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SANTA BARBARA • SANTA CRUZ

OFFICE OF DESIGN & CONSTRUCTION SERVICES and PHYSICAL FACILITIES

CONTRACTING SERVICES Building 439 Santa Barbara, California 93106-1030 Telephone (805) 893-3356 Fax (805) 893-8592

SENT VIA:	FAX ON THIS DATE
	HAND DELIVERY ON THIS DATE
\boxtimes	FEDERAL EXPRESS ON THIS DATE
	UNITED PARCEL SERVICE ON THIS DATE

HOLDERS OF PLANS AND SPECIFICATIONS:

North Campus Faculty Housing Phase II Project No. FM110407L/986315 Addendum No. 3

September 16, 2011

Enclosed is ADDENDUM NO. 3 to the Construction Documents on the above-captioned project.

Bid date is Thursday, September 29, 2011 at 2:30 PM to be held at:

CONTRACTING SERVICES

Facilities Management, Bldg. 439
Door #E, Reception Counter
University of California, Santa Barbara
Santa Barbara, CA 93106-1030.

Late arrivals shall be disqualified. Please allow time for unforeseen traffic delays, securing a parking permit and potential parking problems.

Greg Moore

Associate Director, Contracting Services

ADDENDUM NUMBER 3

to the

CONSTRUCTION DOCUMENTS

September 16, 2011

GENERAL

The following changes, additions or deletions shall be made to the following document(s) as Indicated; all other conditions shall remain the same.

I. SPECIFICATION

Item No.

1. <u>Table of Contents:</u> **Replace** in its entirety with attached Table of Contents, Addendum 3, which includes listings for new Section 07541-9 & Section 0951-9.

Item No.

2. <u>Table of Contents:</u> **Add** the following Sections: "Section 07541-9, Mechanically Fastened Thermoplastic Membrane Roofing, pages 1-12, Section 09651-9, Rubber Base. Pages 1-2"

Item No.

3. <u>Section 06200, Interior Finish Carpentry, Part 1 – General, 1.3 Quality Assurance:</u> **Delete** B in its entirety:
"B Standards: Woodwork Institute (WI) 'Manual of Millwork.'"

Item No.

4. Section 06415, Stone Countertops, Part 2 - Products, 2.2 Granite Countertops, A Granit Countertops (units & Recreational Building): Daltile: Add the Following first sentence 1.:

"1. Product: Granite......Giallo Veneziano G762, Santa Venetia G438."

Item No.

5. <u>Section 07541-9, Mechanically Fastened Thermoplastic Membrane Roofing:</u> **Add** in its_entirety: (See specification section attached: p.1-13).

Item No.

6. <u>Section 09651-9, Rubber Base:</u> **Add** in its entirety: (See specification section attached: p.1-2).

Item No.

7. Section 10300, Fireplaces, Part 2 – Products, 2.1 Materials, A. Prefabricated Fireplaces: Change 1. to read in its entirety

"1. Manufacturers "with outside air kit" to "Model NBV3630" by Heatilator, or equal."

II. DRAWINGS

Item No.

1. **DELETE** Sewer Improvement Plans, dated 8/1/11 sheets 1-5, in their entirety, and **REPLACE** with Sewer Improvement Plans, dated 9/9/11 sheets 1-6.

Item No.

2. **DELETE** Phase 2 Water Improvement Plans, dated 8/1/11 sheets No.s 4 - 10 in their entirety, and **REPLACE** with Phase 2 Water Improvement Plans, dated 9/12/11 sheets No. 1 - 10.

Item No.

3. **DELETE** Sheet A11.10 Architectural Interior Palette Schedules, dated 8/1/11, in its entirety, and **REPLACE** with Sheet A11.10 Architectural Interior Palette Schedules, dated 9/13/11.

Item No.

4. **DELETE** Detail 14 from Sheet No. AD5.1 Architectural Details and **REPLACE** with attached Sketch 2 of 2, dated 9/09/11.

Item No.

5. ADD Sketch 1 of 2 Addendum 3 Additional Detail 23/AD5.1 to Sheet AD5.1 Architectural Details.

Item No.

6. **DELETE** Detail 15 from Sheet AD5.1.

Note: All showers are shower pans. See specification section 15410 Part 2.2.7 for all shower pan inserts.

Item No.

7. **DELETE** note from Detail 4, Sheet AAD.1, that reads "Additional layer for sound attenuation verify location w/ acoustical consultant". **REPLACE** with note "Additional layer of 5/8" gypsum board, from floor to ceiling, for sound attenuation at all demising walls separating units".

Item No.

8. **DELETE** Sheet A10.20 <u>Recreational Building Floor Material Layout Plan</u>, dated 8/1/11. **REPLACE** with Sheet A10.20 <u>Recreational Building Floor Material Layout Plan</u>, dated 9/9/11.

Item No.

9. **ADD** Sketch 1 of 1 Addendum 3 additional detail 15/AD1.2 to Sheet AD1.2 Architectural Details.

Item No.

10. **REPLACE** 2"x4" facia board elevation with 2"x6" facia board for elevations 400B & 600B. REFER to Roof Plan sheets for roofing material.

"S" Tile use detail 1/AD1.2 & 3/AD1.2

"Flat" Tile use detail 4/AD1.2 & 5/AD1.2

Item No.

11. **DELETE** Detail 1 & 6 from Sheet No. AD5.1 Architectural Details and **REPLACE** with attached Sketches 2 of 3 and 3 of 3, dated 9/13/11.

Item No.

12. **DELETE** Sheet A11.10 dated 8/1/11. **REPLACE** with Sheet A11.10, dated 9/13/11.

Item No.

13. **DELETE** Detail 3, Sheet LCD-2. **REPLACE** with Landscape Sketch Addendum 3, page 2 of 5 Details, dated 9/911.

Item No.

14. **REVISE** Sheet LI-2 location of Irrigation Controller and Sheet LP-5 sizing of (20) Maori Queen Flax plants per Landscape Sketch Addendum 3, Sketch No. 1 of 5, dated 9/9/11.

Item No.

15. **REVISE** Detail 5 of Sheet LCD-2 per Landscape Sketch Addendum 3, Sketch No. 3 of 5, dated 9/9/11.

Item No.

16. REVISE SHRUB LEGEND, found on Sheets LP-4, LP-5, LP-6, & LP-7 per Landscape Sketch Addendum 3, Sketch No. 5 of 5, indicating plant-types to be "Owner Furnished, Contractor Installed".

Item No.

DELETE All references to "Limit of Work" and/or "Limit of Work - Phase 2" on Sheets LC-1, LC-2, LC-3, LC-7, LI-1, LI-2, LI-3, LI-4, LP-1, LP-2, LP-3, LP-4, LP-5, LP-6, & LP-7 and REPLACE with "Limit of Landscape and Irrigation Work", per Landscape Sketch Addendum 3, Sketch No. 4 of 5.

Item No.

18. Sheet LC-0, Product and Material Schedule, 2.0 Walls Fences and Masonry, Items 21 & 22, Under Categories: Materal/Model# / Color / Finish / Notes - respectively-DELETE, 'Selected by University'/'To Match Phase I Selection'/ Selected by University/ -respectively-, and REPLACE with 'Elegance Solid Privacy' / 'Woodland Select Weathered Cedar'/ 'N/A' / -respectively- & ADD, under Notes, "Post Cap Spec-External. See Landscape Sketch Addendum 3, Sketch No. 4 of 5.

Note: Or Equal, no known equal.

III SKETCHES

Item No.

Add the attached	Electrical Revisions Sketches 1-13, dated 9/9/11:
Sketch 1 of 17	J-Box AT Center of All Bedroom – General A
Sketch 2 of 17	J-Box AT Center of All Bedroom – General B
Sketch 3 of 17	Remove Extra Outlet for Future Radon Fan – General C
Sketch 4 of 17	Relocate Fut. Outlet for Radon fan - General D
Sketch 5 of 17	Provide More Lighting in Bathroom and Closet – B-5
Sketch 6 of 17	Dwelling Unit Ltg. Fixture Schedule – B-5.1
Sketch 7 of 17	Wall Sconce-Two or Three Lamps Varies at Bedrms B-5.2
Sketch 8 of 17	Cable Connection at Study – C-7
Sketch 9 of 17	Dining Room J-Box Location – D-14
Sketch 10 of 17	Cable Connection Adjacent to Fire Place – F-19
Sketch 11 of 17	Laundry Room Lighting – Bldg. 300 Series – I-28
Sketch 12 of 17	Laundry Room Light Switch Added – I-28.1
Sketch 13 of 17	Walk-in Closet Light Fixture Wattage Revised – I-30
	Sketch 1 of 17 Sketch 2 of 17 Sketch 3 of 17 Sketch 4 of 17 Sketch 5 of 17 Sketch 6 of 17 Sketch 7 of 17 Sketch 8 of 17 Sketch 9 of 17 Sketch 10 of 17 Sketch 11 of 17 Sketch 12 of 17

Item No.

2. Add the attached Plumbing Revisions Sketches 1-17, dated 9/9/11: Sketch 1 of 17 Bldg.300A 1st Floor Plumbing Plan

	Sketch 2 of 17	Bldg.300A 1 st Floor Plumbing Plan
	Sketch 3 of 17	Bldg.300AR 1st Floor Plumbing Plan
	Sketch 4 of 17	Bldg.300AR 1st Floor Plumbing Plan
er grown en		Bldg.300AX 1st Floor Plumbing Plan
		Bldg.300AX 1st Floor Plumbing Plan
	Sketch 7 of 17	Bldg.300AXR 1st Floor Plumbing Plan
	Sketch 8 of 17	Bldg.300AXR 1st Floor Plumbing Plan
	Sketch 9 of 17	Bldg.400AR 1st Floor Plumbing Plan
	Sketch 10 of 17	Bldg.400B 1st Floor Plumbing Plan
	Sketch 11 of 17	Bldg.500B 1st Floor Plumbing Plan
	Sketch 12 of 17	Bldg.600A 1st Floor Plumbing Plan
	Sketch 13 of 17	Bldg,600AR 1st Floor Plumbing Plan
	Sketch 14 of 17	Bldg.600B 1st Floor Plumbing Plan
	Sketch 15 of 17	Bldg,700A 1st Floor Plumbing Plan
	Sketch 16 of 17	Bldg.700AR 1st Floor Plumbing Plan
	Sketch 17 of 17	Rec. Bldg, Plumbing Plan

Item No.

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3.	Add the attached M	echanical Revisions Sketches 1-9, dated 9/9/11:
	Sketch 1 of 9	Building 300A Second Floor Mechanical Plan (Typical for All
		Building 300)
	Sketch 2 of 9	Building 400AR Second Floor Mechanical Plan (Typical for All
		Building 400)
	Sketch 3 of 9	Building 500B Second Floor Mechanical Plan (Typical for All
		Building 500)
	Sketch 4 of 9	Building 600A Second Floor Mechanical Plan (Typical for All
		Building 600)
	Sketch 5 of 9	Building 600A Third Floor Mechanical Plan (Typical for All
		Building 600)
	Sketch 6 of 9	Building 700A Second Floor Mechanical Plan (Typical for All
		Building 700)
	Sketch 7 of 9	Building 700A Third Floor Mechanical Plan (Typical for All
		Building 700)
	Sketch 8 of 9	Mechanical Air Supply Register Schedule

Mechanical Air Return Grille Schedule

Item No.

Add the attached Landscape Revisions Sketches 1-5, dated 9/9/11: 4.

Sketch 1 of 5 (Refer to Sheets LI-2 & LP-5)

Sketch 2 of 5 (Refer to Sheet LCD-2)

Sketch 9 of 9

Sketch 3 of 5 (Refer to Sheet LCD-2)

Sketch 4 of 5 (Refer to Sheets LC-0 & LC-5)

Sketch 2 of 5 (Refer to Sheets LP-4,-5,-6, &-7)

IV CLARIFICATIONS

Item No.

 Section 03225-2: Install vapor barrier per manufacture's recommendation, DIRECTLY UNDER SLAB, not embedded in, or under, gravel base.

Item No.

2. Sheet A11.10 has the correct information on granite types and colors.

Item No.

3. Pre-cast concrete trim specifications are found in Section 04720 Part 2.2.1.C

Item No.

4. Refer to Phase 2 Construction Exhibit, dated 8/1/11, posted on UCSB website

Item No.

5. http://facilities.ucsb.edu/contracts/bid/view.asp?id=263

This exhibit is a general synopsis of Phase II work for reference; it does not supersede the bidding documents.

Item No.

6. All easework to be installed, anchored, and attached per manufacturer's recommendations.

Item No.

7. All shower wall tile heights shall be at 80" above finished floor.

Item No.

8. All light fixtures for Units and Recreational Building are specified in Section 16500.

Item No.

9. Recreational Building Ceiling Heights are shown on Sheet A10.11.

Item No.

10. Recreational Building Trellis Details are to be followed, per Detail 18/LSW2, for lumber sizing and connections, and Detail 3/AD6.4 for design intent and waterproofing.

Item No.

11. Existing Plant Salvaging efforts have already been completed by the University.

Item No.

12. Connect all pool deck and planter drains (found on Sheet LC-5) to the 19.65 invert found on Storm Drain Main Line Plan Sheet 23 of 49, dated 8/1/11, by Fuscoe Engineering. See Note at northeast end of spa directing deck drain point of connection.

Item No.

13. At Edison Drawing, Sheet 2 of 2, SCE Job No. 0147159, Clouded Pedestol @ Pacific Drive & Pacific Court, Relocate Pedestal per sketch 1 of 5, Addendum 3, Note 2, dated 9/9/11, By Forma.

Item No.

14. At Sheet A10.11, Floor Plan Key notes, Note 24, Refer to Detail 23, Sheet AD6.2.

END OF ADDENDUM NO. 3

ADDENDUM NUMBER 3

to the

CONSTRUCTION DOCUMENTS

September 15, 2011

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5. <u>Section 07541-9, Mechanically Fastened Thermoplastic Membrane Roofing:</u> Add in its entirety: (See specification section attached: p.1-13).

UNIVERSITY OF CALIFORNIA, SANTA BARBARA NORTH CAMPUS FACULTY HOUSING, PHASE II Project No. FM110407 / 986315 SANTA BARBARA, CA

TABLE OF CONTENTS

DIVISION 00	
00010	Table of Contents
00015	List of Drawings
00017	Certification
00020	Consultant List
DIVISION 0	Section Documents Supplied by UCSB
DIVISION 01	Section Documents Supplied by UCSB
01560	Temporary Storm Water Pollution Prevention
01630	Product Options and Substitutions
01852	LEED Requirements
DIVISION 02	SITE CONSTRUCTION
02010	Subsurface Investigation
02260	Excavation Support and Protection
02300	Earthwork
02310	Landscape Fine Grading
02360	Soil Treatment
02380	Post-Tensioned Foundations
02510	Water Distribution System
02512	Sanitary Site Sewer System
02580	Electrical and Communication Structures
02620 02630	Subdrainage Site Drainage
02030	Asphalt Pavement And Surfacing
02741	Asphalt Paving And Repair
02745	Asphalt Pavement Sealer
02751	Portland Cement Concrete Pavement
02810	Irrigation System
02870	Site Furnishings
02900	Landscape Planting
DIVISION 03	CONCRETE
03225	Under Slab Vapor Barrier
03240	Reinforcing Steel For Post-Tensioned Foundations
03250	Reinforcing Steel For Post-Tensioned Foundations, Design Build
03260	Concrete Accessories
03280	Grouting Post-Tensioned Stressing End Holes
03300	Cast-In-Place Concrete
DIVISION 04	MASONRY
04220	Concrete Unit Masonry
04720	Cast Stone
DIVISION 05	METALS
05520	Metal Railings
05700	Ornamental Metal Aluminum
05720	Ornamental Handrails and Railings

TABLE OF CONTENTS 00010-1

06050 06050 06100 06181 06183 06190 06195 06200 06201 06415 06651	WOOD AND PLASTICS Fasteners And Supports Rough Carpentry Glued Laminated Timber Laminated Veneer Lumber & Parallel Strand Lumber Wood Trusses, Light Metal Plate Connected, For Roof Systems Design Build Manufactured Wood I-Joists Interior Finish Carpentry Exterior Finish Carpentry Stone Countertops Solid Surface Fabrications
07180 07180 07210 07245 07320 07541-9 07600 07610 07710 07840 07900	THERMAL AND MOISTURE PROTECTION Traffic-Bearing Roof Deck Surfacing Building Insulation Architectural Foamed Shapes Roof Tiles Mechanically Fastened Thermoplastic Membrane Roofing Flashing and Sheet Metal Sheet Metal Standing Seam Roofing Manufactured Roof Specialties Fire-stopping Joint Sealers
08210 08225 08310 08360 08560 08710 08730	DOORS AND WINDOWS Wood Doors Fiberglass Doors Access Doors and Panels Sectional Overhead Doors Vinyl Windows Door Hardware Automatic Door Operators
DIVISION 09 09220 09260 09300 09640 09650 09651-9 09680 09910	FINISHES Plaster Assemblies (Stucco) Gypsum Board Assemblies Tile - Porcelain Wood Flooring Resilient Athletic Flooring Rubber Base Carpet Paints
DIVISION 10 10155 10300 10523	SPECILITIES Toilet Compartments Fireplaces Fire Protection Specialties
DIVISION 11 11450	EQUIPMENT Residential Appliances
DiVISION 12 12490	FURNISHINGS Window Treatments
DIVISION 13 · 13151 13152 13153 13154	SPECIAL CONSTRUCTION Swimming Pool Excavation Swimming Pool Concrete Swimming Pool Shotcrete Swimming Pool Ceramic Tile

TABLE OF CONTENTS 00010-2

13155	Swimming Pool Plaster
13156	Swimming Pool Equipment
13157	Swimming Pool Mechanical
13158	Swimming Pool Electrical
13850	Fire Detection & Alarm
13900	Fire Suppression

DIVISIONS 14

Not Used

DIVISION 15	MECHANICAL
15060	Hangers And Supports
15070	Mechanical Sound, Vibration, And Seismic Control
15075	Mechanical Identification
15080	Mechanical Insulation
15140	Domestic Water Piping
15150	Sanitary Waste And Vent Piping
15195	Gas Piping
15410	Plumbing Fixtures
15480	Domestic Water Heaters
15530	Furnaces
15540	Fuel-Fired Heaters
15550	Breeching, Chimneys, And Stacks
15810	Ducts
15820	Duct Accessories
15830	Fans
15850	Air Outlets And Inlets
15860	Air Cleaning Devices
15905	HVAC Instrumentation
15940	Sequence Of Operation
15950	Testing, Adjusting, And Balancing
DIVISION 16	ELECTRICAL
16050	Basic Electrical Materials And Methods
16060	Grounding And Bonding
16080	Electrical Testing
16120	Conductors And Cables
16130	Raceways And Boxes
16140	Wiring Devices
16145	Lighting Control Devices
16211	Electricity Metering
16441	Switchboards
16442	Panelboards
16500	Lighting Fixtures

END OF TABLE OF CONTENTS

SECTION 07541-9

MECHANICALLY FASTENED THERMOPLASTIC MEMBRANE ROOFING

PART 1 - GENERAL CONDITIONS

1.01 DESCRIPTION

A. Scope

- 1. The extent of the PVC roofing system work is defined to include roofing, flashing, and roofing accessories integrally related to roofing installation.
- 2. Contractor shall coordinate with all other trades that directly influence the roof system application to provide a watertight installation of all roof membrane and roof flashings.
- Contractor shall verify condition of substrate, curbs, penetrations, flashings, equipment supports, etc. and shall notify Architect of any discrepancies in the scope of work as shown on the drawings prior to commencement of roofing.

B. System Description

- 1. Over the plywood deck, install a ¼" Securock Glass Mat protection board. The protection board is to be mechanically fastened in accordance with the manufacturers written instructions and with manufacturer approved fasteners and plates
- 2. Over the 1/4" Securock protection board, install a new mechanically fastened Sika Samafil 60 mil PVC membrane. The color of the membrane is to be "Energy Smart" white. The new roof system shall be installed in accordance with this specification and details.
- 3. Parapet walls are to be wrapped with PVC roofing membrane adhered using a manufacturer's approved flashing adhesive.
- 4. Provide unit cost to install Walkway Tread as required by the University's Representative.
- C. Upon successful completion of work the following warranties may be obtained:
 - 1. PVC Manufacturer's Warranty
 - 2. Roofing Contractor Warranty

1.02 QUALITY ASSURANCE

- A. This roofing system shall be applied only by a Roofing Contractor authorized by the Roofing Manufacturer prior to bid.
- B. Upon completion of the installation and the delivery to the Manufacturer by the Applicator of a certification that all work has been done in strict accordance with the contract specifications and the Manufacturer's requirements, an inspection shall be made by a Technical Representative of the Manufacturer to review the installed roof system.
- C. There shall be no deviation made from the Project Specification or the approved shop drawings without prior written approval by the University, the University's Representative and the Manufacturer.
- E. All work pertaining to the installation of PVC membrane and flashings shall only be completed by Applicator personnel trained and authorized by the Manufacturer in those procedures.
- F. Membrane to have no formulation changes in the last (10) years as certified by the manufacturer.
- G. Manufacturer's warranty shall have "No Dollar Limit" for the replacement of defective materials and/or labor and shall not contain any exclusion for ponding water.

- H. Membrane Manufacturer shall submit; third-party test data documenting the proposed equal has a membrane "polymer thickness" within two (2) mils of the specified mil thickness, ASTM (+/-) mil tolerances are not acceptable.
- Membrane shall have a minimum of twenty-two (22) mils of waterproofing polymers above the reinforcements as documented by a third party source.
- J. Manufacturer must have an established program for recycling membrane at the end of its useful life. Must provide 3 (three) instances in which they have done so.
- K. Membrane manufacturer to confirm in writing that they directly manufacture the roofing membrane (private labeled membranes are not acceptable).

1.03 SUBMITTALS

At the time of bidding, the Applicator shall submit to the University (or Representative) the following:

- A. Copies of Specification.
- B. Samples of each primary component to be used in the roof system and the manufacturer's current literature for each component.
- C. Sample copy of Manufacturer's warranty.
- D. Sample copy of Applicator's warranty.
- E. Certifications by manufacturers of roofing and insulating materials that all materials supplied comply with all requirements of the identified ASTM and other industry standards or practices.
- F. Certification from the Applicator that the system specified meets all identified code and insurance requirements as required by the Specification.
- G. Material Safety Data Sheets (MSDS)

1.04 CODE REQUIREMENTS

The applicator shall submit evidence that the proposed roof system meets the requirements of the local building code and has been tested and approved or listed by the following test organizations. These requirements are minimum standards and no roofing work shall commence without written documentation of the system's compliance, as required in the "Submittals" section of this specification.

- A. Factory Mutual Research Corporation (FM) Norwood, MA
 - 1. Class 1-90
- B. Underwriters Laboratories, Inc. Northbrook, IL
 - 2. Class A assembly

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All products delivered to the job site shall be in the original unopened containers or wrappings bearing all seals and approvals.
- B. Handle all materials to prevent damage. Place all materials on pallets and fully protect from moisture.

- C. Membrane rolls shall be stored lying down on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability.
- D. As a general rule all adhesives shall be stored at temperatures between 40° F and 80° F. Read instructions contained on adhesive canister for specific storage instructions.
- E. All flammable materials shall be stored in a cool, dry area away from sparks and open flames. Follow precautions outlined on containers or supplied by material manufacturer/supplier.

1.06 JOB CONDITIONS

- A. Roofing materials may be installed under certain adverse weather conditions but only after consultation with the Manufacturer, as installation time and system integrity may be affected.
- B. Only as much of the new roofing as can be made weathertight each day, including all flashing and detail work, shall be installed. All seams shall be heat welded before leaving the job site that day.
- C. All surfaces to receive new protection board, membrane or flashings shall be dry. Should surface moisture occur, the Applicator shall provide the necessary equipment to dry the surface prior to application.
- D. All new and temporary construction, including equipment and accessories, shall be secured in such a manner as to preclude wind blow-off and subsequent roof or equipment damage.
- E. Uninterrupted waterstops shall be installed at the end of each day's work and shall be completely removed before proceeding with the next day's work. Waterstops shall not emit dangerous or unsafe fumes and shall not remain in contact with the finished roof as the installation progresses. Contaminated membrane shall be replaced at no cost to the University.
- F. The Applicator is cautioned that certain roofing membranes are incompatible with asphalt, coal tar, heavy oils, roofing cements, creosote and some preservative materials. Such materials shall not remain in contact with PVC membranes. The Applicator shall consult the PVC Manufacturer regarding compatibility, precautions and recommendations.
- G. Arrange work sequence to avoid use of newly constructed roofing as a walking surface or for equipment movement and storage. Where such access is absolutely required, the Applicator shall provide all necessary protection and barriers to segregate the work area and to prevent damage to adjacent areas. A substantial protection layer consisting of plywood over 9 oz. felt or plywood over insulation board shall be provided for all new and existing roof areas that receive rooftop traffic during construction.
- H. Prior to and during application, all dirt, debris and dust shall be removed from surfaces by vacuuming, sweeping, blowing with compressed air and/or similar methods.
- The Applicator shall follow all safety regulations as required by OSHA and any other applicable authority having jurisdiction.
- J. All new roofing waste material (i.e., scrap roof membrane, empty cans of adhesive) shall be immediately removed from the site by the Applicator and properly transported to a legal dumping area authorized to receive such material.
- K. The Applicator shall take precautions that storage and/or application of materials and/or equipment does not overload the roof deck or building structure.

- L. Flammable adhesives and deck primers shall not be stored and not be used in the vicinity of open flames, sparks and excessive heat.
- M. All rooftop contamination that is anticipated or that is occurring shall be reported to the roofing Manufacturer to determine the corrective steps to be taken.
- N. The Applicator shall verify that all roof drain lines are functioning correctly (not clogged or blocked) before starting work. Applicator shall report any such blockages in writing (letter copy to roofing Manufacturer) to the University's Representative for corrective action prior to the installation of the PVC roof system.
- O. Site cleanup, including both interior and exterior building areas that have been affected by construction, shall be completed to the University's satisfaction.
- P. The PVC membrane shall not be installed under the following conditions without consulting the Manufacturer's Technical Department for precautionary steps:
 - 1. The roof assembly permits interior air to pressurize the membrane underside.
 - Any exterior wall has 10% or more of the surface area comprised of opening doors or windows.
 - 3. The wall/deck intersection permits air entry into the wall flashing area.
- Q. Protective wear shall be worn when using solvents or adhesives or as required by job conditions.
- R. PVC membranes are slippery when wet or covered with snow, frost, or ice. Working on surfaces under these conditions is hazardous. Appropriate safety measures must be implemented prior to working on such surfaces. Always follow OSHA and other relevant fall protection standards when working on roofs.

1.07 BIDDING REQUIREMENTS

A. Pre-Bid Meeting:

 A pre-bid meeting shall be held with the University's Representative and involved trades to discuss all aspects of the project. The Applicator's field representative or roofing foreman for the work shall be in attendance. Procedures to avoid rooftop damage by other trades shall be determined.

1.08 WARRANTIES

- A. Roofing Manufacturer 20 Year System Warranty
 - 1. Upon successful completion of the work to The Manufacturer's satisfaction and receipt of final payment, the Manufacturer's 20 Year NDL System Warranty shall be issued.
- B. Applicator/Roofing Contractor 2 Year Warranty
 - 1. The Applicator shall supply the University with a separate 2 year workmanship warranty. In the event any work related to roofing, flashing, or metal is found to be within the Applicator warranty term, defective or otherwise not in accordance with the Contract Documents, the Applicator shall repair that defect at no cost to the University. The Applicator's warranty obligation shall run directly to the University, and a copy shall be sent to the Manufacturer.
- C. University Responsibility
 - 1. University shall notify both the Manufacturer and the Applicator of any leaks as they occur during the time period when both warranties are in effect.

PART 2 - PRODUCTS

2.01 GENERAL

A. The basis of design for the roof system is Sika Sarnafil.

2.02 MEMBRANE

- A. Sarnafil S327 polyester reinforced membrane with a lacquer coating.
- B. Membrane shall conform to ASTM D4434 (latest version), "Standard for Polyvinyl Chloride Sheet Roofing," Classification: Type III.
 - 1. Sarnafil \$327, 60 mil, thermoplastic membrane with polyester reinforcement.
- C. Certified Polymer Thickness
 - Membrane manufacturer is to certify that the polymer thickness is +/- 2 mils of the thickness specified. Certification is to be signed by the membrane manufacturer's quality control manager. ASTM +/- tolerance for membrane thickness is not accepted.
- D. Color of Membrane
 - 1. "Energy Smart" white, initial reflectivity of 0.83, initial emissivity 0.90, solar reflective index (SRI) of >104 and aged reflectivity of <0.50.

2.03 FLASHING MATERIALS

- A. Wall/Curb Flashing
 - 1. Flashing Membrane
 - A fiberglass reinforced membrane adhered to approved substrate using VOC compliant adhesive.
 - 2. PVC Clad
 - A PVC-coated, heat-weldable sheet metal capable of being formed into a variety of shapes and profiles. PVC clad is a 25 gauge, G90 galvanized metal sheet with a 20 mil unsupported PVC membrane laminated on one side. The dimensions of PVC clad are 4 ft x 10 ft.
- B. Miscellaneous Flashing
 - 1. Reglet Termination Bar
 - A heavy-duty, extruded aluminum flashing termination reglet used at walls and large curbs. Reglet termination ber is produced from 6063-T5, 0.10 inch 0.12 inch thick extruded aluminum. The Reglet has a 2½ inch deep profile, and is provided in 10 foot lengths. Use prefabricated reglet mitered inside and outside corners where walls intersect.
 - 2. PVC Stack
 - A prefabricated vent pipe flashing made from 0.048 inch (48 mil) thick G410 membrane. Available in five different sizes.
 - 3. Prefabricated corners Universal
 - Prefabricated outside and inside flashing corners made of 0.060 inch (60 mil) thick membrane that are heat-welded to membrane or clad base flashings. Available in one size which accommodate both inside and outside corners. Can be cut into one inside or one outside corner.
 - 4. Multi-Purpose Sealant
 - A proprietary sealant used at flashing terminations. Consult Product Data Sheet for additional information.
 - VOC Compliant Solvent Based Adhesive
 A VOC compliant adhesive used to attach membrane to flashing substrate.

2.04 OVERLAYMENT BOARD

- A. Securock Glass Mat
 - 1. A siliconized gypsum, fire-tested hardboard with glass-mat facers. Securock is provided in a 4×8 ft board size and in a thickness of $\frac{1}{2}$.

2.05 ATTACHMENT COMPONENTS

- A. Membrane Fastener: A #15, heavy-duty, corrosion-resistant fastener used with seam plate to attach membrane to the appropriate roof deck. Membrane fastener has a shank diameter of approximately 0.21 inch and the thread diameter is approximately 0.26 inch. The driving head has a diameter of approximately 0.435 inch and is #3 Phillips design for positive engagement.
- B. Seam Plate: Seam plates are high strength, linear plate used with a # 15 fastener to attach the roof membrane to the appropriate roof decks. Seam plate is an 18 gauge, 2 inch by 3-3/4 inch corrosion resistant steel plate.
- C. Membrane fastener: A #21, A specially designed, heavy-duty, corrosion-resistant fastener used with a polymeric batten strip to clamp roof membrane to roof decks. #21 fasteners may also be used to secure and polyester reinforced roof membrane to roof decks. Acceptable substrates include 22-24 gauge steel and 1/2-5/8 wood roof decks. The #21 has a shank diameter of approximately 0.26 inch and a thread diameter of approximately 0.33 inch. The driving head has a diameter of approximately 0.66 inch with a #3 Phillips recess for positive engagement and simplicity of application.
- D. #21 Seam Plate: A large diameter high strength plate used with #21 fasteners to attach the 120 inches PVC roof membrane to 1/2-5/8 wood roof decks. This is a 20 gauge, 3.5 inch, round corrosion resistant steel plate.
- E. #12 Protection board Fastener: A #12 corrosion-resistant fastener used with protection board plates to attach protection boards to steel or wood roof decks. #12 Fasteners have a modified buttress thread, a shank diameter of approximately 0.168 inch and a thread diameter of approximately 0.214 inch. The driving head has a diameter of approximately 0.435 inch with a #3 Phillips recess for positive engagement. Consult Product Data Sheet for additional information.
- F. Protection board plate: Used with various fasteners to attach protection boards to roof deck. The protection board plate is a 3 inch square or round, 26 gauge stamping of SAE 1010 steel with an AZ 55 Galvalume coating.
- G. Peel Stop: An extruded aluminum, low profile bar used with certain fasteners to attach to the roof deck or to walls/curbs at terminations, penetrations and at incline changes of the substrate. Peel stop is a 1 inch wide, flat aluminum bar 1/8 inch thick that has predrilled holes every 6 inches on center.

2.06 WALKWAY PROTECTION

A. PVC Walkway: A polyester reinforced, 0.096 inch, weldable membrane with surface embossment. Used as a protection layer from rooftop traffic. PVC Walkway is supplied in rolls of 39.3 inches wide and 32.8 feet long.

2.07 MISCELLANEOUS ACCESSORIES

- A. Aluminum Tape: A 2 inch wide pressure-sensitive aluminum tape used as a separation layer between small areas of asphalt contamination and the membrane and as a bond-breaker under the coverstrip at the PVC Clad joints.
- B. PVC Cleaner: A high quality solvent cleaner used for the general cleaning of residual asphalt, scuff marks, etc., from the membrane surface. PVC Cleaner is also used daily to clean seam areas prior to hot-air welding in tear off or dirty conditions or if the membrane is not welded the same day it is unrolled.
- C. Multi-Purpose Tape: A high performance sealant tape used with metal flashings as a preventive measure against air and wind blown moisture entry.

2.08 SEALANTS

- A. Multi-Purpose Sealant (for termination details).
- Two Part urethane sealant.
- C. Depending on substrates, the following sealants are options for temporary overnight tie-ins:
 - 1. Two Part urethane sealant.
 - 2. Multiple layers of roofing cement and felt.
 - 3. Spray-applied, water-resistant urethane foam.
 - 4. Mechanical attachment with rigid bars and compressed sealant.

2.09 MISCELLANEOUS FASTENERS AND ANCHORS

All fasteners, anchors, nails, straps, bars, etc. shall be post-galvanized steet, aluminum or stainless steet. Mixing metal types and methods of contact shall be assembled in such a manner as to avoid galvanic corrosion. Fasteners for attachment of metal to masonry shall be expansion type fasteners with stainless steel pins. All concrete fasteners and anchors shall have a minimum embedment of 1½ inch and shall be approved for such use by the fastener manufacturer. All miscellaneous wood fasteners and anchors used for flashings shall have a minimum embedment of 1 inch and shall be approved for such use by the fastener manufacturer.

PART 3 - EXECUTION

3.01 PRE-CONSTRUCTION CONFERENCE

- A. The Applicator, University's Representative/Designer and Manufacturer(s) shall attend a preconstruction conference.
- B. The meeting shall discuss all aspects of the project including but not limited to:
 - 1. Safety
 - 2. Set up
 - 3. Construction schedule
 - 4. Contract conditions
 - Coordination of the work

3.02 SUBSTRATE PREPARATION

The roof deck and existing roof construction must be structurally sound to provide support for the new roof system. The Applicator shall load materials on the rooftop in such a manner as to eliminate risk of deck overload due to concentrated weight. The University's Representative shall ensure that the roof deck is secured to the structural framing according to local building code and in such a manner as to resist all anticipated wind loads in that location.

 Reroofing with Removal of Existing Bitumen Roofing General Criteria

All existing roofing, base flashing, deteriorated wood blocking or deteriorated metal flashings shall be removed. Remove only that amount of roofing and flashing which can be made weathertight with new materials during a one-day period or before the onset of inciement weather.

- 1. Wood Deck:
 - a) FM Approved Wood Deck All rotted or deteriorated wood shall be removed and replaced. The deck thickness shall be 2 inch minimum lumber or ¾ inch plywood. The deck shall conform to FM's requirements for Class 1 wood decks. Deck attachment shall

- conform to FM and local code requirements. Fastener heads shall be recessed into the wood surface.
- b) Non-FM Approved Wood Deck All rotted or deteriorated wood shall be removed and replaced. The deck thickness shall be 1-1/2 inch lumber or 15/32 plywood or match existing deck if greater. Deck type and attachment shall conform to local code requirements. Fastener heads shall be recessed into the wood surface.

3.03 SUBSTRATE INSPECTION

- A. A dry, clean and smooth substrate shall be prepared to receive the PVC roof system.
- B. The Applicator shall inspect the substrate for defects such as excessive surface roughness, contamination, structural inadequacy, or any other condition that will adversely affect the quality of work.
- C. The substrate shall be clean, smooth, dry, and free of flaws, sharp edges, loose and foreign material, oil and grease. Roofing shall not start until all defects have been corrected.
- D. All roof surfaces shall be free of moisture.
- E. Roofing membrane shall be applied over compatible and accepted substrates only.

3.04 PROTECTION BOARD INSTALLATION

- Protection board shall be installed according to manufacturer's instructions.
- B. Protection board shall be neatly cut to fit around penetrations and projections.
- C. Do not install more protection board than can be covered with PVC membrane by the end of the day or the onset of inclement weather.

D. Mechanical Attachment

- 1. Protection board shall be mechanically fastened to the deck with approved fasteners and plates at a rate according to the protection board manufacturer's, FM's and roofing Manufacturer's recommendations for fastening rates and patterns. The quantity and locations of the fasteners and plates shall also cause the protection boards to rest evenly on the roof deck/substrate so that there are no significant and avoidable air spaces between the boards and the substrate. Each protection board shall be installed tightly against the adjacent boards on all sides.
- Fasteners are to be installed consistently in accordance with fastener manufacturer's recommendations. Fasteners are to have minimum penetration into structural deck recommended by the fastener manufacturer and roofing Manufacturer.
- Use fastener tools with a depth locator and torque-limiting attachment as recommended or supplied by fastener manufacturer to ensure proper installation.

3.05 INSTALLATION OF MEMBRANE

The surface of the substrate shall be inspected prior to installation of the PVC roof membrane. The substrate shall be clean, dry, free from debris and smooth with no surface roughness or contamination. Broken, delaminated, wet or damaged protection boards shall be removed and replaced.

A. General

- 1. PVC membrane is to be attached with manufacturer approved fasteners and plates according to Manufacturer's and Factory Mutual's requirements.
- 2. Membrane overlaps shall be shingled with the flow of water where possible.

- Full-width PVC rolls shall be fastened perpendicular to the direction of the wood plank where
 possible.
- 4. Tack welding of full or half-width rolls for purposes of temporary restraint during installation is not permitted. Consult Manufacturer's Technical Department for further information.

B. Perimeter and Corner Areas

1. Over the properly installed and prepared substrate surface, half-width PVC rolls are to be installed either parallel or perpendicular to the entire perimeter edge according to FM guidelines. The number of adjacent half-rolls will be determined by building height and width and other conditions according to FM guidelines and the Manufacturer's Technical Department. Fasteners and Plates are installed along the edge of the membrane on the fastening line at a spacing determined by the roofing Manufacturer and the University's Representative/Designer. The #21 fasteners are held-back 1-1/4 inch from the outer edge of the membrane, the #15 fasteners are held back 1 inch. The adjacent half-roll is positioned to overlap the fastened edge of the first half-roll by 7 inches for the #21 fastener and 5-1/2 inches for the #15 fastener in accordance with the overlap lines marked on its edge. The 5-1/2 inch overlap will allow the top membrane to extend 2-1/2 inches past the fastener for heat-welding. The 7 inch overlap will allow the top membrane to extend 2-1/4 inches past the fastener for heat-welding. Fasteners shall clamp the PVC membrane tightly to the substrate. In corner areas where perimeter half-rolls intersect, add rows of fasteners and plates over the top the half-rolls and weld a coverstrip above them for watertightness. See Detail Drawings.

Notes

- a) Perimeter area is defined as the outer boundary of the roof. If the roof is broken into different levels, each roof area shall be treated as an individual roof with its outer boundary being treated as a perimeter. Typically, internal expansion joints and firewalls are not considered to be full perimeters. Refer to Factory Mutual's Data Sheet 1-28 for more information.
- b) The ridge area is defined as the high point in the roof area formed by two intersecting planes. When the sum of the slopes is a minimum of 4 inches in 12 inches (30 degrees), each side of the ridge shall be treated as a perimeter area.
- 2. Hot-air weld overlaps according to the Manufacturer's requirements. Seam test cuts shall be taken at least 3 times per day.

C. Interior Area

- 1. Over the properly installed and prepared substrate surface, full-width rolls are to be installed perpendicular to the wood plank panels. Fasteners and plates are installed along the edge of the membrane on the fastening line at a spacing determined by the roofing manufacturer and the University's Representative/Designer. The #21 is held back 1-1/4 inch from the outer edge of the membrane, the #15 is held back 1 inch. The adjacent full-roll is positioned to overlap the fastened edge of the first full-roll by 5-1/2 inches for the #15 fastener. The adjacent full-roll is positioned to overlap the fastened edge of the first full-roll by 7 inches in accordance with the overlap lines marked on its edge. The 5-1/2 inch overlap will allow the top membrane to extend 2-1/2 inches past the fastener for heat welding. The 7 inch overlap will allow the top membrane to extend 2-1/4 inches past the fastener for heat-welding. Fasteners shall clamp the membrane tightly to the substrate. See Detail Drawings.
- 2. Hot-air weld overlaps according to Manufacturer's recommendations. Seam test cuts shall be taken at least 3 times per day.

D. Securement Around Rooftop Penetrations

Around all perimeters, at the base of walls, drains, curbs, vent pipes, or any other roof
penetrations, fasteners and plates shall be installed according to perimeter rate of
attachment. Fasteners shall be installed according to the manufacturer's instructions.
Fasteners shall be installed using the fastener manufacturer's recommended torque-sensitive
fastening tools with depth locators. Fasteners shall clamp the membrane tightly to the
substrate.

2. Membrane flashings shall extend 2-1/4 inches past the fasteners and be hot-air welded to the deck membrane.

3.06 HOT-AIR WELDING OF SEAM OVERLAPS

A. General

- 1. All seams shall be hot-air welded. Seam overlaps should be 3 inches wide when automatic machine-welding and 4 inches wide when hand-welding, except for certain details.
- Welding equipment shall be provided by or approved by the Manufacturer. All mechanics
 intending to use the equipment shall have successfully completed a training course provided
 by the Manufacturer's Technical Representative prior to welding.
- 3. All membrane to be welded shall be clean and dry.

B. Hand-Welding

- 1. Hand-welded seams shall be completed in two stages. Hot-air welding equipment shall be allowed to warm up for at least one minute prior to welding.
- 2. The back edge of the seam shall be welded with a narrow but continuous weld to prevent loss of hot air during the final welding.
- 3. The nozzle shall be inserted into the seam at a 45 degree angle to the edge of the membrane. Once the proper welding temperature has been reached and the membrane begins to "flow," the hand roller is positioned perpendicular to the nozzle and rolled lightly. For straight seams, the 1-1/2 inch wide nozzle is recommended for use. For corners and compound connections, the 3/4 inch wide nozzle shall be used.

C. Machine Welding

- 1. Machine welded seams are achieved by the use of the Manufacturer's automatic welding equipment. When using this equipment, Manufacturer's instructions shall be followed and local codes for electric supply, grounding and over current protection observed. Dedicated circuit house power or a dedicated portable generator is recommended. No other equipment shall be operated simultaneously off the generator.
- 2. Metal tracks may be used over the deck membrane and under the machine welder to minimize or eliminate wrinkles.

D. Quality Control of Welded Seams

1. The Applicator shall check all welded seams for continuity using a rounded screwdriver. Visible evidence that welding is proceeding correctly is smoke during the welding operation, shiny membrane surfaces, and an uninterrupted flow of dark grey material from the underside of the top membrane. On-site evaluation of welded seams shall be made daily by the Applicator at locations as directed by the University's Representative or Manufacturer's representative. One inch wide cross-section samples of welded seams shall be taken at least two times a day. Correct welds display failure from shearing of the membrane prior to separation of the weld. Each test cut shall be patched by the Applicator at no extra cost to the University.

3.07 MEMBRANE FLASHINGS

All flashings shall be installed concurrently with the roof membrane as the job progresses. No temporary flashings shall be allowed without the prior written approval of the University's Representative and roofing manufacturer. If any water is allowed to enter under the newly completed roofing, the affected area shall be removed and replaced at the Applicator's expense. Flashing shall be adhered to compatible, dry, smooth, and solvent-resistant surfaces. Use caution to ensure adhesive fumes are not drawn into the building.

A. VOC Compliant Flashing Adhesive

 Over the properly installed and prepared flashing substrate, the flashing adhesive shall be applied according to instructions found on the Product Data Sheet. The flashing adhesive shall be applied in smooth, even coats with no gaps, globs or similar inconsistencies. Only

- an area which can be completely covered in the same day's operations shall be flashed. The bonded sheet shall be pressed firmly in place with a hand roller.
- No adhesive shall be applied in seam areas that are to be welded. All panels of membrane shall be applied in the same manner, overlapping the edges of the panels as required by welding techniques.
- B. Install Peel stop according to the Detail Drawings with approved fasteners into the structural deck at the base of parapets, walls and curbs. Peel stop is required by the Manufacturer at the base of all tapered edge strips and at transitions, peaks, and valleys according to the Manufacturer's details.
- C. The Manufacturer's requirements and recommendations and the specifications shall be followed.

 All material submittals shall have been accepted by the Manufacturer prior to installation.
- D. All flashings shall extend a minimum of 8 inches above roofing level unless otherwise accepted in writing by the University's Representative and the Manufacturer's Technical Department.
- E. All flashing membranes shall be consistently adhered to substrates. All interior and exterior corners and miters shall be cut and hot-air welded into place. No bitumen shall be in contact with the PVC membrane.
- F. All flashing membranes shall be mechanically fastened along the counter-flashed top edge with Peel stop at 6-8 inches on center.
- G. Membrane flashings shall be terminated according to the Manufacturer's recommended details.
- H. All flashings that exceed 30 inches in height shall receive additional securement. Consult the Manufacturer's Technical Department for securement methods.

3.08 METAL FLASHINGS

- A. Metal details, fabrication practices and installation methods shall conform to the applicable requirements of the following:
 - Factory Mutual Loss Prevention Data Sheet 1-49 (latest issue).
 - Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) latest issue.
- B. Metal, other than that provided by the Manufacturer, is not covered under the Manufacturer's warranty.
- C. Complete all metal work in conjunction with roofing and flashings so that a watertight condition exists daily.
- D. Metal shall be installed to provide adequate resistance to bending to allow for normal thermal expansion and contraction.
- E. Metal joints shall be watertight.
- F. Metal flashings shall be securely fastened into solid wood blocking. Fasteners shall penetrate the wood nailer a minimum of 1 inch.
- G. Airtight and continuous metal hook strips are required behind metal fascias. Hook strips are to be fastened 12 inches on center into the wood nailer or masonry wall.
- H. Counter flashings shall overlap base flashings at least 4 inches.

 Hook strips shall extend past wood nailers over wall surfaces by 1-1/2 inch minimum and shall be securely sealed from air entry.

3.09 PVC CLAD METAL BASE FLASHINGS/EDGE METAL

- A. All flashings shall be installed concurrently with the roof membrane as the job progresses. No temporary flashings shall be allowed without the prior written approval of the University's Representative and the Manufacturer. If any water is allowed to enter under the newly completed roofing due to incomplete flashings, the affected area shall be removed and replaced at the Applicator's expense.
- B. PVC clad metal flashings shall be formed and installed per the Detail Drawings.
- C. All metal flashings shall be fastened into solid wood nailers with two rows of post galvanized flat head annular ring nails, 4 inches on center staggered. Fasteners shall penetrate the nailer a minimum of 1 inch.
- D. Metal shall be installed to provide adequate resistance to bending and allow for normal thermal expansion and contraction.
- E. Adjacent sheets of PVC clad shall be spaced ¼ inch apart. The joint shall be covered with 2 inch wide aluminum tape. A 4 inch minimum wide strip of PVC flashing membrane shall be hot-air welded over the joint. Exercise caution at perimeter of roof. Workers shall follow OSHA safety procedures.

3.10 WALKWAY INSTALLATION

A. PVC Walkway

Roofing membrane to receive PVC Walkway shall be clean and dry. Place chalk lines on deck sheet to indicate location of Walkway. Apply a continuous coat of VOC Compliant flashing adhesive to the deck sheet and the back of Walkway in accordance with the Manufacturer's technical requirements and press Walkway into place with a water-filled, foam-covered lawn roller. Clean the deck membrane in areas to be welded. Hot-air weld the entire perimeter of the Walkway to the PVC deck sheet. Check all welds with a rounded screwdriver. Re-weld any inconsistencies. Important: Check all existing deck membrane seams that are to be covered by Walkway with rounded screwdriver and reweld any inconsistencies before Walkway installation.

3.11 TEMPORARY CUT-OFF

All flashings shall be installed concurrently with the roof membrane in order to maintain a watertight condition as the work progresses. All temporary waterstops shall be constructed to provide a 100% watertight seal. The stagger of the board joints shall be made even by installing partial panels of boards. The new membrane shall be carried into the waterstop. The waterstop shall be sealed to the deck and/or substrate so that water will not be allowed to travel under the new or existing roofing. The edge of the membrane shall be sealed in a continuous heavy application of sealant as described in Section 2.08. When work resumes, the contaminated membrane shall be cut out. All sealant, contaminated membrane, insulation fillers, etc. shall be removed from the work area and properly disposed of off site. None of these materials shall be used in the new work

If inclement weather occurs while a temporary waterstop is in place, the Applicator shall provide the labor necessary to monitor the situation to maintain a watertight condition.

If any water is allowed to enter under the newly-completed roofing, the affected area shall be removed and replaced at the Applicator's expense.

3.12 COMPLETION

Prior to demobilization from the site, the work shall be reviewed by the University's Representative and the Applicator. All defects noted and non-compliances with the Specifications or the recommendations of the Manufacturer shall be itemized in a punch list. These items must be corrected immediately by the Applicator to the satisfaction of the University's Representative and the Manufacturer prior to demobilization.

All Warranties referenced in this Specification shall have been submitted and have been accepted at time of contract award.

END OF SECTION

SECTION 09651-9

RUBBER BASE

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 RELATED SECTIONS

A. 09650 Resilient Athletic Flooring

1.03 SUBMITTALS

- A. Product Data: Manufacturer's published literature for each resilient accessory.
- B. Certificates: For fire-rated materials and ADA compliance.
- C. Samples: Linear materials.

1.04 PROJECT SITE CONDITIONS

- A. Store at job site in a dry place at least 48 hours before installation.
- B. Install only when room temperature is within range specified by manufacturer. Maintain temperature until 24 hours after completion.

PART 2 PRODUCTS

2.01 MANUFACTURE

A. Provide products produced by Burke Flooring.

2.02 WALL BASE

- A. BurkeBase Type TS Thermoset Rubber Base:
 - 1. Molded Thermoset (vulcanized) rubber, 1/8 in. thickness, satin finish; ASTM F1861, Type TS, Group 1, Styles A & B. Available in pre-molded corners.
 - 2. Product: BurkeBase 1/8 in. Rubber Base Type TS
 - 3. Color: TBD. Select from manufacturer's standard color array.
 - 4. Profile: Cove
 - 5. Size: 6 in.

B. Adhesive Physical Properties:

Use adhesives as specified by manufacturer. Use a flexible non-solvent acrylic wall base adhesive or equal unless other types of adhesives are recommended by manufacturer.

RUBBER BASE 09651-9-1

PART 3 EXECUTION

3.01 RESILIENT WALL BASE INSTALLATION

- A. Apply wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- B. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- C. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- Do not stretch wall base during installation.
- E. On masonry surfaces or other similar irregular substrates, fill voids along top edge of wall base with manufacturer's recommended adhesive filler material.
- F. Pre-molded Corners: Install pre-molded corners before installing straight pieces.
- G. Job-Formed Corners:
 - 1. Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration (whitening) at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.
 - 2. Inside Corners: Use straight pieces of maximum lengths possible. Form by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

3.02 CLEANING

- A. After installation, remove excessive adhesive pursuant to resilient material manufacturer's published instructions.
- B. Clean resilient materials pursuant to manufacturer's published instructions.

Burke Flooring Materials Maintenance Methods

Many products are available that can do a good job of cleaning and polishing rubber wall base. Specific products cannot be recommended since Burke has no control over their manufacture or application. Consult manufacturers, suppliers and janitorial services as to the suitability of a specific product for rubber wall base maintenance.

A. Wait several days, at least 48 hours, after installation before cleaning a new installation. This allows time for the wall base to bond firmly. During this period the wall base should be protected against traffic.

END OF SECTION

RUBBER BASE 09651-9-2



Newport Beach Office: 20167 9M Birch Street, Suite 100 Newport Beach, California 92660 (949) 152-0601 Telephone (949) 152-1555 Facsimile SHEET INFORMATION
ADDENDUM 3
ELECTRICAL RESPONSE
PAGE I OF I3

DATE: SEPTE SER S, 2011

J-BOX AT CENTER OF ALL BEDROOM

SKETCH NO.

GENERAL A

General comment:

Bedroom J-box: Frovide j-box, listed for ceiling suspended fan support, located at center of bedroom with dual switch (dimmer switch for light and fan switch) at door for future fan light combo by tenant. See sketch general B for detail-Typical for all type of unit.

Add to the bedrooms listed below:

Building 400AR

add to all bedrooms at units 4.0R and 5.0R

Building 400B

add to all bedrooms at units 4D and 5D

Building 500B

add to all bedroome at unit 4.0.

Building 600A

add to bedroom (office), 2, 3 at unit 4.1 and bedroom 2, 3(study)

at unit 5.),

Building 600B

add to bedroom (office), 2, 3 at unit 4.1 and bedroom 2, 3(study)

at unit 5.1.

Building 600AR

add to bedroom (office), 2, 3 at unit 4.IR and bedroom 2, 3(study)

at unit 5.IR

Building 100AR

add to main bedroom and bedroom 2 at units 4.0R.



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ADDENDIM 3
ELECTRICAL RESPONSE
PAGE 7 OF B

DATE: SEPTE BER 9, 2011

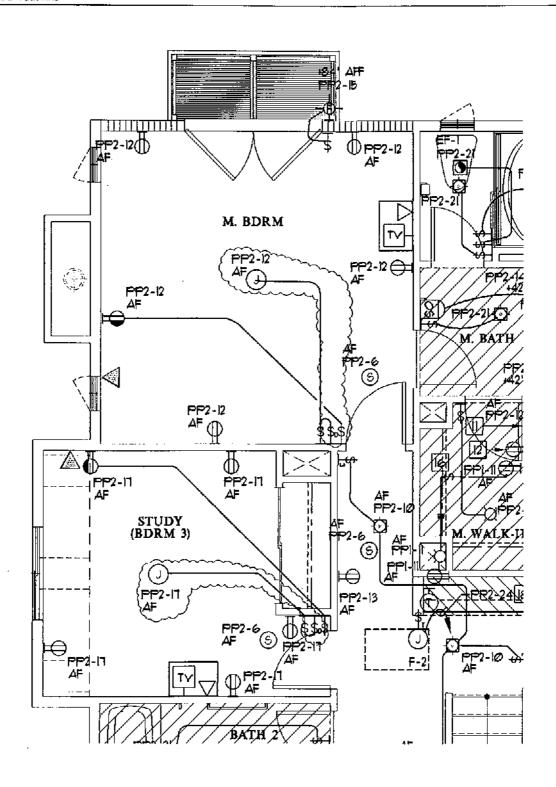
CENTER OF ALL BEDROOM

J-BOX AT

TITLE

SKETCH NO.

GENERAL B





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SHEET INFORMATION
ADDENDIM 3
ELECTRICAL RESPONSE
PAGE 3 OF 13

DATE: 6EPTB18ER 9, 2011

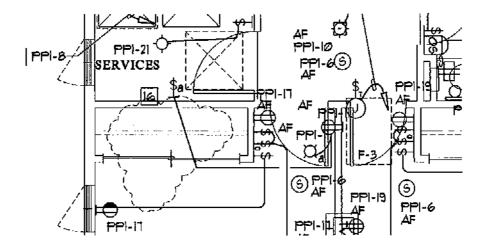
REMOVE EXTRA
OUTLET FOR
FUTURE RADON
FAN

SKETCH NO.

GENERAL C

General comment: Outlet for future Radon fan

At building 300 series delect extra outlet for future Radon fan from second floor attic space. (Typical for building 300A, 300AR, 300AX and 300AXR)





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	SHEET INFORMATIO
ADD	ENDUM 3
ELEC	TRICAL RESPONSE
PAG	4 OF 13
DATE	: BEPTEMBER 9, 2011

RELOCATE FUT. OUTLET FOR RADON FAN

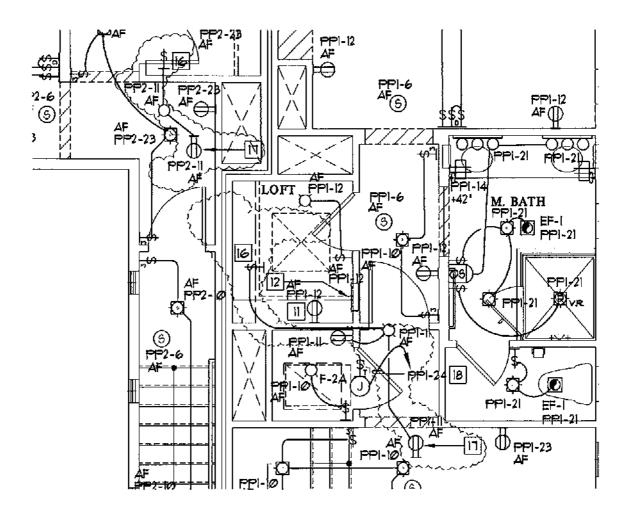
SKEICH NO.
GENERAL D

General comment: Outlet for future Radon fan

Relocate outlet for future Radon fan from Second floor attic space to third floor attic space. (Typical for unit 5.) at building 600A, and 600B, unit 5.1R at building 600AR) unit 7.1 at building 700A, and unit 7.1R at building 700AR)

Relocate outlet for future Radon fan at third floor to loft area adjacent to top of stair.

(Typical for unit 4.1 at building 600A, and 600B, unit 4.1R at building 600AR)





Namport Beach Office: 20162 5III Birch Street, Suite 100 Namport Beach, California 92660 (949) 152-0501 Telephone (949) 152-1599 Facelmile

6HEET INFORMATION
ADDENDUM 3
ELECTRICAL RESPONSE
PAGE 5 OF G

DATE: SEPTEMBER 9, 2011

PROVIDE MORE
LIGHTING IN
BATHROOM AND
CLOSET

екетсныо. В−5

Item B-5

Lighting Fixture Specification selected and specified by Architect and shown on sheet E003 is revised as follow to increase lighting level in bathroom an walk-in closes: (See sketch B-5.) for revised lighting fixture schedule for dwelling unit.)

Wall sconce with three ISU compact fluorescent lamps fixtures: Two sconces to be installed in master bathroom and bathroom with two sinks centered on top of each sink.

Wall aconce with three ISW compact fluorescent lamps fixtures: One aconce to be installed in all bathroom with only one sink.

Wall aconce with two ISW compact Fluorescent lamps fixtures: One aconce to be installed on all powder rooms.

(See sketch B-52 for layout at varies bathrooms as shown above.)

Surface round drum shaped fixture for all walk in or laundry closest to be revised to two 26W compact fluorescent lamps to provide twice light level at closest.

Revised symbol for fixture used at garage and specify two lamps instead of one lamp.



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PAGE 6 OF B

DATE: BEPTEMBER 9, 2011

DWELLING UNIT LTG. FIXTURE SCHEDULE

SKETCH NO.

TITLE

B-5.1

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ING UNIT LIGHTING FIXTURE SCHEDUL		FIXIUME DESCRIPTION	LIGHT FIXTURE OVER BATHROOM PULLMAN. BRUBHED NICKEL FINI941. GLASS SHADES.	LIGHT FIXTURE OVER BATHROOM PULLMAN. BRIGHED NICKEL FINIGH. GLASS SHADES.	67 DIA HORIZANTAL OFL FLUCYESCENT DOUNLASHTING WITH ALZAK CLEAR DIFFUSER, ELECTRONIC BALLAST, AND IC HOUSE.	PLUCKESCENT DOUNLIGHTING WITH WHITE DIRTUSER, ELECTRONIC BALLAST, AND IC HOUSE.	WET LISTED FLLORESCENT DOUNLIGHTING WITH WHTE DIFFUSER, ELECTRONIC BALLAST, AND IC HOUSE	ROUND WHITE DRUM SHAPED CLOUD FIXTURE.	RUCKESCENT DOWNEHTHE WITH A ZAK CLEAR DETROER, AND IC HECTRONIC BALLAST, AND IC HOUSE	RUCKESCENT STRIP LIGHT WITH ELECTRONIC BALLAST AND SIOR THD NETANT-START	12" HIGH OUTDOOR FLUORESCENT WALL LIGHT FIXTURE WITH ELECTRONIC BALLAST AND BUILT IN PHOTOCELL	
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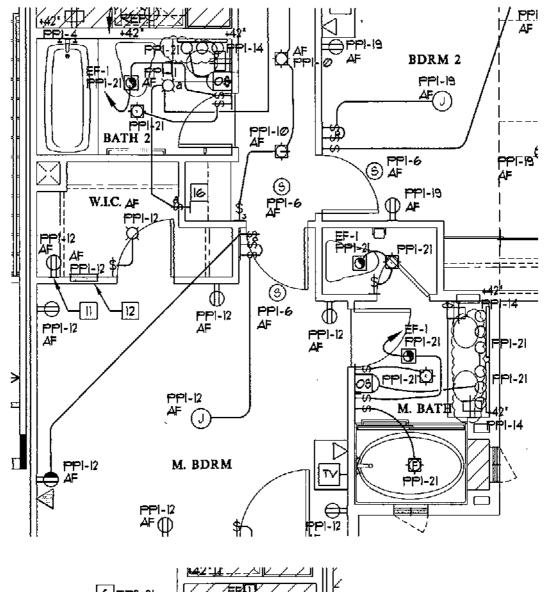
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PAGE 1 OF 13

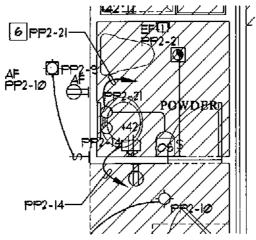
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WALL SCONCE-TWO OR THREE LAMPS AT VARIES BEDRMS.

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5KETCH NO. B-5.2







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SHEET INFORMATION
ADDENDUM 3
ELECTRICAL RESPONSE
PAGE 8 OF 13
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CABLE CONNECTION AT STUDY

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Item C-1: Location of the cable connection at study

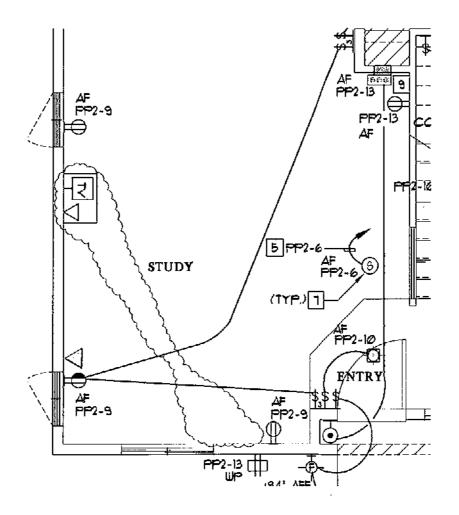
Cable connection for study located at unit 50R on building 400AR to be relocated to larger wall to allow more room for TV installation.

Cable connection for study located at unit 50 on building 4008 to be relocated to larger wall to allow more room for TV installation.

Cable connection for study located at unit 5.1 on building 600A to be relocated to larger wall to allow more room for TV installation.

Cable connection for study located at unit 5.1R on building 600B to be relocated to larger wall to allow more room for TV installation.

Cable connection for study located at unit 5.1R on building 600AR to be relocated to larger wall to allow more room for TV installation.





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ADDENDUM 3
ELECTRICAL RESPONSE
PAGE 9 OF 13

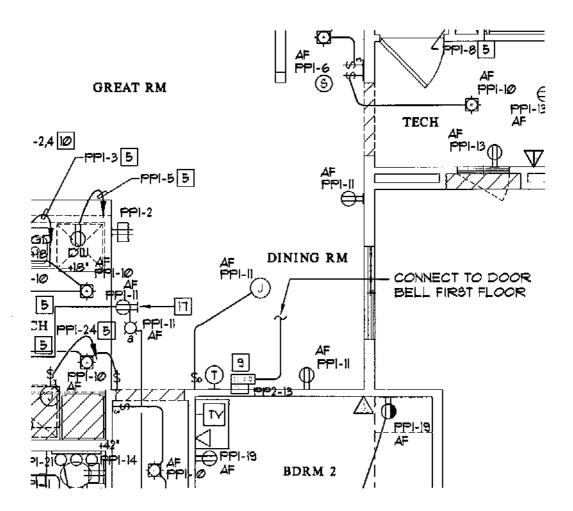
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DINING ROOM J-BOX LOCATION

> 9KETCH NO. D-14

Item D-14: Location of the dining room J-box to be center of dining area.

J-box at dining room should be on top and at center of dining table. Architect will show dining table for locating this J-box.





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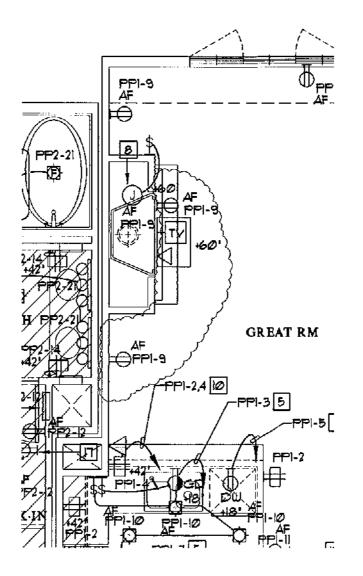
CABLE
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ADJACENT TO
FIRE PLACE

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TITLE

Item F-19: Location of the cable connection adjacent to fire place

All cable connection adjacent to fire place to be relocated out of niches and be relocated to the wall above fire place at +60°AFF (field verify) for flat screen TV installation.





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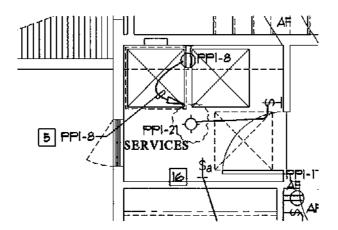
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9KETCH NO. 1-28

item 1-28: Light fixture at laundry room.

Light fixture at laundry room of building 300 series revised from surface Ix4 fluorescent fixture to surface round drum light with (2) 26th compact fluorescent lamp.





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LAUNDRY ROOM LIGHT AND SWITCH ADDED

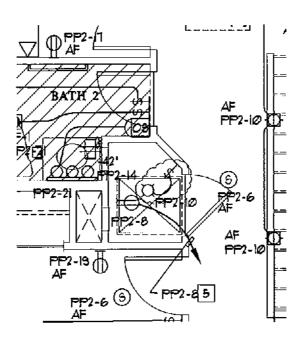
TITLE

9KETCH NO. I-28.1

Item I-28: Light fixture at laundry room.

One surface round drum light with switch control to be installed in laundry closet at the following areas:

Unit 50R at building 400AR
Unit 50 at building 400B
Unit 5.1 at building 600A
Unit 5.1R at building 600AR
Unit 5.1 at building 600B





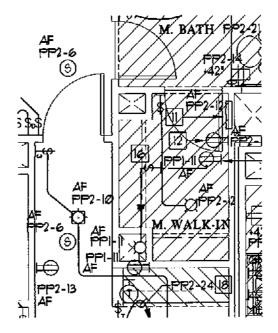
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PAGE 19 OF 13

DATE: SEPTEMBER 9, 701)

WALK-IN CLOSET LIGHT FIXTURE WATTAGE REVISED

Item 1-30: Light fixture at walk-in closet.

Light fixture at walk-in closet to revise to two 26W compact fluorescent lamps to provide twice light level at closet. (Typical for whole project)





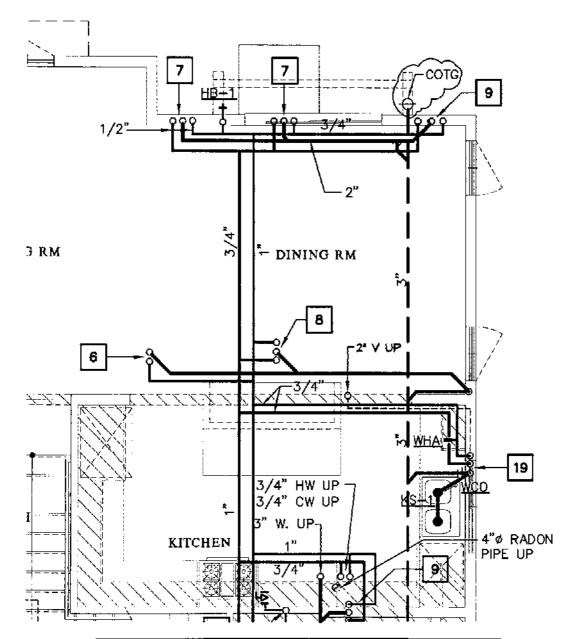
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NOTE: CLEANOUTS SHALL BE CLOSE TO THE FLOOR AND 2"-4" FROM THE WALL TO KEEP CONSISTENCY.



BLDG. 300A 1ST FLOOR PLUMBING PLAN SCALE 1



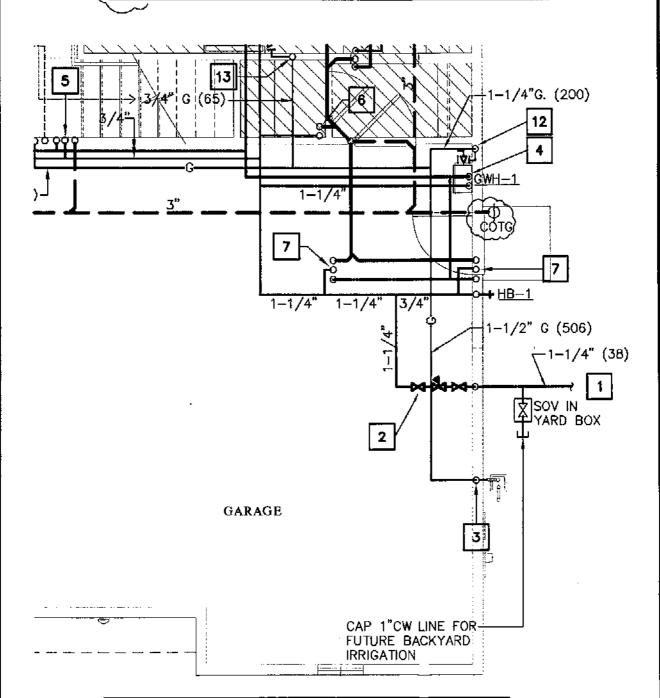
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NOTE: CLEANOUTS SHALL BE CLOSE TO THE FLOOR AND 2"-4" FROM THE WALL TO KEEP CONSISTENCY.



BLDG. 300A 1ST FLOOR PLUMBING PLAN SCALE 2



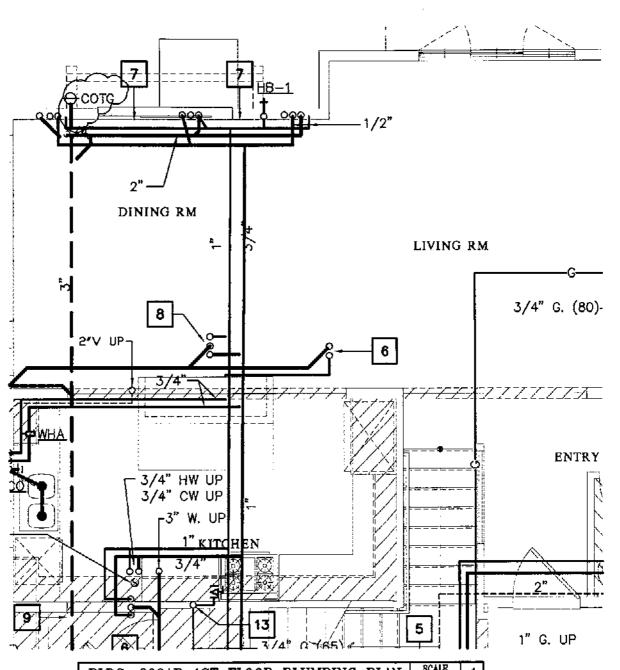
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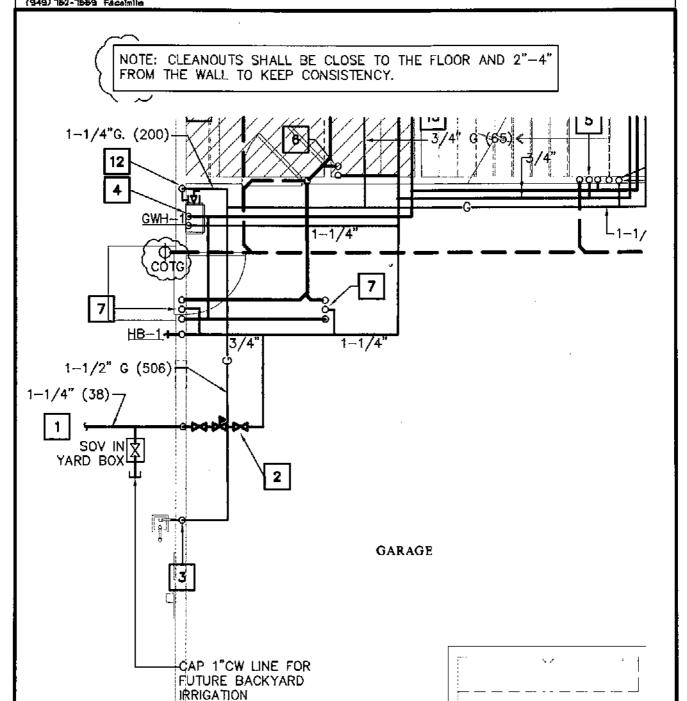
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BLDG. 300AR 1ST FLOOR PLUMBING PLAN SCALE 2



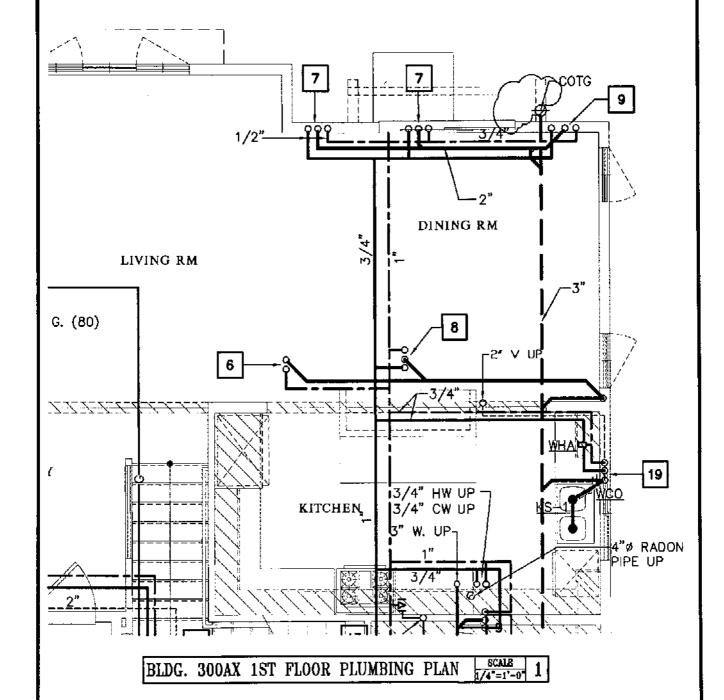
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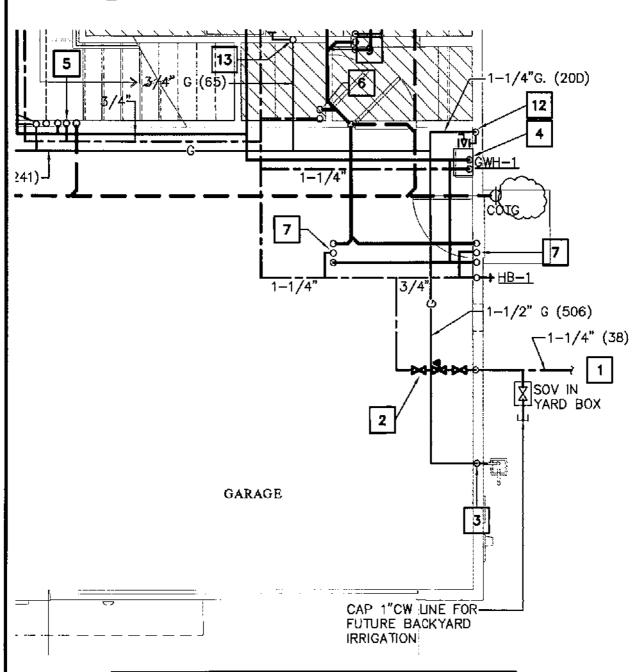
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NOTE: CLEANOUTS SHALL BE CLOSE TO THE FLOOR AND 2"-4" FROM THE WALL TO KEEP CONSISTENCY.



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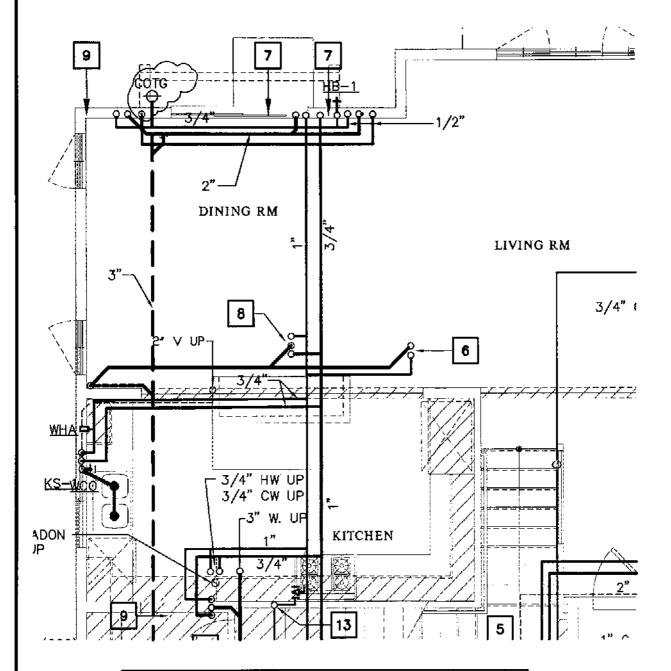
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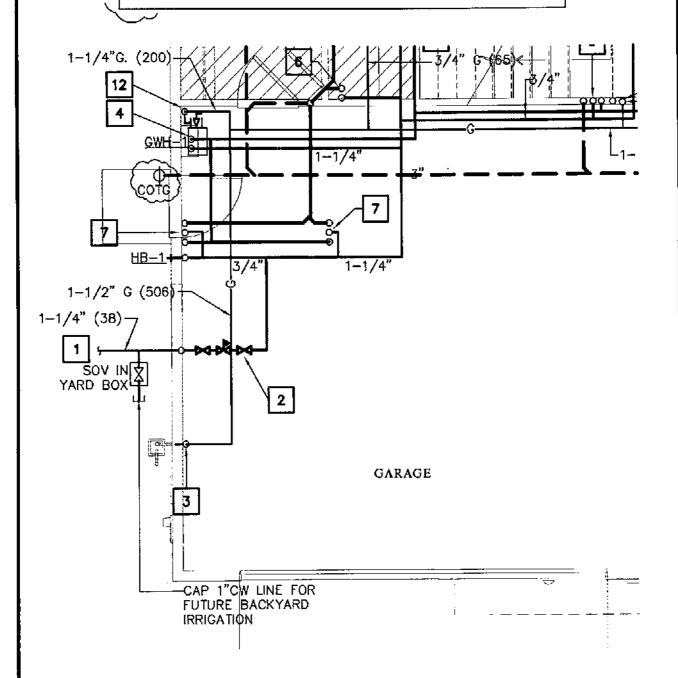
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FROM THE WALL TO KEEP CONSISTENCY.



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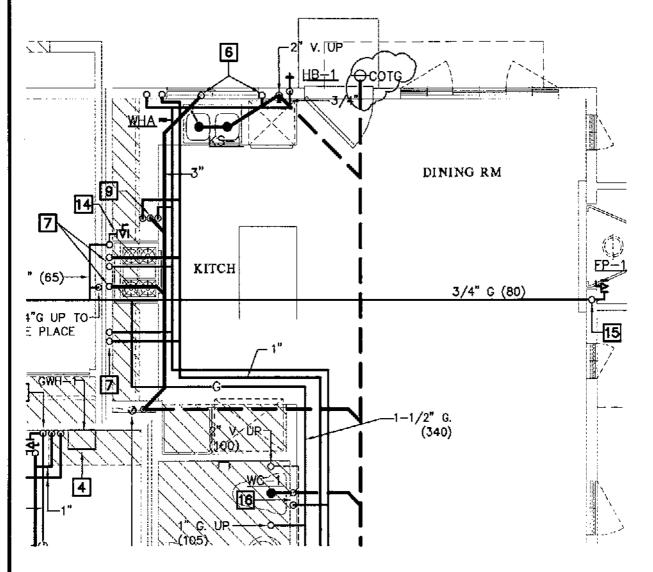
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BLDG. 400AR 1ST FLOOR PLUMBING PLAN SCALE 1/4"=1'-0"



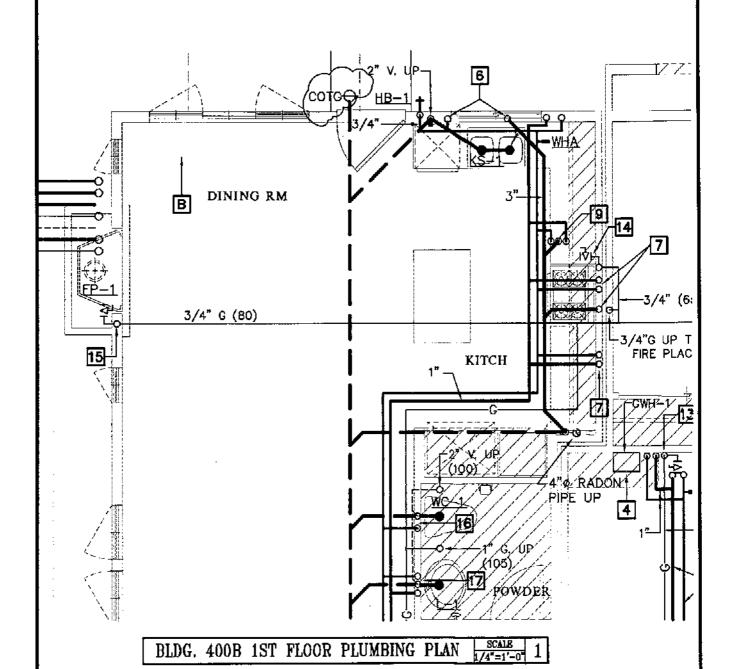
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PAGE 19 OF TI

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BLDG. 4000 167 FLOOR PLUMBING PLAN

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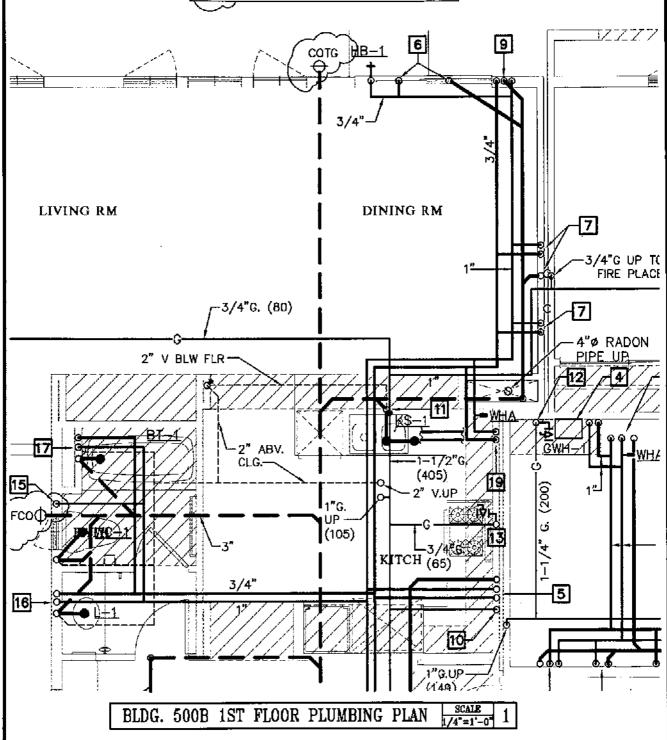
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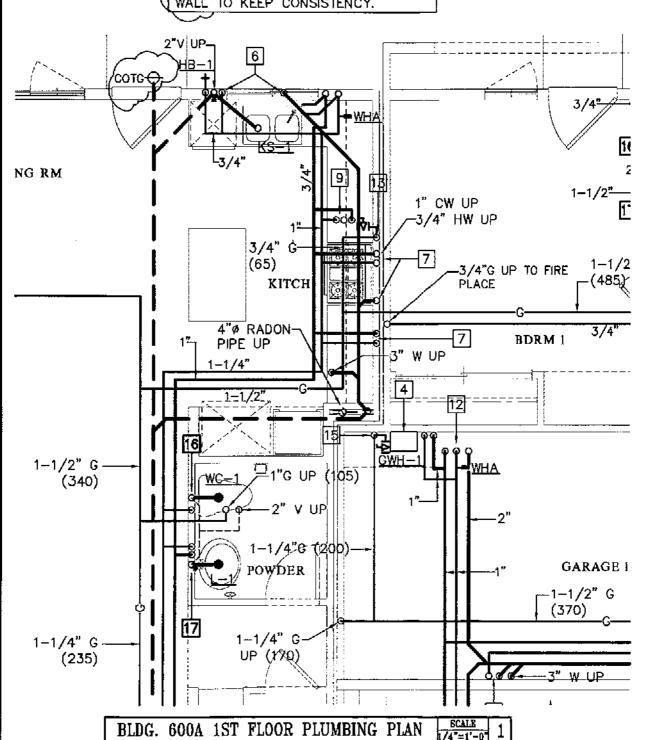
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BLDG 600A BT RLOOR PLUMBING PLAN

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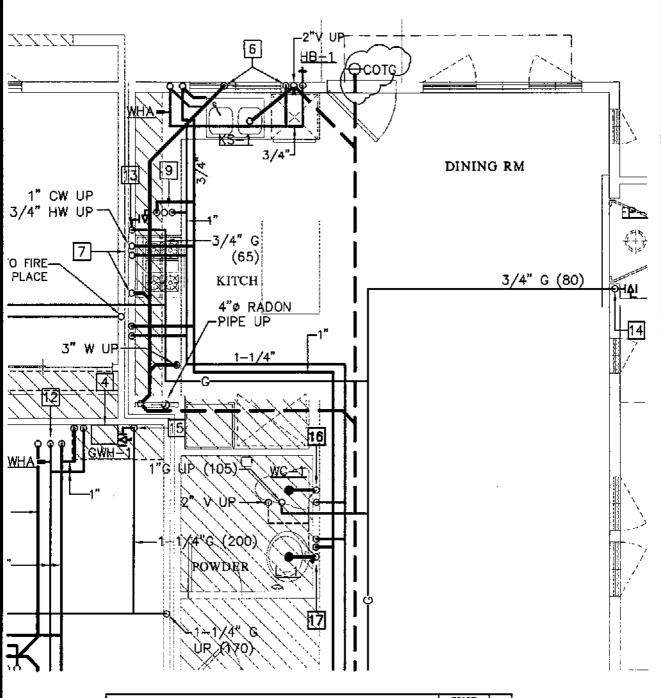
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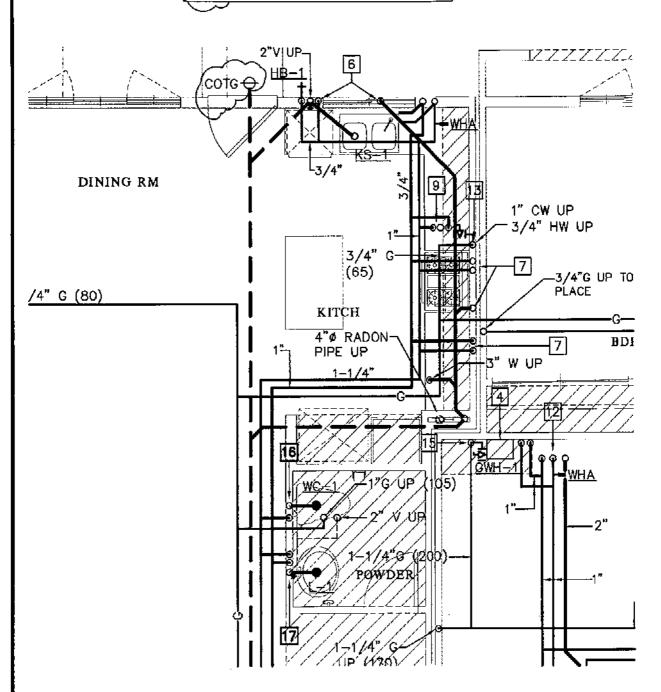
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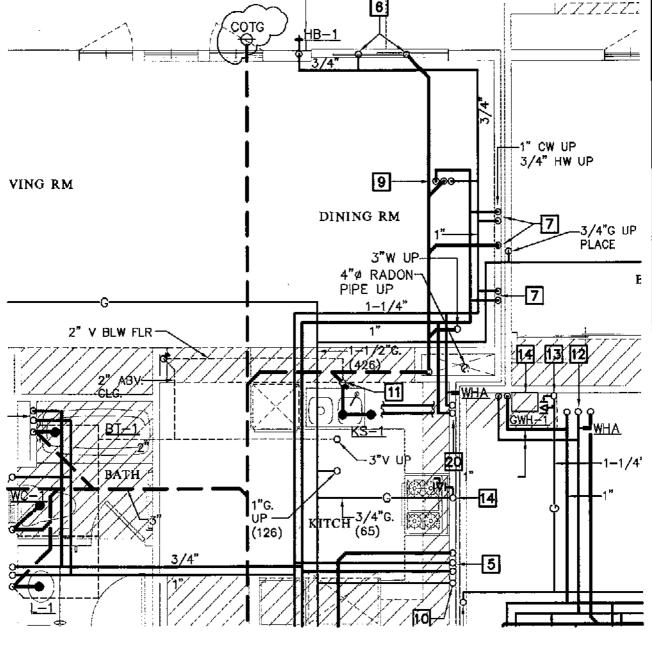
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BLDG, 700A 1ST FLOOR PLUMBING PLAN

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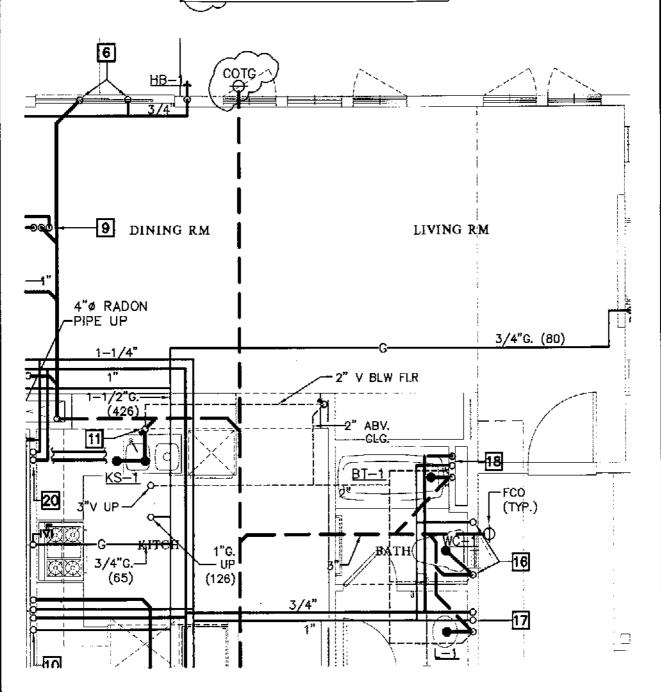
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BLDG. 700AR 1ST FLOOR PLUMBING PLAN SCALE 1



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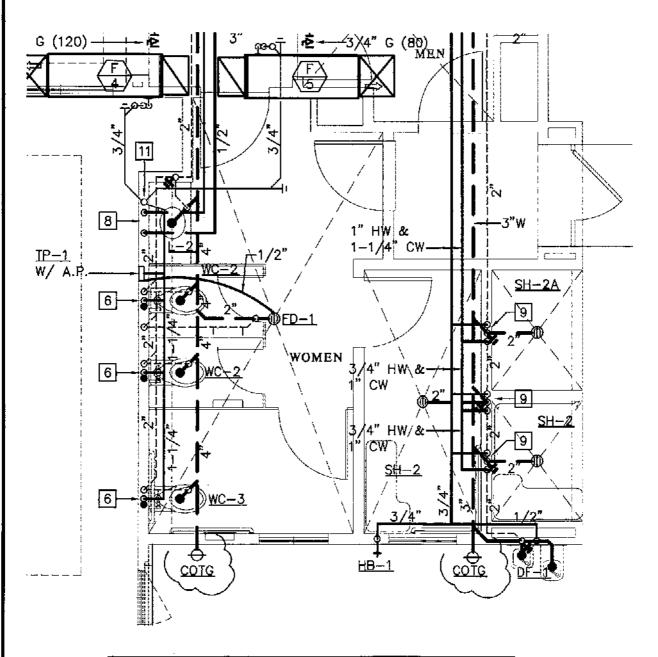
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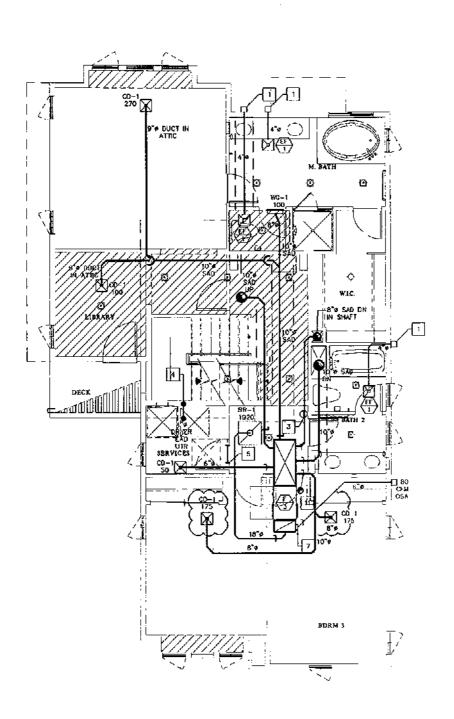


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ADDENDUM 3
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PAGE 1 OF 9

DATE: SEPTEMBER 9, 201

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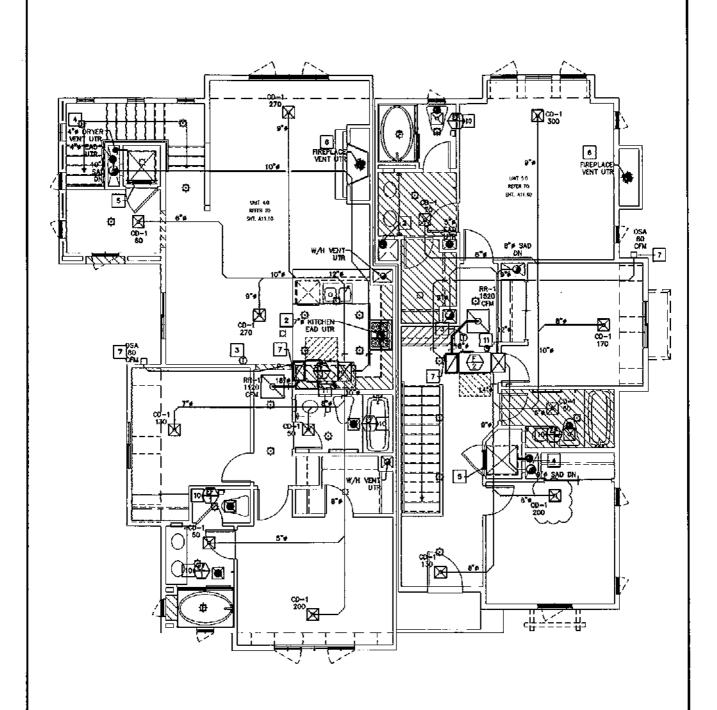
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BUILDING 400AR SECOND FLOOR MECHANICAL PLAN (TYPICAL FOR ALL BUILDING 400)

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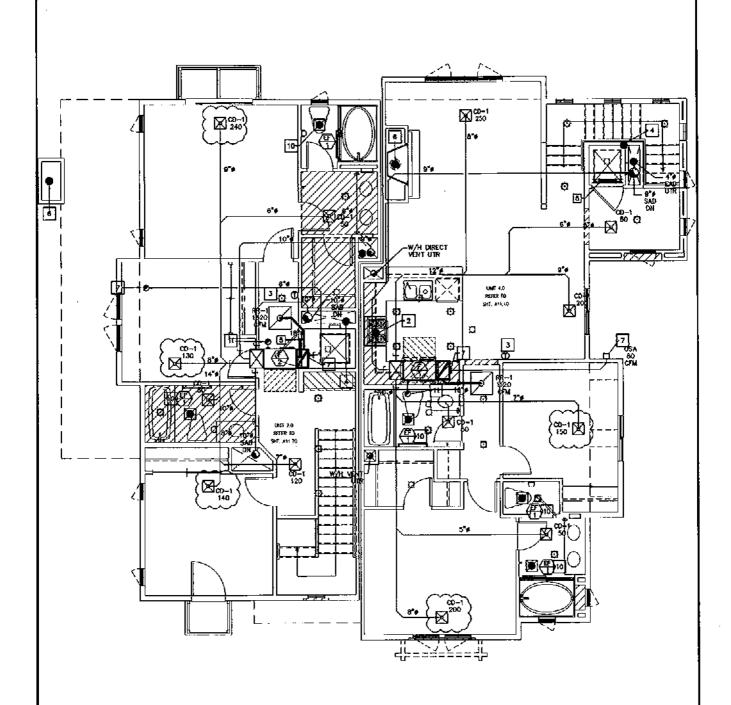
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PAGE 3 OF 9
DATE: GEPTEMBER 9, 2011

BUILDING 5008 SECOND FLOOR MECHANICAL FLAN (TYPICAL FOR ALL BUILDING 500)

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BUILDING 500B SECOND FLOOR MECHANICAL PLAN (TYPICAL FOR ALL BUILDING 500)



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DATE: GEPTEMBER 9, 201

BUILDING 600A SECOND RLOOR MECHANICAL FLAN (TIPICAL FOR ALL BUILDING 600)

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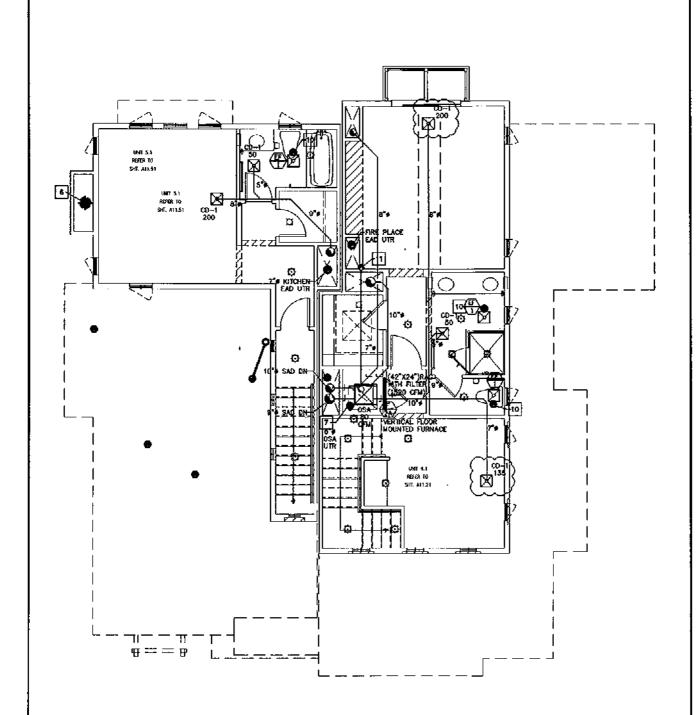
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PAGE 5 OF 9

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BUILDING 600A
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MECHANICAL FLAN
(TYPICAL FOR ALL
BUILDING 600)

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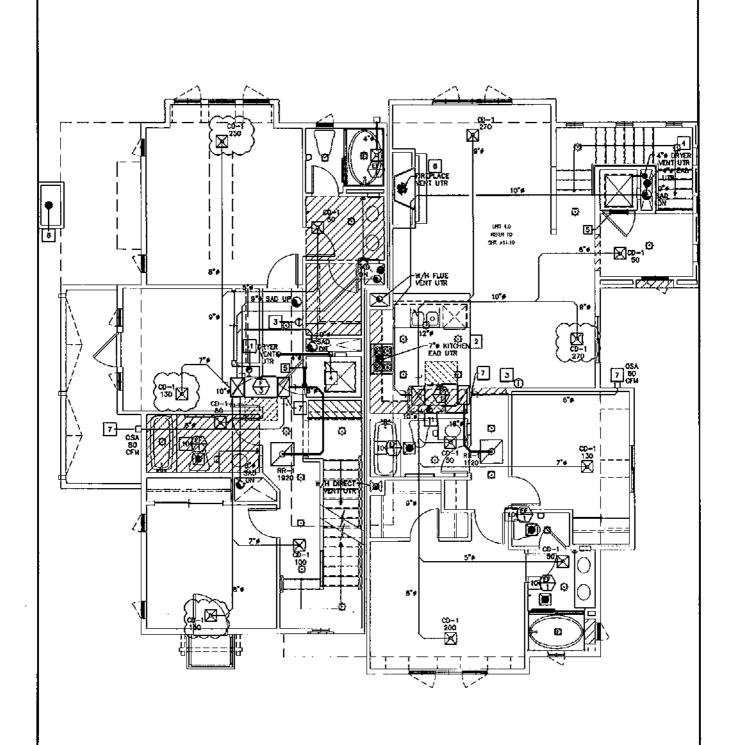
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ADDENDUM 3
MECHANICAL RESPONSE
PAGE 6 OF 9
DATE: SEPTEMBER 9, 201

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BUILDING 100)

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BUILDING 700A SECOND FLOOR MECHANICAL PLAN (TYPICAL FOR ALL BUILDING 700)

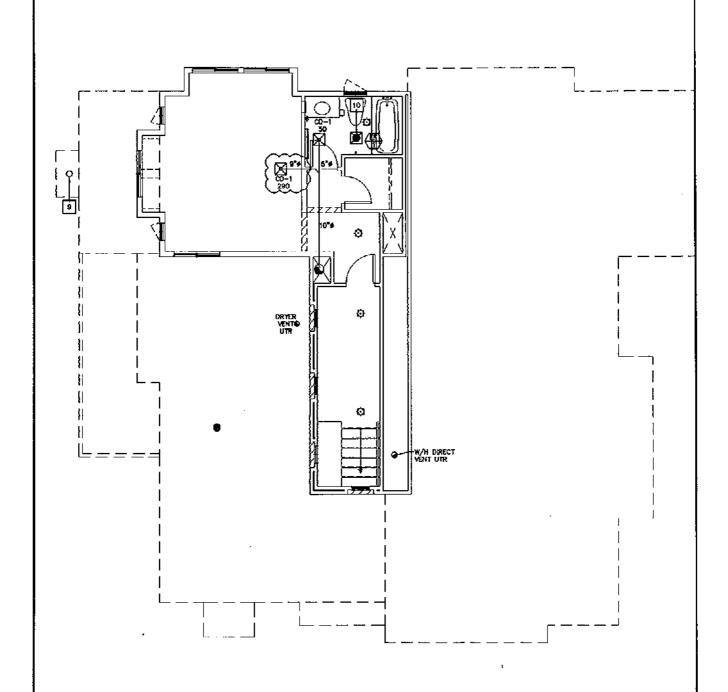


Nauport Beach Office: 20162 8.W. Birch Street, Guite 100 Nauport Beach, California 92660 (949) 732-0601 Telephone (949) 752-7559 Facelinile SHEET INFORMATION ADDRIDUM 3 MECHANICAL RESPONSE PAGE T OF 9

DATE: SEPTEMBER 9, 2011

BUILDING 100A THIRD RLOOR MECHANICAL PLAN (TYPICAL FOR ALL BUILDING 100)

EKETCH NO.



BUILDING 700A THIRD FLOOR MECHANICAL PLAN

(TYPICAL FOR ALL BUILDING 700)



Newport Beach Office: 20162 S.W. Birch Straet, Sulta 100 Nauport Beach, California 92660 (949) 752-0601 Telephone (949) 752-7559 Facelnile

SHEET INFORMATION ADDENDUM 3 MECHANICAL RESPONSE PAGE 8 OF 9

DATE: BEPTEMBER 9, 201

MECHANICAL AIR SUPPLY REGISTER SCHEDULE

EXETCH NO.

AIR DISTRIBUTION SCHEDULE (RESIDENTIAL)

SUPPLY AIR REGISTER **CFM** LISTED SIZE **CFM** LISTED SIZE 0 - 558x4 136-175 14x6 56 - 65176 - 1856x6 16x6 & 10x10 56-70 176-190 12xB 10x4 71 - 85191 - 23514x8 & 18x6 12x4 86-110 10x6 236-300 16x8 & 12x12 111-120 301-390 14x14 & 24x8 8x8 111-135 391-560 16x16 12x6

SIDEWALL/CEILING SUPPLY REGISTER:

HART & COOLEY MODEL #682 (TWO WAY)

HART & COOLEY MODEL #683 (THREE WAY) HART & COOLEY MODEL #684 (FOUR WAY)

NOTES: - PROVIDE "HART & COOLEY" OR APPROVED EQUAL. - COORDINATE WITH OWNNER AND ARCHITECT FOR COLOR.

- FOR THE SAME CFM, THE GREATER SIZE CAN BE USEO.



Neuport Beach Offices 20162 8,W. Birch Stress, Suits ICO Neuport Beach, California 92660 (949) 752-0601 Telephone (949) 752-7559 Faceinile

SHEET INFORMATION ADDENDUM 3 MECHANICAL RESPONSE PAGE 9 OF 9

DATE: BEPTEMBER 9, 201

MECHANICAL AIR RETURN GRILLE 6CHEDULE

EKETCH NO.

AIR DISTRIBUTION SCHEDULE (RESIDENTIAL)

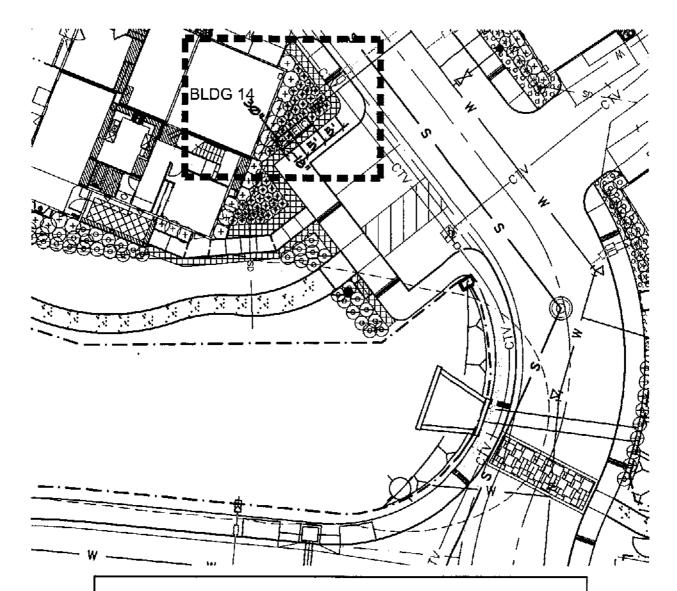
RETURN AIR GRILLE

CFM (MAXIMUM)	LISTED SIZE	CFM (MAXIMUM)	LISTED SIZE
50	6×6	540	20x20
100	12x6, 10x8	640	20x24
150	12×10	770	24x24
200	12x12,30x6	800	30x20
250	18x12,14x14	960	30x24
300	16x14,30x8	1200	30x30
400	18x18,30x10	1450	30x36
500	16x25,18x24	1800	36x36

RETURN AIR GRILLE: HART & COOLEY MODEL #672/674 RETURN AIR FILTER GRILLE: HART & COOLEY MODEL #673

NOTES: - PROVIDE "HART & COOLEY" OR APPROVED EQUAL. - COORDINATE WITH OWNNER AND ARCHITECT FOR COLOR.

- FOR THE SAME CFM, THE GREATER SIZE CAN BE USED.



- 1. The irrigation controller 'B' shown on the landscape drawings sheet 18 of 30 (Li-2) shall be relocated adjacent to Building 14 as shown within this exhibit and in response to Addendum 3, Item H-25.
- 2. The electrical meter pedestal shall be relocated to share a concrete pad with the irrigation controller at the same location.
- 3. Twenty (20) of the Maori Queen Flax shown on landscape sheet 27 of 30 (LP-5) immediately surrounding the pedestals shall be changed from a 1 Gallon container to a 5 Gallon container.

2011

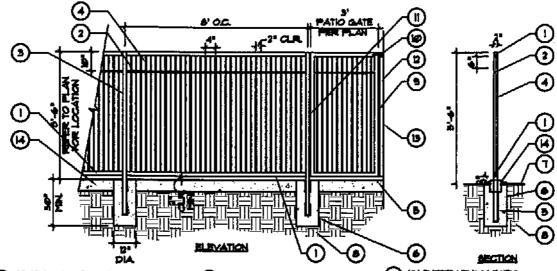
SKETCH NO. :	1 of 5
SCALE:	1° = 20'
PHASE:	PHASE-2
JOB. NO. :	0304.020
DATE:	SEP. 9, 2011

TITLE: Addendum 3

UCSB North Campus Faculty Housing - Phase II
University of California, Santa Barbara
Santa Barbara, California



PLANNING - PERSON - LANDROAME ARCHITECTURE CRAFT AND CONTROL CAMP MORE ON SERVICE FINE (A) 075-4200 FANC (714) 875-4229 William www.harmscome.com



- 2"x2" 60. TUBLEAR STEEL TOP AND BOTTOM RALE WELDED TO POST.
- CONCRETE POOTING- BLOPE
 TOP TO DRAIN.
- " BO, TUBLE AR STEEL ACCIENT PAIL UELD TO PRONT OF PICKETS AND RUISH IN PACE OF POST.
 - (1) FINISH GRADE.
- 270" 60 TUBLEAR STEEL POST WITH PLAT CAP LOCATED # 8'-6" OC. MAX. AND AT ALL CHANGE OF
- COMPACTED SUBGRADE PER GEOTECHNICAL REPORT,
- DIRECTION
- 2" OQ. TUBULAR STEEL GATE

- STANDARD GATE LATCH PER CONTRACTOR, AND APPROVED BY UNIVERSITY.
- " 60 TUBLEAR STEEL PENCE PICKETO(D) DTUBOTEELINCH
- SELF-CLOSING HINGES, EGUALLY SPACED, PER CONTRACTOR AND APPROVED BY UNIVERSITY.
- 2" POST ATTACHED TO NACE OF BUILDING WITH THREE (3) 1/3" DIA 4" LONG LAG BOLTS EQUALLY SPACED, CONTRACTOR SHALL COCRONATE WALL CONNECTION WITH BUILDING CONTRACTOR.
- **(b**) MACE OF BUILDING
- CONCRETE MOUCHES 6" 6Q. WITH X" RADIUS TOP EDGES, "5 MEBAR CONTINUOS LENGTH OF HEADER HATURAL GREY CONCRETE WITH SAUCHS AT 6" OC. TYP.
 (ALTERNATIVE DID ITEM)
- Detail shown on the landscape drawing Sheet 11 of 30 (LCD-2), Detail 3 'Tube Steel Fence & Gate (Pickets 2" Clr.) -Private Yards' is incorrect and should match what is depicted within this exhibit. Fence design should match what was constructed in Phase 1.

- L CONTRACTOR SHALL FELD VERFY ALL DIFFERENCE PRIOR TO
- CONTRACTOR SHALL SUBHIT SHOP DRAWNIS WITH HARDWARE SPECIFICATION TO UNIVERSITY OR UNIVERSITY'S REPRESENTATIVE FOR REVIEW PRIOR TO PARRICATION.
- VP* FILLET WELDS ALL AROUND AT ALL JOINTS AND CONNECTIONS. GRAND STOOTH 346".
- Perfer to the product and material schedule on sheet i.c.-o for all colors, materials, fallshes and specifications.

0 2011

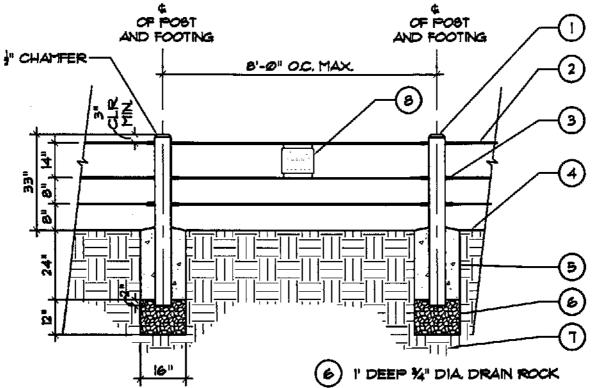
SKETCH NO. :	2 of 5
SCALE :	1/4" = 1' - 0"
PHASE ;	PHASE-2
J08, NO. :	0304.020
DATE:	SEP. 9, 2011

TITLE: Addendum 3

UCSB North Campus Faculty Housing - Phase II University of California, Santa Barbara Santa Barbara, California



PLANNING TERMON LARLY APE ANOHOLOUSE S050 Fusional Street Contribution (A Biblio) Ph (7:4) 875-1200 4.0 (014) 57**3-**5223 Web, were switched and several



- 6 × 6 CEDAR WOOD POST. EXTEND 2" BELOW CONCRETE FOOTING.
- 2) 1/8" + STAINLESS STEEL CABLE
- HEAVY DUTY STAINLESS STEEL
 TURNBUCKLE LOCATED AT EVERY
 12TH POST (96'-0" OC.) OR
 CHANGES IN DIRECTION TO ALLOW
 FOR WIRE TENSION ADJUSTMENT.
- (4) FINISH GRADE
- 6 CONCRETE FOOTING. SLOPE

- COMPACTED SUBGRADE PER
 GEOTECHNICAL REPORT
- RESTRICTED ACCESS SIGNATION ATTACH TO CABLES PER METHOD APPROVED BY THE UNIVERSITY.
 REFER TO THE COASTAL
 COMMISSION SIGNAGE PLAN FOR
 APPROVED SIGN TEXT.

NOTES:

I. REFER TO PRODUCT AND MATERIAL SCHEDULE ON SHEET LC-0 FOR ALL MATERIALS, COLORS AND FINISHES.

1. Post and Wire Perimeter/ Buffer Fence-The construction detail found within the landscape drawings sheet 11 of 30 (LCD-2), detail 5 has been revised to include a third wire matching the Phase 1 specification.

0 2011

SKETCH NO. :	3 of 5
SCALE:	$3/8^n = 1^n \cdot 0^n$
PHASE:	PHASE-2
JOB. NO. :	0304.020
DATE:	\$EP. 9, 2011

TITLE: Addendum 3

UCSB North Campus Faculty Housing - Phase II University of California, Santa Barbara Santa Barbara, California



MADERIA (FRANCE LANDROME ARCHITECTURE BOOK RESTRICTERIAN OCES MARK CA SEELS FACTED ETS COLO. FAMILITA \$18-8229 (ARCHITECTO) MARKELINES

	PRODUCT AND MATERIAL SCHEDULE						
	THE HO.	the state of the s	HANGERSON	HATIBULALAHOOSE 9	COLOR	PROH	NOTES BATTACHT.
i	SO SHIP	Bills Alp Height					
	N N	VHYL FINCE	KREY	PRIVACY		H4A	-OFFIC TO HATCH PHAGE! NOTALLATION LCD-144
	13	VHYL GATE	KINOY	PLEASURE SCLIP	- A	N/A	-POST CAP SPEC- EXTERNAL LATION LCD-1/4

1. Vinyl Fence and Gate specification- The Landscape Construction Material Schedule found on sheet 3 of 30 (LC-0) items 2.1 and 2.2 have been revised to match Phase 1 specifications.

2. Response to Amoroso RFC #1-All references to 'Limit of Work' or 'Limit of Work - Phase 2' within the landscape drawings shall be amended to read 'Limit of Landscape and Irrigation Work'

3. Response to CW Driver RFI #2, Item 16-Contractor shall connect all deck and planter drains referenced in the landscape plans on sheet 8 of 30 (LC-5) within the pool area to the invert designed by the Civil Engineer. Invert location can be found on the C.E. Storm Drain Mainline Plan sheet 23 of 49 at the top, middle portion of the image.

2011

SKETCH NO. :	4 of 5
SCALE;	N/A
PHASE:	PHASE-2
JOB, NO.:	0304.020
DATE:	SEP. 9, 2011

TITLE: Addendum 3

UCSB North Campus Faculty Housing - Phase II
University of California, Santa Barbara
Santa Barbara, California



PLANDAG PRESENT LANDRICKT AFFIRENTIAL SUBC PLANDAG CLAR AREAS STORE EN (FIRE EXPENSE) CAR (FIRE EXPENSE) William MATCHARD STORE EXPENSE.

SHRUB LEGEND

	ЭYM	BOTANICAL NAME	COMMON NAME	81ZE	PACNG GIY.
	XXX	Achillea millefolium "Uhite"	Common Yárrou	1 gai.	18" O.C.
	ூ	Anigozanthos 'Red Jumper'	'Red Jumper' Kangaroo Paw	5 gal.	PER PLAN
	0	Arbutus unedo "Elfin King"	Dwarf Strauberry Tres	5 gal.	FER PLAN
		Arctostaphylos 'Emerald Carpet'	'Emerald Carpet' Manzanita	4" Pots	24" O.C.
	0000	Arctostaphylos uva-ursi 'Radiant'	Radiant Bearberry	4" Pots	24" O.C.
	\bigcirc	Arctostaphylos 'Sunset'	Sunset Manzanita	5 gal.	FER FLAN
*	•	Asciepias fascicularis	Fascicled Milkweed	5 gal.	PER PLAN
	(Baccharla 'Centennial'	'Centennial' Coyote Brush	5 gal.	PER PLAN
	⊕	Baccharis pilularis 'Twin Peaks II'	Dwarf Coyote Brush	l gal.	PER PLAN
	•	Cistus ladanifer	Crimeon-Spot Rockross	i gal.	PER PLAN
	0	Cietus hybridus	White Rockrose	l gal.	FER FLAN
	******	Erigeron kavinsklanus	Santa Barbara Daisy	i gai.	18" O.C.
*	_	Heteromeles arbutifolis	Toyon	5 gal.	PER PLAN
	0	Juniperus chinensis 'Sea Green'	Sea Green Juniper	5 gal.	FER FLAN
	0	Lavandula dentata	French Lavender	1 gal.	FER FLAN
	0	Leucophyllum langmaniae 'Lynn's Legacy'	Lynn's Legacy Rio Bravo Bush	اهما	PER PLAN
	(B)	~ '	Sså Låvender	lgal.	PER PLAN
	_	Limonium perezii Minulus aurantiacus		I gal.	FER FLAN
-	(b)		Bush Monkey Flower	igal.	FER PLAN
-	®	Nassella pulchra	Purpte Needlegrass Apricot Queen Flax	5 gal.	FER PLAN
	⊕	Phormium hybrids 'Apricot Queen' Phormium hybrids 'Maori Queen'	Maori Queen Flax	5 gal.	FER PLAN
		Rhamnus californica 'Eve's Case'		lgal.	PER PLAN
	⊕		Coffeeberry	igal.	
_	⊛	Rosmarinus officinalis 'Irens'	Irene Rosemary	igal.	PER PLAN
*	•	Salvia spathacea	Hummingbird Sage	5 gal.	PER PLAN
*	00000	Steyrinchium bellum	Blue-eyed Grass	i gal.	18" O.C.

TURF LEGEND

SYM BOTANICAL NAME	CONTION NAME	BITE BRACING CITY.
Buchloe dactuloides	Buffalograss	Piugs 6" O.C.

HATCH PATTERN NOTE:

FOR ALL HATCH PATTERNS SHOWN ON PLANTING SHEETS, LANDSCAPE CONTRACTOR SHALL INSTALL A MIN. OF 2 ROWS, TRIANGULATED SPACING, OF SPECIFIED PLANTING MATERIAL AT NARROWEST POINT. PLANT SPACING AS CALLED OUT ON LEGEND.

NATIVE SPECIES NOTE:

* OWNER FURNISHED, CONTRACTOR INSTALLED

1. The native species note has been revised to read "Owner furnished, Contractor installed." This legend can be found in the landscape plans on all shrub planting sheets 26-29 of 30. This revision does not apply to the tree sheets 23-25 of 30

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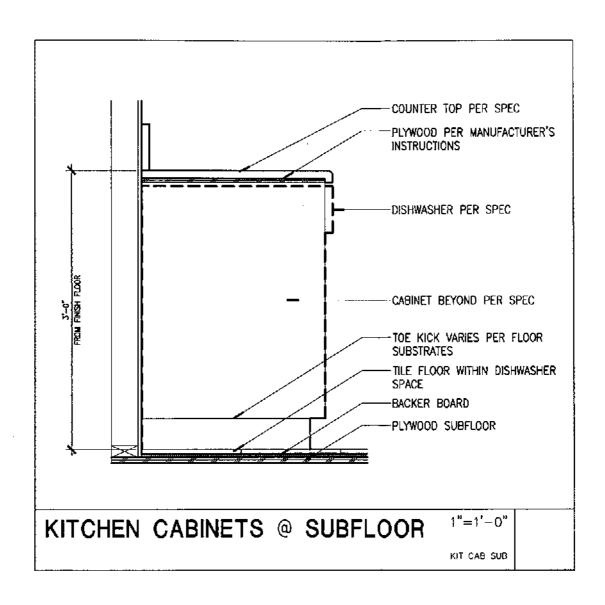
SKETCH NO.:	5 of 5
SCALE:	N/A
PHASE:	PHASE-2
JOB. NO. :	0304.020
DATE:	SEP. 9, 2011

TITLE: Addendum 3

UCSB North Campus Faculty Housing - Phase II University of California, Santa Barbara Santa Barbara, California



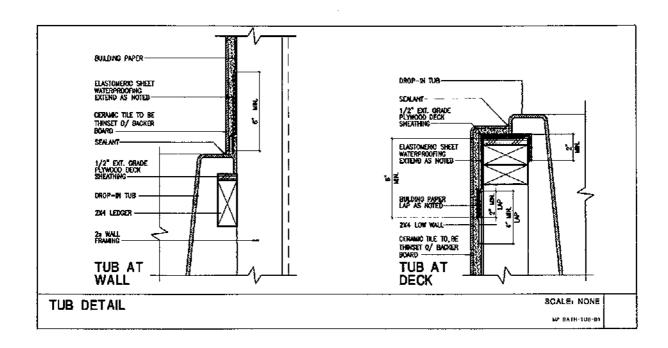
PLASHING - KYSKIN - TANDOK PYS, ARCHIEF CEDAK BOAD P OLITA BY NA - COLAR ATHLE (CL 02006 PROJECT COLAR COLAR COLAR COLAR CARCOLOR COLAR COLOR COLAR COLOR COLAR CO



ADDITIONAL DETAIL 23/AD5.1

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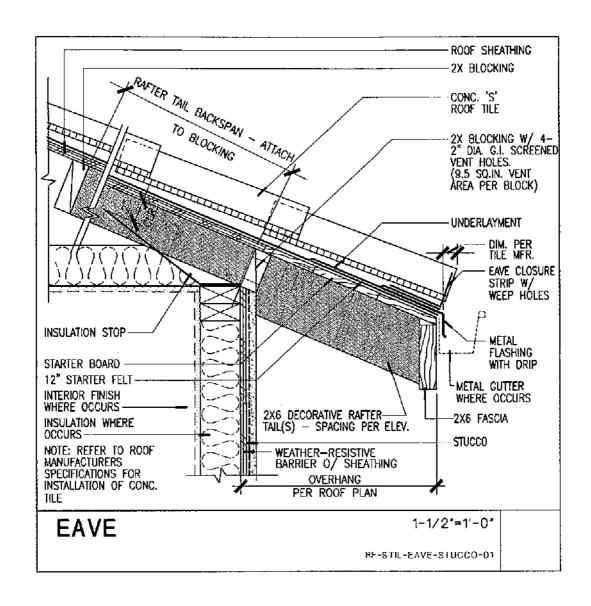
SKETCH NO. :	1 of 2	TITLE: Addendum 3	7\1
SCALE:	1"=1'-0"	SKETCHES PER C.W. DRIVER RFI#1	\\\\
PHASE :	PHASE II	UCSB North Campus Faculty Housing - Phase II	WILLIAM HEZMALHALCH
JOB, NO.;	2008145	University of California, Santa Barbara	ARCHITECTS INC. 2850 REDHILL AVENUE SUITE 200 SANTA ANA CA 92705-5543
DATE :	09/09/11	Santa Barbara, California	949 250 9807 www.wharchitects.com fax 949 250 1529



MODIFICATION TO DETAIL 14/AD5.1

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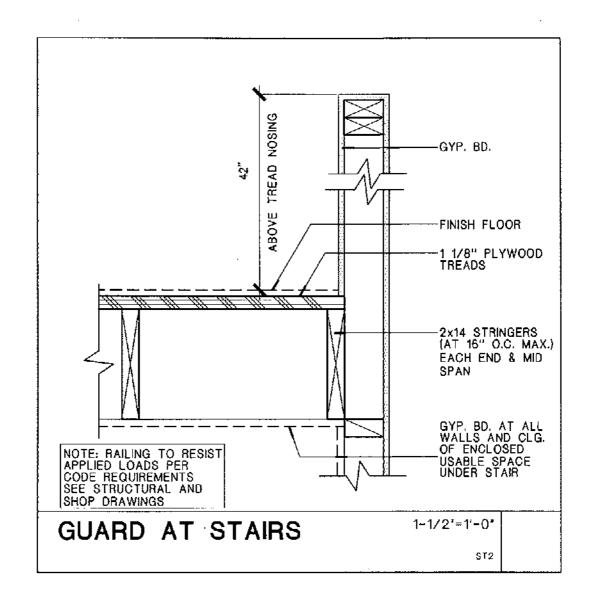
SKETCH NO. :	2 of 2	TITLE: Addendum 3	
SCALE:	NTS	SKETCHES PER C.W. DRIVER RFI#1	\\\\
PHASE:	PHASE (I	UCSB North Campus Faculty Housing - Phase II	WILLIAM HEZMALHALCH
JOB. NO. :	2008145	University of California, Santa Barbara	ARCHITECTS INC. 2850 REDHILL AVENUE SUITÉ 200 SANTA ANA CA 92705-5543
DATE:	09/09/11	Santa Barbara, California	949 250 0607 www.wharchitects.com fax 949 250 1529



ADDITIONAL DETAIL 15/AD1,2

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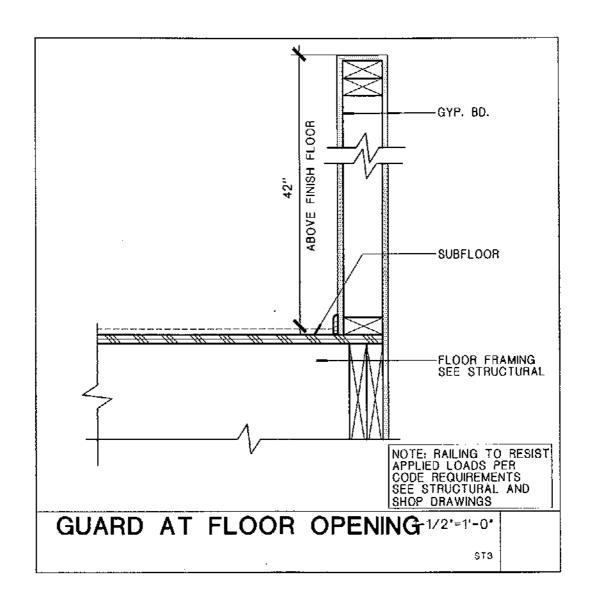
SKETCH NO. :	1 of 1	TITLE: Addendum 3	7\/
SCALE:	1-1/2*=1'-0"	SKETCHES PER C.W. DRIVER RFI#3	\\\\
PHASE:	PHASE II	UCSB North Campus Faculty Housing - Phase II	William Hezmalhalch
JOB. NO.:	2008145	University of California, Santa Barbara	ARCHITECTS INC. 2850 REDHILL AVENUZE SL/ITE 200 SANTA ANA CA 92705-5543
DATE:	09/13/11	Santa Barbara, California	949 250 0607 www.wharchitects.com lax 949 250 1529



REPLACE DETAIL 1/AD5.1

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SKETCH NO. :	2 of 3	TITLE: Addendum 3	7/1
SCALE:	1-1/2"=1*-0"	SKETCHES PER C.W. DRIVER RFI#3	\\\
PHASE:	PHAȘE II	UCSB North Campus Faculty Housing - Phase II	William Hezmalhalch
JOB, NO. ;	2008145	University of California, Santa Barbara	ARCHITECTS INC. 2850 REDHILL AVENUE SUITE 200 SANTA ANA CA 92705-5543
DATE:	09/13/11	Santa Barbara, California	949 250 0607 www.wharchitects.com fax 949 250 1529



REPLACE DETAIL 6/AD5.1

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SKETCH NO. :	3 of 3	TITLE: Addendum 3	
SCALE:	1-1/2"=1'-0"	SKETCHES PER C.W. DRIVER RFI#3	\\\
PHASE:	PHASE II	UCSB North Campus Faculty Housing - Phase II	William Hezmalhalch
J08. NO. :	2008145	University of California, Santa Barbara	ARCHITECTS INC. 2850 REDHILL AVENUE SUITE 200 SANTA ANA CA 92705-5643
DATE:	09/13/11	Santa Barbara, California	949 250 0507 www.wharchitecls.com fax 949 250 1529

fax 925 463 1725

925 463 1700

September 9, 2011

NORTH CAMPUS FACULTY HOUSING - PHASE II UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Project #2008145

RECREATIONAL BUILDING INTERIOR PALETTE

MATERIAL	COLOR	MANUFACTURER
20" x 20" FLOOR TILE FIELD & 13" x 13" FLOOR TILE BORDER with 3" x 13" BULLNOSE TILE BASE	PIETRE VECCHIE PV02 CHAMPAGNE	DALTILE
3" x 3" FLOOR TILE	KEYSTONES COLOR BODY PORCELAIN TILE COLOR TBD	DALTILE
6" x 6" WAINSCOT TILE FIELD with 6" x 6" COVE BASE	0709 MATTE ARCHITECTURAL GRAY	DALTILE
2" x 2" WAINSCOT TILE ACCENT	TUMBLED MOSAIC PIETRE VECCHIE PV02 CHAMPAGNE	DALTILE
GROUT @ FLOOR & WAINSCOT TILE	#386 OYSTER GRAY	CUSTOM BUILDING PRODUCTS
24" x 24" RUBBER FLOORING	ENDURA ECOSCORE ATHLETIC RUBBER FLOORING COLOR TBD	BURKE
1/8" x 4" COVE RUBBER BASE @ Rubber flooring	COLOR TBD	BURKE
TOILET PARTITIONS	BAKED ENAMEL STEEL COLOR TBD	BRADLEY CORPORATION
GRANITE COUNTER TOPS	TROPICAL BROWN	DALTILE
CABINETS	STANDARD CASE LAMINATE COLOR TBD	NEOCASE MODULAR CASEWOR
WALL COLOR	SW 6141 SOFTER TAN	SHERWIN WILLIAMS
TRIM COLOR (applied to): Casings Ceilings Doors	SW 6140 MODERATE WHITE	SHERWIN WILLIAMS
Color Designer: Donna Aldrich		William Hezmalhalch Architects, Inc.

2850 Redhill Avenue Suite 200 Santa Ana CA 92705-5543

Tel 949 250 0607 Fax 949 250 1529

Project #2008145

www.wharchitects.com

6111 Bollinger Canyon Rd., Suite 495 San Ramon CA 94583 Tel 925 463 1700 Fax 925 463 1725

INTERIOR PALETTE ASSIGNMENTS

BUILDING NO.	BUILDING TYPE	<u>unit no.</u>	UNIT TYPE	INTERIOR PALETTE NO.
14	500B	23	7	3
14	500B	24	4	1
15	400B	25	5	1
15	400B	26	4	2
16	400A	27	4	3
16	400A	28	5	2
17	500B	29	7	2
17	500B	30	4	1
18	400A	31	4	2
18	400A	32	5	3
19	700A	33	7.1	1
19	700A	34	4	3
20	600A	35	4.1	1
20	600A	36	5.1	2
21	600B	37	5.1	1
21	600B	38	4.1	2
22	700A	39	7.1	3
22	700A	40	4	1
23	300	41	3AX	1
24	300	42	3AX	2
25	600B	43	5.1	2
25	600B	44	4.1	3
26	300	45	3A	3
27	600B	46	5.1	3
27	600B	47	4.1	1
28	600A	48	4.1	2
28	600A	49	5.1	1
29	300	50	3A	2
30	600B	51	5.1	3
30	600B	52	4.1	1
31	300	53	3A	3
32	700A	54	7.1	2
32	700A	55	4	3
33	300	56	3A	1
34	600A	57	4.1	3
34	600A	58	5.1	1
35	300	59	3AX	2

2850 Redhill Avenue Suite 200 Santa Ana CA 92705-5543 www.wharchitects.com
Tel 949 250 0607 Fax 949 250 1529 6111 Bollinger Canyon Rd., Suite 495 San Ramon CA 94583
Tel 925 463 1700 Fax 925 463 1725

INTERIOR PALETTE SCHEDULES

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DO	NOT	SCALE	PLANS			
REVISIONS						
NO.	DATE	DESCF	RIPTION			

ARCHITECTURAL INTERIOR PALETTE

SHEET SCALE:	
PROJECT MANAGER:	BSM
DESIGNER:	MC
DRAWN BY:	RHA
REVIEWED BY :	
1ST BLDG. DEPT. SUBMITTAL :	
ISSUED FOR CONSTRUCTION:	
JOB NUMBER :	2008145.15
CAD FILE NAME :	08145_PHASE II_A11-10
DATE:	SHEET:
9/13/11	A11.10
UCSB PROJECT #:	FM110407L/986315
UCSB DRAWING #:	60-305

William Hezmalhalch architects inc

NORTH CAMPUS FACULTY HOUSING - PHASE II UNIVERSITY OF CALIFORNIA, SANTA BARBARA

July 22, 2011

Color Designer: Donna Aldrich

Project #2008145

William Hezmalhaich Architects, Inc. © 2011

INTERIOR PALETTE #2

MATERIAL	COLOR	MANUFACTURER
CARPET	URBAN SCENE 8US340630R 888847 BALTIMORE SUN	BENTLEY PRINCE STREET
FLOOR TILE 2" x 2" Tumbled Mosaic @ Bathrooms 13" x 13" @ Entries, Kitchens, Nooks & Service Areas	PIETRE VECCHIE PV02 CHAMPAGNE	DALTILE
6" x 6" SHOWER TILE	0709 MATTE ARCHITECTURAL GRAY	DALTILE
GROUT @ FLOOR & SHOWER TILE	#386 OYSTER GRAY	CUSTOM BUILDING PRODUCTS
GRANITE COUNTER TOPS	TROPICAL BROWN	DALTILE
CORIAN COUNTER TOPS	SILT	CORIAN
CABINETS (Maple Wood)	NATURAL	PCS
BLINDS (2" Faux Wood)	12067502 PACIFIC SAND	LEVELOR
WALL COLOR	SW 6141 SOFTER TAN	SHERWIN WILLIAMS
TRIM COLOR (applied to): Base Boards Casings Ceilings Doors 2Stair Skirt Board	SW 6140 MODERATE WHITE	SHERWIN WILLIAMS
² WOOD STAIN COLOR (applied to): Hand Rails Stair Railing	STAIN TO MATCH CABINETS	SHERWIN WILLIAMS
OPTIONAL ENGINEERED HARDWOOD FLOORING	HAND SCRAPED RENAISSANCE MAPLE 3/8" THICK, 15" WIDE, RUSTIC	SHAW

REVISIONS: REVISION NO. DESCRIPTION Hardwood flooring width corrected. Stair skirt board and wood stain color added. 2850 Redhill Avenue Suite 200 Santa Ana CA 92705-5543 6111 Bollinger Canyon Rd., Suite 495 San Ramon CA 94583 Tel 949 250 0607 Fax 949 250 1529 Tel 925 463 1700 Fax 925 463 1725

William Hezmalhalch architects inc

July 22, 2011

PALETTE 3 of 3

CARPET

FLOOR TILE

& Service Areas

6" x 6" SHOWER TILE

GRANITE COUNTER TOPS

CORIAN COUNTER TOPS

CABINETS (Maple Wood)

BLINDS (2" Faux Wood)

TRIM COLOR (applied to): Base Boards

²Stair Skirt Board

OPTIONAL ENGINEERED

Color Designer: Donna Aldrich

REVISIONS: REVISION NO.

2850 Redhill Avenue Suite 200 Santa Ana CA 92705-5543

Tel 949 250 0607 Fax 949 250 1529

HARDWOOD FLOORING

Hand Rails

Stair Railing

2W00D STAIN COLOR (applied to):

WALL COLOR

Casings

Ceilings

Doors

MATERIAL

2" x 2" Tumbled Mosaic @ Bathrooms

13" x 13" @ Entries, Kitchens, Nooks

GROUT @ FLOOR & SHOWER TILE

NORTH CAMPUS FACULTY HOUSING - PHASE II

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

INTERIOR PALETTE #3

COLOR

URBAN SCENE 8US340630R

DENVER POST

PIETRE VECCHIE PV03

WARM WALNUT

0766

MATTE ELEMENTAL TAN

#145 LIGHT SMOKE

SANTA VENETIA

MAUI

JAVA

12067501

PECAN

SW 0036

BUCKRAM BINDING

SW 7555

PATIENCE

STAIN TO MATCH

CABINETS

HAND SCRAPED STONEHENGE MAPLE

3/8" THICK, 15" WIDE, RUSTIC

DESCRIPTION

Hardwood flooring width corrected.

Stair skirt board and wood stain color added.

Project #2008145

DALTILE

DALTILE

CUSTOM BUILDING

PRODUCTS

DALTILE

CORIAN

PCS

LEVELOR

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

William Hezmalhaich Architects, Inc. @ 2011

PALETTE 1 of 3 MANUFACTURER BENTLEY PRINCE STREET

July 22, 2011

MATERIAL	COLOR	MANUFACTURER
CARPET	URBAN SCENE 8US340630R 888877 NEW YORK TIMES	BENTLEY PRINCE STREET
FLOOR TILE 2" x 2" Tumbled Mosaic @ Bathrooms 13" x 13" @ Entries, Kitchens, Nooks & Service Areas	PIETRE VECCHIE PV01 ANTIQUE IVORY	DALTILE
6" x 6" SHOWER TILE	0732 MATTE UPTOWN TAUPE	DALTILE
GROUT @ FLOOR & SHOWER TILE	#101 QUARTZ	CUSTOM BUILDING PRODUCTS
GRANITE COUNTER TOPS	SANTA CECELIA	DALTILE
CORIAN COUNTER TOPS	SANDSTONE	CORIAN
CABINETS (Maple Wood)	BRANDY	PCS
BLINDS (2" Faux Wood)	12067403 SAND SANDBLASTED	LEVELOR
WALL COLOR	SW 6106 KILIM BEIGE	SHERWIN WILLIAMS
TRIM COLOR (applied to): Base Boards Casings Ceilings Doors 2Stair Skirt Board	SW 7567 NATURAL TAN	SHERWIN WILLIAMS
² WOOD STAIN COLOR (applied to): Hand Rails Stair Railing	STAIN TO MATCH CABINETS	SHERWIN WILLIAMS
OPTIONAL ENGINEERED HARDWOOD FLOORING	HAND SCRAPED SIENA HICKORY 3/8" THICK, 15" WIDE, RUSTIC	SHAW
Color Designer: Donna Aldrich	,	William Hezmalhaich Architects, Inc

William Hezmalhalch architects inc

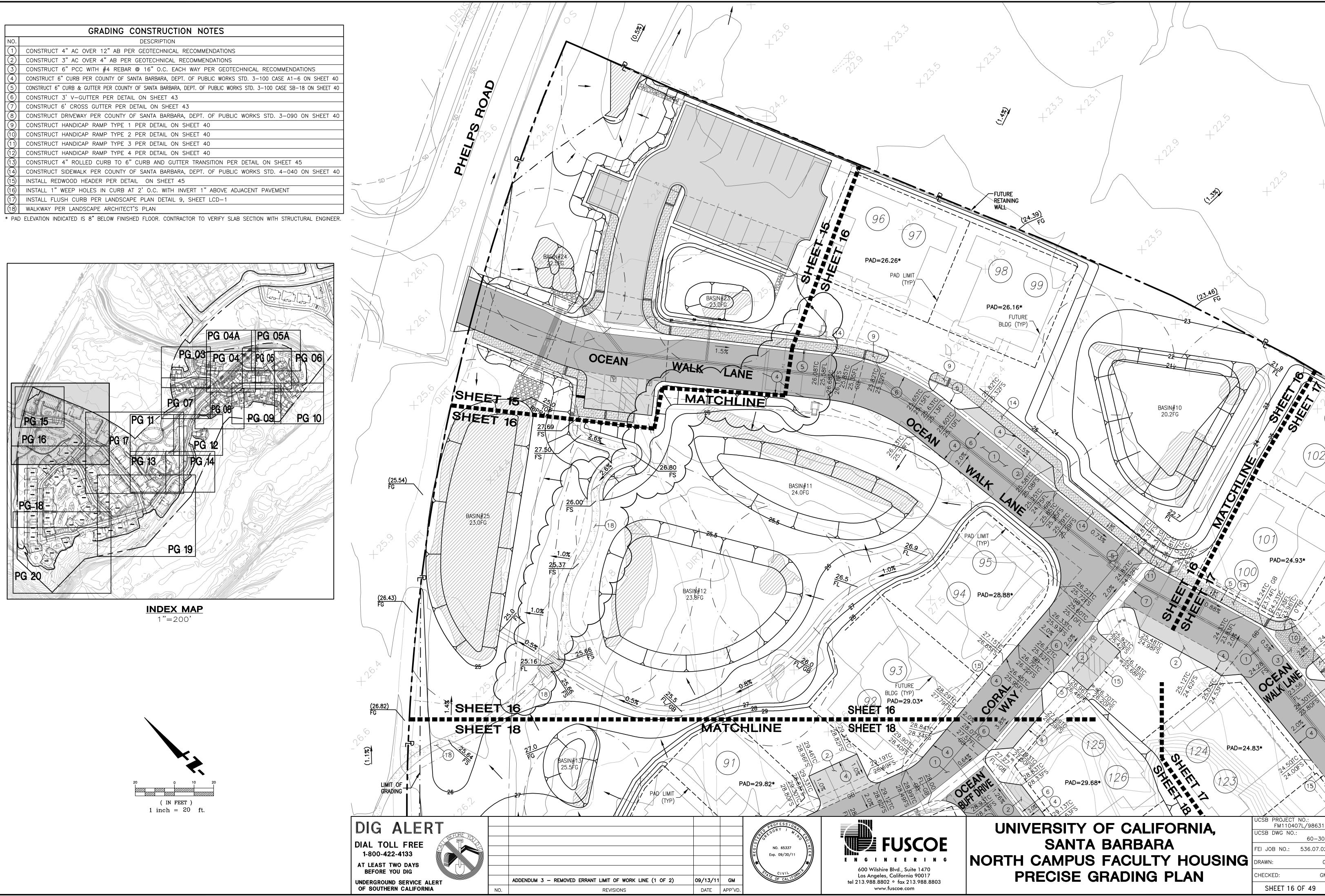
INTERIOR PALETTE #1

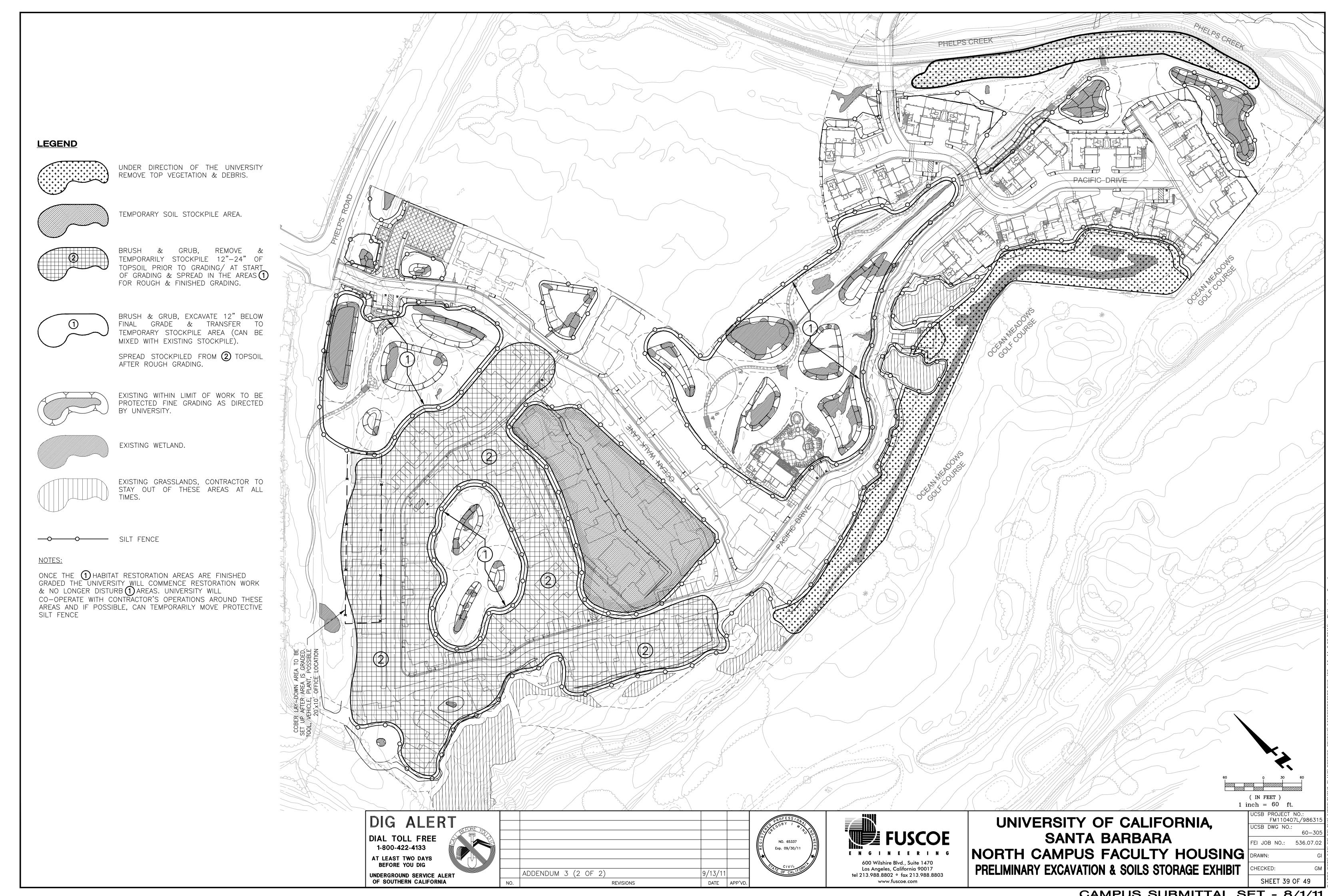
NORTH CAMPUS FACULTY HOUSING - PHASE II

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

REVISIONS:		
REVISION NO.	DATE	DESCRIPTION
1	7/27/11	Hardwood flooring width corrected.
2	9/13/11	Stair skirt board and wood stain color added.

www.wharchitects.com 6111 Bollinger Canyon Rd., Suite 495 San Ramon CA 94583 Tel 925 463 1700 Fax 925 463 1725 Tel 949 250 0607 Fax 949 250 1529 Tel 925 463 1700 Fax 925 463 1725



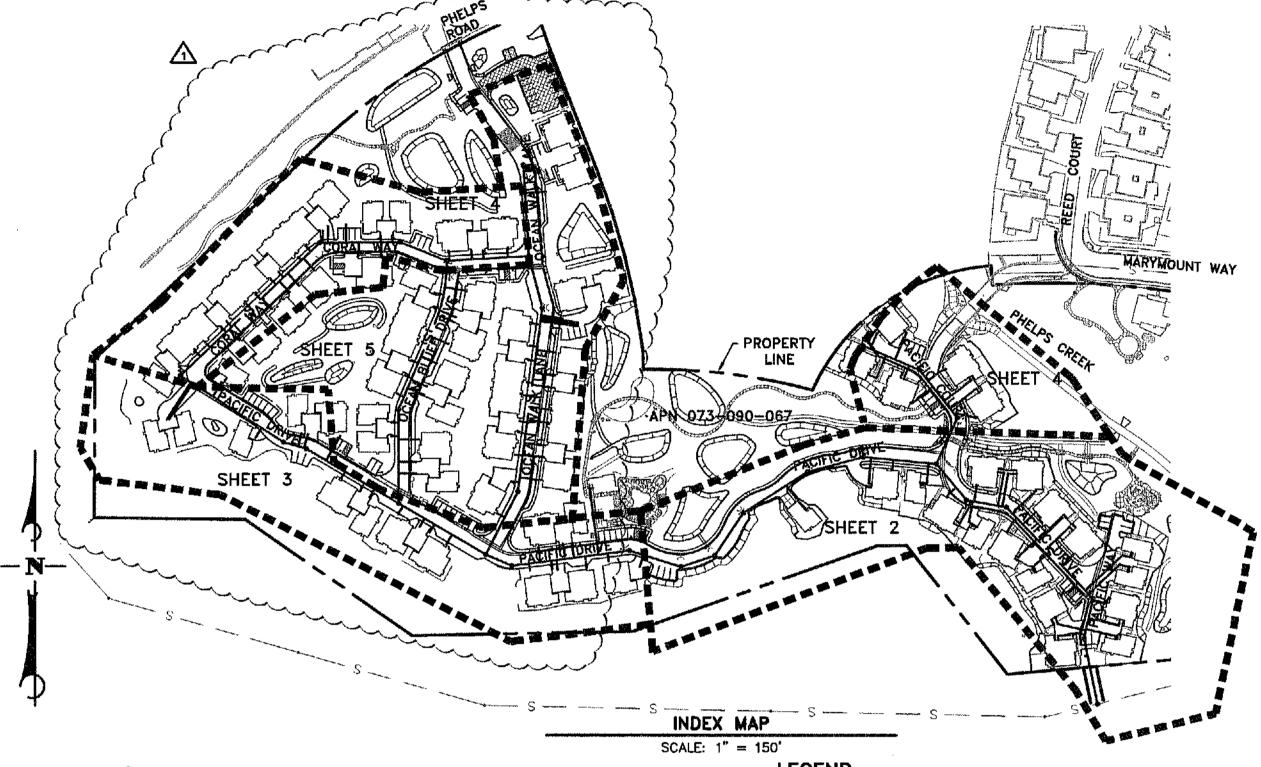


GENERAL SEWER NOTES

- ALL SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE GOLETA WEST SANITARY DISTRICT (DISTRICT) DESIGN AND CONSTRUCTION STANDARDS FOR SEWER FACILITIES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, CONSTRUCTION SAFETY ORDERS.
- NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL FROM THE GENERAL
- . CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH FACILITIES IN THE CONSTRUCTION AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1.
- COMMENCEMENT OF CONSTRUCTION SHALL NOT BEGIN UNTIL SUCH TIME THAT ALL REQUIRED
- CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD PROJECT ENGINEER AND DISTRICT HARMLESS FROM ALL LIABILITY AND CLAIMS, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF SAID
- BARRICADES, TRAFFIC CONTROL AND WARNING SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE CURRENT STATE TRAFFIC MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL REQUIRED TRAFFIC
- BEFORE COMMENCING EXCAVATION, CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY OR OTHER OWNER OF SUBSURFACE FACILITIES AND VERIFY WHETHER OR NOT A REPRESENTATIVE WILL BE PRESENT BEFORE AND/OR DURING EXCAVATION AND SHALL DETERMINE SPECIFIC REQUIREMENTS FOR EXCAVATION FROM THAT UTILITY COMPANY.
- EXISTING BURIED CONDUITS AND STRUCTURES KNOWN TO THE PROJECT ENGINEER ARE SHOWN ON THESE PLANS, HOWEVER, ALL SUCH CONDUITS AND STRUCTURES MANY NOT BE SHOWN AND THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE PREPARER OF THE PLANS. [ELECTRICAL CONDUITS AND WIRING WHICH EXIST BETWEEN STREET AND TRAFFIC LIGHTS ARE NOT SHOWN ON THESE PLANS.] CONTRACTOR SHALL INDEPENDENTLY VERIFY THE PRESENCE OF, BURIED CONDUITS AND STRUCTURES, BOTH ACTIVE AND ABANDONED-IN-PLACE AND, BEFORE COMMENCING WORK, CONTRACTOR SHALL DETERMINE THE EXACT LOCATION INCLUDING DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES, CONDUITS AND STRUCTURES, INCLUDING SERVICE CONNECTIONS, WHICH RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY RESULT BY CONTRACTOR'S FAILURE TO STRUCTURES. UPON ENCOUNTERING EXISTING BURIED CONDUITS OR STRUCTURES NOT SHOWN OR LOCATED DIFFERENTLY THAN SHOWN ON THE PLANS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER, THE DISTRICT AND THE OWNER OF THE CONDUIT OR STRUCTURE BY TELEPHONE AND IN WRITING. IF SUCH CONDUIT OR STRUCTURE AFFECTS OF IS AFFECTED BY THE WORK, CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION AND DIRECTION BEFORE PROCEEDING WITH THE WORK, EXCEPTING THAT IN AN EMERGENCY AFFECTING SAFETY OF LIFE, WORK OR ADJACENT PROPERTY, CONTRACTOR SHALL ACT AT ONCE WITHOUT INSTRUCTIONS TO PREVENT INJURY OR LOSS.
- 10. A COMPLETE SET OF DRAWINGS SHALL BE KEPT AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AS REQUIRED BY THE DISTRICT. THE PROJECT ENGINEER SHALL SUBMIT COMPLETE SET OF REPRODUCIBLE MYLAR DRAWINGS, SHOWING ALL CHANGES AND MARKED "RECORD DRAWINGS" AS REQUIRED BY THE DISTRICT. THE PROJECT ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO THESE PLANS. ALL CHANGED TO THESE PLANS MUST BE APPROVED IN WRITING BY THE
- 11. ALL WORK DONE PERTAINING TO SEWER FACILITIES CONSTRUCTION SHALL BE DONE BY A CONTRACTOR POSSESSING A VALID CLASS "A" OR "C-34" STATE OF CALIFORNIA CONTRACTORS
- 12. ALL PIPE MATERIAL SHALL CONFORM TO GOLETA WEST SANITARY DISTRICT STANDARD SPECIFICATIONS.
- 13. TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
- 14. ALL PAYING DONE IN CONJUNCTION WITH SEWER FACILITIES CONSTRUCTION SHALL CONFORM TO THE DISTRICT STANDARD SPECIFICATIONS AND COUNTY OF SANTA BARBARA DEPARTMENT OF
- 15. A FOUR (4) MIL PLASTIC TAPE WITH THE WORDS "SEWER LINE" PRINTED ON IT SHALL BE INSTALLED TWO (2) FEET ABOVE TOP OF CONSTRUCTED SEWER LINE.
- 16. ALL SEWER LINES SHALL BE CONSTRUCTED WITH A MINIMUM COVER AS REQUIRED IN THE DISTRICT STANDARD SPECIFICATIONS.
- 17. ALL PHASES OF THE WORK SHALL BE INSPECTED INCLUDING TRENCH ALIGNMENT, PIPE BEDDING, PIPE AND STRUCTURE INSTALLATION, PIPE HAUNCHING, INITIAL BACKFILL, AND FINAL
- 18. BEDDING AND BACKFILL SHALL BE TESTED AT INTERVALS SPECIFIED IN THE DISTRICT STANDARD SPECIFICATIONS.
- 19. ALL SEWER LINE IMPROVEMENTS AND EXTENSIONS SHALL BE TESTED PER DISTRICT STANDARD SPECIFICATIONS BEFORE DISTRICT ACCEPTANCE.
- 20. THE INVERT ELEVATIONS SHOWN ON THESE PLANS CORRESPOND TO THE LATERAL INVERTS, EXCEPT WHERE THE INVERT IS SHOWN AT THE MANHOLE.
- 21. DAMPPROOFING OF SEWER MANHOLE PER GWSD DESIGN AND CONSTRUCTION STANDARDS SECTION 3.2.4.: BRUSH OR SPRAY APPLIED DAMPPROOFING SHALL BE AN ASPHALT EMULSION REINFORCED WITH FIBERS CONFORMING TO ASTM D1227, TYPE II, CLASS 1. THE DAMPPROOFING SHALL BE HYDROCIDE 700B BY SONNEBORN BUILDING PRODUCTS, DIVISION OF CHEMREX INC., MINNEAPOLIS, MN; KARNAK 220 ASPHALT EMULSION BY KARNAK CORPORATION, CLARK, NJ OR

UCSB NORTH CAMPUS FACULTY HOUSING PHASE 2

SEWER SYSTEM IMPROVEMENTS



SURVEYOR'S NOTES

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=40', WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY ARROWHEAD MAPPING CORPORATION THE AERIAL PHOTOGRAPHY USED FOR THIS MAP IS

THIS AERIAL PHOTOGRAPHY COMPLIES WITH THE NATIONAL MAP ACCURACY STANDARDS VERTICAL ACCURACY - 90% OF THE POINTS TESTED SHALL BE WITHIN ONE-HALF OF THE

CONTOUR INTERVAL. THE REMAINING 10% OF THE POINTS SHALL NOT EXCEED ONE HORIZONTAL ACCURACY - 90% OF THE POINTS TESTED SHALL BE WITHIN 1/50TH OF AN INCH AT THE MAP SCALE, THE REMAINING 10% OF THE POINTS SHALL NOT EXCEED

AERIAL PHOTDGRAPHY

THE AERIAL PHOTOGRAPHY USED AS THE BACKGROUND FOR THIS MAP WAS OBTAINED ON JUNE 13, 2006 BY ARROWHEAD MAPPING CORPORATION, THE PHOTOGRAPHY HAS BEEN CONVERTED INTO A DIGITAL FORMAT AND CORRECTED FOR HORIZONTAL AND VERTICAL DISTORTION USING STANDARD PHOTOGRAMMETRIC METHODS.

2. BASIS OF BEARINGS AND COORDINATES

1/30TH OF AN INCH AT THE MAP SCALE.

BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, NAD 83, (CCS83) ZONE 5 GRID (EPOCH 2004.0), DEFINED LOCALLY BY CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) OPERATED BY THE CALIFORNIA SPATIAL REFERENCE CENTER. THIS SURVEY TIED TO STATIONS "COPR" AND "UCSP".

ALL DISTANCES AND COORDINATES SHOWN AS MEASURED OR CALCULATED ARE EXPRESSED IN CCS. NAD 83, ZONE V GRID US SURVEY FOOT UNITS.

THE SITE COMBINATION FACTOR IS 0.99994277 AND THE SITE MAPPING ANGLE IS -1°03'57.07", BOTH CALCULATED AT UCSB CONTROL STATION 7. SEE UCSB CONTROL NETWORK DRAWING ON FILE WITH THE UNIVERSITY AS DRAWING NUMBER 30-169. TO OBTAIN GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.00005723, WHICH IS THE INVERSE OF THE PROJECT COMBINATION FACTOR. TO OBTAIN TRUE NORTH BEARINGS, ADD THE MAPPING ANGLE TO THE GRID BEARINGS.

SEE CONTROL POINT LISTING.

3. ELEVATIONS

ELEVATIONS SHOWN HERON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), DEFINED LOCALLY BY CONTINUOUSLY OPERATING REFERENCE STATION, "COPR", OPERATED BY THE CALIFORNIA SPATIAL REFERENCE CENTER. http://csrc.ucsd.edu/ ELEVATION=45.35 FEET (AT THE GEODETIC REFERENCE MARK)

SEE CONTROL POINT LISTING

4. TOTAL SITE ACREAGE = 26.4 AC

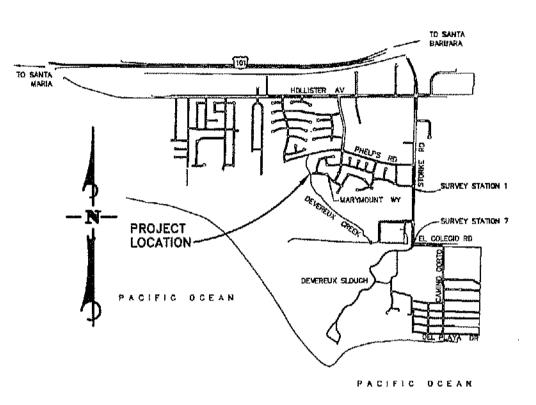
ABBREVIATIONS

AC	ASPHALT CONCRETE	FOC	FIBER OPTIC CABLE
BW	BACK OF WALK	FS	FINISHED SURFACE
CATV	CABLE TV	N'LY	NORTHERLY
CB	CATCH BASIN	NE'LY	NORTHEASTERLY
CL	CENTERLINE	NWLY	NORTHWESTERLY
CLF	CHAIN LINK FENCE	N	NORTH
CMP	CORRUGATED METAL PIPE	OAK	OAK TREE
CO	CLEAN OUT	PB	PULLBOX
COMM	COMMUNICATIONS	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	S'LY	SOUTHERLY
CP	CONTROL POINT	SE'LY	SOUTHEASTERLY
CYP	CYPRESS	SWLY	SOUTHWESTERLY
Dŧ	DRAIN INLET	S	SOUTH
DIP	DUCTILE IRON PIPE	SS	SANITARY SEWER
E'LY	EASTERLY	SD	STORM DRAIN
Ε	EAST	TC	TOP OF CURB
EΡ	EDGE OF PAVEMENT	T G	TOP OF GRADE
ELEC	ELECTRICITY	TS	TRAFFIC SIGNAL
EUC	EUCALYPTUS TREE	TW	TOP OF WALL
FC	FACE OF CURB	ŲNK	UNKNOWN
FF	FINISHED FLOOR	W	WEST
FL	FLOW LINE	WLY	WESTERLY

LINETYPES

	RIGHT OF WAY LINE		
→ → 	FLOWLINE		
2527	CONTOUR LINE		
	CURB		
	EASEMENT FOR GWSD		
	EDGE OF PAVEMENT		
·····	FENCE		
<u></u>	EXISTING ELECTRIC		
G	EXISTING NATURAL GAS		
S	EXISTING SANITARY SEWER		
SD	EXISTING STORM DRAIN		
W	EXISTING WATER		
The second secon	WALL		
W	PROPOSED WATER		
E	PROPOSED ELECTRIC		
G	PROPOSED NATURAL GAS		
s	PROPOSED SANITARY SEWER		
	PROPOSED STORM DRAIN		

LOCATION MAP



VICINITY MAP

STATION DESCRIPTIONS

- 2" DIAMETER BRASS CAP MARKED "UCSB CONTROL STATION 1, PLS 6167 PLS 7807" AND CENTER PUNCHED, IN THE CENTERLINE OF A CONCRETE MEDIAN STRIP ON STORKE ROAD, APPROX. 60 FEET S'LY OF THE APPARENT CENTERLINE OF WHITTIER DRIVE.
- 2" DIAMETER BRASS CAP MARKED "UCSB CONTROL STATION 7, PLS 6167 PLS 7807" AND CENTER PUNCHED. IN TOP OF CONCRETE CURB ON THE W'LY SIDE OF STORKE ROAD, AT THE APPARENT CENTERLINE OF EL COLEGIO ROAD. APPROX. 12 FEET SE'LY OF A TRAFFIC LIGHT POLE.

CONTROL POINTS

STATION	NORTHING	EASTING	ELEVATION	
1	1981286.26	5997841.47	20.20	
2	1979534.84	5997762.90	38.62	

INDEX TO SHEETS

- 1. TITLE SHEET, NOTES, AND INDEX MAP
- 2. LINE "C" STA 1+00 TO 12+00 PLAN AND PROFILE
- 3. LINE "C" STA 12+00 TO 19+29.21 PLAN AND PROFILE
- 4. LINE "D" AND "G" PLAN AND PROFILE
- 5. LINE "E" AND "F" PLAN AND PROFILE
- 6. SEWER EASEMENT



SHEET

UNIVERSITY OF CALIFORNIA. SANTA BARBARA NORTH CAMPUS FACULTY HOUSING

OF 6 SHEETS UCSB DWG NO.

60-305

SEWER IMPROVEMENT PLANS TITLE SHEET. NOTES. AND INDEX MAP

1" = 100'-0" 9/9/11 ADDENDUM NO. 3 PROFILE SCALE: GWSD SUBMITTAL HORIZ.: <u>1"=100'</u> CAMPUS SUBMITTAL SET VERT.: 1"=100' DESCRIPTION REV | DATE | BY |

GRAPHIC SCALE: THIS BAR DOES NOT MEASURE 1" THE DRAWING IS NOT TO SCALE

PLAN SCALE:

DESIGNED BY: CEP DRAWN BY: CHECKED BY: SCW





Penfield & Smith Engineering · Surveying · Planning Construction Management

Santa Barbara, CA 93101 Fax: (805) 966-9801

CARRIE E. POYTRESS DATE: 9/9/11 PROJECT ENGINEER R.C.E. 70,345

DESIGN CEP CHECKED SCW

GENERAL MANAGER / SUPERINTENDENT

GOLETA WEST SANITARY DISTRICT

DATE

