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<td><strong>Docket Number:</strong> 19-SPPE-02</td>
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<td><strong>Project Title:</strong> Walsh Data Center</td>
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<td><strong>TN #:</strong> 229561</td>
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<td><strong>Document Title:</strong> PCC Drawings to Present at 82719 Status Conference</td>
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<td><strong>Description:</strong> N/A</td>
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<td><strong>Filer:</strong> Scott Galati</td>
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<td><strong>Organization:</strong> DayZenLLC</td>
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<td><strong>Submitter Role:</strong> Applicant Representative</td>
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<td><strong>Submission Date:</strong> 8/27/2019 3:59:01 PM</td>
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CONSTRUCTION OF A NEW 4 STORY BUILDING FOR A DATA CENTER CONSISTING OF A LOBBY, TOILET ROOMS, A SHOWER, OFFICES, SECURITY ROOM, CONFERENCE ROOMS, BREAK ROOM AREA, POP ROOMS, PRE-ACTION, LOADING AREA & STORAGE. EXTERIOR WORK INCLUDES SCREENED GENERATOR YARD, SUBSTATION YARD, PARKING LOT, LANDSCAPING, SITE DRAINAGE SYSTEM AND LOADING DOCK.

ARCHITECT:
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SITE: 651 WALSH AVE
PROJECT: DIGITAL REALTY (651 WALSH AVE)
BUILDING ADDRESS: 651 WALSH AVE, SANTA CLARA, CA 95050
NUMBER OF STORIES: 4 STORIES ABOVE GROUND, LESS THAN 87.5 FEET IN HEIGHT
OCCUPANCY USE GROUP: B - BUSINESS, S -2 - Low Hazard Storage
CONSTRUCTION TYPE: TYPE II B, FULLY SPRINKLERED, CBC  602.2
BUILDING AREA - FIRST FLOOR AREA : 113,325 SF
SECOND FLOOR AREA : 113,000 SF
THIRD FLOOR AREA: 95,400 SF
FORTH FLOOR AREA: 95,400 SF
4 STORIES BUILDING : 435,050 SF
SITE AREA: 7.87 ACRES (342,817 SF)
BUILDING COVERAGE : 33%

ADOPTED CODES:
2016 CALIFORNIA BUILDING CODE  AND LOCAL AMENDMENTS
2016 CALIFORNIA FIRE CODE  AND LOCAL AMENDMENTS
2016 CALIFORNIA PLUMBING CODE  AND LOCAL AMENDMENTS
2016 CALIFORNIA MECHANICAL CODE  AND LOCAL AMENDMENTS
2014 NATIONAL ELECTRICAL SAFETY CODE - ANSI/IEEE C2
2016 CALIFORNIA ELECTRICAL CODE
2013 NATIONAL FIRE ALARM CODE - NFPA 72
2016 CALIFORNIA BUILDING CODE, TITLE 24 AND CHAPTER 11B ACCESSIBILITY
2016 CALIFORNIA HISTORICAL BUILDING CODE
2016 CALIFORNIA ENERGY CODE (TITLE 24)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
2016 CALIFORNIA EXISTING BUILDING CODE

PROPOSED HVAC SYSTEM:
THE FOUR STORY DATA CENTER PORTION OF THE BUILDING CONTAINS 13 M W OF IT EQUIPMENT PER FLOOR, OR 52 MW TOTAL. THIS IT PROCESS LOAD WILL REQUIRE A TOTAL OF 16,000 TONS OF COOLING. THESE SYSTEMS WILL BE DESIGNED TO MEET THE REQUIREMENTS OF TITLE 24 – SECTION 140.9 – PRESCRIPTIVE REQUIREMENTS FOR COVERED PROCESSES. THERE ARE NO LIMITATIONS ON AIR COoled EQUIPMENT UNDER SECTION 140.9 AND WE INTEND TO USE A COMBINATION OF AIR COoled DX AND AIR COoled CHILLED WATER EQUIPMENT TO SERVE THE LOAD. TITLE 24 SECTION 140.9 REQUIRES ECOnOMIZERS AND HOT/COLD AISLE CONTainment. WE PLAN ON USING HOT/COLD AISLE CONTainment AND DESIGNING THE EQUIPMENT SO THAT THE COMPRESSORS ARE NOT NEEDED TO MEET THE LOAD AT THE PRESCRIBED ECONOMIZING TEMPERATURES. AIR DISTRIBUTION WILL BE FROM DOWN DISCHARGE CRAC AND CRAH UNITS SERVING UNDERFLOOR PLENUMS. THE CEILING WILL FORM A RETURN AIR PLENUM BACK TO THE UNITS. ALL SPECIAL DATA CENTER EQUIPMENT WILL BE CERTIFIED BY TITLE 24 FOR COMPLIANCE WITH THE CODE. THE OUTSIDE AIR AND BUILDING PRESSURIZATION REQUIREMENTS WILL BE MET BY 100% DEDICATED OUTSIDE AIR SYSTEMS. THESE SYSTEMS WILL BE MOPTIMIZED TO MEET THE ASHRAE AND LOCAL CODES AND STANDARDS. THE AIR DISTRIBUTION SYSTEMS WILL BE DESIGNED TO USE LOW TEMP. WATER AS THE HEAT SOURCE AND LOW TEMP. WATER AS THE HEAT SINK.

THE OFFICE AREA WILL BE DESIGNED TO MEET THE REQUIREMENTS OF TITLE 24 SECTION 140.4. THE THREE STORY OFFICE AREA WILL BE SERVED BY HIGH EFFICIENCY ROOF TOP UNITS WITH AIR ECONOMIZERS. OUTSIDE AIR WILL BE DRAINED THROUGH THE ROOF TOP UNITS. INSTALLATION AND OPERATIONS REQUIREMENTS WILL BE MET TO MINIMIZE HVAC SYSTEMS COSTS.