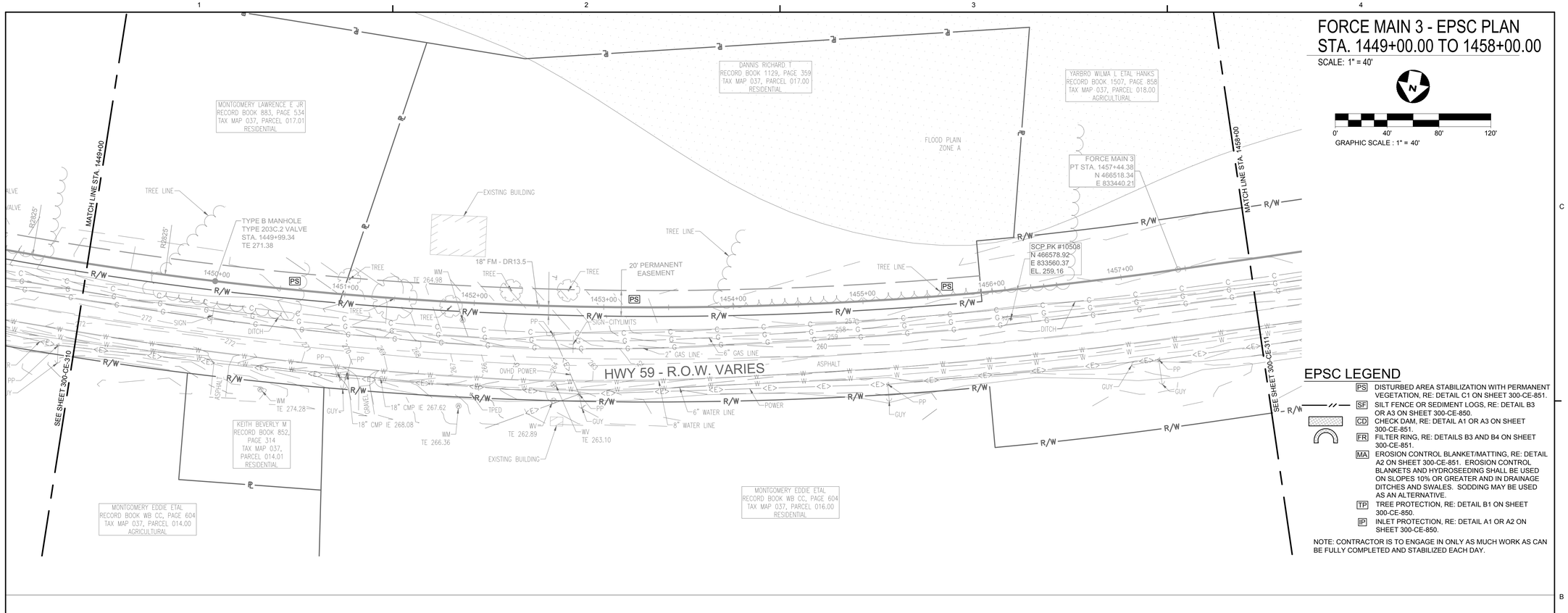
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1431+00.00 TO 1440+00.00
STA. 1440+00.00 TO 1449+00.00

DRAWING NO:
300-CE-310

C:\dgn\d2221\900\300-CE-310.dwg
DATE: Mar 08, 2017 - 8:54pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1449+00.00 TO 1458+00.00

SCALE: 1" = 40'



EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
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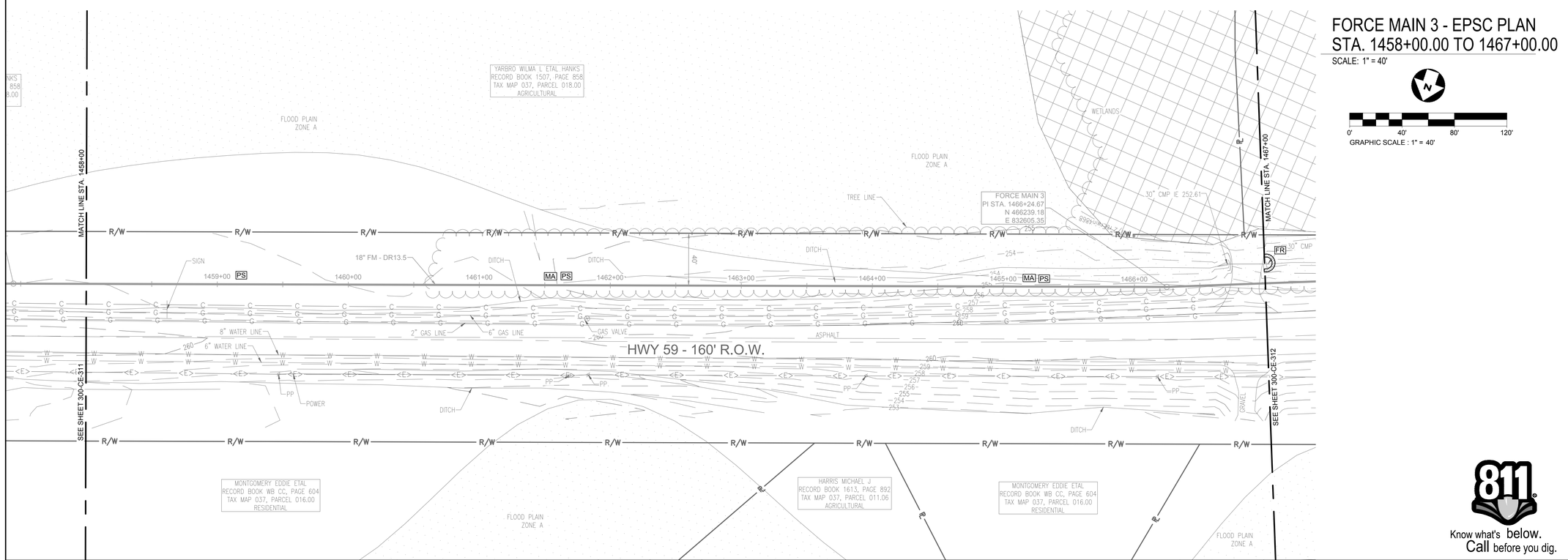
FORCE MAIN 3 - EPSC PLAN
STA. 1458+00.00 TO 1467+00.00

SCALE: 1" = 40'



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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

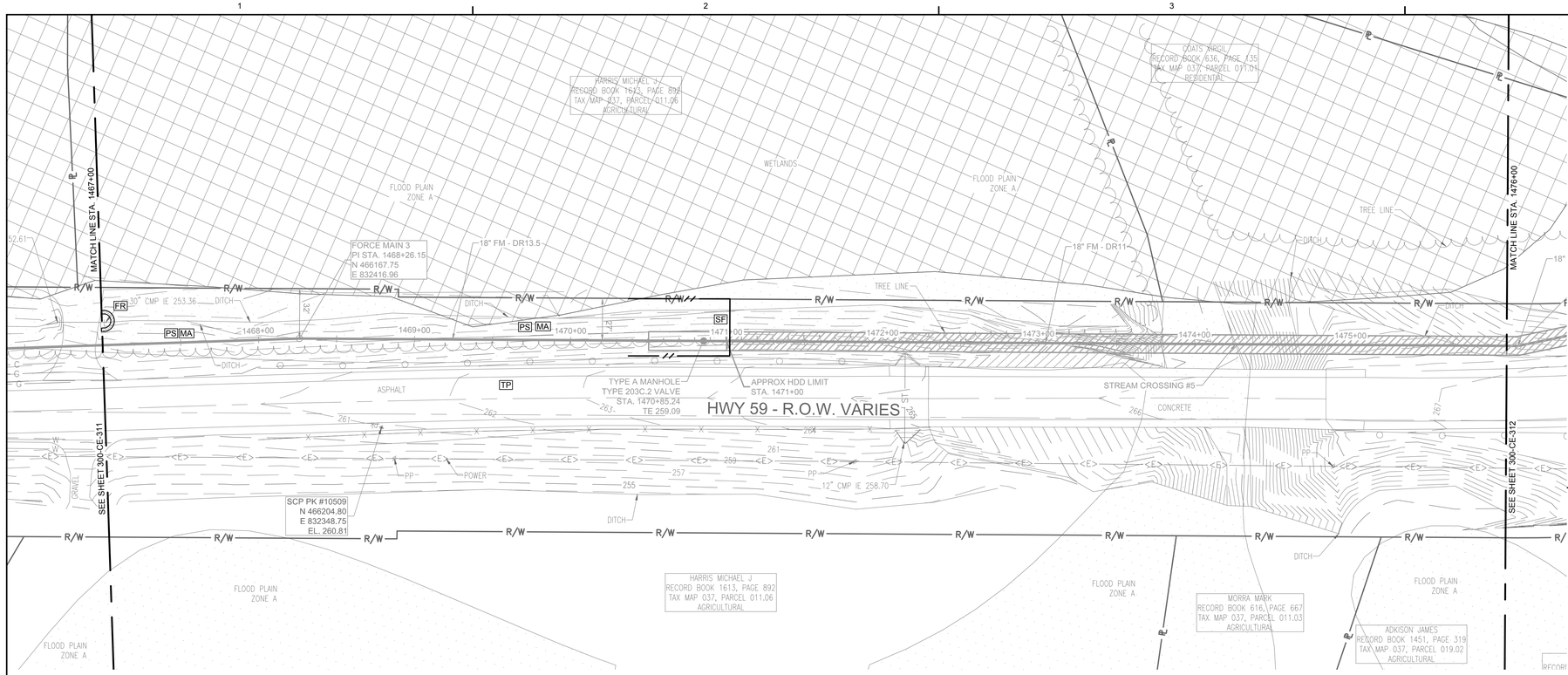
SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1449+00.00 TO 1458+00.00
STA. 1458+00.00 TO 1467+00.00

DRAWING NO:
300-CE-311

C:\dgn\d221\900\300-CE-311.dwg
DATE: Mar 08, 2017 - 8:57pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1467+00.00 TO 1476+00.00

SCALE: 1" = 40'

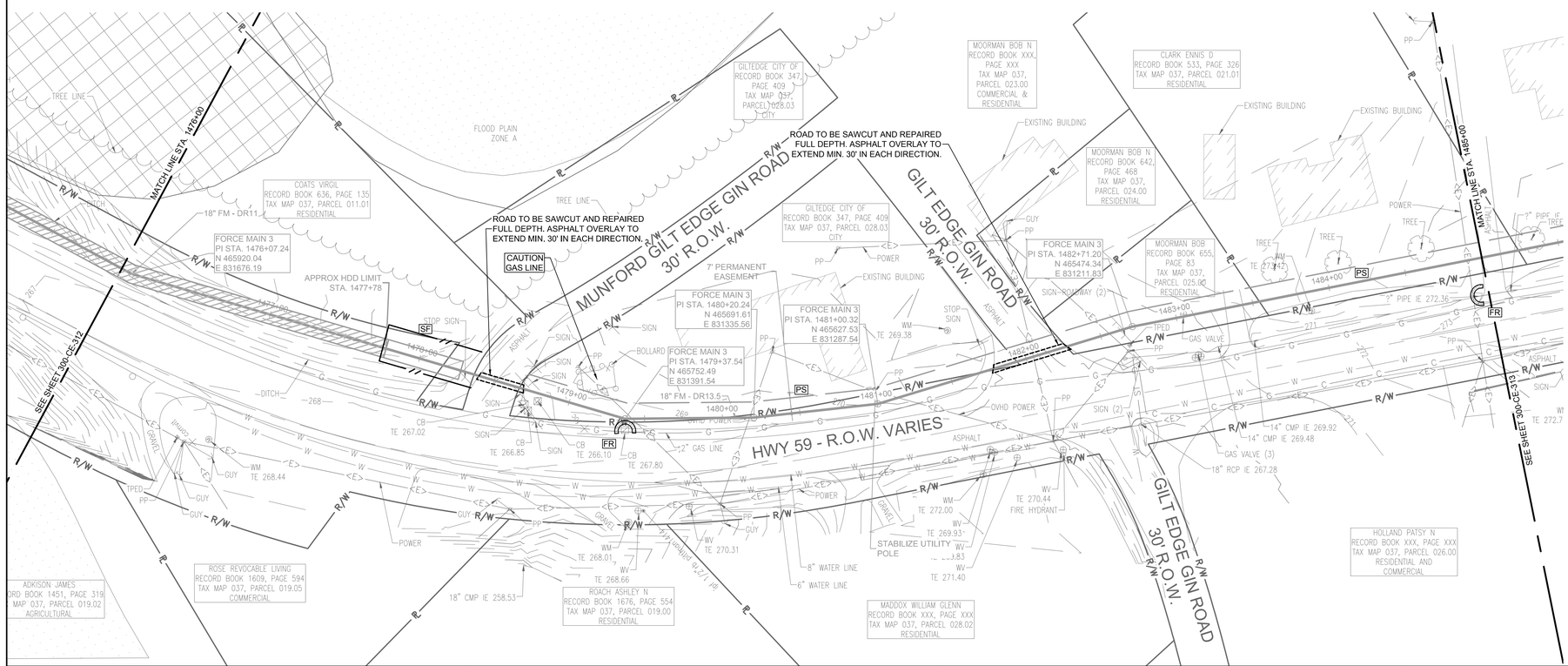
0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.



FORCE MAIN 3 - EPSC PLAN
STA. 1476+00.00 TO 1485+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

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CONSULTANTS:

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03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

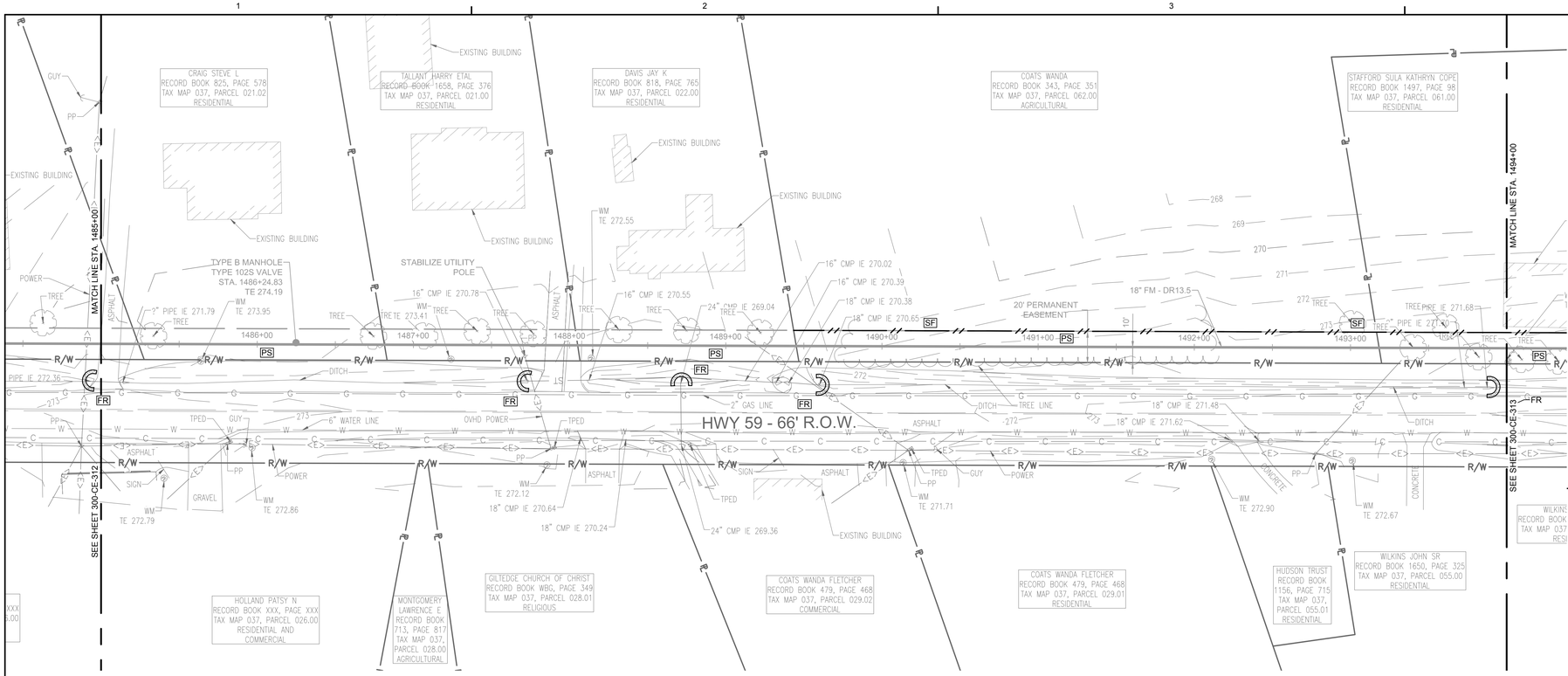
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1467+00.00 TO 1476+00.00
STA. 1476+00.00 TO 1485+00.00

DRAWING NO:
300-CE-312

C:\dgn\d221\900\300-CE-312.dwg
DATE: Mar 09, 2017 - 9:00pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1485+00.00 TO 1494+00.00

SCALE: 1" = 40'



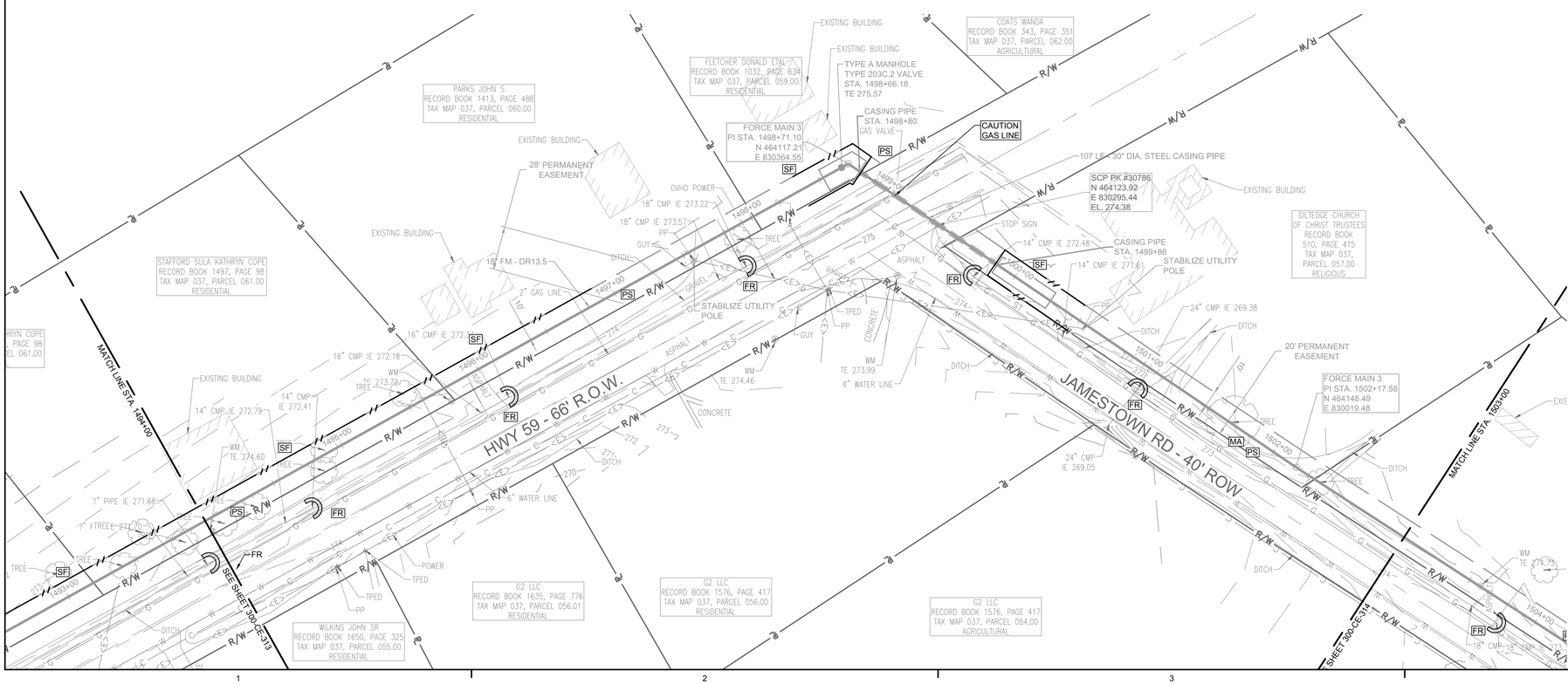
EPSC LEGEND

PS	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
SF	SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
CD	CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
FR	FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
MA	EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
TP	TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
IP	INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1494+00.00 TO 1503+00.00

SCALE: 1" = 40'



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SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

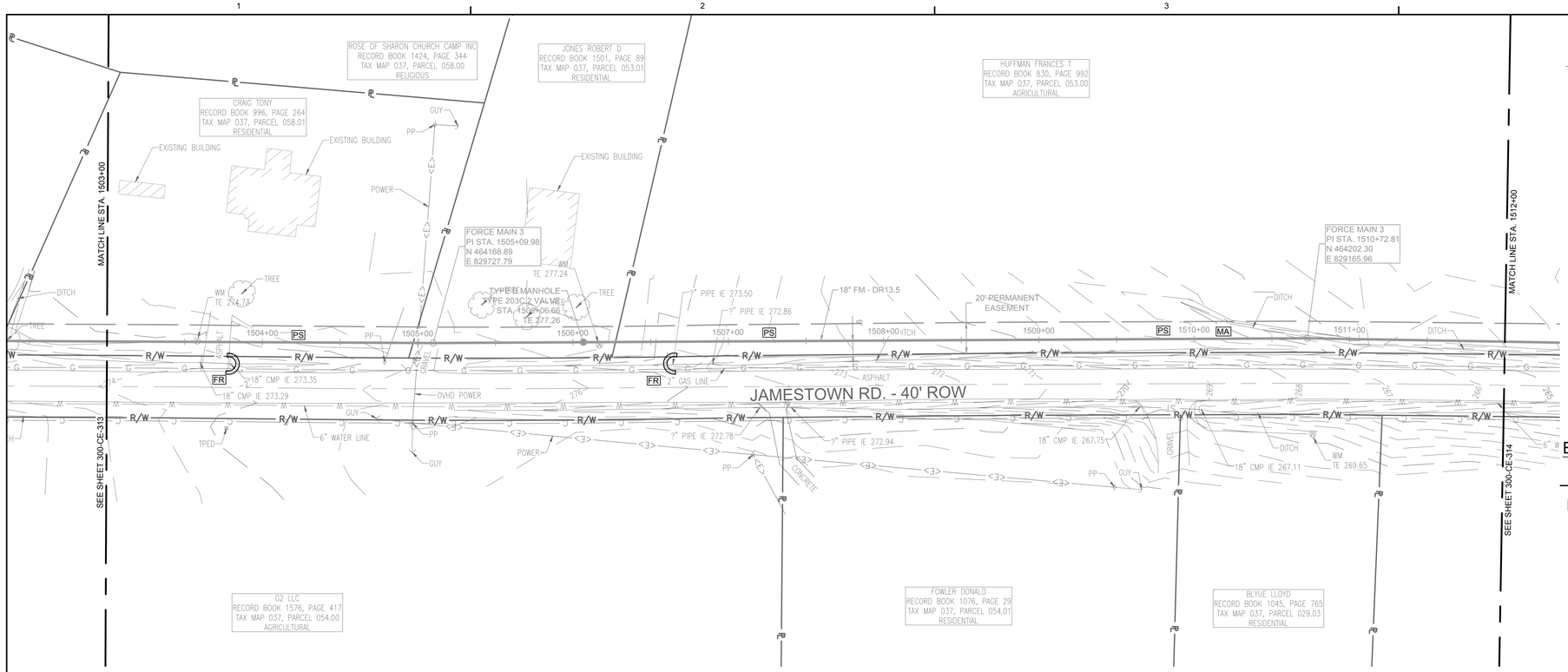
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1485+00.00 TO 1494+00.00
STA. 1494+00.00 TO 1503+00.00

DRAWING NO:
300-CE-313

C:\dgn\02221900\300-CE-313.dwg
DATE: Mar 09, 2017 - 9:03pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1503+00.00 TO 1512+00.00

SCALE: 1" = 40'



EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
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- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
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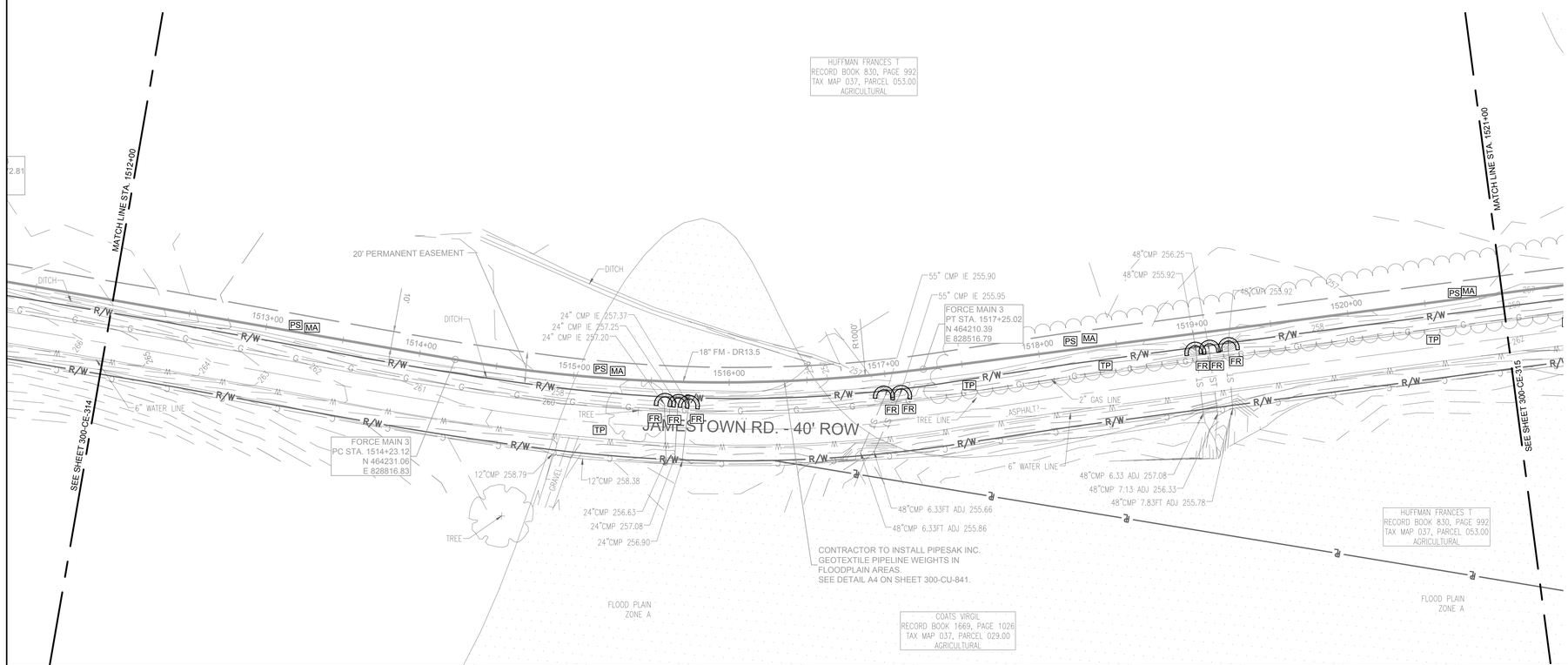
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1512+00.00 TO 1521+00.00

SCALE: 1" = 40'



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SEAL ID: FULL NAME AND LICENSE NUMBER
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PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

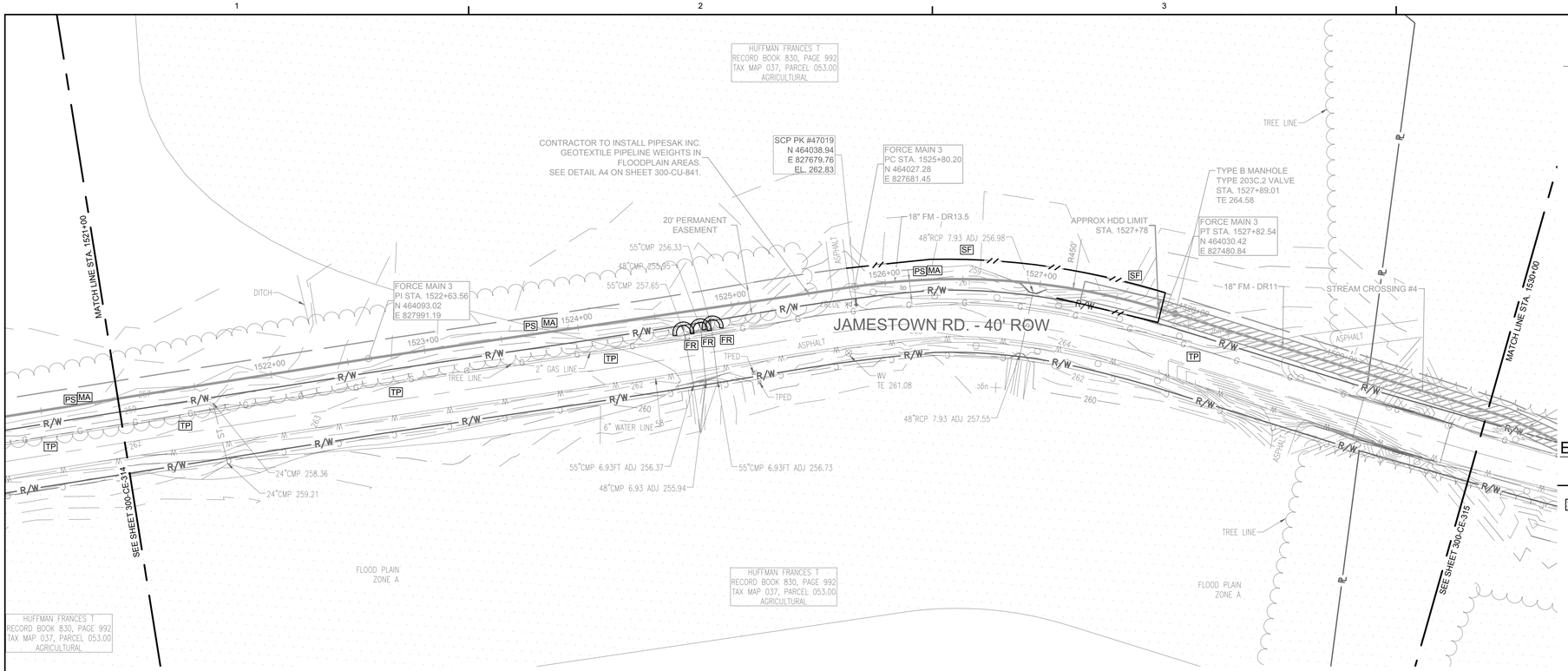
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1503+00.00 TO 1512+00.00
STA. 1512+00.00 TO 1521+00.00

DRAWING NO:
300-CE-314

C:\dgn\d2221\900\300-CE-314.dwg
DATE: Mar 09, 2017 - 9:06am USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1521+00.00 TO 1530+00.00

SCALE: 1" = 40'



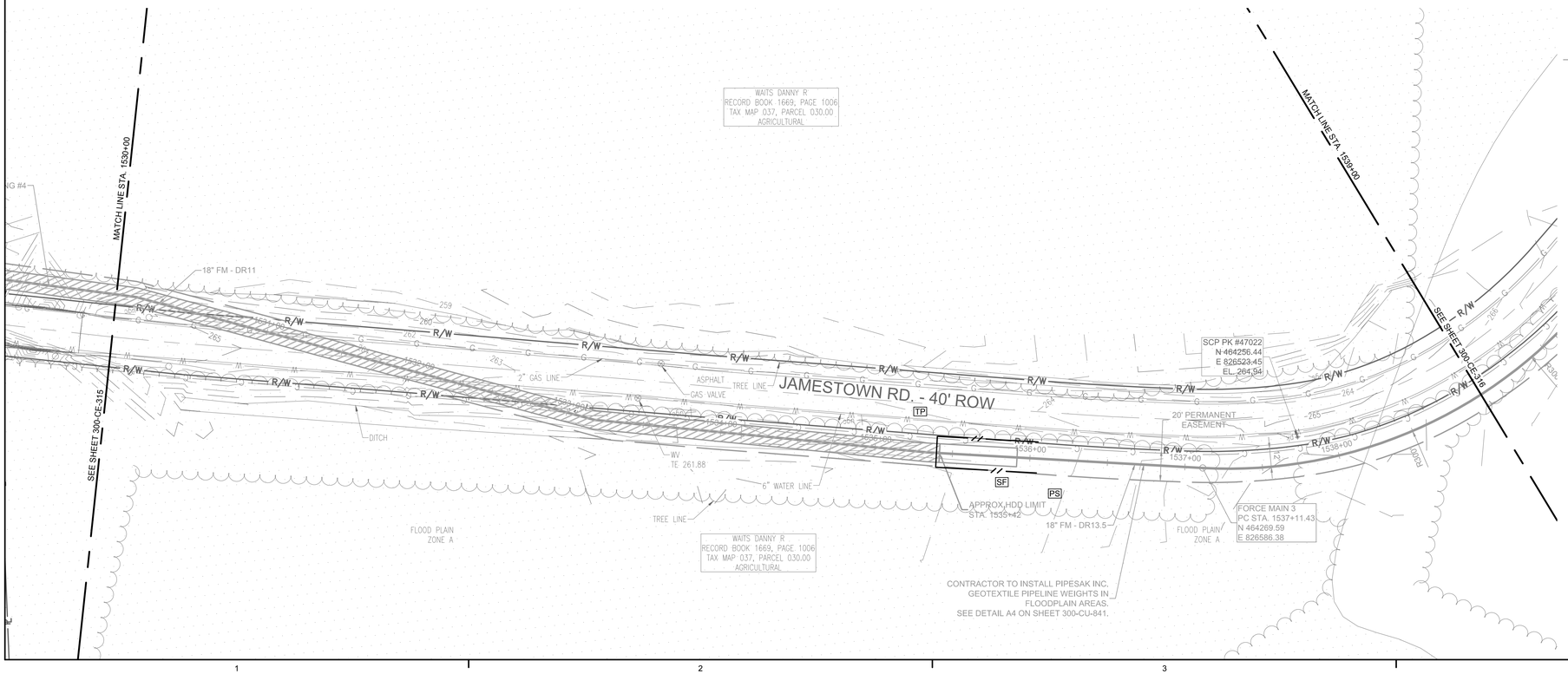
EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1530+00.00 TO 1539+00.00

SCALE: 1" = 40'



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www.jrwauford.com

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03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

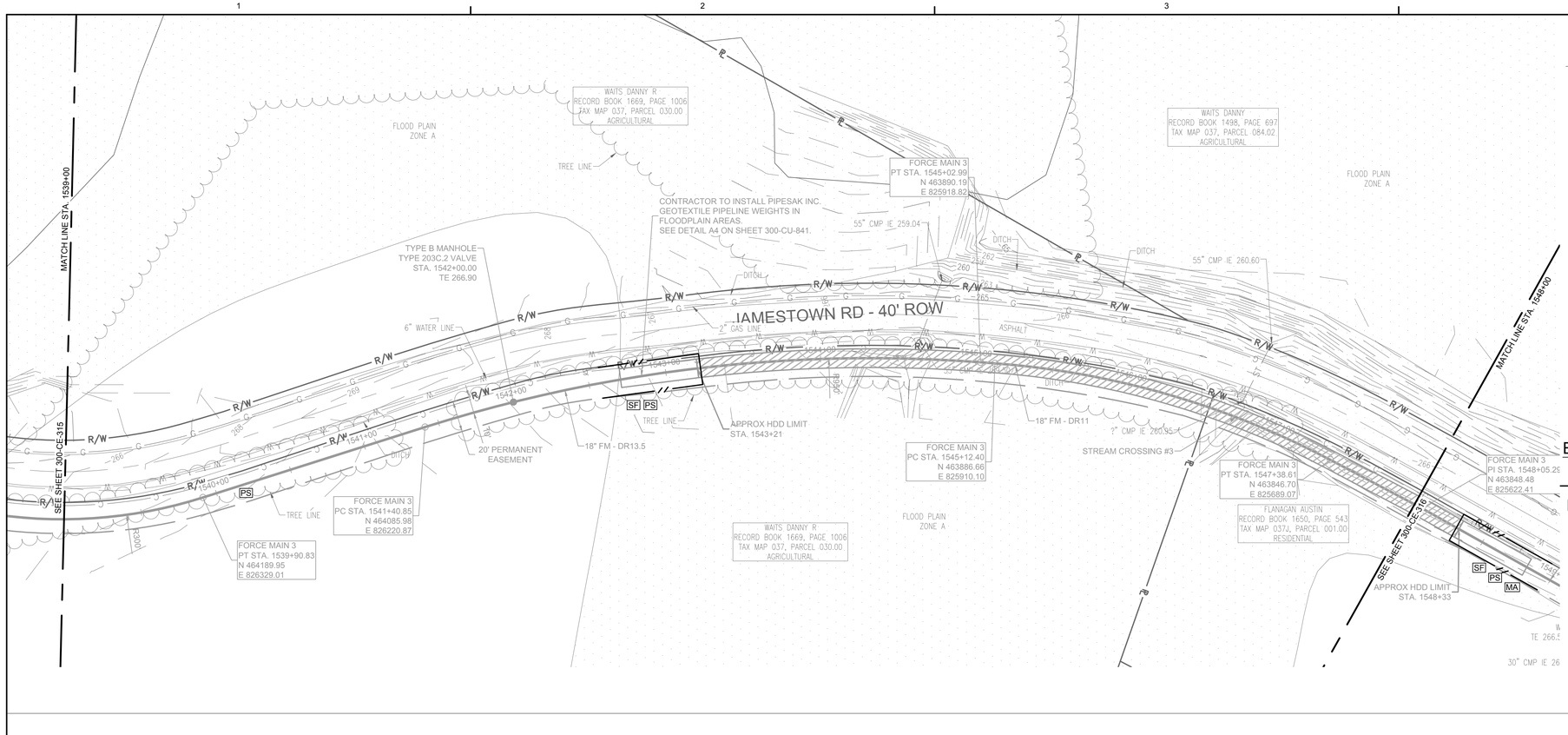
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1521+00.00 TO 1530+00.00
STA. 1530+00.00 TO 1539+00.00

DRAWING NO:
300-CE-315

C:\dgn\d221\900\300-CE-315.dwg
DATE: Mar 09, 2017 - 9:09pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1539+00.00 TO 1548+00.00

SCALE: 1" = 40'



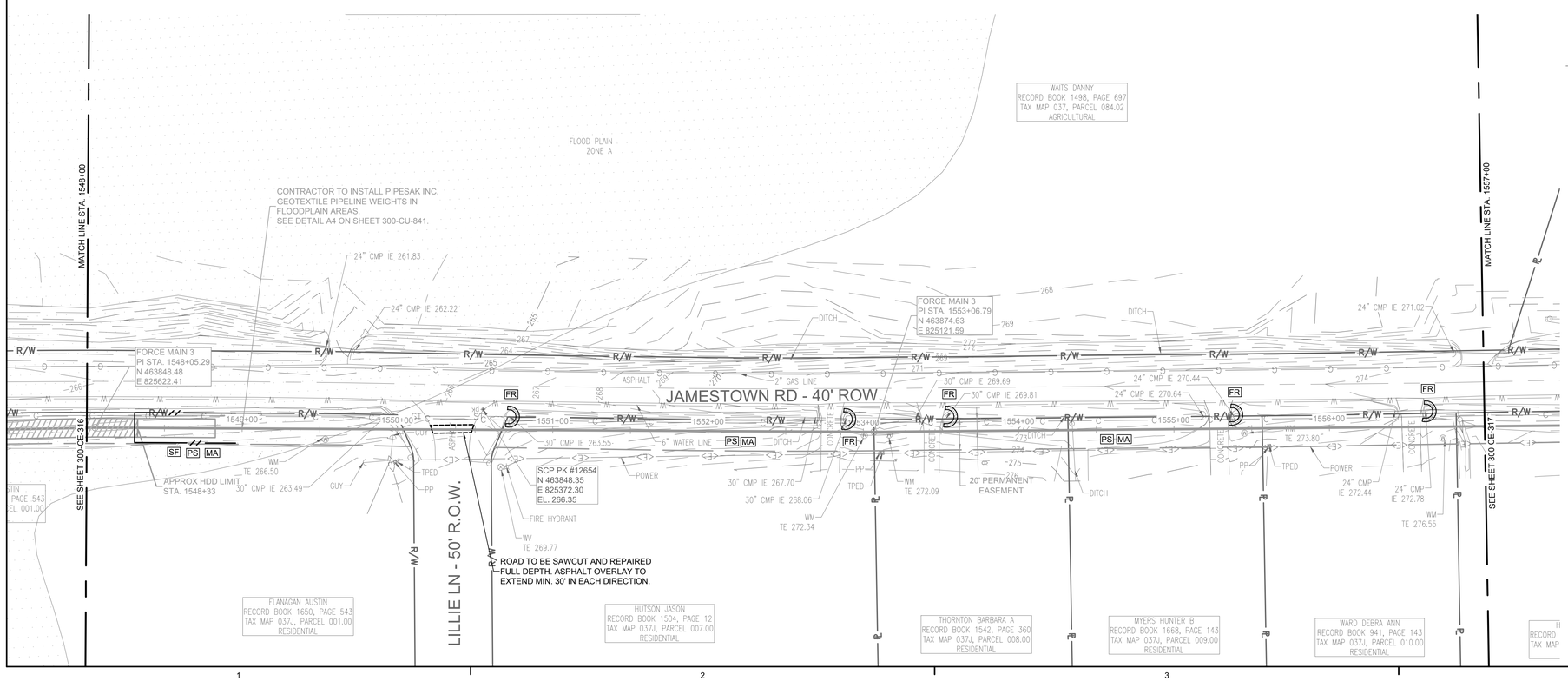
EPSC LEGEND

PS	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
SF	SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
CD	CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
FR	FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
MA	EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
TP	TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
IP	INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1548+00.00 TO 1557+00.00

SCALE: 1" = 40'



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03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

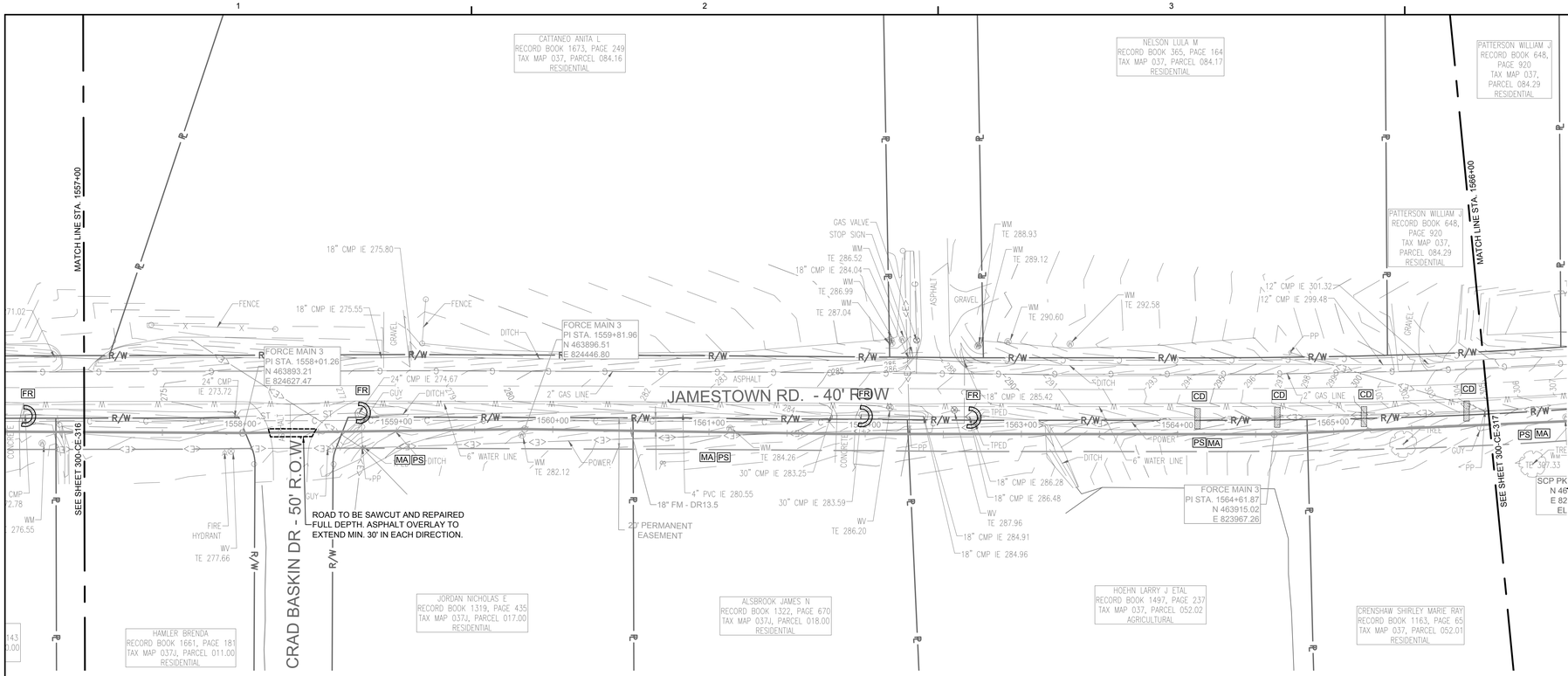
SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1539+00.00 TO 1548+00.00
STA. 1548+00.00 TO 1557+00.00

DRAWING NO:
300-CE-316

C:\dgn\022\100\300-CE-316.dwg
DATE: Mar 08, 2017 - 9:13pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1557+00.00 TO 1566+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
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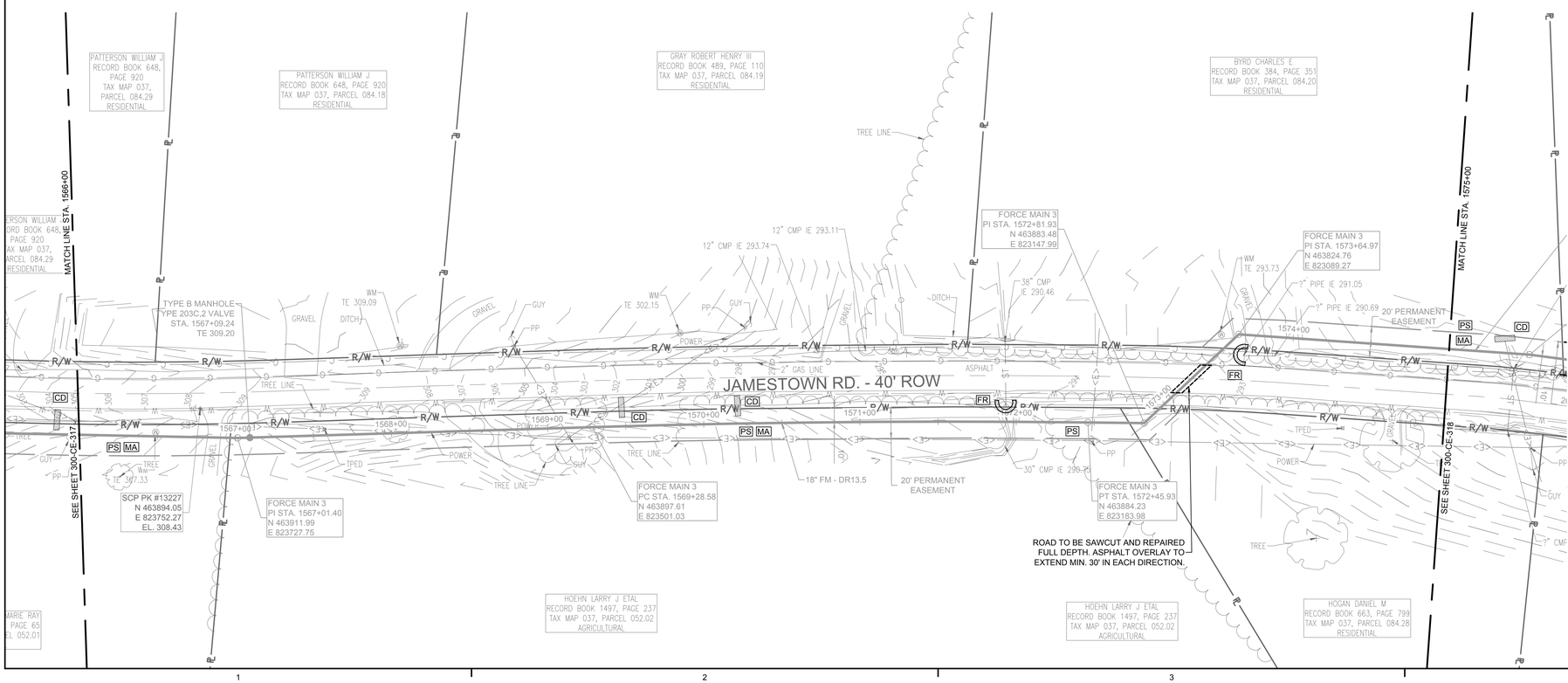

FORCE MAIN 3 - EPSC PLAN
STA. 1566+00.00 TO 1575+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'

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CONSULTANTS:

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NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
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2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

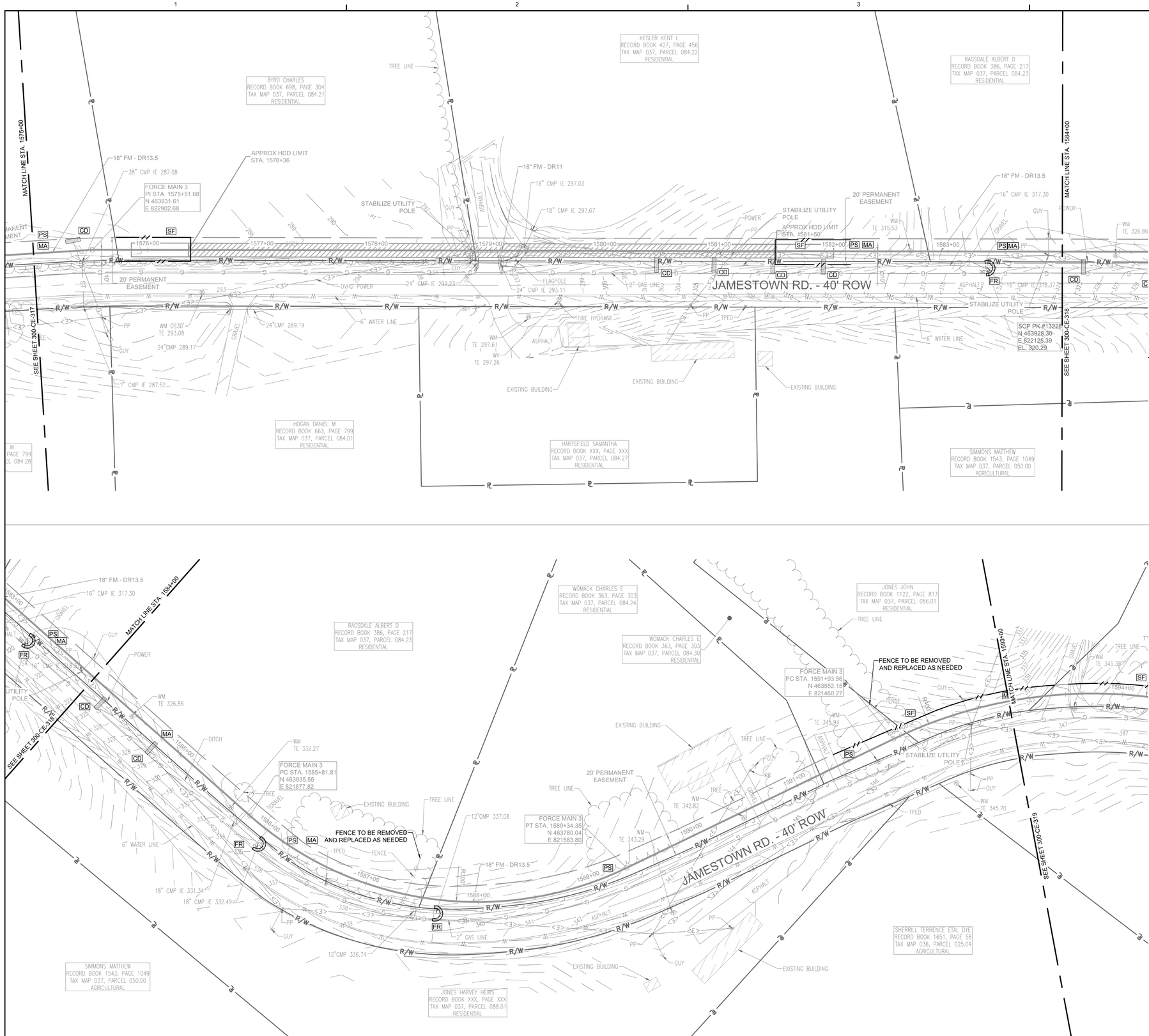
SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1557+00.00 TO 1566+00.00
STA. 1566+00.00 TO 1575+00.00

DRAWING NO:
300-CE-317

C:\dgn\d221090\300-CE-317.dwg
DATE: Mar 09, 2017 - 9:16pm USER: 15733



EPSC LEGEND

PS	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
SF	SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
CD	CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
FR	FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

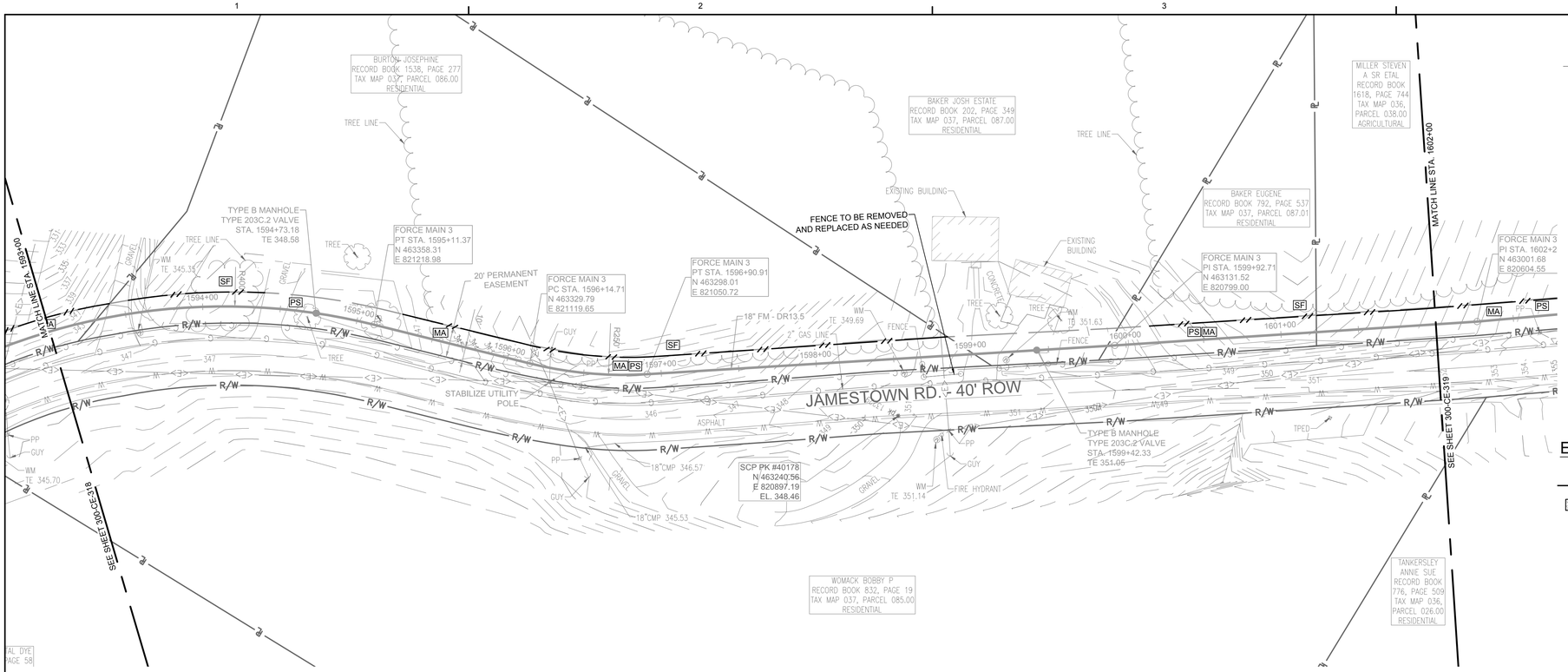
SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1575+00.00 TO 1584+00.00
STA. 1584+00.00 TO 1593+00.00

DRAWING NO:
300-CE-318

C:\dgn\d2221\900\300-CE-318.dwg
DATE: Mar 09, 2017 - 9:19pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1593+00.00 TO 1602+00.00

SCALE: 1" = 40'

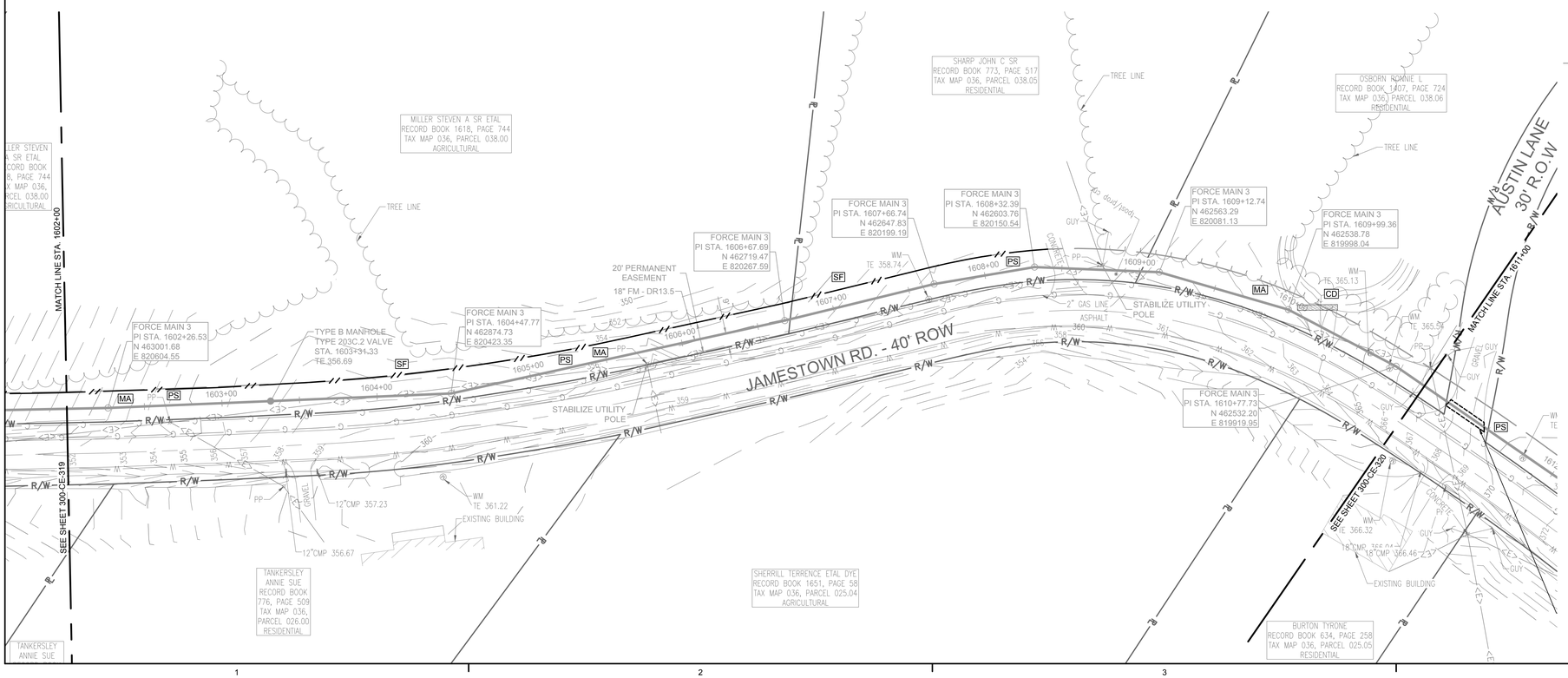
0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.



FORCE MAIN 3 - EPSC PLAN
STA. 1602+00.00 TO 1611+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

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FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1593+00.00 TO 1602+00.00
STA. 1602+00.00 TO 1611+00.00

DRAWING NO:
300-CE-319

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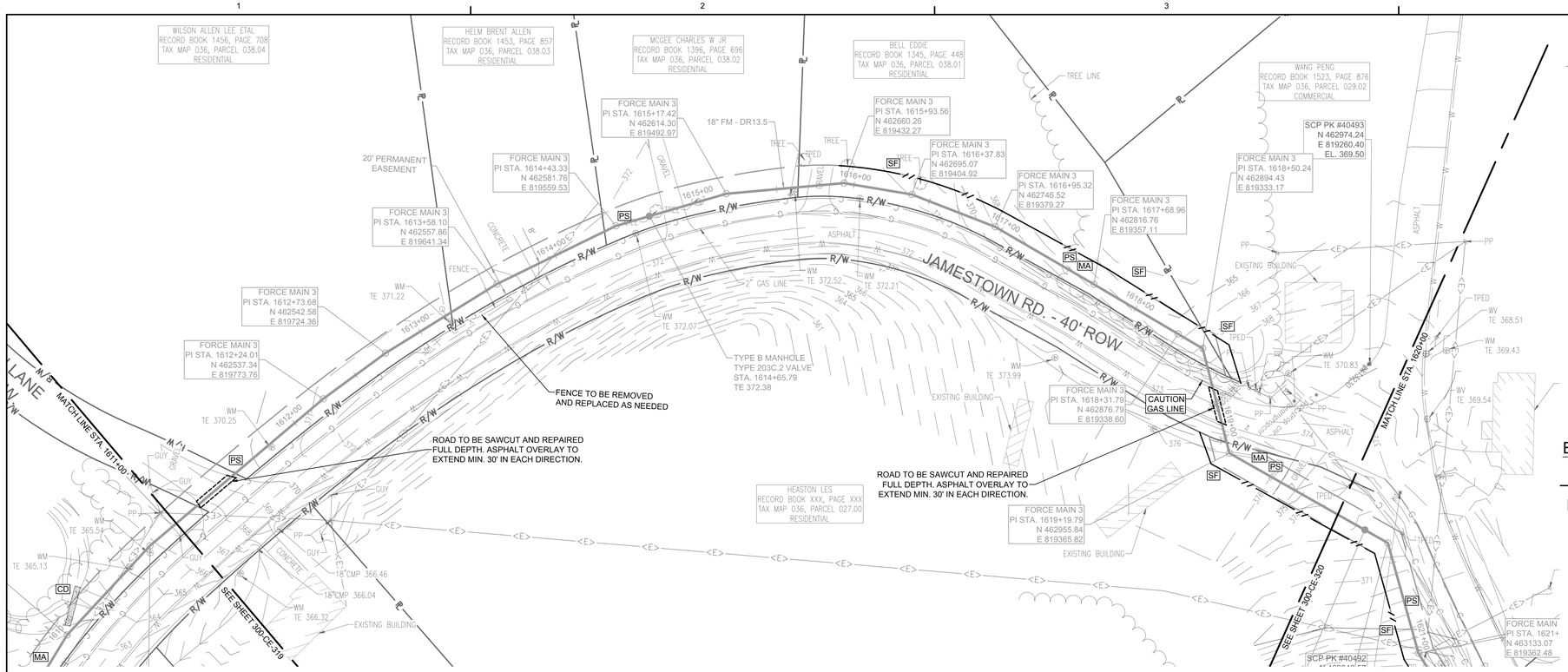
DATE: Mar 09, 2017 - 9:22pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1611+00.00 TO 1620+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'



EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
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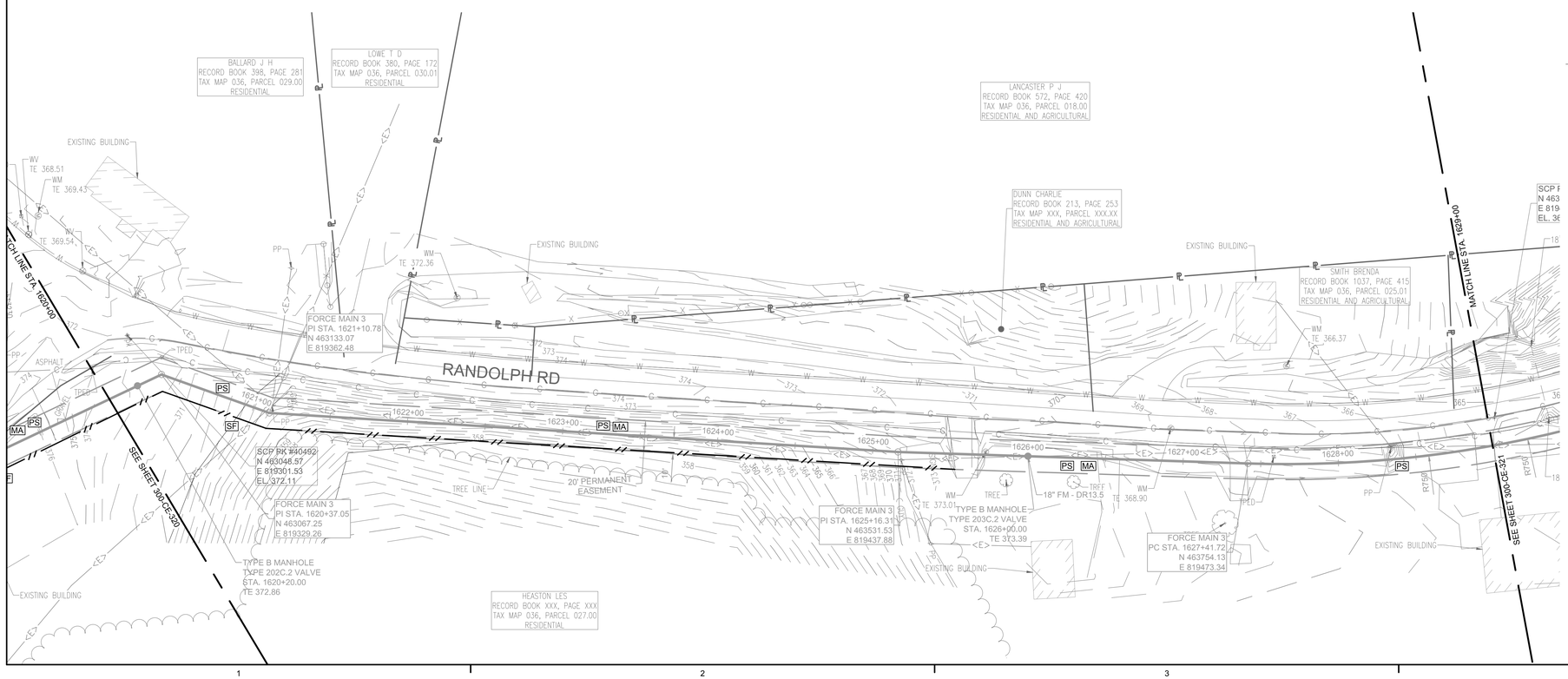
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1620+00.00 TO 1629+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'



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FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1611+00.00 TO 1620+00.00
STA. 1620+00.00 TO 1629+00.00

DRAWING NO:
300-CE-320

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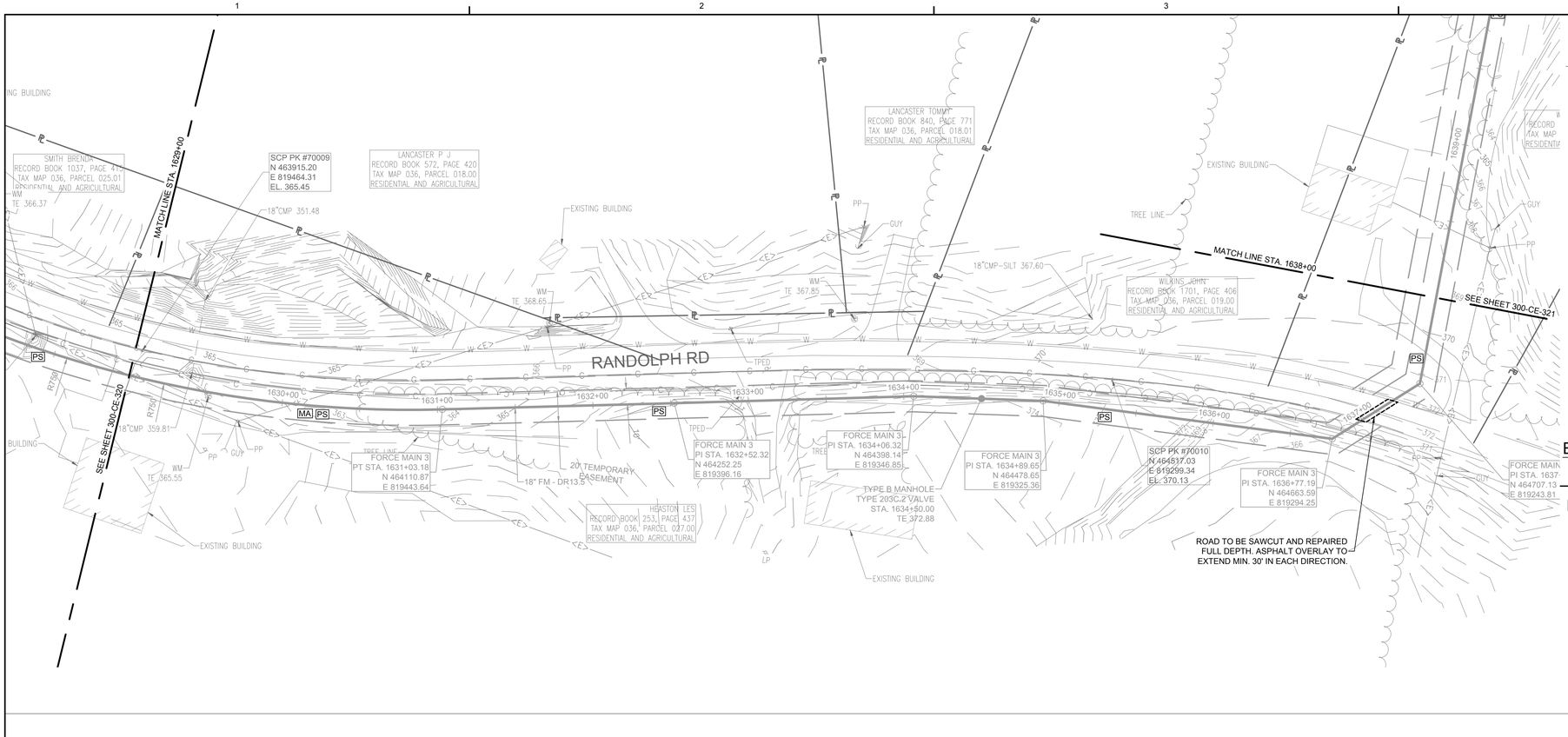
DATE: Mar 09, 2017 - 9:25pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1629+00.00 TO 1638+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'



EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
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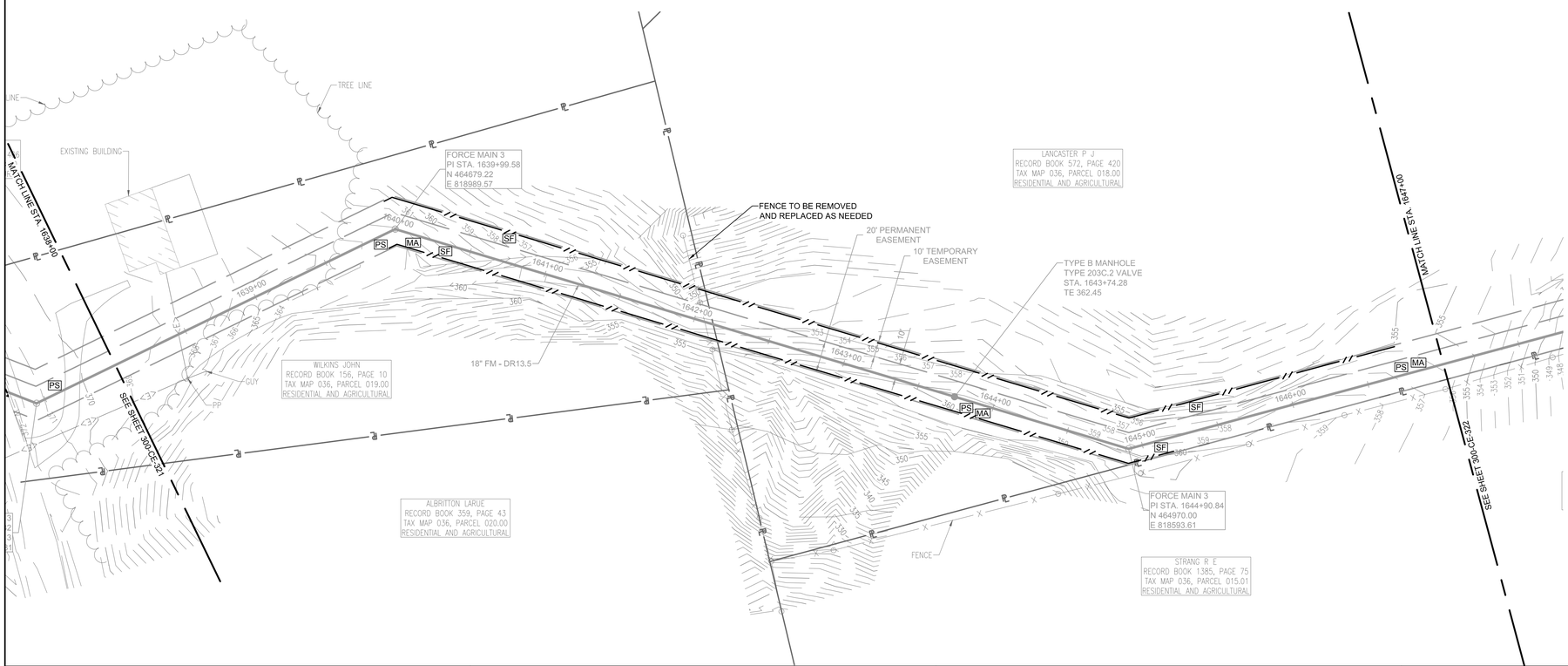
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1638+00.00 TO 1647+00.00

SCALE: 1" = 40'

GRAPHIC SCALE : 1" = 40'



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PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

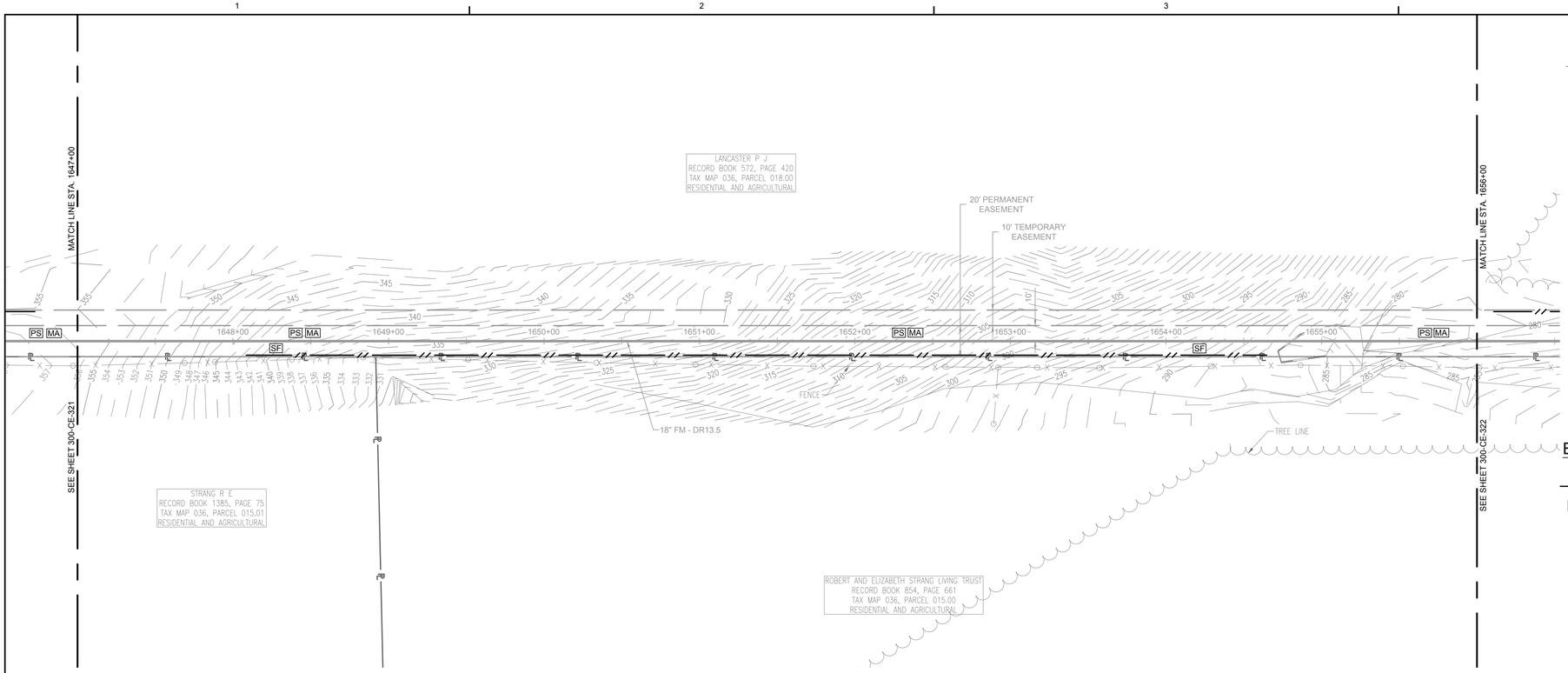
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1629+00.00 TO 1638+00.00
STA. 1638+00.00 TO 1647+00.00

DRAWING NO:
300-CE-321

C:\dgn\d2221\900\300-CE-321.dwg
DATE: Mar 09, 2017 - 9:28am USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1647+00.00 TO 1656+00.00

SCALE: 1" = 40'



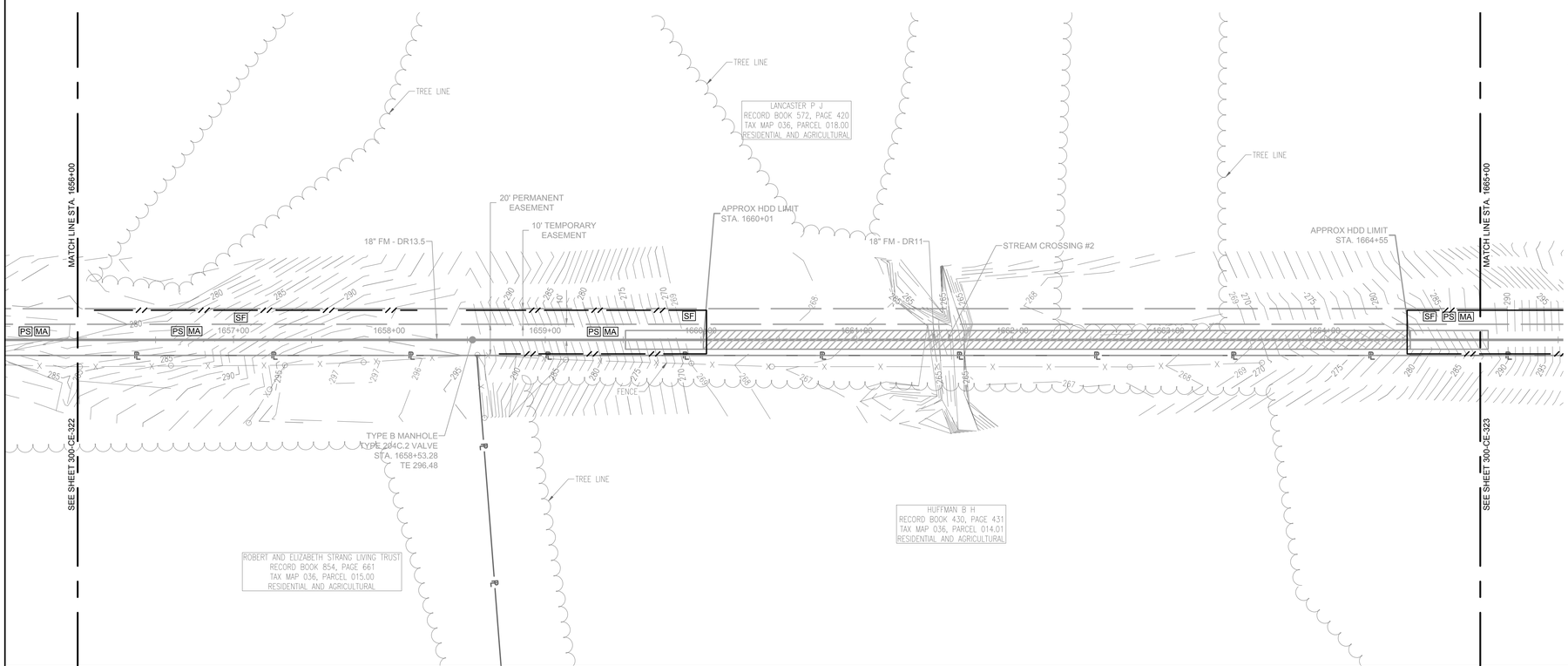
EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1656+00.00 TO 1665+00.00

SCALE: 1" = 40'



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PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

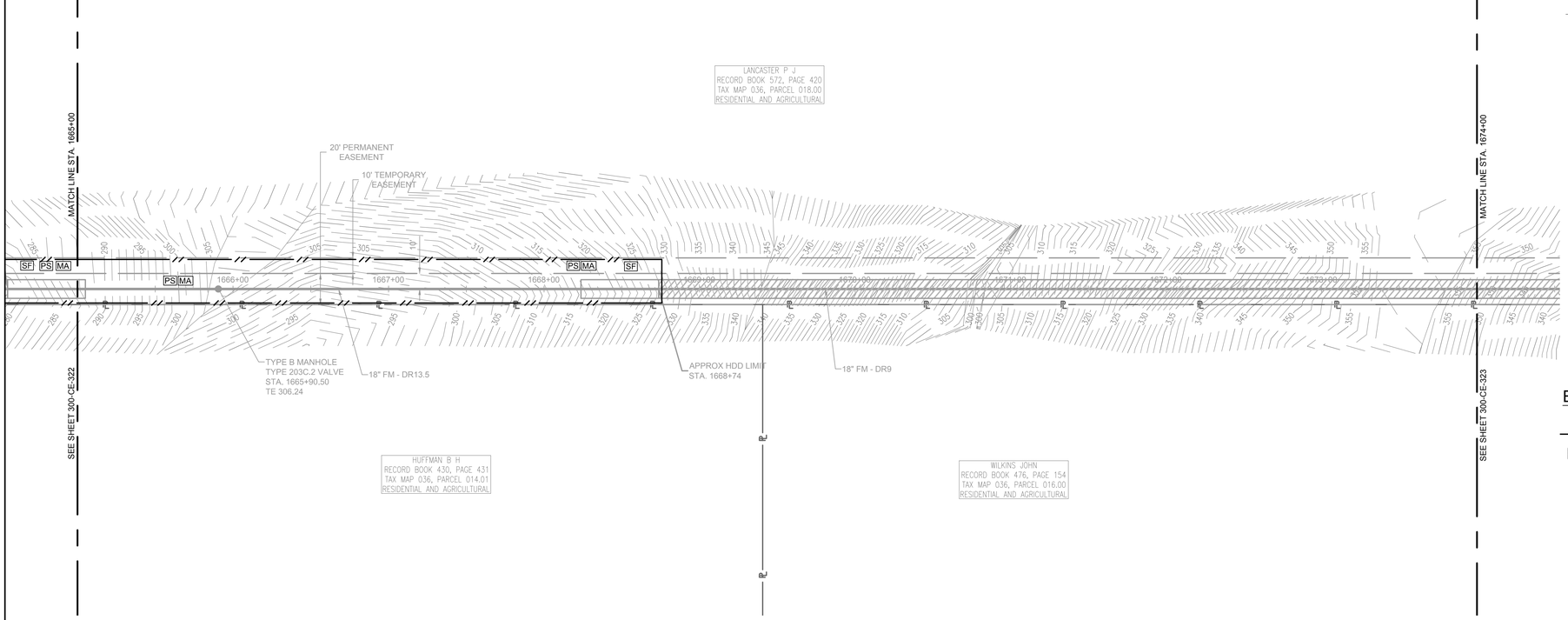
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1647+00.00 TO 1656+00.00
STA. 1656+00.00 TO 1665+00.00

DRAWING NO:
300-CE-322

C:\dgn\d221\900\300-CE-322.dwg
DATE: Mar 08, 2017 - 9:31pm USER: 15733

FORCE MAIN 3 - EPSC PLAN
STA. 1665+00.00 TO 1674+00.00

SCALE: 1" = 40'



GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
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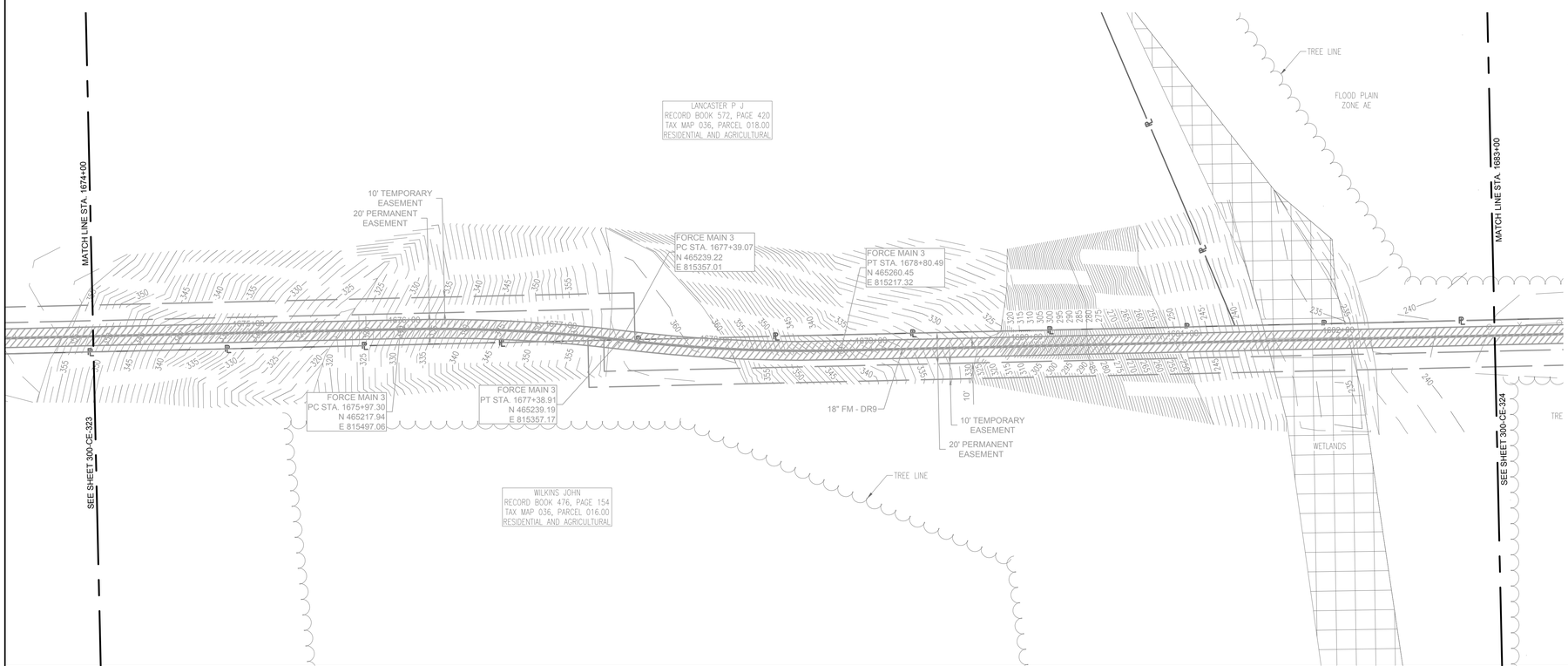
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1674+00.00 TO 1683+00.00

SCALE: 1" = 40'



GRAPHIC SCALE : 1" = 40'

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FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

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3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

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Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1665+00.00 TO 1674+00.00
STA. 1674+00.00 TO 1683+00.00

DRAWING NO:
300-CE-323

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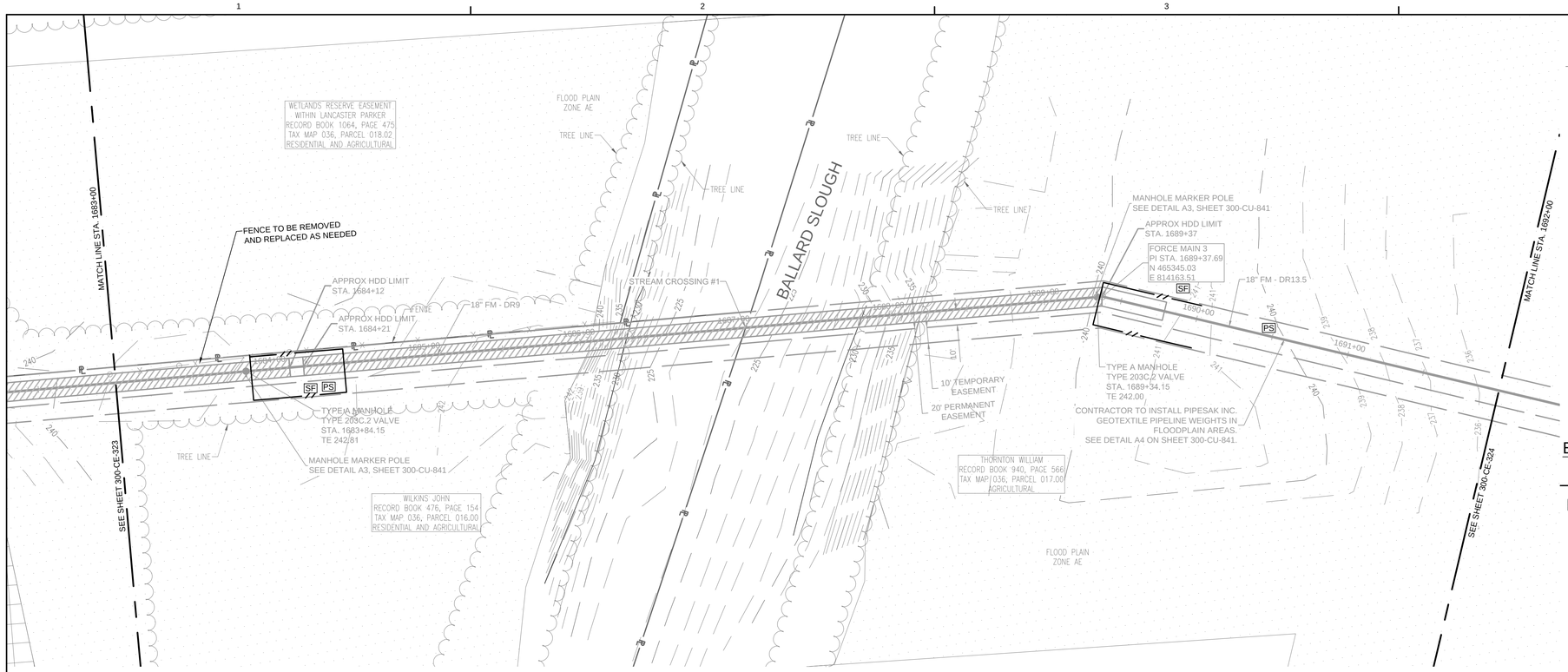
DATE: Mar 08, 2017 - 9:34pm USER: 15733



FORCE MAIN 3 - EPSC PLAN
STA. 1683+00.00 TO 1692+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

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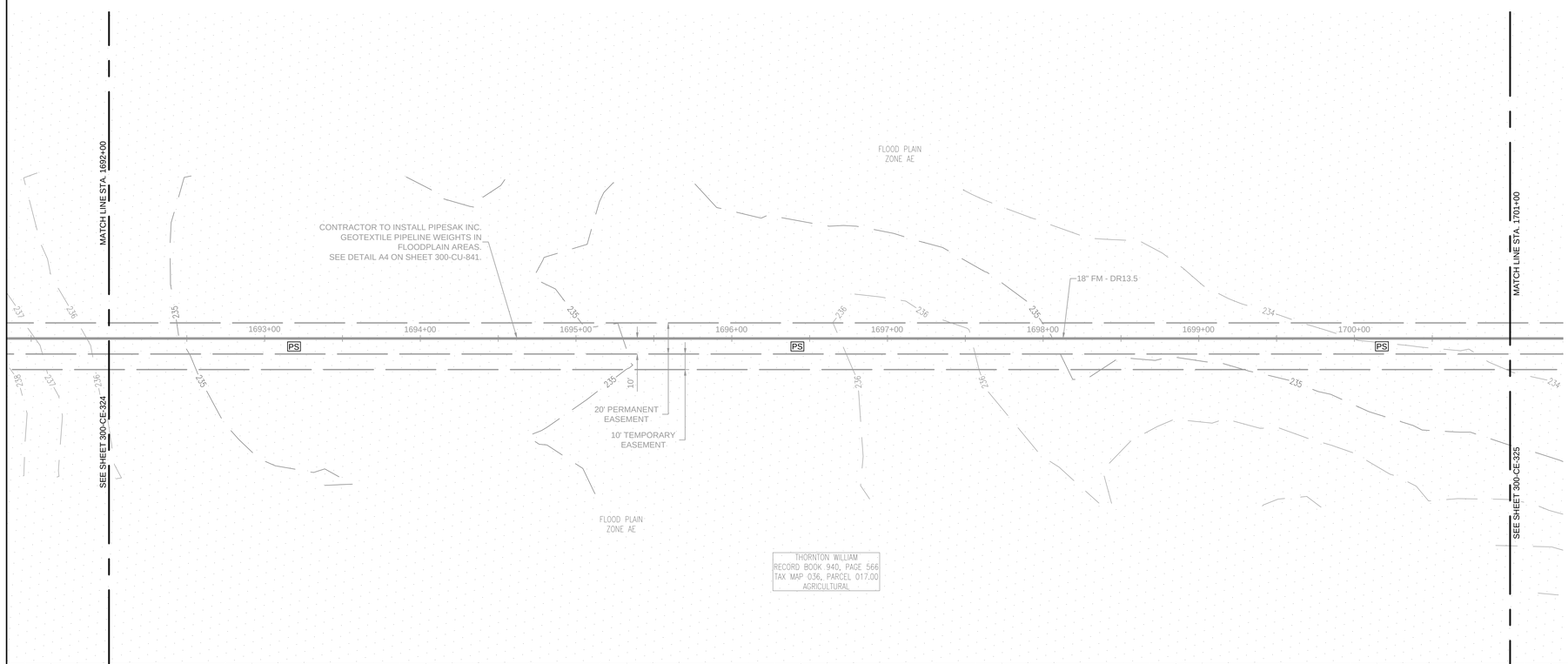

FORCE MAIN 3 - EPSC PLAN
STA. 1692+00.00 TO 1701+00.00

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

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FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
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PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

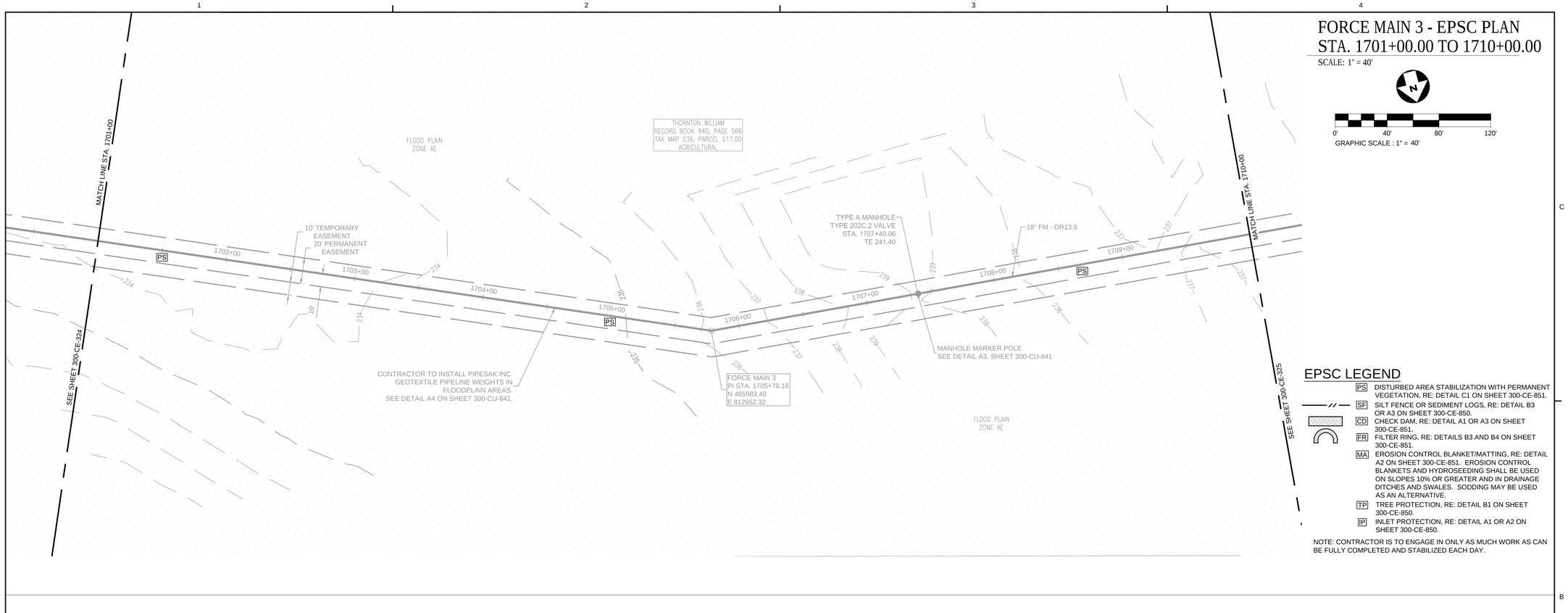
DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1683+00.00 TO 1692+00.00
STA. 1692+00.00 TO 1701+00.00

DRAWING NO:
300-CE-324

C:\dgn\d2221\00\300-CE-324.dwg
DATE: Mar 10, 2017 - 2:32pm USER: 15834

FORCE MAIN 3 - EPSC PLAN
STA. 1701+00.00 TO 1710+00.00

SCALE: 1" = 40'



GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

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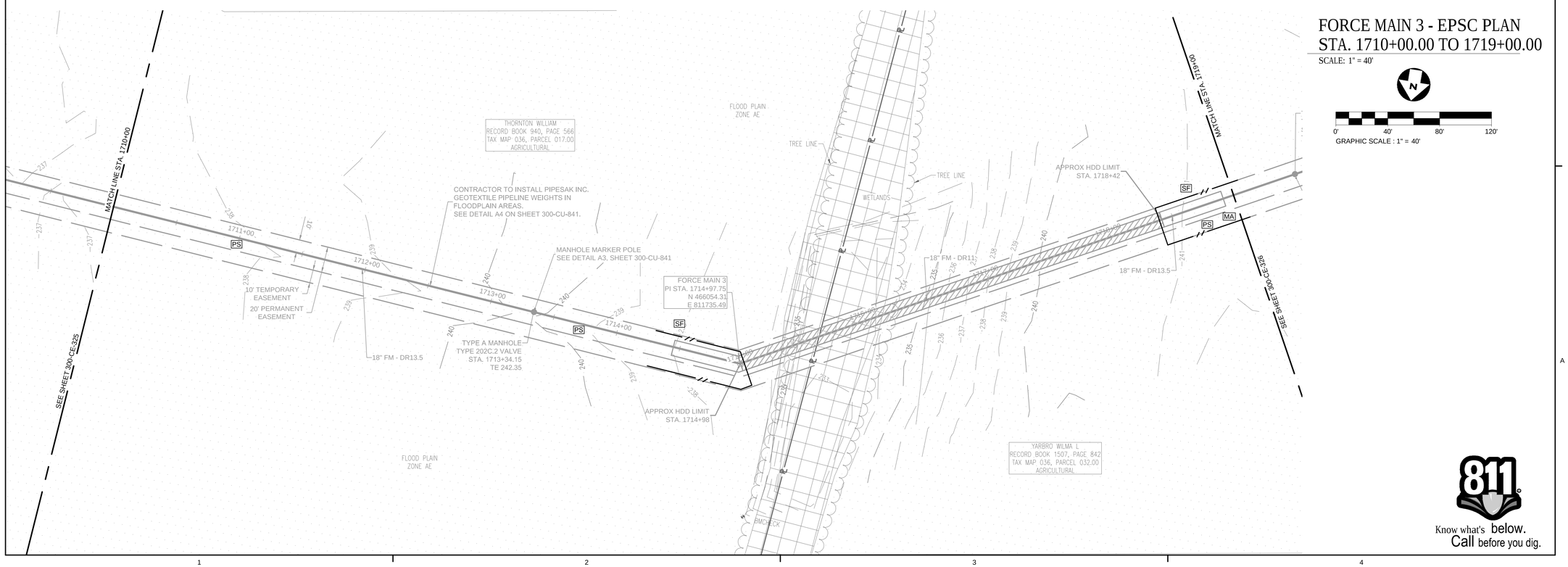
NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

FORCE MAIN 3 - EPSC PLAN
STA. 1710+00.00 TO 1719+00.00

SCALE: 1" = 40'



GRAPHIC SCALE : 1" = 40'

Know what's below.
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CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO:	012-02080-16
PROJECT MANAGER:	D. HIBDON
DESIGNED:	E. LANG
CHECKED:	C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1701+00.00 TO 1710+00.00
STA. 1710+00.00 TO 1719+00.00

DRAWING NO:
300-CE-325

C:\dgn\d2221\00\300-CE-325.dwg
DATE: Mar 10, 2017 - 2:36pm USER: 15834

FORCE MAIN 3 - EPSC PLAN
STA. 1719+00.00 TO 1722+00.00

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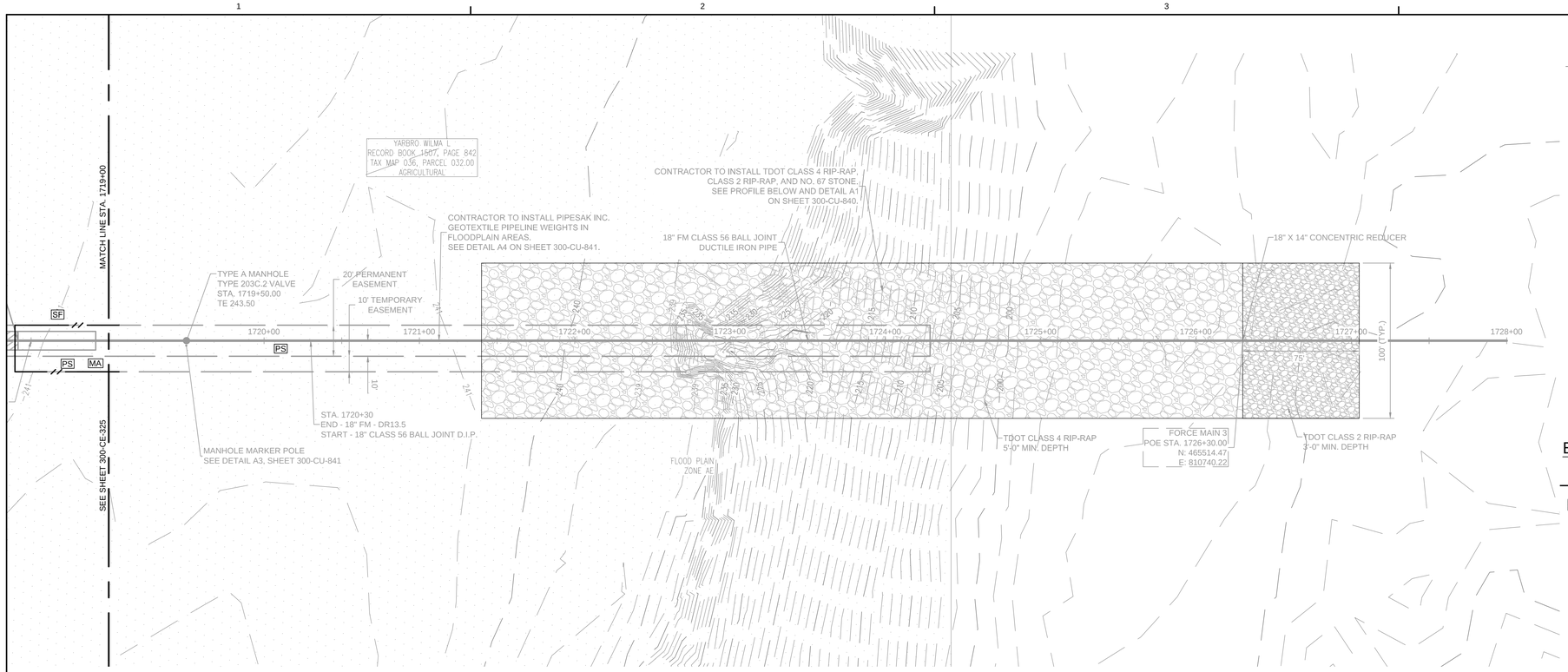

SCALE: 1" = 40'

0' 40' 80' 120'

GRAPHIC SCALE : 1" = 40'

EPSC LEGEND

- PS — DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION, RE: DETAIL C1 ON SHEET 300-CE-851.
- SF — SILT FENCE OR SEDIMENT LOGS, RE: DETAIL B3 OR A3 ON SHEET 300-CE-850.
- CD — CHECK DAM, RE: DETAIL A1 OR A3 ON SHEET 300-CE-851.
- FR — FILTER RING, RE: DETAILS B3 AND B4 ON SHEET 300-CE-851.
- MA — EROSION CONTROL BLANKET/MATTING, RE: DETAIL A2 ON SHEET 300-CE-851. EROSION CONTROL BLANKETS AND HYDROSEEDING SHALL BE USED ON SLOPES 10% OR GREATER AND IN DRAINAGE DITCHES AND SWALES. SODDING MAY BE USED AS AN ALTERNATIVE.
- TP — TREE PROTECTION, RE: DETAIL B1 ON SHEET 300-CE-850.
- IP — INLET PROTECTION, RE: DETAIL A1 OR A2 ON SHEET 300-CE-850.

NOTE: CONTRACTOR IS TO ENGAGE IN ONLY AS MUCH WORK AS CAN BE FULLY COMPLETED AND STABILIZED EACH DAY.

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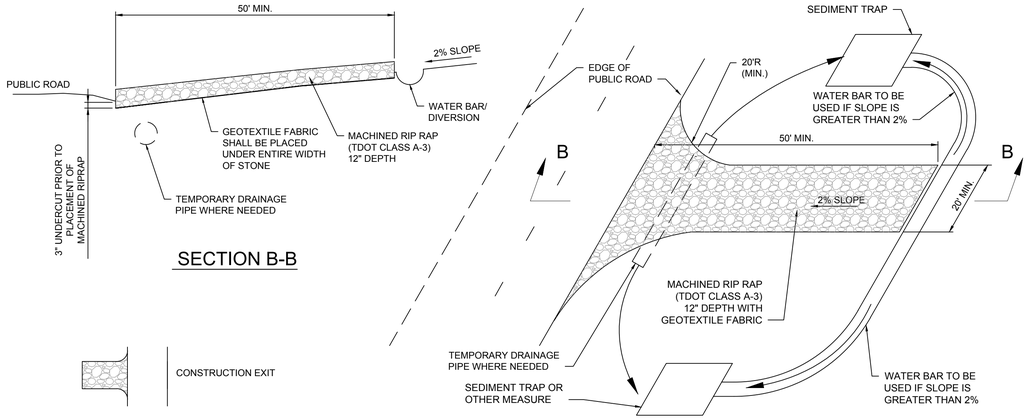
DESIGNED: E. LANG
CHECKED: C. HARTMAN

DRAWING TITLE:
FORCE MAIN 3 - EPSC PLAN
STA. 1719+00.00 TO 1722+00.00

DRAWING NO:
300-CE-326

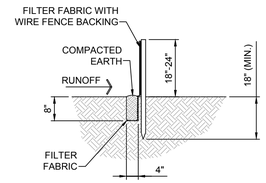
C:\dgn\d2221\00\300-CE-326.dwg
DATE: Mar 10, 2017 - 2:39pm USER: 15733



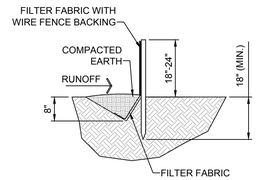
C1 CONSTRUCTION EXIT WITH WATER BAR

CE

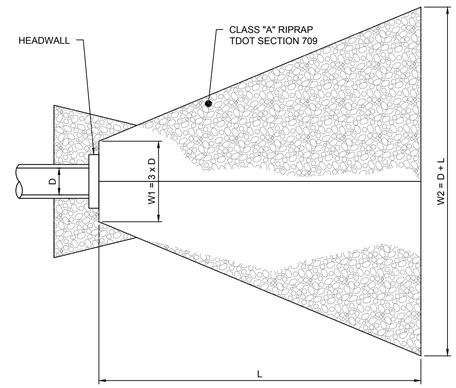
NO SCALE



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



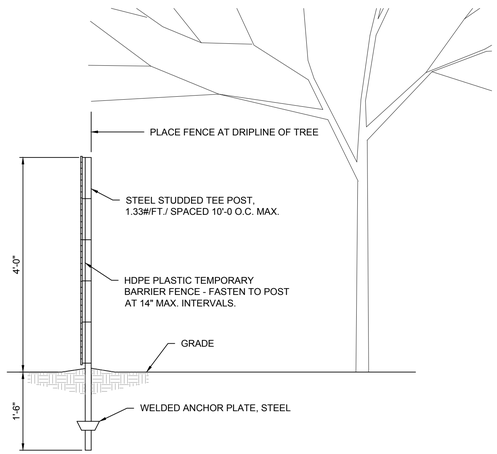
PLAN

OUTLET PROTECTION DIMENSION				
D (INCHES)	L (FEET)	W1	W2	D50 (INCHES)
15"	15'-0"	3'-9"	16'-3"	6.5
18"	18'-0"	4'-6"	19'-6"	8.5
24"	24'-0"	6'-0"	26'-0"	11
27"	27'-0"	6'-9"	29'-3"	12.5
30"	30'-0"	7'-6"	32'-6"	13.5
36"	36'-0"	9'-0"	39'-0"	15.5
42"	40'-0"	10'-6"	43'-6"	17
48"	40'-0"	12'-0"	44'-0"	18.5
60"	40'-0"	15'-0"	45'-6"	21.5

D50 = MEDIAN RIPRAP SIZE
DMAX = MAXIMUM RIPRAP SIZE = 1.5 X D50
DEPTH OF RIPRAP APRON = 1.5 X DMAX (MIN. DEPTH IS 1.5 FEET)

NOTES:

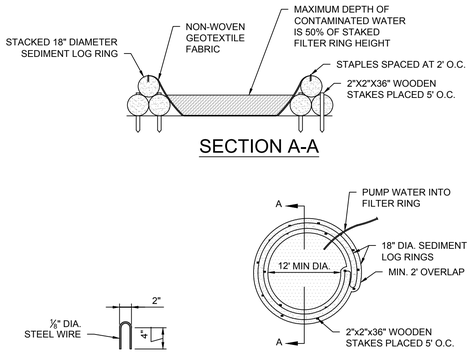
1. L = LENGTH OF RIPRAP APRON.
2. EXTEND THE APRON UP THE CHANNEL BANKS.
3. FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. OUTLET PROTECTION SHOWN, INLET PROTECTION TO BE HALF OF HORIZONTAL DIMENSIONS SHOWN.
5. EXTEND RIP RAP AROUND BACK OF HEADWALL
6. AT DITCH 90° BEND OR TEE INTERSECTION, RIP RAP TO EXTEND TO TOP OF BANKS AND A MINIMUM OF 50' IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.



B1 TREE PROTECTION FENCE

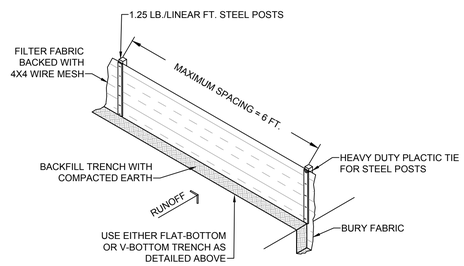
TP

NO SCALE



B2 CONCRETE WASHOUT AREA/ FILTER RING

NO SCALE



SILT FENCE INSTALLATION

B3 SILT FENCE

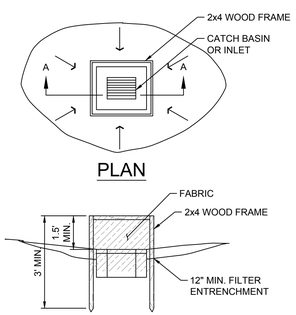
SF

NO SCALE

B4 OUTLET PROTECTION

OP

NO SCALE



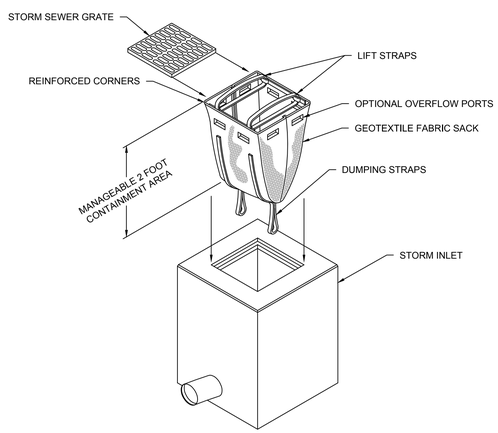
NOTES:

1. SPACE STAKES EVENLY AROUND PERIMETER OF INLET 36" MAX. APART.
2. SILT FENCE TO BE FASTENED SECURLEY EVERY 6" ALONG POST. JOINTS MUST OVERLAP TO THE NEXT STAKE.
3. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN IT REACHES 50% OF THE HEIGHT OF THE FABRIC.

A1 INLET SEDIMENT TRAP

IP

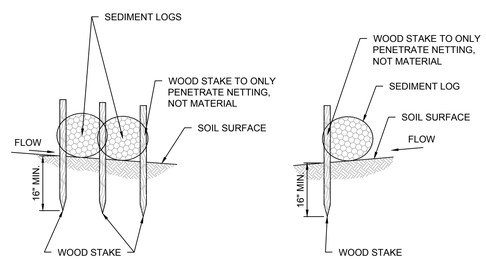
NO SCALE



A2 SEDIMENT SACK INLET PROTECTION

IP

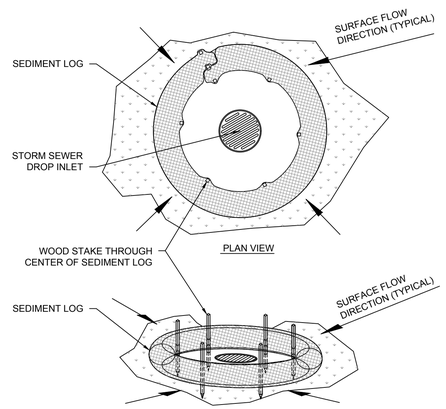
NO SCALE



A3 SEDIMENT LOG STAKING DETAIL

SF

NO SCALE



A4 SEDIMENT LOG INLET PROTECTION

IP

NO SCALE

SSOE

CONSULTANTS:

WAUFORD

J. R. Wauford & Company, Consulting Engineers, Inc.
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PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

DRAWING TITLE:
EROSION CONTROL DETAILS

DRAWING NO:
300-CE-850

C:\dgn\2221\00\300-CE-850.dwg
DATE: Mar 09, 2017 - 9:43pm USER: 15733

TEMPORARY SEED MIXES

ZONE	SEASON	BEST DATES	RATE/MIX (LB/AC)
WEST	LATE WINTER AND EARLY SPRING	DEC. 1 - APR. 15	RYE 120
	SUMMER	APR. 15 - AUG. 15	OATS 60 BROWN TOP MILLET 30
	FALL	AUG. 15 - DEC 30	OATS 30 WINTER WHEAT 30

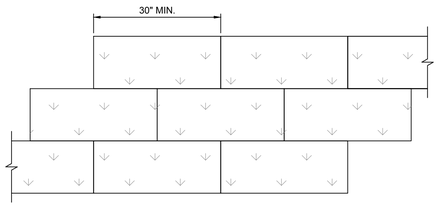
SEED MIXTURES AS SPECIFIED IN THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK.

PERMANENT SEED MIXES

ZONE		BEST DATES	MARGINAL DATES	RATE/MIX (LB/AC PLS)	RATE/MIX (LB/AC PLS)
REGION I	POORLY DRAINED SOILS	FEB 1 - MAR 20 SEPT 1 - SEPT 30	MAR 20 - APR 30 SEPT 30 - OCT 31	15 BROWNTOP MILLET* (NURSE CROP) 2 SWITCH GRASS 4 LITTLE BLUESTEM 4 VIRGIIA WIELD RYE 4 PURPLETOP 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN	80 PENSACOLA BAHIAGRASS 30 BERMUDAGRASS (HULLED) 20 KOREAN LESPEDEZA** 10 KOBE LESPEDEZA**
	WELL DRAINED SOILS	APR 1 - JUL 15		15 BROWNTOP MILLET* (NURSE CROP) 4 LITTLE BLUE STEM 4 PURPLETOP 2 SIDECOATS GRAMMA 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN	50 PENSACOLA BAHIAGRASS 15 BERMUDAGRASS (HULLED) 30 KOREAN LESPEDEZA** 15 FOXTAIL MILLET**
	HIGH MAINTENANCE	APR 1 - JUL 15		15 BROWNTOP MILLET* (NURSE CROP) 2 PARTRIDGE PEA 45 RED FESCUE** 45 HARD FESCUE** 25 CHEWING FESCUE**	40 BERMUDAGRASS (HULLED)

C1 TEMPORARY AND PERMANENT SEED MIXES — TS PS

NO SCALE



PLAN

SODDING SPECIFICATIONS

1. SITE PREPARATION

1.1. AREAS TO BE SODDED SHALL BE GRADED AND SMOOTHED TO A FIRM SURFACE.
1.2. THE AREA TO BE SODDED SHALL BE FREE OF STONES, ROOTS, AND OTHER DEBRIS.
1.3. THE AREA SHALL BE COVERED WITH A MINIMUM OF 6 INCHES OF TOPSOIL IF THE SUBSOIL IS NOTSUITABLE FOR THE ESTABLISHMENT OF SOD.
1.4. APPLY 500 POUNDS OF 20-10-10 FERTILIZER, OR EQUIVALENT, PER ACRE IN LIEU OF A SOIL TEST. MIX THE FERTILIZER WITH THE TOP 3 INCHES OF SOIL.
1.5. APPLY LIMING MATERIALS WHEN THE pH TEST IS BELOW 5.5
1.6. SURFACES WHICH ARE NOT MOIST MUST BE SPRINKLED PRIOR TO PLACING THE SOD.

2. SOD REQUIREMENTS

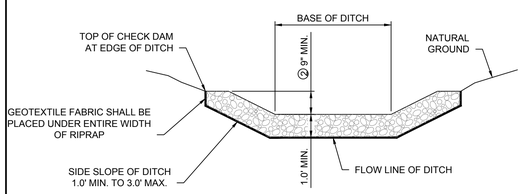
2.1. THE SOD SHALL CONSIST OF A DENSE GROWTH OF THE REQUIRED SPECIES, AND BE FREE OF NOXIOUS WEEDS.
2.2. THE SOD SHALL HAVE A UNIFORM MINIMUM THICKNESS OF 3/4 INCHES.
2.3. THE GRASS SHALL HAVE AN APPROXIMATE LENGTH OF 2 INCHES WHEN THE SOD IS CUT.
2.4. THE SOD SHALL BE CUT WITH SMOOTH SQUARE EDGES AND AT A UNIFORM WIDTH. THE SOD STRIP LENGTH SHALL NOT BE LESS THAN 30 INCHES.
2.5. IF THE SOD IS TOO DRY TO ROLL, IT WILL BE WATERED A FEW HOURS BEFORE CUTTING.

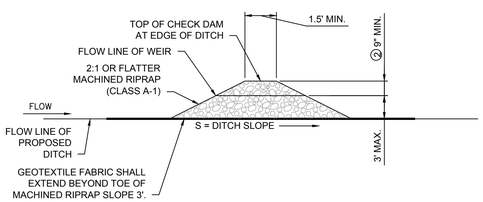
3. SOD PLACEMENT

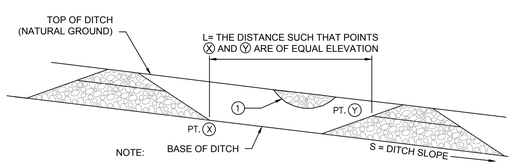
3.1. SOD SHALL BE LAID AS SOON AS POSSIBLE AFTER CUTTING, NORMALLY WITHIN 2 DAYS.
3.2. THE SOD SHALL BE LAID AT RIGHT ANGLES TO THE DIRECTION OF WATER FLOW.
3.3. THE SOD WILL BE LAID STARTING AT THE BASE OF SLOPES AND PROCEED UPWARD.
3.4. THE SOD STRIPS SHALL NOT BE STRETCHED.
3.5. THE UPPER EDGE OF THE SOD STRIP SHALL BE TURNED DOWN SLIGHTLY AT THE TOP OF SLOPES TO HELP CONDUCT WATER ONTO THE SODDED AREA.
3.6. THE SOD SHALL BE PLACED SO THAT NO OPEN JOINTS ARE LEFT BETWEEN STRIPS OR ENDS OF STRIPS. JOINTS SHALL BE STAGGERED.
3.7. APPLY A THIN LAYER OF TOPSOIL TO ALL OPEN JOINTS AND AROUND ALL OPEN EXPOSED EDGES.
3.8. THE SOD SHALL BE HELD IN PLACE, WHEN NEEDED, BY WOODEN PEGS OR OTHER MEANS UNTIL THE SOD IS ESTABLISHED AND FIRMLY ROOTED.
3.9. ROLL OR TAMP FIRMLY AND THROUGHLY SOAK THE SOD AFTER PLACEMENT
3.10. WATERING OF THE SODDED AREA SHALL BE CONTINUED AS NEEDED TO PREVENT THE SOD FROM DRYING OUT FOR 30 DAYS AFTER THE SODDING IS COMPLETE.

C3 SOD DETAIL — SO

NO SCALE







NOTE:

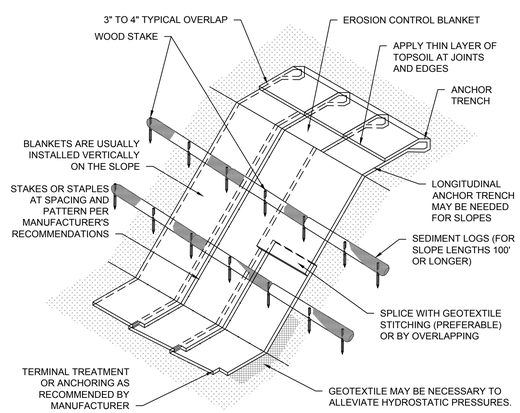
① FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXISTING DITCH.

② WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

DETAIL FOR SPACING BETWEEN CHECK DAMS

A1 STONE FILTER CHECK DAM DETAIL

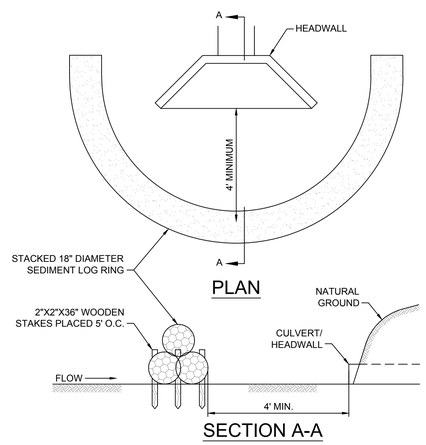
NO SCALE



FASTENING AND PINNING FOR EROSION CONTROL BLANKET TO BE AS SHOWN ABOVE AS WELL AS PINNING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

A2 EROSION CONTROL BLANKET — MA

NO SCALE



PLAN

SECTION A-A

B3 SEDIMENT LOG RING HEADWALL INLET PROTECTION — FR

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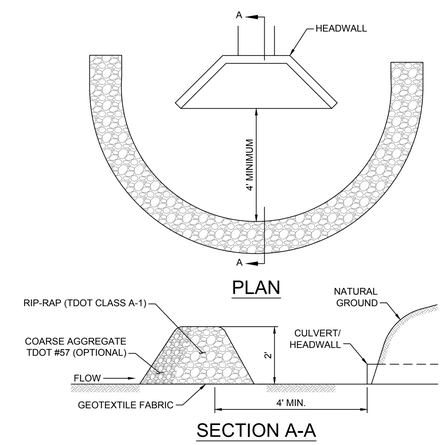

PLAN

SECTION A-A

B4 STONE FILTER RING HEADWALL INLET PROTECTION — FR

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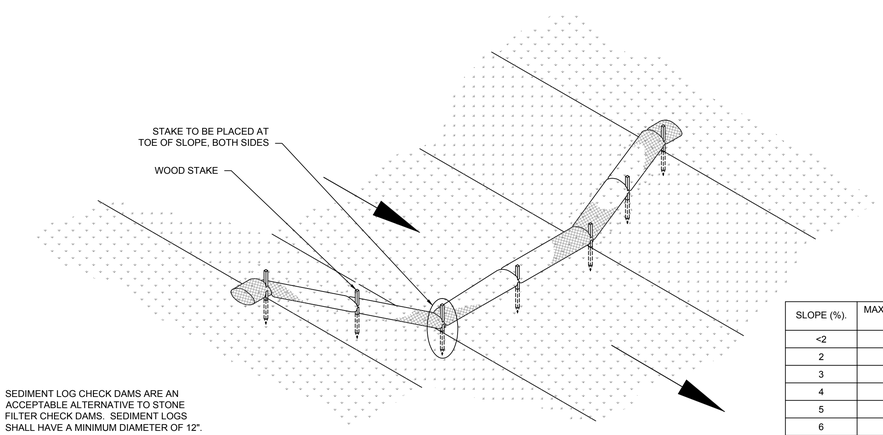

SEDIMENT LOG CHECK DAMS ARE AN ACCEPTABLE ALTERNATIVE TO STONE FILTER CHECK DAMS. SEDIMENT LOGS SHALL HAVE A MINIMUM DIAMETER OF 12".

SLOPE (%).	MAXIMUM SPACING (FEET)
<2	125
2	100
3	75
4	50
5	40
6	30
>6	25

A3 SEDIMENT LOG CHECK DAM DETAIL — CD

NO SCALE

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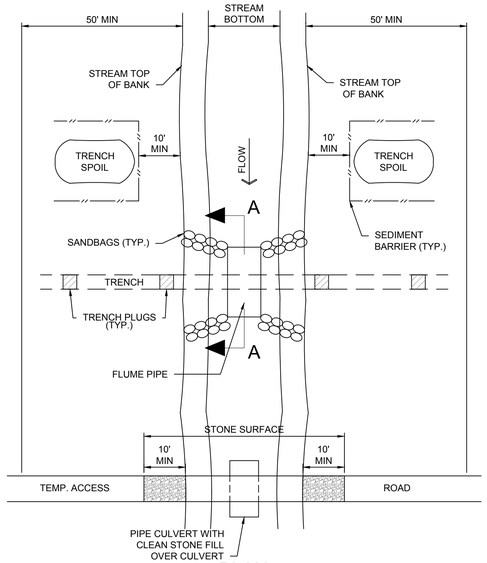
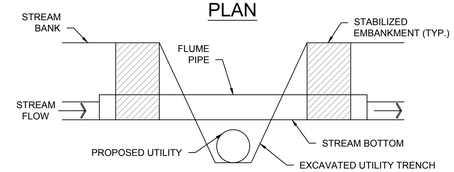


PLAN



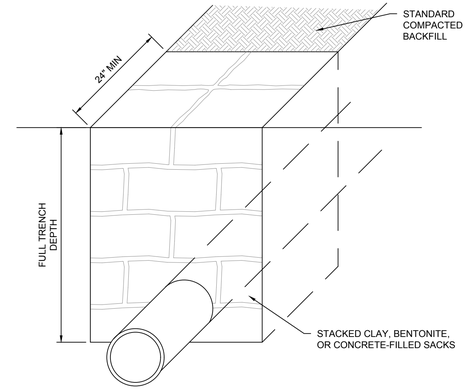
SECTION A-A

NOTES:
1) GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
2) PIPE CULVERT FOR ACCESS ROAD AND FLUME PIPE MAY BE ONE CONTINUOUS PIPE.
3) TRENCH PLUGS FOR ACCESS ROAD SHALL BE INSTALLED WITHIN THE TRENCH ON BOTH SIDES OF THE STREAM CHANNEL.
4) WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY SURFACE WATER.
5) HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF STREAMBANK.
6) ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
7) ALL DISTURBED AREAS WITHIN 50 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS UNLESS OTHERWISE AUTHORIZED. APPROPRIATE STREAMBANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL.

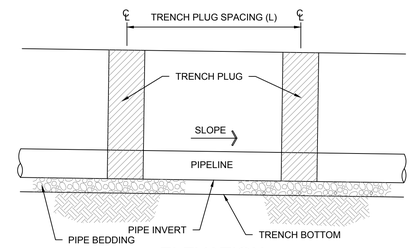
TEMPORARY STREAM DIVERSION FOR UTILITY LINE CROSSING

A3

NO SCALE



SECTION VIEW



ELEVATION

MAXIMUM SPACING AND MATERIALS FOR TRENCH PLUGS

TRENCH SLOPE (%)	SPACING L (FT)	PLUG MATERIAL
< 5	1,000	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
5-15	500	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
15-25	300	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
25-35	200	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
35-100	100	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
> 100	50	CEMENT FILLED BAGS (WETTED) OR MORTARED STONE

NOTES:
* TOPSOIL MAY NOT BE USED TO FILL SACKS

WHERE OPEN-CUT IS SPECIFIED. IMPERVIOUS TRENCH PLUGS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY CROSSINGS.

TRENCH PLUG INSTALLATION

A4

NO SCALE

SSOE®

CONSULTANTS:

WAUFORD
J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

NOT FOR CONSTRUCTION
03/20/2017
SSOE, INC.

SEAL ON THIS DOCUMENT AUTHORIZED BY:

SEAL ID: FULL NAME AND LICENSE NUMBER
DATE: MM/DD/YY

PROJECT INFORMATION:

MEMPHIS REGIONAL MEGASITE
FORCE MAIN 3
TRANSMISSION LINE

CLIENT INFORMATION:

STATE OF TN
SBC PROJECT
529/000-02-2010-17

CLIENT PROJECT NO: 529/000-02-2010

NO.	DATE	SUBJECT
4	3/20/17	ISSUED FOR NPDES PERMIT
3	3/10/17	ISSUED FOR CDP REVIEW
2	2/20/17	ISSUED FOR ARAP PERMIT
1	1/30/17	ISSUED FOR DESIGN DEVELOP.

REVISION OR ISSUE

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7585

PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: E. LANG
CHECKED: C. HARTMAN

DRAWING TITLE:
EROSION CONTROL DETAILS

DRAWING NO:
300-CE-852

C:\dgn\d2221\000\300-CE-852.dwg
DATE: Mar 09, 2017 - 9:44pm USER: I5733