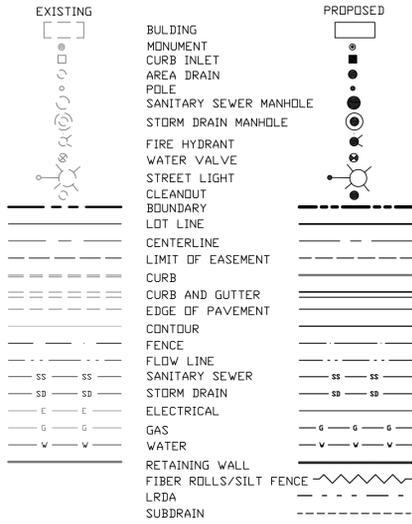


LEGEND



ABBREVIATIONS

- A.D. AREA DRAIN
- BC BEGINNING OF CURVE
- BVC BEGINNING OF VERTICAL CURVE
- CL CENTERLINE
- CO CLEANOUT
- CONSTR CONTRACT
- EC END OF CURVE
- EX EXISTING
- EVC END OF VERTICAL CURVE
- FH FIRE HYDRANT
- FL FLOWLINE
- G GROUND
- GR GRATE
- HDPE HIGH DENSITY POLYETHYLENE
- INV INVERT
- JP JOINT POLE
- MH MANHOLE
- MON MONUMENT
- PL PROPERTY LINE
- PVC POLY VINYL CHLORIDE
- RCP REINFORCED CONCRETE PIPE
- SDI INLET
- SD STORM DRAIN
- SDE STORM DRAIN EASEMENT
- S SLOPE
- SS SANITARY SEWER
- SSE SANITARY SEWER EASEMENT
- STA STATION
- TC TOP OF CURB
- TP TOP OF PAVEMENT
- TW TOP OF WALL
- VC VERTICAL CURVE
- W WATER
- WM WATER METER
- WV WATER VALVE

TOWN OF LOS GATOS GRADING NOTES

1. All work shall conform to Chapter 12 of the Town of Los Gatos Grading Ordinance, the adopted California Building Code and the latest edition of the Standard Specifications for Public Works Construction except as specified otherwise on these plans and details.
2. No work may be started on-site without an approved Grading Plan and a Grading Permit issued by the Town of Los Gatos, Parks & Public Works Department located at 41 Miles Avenue, Los Gatos, CA 95030
3. A Pre-Job meeting shall be held with the Town Engineering Inspector from the Department of Parks & Public Works prior to any work being done. The Contractor shall call the Inspections Line at 408.399.5771 at least 48 hours prior to any grading or onsite work. This meeting should include:
 - a. A discussion of the project conditions of approval, working hours, site maintenance and other construction matters;
 - b. Acknowledgement in writing that Contractor and Applicant have read and understand the project conditions of approval, and will make certain that all project sub-contractors have read and understand them prior to commencing work and that a copy of the project conditions of approval will be posted on site at all times during construction.
4. Approval of plans does not release the developer of the responsibility for the correction of mistakes, errors, or omissions contained therein. If, during the course of construction of the improvements, public interest and safety requires a modification or departure from the Town Specifications or these improvement plans, the Town Engineer shall have full authority to require such modification or departure and to specify the manner in which the same is to be made.
5. Approval of this plan applies only to the grading, excavation, placement, and compaction of natural earth materials. This approval does not confer any rights of entry to either public property or the private property of others and does not constitute approval of any other improvements.
6. Excavated material shall be placed in the fill areas designated or shall be hauled away from the site to be disposed of at approved location(s).
7. It shall be the responsibility of the Permittee or Contractor to identify, locate and protect all underground facilities. Permittee or Contractor shall notify USA (Underground Service Alert) at 1-800-227-2600 a minimum of 48 hours but not more than 14 days prior to commencing all work.
8. All grading shall be performed in such a manner as to comply with the standards established by the Air Quality Management District for airborne particulates.
9. The Contractor shall comply with all local, state and federal laws, codes, rules and regulations governing the work identified on these plans. These shall include, without limitation, safety and health rules and regulations established by or pursuant to the Occupational Safety and Health Act or any other applicable public authority.
 - The General Contractor shall provide qualified supervision on the job site at all times during construction.
11. Horizontal and vertical controls shall be set and certified by a licensed surveyor or registered civil engineer qualified to practice land surveying, for the following items:
 - a. Retaining wall-top of wall elevations and locations (all walls to be permitted separately and applied for at the Town of Los Gatos Building Department).
 - b. Toe and top of cut and fill slopes
12. Prior to issuance of any permit, the applicant's soils engineer shall review the final grading and drainage plans to ensure that designs for foundations, retaining walls, site grading, and site drainage are in accordance with their recommendations and the peer review comments. The applicant's soils engineer's approval shall then be conveyed to the Town either by letter or by signing the plans.

Soils Engineer: GeoForensics, Inc. Dan Dyckman
 Reference Report No. _____, dated _____, 20____
 Letter No. _____, dated _____, 20____, shall be thoroughly complied with. Both the mentioned report and all updates/addendums/letters are hereby appended and made a part of this grading plan.
13. During construction, all excavations and grading shall be inspected by the applicant's soils engineer. The engineer shall be notified at least 48 hours before beginning any grading. The engineer shall be onsite to verify that the actual conditions are as anticipated in the design-level geotechnical report and/or provide appropriate changes to the report recommendations, as necessary. All unobserved and/or unapproved grading shall be removed and replaced under soils engineer observation (the Town Inspector shall be made aware of any required changes prior to work being performed).
14. The results of the construction observation and testing should be documented in an "as-built" letter/report prepared by the applicant's soils engineer and submitted for the Town's review and acceptance before final release of any occupancy permit is granted.
15. All private and public streets accessing Project Site shall be kept open and in a safe, drive-able condition throughout construction. If temporary closure is needed, then formal written notice to the adjacent neighbors and the Town of Los Gatos Public Works Department shall be provided at least one week in advance of closure and no closure shall be granted without the express written approval of the Town. No material or equipment shall be stored in the public or private right-of-way.
16. The contractor shall install and maintain fences, barriers, lights and signs that are necessary to give adequate warning and protection to the public at all times.
17. Owner/Applicant: Sean Raft _____ Phone: _____
18. General Contractor (If available): _____ Phone: _____
19. Grading Contractor (If available): _____ Phone: _____
20.
 - a. Cut: _____ CY Export: _____
 - b. Fill: _____ CY Import: _____
21. Water shall be available on the site at all times during grading operations to properly maintain dust control.
22. This plan does not approve the removal of trees. Appropriate tree removal permits and methods of tree preservation shall be required. Tree Removal Permits are required prior to the approval of all plans.
23. A Town Encroachment Permit is required for any work within the public right-of-way. A State Encroachment Permit is required for any work within State right-of-way (if applicable). The Permittee and/or Contractor shall be responsible coordinating inspection performed by other governmental agencies.
24. No cross lot drainage will be permitted without satisfactory storm water acceptance deed/facilities. All drainage shall be directed to the street or other acceptable drainage facility via a non-erosive method as approved by the Town Engineer.
25. It is the responsibility of contractor and/or owner to make sure that all dirt tracked into the public right-of-way is cleaned up on a daily basis. Mud, silt, concrete and other construction debris SHALL NOT be washed into the Town's storm drains.
26. Good housekeeping practices shall be observed at all times during the course of construction. Superintendence of construction shall be diligently performed by a person or persons authorized to do so at all times during working hours. The storing of goods and/or materials on the sidewalk and/or the street will not be allowed unless a special permit is issued by the Engineering Division. The adjacent public right-of-way shall be kept clear of all job related dirt and debris at the end of the day. Failure to maintain the public right-of-way according to this condition may result in the Town performing the required maintenance at the developer's expense.
27. Grading shall be undertaken in accordance with conditions and requirements of the project Storm Water Pollution Control Plan and/or Storm Water Pollution Prevention Plan, the Town of Los Gatos Storm Water Quality Management Program, National Pollutant Discharge Elimination System (NPDES) and any other permits/requirements issued by the State of California Regional Water Quality Control Board. Plans (including all updates) shall be onsite at all times. No direct storm water discharges from development will be allowed onto Town streets or onto the public storm drain system without treatment by an approved storm water pollution prevention device or other approved methods. Maintenance of private storm water pollution prevention devices shall be the sole responsibility of the owner. Discharges or connection without treatment by an approved and adequately operating storm water pollution prevention device or other approved method shall be considered a violation of the above referenced permit and the Town of Los Gatos Stormwater Ordinance.



VICINITY MAP

TOWN OF LOS GATOS NPDES NOTES

NPDES NOTES

- 1) Sediment from areas disturbed by construction shall be retained on site using structural controls as required by the statewide General Construction Stormwater Permit.
- 2) Stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind as required by the statewide General Construction Stormwater Permit.
- 3) Appropriate best management practices (BMPs) for construction-related materials, wastes, spill or residues shall be implemented to minimize transport from the site to streets, drainage facilities, or adjoining property by wind or runoff as required by the statewide General Construction Stormwater Permit.
- 4) Runoff from equipment and vehicle washing shall be contained at construction sites and must not be discharged to receiving waters or to the local storm drain system.
- 5) All construction contractor and subcontractor personnel are to be made aware of the required best management practices (BMPs) and good housekeeping measures for the project site and any associated construction staging areas.
- 6) At the end of each day of construction activity, all construction debris and waste materials shall be collected and properly disposed in trash or recycle bins.
- 7) Construction sites shall be maintained in such a condition that a storm does not carry waste or pollutants off of the site. Discharges of material other than stormwater (non-stormwater discharges) are prohibited except as authorized by an individual National Pollutant Discharge Elimination System (NPDES) permit or the statewide General Construction Stormwater Permit. Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, sealants, solvents, detergents, glues, lime, pesticides, herbicides, fertilizers, wood preservatives and asbestos fibers, paint flakes or stucco fragments; fuels, oils, lubricants, and hydraulic, radiator or battery fluids; concrete and related cutting or curing residues; floatable wastes; wastes from engine/equipment steam cleaning or chemical degreasing; wastes from street cleaning; and superchlorinated potable water from line flushing and testing. During construction, disposal of such materials should occur in a specified and controlled temporary area on-site physically separated from potential stormwater runoff, with ultimate disposal in accordance with local, state and federal requirements.
- 8) Discharging contaminated groundwater produced by dewatering groundwater that has infiltrated into the construction site is prohibited. Discharging of contaminated soils via Parks and Public Works Department Engineering Division 41 Miles Ave, Los Gatos, CA 95030 408.399.5771 www.losgatosca.gov www.facebook.com/losgatosca

TOWN OF LOS GATOS NPDES NOTES

surface erosion is also prohibited. Discharging non-contaminated groundwater produced by dewatering activities requires a National Pollutant Discharge Elimination System (NPDES) permit from the respective State Regional Water Quality Control Board. Parks and Public Works Department Engineering Division 41 Miles Ave, Los Gatos, CA 95030 408.399.5771 www.losgatosca.gov www.facebook.com/losgatosca

BENCH MARK:
 ASSUMED BENCHMARK, TOP OF MONUMENT BOX AT THE INTERSECTION OF MAYA WAY AND AZTEC RIDGE DRIVE
 ELEV.=1352.56'

AVERAGE SLOPE = 31.0%

BASIS OF BEARINGS:
 THE BEARING OF SOUTH 21° 15'00" EAST, ALONG THE CENTERLINE OF MAYA WAY AS SHOWN ON THE SUBDIVISION MAP OF "MONTEZUMA HILLS, UNIT 1", TRACT # 4271, RECORDED IN BOOK 238 OF MAPS, PAGES 14 AND 15, SANTA CLARA COUNTY RECORDS.

EARTHWORK QUANTITIES

	CUT (CY)	DEPTH (FT)	FILL (CY)	DEPTH (FT)
BACKYARD	1	1	159	6
TOTAL	1		159	
IMPORT			158 C.Y.	

GRADING NOTES

1. MAINTAIN SLOPES OF 5% OR GREATER AWAY FROM THE FOUNDATION ALONG THE ENTIRE PERIMETER FOR A DISTANCE OF 5 FEET MINIMUM WHERE FEASIBLE. ALONG THE SIDE YARD 5 FEET MINIMUM TOWARD THE DRAINAGE SYSTEM, SLPES 2% OR GREATER FOR FLATWORK.
2. FINAL SURFACE DRAINAGE GRADIENT SHALL BE PLANNED AND BUILT SO AS TO DIRECT WATER AWAY FROM THE BUILDINGS AND FOUNDATIONS.
3. SLABS CAST ADJACENT TO FOUNDATIONS SHALL SLOPE AWAY FROM THE FOUNDATIONS.
4. CONNECT DOWNSPOUTS TO THE STROM DRAIN SYSTEM, UNLESS SURFACE DISCHARGE ONTO SPLASH BLOCKS IS APPROVED BY GEOTECHNICAL ENGINEER.

SURFACES

DESCRIPTION	EXISTING (sq.ft.)	PROPOSED (sq.ft.)
BUILDINGS (ROOF)	4500	4500
DRIVEWAY AC OR PCC	546	546
PATIOS/POOL/WALKWAYS	924	2209
IMPERVIOUS SURFACES	5970	7255
LANDSCAPING	34241	32956
TOTAL	40211	40211

INDEX

- 1 TITLE SHEET
- 2 GRADING AND DRAINAGE PLAN
- 3 SECTIONS AND DETAILS
- 4 EROSION CONTROL & CONSTRUCTION MANAGEMENT PLAN
- 5 PRE-GRADING & CURRENT CONDITION TOPO
- 6 BMP

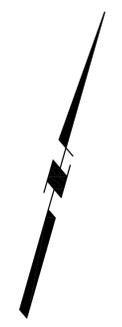
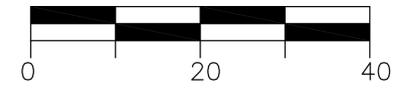
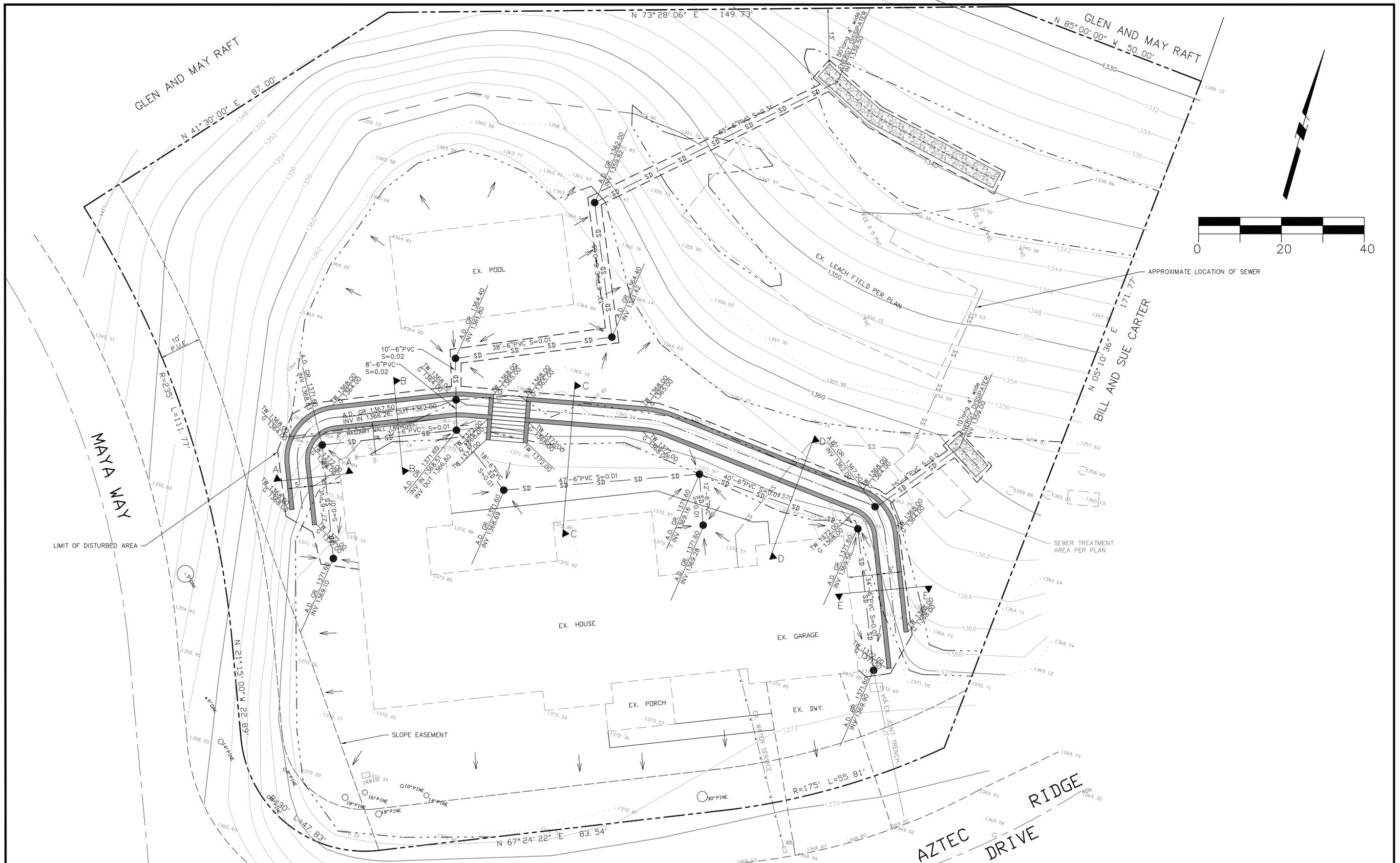
NO.	BY	DATE	REVISION

BY	DATE	DATE: August 2020


WESTFALL ENGINEERS, INC.
 14583 BIG BASIN WAY, SARATOGA, CA 95070 (408)867-0244

GRADING AND DRAINAGE PLAN -TITLE SHEET
RAFT RESIDENCE
 16347 AZTEC RIDGE DRIVE, LOS GATOS

JOB NO.	2020-022
SHEET	1
OF	6



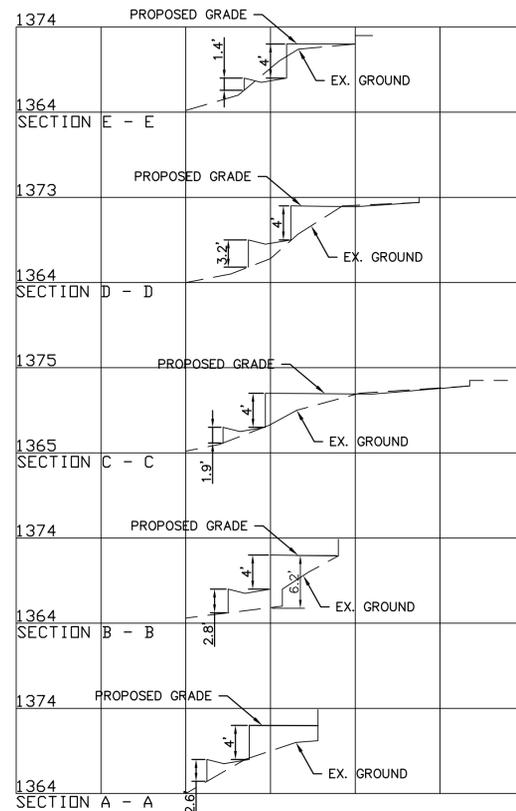
NO.	BY	DATE	REVISION

BY: KAREL CYMBAL, RCE 34534
 CHECKED: JC
 PROJ. ENGR: JC
 DATE: AUGUST 2020
 SCALE: HOR. 1"=10'
 VERT.

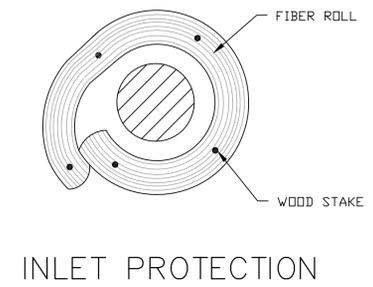
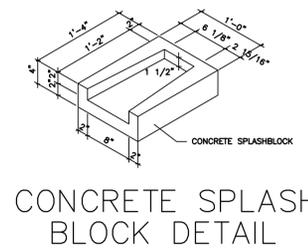
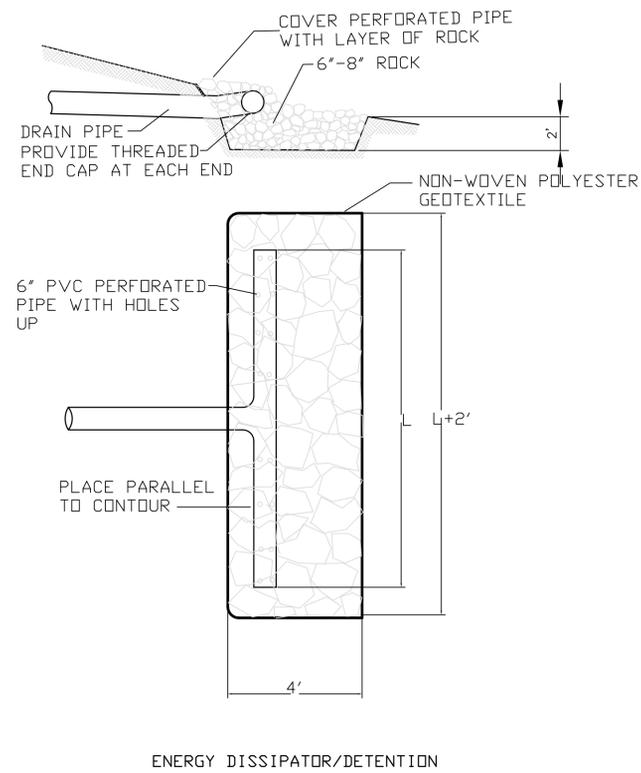

WESTFALL ENGINEERS, INC.
 14583 BIG BASIN WAY, SARATOGA, CA 95070 (408) 867-0244

GRADING AND DRAINAGE PLAN
RAFT RESIDENCE
 16347 AZTEC RIDGE DRIVE, LOS GATOS

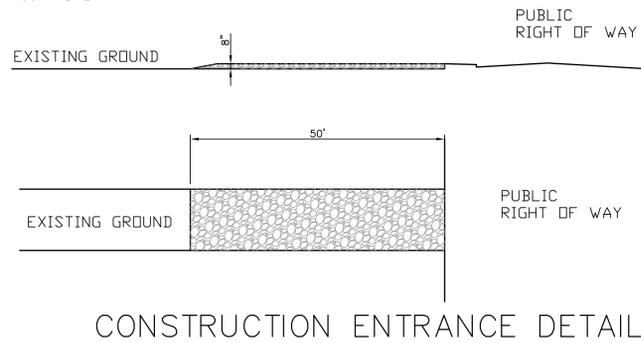
JOB NO. 2020-022
 SHEET 2 OF 6



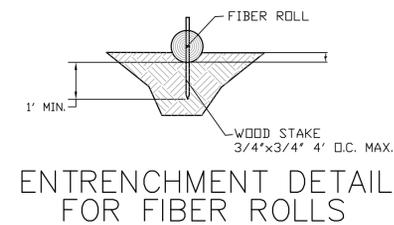
VERTICAL SCALE: 1 inch = 10 feet
HORIZONTAL SCALE: 1 inch = 10 feet



The material for construction of the pad shall be 2 to 3 inch rock. The width of pad shall not be less than the full width of access road. The entrance shall be maintained in a condition that will prevent tracking or flowing of the sediment onto public rights of way. When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public rights of way. All sediment shall be prevented from entering storm drain, by use of sand bags, gravel or sediment barriers.



Place fiber rolls into the key trench and stake on both sides of the roll within 6 feet of each end and then every six inches with 1"x2"x3" stakes. Stakes are typically driven in on alternating sides of the roll. When more than one fiber roll is placed in a row, the rolls should be abutted securely to one another to provide a tight joint, not overlapped.



NO.	BY	DATE	REVISION	BY	DATE

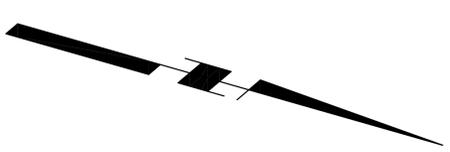
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DESIGNED: JC
CHECKED: KC
PROJ. ENGR: JC
BY: KAREL CYMBAL, RCE 34534
DATE:



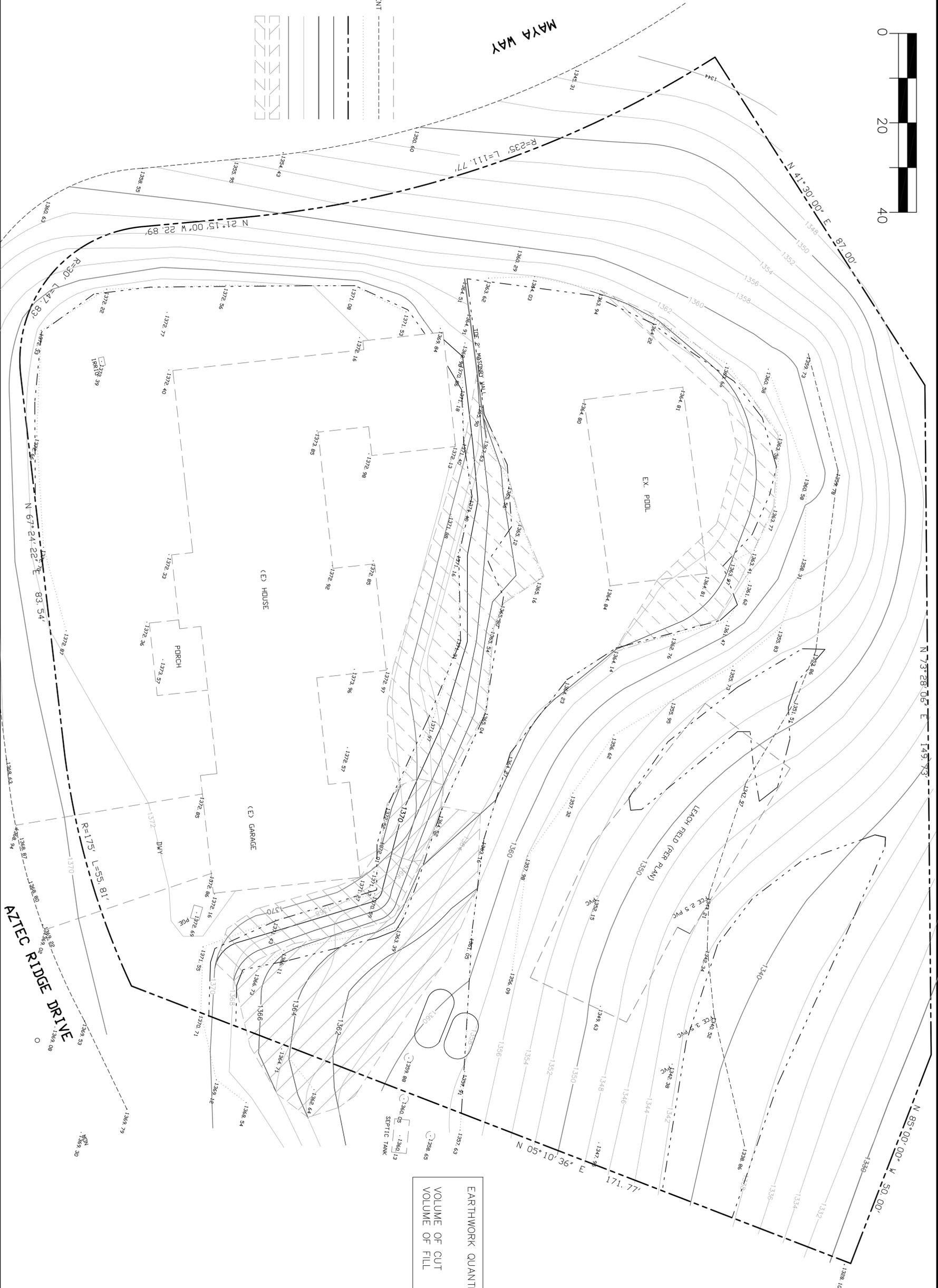
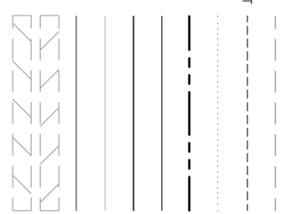
WESTFALL ENGINEERS, INC.
14583 BIG BASIN WAY, SARATOGA, CA 95070 (408) 867-0244

SECTIONS AND DETAILS
RAFT RESIDENCE
16347 AZTEC RIDGE DRIVE, LOS GATOS

JOB NO.
2020-022
SHEET
3
OF
6



- LEGEND**
- EXISTING IMPROVEMENTS
 - EXISTING EDGE OF PAVEMENT
 - EX. GRADE BREAK
 - BOUNDARY
 - EX. CONTOUR MINOR
 - EX. CONTOUR MAJOR
 - ORIGINAL CONTOUR MINOR
 - ORIGINAL CONTOUR MAJOR
 - CUT AREA
 - FILL AREA



EARTHWORK QUANTITIES
 VOLUME OF CUT 146 C.Y.
 VOLUME OF FILL 146 C.Y.

NO.	BY	DATE	REVISION

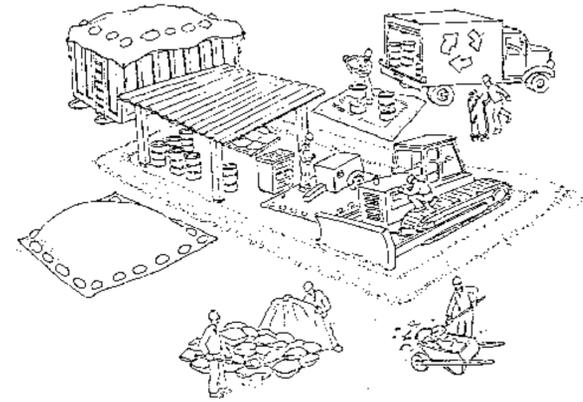
DATE	BY	SCALE	DESIGNED BY	DRAWN BY	PROJECT ENGINEER
AUGUST 2020		HOR. 1"=10'			
		VERT.			

WESTFALL ENGINEERS, INC.
 14583 BIG BASIN WAY, SARATOGA, CA 95070 (408) 864-0244

PRE-GRADING AND CURRENT CONDITION TOPD
 16347 AZTEC RIDGE DRIVE, LOS GATOS

JOB NO.	SHEET	DATE
2020-022	5	
	6	

Pollution Prevention — It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.



Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.

Vehicle and equipment maintenance & cleaning

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Dewatering operations

- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to call your city's storm drain inspector before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.

Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, hay bales, sand bags, or fine gravel dams to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.



- ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
- ✓ If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.

Earthwork & contaminated soils

- ✓ Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use hay bales, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- ✓ Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place hay bales down-slope until soil is secure.

- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call your local fire department for help in determining what testing should be done.
- ✓ Manage disposal of contaminated soil according to Fire Department instructions.

Paving/asphalt work

- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and man-holes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with hay bales, sand bags, or earthen berms.
- ✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.



Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.



Storm drain polluters may be liable for fines of up to \$10,000 per day!