Project Engineer: John N Yaroslaski PE # 60149
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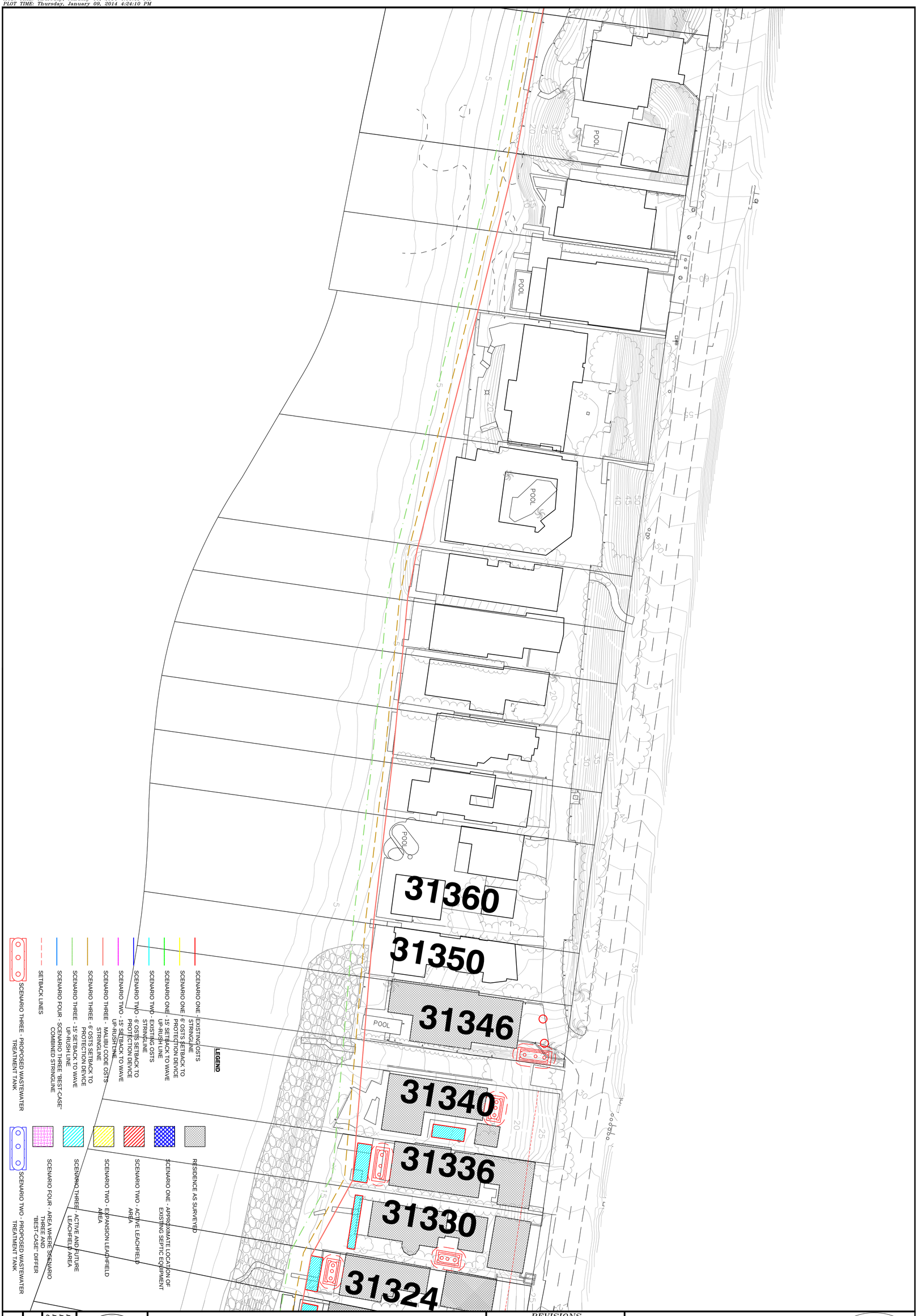

SHEET A13 OF A24

JOB NO. 563-01

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

REGISTERED PROFESSIONAL ENGINEER
JOHNN YAROSLASKI
60149
EXP. 06-2014
CIVIL
STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 01
MALIBU, CALIFORNIA

REVISIONS			
NO.		DATE	BY

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LEGEND

- SCENARIO ONE - EXISTING OSTS STRINGLINE
- SCENARIO ONE - 6' OSTS SETBACK TO PROTECTION DEVICE
- SCENARIO ONE - 15' SETBACK TO WAVE UP-RUSH LINE
- SCENARIO TWO - EXISTING OSTS STRINGLINE
- SCENARIO TWO - 6' OSTS SETBACK TO PROTECTION DEVICE
- SCENARIO TWO - 15' SETBACK TO WAVE UP-RUSH LINE
- SCENARIO THREE - MALIBU CODE OSTS STRINGLINE
- SCENARIO THREE - 6' OSTS SETBACK TO PROTECTION DEVICE
- SCENARIO THREE - 15' SETBACK TO WAVE UP-RUSH LINE
- SCENARIO FOUR - SCENARIO THREE "BEST-CASE" COMBINED STRINGLINE
- SETBACK LINES
- SCENARIO THREE - PROPOSED WASTEWATER TREATMENT TANK
- RESIDENCE AS SURVEYED
- SCENARIO ONE - APPROXIMATE LOCATION OF EXISTING SEPTIC EQUIPMENT
- SCENARIO TWO - ACTIVE LEACHFIELD AREA
- SCENARIO TWO - EXPANSION LEACHFIELD AREA
- SCENARIO THREE - ACTIVE AND FUTURE LEACHFIELD AREA
- SCENARIO FOUR - AREA WHERE SCENARIO THREE AND "BEST-CASE" DIFFER
- SCENARIO TWO - PROPOSED WASTEWATER TREATMENT TANK

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BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 02
MALIBU, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOANNA Y. AROSLASKI
60149
EXP 06-2014
CIVIL
STATE OF CALIFORNIA

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A14 OF A24

Project Engineer: John N Yaroslaski PE # 60149
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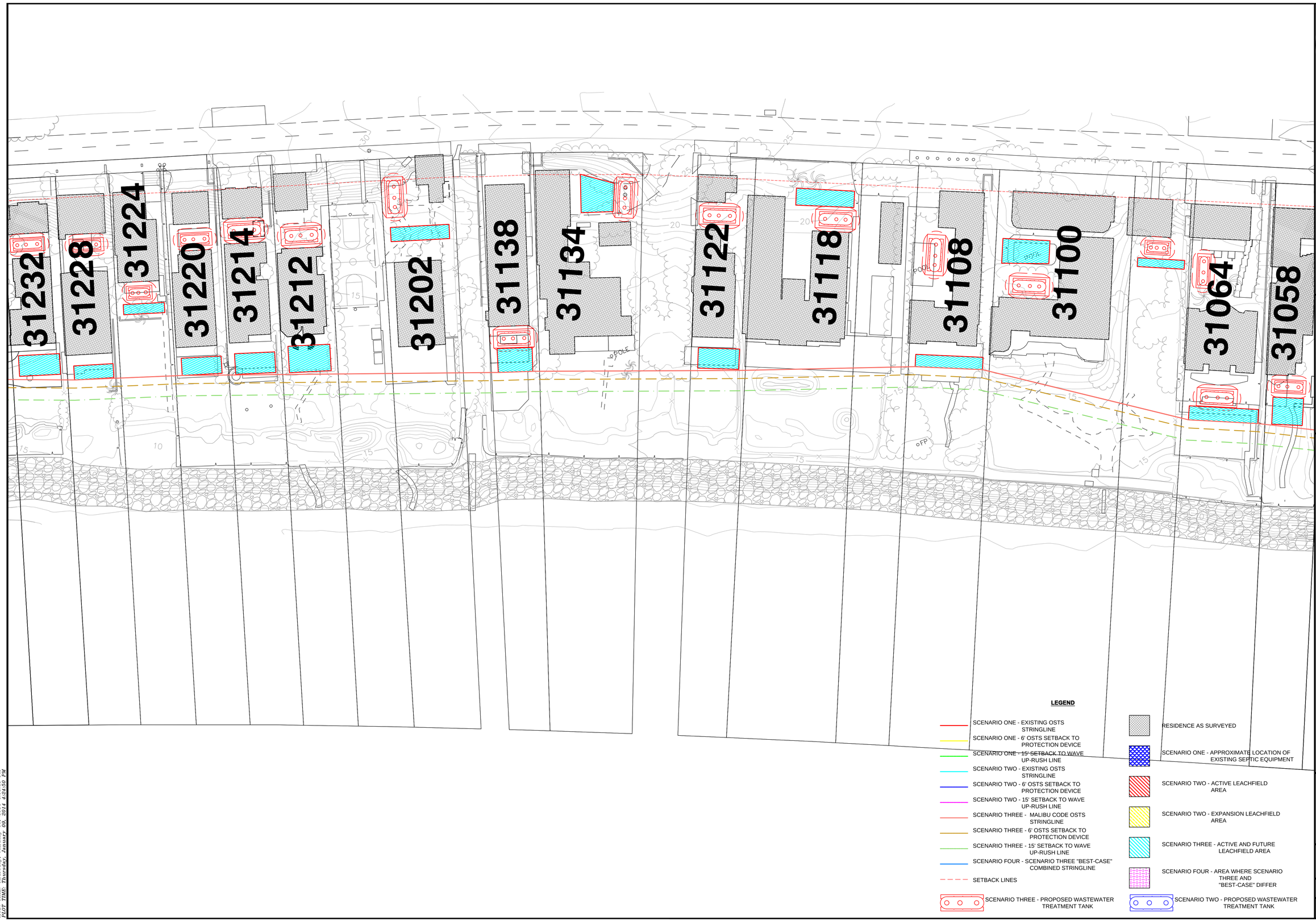

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REVISIONS

NO.	DATE	BY

BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 03
MALIBU, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHN N. YAROSLASKI
60149
EXP 06-2014
CIVIL
STATE OF CALIFORNIA

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A15 OF A24

Project Engineer: John N Yaroslaski PE # 60149
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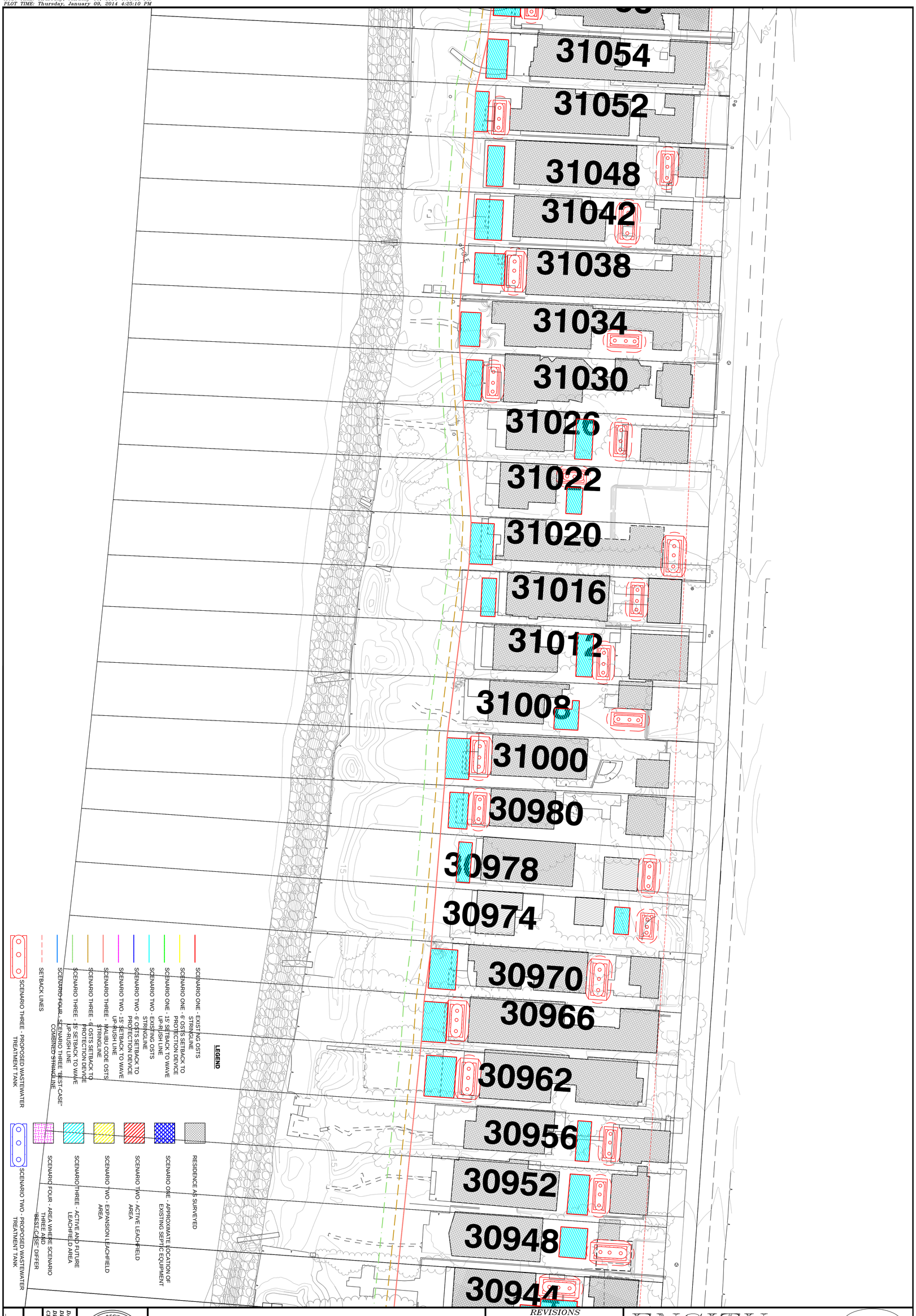

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A16 OF A24

REGISTERED PROFESSIONAL ENGINEER JOHNN. YAROSLASKI 60149 EXP. 06-2014 CIVIL STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 04
MALIBU, CALIFORNIA

REVISIONS			
NO.		DATE	BY

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Project Engineer: John N Yaroslaski PE # 60149
DWG NAME: S:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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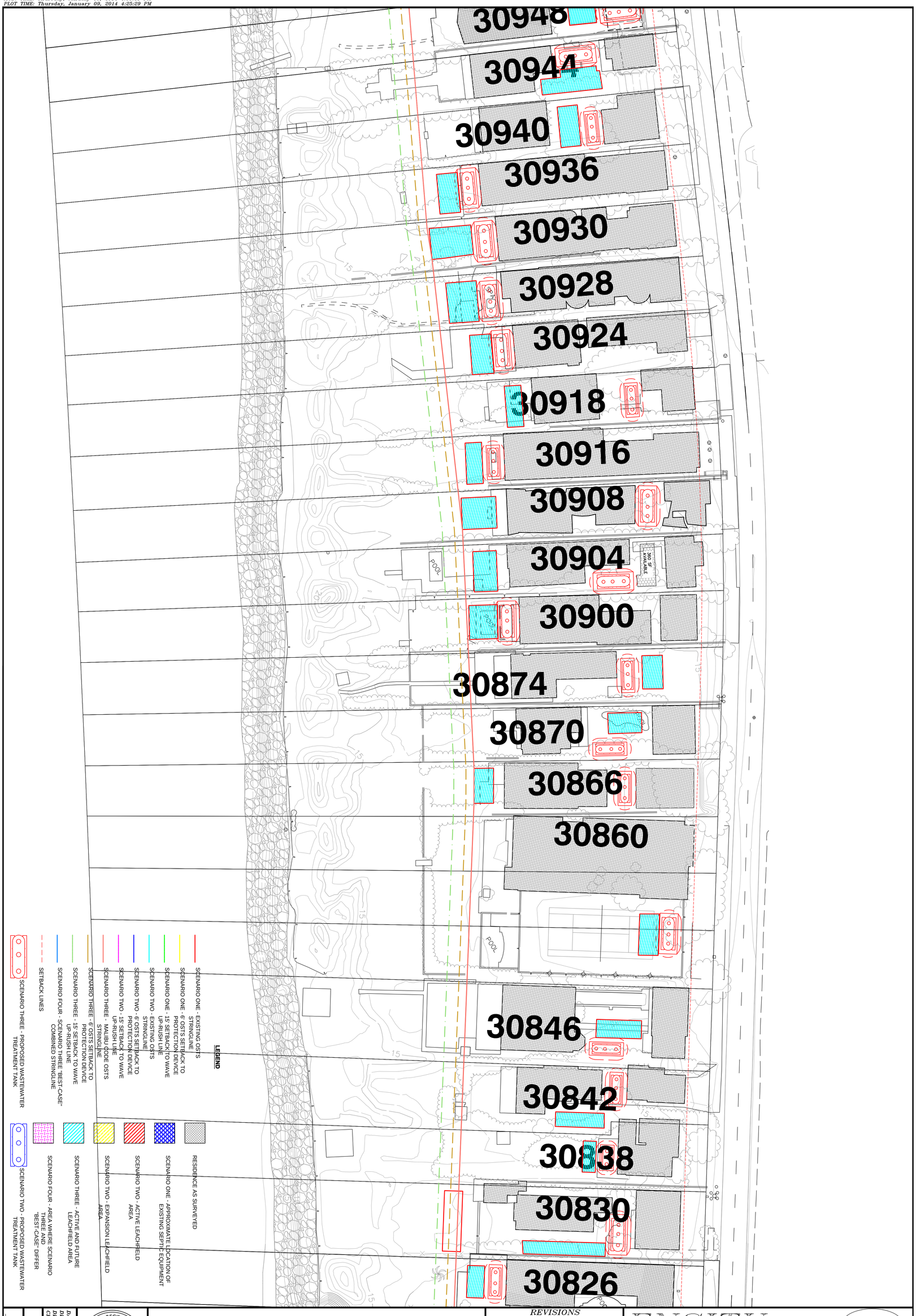

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A17 OF A24

REGISTERED PROFESSIONAL ENGINEER
JOHN N YAROSLASKI
60149
EXP 06-2014
CIVIL
STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 05
MALIBU, CALIFORNIA

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Project Engineer: John N Yaroslaski PE # 60149
DWG NAME: S:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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DATE: 01-2014
DESIGNED BY: JNY
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CHECKED BY: JNY

JOB NO. 563-01

SHEET A18 OF A24

REGISTERED PROFESSIONAL ENGINEER JOHN N YAROSLASKI 60149 EXP. 06-2014 CIVIL STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO THREE – SHEET 06
MALIBU, CALIFORNIA

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Project Engineer: John N Yaroslaski PE # 60149
DWG NAME: S:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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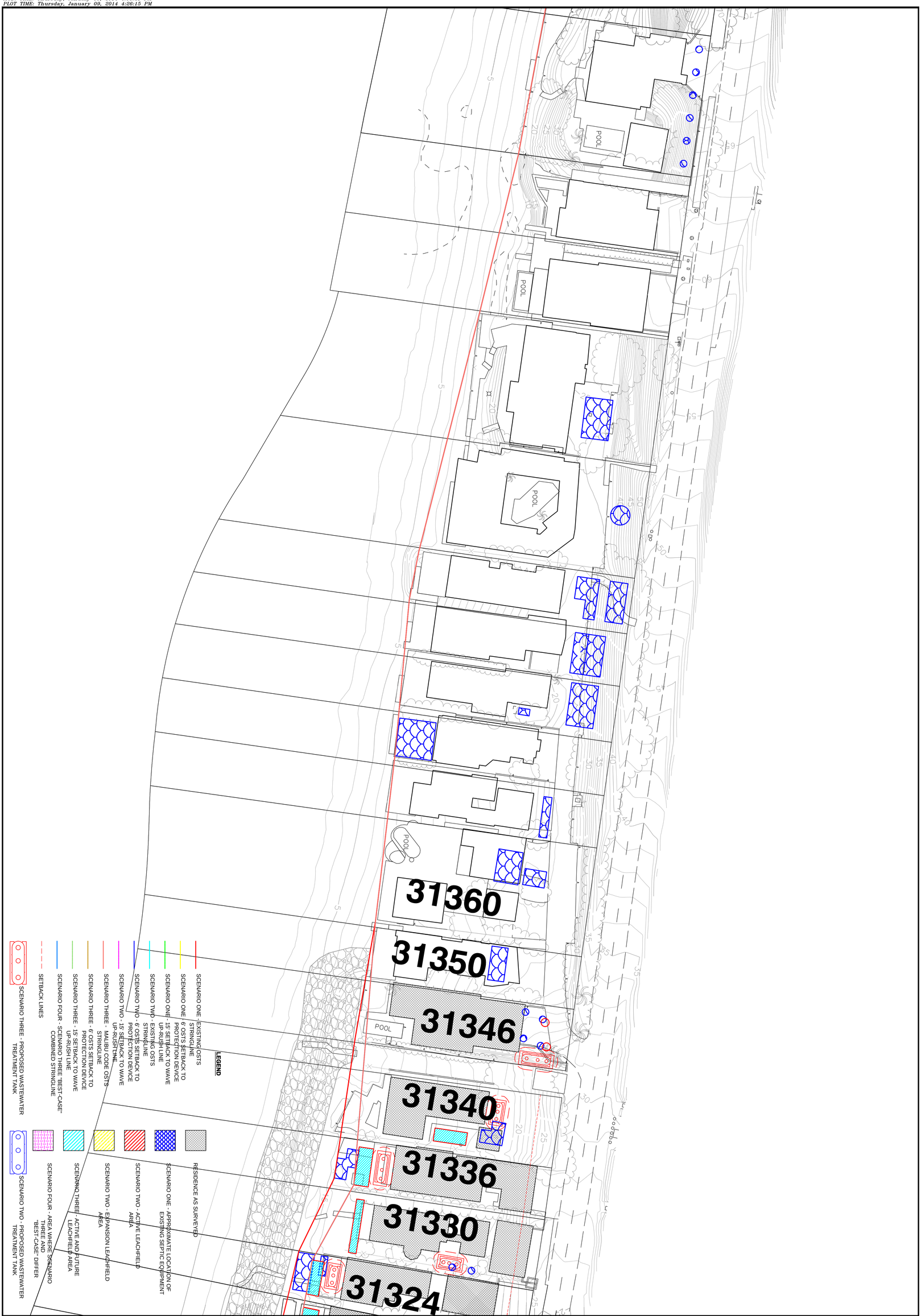

SHEET A13 OF A24

JOB NO. 563-01

DATE: 01-2014
DESIGNED BY: JNY
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REGISTERED PROFESSIONAL ENGINEER
JOHN N YAROSLASKI
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EXP. 06-2014
CIVIL
STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 01
MALIBU, CALIFORNIA

REVISIONS			
NO.		DATE	BY

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Project Engineer: John N Yaroslaski PE # 60149
DWG NAME: S:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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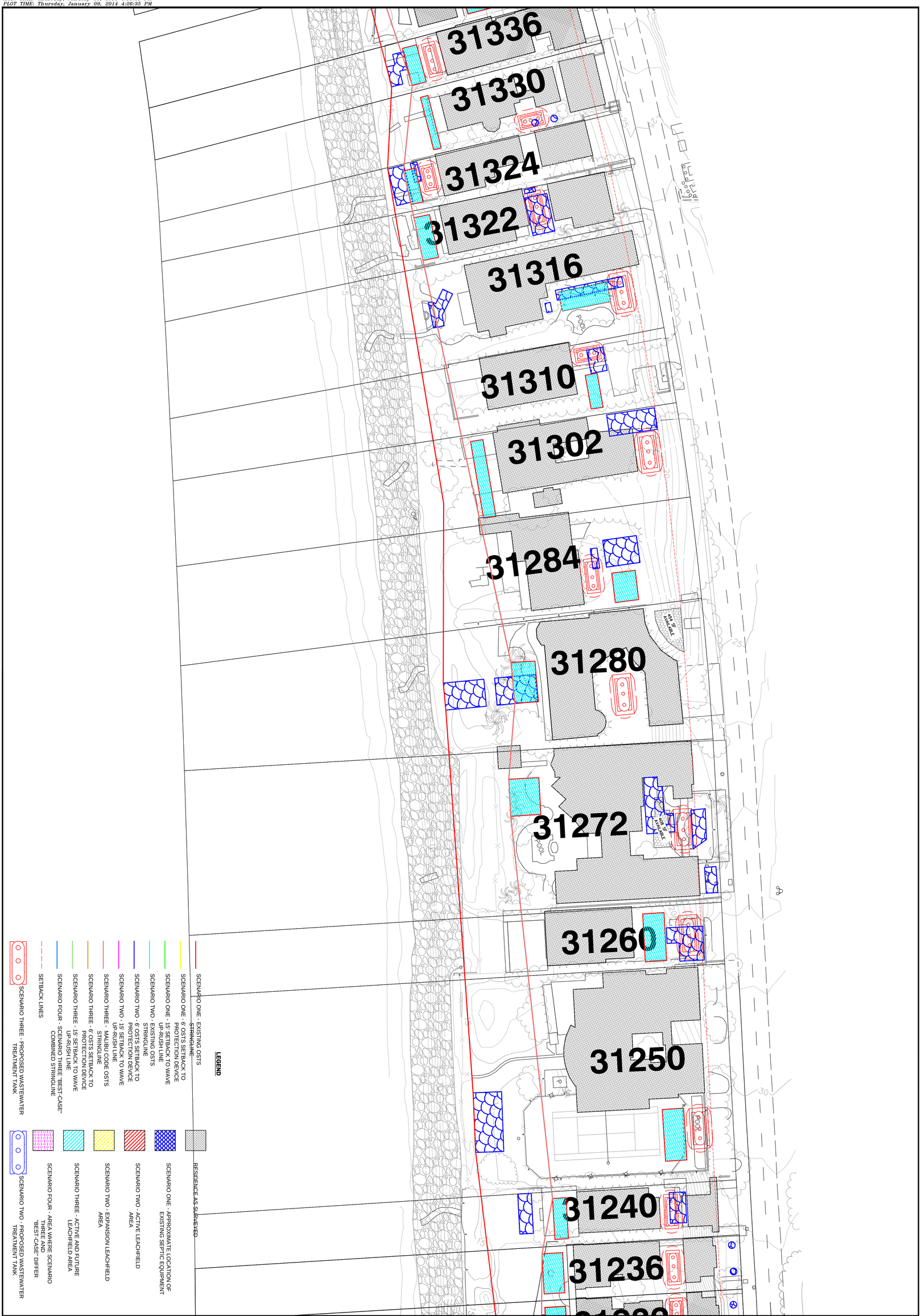

DATE: 01-2014
DESIGNED BY: JNY
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CHECKED BY: JNY

JOB NO. 563-01

SHEET A20 OF A24

REGISTERED PROFESSIONAL ENGINEER JOHN N. YAROSLASKI C 60149 EXP. 06-2014 CIVIL STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 02
MALIBU, CALIFORNIA

REVISIONS			
NO.		DATE	BY

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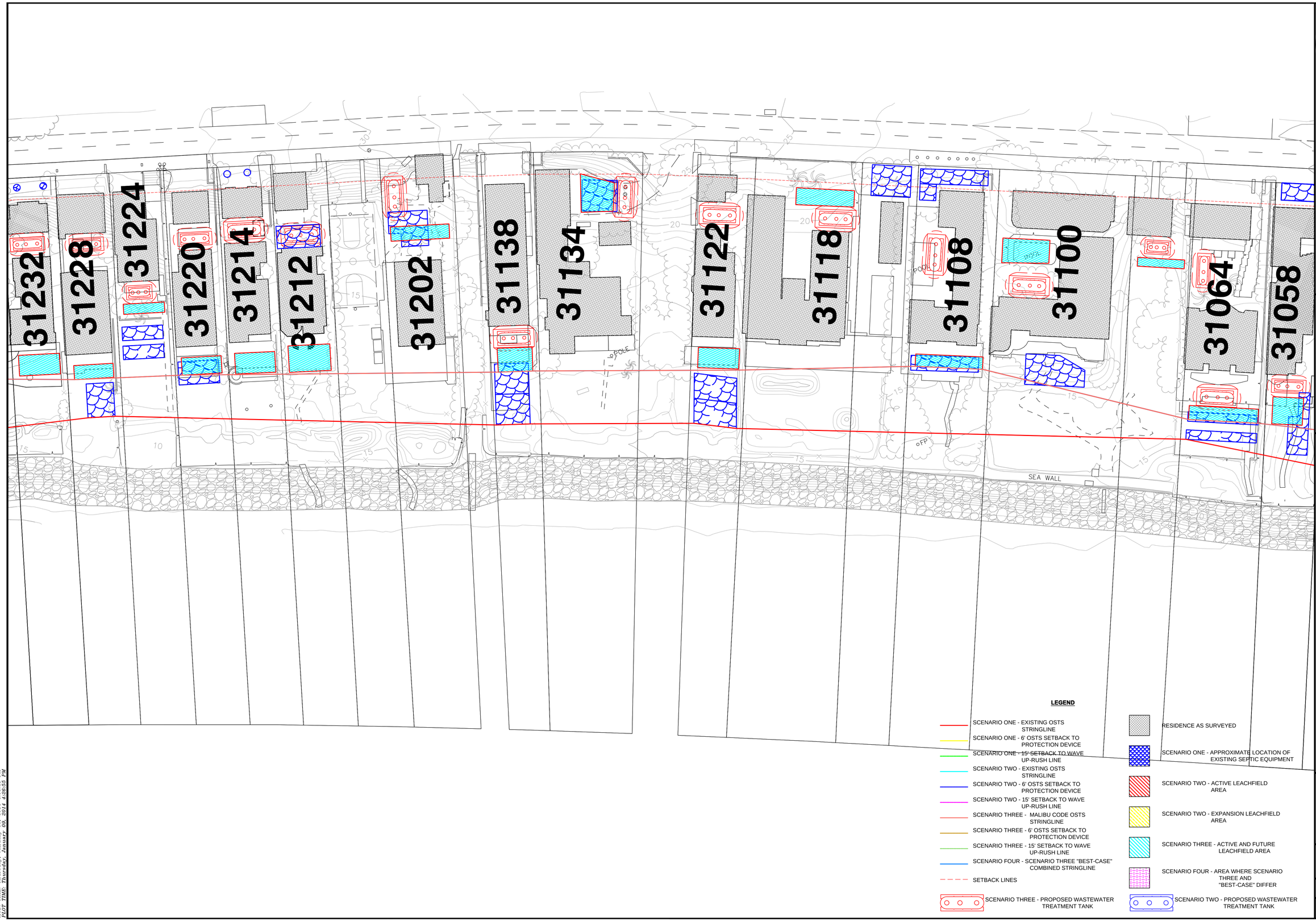

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NO.	DATE	BY

BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 03
MALIBU, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHN N. YAROSLASKI
60149
EXP 06-2014
CIVIL
STATE OF CALIFORNIA

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A15 OF A24

Project Engineer: John N Yaroslaski PE # 60149
Project Name: 563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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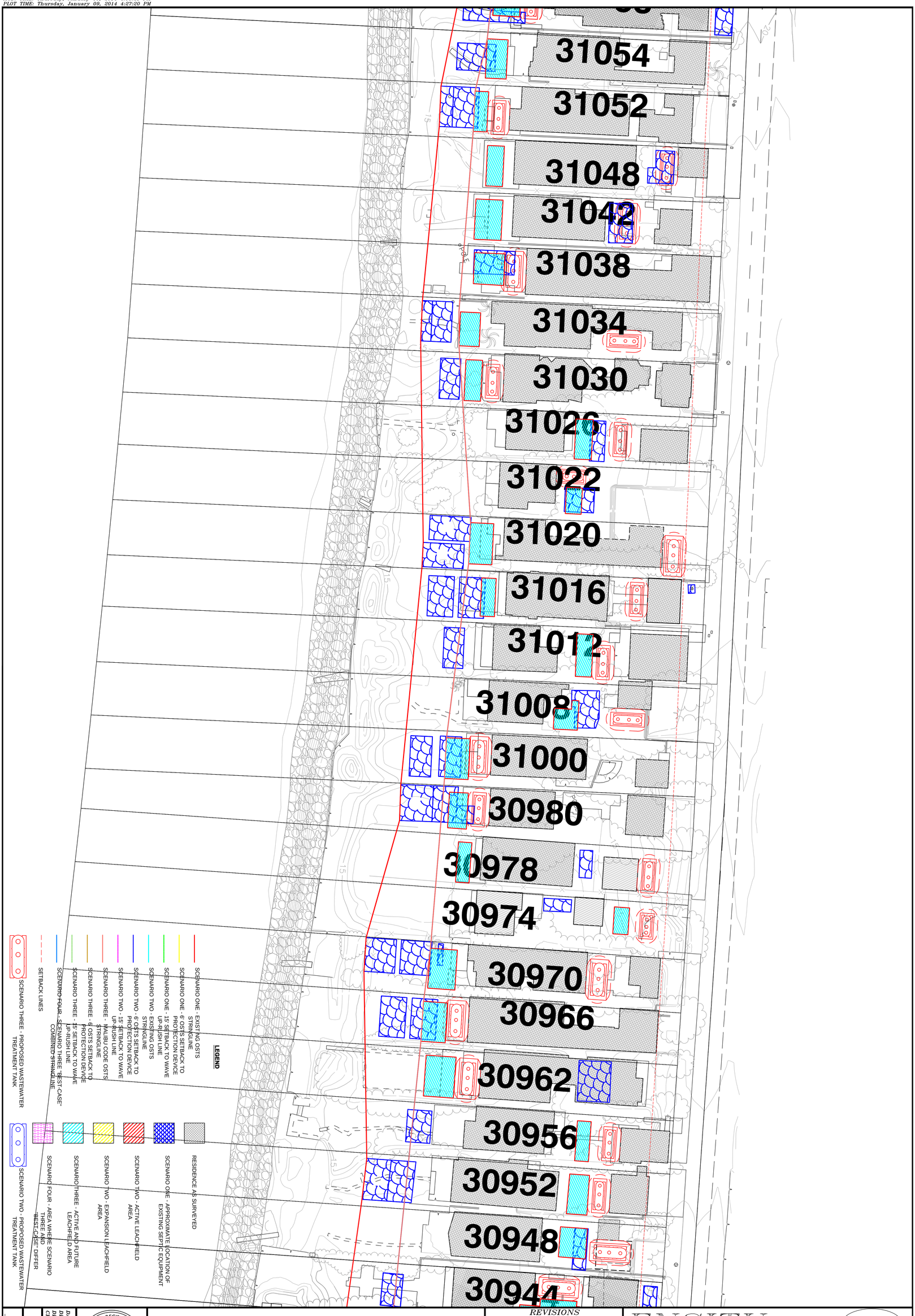

DATE: 01-2014 DESIGNED BY: JNY DRAWN BY: JNY CHECKED BY: JNY	JOB NO. 563-01	SHEET A22 OF A24

REGISTERED PROFESSIONAL ENGINEER
JOHN N. YAROSLASKI
60149
EXP. 06-2014
CIVIL
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BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 04
MALIBU, CALIFORNIA

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Project Engineer: John N Yaroslaski PE # 60149
DWG NAME: S:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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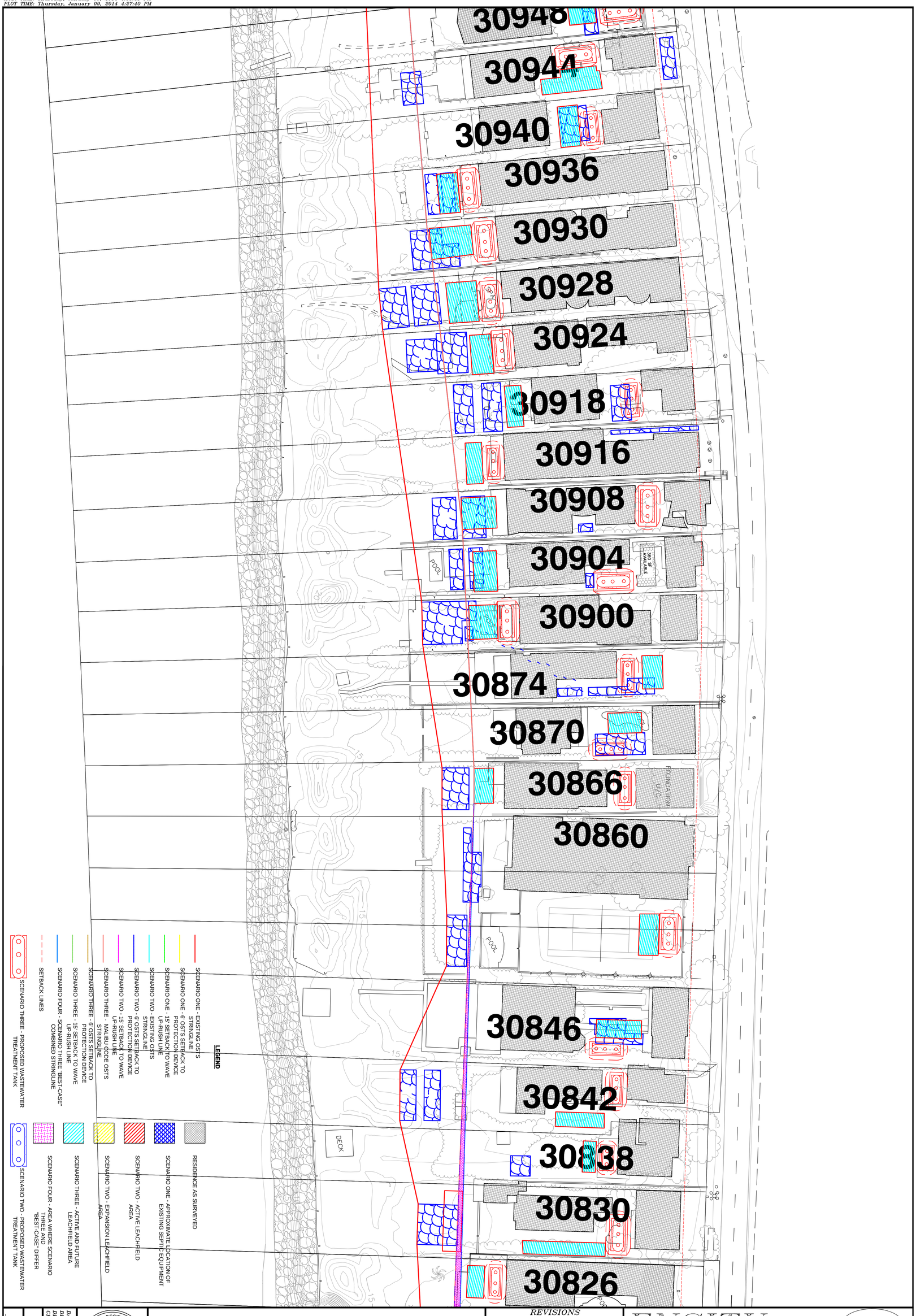

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A23 OF A24

REGISTERED PROFESSIONAL ENGINEER
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EXP 06-2014
CIVIL
STATE OF CALIFORNIA

BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 05
MALIBU, CALIFORNIA

REVISIONS			
NO.		DATE	BY

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Project Engineer: John N Yaroslaski PE # 60149
Project NAME: N:\Ensitu\Projects\563-01 Broad Beach Restoration Project\Engineering\Cad Design\563-01_BroadBeachRestorationProject-011a.dwg
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REVISIONS		
NO.	DATE	BY

BROAD BEACH RESTORATION PROJECT
SCENARIO FOUR – SHEET 06
MALIBU, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
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EXP 06-2014
CIVIL
STATE OF CALIFORNIA

DATE: 01-2014
DESIGNED BY: JNY
DRAWN BY: JNY
CHECKED BY: JNY

JOB NO. 563-01

SHEET A18 OF A24

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Morro Bay, CA
93442

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APPENDIC A2

OSTS Design Summary Table (Malibu Code)
OSTS Design Summary Table (LCP/LIP)

OSTS DESIGN SUMMARY TABLE (LCP/Malibu Code Comparrison)											
Address	Number of Bedrooms	Wastewater Flow in Gallons per Day Malibu Code (gpd)	Wastewater Flow in Gallons per Day (LCP 18.7.N) (gpd)	OSTS Treatment Required Malibu Code	OSTS Treatment Required LCP	OSTS Dispersal Application Rate Malibu Code (gpd/sf)	OSTS Dispersal Application Rate (gpd/sf) (LCP 18.7.O)	Active Leachfield Area Required in Square Feet Malibu Code (sf)	Active Leachfield Area Required in Square Feet (LCP 18.7.O) (sf)	Total Leachfield Area Required in Square Feet Future in same location as Active Malibu Code (sf)	Total Leachfield Area Required in Square Feet (LCP 18.7.O) (sf)
	nB	*QT=QB(nB+1)*	*QT'=QB(nB)*			*DA*	*DA'*	*AA=QT/DA*	*AA'=QT'/DA'*	*AT=AA*	*AT'=2(AA')*
31284	4	750	1,200	ES12	ES12	2	1.2	375	1,000	375	2,000
31260	6	1,050	1,800	ES12	ES25	2	1.2	525	1,500	525	3,000
31228	3	600	900	ES6	ES12	2	1.2	300	750	300	1,500
31122	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500
31118	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500
31108	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500
31064	6	1,050	1,800	ES12	ES25	2	1.2	525	1,500	525	3,000
31054	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500
31042	6	1,050	1,800	ES12	ES25	2	1.2	525	1,500	525	3,000
31030	4	750	1,200	ES12	ES12	2	1.2	375	1,000	375	2,000
31020	6	1,050	1,800	ES12	ES25	2	1.2	525	1,500	525	3,000
31000	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500
30980	4	750	1,200	ES12	ES12	2	1.2	375	1,000	375	2,000
30966	6	1,050	1,800	ES12	ES25	2	1.2	525	1,500	525	3,000
30860	5	900	1,500	ES12	ES25	2	1.2	450	1,250	450	2,500