Note: This drawing is approved subject to:

1. ALL GRADING IS SUBJECT TO OBSERVATION BY THE CITY. PERMITTEE OR REPRESENTATIVE SHALL NOTIFY THE CITY OF SAN JOSE DEPARTMENT OF PUBLIC WORKS PROJECT INSPECTOR AT LEAST 48 HOURS BEFORE START OF ANY GRADING.

THE PROJECT INSPECTOR IS STEVE PLETSCH VOICEMAIL NO. (408) 591-0565

- 2. APPROVAL OF THIS PLAN APPLIES ONLY TO (A) THE EXCAVATION, PLACEMENT, AND COMPACTION OF NATURAL EARTH MATERIALS, (B) THE INSTALLATION OF ON-SITE (I.E. PRIVATE PROPERTY) STORM WATER CONVEYANCE AND TREATMENT FACILITIES THAT ARE OUTSIDE OF THE 5-FOOT BUILDING ENVELOPE, AND (C) THE INSTALLATION OF RETAINING STRUCTURES. THIS APPROVAL DOES NOT CONFER ANY RIGHTS OF ENTRY TO EITHER PUBLIC PROPERTY OR THE PRIVATE PROPERTY OF OTHERS. APPROVAL OF THIS PLAN ALSO DOES NOT CONSTITUTE APPROVAL OF ANY IMPROVEMENTS WITH THE EXCEPTION OF THOSE LISTED ABOVE. PROPOSED IMPROVEMENTS, WITH THE EXCEPTION OF THOSE LISTED ABOVE, ARE SUBJECT TO REVIEW AND APPROVAL BY THE RESPONSIBLE AUTHORITIES AND ALL OTHER REQUIRED PERMITS
- 3. UNLESS OTHERWISE NOTED ON THE PLAN, ANY DEPICTION OF A RETAINING STRUCTURE ON THIS PLAN SHALL NOT CONSTITUTE APPROVAL FOR CONSTRUCTION OF THE RETAINING STRUCTURE UNLESS A SEPARATE STRUCTURAL REVIEW. BY THE DEPARTMENT OF PUBLIC WORKS IS COMPLETED AND APPROVED
- 4. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE OR AGENT TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES.
- 5. THE PERMITTEE OR AGENT SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN. SAFE AND USABLE CONDITION.
- 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.
- 7. THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH THE FLOOD HAZARD AREA REGULATIONS AS STATED IN CHAPTER 17.08 OF THE SAN JOSE MUNICIPAL CODE.
- 8. ALL KNOWN WELL LOCATIONS ON THE SITE HAVE BEEN INCLUDED AND SUCH WELLS SHALL BE MAINTAINED OR ABANDONED ACCORDING TO CURRENT REGULATIONS ADMINISTERED BY THE SANTA CLARA VALLEY WATER DISTRICT. CALL (408) 265-2600 EXTENSION 2660 TO ARRANGE FOR DISTRICT OBSERVATION OF ALL WELL ABANDONMENTS.
- 9. IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT—RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE SANTA CLARA COUNTY CORONER IMMEDIATELY.
- 10. THIS PLAN DOES NOT APPROVE THE REMOVAL OF TREES. APPROPRIATE TREE REMOVAL PERMITS AND METHODS OF TREE PRESERVATION SHOULD BE OBTAINED FROM THE CITY'S PLANNING DEPARTMENT AND THE CITY ARBORIST.
- 11. FOR NON-RESIDENTIAL PROJECTS, ANY NON-HAZARDOUS EXPORT RESULTING FROM PROJECT RELATED EXCAVATION OR LAND CLEARING SHALL BE 100% REUSED AND RECYCLED PER CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 5.408.
- 12. CIVIL ENGINEER INFORMATION AND STATEMENTS: A. THE CIVIL ENGINEER FOR THIS PROJECT IS:
 - CHARLES W. DAVIDSON COMPANY, 255 W. JULIAN STREET, SAN JOSE CALIFORNIA 95110-2406
- B. THIS ROUGH GRADING PLAN HAS BEEN PREPARED UNDER THE DIRECTION OF A LICENSED ENGINEER AND DESIGNED BASED ON THE RECOMMENDATIONS OF THE REFERENCED PROJECT GEOTECHNICAL REPORT.
- C. THE STORMWATER CONVEYANCE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE BUILDING AND PLUMBING CODES OR HAS BEEN PROVEN TO BE DESIGNED WITH ADEQUATE CAPACITY THROUGH SIGNED AND SEALED HYDRAULIC CALCULATIONS.
- 13. SOILS ENGINEER INFORMATION AND REQUIREMENTS: A. THE SOIL ENGINEER FOR THIS PROJECT IS:

CORNERSTONE EARTH GROUP, INC. 1259 OAKMEAD PARKWAY, SUNNYVALE, CA 94085

- THE GEOTECHNICAL REPORT FOR THIS PROJECT IS:
- "DESIGN—LEVEL GEOTECHNICAL INVESTIGATION" DATED MAY 18, 2016
- ALL GRADING WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT AND/OR THE PROJECT SOIL
- D. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOIL ENGINEER. THE SOIL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND/OR UNAPPROVED GRADING WORK SHALL BE REMOVED AND REPLACED UNDER OBSERVATION.
- 14. A POST CONSTRUCTION "FINAL" REPORT IS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS FROM A CIVIL ENGINEER RETAINED BY THE OWNER TO OBSERVE THE CONSTRUCTION STATING:
- A. "THAT THE CONSTRUCTION CONFORMS TO THE LINES AND GRADES ON THE APPROVED PLANS:" OR
- B. "THAT ALL SIGNIFICANT CHANGES WERE REVIEWED AND APPROVED IN ADVANCE BY THE DEPARTMENT OF PUBLIC WORKS" AND THE CIVIL ENGINEER SHALL SUBMIT A "RECORD DRAWING" PLAN.
- 15. A POST CONSTRUCTION "FINAL" REPORT IS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS FROM A SOIL ENGINEER. AND ALSO FROM AN ENGINEERING GEOLOGIST IF THE PROJECT IS IN A GEOLOGIC HAZARD ZONE. STATING:
- A. "THAT THE ANTICIPATED CONDITIONS AND MATERIALS AND ACTUAL SITE CONDITIONS AND MATERIALS WERE COMPATIBLE," AND SUPPLY SUPPORTING DATA; OR
- B. "THAT THE DESIGN WAS MODIFIED TO MEET THE NEW CONDITIONS AND WAS REVIEWED AND APPROVED IN ADVANCE BY THE DEPARTMENT OF PUBLIC WORKS:" AND PROVIDE SUPPORTING DATA FOR THESE STATEMENTS.
- 16. ACCORDING TO THE CITY'S WASTE WATER ORDINANCE, THE USE OF POTABLE (PIPED OR HYDRANT) WATER FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED.

RECLAIMED WATER IS AVAILABLE AT MULTIPLE LOCATIONS ACROSS THE CITY. TO CERTIFY FOR A RECYCLED WATER METER, PLEASE CALL LYLE FROHMAN AT (408)794-6805.

AN APPLICATION FOR AN EXCEPTION PERMIT TO APPROVE USE OF HYDRANT WATER CAN BE CONSIDERED IN THE PW DEVELOPMENT SERVICES OFFICE. FAX-BACK SERVICE IS PROVIDED FOR THIS PERMIT APPLICATION -- CONTACT (408) 535-7802.

- 17. GRADING WILL NOT BE ALLOWED BETWEEN OCTOBER 1ST AND APRIL 30TH OF ANY YEAR WITHOUT EROSION CONTROL PLANS AND MEASURES APPROVED BY THE DIRECTOR OF PUBLIC WORKS. STORMWATER POLLUTION PREVENTION MEASURES IN ACCORDANCE WITH CITY SPECIFICATIONS AND WITH THE DOCUMENT "CLEAN BAY BLUEPRINT" SHALL BE IMPLEMENTED THROUGHOUT THE YEAR TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
- 18. A POST CONSTRUCTION "AS-BUILT" PLAN IS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS FROM A CIVIL OR SOILS ENGINEER RETAINED BY THE OWNER TO PROVIDE THE FINAL HORIZONTAL AND VERTICAL LOCATIONS OF THE IMPROVEMENTS APPROVED WITH THIS PLAN SUCH AS SUBDRAINS, ON-SITE STORM WATER CONVEYANCE AND TREATMENT SYSTEMS, AND ON-SITE RETAINING STRUCTURES.

BENCHMARK

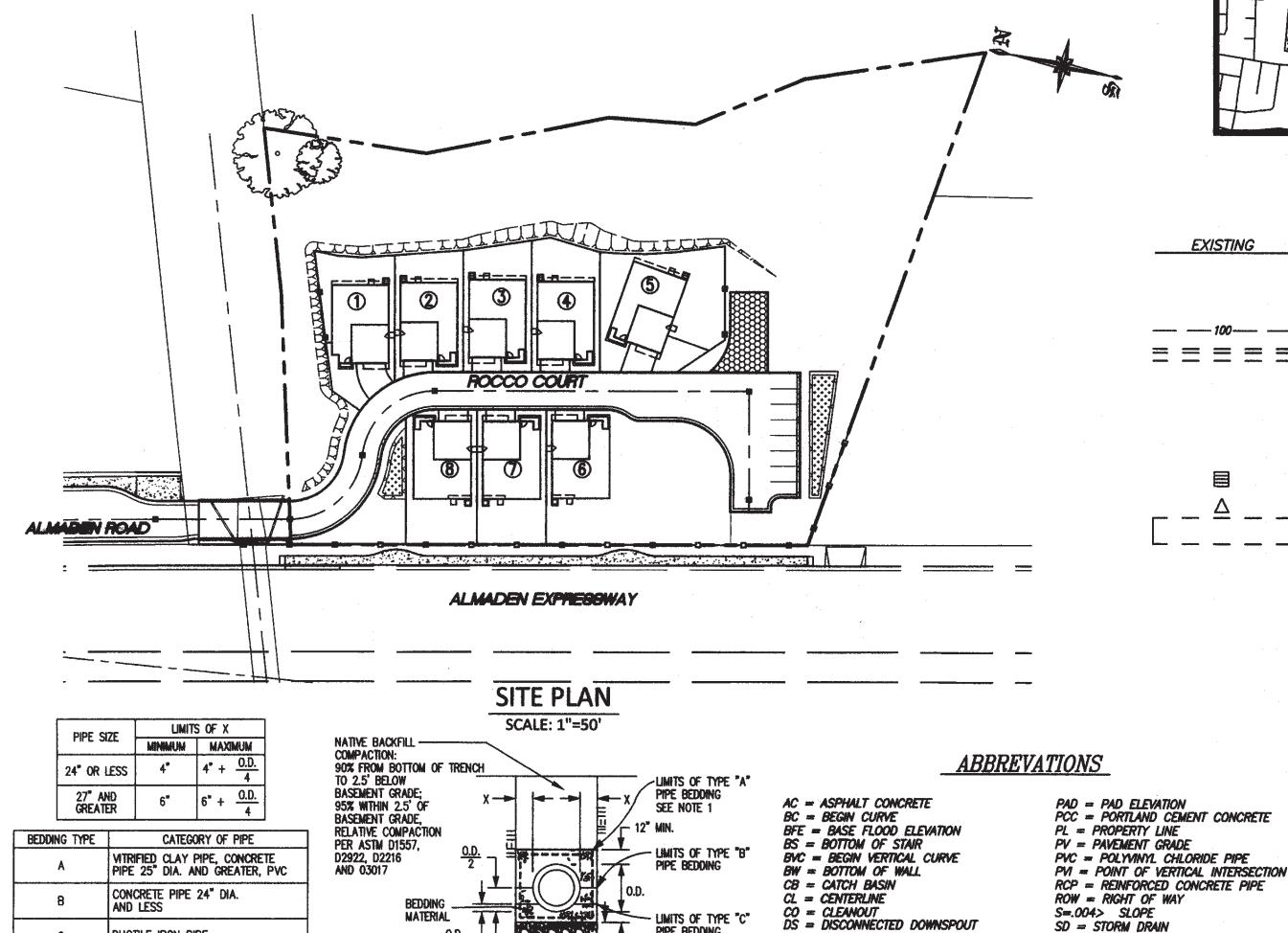
SCVWD'S BRASS DISK; ON TOP OF CONCRETE BASE OF NORTHEASTERLY LEG; OF MOST EASTERLY OF THREE PG&E TOWERS: AT THE SOUTHWESTERLY CORNER OF THE INTERSECTION OF ALMADEN EXPRESSWAY AND GOLF CREEK. ELEV. 216.95', NAVD88.

SOILS ENGINEER CORNERSTONE EARTH GROUP 1259 OAKMEAD PARKWAY SUNNYVALE, CA 94085 (408) 245-4600



ROUGH GRADING AND DRAINAGE PLAN SONTERRA TRACT NO. 10383

SAN JOSE, CA



BEDDING MATERIAL SHALL BE CLASS I

(CRUSHED STONE) IN ACCORDANCE WITH THE

1992 CITY STANDARD SPECIFICATION 1301-2.

PIPE BEDDING DETAIL

FOR ALL STORM PIPE

1) GEOTEXTILE TO BE PLACED BETWEEN NATIVE BACKFILL AND TYPE 'A' BEDDING IF THE NATIVE SOIL SURROUNDING THE TRENCH IS FOUND TO BE HEAVY CLAY. FOR ALL OTHER NATIVE SOIL CONDITIONS THE GEOTEXTILE SHALL BE WRAPPED AROUND THE ENTIRE TRENCH AS SHOWN. 2) GEOTEXTILE AND CLASS I. BEDDING STABILIZATION MATERIAL SHALL BE USED FOR UNSUITABLE SOIL CONDITIONS ONLY OR AS DIRECTED BY CITY ENGINEER/INSPECTOR.

DUCTILE IRON PIPE

NOTES & CALCULATIONS ASSUMPTIONS:

FOR HIS/HER OWN USE.

1. EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE

CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE QUANTITIES

EARTHWORK QUANTITIES SHOWN DO NOT INCLUDE THE STOCKPILE.

2. THE PRIVATE STREET SECTION WAS ASSUMED TO BE 12".

3. PAD TO FINISH FLOOR DELTA WAS ASSUMED TO BE 12".

5. 2' OVER EXCAVATION BASED ON PAD ELEVATION.

EARTHWORK QUANTITIES: 1,930 CY EXTRA FILL FOR SUB-EXCAVATION 235 CY 20% SHRINKAGE FACTOR (ASSUMED) TOTAL FILL: 2,165 CY TOTAL CUT: 330 CY NET IMPORT = FILL - CUT1,835 CY NET IMPORT = 2.165 CY - 330 CY (IN-PLACE YARDS) VCP = VITRIFIED CLAY PIPE WM = WATER METER WV = WATER VALVE

EC = END CURVE

EX. = EXISTING

ELEV. = ELEVATION

FH = FIRE HYDRANT

GB = GRADE BREAK

HP = HIGH POINT

INV = INVERT

APPROVED FOR GRADING

AND DRAINAGE ONLY

DEPARTMENT OF PUBLIC WORKS

CITY OF SAN JOSE, CALIFORNIA

16-127213GR Permit Number

LP = LOW POINT

FL = FLOW LINE

F/C = FACE OF CURB

EVC = END VERTICAL CURVE

GFF = GARAGE FINISH FLOOR

FF = FINISHED FLOOR ELEVATION

4/19/2017

4/19/2017 Date

Expiration Date

SHEET INDEX **COVER SHEET** PAD GRADING PLAN **GRADING PLAN** DRAINAGE PLAN **SECTIONS & DETAILS** STORMWATER CONTROL PLAN STORM WATER MAINTENANCE & DETAILS **EROSION CONTROL PLAN** 10-11 **RETAINING WALL PLAN**

RETAINING WALL INSPECTION CONTRACTOR OR PERMITEE SHALL NOTIFY THE CITY STRUCTURAL **INSPECTION AT LEAST 48 HOURS PRIOR** TO CONSTRUCTION OF THE RETAINING WALLS. CONTACT LES PAGE AT VOICE MAIL NO. (408) 858-4940 AND JEFF BATELLE AT (408) 975-7424

SDCO = STORM DRAIN CLEAN OUT SDJB = STORM DRAIN JUNCTION BOX

SDMH = STORM DRAIN MANHOLE

SSMH = SANITARY SEWER MANHOLE

SS = SANITARY SEWER

STA = STATION

TC = TOP OF CURB

TS = TOP OF STAIR

TW = TOP OF WALL

TF = TOP OF FENCE

GEOTECHNICAL ENGINEER OF RECORD THIS PLAN HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE WOODESAND RURPOSE OF THE GEOTECHNICAL REPORT. CORNERSTONE EARTH GREEP No. GE2582 PREPARED BY (COMPANY NAME) EXPIRES 12/81/180A FOF REPORT

LOCATION MAF

LEGEND

TC 160.00

X160.00

160.00

S=.004>

DESCRIPTION PROPERTY LINE CENTERLINE CONTOUR CONCRETE CURB & GUTTER DEPRESSED VERTICAL CURB GOOD NEIGHBOR FENCE

LANDSCAPE AREA DRAIN (SEE DETAIL ON SH 5) BUBBLE UP (SEE DETAIL ON SH 5) FIELD INLET (CHRISTY V12 OR EQUAL) HOODED INLET

EMERGENCY OVERLAND RELEASE SOUND WOOD FENCE

2' MAX RETAINING WALL FINISHED FLOOR ELEVATION PAD ELEVATION TOP OF CURB ELEVATION

FLOW LINE ELEVATION PAVEMENT ELEVATION EXISTING GRADE PROPOSED GRADE

SLOPE PROPOSED TREES TREES TO REMAIN

STORM MANHOLE STORM DRAIN CLEAN OUT (SEE DETAIL ON SH 5 STORM PIPE

SECTION NO. PAGE NUMBER DOWNSPOUT EVERGREEN TREE

KKKKK TURF BLOCK AIR CONDITION (AC) UNITS

RIPARIAN PAD OUTLINE

BIOTREATMENT SOIL REQUIREMENTS PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

EDENE

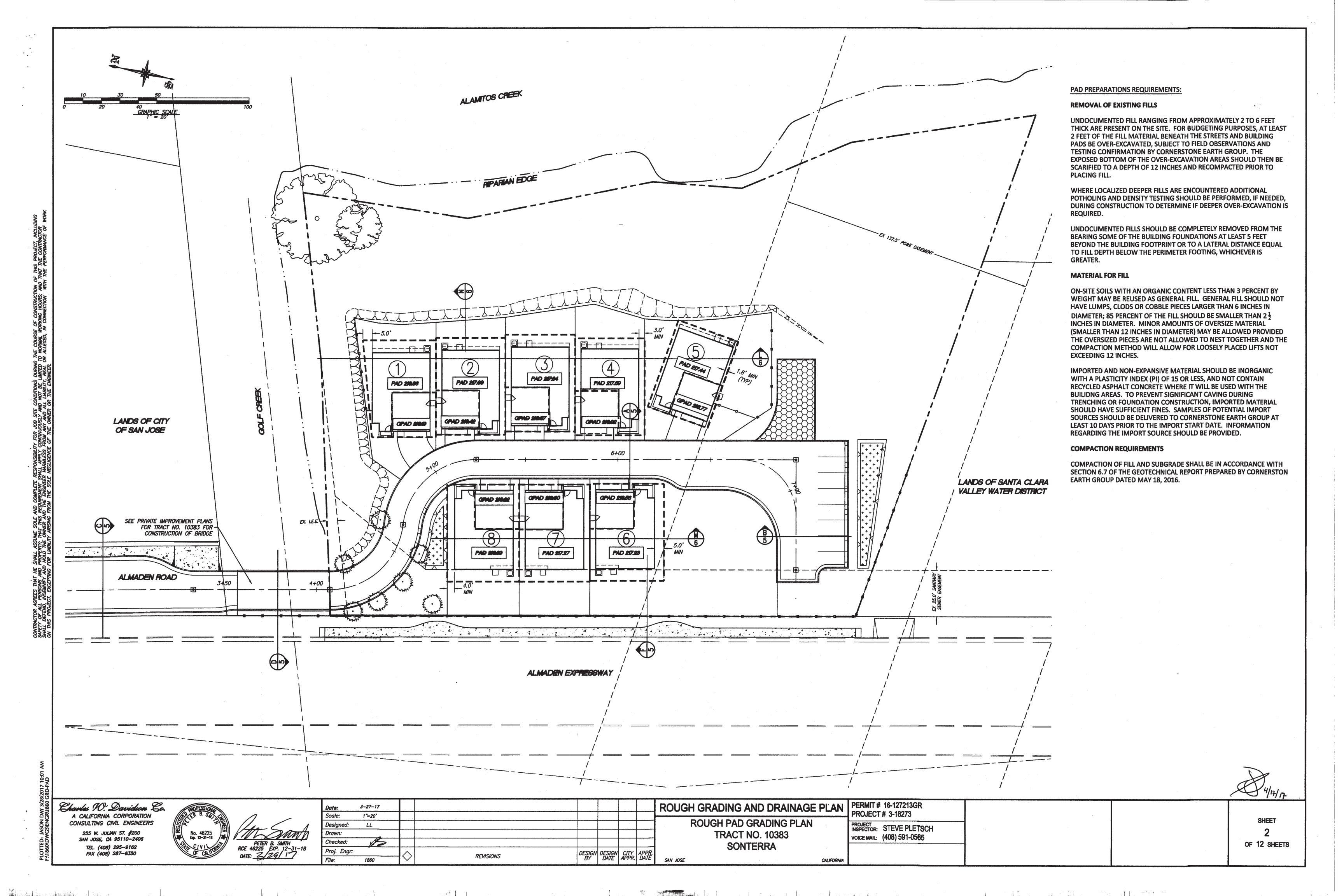
SHEET OF 12 SHEETS

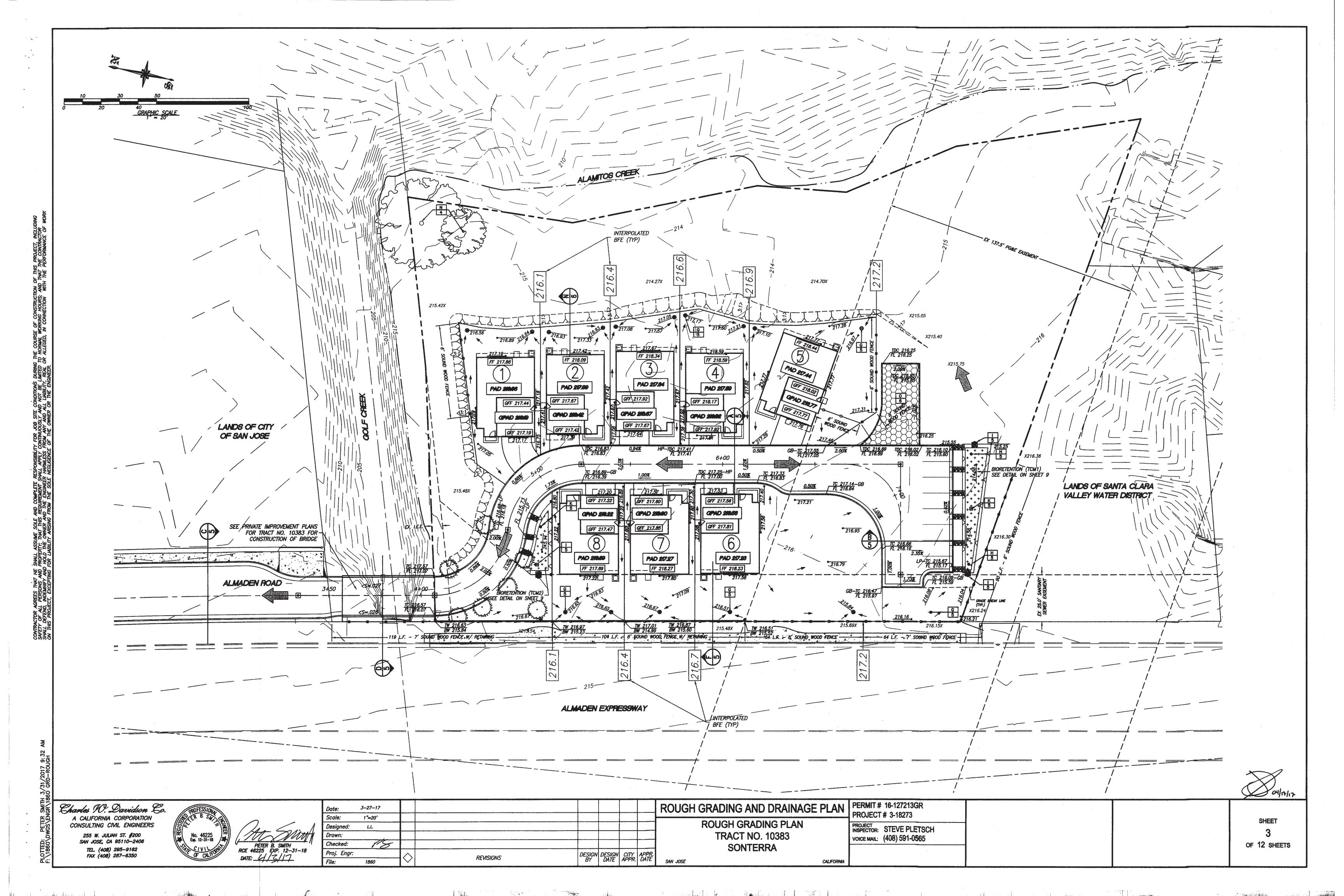
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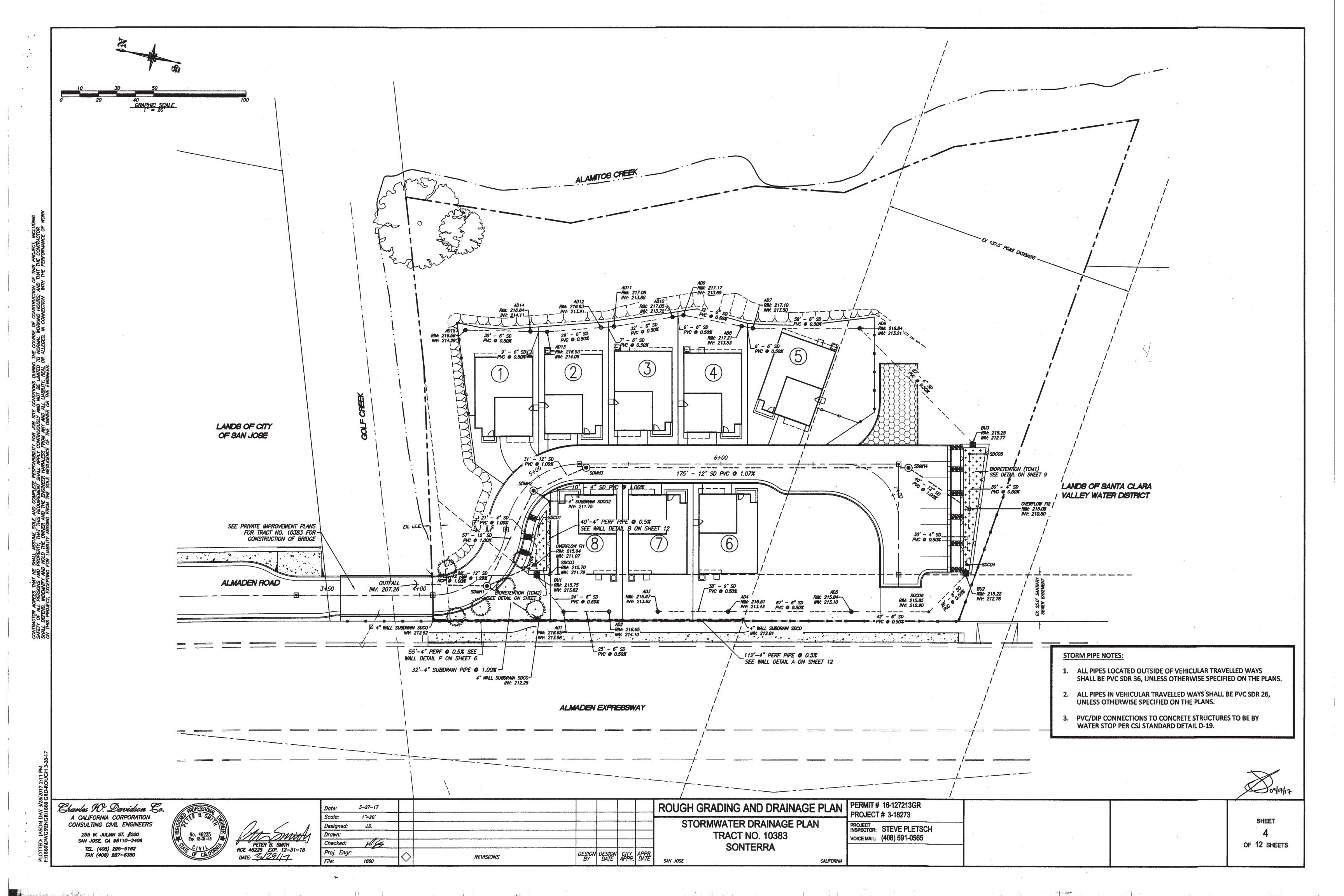
TRACT

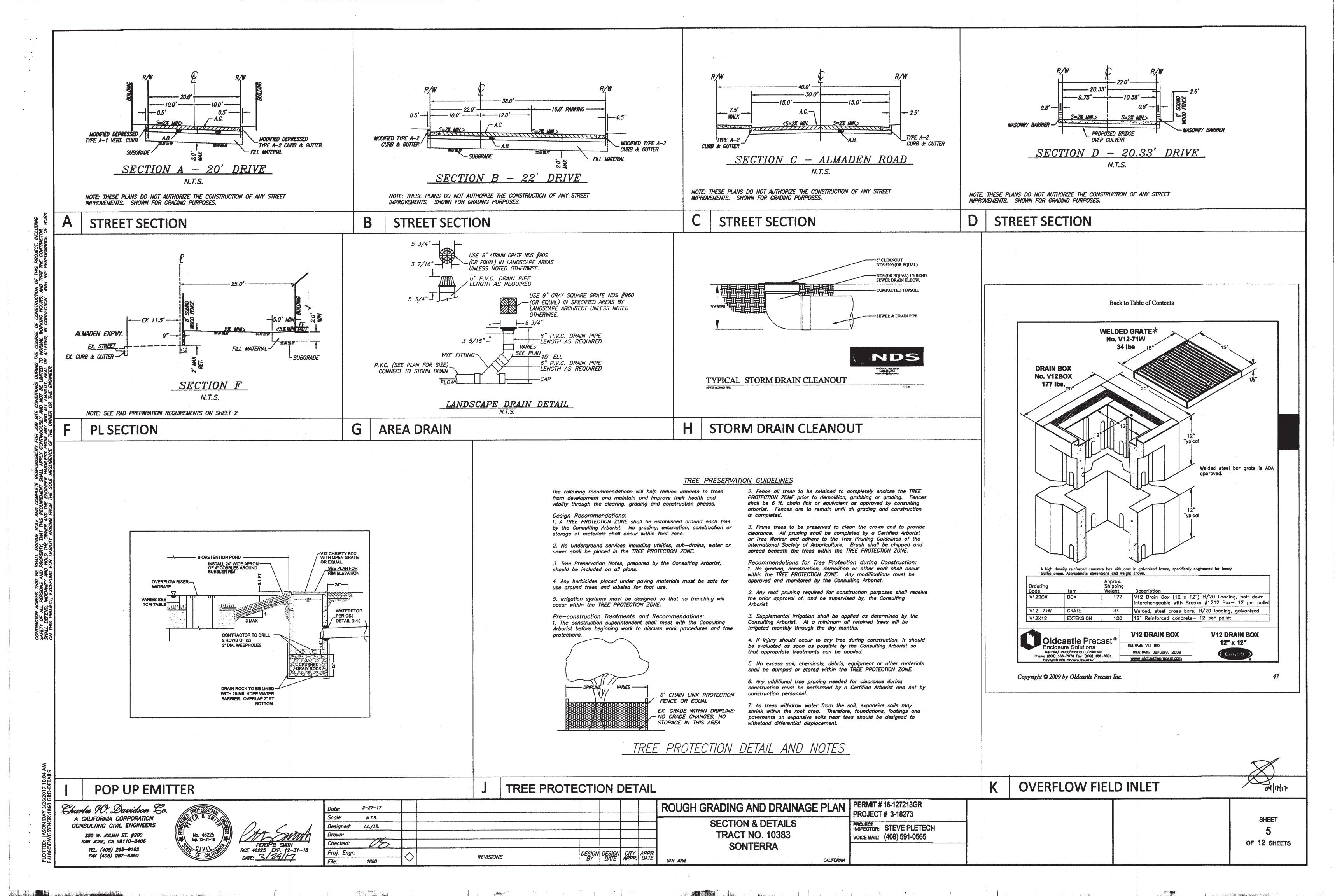
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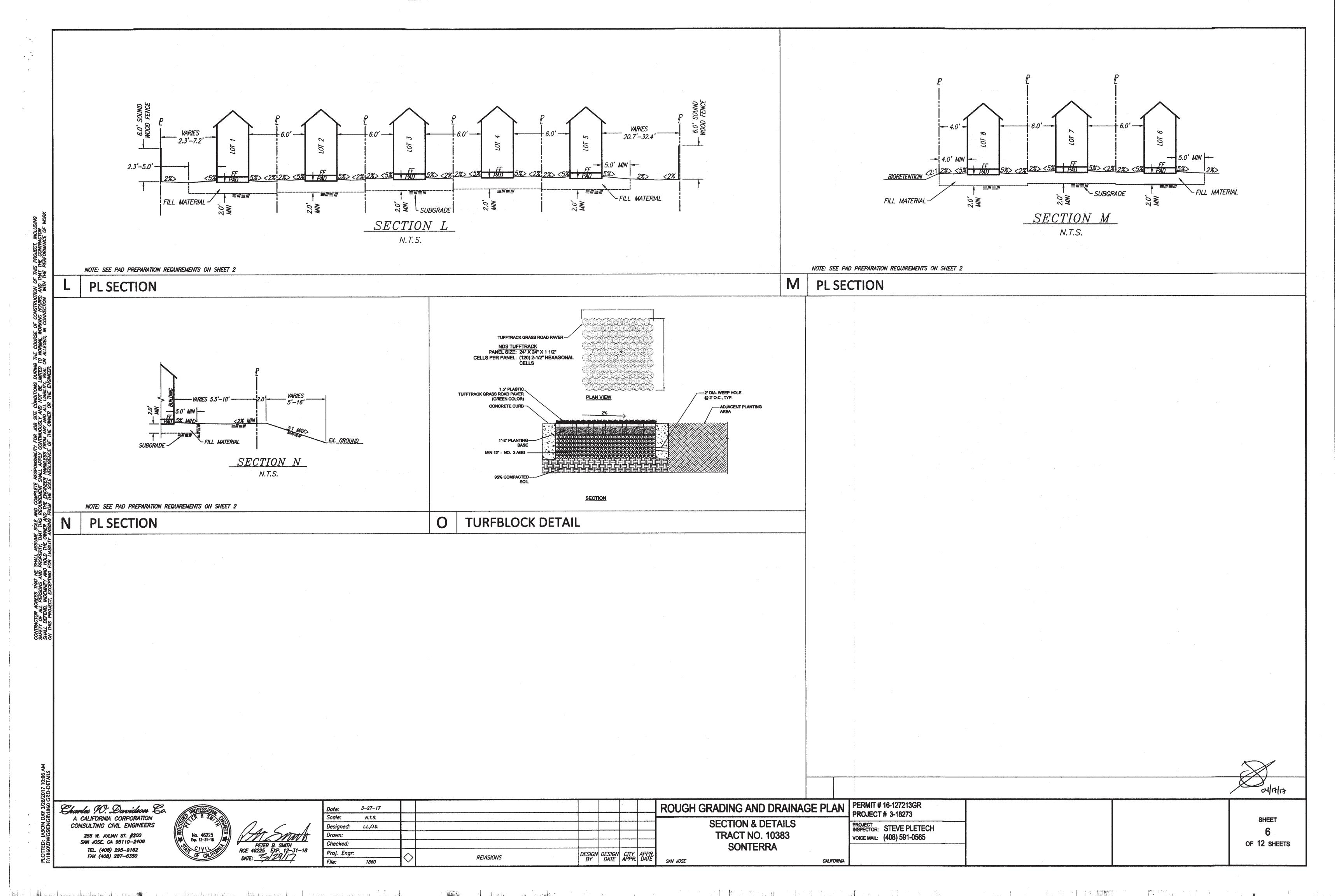
PW PROJECT # 3-18273











GROUND WATER DEPTH: 0-10 FEET BELOW THE GROUND SURFACE.

NAME OF RECEIVING WATER BODY: ALMAITOS CREEK

100 YEAR FLOOD ELEVATION: AE 217' TO 218'

POLLUTANTS AND POLLUTANT SOURCE AREAS: SEDIMENT: ROADS, PARKING LOTS AND ROOFS

THE MAIN COMPONENT OF TOTAL SUSPENDED SOLIDS (TSS), AND IS DETRIMENTAL TO AQUATIC LIFE. THEY ALSO TRANSPORT POLLUTANTS SUCH AS TRACE METAL, NUTRIENTS, AND HYDROCARBONS THAT ATTACH TO EACH PARTICLE.

ORGANIC COMPOUNDS: AUTOMOTIVE FLUIDS, PESTICIDES AND FERTILIZERS ORGANIC COMPOUNDS OFTEN ATTACH TO SOIL PARTICLES

NUTRIENTS: ORGANIC LITTER, FERTILIZERS, FOOD WASTE, SEWAGE AND SEDIMENT. NUTRIENTS INCLUDE NITROGEN, PHOSPHORUS AND OTHER ORGANIC COMPOUNDS. EXCESS NUTRIENTS IMPACT CREEK HEALTH AND IMPAIR USE OF WATER IN WATER SUPPLY SOURCES BY PROMOTING EXCESSIVE GROWTH OF ALGAE OR VEGETATION.

METALS: MOTOR VEHICLES, ROOFING AND CONSTRUCTION MATERIALS AND CHEMICALS. TRACE METALS SUCH AS COPPER, LEAD, CADMIUM, CHROMIUM, NICKEL AND ZINC CAN BE TOXIC TO AQUATIC ORGANISMS AND, IN ACCUMULATED QUANTITIES, CAN CONTAMINATE DRINKING WATER SUPPLIES.

BACTERIA & VIRUSES: ANIMAL EXCREMENT (AREAS WHERE PETS ARE OFTEN WALKED), SANITARY OVERFLOW, AND TRASH HANDLING AREAS (DUMPSTERS). BACTERIA & VIRUSES MAY POSE PUBLIC HEALTH AND SAFETY CONCERNS IF THEY ARE PRESENT IN DRINKING WATER SOURCES.

OIL & GREASE: MOTOR VEHICLES, FOOD SERVICE ESTABLISHMENTS AND FUELING

OIL & GREASE ACT AS CARRIERS FOR HEAVY METALS AND CONTAIN HYDROCARBON COMPROUNDS, WHICH EVEN AT LOW CONCENTRATIONS MAY BE TOXIC TO AQUATIC

STORMWATER TREATMENT SUMMARY

THE INFILL SITE WILL BE DESIGNED TO MINIMIZE THE DIRECTLY CONNECTED IMPERVIOUS AREA (DCIA). THE DOWNSPOUTS WILL NOT BE DIRECTLY CONNECTED TO THE STORM SEWER SYSTEM AND WILL BE DIRECTED INTO THE LANDSCAPE AREAS. AS PER THE 50% RULE THE "INTERVENING PERVIOUS AREAS RECEIVING RUNOFF (P) MUST BE AT LEAST ONE HALF THE SIZE OF IMPERVIOUS SURFACE AREAS GENERATING RUNOFF (I). $P > OR = \frac{1}{2}I$."

THE SITE IS IN THE HIM INCLUSION AREA. HOWEVER THE SITE CREATES AND/OR REPLACES <1AC OF IMPERVIOUS AREA, THEREFORE HMP IS NOT REQUIRED.

STANDARD LID IS INFEASIBLE FOR THIS SITE DUE TO THE AMOUNT OF LANDSCAPE VS. IMPERVIOUS AREA & THE SOIL TYPE PER CITY REQUIREMENTS.

THE SOILS HAVE A SATURATION HYDRAULIC CONDUCTIVITY (KSAT) THAT WILL NOT ALLOW INFILTRATION OF 80% OF THE ANNUAL RUNOFF, THEREFORE INFILTRATION IS INFEASIBLE.

THE POTENTIAL RAINWATER CAPTURE AREA WAS CALCULATED.

IT WAS DETERMINED THAT THE LANDSCAPE AREA IS LESS THAN 2.5 TIMES THE SIZE OF THE POTENTIAL RAINWATER CAPTURE AREA.

IT WAS DETERMINED THAT NUMBER OF DWELLING UNITS PER IMPERVIOUS ACRE WAS LESS THAN

THEREFORE RAINWATER HARVESTING IS INFEASIBLE.

THEREFORE, THE SITE WILL USE BIO-RETENTION TO TREAT IMPERVIOUS AREAS. A RANGE OF TREATMENT MEASURES MAY BE UTILIZED FOR THIS INFILL SITE, INCLUDING BUT NOT LIMITED TO BIO-RETENTION, AND SELF TREATING AREAS. THE CREEK AREA WILL BE LEFT AS RIPARIAN AREA AND PLANTED WITH NATIVE PLANTS.

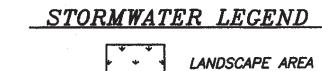
THIS WILL MAXIMIZE THE OPPORTUNITY FOR THE RUNOFF TO BE CLEANED BEFORE IT ENTERS THE COLLECTION SYSTEM.

THESE MEASURES WILL BE MAINTAINED BY A HOME OWNERS ASSOCIATION OR EQUAL.

"6082 ALMADEN EXPRESSWAY SAN JOSE, CALIFORNIA FLOOD IMPACT STUDY UPDATE", FINAL REPORT, JANUARY 22, 2015 BY SCHAAF & WHEELER MITIGATION MEASURES

THE APPLICANT SHALL PLACE ALL STRUCTURAL PADS SO THAT THE LOWEST ADJACENT GRADE TO EACH HOUSING STRUCTURE IS ABOVE THE BASE FLOOD ELEVATION. THE HIGHEST BASE FLOOD ELEVATION ACROSS THE PROJECT SITE IS APPROXIMATELY 217.1 FEET NAVD

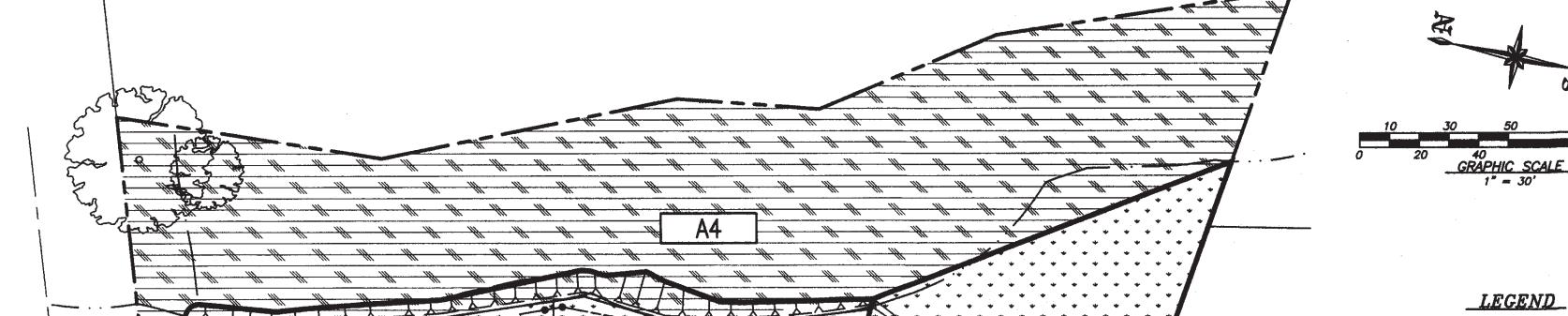
(TO CONVERT BASE FLOOD ELEVATIONS PUBLISHED IN NGVD29 TO NAVD, ADD 2.78 FEET.)

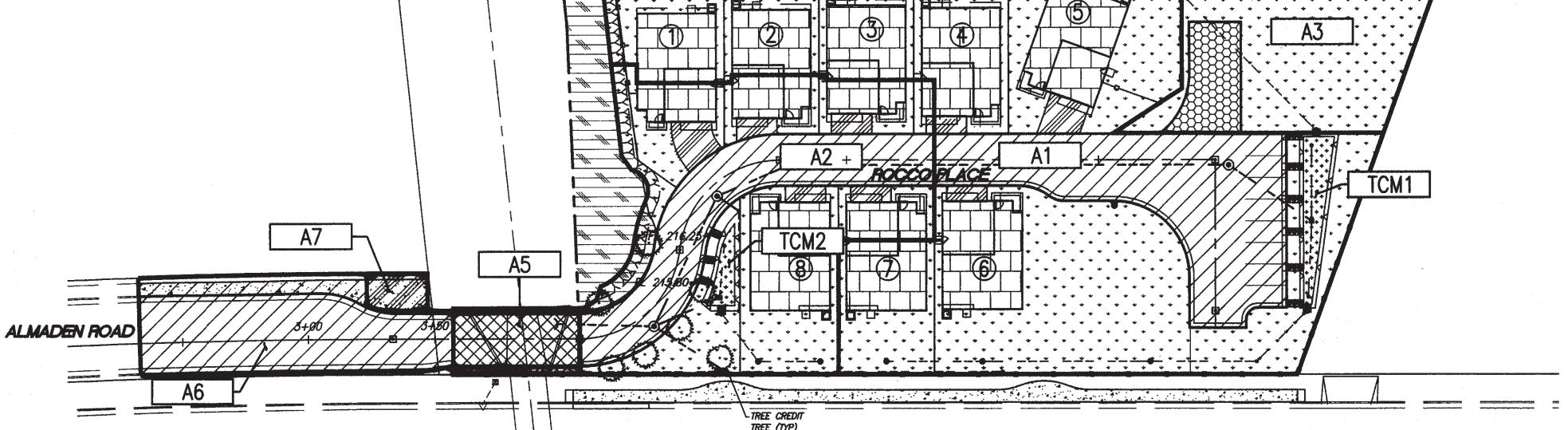


ROOF AREA

PRIVATE DRIVE

BIORETENTION





ALMADEN EXPRESSWAY

Treatment Control Measure (TCM) Summary Table

İ			L		Areas							
AREA	Description	Total	Pe	ervious Area ((P)		Impervious Area (I)		(P)	(1)	TCM	Type of mitigation
ID	THEORIE MERCE IN MARKET IN THE CONTROL OF THE CONTR	Area	Perm. Paver	Turf Block	Landscape	Rooftop	Parking/Pvt. Drive	Hardscape	Pervious	Impervious	ID	that will be used
	and the state of t	(SF)	Area (SF)	Area (SF)	Area (SF)	Area (SF)	Area (SF)	Area (SF)	(SF)	(SF)		
A1	Lot 1-8, Private Drive, Landscape	29,841	0	0	16,338	7,502	5,568	433	16,338	13,503	1	Bioretention
		20,041			10,000	7,002	0,000	-100	10,000	10,000		
A2	Lot1-3 & 7-8, Private Drive, & Landscape	12,619	0	0	4,566	3,539	3,800	714	4,566	8,053	2	Bioretention
А3	Landscape	9,045	0	1,172	7,873	0	0	0	9,045	0	-	Self-Treating
A4	Riparian		-	**	_	-	-	-		-	•	Self-Treating (Area not Disturbed)
A5	Bridge	1,300	0	0	0	0	1,300	0	0	1,300	-	Tree Crecit***
A6	Public Sidewalk and Street	-	-		-	•		-	-	-	-	Maintenance
A7	Public Driveway	351	0	0	0	0	351	0	0	351	- :	Roadway Project**
111	Totals	53,156	0	1,172	28,777	11,041	11,019	1,147	29,949	23,207		

* Bay Area Stormwater Management Agencies Association (BASMAA); Start at the Source, Design Guidance Manual For Stormwater Quality Protection (1999 Ed.), pg. 34. Per Chapter 2 (Section 2.3.1) of Stormwater Control Handbook, Roadway Projects that add new sidewalk along an existing roadway are exempt from the C3 requirements Per CSJ Policy Number 6-29 Tree Credits will be allowed. For each new Evergreen Tree 200 sqft of tree credit may be given

Flow-Based Treatment Measures - Bioretention

Highlighted cells indicate Input value cells

		Dra	ainage A	re a			E	Bioretention Sizi	ng .
Area ID	TCM	Description	Total	Total	Pervious	Impervious	Sizing Factor	Surface Area Required	Surface Area Provided
er monerne a nem den samblekende ander	in agreed party and pageons, which	agas para in transfere e anta transference escala e in transference e inclusiva.	Ac	R	sf	sf	4% *	sf	sf
A1	1	Lots 1-8, Private Drive, Parking, Landscape	0.69	29,841	16,338	13,503	0.040	540	584
A2	2	Lots 1-3,6-7, Private Drive, Landscape	0.29	12,619	4,566	8,053	0.040	322	364

Area	TCM					I	Treatmen
ID	ID	Type	Total	Total	Pervious	Impervious	Provid
		Total control of the second of	Ac	ft	sf	sf	(sf)
A5		Evergreen Tree Credit*	0.03	1,300	l n	1,300	1,40

CALIFORNIA

Nitte house Home | Company Info | Products | Literature & Specifications | | Locate A Dealer | News & New Products | Associations & Links | Contact D If rain is not drained away from the wall of a building, the standing water can damage the foundation or cause damp basement walls. Nitterhouse Slash Blocks divert water away fron This is our newest design in durable and attractive splash blocks. Each is machine Dimensions: 12" x 24" x 2-7/8" Colors Available: Standard Gray Weight: +9 Lbs Company Info | Products | Literature & Specifications Locate A Dealer | News & New Products | Associations & Links | Contact Lig 959 Claveland Avenue, Chambersburg, PA 17201 717-267-4500 Fax: 717-267-4527 Email: masonry@nitterhouse.com

1. SPLASH BLOCKS SHALL BE LOCATED UNDER ALL BUILDING DOWNSPOUTS. 2. SWALE SHALL RUN FROM SPLASH BLOCK AWAY FROM BUILDING TO AREA DRAIN. MIN. SWALE SLOPE 0.5%, TYPICAL SWALE SLOPE 1%. LANDSCAPE PROPERTY LINE ---- SWALE @ 1% TYP. PLAN VIEW

CENTERLINE

-a-a-a-a-a-a-a-a-a SOUND WOOD FENCE

TC 160.00

CONCRETE CURB & GUTTER

FINISHED FLOOR ELEVATION

TOP OF CURB ELEVATION

FLOW LINE ELEVATION

V-12 CHRISTY DRAIN (OR EQUAL)

DEPRESSED CURB

VERTICAL CURB

PAD ELEVATION

GRADE BREAK

ROOF AREA STREET AREA PAVER AREA

TURF BLOCK

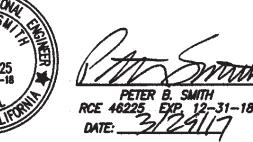
LANDSCAPE AREA

SPLASH BLOCK DETAIL
N.T.S.

Charles W. Davidson Co. A CALIFORNIA CORPORATION CONSULTING CIVIL ENGINEERS 255 W. JULIAN ST. #200 SAN JOSE, CA 95110-2406 TEL. (408) 295-9162

FAX (408) 287-6350





Date:	3-27-17							ROUGH
Scale:	1 "=30"							
Designed:	LL/J.D.							S ⁻
Drawn:								
Checked:	119							
Proj. Engr:				DESIGN	DESIGN DATE	CITY	APPR.	
File:	1860]~	REVISIONS	BY	DATE	APPR.	DATE	SAN JOSE

ROUGH GRADING AND DRAINAGE PLAN STORMWATER CONTROL PLAN **TRACT NO. 10383** SONTERRA

PROJECT	# 3-102/3	
	STEVE PLETSCH (408) 591-0565	

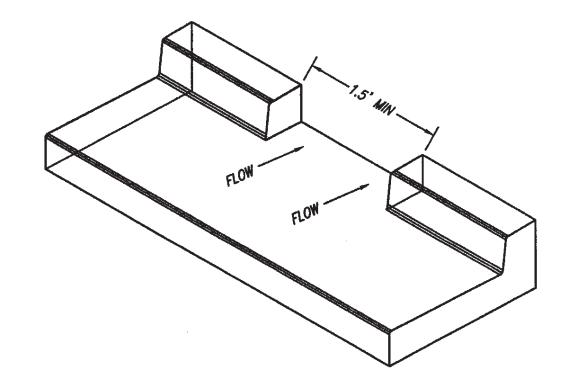
PERMIT # 16-127213GR

SPLASH BLOCK IMAGE

SHEET OF 12 SHEETS TYPICAL CROSS SECTION OF BIORETENTION AREA

PER FIGURE 6-2, C.3 STORMWATER HANDBOOK

BIO-RETENTION LAYOUT DETAILS
(SEE SPECIFIC DETAILS ON SHEET 9)



CURB OPENING N.T.S.

BIOTREATMENT SOIL REQUIREMENTS

PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

DESIGN DESIGN CITY APPR. DATE

Bioretention Area Maintenance Plan for Sonterra

Sonterra

November 18, 2016

Project Address and Cross Streets 6082 ALMADEN EXPRESSWAY

Assessor's Parcel No.: TRACT NO. 10383

Property Owner: EDENBRIDGE HOMES Phone No.: (669) 231-4240

Designated Contact: _____ Phone No.: ____ Phone No.: _____ Phone Phone Phone No.: _____ Phone Ph

The property contains 2 bioretention area(s), located as described below and as shown in the attached site plan¹. Bioretention Area No. 1 is located at SOUTHERLY SIDE OF PROJECT.

Bioretention Area No. 2 is located at NOUTHERLY SIDE OF LOT 8.

Routine Maintenance Activities

The principal maintenance objective is to prevent sediment buildup and clogging, which reduces pollutant removal efficiency and may lead to bioretention area failure. Routine maintenance activities, and the frequency at which they will be conducted, are shown in

II. Use of Pesticides

Do not use pesticides or other chemical applications to treat diseased plants, control weeds or removed unwanted growth. Employ non-chemical controls (biological, physical and cultural controls) to treat a pest problem. Prune plants properly and at the appropriate time of year. Provide adequate irrigation for landscape plants. Do not over water.

III. Vector Control

Standing water shall not remain in the treatment measures for more than five days, to prevent mosquito generation. Should any mosquito issues arise, contact the Santa Clara Valley Vector Control District (District). Mosquito larvicides shall be applied only when absolutely necessary, as indicated by the District, and then only by a licensed professional or contractor. Contact information for the District is provided below.

Santa Clara Valley Vector Control District
1580 Berger Dr.
San José, California 95112
Phone: (408) 918-4770 / (800) 675-1155 - Fax: (408) 298-6356
www.sccgov.org/portal/site/vector

Table 1.

	Table 1 Routine Maintenance Activities for Bioretention Areas							
No.	Maintenance Task	Frequency of Task						
1	Remove obstructions, weeds, debris and trash from bioretention area and its inlets and outlets; and dispose of properly.	Quarterly, or as needed after storm events						
2	Inspect bioretention area for standing water. If standing water does not drain within 2-3 days, till and replace the surface biotreatment soil with the approved soil mix and replant.	Quarterly, or as needed after storm events						
3	Check underdrains for clogging. Use the cleanout riser to clean any clogged underdrains.	Quarterly, or as needed after storm events						
4	Maintain the irrigation system and ensure that plants are receiving the correct amount of water (if applicable).	Quarterly						
-5	Ensure that the vegetation is healthy and dense enough to provide filtering and protect soils from erosion. Prune and weed the bioretention area. Remove and/or replace any dead plants.	Annually, before the wet season begins						
6	Use compost and other natural soil amendments and fertilizers instead of synthetic fertilizers, especially if the system uses an underdrain.	Annually, before the wet season begins						
7	Check that mulch is at appropriate depth (2 - 3 inches per soil specifications) and replenish as necessary before wet season begins. It is recommended that 2" - 3" of arbor mulch be reapplied every year.	Annually, before the wet season begins						
8	Inspect the energy dissipation at the inlet to ensure it is functioning adequately, and that there is no scour of the surface mulch. Remove accumulated sediment.	Annually, before the wet season begins						
9	Inspect overflow pipe to ensure that it can safety convey excess flows to a storm drain. Repair or replace damaged piping.	Annually, before the wet season begins						
10	Replace biotreatment soil and mulch, if needed. Check for standing water, structural failure and clogged overflows. Remove trash and debris. Replace dead plants.	Annually at the end of the rainy season, and/or after large storm events						
11	Inspect bloretention area using the attached inspection	Annually, before the wet season						

IV. Inspections
The attached Bioretention Area Inspection and Maintenance Checklist shall be used to conduct inspections monthly (or an needed), identify needed maintenance, and record maintenance that is conducted.
Bioretention Area

Inspection and Maintenance Checklist

MADEN EXPRESSWAY

Property Owner: EDENBRIDGE HOME

Property Address: 6082 ALMADEN EXPRESSWAY Property Owner: EDENBRIDGE HOWES

Treatment Measure No.: Date of Inspection: Type of Inspection: Quarterly Pre-Wet

After heavy runoff

End of We

nspector(s):		-	U Other:
Conditions When Maintenance is Needed	Maintenance Needed? (Y/N)	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance is Performed
Water stands in the bioretention area between storms and does not drain within 2-3 days after rainfall.			There should be no erees of stending water once storm event has cassed. Any of the following may apply: sediment or trash blockages removed, improved grad from head to foot of bloretention area, or added underdrains.
Trach and debrie accumulated in the bioretention area, inlet, or outlet.			Trash and debris removed from bioretention area and disposed of property.
Evidence of sedimentation in bioretention area.			Material removed so that there is n clogging or blockage. Material is disposed of properly.
Channels have formed around inlets, there are areas of bare soil, and/or other evidence of erosion.			Obstructions and sediment remove so that water flows freely and disperses over a wide area. Obstructions and sediment are disposed of property.
Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.
Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 2 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch even in appearance, at a depth of 3 inches.
Any condition not covered above that needs attention in order for the bioretention area to function as designed.			Meets the design specifications.

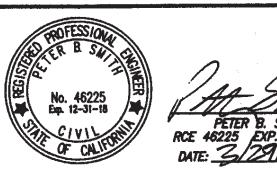


Charles IV. Davidson Co.

A CALIFORNIA CORPORATION
CONSULTING CIVIL ENGINEERS

255 W. JULIAN ST. \$200
SAN JOSE, CA 95110—2406
TEL (408) 295—9162

FAX (408) 287-6350



	Date: 3-27-17			
	Scale: N.T.S.			
	Designed: LL./J.D.			
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ROUGH GRADING AND DRAINAGE PLAN
STORMWATER DETAILS & MAINTENANCE
TRACT NO. 10383
SONTERRA

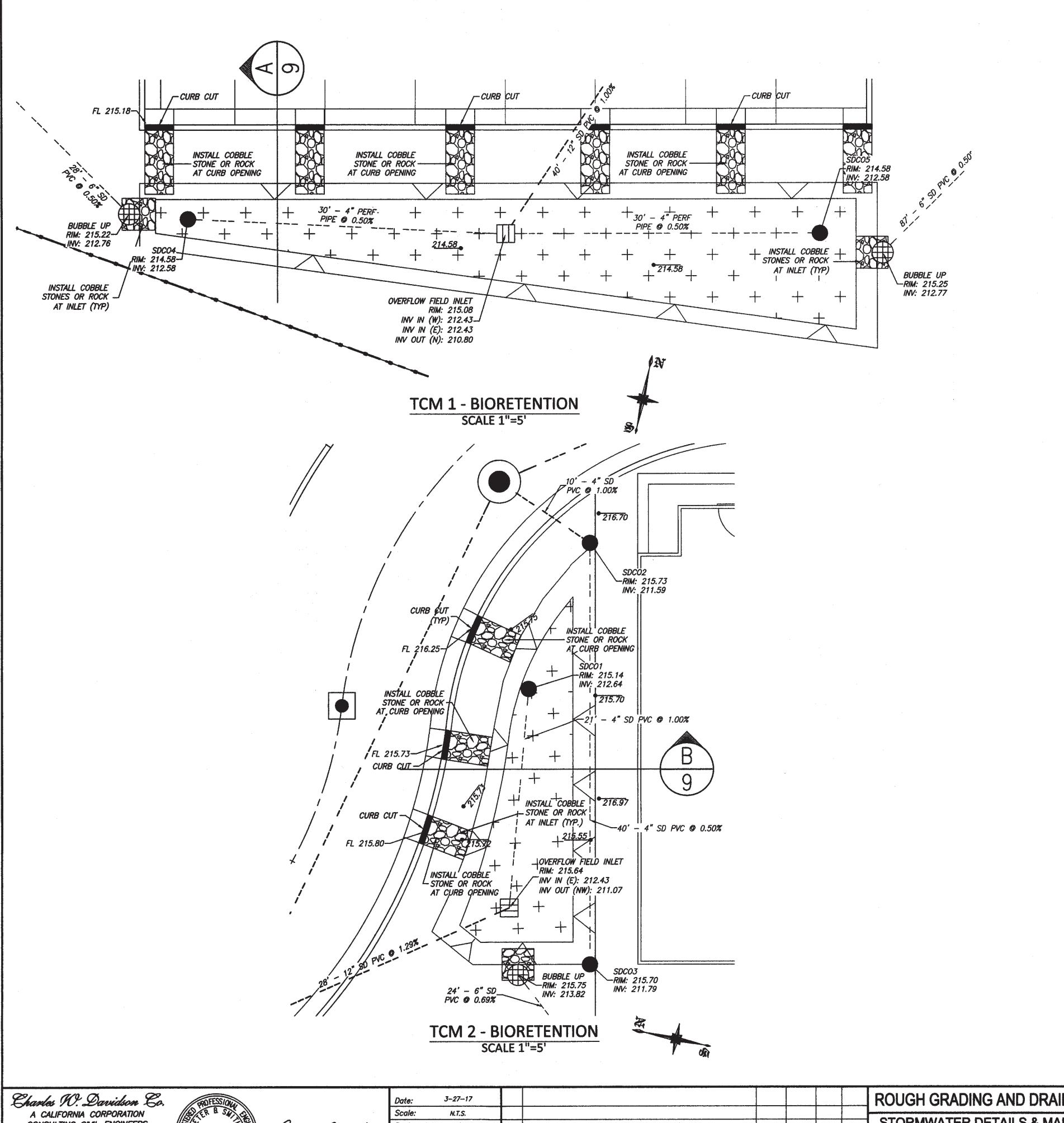
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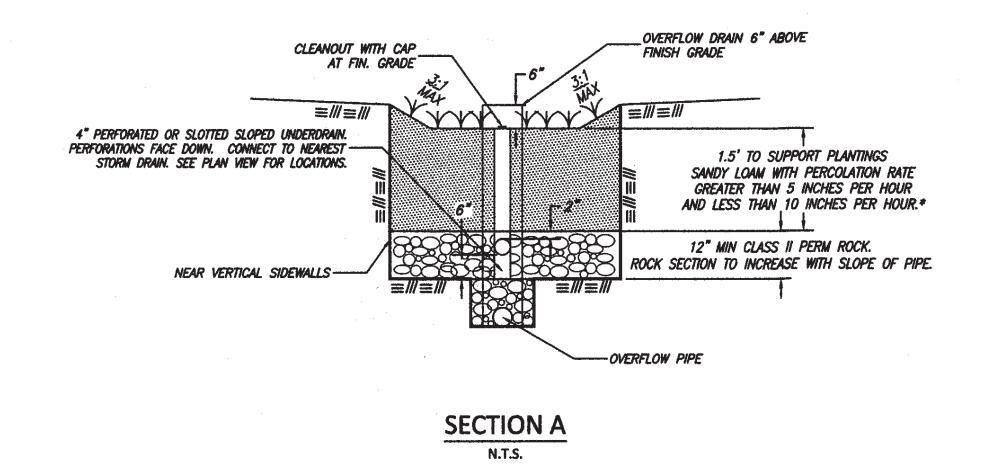
PERMIT # 16-127213GR
PROJECT # 3-18273

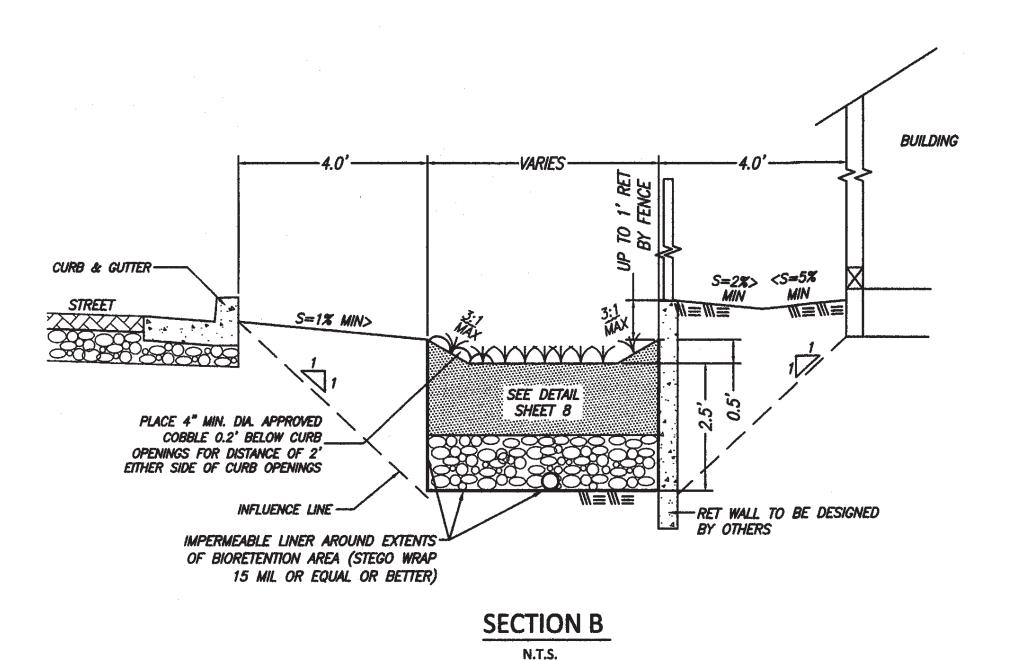
PROJECT STEVE PLETSCH
VOICE MAIL: (408) 591-0565

SHEET 8 OF 12 SHE

OF 12 SHEETS







BIORETENTION AREA NOTES:

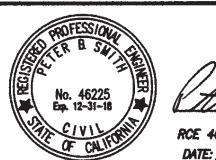
- 1. SEE SHEET 8 FOR ADDITIONAL BIORETENTION GENERAL INFORMATION.
- 2. SOIL USED IN LANDSCAPE BASED TREATMENT MEASURE SHALL MEET THE INTENT OF THE SPECIFICATIONS INCLUDED IN THE MOST RECENT VERSION OF THE SANTA CLARA VALLEY URBAN RUNOFF POLLUTION PREVENTION PROGRAM C.3 STORMWATER HANDBOOK.
- 3. COBBLE INSTALLED AT CURB OPENINGS SHALL CONSIST OF 4" MINIMUM DIAMETER APPROVED COBBLE, 0.2 FEET BELOW THE CURB OPENING FOR A MINIMUM DISTANCE OF 2 FEET. PLACE GEOTEXTILE (MIRAFI FILTERWEAVE FW500 OR EQUAL) BETWEEN COBBLE AND NATIVE SOIL (IF APPLICABLE) FOR EROSION CONTROL.

Charles IV. Davidson Co.

A CALIFORNIA CORPORATION
CONSULTING CIVIL ENGINEERS

255 W. JULIAN ST. \$200
SAN JOSE, CA 95110-2408

TEL. (408) 295-9162
FAX (408) 287-6350



PETER B. SMITH
RCE 46225 EXP. 12-31-18
DATE: 2/29//

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ROUGH GRADING AND DRAINAGE PLAN
STORMWATER DETAILS & MAINTENANCE
TRACT NO. 10383
SONTERRA

PERMIT # 16-127213GR
PROJECT # 3-18273

PROJECT STEVE PLETSCH
VOICE MAIL: (408) 591-0565

CALIFORNIA

BIOTREATMENT SOIL REQUIREMENTS

PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX

OR DELIVERY TO THE PROJECT SITE, CONTRACTOR

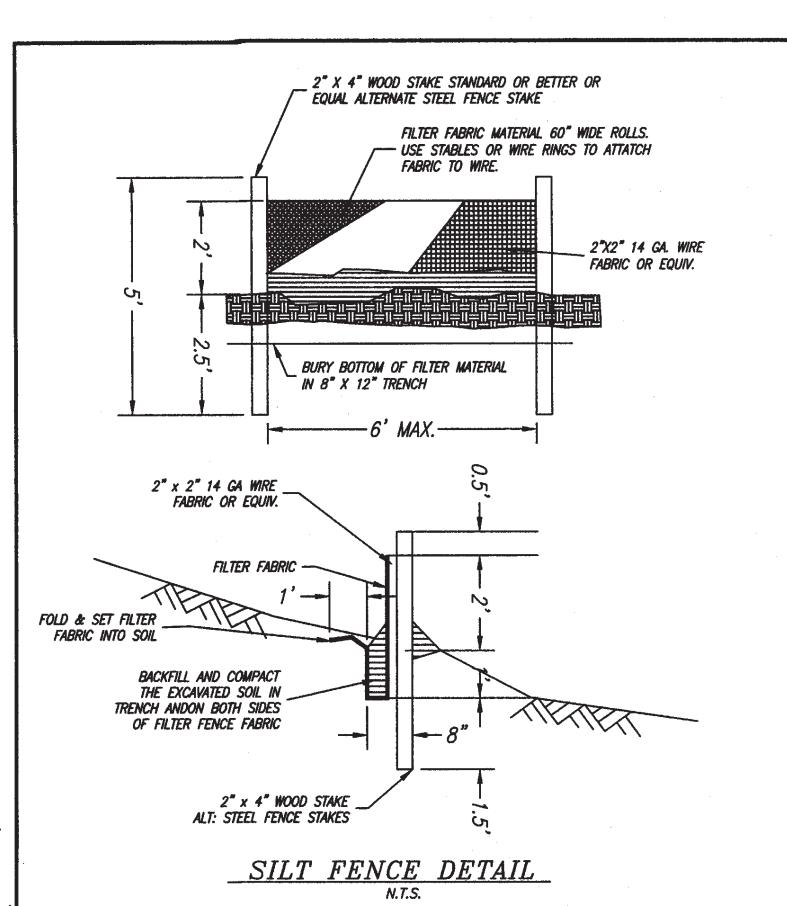
SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL

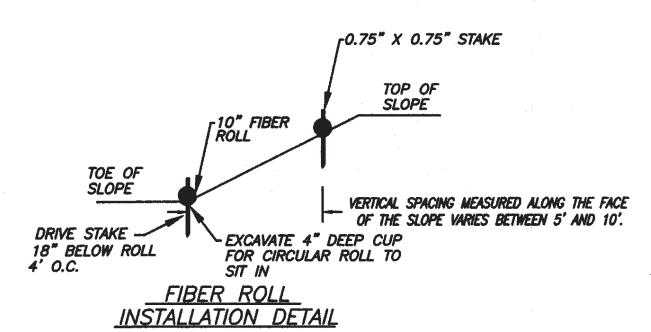
SHALL PROVIDE A BIOTREATMENT SOIL MIX

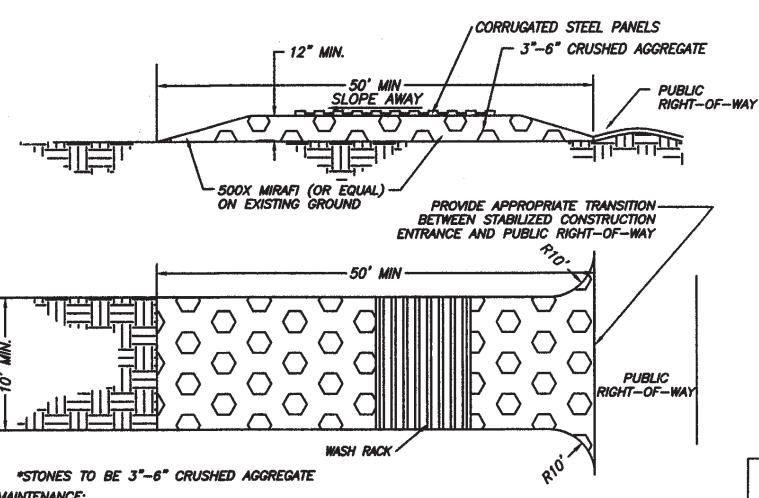
MIX SUPPLIER AND CERTIFIED TESTING LAB.

SHEET 9

OF 12 SHEETS







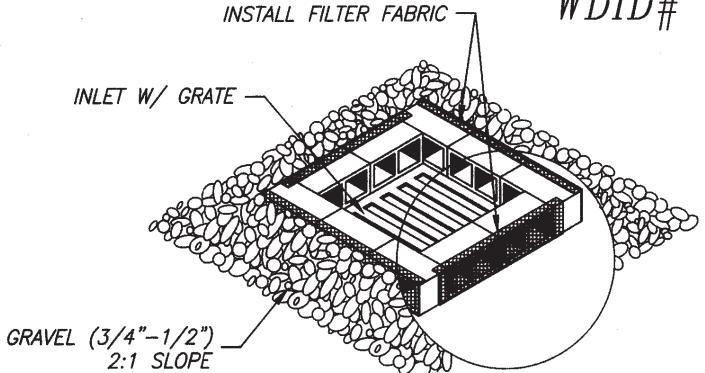
MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.

WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. THIS SHALL BE DONE AT AN AREA STABILIZED WITH CRUSHED STONE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

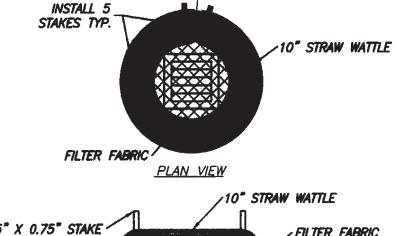
> STABILIZED CONSTRUCTION ENTRANCE N.T.S.

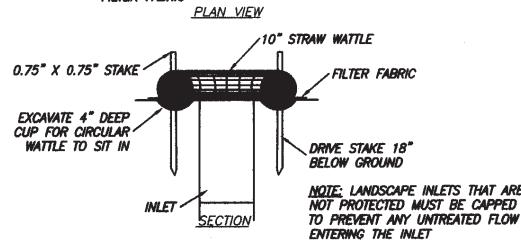
EROSION CONTROL PLAN TRACT NO. 10383

WDID# 2 43C376161



BLOCK & GRAVEL INLET PROTECTION BEFORE STREETS ARE PAVED N.T.S.





ALTERNATE FIBER ROLL INLET PROTECTION MAY BE USED IN LANDSCAPE AREA DRAINS

BMP SUMMARY TABLE						
BMP CATEGORY	BMP USED					
EROSION CONTROL	WIND EROSION CONTROL CONSTRUCTION ENTRANCE OUTLET PROETECTION/ VELOCITY DISSIPATION DEVICES					
SEDIMENT CONTROL	SILT FENCE STORM DRAIN INLET PROTECTION STABILIZED CONSTRUCTION ROADWAY FIBER ROLLS STREET SWEEPING AND VACCUUMING					
GOOD SITE MANAGEMENT	STORAGE OF CONSTRUCTION MATERIALS APPLICATION AND STORAGE OF LANDSCAPE MATERIALS MANAGEMENT OF WASTES AND WASTE MATERIALS ON SITE					
NON-STORMWATER MANAGEMENT	WATER CONSERVATION PRACTICES ILLEGAL DUMPING REPORTING VEHICLE AND EQUIPMENT MAINTENANCE					
RUN-ON AND RUN-OFF CONTROL	STABILIZED ENTRANCE, FIBER ROLLS, SILTFENCE					
ACTIVE TREATEMENT SYSTEMS	NOT APPLICABLE					

MAINTENANCE MEASURES

CONTROLS	INSPECTION FREQUENCY	MAINTENANCE/REPAIR MEASURES
STABILIZED CONSTRUCTION ENTRANCE	WEEKLY AND 2 BUSINESS DAYS (24 HOURS) AFTER QUALIFYING RAIN	REPLACE GRAVEL MATERIAL WHEN VOIDS ARE PRESENT REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS REMOVE GRAVEL AT COMPLETION OF CONSTRUCTION
JUTE MAT	WEEKLY AND 2 BUSINESS DAYS (24 HOURS) AFTER QUALIFYING RAIN	REPAIR WHENEVER JUTE MAT IS DAMAGED REMOVE SEDIMENT WHEN IT REACHES 1/3 THE DEPTH OF THE JUTE MAT ESPECIALLY IF HEAVY RAINS ARE EXPECTED
FIBER ROLLS	WEEKLY AND 2 BUSINESS DAYS (24 HOURS) AFTER QUALIFYING RAIN	REPAIR WHENEVER FIBER ROLL IS DAMAGED REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE FIBER ROLL ESPECIALLY IF HEAVY RAINS ARE EXPECTED
STORM DRAIN INLET PROTECTION	WEEKLY AND 2 BUSINESS DAYS (24 HOURS) AFTER QUALIFYING RAIN	REPLACE CLOGGED FILTER FABRIC IMMEDIATELY REMOVE SEDIMENT WHEN THE DEPTH EXCEEDS 2/3 THE HEIGHT OF THE FILTER

LEGEND

SITE BOUNDARY IF THE STREET IS NOT PAVED SEE THE INLET PROTECTION DETAIL ON THIS SHEET, IF THE STREET IS PAVED USE MODIFIED SILT SACK. (SEE DETAIL ON THIS SHEET) ALTERNATE FIBER ROLL INLET PROTECTION (SEE DETAIL ON THIS SHEET) STANDARD INLET FLAT GRATE INLET

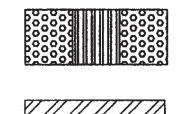
DESCRIPTION

PROPOSED

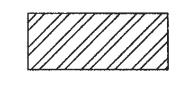
SILT FENCE AND 10" FIBER ROLL ALONG PERIMETER

FLOW DIVERSION BERM

AREA DRAIN INLET

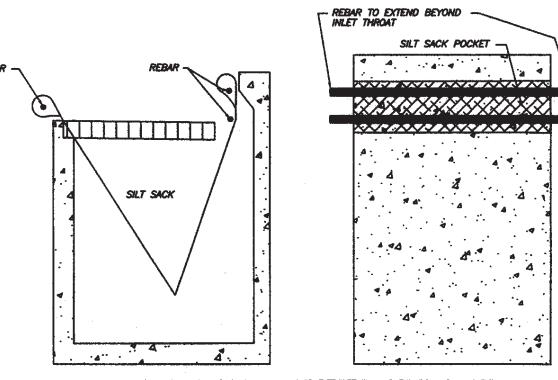


STABILIZED CONSTRUCTION ENTRANCE WITH TIRE WASH 3"-6" ROCK (MIN)



CONCRETE TRUCK WASHOFF AREA CONTRACTOR CAN MOVE LOCATION AS NEEDED

FIBER ROLL



CALIFORNIA MODIFIED SILT SACK REED & GRAHAM, INC. (OR EQUAL) AFTER STREETS ARE PAVED

PERMIT # 16-127213GR

PROJECT # 3-18273

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

CONTACT: CHRISTOPHER GATLEY 21771 STEVENS CREEK BLVD., STE 200A CUPERTINO. CA 95014

CONTRACTOR:

EDENBRIDGE HOMES CONTACT: CHRISTOPHER GATLEY 21771 STEVENS CREEK BLVD., STE 200A CUPERTINO, CA 95014 (669) 231-4240

IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN.

2. CIVIL ENGINEER: CHARLES W. DAVIDSON CO., A CALIFORNIA CORPORATION 255 W. JULIAN STREET, SUITE 200, SAN JOSE, CA 95110 PHONE: (408) 295—9162

3. CONSTRUCTION SUPERINTENDENT: JEFF RICE 24 HR. PHONE: (510) 292-6286

(669) 231-4240

GRADING CONTRACTOR: EDENBRIDGE, INC.

21771 STEVENS CREEK BLVD STE 200A (669) 231-4240

- 4. THIS PLAN IS INTENDED TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE USED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS.
- 5. DEVELOPER WILL SUBMIT TO THE CITY MONTHLY (AT THE FIRST OF EACH MONTH BETWEEN OCTOBER 1st AND APRIL 30th) CERTIFICATIONS THAT ALL EROSION/SEDIMENT MEASURES IDENTIFIED ON THE APPROVED EROSION CONTROL PLAN ARE IN PLACE. IF MEASURES ARE NOT IN PLACE, DEVELOPER SHALL PROVIDE THE CITY WITH A WRITTEN EXPLANATION OF WHY THE MEASURE IS NOT IN PLACE AND WHAT WILL BE DONE TO REMEDY THIS SITUATION.
- 6. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING, AND AFTER STORM EVENTS.
- 7. REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.
- 8. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- 9. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES.
- 10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL
- 11. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.

EROSION AND SEDIMENT CONTROL MEASURES:

- 1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1, TO APRIL 30. FACILITIES ARE TO BE OPERABLE PRIOR TO SEPTEMBER 15 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH <u>EROSION CONTROL</u> MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES. DURING THE NON-RAINY SEASON BEST MANAGEMENT PRACTICES (BMPS) MUST BE IMPLEMENTED DURING CONSTRUCTION WHICH INCLUDES, BUT IS NOT LIMITED TO: STABILIZED CONSTRUCTION ENTRANCE, TIRE WASH AREA AND INLET PROTECTION.
- 2. THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING WITH ASSUMED SITE CONDITIONS AS SHOWN ON THE EROSION CONTROL PLAN. PRIOR TO SEPTEMBER 15, THE COMPLETION OF SITE IMPROVEMENTS SHALL BE EVALUATED AND REVISIONS MADE TO THIS PLAN AS NECESSARY WITH THE APPROVAL OF THE CITY ENGINEER. PLANS ARE TO BE RESUBMITTED FOR CITY APPROVAL PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL SITE IMPROVEMENTS ARE ACCEPTED BY THE
- 3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CON-STRUCTION ENTRANCE WAYS. (ALSO INCLUDE THIS NOTE ON GRADING PLANS.)
- 4. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE CITY.
- 5. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY SEPTEMBER 23, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER, 2) BLOWN STRAW, 3) TACKIFIER AND MULCH.
- 6. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
- 7. LOTS WITH HOUSES UNDER CONSTRUCTION WILL NOT BE HYDROSEEDED. EROSION PROTECTION FOR EACH LOT WITH A HOUSE UNDER CONSTRUCTION SHALL CONFORM TO THE TYPICAL LOT EROSION CONTROL DETAIL SHOWN ON THIS SHEET.
- 8. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE CITY REPRESENTATIVE OF ANY FIELD

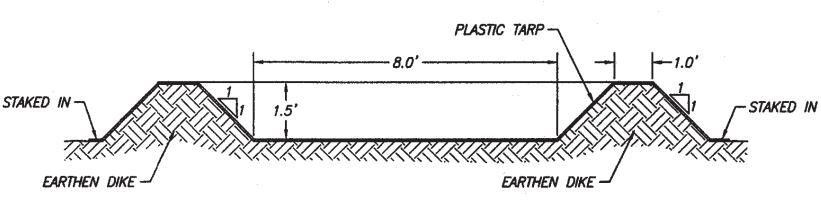
MAINTENANCE NOTES:

- 1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS: A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING
- SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED
- SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
- WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1 FOOT.

SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS

- SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A
- MANNER THAT IT WILL NOT ERODE. F. RILLS AND GULLIES MUST BE REPAIRED.

2. SAND BAG INLET PROTECTIONS SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE SAND BAG.



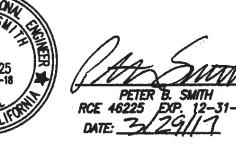
CONCRETE TRUCK WASHOFF AREA N.T.S.

TENTATIVE CONSTRUCTION SCHEDULE ROUGH GRADING COMPLETION UNDERGROUND UTILITIES COMPLETED PAVING COMPLETED

Charles W. Davidson Co. A CALIFORNIA CORPORATION CONSULTING CIVIL ENGINEERS 255 W. JULIAN ST. #200 SAN JOSE, CA 95110-2406 TEL. (408) 295-9162

FAX (408) 287-6350







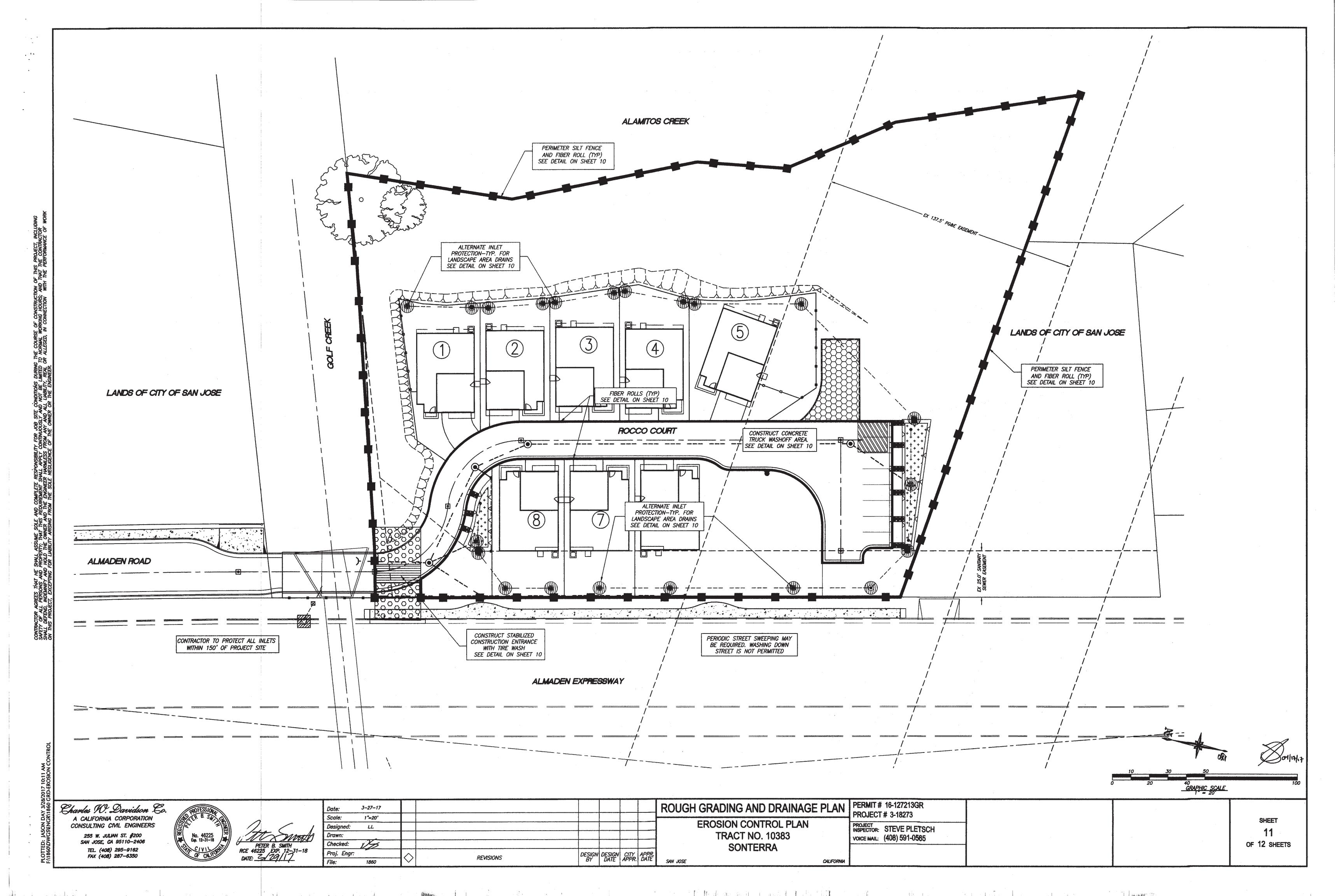
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ROUGH GRADING AND DRAINAGE PLAN **EROSION CONT** TRACT NO. SONTER

SAN JOSE

TROL PLAN . 10383		PROJECT INSPECTOR: VOICE MAIL:	STEVE PLETSCH (408) 591-0565
RRA			
	CALIFORNIA		

SHEET OF 12 SHEETS



PROJECT STRUCTURAL NOTES

GENERAL INFORMATION:

- THE CONTROLLING DESIGN CODE IS THE 2013 IBC AND 2015 CALIFORNIA BUILDING
- 2. THE PROJECT WAS DESIGNED FOR THE FOLLOWING LOADS: A. SOIL DESIGN VALUES: (PER CORNERSTONE EARTH GROUP REPORT #466-3-1 DATED MAY 18, 2016).

40 PCF (NO LATERAL<8') EFP (LEVEL): 450 PCF IGNORE TOP 12" PASSIVE PRESSURE: UNIT WEIGHT:

ALLOWABLE SOIL BEARING PRESSURE: 2000DL 3000DL+LL 4000EQ/WL PSF WND LOAD: 85 MPH EXPOSURE B SEISMIC LOAD: SITE CLASSIFICATION 'D'
THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS

PRIOR TO COMMENCING WORK. ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS. SUBJECT TO REVIEW OF A.O.R. AND E.O.R.

SPECIAL INSPECTION REQUIRED SHALL BE PROVIDED PER CBC CHAPTER 17. ALSO SEE CITY OF SAN JOSE — DEPARTMENT OF PUBLIC WORKS COMPLETED SPECIAL INSPECTION FORM SPECIFICALLY SHOWING THE TEST REQUIRED FOR THIS PROJECT

AND SITE
SPECIAL INSPECTION IS REQUIRED AS FOLLOWS:

A. REINFORCING STEEL SHALL BE INSPECTED PERIODICALLY DURING INSTALLATION TO VERIFY SIZE AND LOCATION. B. CONCRETE SHALL BE INSPECTED CONTINUOUSLY DURING PLACEMENT. INSPECTOR SHALL MAKE CONCRETE CYLINDERS AND TEST 3 CYLINDERS FOR EVERY 100 YARDS OF CONCRETE POURED, OR FOR EACH DAY'S POUR. THE CYLINDERS

SHALL BE TESTED AT 7 DAY, 28 DAY AND 1 HELD FOR CONTROL.

C. ALL INSPECTION REPORTS SHALL BE DISTRIBUTED TO THE OWNER, ARCHITECT, ENGINEER, AND PERMIT AGENCY. THE INSPECTOR SHALL PROVIDE A SUMMARY LETTER OF PROJECT COMPLETION.

FOUNDATIONS:

WALLS TO BE SUPPORTED ON SPREAD FOOTINGS. SEE SCHEDULE/DETAIL SECTION FOR REINFORCING AND SIZES. GEOTECHNICAL ENGINEER TO REVIEW ALL EXCAVATION PRIOR TO PLACEMENT OF CONCRETE.

REINFORCING STEEL:

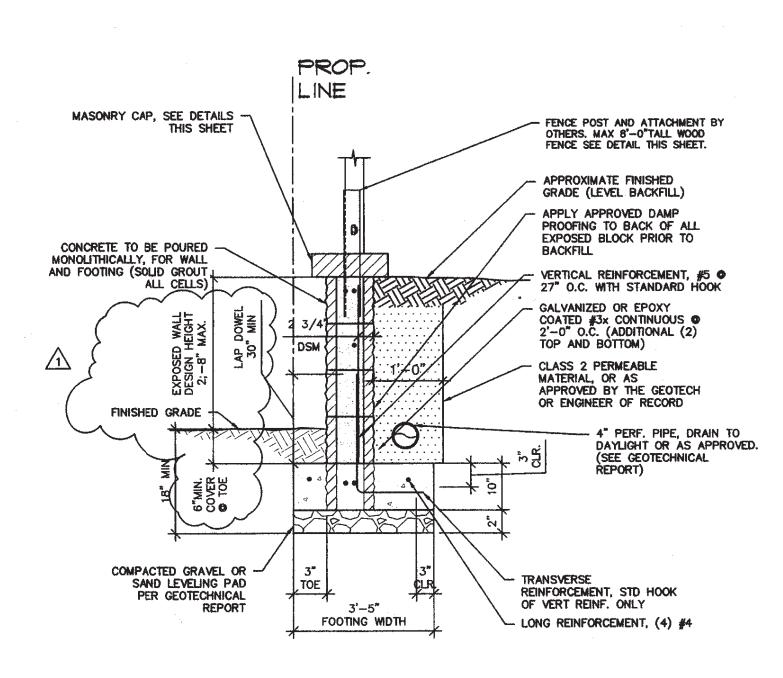
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60. AT FOOTING PLACE 2-0 x 2-0 BARS MATCHING SIZE AND SPACING AT CORNERS
- AND INTERSECTIONS. 3. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN
- ACCORDANCE WITH ACI DETAILING MANUAL 315.
 AT FOOTING LAP ALL REINFORCING BARS PER ACI DETAILING MANUAL.
- 5. AT FOOTING SECURELY TIE ALL REINFORCING, ALL TIE WIRES TO BE GALVANIZED
- OR ANNEALLED WIRE PER THE ACI. 6. AT FOOTING PROVIDE 3" CLEARANCE FOR ALL REINFORCING IN CONCRETE CAST
- AGAINST EARTH, 2" FOR CONCRETE EXPOSED TO AIR, AND 1 1/2" FOR ALL INTERIOR EXPOSURE. 7. AT WALL ALL HORIZONTAL REINFORCING TO BE GALVANIZED OR EPOXY COATED. WALLS 4'-0" AND SHORTER MAY USE NON-GALVANIZED REINFORCEMENT FOR
- HORIZONTAL BARS IF NOT SUPPORTING VEHICULAR LOADS. 8. AT WALL PROVIDE MINIMUM (2) #3 HORIZONTAL BAR AT TOP AND BOTTOM OF
- WALL, AND MINIMUM (1) #3 AT 2'-0" O.C. TYPICAL.

 9. AT WALL ALL VERTICAL BARS ARE TO TERMINATE IN FOOTING WITH STANDARD HOOK OR LAPPED TO BAR WITH STANDARD HOOK INTO FOOTING.
- 10. AT WALL PROVIDE 1/2" CLEARANCE FOR ALL VERTICAL BARS AND INSIDE FACE

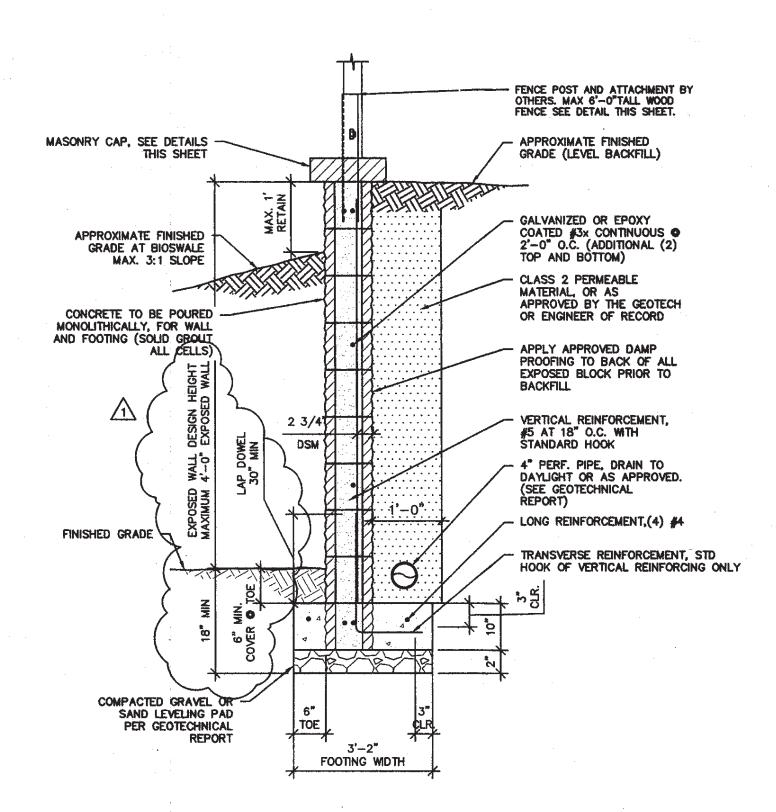
- ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY LAB CURED COMPRESSIVE
- STRENGTH OF 5000 PSI FOOTING AND 5000 PSI AT WALL. 2. ALL EXPOSED CONCRETE TO HAVE 5% +/- 1% AIR, BY VOLUME, CONFORMING TO
- 3. THE CONCRETE AGGREGATE SHALL BE A CRUSHED PEA-GRAVEL MIX (MAXIMUM AGGREGATE SIZE OF 1/4")

CONCRETE MASONRY BLOCK:

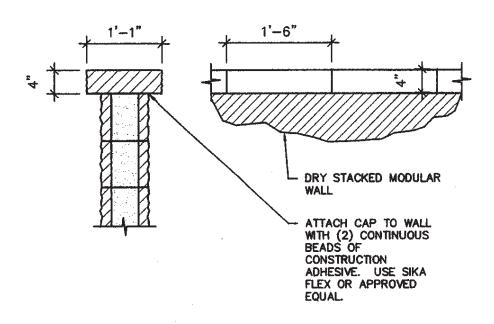
- UNITS TO BE 28 DAY STRENGTH OF 1800 PSI OR APPROVED EQUAL.
- 2. ALL DSM RETAINING WALLS TO BE SOLID GROUTED.
 3. GROUT TO BE A PEA-GRAVEL CONCRETE MIX WITH 28 DAY STRENGTH OF 5000 PSI. CONCRETE FOR FOOTINGS 5000 PSI. WALL DSM TO BE 5000 PSI.
 4. AN EFFLORESENCE CONTROLLING ADMIXTURE IS RECOMMENDED.



SECTION - WALL WITH SOUND FENCE ALONG LOTS **S1**



SECTION - WALL AT BIOSWALE 3/4"= 1'-0"



TOP OF WALL CAP BLOCK

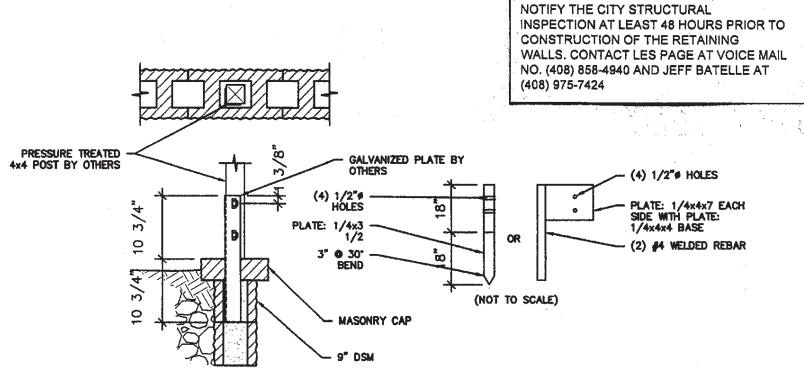
TYPICAL DRY STACK BLOCK

3/4"= 1'-0"

S1

S1

SPECIAL BOTE: RETAINED TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND RETAINING WALL **FOUNDATION PHASE OF** CONSTRUCTION PER SOIL REPORT ECOMMENDATIONS AND THAT INOPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.



FENCE IN WALL DETAIL 3/4"= 1'-0"

- STANDARD DSM UNIT VERTICAL PER SECTION, WITH STANDARD HOOK SOLID GROUT ALL UNITS 9" WIDE VOID **©** 27" O.C., 18" O.C., OR 9" O.C., SEE SCHEDULE 6" - TOP OF FOOTING LONG REINFORCEMENT PER SCHEDULE 1" CLEAR OF CONCRETE COVER, 3" CLEAR TO COMPACTED GRAVEL OR TRANSVERSE HORIZONTAL REINFORCEMENT PER REINFORCEMENT SCHEDULE IF (2) VERT BARS ARE
USED, THEN THE BARS ARE
TO BE 1" CLEAR BETWEEN,
BUT LAPPED WITH THE
REQ'D LAP BAR. 1'-6" BOTTOM OF EXCAVATION

> **DSM WALL ELEVATION** 3/4"= 1'-0"

APPROVED City of San Jose SEC!, ES Division, Public Works 6.Building

RETAINING WALL INSPECTION

CONTRACTOR OR PERMITEE SHALL

02/27/2017 Date: Drawn by: Checked by: DSM WALL DETAILS

7

Expires: Dec. 31, 20 S لبا

AND ENGINEERIN YVER.

LEAD Job#: 17-060 Revisions: 1 PLAN RVW-4/3/1

Sheet No.