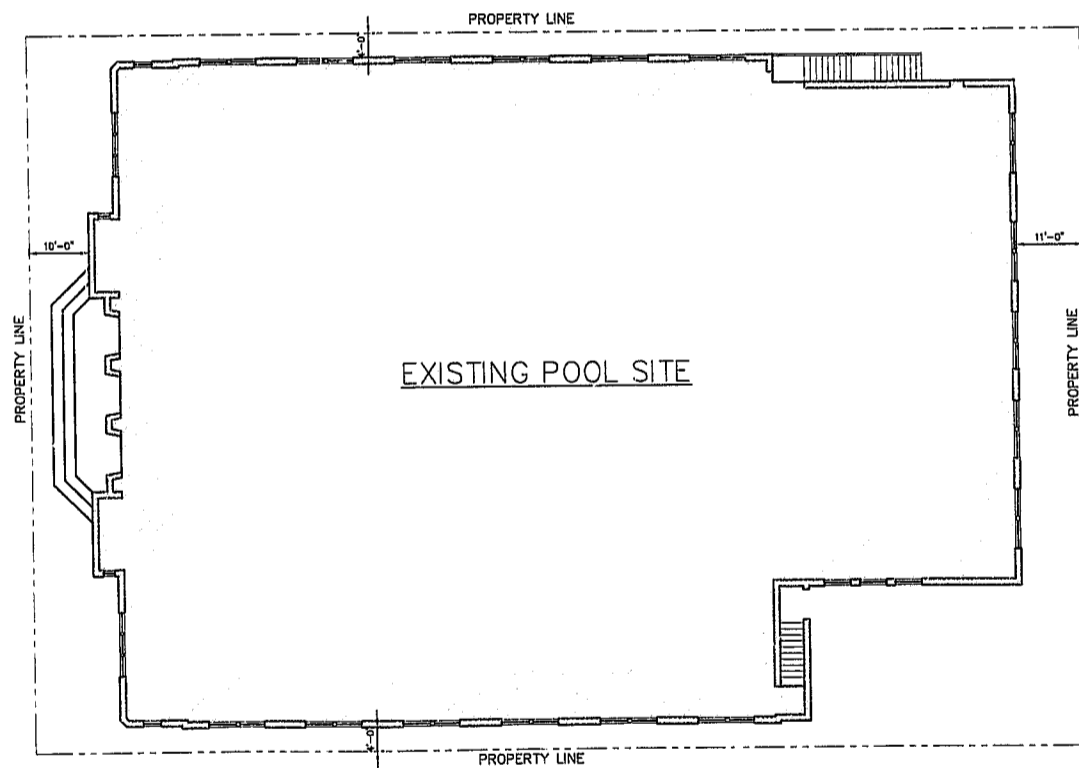


B0057-05 219 W. MARIPOSA AVE. CITY OF EL SEGUNDO 1 OF 2

EL SEGUNDO PLUNGE

219 W. MARIPOSA AVE.
EL SEGUNDO, CA. 90245

MARIPOSA AVE.



SITE PLAN
SCALE: 1/16"=1'-0"

CITY OF EL SEGUNDO
COMMUNITY ECONOMIC, AND DEVELOPMENT
SERVICES DEPARTMENT

JOB ADDRESS: 219 W. MARIPOSA AVE
OWNER: El Segundo PLAN CHECK #: 2005-105
DATE: 1/18/05 CODE: 0-0

APPROVAL/ROUTING

ARCHITECTURAL/STRUCTURAL	DATE	SIGNATURE
ENERGY STANDARD:		
ELECTRICAL:		
MECH. & PLUMBING:		
PIPE REVENTION:		
PLANNING:		
PUBLIC WORKS:		
POLICE:		
RECREATION & PARKS:		

SCOPE OF WORK

SCOPE OF WORK:

TO REPLACE MATERIALS, MEMBERS AND CONNECTORS OF THE MAIN ROOF EXISTING STEEL TRUSSES THAT ARE LOSING STRUCTURAL CAPACITY TO CARRY GRAVITY LOADS ONLY DUE TO CORROSION. COMPLETING ALL WORKS UNDER THIS SCOPE OF WORK DOES NOT NECESSARILY PREVENT LOSS OF LIFE OR INJURY, OR PREVENT DAMAGE TO THIS BUILDING.

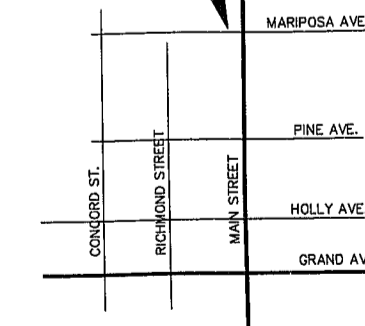
NOT INCLUDED IN THE SCOPE OF WORK:

MRH IS NOT RESPONSIBLE FOR RETROFIT AND STRENGTHENING OF THE EXISTING STRUCTURES, INCLUDING COMPONENTS AND ELEMENTS TO THE CURRENT ADOPTED CODE BY THE CITY OF EL SEGUNDO FOR VERTICAL AND LATERAL FORCES.

SHEET INDEX

SHEET NO.	SHEET TITLE
1	PLOT PLAN / VICINITY PLAN
2	GENERAL NOTES
3	SPECIAL NOTES & TYPICAL DETAILS
4	ROOF FRAMING PLAN
5	TRUSS ELEVATIONS
6	DAMAGE REPAIR SCHEDULE
7	REPAIR DETAILS

PROJECT SITE



VICINITY MAP
NOT TO SCALE



M.R.H. STRUCTURAL ENGINEERS
1411 N. BATAVIA ST., 202
EL SEGUNDO, CA 90245
TEL: (415) 490-8888
FAX: (415) 490-8889

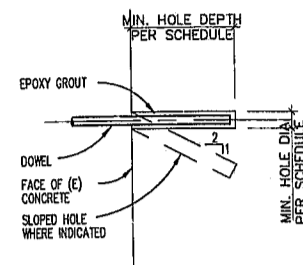
EL SEGUNDO PLUNGE
219 W. MARIPOSA AVE.
EL SEGUNDO CA 90245

PLOT PLAN /
VICINITY PLAN

DATE:
F. PEREZ
MRH
3/1/2005
AS NOTED
04106

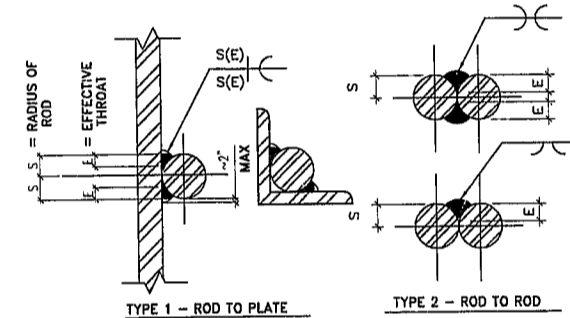
1

- PROCEDURE:**
1. DRILL HOLE OF PROPER DIAMETER AND DEPTH USING A CARBIDE TIPPED DRILL OR CORING BIT. AVOID ANY EXISTING REINFORCING STEEL BY LOCATING HOLE SLIGHTLY.
 2. CLEAN HOLE THOROUGHLY BY VACUUM OR AIR PRESSURE.
 3. WAXE SURF THE HOLE IS DRY AND CLEAN BEFORE GROUTING.
 4. PLACE EPOXY GROUT IN HOLE WITH CALLING OUT OF SIMILAR EQUIPMENT. STARTING AT BOTTOM, FILL HOLE APPROX. 2/3 FULL.
 5. COAT DOBEL WITH SAME EPOXY GROUT AND INSERT INTO HOLE. FIBROUS MATERIAL AROUND THE SIZES OF THE BAR AND COMPLETELY FILLING ALL VOIDS.
 6. PROVIDE SUPPORT FOR DOBEL BY TUNG THE BAR OR OTHER ELEMENT UNTIL GROUT HAS CURED.
 7. EPOXY GROUT SHALL BE "HY-150" BY HILTI CORP. (300 HOURS).
 8. SPECIAL INSPECTION IS REQUIRED.



BOLT SIZE	BAR SIZE	MIN. DIA.	MIN. DEPTH
3/8"	#3	1/2"	4"
1/2"	#4	5/8"	5"
5/8"	#5	3/4"	6"
3/4"	#6	7/8"	8"
7/8"	#7	1"	10"
1"	#8	1 1/8"	12"

TYPICAL BOLT EMBEDMENT DETAIL



TYPE 1 - ROD TO PLATE

TYPE 2 - ROD TO ROD

SCHEDULE

ROD DIAMETER	MIN WELD SIZES AND LENGTH			
	SIZE OF WELD		LENGTH OF WELD "L"	
	TYPE 1	TYPE 2	WELD ONE SIDES	WELD TWO SIDES
1/2"	1/8"	3/16"	6"	4"
5/8"	3/16"	3/16"	8"	4"
3/4"	1/4"	1/4"	9"	6"
7/8"	1/4"	5/16"	12"	7"
1"	1/4"	5/16"	12"	7"
1 1/8"	1/4"	3/8"	14"	9"
1 1/4"	1/4"	3/8"	14"	9"

TYPICAL DETAIL WELDING

NOTE:

1. TYPE 1: EFFECTIVE THROAT, $E=0.40 S$ USE LOW HYDROGEN E 70XX ELECTRODES
2. TYPE 2: EFFECTIVE THROAT, $E=0.60 S$ USE LOW HYDROGEN E 80XX ELECTRODES
3. TYPE 3: USE LOW HYDROGEN E 70XX ELECTRODES
4. TYPE 4: USE LOW HYDROGEN E 70XX ELECTRODES
5. USE A-36 ROD

PROCEDURES TO INSPECT CORRODED TRUSSES, BRACES AND CONNECTIONS:

1. CONTRACTOR SHALL HAVE A STRUCTURAL ENGINEER REGISTER IN THE STATE OF CALIFORNIA TO PERFORM VISUAL INSPECTIONS OF ALL MEMBERS AND CONNECTIONS OF THE MAIN ROOF STRUCTURE INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:
 - a. ALL MEMBERS AND CONNECTIONS OF ROOF TRUSSES.
 - b. ALL MEMBERS AND CONNECTIONS OF ROOF DIAGONAL CORNER BRACES.
 - c. ALL MEMBERS AND CONNECTIONS OF ROOF DIAPHRAGM CROSS BRACES.
2. CONTRACTOR SHALL SUBMIT A REPORT TO THE STRUCTURAL ENGINEER OF RECORD FOR STRUCTURAL VISUAL INSPECTIONS AS DESCRIBED ABOVE AND PREPARED BY A STRUCTURAL ENGINEER REGISTER IN THE STATE OF CALIFORNIA.
3. CONTRACTOR SHALL REMOVE ALL PAINT, COATING AND COVERS FROM EXISTING TRUSSES, BRACES AND THEIR CONNECTIONS.
4. NON-DESTRUCTIVE TESTS SHALL BE PERFORMED ON ITEMS LISTED IN ITEM 1 (ABOVE) BY AN APPROVED MATERIAL TESTING FACILITY. EXISTING STEEL SHALL BE TESTED BY THE FOLLOWING NON-DESTRUCTIVE METHODS:
 - a. ULTRASONIC TESTING PER ASTM E164.
 - b. RADIOGRAPHY TESTING PER ASTM E94.
 - c. MAGNETIC PARTICLE TESTING PER ASTM E709.
 - d. INFRARED TESTING.

PRIOR TO TESTING CONTRACTOR SHALL SUBMIT A LIST OF MEMBERS AND CONNECTIONS WITH APPROPRIATE TESTING AT THAT MEMBER AND LOCATION TO THE STRUCTURAL ENGINEER.

ALL NON-DESTRUCTIVE TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

5. DESTRUCTIVE TESTS SHALL BE PERFORMED ON ITEMS LISTED IN ITEM 1 (ABOVE) BY AN APPROVED MATERIAL TESTING FACILITY. EXISTING STEEL SHALL BE TESTED BY THE FOLLOWING DESTRUCTIVE METHODS:
 - a. CHEMICAL TEST PER ASTM E50.
 - b. TENSION TEST PER ASTM E8.
 - c. MEASURING RESIDUAL STRESS PER ASTM E837.

PRIOR TO TESTING CONTRACTOR SHALL SUBMIT A LIST OF MEMBERS AND CONNECTIONS WITH APPROPRIATE TESTING AT THAT MEMBER AND LOCATION TO THE STRUCTURAL ENGINEER.

ALL DESTRUCTIVE TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

6. DESTRUCTIVE AND NON-DESTRUCTIVE TESTING SHALL NOT REDUCE THE STRENGTH AND SERVICEABILITY OF THE EXISTING STRUCTURE. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL DAMAGED OR REMOVED PARTS BY DESTRUCTIVE TEST.

7. CONTRACTOR IS RESPONSIBLE TO DETERMINE IF TRUSS MEMBERS HAVE ANY STRESS CORROSION CRACKING.

8. CONTRACTOR SHALL SUBMIT REPORTS TO THE STRUCTURAL ENGINEER FOR NON-DESTRUCTIVE AND DESTRUCTIVE TESTING OF STEEL MEMBERS AND CONNECTIONS AS DESCRIBED ABOVE. ALL REPORTS SHALL BE PREPARED BY A STRUCTURAL ENGINEER REGISTER IN THE STATE OF CALIFORNIA AND REVIEWED AND APPROVED BY A REGISTER CORROSION ENGINEER THE STATE OF CALIFORNIA.

9. NON-DESTRUCTIVE TESTS SHALL BE PERFORMED ON THE EXISTING CONCRETE WALLS WHERE WALL ANCHORS ARE USED BY AN APPROVED MATERIAL TESTING LAB. THE FOLLOWING NON-DESTRUCTIVE METHODS SHALL BE PERFORMED:
 - a. GROUND-PENETRATING RADAR.
 - b. PULSE VELOCITY PER ASTM C803.
 - c. ELECTRIC POTENTIAL.
 - d. ULTRASONIC MAPPING OF REBARS.

PRIOR TO TESTING CONTRACTOR SHALL SUBMIT A LIST OF LOCATIONS TO THE STRUCTURAL ENGINEER OF RECORD.

ALL NON-DESTRUCTIVE TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

10. DESTRUCTIVE TESTS SHALL BE PERFORMED ON THE EXISTING CONCRETE WALLS WHERE WALL ANCHORS ARE USED BY AN APPROVED MATERIAL TESTING LAB. THE FOLLOWING NON-DESTRUCTIVE METHODS SHALL BE PERFORMED:
 - a. COMPRESSION TESTING PER ASTM C39.
 - b. RAPID SLOUBLE-CHLORIDE TESTS.
 - c. CHLORIDE PENETRATION TEST (TO DETERMINE IF REBARS ARE CORRODED OR NOT).
 - d. TENSION TEST OF REINFORCING BARS PER ASTM E8.

PRIOR TO TESTING CONTRACTOR SHALL SUBMIT A LIST OF LOCATIONS TO THE STRUCTURAL ENGINEER OF RECORD.

ALL NON-DESTRUCTIVE TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

11. CONTRACTOR SHALL SUBMIT REPORTS TO THE STRUCTURAL ENGINEER FOR NON-DESTRUCTIVE AND DESTRUCTIVE TESTING OF CONCRETE WALLS AS DESCRIBED ABOVE. ALL REPORTS SHALL BE PREPARED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND REVIEWED AND APPROVED BY A REGISTERED CORROSION ENGINEER THE STATE OF CALIFORNIA.

12. THE RESULTS OF NONDESTRUCTIVE AND DESTRUCTIVE TESTING OF ALL MATERIAL, MEMBERS AND CONNECTIONS AS DESCRIBED ABOVE MAY EFFECT THE REPAIR PROCEDURES AND REPAIRS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALTERNATIVE REPAIR PROCEDURES AND DETAILS. ALTERNATIVE REPAIR PROCEDURE AND DETAILS MAY BE PROPOSED BY THE CONTRACTOR SUBJECT TO REVIEW AND APPROVAL OF THE CITY OF EL SEGUNDO AND THE STRUCTURAL ENGINEER OF RECORD. ALL THE COST ASSOCIATED FOR REVIEW AND APPROVAL OF ALTERNATIVE DETAILS SHALL BE PAID FOR BY THE CONTRACTOR.

PROTECTION:

1. ALL TRUSSES, BRACES AND CONNECTIONS SHALL BE PROTECTED BY APPROVED COLD GALVANIZING METHOD FOR THE EFFECTIVE LIFE OF THE STRUCTURE.
2. ALL TRUSSES, BRACES AND CONNECTIONS SHALL BE PROTECTED BY AN APPROVED PAINT TO RESIST CORROSION.

MAINTENANCE:

1. OWNER SHALL HAVE SCHEDULED MAINTENANCE PROGRAMS FOR INSPECTIONS OF ALL STRUCTURAL ELEMENTS

ANCHORAGE TO EXISTING CONCRETE

1. NO MECHANICAL EXPANSION ANCHORS ALLOWED.

CODE APPROVALS:

MANUFACTURER	ICBO ER #
HILTI	ER-5193
HY-150 EPOXY SYSTEM.	

NOTES:

- 1) CONTRACTOR SHALL OBTAIN AN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING THESE ANCHOR BOLTS.
- 2) CONCRETE SHALL HAVE $f'_c=3000$ psi.
- 3) ANCHOR BOLTS AND EMBEDDED REBAR SHALL BE SAMPLED AND TESTED BY A CERTIFIED DEPUTY INSPECTOR IN ACCORDANCE WITH THE 2001 CBC.
- 4) ALL ANCHOR BOLTS SHALL BE LOAD TESTED.
- 5) CONTINUOUS INSPECTION IS REQUIRED FOR ALL BOLT INSTALLATION.

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATIONS SHALL BE DONE ON ALL STEEL REPAIRED MEMBERS AND CONNECTORS PER SEC. 1702 OF THE 2001 CBC.

CITY OF EL SEGUNDO
 BUILDING SAFETY DIVISION
 350 MAINS STREET EL SEGUNDO CA 90245
 TEL. (310) 524-2380 FAX. (310) 322-4167

STRUCTURAL OBSERVATION PROGRAM
 (REQUIREMENTS OF THE STRUCTURAL OBSERVATION)

PROJECT ADDRESS: 219 W. MARIPOSA AVE. EL SEGUNDO CA. 90245 PERMIT APPL. NO.:
 DESCRIPTION OF WORK: TRUSS REPAIR
 OWNER: CITY OF EL SEGUNDO ARCHITECT: N/A ENGINEER: M.R.H. STRUCTURAL ENGINEERS

STRUCTURAL OBSERVATION PROGRAM (ONLY CHECKED ITEMS ARE REQUIRED)			
FOUNDATION	WALL	FRAME	DIAPHRAGM
<input type="checkbox"/> FOOTING, STEM WALLS, PIERS	<input type="checkbox"/> CONCRETE	<input type="checkbox"/> STEEL MOMENT FRAME	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> MAT FOUNDATION	<input type="checkbox"/> MASONRY	<input type="checkbox"/> STEEL BRACED FRAME	<input type="checkbox"/> STEEL DECK
<input type="checkbox"/> CAISSON, PILES, GRADE BEAMS	<input type="checkbox"/> WOOD	<input type="checkbox"/> CONCRETE MOMENT FRAME	<input type="checkbox"/> WOOD
<input type="checkbox"/> STEEP/RETAIN FOUNDATION	<input type="checkbox"/> OTHERS: CONNECTIONS TO (E) CONCRETE WALLS	<input type="checkbox"/> MASONRY WALL FRAME	<input type="checkbox"/> OTHERS
<input type="checkbox"/> OTHERS: HILTI/SPECIAL ANCHORS		<input type="checkbox"/> OTHERS: REPAIR OF STEEL TRUSSES & CONNECTIONS	

DECLARATION BY OWNER
 I, THE OWNER OF THE PROJECT, DECLARE THAT THE ABOVE LISTED FIRM OR INDIVIDUAL IS HIRED BY ME TO BE THE STRUCTURAL OBSERVER.

DECLARATION BY ARCHITECT OR ENGINEER OF RECORD
 I, THE ARCHITECT OR ENGINEER OF RECORD FOR THE PROJECT, DECLARE THAT THE ABOVE LISTED FIRM OR INDIVIDUAL IS DESIGNATED BY ME TO BE RESPONSIBLE FOR THE STRUCTURAL OBSERVATION.

BEST MANAGEMENT PRACTICE NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE CITY ORDINANCES FOR STORM WATER POLLUTION PREVENTION.
2. BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE IMPLEMENTED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT.
3. THE CONTRACTOR IS REQUIRED TO SUBMIT A CERTIFICATION STATEMENT TO THE CITY STATIN. THAT THE CONTRACTOR WILL COMPLY WITH THE MINIMUM CONSTRUCTION BMP (BEST MANAGEMENT PRACTICE) REQUIREMENTS.
4. EROSION AND SEDIMENT CONTROL: SEDIMENTS FOR AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE, USING STRUCTURAL DRAINAGE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCK PILES OF DIRT SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING AND WIND.
5. CONSTRUCTION MATERIALS CONTROL - CONSTRUCTION RELATED MATERIALS, WASTE SPILLS OR RESIDUES SHALL BE RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJOINING PROPERTIES BY WIND OR RUNOFF. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE UNLESS TREATED TO REMOVE SEDIMENTS AND POLLUTANTS.

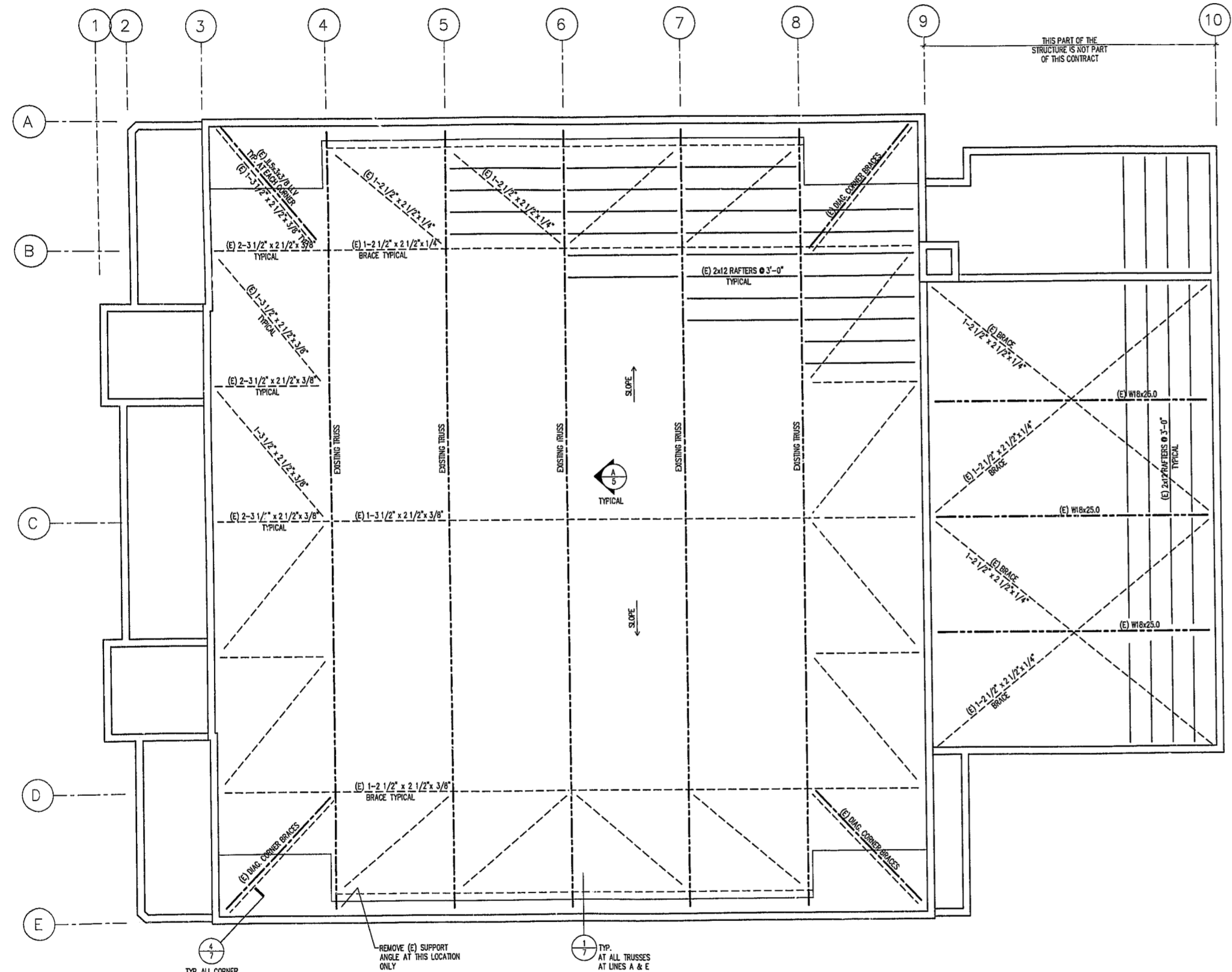
DU TO MINOR DIFFERENCE IN EXISTING CONDITIONS, ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION

M.R.H. STRUCTURAL ENGINEERS
 1411 N. BATAVIA ST., STE. 202
 ORANGE, CA 92667
 TEL. (714) 633-4817
 FAX (714) 633-4817

EL SEGUNDO PLUNGE
 219 W. MARIPOSA AVE.
 EL SEGUNDO CA. 90245

SPECIAL NOTES & TYPICAL DETAILS

F. PEREZ
MRH
3/1/2005
AS NOTED
04106
3



ROOF PLAN
SCALE: 1/8"=1'-0"

DUE TO MINOR DIFFERENCE IN EXISTING CONDITIONS, ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION

BRACING AND SHORING
CONTRACTOR SHALL ENGAGE THE SERVICES OF A CIVIL ENGINEER, LICENSED IN THE STATE OF CALIFORNIA TO DESIGN ALL BRACINGS, FORMING AND SHORING USED DURING CONSTRUCTION. THE STRUCTURAL ENGINEER OF RECORD SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH HIS DESIGN. ALL COSTS INVOLVED FOR SUCH SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.

SPECIAL NOTES

1. CONTRACTOR AND ALL SUB-CONTRACTORS SHALL OBTAIN FULL SETS AS-BUILT DRAWINGS.
2. CONTRACTOR AND SUB CONTRACTOR SHALL REVIEW ALL DRAWINGS, VISIT JOB SITE AND BE FAMILIAR WITH DESIGN INTENT.
3. SEE SHEET #3 FOR NOTES ON PROCEDURES TO INSPECT CORRODED TRUSSES, BRACES AND CONNECTIONS.
4. SEE SHEET #6 FOR THE DAMAGE REPAIR SCHEDULE FOR CORRODED MEMBERS AND CONNECTIONS.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR LOCATIONS OF REPAIR AND APPLICABLE DETAILS.
6. ALTERNATIVE REPAIR PROCEDURE AND DETAILS MAY BE PROPOSED BY THE CONTRACTOR SUBJECT TO REVIEW AND APPROVAL OF THE CITY OF EL SEGUNDO AND THE STRUCTURAL ENGINEER OF RECORD. ALL THE COST ASSOCIATED FOR REVIEW AND APPROVAL OF ALTERNATIVE DETAILS SHALL BE PAID FOR BY THE CONTRACTOR.

NOTES

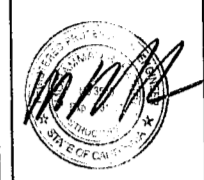
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. (E) - INDICATES EXISTING CONSTRUCTION.
3. (N) - INDICATES NEW CONSTRUCTION.
4. NEW BEAMS TO BE INSTALLED AND REINFORCING OF ALL EXISTING BEAM AND GIRDER SHALL BE DONE PRIOR TO CUTTING OF NEW OPENINGS.
5. DO NOT CUT EXISTING REINFORCING STEEL WHEN DRILLING HOLES FOR NEW EXPANSION ANCHORS OR NEW DOWELS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF CONSTRUCTION SPECIFIED IN DETAIL EACH STEP. PRIOR TO START OF WORK, GENERAL CONTRACTOR TO PROVIDE TEMPORARY SHORING AT NEW FRAMING PRIOR TO CUTTING AND REMOVING OF EXISTING MEMBERS. ERECT ALL NEW STEEL AND WELD AS REQUIRED BEFORE REMOVING EXISTING SLAB AT STAIR OPENING.
7. EXISTING STRUCTURAL NOTES:
 - A. CONTRACTOR SHALL VERIFY AND EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY ALTERATION AND OR REPAIR. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES SHOWN IN THE DRAWINGS. CONTRACTOR SHALL AGREE TO MAKE MODIFICATIONS TO FIT EXISTING CONDITIONS. WORK SHALL BE OUTLINED AND APPROVED BY THE STRUCTURAL ENGINEER.
 - B. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING TO KEEP EXISTING STRUCTURES IN A SAFE CONDITION DURING ALTERATIONS AND CONSTRUCTION AT ALL TIMES.
 - C. CONTRACTOR SHALL REPLACE ANY PART OF STRUCTURE DAMAGE AS A RESULT OF ALTERATION AND/OR REPAIR. WORK SHALL BE DONE IN A MANNER OUTLINED AND APPROVED BY THE STRUCTURAL ENGINEER.
 - D. CONTRACTOR SHALL PROTECT PARTS OR ALL STRUCTURES NOT INCLUDED IN ALTERATION AND OR REPAIR. ANY DAMAGE RESULTED DUE TO ALTERATION SHALL BE PREPARED AND/OR REPLACED TO THE ORIGINAL CONDITIONS AS APPROVED BY THE STRUCTURAL ENGINEER.
 - E. MOVE AND REPLACE ALL WORK REQUIRED FOR WORKING CLEARANCE.
 - F. CONTRACTOR AND SUB CONTRACTOR SHALL VISIT JOB SITE AND BE FAMILIAR WITH EXISTING CONDITIONS.

SPECIAL ROOF DRAIN NOTES

1. MRH STRUCTURAL ENG. IS NOT RESPONSIBLE TO INSPECT THE ROOF DRAINS, OVERFLOW AND DOWN PIPES.
2. MRH STRUCTURAL ENG. IS NOT RESPONSIBLE TO OBTAIN PROFESSIONAL EVALUATION OF THE ROOF DRAIN SYSTEM BY THE LICENSED ARCHITECT OR ENGINEER.

SPECIAL WATER PROOFING NOTES

1. CONTRACTOR IS RESPONSIBLE TO INSPECT THE ROOF AND PARAPET WEATHER PROOFING AND/OR WATER PROOFING SYSTEM OVER TRUSSES AND AT ROOF TO WALL INTERSECTIONS.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OF EXISTING ROOFING, WEATHER PROOFING AND WATER PROOFING.
3. CONTRACTOR IS RESPONSIBLE FOR WEATHER PROOFING AND WATER PROOFING OF ALL NEW PENETRATIONS INTO EXISTING ROOF AND WALLS.



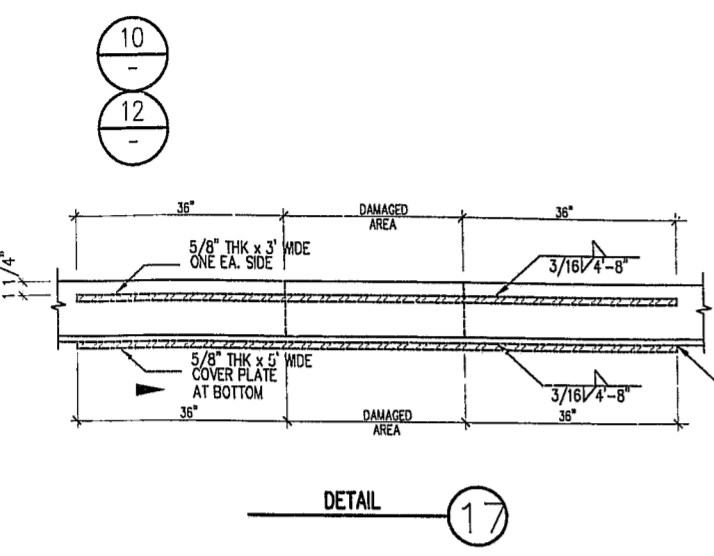
M.R.H. STRUCTURAL ENGINEERS
141 N. BATAVIA ST., STE. 202
FRANCO, CA 92667
TEL (714) 633-6302
FAX (714) 633-4817

EL SEGUNDO PLUNGE
219 W. MARIPOSA AVE.
EL SEGUNDO CA 90245

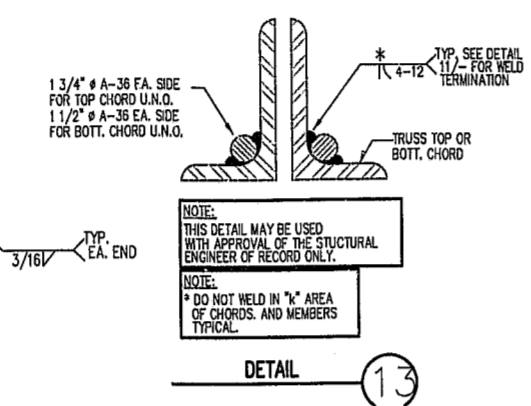
ROOF FRAMING PLAN

F. PEREZ
MRH
3/1/2005
AS NOTED
04106

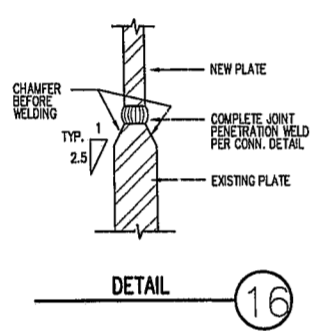
B0057-05 219 W. MARIPOSA AVE. CITY OF EL SEGUNDO 2 OF 2



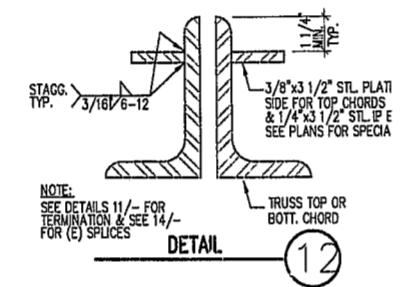
DETAIL 17



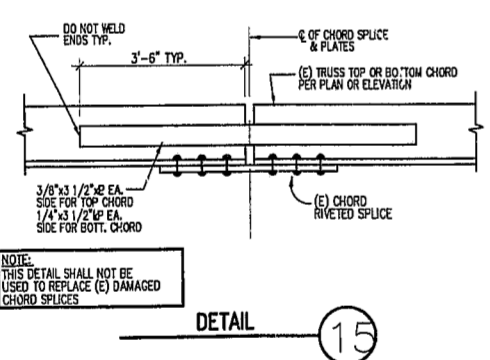
DETAIL 13



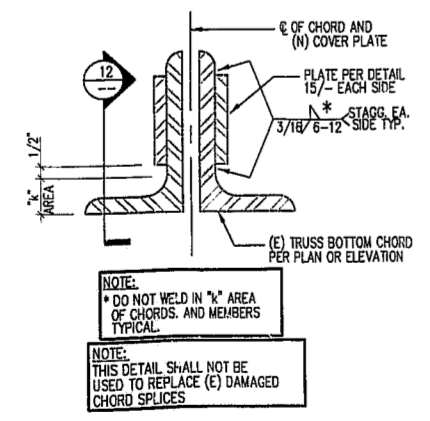
DETAIL 16



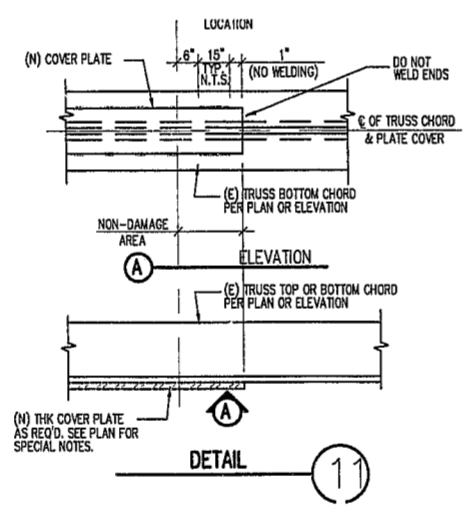
DETAIL 12



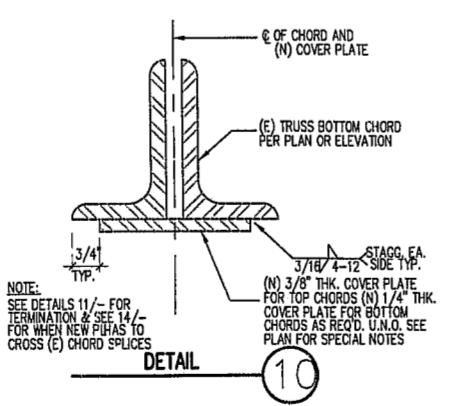
DETAIL 15



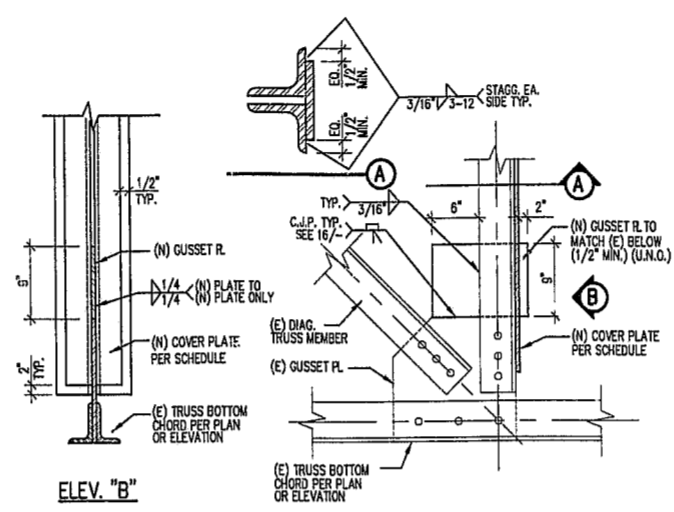
DETAIL 14



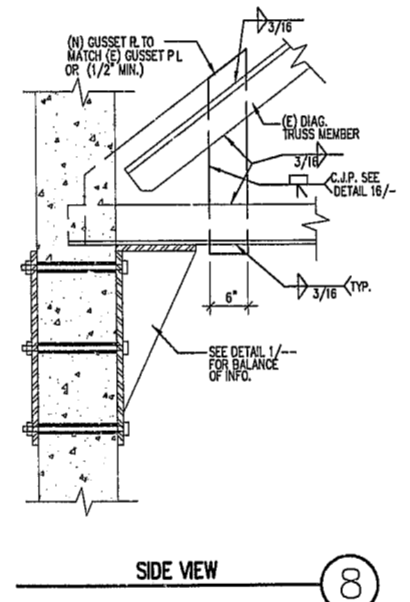
DETAIL 11



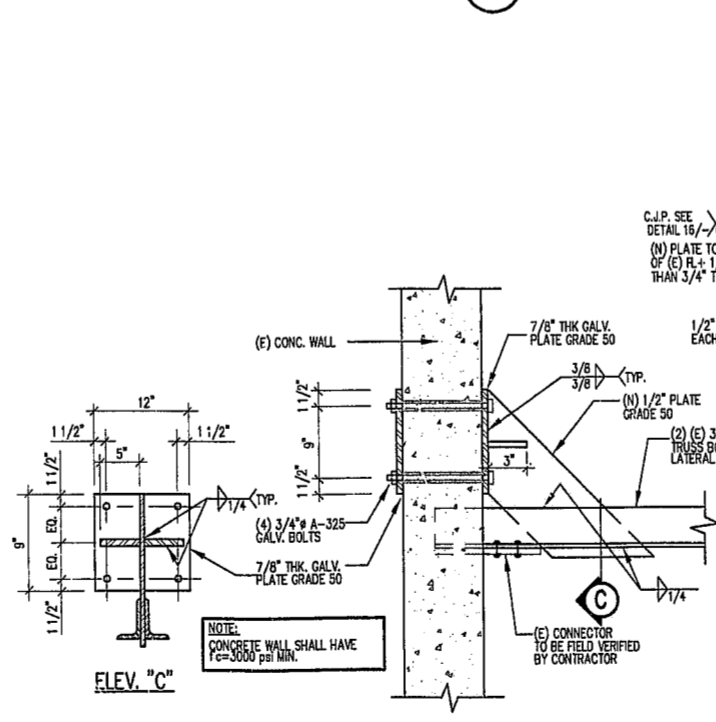
DETAIL 10



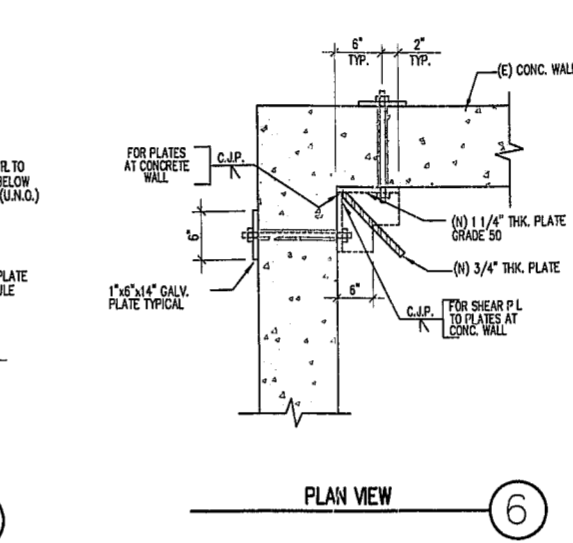
TRUSS CONNECTION 9



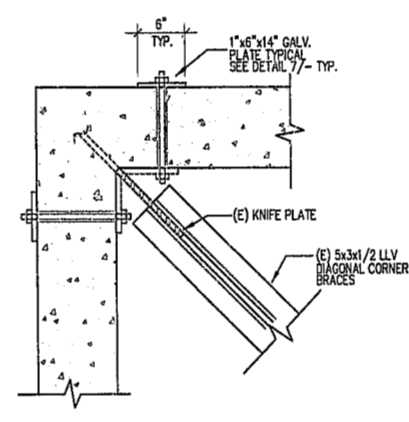
SIDE VIEW 8



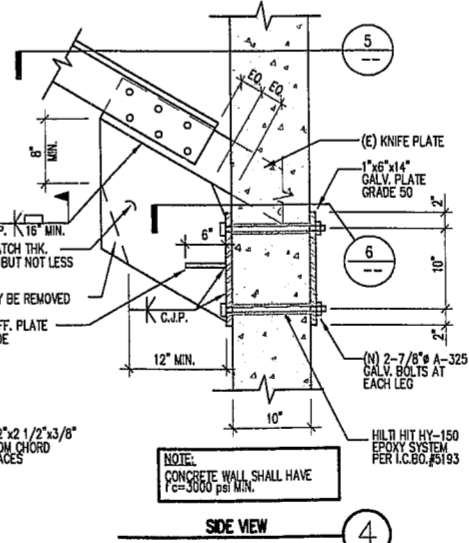
DETAIL 7



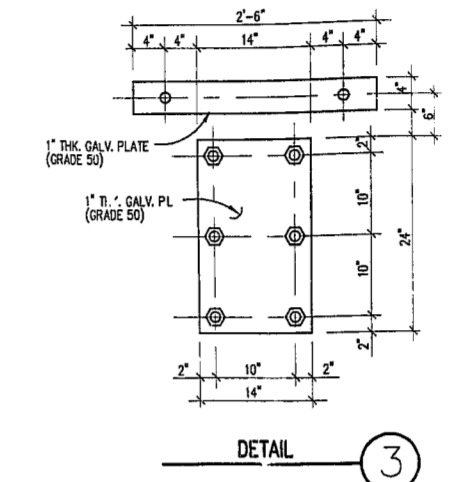
PLAN VIEW 6



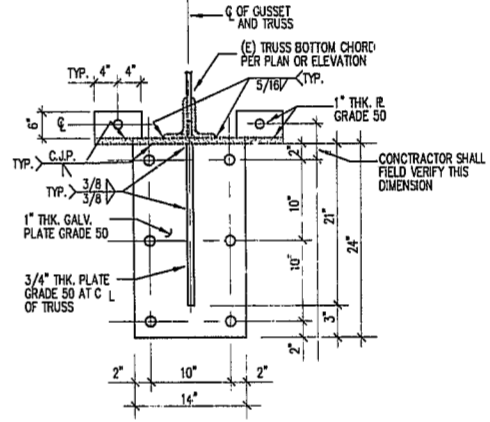
PLAN VIEW 5



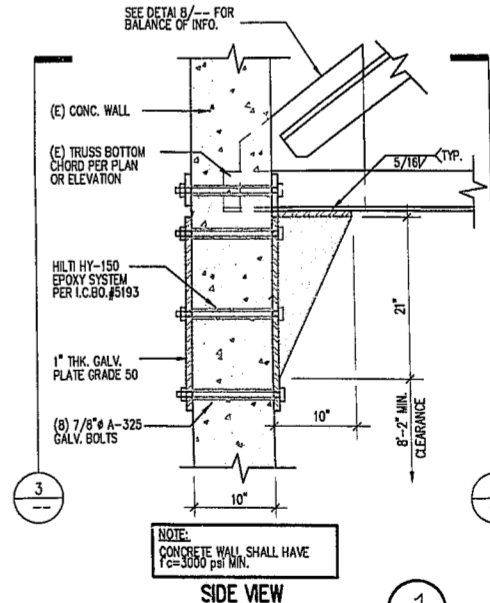
SIDE VIEW 4



DETAIL 3



DETAIL 2



SIDE VIEW 1

DUE TO MINOR DIFFERENCE IN EXISTING CONDITIONS, ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION

10	
12	



M.R.H. STRUCTURAL ENGINEERS
 1411 N. BATAVIA ST., STE. 202
 OCEANOGRAPHY, CA 92037
 TEL (714) 633-6302
 FAX (714) 633-4917

EL SEGUNDO PLUNGE
 219 W. MARIPOSA AVE.
 EL SEGUNDO CA. 90245

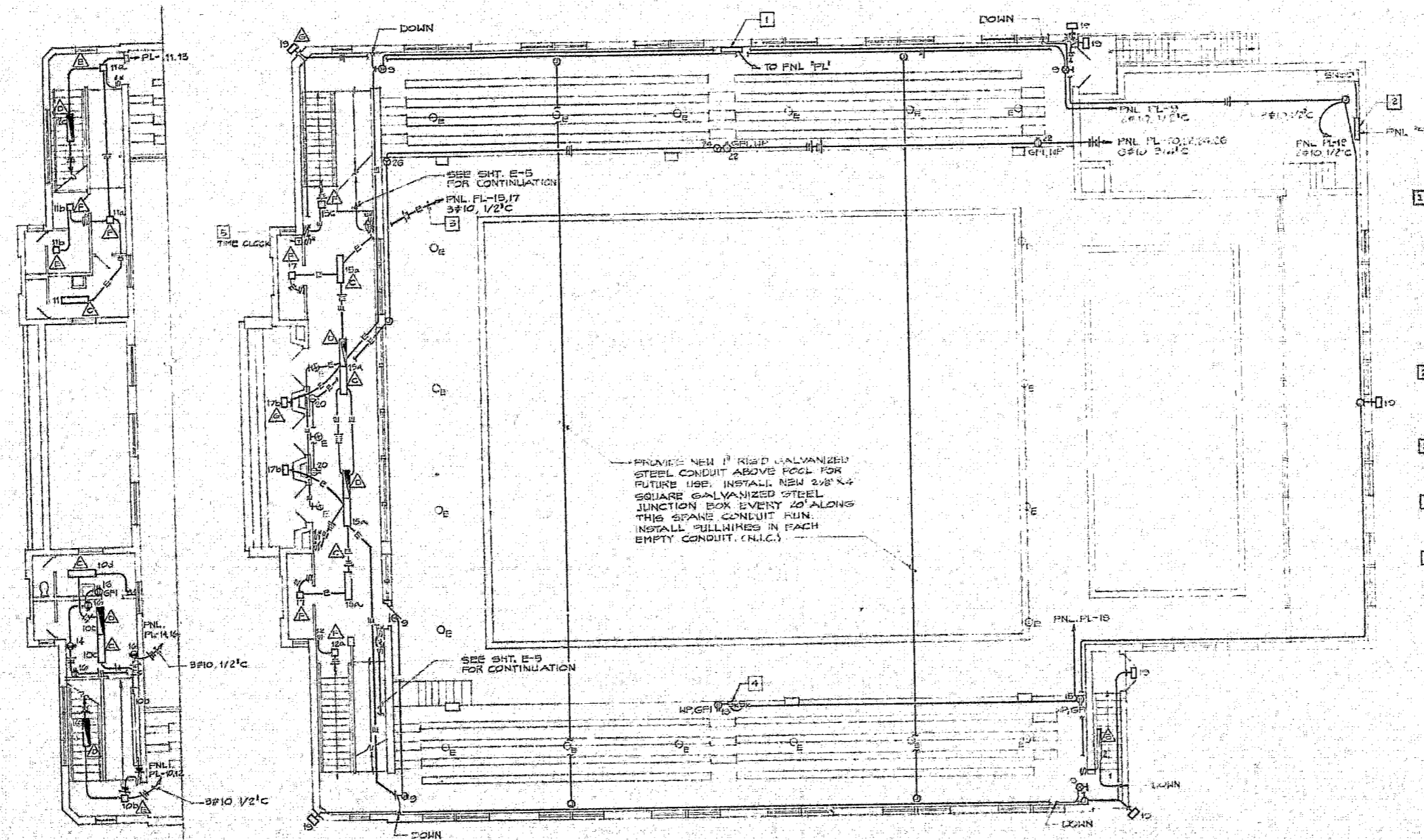
DETAILS

F. PEREZ
 MRH
 3/1/2005
 AS NOTED
 04106

7

SCALE

P/C E3-91 219 W. MARIPOSA AV. CITY OF EL SEGUNDO 1 of 2



NEW ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

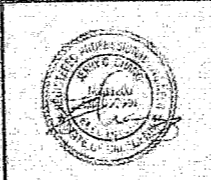
- NEW POWER**
1. PROVIDE NEW 2" SQUARE X 1/4" THICK DOWN + 10" ABOVE HANGING RAIL. INTERCEPT ALL EXISTING CIRCUITS FOR LIGHT FIXTURES AND OTHER HEAVY LOADS. RELOCATE AND RECONNECT AND EXTEND CIRCUITS TO NEW PANEL (P1) LOCATED INSIDE SOLAR ROOM VIA THIS RAIL. NEW CIRCUITS TO REMAIN. REPLACE CIRCUITS WITH NEW WIRING AND TERMINAL BLOCKS. PROVIDE NEW GROUNDING CIRCUITS TO NEW PANEL (P1) IN SOLAR ROOM VIA RAIL RUN ON TOP. INTERCEPT AND EXTEND EXISTING LIGHT CIRCUITS TO NEW PANEL (P1) IN SOLAR ROOM. PROVIDE NEW LIGHT CIRCUITS TO NEW PANEL (P1) IN SOLAR ROOM. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS. VERIFY WITH OWNER REPRESENTATIVE FOR LOCATION OF EXISTING TIME CLOCK, CONNECTORS AND WIRING.
 2. RELOCATE NEW PANEL (P1) WITH TWO NEW CIRCUIT BREAKERS EACH WITH 20 CIRCUITS AND CIRCUIT BREAKERS. INSTALL 200A MAIN CIRCUIT BREAKER AND PROVIDE NEW 3/4" COPPER GROUND BARS WITH 1/2" RIGID TO MAIN SWITCHBOARD IN SOLAR ROOM. DOUBLE END NEW PANEL AND FEED 2" 4/0 COPPER TRUNK TO 2ND PANEL.
 3. RUN NEW CIRCUITS OF LIGHT FIXTURES IN EXTENSION TOWER THROUGH EXISTING CONDUITS. INTERCEPT CONDUITS FOR THIS CIRCUITS ABOVE HANGING RAIL AND EXTEND CIRCUITS TO NEW PANEL (P1) IN SOLAR ROOM.
 4. PROVIDE NEW LOCK SWITCHES (SIMILAR TYPE) TO REPLACE EXISTING. ROUTE EXISTING CIRCUITS WITH NEW WIRING AND CONDUITS TO PANEL (P1) IN SOLAR ROOM. MAINTAIN EXISTING CIRCUIT CONTROL CONTINUITY IF REQUIRED.
 5. FURNISH AND INSTALL NEW TIME CLOCK (WITH AUTOMATIC DIAL) AND CIRCUITS OF EXISTING LIGHTS (P1) WITH CIRCUITS TO SWITCH FOR THIS CIRCUIT SHOULD NOT BE A BY-PASS OF ON-OFF CONTROL. PROVIDE A CIRCUIT-BREAKER FOR THIS LIGHT CONTROL AND LOCATE THIS CIRCUIT BREAKER NEAR POWER PANEL (P1) LOCATED SOLAR ROOM. PROVIDE ALL WIRING AND MAKE ALL NECESSARY CONNECTIONS.

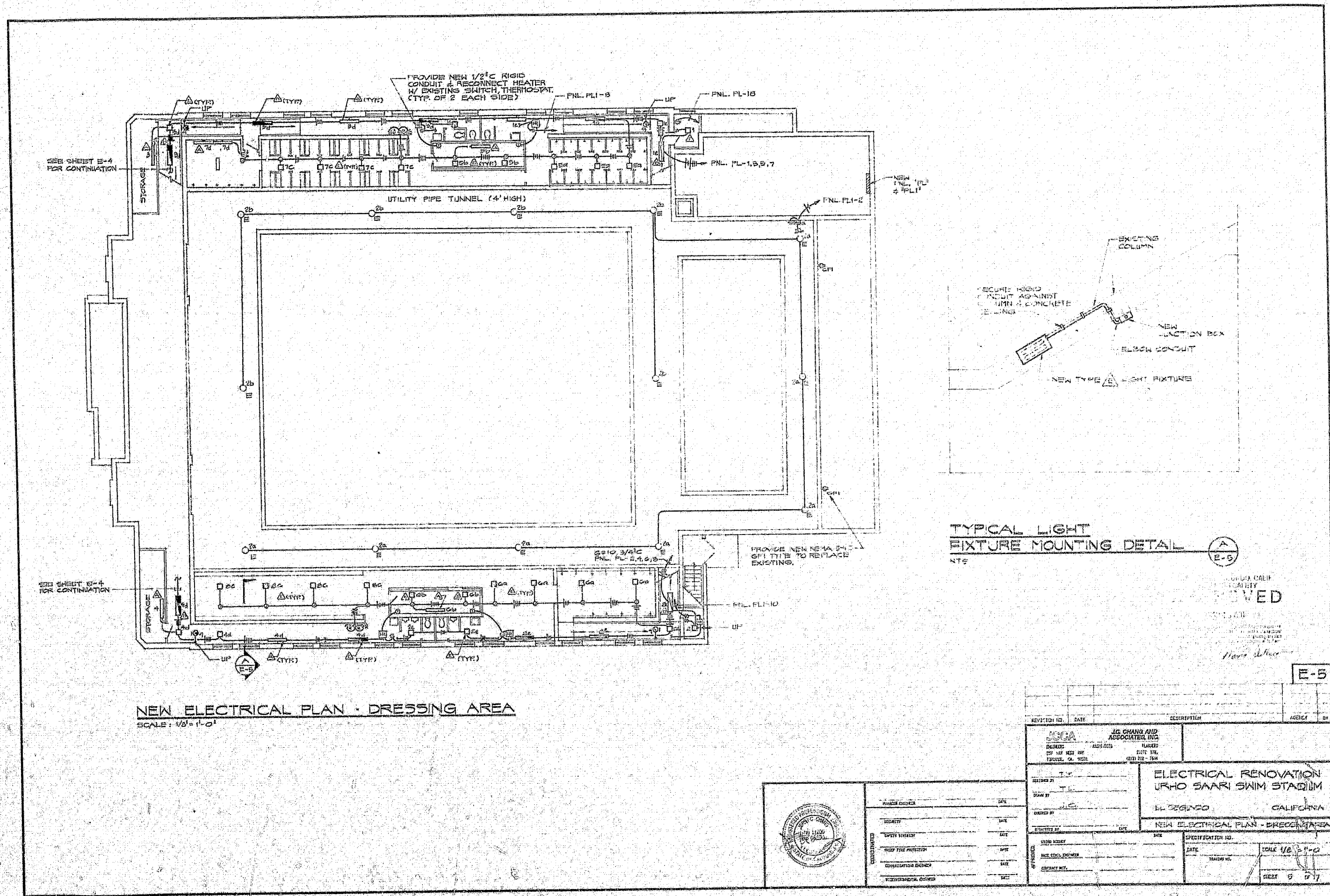
APPROVED
DATE: 11/15/67
BY: [Signature]

E-4

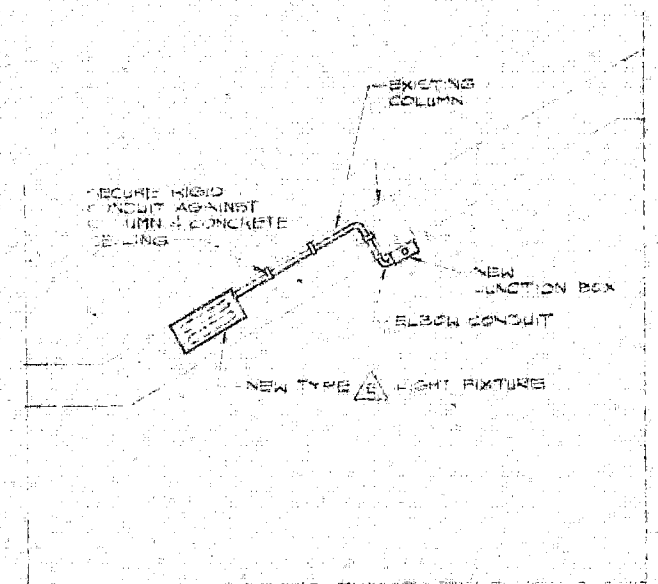
REVISION NO.	DATE	DESCRIPTION	BY	CHKD

JO CHANG AND ASSOCIATES, INC. ENGINEERS ARCHITECTS INTERIORS 2700 W. 10TH AVE. ANAHEIM, CALIF. 92804		ELECTRICAL RENOVATION URHO SAAR SWIM STADIUM EL SEGUNDO CALIFORNIA	
DRAWN BY: [Name] CHECKED BY: [Name] DATE: [Date]	PROJECT NO.: [Number] SHEET NO.: [Number]	SPECIFICATION NO.: [Number] SCALE: 1/8" = 1'-0" SHEET 4 OF 7	DATE: [Date]





NEW ELECTRICAL PLAN - DRESSING AREA
 SCALE: 1/8" = 1'-0"



TYPICAL LIGHT FIXTURE MOUNTING DETAIL
 NTE

APPROVED

David White

E-5



DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

REVISION NO.	DATE	DESCRIPTION	APPROVED BY

JG CHANG AND ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA NO. 12345	
PROJECT NO. DRAWING NO.	ELECTRICAL RENOVATION URHO SAARI SWIM STADIUM EL SEGUNDO CALIFORNIA
DESIGNED BY DRAWN BY CHECKED BY APPROVED BY	NEW ELECTRICAL PLAN - DRESSING AREA SCALE 1/8" = 1'-0" SHEET 5 OF 7

SPECIFICATIONS

SECTION 21-01

21-01.01 SCOPE OF WORK:

The work of this section includes the furnishing of all electrical materials, tools, equipment and apparatus for the complete installation of all electrical systems and equipment listed below and shown on the drawings, including but not limited to items of labor and material required for the proper operation and control of all such systems and devices.

A. Complete electrical system including, but not limited to, transmission, panelboards, switching equipment, circuit breakers, switches, receptacles, plug and wiper for power lighting.

B. All lighting fixtures and lamps, complete.

C. Cables, conduits and pull boxes, equipment, wiring and connections of all nature and equipment for all heating, ventilating and cooling equipment.

D. Wiring, adjusting and cleaning of the electrical work.

E. Disconnect switches, relays, devices, contacts, wire and connections, for the same, as required, etc., as required.

F. Cutouts, and patching of the building structure.

G. Provide and install all sleeves, hangers, supports, inserts, anchors, bolts, etc., required for the installation of electrical work.

H. Retain all ductwork or portable portions of the installation until completion of the work. Give instruction books, connection diagrams, etc., to the City Representative.

I. Clean construction debris from all electrical equipment.

1.02 GENERAL:

Work shall be executed in accordance with all applicable codes and ordinances adopted by the City of El Segundo, County of Los Angeles, and State of California in addition to the requirements of N.E.C., N.F.A., N.E.C., F.N. and State Fire Marshal.

1.03 LOCATION OF EQUIPMENT:

A. The location of equipment and equipment indicated on the drawings and specifications only, and shall be changed to meet the conditions of the site.

B. Location of equipment shall be as indicated on the drawings and specifications, and shall be changed to meet the conditions of the site.

C. The drawings are essentially diagrams to the extent that they show the location of equipment and equipment, and shall be changed to meet the conditions of the site.

1.04 CONDUITS:

A. Provide the following having installation, inspection, and dimensions for the following:

- Lighting fixtures
- Wiring devices
- Switches
- Emergency lighting

PART 2 - CONDUITS

2.01 CONDUITS:

A. All rigid conduit shall be steel. Steel conduit shall be hot-dipped galvanized. All conduit shall be standard straight or elbow. Elbow shall not be permitted.

B. All rigid conduit terminations shall be provided with caps and locknuts. It is to be expanded to weather-tight and shall be suitable for dry, wet, and other conditions.

C. Flexible steel conduit may be used in runs from adjacent machine rooms to recessed lighting fixtures, and in locations where, for structural or other reasons, it is impractical to use steel tube, and then only where specific permission is given by the City Representative.

specification shall be 6 E.C. Flexible conduit shall be used with "J" type conduit fittings and fittings.

D. Flexible liquid-tight steel conduit and fittings manufactured from single strip steel galvanized on all four sides prior to extrusion fabrication with an extruded polypropylene coating and a liquid-tight fitting that provides positive ground continuity including ground conductor.

E. Surface raceway shall be aluminum or equal as specified on drawings.

2.02 CABLES:

A. Cables shall be installed in a raceway or shall be protected by conduit. Raceway shall be of the knockout type, and the size and type shall be suitable for the cable used. All unused openings in the raceway shall be closed with factory made, knockout caps.

B. Flexible conduit shall not be less than four (4) inches diameter or equivalent, by 1/2" x 1/2" clamp. Flexible conduit in conduits shall be of the four (4) inch diameter concrete type, and shall have the finished surface.

C. Switch, receptacles, and other wiring devices shall be installed with the plaster finish work suitable for their use. Receptacles shall be 15/16" diameter and 2 1/2" deep, and shall be fitted with a raised contact for a single device. Receptacles shall be installed by the contractor shall be equipped with knock covers. All wiring shall be secured to rigid conductors with knock-out nuts and washers.

D. Wire locations: Deep cast steel, threaded hubs, gasketed covers.

2.03 WIRE AND WIRE SIZES:

A. General: Conductors shall be delivered to the site in unbroken packages, plainly marked with the manufacturer's name, size of conductor, voltage and classification letters shall be stamped and approved before being used.

B. Conductors:

- Conductors for power and lighting shall be copper, with 600 volt rated insulation type "RHH" or "RHW".
- Wire or cable shall be in conduit or pull boxes shall be a size of 1/2" with a low radius. Wires for 600 volt cable shall have a radius of not less than eight (8) times the diameter of the cable.
- No conductor for power and lighting shall be smaller than No. 10 AWG. No. 10 and may be used for control wiring except where otherwise shown.
- From junction boxes to recessed fixtures type "RHH", 90 degree C. General purpose wire shall be used.
- Wiring through fluorescent fixtures in continuous runs shall be type "RHH", 90 degree C. General purpose wire.
- The insulation of all conductors shall be color coded throughout the length of the circuit as follows:

(1) 120/240, Single phase 3W: Phase A - Black	P - Red
Phase B - White	Neutral - White
(2) 3-phase split phase: Switch legs to same color as phase.	

C. No. 10 AWG and smaller shall be solid copper.

D. No. 8 AWG and larger shall be stranded copper.

E. Signal and control cables shall be stranded.

F. Conductors to be installed in holes or reasonable panel covers shall be stranded.

2.04 WIRING DEVICES:

A. General: Color shall be coordinated with architect.

B. Wall switches shall be fully enclosed, quiet type rocker switches rated in amperes, 120 volts, incandescent or composition.

C. Quiet lock switches 20 amperes, may be used in quiet locations at full rating for inductive or non-inductive loads and incandescent or fluorescent lighting loads.

D. Quiet lock switches, Leviton No. 111-L, Bryant No. 401-1, and No. 111-L, Arrow No. 101-1, or equal for single pole.

E. Convenience and ground fault interrupter receptacles shall be mounted in accordance with the following:

- All 3-wire duplex receptacles mounted at 18" above the floor shall be installed vertically with the grounding terminal on the left.

2. All 3-wire duplex receptacles mounted more than 18" above the floor shall be installed horizontally with the grounding terminal on the left.

B. Weather proof enclosures shall be installed as indicated on drawings.

C. Duplex receptacles shall be NEMA-15, specification grade Leviton No. 3262-0 or equal non-compatibility output.

D. Ground fault interrupter receptacles shall be NEMA-15, specification grade Leviton No. 6391-100 or equal with weather proof cover.

2.05 LIGHTING FIXTURES:

A. All lighting, communication, television, and signal outlets, except as otherwise noted or specified, shall be covered with covers, shields or equal plates. Type and finish to be coordinated with architect.

2.06 DIMMING AND WARNING SIGNS:

A. Manufacturer's nameplate including equipment design rating of current, voltage, VA, Hz, and dimming rating, or as applicable.

B. Equipment nameplates designating cycle drops and purpose shall include voltage, equipment rating for VA, amperes, Hz and Hz as applicable, designation data per drawings or to be supplied with shop drawings covering:

- Manufacturer nameplate showing panel designation, voltage and phase, course of supply and area number of service.
- Manufacturer's nameplate showing device usage, circuit number, manufacturer's and electrical characteristics ratings on the following:
 - Circuit breakers: Voltage, continuous current, maximum interrupting current and trip current.
 - Switches: Voltage, continuous current, horsepower or maximum current switching, IP rating, enclosure nameplate rating. Fuses must be replaced with current limiting type of identical characteristics.
 - Control relays: Voltage, continuous current, horsepower or interrupting current, and whether mechanically held or electrically held.
 - Motors: Rated voltage, full load amperes, frequency, phase, speed, horsepower, code letter, winding, winding type of winding, class and temperature.
 - Control relays: Voltage, current, horsepower and trip setting or motor running overcurrent protection.
- Equipment nameplate material shall be engraved, embossed, plastic or mica type with white letters on a dark background. The background shall be red and include the word "WARNING". Letters shall be 3/16" high for devices and minimum 1/8" high for equipment and enclosures. Characters are not acceptable. All plates for receptacles or emergency circuits shall be engraved. "STOP" shall be in black filled letters.
- Nameplates shall be mounted by self-tapping threaded covers and bolts, or by rivets.
- Signs shall be permanently mounted with suitable plated steel screws or nickel-plated brass bolts.

2.07 GROUND TERMINALS:

Fixtures shall be approved manufactured type, installed and connected to conform to code requirements.

2.08 LIGHTING FIXTURES:

A. All fixtures shall be complete with all lamps, fittings and accessories, wiring and connections necessary for safe correct operation control. All labels shall be correctly positioned for even brightness of the diffuser or lens and shall be free from blurring. All drawings shall be complete with all parts as indicated in fixture schedule or equal, and shall be suitable for use in wet or damp locations.

B. Lamp: Rapid start fluorescent lamps for type RFL, RFL, RFL shall be General Electric, Westinghouse, or equal, 2W, 4-pin type.

C. High pressure sodium lamps for type HPS shall be 70W, sodium base as indicated.

D. Ballasts: Ballasts shall be free from any combustible material under normal operating conditions. They shall be of the enclosed type, and shall have high power factor correction.

to 500 or better. Each ballast shall incorporate a U.S. Standard Class 500 and 1000 (capacitor) ballast (incandescent). Each ballast shall incorporate a U.S. Standard Class 500 and 1000 (capacitor) ballast (incandescent). Each ballast shall incorporate a U.S. Standard Class 500 and 1000 (capacitor) ballast (incandescent). Each ballast shall incorporate a U.S. Standard Class 500 and 1000 (capacitor) ballast (incandescent).

1. Ballast for type R, D, C, D fixtures shall be General Electric "Mini-Riser" or Universal "Mini-Riser" or equal, energy saving type.

2. Ballast for type R, D, C, D fixtures shall be high pressure sodium ballast with no starter, 20-250W.

3. Ballast for type R, D, C, D fixtures shall be high pressure sodium ballast with no starter, 20-250W.

4. All special fixtures and lamps shall be similar or equal to those shown in the fixture descriptions on drawings.

5. All fixtures shall be standard products on the fixture manufacturer's list, be UL listed, approved and bear their label, and be clean in present condition when installed.

6. Pictures or cuts of all lighting fixtures, with distribution curves and complete photometric data, shall be submitted.

2.09 SPECIAL EQUIPMENT:

Contractor shall provide all junction boxes, conduits, conductors, control cabinets, etc., as required to completely install all other electrical equipment.

2.10 CONDUIT AND EQUIPMENT:

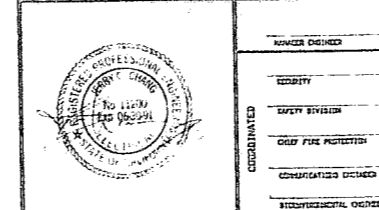
All conduits shall be manufacturer's standard per ASTM A-536 unless otherwise noted.

PART 3 - EXECUTION

3.01 GENERAL:

A. All material and equipment shall be installed in accordance with the manufacturer's recommendations and shall be done so uniformly throughout to a uniform level greater than that specified in the approved specs.

B. Installation shall conform to approved standards.



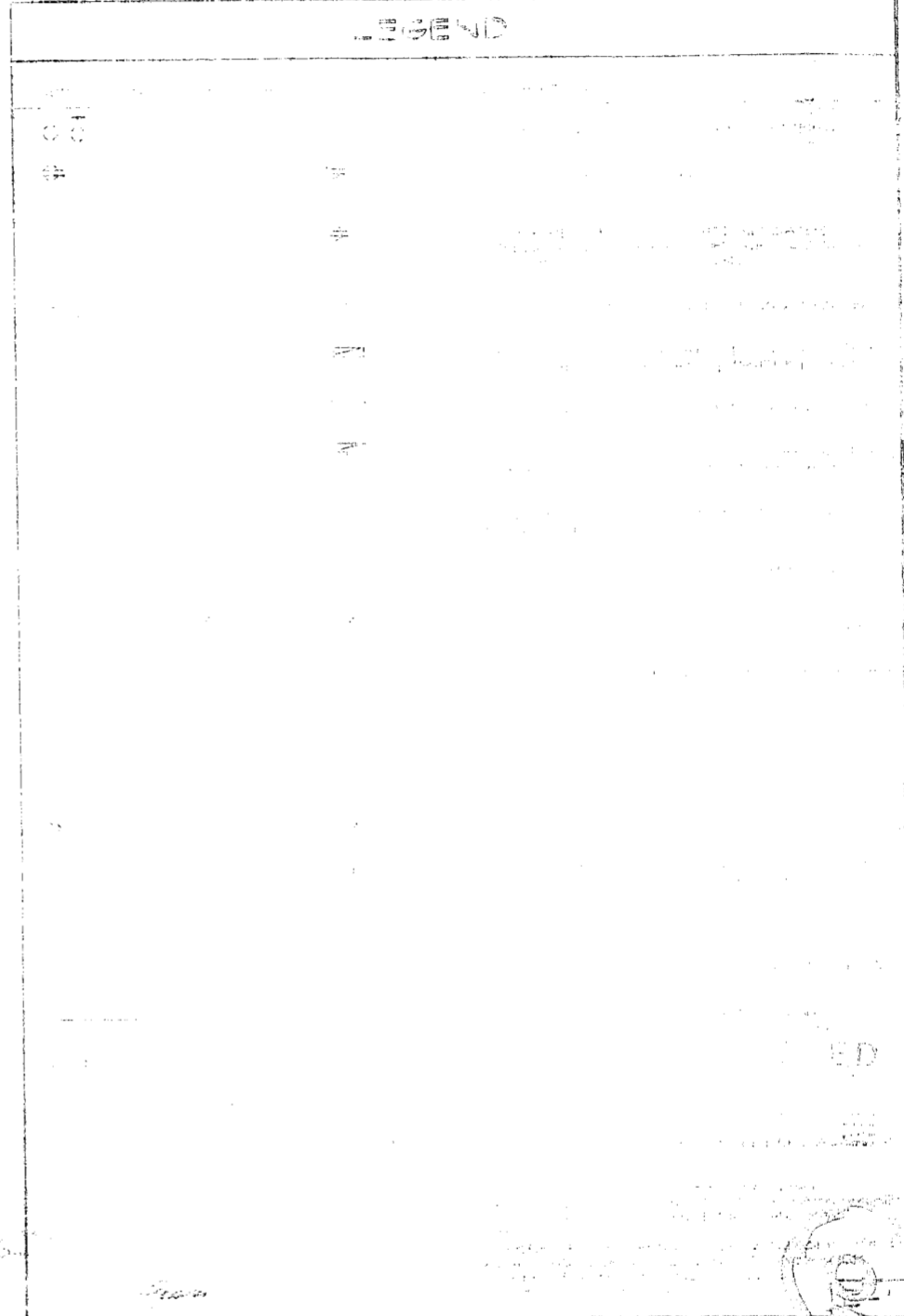
PROJECT NO. _____ DATE _____		PROJECT NAME:	
DRAWN BY:		PROJECT NO.:	
CHECKED BY:		PROJECT NAME:	
DATE:		PROJECT NO.:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME:	
PROJECT NAME:		PROJECT NO.:	
PROJECT NO.:		PROJECT NAME	

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER & CATALOG NO.	LAMPS		VOLT	MOUNTING	REMARKS
		NO.	WATTS			
△	4' TAMPER PROOF FLUORESCENT FIXTURE, KENALL 7170	1	84	F40T12	NALL	ENERGY SAVING BALLAST & LAMPS
△	4' TAMPER PROOF FLUORESCENT FIXTURE w/EMERGENCY BATT PACK, KENALL 7170-BL	1	84	F40T12	NALL	7 STAIR
△	1x4' TAMPER PROOF FLUORESCENT FIXTURE, KENALL 7270	2	84	F40T12	SURFACE	
△	1x4' TAMPER PROOF FLUORESCENT FIXTURE w/EMERGENCY BATT PACK, KENALL 7270-BL	2	84	F40T12	SURFACE	
△	1x4' TAMPER PROOF FLUORESCENT FIXTURE, KENALL 4435-HPF	2	22	PC413	SURFACE	
△	1x4' TAMPER PROOF FLUORESCENT FIXTURE, KENALL 4435-HPF-2 800mA	1	22	PC413	SURFACE	AVAILABLE FOR SURFACE MOUNT
△	WALL MOUNTED 48" FIXTURE, KENALL 5070-HPF	1	40	40W	NALL	

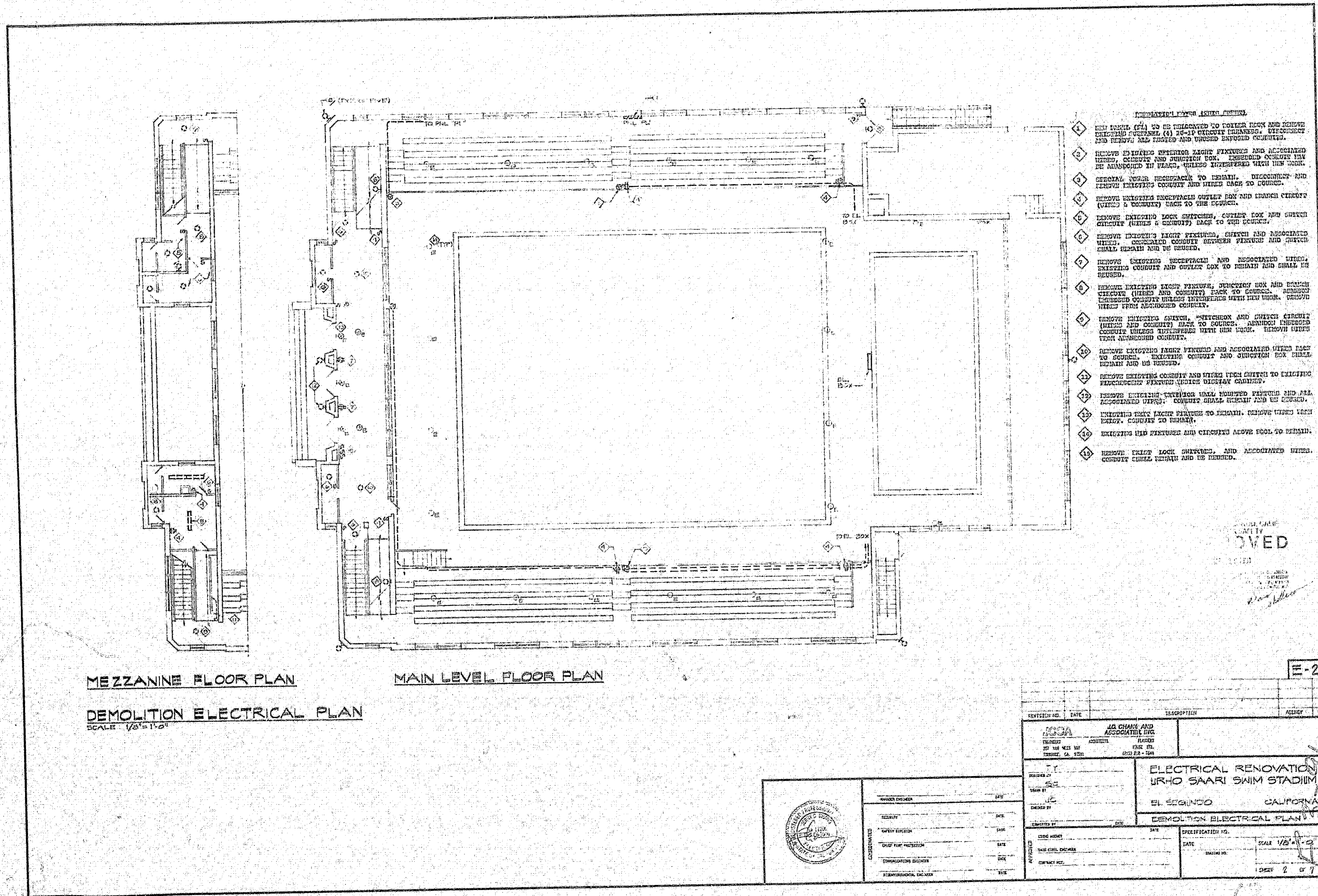
GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH 2008 EDITION OF THE NATIONAL ELECTRICAL CODE, 2008 EDITION OF THE IBC AND 2008 EDITION OF THE NATIONAL ELECTRICAL CODE.
- ALL WORK SHALL BE IN THE SHED CODE CONVEY.
- IF THERE IS ANY CONFLICTING INFORMATION TO INTERPRET THE DRAWING CONDITIONS AT THE JOB SITE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNLESS THE ARCHITECT HAS PROVIDED WRITTEN CLARIFICATION OR CORRECTION TO THE DRAWING OR THE EL SECONDARY REPRESENTATIVE.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, EXPENSES, INDEMNITY, PERFORMANCE, GUARANTEE FACILITIES AND OTHER NECESSARY ITEMS AS REQUIRED TO COMPLETE THE WORK DEFINED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION FOR ALL OF THE OPERATIONS. THE CONTRACTOR SHALL HAVE THE NECESSARY PERSONNEL, EXPERIENCE AND SKILLS TO CONDUCT AND REQUIRED ACTIVITIES IN ACCORDANCE WITH THESE NOTES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, AND OTHER FACILITIES IN THE AREA OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES FOR A SAFE CONSTRUCTION OPERATION. CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES, STRUCTURES, AND PERSONNEL IN THE AREA OF CONSTRUCTION.
- CONTRACTOR SHALL DAMAGE AND REMOVE ANY MATERIALS IN THE CITY JURISDICTION AND REMOVE SUCH MATERIAL TO DESIGNATED STORAGE AREA.
- ALL NEW CONSTRUCTION SHALL HAVE EXISTING ARRANGERS CANCELLED UNLESS NOTED OTHERWISE. ALL EXISTING CONSTRUCTION SHALL BE REPEATED BY THE CONTRACTOR SHALL BE REPEATED TO MATCH EXISTING IN CONFORMANCE WITH THE CITY CODES.
- CONTRACTOR SHALL PATCH AND REPAIR ALL OPENINGS IN WALLS REQUIRING PATCH REPAIR AND INSTALLATION OF NEW EQUIPMENT OR PATCHED WALLS TO MATCH EXISTING FINISHES.
- CEILING AND/OR REPLACEMENT CEILING SHALL BE REPEATED.
- PROVIDE WITH INTERLOCKER AS REQUIRED BY THE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION.
- UNDESIRABLE USE OF DEFECTIVES WILL NOT BE PERMITTED.
- ANY ITEMS PERTAINING TO ENVIRONMENTAL ISSUES OR HAZARDOUS MATERIALS SHALL BE REPORTED IMMEDIATELY TO THE EL SECONDO CITY REPRESENTATIVE AND CONTRACTOR SHALL RECEIVE WRITTEN DIRECTION FROM THE CITY REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK IN SUCH AREAS.
- GRADE OPERATIONS AND NOTIFY THE EL SECONDO CITY REPRESENTATIVE IMMEDIATELY IN WRITING OF ANY OPERATIONS TO BE UNDERTAKEN THAT MAY BE NEARBY TO EXISTING UTILITIES, STRUCTURES, OR OTHER FACILITIES IN THE AREA OF CONSTRUCTION.
- UPON COMPLETION OF THE WORK, REMOVE TOOLS, EQUIPMENT AND MATERIALS FROM SITE. REMOVE PROTECTIVE MEASURES NO LONGER NEEDED AND LEAVE WORK AREA CLEAN AND ORDERLY.
- THE DRAWING INDICATES, IN A DIAGNOSTIC MANNER, THE PROPOSED LOCATION AND ARRANGEMENT OF THE COMPONENTS OF THE ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT SIZES, AND NECESSARY PROTECTIVE DEVICES, SUPPORTS, AND NECESSARY CONSTRUCTION DETAILS, AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- CONDUIT AND PATCHING TO EXISTING CONSTRUCTION IS REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS EXISTING AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- WHILE INSTALLED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ELECTRICAL WORK, AND THIS REQUIRED FOR INFORMATION OF THE ELECTRICAL WORK. WORK SHALL BE SUBJECT TO INSPECTION OR VISUAL INSPECTION OF APPROVED BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.

LEGEND



LOCATION		WATTAGE		WATTAGE		WATTAGE	
NO.	DESCRIPTION	SA	SC	SA	SC	SA	SC
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
121							
122							
123							
124							
125							
126							
127							
128							
129							
130							
131							
132							
133							
134							
135							
136							
137							
138							
139							
140							
141							
142							
143							
144							
145							
146							
147							
148							
149							
150							
151							
152							
153							
154							
155							
156							
157							
158							
159							
160							
161							
162							
163							
164							
165							
166							
167							
168							
169							
170							
171							
172							
173							
174							
175							
176							
177							
178							
179							
180							
181							
182							
183							
184							
185							
186							
187							
188							
189							
190							
191							
192							
193							
194							
195							
196							
197							
198							
199							
200							
201							
202							
203							
204							
205							
206							
207							
208							
209							
210							
211							
212							
213							
214							
215							
216							
217							
218							
219							
220							
221							
222							
223							
224							
225							
226							
227							
228							
229							
230							
231							
232							
233							
234							
235							
236							
237							
238							
239							
240							
241							
242							
243							
244							
245							
246							
247							
248							
249							
250							
251							
252							
2							

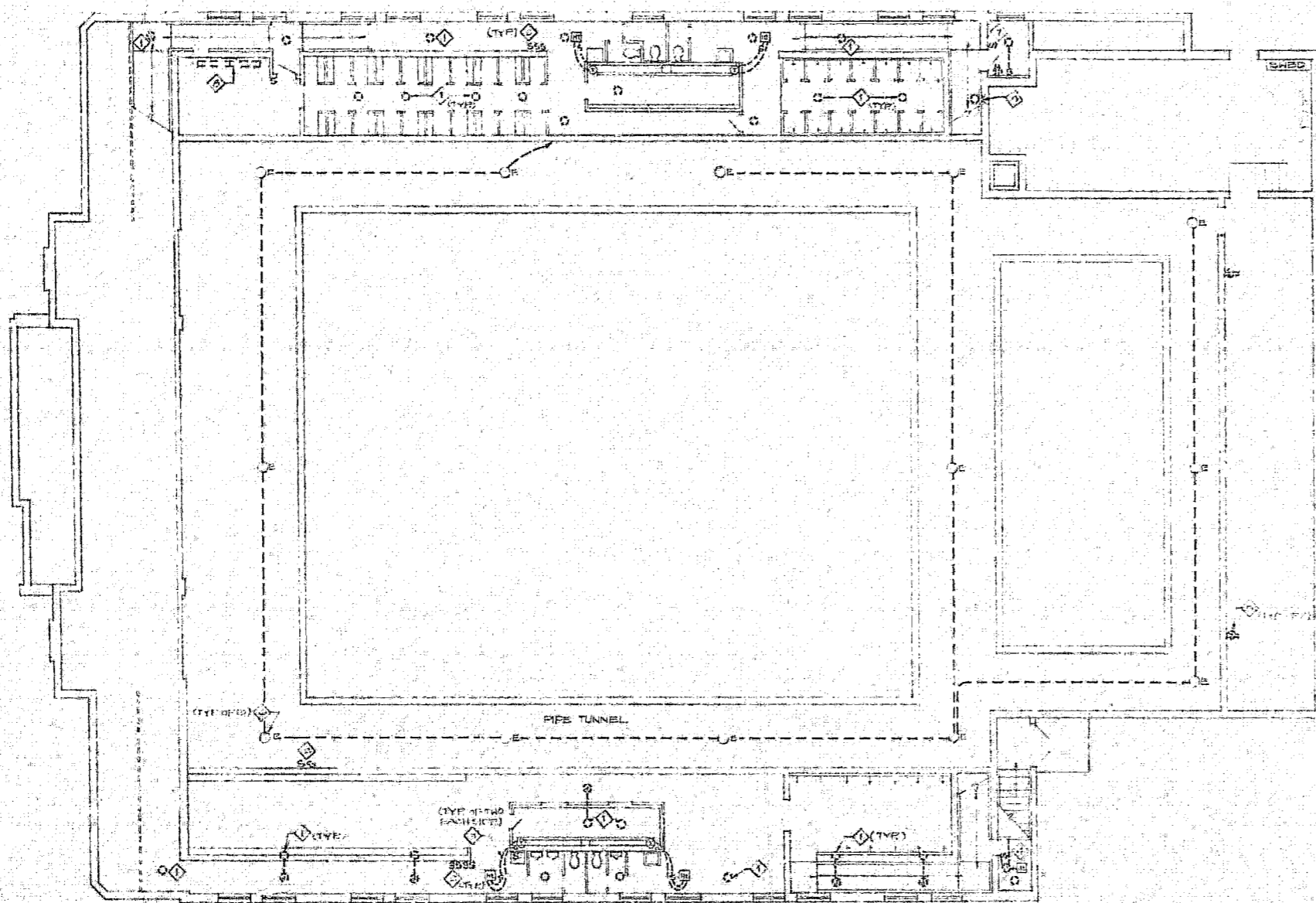


- REMOVE ALL EXISTING ELECTRICAL FIXTURES AND ASSOCIATED WIRING, CONDUIT AND JUNCTION BOX. EXISTING CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS INDICATED OTHERWISE WITH NEW WORK.
- REMOVE EXISTING RECEPTACLE TO REMAIN. RECEPTACLE AND EXISTING CIRCUITRY SHALL BE REMOVED TO SOURCE.
- REMOVE EXISTING RECEPTACLE OUTLET BOX AND BRANCH CIRCUITRY (WIRING & CONDUIT) BACK TO THE SOURCE.
- REMOVE EXISTING LOCK SWITCHES, CIRCUIT BOX AND SWITCH CIRCUITRY (WIRING & CONDUIT) BACK TO THE SOURCE.
- REMOVE EXISTING LIGHT FIXTURES, SWITCH AND ASSOCIATED WIRING. EXISTING CONDUIT BETWEEN FIXTURES AND SWITCH SHALL REMAIN AND BE REUSED.
- REMOVE EXISTING RECEPTACLE AND ASSOCIATED WIRING. EXISTING CONDUIT AND CIRCUITRY SHALL REMAIN AND SHALL BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES, SWITCH BOX AND BRANCH CIRCUITRY (WIRING AND CONDUIT) BACK TO SOURCE. EXISTING CONDUIT SHALL REMAIN AND BE REUSED.
- REMOVE EXISTING SWITCH, SWITCHBOX AND SWITCH CIRCUITRY (WIRING AND CONDUIT) BACK TO SOURCE. EXISTING CONDUIT SHALL REMAIN AND BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES AND ASSOCIATED WIRING BACK TO SOURCE. EXISTING CONDUIT AND JUNCTION BOX SHALL REMAIN AND BE REUSED.
- REMOVE EXISTING CONDUIT AND WIRING FROM CHUTE TO EXISTING RECEPTACLE FIXTURES (UNDER DISHWASH CABINETS).
- REMOVE EXISTING EXHAUST FAN MOUNTED FIXTURES AND ALL ASSOCIATED WIRING. CONDUIT SHALL REMAIN AND BE REUSED.
- EXISTING FAN LIGHT FIXTURES TO REMAIN. REMOVE WIRING FROM EXIST. CONDUIT TO REMAIN.
- EXISTING FAN FIXTURES AND CIRCUITS ABOVE POOL TO REMAIN.
- REMOVE EXIST LOCK SWITCHES AND ASSOCIATED WIRING. CONDUIT SHALL REMAIN AND BE REUSED.

MEZZANINE FLOOR PLAN
 MAIN LEVEL FLOOR PLAN
 DEMOLITION ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"

E-2

REVISION NO.	DATE	DESCRIPTION	APPROVED BY
MOCA 1000 CHASE AND ASSOCIATED, INC. 20 1/2 W 10th ST TORRANCE, CA 90501		ELECTRICAL RENOVATION URHO SAARI SWIM STADIUM EL SEGUNDO CALIFORNIA DEMOLITION ELECTRICAL PLAN	
DESIGNED BY	DATE	PROJECT NO.	SCALE 1/8" = 1'-0"
CONTRACT NO.	DATE	PROJECT NO.	



- DEMOLITION NOTES (SEE SHEET)**
- 1. REMOVE EXISTING LIGHT FIXTURES AND ALL ASSOCIATED WIRES, JUNCTION BOXES AND CONDUIT BACK TO THE SOURCE (PANEL VIA). EXISTING CONDUIT MAY BE REUSED UNLESS INDICATED WITH NEW WORK.
 - 2. REMOVE EXISTING SWITCHES AND ALL ASSOCIATED WIRES AND CONDUIT. BACK TO (SOURCE).
 - 3. REMOVE EXISTING TWO 1/2" FLEXIBLE CONDUIT PER POWER AND GROUND FROM SERVICE. REPOSITION AND LOCATE ASSOCIATED WIRE TRAYS OR TRAYS. REMOVE CONDUIT FOR WIRE AND RUN WIRE BACK TO THE SOURCE, AROUND EMBEDDED CONDUIT UNLESS INDICATED WITH NEW WORK.
 - 4. REMOVE EXISTING LIGHT SWITCHES, SWITCHES AND ALL ASSOCIATED WIRES, CONDUIT AND TRAYING WIRE. RELOCATE TO REMAIN.
 - 5. REMOVE EXISTING GROUND BONDING SYSTEMS, EXISTING CIRCUITS TO BE REUSED.
 - 6. EXISTING INCANDESCENT FIXTURES WHICH USE GLOBE TO REMAIN. REMOVE ALL CONDUIT AND WIRES ASSOCIATED WITH THE FIXTURES BACK TO SOURCE.
 - 7. REMOVE EXISTING LIGHT FIXTURES, SWITCHES, TRAYS AND ASSOCIATED CONDUIT, WIRE, CONDUIT AND WIRES.
 - 8. REMOVE EXISTING WALL MOUNTED INCANDESCENT FIXTURES ABOVE SILLING. REMOVE WIRES BACK TO SOURCE AND REPOSITION CONDUIT IN PLACE.
 - 9. REMOVE EXISTING WALL MOUNTED FIXTURES AND ALL ASSOCIATED WIRES.

DEMOLITION ELECTRICAL PLAN - DRESSING AREA
 SCALE: 1/8" = 1'-0"

ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF EL SEGUNDO SPECIFICATIONS.

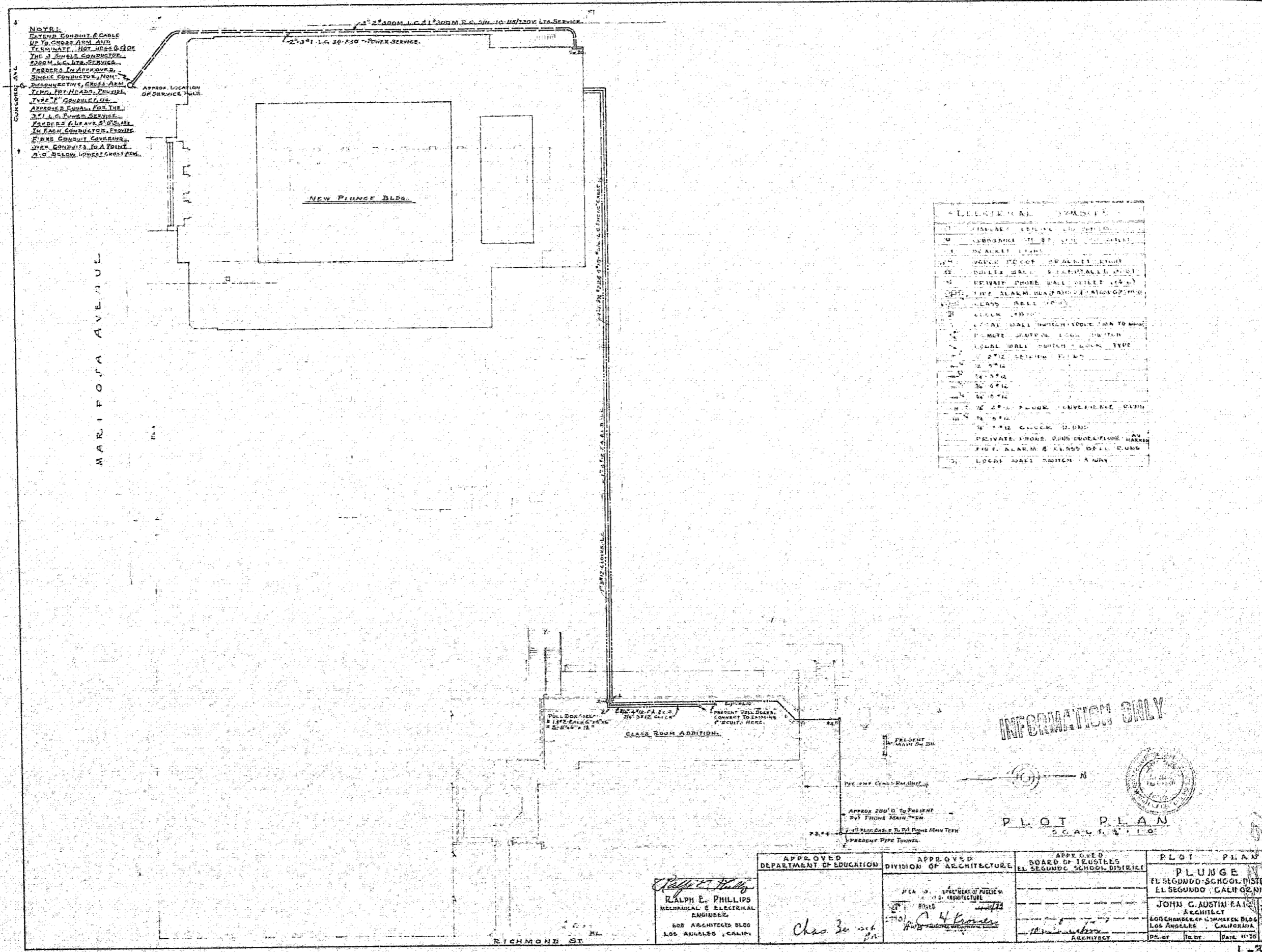
E-3



PROJECT NO.	DATE
ISSUED FOR	DATE
REVISIONS	DATE
BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

REVISION NO.	DATE	DESCRIPTION	SCALE
PROJECT NO. _____ DATE _____		PROJECT NAME _____ PROJECT ADDRESS _____ PROJECT CITY _____ PROJECT STATE _____	
DRAWN BY _____ CHECKED BY _____		PROJECT TITLE: ELECTRICAL RENOVATION URHO SAARI SWIM STADIUM LOCATION: EL SEGUNDO CALIFORNIA SHEET TITLE: DEMOLITION ELEC PLAN - DRESSING AREA	
SPECIFICATION NO. _____ DATE _____		DRAWN BY: JOE VENTURA SHEET NO. 3 OF 7	

P/C E3-91 219 W. MARIPOSA AV. CITY OF EL SEGUNDO 2 of 2



NOTES:
 WATER SUPPLY & CABLE
 TO BE CONNECTED TO THE
 MAIN WATER LINE & CABLE
 BY THE CONTRACTOR.
 THE 3" WATER MAIN SHALL
 BE INSTALLED UNDER
 THE SIDEWALK.
 THE 4" SEWER MAIN SHALL
 BE INSTALLED UNDER
 THE SIDEWALK.
 THE 2" GAS MAIN SHALL
 BE INSTALLED UNDER
 THE SIDEWALK.
 APPROX. LOCATION
 OF SERVICE TUBS

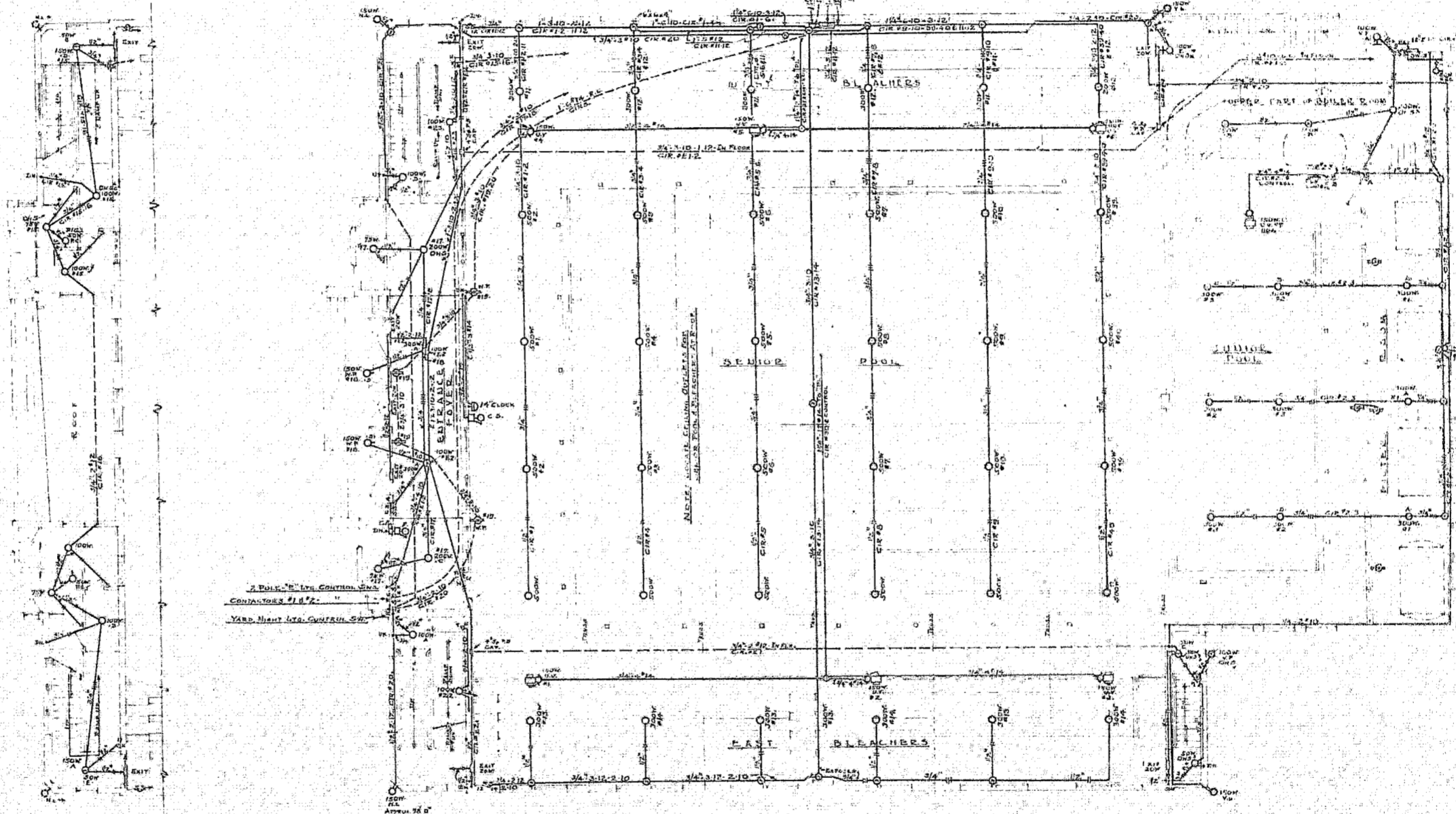
SYMBOLS FOR UTILITIES

1	WATER MAIN
2	SEWER MAIN
3	GAS MAIN
4	ELECTRIC MAIN
5	TELEPHONE MAIN
6	LOCAL WATER SERVICE
7	LOCAL SEWER SERVICE
8	LOCAL GAS SERVICE
9	LOCAL ELECTRIC SERVICE
10	LOCAL TELEPHONE SERVICE
11	LOCAL WATER SERVICE - 1/2" DIA.
12	LOCAL SEWER SERVICE - 4" DIA.
13	LOCAL GAS SERVICE - 1/2" DIA.
14	LOCAL ELECTRIC SERVICE - 1" DIA.
15	LOCAL TELEPHONE SERVICE - 1" DIA.

INFORMATION ONLY

PLOT PLAN
 S.C.A. 1, 1/2, 1/4

APPROVED DEPARTMENT OF EDUCATION RALPH E. PHILLIPS MECHANICAL & ELECTRICAL ENGINEER 608 ARCHITECT BLDG LOS ANGELES, CALIF.	APPROVED DIVISION OF ARCHITECTURE JOHN C. AUSTIN ARCHITECT 408 CHAMBERLAIN BLDG LOS ANGELES, CALIF.	APPROVED BOARD OF TRUSTEES EL SEGUNDO SCHOOL DISTRICT P L U N G E EL SEGUNDO SCHOOL DISTRICT EL SEGUNDO, CALIFORNIA JOHN C. AUSTIN ARCHITECT 408 CHAMBERLAIN BLDG LOS ANGELES, CALIFORNIA DATE 11-30-1910
--	--	--



PLAN OF TOILETS
ABOVE ENTRANCE LOYER
SCALE 1/8" = 1'-0"

BLEACHER & MAIN FLOOR PLAN
SCALE 1/8" = 1'-0"

INFORMATION ONLY

APPROVED DEPARTMENT OF EDUCATION RALPH E. PHILLIPS MECHANICAL & ELECTRICAL ENGINEER 608 ARCHITECTS BLDG. LOS ANGELES, CALIFORNIA	APPROVED DIVISION OF ARCHITECTURE JOHN C. AUGUSTIN ARCHITECT 1110 W. 12TH ST. LOS ANGELES, CALIFORNIA	APPROVED BOARD OF TRUSTEES EL SEGUNDO SCHOOL DISTRICT JOHN C. AUGUSTIN ARCHITECT 1110 W. 12TH ST. LOS ANGELES, CALIFORNIA	MAIN FLOOR PLAN PLUGE EL SEGUNDO SCHOOL DIST. LT EL SEGUNDO, CALIFORNIA JOHN C. AUGUSTIN ARCHITECT 1110 W. 12TH ST. LOS ANGELES, CALIFORNIA
--	--	---	--



E52-90 219 W. MARIPOSA AVE 1 of 1

LIGHTING FIXTURE SCHEDULE					
TYPE	TYPICAL LOCATION	HEIGHT	MANUFACTURER & MODEL NUMBER	LUMENS	DESCRIPTION
A	POOL AREA	9'-6" CEILING WITH 120" OF GR.	H-TEN # TELESEMENT	290W	24" x 16" x LOW BAY INDUSTRIAL FIXT. WITH TRANSPARENT CLEAR GLASS LENS & CORROSION RESISTANT POLYESTER FINISH.
B	BLEACHER & JUNIOR POOL AREAS	9'-6" CEILING WITH 120" OF GR.	H-TEN # TELESEMENT	170W	SAME AS "A" EXCEPT WATTAGE.
C	JUNIOR POOL AREA	9'-6" CEILING WITH 120" OF GR.	SE SUMMITCO T-2800	170W	12" x 12" x 12" LOW BAY WITH GLASS REFLECTOR LISTED FOR WET LOCATIONS.
D	ENTRANCE AREA	WALL MOUNTED	PRELITE W-242	100W	9" x 9" x 9" CRUSHED ALUMINUM WITH POLYCARBONATE DIFFUSER.

GENERAL NOTES

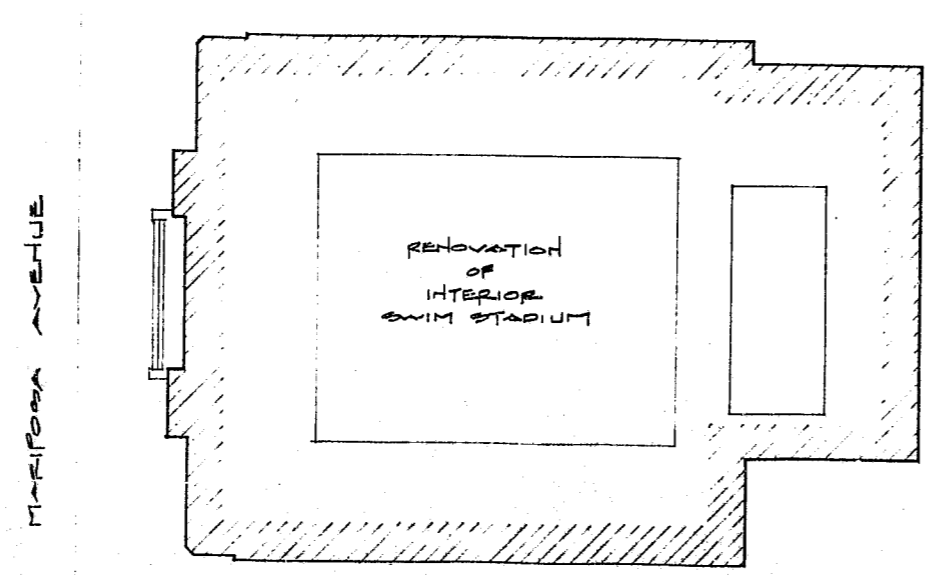
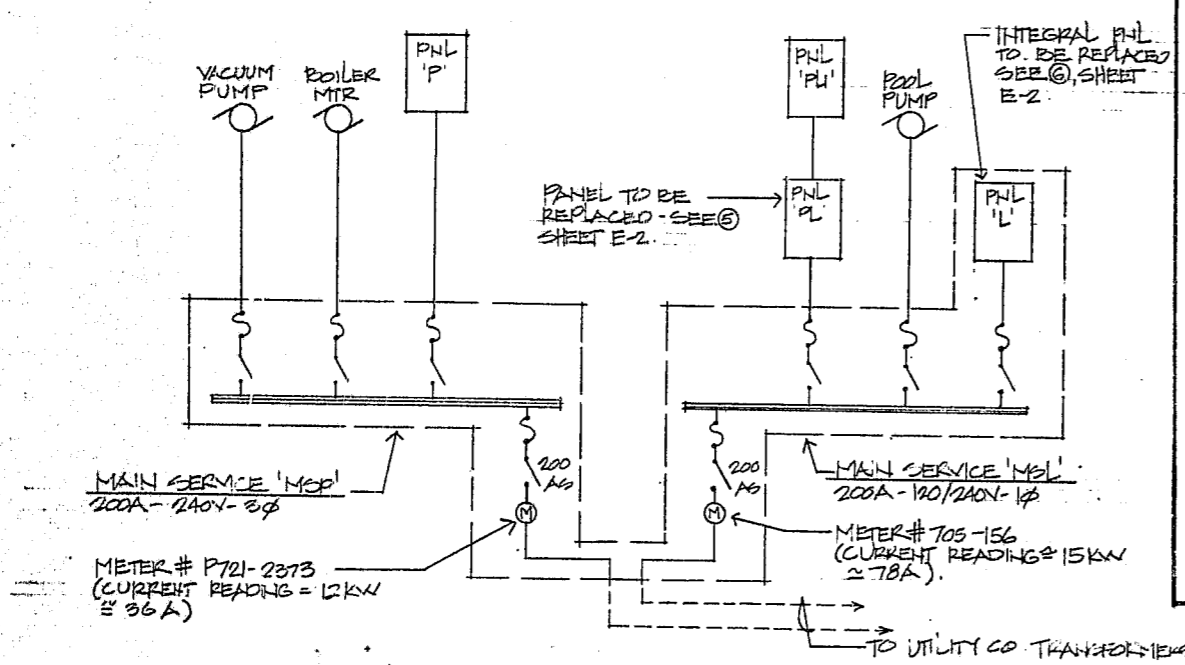
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES. INCLUDING THOSE RECEIVED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, COILS, CONDUITS, AND WIRING. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL, AND ELECTRICAL SECTIONS.
- PROVIDE ALL PERMITS FROM LOCALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES, NOTING IN THESE PLANS ANY AUTHORIZED DEVIATION FROM APPLICABLE CODES.
- DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUITS IN COOPERATION WITH OTHER TRADES TO AVOID INTERFERENCE WITH OTHER TRADES AND TO AVOID INTERFERENCE WITH MECHANICAL AND ELECTRICAL EQUIPMENT. INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF CITY ENGINEER FOR VISUAL AND STRUCTURAL REASONS.
- PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN 5 FEET OF EVERY MOTOR AND FEED MOTOR NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MANUAL OR MANUAL STARTER WITH OVERLOAD RELAYS WELDED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
- FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AUTOMATIC DELTAID VALVES, AND OTHER MECHANICAL EQUIPMENT, AND FOR CONDUITS AND WIRE ROUTING BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, DIRECTION OF BRACING AND VENTILATING CONTRACTORS.
- FOR CIRCUITS FED THROUGH FLUORESCENT FIXTURE CHANDELIERS AND FEEDS TO RECESSED INCANDESCENT FIXTURES USE INSULATED WIRE OF 103 DEGREE C. RATING.
- IN EACH CONDUIT WITHOUT CONDUITS, PROVIDE ONE #12 TW COPPER FILLER WITH A TAG IDENTIFYING LOCATION OF OPPOSITE END.
- SIZE OUTLET HOLES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUITS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM HOLE SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.
- REMARKS PLANS TO DISCOVER CHILLERS WITH A FIRE RATING OF ONE-HOUR OR MORE. PROVIDE A ONE-HOUR FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.

ELECTRICAL SYMBOLS LIST

SYMBOL	GENERAL DESCRIPTION	SYMBOL	GENERAL DESCRIPTION	SYMBOL	GENERAL DESCRIPTION
(Symbol)	FLUORESCENT FIXTURE, LETTER INDICATES FIXTURE TYPE.	(Symbol)	DISCONNECT SWITCH, LEAD, TRAIL, MANUAL OPERATED, LABEL AT "MANUAL" END.	(Symbol)	DISCONNECT SWITCH, LEAD, TRAIL, MANUAL OPERATED, LABEL AT "MANUAL" END.
(Symbol)	INCANDESCENT OR "HID" RECESSED IN CEILING, KEEP 2-INCH ACCESSIBLE FROM WITHIN FIXTURE.	(Symbol)	DISCONNECT SWITCH WITH TRIP UNIT, FLUSH IN FLOOR, (ALSO PERMITS FIXTURE REMOVAL).	(Symbol)	CONDUIT CONTAINING WIRE IN CODE SIZED CONDUIT, (CONDUIT HEIGHT: GRADE TO GRAIN INTO FOLLOWINGS)
(Symbol)	INCANDESCENT OR "HID" RECESSED IN WALL, MOUNTED, (CONFORM HEIGHT OF OUTLET)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	GROUND CONNECTION WITH ACCESSIBLE CLAMP, (TO COLD WATER PIPE OR OTHER GROUND ROD)
(Symbol)	INCANDESCENT CLUSTER OF ADJUSTABLE REFLECTOR LAMPS, (AS IN DIRECTED)	(Symbol)	CONDUIT DROPPING DOWN FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	GROUNDING ELECTRODE SYSTEM, (UPPER GROUND) PER N.E.C. SECTION 250-41
(Symbol)	SELF-CONTAINED EMERGENCY BATTERY-PAK UNIT, SEE LIGHT FIXTURE SCHEDULE.	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	MULTI-OUTLET ASSEMBLY ON SURFACE WITH DEVICES AS INDICATED (CONFORM MOUNTING HEIGHT, PAINT TO MATCH ALL)
(Symbol)	LIGHTED EXIT SIGN, CEILING, WALL MOUNTED, OR RECESSED, MOUNTED ON SEPARATE SOURCE, JUNCTION BOXES, (ARROW SHOWS ROUTE TO LEGAL EXIT)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	DETAIL DESIGNATION FOR ITEM # DRAWING NUMBER, (PAINT TO MATCH ALL)
(Symbol)	LUMINAIRE ON POST TOP, SEE DETAIL.	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	ROTTED SYMBOL IS EXISTING ITEM, OR FURNISHED BY OTHERS, (SEE SPECIFICATION FOR DIRECTIONS)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, TOGGLE, S.P.S.T., 44"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, TOGGLE, 3P S.P.T., 44"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, THREE WAY 44"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, FOUR WAY 44"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, KEY-OPERATED.	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, HONDIART CONTACT S.P.S.T.	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SWITCH, FLUSH IN WALL, WITH PILOT LIGHT, (ENGRAVE PLATE WITH ITEM CONTROL NO.)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	MULTI-POSITION SELECTOR SWITCH, (SUBSCRIPT DESIGNATES POLES AND POSITIONS)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	LOW VOLTAGE SWITCH S.P.D.T., HONDIART CONTACT, (SUBSCRIPT DESIGNATES NO. OF RELAY CONTROLLED)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	JUNCTION BOX, WITH COVER, (4" SQUARE, DEEP, WITH PLASTER RING)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	JUNCTION BOX, WALL MOUNTED, WITH COVER 12"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	JUNCTION BOX, FLUSH IN FLOOR, ADJUSTABLE HEIGHT COVER (SUBSCRIPTS: "M"-MISC., "P"-PROJECTOR, "C"-CONTROLS)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	JUNCTION BOX, FLUSH IN FLOOR, ADJUSTABLE HEIGHT COVER, (WITH 90 DEGREE CLOSE ELBOW AND FLUSH FLOOR COUPLING)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SERVICE BOX FLUSH IN FLOOR, HINGED LID, DRAIN, (DEVICES AS NOTED IN BARBERED ENCLOSURE)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SINGLE RECEPTACLE FLUSH IN FLOOR, W.T., J-BOX (HINGED BRASS COVER, 15 AMP, 120 VOLT)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	DOUBLE RECEPTACLE FLUSH IN WALL, GROUNDING TYPE 42"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	DOUBLE RECEPTACLE FLUSH IN WALL, GROUNDING TYPE 42"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	DOUBLE RECEPTACLE FLUSH IN WALL, 15A, 15A, 120 VOLT (VERTICAL GROUND FAULT CIRCUIT INTERRUPTER)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SHADING INDICATES ONE-HALF RECEPTACLE SWITCHED, 15" (ENGRAVE PLATE WITH VOLTAGE)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	POWER RECEPTACLE, MULTI-POLE, NEUTRAL & GROUND, (ENGRAVE PLATE WITH VOLTAGE)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	POWER RECEPTACLE, SPECIAL, AS DESCRIBED (R-RANGE, D-DRYER, E-ELV, ETC.)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	DOUBLE RECEPTACLE, FLUSH IN WALL, 42"	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	15 AMP., 120 VOLT, ISOLATED INDEPENDENT GROUNDING TYPE, (HUBBELL #10-5203 OR EQUAL)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	SINGLE ISOLATED GROUND RECEPTACLE EQUAL TO (HUBBELL #10-5203)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	CLOCK OUTLET FLUSH IN WALL, CONFORM HEIGHT.	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	MASTER CLOCK AND PROGRAM MACHINE, SEMI-FLUSH, (ALIGN VERTICALLY, CONFORM HEIGHT)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	
(Symbol)	PUSH-BUTTON FLUSH IN WALL, 3 P.D.T. HOM. CONTACT (ENGRAVE PLATE IDENTIFYING PURPOSE)	(Symbol)	CONDUIT RISING UP FROM RIM, (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)	(Symbol)	

ABBREVIATIONS

N.L.	NEUTRAL LIGHT
M.H.	MOUNTING HEIGHT TO CENTER OF DEVICE
M.H.C.	MOUNTING HEIGHT TO CENTER OF DEVICE
T.S.C.	TIME SWITCH CONTROL
P.E.C.	PHOTO ELECTRIC CELL & RELAY CONTROL
S.S.D.	METAL BOX 4-1/2" x 1-1/2" SQUARE (4-2-1/2" DEEP)
M.P.	WEATHERPROOF CONSTRUCTION
W.T.	WATER-TIGHT CONSTRUCTION
C.L.	"LONG CONTINUED LOAD" FOR RELAY CONTACT
P.A.	MULTI-ADDRESS & INTER-COMMUNICATION SYSTEM
C.S.	CLOCK, SIGNAL & FIRE ALARM SYSTEM
W.E.	WHITE ENAMEL FINISH
P.P.	WHITE PLYSTYRE PANEL
S.S.	STEEL FINISHED STEEL
A.T.	ALUMINUM FINISH
S.P.	SELECTIVE POSITIONS: "HAND-OVER-AUTOMATIC"
H.P.	HORSEPOWER RATING
N.C.	WIRE NOT IN THIS PORTION OF CONTRACT
E.	EXISTING
T.L.	TWIST-LOCK CONSTRUCTION, WITH MATING CAP
L.V.	LOW VOLTAGE
N.T.S.	NOT TO SCALE
K.W.	KILOWATT
K.V.A.	KILO-VOLT AMPS



CITY OF EL SEGUNDO
DEPT. OF BUILDING & SAFETY
JOB ADDRESS: 219 W. Mariposa
OWNER: City of El Segundo
GROUP: PERMANENT
DATE: 3-14-90
ARCHITECT: [Signature]
ELECTRICAL: [Signature]
MECHANICAL: [Signature]
FIRE PREVENTION: [Signature]
PLANNING: [Signature]
PUBLIC WORKS: [Signature]



City of El Segundo
 219 W. MARIPOSA AVE.
 EL SEGUNDO, CA. 90245
 DATE: 4-4-90
 E-1
 L-847 SHT. 1/2

63-91

219 W. MARIPOSA

1 of 1

GENERAL NOTES

REFERENCE: Where reference is made to Standard Specifications and Codes, the latest approved edition of the governing agency revisions shall be used. All work shall comply with the following codes:

UNIFORM BUILDING CODE, 1985 EDITION
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 CALIFORNIA BUILDING CODE - UNIFORMED
 ACCESSIBILITY REGULATIONS - 1991 (C)

CONCRETE: Reinforcing steel: Reinforcing steel used for welded chord bars shall be ASTM A-706, Grade 60. Unless otherwise indicated on drawings or specifications, all other reinforcing bars shall be ASTM A-705, Grade 60. All reinforcing steel shall conform to the requirements of the Specifications for Reinforced Concrete for Concrete Reinforcing Steel Institute. Welded plain wire fabric for concrete reinforcing shall conform to "Specifications for Welded Steel Wire Fabric for Concrete Reinforcement," ASTM A-185. Welding of reinforcing steel shall conform to AWS D1.1.

WOOD: Except as noted, all lumber shall be Douglas Fir. All lumber shall be grade marked by a reputable grading agency, in accordance with Grading rules No. 16 of the West Coast Lumber Inspection Bureau, in contact with concrete or masonry 4" or less above the ground shall be pressure treated, excepting redwood mill plates. All structural lumber shall be Douglas Fir No. 1 unless noted otherwise on drawings or specifications.

WELDED BOLTS AND NUTS: Unless otherwise specified, bolts shall be machine bolts with reliable hot cut steel washers under the heads and nuts bearing on wood. Washer size shall comply with the code. All bolts on the exterior and in wet areas shall be galvanized.

EDGES OF BOLTS: Edge margin shall be 1-1/2 diameter of bolt; center-to-center spacing of bolts shall be 4 diameters and distance (margin) shall be 7 diameters; and distance (compression) shall be 4 diameters.

SCREW BOLTS: The threaded portion of the screw shall be inserted in the lead hole by turning with a wrench. Lead hole for the shank shall have the same diameter as the shank, and the same depth as the length of the unthreaded shank. Lead hole for the threaded portion shall have a diameter equal to 45 percent of the shank and a length equal or greater than the threaded portion. Holes in steel plates shall be 1/16" larger than the shank diameter.

WELDED CONNECTIONS: Shall comply with Section 28, current edition of Uniform Building Code.

WELDS: Shall be covered with paint. Welding shall be done in accordance with the requirements of the American Institute of Steel Construction, Inc. Welding shall be done by certified welders. Areas inaccessible to field painting shall receive two shop coats of different colors. All steel shall be thoroughly primed of all loose mill scale, weld splatters, rust and all foreign matter prior to shop painting.

PAINTING: All galvanized items shall be "not-dipped" galvanized after fabrication. All welded areas, and all areas where galvanized surface has broken for any reason, shall be repaired with "Galvaloy" applied according to manufacturer's specifications.

SHOP DRAWINGS: Steel reinforcing placement drawings and structural steel shop and erection drawings shall be reviewed and stamped by the Engineer responsible for the structural design and shall be available at the jobsite at least one working day prior to placing of steel.

STEEL JOINTS: The girders or beams shall be adequately braced at intervals as required to ensure that members are not overbraced and to prevent lateral displacement during erection and until roof diaphragm has been completely installed. The top and bottom of the girder shall be braced with rods or wood members which are anchored to the floor. The angle of the brace with the floor shall be not greater than 60 degrees. Where rods are used the minimum size that Contractor shall use shall be 3/4" diameter. The Structural Engineer may make an inspection of the bracing system proposed by the Contractor prior to erection or leave to determine if the Contractor has complied with the above requirements.

CONNECTIONS: All construction shall comply with Regulations of the Uniform Building Code, current edition in use, local governmental agencies and codes.

GENERAL: Contractor shall verify from shop drawings all opening dimensions and the location of all openings, depressions, curb and areas embedded in concrete.

WELD BOLTS: Shall be 5/8" diameter x 12" @ 4'0" o.c., except as otherwise noted. Bolts shall be placed on aluminum and maximum from the ends of wooden sill plates or as otherwise noted.

STRUCTURAL STEEL: Details, fabrication, and erection shall comply with the requirements of "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings," latest edition, and Uniform Building Code. Material specification shall be as listed below unless noted otherwise.

Shapes and Plates ASTM A36 F_y = 36 ksi Unless noted Otherwise

WELDS: Shall conform to the American Welding Society "Structural Welding Code" and "Reinforcing Steel Welding Code." All welding shall be done by certified welder. Field welding shall be continuously inspected by registered deputy inspectors and a report shall be submitted to the Building Department and the Structural Engineer.

BOLTS: Shall conform to ASTM Designation A-307. Connections not detailed shall be in accordance with Part 4, "Manual of Steel Construction," AISC.

SHOP PAINTING: All structural and miscellaneous steel (except galvanized steel) shall be painted with one shop coat of zinc chromate primer. Areas inaccessible to field painting shall receive two shop coats of different colors. All steel shall be thoroughly primed of all loose mill scale, weld splatters, rust and all foreign matter prior to shop painting.

PAINTING: All galvanized items shall be "not-dipped" galvanized after fabrication. All welded areas, and all areas where galvanized surface has broken for any reason, shall be repaired with "Galvaloy" applied according to manufacturer's specifications.

SHOP DRAWINGS: Steel reinforcing placement drawings and structural steel shop and erection drawings shall be reviewed and stamped by the Engineer responsible for the structural design and shall be available at the jobsite at least one working day prior to placing of steel.

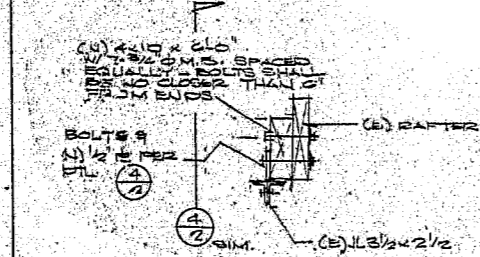
STEEL JOINTS: The girders or beams shall be adequately braced at intervals as required to ensure that members are not overbraced and to prevent lateral displacement during erection and until roof diaphragm has been completely installed. The top and bottom of the girder shall be braced with rods or wood members which are anchored to the floor. The angle of the brace with the floor shall be not greater than 60 degrees. Where rods are used the minimum size that Contractor shall use shall be 3/4" diameter. The Structural Engineer may make an inspection of the bracing system proposed by the Contractor prior to erection or leave to determine if the Contractor has complied with the above requirements.

CONNECTIONS: All construction shall comply with Regulations of the Uniform Building Code, current edition in use, local governmental agencies and codes.

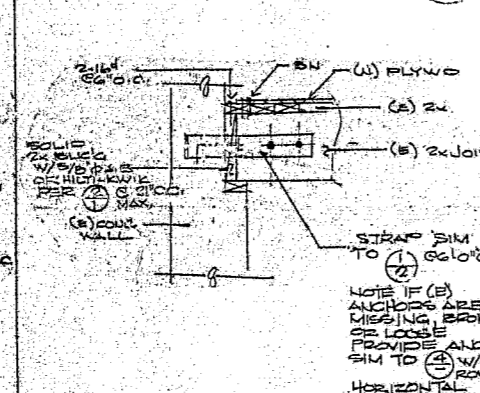
GENERAL: Contractor shall verify from shop drawings all opening dimensions and the location of all openings, depressions, curb and areas embedded in concrete.

BUILDING CODE DATA LEADS

TYPE OF CONSTRUCTION TYPE IIN
 OCCUPANCY GROUP A-2.1
 NO. OF STORES
 AREA (EXISTING) 19,800 SQ. FT. Δ



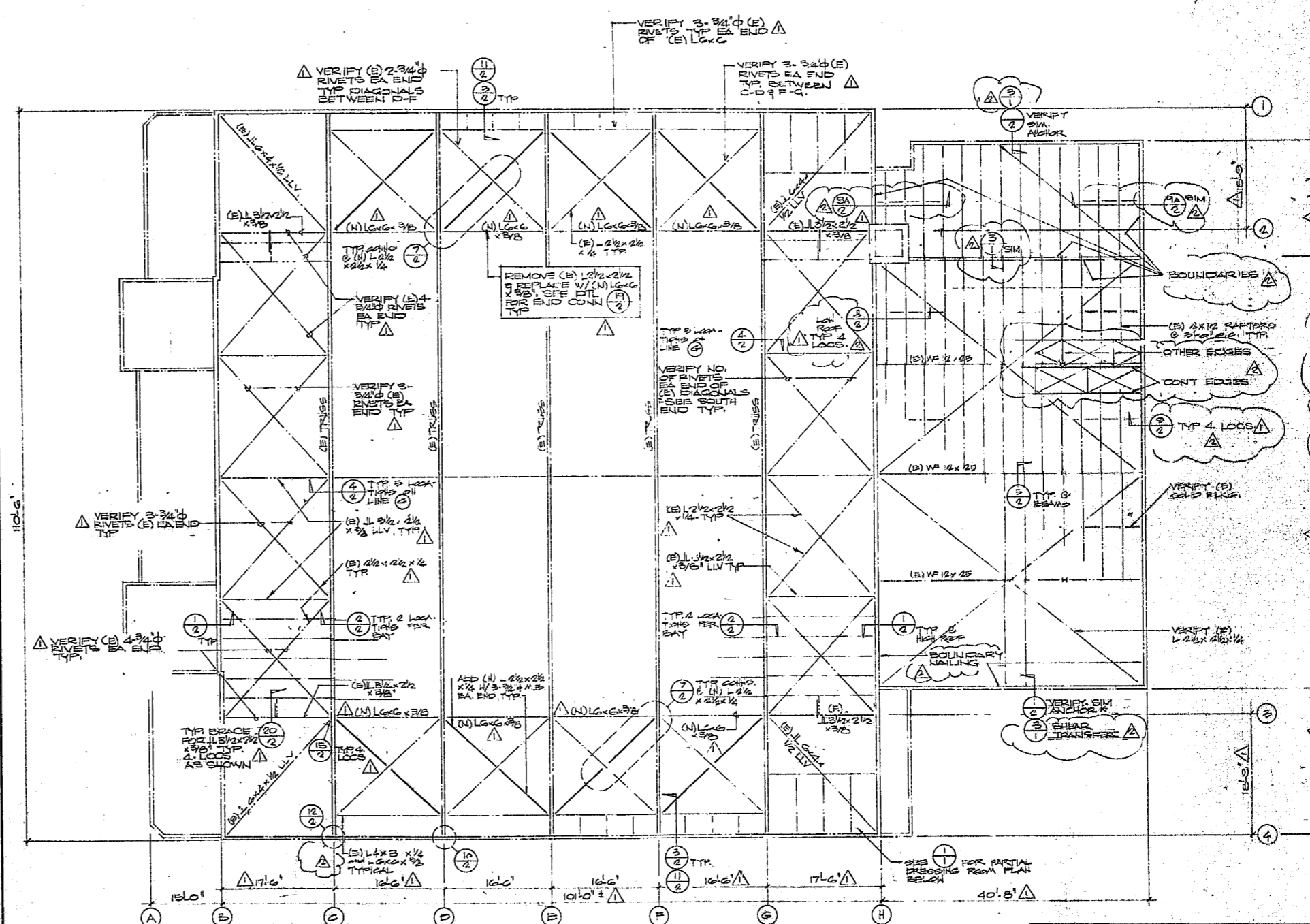
W/D SPOR FOR STRUT CONN
 NO SCALE



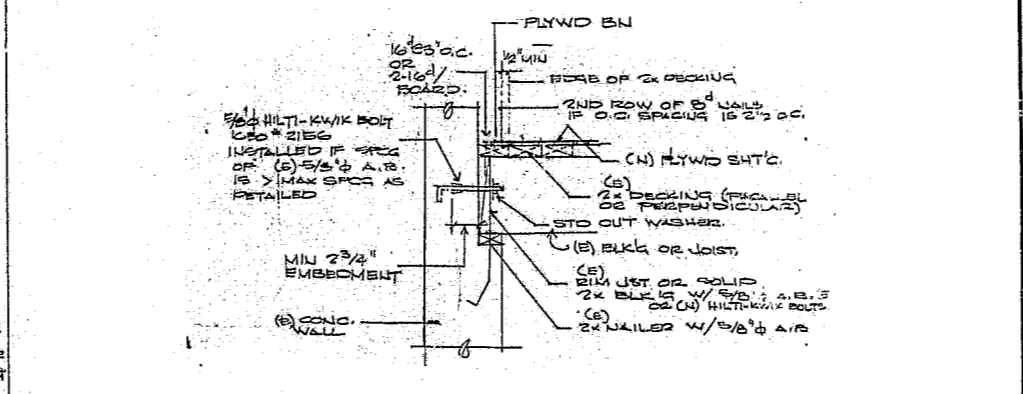
WALL ANCHOR IN LEDGE
 NO SCALE

SY#	DATE	REVISIONS
1	1/27/91	BUDG DEPT CORRE
2	1/27/91	REID MODIFICATIONS/CORRECTIONS

ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY OF EL SEGUNDO. THE CITY ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWINGS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING THE NECESSARY APPROVALS FROM THE CITY ENGINEER AND THE CITY OF EL SEGUNDO.



EXISTING ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"



SHEAR TRANSFER
 NO SCALE

CITY OF EL SEGUNDO, CALIF.
 DEPT. OF BUILDING & SAFETY
 JOB ADDRESS: 214 W. MARLBOROUGH AVE.
 OWNER: CITY OF EL SEGUNDO
 PERMIT NO.: 1345-90
 DATE: 1-23-91
 ROUTING: PLAN CHECKED (S.S.)
 ARCHITECTURAL/STRUCTURAL: C.S. - S.I.
 ENERGY STANDARD: A-2.1
 ELECTRICAL: []
 MECH & PLUMBING: []
 FIRE PREVENTION: []
 PLANNING: []
 PUBLIC WORKS: []

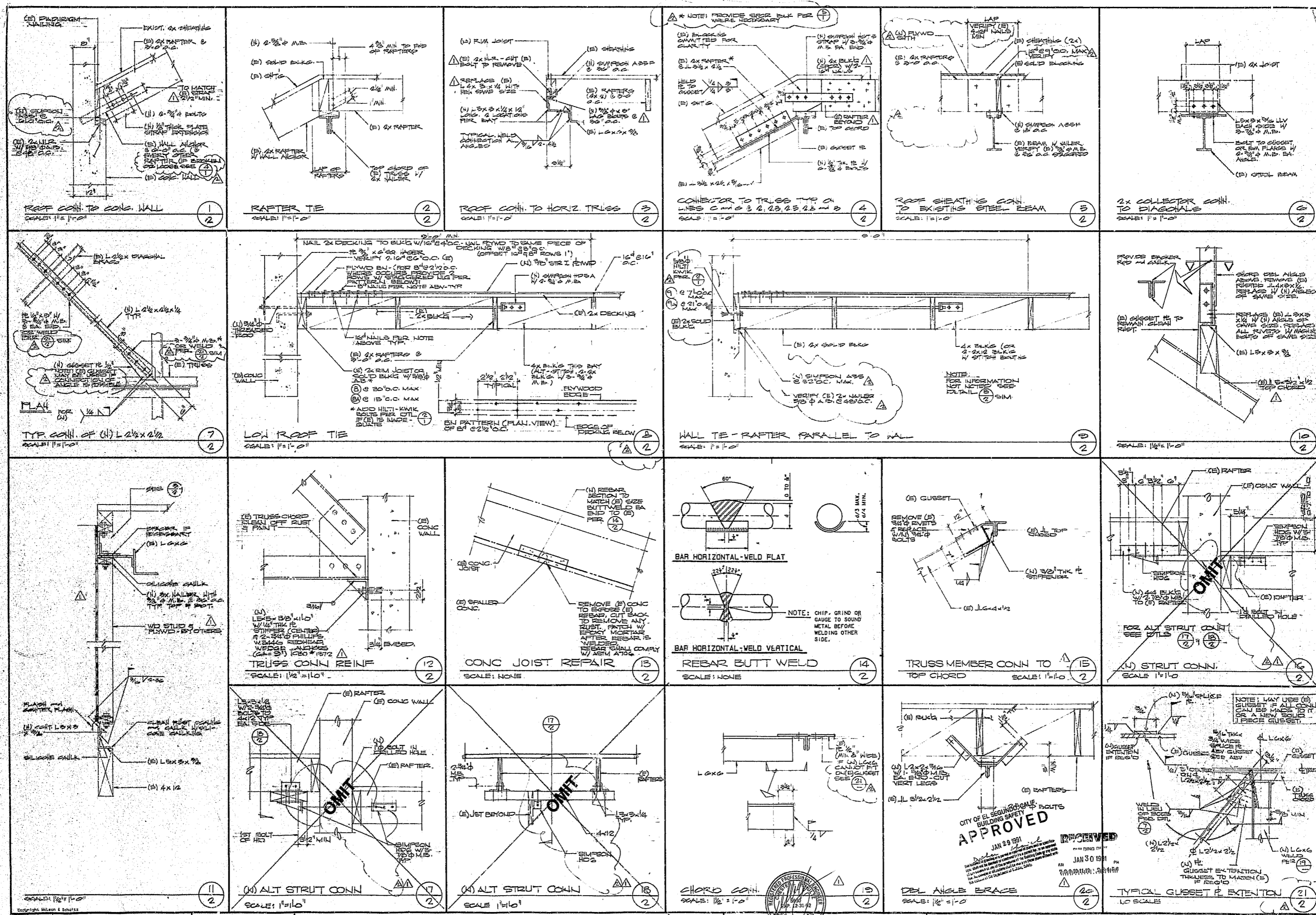
RECEIVED
 1/29/91
 JAN 30 1991

PARTIAL EXISTING DRESSING ROOM PLAN
 NO SCALE

McLean & Schultz
 architects • engineers • planners
 2000 e. chapman fullerton ca 92631 (714) 071-7370

SEISMIC STRENGTHENING OF ROOF STRUCTURE FOR EL SEGUNDO MUNICIPAL PLUNGE
 EL SEGUNDO CALIFORNIA

214 W. Marlborough
 Field Change # 1345-90



SYM	DATE	REVISIONS
1	1/7/91	BLOG DEPT CORR.
2	1/29/91	FIELD MODIFICATION/ BLDG DEPT CORRECTIONS

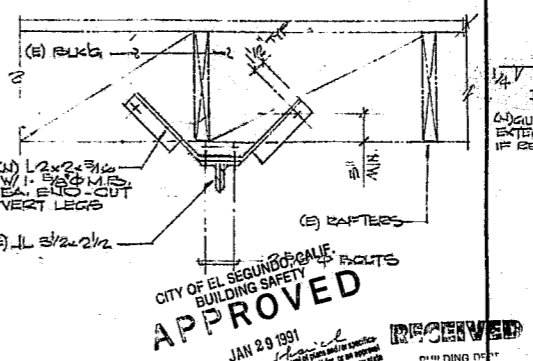
Copyright McLean & Schultz

ALL DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS ARE THE PROPERTY OF MCLEAN & SCHULTZ ARCHITECTS-ENGINEERS-PLANNERS. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MCLEAN & SCHULTZ ARCHITECTS-ENGINEERS-PLANNERS. THIS DOCUMENT IS NOT TO BE USED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF MCLEAN & SCHULTZ ARCHITECTS-ENGINEERS-PLANNERS.

McLean & Schultz
 architects • engineers • planners
 2000 n. chopman fullerton california 92631 (714) 871-7370

SEISMIC STRENGTHENING OF ROOF STRUCTURE FOR:
EL SEGUNDO MUNICIPAL PLUNGE
 EL SEGUNDO CALIFORNIA

DATE: JAN 29 1991
 JOB NO.: 20-25
 DRAWN: M.S.S.
 CHECKED: J.S.S.
 DIRECTOR: J.S.S.



1345-90 219 W. MARIPOSA AV. CITY OF EL SEGUNDO 2 of 2

GENERAL NOTES

REFERENCE: Where reference is made to Standard Specifications and Codes, the latest approved edition of the governing agency revisions shall be used. All work shall comply with the following codes:

- UNIFORM BUILDING CODE 1985 EDITION
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- CALIFORNIA BLDG. OFFICIALS ASSOCIATION ACCESSIBILITY REQUIREMENTS (1997, 04)

CONCRETE - REINFORCING STEEL: Reinforcing steel used for walls shall be as per ASTM A706, Grade 60. Unless otherwise indicated on drawings or specifications, all other reinforcing steel shall conform to the requirements of the "Specifications for Deformed Billet-Steel Bars for Concrete Reinforcement." Welded plain wire fabric for concrete reinforcing shall conform to "Specifications for Welded Steel Wire Fabric for Concrete Reinforcement," ASTM A185. Welding of reinforcing steel shall conform to AWS D1.4.

TIMBER: Except as noted, all lumber shall be Douglas Fir. All lumber shall be grade marked by a reputable grading agency in accordance with Grading Rules No. 16 of the West Coast Lumber Inspection Bureau. Lumber in contact with concrete or masonry or in contact with the ground shall be pressure treated, excepting redwood sill plates. All structural lumber shall be Douglas Fir No. 1 unless noted otherwise on drawings or specifications.

MACHINE BOLTS AND NUTS: Unless otherwise specified, shall be machine bolts with hex heads or cut steel washers under the heads and nuts bearing on wood. Washer size shall comply with the code. All bolts on the exterior and in wet areas shall be galvanized.

SPACING OF BOLTS: Row spacing shall be 1-1/2 diameter of bolt center-to-center spacing of bolts shall be 4 diameters; and distance between rows shall be 7 diameters; and distance between columns shall be 4 diameters.

LAG SCREWS: The threaded portion of the screw shall be located in its lead hole by turning with a wrench. Lead hole for the shank shall have the same diameter as the shank, and the area shall be the length of the threaded shank. Lead hole for the threaded portion shall have a diameter equal to 55 percent of the shank and a length equal to the threaded portion. Notes in steel plates shall be 1/16" larger than the shank diameter.

WELDED CONNECTIONS: Shall comply with Section 05 current edition of Division Building Code.

WELDS: Shall be carbon arc welds. When necessary to avoid splitting, welds shall be non-bored for nails. Where possible, welds drawn perpendicular to the grain shall be used in preference to toe welds. Welds shall not be drawn across together more than 1/3 their length, nor closer to the edge of a member than 1/4 their length. Penetration of welds into the piece involving the joint shall not be less than 1/8 the full length. Unless noted holes are sub-bored, then the full size in non-lead material shall be limited to 4. All holes used on the exterior or in wet areas shall be galvanized.

STEELWORK: Steelwork shall be as shown on drawings, conforming to AISC, AISC Grade, as specified by Division, or other approved code.

STEELWORK: Shall be 5/8" diameter x 12" @ 4'0" o.c., except as otherwise noted. Bolts shall be placed 5" minimum on all 4" centers from the edge of section shall be placed as otherwise noted.

MEMBERSHIP CODES: Details, fabrication, and erection shall comply with the requirements of "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings," latest edition, and Uniform Building Code. Material specification shall be as listed unless noted otherwise.

CHANGES AND PLATES: AISC 308 R₁ = 36 ksi Unless noted otherwise

WELDING: Shall conform to the American Welding Society "Structural Welding Code" and "Reinforcing Steel Welding Code." All welding shall be done by certified welder. Field welding shall be continuously inspected by registered survey inspectors and a report shall be submitted to the Building Department and the structural Engineer.

NOTES: Shall conform to AISC Designation A-307. Connections not detailed shall be in accordance with Part 4, "Manual of Steel Construction," AISC.

STEEL PAINTING: All structural and miscellaneous steel (except galvanized steel) shall be painted with one coat of zinc chromate primer, "Acan" in accordance to field painting shall require two coats of different colors. All steel shall be thoroughly cleaned of all loose mill scale, weld splatters, rust and all foreign matter prior to shop painting.

PAINTING: All galvanized items shall be "hot-dipped" galvanized steel. All galvanized items, and all areas where galvanized surfaces has broken for any reason, shall be repaired with "Galvaloy" applied according to manufacturer's specifications.

STEEL REINFORCING: Steel reinforcing placement drawings and structural steel shop and erection drawings shall be reviewed and checked by the Engineer responsible for the structural design and shall be available at the jobsite at least one working day prior to placing of steel.

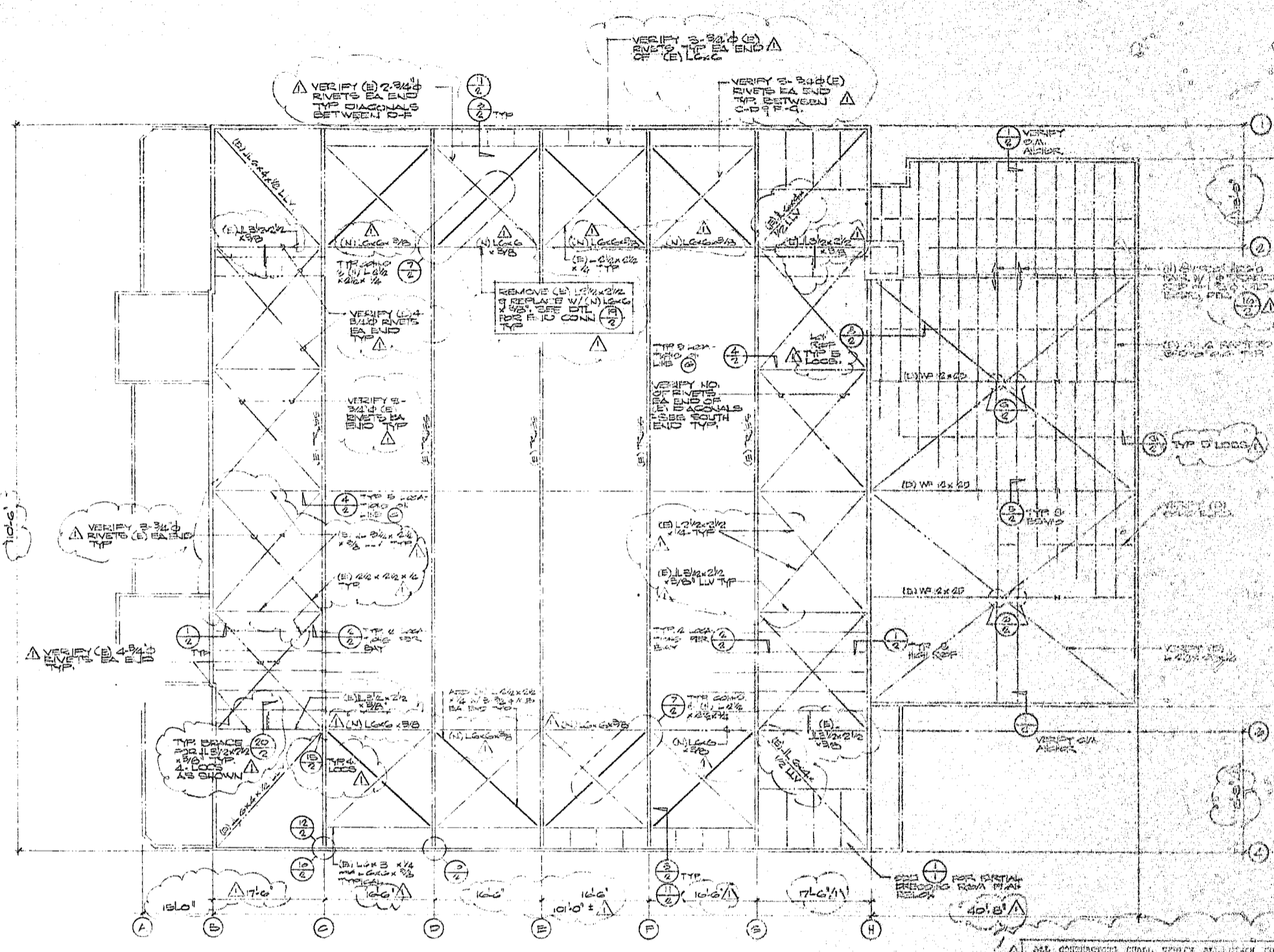
GENERAL REQUIREMENTS: The girders or beams shall be adequately braced at intervals so required to insure that members are not overstressed and to prevent lateral displacement during erection and until roof diaphragm has been completely installed. The top and bottom of the girder shall be braced with rods or steel members which are anchored to the floor. The angle of the brace with the floor shall be not greater than 60 degrees. Where rods are used the minimum size shall be 1/2" and in 2" diameter. The structural Engineer may make an inspection of the bracing system proposed by the contractor prior to erection of beams to determine if the contractor has complied with the above requirements.

CONSTRUCTION: All construction shall comply with Regulations of the Uniform Building Code, current edition in use, local governmental agencies and OSHA.

CONTRACTOR: Contractor shall verify from shop drawings all opening dimensions and the location of all openings, projections, curb and items embedded in concrete.

BUILDING CODE DATA LEGEND

TYPE OF CONSTRUCTION	TYPE I-N
OCCUPANCY GROUP	A-2.1
NO. OF STORIES	1
AREA (EXISTING)	15,500 SQ. FT.



EXISTING ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

City of E.S.
219
R. Martinez

CITY OF EL SEGUNDO
DEPT. OF PUBLIC WORKS
2000 S. CHAPMAN
EL SEGUNDO, CALIF. 90202

OWNER: City of El Segundo
GROUP: Public Works
PERMIT: 1-219-90
DATE: 1-21-91
DRAWN BY: [Signature]

RECEIVED
JAN 21 1991

PARTIAL EXISTING DRESSING ROOM PLAN
TO SCALE

REV.	DATE	REVISIONS
1	1/21/91	ISSUE FOR PERMIT

McLean & Schultz
architects • engineers • planners
2000 S. Chapman • Fullerton California 92630 • (714) 971-7370

SEISMIC STRENGTHENING OF ROOF STRUCTURE FOR EL SEGUNDO MUNICIPAL PLUNGE
EL SEGUNDO, CALIFORNIA

219
R. Martinez

