

# CITY OF ALBUQUERQUE

*Planning Department*  
Suzanne Lubar, Director



*Mayor Richard J. Berry*

April 27, 2016

Philip W. Clark, PE  
Clark Consulting Engineers  
19 Ryan Rd  
Edgewood, NM 87015

**Re: Frank Sanchez Warehouse**  
**2339 2<sup>nd</sup> St. NW**  
**Request Permanent CO - Accepted**  
**Engineer's Stamp dated: 12-8-15 (M14D029A)**  
**Certification dated: 4-12-16**

Dear Mr. Clark,

PO Box 1293

Based on the Certification received 4/15/2016, the site is acceptable for release of permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3686 or Totten Elliott at 924-3982.

New Mexico 87103

Sincerely,

www.cabq.gov

Abiel Carrillo, P.E.  
Principal Engineer, Planning Department  
Development and Review Services

TE/AC

C: email      Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker,  
Lois



SUBJECT PROPERTY IS NOT ADJACENT TO A FLOOD HAZARD ZONE.  
IT IS WITHIN A SHADDED ZONE X.

FIRM MAP      PANEL # 342 G

GRADING & DRAINAGE PLAN

THE WAREHOUSE-MANUFACTURING PROJECT IS LOCATED IN THE SOUTHWESTERN VALLEY AREA OF ALBUQUERQUE, APPROXIMATELY 2 MILES SOUTH OF THE DOWNTOWN CORE OF ALBUQUERQUE, N.M. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS, AND EXISTING IMPROVEMENTS, INCLUDING UTILITIES, AND EXISTING POND
2. PROPOSED IMPROVEMENTS: TWO 4050 SF METAL WAREHOUSE STORAGE BUILDINGS, ASPHALT/CONC. PARKING, GRAVEL DRIVES, NEW GRADE ELEVATIONS, FLATWORK AND LANDSCAPING.
3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4. QUANTIFICATION AND ACCEPTANCE OF ALL ON-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS ROUTED TO RETENTION POND.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS LOCATED ON THE NORTH SIDE OF SECOND STREET, AND THE PROPERTY IS BOUNDED BY THE CITY OF ALBUQUERQUE. THE SITE CURRENTLY DRAINS AT 1-2% FROM SOUTH TO NORTH. HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED, SINCE SECOND STREET IS IMPROVED ONLY MINIMAL GRADING (DRIVEWAY CONST-R-N) IS PROPOSED WITHIN THE CITY R.O.W. THE CURRENT POND WILL BE RECONFIGURED SLIGHTLY. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWS. MINIMAL RUN-OFF ENTERS FROM THE CENTRELINE OF SECOND ST. ALONG PORTIONS OF THE FRONTAGE.

CALCULATIONS

**DESIGN CRITERIA**  
HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE ADOPTED BY THE COUNTY OF BERNALILLO  
DISCHARGE RATE: Q=QPEAK x AREA, \*Peak Discharge Rates For Small Watersheds\*  
VOLUMETRIC DISCHARGE: VOLUME = Eweighted x AREA  
P100 = 2.35 inches, Zone 2 P10-Day = 3.95" Time of Concentration, TC = 10 Minutes  
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [ ] = 10 YEAR VALUES

**EXISTING CONDITIONS**  
LOT AREA = 0.94 ACRES, WHERE EXCESS PRECIP. A' = 0.53 in. [0.13]  
PEAK DISCHARGE, Q100 = 1.5 CFS [0.4] WHERE UNIT PEAK DISCHARGE A' = 1.56 CFS/AC. [0.38]  
THEREFORE, VOLUME 100 = 1808 CF [443]

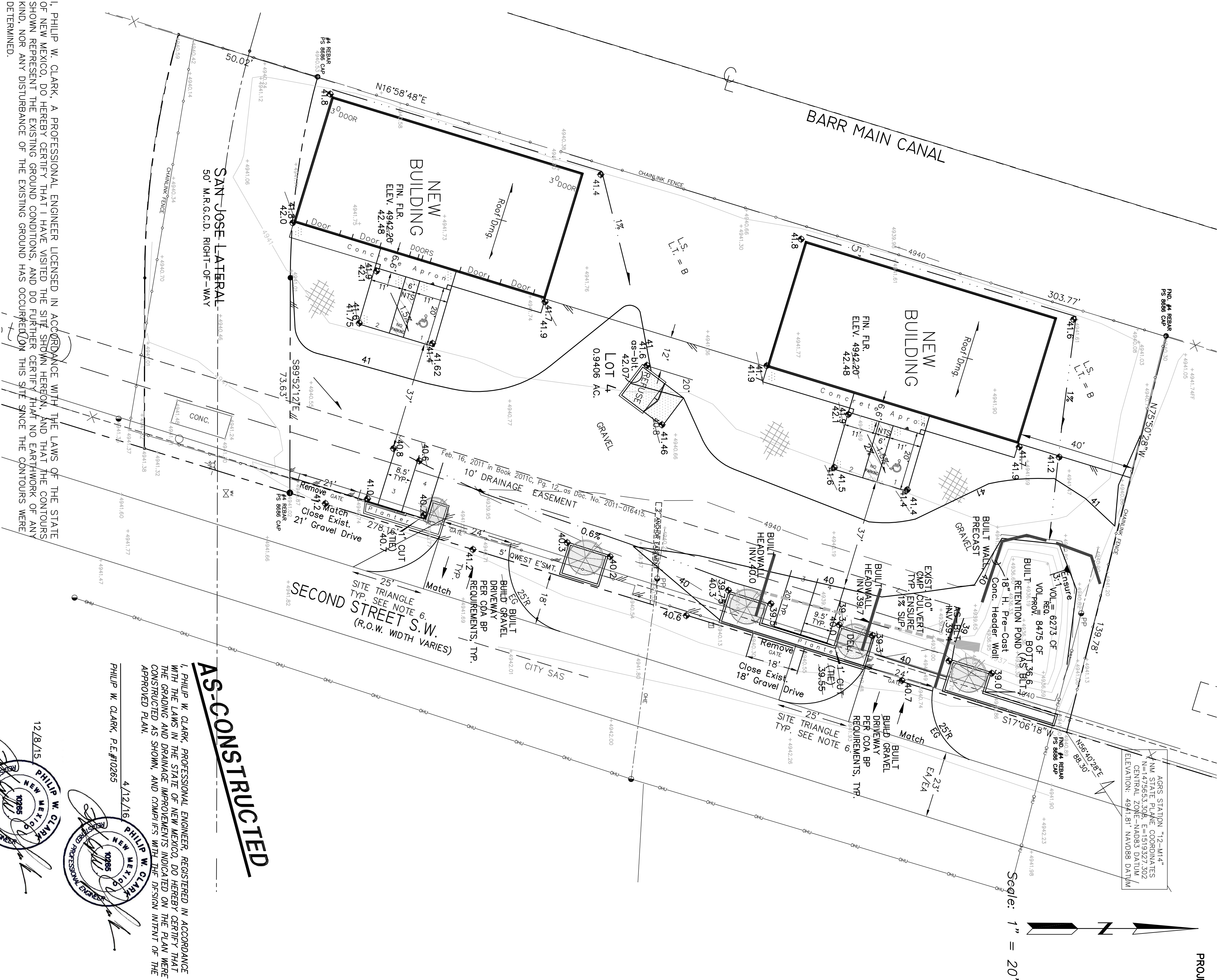
**DEVELOPED CONDITIONS**  
DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

AREA	LAND TREATMENT	Q Peak	E
UNDEVELOPED/POND	0.99 Ac.(15%)	1.56[0.38]	0.53[0.13]
LANDSCAPING	0.99 Ac.(15%)	2.28[0.95]	0.78[0.28]
GRAVEL & COMPACTED SOIL	2.24 Ac.(34%)	3.14[1.71]	1.13[0.52]
ROOF - PAVEMENT	2.38 Ac.(36%)	4.70[3.14]	2.12[1.34]
THEREFORE, Eweighted = 1.43 in.[0.44] &			
Q100 = 3.47 CFS			
VOLUME 100 = 4079 CF			
Q10 = 3x CFS			
VOLUME 10 = 1223 CF			

SIZE REQUIRED RETENTION POND

Vol 100/(req) = 4079 CF  
Vol 10-Day = Vol 100/(req) + Area D' (P10-Day - P 100 ) /12  
= 4879 CF + 0.24(16)/12+43560 = 6273 CF

RECOMMEND : 1) ROUTE DEVELOPED RUNOFF THROUGH EXISTING/UPGRADED SOFT LANDSCAPING INCLUDING DEPRESSED LANDSCAPING  
2) DEPRESSED LANDSCAPING SHALL RETAIN THE "FIRST FLUSH" VOLUME OF: 0.1725 INCHES X LOT AREA (SF)/12 = 0.11 x 0.94 (43560/12) = 384 CF

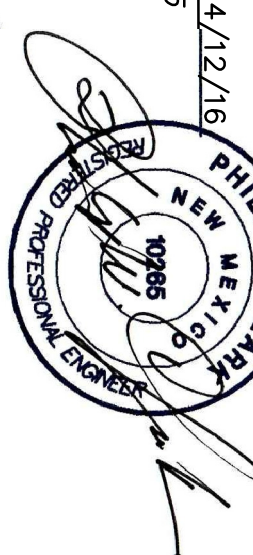


Scale: 1" = 20'

AS-CONSTRUCTED

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE ENGINEERING ACT OF 1965, HEREBY CERTIFY THAT I HAVE LISTED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND THAT THE CONTOURS KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK, P.E.#10265



NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 1986, 9TH UPDATE.
2. AN EXCAVATION /CONSTRUCTION DEBIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL, ASPHALT/GRAVEL PARKING AREA SHALL DRAIN DIRECTLY TO NEW RETENTION POND
5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL, TO 1 VERTICAL, 3:1. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

- EXIST. SPOT ELEVATION +24.0
- EXIST. CONTOUR 10
- NEW SPOT ELEVATION 24.0
- NEW CONTOUR 12
- NEW SHALE DRAINAGE DIRECTION, EXISTING
- NEW CONCRETE CURB OR R.R. TIE (0.5' HEIGHT)
- NEW P.C.C., CONCRETE
- FLOWLINE
- EXISTING POWER POLE
- EDGE OF ASPHALT
- TYPE 'W', RIPRAP, 6" BURY (AVG. DIA. 4")
- FL
- O.P.P.
- EA

PROJECT DATA

**LEGAL DESCRIPTION**  
LOT 4, LANDS OF FRANK S. SANCHEZ  
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO  
**PROJECT BENCHMARK**  
TOP OF AGES MONUMENT OFF THE PROJECT NORTHEAST CORNER.  
ELEVATION = 4941.81, SEE PLAN. NO.1008.  
**TOPOGRAPHIC DESIGN SURVEY**  
PROVIDED BY ALPHA PRO SURVEYING, LLC. DATED NOVEMBER 2015

Clark Consulting Engineers

19 Ryan Road

Edgewood, New Mexico 87015

Tele: (505) 281-2444

DATE: 12/7/15

REVISION: 12/7/15

UPDATED TOPO

ADD HEADER WALL

AND REUSE

2339 SECOND STREET, SW

A FRANK SANCHEZ DEVELOPMENT

Grading & Drainage Plan

DESIGNED BY: PWC

DRAWN BY: CCE

CHECKED BY: PWC

DATE: NOV2015

FILE # C/D

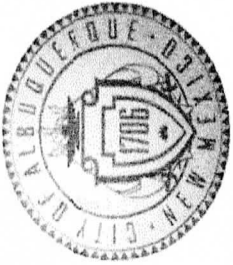
JOB # SANCHEZ, FRA

1 OF 1



VICINITY MAP ZONE M-14





# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

92854

Project Title: Frank Sanchez Warehouse Building Permit #: 72015 City Drainage #: M.14/D0029A

DRB#:

EPC#:

Work Order#:

Legal Description:

City Address:

2339 2nd St. SW

Engineering Firm:

Clark Consulting Engineers

Contact:

Phil Clark

Address:

19 Ryan Rd. Edgewood, NM 87015

Phone#:

Fax#:

E-mail:

CCEa16g@aol.com

Owner:

Contact:

Address:

Phone#:

Fax#:

E-mail:

Architect:

Address:

Phone#:

Fax#:

E-mail:

Other Contact:

Address:

Phone#:

Fax#:

E-mail:

Check all that Apply:

### DEPARTMENT:

- ☒ HYDROLOGY/DRAINAGE  
☒ TRAFFIC/TRANSPORTATION  
☐ MS4/ EROSION & SEDIMENT CONTROL

### TYPE OF SUBMITTAL:

- ☒ ENGINEER/ARCHITECT CERTIFICATION

- ☐ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
☐ DRAINAGE MASTER PLAN  
☐ DRAINAGE REPORT  
☐ CLOMR/LOMR

- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL? ☒ Yes ☐ No

DATE SUBMITTED: 4/18/16 4/14/16 By: Phil

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

### CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL  
☒ CERTIFICATE OF OCCUPANCY

- ☐ PRELIMINARY PLAT APPROVAL  
☐ SITE PLAN FOR SUB'D APPROVAL  
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE  
☐ FOUNDATION PERMIT APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ SO-19 APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ GRADING/PAD CERTIFICATION  
☐ WORK ORDER APPROVAL  
☐ CLOMR/LOMR

- ☐ PRE-DESIGN MEETING  
☐ OTHER (SPECIFY) \_\_\_\_\_