

## Chollas Crane Replacement

## SHEET INDEX

- | SHEET NO. | DISCIPLINE CODE | TITLE                             |
|-----------|-----------------|-----------------------------------|
| 1         | G-1             | TITLE SHEET                       |
| 2         | G-2             | GENERAL NOTES                     |
| 3         | G-3             | STORM WATER NOTES                 |
| 4         | AS-1            | SITE PLAN                         |
| 5         | A-1             | DEMOLITION FLOOR PLAN             |
| 6         | A-2             | NEW FLOOR PLAN                    |
| 7         | A-3             | ELEVATIONS                        |
| 8         | A-4             | SECTIONS                          |
| 9         | A-5             | DETAILS                           |
| 10        | S-1             | GENERAL NOTES                     |
| 11        | S-2             | GENERAL NOTES                     |
| 12        | S-3             | FOUNDATION PLAN                   |
| 13        | S-4             | ROOF PLAN                         |
| 14        | S-5             | CRANE SECTION                     |
| 15        | S-6             | NEW CRANE SUPPORT DETAILS         |
| 16        | S-7             | EXISTING BUILDING DETAILS         |
| 17        | E-1             | ELECTRICAL LEGEND & GENERAL NOTES |
| 18        | E-2             | ELECTRICAL DEMOLITION FLOOR PLAN  |
| 19        | E-3             | ELECTRICAL FLOOR PLAN             |
| 20        | E-4             | ENLARGED FLOOR PLAN - ELEC. ROOM  |
| 21        | E-5             | PANEL SCHEDULE                    |
| 22        | E-6             | SINGLE LINE DIAGRAM               |

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF THE TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (CCR):

2019 BUILDING STANDARDS ADMINISTRATIVE CODE PART 1, TITLE 24 C.C.R.

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;

2019 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 C.C.R.;

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;

2019 CALIFORNIA ENERGY CODE (CPC), PART 6, TITLE 24 C.C.R.;

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.;

2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

2019 TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2006 NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS

2008 NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

REFERENCE CODE SECTION FOR NFPA STANDARDS – CBC (SFM) 3504.1

AMERICAN WITH DISABILITIES ACT (ADA), TITLE II, ADA STANDARDS FOR ACCESSIBLE DESIGN

## DATE \_\_\_\_\_

G-1

## Engineering & Capital Projects

CONTRACTOR  
INSPECTOR

DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_

DATE STARTED _____	41951- 1 -D
DATE COMPLETED _____	

PTS: 667514



GENERAL NOTES

1. THE PROJECT SPECIFICATIONS ISSUED AS PART OF THESE CONSTRUCTION DOCUMENTS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THAT ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND FEDERAL REQUIREMENTS AND REGULATIONS.

3. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, GRADES, ELEVATIONS, SITE CONSTRAINTS, STAGING AREAS AND DIMENSIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

5. CONTRACTOR SHALL DOCUMENT EXISTING SITE CONDITIONS BY VIDEO AND PICTURES BEFORE DISTURBANCE AND SUBMIT RECORDS TO RESIDENT ENGINEER.

6. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO THE BEGINNING OF EXCAVATION. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES, SERVICE LINES TO REMAIN WHICH ARE ENCOUNTERED DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.

8. DO NOT SCALE ANY DRAWINGS IN THIS SET.

9. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

10. SURVEY - CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SURVEYING.

11. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. NO CHANGES ARE TO BE MADE UNLESS THE ARCHITECT AND THE OWNER ARE NOTIFIED IN WRITING AND APPROVE SUCH A CHANGE ACCORDING TO THE CONTRACT.

12. THE ARCHITECT IS NOT RESPONSIBLE FOR ASBESTOS ABATEMENT OR ANY OTHER HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, CONTRACTOR SHALL CONTACT THE RESIDENT ENGINEER.

13. CONTRACTOR SHALL COMPLY AND WORK COOPERATIVELY WITH THE CHOLLAS YARD SECURITY REQUIREMENTS.

14. DURING CONSTRUCTION PERIOD, MATERIALS OF CONSTRUCTION SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. THE LOAD SHALL NOT EXCEED THE DESIGN LIVE LOADS FOR EACH PARTICULAR LEVEL.

15. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE OWNER, AND THE ARCHITECT ONLY UPON SUBMITTALS, AND FOR A LIMITED PERIOD.

16. ITEMS SHOWN AS N.I.C. ON PLANS MAY REQUIRE SEPARATE SUBMITTALS, APPROVALS AND PERMITS. INSTALLING CONTRACTOR(S) IS RESPONSIBLE FOR OBTAINING PERMITS FOR SUCH ITEMS.

17. NOT USED.

18. PAINT ALL NEW SERVICES THAT ARE NOT FACTORY FINISH TO MATCH EXISTING COLORS.

19. CONTRACTOR SHALL ENSURE ALL FINISH MATERIALS BE FLUSH WHERE NEW FINISH SURFACE MATERIAL JOIN EXISTING TO PROVIDE SMOOTH TRANSITION.

20. NOT USED.

21. NOT USED.

22. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

23. TACTILE EXIT SIGNS SHALL BE REQUIRED PER CBC 11B-703.2

24. CLASS I, II AND III- A LIQUIDS SHALL NOT BE PLACED OR STORED IN ANY OF GROUP "A" OCCUPANCY (CBC SECTION 307.8).

25. NO HAZARDOUS MATERIALS THAT EXCEED THE QUANTITIES LISTED IN UBC TABLES 3D & 3E WILL BE STORED AND OR USED WITHIN BUILDINGS.

26. NOT USED.

27. NOT USED.

28. NOT USED.

FIRE PROTECTION NOTES

1. NOT USED.

2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. NO DEAD BOLTS, NO SLIDING BOLTS, ETC.

3. FIRE ALARM SYSTEM SHALL BE OPERABLE AT ALL TIMES. MANUAL PULL STATIONS SHALL BE LOCATED AS REQUIRED. CBC SECTION 907.4.2

4. INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF CH. 8, CBC 2016 EDITION.

5. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. (C.C.R. T-19, SEC. 1.14, 3.08, 3.21, AND C.F.C. SEC. 1103.3.3).

6.THE CONSTRUCTION,REMODEL,OR DEMO. OF A BLDG. SHALL COMPLY WITH CFC ARTICLE 87.

7. FIRE HYDRANTS SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS.

8. WHEN SERVING MORE THAN 100 SPRINKLER HEADS, AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE, STATION SERVICE, OR SHALL BE PROVIDED WITH A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION PER SECTION 903.4.

9. CONTRACTOR SHALL PROVIDE PROPER FIRE TRUCK ACCESS AND FIRE EXITS DURING CONSTRUCTION AT ALL TIMES.

10. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714 AND 715.

11. AUDIBLE AND VISUAL ALARMS WILL COMPLY WITH THE PROVISIONS OF NFPA 72G.

12. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803-11.

13.FOAM PLASTICS SHALL NOT BE USED AS INTERIOR FINISH EXCEPT AS PROVIDED IN SEC. 2604.

14. MANUAL FIRE ALARM BOXES ARE NOT REQUIRED FOR GROUP-A OCCUPANCIES WHERE THE BUILDING SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW. (CBC 907.2.1)

15. PER SECTION 1009.8, WHEN SPRINKLER OR FIRE ALARMS ARE PROVIDED, THEY SHALL COMPLY WITH THE CBC, CHAPTER 35.

16. APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF NFPA 72G IN THE FOLLOWING AREAS: RESTROOMS, MULTIPURPOSE ROOMS, OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM, LOBBIES, MEETING ROOMS, AND ANY OTHER AREA FOR COMMON USE. SECTION 3501.1. AMENDMENT TO SECTION 6-4.5.

17. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC 1415.1

18. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 14. WELDING, CUTTING, AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CDC CHAPTER 26.

19. ADDRESS IDENTIFICATION SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A LOCATION THAT IS PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. WHERE ACCESS IS BY WAY OF PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, AN APPROVED SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE.

20. WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE INTERIOR FINISH CLASSIFICATIONS IN CBC TABLE 803.3AND SHALL MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHAL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE CITY OF SAN DIEGO.

21. DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR IIA STRUCTURE SEPARATED BY 10 FEET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE OF NON- OR LIMITED COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED.CFC 304.3

22. EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS OR OTHER DECORATIVE MATERIAL..

23. OPEN FLAMES, FIRE, AND BURNING ON PREMISES IS PROHIBITED.

24. THE EGRESS PATH SHALL REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. NO STORAGE IS PERMITTED IN ANY EGRESS PATHS.

25. NOT USED.

CAL. GREEN BUILDING STANDARD.

1. IN ORDER TO COMPLY WITH ALL MANDATORY REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE, THE PROJECT MUST MEET ALL OF THE REQUIREMENTS OF DIVISIONS 5.1 THROUGH 5.5.

2. NOT USED.

3. NOT USED.

4. ADHESIVES, SEALANTS, CAULKS. ADHESIVES AND SEALANTS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS. (SECTION 5.504.4.1 OF CAL GREEN) ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2 OF CAL GREEN.

5. A LETTER FROM THE CONTRACTOR OR BUILDING OWNER CERTIFYING WHAT MATERIAL HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR.

6. AEROSOL ADHESIVES, AND SMALLER SIZE UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REOUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

7. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH TABLE 5.504.4.2 UNLESS MORE STRINGENT LOCAL LIMITS APPLY.

8. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES (CCR, TITLE 17, COMMENCING WITH SECTION 94507.

9. NOT USED.

10. NOT USED.

11. NOT USED.

12. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

13. SMOKING PROHIBITED WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, AND IN BUILDINGS.

DEFERRED SUBMITTALS BY CONTRACTOR

1. 2-TON BRIDGE CRANE SUBMITTAL

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
-	-
-	-
-	-
-	-

CONSULTANT

SPEC. NO. 1979

CONTRACTOR

INSPECTOR

11/16/2020

DATE COMPLETED

ROESLING NAKAMURA TERADA ARCHITECTS INC

363 Fifth Avenue

San Diego, California 92101

619.233.1023

www.rntarchitects.com

LICENSED ARCHITECT

NOTARY NAKAMURA

NO. C 17921

REN. 5-31-21

11/16/2020

PLANS FOR THE CONSTRUCTION OF

Chollas Crane Replacement


GENERAL NOTES

CITY OF SAN DIEGO, CALIFORNIA

ENGINEERING & CAPITAL PROJECTS DEPARTMENT

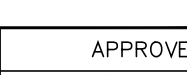
SHEET 2 OF 22 SHEETS

WBS L-14002.4

APPROVED:  11/16/2020

FOR CITY ENGINEER DATE C77208

DEPUTY CITY ENGINEER RCE#

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RNT		11/16/20	

1847-6309

CCSB3 COORDINATE

41951- 2 -D

CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of

SAN DIEGO

Engineering & Capital Projects





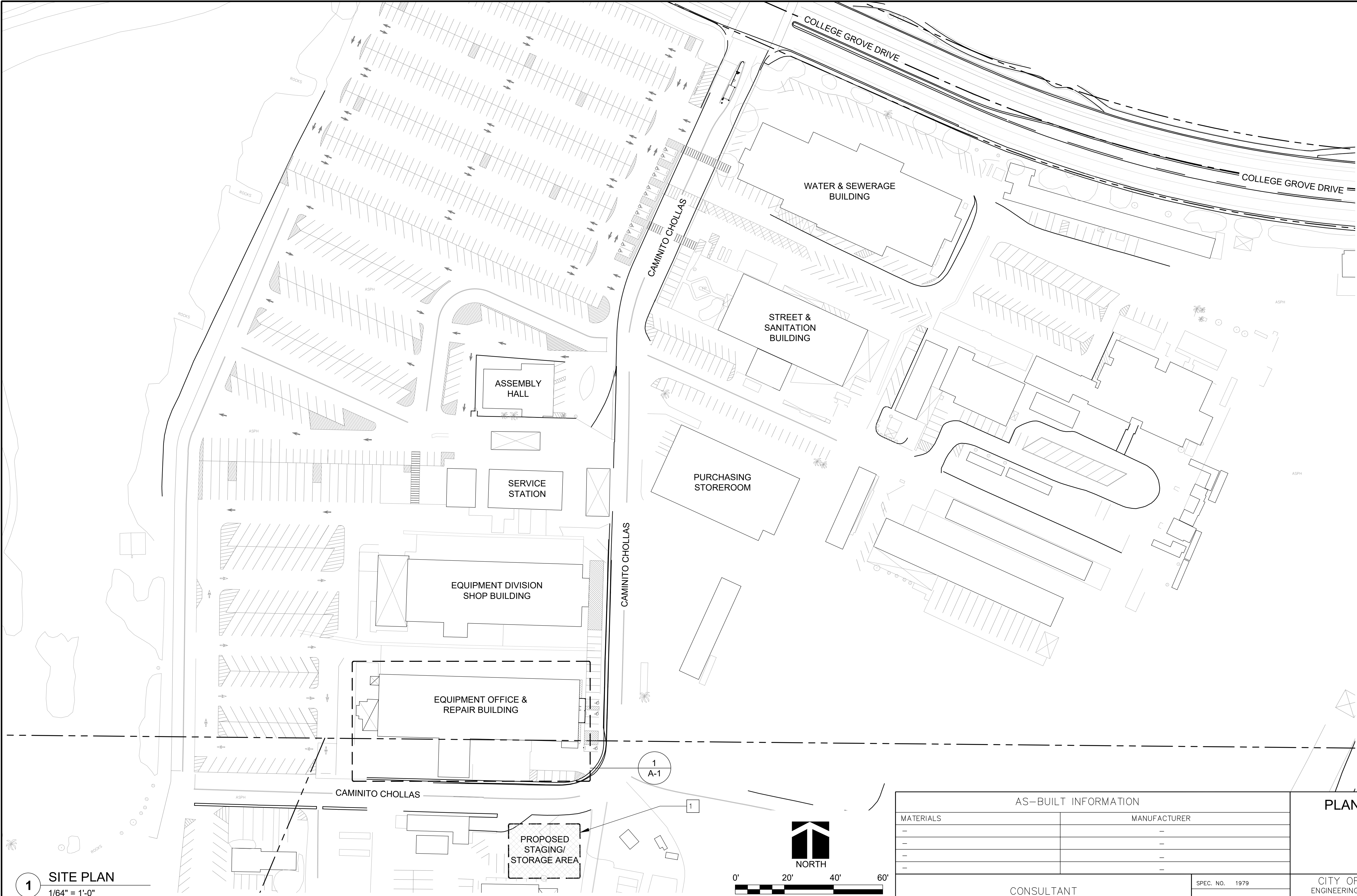


GENERAL NOTES

1. ALL SITE CONDITIONS SHOWN ARE EXISTING UNLESS NOTED AS NEW.

KEYNOTES

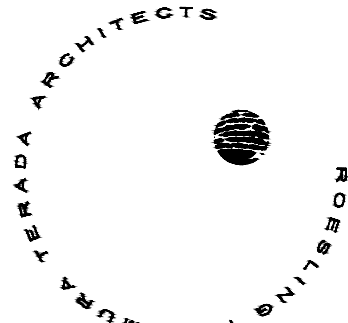
1 STAGING AREA LESS THAN 5,000 SQ. FT.

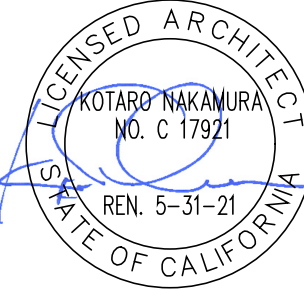


1 SITE PLAN  
1/64" = 1'-0"

AS-1


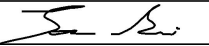
AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
-	-
-	-
-	-
-	-

CONSULTANT	
 ROESLING NAKAMURA TERADA ARCHITECTS INC 363 Fifth Avenue San Diego, California 92101 P619-233-1023 www.rntarchitects.com	

SPEC. NO. 1979	
	
CONTRACTOR	INSPECTOR

PLANS FOR THE CONSTRUCTION OF  
Chollas Crane Replacement

SITE PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 22 SHEETS					WBS L-14002.4
APPROVED:  FOR CITY ENGINEER JASON GRANI DEPUTY CITY ENGINEER		11/16/2020 DATE C77208 RCE#		SUBMITTED BY: FRANCIS S. MARQUEZ PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	RNT		11/16/20		
				PROJECT ENGINEER	
				207-1747 CCS27 COORDINATE	
				1847-6309 CCS83 COORDINATE	
DATE STARTED				41951-4 -D	
DATE COMPLETED					





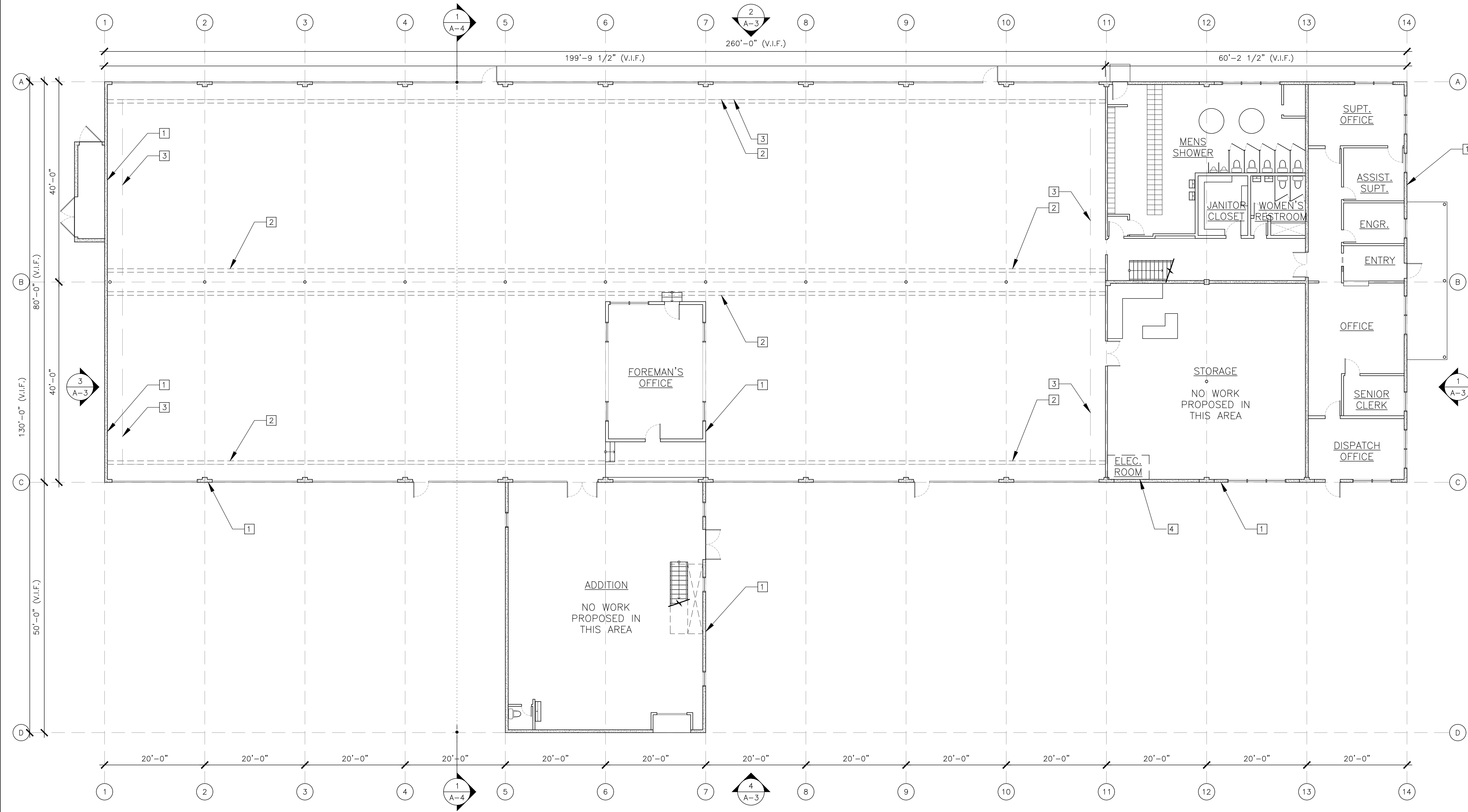


GENERAL NOTES

1. ALL BUILDING ELEMENTS SHOWN ARE EXISTING UNLESS NOTED AS NEW.
2. PROTECT IN PLACE ALL BUILDING ELEMENTS FROM DAMAGE DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY OR SHALL BE REPLACED WITH NEW BY THE CONTRACTOR WITHOUT COST TO THE CITY
3. ITEMS INDICATED TO BE RELOCATED OR TO BE REMOVED AND REINSTALLED SHALL BE CAREFULLY REMOVED, PROTECTED FROM DAMAGE, CLEANED, PRIOR TO REINSTALLATION. ITEMS DAMAGED SHALL BE REPLACED WITH NEW BY CONTRACTOR WITHOUT COST TO THE CITY.
4. FLEET'S OPERATIONS WILL REMAIN ACTIVE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE SCHEDULE OF CRANE INSTALLATION WITH THE PROJECT TEAM AND FLEET MANAGER DURING PRE-CONSTRUCTION MEETING. CRANES WILL BE INSTALLED ONE AT A TIME.

KEYNOTES

- 1 EXISTING BUILDING TO REMAIN
- 2 **INSTALL NEW SINGLE GIRDER BRIDGE CRANE, TYP. OF 2 - SEE STRUCTURAL DRAWINGS**
- 3 NEW BOUNDARY OF PICK-UP AREA SHALL BE 3'-0" FROM ADJACENT WALLS AND ROLL-UP DOORS ON ALL SIDES
- 4 EXISTING ELECTRICAL ROOM LOCATED IN THE 2ND FLOOR



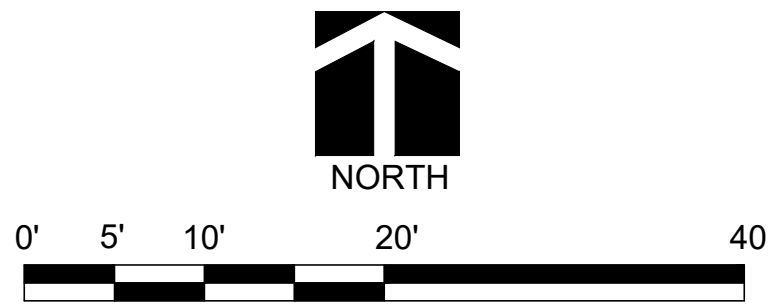
A-2

1 NEW FLOOR PLAN  
3/32" = 1'-0"

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING  
0 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of  
**SAN DIEGO**  
Engineering & Capital Projects



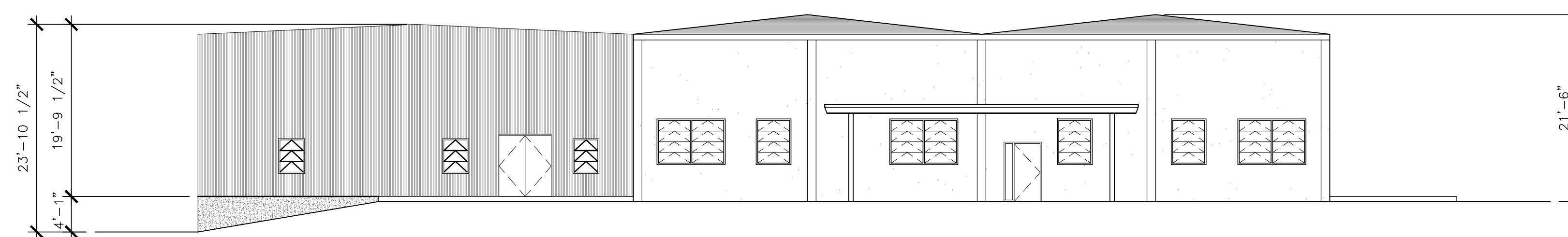
AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
-	-
-	-
-	-
-	-
-	-
CONSULTANT	
SPEC. NO. 1979	
CONTRACTOR INSPECTOR	

PLANS FOR THE CONSTRUCTION OF Chollas Crane Replacement			
NEW FLOOR PLAN			WBS L-14002.4
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 22 SHEETS			SUBMITTED BY: FRANCIS S. MARQUEZ PROJECT MANAGER
APPROVED: JASON GRANI FOR CITY ENGINEER DEPUTY CITY ENGINEER			CHECKED BY: PROJECT ENGINEER
DATE: 11/16/2020 RCE# C77208			207-1747 CCS27 COORDINATE
DESCRIPTION BY APPROVED DATE FILMED			1847-6309 CCS83 COORDINATE
ORIGINAL RNT 11/16/20			41951-6 -D
DATE STARTED DATE COMPLETED			

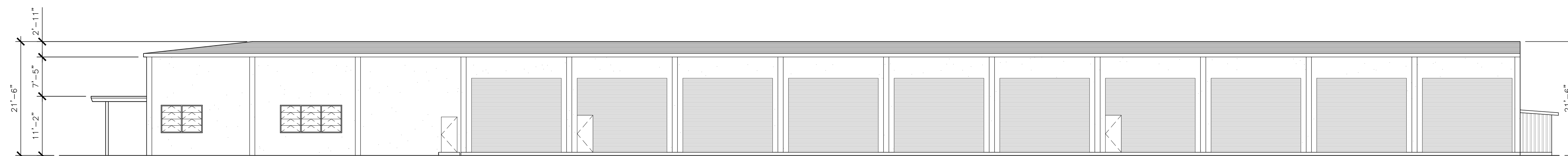


## Chollas Crane Replacement

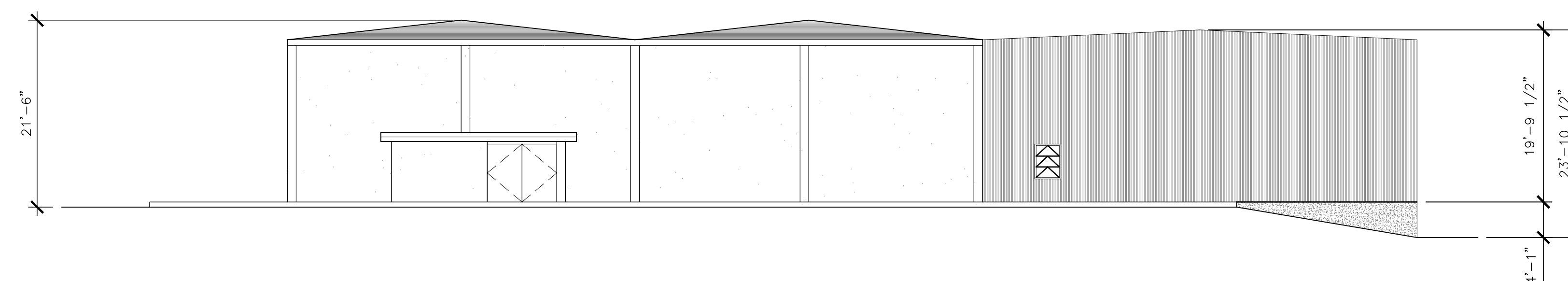
1 EAST ELEVATION  
3/32" = 1'-0"



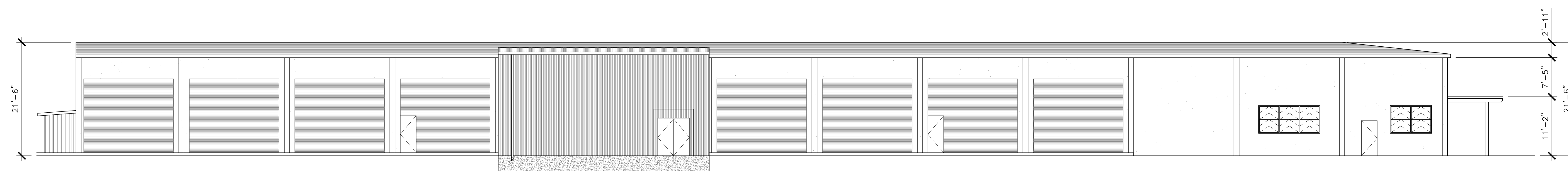
2 NORTH ELEVATION  
3/32" = 1'-0"



3 WEST ELEVATION  
3/32" = 1'-0"



4 SOUTH ELEVATION  
3/32" = 1'-0"



A-3

<div>CONSTRUCTION CHANGE / ADDENDUM</div> <table><tr><th>CHANGE</th><th>DATE</th><th>AFFECTED OR ADDED SHEET NUMBERS</th><th>APPROVAL NO.</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.																	<div>WARNING</div> <div><div>01</div></div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</div>		<div><div><div>The City of</div><div>SAN DIEGO</div></div><div>Engineering &amp; Capital Projects</div></div>		<div><div><div>ROESLING NAKAMURA TERADA ARCHITECTS</div><div>ROESLING NAKAMURA TERADA ARCHITECTS INC</div><div>363 Fifth Avenue San Diego, California 92101 P619.233.1023 www.mtarchitects.com</div></div><div><div>11/16/2020</div><div>CONTRACTOR</div><div>INSPECTOR</div></div><div><div>DATE STARTED</div><div>DATE COMPLETED</div></div></div>		<div><div><div>APPROVED: 11/16/2020</div><div>FOR CITY ENGINEER JASON GRANI</div><div>DEPUTY CITY ENGINEER RCE#</div><div>DATE 11/16/20</div></div><div><div>11/16/2020</div><div>CONTRACTOR</div><div>INSPECTOR</div></div><div><div>DATE STARTED</div><div>DATE COMPLETED</div></div></div>		<div><div>CITY OF SAN DIEGO, CALIFORNIA</div><div>ENGINEERING &amp; CAPITAL PROJECTS DEPARTMENT</div><div>SHEET 7 OF 22 SHEETS</div></div> <div><div>WBS L-14002.4</div></div>	
				CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.																										

PTS: 667514

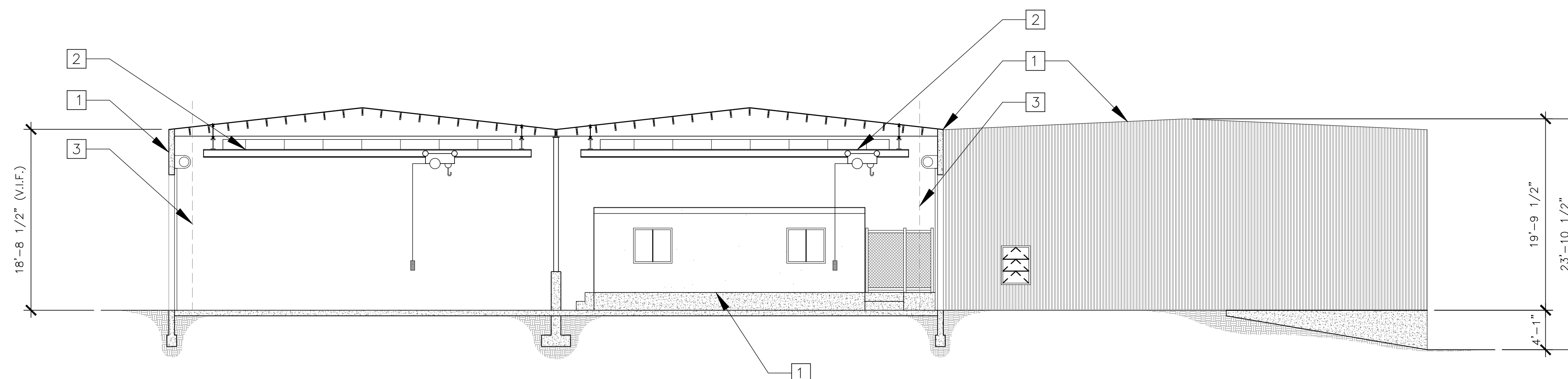


## GENERAL NOTES

1. ALL BUILDING ELEMENTS SHOWN ARE EXISTING UNLESS NOTED AS NEW.
2. PROTECT IN PLACE ALL BUILDING ELEMENTS FROM DAMAGE DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY OR SHALL BE REPLACED WITH NEW BY THE CONTRACTOR WITHOUT COST TO THE CITY
3. ITEMS INDICATED TO BE RELOCATED OR TO BE REMOVED AND REINSTALLED SHALL BE CAREFULLY REMOVED, PROTECTED FROM DAMAGE, CLEANED, PRIOR TO REINSTALLATION. ITEMS DAMAGED SHALL BE REPLACED WITH NEW BY CONTRACTOR WITHOUT COST TO THE CITY.

## KEYNOTES

- 1 EXISTING BUILDING TO REMAIN
- 2 **INSTALL NEW SINGLE GIRDER BRIDGE CRANE,  
TYP. OF 2 - SEE STRUCTURAL DRAWINGS**
- 3 NEW BOUNDARY OF PICK-UP AREA SHALL BE  
3'-0" FROM ADJACENT WALLS AND ROLL-UP  
DOORS ON ALL SIDES



**1** CROSS SECTION  
1/8" = 1'-0"

A-4

<div>CONSTRUCTION CHANGE / ADDENDUM</div> <table><tr><th>CHANGE</th><th>DATE</th><th>AFFECTED OR ADDED SHEET NUMBERS</th><th>APPROVAL NO.</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.																	<div>WARNING</div> <div><div>01</div></div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</div>		<div><div><div>The City of</div><div>SAN DIEGO</div></div><div><div>Engineering &amp; Capital Projects</div></div></div>	
				CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.																				
<div>AS-BUILT INFORMATION</div> <table><tr><th>MATERIALS</th><th>MANUFACTURER</th></tr><tr><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td></tr></table>				MATERIALS	MANUFACTURER	—	—	—	—	—	—	—	—	<div>PLANS FOR THE CONSTRUCTION OF</div> <div>Chollas Crane Replacement</div>		<div>SECTIONS</div> <div><div>CITY OF SAN DIEGO, CALIFORNIA</div><div>ENGINEERING &amp; CAPITAL PROJECTS DEPARTMENT</div><div>SHEET 8 OF 22 SHEETS</div></div> <div><div>WBS</div><div>L-14002.4</div></div>											
MATERIALS	MANUFACTURER																										
—	—																										
—	—																										
—	—																										
—	—																										
<div>CONSULTANT</div> <div><div><div><div>ROESLING NAKAMURA TERADA ARCHITECTS</div><div>ARCHITECTS INC</div><div>353 Fifth Avenue</div><div>San Diego, California 92101</div><div>P619.233.1023</div><div>www.mtarchitects.com</div></div><div><div>APPROVED:</div><div>FOR CITY ENGINEER</div><div>JASON GRANI</div><div>DEPUTY CITY ENGINEER</div></div><div><div>DATE</div><div>11/16/2020</div></div><div><div>CITY ENGINEER</div><div>11/16/2020</div></div></div><div><div>APPROVED:</div><div>FOR CITY ENGINEER</div><div>JASON GRANI</div><div>DEPUTY CITY ENGINEER</div></div><div><div>DATE</div><div>11/16/2020</div></div><div><div>CITY ENGINEER</div><div>11/16/2020</div></div></div>				<div><div>APPROVED:</div><div>FOR CITY ENGINEER</div><div>JASON GRANI</div><div>DEPUTY CITY ENGINEER</div></div> <div><div>DATE</div><div>11/16/2020</div></div> <div><div>CITY ENGINEER</div><div>11/16/2020</div></div>		<div><div>APPROVED:</div><div>FOR CITY ENGINEER</div><div>JASON GRANI</div><div>DEPUTY CITY ENGINEER</div></div> <div><div>DATE</div><div>11/16/2020</div></div> <div><div>CITY ENGINEER</div><div>11/16/2020</div></div>																					
<div>CONTRACTOR</div> <div>INSPECTOR</div>				<div>DATE STARTED</div> <div>DATE COMPLETED</div>		<div>41951- 8 - D</div>																					





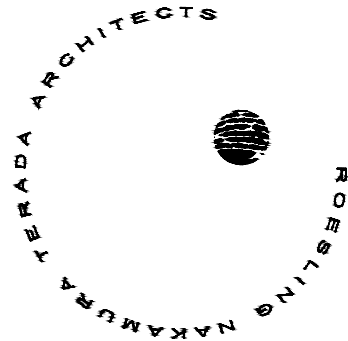
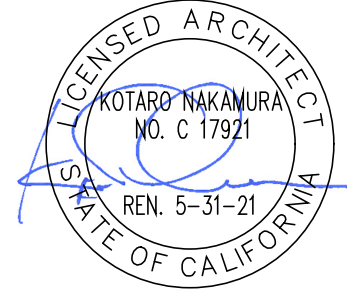

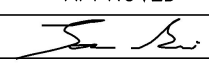
\* PROTECT EXISTING OVERHEAD UTILITIES ADJACENT/ALONG THE RUNWAY

00000--000.DWG

EXISTING OVERHEAD UTILITIES

NTS 1

A-5

AS-BUILT INFORMATION		PLANS FOR THE CONSTRUCTION OF Chollas Crane Replacement					
MATERIALS	MANUFACTURER						
-	-						
-	-						
-	-						
CONSULTANT		SPEC. NO. 1979	CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 9 OF 22 SHEETS		WBS L-14002.4		
 ROESLING NAKAMURA TERADA ARCHITECTS INC 363 Fifth Avenue San Diego, California 92101 P619.233.1023 www.rntarchitects.com			APPROVED:  11/16/2020 FOR CITY ENGINEER DATE JASON GRANI C77208 DEPUTY CITY ENGINEER RCE#		SUBMITTED BY: FRANCIS S. MARQUEZ PROJECT MANAGER CHECKED BY: PROJECT ENGINEER		
			DESCRIPTION	BY	APPROVED	DATE	FILMED
			ORIGINAL	RNT		11/16/20	
CONTRACTOR		DATE STARTED		1847-6309			
INSPECTOR		DATE COMPLETED		CCS83 COORDINATE			

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING  
0 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



11/10/20 \* 3:39 pm \* 7259.01 CHOLLAS CRANE PROJECT.dwg

GENERAL

1.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING WORK, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2.

ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3.

NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
4.

IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THESE STRUCTURAL DRAWINGS.
5.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND THE APPLICABLE PROVISIONS OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AS AMENDED BY THE CITY OF SAN DIEGO.
6.

WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS. MEMBER SIZES ARE GENERALLY FOUND ON PLANS. DETAILS AND SECTIONS GENERALLY REFER TO GENERIC ELEMENTS.
7.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE OR SHE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT CONSTITUTE INSPECTION OF THE ABOVE ITEMS.
8.

THE PROJECT SPECIFICATIONS FORM A PART OF THESE GENERAL NOTES.
9.

THIS STRUCTURE IS DEPENDENT UPON DIAPHRAGM ACTION FOR LATERAL STABILITY. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
10.

NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC, NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.
11.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES IN THE WORK AREA AND SHALL REPAIR ANY DAMAGE CAUSED BY HIS OR HER OPERATIONS AT HIS OR HER OWN COST.
12.

ALL SPECIFICATION AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.
13.

SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS.  
SIZES AND LOCATION OF INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.  
SIZES AND LOCATIONS OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.  
SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS.  
FLOOR AND ROOF FINISHES.  
DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.  
EXTERIOR WALL ASSEMBLIES.
14.

SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

GENERAL (CONTINUED)

- PIPE SLEEVES, HANGERS, TRENCHES, WALL FLOOR AND ROOF OPENINGS, DUCT PENETRATION ETC, EXCEPT AS SHOWN OR NOTED.  
ELECTRICAL CONDUIT RUNS, BOES, OUTLES IN WALLS AND SLABS.

15.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
16.

NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
17.

NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/ SUB-CONTRACTOR/OWNER-BUILDER: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION/ OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

DESIGN CRITERIA

1.

LIVE LOADS:

ROOF20 P.S.F.
2.

CRANE LOAD DATA:

LIFT CAPACITY: 4000 LBS
3.

SEISMIC DESIGN DATA:

RISK CATEGORY = II (CBC TABLE 1604.5)  
SITE CLASS = D (ASCE 20.3)  
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS (ASCE 11.4.1)  
Ss = 0.986  
S1 = 0.344  
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS (ASCE 11.4.4)  
SDS = 0.789  
SD1 = NULL  
SITE COEFFICIENTS  
Fa = 1.2 (ASCE TABLE 11.4-1)  
Fv = NULL  
SEISMIC DESIGN CATEGORY D (ASCE 11.6)  
  
NONSTRUCTURAL COMPONENTS: (ASCE CH.13)

STRUCTURAL STEEL

1.

ALL STRUCTURAL STEEL WIDE FLANGE BEAMS AND GIRDERS SHALL CONFORM TO ASTM A992, GRADE 50 U.O.N. AND SHALL BE FABRICATED ACCORDING TO AISC PRACTICE AND SPECIFICATIONS FOR BUILDINGS (UNLESS OTHERWISE SPECIFIED).
2.

STRUCTURAL STEEL PLATES, CHANNELS, AND ANGLES SHALL CONFORM TO ASTM A36 Fy = 36 K.S.I.
3.

ALL STRUCTURAL HOLLOW TUBES SHALL CONFORM TO ASTM A 500 GRADE B.
4.

BOLTS SHALL CONFORM TO ASTM A307, U.O.N. ALL BOLTS SHALL BE INSTALLED WITH CUT STEEL WASHERS. BOLT HOLES SHALL BE 1/16-INCH LARGER THAN THE BOLT DIAMETER AND OVERSIZED ACCORDING TO AISC 360 TABLE J3.3.

STRUCTURAL STEEL (CONTINUED)

5.

ALL WELDING SHALL BE PERFORMED BY CERTIFIED OPERATORS UNDER THE SUPERVISION OF AN APPROVED FABRICATOR USING THE ELECTRIC SHIELDED ARC PROCESS AS FORMULATED BY THE AMERICAN WELDING SOCIETY.
6.

STEEL SHALL BE IDENTIFIED BY HEAT OR MELT NUMBERS AND SHALL BE ACCOMPANIED BY TEST REPORTS.
7.

AISC STANDARD BEAM CONNECTIONS SHALL BE USED FOR CONNECTIONS NOT SHOWN (AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION OR EQUAL) USING 3/4-INCH BOLTS.
8.

ALL STEEL SHALL BE FABRICATED TO FIT TOGETHER PLUMB AND TRUE IN THE FIELD WITHOUT ALTERATION.
9.

WELDING ELECTRODES FOR MANUAL SHIELDED METAL-ARC WELDING SHALL CONFORM TO SPECIFICATIONS FOR MILD STEEL COVERED ARC WELDING ELECTRODES, AWS A5.1, OR SPECIFICATION FOR LOW-ALLOY STEEL COVERED ARC-WELDING ELECTRODES AWS A5.5. ELECTRODES SHALL BE E70 SERIES.
10.

ELECTRODES USED IN THE GAS METAL ARC PROCESS SHALL CONFORM TO SPECIFICATION FOR MILD STEEL ELECTRODES FOR GAS METAL-ARC WELDING AWS A5.18.
11.

ALL TESTING AND WELDING OF STRUCTURAL STEEL AND ALL CERTIFICATION OF WELDERS SHALL BE PER AWS D1.1. REFER TO SPECIAL INSPECTION NOTES FOR ADDITIONAL WELDING REQUIREMENTS.
12.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE SEISMIC FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20°F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.
13.

AN ERECTION PLAN PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER INCORPORATING ALL LOCAL, STATE AND FEDERAL SAFETY REQUIREMENTS, SHALL BE SUBMITTED TO THE BUILDING INSPECTION DEPARTMENT OF THE CITY OF SAN DIEGO.
14.

STRUCTURAL STEEL SURFACES THAT ARE NOT EXPOSED TO WEATHER SHALL BE PRIMED AND LEFT UNPAINTED, U.O.N. SEE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS.
15.

STRUCTURAL STEEL SURFACES EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.
16.

EXCEPT AS SUBSEQUENTLY NOTED, HIGH STRENGTH BOLTS NEED NOT BE TIGHTENED BEYOND THE SNUG-TIGHT CONDITION, AS DEFINED IN SECTION J3.1 OF AISC 360 AND RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION.
17.

SHOP DRAWINGS SHALL BE REVIEWED BY ENGINEER PRIOR TO FABRICATION.

SCOPE OF WORK AND CRANE PERFORMANCE SPECIFICATION

THE FOLLOWING NOTES LIST THE SCOPE OF WORK AND MINIMUM REQUIREMENTS FOR THE (2) PROPOSED CRANES IN THE VEHICLE MAINTENANCE SHOP. REFER TO CRANE SPECIFICATION FOR ADDITIONAL INFORMATION. CRANE MANUFACTURER SHALL SUPPLY GENERAL ARRANGEMENT DRAWING SPECIFICALLY NOTING ITEMS BELOW TO CLIENT FOR REVIEW.

1.

SCOPE OF WORK:

A) PRIOR TO BEGINNING DEMOLITION AND FABRICATION CONTRACTOR SHALL PERFORM FIELD VERIFICATION OF EXISTING CONDITIONS. IDENTIFY ANY CONFLICTS AND RELOCATE UTILITIES AS NEEDED.
- B)

DEMOLISH (2) EXISTING 2 TON UNDER-RUNNING BRIDGE CRANES, SUPPORTS, AND RELATED ELEMENTS I.E. ELECTRICAL, ETC.

SCOPE OF WORK AND CRANE PERFORMANCE SPECIFICATION (CONTINUED)

- C)

FABRICATE AND INSTALL NEW CRANE SUPPORTS AND BRACING. PRIOR TO FABRICATION OF CRANE SUPPORTS AND BRACING ELEMENTS THE APPROVED/PERMITTED CRANE AND RUNWAY SYSTEM DRAWINGS SHALL BE REVIEWED BY THE S.E.O.R. FOR COORDINATION. CONTRACTOR SHOULD NOTE THAT STRUCTURAL CRANE SUPPORT AND BRACING DETAILS SHOWN HEREIN ARE SUBJECT TO CHANGE BASED ON THIS REVIEW.
- D)

INSTALL NEW ELECTRICAL REQUIRED FOR CRANE OPERATION. ELECTRICAL SYSTEM SHALL BE COORDINATED WITH CRANE MANUFACTURER PRIOR TO FABRICATION OR INSTALLATION.
- E)

MANUFACTURE AND INSTALL (2) UNDER-RUNNING SINGLE GIRDER BRIDGE CRANES WITH A RATED LIFT CAPACITY OF 2 TONS AND RUNWAY BEAMS WITH END STOPS. CONTRACTOR SHALL SUBMIT NEW CRANES TO THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES DEPARTMENT UNDER A SEPARATE PERMIT.
- F)

PERFORM REQUIRED TESTING OF NEW CRANES.
2.

REFER TO PLANS AND CRANE ELEVATION FOR CONFIGURATION INFORMATION. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO APPROVAL OF GENERAL ARRANGEMENT DRAWINGS AND FABRICATION.
3.

CRANE WHEEL LOADS SHALL BE LIMITED TO 1500 LB DEAD LOAD AND 2000 LB LIFT LOAD (LIVE LOAD) PER WHEEL, ASSUMING 2 WHEELS PER ENDTRUCK.
4.

RUNWAY BEAMS SELF-WEIGHT SHALL BE LIMITED TO 35 LB PER FOOT ±10%.
5.

LOADS TO SUPPORTING GIRDER DUE TO CRANE AND RUNWAY SHALL NOT EXCEED 3450 LB DEAD LOAD AND 3500 LB LIFT LOAD (LIVE LOAD).
6.

HEIGHT TO PALM OF HOOK FROM (E) FINISHED FLOOR SHALL BE 13 FEET MINIMUM.
7.

HOIST SHALL PROVIDE TRUE VERTICAL LIFT.
8.

BRIDGE CRANE BETWEEN GRIDS A AND B SHALL HAVE AUTOMATIC CONTROL TO LIMIT LOADED CRANE TRAVEL OVER (E) OFFICE SPACE BETWEEN GRIDS 6 AND 7. CONTROL SHALL ONLY ALLOW TRAVEL OVER OFFICE SPACE WHEN HOIST IS FULLY RETRACTED AND UNLOADED.
9.

REQUIRED BRIDGE SPEED: 100-200 FEET PER MINUTE  
REQUIRED TROLLEY SPEED: 10-50 FEET PER MINUTE  
REQUIRED HOIST SPEED: 10-50 FEET PER MINUTE
10.

CRANES SHALL BE REMOTE-CONTROLLED WITH PENDANT CONTROL BACKUP. PROVIDE (2) REMOTE-CONTROL UNITS PER EACH CRANE. CONTROLS SHALL BE CONFIGURED SUCH THAT CRANES CAN RUN SIMULTANEOUSLY.
11.

TROLLEYS SHALL BE POWERED BY FESTOONED CABLES. BRIDGES SHALL BE POWERED BY BUS BARS.
12.

TESTING AND CERTIFICATION TO COMPLY WITH OSHA STANDARD 1910.179-OVERHEAD AND GANTRY CRANES.
13.

PREFERRED MANUFACTURER SHOULD BE NAME BRAND EQUIPMENT UTILIZING THE LATEST MODEL, UPGRADES OR GENERATION AVAILABLE WITH MULTIPLE VENDORS STOCKING PARTS. CRANE SUPPLIER TO BE:

KONE CRANE, NORTHERN CRANE, ACE CRANE, OR APPROVED EQUAL

DRILLED IN ANCHORS AND BARS

1.

ALL ANCHORS SHALL BE ICC APPROVED.
2.

ALL ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S APPROVED RESEARCH REPORT. SUBSTITUTIONS ARE REQUIRED TO BE REVIEWED BY THE ENGINEER TO A SIMILAR ACCEPTABLE PERFORMANCE IN ACCORDANCE WITH THE APPROPRIATE ICC-ES REPORT.
3.

DRILLED IN CONCRETE WEDGE ANCHORS SHALL BE: HILTI KWIK BOLT TZ ESR-1917
4.

UNLESS OTHERWISE SHOWN, PROVIDE A MINIMUM OF 6xDIAMETER EDGE DISTANCES AND 12xDIAMETER SPACING OF ANCHORS.
5.

FOR EXTERIOR USE DRILLED IN ANCHORS AND THREADED ROD ASSEMBLIES SHALL BE STAINLESS STEEL.
6.

DRILLED IN ANCHORS SHALL NOT BE INSTALLED IN CONCRETE OR MASONRY THAT HAS NOT REACHED THE SPECIFIED 28-DAY STRENGTH.
7.

SPECIAL INSPECTION IN ACCORDANCE WITH TABLE 1705.3 OF THE CBC MUST BE PROVIDED FOR ALL ANCHOR INSTALLATIONS. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE. THE SPECIAL INSPECTOR MUST VERIFY THE INSTALLATIONS OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR BY CONSTRUCTION PERSONNEL ON SITE.

STRUCTURAL DEMOLITION

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING METHODS OF DEMOLITION SO THAT THE REMAINING STRUCTURE WILL NOT BE IMPAIRED OR DAMAGED.
2.

SAWCUTTING AND CORING SHALL BE UTILIZED TO THE FULLEST EXTENT POSSIBLE. ISOLATE CONSTRUCTION TO BE REMOVED FROM THE STRUCTURE TO REMAIN.
3.

OVERCUT OPENINGS AS INDICATED. USE APPROPRIATE SIZE CORES AT CORNERS SO THAT RUN BY OF SAWCUTS WILL NOT BE NECESSARY. USE CHIPPING TOOLS WHERE CORNERS ARE REQUIRED TO BE SQUARE.
4.

SELECT METHODS OF TRANSPORTING DEBRIS THROUGH THE BUILDING WHICH WILL NOT OVERLOAD THE STRUCTURE.
5.

PROVIDE SHORING REQUIRED TO SUPPORT THE STRUCTURE WHEN NEW WORK TO STRENGTHEN THE STRUCTURE CANNOT BE INSTALLED PRIOR TO DEMOLITION. MAINTAIN SHORING UNTIL NEW WORK HAS ATTAINED DESIGN STRENGTH.
6.

WHERE INDICATED TO BE DEMOLISHED, EXISTING CONSTRUCTION SHALL BE REMOVED TO A LEGAL DUMP SITE.
7.

MAINTAIN THE WORK AREA AS A SAFE ENVIRONMENT BY DISPOSING OF MATERIALS ON A REGULAR BASIS.

S-1

PLANS FOR THE CONSTRUCTION OF  
Chollas Crane Replacement

GENERAL NOTES

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 10 OF 22 SHEETS				WBS L-14022.4	
APPROVED:  11/16/2020 FOR CITY ENGINEER JASON GRANI DEPUTY CITY ENGINEER DATE C77208 RCE#				SUBMITTED BY: FRANCIS S. MARQUEZ PROJECT MANAGER CHECKED BY:	
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
ORIGINAL	RNT		11/16/20		267-1747 CCS27 COORDINATE
					1847-6309 CCS83 COORDINATE
CONTRACTOR INSPECTOR				DATE STARTED DATE COMPLETED	
				41951- 10 -D	



11/10/20 \* 3:39 pm \* 7259.01 CHOLLAS CRANE PROJECT.dwg

SPECIAL INSPECTIONS AND TESTS

1. THE SPECIAL INSPECTIONS AND TESTS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS AND TESTS REQUIRED BY CHAPTER 17 OF THE CBC, AS AMENDED. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR.
2. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED IN ACCORDANCE WITH THE PROVISIONS OF CBC CHAPTER 17, IT IS THE AGENT'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL THE WORK IS INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.
3. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY OF SAN DIEGO TO PERFORM THE TYPE OF INSPECTION SPECIFIED. EXCEPTIONS:

A. SOILS INSPECTIONS BY THE SOILS ENGINEER OF RECORD.

B. WHEN WAIVED BY THE BUILDING OFFICIAL.
4. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
6. SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
7. THE SPECIAL INSPECTOR SHALL SUBMIT IN WRITING A REPORT OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
8. THE INSPECTOR SHALL REPORT IN ADVANCE THEIR ASSIGNMENT TO THE CITY OF SAN DIEGO INSPECTION SERVICES DIVISION.
9. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.
10. AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO FABRICATION.
11. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
12. SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER (CBC SECTION 1704).
13. IN ADDITION TO THE SUBMITTAL OF REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH CBC SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL FOR EACH OF THE FOLLOWING:

1. CERTIFICATES OF COMPLIANCE FOR THE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES ON THE PREMISES OF A REGISTERED AND APPROVED FABRICATOR: CBC SECTION 1704.2.5.1.

SPECIAL INSPECTIONS AND TESTS (CONTINUED)

14. REQUIRED VERIFICATION, TESTING, QUALIFICATION AND/OR SPECIAL INSPECTION OF ELEMENTS AND NONSTRUCTURAL COMPONENTS OF BUILDINGS AND STRUCTURES SHALL BE IN ACCORDANCE WITH FOLLOWING:

A. STRUCTURAL STEEL, HIGH STRENGTH BOLTING AND WELDING: CBC SECTION 1705.2.1 AND THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

B. CONCRETE CONSTRUCTION: CBC SECTION 1705.3 AND TABLE 1705.3

1. POST INSTALLED ANCHORS: TABLE 1705.3

15. CONTRACTOR OR CONSTRUCTION MANAGER SHALL PROVIDE A WRITTEN STATEMENT ACKNOWLEDGING SPECIAL INSPECTIONS, STATING QUALITY CONTROL PROCEDURES INCLUDING METHOD, FREQUENCY & DISTRIBUTION OF REPORTS. THE STATEMENT SHALL ALSO IDENTIFY INDIVIDUALS EXERCISING CONTROL INCLUDING QUALIFICATIONS AND POSITION IN ORGANIZATION. THIS SHALL BE SUBMITTED PRIOR TO THE START OF WORK.
16. ALL NDT PERFORMED SHALL BE DOCUMENTED PER SECTION N5.5G, AISC 360. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE.

REQUIRED VERIFICATION, SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION  
(CBC TABLE 1705.3)

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
1.INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. <sup>b</sup>				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X		ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		X	ACI 318: 17.8.2	

- a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SPECIAL INSPECTIONS AND TESTS (CONTINUED)

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL (CBC 1705.2.1, 1705.11 & 1705.12.1)		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10):		
VERIFY WELDING PROCEDURE SPECIFICATIONS (WPS) AND CERTIFICATIONS FOR WELDING CONSUMABLES.	X	-
MATERIAL IDENTIFICATION. VERIFY TYPE AND GRADE OF MATERIAL.	-	X
WELDER IDENTIFICATION. A SYSTEM SHALL BE MAINTAINED BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED.	-	X
FIT-UP GROOVE WELDS. VERIFY JOINT PREPARATION, JOINT GEOMETRY, DIMENSION, CLEANLINESS, TACKING, AND BACKING TYPE AND FIT.	-	X
VERIFY CONFIGURATION AND FINISH OF ACCESS HOLES.	-	X
FIT-UP OF FILLET WELDS. VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND TACK WELD QUALITY AND LOCATION.	-	X
CHECK WELDING EQUIPMENT.	-	X
DURING WELDING (TABLE N5.4-2, AISC 360-10):		
USE OF QUALIFIED WELDERS.	-	X
CONTROL AND HANDLING OF WELDING CONSUMABLES: VERIFY PACKAGING AND EXPOSURE CONTROL.	-	X
VERIFY THAT WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS.	-	X
ENVIRONMENTAL CONDITIONS: VERIFY WIND SPEED IS WITHIN LIMITS, PRECIPITATION AND TEMPERATURE.	-	X
WPS FOLLOWED: VERIFY SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.	-	X
WELDING TECHNIQUES: VERIFY INTERPASS, FINAL CLEANING AND THAT EACH PASS IS WITHIN PROFILE LIMITATIONS AND MEETS REQUIREMENTS.	-	X
AFTER WELDING (TABLE N5.4-3, AISC 360-10):		
VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED.	-	X
SIZE, LENGTH, AND LOCATION OF WELDS.	X	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA.	X	-
ARC STRIKES.	X	-
K-AREA.	X	-
BACKING & WELD TABS REMOVED.	X	-
REPAIR ACTIVITIES.	X	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/MEMBER.	X	-

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS:

A. STRUCTURAL STEEL FRAMING.
2. STRUCTURAL OBSERVATION IS REQUIRED IN ADDITION TO CITY AND SPECIAL INSPECTIONS.
3. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE ENGINEER OF RECORD, FOR GENERAL CONFORMATION TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES FOR THE ITEMS LISTED AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY CHAPTER 17 OR OTHER SECTIONS OF THE CBC.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST STRUCTURAL OBSERVATION BY THE ENGINEER. THE ENGINEER SHALL BE GIVEN A MINIMUM OF 2 WORK DAYS NOTICE BY THE CONTRACTOR PRIOR TO PERFORMING STRUCTURAL OBSERVATION.

ABBREVIATIONS

&	AND	MATL	MATERIAL
⊕	AT	MAX	MAXIMUM
ADDL	ADDITIONAL	MECH	MECHANICAL
ARCH	ARCHITECT(URAL)	MFR	MANUFACTURER
		MIN	MINIMUM
BLDG	BUILDING	(N)	NEW
BM	BEAM	NO (#)	NUMBER
		N.S.	NEAR SIDE
CBC	CALIFORNIA BUILDING CODE	O.C.	ON CENTER
C.L. (℄)	CENTER LINE	O.H.	OPPOSITE HAND
CLR	CLEAR(ANCE)	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE		
CONST	CONSTRUCT(ION)	PL	PLATE
CONT	CONTINUOUS	PLYWD	PLYWOOD
DIA (ø)	DIAMETER		
DWG	DRAWING	REINF	REINFORCE(ING)
		REQD	(MENT) REQUIRED
EA	EACH		
E.F.	EACH FACE		
EL	ELEVATION	SECT	SECTION
EMBED	EMBED(ED)(MENT)	SHT	SHEET
E.O.R.	ENGINEER OF RECORD	SIM	SIMILAR
		S.O.G.	SLAB ON GRADE
EQ	EQUAL	SPEC	SPECIFICATION
E.S.	EACH SIDE	SQ	SQUARE
E.W.	EACH WAY	STD	STANDARD
EXIST (E)	EXISTING	STIFF	STIFFEN(ER)
		STL	STEEL
		STRUCT	STRUCTURAL
FDN	FOUNDATION		
F.F.	FINISHED FLOOR	T.G.	TAPERED GIRDER
FIN	FINISH(ED)	THK	THICK(NESS)
FLNG	FLANGE	T.O.	TOP OF
FLR	FLOOR	T.O.C.	TOP OF CONCRETE
F.O.	FACE OF	T.O.F.	TOP OF FOOTING
F.O.C.	FACE OF CONCRETE	T.O.S.	TOP OF STEEL
F.P.M.	FEET PER MINUTE	TOT	TOTAL
F.S.	FAR SIDE	TYP	TYPICAL
FT	FOOT		
FTG	FOOTING		
F.V.	FIELD VERIFY	U.O.N.	UNLESS OTHERWISE NOTED
GRD	GRADE		
		VERT (V)	VERTICAL
HORIZ	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SECTION	W/	WITH
	HEIGHT		
HT			
IN	INCH(ES)		
JT	JOINT		

S-2

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING

0

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of

SAN DIEGO

Engineering & Capital Projects

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
-	-
-	-
-	-
-	-

CONSULTANT

M&L

MARTIN & LIBBY

STRUCTURAL ENGINEERS

4452 Glacier Avenue, San Diego, CA 92120

Ph (619) 280-9307 F (619) 284-3533

Job No 7259.01

11/16/2020

CONTRACTOR

INSPECTOR

PLANS FOR THE CONSTRUCTION OF

Chollas Crane Replacement


GENERAL NOTES

CITY OF SAN DIEGO, CALIFORNIA

ENGINEERING & CAPITAL PROJECTS DEPARTMENT

SHEET 11 OF 22 SHEETS

WBS L-14022.4


APPROVED:  11/16/2020

FOR CITY ENGINEER JASON GRANI

DEPUTY CITY ENGINEER

DATE C77208

RCE#

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RNT		11/16/20	

267-1747	CCS27 COORDINATE
1847-6309	CCS83 COORDINATE
41951- 11 -D	

DATE STARTED


DATE COMPLETED





- 

SCALE:  $1/8" = 1'-0"$



**WARNING**

The City of  
**SAN DIEGO**

**M & L** **MARTIN & LIBBY**  
**STRUCTURAL ENGINEERS**  
 4452 Glacier Avenue, San Diego, CA 92120  
 Ph (619) 280-9307 F (619) 284-3533  
 Job No 7259.01

## FOUNDATION PLAN

WBS	L-14002.4
-----	-----------

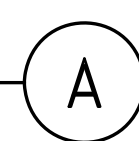
SUBMITTED BY:	FRANCIS S. MARQUE
CHECKED BY:	PROJECT MANAGER

ED	PROJECT ENGINEER

	207-1747
	CCS27 COORDINATE
	1847 6300

11/19/2020					CCSBS COORDINATOR
CONTRACTOR			DATE STARTED		
INSPECTOR			DATE COMPLETED		41951- 12 -D

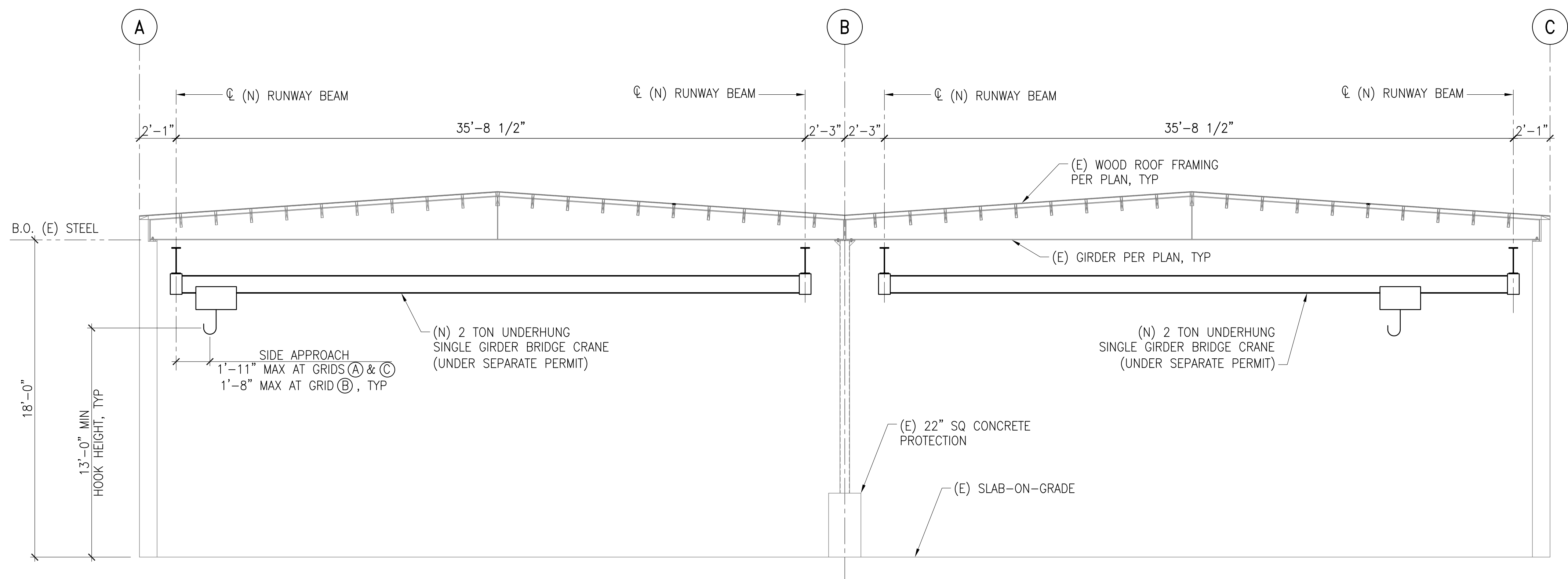




S-4



11/10/20 \* 3:39 pm \* 7259.01 CHOLLAS CRANE PROJECT.dwg



- NOTES:
1. PRIOR TO BEGINNING WORK CONTRACTOR SHALL FIELD VERIFY ALL (E) DIMENSIONS, (E) MEMBERS/ELEMENTS, AND POTENTIAL CONFLICTS WITH (E) UTILITIES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONFLICTS TO E.O.R. PRIOR TO PROCEEDING WITH WORK.
  2. REFER TO "SCOPE OF WORK AND CRANE PERFORMANCE SPECIFICATION" NOTES FOR NEW CRANE REQUIREMENTS AND SCOPE OF WORK.
  3. REFER TO PLAN SHEETS FOR CRANE OPERATION AREA AND SUPPORT LOCATIONS.
  4. PROVIDE 3" MINIMUM CLEAR BETWEEN CRANE ELEMENTS AND ADJACENT STRUCTURE.

NEW CRANE SECTION  
SCALE: 1/4" = 1'-0"

1

S-5

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

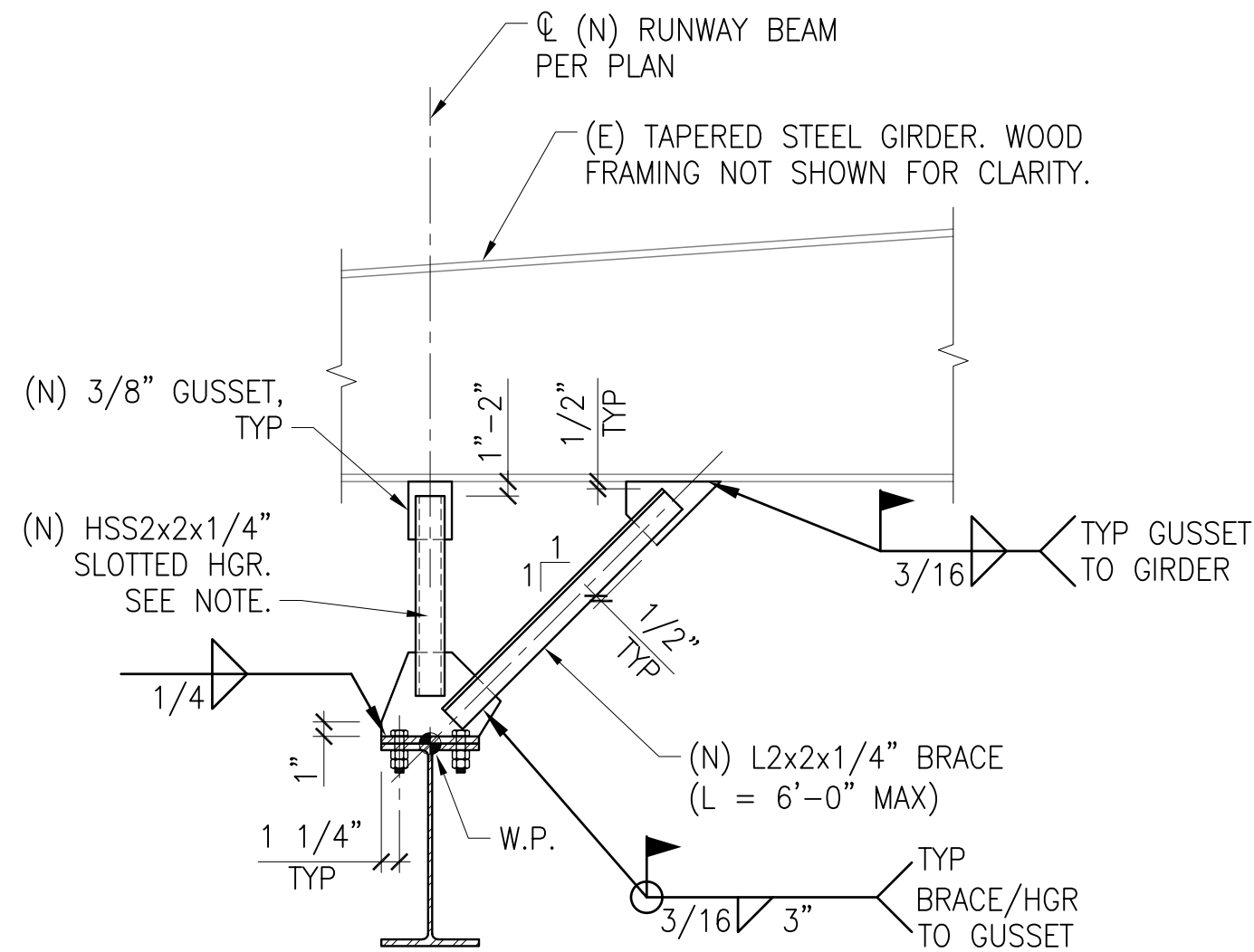
WARNING  
0 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of  
**SAN DIEGO**  
Engineering & Capital Projects

AS-BUILT INFORMATION		PLANS FOR THE CONSTRUCTION OF Chollas Crane Replacement  CRANE SECTION			
MATERIALS	MANUFACTURER	CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 22 SHEETS			
-	-	WBS L-14002.4			
-	-	CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 22 SHEETS			
-	-	11/16/2020 DATE C77208			
-	-	FOR CITY ENGINEER JASON GRANI DEPUTY CITY ENGINEER RCE#			
CONSULTANT		SPEC. NO.			
MARTIN & LIBBY STRUCTURAL ENGINEERS 4452 Glacier Avenue, San Diego, CA 92120 Ph (619) 280-9307 F (619) 284-3533 Job No 7259.01		11/16/2020 DATE C77208			
CONTRACTOR		DATE STARTED			
INSPECTOR		DATE COMPLETED			
SUBMITTED BY: FRANCIS S. MARQUEZ PROJECT MANAGER		CHECKED BY: PROJECT ENGINEER			
ORIGINAL		207-1747 CCS27 COORDINATE			
BY RNT		1847-6309 CCS83 COORDINATE			
APPROVED		41951-14 -D			



11/10/20 \* 3:47 pm \* 7259.01 CHOLLAS CRANE PROJECT.dwg



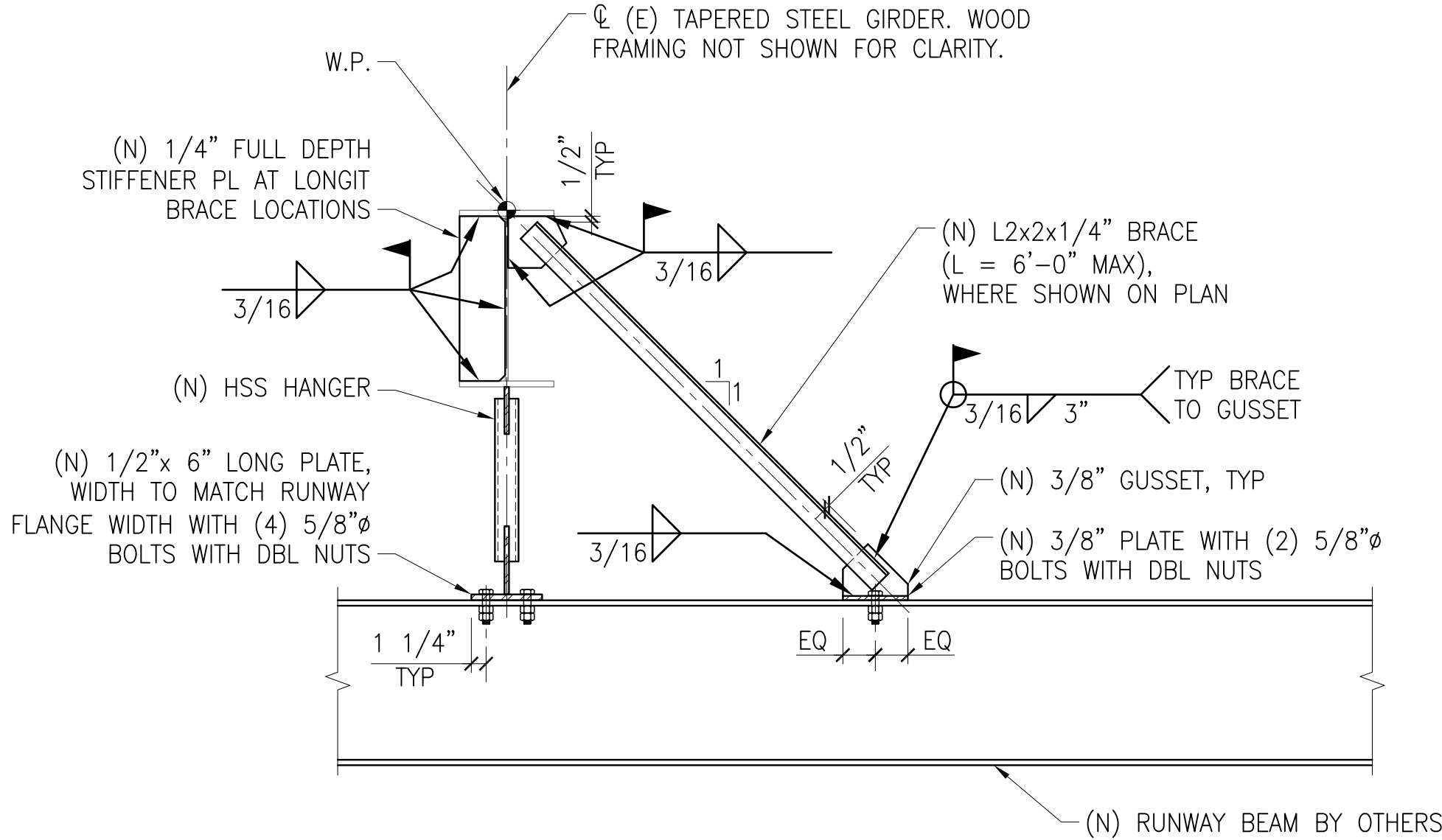
NOTES:

- PER "SCOPE OF WORK AND CRANE PERFORMANCE SPECIFICATION" NOTES ON SHEET S-1 SUPPORT AND BRACING DETAILS SHALL BE COORDINATED WITH APPROVED/PERMITTED CRANE AND RUNWAY DRAWINGS PRIOR TO FABRICATION. DETAILS ARE SUBJECT TO CHANGE AS A RESULT OF THIS REVIEW.
- PROVIDE 1" LONGER SLOT IN TOP OF HSS HANGER TO ALLOW FOR ADJUSTMENT.
- CONTRACTOR TO FOLLOW PROCEDURES FOR ABATEMENT OF LEAD-BASED PAINT IN THE EXISTING STEEL GIRDERS. SEE TECHNICAL SPECIFICATIONS.

(N) RUNWAY BEAM SUPPORT

SCALE: 1" = 1'-0"

7



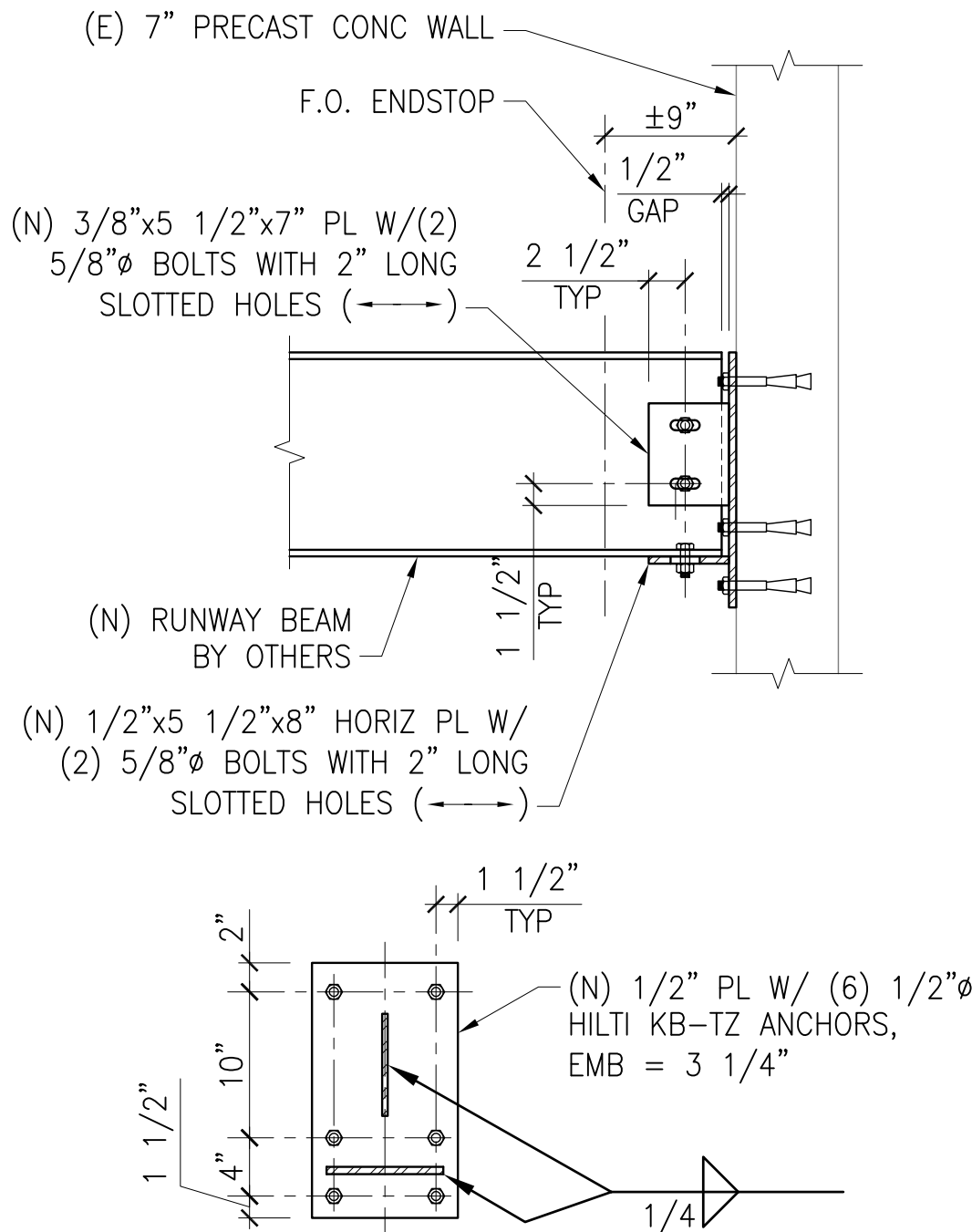
NOTES:

- SEE NOTES ON 7 FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO FOLLOW PROCEDURES FOR ABATEMENT OF LEAD-BASED PAINT IN THE EXISTING STEEL GIRDERS. SEE TECHNICAL SPECIFICATIONS.

(N) RUNWAY BEAM SUPPORT AND LONGITUDINAL BRACE

SCALE: 1" = 1'-0"

9



NOTE: SEE NOTES ON 7 FOR ADDITIONAL INFORMATION.

(N) RUNWAY BEAM SUPPORT AT (E) CONCRETE WALL

SCALE: 1" = 1'-0"

10

S-6

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING  
0 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



Engineering & Capital Projects

**MARTIN & LIBBY**  
STRUCTURAL ENGINEERS  
4452 Glacier Avenue, San Diego, CA 92120  
Ph (619) 280-9307 F (619) 284-3533  
Job No 7259.01

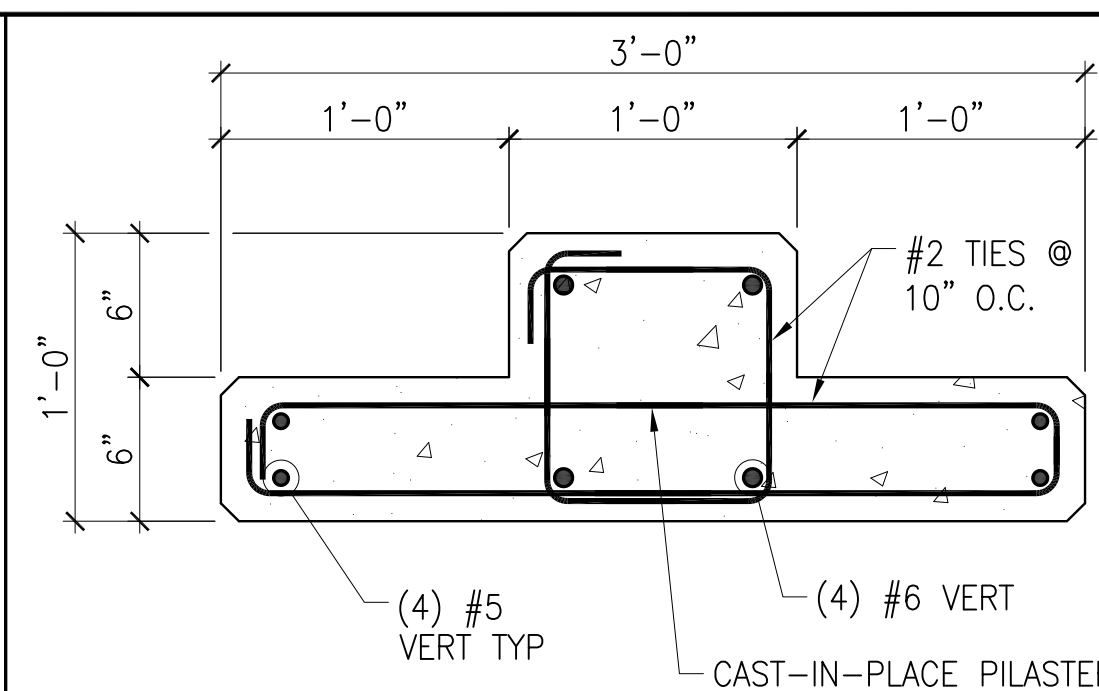


PLANS FOR THE CONSTRUCTION OF Chollas Crane Replacement NEW CRANE SUPPORT DETAILS			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING & CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 22 SHEETS		WBS L-14002.4	
APPROVED:  FOR CITY ENGINEER JASON GRANI		11/16/2020 DATE C77208	
DEPUTY CITY ENGINEER		RCE#	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	RNT		11/16/20
DATE STARTED		DATE COMPLETED	
CONTRACTOR		INSPECTOR	

PTS: 667514

Chollas Crane Replacement

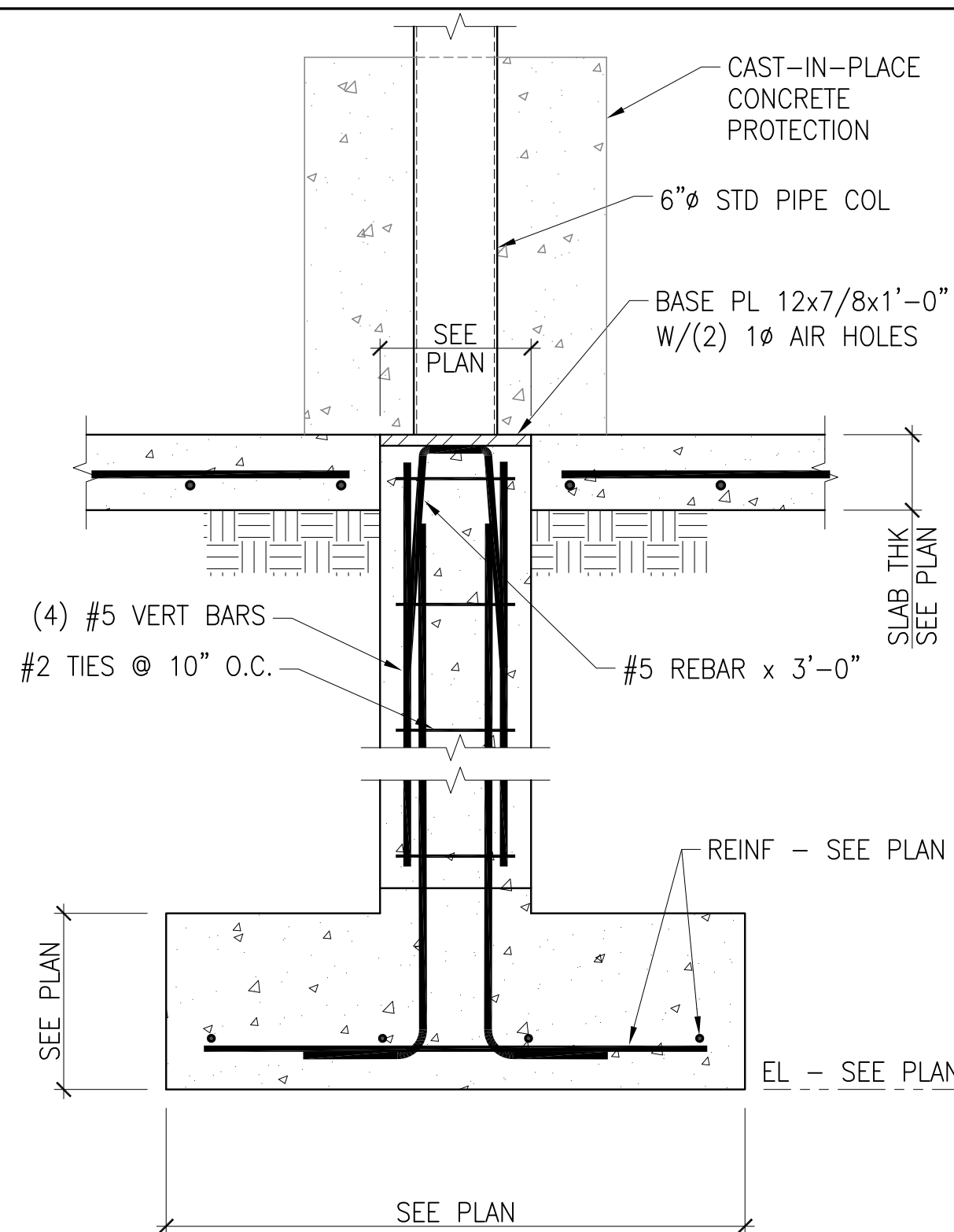




4

5

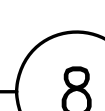
SCALE: 1 1/2" = 1'-0"



1

1.

SCALE: 1" = 1'-0"



8

'SIMPSON' TYPE 'TD'  
 JST HANGER @  
 VALLEY RAFTER

'SIMPSON' TYPE 'F'  
 JST HANGER, TYP

9"

1" CLR

TAPERED STEEL GIRDER

BENT PL 7"x1/2"x3" SLOPE  
 PL SAME AS ROOF GIRDER

(2) 5/8" ERUCTION BOLTS, TYP

(2) 11/16"x1 1/2" SLOTTED  
 HOLES IN GIRDER FLANGE, TYP

**(E) ROOF VALLEY DETAIL**  
 SCALE: 1" = 6"

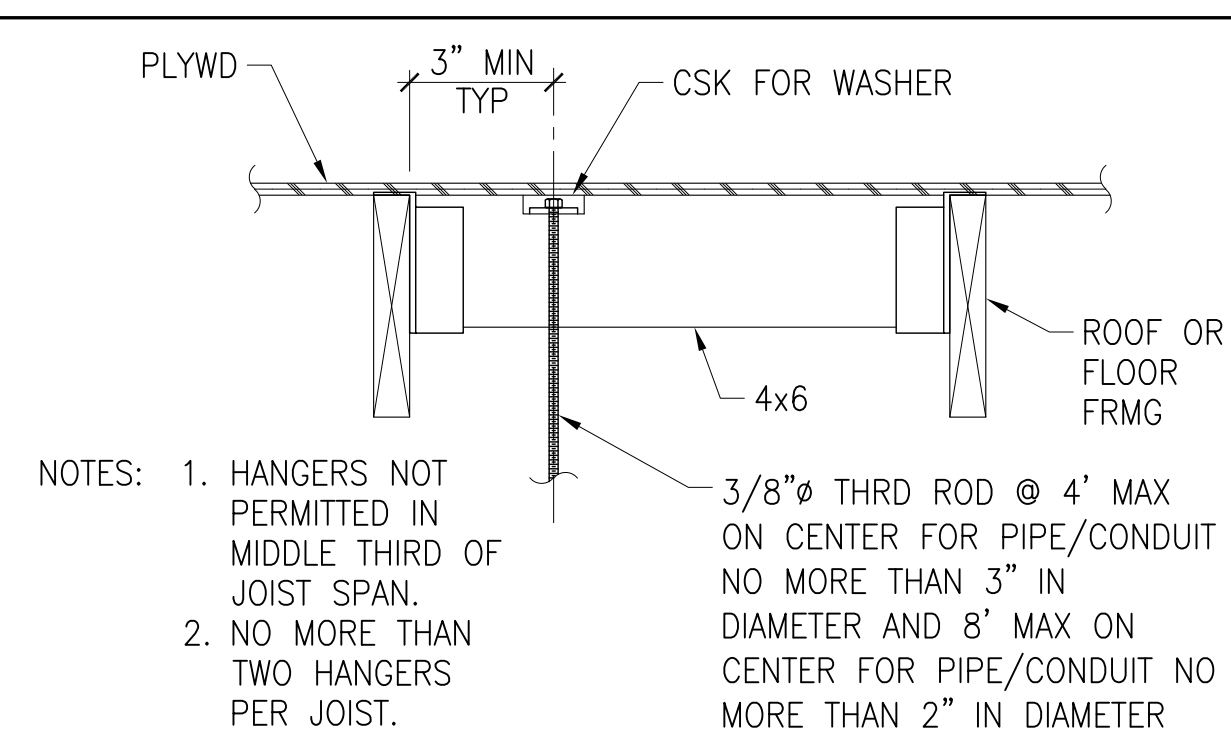
10

SCALE: 1" = 1'-0"



13

SCALE: 1" = 1'-0"



14

SCALE: 1 1/2" = 1'-0"

S-7

PTS: 667514



SYMBOLS:

DASHED SYMBOL INDICATES FIXTURE, DEVICE, OUTLET OR EQUIPMENT EXISTING TO REMAIN.

DASHED SYMBOL WITH HASH INDICATES FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO BE REMOVED.

1

NOTE REFERENCE

#

FEEDER REFERENCE, SEE FEEDER SCHEDULE.

3

E1

DETAIL NUMBER DESIGNATION.  
SHEET DETAIL REFERENCED ON.

A

E1

PHOTO LETTER DESIGNATION  
SHEET PHOTO APPEARS ON

3/E39

DETAIL OR SECTION REFERENCES IN NOTES.

RACEWAY SYSTEMS

\\\\\\\\R\\\\\\\\

CONDUIT OR WIRING TO BE REMOVED.

—————

CONDUIT CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS.

- - - - -

CONDUIT CONCEALED IN OR UNDER SLAB.

—— XN ———

NEW WIRE INSTALLED IN EXISTING CONDUIT.

—— XR ——

REMOVE EXISTING WIRE EXISTING CONDUIT TO REMAIN.

—— OH ——

OVERHEAD CONDUIT AND/OR WIRING

~~~~~

FLEXIBLE CONDUIT.

OUTLETS AND RECEPTACLES

⊕

DUPLEX CONVENIENCE RECEPTACLE 20A, 125V. WALL MOUNTED DEVICE AT 18" AFF (MIN 15" TO BOTTOM) UON.

MISCELLANEOUS

J

J

JUNCTION OR OUTLET BOX. CEILING OR WALL MOUNTED AS INDICATED. LOCATE ABOVE ACCESSIBLE CEILINGS UON.

SURFACE

FLUSH

SPECIAL PANEL OR CABINET, AS NOTED.

T

TRANSFORMER (PLAN VIEW)

NON-FUSED SAFETY DISCONNECT SWITCH

●

GROUND ROD

GROUND ROD IN FLUSH UNDERGROUND UTILITY PULL BOX

G

GROUNDING CONDUIT, OR WIRE.

SITE WORK

— E —

ELECTRICAL UNDERGROUND DUCT BANK.

— XE —

UNDERGROUND CONDUIT OR WIRING, EXISTING TO REMAIN.

EHH

UNDERGROUND ELECTRIC HANDHOLE

PB

OR

PULL BOX

SINGLE LINE DIAGRAM:

N

NEUTRAL BUS OR TERMINALS

GROUNDING ELECTRODE

G

GROUND BUS OR TERMINALS

PNL

PANELBOARD

FUSED SWITCH

CARTRIDGE FUSE

ST

SHUNT TRIP

M

CURRENT TRANSFORMER AND METER

42,000

▶

SHORT CIRCUIT CURRENT, AMPS

COLD WATER PIPE

TRANSFORMER

GROUND ROD

3

MOTOR, "3" INDICATES HORSEPOWER

DISCONNECT AND OVERCURRENT DEVICES

CIRCUIT BREAKER

3P

NUMBERS OF POLES

100AI

TRIP (AMPERES)

100AF

FRAME (AMPERES)

42

I.C. (1000 AMPS)

\* "NA"

INDICATES NON-AUTOMATIC C/B

\* "NF"

INDICATES NON-FUSED SWITCH

\* "50"

INDICATES TRIP OR FUSE SIZE

\* "\*\*\*"

INDICATES FUSE SIZE PER MANUFACTURER'S RECOMMENDATION

SAFETY SWITCHES

3P

NUMBERS OF POLES

\*\*

FUSES SIZE (AMPS)

100AF

RATING (AMPERES)

RK5

FUSE CLASS (UL)

GENERAL NOTES:

THE FOLLOWING GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

INSTALLATION OF ELECTRICAL MATERIAL SHALL CONFORM WITH LOCAL REGULATIONS AND THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) AND OTHER GOVERNING CODES AND ORDINANCES.

ALL ELECTRICAL EQUIPMENT SHALL BE UL LABELED.

THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.

WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, TRANSFORMERS, GROUND FAULT PROTECTION SYSTEM, ETC. (ALL MATERIALS, ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE ARCHITECT.

ALL CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS WITH THHN INSULATION UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER. CONDUCTOR INSULATION SHALL BE THHN UNLESS OTHERWISE NOTED.

MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED.

INSTALL ALL EQUIPMENT, LUMINAIRES, DEVICES, CONDUIT AND CONDUIT SUPPORTS TO MEET SEISMIC CATEGORY III, SITE CLASS "D" REQUIREMENTS.

CONDUIT RUNS SHOWN ARE DIAGRAMMATIC ONLY. INSTALL ALL CONDUITS TO SUIT FIELD CONDITIONS.

PROVIDE PROPERLY SIZED LUGS AT ALL CIRCUIT BREAKER PANELS, FOR THE CONDUCTORS SHOWN TO CONNECT TO THESE LUGS.

SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR, SIZED PER CEC TABLE 250.122, SHALL BE PROVIDED, INSTALLED IN THE SAME CONDUIT AS THE CIRCUIT CONDUCTORS, FOR ALL FEEDER AND BRANCH CIRCUITS.

THE CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.

SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWING IS IN DOUBT OR WHERE THERE IS A DISCREPANCY, OR APPEAR TO BE AN ERROR ON THE DRAWINGS, BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS REASONABLE FOR PROCEDURE TO BE FOLLOWED.

VERIFY CIRCUITRY OF EXISTING DEVICES TO BE REMOVED PRIOR TO DEMOLITION AND PERFORM SPLICES AS REQUIRED TO MAINTAIN CONTINUITY OF CIRCUITS TO EXISTING DEVICE TO REMAIN.

PROVIDE TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL PANELBOARDS.

REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.

EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.

GENERAL NOTES:

PROVIDE NAME PLATES A MINIMUM SIZE OF 1" HIGH AND 3" WIDE BY 3/32" THICK MATTE WHITE (FOR NORMAL POWER) AND RED (FOR EMERGENCY POWER) LAMINATED PHENOLIC NAMEPLATES WITH 1/4" WHITE CHARACTERS ENGRAVED IN THE PLASTIC FOR ALL ITEMS OF ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO SWITCHBOARDS, PANEL BOARDS, AUTOMATIC TRANSFER SWITCHES, MOTOR CONTROL CENTERS, FEEDERS, CIRCUIT BREAKERS, RELAYS, TIME SWITCHES, DISCONNECT SWITCHES, EXPOSED PULL OR JUNCTION BOXES, AND ALL CONTROL EQUIPMENT. NAME PLATES SHALL BE ATTACHED WITH TWO (2) CADMIUM-PLATE SCREWS. ADHESIVE ATTACHMENT SHALL NOT BE EXPECTED. PUNCH STRIP TAPE TYPE NAME PLATES WITH CAR HOLDERS IN ANY FORM ARE PROHIBITED.

LABEL OUTSIDE OF ALL COVER PLATES OF WIRING DEVICES AND JUNCTION BOXES WITH CIRCUIT AND PANEL NUMBER. EACH BRANCH CIRCUIT DEVICE COVER PLATE SHALL BE LABELED (ENGRAVED OR SILK SCREEN) TO INDICATE THE BRANCH CIRCUIT AND PANEL NUMBER. DEVICE SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING: TOGGLE SWITCHES, DIMMER SWITCHES AND RECEPTACLES.

ALL PANEL BOX LABELS ARE TO BE MECHANICALLY FASTENED PER FACILITY MAINTENANCE DESIGN GUIDELINES.

ABBREVIATIONS

A

AMPERES, AMMETER

AC

ALTERNATING CURRENT

AF

AMPERE FRAME

AFF

ABOVE FINISHED FLOOR

AIC

AMPERES INTERRUPTING CAPACITY

AT

AMPERE TRIP

AUTO

AUTOMATIC

AWG

AMERICAN WIRE GAUGE

BC

BARE COPPER CONDUCTOR

BKR

BREAKER

C

CONDUIT

CB

CIRCUIT BREAKER

CKT

CIRCUIT

CO

CONDUIT ONLY

CONC

CONCRETE

CU

COPPER

DC

DIRECT CURRENT

E

EXISTING

ENCL

ENCLOSED

ETR

EXISTING TO REMAIN

EQUIP

EQUIPMENT

GFCI

GROUND OR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER

GND

GROUND

HP

HORSE POWER

JB

JUNCTION BOX

KAIC

THOUSAND AMPS INTERRUPTING CAPACITY

KCM

1000 CIRCULAR MILS

KVA

KILOVOLT AMPERES

KW

KILOWATT

KWH

KILOWATT HOUR

LHH

LIGHTING HANDHOLE

LV

LOW VOLTAGE (BELOW 600V)

M

MOTOR

MAX

MAXIMUM

MIN

MINIMUM

MTD

MOUNTED

MTG

MOUNTING

HT

HEIGHT

N/A

NOT APPLICABLE

NIC

NOT IN CONTRACT

NRTL

NATIONALLY RECOGNIZED TESTING LABORATORY

NTS

NOT TO SCALE

P

POLE OR PHASE

PVC

POLYVINYL CHLORIDE

REQD

REQUIRED

RMC

RIGID METAL CONDUIT

SCH

SCHEDULE

TYP

TYPICAL

UON

UNLESS OTHERWISE NOTED

VA

VOLT AMPERES

VFD

VARIABLE FREQUENCY DRIVE

WP

WEATHERPROOF

XFMR

TRANSFORMER

XN

NEW WIRE INSTALLED IN EXISTING CONDUIT

CONSTRUCTION CHANGE / ADDENDUM

CHANGE

DATE

AFFECTED OR ADDED SHEET NUMBERS

APPROVAL NO.

WARNING

0

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

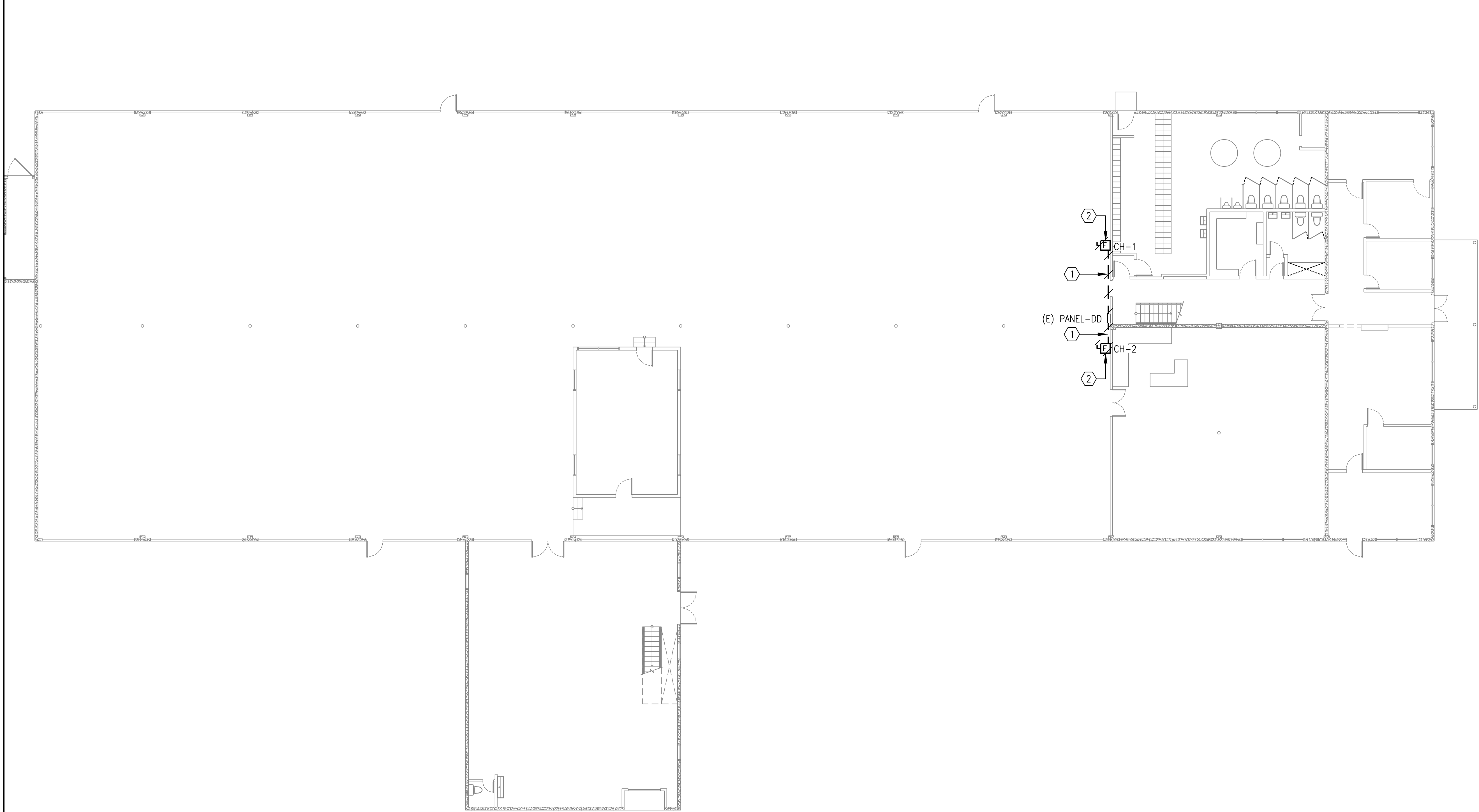
The City of SANDIEGO

Engineering &amp

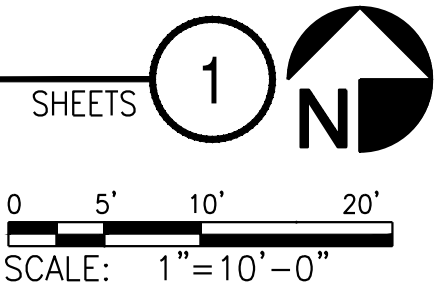


KEY NOTES:

- 1
- DEMOLISH CONDUIT AND CABLE FROM DISCONNECT BACK TO PANEL DD.
- 2
- DEMOLISH DISCONNECT AND DEMOLISH CONDUIT AND CABLE TO CRANE BUSSING.



ELECTRICAL DEMOLITION FLOOR PLAN - CRANE  
SCALE: NTS



E-2

| CONSTRUCTION CHANGE / ADDENDUM |      |                                 |              |
|--------------------------------|------|---------------------------------|--------------|
| CHANGE                         | DATE | AFFECTED OR ADDED SHEET NUMBERS | APPROVAL NO. |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |



WARNING


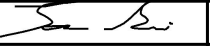
0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of  
**SAN DIEGO**

Engineering &  
Capital Projects

| AS-BUILT INFORMATION                                                                                                                                                                                                                                  |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| MATERIALS                                                                                                                                                                                                                                             | MANUFACTURER |
| -                                                                                                                                                                                                                                                     | -            |
| -                                                                                                                                                                                                                                                     | -            |
| -                                                                                                                                                                                                                                                     | -            |
| -                                                                                                                                                                                                                                                     | -            |
| -                                                                                                                                                                                                                                                     | -            |
| CONSULTANT                                                                                                                                                                                                                                            |              |
|  <b>BSE ENGINEERING, INC.</b><br>10680 TREENA ST., SUITE 100<br>SAN DIEGO, CA 92131<br>TEL: 858.800.6000<br>FAX: 858.800.6001<br><br>BSE PROJECT NO. 19-308-1035 | SPEC. NO.    |
|                                                                                                                                                                  |              |

| PLANS FOR THE CONSTRUCTION OF<br>Chollas Crane Replacement                                                                                                  |  |                                   |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|---------------------------------------------------------------------------------------|
| ELECTRICAL DEMOLITION FLOOR PLAN - CRANE                                                                                                                    |  |                                   |                                                                                       |
| CITY OF SAN DIEGO, CALIFORNIA<br>ENGINEERING & CAPITAL PROJECTS DEPARTMENT<br>SHEET 18 OF 22 SHEETS                                                         |  | WBS L-14002-4                     |                                                                                       |
| APPROVED: <br>FOR CITY ENGINEER<br>JASON GRANI<br>DEPUTY CITY ENGINEER |  | 11/16/2020<br>DATE C77208<br>RCE* |                                                                                       |
| SUBMITTED BY: FRANCIS S. MARQUEZ<br>PROJECT MANAGER                                                                                                         |  | CHECKED BY: PROJECT ENGINEER      |                                                                                       |
| DESCRIPTION                                                                                                                                                 |  | BY                                | APPROVED                                                                              |
| ORIGINAL                                                                                                                                                    |  | BSE                               |  |
| DATE                                                                                                                                                        |  | 11/16/20                          |                                                                                       |
| FILMED                                                                                                                                                      |  |                                   |                                                                                       |
| DATE STARTED                                                                                                                                                |  | 41951-18-D                        |                                                                                       |
| DATE COMPLETED                                                                                                                                              |  |                                   |                                                                                       |



GENERAL NOTES:

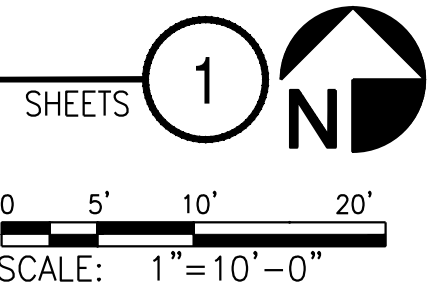
1. CRANE IS BASED ON COFFING HOISTS, TWO (2) TON CRANE, EC4008.

KEY NOTES:

- 1 PROVIDE 3/4"C, 3#12 AWG, & #12G TO DISCONNECT.
- 2 PROVIDE 3/4"C, 3#12 AWG, & #12G TO CRANE LOCATED IN THE CENTER OF MAINTENANCE ROOM. CRANE SHALL BE MOUNTED TO CEILING.
- 3 PROVIDE NEMA 3R, FUSED, 600V, 30A, HEAVY DUTY DISCONNECT SWITCH FOR CRANE. FUSE PER MANUFACTURER'S INSTRUCTION.


E-3

ELECTRICAL FLOOR PLAN - CRANE  
SCALE: NTS



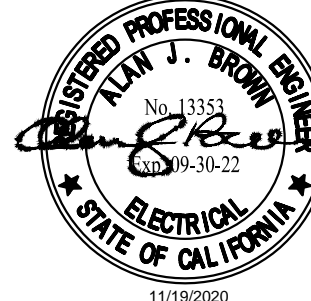
| AS-BUILT INFORMATION |              |
|----------------------|--------------|
| MATERIALS            | MANUFACTURER |
| -                    | -            |
| -                    | -            |
| -                    | -            |
| -                    | -            |

| CONSULTANT | SPEC. NO. |
|------------|-----------|
|            |           |



**BSE ENGINEERING, INC.**  
10680 TREENA ST., SUITE 100  
SAN DIEGO, CA 92131  
TEL: 858.600.6000  
FAX: 858.600.6001

BSE PROJECT NO. 19-308-1035



11/16/2020

PLANS FOR THE CONSTRUCTION OF  
Chollas Crane Replacement

ELECTRICAL FLOOR PLAN - CRANE

|                                                                                                     |     |                                   |          |                                                                                     |  |
|-----------------------------------------------------------------------------------------------------|-----|-----------------------------------|----------|-------------------------------------------------------------------------------------|--|
| CITY OF SAN DIEGO, CALIFORNIA<br>ENGINEERING & CAPITAL PROJECTS DEPARTMENT<br>SHEET 19 OF 22 SHEETS |     |                                   |          | WBS L-14002-4                                                                       |  |
| APPROVED FOR CITY ENGINEER JASON GRANI<br>DEPUTY CITY ENGINEER                                      |     | 11/16/2020<br>DATE C77208<br>RCE# |          | SUBMITTED BY: FRANCIS S. MARQUEZ<br>PROJECT MANAGER<br>CHECKED BY: PROJECT ENGINEER |  |
| DESCRIPTION                                                                                         | BY  | APPROVED                          | DATE     | FILMED                                                                              |  |
| ORIGINAL                                                                                            | BSE |                                   | 11/16/20 |                                                                                     |  |
|                                                                                                     |     | DATE STARTED                      |          | 207-1747<br>CCS27 COORDINATE                                                        |  |
|                                                                                                     |     | DATE COMPLETED                    |          | 1847-6309<br>CCS83 COORDINATE                                                       |  |
| CONTRACTOR INSPECTOR                                                                                |     |                                   |          | 41951-19-D                                                                          |  |


| CONSTRUCTION CHANGE / ADDENDUM |      |                                 |              |
|--------------------------------|------|---------------------------------|--------------|
| CHANGE                         | DATE | AFFECTED OR ADDED SHEET NUMBERS | APPROVAL NO. |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of

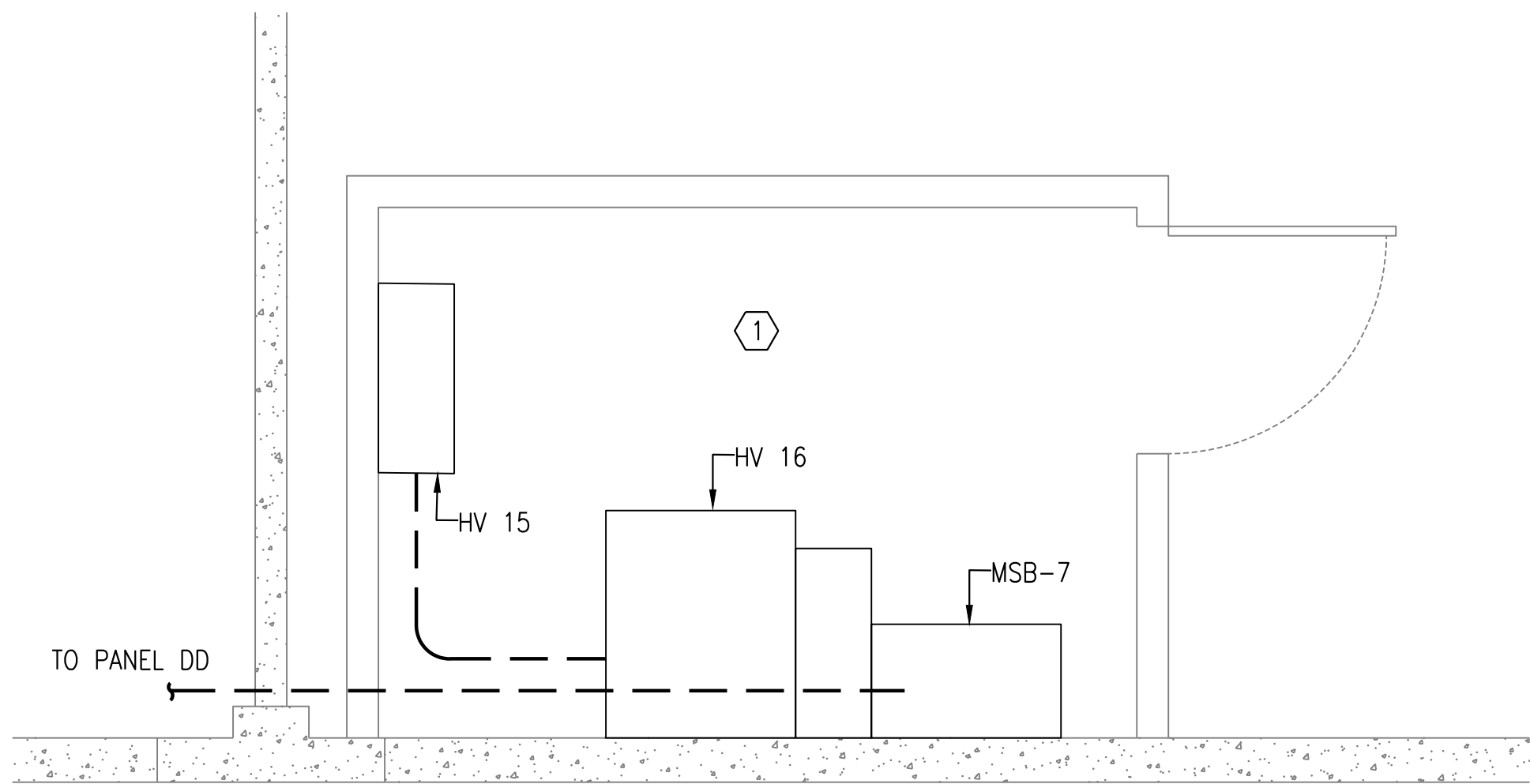
**SAN DIEGO**

Engineering &  
Capital Projects



KEY NOTES:

① ELECTRIC ROOM LOCATED ON SECOND FLOOR.



ENLARGED ELECTRICAL ROOM - CRANE  
SCALE: NTS

SHEETS

1

0 1/2' 1' 2' 4'

SCALE: 1/2"=1'-0"

E-4

| CONSTRUCTION CHANGE / ADDENDUM |      |                                 |              |
|--------------------------------|------|---------------------------------|--------------|
| CHANGE                         | DATE | AFFECTED OR ADDED SHEET NUMBERS | APPROVAL NO. |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |

WARNING

0

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of

**SAN DIEGO**

Engineering & Capital Projects

AS-BUILT INFORMATION

| MATERIALS | MANUFACTURER |
|-----------|--------------|
| -         | -            |
| -         | -            |
| -         | -            |
| -         | -            |

CONSULTANT

**BSE ENGINEERING, INC.**  
10680 TREENA ST., SUITE 100  
SAN DIEGO, CA 92131  
TEL: 858.800.6000  
FAX: 858.800.6001  
  
BSE PROJECT NO. 19-308-1035

SPEC. NO.

CONTRACTOR INSPECTOR

PLANS FOR THE CONSTRUCTION OF  
Chollas Crane Replacement

ENLARGED FLOOR PLAN - ELECTRICAL ROOM

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING & CAPITAL PROJECTS DEPARTMENT  
SHEET 20 OF 22 SHEETS

WBS L-14002-4

APPROVED:   
FOR CITY ENGINEER  
JASON GRANI  
DEPUTY CITY ENGINEER

DATE 11/16/2020  
C77208  
RCE\*

| DESCRIPTION | BY  | APPROVED | DATE     | FILMED |
|-------------|-----|----------|----------|--------|
| ORIGINAL    | BSE |          | 11/16/20 |        |
|             |     |          |          |        |
|             |     |          |          |        |

SUBMITTED BY: FRANCIS S. MARQUEZ  
PROJECT MANAGER  
CHECKED BY:   
PROJECT ENGINEER

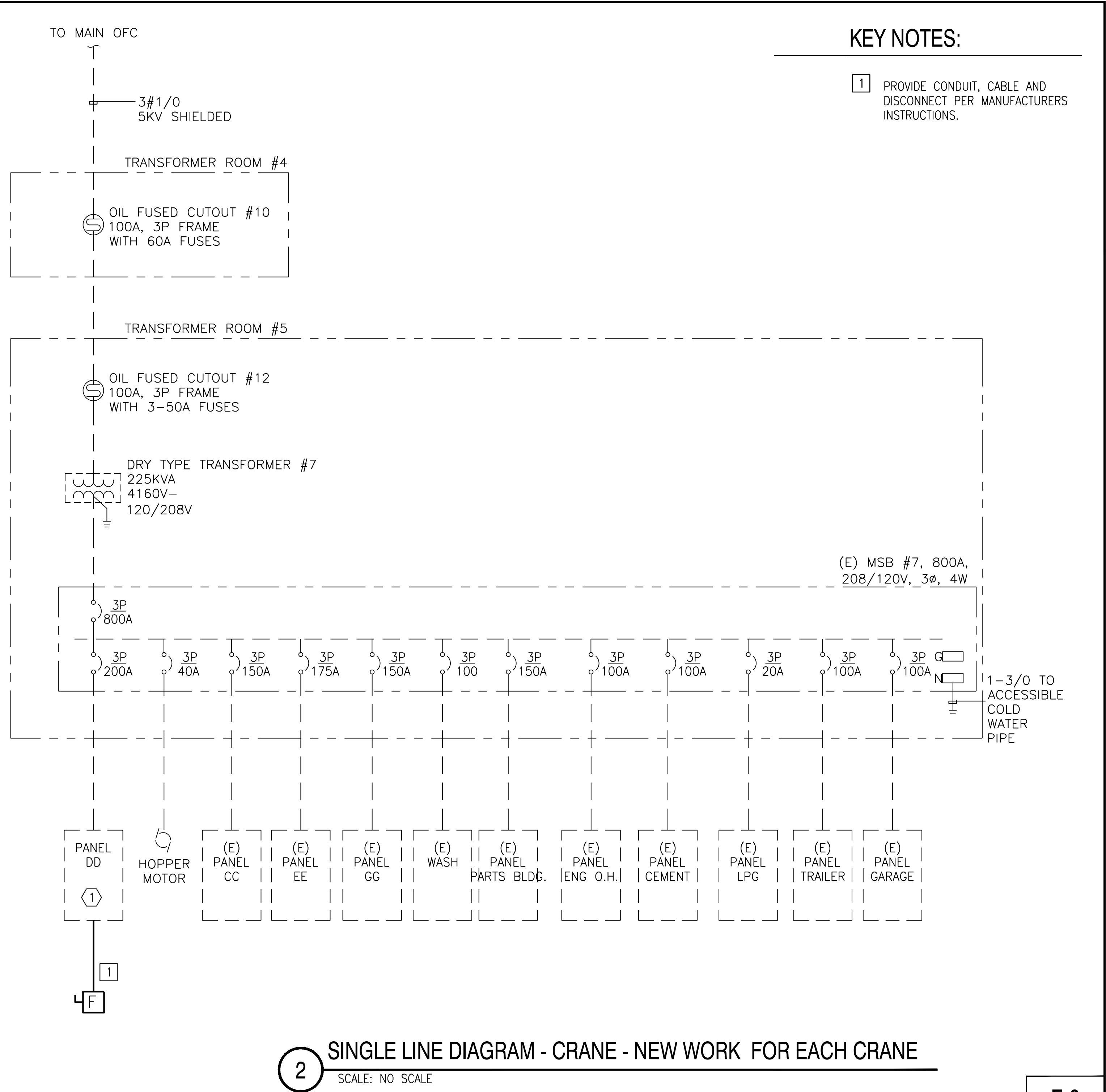
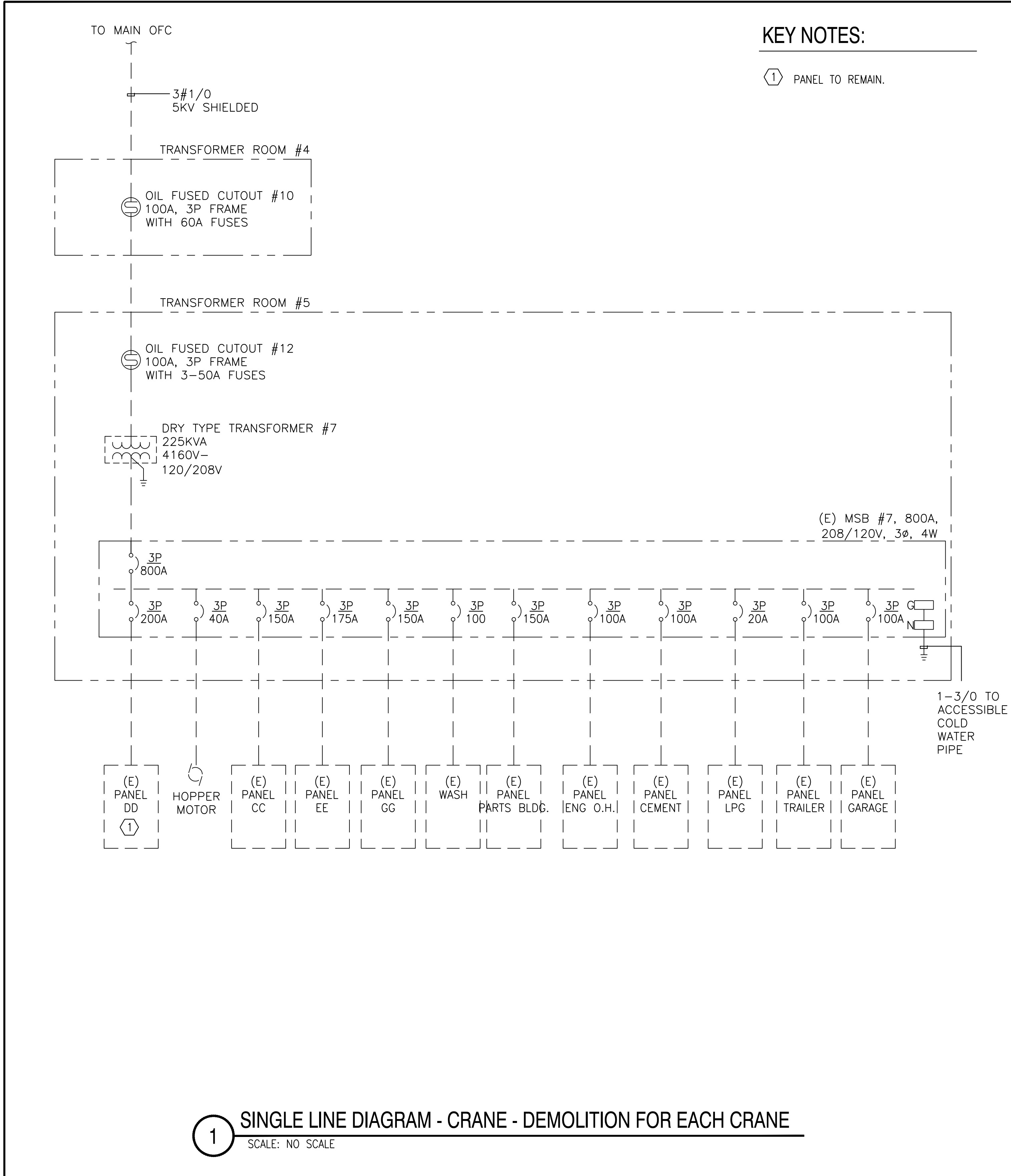
207-1747  
CCS27 COORDINATE  
  
1847-6309  
CCS83 COORDINATE  
  
41951-20 -D

DATE STARTED  
DATE COMPLETED









| CONSTRUCTION CHANGE / ADDENDUM |      |                                 |              |
|--------------------------------|------|---------------------------------|--------------|
| CHANGE                         | DATE | AFFECTED OR ADDED SHEET NUMBERS | APPROVAL NO. |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |
|                                |      |                                 |              |

| WARNING                                                       |   |
|---------------------------------------------------------------|---|
| 0                                                             | 1 |
| IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE. |   |

The City of  
**SAN DIEGO**

Engineering & Capital Projects

| AS-BUILT INFORMATION                                                                                                                                 |              | PLANS FOR THE CONSTRUCTION OF<br>Chollas Crane Replacement                                                             |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------|--|
| MATERIALS                                                                                                                                            | MANUFACTURER | SINGLE LINE DIAGRAM - CRANE                                                                                            |  |
| -                                                                                                                                                    | -            | CITY OF SAN DIEGO, CALIFORNIA<br>ENGINEERING & CAPITAL PROJECTS DEPARTMENT<br>SHEET 22 OF 22 SHEETS                    |  |
| -                                                                                                                                                    | -            | WBS L-14002-4                                                                                                          |  |
| -                                                                                                                                                    | -            | CITY OF SAN DIEGO, CALIFORNIA<br>ENGINEERING & CAPITAL PROJECTS DEPARTMENT<br>SHEET 22 OF 22 SHEETS                    |  |
| -                                                                                                                                                    | -            | 11/16/2020<br>DATE C77208                                                                                              |  |
| CONSULTANT                                                                                                                                           |              | SUBMITTED BY: FRANCIS S. MARQUEZ<br>PROJECT MANAGER                                                                    |  |
| SPEC. NO.                                                                                                                                            |              | CHECKED BY: PROJECT ENGINEER                                                                                           |  |
| BSE ENGINEERING, INC.<br>10680 TREENA ST., SUITE 100<br>SAN DIEGO, CA 92131<br>TEL: 858.800.6000<br>FAX: 858.800.6001<br>BSE PROJECT NO. 19-308-1035 |              | APPROVED: JASON GRANI<br>FOR CITY ENGINEER<br>DEPUTY CITY ENGINEER<br>DATE 11/16/20<br>RCE*<br>DATE 11/16/20<br>FILMED |  |
| CONTRACTOR INSPECTOR                                                                                                                                 |              | DATE STARTED<br>DATE COMPLETED                                                                                         |  |