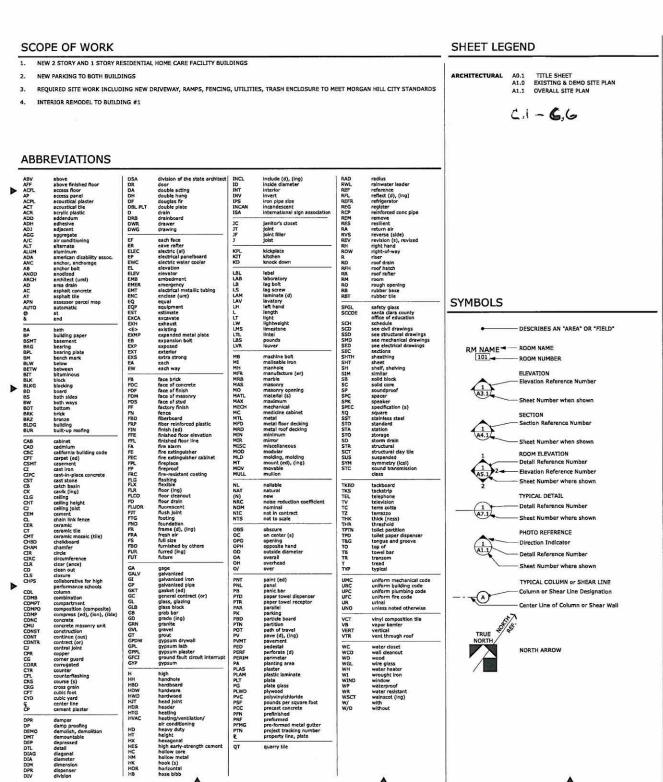
# VILA MONTE CARE FACILITY

CONDITIONAL USE PERMIT SUBMITTAL

## **NELLY AMAS**

17090 PEAK AVENUE, MORGAN HILL, CA 95037



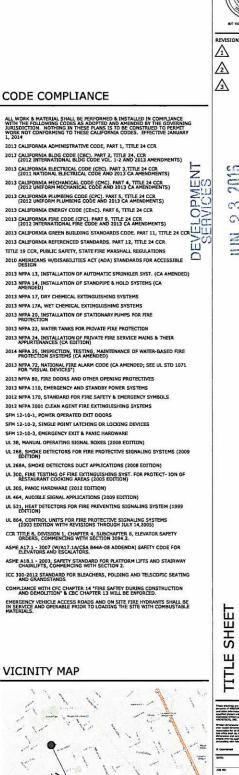
# CONTACTS **BUILDING & SITE DATA** AMAS HOME CARE 17090 PEAK AVENUE MORGAN HILL, CA 95037 ATTN: NELLY AMAS PHONE: 1-408-993-9268 FAX: 1-408-947-1923 ARCHITECT ATTN: LESLEY MILES, A.I.A SMP CIVIL ENGINEERS 1534 CAROB LANE LOS ALTOS, CA 94024 CIVIL ATTN: SAEID RAZAVI PHONE: 1-650-941-8055 WESTON MILES ARCHITECTS, INC. 17500 DEPOT STREET, SUITE #120 MORGAN HILL, CA 95037 **GENERAL FIRE NOTES**

SITE ANALYSIS

#### SITE ACREAGE ZONING R3 (C) GENERAL PLAN MULTI-FAMILY LOW <E> BUILDING ONE - SPINKLERED OCCUPANCY TYPE: NUMBER OF STORIES: TYPE OF CONSTRUCTION: SEE SITE ANALYSIS ALLOWABLE SO.FT. (TABLE 503) SEE SITE ANALYSIS ACTUAL SQ.FT. TOTAL ROOMS TOTAL BEDS/PATIENTS BLDG 1 **BUILDING TWO - SPINKLERED** OCCUPANCY TYPE: NUMBER OF STORIES: TYPE OF CONSTRUCTION: SEE SITE ANALYSIS ALLOWABLE SO.FT. (TABLE 503) SEE SITE ANALYSIS ACTUAL SQ.FT. TOTAL ROOMS TOTAL BEDS/PATIENTS BLDG 2 **BUILDING THREE - SPINKLERED** OCCUPANCY TYPE: NUMBER OF STORIES: TYPE OF CONSTRUCTION ALLOWABLE SO.FT. (TABLE 503) SEE SITE ANALYSIS SEE SITE ANALYSIS ACTUAL SQ.FT. (16) 2 BED/PATIENT ROOMS (10) 1 BED/PATIENT ROOMS TOTAL BEDS/PATIENTS BLDG 3 TOTAL BED/PATIENTS ON SITE PARKING CALCULATIONS MORGAN HILL MUNICIPAL CODE (CHAPTER 18.50) REQUIRES 1 SPACE FOR EACH 2 BEDS FOR HOSPITALS, REST HOMES, AND NURSING HOMES. TOTAL BED/PATIENTS = 84 / 2 = 42 PARKING SPACES REQUIRED PARKING SPACES PROVIDED STANDARD STALLS COMPACT STALLS ACCESSIBLE STALLS (1-50\*) 2 REQUIRED NUMBER OF ADA PARKING SPACES REQUIRED PER CBC TABLES 118-208, 118-501 & 118-502

(BLDG 1 = 5,770 SF) + (BLDG 2 = 3,920 SF) = 9,690 SF

(1ST FLR =10.126) + (2ND FLR = 9.485) = 19.611 SF



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2015

3 CV MORGAN HILL

OF

2013 NFPA 80, FIRE DOORS AND OTHER OPENING PROTECTIVES 2012 NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

SFM 12-10-2, SINGLE POINT LATCHING OR LOCKING DEVICES SFM 12-10-3, EMERGENCY EXIT & PANIC HARDWARE

UL 38, MANUAL OPERATING SIGNAL BOXES (2008 EDITION)

UL 305, PANIC HARDWARE (2012 EDITION)

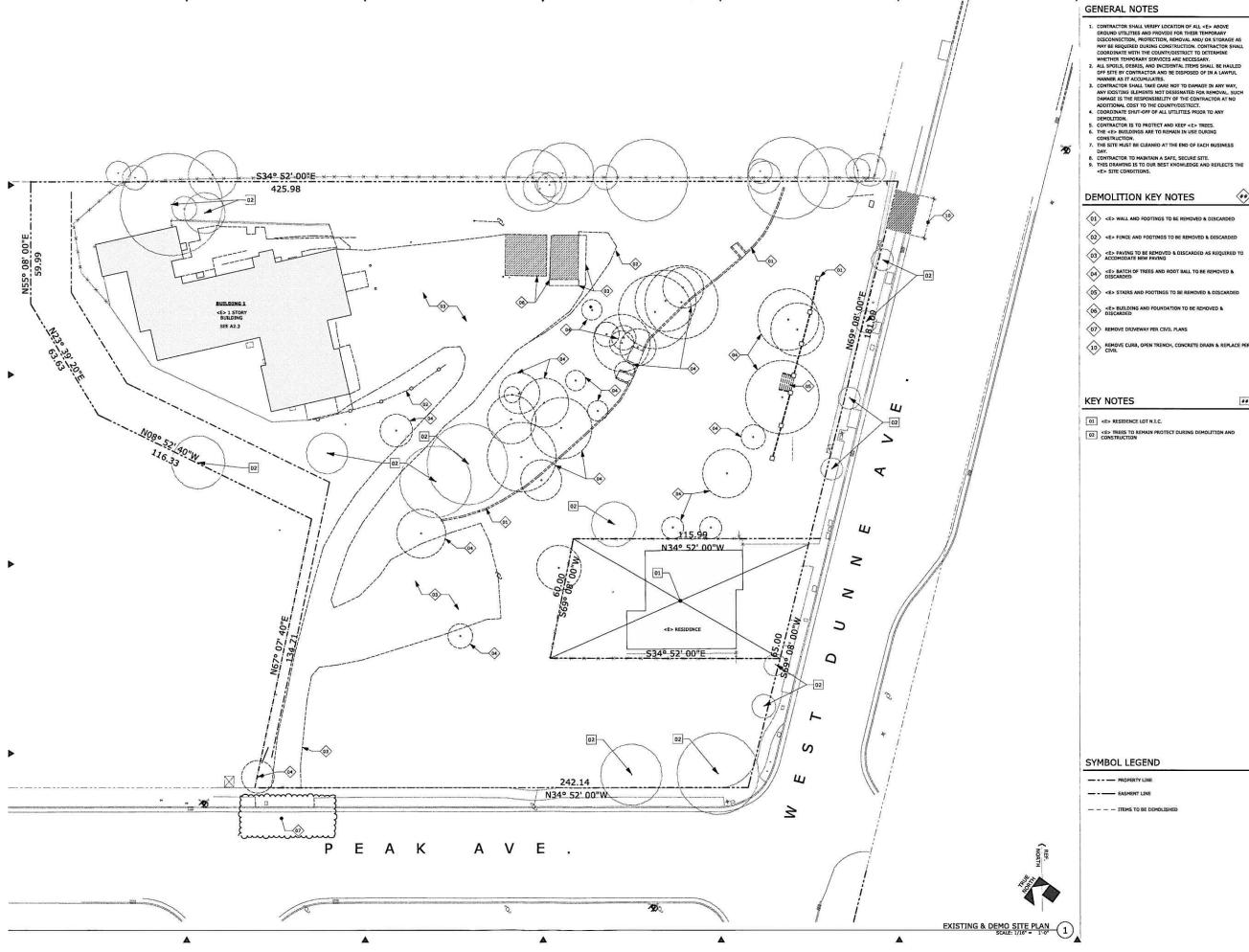
UL 464, AUDIBLE SIGNAL APPLICATIONS (2009 EDITION)

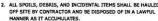
COMPLIANCE WITH CFC CHAPTER 14 "FIRE SAFTEY DURING CONSTRUCTION AND DEMOLITION" & CBC CHAPTER 13 WILL BE ENFORCED. EMERGENCY VEHICLE ACCESS ROADS AND ON SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTABLE



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A0.1





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 $\triangle$ 

2

3

- (02) <E> FENCE AND FOOTINGS TO BE REMOVED & DISCARDED
- <E> BATCH OF TREES AND ROOT BALL TO BE REMOVED & DISCARDED
- 05 <E> STAIRS AND FOOTINGS TO BE REMOVED & DISCARDED
- <6> <E> BUILDING AND FOUNDATION TO BE REMOVED & DISCARDED
- 210 REMOVE CURB, OPEN TRENCH, CONCRETE DRAIN & REPLACE PER

<E> TREES TO REMAIN PROTECT DURING DEMOLITION AND CONSTRUCTION

SITE PLAN EXISTING & DEMO S

6/21/2016 14032

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Y . . .

### **GENERAL NOTES**

- FOR SITE AND BUILDING DATA PLEASE SEE AU.
- FOR PARKING CALCULATIONS SEE A0.1
- 3. PA = PLANTING AREA SEE LANDSCAPE PLAN L1.0
- PROVIDE ON ALL PUBLICLY ACCESSIBLE EXTERIOR DOORS, AUTOMATIC DOOR OPERATORS THAT ARE LISTED FOR USE BY THE STATE OF CALIFORNIA.



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 $\Lambda$ 2

3

(N) BLDG

(N) PERVIOUS AC

(N) PERVIOUS CONCRETE

#### ACCESSIBILITY NOTES

- PEDESTRIAN PATH OF TRAVEL (P.O.T.) INDICATED AS A BARRIER FREE, COMMON, ACCESS ROUTE WITHOUT ANY ARRUPT VERTICAL CHANGES EXCECOING 1/2\* BEVELED AT 112\* MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4\* VERTICAL. THE PATH'S SURFACE SHALL BE AT LEAST 48\* WIDE, SLIP RESISTANT, STABLE, FREM AND SMOOTH, PASSING SPACES (DEC 118-403.5.3) SHALL BE AT LEAST 60\* X6 OF ARE LOCATED NOT MOSE THAN 200\* APART. PARTS OF POT WITH CONTINUOUS GRADIENTS SHALL HAVE 60\* LEVEL AREAS (DC 11840.7) NOT MORE THAN 200\* APART. THE CROSS SLOPE SHALL O'T EXCEED 24\*, AND THE SLOPES IN THE DIRECTION OF TRAVEL THAT EXCEED 34\* SHALL BE CONSTRUCTED AS ACCESSIBLE RAMPS. THE P.O.T. SHALL BE CONSTRUCTED AS ACCESSIBLE RAMPS. THE P.O.T. SHALL BE CRESSED SHETHER OF THE PROPERTY OF THE P.O.T. SHALL BE CONSTRUCTED AS ACCESSIBLE RAMPS. THE P.O.T. SHALL CONTRIBUTED AS ACCESSIBLE RAMPS. THE P.O.T. SHALL CONT
  - ARCHITECT AND CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED PER SECTION 11-84033.
- ACCESSIBLE PATH OF TRAVEL SHALL BE SLIP RESISTANT & COMPLY WITH SECTIONS 118-303 OF TITLE 24.
- ACCESSIBLE GROUND FLOOR ENTRY/ EXITS SHALL COMPLY WITH:
  CBC 118-404.2.4

  - 24\* STRIKE SIDE CLEARANCE AT EXTERIOR PULL SIDE OF
  DOORS
  - 6:0\* MIN LEVEL AREA (2% MAX SLOPE) PERPENDICULAR TO
  DOOR @ EXTERIOR & INTERIOR
  LEVEL LANDING AREA CONNECTED TO ACCESSIBLE ROUTE
  THROUGHOUT SITE.
- 6. ALL EXTERIOR DOORS SHALL COMPLY WITH ADA STANDARDS

OVERALL VILA MONTE CA

PLAN

SITE

6/21/2016 14032

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_	ABBREVI <i>A</i>	1110	111.00	
DESCRIPTION		DESCRIPTION		
D-S DTL ELCT EP	BACK OF WALK  CUES AND BUTTER  GARAGE FINISH FLOOR (BACK)  CHESTANDE SWALE  CLEANOUT  DRINEWAY  DETAILS  DETAILS  ELECTRIC  ELECTRIC  ELECTRIC  ELECTRIC  ELECTRIC  FINISHED FLOOR  RINSHED FLOOR  RINSHED GRADE  FINISHED FLOOR  FINISHED FLOOR  FLOOR  GARAGE FINISHED  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  ELECTRIC  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  GARAGE FRISHED  JOWN FREIT  JO	PGEV R.P.A. PPERF P.VC R.CP SDMH STD SS SSMH SW T IT SOW THE TOOK	NEW ORIGINAL GROUND ORIGINAL GROUND OVERLAUD RELEASE ELEVATION OF SEAL	

LEGEND

DESCRIPTION

PROPERTY LINE

FILL AREA LIMIT

WATER LINE

PROPOSED

OH e.T.TV

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## CONCEPTUAL GRADING AND DRAINAGE PLANS AMAS HOME CARE 17090 PEAK AVE, MORGAN HILL CA

#### EARTHWORK TABLE

	CUT (CY)	FILL (CY)	IMPORT (CY)	EXPORT (CY)
BUILDING 1 (SOUTHERLY)	1,260	910		
BUILDING 2 (NORTHERLY)	110	160		
ROAD (DRIVEWAY) & IT'S 2 SET OF STALLS	1,770	350		
LOWER PARKING LOT & IT'S LANDSCAPE	0	950		
UPPER PARKING LOT & IT'S LANDSCAPE	0	510		
COURT YARD, FRONT ENTRY YARD	0	630		
TOTAL	3,140	3,510	370	0

- EARTHWORK QUANTITIES ON THIS TABLE ARE FOR INFORMATION ONLY. CONTRACTORS ARE TO PERFORM THEIR OWN QUANTITY TAKE OFFS.
- ALL ESTIMATES ARE ENGINEER ESTIMATE, FROM EX. FINISH SURFACE TO PROPOSED FINISH SURFACE. THICKNESS OF EXISTING AND PROPOSED PACEMENTS, SUB BASE, SLABS AND FOUNDATION TRENCHES TO BE CALCULATED BY CONTRACTORS FOR BIDDING PURPOSES.

# St Catherine's School (1) 17090 Peak Ave.

LOCATION MAP

## SHEET INDEX:

COVER SHEET/ NOTES/ DETAILS

CROSS SECTIONS, DETAILS

STORMWATER CONTROL PLAN

STORMWATER CONTROL DATA/ NOTES/ DETAILS

## SITE BENCHMARK: SURVEY CONTROL SET MAG NAIL ELEVATION=376.00' (ASSUMED)

#### DRAINAGE NOTES

Surface water shall be directed away from all buildings into drainage swales, gutters, storm drain inlets and drainage systems

- Connect roof down spouls to 3" D.I.P @ minimum 1% slope and 6" ground cover. Connect pipe to PLANTER BOXES per STORM WATER CONTROL PLANS. See architectural plans
- 3 On site storm drain lines shall consist of solid PVC-SCH 40 OR PVC SDR-35 minimum or better. Use PVC SCH80 OR PVC SDR-26 for pipes running under driveway.

  4 Storm drain niets shall be precest concrete, Christy U23 type or equivalent. Use traffic grade cover for inlets in driveways and stalls.

## UTILITY NOTES:

L UTILITY FORTIS OF CONNECTION ARE 5' DUTSIDE OF BUILDING. SEE WECHANICAL AND PLUMBING DRAWNOS FOR UTILITY CONNECTION.

2 CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD. ALL CONTRACTORS SHALL CALL US A. (1-800-227-2600).

48 HOURS SEFORE DIGGING AND OBTAIN AND IDENTIFICATION NUMBER.

 COORDINATE UTILITIES SHOWN ON THESE SHEETS WITH INSTALLATION OF ELECTRICAL, TELEPHONE, CABLE TV AND GAS. 4 COORDINATE WATER LINE CONNECTION WITH CITY WATER COMPANY PRIOR TO CONNECTION TO WATER SYSTEM.

5. FOR GAS AND ELECTRICAL LOCATIONS, SEE PG&E MAPS

5. FOR GAS AND ELECTRICAL LOCATIONS, SEE FORE MAPS
6. ALL UTILITY TERONERS SHOULD BE BACKFILLED WITH COMPACTED FILL IN ACCORDANCE
WITH LOCAL REQUIREMENTS OR THE RECOMMENDATIONS IN THE SOILS REPORT. FILL MATERIAL
SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS AND
SHOULD BE COMPACTED TO AT LEAST 50 PERCENT RELATIVE COMPACTION (ASTM 0-1557,
LATEST EXTINOL BY MECHANICAL MEANS ONLY, EXCEPT WHERE LOCAL REQUIREMENTS SECTIVY
HIGHER REQUIREMENTS. IF IMPORTED SAND IS USED AS BACKFILL THE UPPER THREE FEET IN
OF BACKFILL IN ALL PAYMENT AREAS SHALL BE COMPACTED TO SEPTICELY. THE UPPER BRICE STATE
COMPACTION.

7. SANTARY SEWER PIPE SHALL BE PVC SDR26 FOR ON SITE LINES. STORM DRAIN PIPE SHALL BE 12" REINFORCED CONCRETE PIPE (UNLESS OTHERWISE SHOWN). 8. SANITARY SEWER LATERAL SHALL BE 4" PVC AT MINIMUM SLOPE OF 0.02 WITH CLEANOUT.

WALLE COMPANY.

10. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL INSTALLATIONS INSPECTED AND APPROVED BY THE RESPECTIVE UTILITY COMPANY, MUNICIPALITY, OR SOILS ENGINEER PRIOR TO ANY BACK FILLING. (48 HOUR NOTICE)

11. CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACK FILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION WITH THE RESPECTIVE UTILITY AGENCIES, ALLOWING 48 HOURS PRIOR TO THE NEED FOR INSTALLATIONS. 13 ALL TRENCHES, CONDUITS, AND BOXES ARE SHOWN SCHEMATICALLY

14. CONTRACTOR TO VERIFY ALL INVERTS AND LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.

#### GEOTECHNICAL REVIEW:

GRACING AND CHAINAGE PLANS SHALL BE REVEWED AND APPROVED BY THE PROJECT GEOTECHNICALY, SOLIS ENGINEER GEOTECHNICALY SOLIS ENGINEER TO PROVIDE AND FURNISH LETTER OF APPROVAL TO C. F.

#### WORK IN R-O-W

ALL WORK WITHIN CITY R-O-W ARE TO BE DONE UNDER SEPARATE ENCROACHMENT PERMIT. INFORMATION REGARDING IMPROVEMENTS WITHIN PUBLIC RIGHT-OF-WAY SHOWN HERE ARE FOR REFERENCE ONLY.

NOTICE TO CONTRACTORS CONTRACTOR TO NOTIFY U.S.A. (UNDERGROUND SERVICE ALERT) AT 800-227-2600 A MINIMUM OF 2. WORKING DAYS BEFORE BEGINNING UNDER-GROUND WORK FOR VERIFICATION OF THE LOCATION DEPTH OF UNDERGROUND UTILITIES.



PRELIMINARY PLANS NOT APPROVED FOR CONSTRUCTION

PLANS CONCEPTUAL GRADING AND DRAINAGE COVER SHEET

CARE VILA MONTE C

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ENGINEERS

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2/10/2015 14032

C-1

102.23 SPOT ELEVATION SWALE DIRECTION OF FLOW IN PIPE AREA DRAIN/ INLET

8

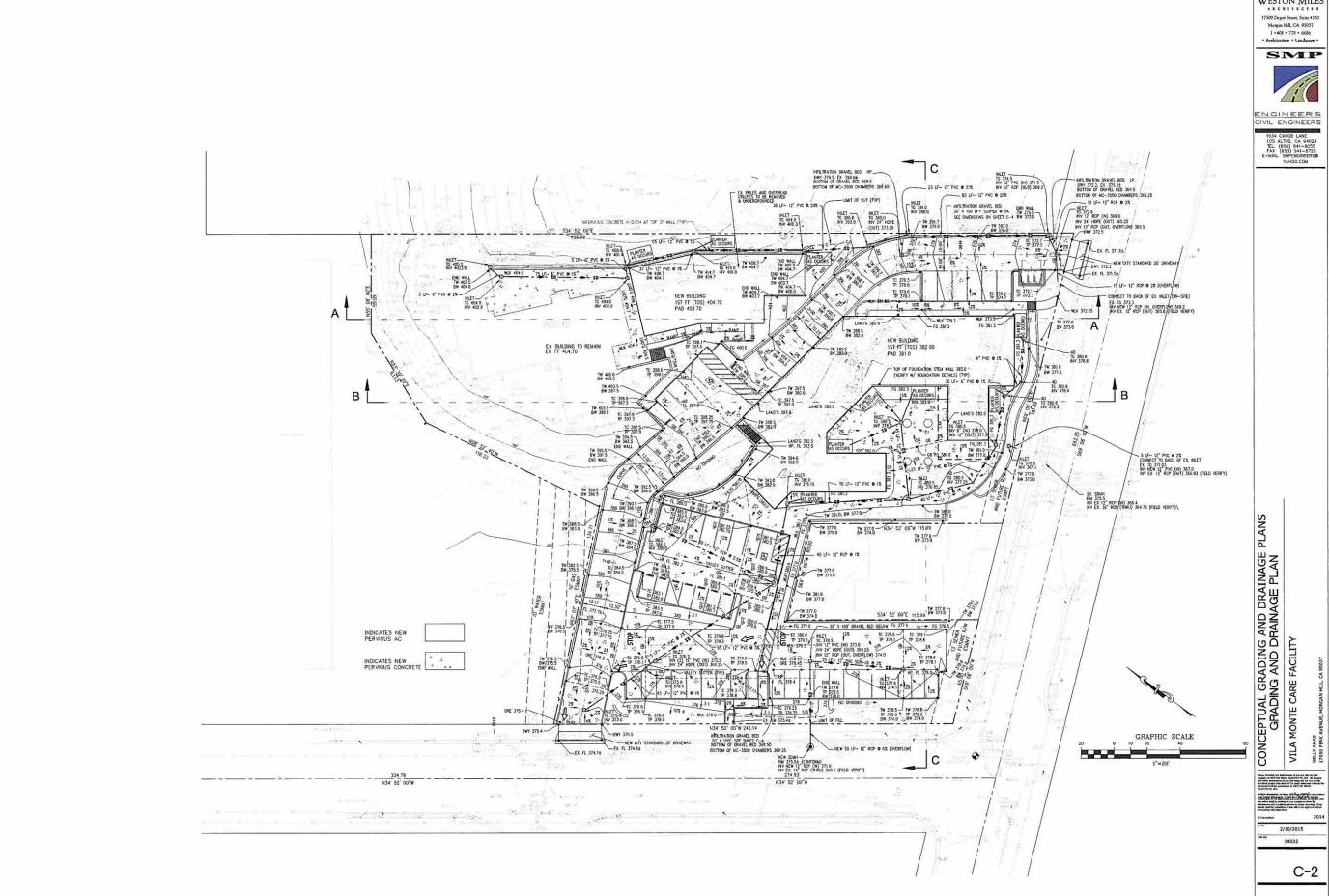
GAS LINE ELECTRIC LINE (UNDERGROUND) ELECTRICAL CONDUIT STREET LIGHT VAULT SANITARY SEWER CLEANOUT STORM DRAIN MANHOLE ELECTROLIER WATER METER TREE WITH TRUNK

SRADE TO DRAIN, 2% MIN. AWAY FROM HOUSE

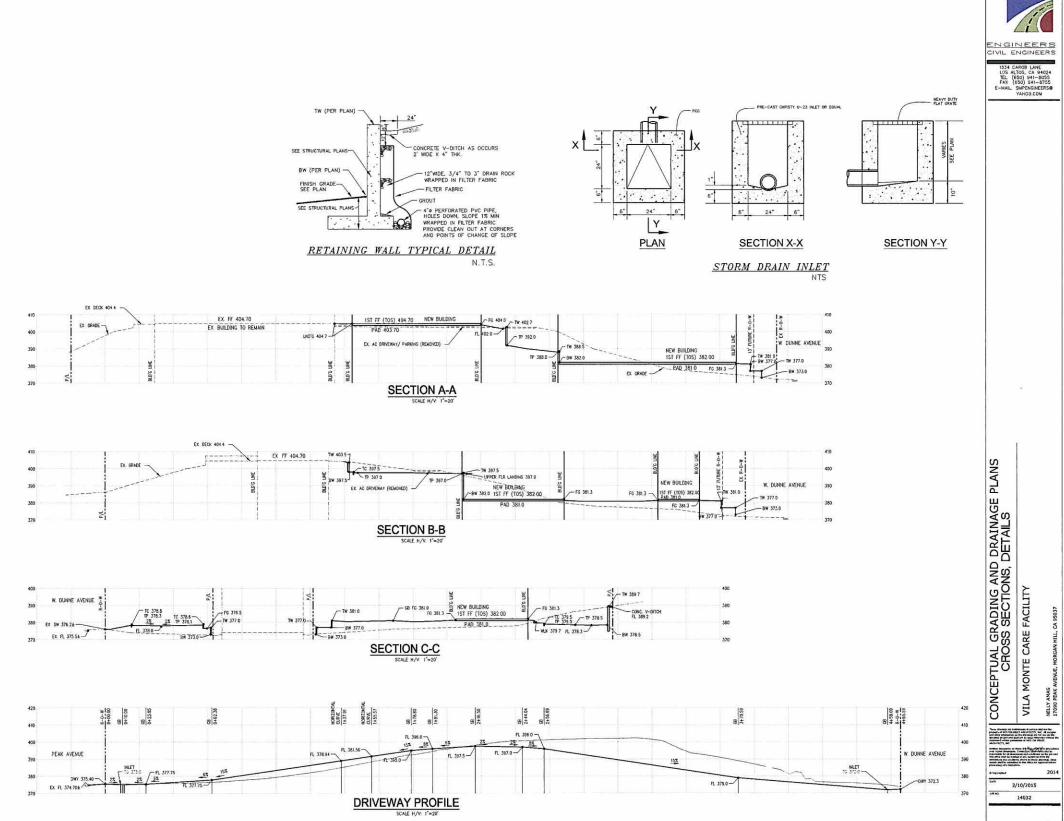
ROOF DOWN-SPOUT, CONNECTED TO STORM DRAIN SYSTEM

EXISTING

6' WOODEN FENCE







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C-3

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PRE-DEVELOPMENT Impervious area, Total of site

| AREA (SOFT) | AREA (ACRE
| AREA (SOFT) | AREA (SOF SCHPTION

BULGKG REMARN

(BETAGE GEMARN)

(DETAGED GUEST HOUSE E GARAGE REMOVED)

CONCRETE LUBRIGE FATTO (REMOVED)

CONCRETE PATTOS STEPSI WOOD DECK (REMARN)

CONCRETE PATTOS STEPSI WOOD DECK (REMARN)

CONCRETE PATTOS STEPSI WOOD DECK (REMARN) TOTAL PERVIOUS TOTAL SITE AREA (PROPERTY) POST-DEVELOPMENT Impervious area (Finish project), Total of a fle
DESCRIPTION

AREA (AGOFT) JAREA (AG

STRIP)

ENV BULDING 'A 3000

ENV AC DRIVEWAY/ PARKINGLOT CONCRETE WALKWAYWAY/ PATCK

DEF DESCRIPTION OF THE PARTY OF			
PRE-DEVEL OPMENT Impervious area, Over Dishu	AREA (SOFT)	AREA (ACRES)	MATERIAL
EX BUILDING (REMAIN)	1		Undisturbe
EX DETACHED GUEST HOUSE & GARAGE (REMOVED)	706	0.016	ROOF
EX. CONORETE LANDING & PATIO (REMOVED)	2.256	0.052	CONC
EX. CONCRETE PATIOS/ STEPS/ WOOD DECK ( REMAIN)	77.79		Undisturbe
EX AC DRIVEWAY/ PARKING/ BACK-UP AREA ( REMOVED)	*2.452	0.256	AC .
TOTAL IMPERVIOUS	15,414	0.068	IMPERVIOL
EX GROUND LANDSCAPE	51.930	1,192	GROUND
TOTAL PERVIOUS	51,930	1.192	PERVIOUS
TOTAL SITE Disturbed ares	67,344	1,546	

	TOTAL SITE Disturbed ares	
	POST-DEVELOPMENT Impervious area. Over I	isturbed
	DESCRIPTION	AREA
	EX BUILDING (REMAIN)	no Carl
	NEW BUILDING "A"	
	NEW BUILDING "B"	
OFT	HEW TRASH ENCLOSURE ROOF	
5000	EX. CONCRETE PATIOSI STEPS/ WOOD DECK / REMAIN	•
	TOTAL IMPERVIOUS	·
	NEW PERVICUS AC DRIVEWAY! PARKINGLOT	

Pre-Construction construction construction.

Let langest poth of run-off be from high point elevation 422.0' around middle of Northeasterly property line along the existing earth savide easterly of existing access KG proved road and discharging to most Southerly corner of property at corner of Peak Avenue and Durne Ave. elevation of 373.0°, a total run length of 400 LF.

Method 2. (FAA formula) TC pric (minutes)=  $1.8 \times (1.1 - c) L^0.0.5 / (100 S)^0.1/3$ , Where elev drop ( $0.4220 - 373.0 = 49.0^\circ$ ) Length Run (1.9 = 40.0 LF Effective Signe (S) = d/L = 49.0/400 = 0.122 FT/FT

For Site location, at 10 minutes duration: 1 2yr. =0.21 in/hr (= 1 design), I 10yr. = 1.6 in/hr , I 25yr. =1.9 in/hr and I 100yr = 2.1 in/hr ,

EXISTING AND PROPOSED PEAK FLOWS (TOATL SITE) CALCULATION FOR DESIGN STORM, 10 YR., 25 YR & 100 YR. STORMS, RATIONAL METHOD | PSTV-005 | C | MP PSTV-005 | C | MP PSTV-005 | S AREA | MP PSTV-00

Compliance with NPDES Water Quality Division: Compliance with Post-Construction stormwater management Requirement's (PCR's) for CENTRAL COAST REGION:

The Colifornia Regional Water Quality Control Board (CRWOCB), Central Coast Region, on July 2013, Adopted Resolution R3-2013-0032 (as documented by the Starmwater Management Guidance Manual for Low Impact Development and Post-Construction Requirements), opproving Past-Construction Starmwater Management Requirements for Development Projects in the Central Coast Region.

These updated stormwater quality control requirements for this project include:

a. Stormwater Control Plan Checklist and applicable calculations per the Stormwater Management Guidance Manual for Low Impact Development and Post-Construction Requirements.

b. Post—Construction Requirements per Stormwater Management Guidance Manual for Low Impact Development as follows:

- Performance Requirement 1: <u>Site Design and Runoff Reduction</u>
  i. Performance Requirement 2: <u>Water Quality Treatment</u>
  ii. Performance Requirement 3: <u>Runoff Retention</u>
  v. Performance Requirement 4: <u>Peok Managament</u>

PERVIOUS AND IMPERVIOUS SURFACES COMPARISON TABLE				
Project name	AMAS HOME CARE	Project Address	17090 PEAK AVE, MORGAN HILL CO	
Project APN:	767-03-017	Project/Application:	ZA-14-13, EA-14-15, PEAK-AMAS	
a, Project Phase Number (NA, 1, 2, 3, etc.):	N/A	b. Total Site (acres):	2.00	
c. Total Site Existing Impervious Surfaces (square feet):	22,032	d. Total Area of Site Disturbed (acres):	1.55	

(square feet):		Disastees (4C)	E4-		
e, Impervious Serfaces	Existing Condition of Site Area Disturbed (square feet)	Proposed Condition of Site Area Disturbed (square feet)			
	fadnete testi	Replaced*	New <sup>a</sup>		
Rool Area(s)	706	706	16	930	
Parking	12,452	0 0		0	
Sidewalks, Patics, Paths. etc.	2,256	0	9		
Streets (public)	0	.0	0		
Streets (private)	0	0	0 0		
Total Impervious Surfaces:	e.1: 15,414	e.2: 706	e.3:	16,930	
f. Pervious Surfaces					
Landscaped Areas	51,930	15 836		0	
Pervious Paving	0	33,872	0		
Other Pervious Surfaces (green molf, etc.)	0	0 0		0	
Total Pervious Surfaces	f.1: 51,930	12: 49,708	r.s:	0	

g. Total Proposed Replaced + New Impervious Surfaces (e.2 + e.3):	17,636
A. Total Proposed Replaced + New Pervious Surfaces (1.2 + 1.3):	49,708
I. Percent of Replacement of Impervious Area is redevelopment projects. [e.2+c x 100]:	3.2%
. Total Sits Post_construction impervious Surfaces (square feet):	20,876
k. Reduced Impervious Area Credit (c - j):	1,156
I. Net Impervious Area, (g-k):	16,480

#### Table Footnotes:

hish federates:
Processed Represed Imperious Surface: All imperious surfaces added to any use of the bit that was a previously existing imperious surface.
Processed New Imperious Surface: All imperious surfaces added to any uses of the site had was a previously existing perious surface.
Project. suill. comply. with. Performance requirements no. 1, 2, 3 and 4, as follows:

- 1: Site Design and Runoff Reduction Measures, incorporated into project design:

- | 1) Limit disturbance of creeks and natural drainage leatures
  | 1) Minimize compaction of highly permeable stills
  | 1) Minimize compaction of highly permeable stills
  | 2) Minimize compaction of highly permeable stills
  | 3) Minimize imprecious consistency of the still to the minimum area
  | 1) Individual management of the minimum area
  | 2) Minimize impervious surfaces by concentrating improvements on the least-ensitive
  | 2) portions of the sits, while leaving the emmaning land in a natural undisturbed stalls
  | 3) Minimize intervent runoff by implementing the following sits destign measures
  | 3) Construct bits leases, diverseys, uncovered perfing lots, sideosals, walknays and patios with permeable surfaces
  | 3) Construct bits leases, diverseys, uncovered perfing lots, sideosals, walknays and patios with permeable surfaces
- 2: Water Quality Treatment Measures, incorporated into project design: (on-site compliance archived)
- FLOW-THRU PLANTER BOXES TO BE SIZED TO 4% OF BUILDING ROOF ARES (project post-impervious areas), PER PROVISION 3) b) III, (b), (II) OF RESOLUTION R3-2013-0022:
  (b) Flow Hydroutic Dessig Boales Treatment systems whose primary mode of action depends on flow copacity shall be sized to treat:
  (ii) The flow of runoff resulting from a rain event equal to at least 0.2 inches per hour intensity.

## FLOW-THRU PLANTER sizing Calculation: PLANTER AREA CALCULATION: (Flow based design, simplified approach, I design = 0.2 In/hr)

Flow into planiar, Q in-flow (CFS) = I (design) x C (roof) A (roof) = 0.2 in/hr x 0.95 x A roof (Acres) = (0.95 x A roof (SGFT)) (43.560 SGFT / Acre) = (0.1640 (KGF) = 43.65 & A roof (SGFT)) (43.560 SGFT / Acre) = (0.1640 (KGF) = 43.65 & A roof (SGFT) = (0.1640 (KGF) = 43.65 & A roof (SGFT) = (0.1640 (KGF) = 5.164 x x (FT) = (0.1640 (KGF) = 5.1640 (KGF) = (0.1640 (KGF) = 5.1640 (KGF) = (0.1640 (KGF) = 5.1640 (KGF) = (0.1640 (KGF) = 6.1640 (KGF) = (0.1

Planters are located immediately next to building areas to receive direct discharge from roof down-spouts, planter sides FACING BUILDING and bottom are WATER TIGHT, so planters wouldn't infiltrate run-off into soil next to foundations, sides away from building to be pervious, so any woter remaining to box, not evaporated or catch by under-drain would dissipate into natural soil.

Separate water infiltration devices are to be sized to address run-off retention as required by <u>Performance Requirement No. 3: Runoff</u>
Retention.

POROUS ASPHALT AND PERVIOUS CONCRETE PAVEMENT WITH OPEN GRADED SUB-BASE, TO BE SIZED HOLD IT'S RUN-OFF AND INFILTRATE INTO SOIL BELOW (self retaining)

POROUS ASPHALT AND PERVIOUS CONCRETE PAVEMENT drain rock (sub-base) thickness string Calculation: (Volume based design, simplified approach, BMP Volume - 1.9 inches of rain, that is 95th percentile 24 hr rain for site, SEE SHEET C-6 FOR ENLARGED MAP Drain rock porosity - 35%.
Drain rock porosity - 35%.
Drain rock hickness required (\*\*) below underdrain=1.9 in/ 6.3 = 6.33 in,
SO LEST USE A MINIMUM OF 7 INCHES DRAIN ROCK BELOW UNDER ORAIN.
\*\* ininimum dain-rock depth required to address stormwater run-off scorage capacity, separate recommendation determination needed by project soits anglines; so pavement and it's sub-base thicknes traffic loads, without falling, while soil below compaction is milmias, and in saturated condition.

4: Performance Requirement No. 4: Peak Management

(on-site compliance archived) and (Not Applicable to this

project)
Since project proposes LESS
than 22 500 SQFT of new +
replaced impervious surface,
therefore it is exempt from
incorporating Peak
monagement requirements into

Statement: Water Quality Treatment, Runoff Retention, and Peak Management

Check drain rock Time of de-watering (preferred at most 24 to72 hours to avoid standing water problems such as most

3: Performance Requirement No. 3. Runoff Relention incorporated into project design: (on-site compliance archived)

Relention Tributary Area =(entire project grea) — (undisturbed or planted areas) — (impervious surface areas that discharges to

Adjustinents for Pedevelopment Propoct Retention Tributary Area — Where the Reguloted Project includes replaced impervious surface, the following Retention Tributary Area odjustments apply:

Redevelopment Projects faceted within on approved Urban Sustainability Area (Section C.3) — The replaced impervious surface areas may be subtracted from the Retention Tributary Area. The total amount of minoff volume to be retained from replaced impervious surfaces shall be equivalent to the pre-project minoff volume retained.

Adjusted Retention Tributary Area = Retention Tributary Area — The replaced impervious surface areas = \$1,508 — 706

Adjusted Retention Tributary Area = \$0,802 SQUE Adjusted Retention Tributary Area — The replaced impervious surface areas = \$1,508 — 706

WMZ selected for Site: WMZ: 1, overlaid on Holister Giray Underground Basin (SEE SHEET C-6 FOR MAP AND NOTES) A PORTION OF SITE, FRONTING CORNER OF PEAK AVENUE AND W DUNNE AVENUE LIES WITHIN WMZ3, AND A PORTION
(ABOUT HALF) FRONTING W DUNNE AVENUE WITHIN WMZ 8, AND REST OF SITE, IS LYING WITHIN WMZ 1. AS DELINEATED
ON Technical Support Document, Attachment A: Watershed Monogement Zone Maps, MORGAN HILL, CA
 Since WMZ 1 has the most restricted requirements, IMX 1 is selected for alte whenever entered into equations.

equation.

C = 0.8567 > 0.787 + 0.774 + 0.04

Where 7 is the fraction of the travillary area that is emperiorus

i = Project Impervious area within Retention Tributory Area/ Project Adjusted Retention Tributory Area = 17,636 / 50,802

or i = 0.35, and C = 0.44

- invert elevation for overflow to city system

15 SOFT Chamber Interior cross sectional area each linear FT storage capacity= 15 CF / LF

stormtech MC-3500

TI PANELS - STORMTECH MC 3500

D. Compute Relention Volume. Compute Relention Volume for 95% Percentile 24-hr Rainfall Depth = C  $\times$  Rainfall Depthese  $\times$  Retention Volume = 0.44  $\times$  1.9 in  $\times$  (1.FT /12 in)  $\times$  50.802 SOFT or Required Relention Volume (V req.)= 3.593 CF

Performance Requirements have been met on-site.

k. saturated, for UNDISTURBED (NATIVE) soils below: PECULATIONS TEST: 2.35 MPJ, test hole 3: 168 MPJ, tast hole 4: 84 MPJ, Targe aits: 168 MPJ, or k. saturated = 0.35 inches per hour. Depth of water 1.9 in Time of de-watering = 1.9 / 2.35 inches per hour.

Detention Basin sizing Calculation: (reference attachment D of resolution R3-2013-0032) Step 1: Determination of Retention Tributary Area

infatroling areas)
= (87,197) - (19,853 undisturbed areas + 15,836 planted area) - (0)
Retention Tributary Area = 51,508 SQFT

Determine the 95s percentile 24-hour roinfoll event:

1,9 inches for sits, per 95th Percentile Rainfall Depth Map, see sheet C-5.

A. Select structural Chamber: use stormlech MC 3500 chamber with cross section as follows:

Calculate length of Chamber & it's gravel bed required: Required Retention Volume (V req.)= 3,593 CF

and Storage capacity of each linear feet of selected MC 3500 chambers 22 CF / LF So MIN Required Length = 3.593/ 22 = 163 LF,

C. Compute the Runoff Coefficients  ${\bf T}^{\star}$  for the area tributary to the SCMs, using the equation.

6.10

B. Delarmine Storage capacity of each linear feel of selected MC 3500 chamber, with gravel parasity 0.3: Storage capacity= 15 + 7 , or Storage capacity= 60 to 15 + 7 .

D DESIGN:
SO USE (2)-- SYSTEMS, EACH PER FOLLOWING DIMENSIONS:
OVERALL CRAVEL BED (1) PANALS -- STOCKNIECH MC

27
28
2250
Uy. 88 00

ores of bottom of detention bosons: = 2  $\times$  [20 FT  $\times$  100 FT] = 4,000 SOFT ores of sides of detantion bosons: = 2  $\times$  [2 (20 FT  $\times$  100 FT)  $\times$  2]  $\times$  5,23 FT= 2,510 SOFT Hoff of old ores plus bottom over 4,000  $\times$  (2.500  $\times$  2) = 2,252 ST= 2,53 FT= 2,510 SOFT Hoff old ores plus bottom over 4,000  $\times$  (2.500  $\times$  2) = 2,252 ST= 2,53 FT= 2,510 SOFT Time of De-wottring  $\times$  3,03 FV /157 CF / hr = 22 9 hours over 10  $\times$  3,03 FV /157 CF / hr = 22 9 hours over 10  $\times$  3,03 FV /157 CF / hr = 22 9 hours over 10  $\times$  3,03 FV /157 CF / hr = 22 9 hours over 10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  3 FV /157 CF / hr = 20  $\times$  10  $\times$  10

ering = 3,003 CF / 157 CF / hr = 22 9 hours, voltaing = 23 hours, is less than 24 hour.

11 PANELS = 3105MIECH NC 3.

12 25 250 25 250

100.0

Step 2: Determination of Retention Volume A. determine Project's Runoff Retention Requirement;

Melhod 1: (Kripich formulo)
TC pre (minutes) = [f x 0.0078 x (L\*0.77/\$^0.385)] + 10, where:
HP else = 42.0 , LP else = 373.0',
else drop (d) = 422.0 - 373.0 = 49.0'
Length Rin (L) = 400 LF
Length Rin (L) = 400 LF
Effective Slope (S) = 4/L = 4/9.0/400 = 0.122 FT/FT
k = Kripich Deplarment foctors soil or roadside dicthes
and 10 minutes allow for over surface ponding and start run—off along flow line,

TC pre (minutes) = [1 x 0.0078 \* (400^0.77/0.122^0.385) ] + 10= [0.0078 \* (100.83/0.445)] + 10= 1.77 + 10 ~ 12 minutes

and c Pre-construction, average = 0.54 (see table below) TC pre =  $1.8 \times (1.1-0.54) \times (400^{\circ}0.5) / (12.2^{\circ}0.33) = 1.8 \times 0.55 \times 20 / 2.28 = 8.8 \sim 9$  minutes

#### So lets select 10 Minutes for TC Pre-construction

Route 1:
Let longest path of run-off be from roof peck to splash block, to flow—thru planter, into planters media soil, into perforated pipes in
Orain rock layer, into nearest links (10 minutes minimum.) and ignoring travel time within proposed drainage pipes. (as shorter time will
require a bigger starage) and into infiltration Basin,

Route 2.

Route 2.

The proposed front, and is tairs, elev 398.7, to high point of flow lins at center of proposed road, along center line of proposed road to proposed line at 1 Peek oversure entry driveway. To elev 375.5, a total run length of 255 LF and ignoring travel time within proposed dramage pipes.

Method 1 (Kirpich formulo) TC post (minutes) =  $\{k \times 0.078 \times (L^0.077/S^0.385)\} + 10$ , where HP size = 3.87. LP size = 3.75 G, size = 3.

TC post (minutes) =  $[0.4 \times 0.0078 * (250^{\circ}0.77/0.122^{\circ}0.385)] + 10 = [0.00031 * (70.2/0.40)] + 10 = 0.54 + 10 <math>\sim 11$  minutes

Method 2 (FAA formula) TC post (minutes)=  $1.8 \times (11-c) \ L^{\circ} \ 0.5 \ / \ (100 \ S)^{\circ} \ 1/3$ , Where elev drop (d) = 398.7 - 375.0 = 23.7' Length Fun (L) =  $250 \ U$  Elective Slope (5) =  $d/L = 23.7/250 = 0.095 \ FT/FT$  and  $c \ Fost--construction, overage = <math>0.53$  (see table below) TC post =  $1.8 \times (1-0.93) \times (250^{\circ}0.9) / (250^{\circ}0.9) / (35^{\circ}0.33) = 1.8 \times 0.57 \times 15.8 / 2.1 = 7.7 \sim 8 \ minutes$ 

ty, 88 00 Price-Valering / infitration time for selected growel but (s saturated = 0.35 in / bar per peculation test result. Late assume development when the saturated and 2.55 in / bar per peculation test result. Late assume development of selected grower but on derected possible of the saturation (but bottom area of bottom of selection basis = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides of detention basis: = 2 x 1/92 FT x 8 B TT] = 1,394 SGFT area of sides So lets select 10 Minutes for TC Post construction
Time of concentration has been increased due to delay created in peak flow from roof areas that have to go thru planters before reaching to Storm
Drainage system, and run-off from pervious pavements will be also delayed going thru sub-base layer of pervious pavement.
Lets assume constant Time of Concentration= 10 minutes, for Both Pre and Post construction.

Step 3: Determine Intensity at 10 minutes Duration for 2, 10, 25 and 100 year Storm events:

Step 4: Calculate Peak flow for 2, 10, 25 and 100 year Storm events:

C-4

decreases and tradition above to three decrease. They decrease the committee to the office for agreement before proceeded with better proceeded with better places.

2/10/2015

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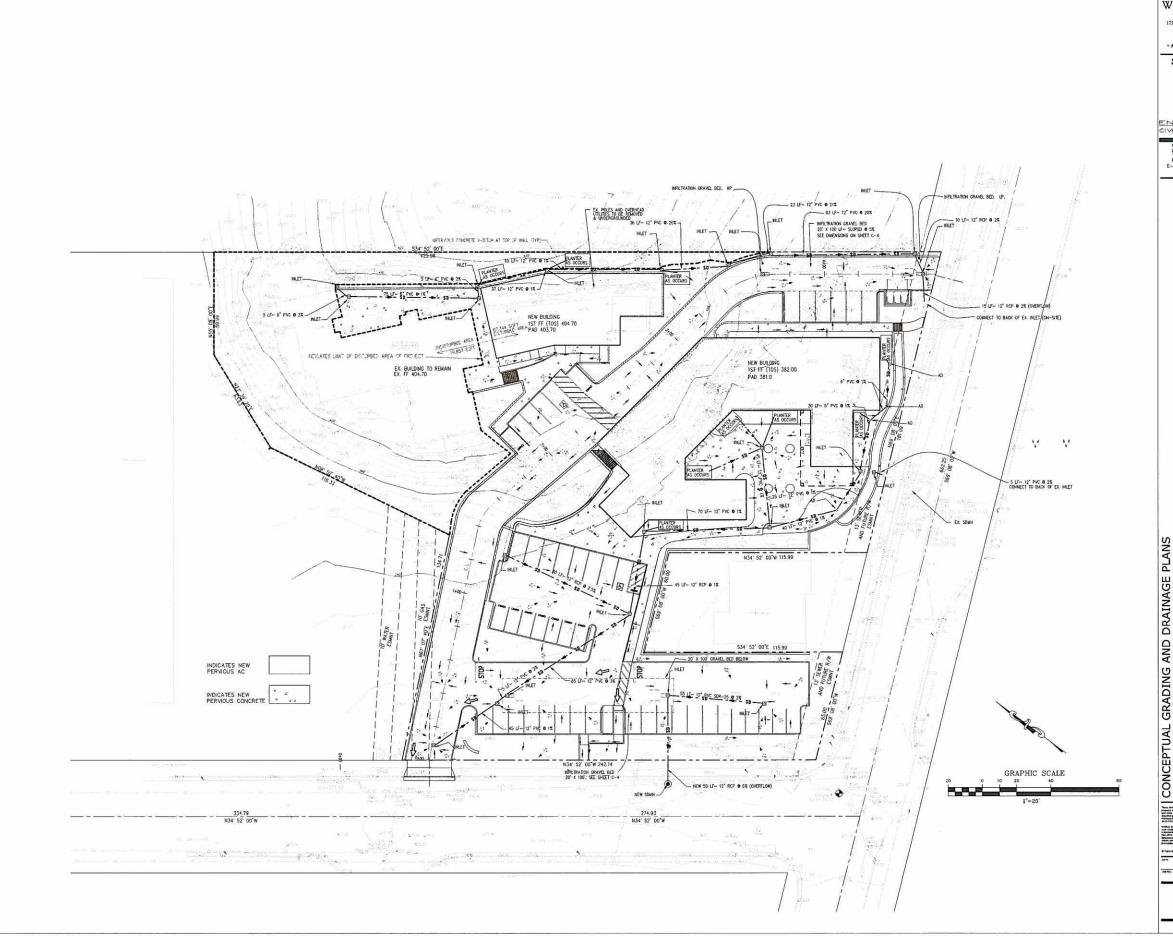
PLANS

DRAINAGE I

GRADING AND I

CARE

VILA MONTE (



17500 Depot Street, Suite #120 Morgan Hill, CA 95037 1 \*408 \* 779 \* 6686 \* Architecture \* Landscape \*

SMIP



ENGINEERS CIVIL ENGINEERS

1534 CAROB LANE LOS ALTOS, CA 94024 TEL (650) 941-8055 FAX (650) 941-8755 E-MAIL: SMPENGINEERSO YAHOO,COM

CONCEPTUAL GRADING AND DRAINAGE PLANS STORMWATER CONTROL PLAN VILA MONTE CARE FACILITY

2/10/2015 14032

C-5

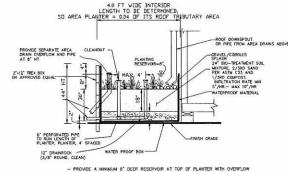
17500 Depot Street, Suite #126

Morgan Hill, CA 95037 1 •408 • 779 • 6686 Architecture • Landscape •

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ENGINEERS

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- PROVIDE A MINIMUM 8" DEEP RESERVOIR AT TOP OF PLANTER WITH OVERFLOW-USE 18" DEEP SAMDY-LOAM WITH MIN INFILTRATION RATE OF 5"/HR. - USE 12" DEEP DRAIN ROCK

FLOW-TROUGH PLANTER BOX ABOVE GRADE OPTION

FLOW-THROUGH PLANTER MAINTENANCE:: Planter boxes capture runoff from downspouts of riame boxes capture runot from downspouts of sheet flow from plazas and paved areas. The runoff briefly floods the surface of the box and then percolates through an active soil layer to drain rock below. Typically maintenance consists of the following:

-ROOF DOWNSPOUT

COMPACTED AND SCARIFIED NATIVE OR IMPORTED FILL

-24" BIO-TREATMENT SOIL MIXTURE, 2/3RD SAND PER ASTM C33 AND 1/3RD COMPOST, INFLITRATION RATE MIN 5"/HR.-MAX 10"/HR.

PRE-CAST SPLASH BLOCK MINL 250UD CHRATTY OUTLET PIPE TO BE CONNECTED TO ON-SITE STORM DRAINAGE SYSTEM VIA 6\* DIA SOLID PIPES, PER APPLICABLE PLUMBING AND BUILDING CODES.

GRAVEL/COBBLES

4

FLOW-TROUGH PLANTER BOX

BELOW GRADE OPTION

a) Examine DOWNSPOUTS from the rooftops or sheet flow from paving to insure that flow to the planter is unimpeded. Remove any debris and repair any damaged pipes. Check splash blocks or rocks and repair, replace, or replenish as necessary.

b) Examine the OVERFLOW pipe to make sure that it can safely convey excess flow to a storm drain. Repair or replace any damaged or disconnected

c) Check the UNDERDRAIN piping to make sure it is intact and unobstructed.

d) Observe the STRUCTURE of the box and fix any holes, cracks, rotting, or failure.

e) Check that the SOIL is at the appropriate depth to allow a 8" reservoir above the soil surface and is sufficient to effectively filter stormwater. Remove any accumulations of sediment, litter, and debris. Confirm that soil is not clogging and that the planter will drain with 3-4 hours after a storm event.

f) Determine whether the VECETATION is dense and healthy. Replace dead plants. Prune or remove any overgrown plants or shrubs that may interfere with plantler operation. Clean up fallen leaves or debris and replenish mulch. Remove any nuisance or invasive vegetation.

# Mor SITE LOCATION -

CLEANOUT -

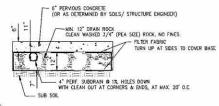
2"x12" TREX BOX -12" CLASS II PERMEABLE ROCK PER CALTRANS SPECIFICATION

PERFORATED PIPE-TO RUN LENGTH OF PLANTER

Lying within WMZ's 3, 8 and 1. Since WMZ 1 has the highest restrictions, all performance requirements have been WATER MANAGEMENT ZONES, ENLARGED

-3"-6" STONE FOR OVERFLOW DRAINAGE (OPTIONAL) POROUS ASPHALT TYP. 3° THICK 2012 MRATI 140N FILTER FABRIC OF BOTTOM AND SIDES OF OPEN-CRADED BASE

TYPICAL POROUS ASPHALT PAVEMENT PARKING LOT AC PAVEMENT DETAIL



NOTE: PROJECT SOILS ENGINEER TO REVIEW THE DESIGN AND INSPECT THE CONSTRUCTION OF THE DRIVEWAY. PERVIOUS CONCRETE DETAIL WALKWAY & PATIOS PERVIOUS PAVEMENT DETAIL The following maintenance activities should be performed on an angoing basis:
a) Keep landscaped areas well maintained,
b) Prevent soil being washed onto pavement;

a) Vacuum clean surface using commercially available sweeping machines at the following times:

- Mid-Summer (July/August) - After Autumn-leaf fall(November)

The following maintenance activities should be performed on as-needed (infrequent) basis, maximum 15-20 years:

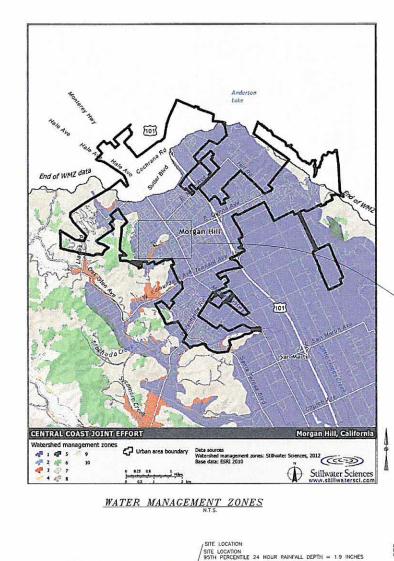
be required:
b) The surface area affected by any observed hydraulic failure should be lifted for inspection of the internal materials to identify the location and the extent of the blockage;
c) Surface materials should be lifted and replaced after brush cicaning Geolecuties may need complete replacement;
d) Subsurface layers may need cleaning and replaced of a softralled execution.

e) Removed sitts may need to be understanding the weeds;
f) Repoir ruts or deformations in pavement exceeding X-inch or 13 mm.
g) Replace broken paver units that impoir the structural integrity of the surface,
h) Replenish aggregate surface joint moterials.

GRADING AND DRAINAGE PLANS CONTROL DATA/ NOTES/ DETAILS CONCEPTUAL GRADING A STORMWATER CONTROL DA VILA MONTE CARE FACILITY

2/10/2015 14032

C-6



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MORGAN HIL

95th PERCENTILE CONTOUR LINES

### MAINTENANCE NOTES:

Pervious Walkways and Driveway Maintenance:

The maintenance activity schedule presented below is based an recommendations provided in the California Stormwater BMP Handbook-New and Redwelopment, and the Interlocking Concrete Povement Institute Manual (Second Edition).

The following maintenance activities should be performed 2-3 times per year.

- End of Winter (April)