

# INFINITE LEISURE LLC

## SITE IMPROVEMENT PLANS

### DRIVEWAY IMPROVEMENT NOTES:

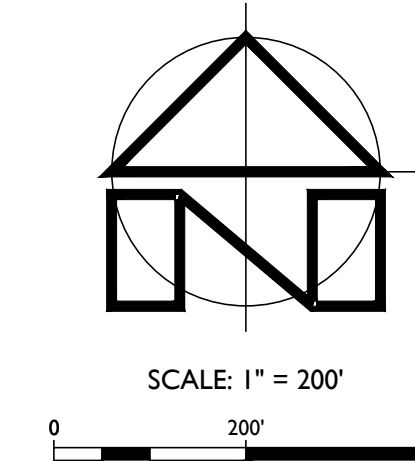
1. THE PROJECT SITE WILL BE ACCESSED VIA AN EXISTING DRIVEWAY AND DIRT ACCESS ROAD FROM GRANDVIEW DRIVE TO THE SUBJECT PARCEL.
2. THE EXISTING DRIVEWAY IS CONSIDERED AN EXISTING RESIDENTIAL DRIVEWAY FROM END OF GRANDVIEW DRIVE (STA 1+00) TO STA 5+50.
3. FROM END OF GRANDVIEW DRIVE (STA 1+00 TO STA 5+50) THE DRIVEWAY SERVES AS PRIMARY ACCESS TO 3 RESIDENCES. THIS SEGMENT OF DRIVEWAY GENERALLY CONFORMS TO THE NAPA COUNTY ROAD AND STREET STANDARDS IN TERMS OF PAVED WIDTH (ONE 10' TRAVEL LANE), 14' OF HORIZONTAL CLEARANCE AND TURNING RADIUS. THIS SECTION WILL BE IMPROVED WITH TURNOUTS AS REQUIRED BY THE STANDARDS.
4. TABLE 15.1 OF THE NAPA COUNTY ROAD AND STREET STANDARDS INDICATES THAT TURNOUTS ARE REQUIRED AT 250' INTERVALS FOR NEW RESIDENTIAL DRIVEWAYS WHERE ONE NEW RESIDENCE AND SECOND DWELLING UNIT IS BEING PROPOSED WHERE THE DRIVEWAY SERVES THREE (3) EXISTING RESIDENCES. FROM STA 1+00 TO STA 5+50 (2) TWO TURNOUTS ARE REQUIRED.
5. FROM STA 5+50 ± TO 19+00 ± IS AN EXISTING RURAL ACCESS ROAD THAT SERVES AS ACCESS TO VARIOUS VINEYARDS THROUGHOUT THE PROPERTY. THIS PORTION AND THE REMAINDER EXTENDING TO STA 26+00 ± IS CONSIDERED AN NEW DRIVEWAY AND WILL BE IMPROVED TO MEET THE RESIDENTIAL DRIVEWAY STANDARDS TO SERVE THE NEW MAIN RESIDENCE, SECOND DWELLING UNIT AND GUEST COTTAGE. THIS 1,350 LF SECTION OF ROAD REQUIRES TURNOUTS AT 400' MAXIMUM SPACING WHICH EQUATES TO THREE (3) TURNOUTS.
6. FROM STATION 19+00 TO THE BUILDING SITE (STA 27+00 +/-), THE DRIVEWAY IS CONSIDERED A NEW DRIVEWAY, AND WILL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE STANDARDS FOR WIDTH, TURNING RADIUS, STRUCTURAL SECTION, ETC. AND TURNOUTS WILL BE PROVIDED AT 400 FOOT MAXIMUM INTERVALS. THIS 800 LF SECTION OF ROAD REQUIRES ONE (1) TURNOUT.

### PROJECT STATEMENT:

THE PURPOSE OF THIS PROJECT IS TO ILLUSTRATE THE SITE IMPROVEMENTS REQUIRED TO SUPPORT THE PROPOSED NEW MAIN RESIDENCE, SECOND DWELLING UNIT AND GUEST COTTAGE.

### FLOOD HAZARD NOTE:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 06055C0515E, EFFECTIVE SEPTEMBER 26, 2008 AND NUMBER 06055C0518G, EFFECTIVE AUGUST 3, 2016, THE PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA.



LOCATION MAP  
SCALE: 1" = 2,000'

### PROJECT INFORMATION:

**PROPERTY OWNER & APPLICANT:**  
INFINITE LEISURE LLC  
1390 NORTH McDOWELL BLVD #G177  
PETALUMA, CA 94954

**SITE ADDRESS:**  
1200 GRANDVIEW DRIVE  
NAPA, CA 94558

**ASSESSOR'S PARCEL NUMBERS:**  
043-061-019 & 043-061-020

**PARCEL SIZE:**  
33.1 ± ACRES & 74.38 ± ACRES RESPECTIVELY

**PROJECT SIZE:**  
2.0 ± ACRES (TOTAL DISTURBED AREA)

**ZONING:**  
AGRICULTURAL WATERSHED (AW)

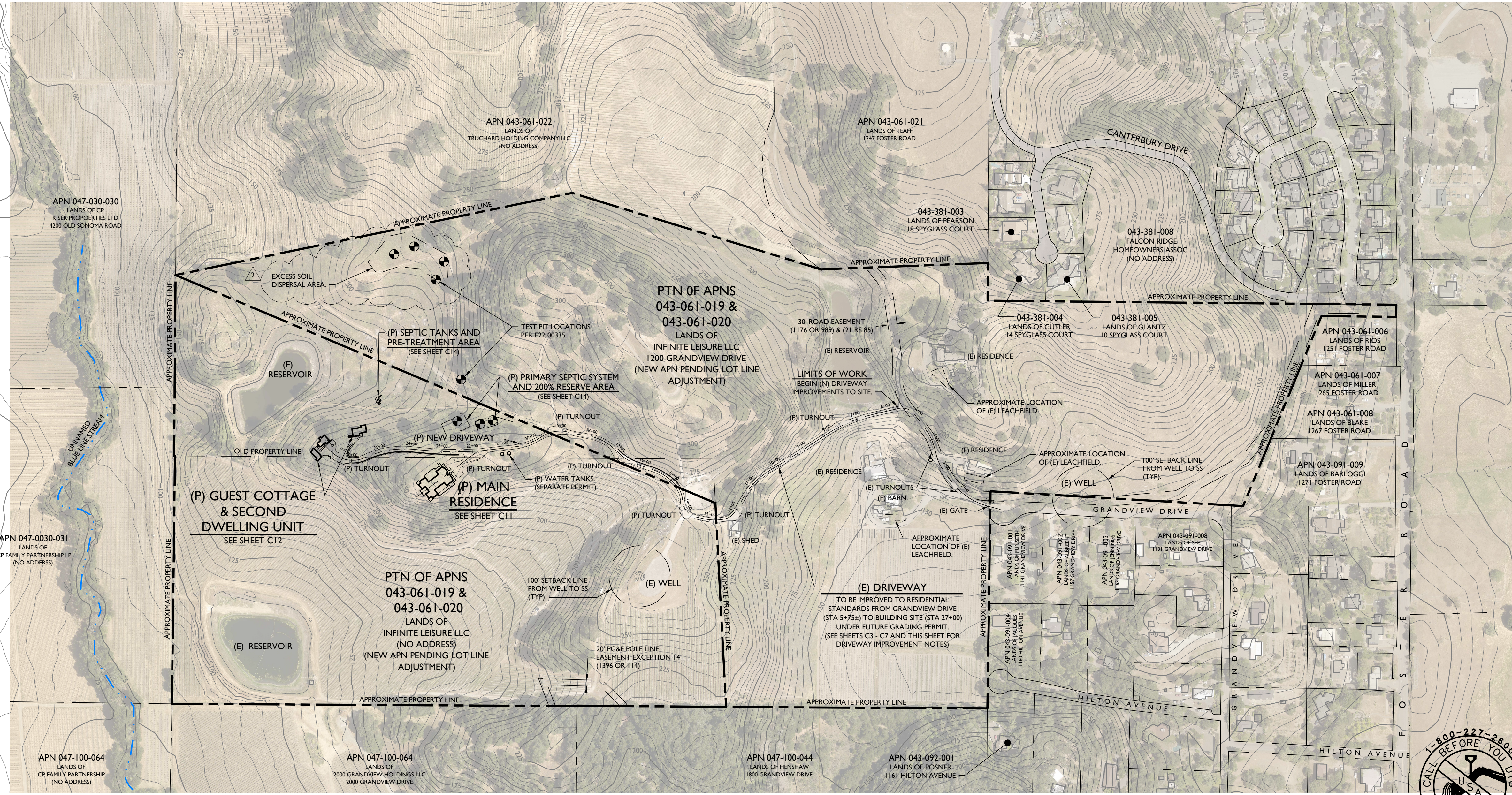
**DOMESTIC WATER SOURCE:**  
CITY OF NAPA (ALL NEW STRUCTURES)  
PRIVATE WELL (ALL EXISTING STRUCTURES)

**FIRE PROTECTION WATER SOURCE:**  
STORAGE TANK

**WASTEWATER DISPOSAL:**  
ONSITE TREATMENT AND DISPERSAL

### SHEET INDEX:

- C1 OVERALL SITE PLAN
- C2 NOTES, ABBREVIATIONS AND LEGEND
- C3 DRIVEWAY PLAN & PROFILE STA 1+00 TO STA 6+50
- C4 DRIVEWAY PLAN & PROFILE STA 6+50 TO STA 12+50
- C5 DRIVEWAY PLAN & PROFILE STA 12+50 TO STA 18+50
- C6 DRIVEWAY PLAN & PROFILE STA 18+50 TO STA 24+50
- C7 DRIVEWAY PLAN & PROFILE STA 24+50 TO STA 27+10±
- C8 MAIN RESIDENCE DRIVEWAY PROFILE STA 100+00 TO STA 200+00
- C9 DRIVEWAY SECTIONS STA 1+00 TO STA 16+50
- C10 DRIVEWAY SECTIONS STA 16+75 TO END & MAIN RESIDENCE
- C11 GRADING PLAN - MAIN RESIDENCE
- C12 GRADING PLAN - SECOND DWELLING UNIT & GUEST COTTAGE
- C13 LAYOUT & OVERALL UTILITY PLAN
- C14 SUBSURFACE DRIP SEPTIC SYSTEM AND SEPTIC TANK LAYOUT PLAN
- C15 SUBSURFACE DRIP SEPTIC SYSTEM DETAILS
- C16 SUBSURFACE DRIP SEPTIC SYSTEM DETAILS
- C17 EROSION & SEDIMENT CONTROL PLAN
- C18 EROSION & SEDIMENT CONTROL DETAILS
- C19 SITE & GRADING DETAILS
- C20 UTILITY DETAILS



OVERALL SITE PLAN  
SCALE: 1" = 200'

PREPARED UNDER THE DIRECTION OF:



DRAWN BY:	SMI
CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY:
4/3/2023	SMI
PERMIT SUBMITTAL	
6/27/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #1	
8/23/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #2	
JOB NUMBER:	22-117
FILE:	22-117IMP_COV.DWG
ORIGINAL SIZE:	24" X 36"
SHEET NUMBER:	





GENERAL NOTES:

- 1. THESE DRAWINGS WERE DEVELOPED EXCLUSIVELY FOR THIS PROJECT AND ARE NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF APPLIED CIVIL ENGINEERING INCORPORATED.
2. ALL MATERIALS AND WORKMANSHIP FOR THE WORK DESCRIBED ON THESE PLANS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AS ADOPTED AND AMENDED BY NAPA COUNTY:
A. CALIFORNIA BUILDING CODE (2022)
B. CALIFORNIA ELECTRIC CODE (2022)
C. CALIFORNIA PLUMBING CODE (2022)
D. CALIFORNIA MECHANICAL CODE (2022)
E. CALIFORNIA FIRE CODE (2022)
F. CALIFORNIA DEPARTMENT OF TRANSPORTATION (2022)
G. NAPA COUNTY CODE (CURRENT)

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR BEING FAMILIAR WITH ALL STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

- 3. CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK SHOWN ON THESE PLANS.
4. CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO CONSTRUCT THE IMPROVEMENTS ILLUSTRATED ON THESE PLANS.
5. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS AND PRODUCTS TO BE USED FOR THE SITE IMPROVEMENTS TO APPLIED CIVIL ENGINEERING INCORPORATED FOR REVIEW AND APPROVAL.
6. THE IMPROVEMENTS SHOWN ON THESE PLANS REQUIRE INSPECTION BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS.
7. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH APPLIED CIVIL ENGINEERING INCORPORATED AND NAPA COUNTY AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO REVIEW THE PROJECT PLANS AND SPECIFICATIONS AND NAPA COUNTY REQUIREMENTS.
8. CONTRACTOR IS RESPONSIBLE FOR SECURING ALL CONSTRUCTION RELATED PERMITS FROM THE GOVERNING AGENCIES AND MAINTAINING A COPY OF THE PERMITS AND THE APPROVED PLANS ON THE JOB SITE AT ALL TIMES.
9. ALL WORK DONE WITHIN THE CITY RIGHT OF WAY SHALL BE DONE UNDER AN ENCROACHMENT PERMIT ISSUED BY CITY OF NAPA COUNTY PUBLIC WORKS DEPARTMENT.
10. CONTRACTOR SHALL CONTACT THE NAPA COUNTY PUBLIC WORKS, FIRE AND SHERIFF DEPARTMENTS TO PROVIDE EMERGENCY TELEPHONE NUMBERS AND KEEP THE DEPARTMENTS INFORMED DAILY OF ANY STREETS THAT ARE UNDER CONSTRUCTION AND DETOURS. DETOURS ARE NOT PERMITTED UNLESS APPROVED IN ADVANCE IN WRITING BY THE NAPA COUNTY PUBLIC WORKS DEPARTMENT.
11. THE PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS FOR WORK WITHIN ANY RIPARIAN AREA PRIOR TO COMMENCING WORK IN THAT AREA.
12. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS AND THE SAFETY OF PROPERTY AND PEOPLE ON THE JOB SITE AT ALL TIMES. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE CONDITION, IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS, AT ALL TIMES, INCLUDING OUTSIDE OF NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
13. CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND THE OWNER.
14. THESE PLANS ARE INTENDED TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR THE PROPOSED SITE IMPROVEMENTS SHOWN HEREON.
15. ALL DIMENSIONS SHOWN ON THESE PLANS SHOW MEASUREMENTS IN A HORIZONTAL PLANE UNLESS OTHERWISE SPECIFIED.
16. ALL WRITTEN DIMENSIONS SUPERCEDE ANY SCALED DIMENSIONS. IF AN APPARENT DISCREPANCY IS IDENTIFIED CONTACT APPLIED CIVIL ENGINEERING INCORPORATED IMMEDIATELY FOR A WRITTEN CLARIFICATION.
17. IF ANY CONTRACTOR, SUBCONTRACTOR, OR SURVEYOR IDENTIFIES ANY OMISSIONS, DEFICIENCIES, CONFLICTS OR ERRORS IN THESE PLANS AND SPECIFICATIONS OR IF THERE IS ANY DOUBT AS TO THEIR MEANING OR INTENT, THEY SHALL CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR A WRITTEN ADDENDUM OR CLARIFICATION. CONTRACTOR IS NOT ELIGIBLE FOR ADDITIONAL COMPENSATION IF THEY FAIL TO DO SO BEFORE PROVIDING A PROPOSAL.
18. CONTRACTOR IS TO PROTECT ALL EXISTING SITE IMPROVEMENTS, UTILITIES, BUILDINGS AND NATURAL FEATURES FROM DAMAGE THROUGHOUT THE DURATION OF CONSTRUCTION. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
19. IN THE EVENT THAT ARCHEOLOGICAL ARTIFACTS OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL CEASE IN A 50-FOOT RADIUS SURROUNDING THE AREA OF DISCOVERY. THE PERMITTEE SHALL CONTACT NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT AT (707) 253-4417 FOR FURTHER GUIDANCE, WHICH WILL LIKELY INCLUDE THE REQUIREMENT FOR THE PERMITTEE TO HIRE A QUALIFIED PROFESSIONAL TO ANALYZE THE ARTIFACTS ENCOUNTERED AND TO DETERMINE IF ADDITIONAL MEASURES ARE REQUIRED.

IF HUMAN REMAINS ARE ENCOUNTERED DURING THE DEVELOPMENT, ALL WORK IN THE VICINITY MUST BE, BY LAW, HALTED, AND THE NAPA COUNTY CORONER INFORMED, SO THAT THE CORONER CAN DETERMINE IF AN INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE NEAREST TRIBAL RELATIVES AS DETERMINED BY THE STATE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED BY THE PERMITTEE TO OBTAIN RECOMMENDATIONS FOR TREATING OR REMOVAL OF SUCH REMAINS, INCLUDING GRAVE GOODS, WITH APPROPRIATE DIGNITY, AS REQUIRED UNDER PUBLIC RESOURCES CODE SECTION 5097.98.

EXISTING UTILITY NOTES:

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. THEY ARE BASED ON INFORMATION PROVIDED BY THE PROPERTY OWNER, THE SURVEYOR AND THE RESPECTIVE UTILITY COMPANIES. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR THE COMPLETENESS OF THEIR LOCATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. IF A DISCREPANCY BETWEEN THE PLANNED AND ACTUAL HORIZONTAL OR VERTICAL LOCATION OF AN EXISTING UTILITY EXISTS, CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR AN ALTERNATE DESIGN.
3. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO MARK THE LOCATION OF EXISTING UTILITY LINES. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600.
4. EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES PER THE REQUIREMENTS OF THE UTILITY OWNER.
5. CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY RELOCATIONS WITH THE UTILITY OWNER.

SURVEY NOTES:

- 1. FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES. TOPOGRAPHIC INFORMATION ON SHEET C1 WAS TAKEN FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM DATABASE. TOPOGRAPHIC INFORMATION ON OTHER SHEETS WAS TAKEN ON FROM THE "MAP OF TOPOGRAPHY OF THE LANDS OF INFINITE LEISURE LLC" PREPARED BY ALBION SURVEYS, INC., DATED FEBRUARY 6, 2023. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR COMPLETENESS OF THE TOPOGRAPHIC INFORMATION.
2. AERIAL PHOTOGRAPHS ARE NADIR IMAGES CAPTURED BY PICTOMETRY INTERNATIONAL DATED JULY 15, 2021 AND MAY NOT REPRESENT CURRENT CONDITIONS.
3. CONTOUR INTERVAL:
SHEET C1: FIVE (5) FEET, HIGHLIGHTED EVERY TWENTY FIVE (25) FEET.
OTHER SHEETS: ONE (1) FOOT, HIGHLIGHTED EVERY FIVE (5) FEET.
4. ELEVATION DATUM: NAVD 88

- 5. THE PROPERTY LINES SHOWN ON THESE PLANS DO NOT REPRESENT A BOUNDARY SURVEY. THEY ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
6. CONTRACTOR SHALL PRESERVE ALL EXISTING MONUMENTS THROUGHOUT THE DURATION OF CONSTRUCTION OR HAVE THEM REPLACED AT THEIR OWN EXPENSE. IF MONUMENTS ARE DISTURBED THEY NEED TO BE RE-SET BY A LICENSED LAND SURVEYOR AND A CORNER RECORD MUST BE FILED.
7. ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.

GRADING NOTES:

- 1. ALL EARTHWORK IS TO CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, NAPA COUNTY CONSERVATION REGULATIONS, NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT - ENGINEERING DIVISION STANDARDS AND THE PROJECT GEOTECHNICAL REPORT.
2. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY RGH CONSULTANTS (JOB NUMBER 7593.01.01.2) FOR DETAILED EARTHWORK REQUIREMENTS, THE GEOTECHNICAL REPORT AND ALL RECOMMENDATIONS CONTAINED THEREIN SHALL BE CONSIDERED A PART OF THESE PLANS AND ALL GRADING WORK IS REQUIRED TO BE IN ACCORDANCE WITH SAID REPORT AND IS TO BE PERFORMED UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.
3. ALL CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2:1 UNLESS OTHERWISE APPROVED BY A GEOTECHNICAL ENGINEER.
4. ALL DEBRIS GENERATED DURING DEMOLITION, SITE STRIPPING AND GRADING ACTIVITIES IS TO BE DISPOSED OF PROPERLY OFFSITE BY THE CONTRACTOR.
5. CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND / OR EXPORTING MATERIALS AS NECESSARY TO ACHIEVE THE FINISH GRADES ILLUSTRATED ON THESE PLANS.
6. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN A MANNER THAT PREVENTS WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES.
7. CONTRACTOR SHALL CONFORM TO EXISTING IMPROVEMENTS WITH A SMOOTH TRANSITION TO AVOID ABRUPT CHANGES IN GRADE, LOW SPOTS OR OTHER HAZARDOUS CONDITIONS.
8. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL FINISH GRADED SLOPES AFTER THE COMPLETION OF CONSTRUCTION AND REPAIRING ANY EROSION DAMAGE.

UTILITY NOTES:

WATER PIPING NOTES:

- 1. ALL WATER PIPE 3" IN DIAMETER AND SMALLER IS TO BE SCHEDULE 40 PVC. ALL JOINTS AND FITTINGS ARE TO BE SOCKET TYPE SOLVENT WELD.
2. ALL WATER PIPE 4" IN DIAMETER AND LARGER IS TO BE C900 CLASS 200 PVC OR DUCTILE IRON PIPE WITH DUCTILE IRON FITTINGS. ALL DUCTILE IRON PIPE AND FITTINGS ARE TO BE WRAPPED IN POLYETHYLENE PER THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL WATER PIPE FOR THE FIRE PROTECTION SYSTEM IS TO BE INSTALLED IN ACCORDANCE WITH NFPA 24 REQUIREMENTS.
4. CONFIRM FIRE PROTECTION WATER PIPE SIZES WITH FIRE PROTECTION SYSTEM DESIGNER PRIOR TO CONSTRUCTION.

STORM DRAIN PIPING NOTES:

- 1. ALL STORM DRAIN PIPE 8" IN DIAMETER AND SMALLER IS TO BE SDR 35 PVC UNLESS OTHERWISE NOTED.
2. ALL STORM DRAIN PIPE 12" IN DIAMETER AND LARGER IS TO BE ADS N-12 WITH WATER TIGHT JOINTS UNLESS OTHERWISE NOTED.
3. ALL 4" DIAMETER STORM DRAIN PIPE IS TO BE INSTALLED WITH A MINIMUM SLOPE OF 1% UNLESS OTHERWISE NOTED.
4. ALL 6" AND LARGER STORM DRAIN PIPE IS TO BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% UNLESS OTHERWISE NOTED.
5. DOWNSPOUT LOCATIONS ARE APPROXIMATE. VERIFY LOCATION OF CONNECTION POINTS PRIOR TO CONSTRUCTION. ALL DOWN SPOUT LEADERS ARE TO BE 4" SDR 35 PVC UNLESS OTHERWISE NOTED.
6. ALL STORM DRAIN PIPE WITH LESS THAN ONE FOOT OF COVER (FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF CONCRETE) IS TO BE BACKFILLED WITH LIME CONCRETE.

ELECTRICAL UTILITY NOTES:

- 1. SEE ELECTRICAL DRAWINGS FOR ONSITE POWER DISTRIBUTION.

GAS UTILITY NOTES:

- 1. SEE PLUMBING PLANS FOR GAS PIPING SPECIFICATIONS.

EROSION CONTROL & STORMWATER QUALITY NOTES:

- 1. ALL DISTURBED AREAS MUST BE WINTERIZED BY OCTOBER 15TH OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION.
2. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND OCTOBER 15TH MAY BE GRANTED BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT IF A MAJORITY OF THE GRADING HAS BEEN COMPLETED AND THERE COULD BE A DETRIMENTAL EFFECT ON THE ENVIRONMENT IF THE REMAINING GRADING REMAINS INCOMPLETE. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND OCTOBER 15TH MUST BE SUBMITTED IN WRITING TO NAPA COUNTY NO LATER THAN OCTOBER 1ST. GRADING BEYOND THE WINTERIZATION DEADLINE WILL NOT BE ALLOWED PRIOR TO APPROVAL BY NAPA COUNTY.
3. ALL PERMANENT DRAINAGE FACILITIES AND SEDIMENT RETENTION STRUCTURES MUST BE INSTALLED BY OCTOBER 1ST.
4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (WATER BARS, SILT FENCE & STRAW WATTLES) MUST BE INSTALLED BY OCTOBER 15TH.
5. ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE RAINY SEASON (OCTOBER 15TH THROUGH APRIL 1ST). INSPECTIONS MUST BE PERFORMED AT LEAST ONCE PER WEEK DURING EXTENDED DRY PERIODS, IMMEDIATELY BEFORE ANTICIPATED RAIN EVENTS, ONCE EVERY 24 HOURS DURING EXTENDED RAIN EVENTS AND IMMEDIATELY FOLLOWING EACH RAIN EVENT.
6. ALL DISTURBED AREAS ARE TO BE STABILIZED BY PLANTING OF AN EROSION CONTROL COVER CROP. PRIOR TO APPLYING THE EROSION CONTROL SEED BLEND, THE SEED BED SHOULD BE PREPARED BY UNIFORMLY SCARIFYING THE GROUND SURFACE TO A DEPTH OF TWO TO FOUR INCHES AND CONDITIONING TO BREAK UP LARGE PEDS.
7. THE COVER CROP SEED BLEND SHOULD BE BROADCAST OR DRILLED AFTER THE SEED BED HAS BEEN PREPARED.
8. THE COVER CROP SEED MIX SHOULD BE APPLIED AT THE FOLLOWING RATES:

Table with 2 columns: Seed Name, Rate (LB/ACRE). Includes Blando Brome (25 LB/ACRE), Zorro Fescue (10 LB/ACRE), Crimson Clover (5 LB / ACRE), Rose Clover (8 LB/ACRE).

- 9. ALL SEEDED AREAS ARE TO BE FERTILIZED TO PROMOTE SUCCESSFUL ESTABLISHMENT OF THE COVER CROP. THE RECOMMENDED FERTILIZER IS AMMONIUM PHOSPHATE (16-20-0) APPLIED AT A RATE OF 250 POUNDS PER ACRE.
10. AFTER THE SEED AND FERTILIZER HAVE BEEN PLACED THE SEEDED AREA SHOULD BE RAKED, DRAGGED OR HARROWED TO ENSURE THAT SEEDS ARE PROPERLY BEDDED.
11. ALL DISTURBED AREAS ARE TO BE MULCHED WITH STRAW AT A RATE OF 3,000 POUNDS PER ACRE TO PROTECT THE BARE SOILS WHILE THE COVER CROP IS GETTING ESTABLISHED.
12. STRAW SHOULD BE SPREAD BY HAND IN A MANNER THAT PROMOTES FORMATION OF AN INTERWOVEN MATRIX. CRIMPING STRAW INTO THE SOIL IS HIGHLY RECOMMENDED ESPECIALLY ON WINDY SITES AND IS MANDATORY ON SITES WHERE STRAW IS MECHANICALLY CHOPPED AND BLOWN INTO PLACE.
13. ALL SOIL CUT AND FILL SLOPES THAT ARE STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) AND ALL DRAINAGE SWALES MUST BE COVERED WITH NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET AFTER THE EROSION CONTROL SEED AND FERTILIZER HAVE BEEN PLACED.
14. CONTRACTOR MUST MAINTAIN AN ADEQUATE SUPPLY OF EROSION CONTROL MATERIALS ONSITE TO FACILITATE MAINTENANCE AND REPAIR THROUGHOUT THE RAINY SEASON. TYPICAL MATERIALS THAT SHOULD BE KEPT ONSITE INCLUDE SILT FENCE AND STRAW WATTLE SEDIMENT BARRIERS, GRAVEL BAGS, EROSION CONTROL BLANKETS, STRAW AND EROSION CONTROL SEED MIX.

- 15. ALL SEEDED AREAS MUST BE INSPECTED FOR FAILURES DURING THE RAINY SEASON AND REPAIRED IMMEDIATELY BY TEMPORARY MULCHING OR OTHER REVEGETATION PRACTICES.
16. AREAS EXPOSED TO EXCESSIVE WIND AND VEHICLE TRAFFIC SHOULD BE INSPECTED DAILY FOR DUST CONTROL. SPRINKLE THE EXPOSED AREA WITH WATER OR APPLY STABILIZERS AT APPROPRIATE INTERVALS BASED ON NEED. DO NOT SPRINKLE EXCESSIVELY AND CAUSE NON-STORM WATER DISCHARGE FROM THE SITE.
17. INSPECT ALL SEDIMENT BARRIERS, INLET PROTECTION DEVICES AND OTHER STORM WATER QUALITY BEST MANAGEMENT PRACTICES BEFORE AND AFTER RAINFALL EVENTS AND WEEKLY THROUGHOUT THE RAINY SEASON. DURING EXTENDED RAINFALL EVENTS, INSPECT INLET PROTECTION DEVICES AT LEAST ONCE EVERY 24 HOURS. PROPERLY DISPOSE OF ACCUMULATED SEDIMENT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
18. WASTE COLLECTION AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES AND STORM WATER CONVEYANCE SYSTEMS.
19. DUMPSTERS SHALL BE SECURELY COVERED AT NIGHT AND DURING WET WEATHER. DUMPSTERS SHALL BE INSPECTED FREQUENTLY FOR LEAKS. ANY LEAKING MATERIAL FROM DUMPSTER SHALL BE COLLECTED AND PROPERLY DISPOSED OF. CONTRACTOR SHALL ARRANGE FOR ADEQUATE DEBRIS DISPOSAL SCHEDULES TO ENSURE DUMPSTERS DO NOT OVERFLOW.

- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND SWEEPING ROADWAYS AND PAVED AREAS WHERE WORK IS BEING CONDUCTED AT THE END OF EACH WORKING DAY. SWEEPING IS NOT EFFECTIVE IF SEDIMENT IS WET OR CAKED. WET OR CAKED SEDIMENT SHALL BE SCRAPPED.
21. CONTRACTOR SHALL MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES TO MINIMIZE POTENTIAL FOR STORM WATER CONTAMINATION.
22. CONTRACTOR SHALL ROUTINELY POLICE THE CONSTRUCTION SITE FOR LITTER AND DEBRIS.
23. ANY HAZARDOUS WASTE GENERATED FROM THE SITE SHALL BE PROPERLY LABELED AND SHALL BE DISPOSED OF AT AUTHORIZED TREATMENT, STORAGE AND DISPOSAL FACILITIES.

- 24. TEMPORARY HAZARDOUS WASTE MATERIAL STORAGE SHALL BE LOCATED AWAY FROM ALL WATER COURSES AND STORM WATER CONVEYANCE SYSTEMS.
25. HAZARDOUS WASTE MATERIALS SHALL BE STORED IN AREAS NOT SUSCEPTIBLE TO RAIN AND CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT IN CASE OF SPILLS OR LEAKS.

- 26. IN THE EVENT OF A HAZARDOUS SPILL OR LEAK, CONTRACTOR SHALL NOTIFY THE STATE OFFICE OF EMERGENCY SERVICES (800) 852-7550 AND THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT (707) 253-4471.
27. SPILLS SHALL BE IMMEDIATELY CLEANED UP AND CONTAMINATED SOILS AND CLEAN UP MATERIALS SHALL BE DISPOSED OF PROPERLY. DRY SPILLS SHALL BE SWEEPED NOT WASHED OR HOSED. WET SPILLS ON IMPERMEABLE SURFACES SHALL BE ABSORBED AND ABSORBENT MATERIALS PROPERLY DISPOSED OF. WET SPILLS ON SOIL SHALL BE DUG UP AND ALL EXPOSED SOILS PROPERLY DISPOSED OF.

- 28. MAJOR MAINTENANCE / REPAIR AND WASHING OF CONSTRUCTION EQUIPMENT SHALL OCCUR OFFSITE.
29. CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED REGULARLY AND INSPECTED FREQUENTLY FOR DAMAGED HOSES, LEAKY GASKETS OR OTHER SERVICE PROBLEMS.
30. CONTRACTOR SHALL VERIFY WEEKLY THAT SUFFICIENT SPILL CONTROL AND CLEAN UP MATERIALS ARE LOCATED NEAR MATERIAL STORAGE, UNLOADING AND USE AREAS.

- 31. CONTRACTOR SHALL UPDATE ONSITE SPILL PREVENTION AND CONTROL PLANS AND STOCK APPROPRIATE CLEAN UP MATERIALS WHENEVER CHANGES OCCUR ONSITE.
32. CONTRACTOR IS RESPONSIBLE FOR TRAINING EMPLOYEES AND SUBCONTRACTORS ON CONSTRUCTION SITE MANAGEMENT AND BEST MANAGEMENT PRACTICES.
33. SEE STORM WATER POLLUTION PREVENTION PLAN FOR ADDITIONAL REQUIREMENTS.

DRIVEWAY SLOPE SECTIONS

Table with 3 columns: Slope, Percentage, and Average. Slopes range from 8+00 to 26+00, with percentages from 9% to 34%.

MAIN RESIDENCE SLOPE SECTIONS

Table with 3 columns: Slope, Percentage, and Average. Slopes are A-A, B-B, C-C, with percentages of 10%, 13%, and 20% respectively.

SECOND DWELLING UNIT AND GUEST COTTAGE SLOPE SECTIONS

Table with 3 columns: Slope, Percentage, and Average. Slopes are D-D, E-E, F-F, with percentages of 28%, 24%, and 11% respectively.

GRADING QUANTITIES SUMMARY\*

Summary table for grading quantities. Includes Main Driveway, Main Residence, and ADU & Guest Cottage. Columns: Material Type, Quantity (CY), and Total Disturbed (2.0 ± ACRES).

\* THIS ESTIMATE IS PROVIDED AS A TOOL FOR THE REVIEWING AGENCIES TO EVALUATE THE ENVIRONMENTAL IMPACTS OF THE PROJECT. IT IS NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. CONTRACTOR IS TO PERFORM THEIR OWN EARTHWORK CALCULATIONS AND SHALL NOT USE THE ESTIMATES PRESENTED ABOVE. THIS ESTIMATE IS BASED ON IN PLACE VOLUMES AND DOES NOT INCLUDE FLUFF, SHRINKAGE, PAVING, AGGREGATES OR SELECT FILL VOLUMES.

\*\* EXCESS SOIL CUT FROM THE PROJECT WILL BE HAULED OFFSITE TO A LOCATION PRE-APPROVED BY NAPA COUNTY OR WILL BE PLACED IN THE SOIL DISPOSAL AREA SHOWN ON C1.

ABBREVIATIONS:

Table of abbreviations and their meanings. Includes terms like AB (Aggregate Base), AC (Asphalt Concrete), AD (Area Drain), etc.

LEGEND:

Legend table showing symbols for property boundaries, easements, pavements, and utilities. Includes symbols for subject parcel, adjacent parcel, existing easement, etc.

Legend table showing symbols for proposed features like heavy duty PCC, light duty PCC, gravel, asphalt concrete, and rock.

PREPARED UNDER THE DIRECTION OF:



DRAWN BY: SMI

CHECKED BY: MRM

DATE: AUGUST 23, 2023

REVISIONS: 4/3/2023 SMI PERMIT SUBMITTAL

6/27/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #1

8/23/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #2

JOB NUMBER: 22-117

FILE: 22-117IMP\_NOTES.DWG

ORIGINAL SIZE: 24" X 36"

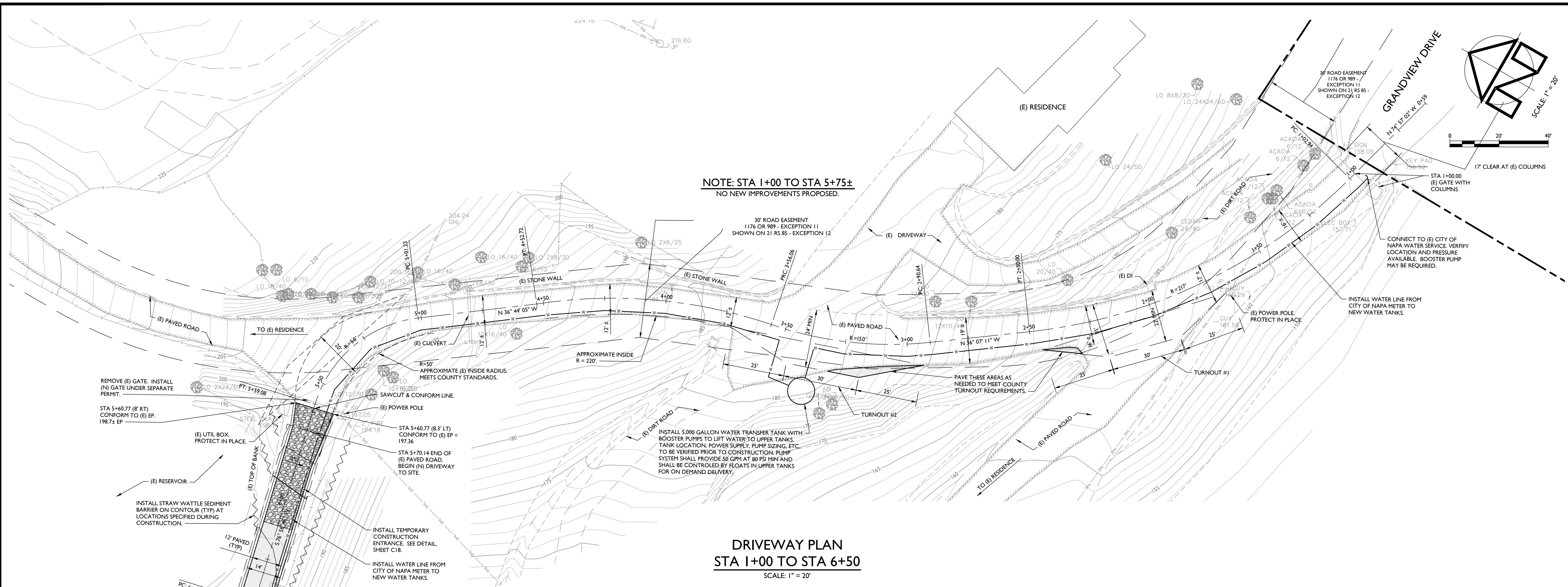
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C2

OF

20

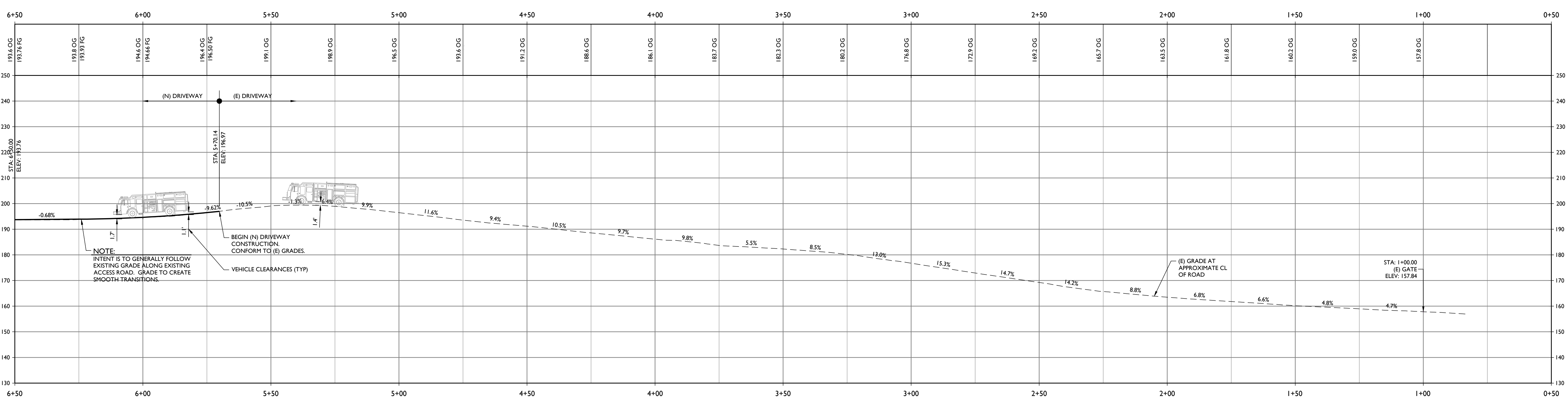




NOTE: STA 1+00 TO STA 5+75±  
NO NEW IMPROVEMENTS PROPOSED.

**DRIVEWAY PLAN**  
STA 1+00 TO STA 6+50  
SCALE: 1" = 20'

MATCHLINE STA 6+50  
SEE SHEET C4



**DRIVEWAY PROFILE**  
STA 1+00 TO STA 6+50  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

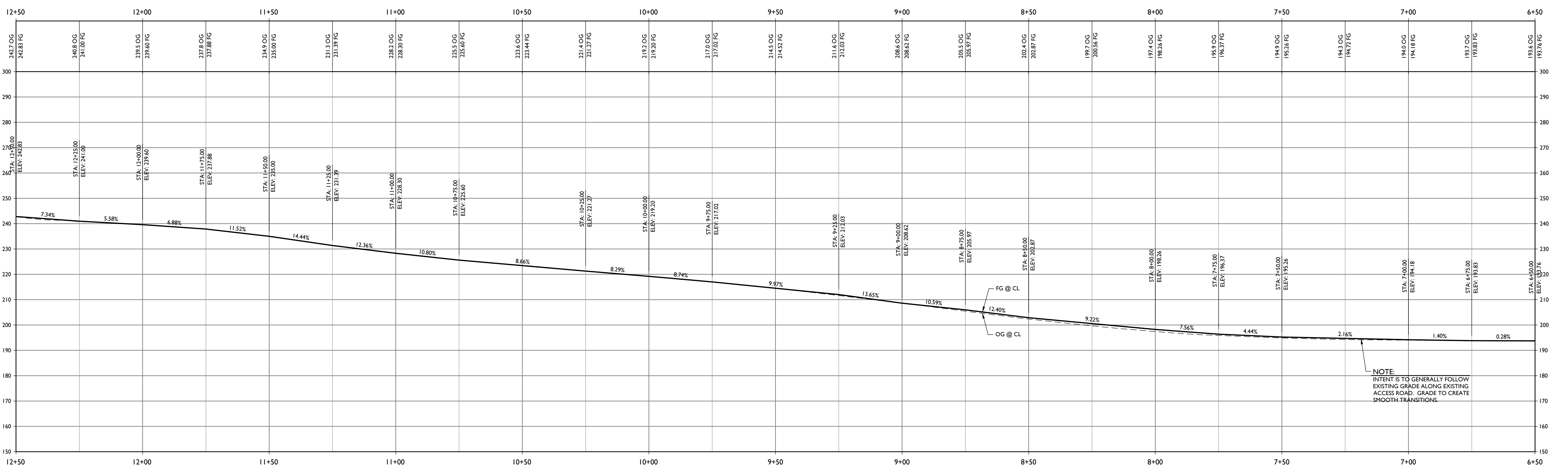
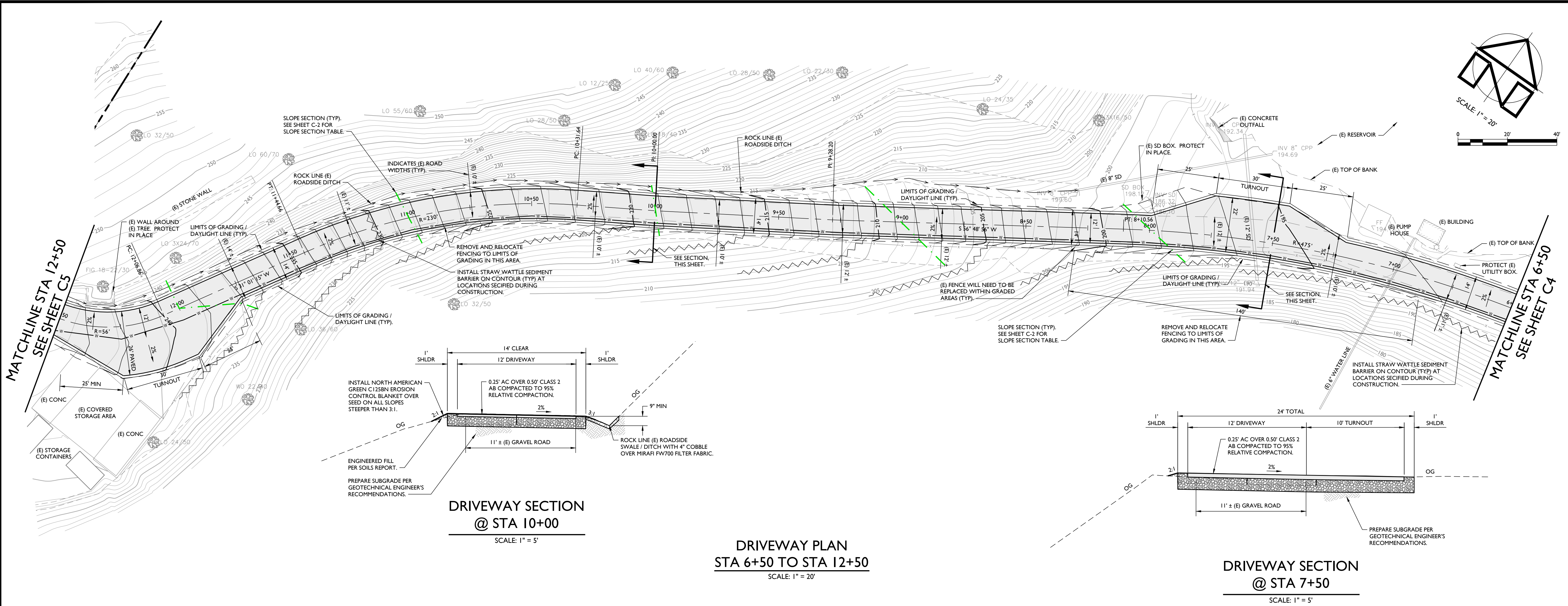
INFINITE LEISURE LLC  
SITE IMPROVEMENT PLANS  
DRIVEWAY PLAN & PROFILE STA 1+00 TO STA 6+50

PREPARED UNDER THE DIRECTION OF:

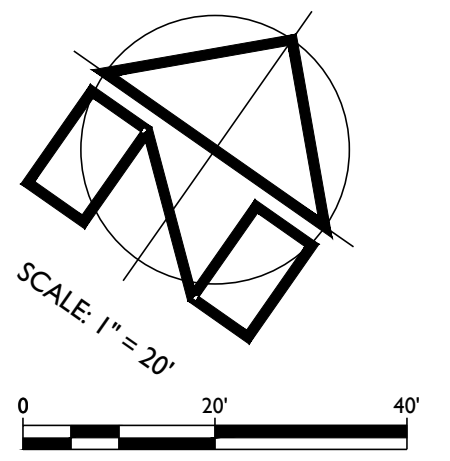


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REVISIONS:	BY:
4/3/2023	SMI
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6/27/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #1	
8/23/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #2	
JOB NUMBER:	22-117
FILE:	22-117IMP_DRWY P&P.DWG
ORIGINAL SIZE:	24" X 36"
SHEET NUMBER:	





**DRIVEWAY PROFILE**  
**STA 6+50 TO STA 12+50**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'



**INFINITE LEISURE LLC**  
 SITE IMPROVEMENT PLANS  
 DRIVEWAY PLAN & PROFILE STA 6+50 TO STA 12+50

PREPARED UNDER THE DIRECTION OF:



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CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY:
4/3/2023	SMI
PERMIT SUBMITTAL	
6/27/2023	SMI
REVISIONS PER PLAN	CHECK COMMENTS #1
8/23/2023	SMI
REVISIONS PER PLAN	CHECK COMMENTS #2

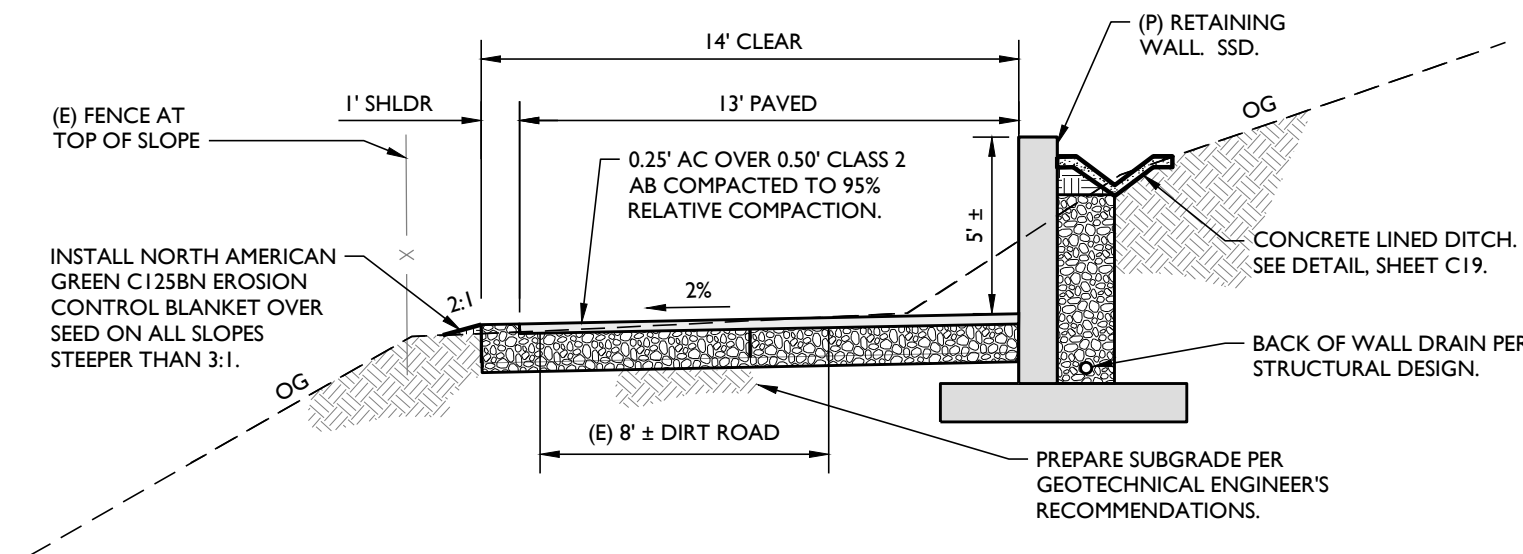
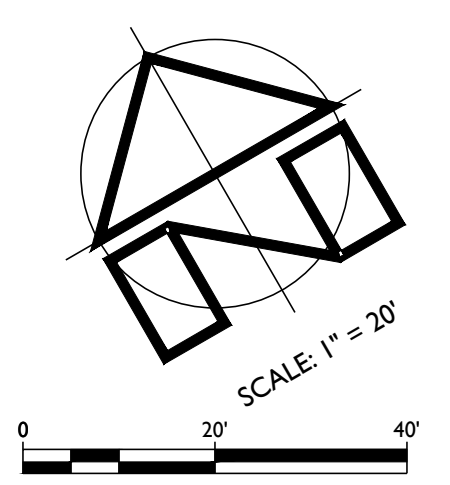
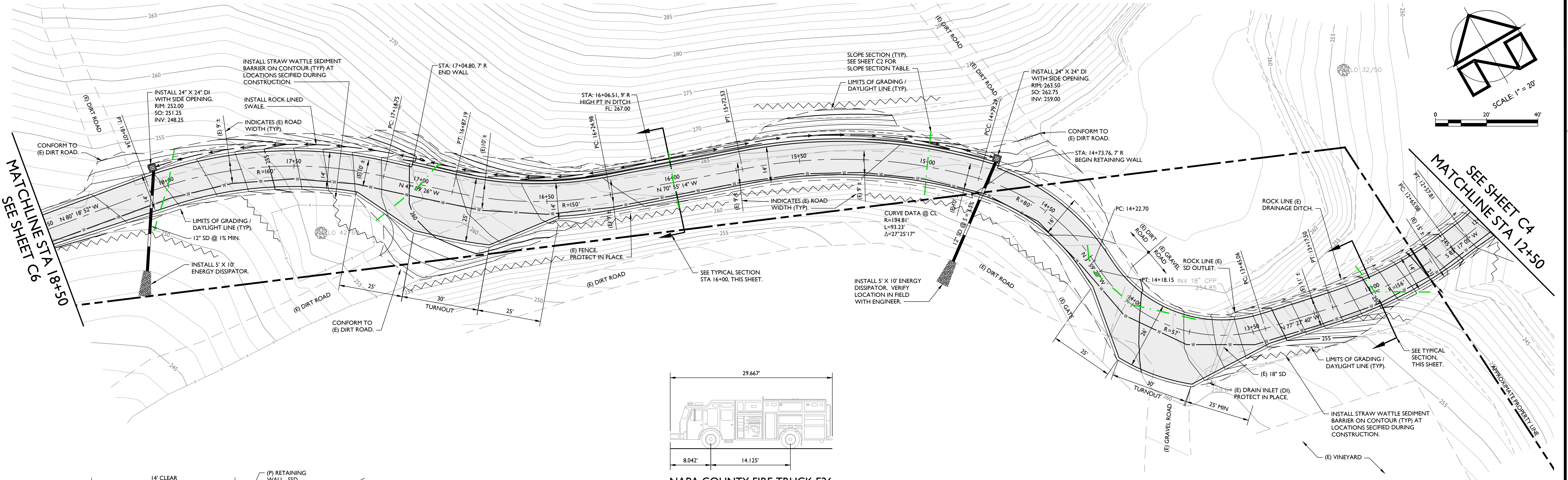
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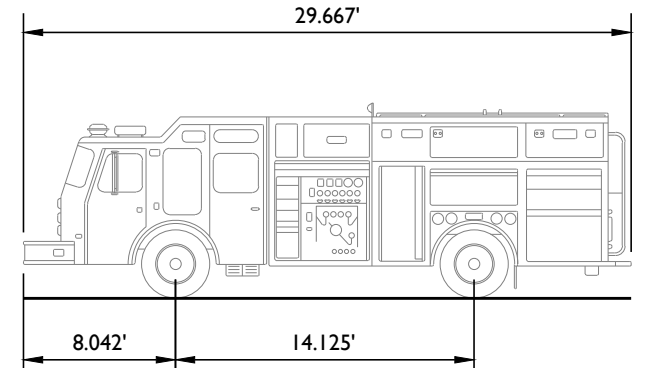
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24" X 36"

SHEET NUMBER:





**DRIVEWAY SECTION  
@ STA 16+00**  
SCALE: 1" = 5'

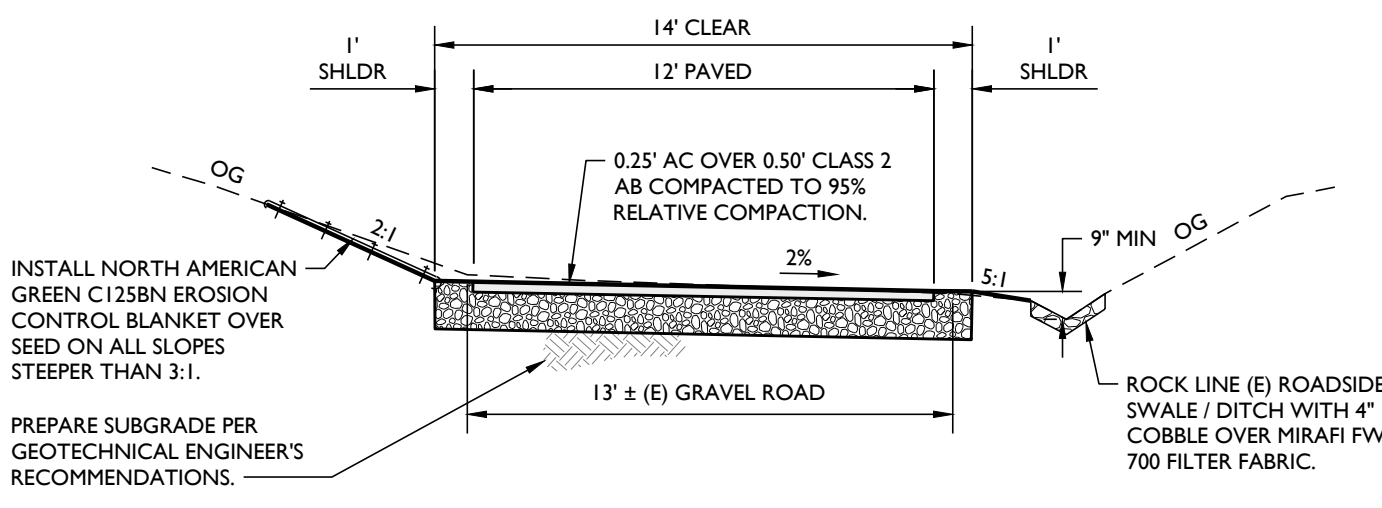


**NAPA COUNTY FIRE TRUCK E26**

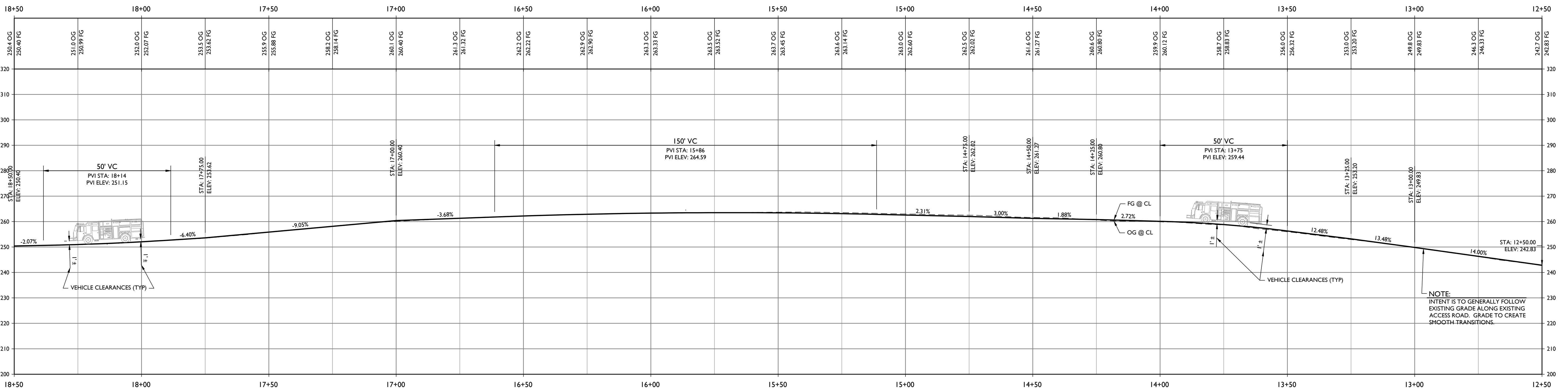
OVERALL LENGTH	29.667 FT
OVERALL WIDTH	8.000 FT
OVERALL BODY HEIGHT	10.609 FT
MIN BODY GROUND CLEARANCE	1.040 FT
TRACK WIDTH	9.015 FT
LOCK-TO-LOCK TIME	4.00 S
CURB TO CURB TURNING RADIUS	26.417 FT

**FIRE TRUCK PROFILE**  
NOT TO SCALE

**DRIVEWAY PLAN  
STA 12+50 TO STA 18+50**  
SCALE: 1" = 20'



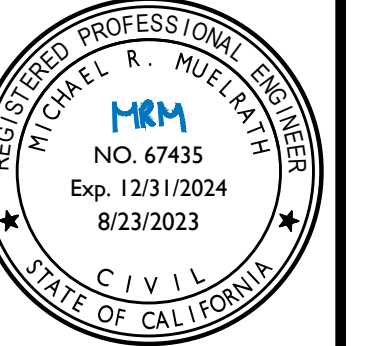
**DRIVEWAY SECTION  
@ STA 13+00**  
SCALE: 1" = 5'



**DRIVEWAY PROFILE  
STA 12+50 TO STA 18+50**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

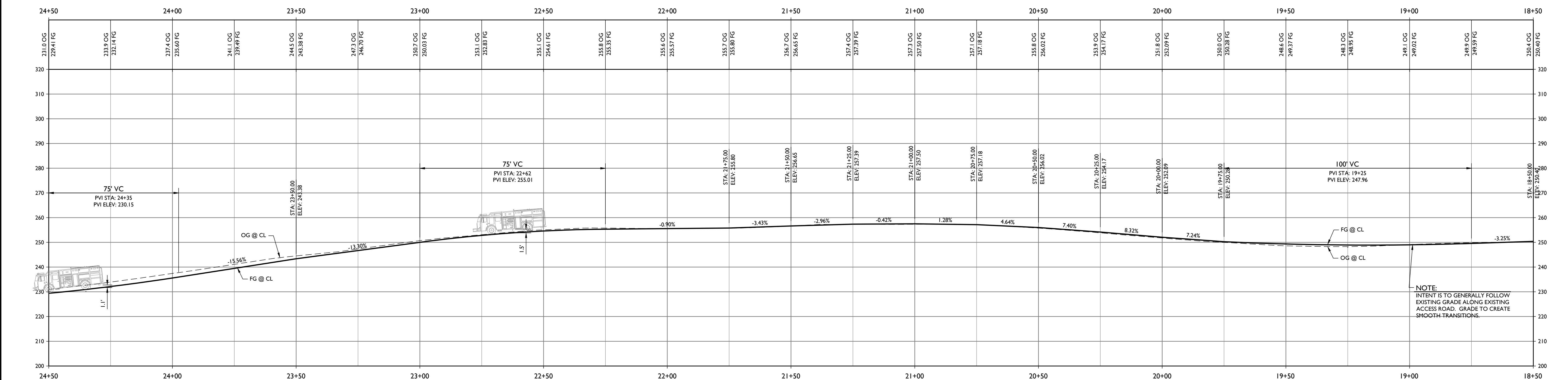
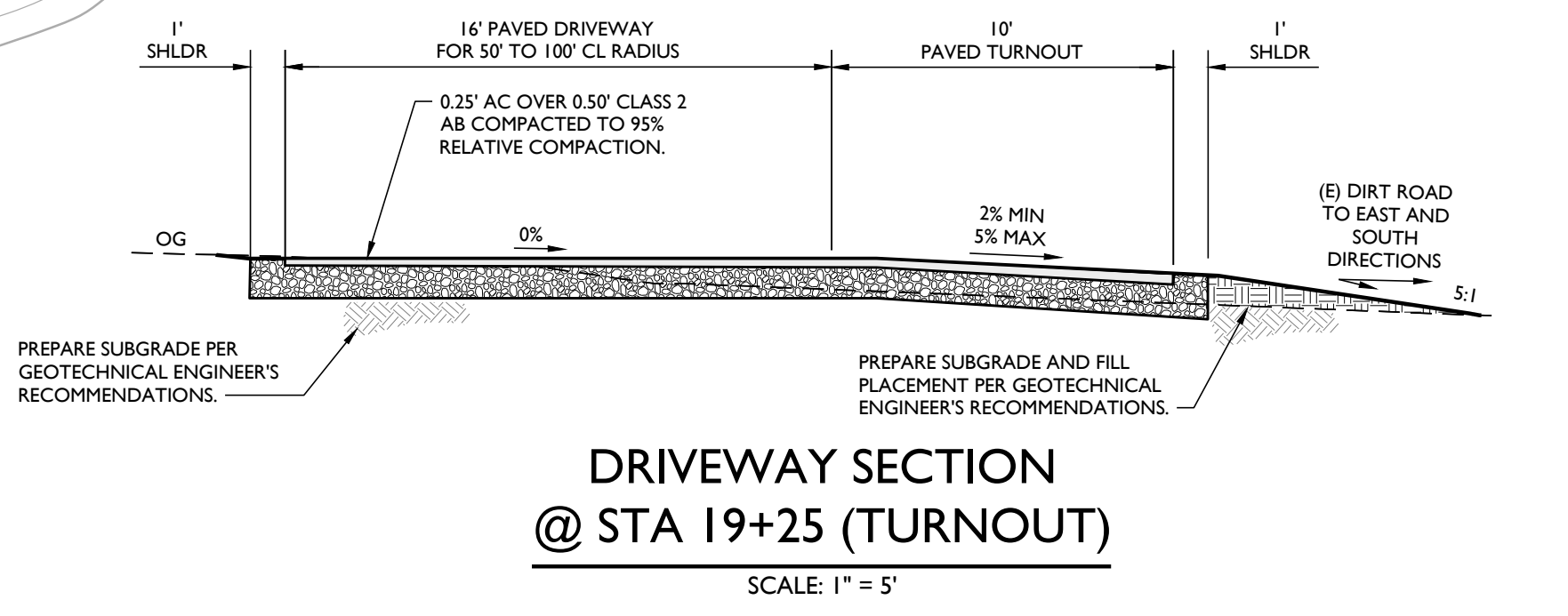
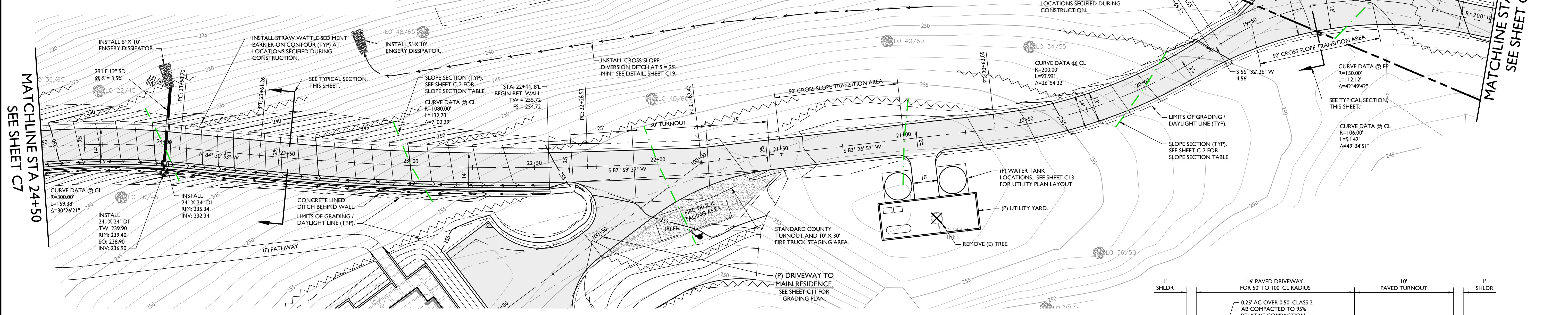
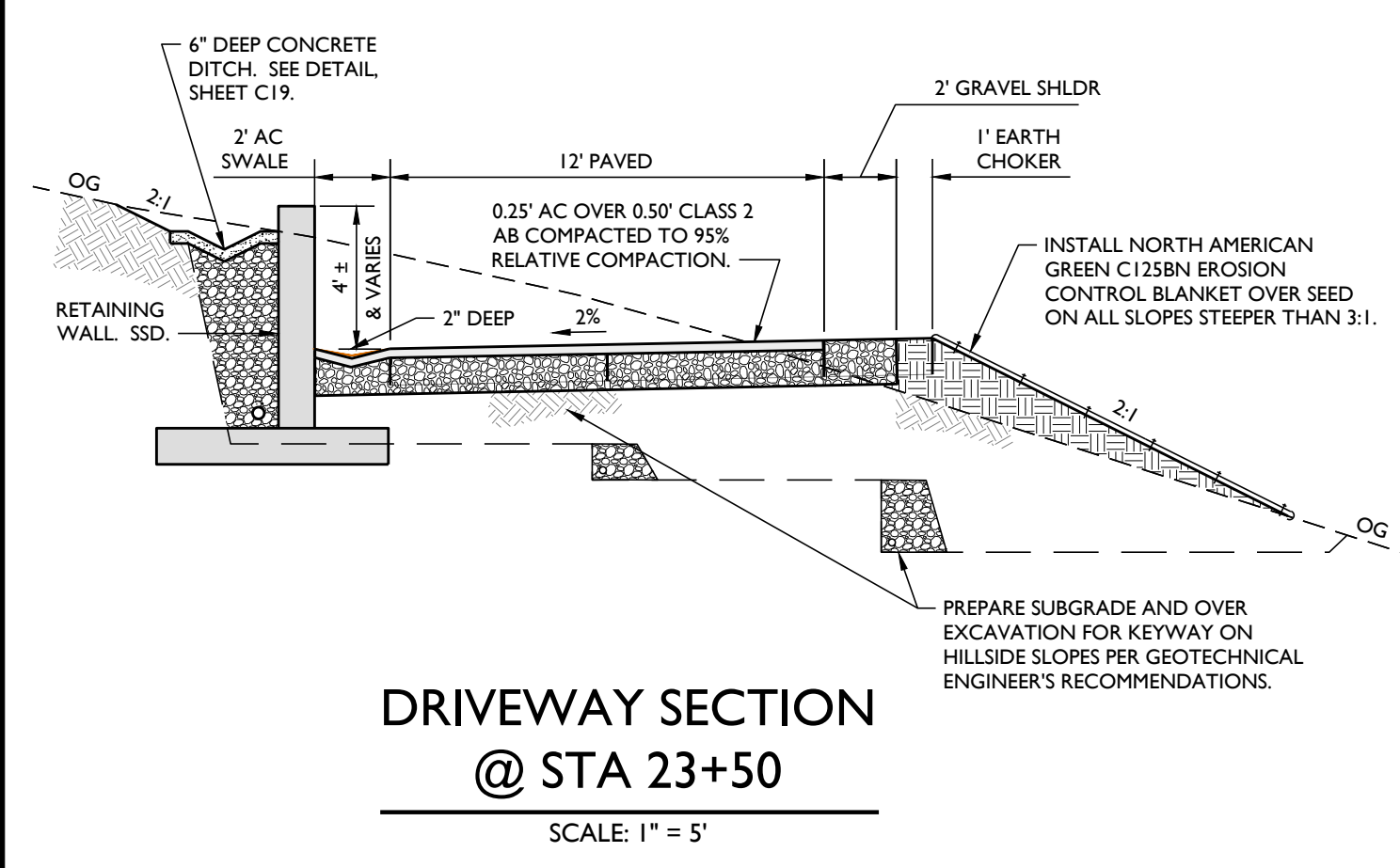
INFINITE LEISURE LLC  
SITE IMPROVEMENT PLANS  
DRIVEWAY PLAN & PROFILE STA 12+50 TO STA 18+50

PREPARED UNDER THE DIRECTION OF:

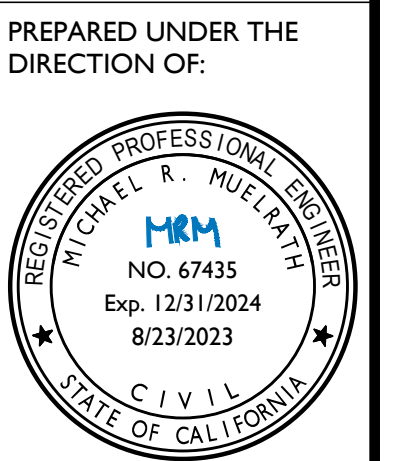


DRAWN BY:	SMI
CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY: 4/3/2023 SMI PERMIT SUBMITTAL
1	6/27/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #1
2	8/23/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #2
JOB NUMBER:	22-117
FILE:	22-117IMP_DRWY P&P.DWG
ORIGINAL SIZE:	24" X 36"
SHEET NUMBER:	





**INFINITE LEISURE LLC**  
 SITE IMPROVEMENT PLANS  
 DRIVEWAY PLAN & PROFILE STA 18+50 TO STA 24+50



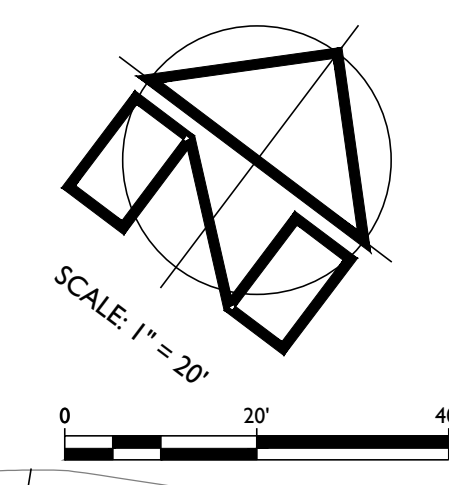
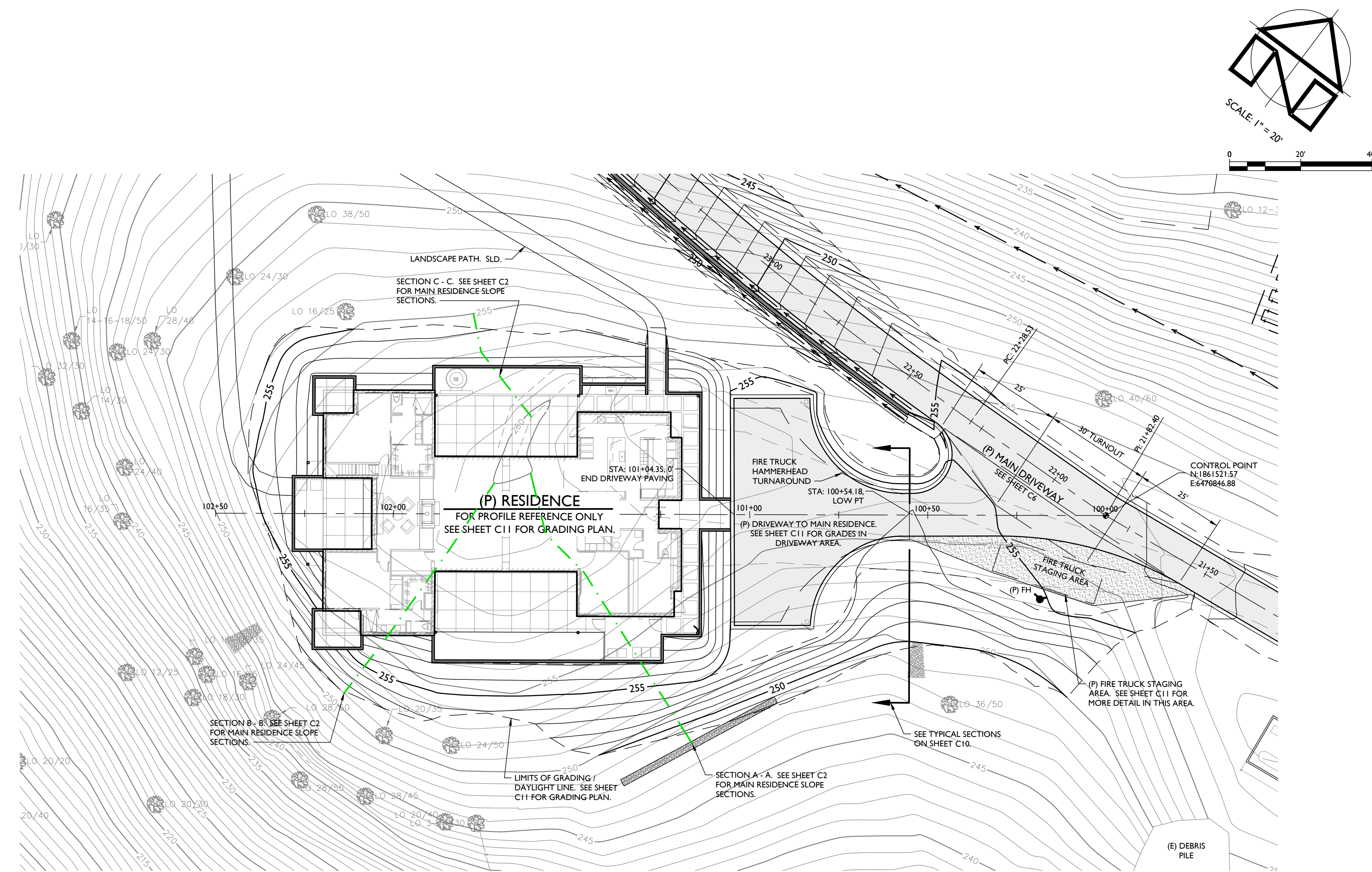
PREPARED UNDER THE DIRECTION OF:

DRAWN BY:	SMI
CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY:
4/3/2023	SMI
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6/27/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #1	
8/23/2023	SMI
REVISIONS PER PLAN	
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SHEET NUMBER:	

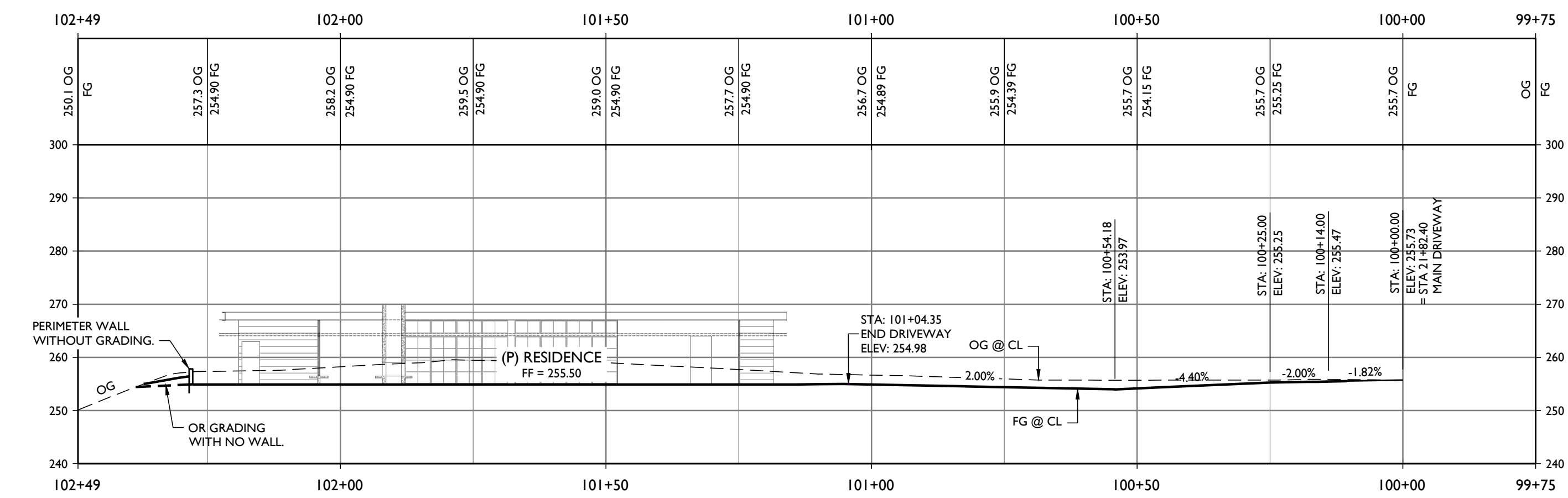








**DRIVEWAY PLAN - MAIN RESIDENCE**  
STA 100+00 TO STA 102+50 ±  
SCALE: 1" = 20'



**DRIVEWAY PROFILE - MAIN RESIDENCE**  
STA 100+00 TO STA 102+50 ±  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 20'

INFINITE LEISURE LLC  
SITE IMPROVEMENT PLANS  
MAIN RESIDENCE DRIVEWAY PROFILE STA 100+00 TO STA 200+00

PREPARED UNDER THE DIRECTION OF:



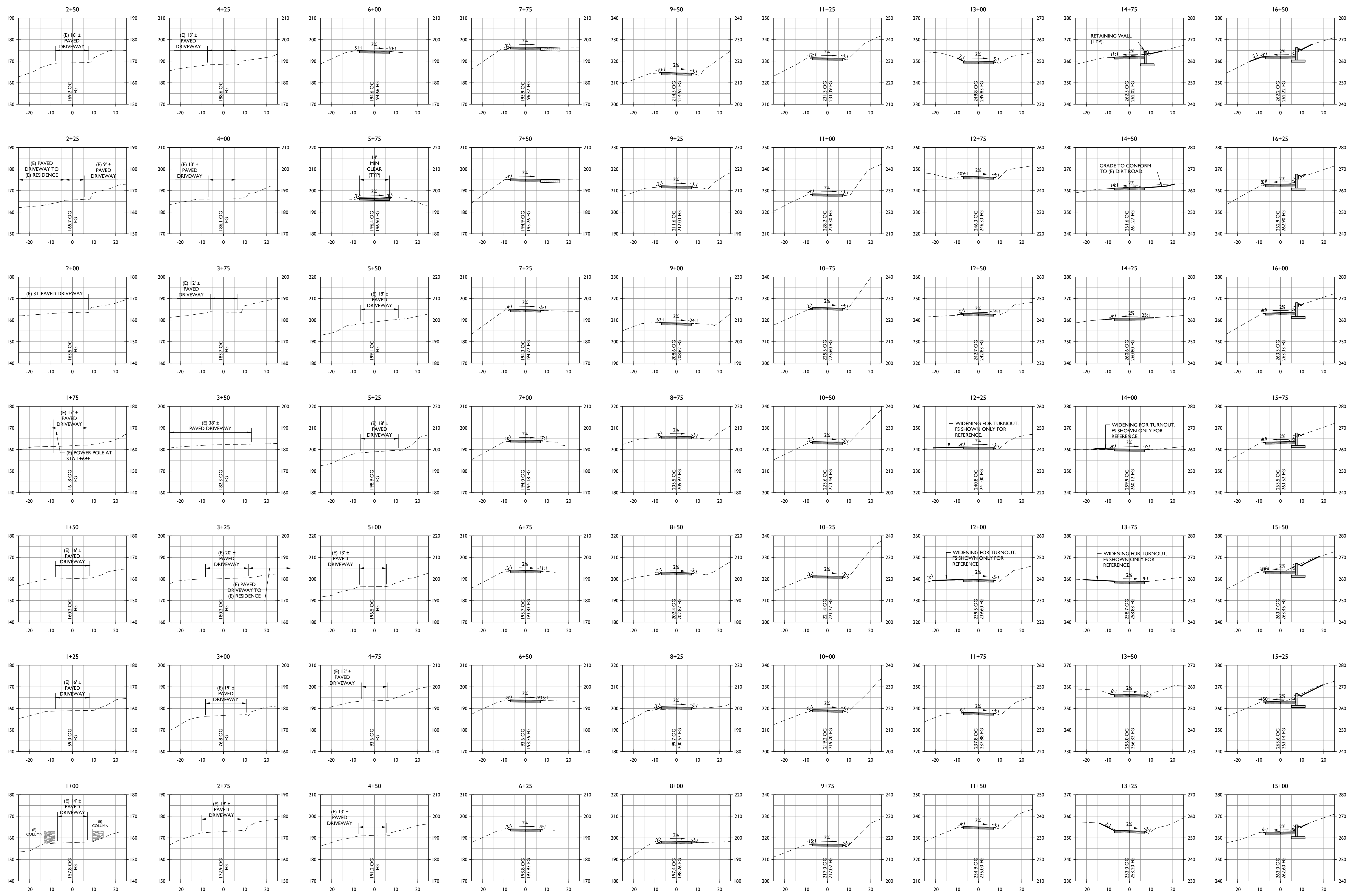
DRAWN BY: SMI  
CHECKED BY: MRM  
DATE: AUGUST 23, 2023  
REVISIONS: 4/3/2023 SMI PERMIT SUBMITTAL

6/27/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #1  
8/23/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #2

JOB NUMBER: 22-117  
FILE: 2-117IMP\_MR-DRWY P&P.DWG  
ORIGINAL SIZE: 24" X 36"  
SHEET NUMBER:

**C8**  
OF  
**20**





**INFINITE LEISURE LLC**  
 SITE IMPROVEMENT PLANS  
 DRIVEWAY SECTIONS STA 1+00 TO STA 16+50

PREPARED UNDER THE DIRECTION OF:



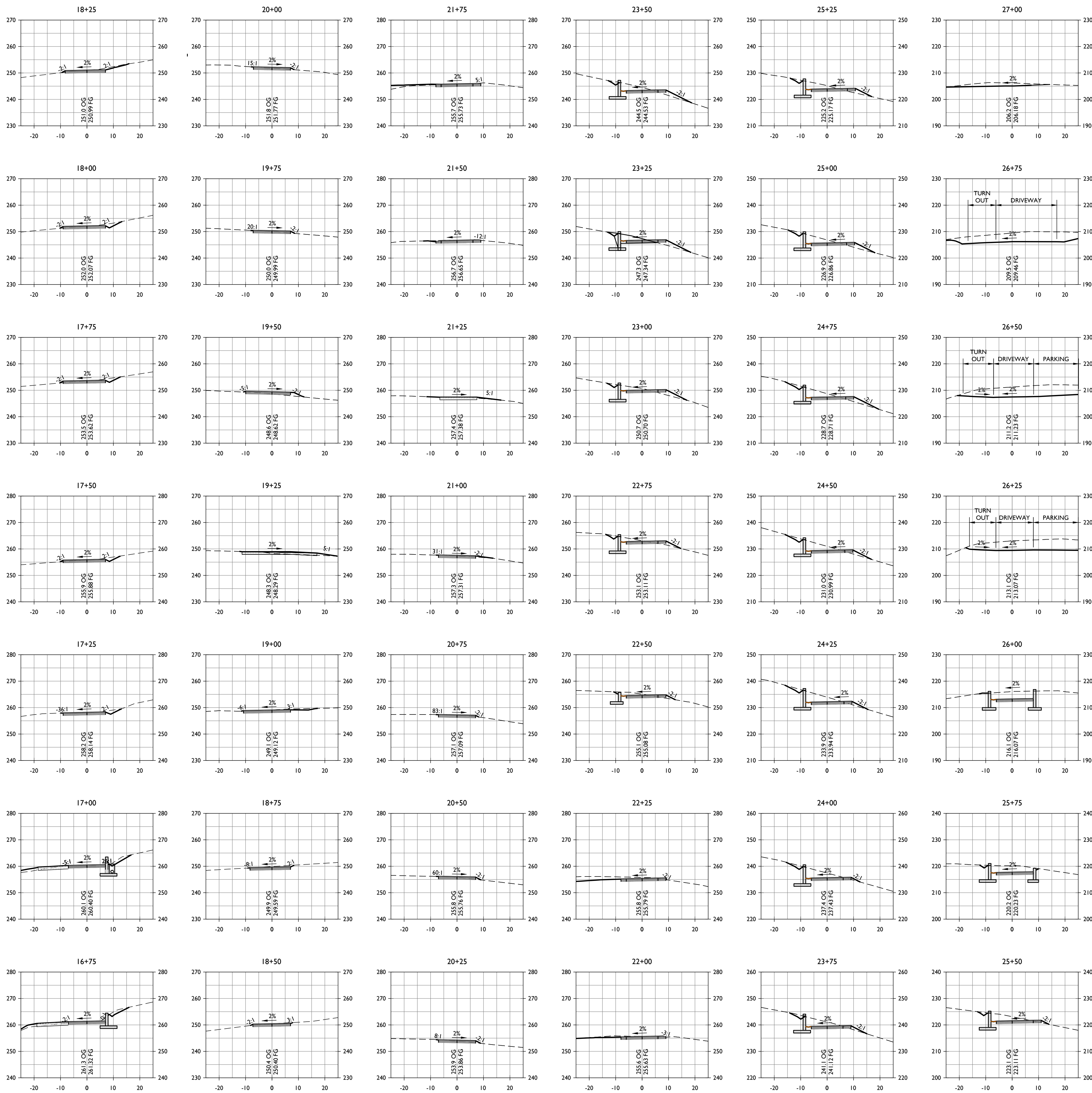
DRAWN BY: SMI  
 CHECKED BY: MRM  
 DATE: AUGUST 23, 2023  
 REVISIONS: BY: 4/3/2023 SMI PERMIT SUBMITTAL

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- △ 8/23/2023 SMI REVISIONS PER PLAN CHECK COMMENTS #2

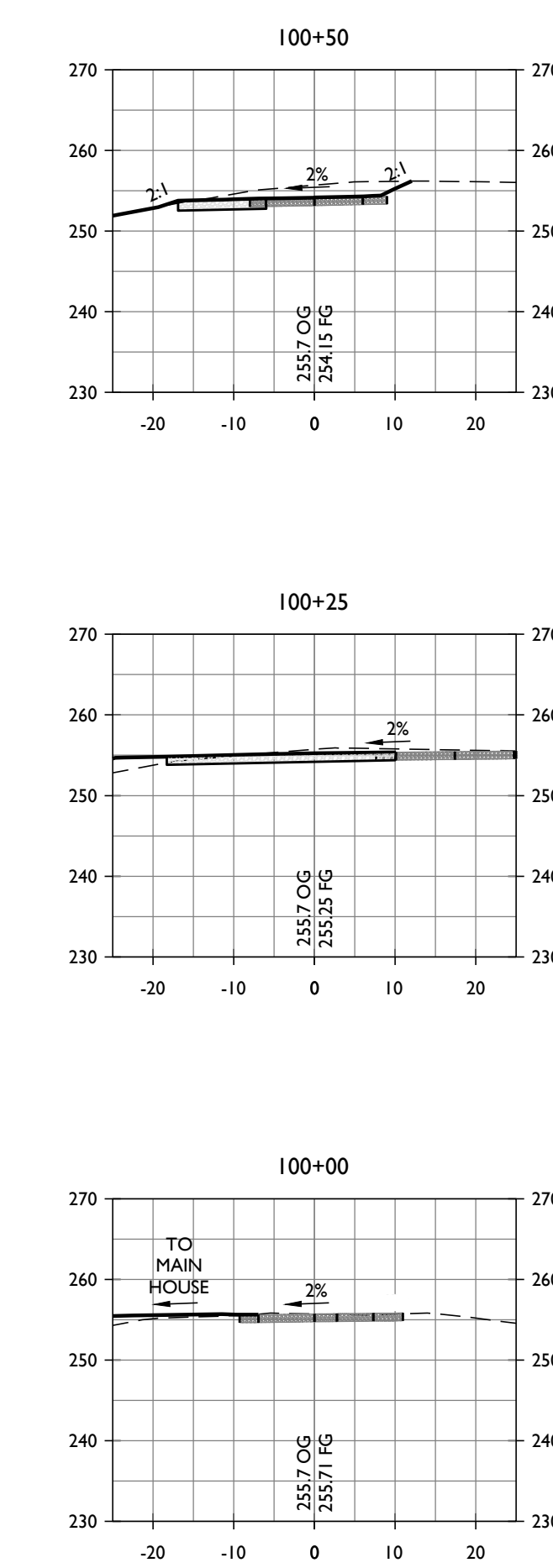
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 ORIGINAL SIZE: 24" X 36"  
 SHEET NUMBER:

**DRIVEWAY SECTION**  
**STA 1+00 TO STA 16+50**  
 SCALE: 1" = 20'





DRIVEWAY SECTIONS  
STA 16+75 TO END  
SCALE: 1" = 20'



MAIN RESIDENCE DRIVEWAY SECTIONS  
STA 100+00 TO 100+50  
SCALE: 1" = 20'

INFINITE LEISURE LLC  
SITE IMPROVEMENT PLANS  
DRIVEWAY SECTIONS STA 16+75 TO END & MAIN RESIDENCE

PREPARED UNDER THE DIRECTION OF:



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CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY:
4/3/2023	SMI
PERMIT SUBMITTAL	
6/27/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #1	
8/23/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #2	

JOB NUMBER:	22-117
FILE:	22-117IMP_SECTIONS.DWG
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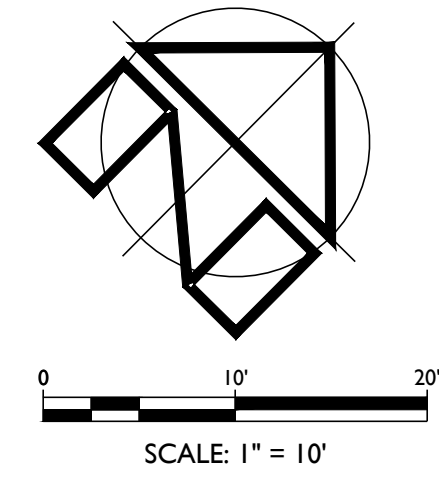






NOTES:

1. FOR GRADING NOTES, SEE SHEET C2.
2. FOR GRADING QUANTITIES OF SECOND DWELLING UNIT AND GUEST COTTAGE AREA, SEE SHEET C2.



PREPARED UNDER THE DIRECTION OF:



DRAWN BY: SMJ

CHECKED BY: MRM

DATE: AUGUST 23, 2023

REVISIONS: BY:  
4/3/2023 SMJ  
PERMIT SUBMITTAL

6/27/2023 SMJ  
REVISIONS PER PLAN  
CHECK COMMENTS #1

8/23/2023 SMJ  
REVISIONS PER PLAN  
CHECK COMMENTS #2

JOB NUMBER: 22-117

FILE: 22-117IMP\_GRAD-MAIN.DWG

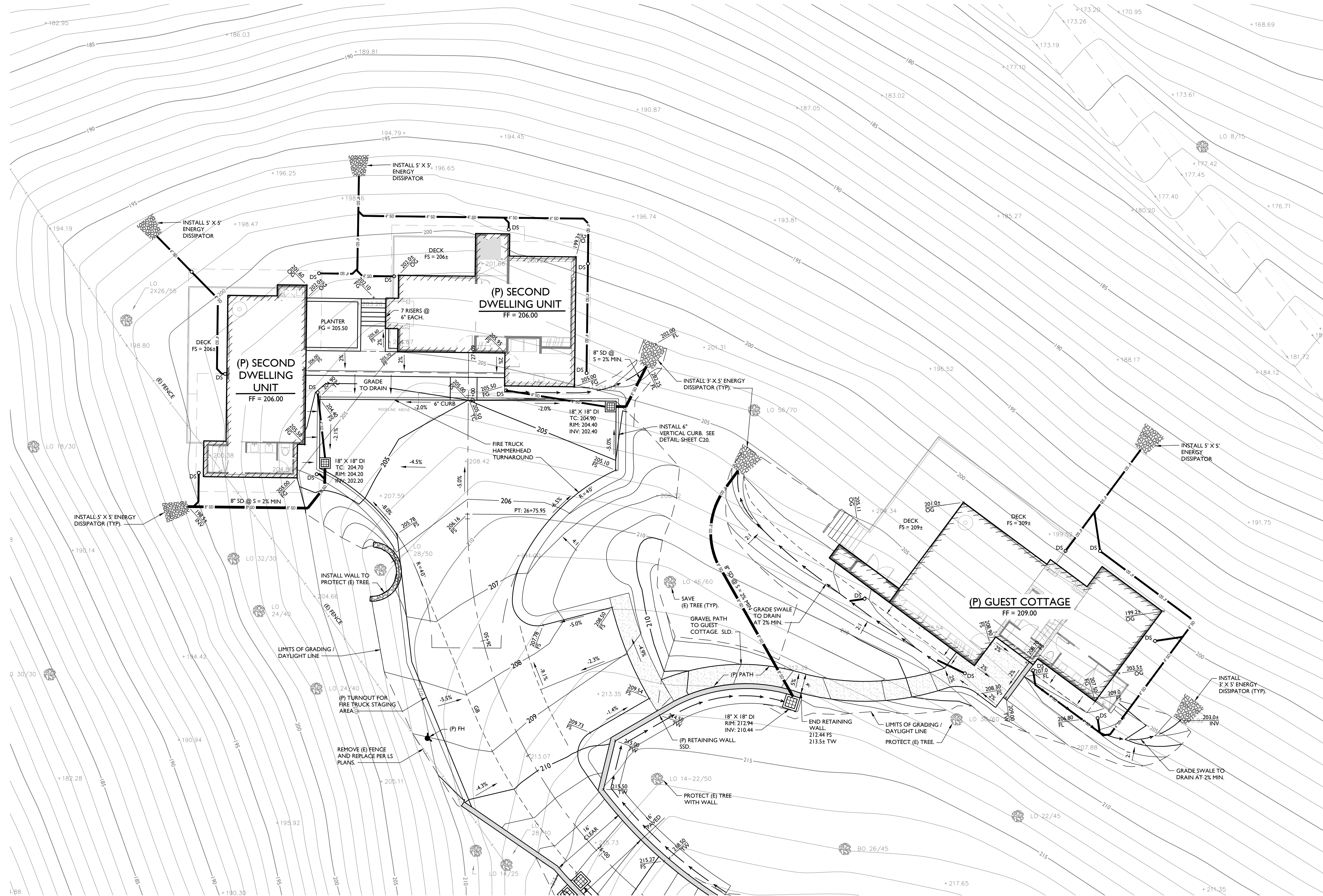
ORIGINAL SIZE: 24" X 36"

SHEET NUMBER:

C12

OF

20



GRADING PLAN - SECOND DWELLING UNIT & GUEST COTTAGE

SCALE: 1" = 10'



**FIRE PROTECTION WATER STORAGE CALCULATION:**

MINIMUM WATER SUPPLY CALCULATION PER NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 1142, CHAPTER 4.2 STRUCTURES WITHOUT EXPOSURE HAZARDS<sup>1</sup>:

$WS = VS / OHC \times CC$

WHERE:

WS = MINIMUM WATER SUPPLY (GALLONS)

VS = TOTAL VOLUME OF STRUCTURE (CUBIC FEET)

OHC = OCCUPANCY HAZARD CLASSIFICATION NUMBER

CC = CONSTRUCTION CLASSIFICATION NUMBER

AND:

VS = 70,897 CF (PER ARCHITECT)

OHC = 7 (PER NFPA 1142 CHAPTER 5.2.5)

CC = 1.0 (MAX FOR DWELLINGS PER NFPA 1142 CHAPTER 6.2.2)

THEREFORE:

$WS = 70,897 / 7 * 1.0$

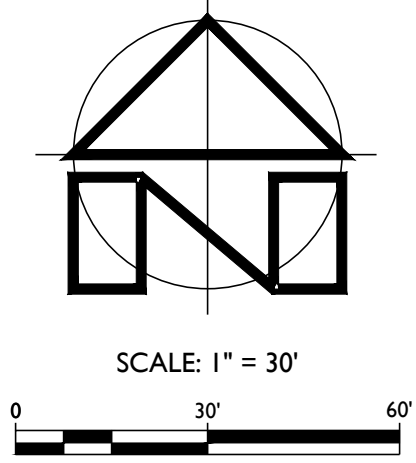
$WS = 10,128 \text{ GALLONS (USE 11,000 GALLONS)}$

<sup>1</sup>NO STRUCTURE IS WITHIN 50 FEET OF THE MAIN HOUSE. THEREFORE NO EXPOSURE HAZARD.

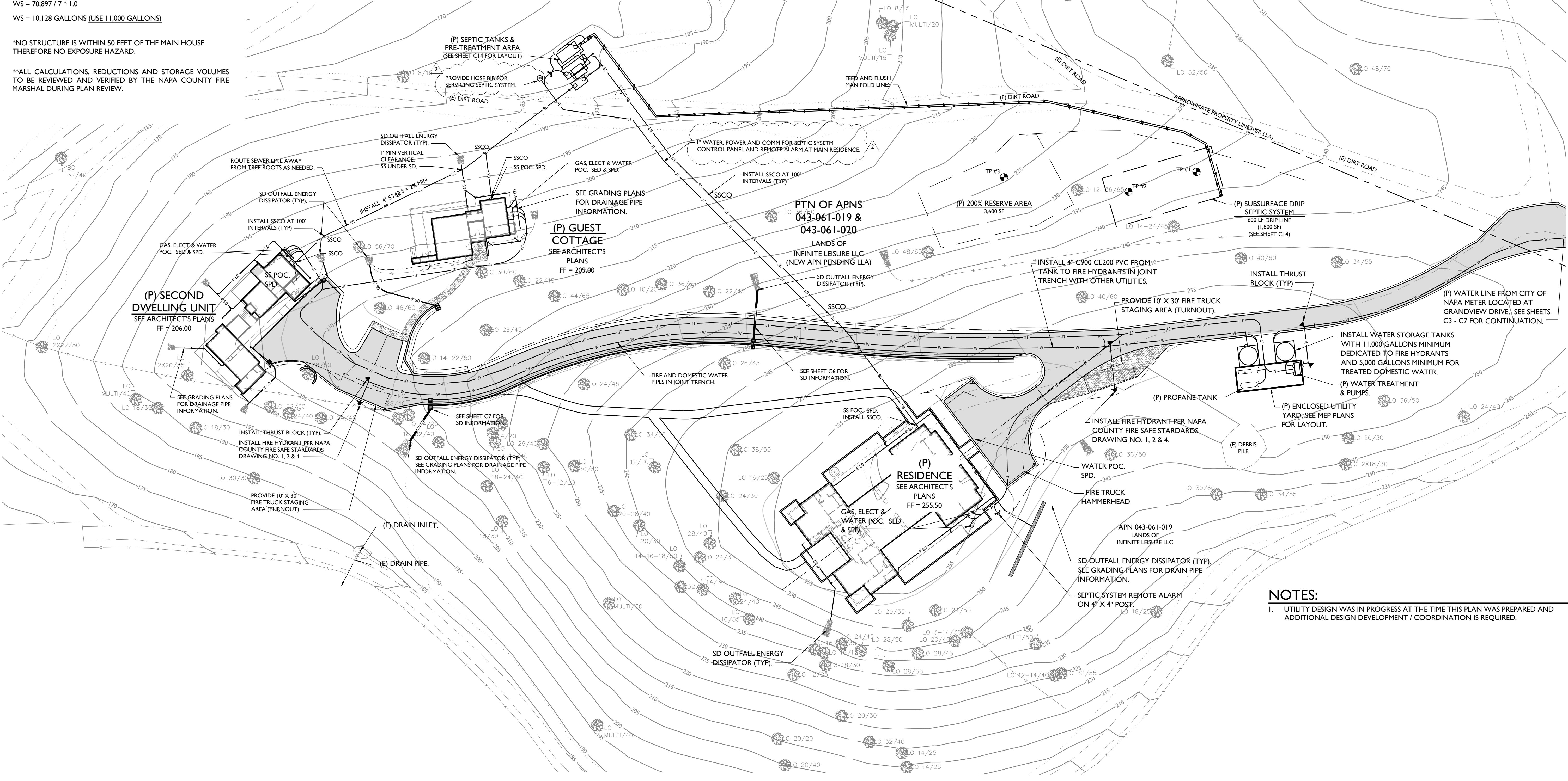
<sup>2</sup>ALL CALCULATIONS, REDUCTIONS AND STORAGE VOLUMES TO BE REVIEWED AND VERIFIED BY THE NAPA COUNTY FIRE MARSHAL DURING PLAN REVIEW.

NAPA COUNTY WASTEWATER TREATMENT SYSTEM SETBACK TABLE (MUNICIPAL CODE §13.28.040 <sup>1</sup> )			
FEATURE	SEWER/EFFLUENT LINE	SEPTIC/DOSING TANK OR D-BOX	DISPERSAL FIELD OR RESERVE AREA
WELLS, SPRINGS, ABANDONED WELLS	25 FT	100 FT	100 FT
UGS/BLEEDING WATER COURSE	50 FT	50 FT	25 FT
NON-BLEEDING WATER COURSE	10 FT	25 FT	25 FT
IMPERVIOUS LINED DITCHES, CULVERTS, OR CONDUITS	5 FT	10 FT	10 FT
LAKE / RESERVOIR (DRINKING WATER SOURCE)	50 FT	200 FT	200 FT
LAKE / RESERVOIR - ENGINEERED BERMS (NON-DINKING WATER SOURCE)	10 FT	25 FT	50 FT
LAKE / RESERVOIR - NON-ENGINEERED BERMS (NON-DINKING WATER SOURCE)	50 FT	50 FT	100 FT
PROPERTY LINE	5 FT	10 FT	10 FT
STRUCTURES / FOUNDATIONS <sup>2</sup>	N/A	5 FT	10 FT
CAVES AT HIGHER ELEVATION FROM SEWAGE SYSTEM	N/A	5 FT	10 FT
CAVES AT EQUAL OR LOWER ELEVATION FROM DISPOSAL SYSTEM	N/A	100 FT	100 FT*
SWIMMING POOLS	5 FT	10 FT	25 FT
PUBLIC OR SHARED PRIVATE ROADS	SEE NAPA COUNTY MUNICIPAL CODE §18.112		
DRIVEWAYS NOT DEDICATED AS PUBLIC OR PRIVATE ROADS	0 FT	5 FT	5 FT
CUT / HILL SLOPES	10 FT	10 FT	4X HIGHT (50 FT MAXIMUM)
EASEMENTS OR RIGHT-OF-WAYS <sup>3</sup>	5 FT	10 FT	10 FT
WATER LINE - PUBLIC	10 FT	25 FT	25 FT
WATER LINE - PRIVATE	1 FT	5 FT	10 FT
IRRIGATION OR DRAINAGE PIPES - WATER TIGHT	1 FT	5 FT	10 FT
IRRIGATION OR DRAINAGE PIPES - NON WATER TIGHT <sup>4</sup>	25 FT	25 FT	50 FT

<sup>1</sup>NOTE: THIS TABLE IS PROVIDED FOR CONVENIENCE PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL SETBACKS WITH THE COUNTY MUNICIPAL CODE AND OTHER APPLICABLE CODES.  
<sup>2</sup>SEE SUBSECTION (C) OF SECTION 13.28.080 FOR REPAIRS.  
<sup>3</sup>BLUE LINE SHALL MEAN ANY TYPE OF BLUE LINE ON A LEGAL MAP.  
<sup>4</sup>INCLUDES PIPES AND TRENCHES, BREEZEWAY ROOF PIPES, CARPORTS, COVERED WALKWAYS, COVERED DRIVEWAYS, AND SIMILAR STRUCTURES.  
<sup>5</sup>THE DISTANCE TO BE ENCLOSED TO 40 FEET IF THE SEWAGE DISPOSAL SYSTEM DOES NOT COMPLY WITH THE STANDARDS IN NAPA MUNICIPAL CODE §13.28.  
<sup>6</sup>UNLESS OTHERWISE SPECIFICALLY FOR AN ONSITE SEWAGE DISPOSAL SYSTEM.  
<sup>7</sup>THESE DISTANCES CAN BE REDUCED TO 10 FEET IF THE UNDERGROUND IRRIGATION OR DRAINAGE SYSTEM IS LOCATED UPDRAPE OF THE SEWAGE DISPOSAL SYSTEM.



PTN OF APNS  
043-061-019 &  
043-061-020  
LANDS OF  
INFINITE LEISURE LLC  
(NEW APN PENDING LLA)



**NOTES:**  
 1. UTILITY DESIGN WAS IN PROGRESS AT THE TIME THIS PLAN WAS PREPARED AND ADDITIONAL DESIGN DEVELOPMENT / COORDINATION IS REQUIRED.

**LAYOUT & OVERALL UTILITY PLAN**  
SCALE: 1" = 30'

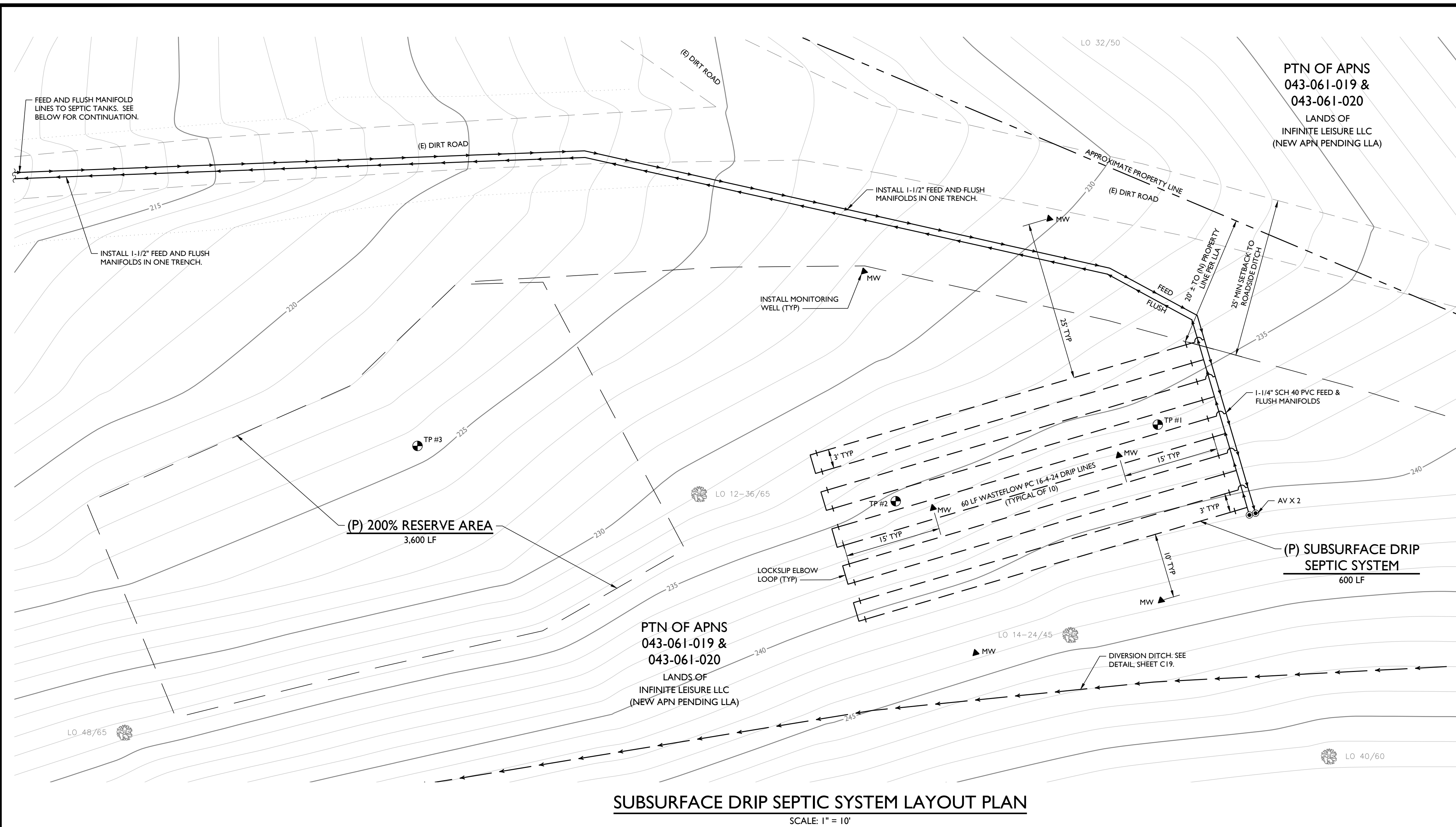
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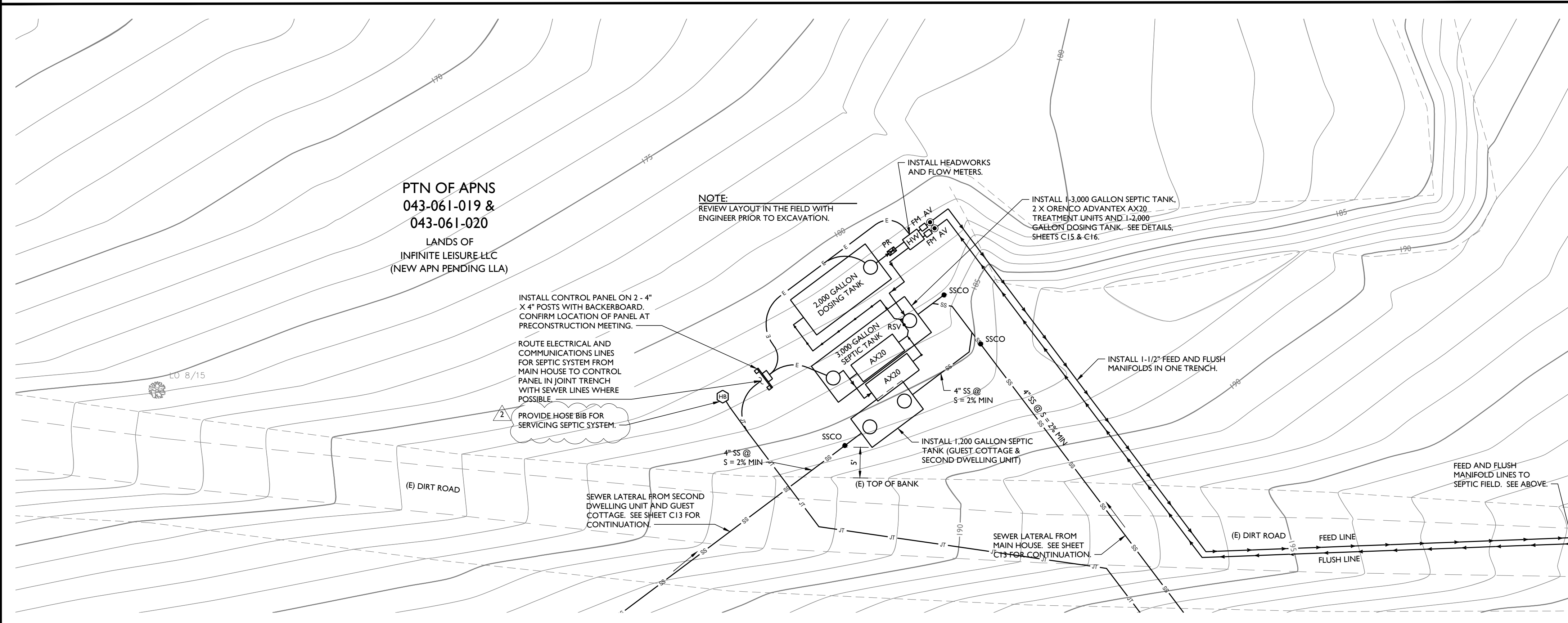
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DATE:	AUGUST 23, 2023
REVISIONS:	BY:
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PERMIT SUBMITTAL	
6/27/2023	SMI
REVISIONS PER PLAN	
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8/23/2023	SMI
REVISIONS PER PLAN	
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JOB NUMBER:	22-117
FILE:	22-117IMP_UTIL.DWG
ORIGINAL SIZE:	24" X 36"
SHEET NUMBER:	

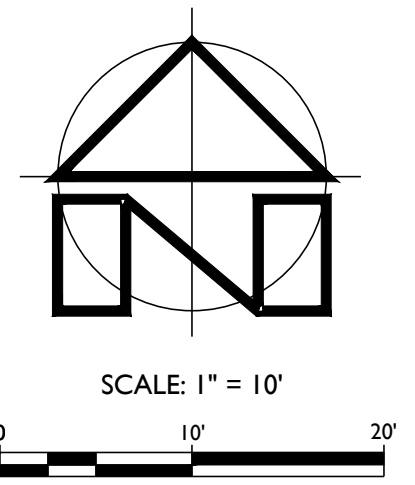




**SUBSURFACE DRIP SEPTIC SYSTEM LAYOUT PLAN**  
SCALE: 1" = 10'



**SEPTIC TANK LAYOUT PLAN**  
SCALE: 1" = 10'



**SEPTIC SYSTEM NOTES:**

- ALL SEPTIC SYSTEM WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND NAPA COUNTY STANDARDS.
- THE FOLLOWING STAGES OF CONSTRUCTION REQUIRE INSPECTION BY APPLIED CIVIL ENGINEERING INCORPORATED AND NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT - ENVIRONMENTAL HEALTH DIVISION:
  - PRECONSTRUCTION MEETING
    - CONFIRM IMMINENT WEATHER CONDITIONS WILL NOT CREATE UNSUITABLE SOIL CONDITIONS DURING CONSTRUCTION
    - CONFIRM SOIL MOISTURE IN THE AREA OF THE PROPOSED SUBSURFACE DRIP DISPOSAL FIELD IS NOT SO HIGH THAT IT WILL CAUSE SMEARING OR COMPACTION DURING CONSTRUCTION
    - REVIEW OVERALL SYSTEM LAYOUT
    - REVIEW SOURCE OF MATERIALS
  - INTERIM CONSTRUCTION INSPECTIONS
    - INSTALLATION OF PRETREATMENT COMPONENTS
    - INSTALLATION OF DRIP FIELD AND FUNCTIONING OF ALL COMPONENTS
    - SETTING AND FUNCTION OF ALL CONTROL DEVICES
    - CONNECTION OF ALL PIPING AND RELATED COMPONENTS
    - HYDRAULIC TEST
    - WATERTIGHT TEST FOR ALL TANKS
  - FINAL INSPECTION
    - GENERAL CONFORMANCE TO DESIGN PLANS AND SPECIFICATIONS
    - MONITORING WELLS
    - HARDWARE OF PUMPS, CONTROLS AND ALARM
- CONTRACTOR SHALL CONTACT APPLIED CIVIL ENGINEERING INCORPORATED AT (707) 320-4968 AND NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT - ENVIRONMENTAL HEALTH DIVISION AT (707) 253-4135 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF WORK TO SCHEDULE THE PRECONSTRUCTION MEETING. ALL OTHER INSPECTIONS ARE TO BE SCHEDULED AT LEAST 48 HOURS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS. APPLIED CIVIL ENGINEERING INCORPORATED WILL NOT RELEASE THE FINAL LETTER AND RECORD DRAWING FOR FINAL CLEARANCE ON THE SEPTIC SYSTEM IF THE ABOVE INSPECTIONS ARE NOT MADE.
- POLYVINYL CHLORIDE (PVC) PIPE FOR THE SEPTIC SYSTEM SANITARY SEWER GRAVITY LINES SHALL BE SDR 35 AND COMPLY WITH ASTM D 3034 REQUIREMENTS. ALL GRAVITY LINES 6" IN DIAMETER AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1% AND ALL LINES 8" IN DIAMETER AND LARGER SHALL HAVE A MINIMUM SLOPE OF 0.5%.
- PVC PIPE FOR THE SEPTIC SYSTEM PRESSURE LINES SHALL BE SCHEDULE 40 AND COMPLY WITH ASTM D 2751 REQUIREMENTS.
- ALL SEPTIC SYSTEM PRESSURE FITTINGS SHALL BE SCHEDULE 40 PVC SOLVENT WELD FITTINGS AND COMPLY WITH ASTM D 2466 REQUIREMENTS.
- ALL VALVES FOR THE SEPTIC SYSTEM SHALL BE SCHEDULE 80 PVC BALL VALVES.
- ALL ELECTRICAL WORK REQUIRED TO SUPPLY POWER TO THE CONTROL PANEL AND PUMPS MUST MEET NAPA COUNTY AND NATIONAL ELECTRIC CODE REQUIREMENTS. ALL ELECTRICAL WORK FOR THE SEPTIC SYSTEM SHALL BE INCLUDED IN THE PERMIT FOR THE STRUCTURE OR SHALL BE COVERED UNDER A SEPARATE ELECTRICAL PERMIT SUBMITTED BY THE CONTRACTOR.
- DISPOSAL FIELD AND RESERVE AREA SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. THE DISPOSAL FIELD AND RESERVE AREAS SHALL NOT BE USED FOR CONSTRUCTION STAGING, VEHICLE PARKING OR ACCESS FOR CONSTRUCTION EQUIPMENT, VEHICLES OR PERSONNEL.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SEPTIC TANK PUMPING SERVICE AS NECESSARY TO MAINTAIN THE EXISTING RESIDENCE IN SERVICE AT ALL TIMES.
- OWNER SHALL PROTECT LEACH FIELD AND RESERVE AREA TO PREVENT COMPACTION FROM LIVESTOCK, VEHICLES, EQUIPMENT, ETC. AT ALL TIMES AFTER THE COMPLETION OF CONSTRUCTION.

**SEPTIC SYSTEM LEGEND:**

- ▲ MW INSTALL MONITORING WELL PER DETAIL, SHEET C16
- AV INSTALL AIR / VACUUM BREAKER PER DETAIL, SHEET C15
- ☒ CV INSTALL FLAP CHECK VALVE
- FM INSTALL FLOWMETER PER DETAIL, SHEET C15
- HW INSTALL GEOPLOW HEADWORKS PER DETAIL, SHEET C16
- PR INSTALL 60 PSI PRESSURE REGULATOR
- SSCO INSTALL SANITARY SEWER CLEANOUT PER DETAIL, SHEET C15
- HOSEBIB INSTALL HOSE BIB

NAPA COUNTY WASTEWATER TREATMENT SYSTEM SETBACK TABLE (MUNICIPAL CODE 113.28.0401)			
FEATURE	SEWER/EFFLUENT LINE	SEPTIC/DOSING TANK OR D-BOX	DISPERSAL FIELD OR RESERVE AREA
WELLS <sup>1</sup> , SPRINGS, ABANDONED WELLS	25 FT	100 FT	100 FT
USGS BLUE LINE <sup>2</sup> WATERCOURSE	50 FT	50 FT	100 FT
NON-BLUE LINE WATERCOURSE	10 FT	25 FT	25 FT
IMPERVIOUS LINED DITCHES, CULVERTS, OR CONDUITS	5 FT	10 FT	10 FT
LAKE / RESERVOIR (DRINKING WATER SOURCE)	50 FT	200 FT	200 FT
LAKE / RESERVOIR - ENGINEERED BEAMS (NON-DRINKING WATER SOURCE)	10 FT	25 FT	50 FT
LAKE / RESERVOIR - NON ENGINEERED BEAMS (NON-DRINKING WATER SOURCE)	50 FT	50 FT	100 FT
PROPERTY LINE	5 FT	10 FT	10 FT
STRUCTURES / FOUNDATIONS <sup>3</sup>	N/A	5 FT	10 FT
CAVES AT HIGHER ELEVATION FROM SEWAGE SYSTEM	N/A	5 FT	10 FT
CAVES AT EQUAL OR LOWER ELEVATION FROM DISPOSAL SYSTEM	N/A	100 FT	100 FT <sup>4</sup>
SWIMMING POOLS	5 FT	10 FT	25 FT
PUBLIC OR SHARED PRIVATE ROADS	SEE NAPA COUNTY MUNICIPAL CODE §18.112		
DRIVEWAYS NOT DEDICATED AS PUBLIC OR PRIVATE ROADS	0 FT	5 FT	5 FT
CLUT / FILL SLOPES	10 FT	10 FT	4 X HEIGHT (50 FT MAXIMUM)
EASEMENTS OR RIGHT OF WAYS <sup>5</sup>	5 FT	10 FT	10 FT
WATER LINE - PUBLIC	10 FT	25 FT	25 FT
WATER LINE - PRIVATE	1 FT	5 FT	10 FT
IRRIGATION OR DRAINAGE PIPES - WATER TIGHT	1 FT	5 FT	10 FT
IRRIGATION OR DRAINAGE PIPES - NON WATER TIGHT <sup>6</sup>	25 FT	25 FT	50 FT

<sup>1</sup> NOTE: THIS TABLE PROVIDED FOR CONFORMANCE PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL SETBACKS WITH THE COUNTY MUNICIPAL CODE AND OTHER APPLICABLE CODES.  
<sup>2</sup> SEE SUBSECTION (C) OR SECTION 113.28.040 FOR DEFINITION.  
<sup>3</sup> BLUE LINE SHALL MEAN ANY TYPE OF BLUE LINE ON A USGS MAP.  
<sup>4</sup> INCLUDES PORCHES AND STAIRS, BLEEDWAYS, ROOF PATIOS, CARPORTS, COVERED WALKWAYS, COVERED DRIVEWAYS, AND SIMILAR STRUCTURES.  
<sup>5</sup> THE DISTANCE TO BE MAINTAINED TO WATER FEET BY THE SEWAGE DISPOSAL SYSTEM DOES NOT COMPLY WITH THE STANDARDS IN NAPA MUNICIPAL CODE §18.112.  
<sup>6</sup> UNLESS EASEMENT IS SPECIFICALLY FOR AN ONSITE SEWAGE DISPOSAL SYSTEM.  
<sup>7</sup> THESE DISTANCES CAN BE REDUCED TO TEN FEET IF THE UNDERGROUND IRRIGATION OR DRAINAGE SYSTEM IS LOCATED UPLOPE OF THE SEWAGE DISPOSAL SYSTEM.

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**INFINITE LEISURE LLC**  
 SITE IMPROVEMENT PLANS  
 SUBSURFACE DRIP SEPTIC SYSTEM AND SEPTIC TANK LAYOUT PLAN

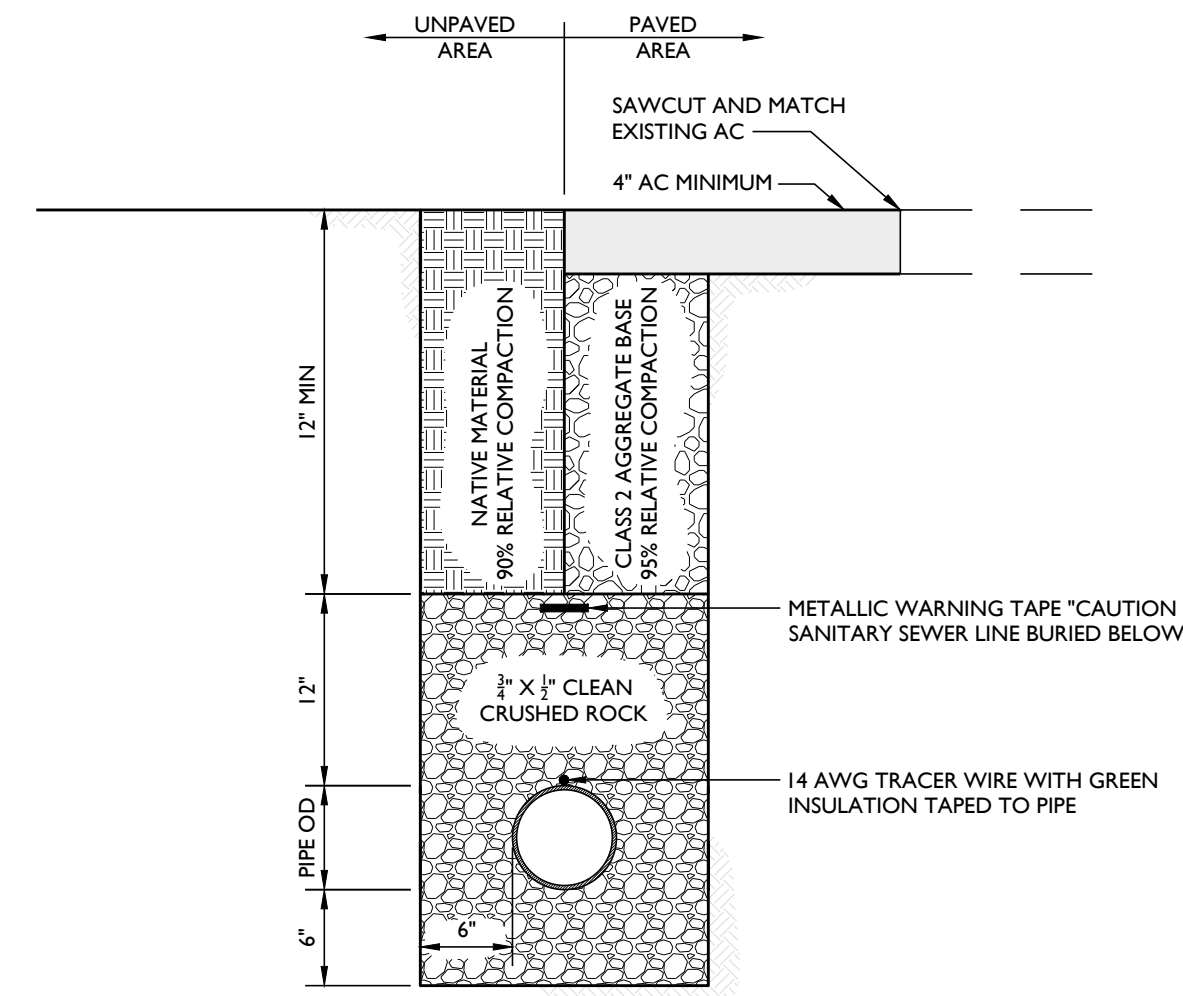
PREPARED UNDER THE DIRECTION OF:  
  
 MICHAEL R. MUELKEN  
 NO. 67435  
 Exp. 12/31/2024  
 8/23/2023  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

DRAWN BY: SMH  
 CHECKED BY: MRM  
 DATE: AUGUST 23, 2023  
 REVISIONS: BY: 4/3/2023 SMH PERMIT SUBMITTAL  
 6/27/2023 SMH REVISIONS PER PLAN CHECK COMMENTS #1  
 8/23/2023 SMH REVISIONS PER PLAN CHECK COMMENTS #2

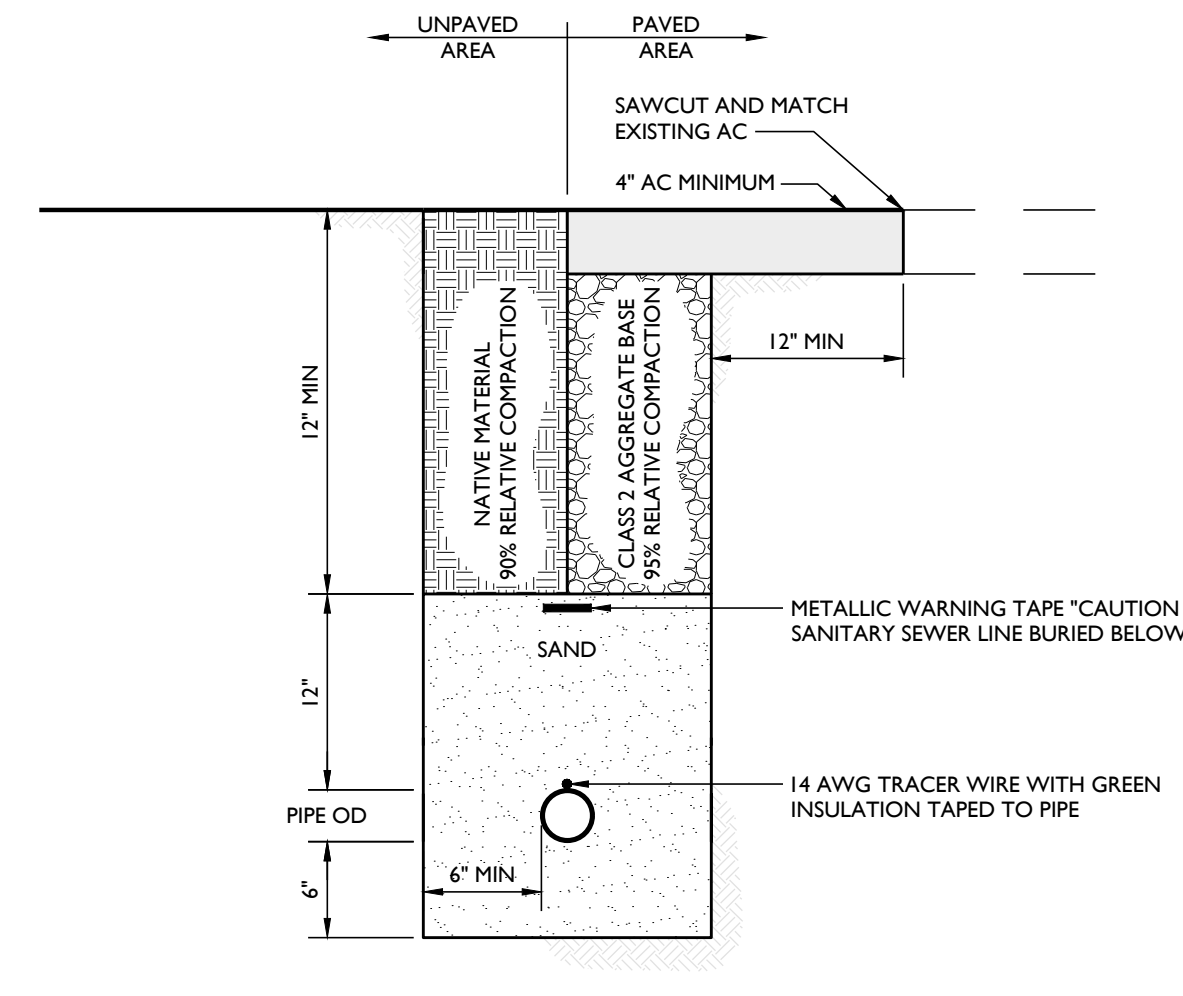
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 SHEET NUMBER:

**C14**  
 OF  
**20**

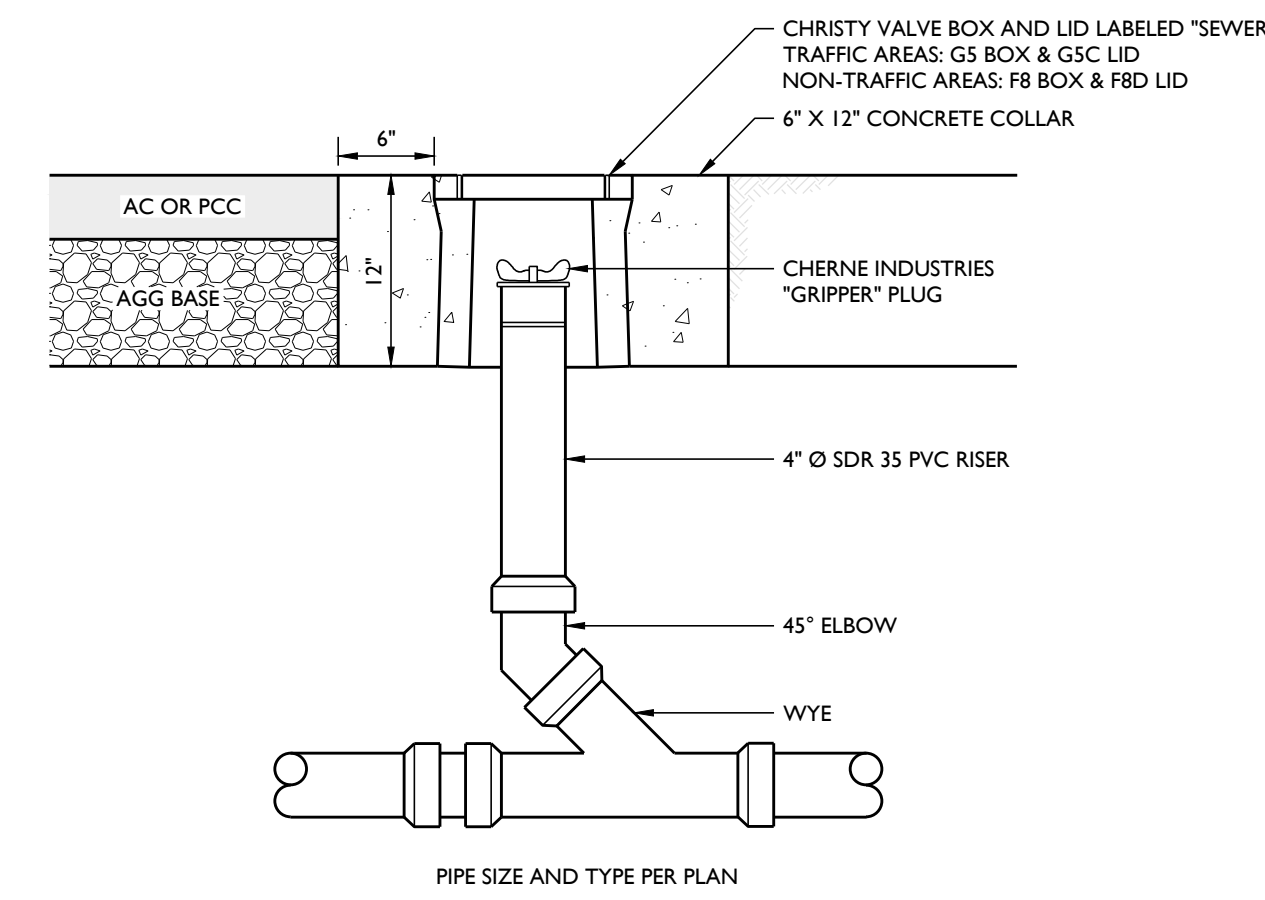




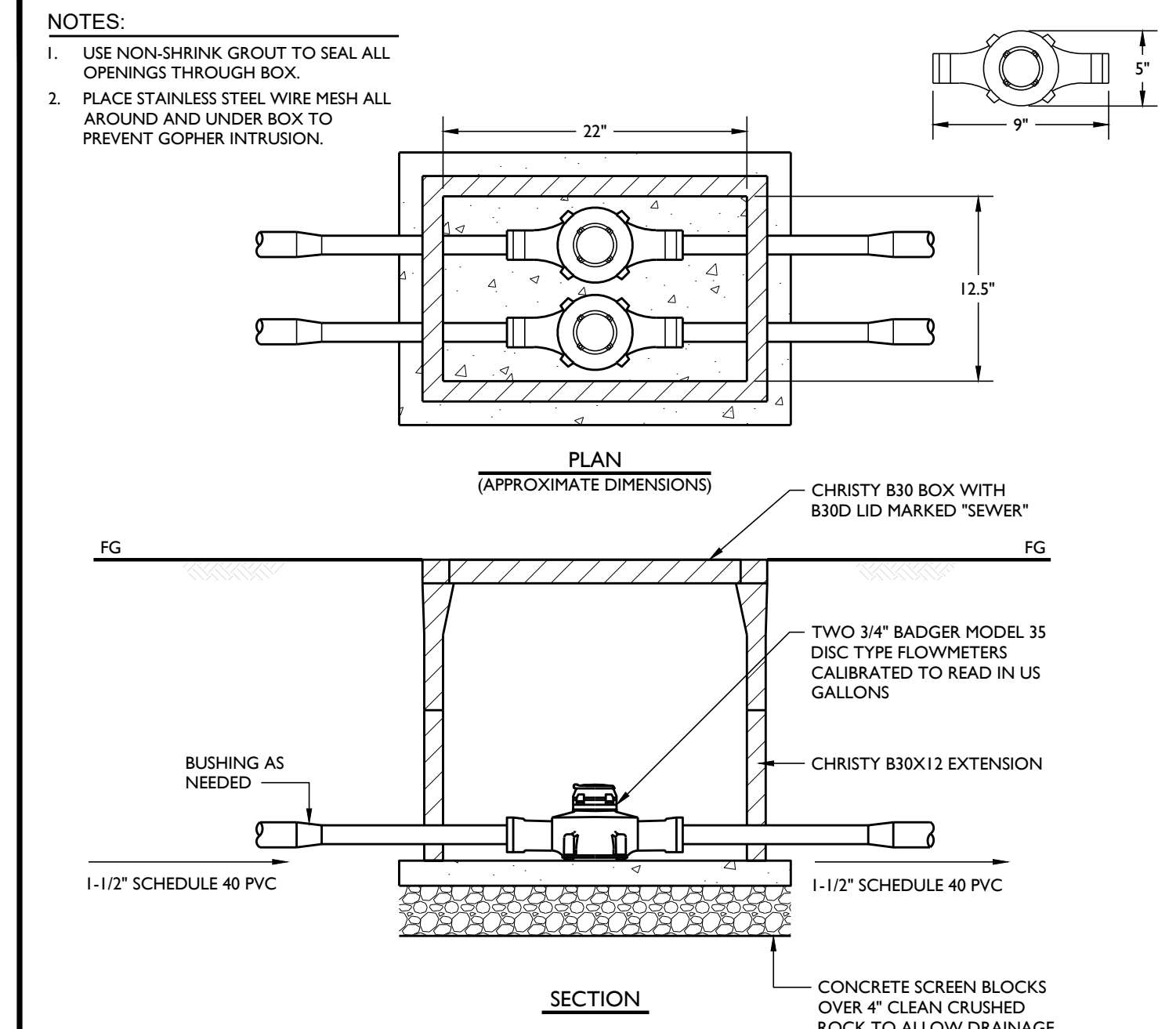
GRAVITY SEWER TRENCH DETAIL



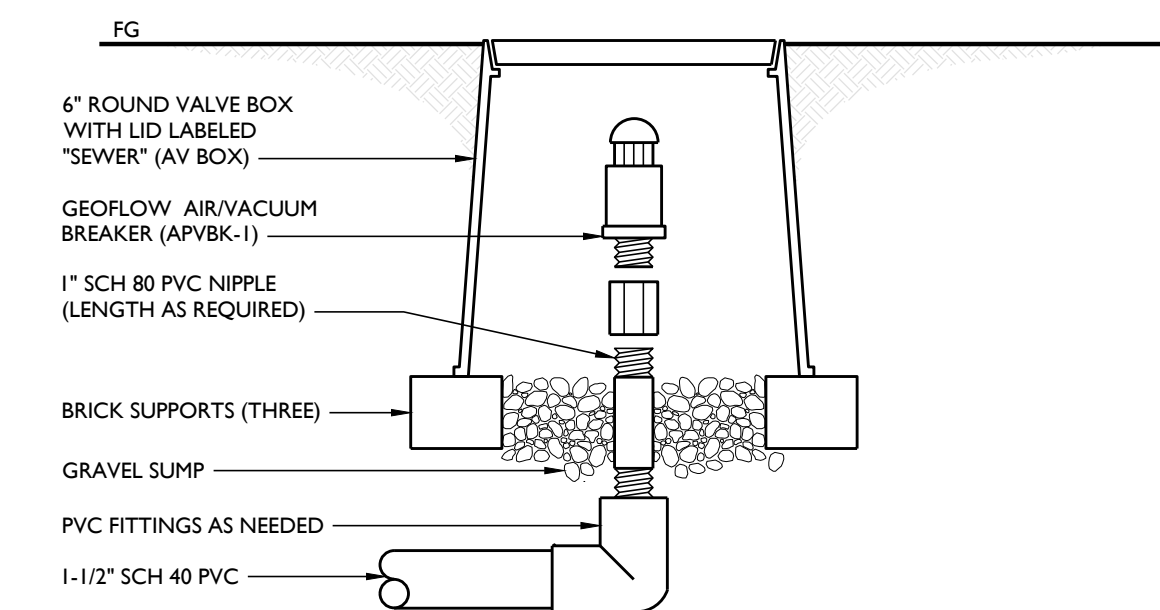
PRESSURE SEWER TRENCH DETAIL



SEWER CLEANOUT DETAIL



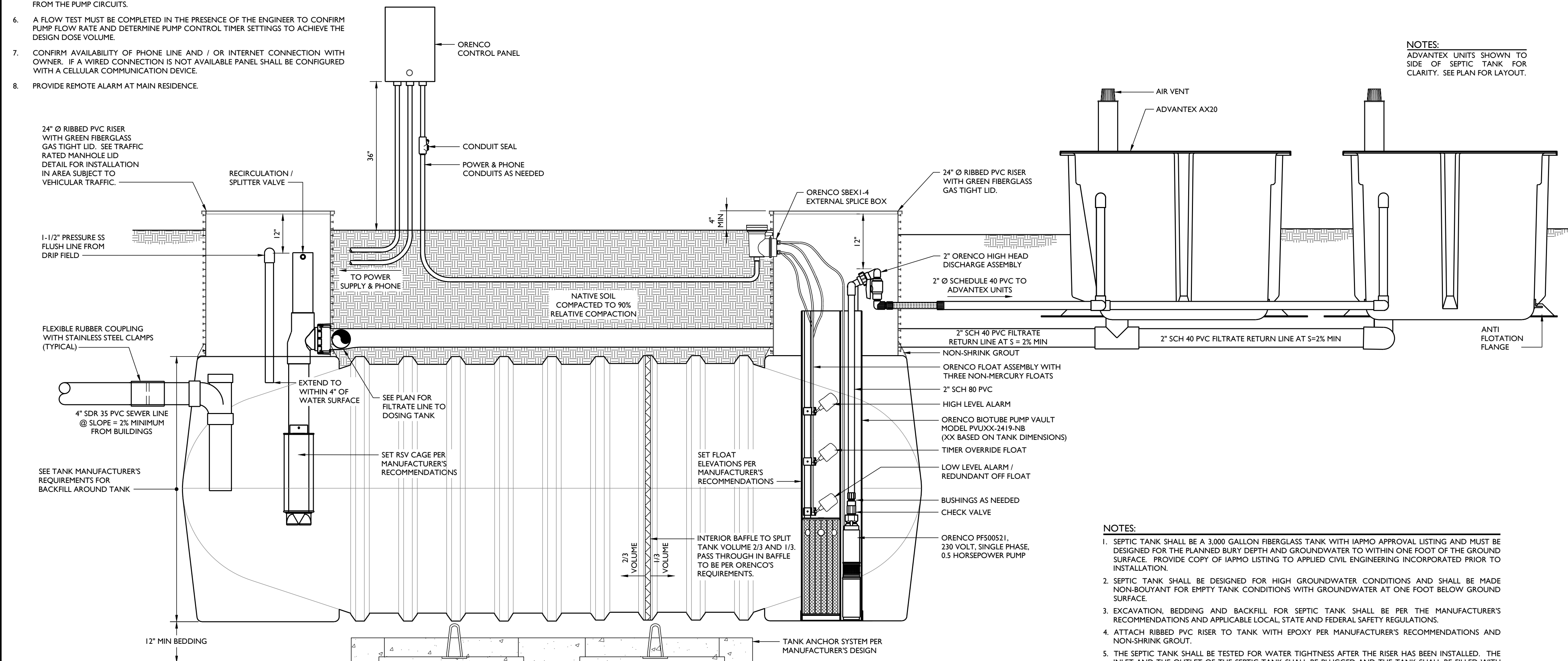
FLOWMETER DETAIL



AIR / VACUUM BREAKER DETAIL

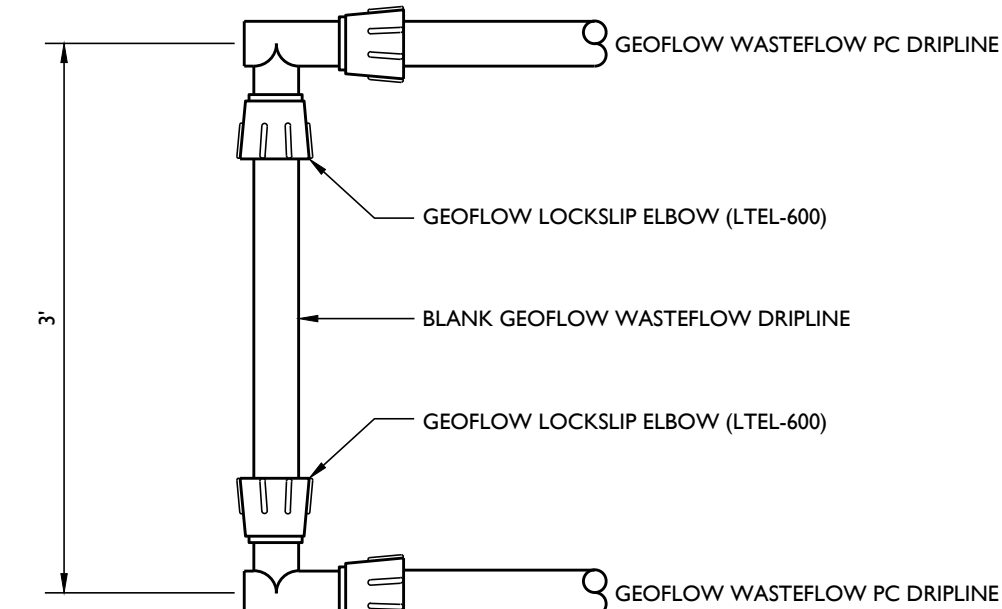
**PUMP CONTROL SYSTEM NOTES:**

1. INSTALL ONE ORENCO CONTROL PANEL TO CONTROL THE RECIRCULATION PUMP, THE DOSING PUMP AND THE SOLENOID VALVES IN THE HEADWORKS BOX. THE CONTROL PANEL SHALL HAVE NON-RESETTING HOUR METERS AND DOSE COUNTERS FOR EACH PUMP.
2. LOCATE CONTROL PANEL AS SHOWN IN PLAN VIEW.
3. CONTROL PANEL SHALL INCLUDE SWITCHES FOR MANUALLY TESTING PUMP AND ALARMS AND AN AUDIBLE AND VISUAL ALARM.
4. CONTROL PANEL ENCLOSURE SHALL BE NEMA 4X RATED.
5. THE PUMP CONTROLS AND ALARM SHALL HAVE A DEDICATED CIRCUIT SEPARATE FROM THE PUMP CIRCUITS.
6. A FLOW TEST MUST BE COMPLETED IN THE PRESENCE OF THE ENGINEER TO CONFIRM PUMP FLOW RATE AND DETERMINE PUMP CONTROL TIMER SETTINGS TO ACHIEVE THE DESIGN DOSE VOLUME.
7. CONFIRM AVAILABILITY OF PHONE LINE AND / OR INTERNET CONNECTION WITH OWNER. IF A WIRED CONNECTION IS NOT AVAILABLE PANEL SHALL BE CONFIGURED WITH A CELLULAR COMMUNICATION DEVICE.
8. PROVIDE REMOTE ALARM AT MAIN RESIDENCE.



NOTES:  
ADVANTEK UNITS SHOWN TO SIDE OF SEPTIC TANK FOR CLARITY. SEE PLAN FOR LAYOUT.

- NOTES:**
1. SEPTIC TANK SHALL BE A 3,000 GALLON FIBERGLASS TANK WITH IAPMO APPROVAL LISTING AND MUST BE DESIGNED FOR THE PLANNED BURY DEPTH AND GROUNDWATER TO WITHIN ONE FOOT OF THE GROUND SURFACE. PROVIDE COPY OF IAPMO LISTING TO APPLIED CIVIL ENGINEERING INCORPORATED PRIOR TO INSTALLATION.
  2. SEPTIC TANK SHALL BE DESIGNED FOR HIGH GROUNDWATER CONDITIONS AND SHALL BE MADE NON-BUOYANT FOR EMPTY TANK CONDITIONS WITH GROUNDWATER AT ONE FOOT BELOW GROUND SURFACE.
  3. EXCAVATION, BEDDING AND BACKFILL FOR SEPTIC TANK SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE LOCAL STATE AND FEDERAL SAFETY REGULATIONS.
  4. ATTACH RIBBED PVC RISER TO TANK WITH EPOXY PER MANUFACTURER'S RECOMMENDATIONS AND NON-SHRINK GROUT.
  5. THE SEPTIC TANK SHALL BE TESTED FOR WATER TIGHTNESS AFTER THE RISER HAS BEEN INSTALLED. THE INLET AND THE OUTLET OF THE SEPTIC TANK SHALL BE PLUGGED AND THE TANK SHALL BE FILLED WITH WATER TWO INCHES ABOVE THE TANK / RISER CONNECTION. THE TANK SHALL SIT, FILLED WITH WATER, FOR 24 HOURS. AFTER 24 HOURS THE WATER LEVEL SHALL BE RECORDED. THE WATER LEVEL SHALL BE RECHECKED AFTER AN ADDITIONAL ONE HOUR. THE ENGINEER SHALL DETERMINE IF THE TANK IS WATERTIGHT BASED ON THESE RECORDED WATER LEVEL READINGS.
  6. ALL PENETRATIONS THROUGH THE RISER SHALL BE SEALED WITH A FLEXIBLE RUBBER GROMMET AND SILICON SEALANT.
  7. VERTICAL DIMENSIONS SHOWN ARE BASED ON AN 8 FOOT TANK DIAMETER. CONTACT ENGINEER FOR ADJUSTED DIMENSIONS IF A TANK WITH DIFFERENT DIMENSIONS IS USED.
  8. IAPMO APPROVED CONCRETE TANKS CAN BE CONSIDERED ON A CASE BY CASE BASIS.



LOCKSLIP ELBOW LOOP DETAIL

MAIN RESIDENCE FIBERGLASS SEPTIC TANK AND ADVANTEK AX20 DETAIL

PREPARED UNDER THE DIRECTION OF:



DRAWN BY: SMJ

CHECKED BY: MRM

DATE: AUGUST 23, 2023

REVISIONS: BY: 4/3/2023 SMJ PERMIT SUBMITTAL

6/27/2023 SMJ REVISIONS PER PLAN CHECK COMMENTS #1

8/23/2023 SMJ REVISIONS PER PLAN CHECK COMMENTS #2

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OF



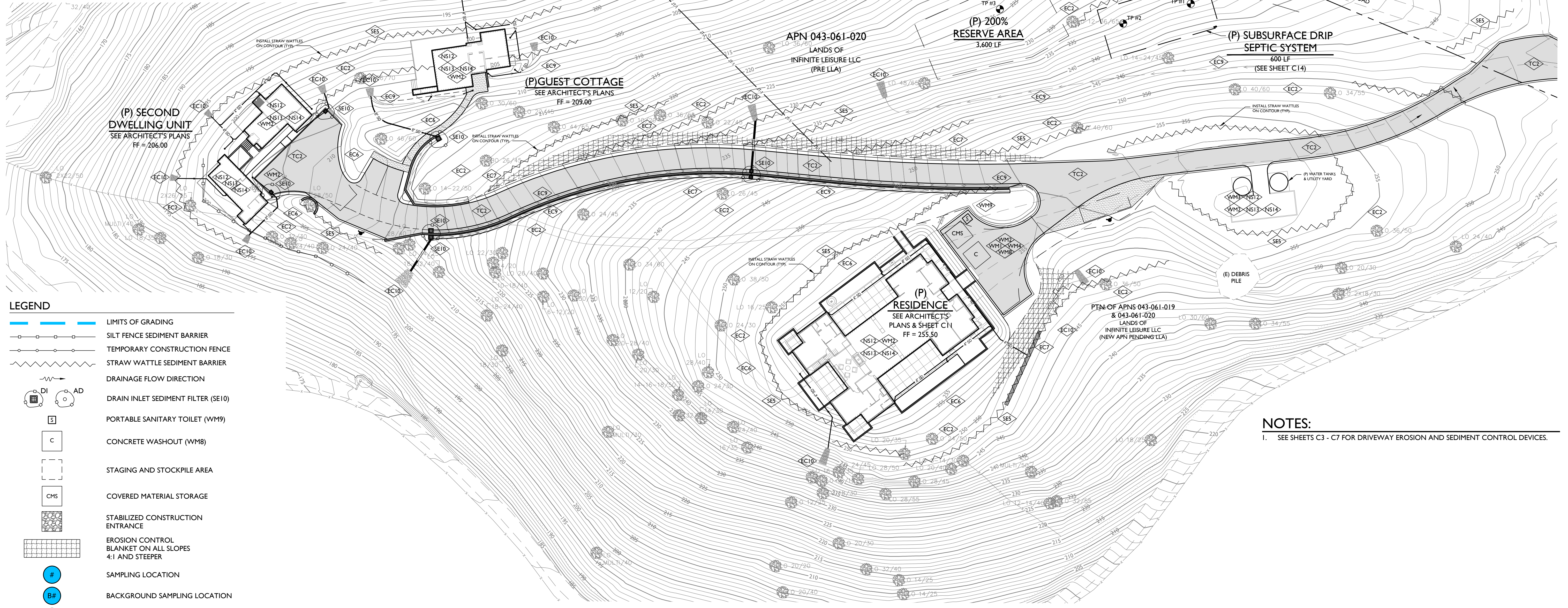
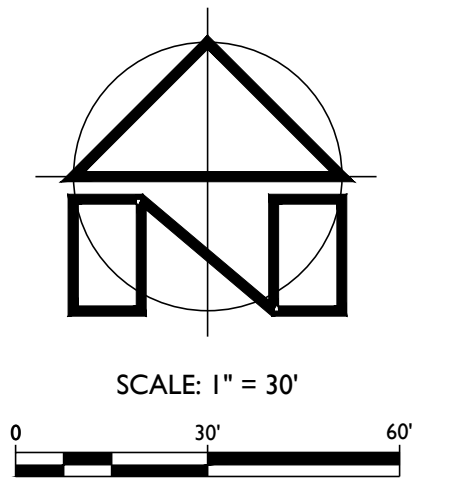




**BMP NOTES:** 4

ALL DISTURBED AREAS MUST BE WINTERIZED BY OCTOBER 15TH OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION. THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE. ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE ENGINEER OR COUNTY INSPECTORS. BMP LOCATIONS ARE SHOWN ON THE SITE MAP. BMPs NOT SHOWN ON THE MAP ARE TO BE IMPLEMENTED AS NEEDED THROUGHOUT THE SITE. BMPs THAT ARE LINED OUT ARE NOT ANTICIPATED TO BE NEEDED BUT COULD BE REQUIRED AS CONDITIONS NECESSITATE.

- EROSION CONTROL**
- EC1 - SCHEDULING
  - EC2 - PRESERVATION OF EXISTING VEGETATION
  - EC3 - HYDRAULIC MULCH
  - EC4 - HYDROSEEDING
  - EC5 - SOIL BINDERS
  - EC6 - STRAW MULCH
  - EC7 - GEOTEXTILES & MATS
  - EC8 - WOOD MULCHING
  - EC9 - EARTH DIKES AND DRAINAGE SWALES
  - EC10 - VELOCITY DISSIPATION DEVICES
  - EC11 - SLOPE DRAINS
  - EC12 - STREAMBANK STABILIZATION
  - EC13 - POLYACRYLAMIDE
- TEMPORARY SEDIMENT CONTROL**
- SE1 - SILT FENCE
  - SE2 - SEDIMENT BASIN
  - SE3 - SEDIMENT TRAP
  - SE4 - CHECK DAM
  - SE5 - FIBER ROLLS
  - SE6 - GRAVEL BAG BERM
  - SE7 - STREET SWEEPING AND VACUUMING
  - SE8 - SANDBAG BARRIER
  - SE9 - STRAW BALE BARRIER
  - SE10 - STORM DRAIN INLET PROTECTION
- WIND EROSION CONTROL**
- WE1 - WIND EROSION CONTROL
- EQUIPMENT TRACKING CONTROL**
- TC1 - STABILIZED CONSTRUCTION ENTRANCE EXIT
  - TC2 - STABILIZED CONSTRUCTION ROADWAY
  - TC3 - ENTRANCE/OUTLET TIRE WASH
- NON-STORMWATER MANAGEMENT**
- NS1 - WATER CONSERVATION PRACTICES
  - NS2 - DEWATERING OPERATIONS
  - NS3 - PAVING AND GRINDING OPERATIONS
  - NS4 - TEMPORARY STREAM CROSSING
  - NS5 - CLEAR WATER DIVERSION
  - NS6 - ILLICIT CONNECTION/DISCHARGE
  - NS7 - POTABLE WATER/IRRIGATION
  - NS8 - VEHICLE AND EQUIPMENT CLEANING
  - NS9 - VEHICLE AND EQUIPMENT FUELING
  - NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
  - NS11 - PILE DRIVING OPERATIONS
  - NS12 - CONCRETE CURING
  - NS13 - CONCRETE FINISHING
  - NS14 - MATERIAL AND EQUIPMENT USE
  - NS15 - DEMOLITION ADJACENT TO WORK
  - NS16 - TEMPORARY BATCH PLANTS
- WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL**
- WM1 - MATERIAL DELIVERY AND STORAGE
  - WM2 - MATERIAL USE
  - WM3 - STOCKPILE MANAGEMENT
  - WM4 - SPILL PREVENTION AND CONTROL
  - WM5 - SOLID WASTE MANAGEMENT
  - WM6 - HAZARDOUS WASTE MANAGEMENT
  - WM7 - CONTAMINATED SOIL MANAGEMENT
  - WM8 - CONCRETE WASTE MANAGEMENT
  - WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
  - WM10 - LIQUID WASTE MANAGEMENT



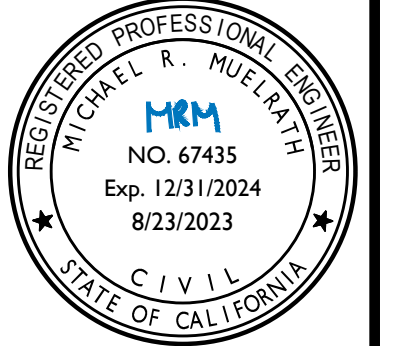
- LEGEND**
- LIMITS OF GRADING
  - SILT FENCE SEDIMENT BARRIER
  - TEMPORARY CONSTRUCTION FENCE
  - STRAW WATTLE SEDIMENT BARRIER
  - DRAINAGE FLOW DIRECTION
  - DRAIN INLET SEDIMENT FILTER (SE10)
  - PORTABLE SANITARY TOILET (WM9)
  - CONCRETE WASHOUT (WM8)
  - STAGING AND STOCKPILE AREA
  - COVERED MATERIAL STORAGE
  - STABILIZED CONSTRUCTION ENTRANCE
  - EROSION CONTROL BLANKET ON ALL SLOPES 4:1 AND STEEPER
  - SAMPLING LOCATION
  - BACKGROUND SAMPLING LOCATION
  - NON-VISIBLE POLLUTANT SAMPLING LOCATION
  - RUN-ON SAMPLING LOCATION

**NOTES:**  
 1. SEE SHEETS C3 - C7 FOR DRIVEWAY EROSION AND SEDIMENT CONTROL DEVICES.

**EROSION & SEDIMENT CONTROL PLAN**  
 SCALE: 1" = 30'

**INFINITE LEISURE LLC**  
 SITE IMPROVEMENT PLANS  
 EROSION & SEDIMENT CONTROL PLAN

PREPARED UNDER THE DIRECTION OF:



DRAWN BY:	SMI
CHECKED BY:	MRM
DATE:	AUGUST 23, 2023
REVISIONS:	BY:
4/3/2023	SMI
PERMIT SUBMITTAL	
6/27/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #1	
8/23/2023	SMI
REVISIONS PER PLAN	
CHECK COMMENTS #2	

JOB NUMBER:  
22-117

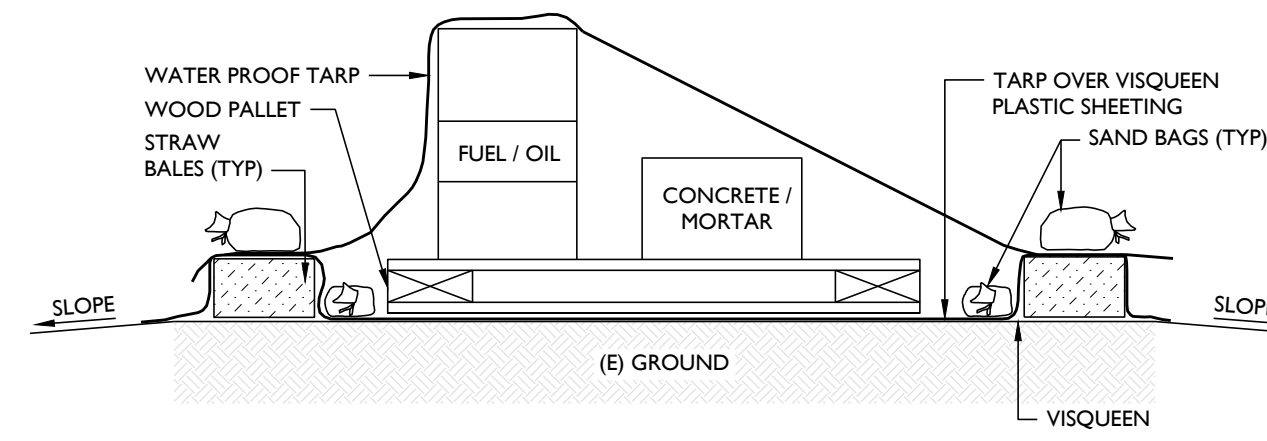
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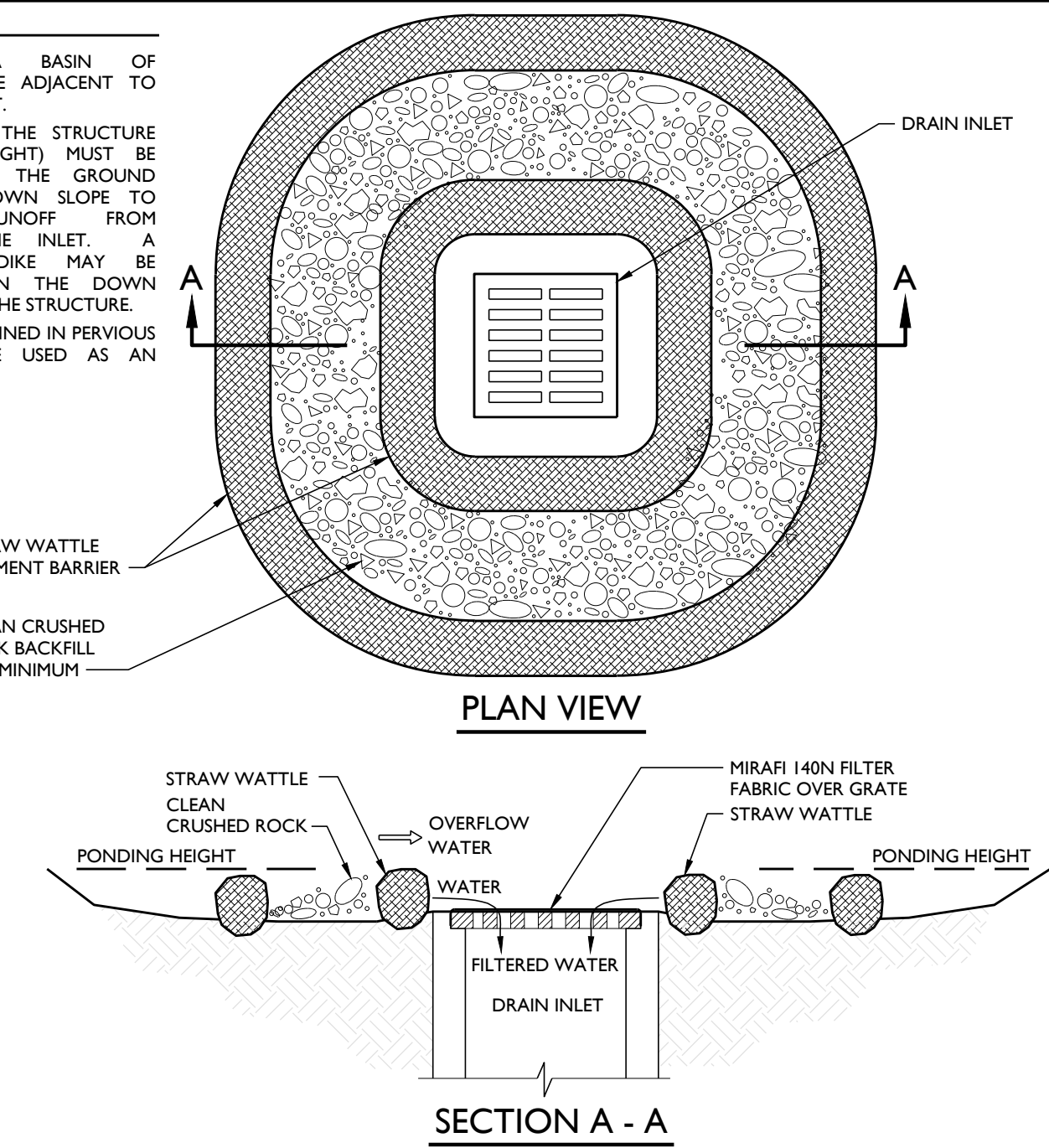


- NOTES:**
- EXISTING GROUND SHALL BE PROTECTED BY A LAYER OF 6 MIL. (MIN) VISQUEEN PLASTIC SHEETING PLUS A TARP OVER THE VISQUEEN LAYER.
  - VISQUEEN, SANDBAGS, AND STRAW BALES SHALL ACT AS A BASIN FOR CONTAINMENT OF ANY SPILLS. THE CONTAINMENT VOLUME SHALL BE AT LEAST TWO TIMES THE VOLUME OF THE LARGEST LIQUID CONTAINER WITHIN THE BASIN.
  - WATERPROOF TARP SHALL BE PLACED OVER CONSTRUCTION MATERIALS WHENEVER THEY ARE NOT IN USE. AT THE END OF EACH WORK DAY AND AT ALL TIMES WHILE IT IS RAINING, TARP SHALL BE SECURED USING SANDBAGS.
  - ALTERNATIVELY, MATERIALS MAY BE STORED INSIDE A STORAGE CONTAINER OR EQUIVALENT STRUCTURE THAT WILL PREVENT STORMWATER CONTAMINATION.



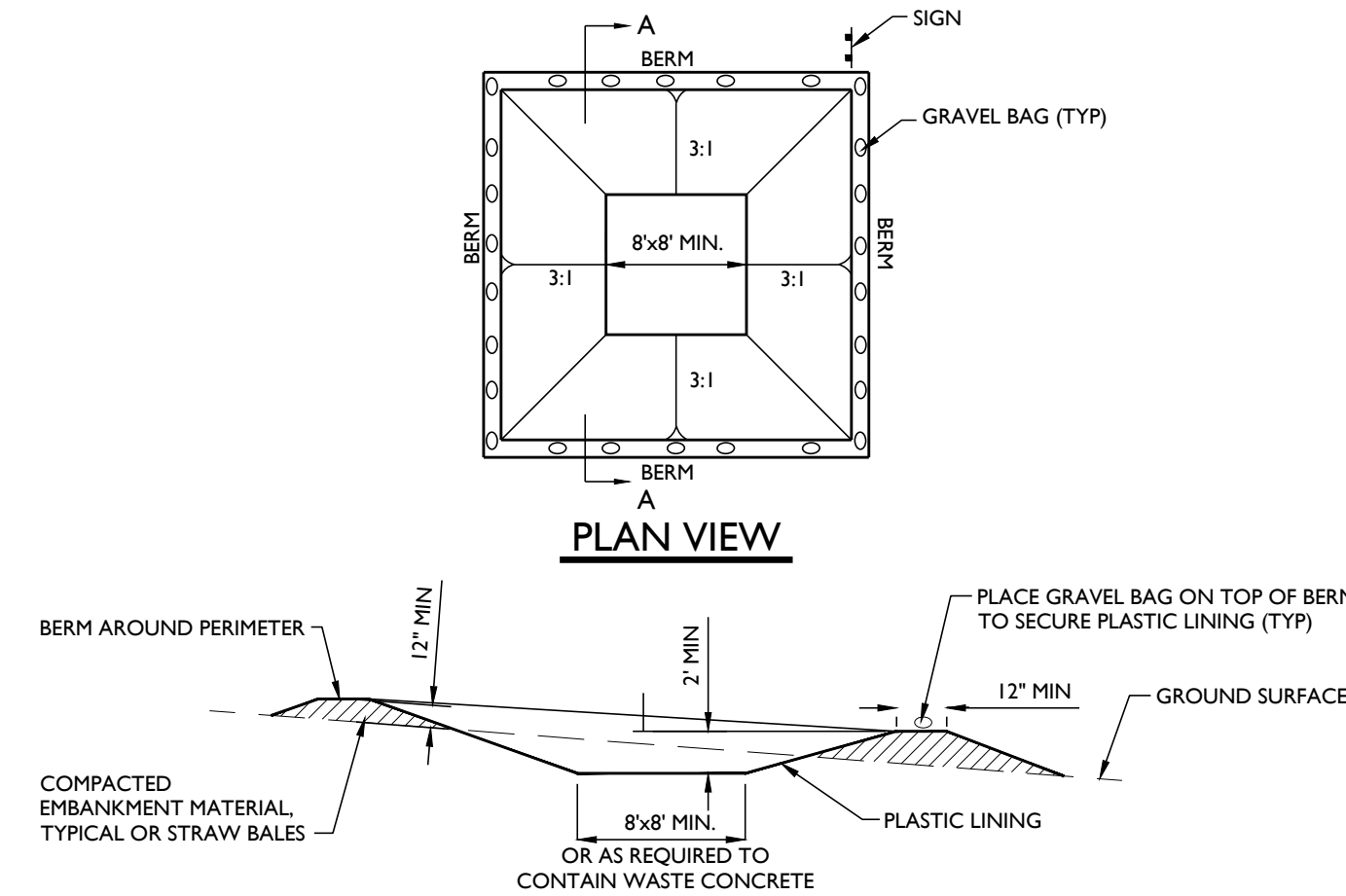
**COVERED MATERIAL STORAGE AREA DETAIL**

- NOTES:**
- EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DRAIN INLET.
  - THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWN SLOPE SIDE OF THE STRUCTURE.
  - GRAVEL CONTAINED IN PERVIOUS BAGS MAY BE USED AS AN ALTERNATE.



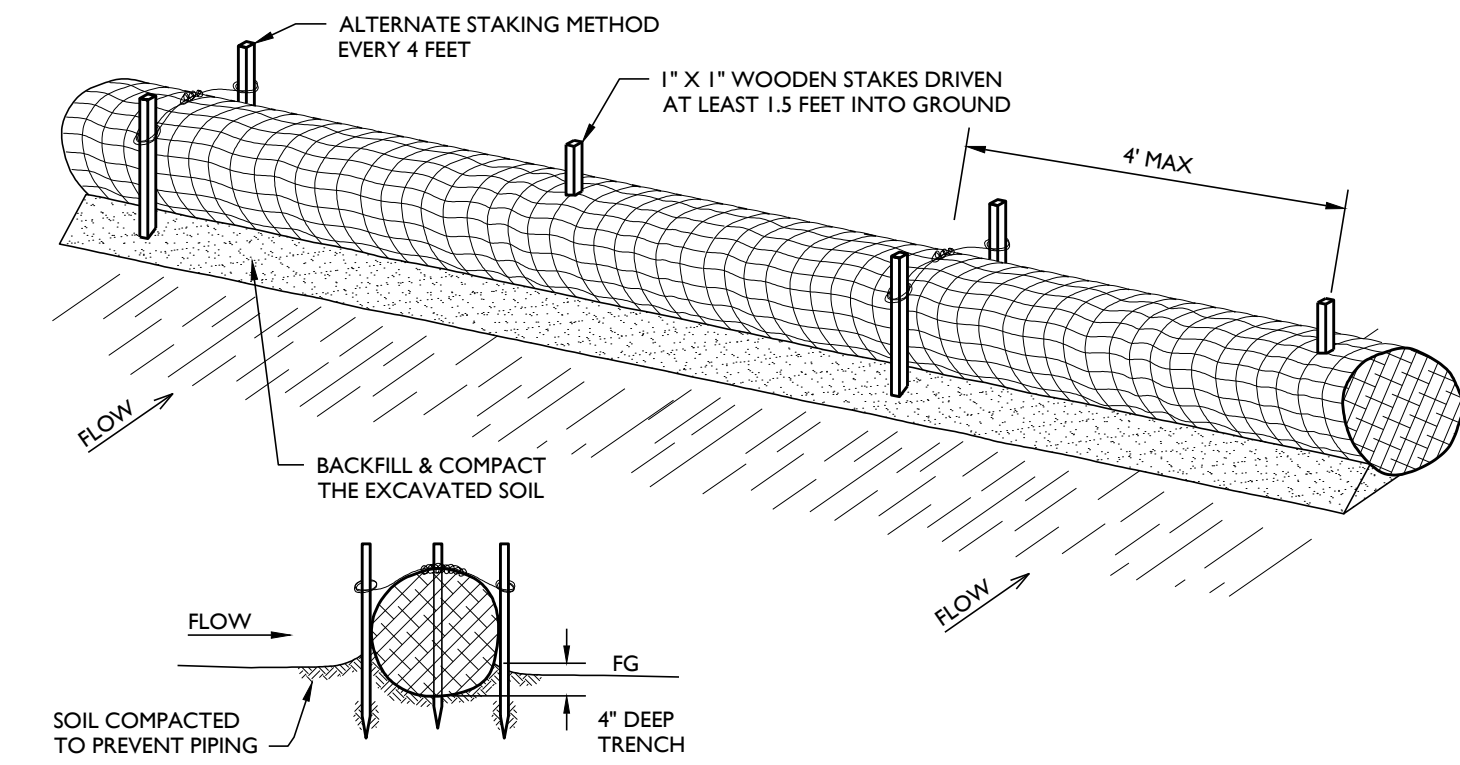
**STRAW WATTLE DRAIN INLET SEDIMENT BARRIER DETAIL**

- NOTES:**
- SEE PLAN VIEW FOR LOCATION OF CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
  - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF THE CONCRETE TRUCKS AND PUMP RIGS.
  - EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
  - THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
  - AT THE END OF CONSTRUCTION ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.



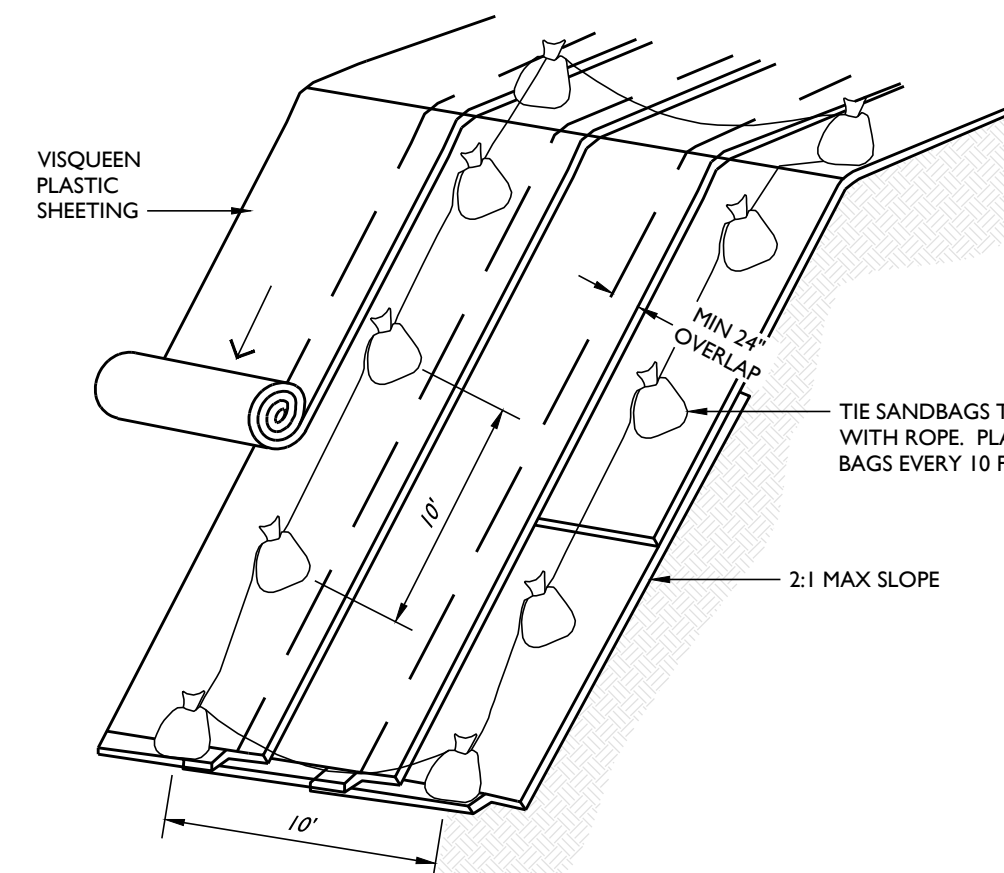
**CONCRETE WASHOUT AREA DETAIL**

- NOTES:**
- PREPARE SMOOTH SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
  - DIG SHALLOW TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE ONE THIRD TO ONE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
  - IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR. A HAND LEVEL, LASER LEVEL OR EQUIVALENT TYPE OF INSTRUMENT SHOULD BE USED TO ENSURE LEVEL INSTALLATION. START DIGGING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
  - LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
  - USE A STRAIGHT BAR TO DRIVE CLEAN HOLES THROUGH THE WATTLE AND INTO THE SOIL. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
  - INSTALL STAKES AT 4 FEET MAX INTERVALS.
  - USE EXCAVATED MATERIAL TO CREATE COMPACTED BERM ON UPSLOPE SIDE OF ROLL TO PREVENT WATER FROM PIPING UNDER ROLL AND FORCE IT TO FILTER THROUGHOUT THE ROLL.
  - ENDS OF ROLLS SHOULD BE OVERLAPPED 1' AND SHOULD BE SECURELY STAKED TO PREVENT WATER PASSAGE THROUGH THE JOINT.
  - WATTLES WITH PLASTIC NETTING MUST BE REMOVED AFTER THE WET SEASON HAS ENDED.



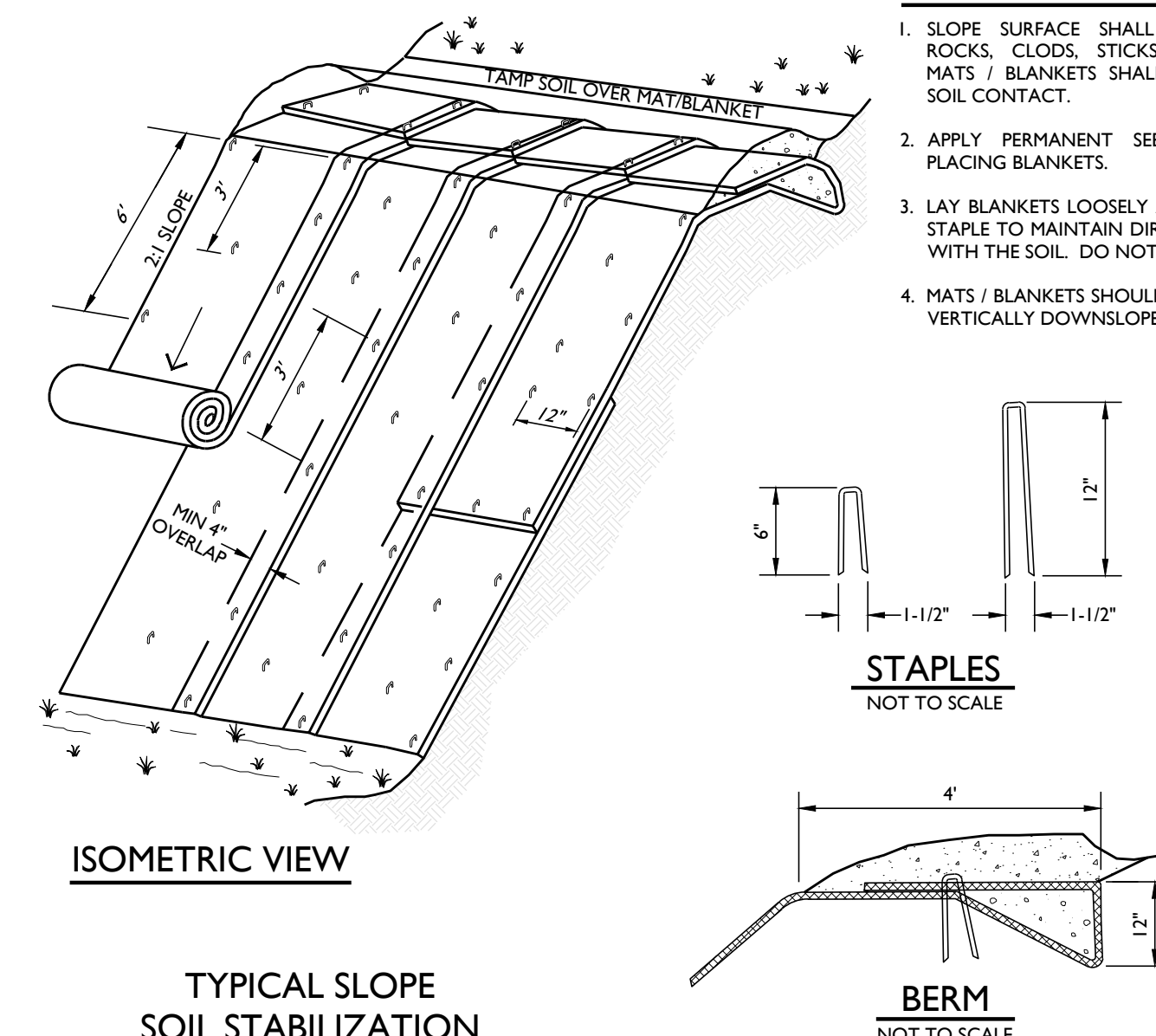
**FIBER ROLL / WATTLE SEDIMENT BARRIER DETAIL**

- NOTES:**
- STOCKPILE SHALL BE COVERED WITH VISQUEEN PLASTIC SHEETING OR EQUIVALENT.
  - COVER SHALL BE INSTALLED VERTICALLY DOWNSLOPE.
  - COVER SHALL BE INSTALLED SECURELY IN ORDER TO PROTECT FROM WIND AND RAIN AT ALL TIMES WHEN NOT IN USE AND DURING ALL RAIN EVENTS.
  - STOCKPILE SHALL BE PROTECTED FROM RUN-ON BY INSTALLING A GRAVEL BAG BERM OR SEDIMENT BARRIERS AROUND TOE OF STOCKPILE.



**STOCKPILE DETAIL**

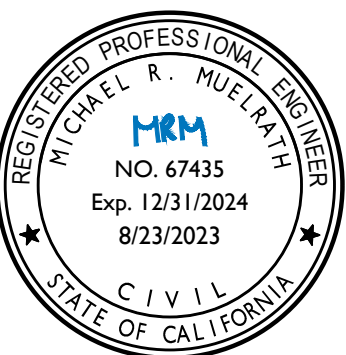
- NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  - APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
  - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
  - MATS / BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.



**TYPICAL SLOPE SOIL STABILIZATION**

**EROSION CONTROL BLANKET DETAIL**

PREPARED UNDER THE DIRECTION OF:



DRAWN BY:

SMI

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DATE:

AUGUST 23, 2023

REVISIONS:

BY:

4/3/2023 SMI

PERMIT SUBMITTAL

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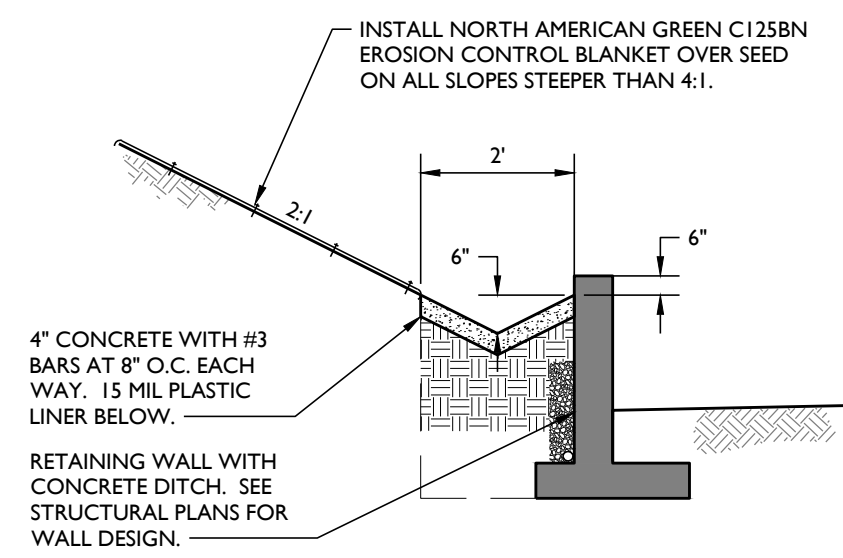
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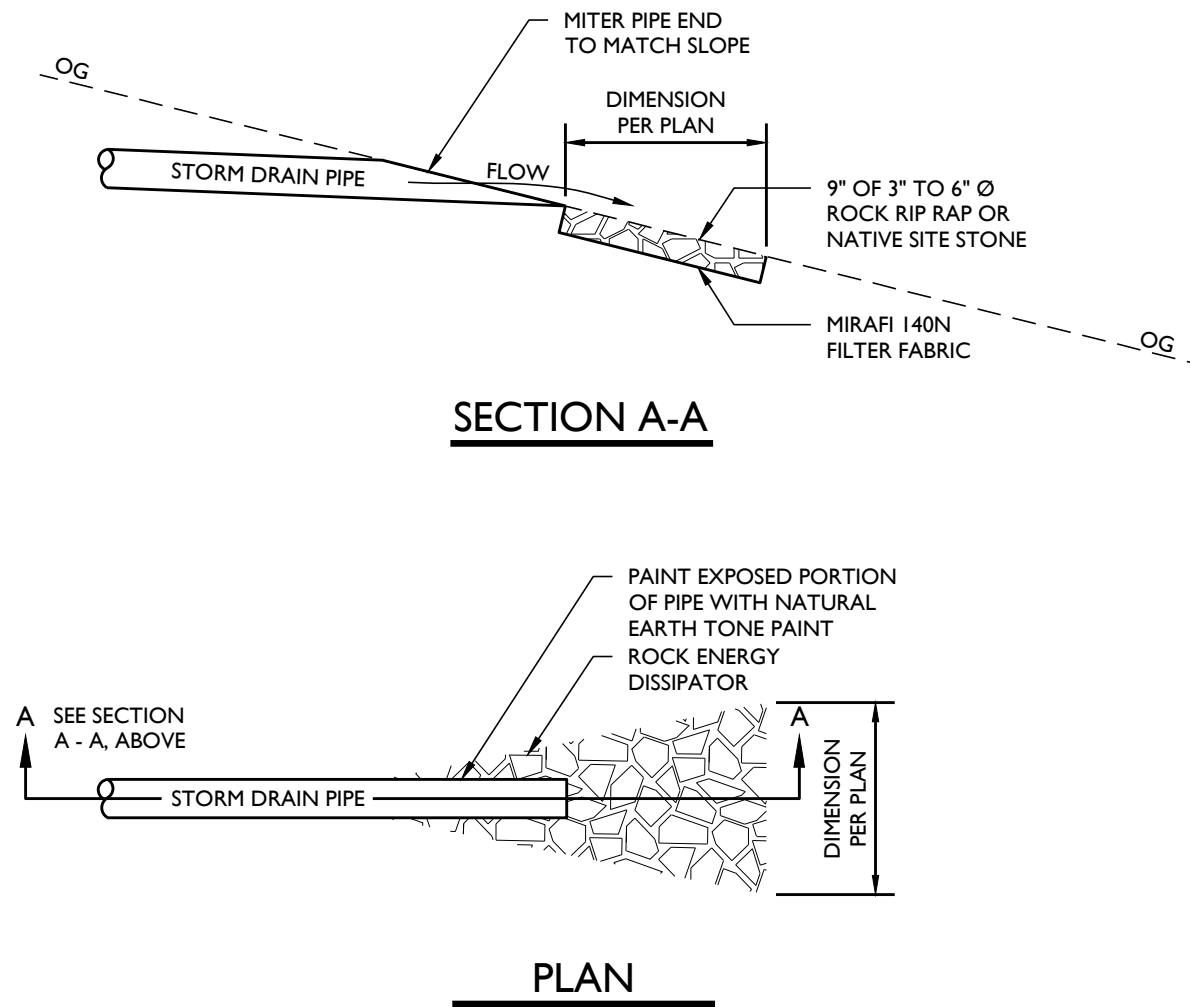
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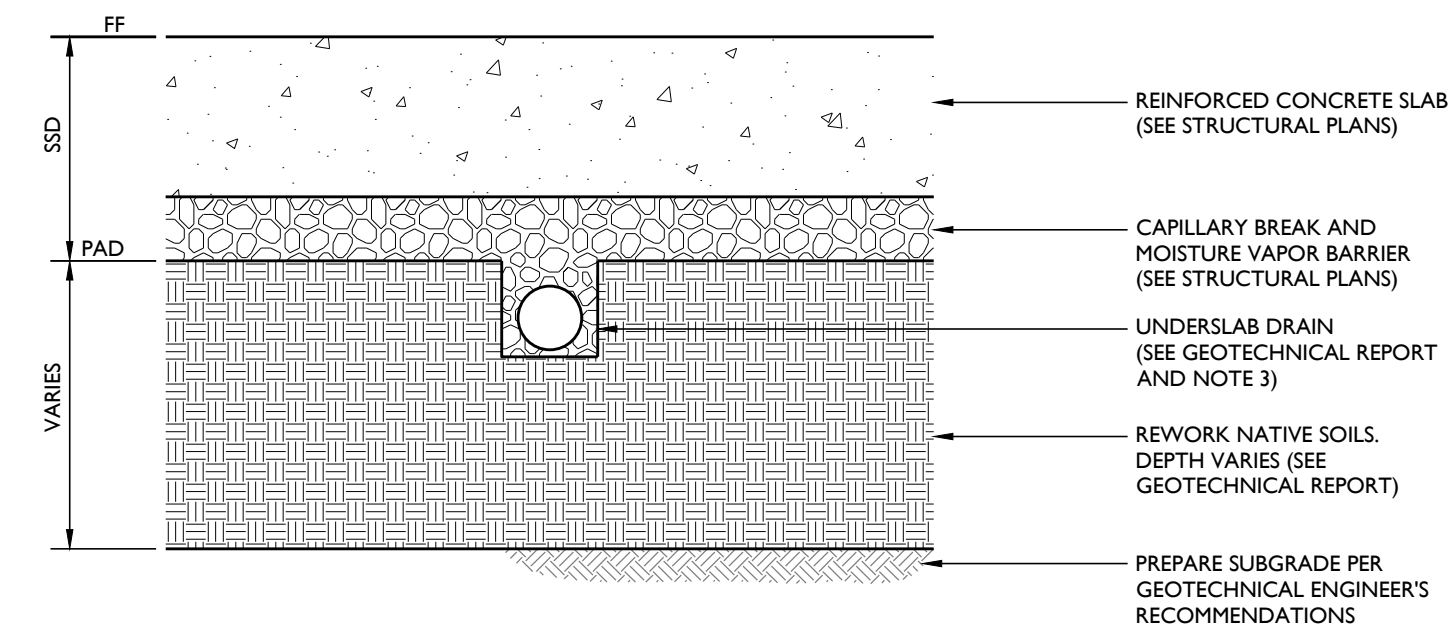


CONCRETE SWALE AT RETAINING WALL

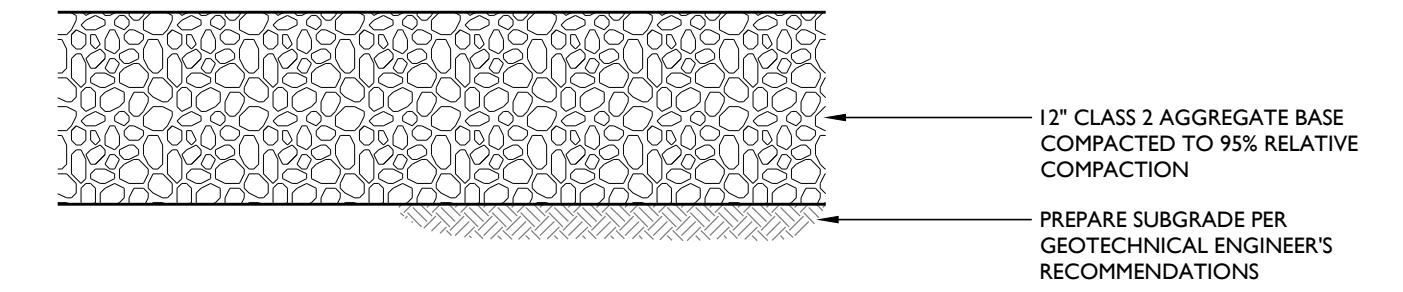


ROCK ENERGY DISSIPATOR ON SLOPE DETAIL

- NOTES:
1. SEE GEOTECHNICAL REPORT AND STRUCTURAL PLANS FOR ADDITIONAL REQUIREMENTS.
  2. EXTEND BUILDING PAD AT LEAST 5 FEET BEYOND OUTSIDE FACE OF FOOTING.
  3. UNDER SLAB DRAIN OUTLET LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

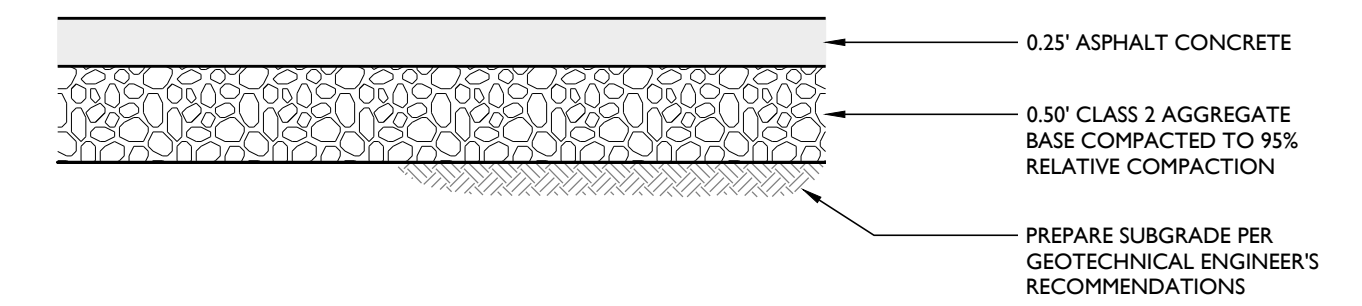


MAIN RESIDENCE BUILDING PAD DETAIL

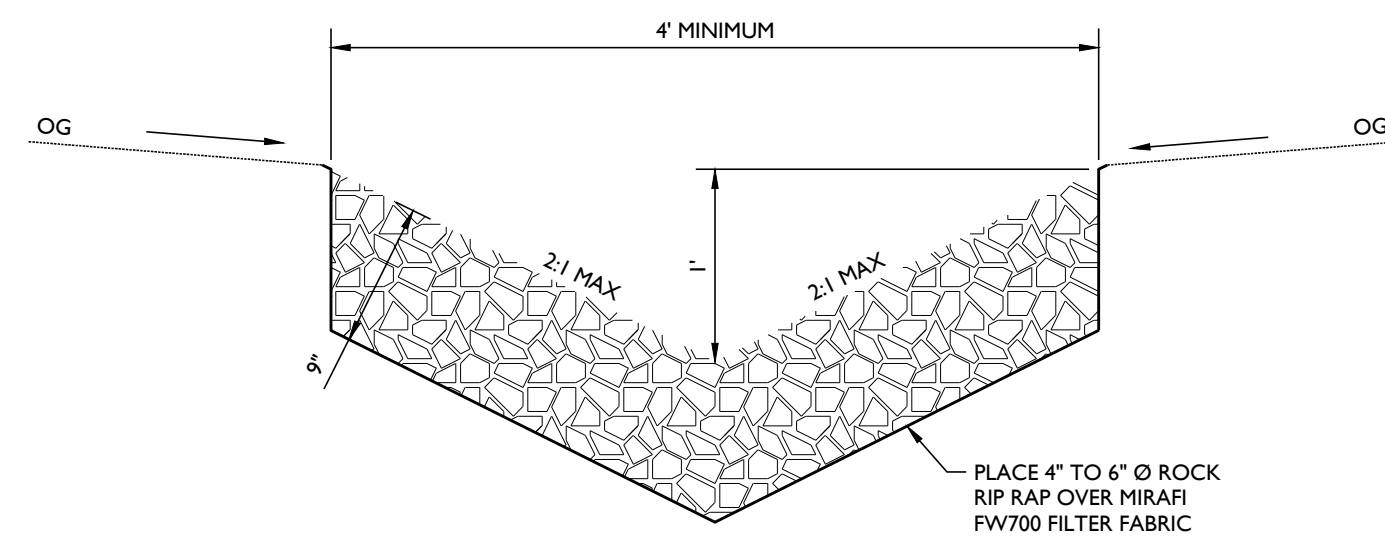


GRAVEL PAVING DETAIL

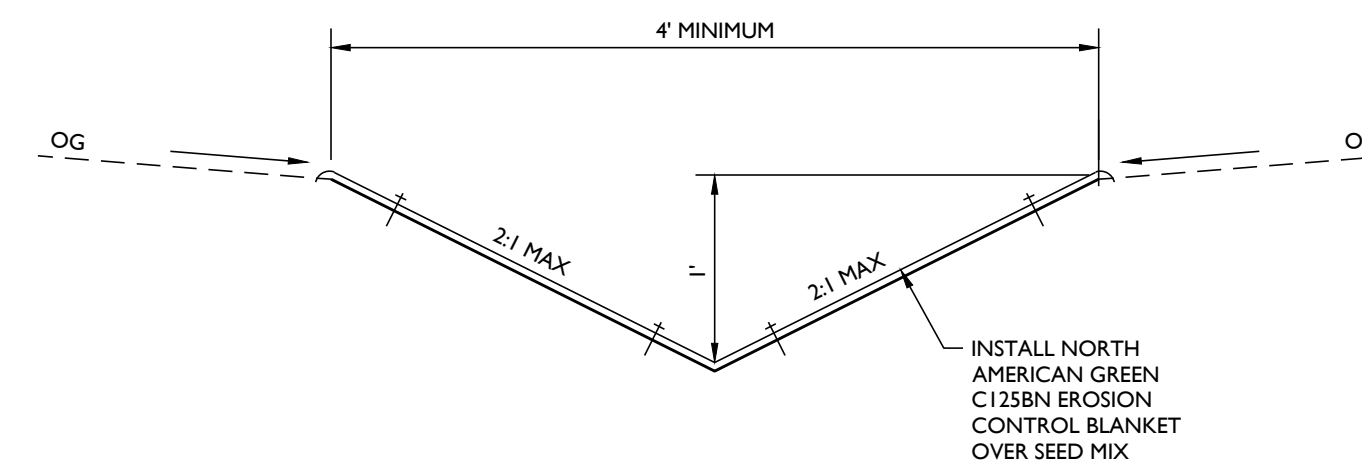
- NOTES:
1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
  2. EXTEND SUBGRADE PREPARATION 3 FEET BEYOND EDGE OF PAVEMENT.
  3. PAVEMENT SECTION IS BASED ON A TI OF 6 AND R VALUE OF 40.



ASPHALT CONCRETE DETAIL

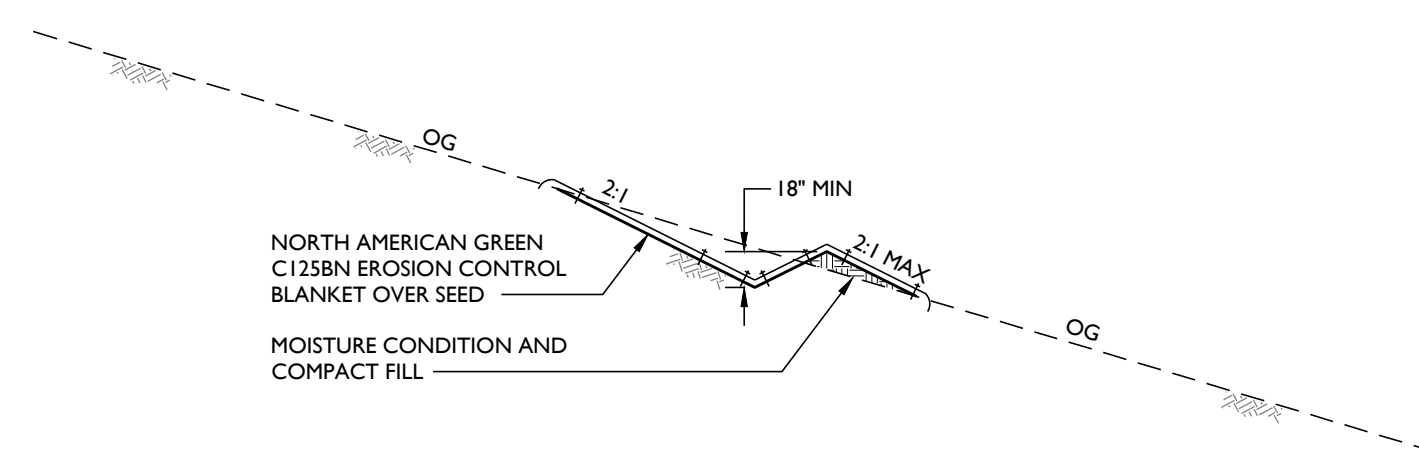


ROCK LINED SWALE DETAIL

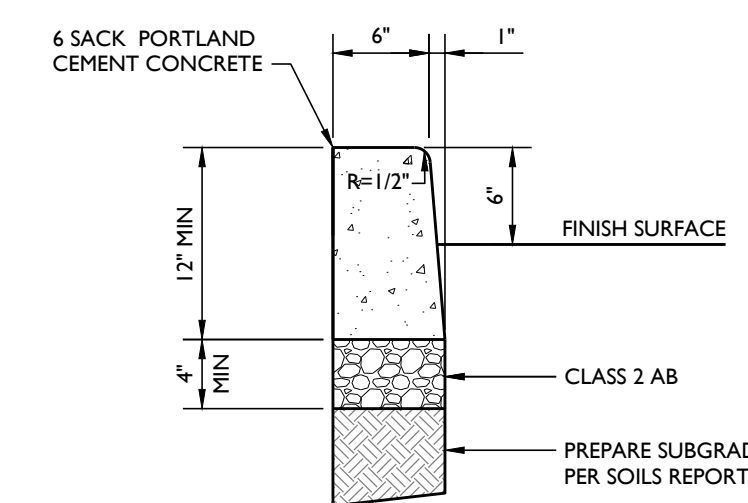


BLANKET LINED SWALE DETAIL

- NOTES:
1. INSTALL WEAKENED PLANE JOINTS EVERY 10 FEET.
  2. INSTALL EXPANSION JOINTS EVERY 40 FEET.

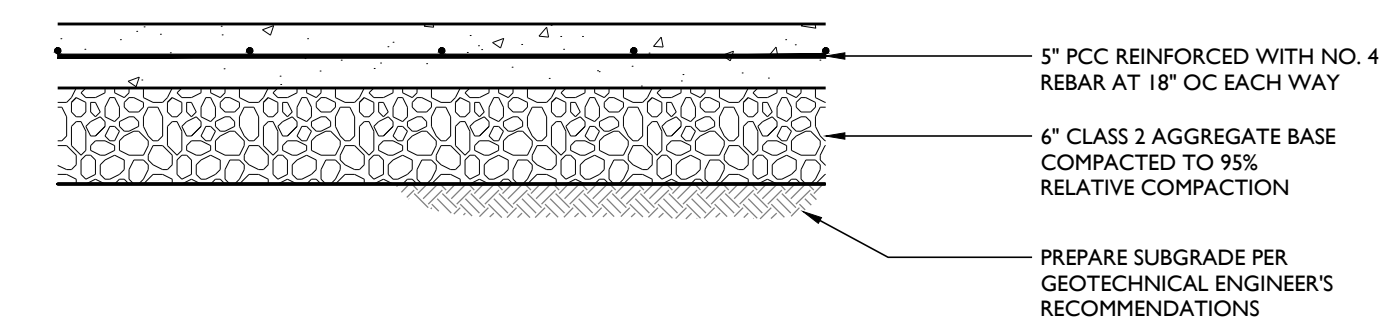


CROSS SLOPE DIVERSION DETAIL



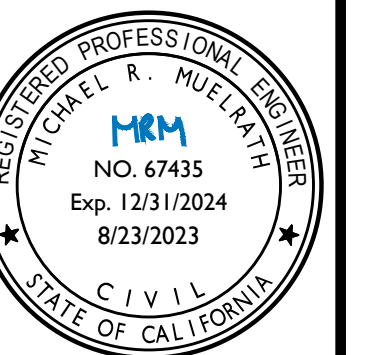
VERTICAL CURB DETAIL

- NOTES:
1. THIS DETAIL APPLIES TO PEDESTRIAN WALKWAYS ONLY.
  2. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.



LIGHT DUTY CONCRETE DETAIL

PREPARED UNDER THE DIRECTION OF:



DRAWN BY:

SMI

CHECKED BY:

MRM

DATE:

AUGUST 23, 2023

REVISIONS:

4/3/2023

SMI

PERMIT SUBMITTAL

6/27/2023

SMI

REVISIONS PER PLAN CHECK COMMENTS #1

8/23/2023

SMI

REVISIONS PER PLAN CHECK COMMENTS #2

JOB NUMBER:

22-117

FILE:

22-117IMP\_DETAILS.DWG

ORIGINAL SIZE:

24" X 36"

SHEET NUMBER:

C19

OF

20



