

4380 LANDIS STREET, SAN DIEGO, CA 92105

LEGAL DESCRIPTION

ASSESSOR'S PARCEL NUMBER: 471-652-0500

OCCUPANCIES AND TYPE OF CONSTRUCTION

NO CHANGE OF OCCUPANCIES, TYPE OF CONSTRUCTION OR UPDATES TO THE PARK & REC/SWIM CENTER BLDG OF ANY KIND. YEAR OF CONSTRUCTION: 1997

CONSTRUCTION CHANGE / ADDENDUM

AFFECTED OR ADDED SHEET NUMBERS

- BUILDING OCCUPANCIES INCLUDE A3/B
- 1-STORY BUILDING
- CONSTRUCTION TYPE-V NON-RATED - NON-SPRINKLERED

CHANGE DATE

SEE SHEET G-003 FOR COMPLETE CODE ANALYSIS.

CITY HEIGHTS POOL RECONSTRUCTION PRIORITY PROJECT - BID SET

4380 LANDIS STREET, SAN DIEGO, CA 92105



GOVERNING CODES

THE CONSTRUCTION OF PROJECT SHALL BE IN CONFORMANCE WITH THE CURRENT ADOPTED EDITIONS OF THE FOLLOWING CODES:

- CALIFORNIA CODE OF REGULATIONS

- CALIFORNIA BUILDING STANDARD CODE ACCESSIBILITY: AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES (ADA) ADOPTED APRIL 1 1994 AS CURRENTLY AMENDED, AMERICANS WITH DISABILITIES ACT TITLE II REGULATION 28 CFR PART 35 AND 35.151 INCLUDING THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2016 CALIFORNIA BUILDING STANDARDS CODE (CBC) PART 2, VOLUME 1, TITLE 24 C.C.R, PUBLISHED JULY 1, 2016.

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. | 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2016 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

LOCAL AGENCIES:

STATE FIRE MARSHAL CITY OF SAN DIEGO - FIRE MARSHAL ACCESS

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS.

CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.

CITY OF SAN DIEGO POLICY COMPLIANCE

- . BACKFLOW DEVICE IS EXISTING AND SHALL BE PROTECTED AS PART OF THIS PROJECT. UNLESS OTHERWISE NOTED
- 2. COMPLY WITH HAZARDOUS MATERIALS PER CITY OF SAN DIEGO BULLETIN 116
- 3. COMPLY WITH CONSTRUCTION AND DEMOLITION DEBRIS PER CITY BULLETIN 119
- 4. COMPLY WITH STORM WATER REQUIREMENTS PER CITY OF SAN DIEGO STORM WATER MANAGEMENT PLAN AS DETERMINED BY FORM DS-560. PROJECT DOES NOT DISTURB MORE THAN 1 ACRE AND CREATES LESS THAN 5000 S.F. OF IMPERVIOUS SURFACE. PROJECT DOES NOT REQUIRE A N.P.D.E.S. PERMIT. PROJECT WILL REQUIRE CONSTRUCTION B.M.P. PER SECTION IV OF THE CITY OF SAN DIEGO'S STORM WATER STANDARDS MANUAL.

RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED REASONABLE CARE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ARCHITECT OR ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.



GEOTECHNICAL INFORMATION

A GEOTECHNICAL INVESTIGATION WAS CONDUCTED ON JANUARY 15, 2019 BY NINYO & MOORE AND A REPORT DATED FEBRUARY 12, 2019 WAS PREPARED WITH AN ADDENDUM DATED MARCH 7, 2019. THE REPORT CONTAINS THE RESULTS OF THE INVESTIGATION AND LABORATORY TESTING AND RECOMMENDATIONS REGARDING

GRADING AND DRAINAGE IN ASSOCIATION WITH THE PROJECT.

800-422-4133

CITY IRRIGATION SYSTEMS & WIRING

CITY FACILITIES MAINTENANCE DIVISION 619-525-8500



SANDRA GRAMIJEY C-21073 DATE 8/16/2019 PLATT/WHITELAW ARCHITECTS INC.

UNDERGROUND UTILITIES

BEFORE EXCAVATING, VERIFY THE LOCATION OF UNDERGROUND UTILITIES. AT LEAST THREE (3) WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL REQUEST A MARKOUT OF UNDERGROUND UTILITIES BY CALLING THE BELOW LISTED REGIONAL NOTIFICATION CENTER FOR AN INQUIRY IDENTIFICATION NUMBER:

UNDERGROUND SERVICE ALERT (GAS, ELECTRIC, TELEPHONE, WATER, SEWER, LIGHTING & T.V.)

619-533-5783

GENERAL DESCRIPTION OF WORK

THE RECONSTRUCTION OF THE CITY HEIGHTS POOL & UTILITIES, RE-PAVEMENT OF THE POOL DECK AND REPLACEMENT OF THE SLIDE AND CHILDREN'S POOL PLAY STRUCTURE. INSTALLATION OF SHADE SAIL STRUCTURE, POOL RAILING & FURNITURE.

DRAWING INDEX

G-001 COVER SHEET, GOVERNING CODES, VICINITY MAP & SHEET INDEX

G-002 GENERAL NOTES, SIGNAGE NOTES, SYMBOLS & ABBREVIATIONS

G-003 EXITING PLAN & CODE ANALYSIS

C-002 DEMOLITION PLAN

C-003 OVEREXCAVATION PLAN C-004 IMPROVEMENT PLAN

C-008 UTILITY CONTROL PLAN

A-001 SITE PLAN A-010 SITE DETAILS

STRUCTURA

ELECTRICAI

S-101

C-001 NOTES, DETAILS AND CROSS SECTIONS

C-005 DECK JOINTING PLAN AND DETAILS

GROUNDWATER PUMP DETAILS C-010 WATER POLLUTION CONTROL PLAN

> TYPICAL STRUCTURAL DETAILS TYPICAL STRUCTURAL DETAILS

E-001 ELECTRICAL LEGEND AND GENERAL NOTES

SWIMMING POOL LAYOUT PLAN

SLIDE PLAN/ISOMETRIC VIEW & DETAIL

CHILDREN'S POOL LAYOUT PLAN AND SECTIONS

EXISTING MECHANICAL ROOM LAYOUT PLAN

SINGLE LINE DIAGRAM AND PANEL SCHEDULES

SWIMMING POOL UNDERWATER LIGHT PLAN

SWIMMING POOL/CHILDREN'S POOL PIPING PLAN

STRUCTURAL SITE PLAN STRUCTURAL DETAILS

ELECTRICAL SITE PLAN

C-011 WATER POLLUTION CONTROL NOTES AND DETAILS

GENERAL STRUCTURAL NOTES AND ABBREVIATIONS

SHEET# GENERAL

BUILDING PERMIT LIST:

1. SHADE STRUCTURE 2. 12' HIGH CHAIN LINK FENCE

PROJECT DIRECTORY

CLIENT/LEGAL OWNER CITY OF SAN DIEGO PUBLIC WORKS DEPARTMENT **ENGINEERING & CAPITAL PROJECTS** 525 B STREET SUITE 750 MS #908A SAN DIEGO, CA 92101-3865 PHONE: (619) 533-6635

SANDY GRAMLEY, PRINCIPAL ARCHITECT



PLATT/WHITELAW ARCHITECTS, INC

4034 30th Street, SAN DIEGO CA 92104 (619) 546-4326 FAX (619) 546-4350

CIVIL ENGINEER MEGAN ULERY, PRINCIPAL ENGINEER

Phone: 619.234.9411 / www.kimley-horn.com

STRUCTURAL ENGINEER MARK VAN BIBBER, PRINCIPAL ENGINEER



1870 Cordell Court El Cajon, CA 92020 tel 619 312 6336

ELECTRICAL ENGINEER DALE M. FRANCHAK, PRINCIPAL ENGINEER

URPIN & RATTAN

NGINEERING, INC

CONSULTING ENGINEERS

4719 PALM AVENUE LA MESA, CA 91941-5221 619 / 466 / 6224 FAX 466 / 6233 E-MAIL: ENGINEER@TREISD.COM

POOL ENGINEER JUSTIN CARON, PRINCIPAL ENGINEER



760.438.8400

DEFERRED SUBMITTALS

MR.2 DETAILS

DETAILS

DEFERRED SUBMITTAL ITEMS:

CP.3

1. POOL SLIDE

2. PLAY STRUCTURE

GENERAL NOTES:

1. PLANS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER BUT NOT LESS THAN 30 BUSINESS DAYS PRIOR TO INSTALLATION FOR THE CITY REVIEW AND APPROVAL.

2. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

. THE REGISTERED AND RESPONSIBLE DESIGN PROFESSIONAL SHALL REVIEW THE DEFERRED SUBMITTAL DOCUMENTS AND SUBMIT THEM TO THE BUILDING OFFICIAL, WITH ANNOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING

G-001

AS-BUILT INFORMATION MANUFACTURER MATERIALS

CITY HEIGHTS POOL RECONSTRUCTION

COVER SHEET, GOVERNING CODES, VICINITY MAP & SHEET INDEX

CONSULTANT

PLATT/WHITELAW ARCHITECTS, INC. 4034 30th Street, SAN DIEGO CA 92104

(619) 546-4326 FAX (619) 546-4350

INSPECTOR

CITY OF SAN DIEGO, CALIFORNIA SPEC. NO. 1888A WBS B-19068 PUBLIC WORKS DEPARTMENT 1 out of 41 Parto amulah 8/19/2019 PARITA AMMERLAHN PROJECT MANAGER PARITA AMMERLAHN PRINT NAME EFRAIN VELELA-MAYO APPROVED DATE FILM DESCRIPTION PROJECT ENGINEER CC\$27 COORDINATE 1850-6297 CCS83 COORDINATE CONTRACTOR DATE STARTED 41287 - 01 - D DATE COMPLETED

MONUMENTATION/SURVEY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL

CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

WARNING

IF THIS BAR DOES

NOT MEASURE 1"

THEN DRAWING IS

NOT TO SCALE.

APPROVAL NO.

CONSTRUCTION STORM WATER PROTECTION NOTES

. TOTAL SITE DISTURBANCE AREA (ACRES) : 0.50 AC HYDROLOGIC UNIT/ WATERSHED: PUEBLO SAN DIEGO/SAN DIEGO BAY HYDROLOGIC SUBAREA NAME & NO. : CHOLLAS & 908.22

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ TRADITIONAL: RISK LEVEL 1 □ 2 □ 3 □ LUP: RISK TYPE 1 □ 2 □ 3 □

3. CONSTRUCTION SITE PRIORITY

☐ ASBS ☐ HIGH ☐ MEDIUM ☒ LOW

The City of SAN DIEGO Public Works

РΗ

PL/(>)

PLAM

PLAS

PLASTIC

INDEX

FTG

FINISH SURFACE

FIRE SPREAD

FOOT, FEET

FOOTING

PANIC

PLASTIC

PLASTIC

LAMINATE

HARDWARE

PROPERTY LINE TYP

DISPENSER

TYPICAL

UNLESS

TRANSVERSE

OTHERWISE

TRANS

UON

ONSTRUCTIO

 $\overline{\mathbf{Z}}$

 \Box

HEIGHT(

EFRAIN VELELA-MAYO

PROJECT ENGINEER

CCS27 COORDINATE

1850-6297 CC\$83 COORDINATE

41287 - 02 - D

PRINT NAME

DESCRIPTION

APPROVED

DATE STARTED

DATE COMPLETED

BY

DATE FILM

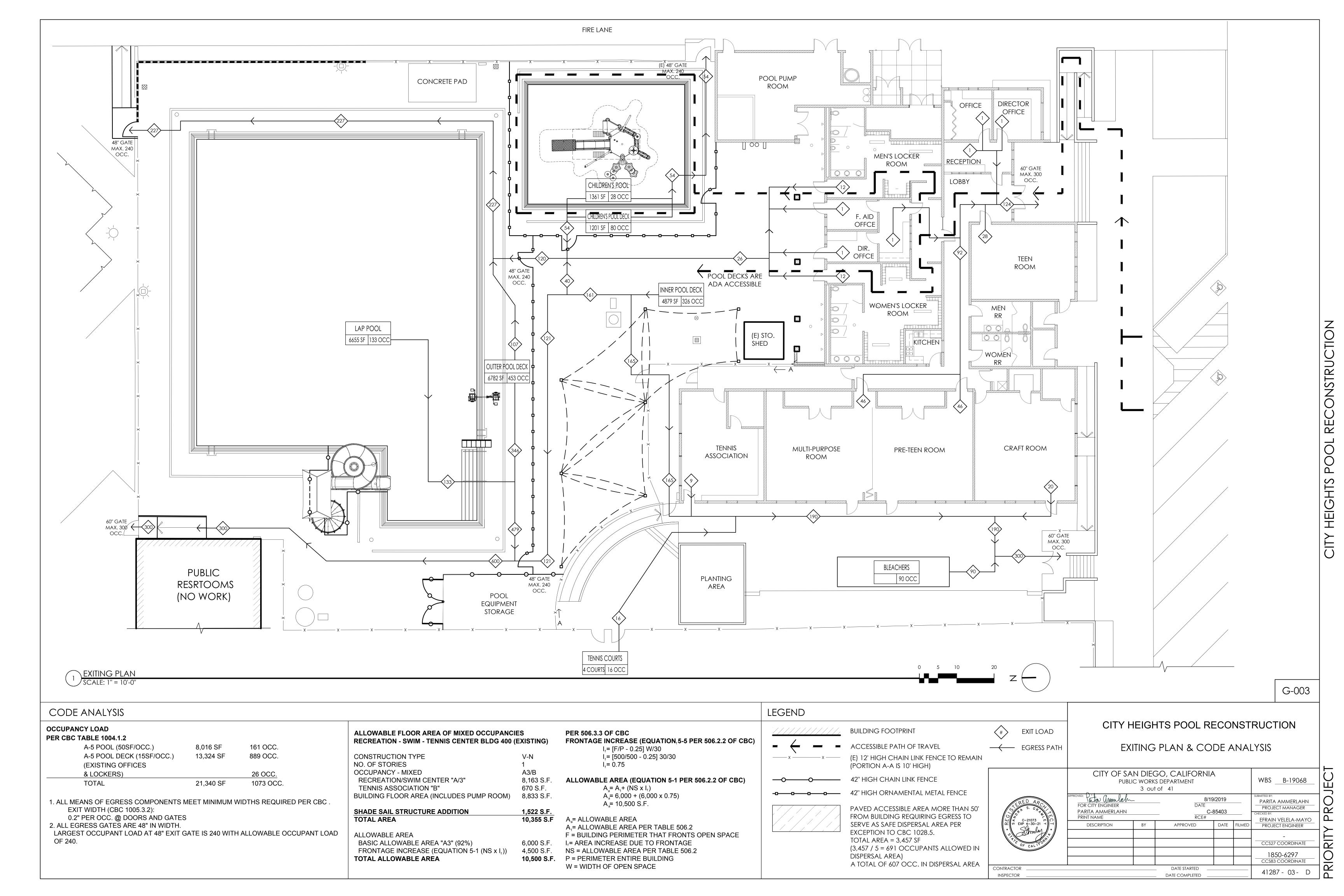
₩ C-21073 ₩ EXP 4-30-21

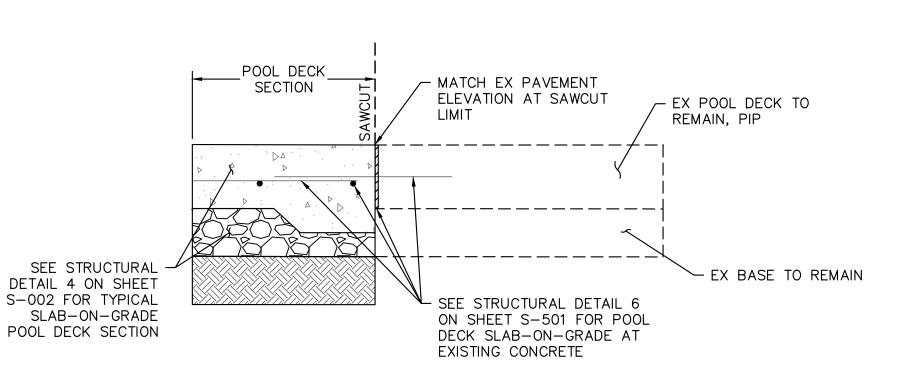
CONTRACTOR

INSPECTOR

ACCESSIBLE ROUTE OF TRAVEL DIVERGES FROM REGULAR

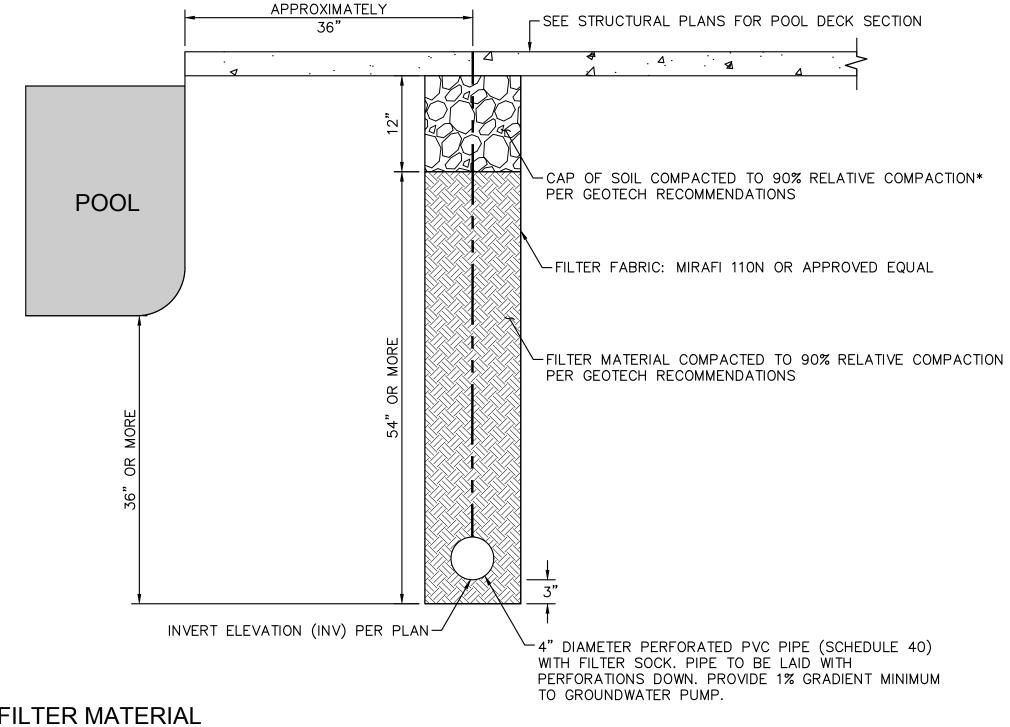
CIRCULATION PATH.





1. SAWCUT AT THE NEAREST CONCRETE JOINT; CONTRACTOR TO VERIFY LIMITS IN FIELD.

SAWCUT IN POOL DECK NOT TO SCALE



FILTER MATERIAL

FILTER MATERIAL SHALL BE CLASS 2 PERMEABLE MATERIAL PER STATE OF CALIFORNIA STANDARDS SPECIFICATIONS.

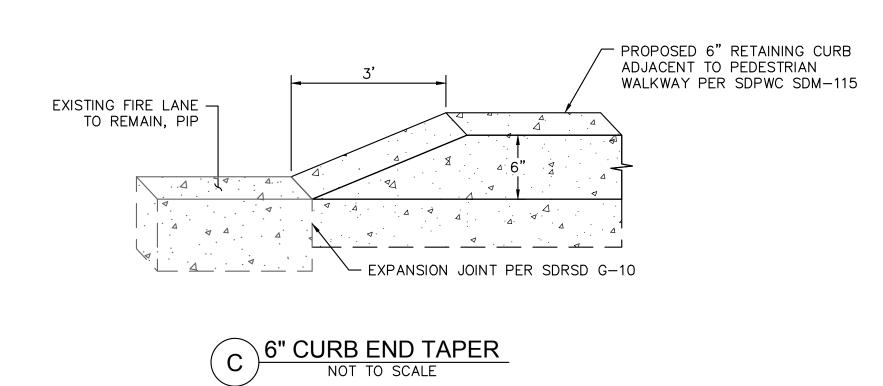
PERCENT PASSING 100 SIEVE SIZE 1 INCH

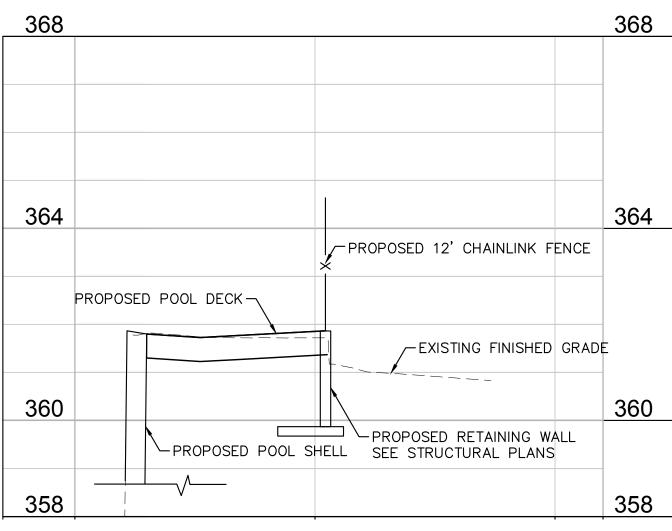
3/4 INCH 90-100 3/8 INCH 40-100 25-40 NO. 4 18-33 NO. 8 5-15 NO. 30 0 - 7NO. 50 NO. 200 0 - 3

NOTE: AS AN ALTERNATIVE, THE FILTER MATERIAL MAY CONSIST OF 3/4-INCH OPEN-GRATED GRAVEL WRAPPED IN MIRAFI 110N FILTER FABRIC OR APPROVED EQUAL.

UNDERDRAIN WITH PERFORATED PIPE NOT TO SCALE

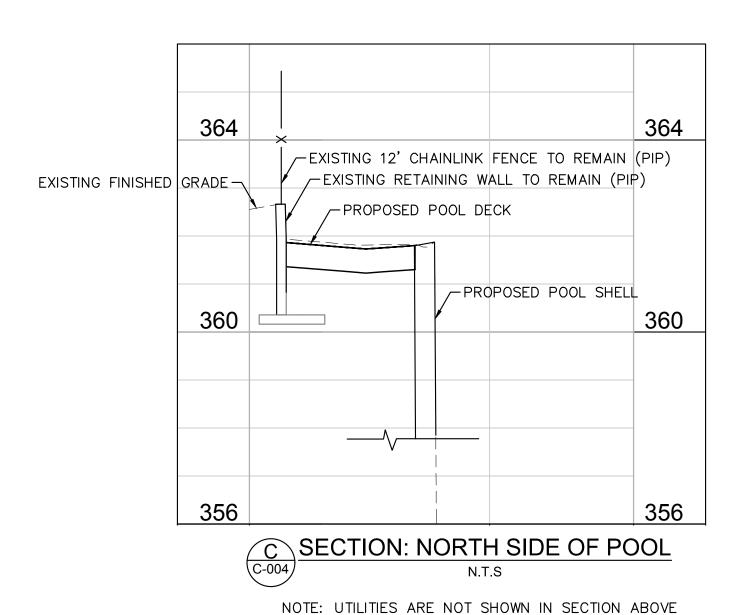
*BASED ON APPLICABLE ASTM D 1557





B SECTION: EAST SIDE OF POOL

NOTE: UTILITIES ARE NOT SHOWN IN SECTION ABOVE



CIVIL ABBREVIATIONS

ASPHALT CONCRETE

BEG BEGIN BLDG BUILDING

BMP BEST MANAGEMENT PRACTICE

C&G CURB AND GUTTER CO CLEANOUT CONC CONCRETE

DEPTH DS DURASLOPE (NDS)

DWG DRAWING **EASTING** EL/ELEV ELEVATION ELEC ELECTRICAL

EPB ELECTRICAL PULLBOX

EX/EXIST EXISTING FG FINISHED GRADE - PROPOSED

FG (FINISHED GRADE — EXISTING FIRE HYDRANT

FLOW LINE

FINISHED SURFACE - PROPOSED FS (FINISHED SURFACE - EXISTING

GB GRADE BREAK

GPM GALLONS PER MINUTE HEIGHT HIGH WATER LEVEL

INVERT ELEVATION INV INVERT LENGTH LS LANDSCAPE LIGHT

LWL LOW WATER LEVEL MAX MAXIMUM MATCH EXISTING MIN MINIMUM

N.T.S NOT TO SCALE PCC PORTLAND CEMENT CONCRETE

NORTHING

PIP PROTECT IN PLACE

PKG PARKING PROP PROPOSED

PVC POLYVINYL CHLORIDE RETAINING SCO SEWER CLEANOUT

SD STORM DRAIN

STORM DRAIN MANHOLE SAN DIEGO PUBLIC WORKS CONSTRUCTION SDPWC

SCHEDULE

SAN DIEGO REGIONAL STANDARD DRAWINGS

TC TOP OF CURB TDH TOTAL DYNAMIC HEAD TOP OF FOOTING TOP OF GRATE

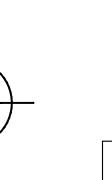
TW TOP OF WALL TYP **TYPICAL**

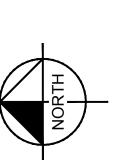
CITY HEIGHTS POOL RECONSTRUCTION

NOTES, DETAILS, AND CROSS SECTIONS

SPEC. NO.: 1888	CITY OF PUE	WBS <u>B-19068</u>				
PROFESS/OWALCE	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	rh_	08/19 DATE C8540 RCE#			SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY No. 73385	DESCRIPTION	BY	APPROVED	DATE	FILMED	
* Light filly			Margo William			CCS27 COORDINATE
TIE OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED DATE COMPLETED	1		41287- 4 -D

September 17, 2019 City Heights Pool Reconstruction







DEMOLITION PLAN

DATE COMPLETED

SPEC. NO.: 1888		LIC WOR	DIEGO, CALIFO KS DEPARTMENT t of 41	RNIA		WBS <u>B-19068</u>
PROFESS/ONALCE	FOR CITY ENGINEER PARITA AMMERIAHN PRINT NAME	1		9/2019 03		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY:
S MEGAN R. ULERY	DESCRIPTION	BY	APPROVED	DATE	FILMED	EFRAIN VELELA-MAYO PROJECT ENGINEER
MEGAN R. ULERY R. No. 73385			Paita amulah			_
The state of the s						CCS27 COORDINATE
OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED			41287- 5 -D

INSPECTOR

DEMOLITION NOTES

-(1)STEPS & HANDRAIL

CONC POOL

DECK

(1)SEW#R

1) FENCE

__(1)BLDG

DRINKING_

FOUNTAIN

___2 sco

28) END

(1) WATER

(1)RET WALL

1)SEWER

1) FENCE

1)FENCE

1)RET WALL

-(19)END

TENNIS

1)RET WALL

1 CONCRETE PAD/ SURGE CHAMBER

SEWER(1)

BENCH 33

LIGHT (1)

RET WALL(1)-

FENCE (1)

GATE (1)

ptember 17, 2019 City Heights Pool Reconstruction

RESTROOM BLDG

- 1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN THE PROJECT GRADING & IMPROVEMENT LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
- 2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
- 3. THE CONTRACTOR SHALL MAINTAIN EXISTING ELECTRICAL CIRCUITS FOR EQUIPMENT NOT REMOVED DURING DEMOLITION.
- 4. THE CONTRACTOR SHALL MAINTAIN EXISTING IRRIGATION FOR ALL AREAS NOT REMOVED DURING CONSTRUCTION.
- 5. ANY IRRIGATION THAT IS REMOVED DURING THE REMOVAL OF PALMS SHALL BE CAPPED IN A MANNER THAT THE REMAINING PORTIONS OF THE SYSTEM ARE NOT COMPROMISED. THE IRRIGATION SYSTEM SHALL BE RESTORED TO THE ORIGINAL CONFIGURATION AFTER CONSTRUCTION. PRIOR TO COMPLETION, CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION SYSTEMS IMPACTED ARE IN FULL WORKING ORDER WITH COMPLETE HEAD TO HEAD COVERAGE INCLUDING NO OVERSPRAY ONTO HARDSCAPE SURFACES. ANY IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND BY THE CONTRACTOR.
- 6. SEE ELECTRICAL PLANS FOR ELECTRICAL AND LIGHTING EQUIPMENT REMOVALS, ADJUSTMENTS, RELOCATIONS AND NEW INSTALLATIONS.
- OVERHEAD ELECTRICAL, CABLE AND TELEPHONE LINES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL NOT IMPACT THESE OVERHEAD UTILITY LINES AT ANYTIME DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE OVERHEAD UTILITY LINES PRIOR TO MOBILIZATION AND CONSTRUCTION.
- 8. CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION.
- 9. PROPOSED SAWCUT OF CONCRETE FACILITIES SHOULD BE REPLACED FROM JOINT TO JOINT.
- 10. EXISTING SITE LANDSCAPING THAT IS PROTECTED IN PLACE DURING CONSTRUCTION SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. HAND WATER IF REQUIRED DUE TO TEMPORARY IRRIGATION IMPACTS.
- 11. PALM TREES TO BE TEMPORARILY BOXES SHALL BE WATERED AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- 12. IF EXISTING IMPROVEMENTS TO BE PROTECTED IN PLACE ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN KIND OR BETTER BY THE CONTRACTOR PER THE SATISFACTION OF THE RESIDENT ENGINEER.
- 13. CONCRETE UTILITY BOXES IMPACTED BY DEMOLITION ACTIVITIES SHALL BE REPLACED IN KIND WITH NEW CONCRETE BOXES.

- LEGEND
 - REMOVE CONCRETE POOL DECK & RAMP
 - REMOVE LANDSCAPE AND MULCH
 - --- SAWCUT
 - · × × × · FENCE/UTILITY REMOVAL
 - ——//—— GRADING LIMIT

DEMOLITION NOTES

- 1) PROTECT IN PLACE
- (2) ADJUST TO GRADE
- (3) SAWCUT PER DETAIL A ON SHEET C-001
- (4) REMOVE POOL SHELL, COPING, HANDRAILS AND ADJACENT RIM-FLOW GUTTER DRAIN & GRATE
- (5) REMOVE 18"x18" POOL MAIN DRAIN & GRATE
- (6) REMOVE 8" PVC MAIN DRAIN
- (7) REMOVE 5" DIAMETER FLOOR INLET
- (8) REMOVE FLOOR INLET WATER SUPPLY LINE
- (11) REMOVE 8" AIR VENT LINE
- (12) REMOVE 6" AIR VENT LINE
- (13) REMOVE 6" WIDE SLOT DRAIN & GRATE
- (14) REMOVE 12"x12" AREA DRAIN
- (16) REMOVE AND SALVAGE BENCH (RETURN TO CITY)
- (17) REMOVE 4' HIGH FENCE
- (18) REMOVE 4' HIGH MAN GATE
- (19) REMOVE PORTION OF RETAINING WALL, 12' HIGH FENCE AND FENCE
- (20) REMOVE POOL LIGHT
- (21) REMOVE ELECTRICAL CONDUIT
- 22 REMOVE SLIDE STRUCTURE & FOOTINGS
- (23) REMOVE 4' HIGH STEEL CHILDREN'S POOL FENCE
- (24) REMOVE RAMP AND POSTS
- (SEE AQUATIC DESIGN PLANS)
- (27) REMOVE SHADE STRUCTURE & FOOTINGS
- (28) ABANDON STORM DRAIN, INSTALL END CAPS AS NEEDED
- (29) REMOVE EXISTING SEWER CLEANOUT
- 30 SALVAGE EXISTING PALMS (FOR CONSTRUCTION SITE ACCESS); BOX AND PROTECT FOR REINSTALLATION
- (31) REMOVE CHILDREN'S POOL GUTTER SYSTEM
- (32) REMOVE CHILDREN'S POOL PLAY STRUCTURE
- 33) RELOCATE BENCH PER CITY RESIDENT ENGINEER DIRECTION

CITY HEIGHTS POOL RECONSTRUCTION

WBS <u>B-19068</u>

PARITA AMMERLAHN PROJECT MANAGER

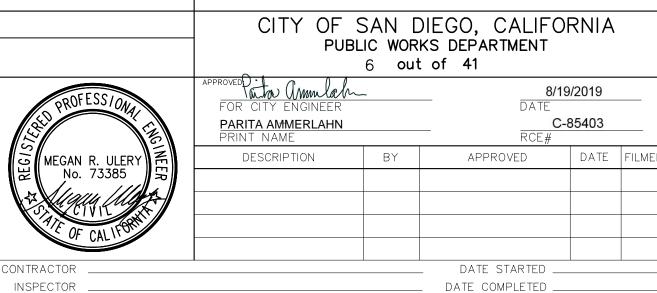
EFRAIN VELELA-MAYO

PROJECT ENGINEER

CCS27 COORDINATE

1850-6297 CCS83 COORDINATE

41287- 6 -D



OVEREXCAVATION GRADING QUANTITIES CUT: 3,090 CY (RAW)

FILL: 0 CY (RAW) NET: 3,090 CY (RAW) EXPORT

BACKFILL QUANTITIES

CUT: 0 CY (RAW) FILL: 1,300 CY (RAW) NET: 1,300 CY (RAW) IMPORT

NOTES

FG: 354.6

FG: 354.6-

-GRADE BREÁK (TYP)

/-FG: 353.4 /-FG: 353.7

SHORING AS NEEDED FOR GROUNDWATER PUMP INSTALLATION

AND SEWER INSTALLATION PER GEOTECHNICAL AND STRUCTURAL RECOMMENDATIONS.

←FG: 353.8

FG: 354.1—

└FG: (361.8)

FG: 355.2—

└_FG: 354.1

FG: 348.6

FG: 347.6—

FG: (362.3)—

FG: (361.7)—

FG: 348.8-

FG: 348.6—

FG: 347.9—

- 1. EXCAVATION PLAN AND SHORING LIMITS EXCLUDE THE EXCAVATION REQUIRED FOR POOL DECK, CHILDREN'S POOL RECONSTRUCTION, AND GROUNDWATER PUMP INSTALLATION.
- 2. SEE STRUCTURAL SHEET S-001 FOR TEMPORARY SHORING INFORMATION.
- 3. QUANTITIES ABOVE DO NOT INCLUDE ADDITIONAL SHORING AND/OR EARTHWORK THAT MAY BE REQUIRED FOR REMOVAL & REPLACEMENT OF PALM TREES, RETAINING WALLS, SEWER MANHOLE, GROUNDWATER PUMP, AND UTILITY CONSTRUCTION AND INSTALLATION.
- 4. CONTRACTOR IS RESPONSIBLE FOR CALCULATING ACTUAL QUANTITIES FOR GRADING AND BACKFILL MATERIAL TO COMPLETE THE PROJECT PER THE CONTRACT.

LEGEND

SLOPE DAGGER

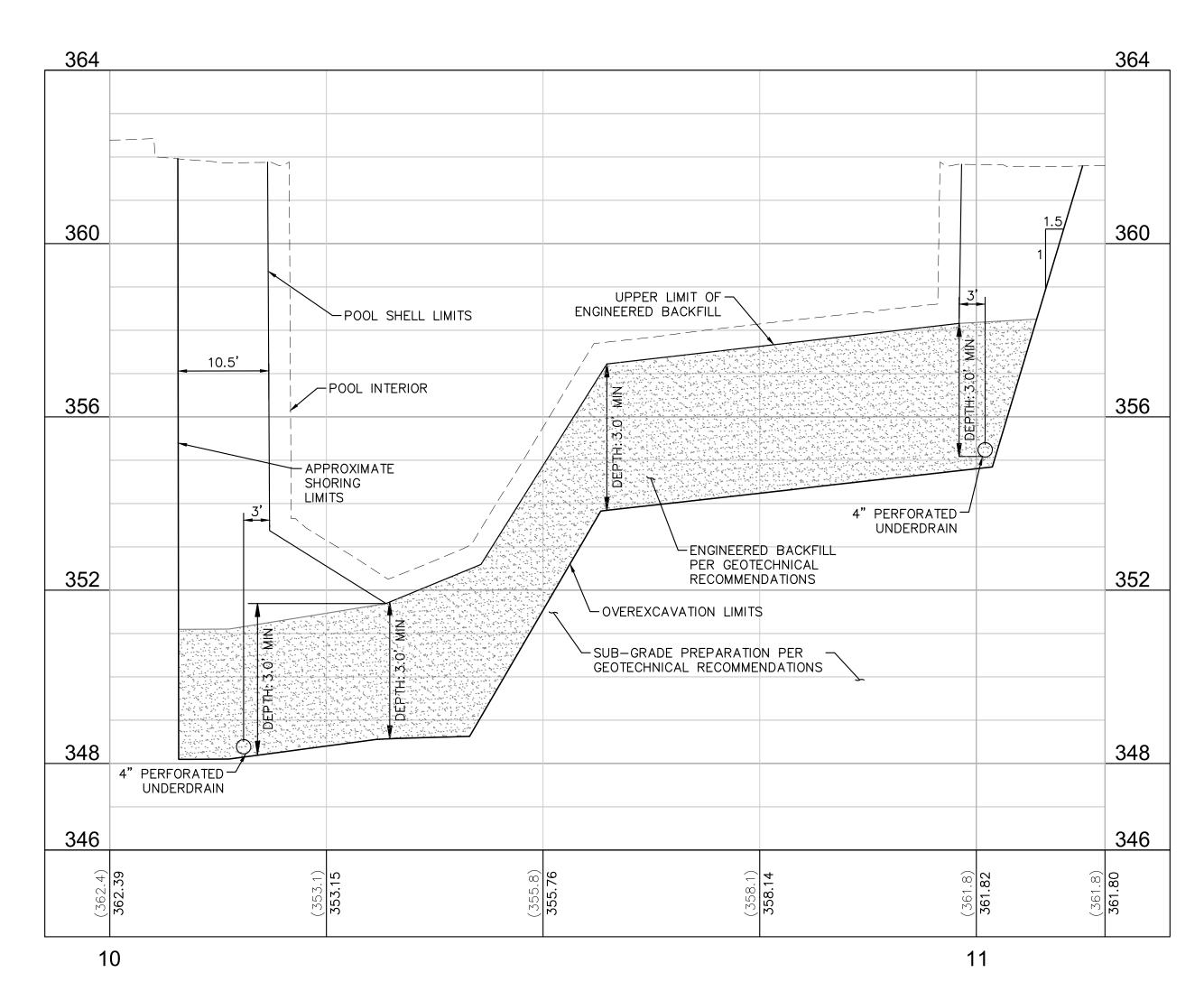
SHORING LIMITS —//— EXCAVATION LIMITS

--- GRADE BREAK

ENGINEERED BACKFILL (PROFILE)

FG: (XXX.X) EXISTING FINISHED GRADE

FG: XXX.X OVEREXCAVATION FINISHED GRADE

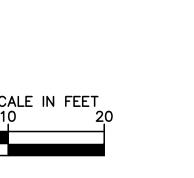


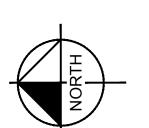
SECTION A-A

N.T.S.

CITY HEIGHTS POOL RECONSTRUCTION

OVEREXCAVATION PLAN





--- SAWCUT



LEGEND



CONCRETE (POOL DECK)



(1) STEPS & HANDRAIL

PUMP

CONC

POOL DECK

/—1)BLDG

TDRINKING -

ノFOUNTAIN

4.5

4

CONCRETE PAD/ SURGE CHAMBER

8 END

/ WALKWAY

TENNIS COURTS └(1)RET WALL

7 7

CONCRETE (INCLUDES WALKWAY AND RAMP)

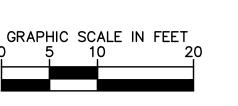
■■■ RETAINING WALL

IMPROVEMENT CONSTRUCTION NOTES

- 1) PROTECT IN PLACE
- 2 ADJUST TO GRADE
- 3 SAWCUT PER DETAIL A ON SHEET C-001
- 4 CONSTRUCT CONCRETE SLAB (POOL DECK) PER STRUCTURAL DETAIL 4 ON SHEET S-002
- (5) CONSTRUCT FENCE AND GATES PER ARCHITECTURAL PLANS
- (6) CONSTRUCT CONCRETE SLAB TURNDOWN AROUND OUTTER PERIMETER OF POOL DECK PER STRUCTURAL DETAIL 6 ON SHEET S-501
- (7) SEE UTILITY PLANS C-007 AND C-008 MORE INFORMATION
- (8) CONSTRUCT RETAINING WALL PER STRUCTURAL DETAIL 1 ON SHEET S-501 AND 12' HIGH CHAIN LINK FENCE PER SDPWC SDM-112 WITH FENCE FABRIC (MATCH EXIST).
- 9 CONSTRUCT CONCRETE PEDESTRIAN WALKWAY WITH RETAINING CURB PER SDPWC SDG-109 AND SDG-155
- (10) CONSTRUCT CONCRETE PEDESTRIAN WALKWAY AND PROTECTIVE RAILING PER SDPWC SDM-115
- (11) CONSTRUCT 6" CURB END TAPER PER DETAIL C ON SHEET C-001
- (12) CONSTRUCT POOL, SEE AQUATIC DESIGN PLANS
- (13) CONSTRUCT CHILDREN'S POOL, SEE AQUATIC DESIGN PLANS
- (14) REPLANT PALMS PER SDPWC SDL-107
- 15) INSTALL DOWELL CONNECTION FOR POOL DECK AND SIDEWALLS PER STRUCTURAL DETAIL 2 ON SHEET S-501
- 16 INSTALL PUMP STATION ELECTRICAL PANEL, SEE SHEET E-002. ULTIMATE LOCATION TO BE DETERMINED IN FIELD
- (17) INSTALL 42" HIGH CHAIN LINK FENCE PER SDPWC SDM-112
- (18) INSTALL 42" HIGH DOUBLE SWING CHAIN LINK GATES (GATE LEAF LENGTH=5', 2 TOTAL) PER SDPWC SDM-114

NOTES

- 1. SEE AQUATIC DESIGN PLANS (SP SHEETS) FOR LOCATIONS OF POOL EQUIPMENT, POOL PLUMBING AND ACCESSORIES MOUNTED ON THE POOL
- 2. SEE GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION AND OVEREXCAVATION RECOMMENDATIONS.
- 3. AFTER DEMOLITION AND GRADING ACTIVITIES, THE RESIDENT ENGINEER WILL EVALUATE THE CONDITION OF THE EXISTING FENCE, RETAINING WALL AND FENCE POSTS NEAR THE LIMITS OF WORK. IF THE EXISTING FENCE, RETAINING WALL AND FENCE POSTS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE TO THE SATISFACTION OF THE RESIDENT ENGINEER.





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C-004

CITY HEIGHTS POOL RECONSTRUCTION

IMPROVEMENT PLAN

SPEC. NO.: 1888		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 7 out of 41				
PROFESS/ONAL CE	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	ch_		9/2019 103		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY RE No. 73385	DESCRIPTION	BY	APPROVED Poita ammlah	DATE	FILMED	
OF CALIFORNIA						1850-6297 CCS83 COORDINATE
CONTRACTOR			DATE STARTED DATE COMPLETED			41287— 7 —D

September 17, 2019 City Heights Pool Reconstruction

LIGHT (1)-

/LIGHT (1) \>,

RET WALL (1)-

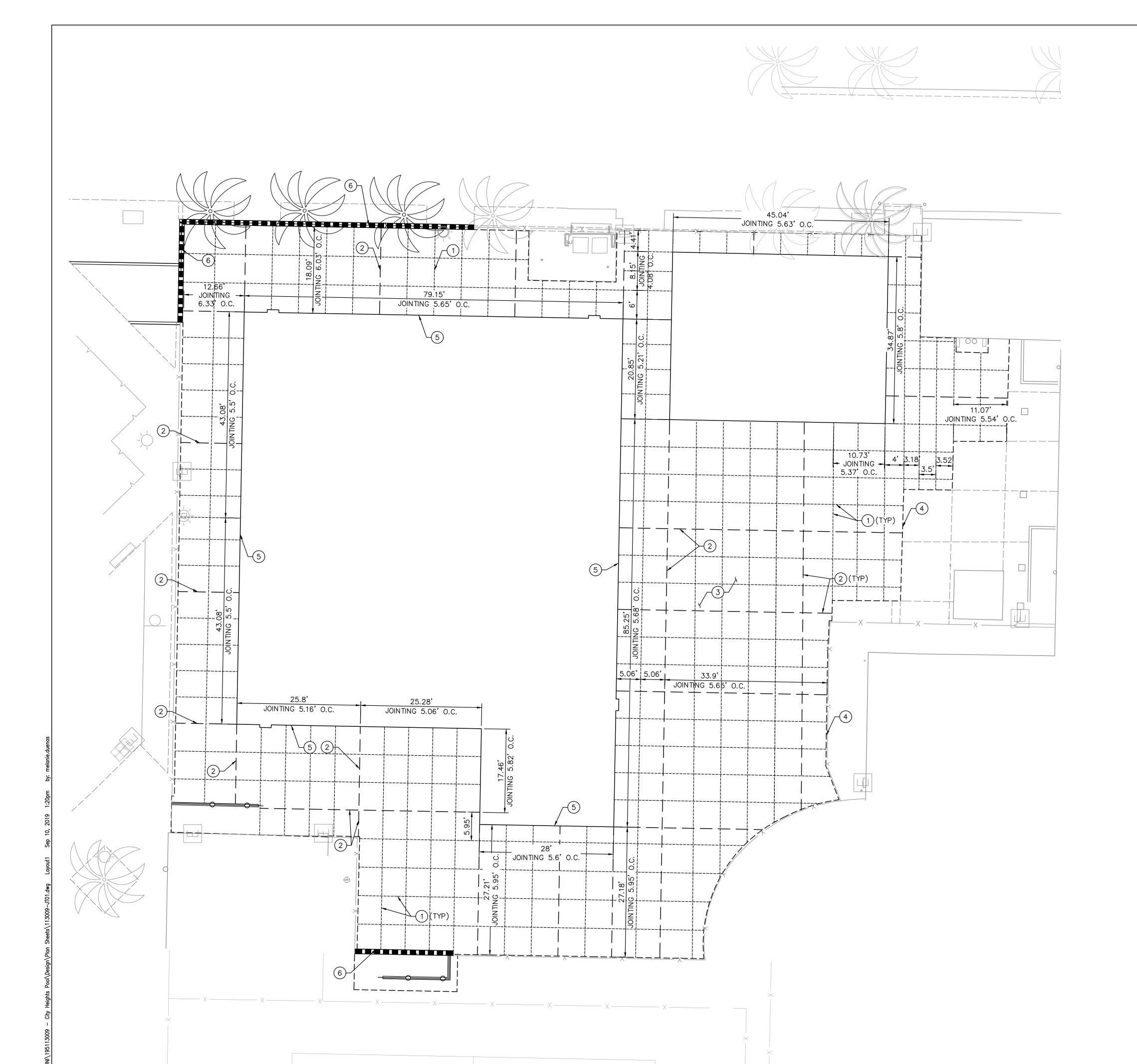
FENCE(1)

RESTROOM

GROUNDWATER (

DECK JOINTING PLAN AND DETAILS

SPEC. NO.: 1888		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 8 out of 41					
PROFESS/ONAL	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	ah_	08/1	9/2019 403		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO	
MEGAN R. ULERY R. No. 73385	DESCRIPTION	BY	APPROVED Pata ammlah	DATE	FILMED		
THE OF CALLEGRA						1850-6297 ccs83 coordinate	
CONTRACTOR			DATE STARTED DATE COMPLETED			41287- 8 -D	



September 17, 2019 City Heights Pool Reconstruction

<u>LEGEND</u>

EXPANSION JOINT

CONTRACTION JOINT

RETAINING WALL

SAWCUT

JOINTING PLAN NOTES

- 1) CONSTRUCT CONTRACTION JOINT PER STRUCTURAL DETAIL 5 ON SHEET S-002
- 2 CONSTRUCT DOWELED EXPANSION JOINT PER STRUCTURAL DETAIL 5 ON SHEET S-002
- 3 CONSTRUCT CONCRETE SLAB POOL DECK PER STRUCTURAL DETAIL 4 ON SHEET S-002
- (4) CONNECT TO EXIST POOL DECK PER STRUCTURAL DETAIL 6 ON SHEET S-501
- 5 CONNECT TO POOL SIDE WALL PER STRUCTURAL DETAIL 2 ON SHEET S-501
- 6 CONSTRUCT RETAINING WALL WITH 12' TALL CHAIN LINK FENCE PER STRUCTURAL DETAIL 1 ON SHEET S-501

GRAPHIC SCALE IN FEET
5 10 20

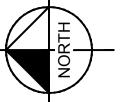
e 10 of 18

September 17, 2019 City Heights Pool Reconstruction

LEGEND

■■■ RETAINING WALL

--- SAWCUT ---- GRADE BREAK



CHECK SUBMITTAL C-006

RECONSTRUCTION

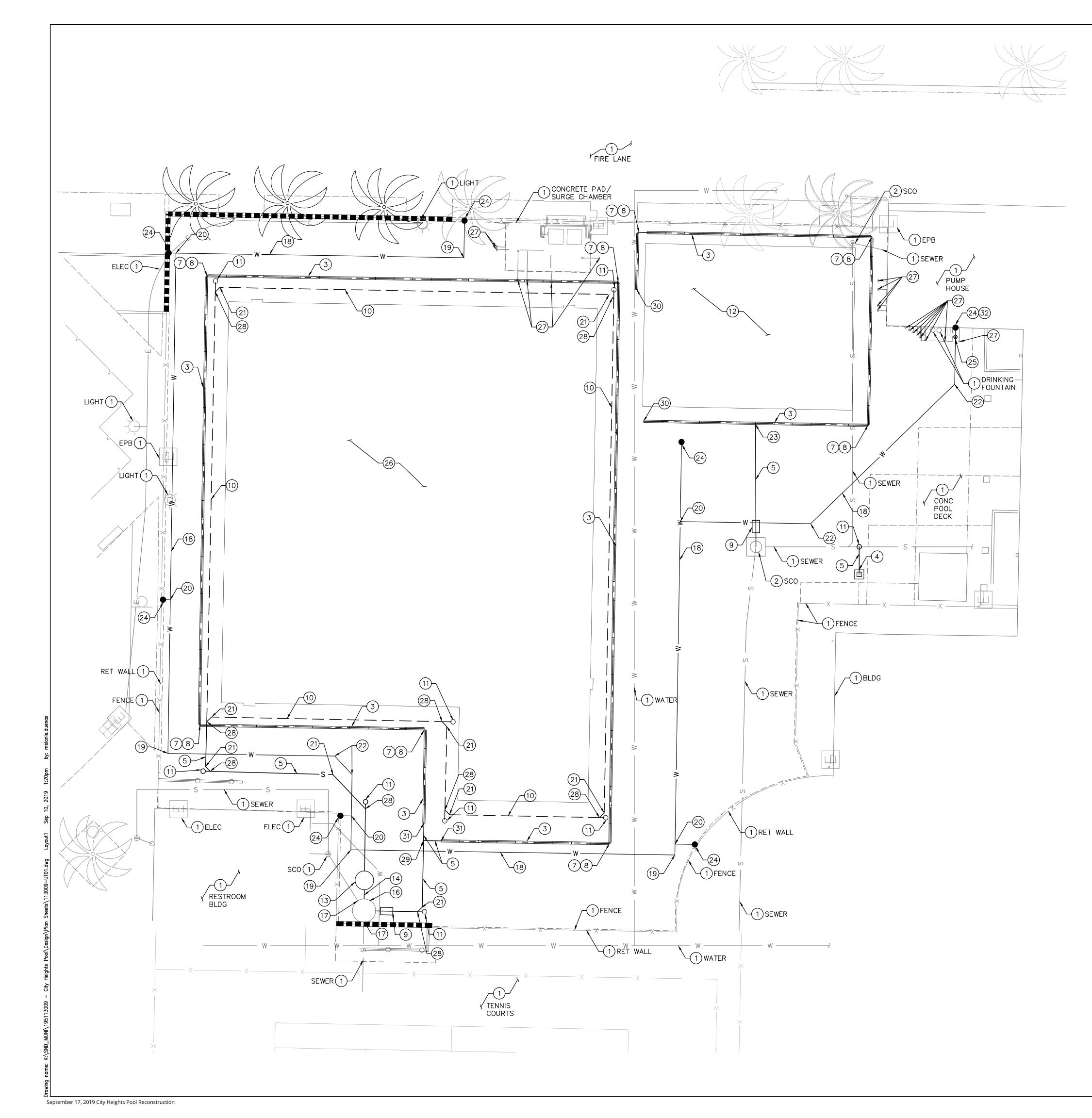
HEIGHTS

CITY HEIGHTS POOL RECONSTRUCTION

DECK GRADING PLAN

SPEC. NO.: 1888		BLIC WORK	OIEGO, CALIFO KS DEPARTMENT of 41	RNIA		WBS <u>B-19068</u>
PROFESS/ONAL CELL	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME			19/2019 403		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
S MEGAN R. ULERY No. 73385	DESCRIPTION	BY	APPROVED Pata ammlah	DATE	FILMED	PROJECT ENGINEER
						CCS27 COORDINATE
OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED DATE COMPLETED			41287- 9 -D

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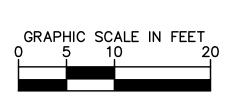


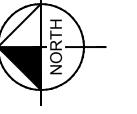
UTILITY CONSTRUCTION NOTES

- 1) PROTECT IN PLACE
- 2 ADJUST TO GRADE
- (3) CONSTRUCT 6" WIDE SLOT DRAIN AND GRATE PER NDS DURASLOPE (OR APPROVED EQUAL). GRATE TO BE NDS MODEL DS-670, COLOR: LIGHT GRAY. SEE STORM DRAIN DATA TABLE ON SHEET C-008 FOR NDS DURASLOPE CHANNEL DRAIN SECTIONS
- 4) INSTALL 12"x12" BROOKS BOX AREA DRAIN (OR PREAPPROVED
- 5) INSTALL 4" SCH 40 PVC STORM DRAIN (TO SEWER MAIN)
- 7 INSTALL NDS UNIVERSAL END OUTLET, NDS MODEL: DS-227 (2
- 8 INSTALL 4" 90 DEGREE PVC ELBOW
- 9) INSTALL 4" BACKWATER DEVICE PER SDPWC SDS-104
- 10 INSTALL 4" PERFORATED SCH 40 PVC UNDERDRAIN (PERFORATIONS FACING DOWN) PER DETAIL B ON SHEET C-001
- (11) INSTALL 4" CLEANOUT PER SDPWC SDS-103 12) INSTALL CHILDREN'S POOL PLUMBING AND RIM GUTTER PER AQUATIC DESIGN PLANS
- (13) INSTALL GROUNDWATER PUMP STATION: DUPLEX 4' DIAMETER WET WELL, Q=25 GPM, TDH=25' (OR PREAPPROVED EQUAL). SEE SHEET C-009 FOR GROUNDWATER PUMP DETAILS.
- (14) INSTALL 3" SCH 80 PVC SEWER FORCE MAIN (GROUNDWATER)
- (16) CONSTRUCT SEWER MANHOLE PER SDPWC SDS-107
- (17) CONNECT EXISTING SEWER TO PROP SEWER MANHOLE
- (18) INSTALL 1" COPPER, TYPE L
- (19) INSTALL 1"~ 90 DEGREE FITTING
- 20 INSTALL 1" TEE
- 21) INSTALL 4"~ 45 DEGREE FITTING
- 22) INSTALL 1"~ 45 DEGREE FITTING
- (23) INSTALL NDS BOTTOM OUTLET ADAPTER, NDS MODEL: DS-126
- 24) INSTALL HOSE BIB WITH LOCKING KEY AND VACUUM BREAKER (RISER PIPE TO BE GALVANIZED STEEL OR BRASS)
- 25) 1" WATER VALVE
- (26) INSTALL POOL PLUMBING AND RIM GUTTER PER AQUATIC DESIGN PLANS
- (27) UTILITY POINT OF CONNECTION. SEE AQUATIC DESIGN PLANS
- 28) INSTALL 4" PVC 45 DEGREE WYE
- 29 INSTALL 4" TEE
- (30) INSTALL NDS UNIVERSAL END CAP, NDS MODEL: DS-224
- (31) INSTALL NDS UNIVERSAL END OUTLET, NDS MODEL: DS-227
- 32 CONNECT TO EXISTING WATER SERVICE AT EXISTING DRINKING FOUNTAIN

NOTES

- 1. ALL DECK DRAINAGE IS CONVEYED TO THE SEWER SYSTEM.
- 2. ALL METAL UTILITY COVERS SHALL BE CLEANED AND COATED WITH A RUST INHIBITOR TO THE SATISFACTION OF THE RESIDENT ENGINEER.





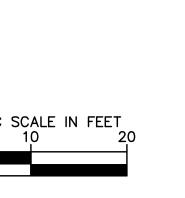
C-007

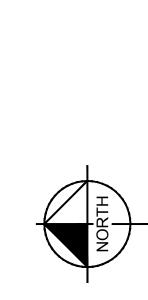
CITY HEIGHTS POOL RECONSTRUCTION

UTILITY PLAN

SPEC. NO.: 1888		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 10 out of 41				
PROFESS/ONAL CE	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	ch_		9/2019 103		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY 系 No. 73385 宏	DESCRIPTION	BY	APPROVED Paita ammlah	DATE	FILMED	
THE OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED DATE COMPLETED			41287— 10 —D

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WATER LINE DATA TABLE							
XX	LENGTH	BEARING	DESCRIPTION				
1	7.97'	N89°04'39.56"W	1" COPPER				
2	61.80'	N0°55'20.44"E	1" COPPER				
3	107.42	N89°04'39.56"W	1" COPPER				
4	35.79'	S0°55'20.44"W	1" COPPER				
5	5.44'	S46°30'57.15"W	1" COPPER				
6	16.17'	N89°04'39.56"W	1" COPPER				
7	69.54	S0°55'20.44"W	1" COPPER				
8	4.25'	S0°55'20.44"W	1" COPPER				
9	71.59'	S89°04'39.56"E	1" COPPER				
10	17.09'	S89°04'39.56"E	1" COPPER				
11	28.00'	S0°55'20.44"W	1" COPPER				
12	43.02'	S44°04'39.56"E	1" COPPER				
13	12.18'	S89°04'39.56"E	1" COPPER				
14	1.57'	S0°55'20.44"W	1" COPPER				
15	1.57'	S0°55'20.44"W	1" COPPER				
16	2.36'	N0°55'20.44"E	1" COPPER				

								_
NOTE:	1" COF	PER SH	NWOH	ABOVE	SHALL	BE	СО	PPER
TYPE '	'L' WATE	ER LINE	AND	SHALL	CONFO	RM	TO	THE
CITY C	OF SAN	DIEGO'S	S FAC	ILITY GL	JIDELINE	S.		

	SEWER LINE DATA TABLE								
XX	LENGTH	BEARING	DESCRIPTION						
17	9.66'	N88°29'02.85"W	4" PVC						
18	1.41'	S46°30'57.15"W	4" PVC						
19	26.38'	S1°30'57.15"W	4" PVC						
20	10.13'	S46°30'57.15"W	4" PVC						
21	13.35'	N89°10'59.94"W	4" PVC						
22	2.00'	N89°10'59.94"W	3" PVC FORCE MAIN						

L	UNDERDRAIN DATA TABLE								
XX	LENGTH	BEARING	DESCRIPTION						
42	1.41'	S44°02'18.10"E	4" PERF PVC						
43	25.14'	S1°03'00.57"W	4" PERF PVC						
44	14.58'	S1°03'00.73"W	4" PERF PVC						
45	43.82'	S1°03'00.73"W	4" PERF PVC						
46	1.42'	S46°04'18.31"W	4" PERF PVC						
47	110.32'	N88°55'57.01"W	4" PERF PVC						
48	1.41'	N44°02'18.10"W	4" PERF PVC						
49	32.20'	N1°06'07.55"E	4" PERF PVC						
50	1.42'	N45°57'41.90"E	4" PERF PVC						
51	17.95'	S88°44'46.14"E	4" PERF PVC						
52	1.42'	N45°45'28.33"E	4" PERF PVC						
53	9.99'	N1°09'08.53"E	4" PERF PVC						
54	13.68'	N1°09'08.79"E	4" PERF PVC						
55	25.82'	N1°09'08.79"E	4" PERF PVC						
56	1.41'	N43°50'51.21"W	4" PERF PVC						
57	92.25'	S88°52'11.22"E	4" PERF PVC						

			STORM DRA	AIN DATA TABLE
$\langle X \rangle$	LENGTH	BEARING	DESCRIPTION	PART NO.
23	48.25	N0°54'16.95"E	TRENCH DRAIN	DS-097N, 098, 099, 100, 100N
24	96.50'	S89°05'43.05"E	TRENCH DRAIN	DS-091N, 092, 093, 094, 094N, 095, 096, 097, 097N
25	44.25'	N0°54'16.95"E	TRENCH DRAIN	DS-090N, 091, 091N
26	44.25	S0°54'16.95"W	TRENCH DRAIN	DS-090N, 091, 091N
27	120.50'	N89°05'43.05"W	TRENCH DRAIN	DS-091N, 092, 093, 094, 094N, 095, 096, 097, 097N
28	36.25	N0°54'16.95"E	TRENCH DRAIN	DS-097N, 098, 099, 100, 100N
29	20.00'	S89°05'43.05"E	TRENCH DRAIN	DS-100N, 101, 102, 103, 103N
30	12.00'	S88°56'01.15"E	TRENCH DRAIN	DS-090N, 091, 091N
31	48.25	S1°03'58.85"W	TRENCH DRAIN	DS-091N, 092, 093, 094, 094N
32	40.50'	N88°56'01.15"W	TRENCH DRAIN	DS-091N, 092, 093
33	24.25'	S1°03'58.85"W	TRENCH DRAIN	DS-090N, 091, 091N
34	24.00'	S1°03'58.85"W	TRENCH DRAIN	DS-097N, 098, 099, 100, 100N
35	5.42'	N90°00'00.00"W	4" PVC	N/A
36	3.74'	S88*54'10.48"E	4" PVC	N/A
37	3.76'	N1°05'49.52"E	4" PVC	N/A
38	14.30'	N88*54'10.48"W	4" PVC	N/A
39	1.41'	N43*54'10.48"W	4" PVC	N/A
40	9.12'	N1°05'49.52"E	4" PVC	N/A
41	26.52	N89°46'56.68"E	4" PVC	N/A

UTILITY CONTROL PLAN

SPEC. NO.: 1888	CITY OF PUB	WBS <u>B-19068</u>				
PROFESS/ONAL	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME		08/19/2019 DATE C85403 RCE#			SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY No. 73385	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
出 No. 73385 第			Paita ammlah			CCS27 COORDINATE
TIE OF CALIFORNI						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED DATE COMPLETED			41287- 11 -D

September 17, 2019 City Heights Pool Reconstruction

. 1 42

_TG: 361.73 FL: 361.37

^{_}INV: 348.56

N: 1852490.19— E: 6300231.83

N: 1852485.01– E: 6300219.96 INV: 346.86

N: 1852482.76 E: 6300211.40 – INV: 357.50

N: 1852485.09 E: 6300213.96 INV: 358.50

└─INV: 348.84

TG: 361.73 FL: 361.40

/–INV: 353.47

TG: 361.69_/ (37) (28) (28)

_TG: 361.69 FL: 361.07

TG: 361.70_/ FL: 361.17

TG: 361.71 FL: 361.10

LINV: 354.13

N: 1852527.06— E: 6300352.64

N: 1852528.25 E: 6300278.22

N: 1852463.56 E: 6300359.59

TG: 361.82_ FL: 361.46 \

TG: 361.75 FL: 361.38 46

INV: 355.27_

N: 1852426.60 E: 6300344.81 TG: 361.82

N: 1852425.10 E: 6300316.53 TG: 361.82 FL: 361.29

N: 1852416.98 E: 6300312.06

N: 1852417.26 E: 6300294.98

N: 1852414.12 E: 6300225.67

FL: 361.49

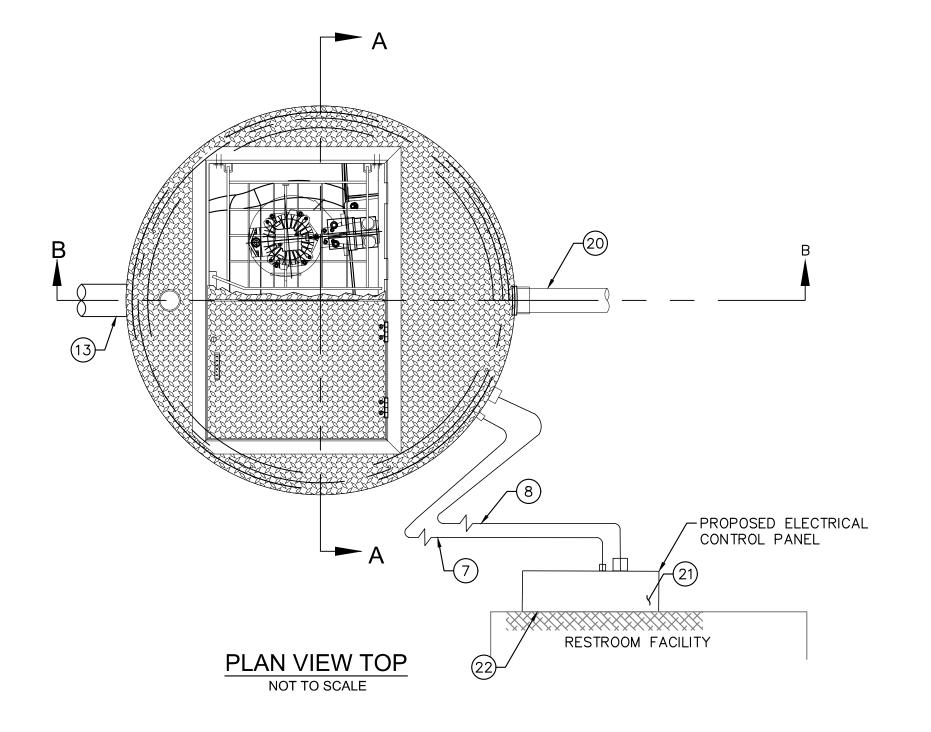
TG: 361.81_ FL: 361.36

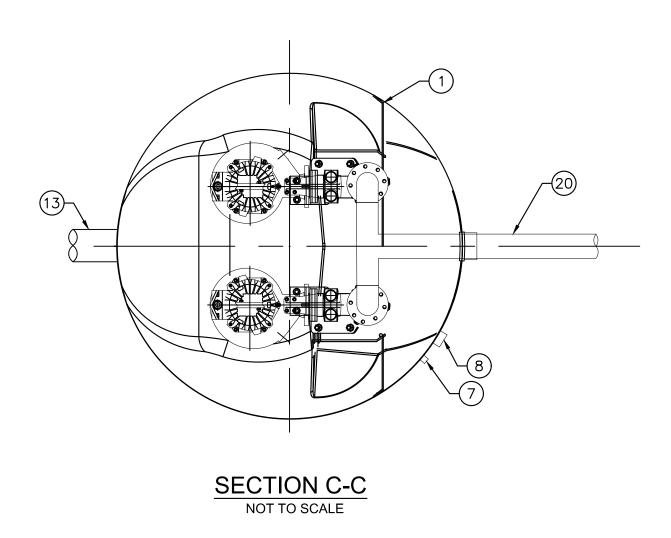
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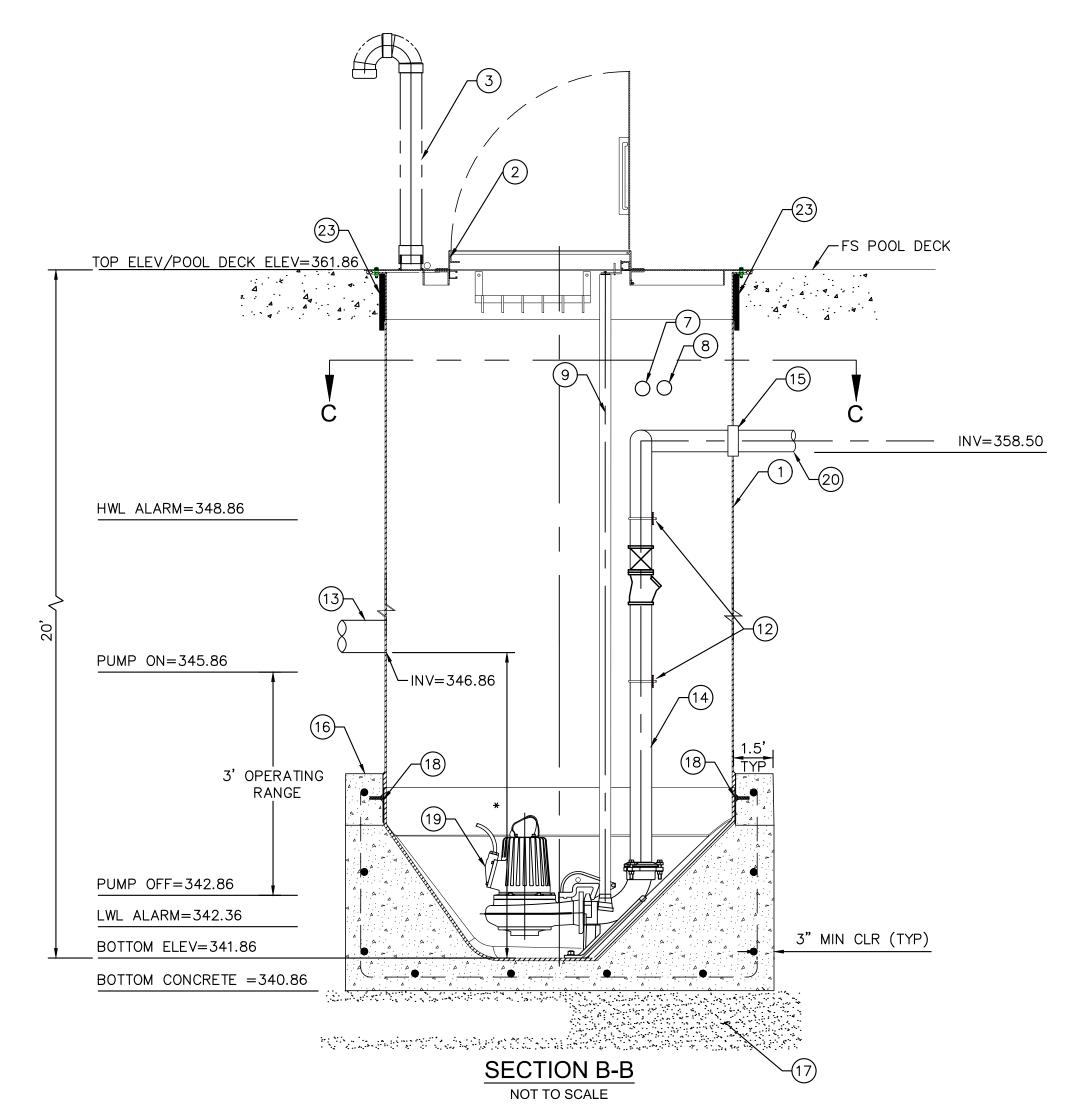
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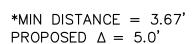
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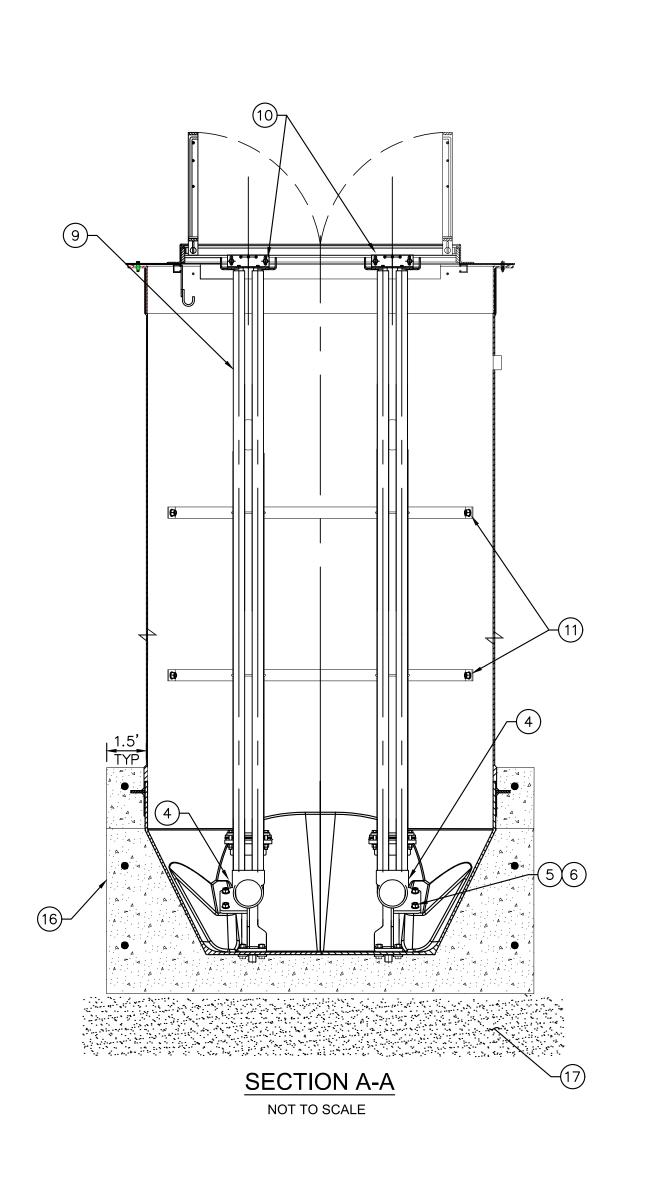
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GROUNDWATER PUMP CONSTRUCTION NOTES

- 1) BASIN CYLINDER ASSEMBLY, 4' DIAMETER.
- (2) COVER, 4' DIAMETER WITH HATCH AND FALL PROTECTION GRATE.
- (3) VENT PIPE 4"-GOOSE NECK STYLE.
- (4) DISCHARGE CONNECTION, 3".
- (5) NUT, 3/4-10, 216 SST.
- 6 WASHER, 13/16 ID,1-1/2 OD, GENERAL PURPOSE, 316 SST.
- 7) TO PUMP CONTROL PANEL PER E-002, LEVEL SENSOR.
- (8) TO PUMP CONTROL PANEL, PUMP POWER.
- 9) GUIDE BAR, 2", 316 SST
- 10 UPPER GUIDE BAR KIT, 2".
- (11) BRACING, DISCHARGE PIPE.
- (12) U-BOLT PER MANUFACTURER.
- (13) 4" PIPE CONNECTION-INFLUENT.

- (14) PIPE, 3" SCH. 80, 316 STAINLESS STEEL.
- (15) PIPING KIT.
- (16) CONCRETE BASE W/ 6 #5 REINFORCEMENT. HORIZONTAL AROUND WET WELL AND #5'S

AT 12"O.C. EACH WAY VERTICAL AND IN

- (17) 24" OF 3/4" CRUSHED ROCK WRAPPED IN MIRAFI 110N FILTER FABRIC. FOUNDATION PREP PER MANUFACTURER RECOMMENDATIONS AND GEOTECH REPORT.
- (18) ANTI-FLOTATION FLANGE
- (19) 2 FLYGT NON-CLOG SUBMERSIBLE PUMPS Q=25 GPM AT 25' TDH EACH PUMP W/ INTERNAL CHECK VALVES AND FORCE SHUTOFF VALVE. 2.2 HP 3 PHASE 208 V.
- (20) 3" SCH 80 PVC FORCE MAIN (RESTRAINED).
- (21) PUMP CONTROL PANEL-LOCATION TO BE DETERMINED IN FIELD.
- 22) PUMP POWER SUPPLY TO ELECTRICAL ROOM IN BUILDING PER E-002.
- (23) PRE-MOLDED EXPANSION JOINT MATERIAL. EXTEND 2" BELOW BOTTOM OF POOL DECK

GENERAL NOTES

- 1. THE PUMPS WILL BE CONTROLLED BY TWO SEPARATE AND DISTINCT CONTROL SYSTEMS. THE MAIN CONTROL SYSTEM WILL HANDLE ALL NORMAL OPERATIONS. THE SECONDARY CONTROL SYSTEM WILL BE VERY SIMPLE (AND RELIABLE) AND WILL OPERATE IF THE LEVEL IN THE WET WELL RISES ABOVE THE NORMAL LEVELS. WHEN THE LEVEL STAYS IN NORMAL RANGES, THE SECONDARY CONTROL SYSTEM WILL NOT OPERATE. THE SECONDARY CONTROL SYSTEM WILL NOT PREVENT THE MAIN CONTROL SYSTEM FROM TURNING THE PUMPS ON. EACH SYSTEM WILL NOT REQUIRE ANY INPUT OR ASSISTANCE FROM THE OTHER SYSTEM.
- 2. THE MAIN CONTROL SYSTEM WILL HAVE THE FOLLOWING CHARACTERISTICS: 2.1. MEASURE THE LEVEL IN THE WET WELL.
- 2.2. TURN THE PUMPS OFF AND ON AT THE ELEVATIONS SHOWN IN THE SECTIONAL VIEWS ON THE PLANS.
- 2.3. ALTERNATE WHICH PUMP IS THE PRIMARY PUMP FOR EACH ON CYCLE
- 3. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE CONCRETE IN PRECAST CONCRETE ITEMS OR IN CAST-IN- PLACE CONCRETE SHALL BE 4,000 POUNDS PER SQUARE INCH.
- 4. WET WELL FOUNDATION PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
- 5. EXCEPT FOR THE PUMPS, PIPING, PIPING FITTINGS, ACCESS HATCHES, ELECTRICAL CONDUCTORS, AND WHERE SPECIFICALLY CALLED OUT OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL METAL HARDWARE AND MISCELLANEOUS METAL PIECES THAT WILL BE INSIDE THE WET WELL OR VALVE VAULT SHALL BE FABRICATED FROM GRADE 316 STAINLESS STEEL. THIS INCLUDES, BUT IS NOT LIMITED TO, GUIDE RAILS, GUIDE RAIL BRACKETS, CHAINS, CABLE RACKS, BOLTS, NUTS AND WASHERS. WHERE A PARTICULAR MODEL OR BRAND IS CALLED OUT IN THE CONTRACT DOCUMENTS, AND THE MANUFACTURER DOES NOT OFFER GRADE 316 STAINLESS STEEL AS AN OPTION, OTHER GRADES OF STAINLESS STEEL MAY BE ACCEPTABLE UPON APPROVAL BY ENGINEER OF
- 6. THE PUMPS SHALL BE SUPPLIED WITH POWER CABLES OF ADEQUATE LENGTH TO ALLOW THE PUMPS TO BE CONNECTED TO THE CONTROL PEDESTAL WITHOUT SPLICES.
- 7. CONTRACTOR IS RESPONSIBLE FOR DEWATERING TO FACILITATE CONSTRUCTION ON A FIRM, NON-YIELDING FOUNDATION.
- 8. CONTRACTOR SHALL REMOVE AND RESTORE AREAS IMPACTED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION.

C-009

CITY HEIGHTS POOL RECONSTRUCTION

GROUNDWATER PUMP DETAILS

SPEC. NO.: 1888	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 12 out of 41					WBS <u>B-19068</u>
PROFESS/ONAL	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	lah_		9/2019 403		SUBMITTED BY: PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY No. 73385	DESCRIPTION	BY	APPROVED Pieta ammlah	DATE	FILMED	
Filling Might						CCS27 COORDINATE
OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED DATE COMPLETED	1		41287- 12 -D

September 17, 2019 City Heights Pool Reconstruction

CITY HEIGHTS POOL RECONSTRUCTION

WATER POLLUTION CONTROL PLAN

SPEC. NO.: 1888	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 13 out of 41					WBS <u>B-19068</u>
PROFESS/ONAL CIE	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	al-		9/2019		PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY No. 73385	DESCRIPTION	BY	APPROVED Posta ammlah	DATE	FILMED	
A Light Mass			THE OF WINDER			CCS27 COORDINATE
OF CALIFORN						1850-6297 ccs83 coordinate
CONTRACTORINSPECTOR		, '	DATE STARTED DATE COMPLETED			41287- 13 -D

LEGEND

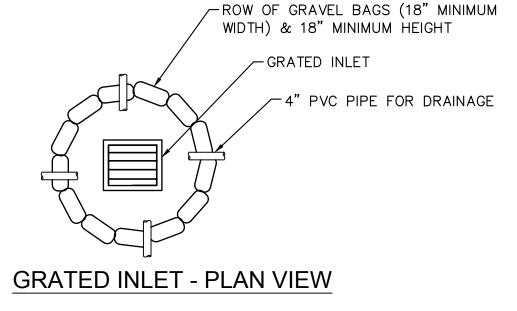
GRAVEL BAG INLET PROTECTION

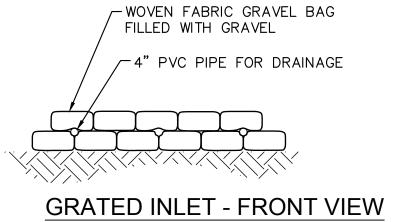
GRAVEL BAGS

FR FIBER ROLL

WATER POLLUTION CONTROL PLAN NOTES

- 1) INSTALL INLET PROTECTION PER DETAIL A ON SHEET C-011
- (2) INSTALL TEMPORARY FIBER ROLLS PER DETAIL B ON SHEET C-011



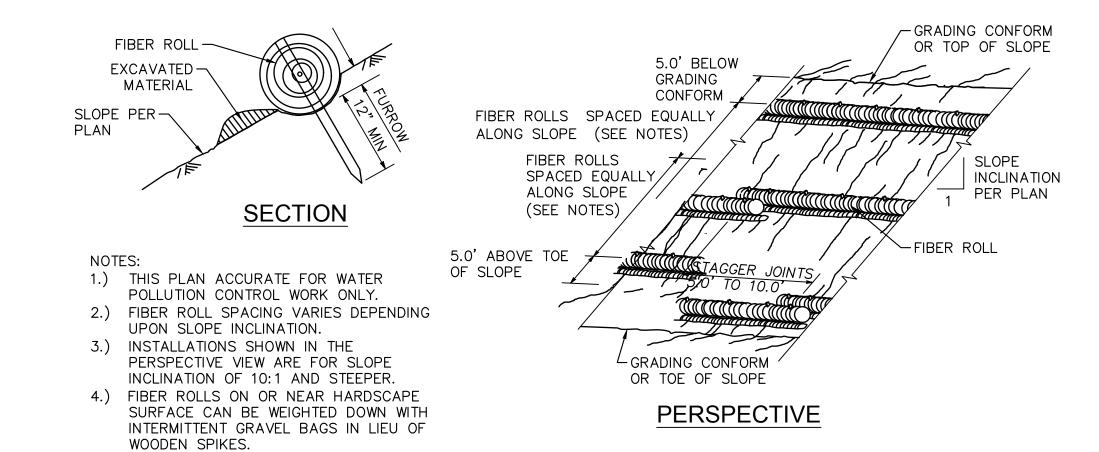


NOTES:

NOTES:

- GRAVEL BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY
- 2. GRAVEL BAG SHALL BE FILLED WITH 3/4" ROCK OR 1/4" PEA GRAVEL.
- PLACE SEVERAL LAYERS OF GRAVEL BAGS (12" MINIMUM HIGH)
- OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.
- PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE.
- PLACE FILTER FABRIC OVER WIRE MESH.
- 7. PLACE 3/4" TO 3" GRAVEL OVER THE FILTER FABRIC/WIRE MESH (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).



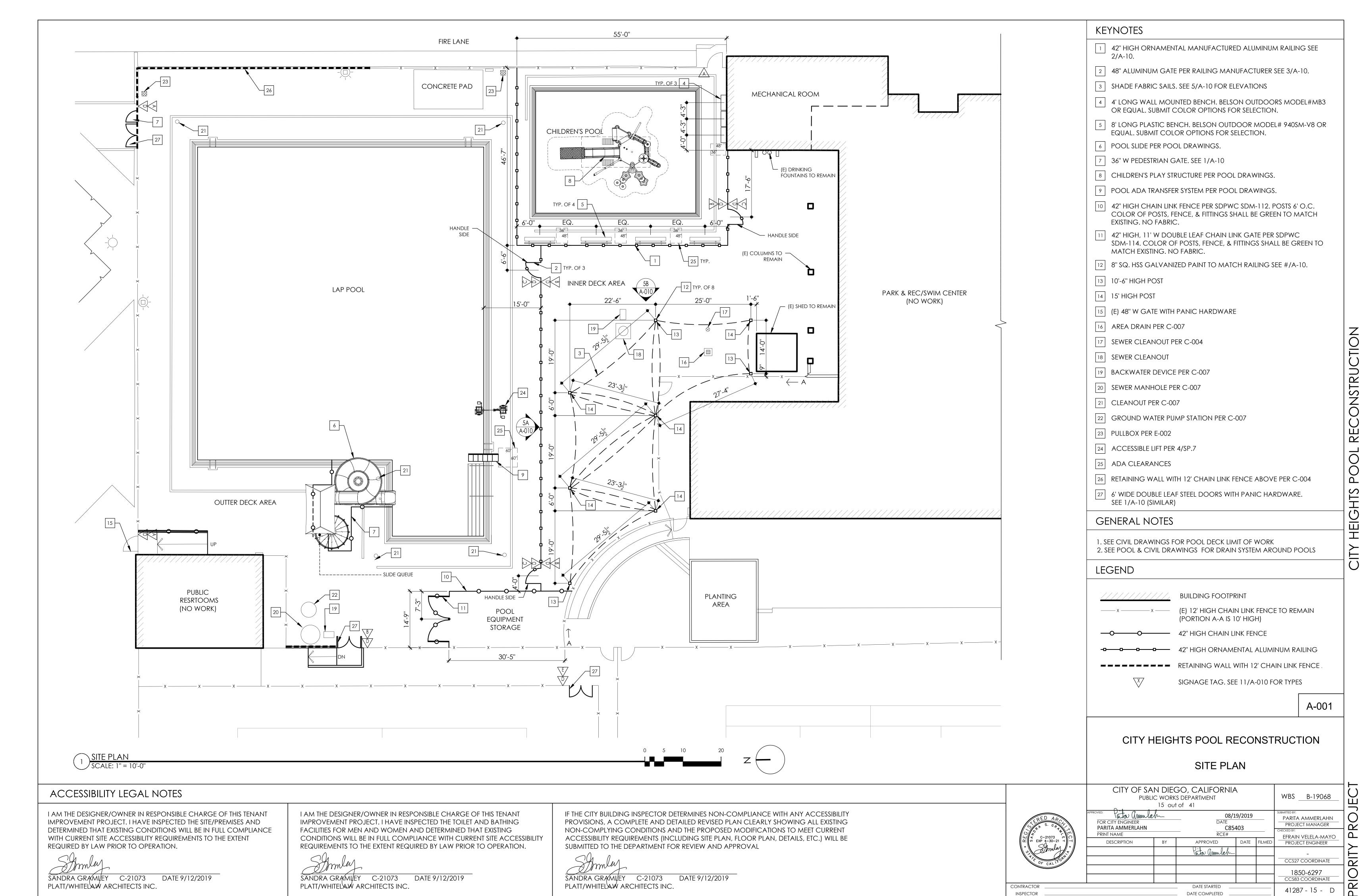


TEMPORARY FIBER ROLL NOT TO SCALE

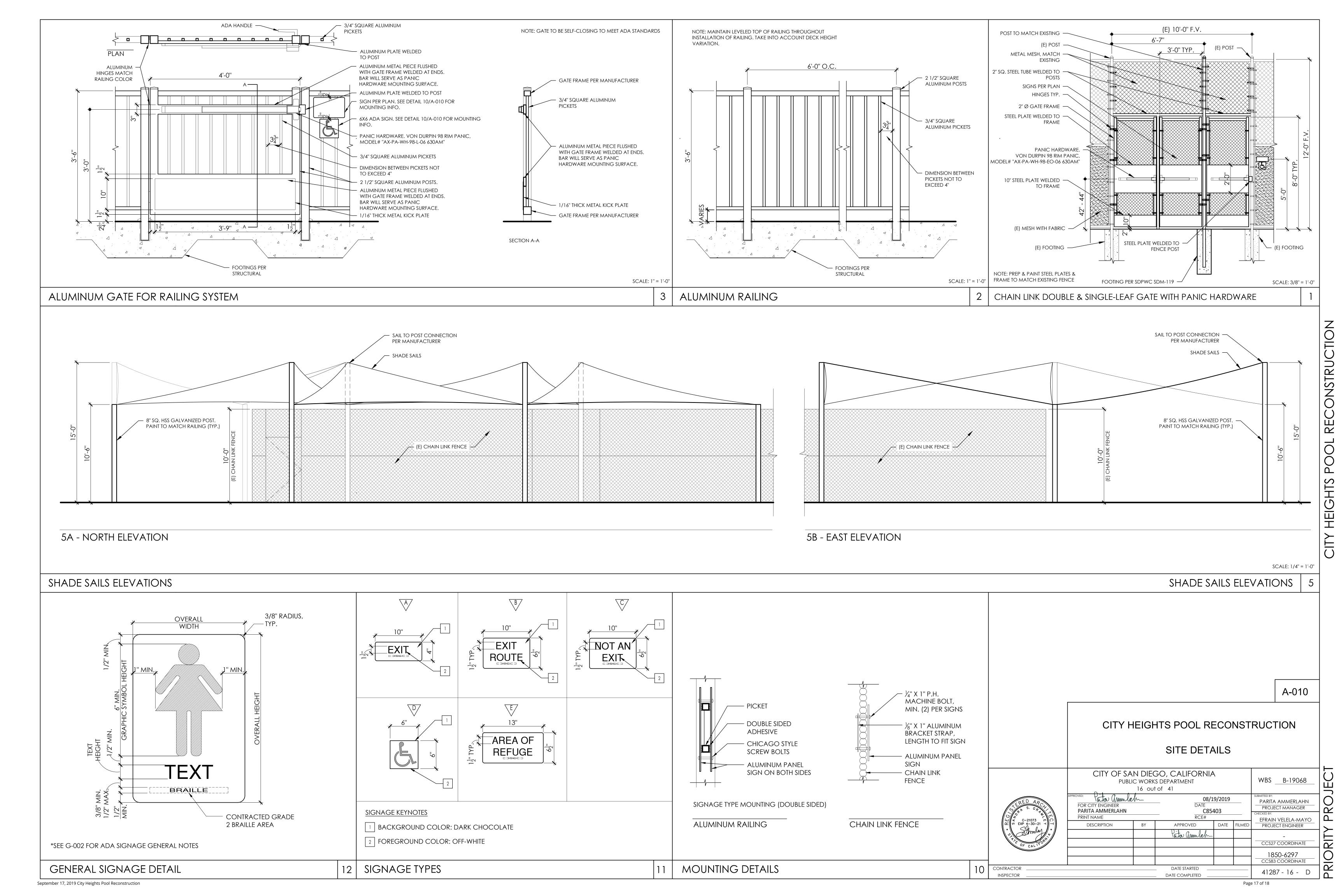
C-011

CITY HEIGHTS POOL RECONSTRUCTION WATER POLLUTION CONTROL NOTES AND **DETAILS**

	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 14 out of 41					WBS <u>B-19068</u>
PROFESS/ONAL FEE	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME		DATE	9/2019 -85403		PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
MEGAN R. ULERY No. 73385 당	DESCRIPTION	BY	APPROVED	DATE	FILMED	
PIE OF CALIFORNIA						1850-6297 ccs83 coordinate
CONTRACTOR			DATE STARTED _ DATE COMPLETED _			41287- 14 -D



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- ALL WORK AND MATERIALS SHOWN ON THESE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE DESIGN PROFESSIONAL OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES FOUND.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO ARCHITECTURAL APPURTENANCES OR MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION.
- THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE METHODS OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW STRUCTURES DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING, ET CETERA FOR ALL CONSTRUCTION PHASE LOADS.

DESIGN CRITERIA

1.	DES	SIGN BUILDING CODE	2016 CALIFORNIA BUILDING CODE		
2.	RISI	< CATEGORY			
3.	WIN	ID DESIGN CRITERIA:			
	a.	BASIC WIND SPEED, V	110 MPH		
	b.	WIND EXPOSURE	C		
4.	SEIS	SMIC DESIGN CRITERIA:			
	a.	SEISMIC IMPORTANCE FACTOR, Ie	1.0		
	b.	SPECTRAL RESPONSE PARAMETER, S _S	0.998		

d. SITE CLASS

c. SPECTRAL RESPONSE PARAMETER, S

f. DESIGN 1-SEC ACCELERATION, Sp.

g. SEISMIC DESIGN CATEGORY

e. DESIGN SHORT PERIOD ACCELERATION, Sps.

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS FOR "SHORING AND BRACING DRAWINGS" IN SECTION 6705 OF THE CALIFORNIA LABOR CODE. THE CONTRACTOR, PRIOR TO BEGINNING ANY TRENCH OR STRUCTURE EXCAVATION 5 FEET DEEP OR OVER SHALL SUBMIT TO THE OWNER AND SHALL BE IN POSSESSION OF THE OWNER'S WRITTEN ACCEPTANCE OF THE CONTRACTOR'S DETAILED PLAN SHOWING DESIGN OF ALL SHORING, BRACING, SLOPING OF THE SIDES OF EXCAVATION, OR OTHER PROVISIONS FOR WORKER PROTECTION AGAINST THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCHES OR STRUCTURE EXCAVATION, SHORING DESIGN DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL PROVIDE SHORING ADEQUATE FOR IMPOSED LIVE AND DEAD LOADS, INCLUDING EQUIPMENT, STRESSES, LATERAL STABILITY, AND OTHER SAFETY FACTORS DURING CONSTRUCTION.

0.380

0.732

0.416

THE FOLLOWING OSHA SOIL CLASSIFICATIONS ARE RECOMMENDED:

TILL .	TIFE C
VERY OLD PARALIC DEPOSITS	TYPE B

UPON MAKING THE EXCAVATIONS. THE SOIL CLASSIFICATIONS AND EXCAVATION PERFORMANCE SHOULD BE EVALUATED IN THE FIELD BY THE GEOTECHNICAL ENGINEERING CONSULTANT IN ACCORDANCE WITH OSHA REGULATIONS.

- THE SAFETY OF THE EXCAVATION AND DESIGN AND CONSTRUCTION OF THE SHORING SYSTEM SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF THE SSPWC.
- PRIOR TO COMMENCEMENT OF THE EXCAVATION WORK, IT IS RECOMMENDED THAT ALL EXISTING STRUCTURES WITHIN A HORIZONTAL DISTANCE THAT IS AT LEAST TWO TIMES THE DEPTH OF THE EXCAVATION BE INSPECTED TO DOCUMENT THEIR EXISTING CONDITIONS, DOCUMENTATION SHOULD INCLUDE PHOTOGRAPHS OF THE EXISTING STRUCTURES AND SITE CONDITIONS AS WELL AS FIELD SURVEYS OF THE EXTERIOR PAVEMENTS.
- DURING THE COURSE OF THE CONSTRUCTION, DEFLECTION OF THE SHORING SYSTEM SHOULD BE REGULARLY MONITORED, IN ADDITION, THE STRUCTURES SHOULD BE PERIODICALLY INSPECTED FOR SIGNS OF DISTRESS, CONTINUED FIELD SURVEYS SHOULD BE PERFORMED TO CHECK AND DOCUMENT ANY MOVEMENT OF SLABS AND PAVEMENTS RESULTING FROM CONSTRUCTION ACTIVITIES, IN THE EVENT THAT DISTRESS OR SETTLEMENT IS NOTED, AN INVESTIGATION SHOULD BE PERFORMED AND APPROPRIATE CORRECTIVE MEASURES SHOULD BE TAKEN TO PROTECT THE STRUCTURES FROM ANY FURTHER DISTRESS/MOVEMENT.
- LATERAL EARTH PRESSURES TEMPORARY SHORING SHOULD BE DESIGNED TO RESIST THE PRESSURE EXERTED BY THE RETAINED SOILS AND ANY ADDITIONAL LATERAL FORCES DUE TO LOADS PLACED NEAR THE TOP OF THE EXCAVATION. FOR DESIGN OF BRACED SHORINGS SUPPORTING FILL MATERIALS AND TOPSOIL THE RECOMMENDED LATERAL EARTH PRESSURE SHOULD BE 55 PSF/FT. FOR BRACED SHORING SUPPORTING BEDROCK, THE RECOMMENDED LATERAL EARTH PRESSURES MAY BE REDUCED TO 40 PSF/FT. ANY SURCHARGE LOADS WOULD IMPOSE UNIFORM LATERAL PRESSURE OF 0.3Q, WHERE "Q" EQUALS THE UNIFORM SURCHARGE PRESSURE. THE SURCHARGE PRESSURE SHOULD BE APPLIED STARTING AT A DEPTH EQUAL TO THE DISTANCE OF THE SURCHARGE LOAD FROM THE TOP OF THE EXCAVATION.

RECOMMENDED LATERAL EARTH PRESSURES HAVE BEEN DEVELOPED BASED ON SEVERAL ASSUMPTIONS. AS FOLLOWS: SHORED EARTH IS LEVEL AT THE SURFACE; THERE ARE NO HYDROSTATIC PRESSURES ABOVE THE BOTTOM OF THE EXCAVATION; AND THE SHORING SYSTEM IS TEMPORARY IN NATURE.

- RESISTANCE TO LATERAL LOADS WILL BE PROVIDED BY PASSIVE SOIL RESISTANCE. ALLOWABLE PASSIVE RESISTANCE PRESENTED UNDER THE HEADING "FOUNDATION" ON THIS SHEET MAY ALSO BE USED TO CALCULATE LATERAL BEARING CAPACITY FOR DESIGN OF TEMPORARY SHORING.
- DESIGN OF THE STRUCTURES SHOWN ON THE DRAWINGS DOES NOT INCLUDE ANY ALLOWANCE OR CONSIDERATION FOR IMPOSED CONSTRUCTION LOADS.
- THE CONTRACTOR SHALL NOT REMOVE SHORING UNTIL 21 DAYS AFTER CONCRETE PLACEMENT, OR CONCRETE HAS ATTAINED AT LEAST 90 PERCENT OF THE 28 DAY DESIGN COMPRESSIVE STRENGTH AS DEMONSTRATED BY CONTROL TEST CYLINDERS, BUT NOT SOONER THAN 14 DAYS.

<u>FOUNDATION</u>

GEOTECHNICAL EVALUATION FOR CITY HEIGHTS POOL, 4380 LANDIS STREET, SAN DIEGO, CALIFORNIA, PREPARED BY NINYO & MOORE. JOB NUMBER 108716001, DATED FEBRUARY 12, 2019. FOUNDATION DESIGN CRITERIA ARE AS FOLLOWS:

55 PSF/FT

79 PSF/FT

18 PSF/FT

ALLOWABLE SOIL BEARING PRESSURE:	3500 PSF (SHORT-TERM LOADING INCREASE PERMITTED)

LATERAL EARTH PRESSURES FOR YIELDING RETAINING WA	LLS:
ALLOWABLE PASSIVE RESISTANCE (LEVEL BACKFILL):	350 PSF/FT
ALLOWABLE PASSIVE RESISTANCE (2:1 BACKFILL):	150 PSF/FT
ACTIVE SOIL PRESSURE (LEVEL BACKFILL):	35 PSF/FT
ACTIVE SOIL PRESSURE (2:1 BACKFILL):	55 PSF/FT
DYNAMIC SOIL PRESSURE:	18 PSF/FT
LATERAL EARTH PRESSURES FOR RESTRAINED RETAINING	WALLS:
ALLOWABLE PASSIVE RESISTANCE (LEVEL BACKFILL):	350 PSF/FT
ALLOWABLE PASSIVE RESISTANCE (2:1 BACKFILL):	150 PSF/FT

ACTIVE SOIL PRESSURE (LEVEL BACKFILL):

ACTIVE SOIL PRESSURE (2:1 BACKFILL):

DYNAMIC SOIL PRESSURE:

REINFORCED CONCRETE

- 1. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 4,500 PSI, UNLESS OTHERWISE NOTED.
- 2. MIX DESIGN REQUIREMENTS: CEMENT SHALL BE TYPE II/V; MAXIMUM SLUMP SHALL BE 4" (MAXIMUM SLUMP OF 8" SHALL BE PERMITTED AFTER INTRODUCTION OF A WATER-REDUCING ADMIXTURE); MAXIMUM AGGREGATE SIZE SHALL BE 1"; MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
- 3. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 4. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL COLD JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING CONCRETE.
- 6. CONSTRUCTION JOINTS IN CONCRETE INDICATED WITH A ROUGH, CLEAN SURFACE SHALL HAVE A 1/4" MINIMUM AMPLITUDE.
- 7. CURING: CONCRETE SHALL BE MAINTAINED AT A MINIMUM TEMPERATURE OF 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT. CURING SHALL BE PERFORMED IN ACCORDANCE WITH ONE OF THE METHODS PRESCRIBED IN ACI 308R.

CONCRETE MASONRY

- CONCRETE MASONRY UNITS SHALL BE TYPE I MEDIUM WEIGHT UNITS IN CONFORMANCE WITH ASTM C90, fm = 2,000 PSI.
- 2. MORTAR SHALL BE TYPE S IN CONFORMANCE WITH ASTM C270 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 1800 PSI.
- 3. GROUT SHALL CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 2000 PSI. GROUT SHALL HAVE AN ADMIXTURE TO REDUCE SHRINKAGE.
- 4. ALL CELLS SHALL BE SOLID GROUTED.
- 5. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1 1/2" BELOW THE TOP OF THE UPPERMOST UNIT.

REINFORCING STEEL

- 1. STEEL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED.
- 2. BAR LAP SPLICE LENGTHS IN CONCRETE SHALL BE 48 BAR DIAMETERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
- CONCRETE CAST AGAINST EARTH FORMED CONCRETE EXPOSED TO EARTH 2" CONCRETE EXPOSED TO WEATHER
- 4. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

STRUCTURAL STEEL

NOTED ON THE DRAWINGS.

- ANGLES, CHANNELS, PLATES, BARS AND RODS SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 2. RECTANGULAR AND ROUND TUBE SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

3. CHAIN LINK FENCE AND GATE POST PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B.

- 4. ANCHOR BOLTS SHALL BE HEADED ANCHOR BOLTS AND SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS OTHERWISE
- BOLTS SHALL CONFORM TO ASTM A325N AND SHALL BE SNUG TIGHT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 6. BOLT HOLES SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED ON THE DRAWINGS. BURNING OF BOLT HOLES SHALL NOT BE PERMITTED.
- 7. WELDING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN CONFORMANCE WITH AWS D1.1 USING E70 SERIES ELECTRODES, UNLESS OTHERWISE NOTED.
- 8. GALVANIZING, ALL STEEL SHALL BE GALVANIZED AS FOLLOWS:
- a. STEEL SECTIONS, PLATES, BARS AND RODS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123.
- b. STEEL BOLTS. NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN CONFORMANCE WITH ASTM A153.
- c. GALVANIZED COATINGS DAMAGED BY TRANSPORTING, HANDLING, CUTTING, BOLTING OR WELDING SHALL BE REPAIRED PER ASTM A780 USING ZINC-RICH PAINT FOR GALVANIZING.

<u>WATERSTOPS</u>

- PROVIDE FLAT-STRIP TYPE SERRATED PVC WATERSTOP OR EXPANSION TYPE PVC WATERSTOP AS MANUFACTURED BY SIKA GREENSTREAK PVC WATERSTOP (OR APPROVED ALTERNATE).
- 2. THE PVC WATERSTOP SHALL BE EXTRUDED FROM AN ELASTOMERIC PLASTIC MATERIAL OF WHICH THE BASIC RESIN IS A PRIME VIRGIN POLYVINYL CHLORIDE, THE PVC COMPOUND SHALL NOT CONTAIN ANY SCRAPPED OR RECLAIMED MATERIAL OR PIGMENT WHATSOEVER.
- PROVIDE HOG RINGS OR GROMMETS SPACED AT 12" ON CENTER ALONG LENGTH OF WATERSTOP.
- 4. ALL FIELD SPLICES SHALL BE STRAIGHT, BUTT JOINT SPLICES AND SHALL BE HEAT FUSED WELDED USING A TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRON AT APPROXIMATELY 380 DEGREES F PER THE MANUFACTURER'S SPECIFICATIONS. ALL ELLS, TEES, CORNERS, INTERSECTIONS, ETC. SHALL BE FACTORY MADE JOINTS.
- CONTRACTOR SHALL PROVIDE PRODUCT DATA TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.

SPECIAL INSPECTION AND TESTING

- NOTICE TO THE APPLICANT / OWNER / OWNER'S AGENT / ARCHITECT / 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 THE 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.
- NOTICE TO THE CONTRACTOR / BUILDER / SUB-CONTRACTOR / OWNER-BUILDER: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION / INSTALLATION OF THE WORK HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE 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.
- SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE 2016 CALIFORNIA BUILDING CODE AND AS SUMMARIZED BELOW. THE OWNER SHALL EMPLOY A SPECIAL INSPECTION AGENCY APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE START OF WORK. COPIES OF ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, AND CITY BUILDING INSPECTOR IN A TIMELY MANNER.
- 4. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY BUILDING INSPECTOR.
- 5. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING, AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD, OR ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.
- CONTINUOUS INSPECTION SHALL BE PROVIDED DURING THE PERFORMANCE OF WORK REQUIRING SPECIAL INSPECTION, UNLESS OTHERWISE NOTED. 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, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.
- 7. THE SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, TO PERFORM THE CATEGORY OF SPECIAL INSPECTION SPECIFIED.

- 8. THE CONSTRUCTION MATERIALS TESTING LABORATORY SHALL BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENT.
- OFF-SITE FABRICATION: SPECIAL INSPECTION IS REQUIRED FOR FABRICATION OF MEMBERS AND ASSEMBLIES PERFORMED IN A FABRICATION SHOP NOT APPROVED BY THE CITY OF SAN DIEGO, INSPECTION SERVICES DIVISION, FABRICATOR SHALL BE REGISTERED AND APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP. FABRICATOR SHALL SUBMIT AN "APPLICATION TO PERFORM OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATOR SHALL SUBMIT A "CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.
- 10. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
- 11. WHERE MATERIALS OR ASSEMBLIES ARE REQUIRED BY THE CALIFORNIA BUILDING CODE TO BE LABELED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABELED BY AN AGENCY APPROVED BY THE CITY OF SAN DIEGO IN ACCORDANCE WITH SECTION 1703. PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 1703.5.1 THROUGH 1703.5.4.
- 12. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF ITEMS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN: (1) ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS; (2) ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL; (3) PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION; (4) THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE SPECIAL INSPECTION REPORTS; AND (5) IDENTIFICATION AND QUALIFICATIONS OF THE PERSON OR PERSONS EXERCISING SUCH CONTROL AND THEIR POSITION IN THE ORGANIZATION.

STATEMENT OF SPECIAL INSPECTIONS

CBC REF	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS, ET CETERA	DESIGN STRENGTH		
	CONCRETE CONSTRUCTION			
1705.3	CONTINUOUS INSPECTIONS: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE; AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE; INSPECTION OF CONCRETE FOR PROPER APPLICATION TECHNIQUES.	f'c = 4500 PSI		
	PERIODIC INSPECTIONS: INSPECTION OF REINFORCING STEEL AND PLACEMENT; VERIFICATION OF USE OF REQUIRED DESIGN MIX; INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES; INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.			
	MASONRY CONSTRUCTION			
1705.4	LEVEL A QUALITY INSURANCE PER TABLE 1.19.1 OF ASCE 530-13	fm = 2,000 PSI		
1700.4	MINIMUM TESTS: NONE.	1111 – 2,000 1 01		
	MINIMUM INSPECTION: VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.			
	STEEL CONSTRUCTION			
1705.2	DOCUMENTATION: MATERIAL VERIFICIATION OF STRUCTURAL STEEL (IDENTIFICATION MARKINGS TO CONFORM TO ASTM A6 OR ASTM A568, AND MANUFACTURER'S CERTIFIED MILL TEST REPORTS); MATERIAL VERFICATION OF WELD FILLER MATERIALS (IDENTIFICATION MARKING TO CONFORM TO AWS STANDARDS; MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED).	SEE STRUCTURAL STEEL NOTES THIS		
11 00.2	CONTINUOUS INSPECTIONS: COMPLETE AND PARTIAL PENETRATION _GROOVE WELDS; MULTI-PASS FILLET WELDS; SINGLE-PASS FILLET WELDS GREATER THAN 5/16" ROOT.	SHEET		
	PERIODIC INSPECTIONS: SINGLE-PASS FILLET WELDS 5/16" ROOT OR LESS; INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS (DETAILS SUCH AS BRACING AND STIFFENING, MEMBER LOCATIONS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION).			
	POST-INSTALLED ANCHORS IN CONCRETE (EPOXY).			
1705.3	PERIODIC INSPECTIONS: VERIFY ANCHOR/BAR TYPE AND DIMENSIONS; CONCRETE TYPE AND COMPRESSIVE STRENGTHS; HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR/BAR SPACING, EDGE DISTANCES, CONCRETE THICKNESS, ANCHOR/BAR EMBEDMENT. THE INSPECTOR SHALL VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR/BAR BY CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR/BAR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL SHALL BE PERMITTED TO BE PERFORMED IN THE ABSENCE OF THE INSPECTOR. ANY CHANGE IN THE ANCHOR/BAR PRODUCT BEING INSTALLED OR THE PERSONNEL PERFORMING THE INSTALLATION SHALL REQUIRE AN INITIAL INSPECTION. FOR ONGOING INSTALLATIONS OVER AN EXTENDED PERIOD, THE INSPECTOR SHALL MAKE REGULAR INSPECTIONS TO CONFIRM CORRECT HANDLING AND INSTALLATION OF THE PRODUCT.	HILTI HIT-HY 200 EPOXY ADHESIVE (ICC ESR-3187)		
	CAST-IN-PLACE DEEP FOUNDATIONS (DRILLED PIERS)			
1705.8	CONTINUOUS INSPECTIONS: OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTH AND ADEQUATE STRATA CAPACITY. RECORD CONCRETE VOLUMES.	SEE FOUNDATION NOTES THIS SHEET		

STRUCTURAL ABBREVIATIONS

ALUM

ANCH

ARCH

BLDG

BLK

BLKG

BOTT

BRG

CANT

CBC

CIP

CLG CLR

CMU

COL

CONC

CONN

CONST

CONT

CTR

DBL

DET

DIAG

DIM

ELEV

FMB

EMBED

APPROX

AND	EN	EDGE/END NAIL(ING)		MEZZANINE	SCHED	SCHEDULE
AT	EQ	EQUAL	MFR	MANUFACTURER	SCW	SCREW
POUND(S), NUMBER	ETC	ET CETERA	MIN	MINIMUM	SHT	SHEET
ANCHOR BOLT	EW	EACH WAY	MISC	MISCELLANEOUS	SHTG	SHEATHING
ABOVE	EXIST	EXISTING	MO	MASONRY OPENING		SIMILAR
ADDITIONAL	EXP	EXPANSION	MTL	METAL	SMS	SHEET METAL
ALTERNATE	EXT	EXTERIOR	N/A	NOT APPLICABLE	00	SCREW
ALUMINUM	FF	FINISH FLOOR	NIC	NOT IN CONTRACT	SP	SPECIAL
ANCHOR	FG	FINISH GRADE	NO	NUMBER NOT TO SCALE	SPCG	SPACING
APPROXIMATE(LY)	FIN	FINISH	NTS	NOT TO SCALE	SPEC	SPECIFICATION
ANCHOR ROD	FLR	FLOOR	NW	NORMAL WEIGHT ON CENTER	SQ	SQUARE
ARCHITECTURAL	FN	FIELD NAIL(ING)	OC OD	OUTSIDE DIAMETER	SS	STAINLESS STEEL
BELOW	FND	FOUNDATION	OFCI	OWNER FURNISHED,	SSPWC	STANDARD
BUILDING	FOC	FACE OF	OFGI	CONTRACTOR		SPECIFICATIONS
BLOCK BLOCKING	E014	CONCRETE		INSTALLED		FOR PUBLIC WORKS
BEAM	FOM	FACE OF MASONRY	OFOI	OWNER FURNISHED,		CONSTRUCTION
BOUNDARY NAILING	FOS	FACE OF STUD	01 01	OWNER OWNER	STD	STANDARD
BOTTOM		FRAMING FOOT		INSTALLED	STIFF	STIFFENER
BOTTOM	FT FTG	FOOTING	OH	OPPOSITE HAND	STL	STEEL
BEARING	FV	FIELD VERIFY	OPN	OPEN	STRUC	STRUCTURAL
BETWEEN	GA	GAGE	OPNG	OPENING	SYMM	SYMMETRICAL
CANTILEVER	GALV	GALVANIZE(D)	ORIG	ORIGINAL	T&B	TOP AND BOTTOM
CALIFORNIA	GLB	GLUE-LAMINATED	OWJ	OPEN WEB JOIST	T&G	TONGUE AND
BUILDING CODE	GLD	BEAM	PAF	POWER ACTUATED	144	GROOVE
CAST-IN-PLACE	GR	GRADE		FASTENER(S)	THD	THREAD(ED)
CONSTRUCTION	HDG	HOT DIPPED	PC	PRECAST	THK	THICK(NESS)
JOINT	TIDO	GALVANIZED		CONCRETE	THR	THREAD(ED)
CENTER LINE	HGR	HANGER	PCC	PORTLAND CEMENT	THRU	THROUGH
CEILING	HK	HOOK		CONCRETE	TN	TOE NAIL
CLEAR	HORIZ	HORIZONTAL	PL	PLATE	TP	TOP OF PANEL
CONCRETE	HSB	HIGH STRENGTH	PT	PRESSURE	TRANSV	TRANSVERSE
MASONRY UNIT		BOLT		TREATED	TYP	TYPICAL
COLUMN	HSS	HOLLOW STEEL	PTDF	PRESSURE	UON	UNLESS OTHERWISE
CONCRETE		SECTION		TREATED		NOTED
CONNECTION	HT	HEIGHT		DOUGLAS FIR	VAR	VARIES
CONSTRUCTION	ID	INSIDE DIAMETER	PVC	POLYVINYL	VFCI	VENDOR
CONTINUOUS	INSP	INSPECTION		CHLORIDE		FURNISHED,
CENTER	INT	INTERIOR, INTERNAL	PE	POLYETHYLENE		CONTRACTOR
DOUBLE	JST	JOIST	PERP	PERPENDICULAR		INSTALLED
DETAIL	JT	JOINT	PLF	POUNDS PER	VFVI	VENDOR
DIAMETER	LB	POUND	DOE	LINEAL FOOT		FURNISHED,
DIAGONAL	LBS	POUNDS	PSF	POUNDS PER		VENDOR
DIMENSION	LG	LONG	DOI	SQUARE FOOT		INSTALLED
DITTO	LDH	LONG DIMENSION	PSI	POUNDS PER	VERT	VERTICAL
DRAWING	. 5	HORIZONTAL		SQUARE INCH	VIF	VERIFY IN FIELD
DOWEL	LDV	LONG DIMENSION	PREFAB	PREFABRICATE(D)	W/	WITH
EXISTING EACH	1.0010	VERTICAL	R	RADIUS	WP	WATERPROOFING,
EACH FACE	LONG	LONGITUDINAL	RAD	RADIUS	WD I	WORKING POINT
EXPANSION JOINT	LSL	LAMINATED STRAND	HEIINE	REINFORCED, REINFORCING	WPJ	WEAKENED PLANE
ELEVATION SOINT	LW	LUMBER LIGHTWEIGHT	REQD	REQUIRED	WS	JOINT WATERSTOP
ELEVATION	MATL	MATERIAL	RET	RETAINING		
EMBEDMENT	MAX	MAXIMUM	SC	SCALE	WSHR WT	WASHER WEIGHT
EMBEDMENT	MECH	MECHANICAL			V V I	**LIMITI
,	1112011					

CITY HEIGHTS POOL RECONSTRUCTION GENERAL STRUCTURAL NOTES AND **ABBREVIATIONS**



INSPECTOR

CITY OF SAN DIEGO, CALIFORNIA WBS B-19068 PUBLIC WORKS DEPARTMENT 17 out of 41 Yanta armulah 8/19/2019 PARITA AMMERLAHN FOR CITY ENGINEER DATE PROJECT MANAGER C-85403 PARITA AMMERLAHN RCE# EFRAIN VELELA-MAYO DESCRIPTION BY APPROVED DATE FILMED PROJECT ENGINEER CCS27 COORDINATE 1850-6297 CCS83 COORDINATE DATE STARTED 41287 - 17 - D DATE COMPLETED

1870 Cordell Court Suite 202 El Cajon, CA 92020 tel 619 312 6336 CONTRACTOR aarkenaineerina.cor

 \mathcal{L} \Box HEIGHT.

DIMENSION TABLE FOR						
90 AND 180 HOOKS						
BAR	Α	1	3	С	D	
SIZE	IN		N	IN	IN	
#3	5	;	3	6	2 1/4	
#4	6		4	8	3	
#5	7	;	5	10	3 3/4	
#6	8	1	6	12	4 1/2	
#7	10		7	14	5 1/4	
#8	11		8	16	6	
#9	15	11	3/4	19	9 1/2	
#10	17	13	1/4	22	10 3/4	
#11	19	14	3/4	24	12	
		DIMEN:	SION TA	ABLE		
		FOR '	135 HOC	OKS		
BAR	D		E		F	
SIZE	IN		11	1	IN	
#3	1 1/	2	4 1	l/4	2 1/2	
#4	2		4 -	1/2	3	

4 1/2 UNLESS OTHERWISE NOTED, THESE DIMENSIONS SHALL BE USED FOR ALL INDICATED HOOKS.

2 1/2 5 1/2 3 3/4

DETAILING DIM	<u>90</u>
DETAILING DIM	A
4d OR 2 1/2" MIN	<u>180</u>
N	

						1			
NOTE	-S:								
11011	<u></u>								
1	ALL L	AP SPLI	CES ARI	E CLASS	B CONTA	CT LAP	SPLICES F	PER ACI 318-1	14,

BAR SIZE

#3

#4

#5

#6

#8

#9

#10

#11

3000 PSI

29

38

47

56

82

94

106

119

132

SECTION 25.5.2.1. 2. DOWELS SHALL BE THE SAME GRADE, SIZE, QUANTITY AND SPACING AS VERTICAL REINFORCING.

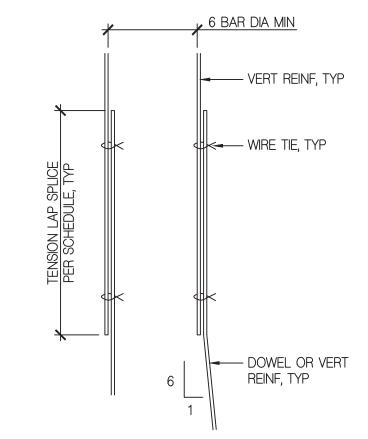
VERTICAL REINFORCING

TENSION LAP SPLICE LENGTH (IN)

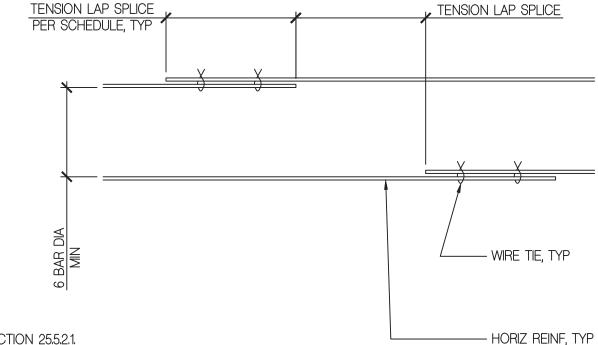
4000 PSI

49

103



⊌ 6 BAR DIA MIN		TE	HORIZON ENSION LA	ITAL REIN P SPLICE		IN)	
	BAR	3000) PSI	4000) PSI	5000) PSI
VERT REINF, TYP	SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
lln	#3	29	23	25	20	23	19
MIDE TIE TVD	#4	38	30	33	26	30	24
WIRE TIE, TYP	#5	47	37	41	32	37	29
	#6	56	45	49	38	45	36
	#7	82	64	71	55	64	50
	#8	94	73	81	63	73	58
	#9	106	82	91	71	82	64
	#10	119	91	103	80	93	72
	#11	132	102	114	88	102	78
liii	NOTES:						



1. ALL LAP SPLICES ARE CLASS B CONTACT LAP SPLICES PER ACI 318-14, SECTION 25.5.2.1. 2. SPLICE LENGTH SHALL BE DETERMINED FROM THE SIZE OF THE LARGER BAR SPLICED.

MINIMUM CLEAR SPACING IS NOT LESS THAN 2 BAR DIAMETERS AND A CLEAR COVER NOT LESS THAN 1 1/2".

4. TOP BARS ARE DEFINED AS BARS WITH 12" OR MORE OF FRESH CONCRETE PLACED BELOW THEM.

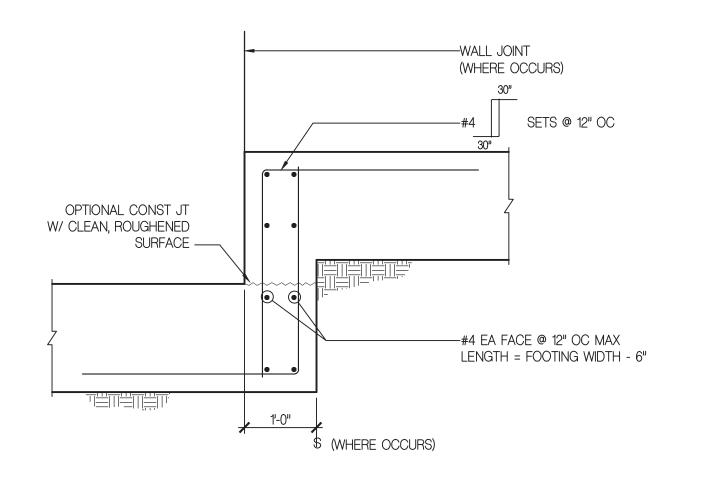
5. ALL HORIZONTAL BAR LAP SPLICES SHALL BE STAGGERED A MINIMUM OF TWICE THE BAR LAP SPLICE FROM SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME OR

HORIZONTAL REINFORCING BAR CONTACT LAP SPLICES

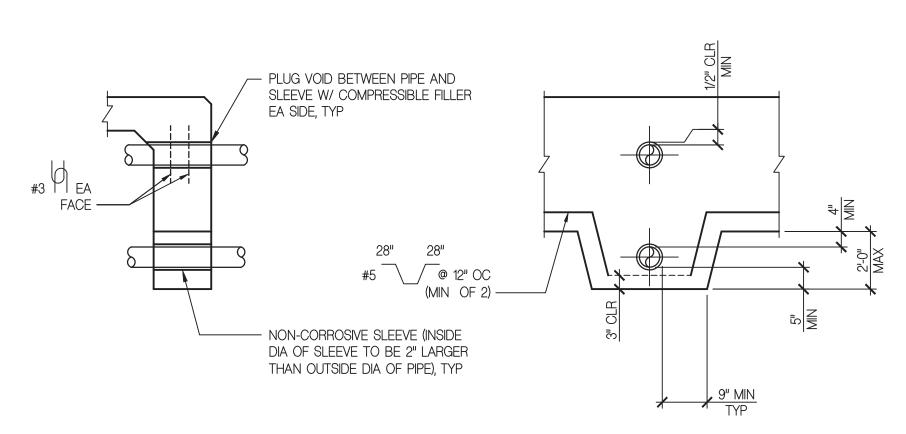
STANDARD HOOKS AND REINFORCING BAR LAP SPLICES IN CONCRETE

SCALE: NONE

S-002



WHERE PIPES OR CONDUITS ARE MORE THAN 24" BELOW BOTTOM OF FOOTING, STEP DOWN FOOTING PER DETAIL 2 THIS SHEET TO CAPTURE PIPES OR CONDUITS.



HOOK

EMBED (IN)

11

14

20

22

25

28

5000 PSI

23

30

45

64

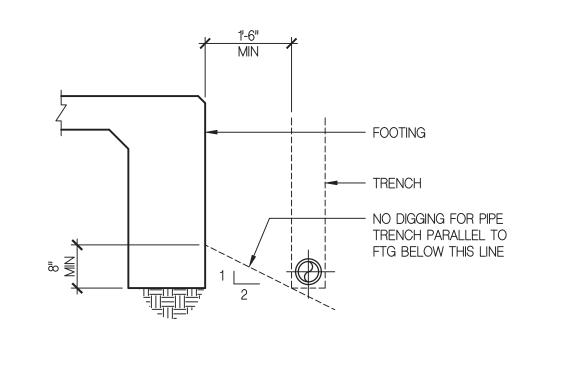
73

82

93

102

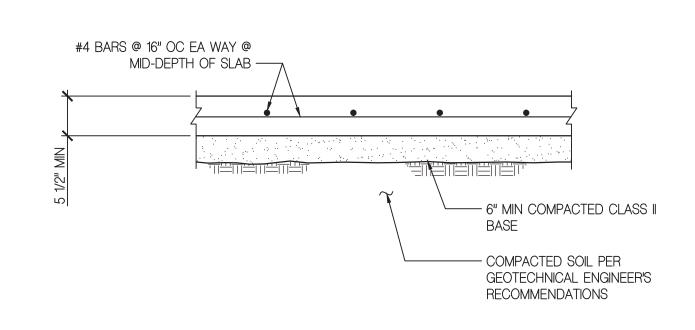
VERTICAL REINFORCING BAR CONTACT LAP SPLICES



NOTES:

1. CONCRETE SHALL HAVE MEDIUM BROOM FINISH.

2. CONCRETE COMPRESSIVE STRENGTH SHALL CONFORM TO THE REQUIREMENTS SPECIFIED ON SHEET S-001



TYPICAL STEPPED FOOTING DETAIL

SCALE: NONE

S-002

TYPICAL DETAIL WHERE PIPES OR CONDUITS INTERSECTION FOOTINGS SCALE: NONE



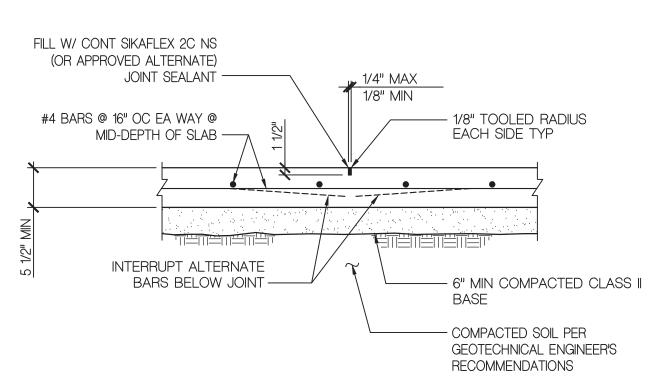
TYPICAL SLAB-ON-GRADE SCALE: NONE

S-002

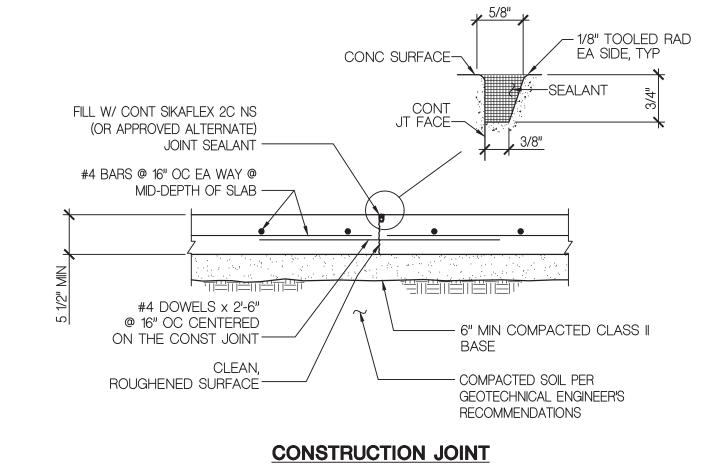
S-002

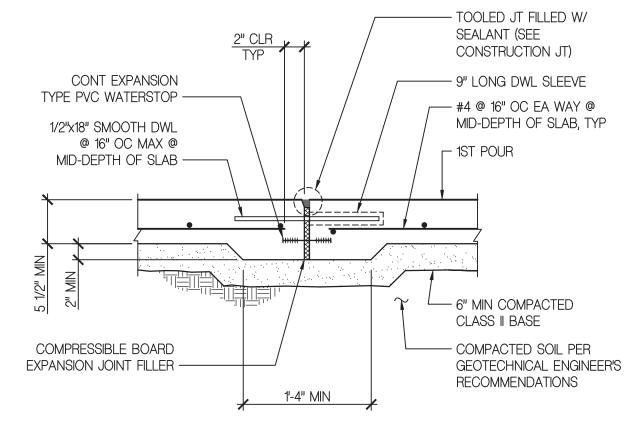
1. A CONSTRUCTION JOINT MAY BE USED IN LIEU OF CONTRACTION JOINTS AT THE CONTRACTOR'S OPTION.

- 2. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 6'-0" OC IN EACH DIRECTION. MAXIMUM EXPANSION JOINT SPACING SHALL BE 30'-0" OC IN EACH DIRECTION. SEE SHEET S-101 FOR JOINT LAYOUT.
- 3. JOINTS SHALL ALIGN WITH PERIMETER CURB JOINTS (WHERE OCCURS).
- 4. CONCRETE SHALL HAVE MEDIUM BROOM FINISH.



CONTRACTION JOINT



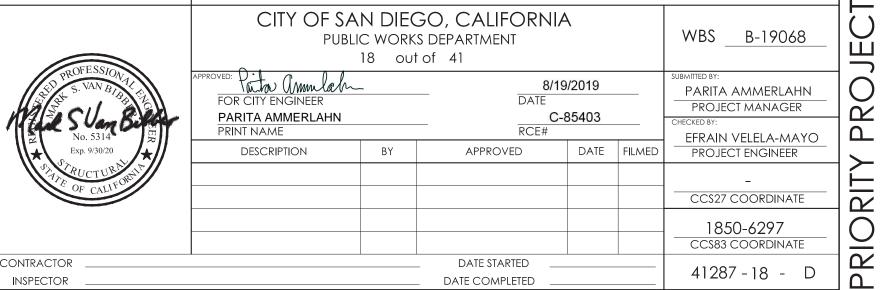


EXPANSION JOINT

S-002

1870 Cordell Court Suite 202 El Cajon, CA 92020 tel 619 312 6336

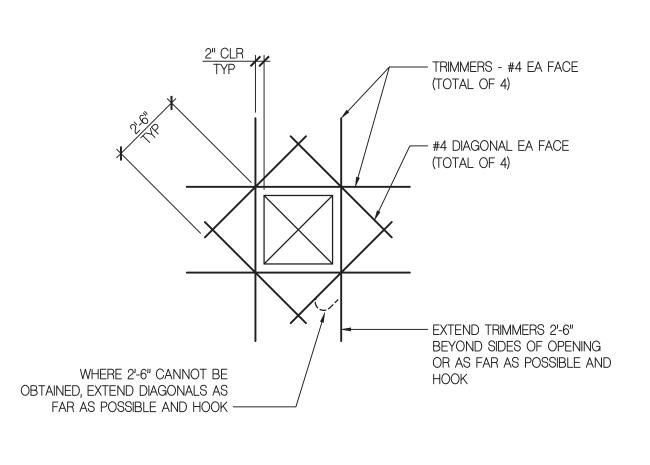
CITY HEIGHTS POOL RECONSTRUCTION TYPICAL STRUCTURAL DETAILS

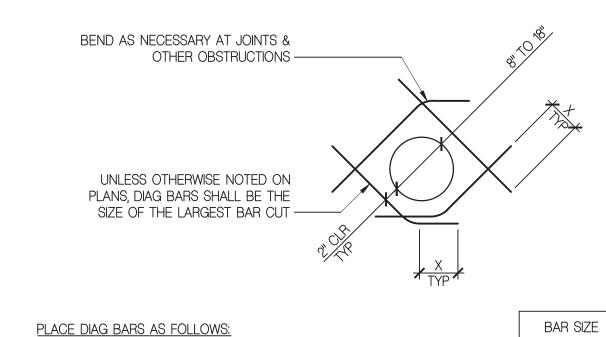


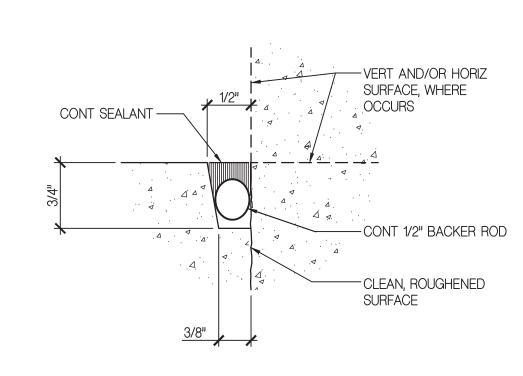
TYPICAL POOL DECK SLAB-ON-GRADE JOINTS

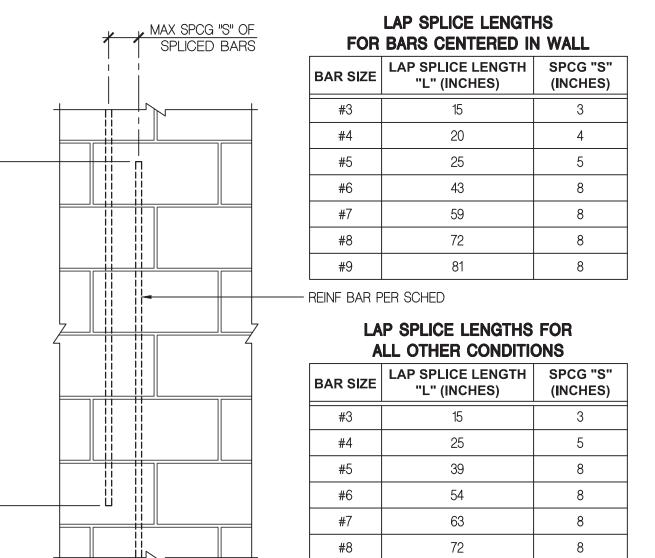
SCALE: NONE

S-003









INTERRUPTED BARS - 1/2 EA SIDE OF OPENING.

ADDITIONAL REINFORCING AT RECTANGULAR SLAB OPENINGS

PROVIDE EXTRA BARS IN EACH DIRECTION (NOT SHOWN)

PARALLEL TO SIDES OF OPENING EQUAL TO AREA OF

SCALE: NONE

S-003

S-003

ADDITIONAL REINFORCING AT CIRCULAR SLAB OPENINGS 18" OR LESS IN DIAMETER SCALE: NONE

1. AT CENTER OF SLABS FOR ONE LAYER OF REINFORCING.

2. AT EACH FACE FOR TWO LAYERS OF REINFORCING.

S-003

12"

15"

18"

24"

30"

#4

#5

#6

#7

#8

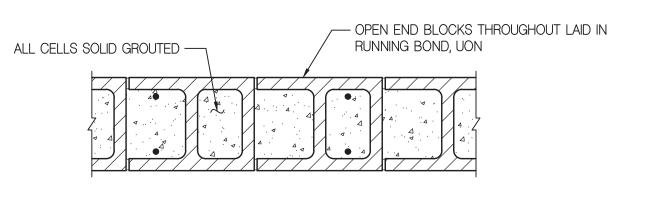
- (2) #5 VERT BARS FULL

TYPICAL JOINT SEALANT DETAIL SCALE: NONE

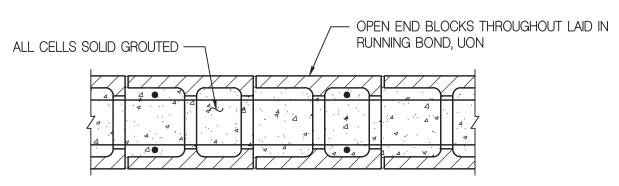
∖ S-003

TYPICAL MASONRY WALL REINFORCING LAP SPLICES SCALE: NONE

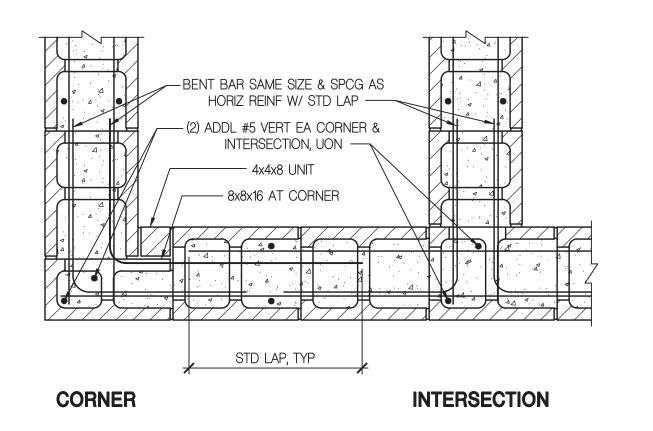




TYPICAL CMU WALL COURSE BETWEEN BOND BEAM COURSES



HT OF WALL, UON - #3 HAIRPIN TIE SAME SPCG AS HORIZ REINF (16" OC MAX) 18" MIN



TYPICAL CMU WALL BOND BEAM COURSE

TYPICAL MASONRY WALL COURSES DETAIL SCALE: NONE

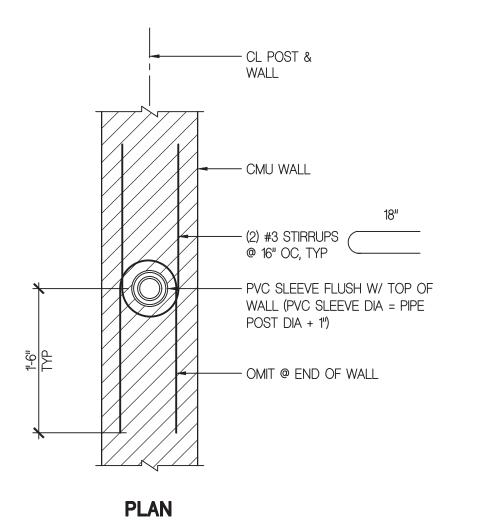
TYPICAL REINFORCING AT MASONRY WALL ENDS SCALE: NONE

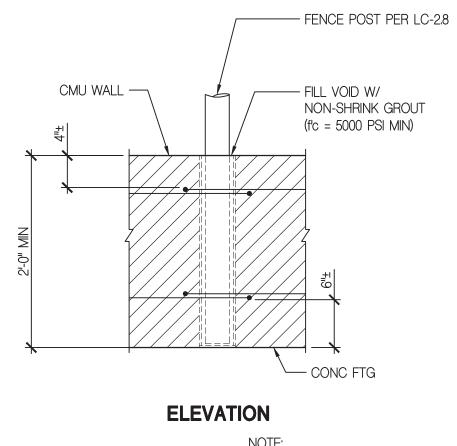
SCALE: NONE S-003

S-003

TYPICAL MASONRY WALL REINFORCING AT CORNERS AND INTERSECTIONS

S-003





NOTE: WALL REINFORCING NOT SHOWN FOR CLARITY.

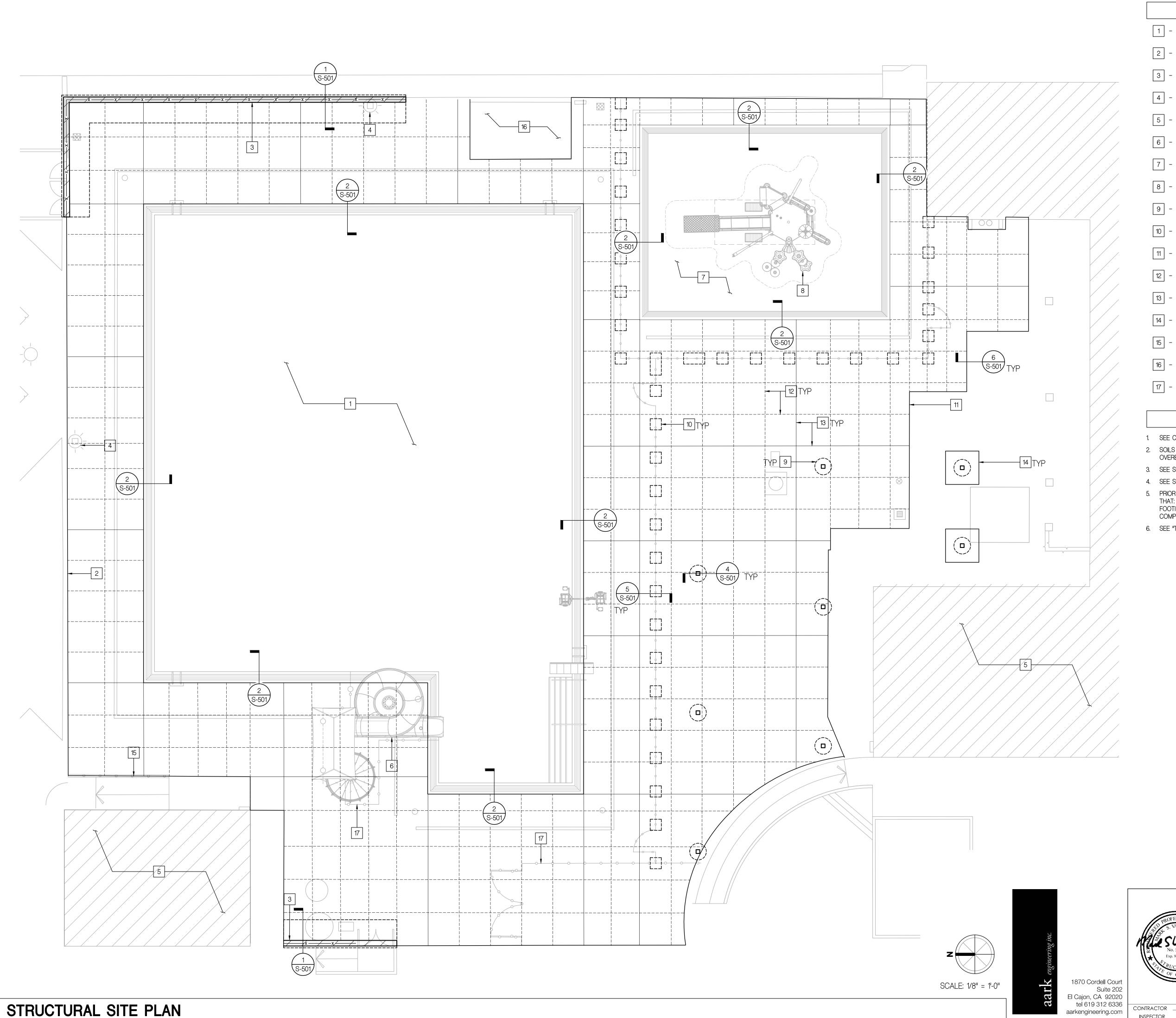
1870 Cordell Court Suite 202 El Cajon, CA 92020

	TYPICAL STRUCTURAL DETAILS										
TEGG.	CITY OF SA	WBS <u>B-19068</u>	JECT								
PROFESSIONAL S. VAN BIBLES	APPROVED: Note that we have a contract of the	_	DATE	9/2019 85403		PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA-MAYO	PRO.				
Exp. 9/30/20	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER					
OF CALLED						- CC\$27 COORDINATE	RIT				
						1850-6297 CCS83 COORDINATE	0				
Ontractor Inspector	41287 - 19 - D	PRI									

CITY HEIGHTS POOL RECONSTRUCTION

TYPICAL POST IN MASONRY WALL DETAIL SCALE: NONE

tel 619 312 6336 aarkengineering.com



KEYNOTES

- 1 LAP POOL PER POOL DESIGNER
- 2 EXISTING RETAINING WALL AND FENCE TO REMAIN
- 3 RETAINING WALL AND FENCE PER DETAIL 1/S-501 (SEE CIVIL FOR EXTENTS)
- 4 PROTECT IN PLACE LIGHT POLE AND FOUNDATION
- 5 EXISTING BUILDING TO REMAIN
- 6 SLIDE (DEFERRED SUBMITTAL ITEM), FOUNDATION TO BE DESIGNED SUCH THAT THE SLIDE DOES NOT SURCHARGE THE POOL WALLS
- 7 TOT POOL PER POOL DESIGNER
- 8 PLAY STRUCTURE (DEFERRED SUBMITTAL ITEM)
- 9 FOOTING FOR SHADE SAIL STRUCTURE PER DETAIL 4/S-501 (SEE ARCH FOR LOCATION)
- 10 FOOTING FOR ALUMINUM FENCE POST PER DETAIL 5/S-501 (SEE ARCH FOR LOCATION)
- 11 SAWCUT, BREAKOUT AND REMOVE EXISTING CONCRETE DECK PER DEMO PLAN. CONSTRUCT CONCRETE DECK PER CIVIL SEE DETAILS 4/S-002 AND 5/S-002 FOR JOINTS, THICKNESS AND REINFORCEMENT REQUIREMENTS
- 12 CONTRACTION JOINT DASHED LINE PER DETAIL 5/S-002 (SEE C-005 FOR PLAN DIMENSIONS)
- 13 EXPANSION JOINT SOLID LINE PER DETAIL 5/S-002 (SEE C-005 FOR PLAN DIMENSIONS)
- 14 SAWCUT, BREAKOUT AND REMOVE EXISTING CONCRETE. PATCH AS NECESSARY
- 15 RAMP AND GUARDRAIL PER CIVIL
- 16 EXISTING CONCRETE PAD
- 17 FENCE PER ARCH

NOTES

- 1. SEE CIVIL AND ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
- 2. SOILS SHALL BE PREPARED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. SEE GEOTECHNICAL REPORT FOR OVEREXCAVATION AND RECOMPACTION REQUIREMENTS.
- 3. SEE SHEETS S-002 AND S-003 FOR TYPICAL CONCRETE REINFORCING DETAILS.
- 4. SEE SHEET S-003 FOR TYPICAL MASONRY WALL REINFORCING DETAILS.
- 5. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT: THE FOUNDATIONS WERE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SOILS REPORT; THE FOOTINGS EXTEND TO THE PROPER DEPTH OR BEARING STRATA; UTILITY TRENCHES ARE PROPERLY BACKFILLED AND COMPACTED; AND THE CONDITIONS FOUND MATCH THOSE ASSUMED IN THE SOILS REPORT.
- 6. SEE "TEMPORARY SHORING" NOTES ON SHEET S-001 FOR MINIMUM DESIGN REQUIREMENTS.

S-101

RECONSTRUCTION

CITY HEIGHTS P

SUBMITTAL

CITY HEIGHTS POOL RECONSTRUCTION STRUCTURAL SITE PLAN

	-					
PROFESSIONAL S. VAN BIBBERTON	CITY OF SA	WBS <u>B-19068</u>				
	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	h_				PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA-MAYO
Exp. 9/30/20	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
OF CALIFORNIA			Pata amulah			-
OF CAD.						CC\$27 COORDINATE
						1850-6297 CCS83 COORDINATE
CONTRACTOR	-		DATE STARTED	I		41287 - 20 - D
INSPECTOR			DATE COMPLETED			4120/ - 20 - D

Page 18 of 18

— CL HSS & PIER

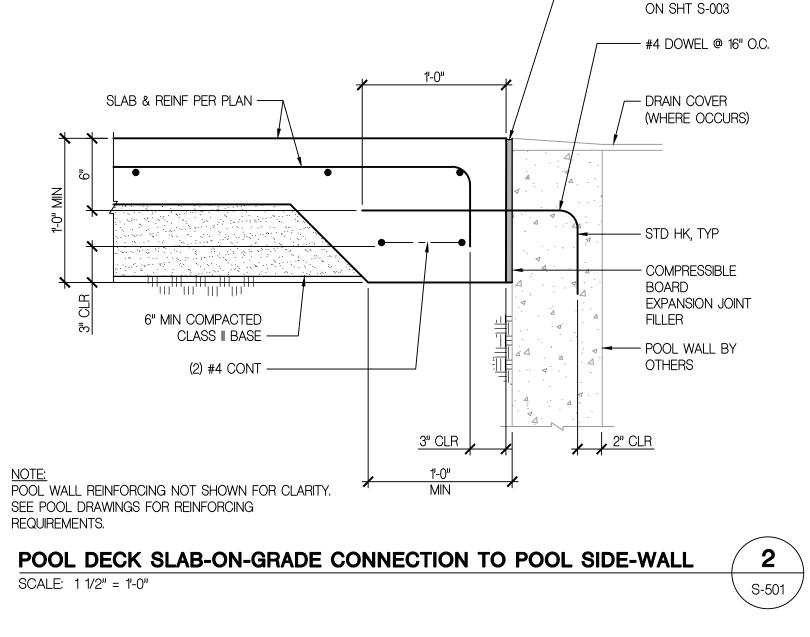
ONSTRUCTION

RE

HEIGHTS

S-501

- 1/4" CAP PL



- CONT SEALANT &

BACKER ROD PER DET 3

S-501

Suite 202

POOL DECK SLAB-ON-GRADE CONNECTION TO POOL SIDE-WALL SCALE: 1 1/2" = 1'-0"

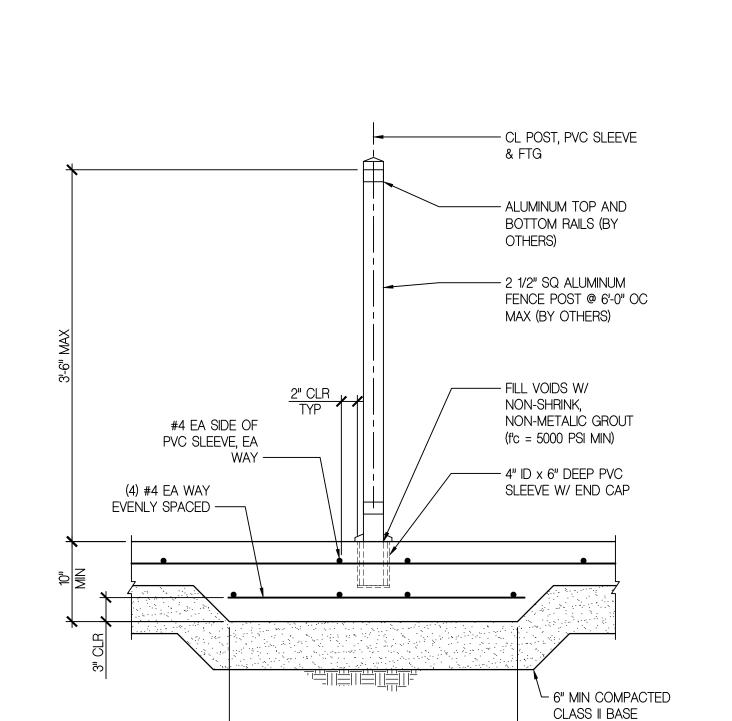
CL FTG, HSS & PL - FTG BELOW PER DET 4 THIS SHT - 1 1/4" HEADED ANCHOR BOLT, TYP OF (4) — 1 1/2" THICK BASE PL CL FTG, HSS & PL - HSS PER PLAN 5/16 5/16

SHADE SAIL SECTION AT POST BASE

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

SHADE SAIL POST AND FOUNDATION

SCALE: 3/4" = 1'-0" S-501



ALUMINUM FENCE POST AND FOOTING

SCALE: 1" = 1'-0"

PROVIDE 4" STD PIPE POSTS (SCH 40) AT CORNERS

RETAINING WALL WITH 12' TALL CHAIN LINK FENCE

AND FIRST TWO POSTS ADJACENT TO CORNER

SCALE: 3/4" = 1'-0"

CONT SEALANT & BACKER ROD PER DET 3 ON SHT S-003 -#4 x 30" LONG DWL @ 16" OC - SAWCUT IN 4" DEEP DRILLED HOLE FILLED W/ EPOXY ADHESIVE — (E) CONC PER ICC ESR-3187 -SLAB-ON-GRADE SLAB & REINF PER PLAN — - COMPRESSIBLE BOARD EXPANSION JOINT 6" MIN COMPACTED CLASS II BASE 2" CLR 8" MIN

POOL DECK SLAB-ON-GRADE AT EXISTING CONCRETE

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

S-501

- CL 3 1/2" STD PIPE LINE POST (4" STD PIPE POSTS AT CORNERS AND FIRST TWO

AT 10'-0" OC MAX (12'-0" CHAIN LINK FENCE

HEIGHT - ASSUMES 40% OBSTRUCTED

AREA), SEE DET 8 ON SHT S-003 FOR ADDITIONAL REINFORCING IN CMU WALL

- CONT SEALANT & BACKER ROD

- POOL DECK SLAB-ON-GRADE PER

PER DET 3 ON SHT S-003

- #5 @ 16" OC HORIZ, EA FACE

- WATERPROOFING MEMBRANE

#5 DWL @ 16" OC W/ STD HK EA

POSTS ADJACENT TO CORNER)

— 2" CAP BLOCK

PLAN

#5 @ 16" OC EA WAY, TOP & BOTTOM ——

4'-4"

#5 CONT EA FACE —

12" SOLID GROUTED CMU —

CLEAN, ROUGHENED

FIN GRADE PER CIVIL -

7'-0" MIN TO FACE OF SLOPE

(WHERE OCCURS)

SURFACE -

6 S-501

S-501

CITY HEIGHTS POOL RECONSTRUCTION STRUCTURAL DETAILS

DATE COMPLETED

CITY OF SAN DIEGO, CALIFORNIA WBS <u>B-19068</u> PUBLIC WORKS DEPARTMENT 21 out of 41 FOR CITY ENGINEER 8/19/2019 PARITA AMMERLAHN DATE PROJECT MANAGER C-85403 RCE# PARITA AMMERLAHN EFRAIN VELELA-MAYO DESCRIPTION APPROVED DATE FILMED PROJECT ENGINEER BY CC\$27 COORDINATE 1850-6297 CCS83 COORDINATE CONTRACTOR DATE STARTED 41287 - 21 - D

1870 Cordell Court El Cajon, CA 92020 tel 619 312 6336 aarkengineering.com

- CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED WITHOUT SUBSTANTIAL ALTERATION. IN AS MUCH AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. FURNISH FITTINGS REQUIRED TO MEET SUCH CONDITIONS AT NO COST TO THE OWNER.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED TIGHT AGAINST AND PARALLEL TO BEAMS AND WALLS.
- CONDUITS SHALL BE TERMINATED SO AS TO PERMIT FINAL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT WITHOUT EXTENSIVE USE OF FLEXIBLE CONDUIT.
- CONDUITS WHICH TERMINATE AT SWITCHBOARD OR PANELBOARDS SHALL BE LOCATED FOR PROPER ALIGNMENT WITHOUT THE NEED FOR AUXILIARY GUTTERS, WIREWAYS OR PANEL EXTENSIONS.
- B. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUITS ARE BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS APPROVED BY THE ARCHITECT/ENGINEER MAY BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL SHALL BE MAINTAINED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- NAMEPLATES SHALL CONFORM STRICTLY TO INSTRUCTIONS AS SPECIFIED IN THE ELECTRICAL SPECIFICATIONS AND ON THE DRAWINGS. THE FOLLOWING SHALL HAVE NAMEPLATES:
- a. ALL MAIN BREAKERS
- b. ALL FEEDER BREAKERS IN SWITCHBOARDS AND DISTRIBUTION PANELS.
- c. ALL PANELBOARDS AND SWITCHBOARDS d. DISCONNECT SWITCHES
- e. COMBINATION MOTOR STARTERS f. ENCLOSED CIRCUIT BREAKERS
- g. CONTROL CABINETS
- 10. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE PHASE/NEUTRAL CONDUCTORS. SYSTEM AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED AND INSTALLED AS REQUIRED BY THE CEC U.O.N.
- 11. ALL CIRCUIT PROTECTIVE DEVICES SHALL HAVE THE REQUIRED RATINGS AND INTERRUPTING CAPACITY EQUAL TO OR GREATER THAN 110% OF THE AVAILABLE SHORT CIRCUIT CURRENT AT ITS SUPPLY TERMINAL.
- 12. ALL ELECTRICAL PANELS, LIGHT FIXTURES AND EQUIPMENT RECESSED IN FIRE RATED WALLS AND CEILINGS SHALL BE BOXED WITH EQUIVALENT HOUR RATED CONSTRUCTION.
- 13. OUTLET BOXES, UTILIZATION EQUIPMENT CABINETS, CONDUIT SYSTEMS, LIGHTING FIXTURES AND CONVENIENCE OUTLETS SHALL BE GROUNDED AND BONDED IN ALL ELECTRICAL SYSTEMS OPERATING AT 48 VOLTS AND ABOVE. EACH GROUND WIRE SHALL BE TERMINATED AT THE EQUIPMENT GROUND BAR OR TERMINAL. EQUIPMENT GROUND WIRES SHALL BE SIZED PER CEC 250.122.
- 14. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL ROPE CONTAINED WITHIN. LEAVE MINIMUM OF 2'-0" SLACK AT EACH END.
- 15. ALL CONDUITS SHALL BE A MINIMUM TRADE SIZE OF 3/4".
- 16. ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER IN RACEWAY, PER SPECIFICATIONS, REGARDLESS OF APPLICATION. NO ALUMINUM WIRING OR MC CABLE OR AC CABLE SHALL BE USED.
- 17. ALL EQUIPMENT AND MATERIALS REMOVED BY THE CONTRACTOR SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE
- 18. FIELD VERIFY EXISTING CONDITIONS AND ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS BETWEEN PLANS AND ACTUAL CONDITIONS PRIOR TO SUBMITTING BID.
- 19. IF THERE ARE CONFLICTS WITHIN THESE ELECTRICAL DRAWINGS OR BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS, OR BETWEEN THE ELECTRICAL DRAWINGS AND ANY MECHANICAL, ARCHITECTURAL, PLUMBING OR STRUCTURAL DRAWING, BID THE MORE EXPENSIVE OR ELABORATE PROCESS OR PROCEDURE SHOWN AND CALL THE DISCREPANCY TO THE ARCHITECT/ENGINEER'S ATTENTION. SHOULD THE CLIENT, IN ITS DISCRETION, CHOOSE TO IMPLEMENT THE CHEAPER OR SIMPLER PROCEDURE AFTER BID OPENING, A CREDIT CHANGE ORDER WILL BE ISSUED TO THE CONTRACTOR.

	ELECTRICAL LEGEND
SYMBOL	DESCRIPTION
[<u>៊ុ</u>]្សា ទ	DASHED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO BE REMOVED.
<u> </u>	FINE—LINED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO REMAIN.
0	SURFACE MOUNTED LIGHTING FIXTURE.
oc ab	COMBINATION OCCUPANCY SENSOR/WALL SWITCH, WALL MOUNTED AT +45" AFF TO CENTER OF BOX U.O.N. SUBSCRIPT WHEN SHOWN INDICATES BI-LEVEL SWITCHING FUNCTIONS.
\$	CROSS MARK ON ANY SWITCH SYMBOL INDICATES EXISTING SWITCH OUTLET.
——EX ——	EXISTING CONDUIT TO REMAIN.
——R——	EXISTING CONDUIT TO BE REMOVED IF IN AN ACCESSIBLE AREA OR TO BE ABANDONED IF IN AN INACCESSIBLE AREA.
	ELECTRICAL SERVICE EQUIPMENT
===	FLUSH MOUNTED PANELBOARD.
	SURFACE MOUNTED PANELBOARD.
<u>—</u>	SURFACE MOUNTED CABINET, AS NOTED.
	FLUSH MOUNTED CABINET, AS NOTED.
ㅁ	FUSED DISCONNECT SWITCH. SIZE AS NOTED. (FDS)
	SOFT STARTER. SIZE AS REQUIRED FOR MOTOR HORSEPOWER.
	COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.
0	JUNCTION BOX. SIZED PER CEC, U.O.N.
IC	INTERCOM OUTLET, MOUNTED AT +45" AFF TO CENTER OF BOX U.O.N.
	CONDUIT CONCEALED IN WALL OR CEILING SPACE.
	CONDUIT CONCEALED UNDER FLOOR SLAB OR UNDERGROUND.
	CONDUIT INSTALLED EXPOSED.
4	FLEXIBLE METAL CONDUIT. INSTALL REQUIRED BRANCH CIRCUIT CONDUCTORS AND EQUIPMENT GROUND CONDUCTOR.

SINGLE LINE DIAGRAM LEGEND								
SYMBOL	DESCRIPTION							
M	METER SOCKET.							
⊣⊢	NORMALLY OPEN POWER OR RELAY CONTACT.							
©	CONTACTOR COIL.							
100AT 225AF 3P	TRIP SETTING							
01	NO. OF POLES							

	ABBREVIATIONS
ABBREV.	DESCRIPTION
A, AMP	AMPERE
AA	DRY TYPE, SELF COOLED TRANSFORMER
AC	ALTERNATING CURRENT
AF	AMPS FRAME, OR AMPS FUSE RATING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
AF	AMPS FRAME RATING
AL	ALUMINUM
AN	ANNUNCIATOR
АТ	AMPS TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AS	AMPS SWITCH RATING
AUTO	AUTOMATIC
BIL	BASIC IMPULSE LEVEL
c	CONDUIT
СВ	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3).
CIR	CIRCUIT
C.O.	CONDUIT ONLY
CONN.	CONNECTION
CU	COPPER
DEMO	DEMOLISH/DEMOLITION
DWG	DRAWING
EA.	EACH
EG	EQUIPMENT GROUND, OR EQUIPMENT GROUNDING CONDUCTOR.
ELEC	ELECTRICAL
ELEV.	ELEVATION
EQUIP.	EQUIPMENT
EX	EXISTING
FLEX	FLEXIBLE
FT	FOOT, FEET
GA	GAUGE
GF	GROUND FAULT
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFI	GROUND-FAULT INTERRUPTER

	ABBREVIATIONS							
ABBREV.	DESCRIPTION							
GFP	GROUND FAULT PROTECTION (FOR EQUIPMENT)							
GND	GROUND							
НН	HANDHOLE							
HP	HORSEPOWER							
HZ	HERTZ							
IBC	INTERNATIONAL BUILDING CODE							
IG	ISOLATED GROUND							
INST	INSTANTANEOUS							
IR	INTERRUPTING RATING							
JB	JUNCTION BOX							
К	KILO (K) OR KELVIN							
KA	1000 AMPS (kA)							
KAIC	1000 AMPS INTERRUPTING CAPACITY (kAIC)							
KV	KILOVOLT (kV)							
KVA	KILOVOLTAMPS (kVA)							
KW	KILOWATT (kW)							
KWH	KILOWATTHOUR (kWh)							
LTG	LIGHTING							
LV	LOW VOLTAGE							
MAX.	MAXIMUM							
MCP	MOTOR CIRCUIT PROTECTOR							
MIN.	MINIMUM							
NEC	NATIONAL ELECTRICAL CODE							
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION							
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION							
NIC	NOT IN CONTRACT							
NTS	NOT TO SCALE							
oc	ON CENTER							
Р	POLE							

	ABBREVIATIONS
ABBREV.	DESCRIPTION
PH	PHASE
PNL	PANELBOARD
PR	PAIR
PRI	PRIMARY
RECPT	RECEPTACLE
REQ'D.	REQUIRED
SEC	SECONDARY
SECT.	SECTION
SH	SHIELDED
S/N	SOLID NEUTRAL
SQ.	SQUARE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TD	TIME DELAY
TEL	TELEPHONE/VOICE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UFER	CONCRETE ENCASED GROUNDING ELECTRODE
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
٧	VOLT
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, OR WIRE
WP	WEATHERPROOF
W/T	WATERTIGHT
XFMR	TRANSFORMER
	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE U.O.N.
+48"	

E-001

CITY HEIGHTS POOL RECONSTRUCTION ELECTRICAL LEGEND AND GENERAL NOTES





INSPECTOR _

CITY OF S PUBL	WBS <u>B-19068</u>				
FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	-				PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
					CCS27 COORDINATE
					1850-6297 CCS83 COORDINATE
		DATE STARTED DATE COMPLETED			41287 - 22 - D

ONSTRUCTIO

<u>~</u>

HEIGHTS

LA MESA, CA 91941-5221

TREI PROJECT # 19115.SOO

M.DELUNA 08/09/19 - 7:56AM

619 / 466 / 6224 FAX 466 / 6233

CONTRACTOR

INSPECTOR

E-MAIL: ENGINEER@TREISD.COM

CITY HEIGHTS POOL RECONSTRUCTION

1850-6297

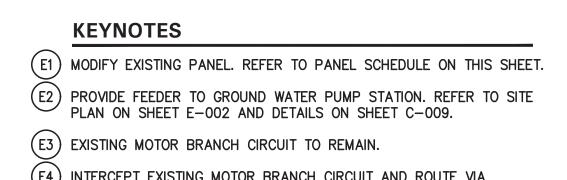
CCS83 COORDINATE

41287 - **23** - D

DATE STARTED _

DATE COMPLETED _

E-601



(E4) INTERCEPT EXISTING MOTOR BRANCH CIRCUIT AND ROUTE VIA CONTACTOR. REFER TO DIAGRAM 3/E-601.

(E5) EXISTING STARTER TO REMAIN.

SYSTEM VOLTAGE:

18.3

SYSTEM PHASE:

(E6) PROVIDE NEW COMBINATION STARTER AS INDICATED.

(E7) DISCONNECT EXISTING MOTOR AND RE-CONNECT REPLACEMENT MOTOR.

VOLTS RUN TO OTHER WHAT ENDING PERCENT

205.2 1.33%

Y/N Auminum DROPPED PERCENT LOAD Y/N LOAD VOLTAGE DROPPED

8.79%

2.8 1.33%

СКТ	DESCRIPTION	LOAD TYPE	BKR	LOAD) (VA) I. A	LOAI	(VA) I.B	LOAD PH	(VA)	BKR	LOAD	DESCRIPTION	
1	GROUND WATER PUMP STATION (NOTE 2)	MTR	50/	1911	2921					30/	MTR	POOL SLIDE PUMP 7.5HP (NOTE 1)	_
3		MTR	1			1911	2921			1	MTR		
5		MTR	/3					1911	2921	/3	MTR		_
7	BUSSED SPACE											BUSSED SPACE	-
9	BUSSED SPACE											BUSSED SPACE	-
11	BUSSED SPACE											BUSSED SPACE	-
13	BUSSED SPACE			4								BUSSED SPACE	-
15	BUSSED SPACE											BUSSED SPACE	-
17	BUSSED SPACE									·		BAD BUSSING -	
19	CHILDREN'S POOL CIRC. PUMP 2HP (NOTE 1)	MTR	30/	903								DO NOT USE BAD BUSSING - DO NOT USE	
21		MTR	1			903						BAD BUSSING - DO NOT USE	
23		MTR	/3					903				BUSSED SPACE	
25	CHILDREN'S POOL BOOST. PUMP 5HP (NOTE 1)	MTR	30/	2018	6717					100/	MTR	SWIMMING POOL 20HP (NOTE 1)	_
27		MTR	1			2018	6717			1	MTR		
29		MTR	/3					2018	6717	/3	MTR		
	CONNECTED	VA	DEMAND	VA			PH A	РН В	PH C				_
	GEN'L LOAD: 0	7 1	0		1		14470	14470	14470	CONNE	CTEDI	OAD PER PHASE	

FEEDER/SYSTEM

FEEDER OCP

FED FROM: SWBD MSB

SYSTEM: 208 V, 3-PH, 3W

175 AMPS

LOAD TYPES

121 AMPS OF TOTAL CONNECTED LOAD

135 HIGH PHASE AMPS/LCL

45089 TOTAL DEMAND VA (BALANCED)

blank or <u>NON</u>: NON-CONTINUOUS <u>LCL</u>: LONG-CONTINUOUS

KIT: KITCHEN PNL: SUB-FED PNL

REC :DEMANDABLE RECEPT'S

PANEL NOTES:

GEN'L RECEPT: 0

KITCHEN LOAD: 0

MOTOR LOAD: 43410

1. RE-CONNECT REPLACEMENT PUMP TO EXISTING BRANCH CIRCUIT.

POOL EQUIP

REC CENTER

150A/3P M.C.B.

LOCATION:

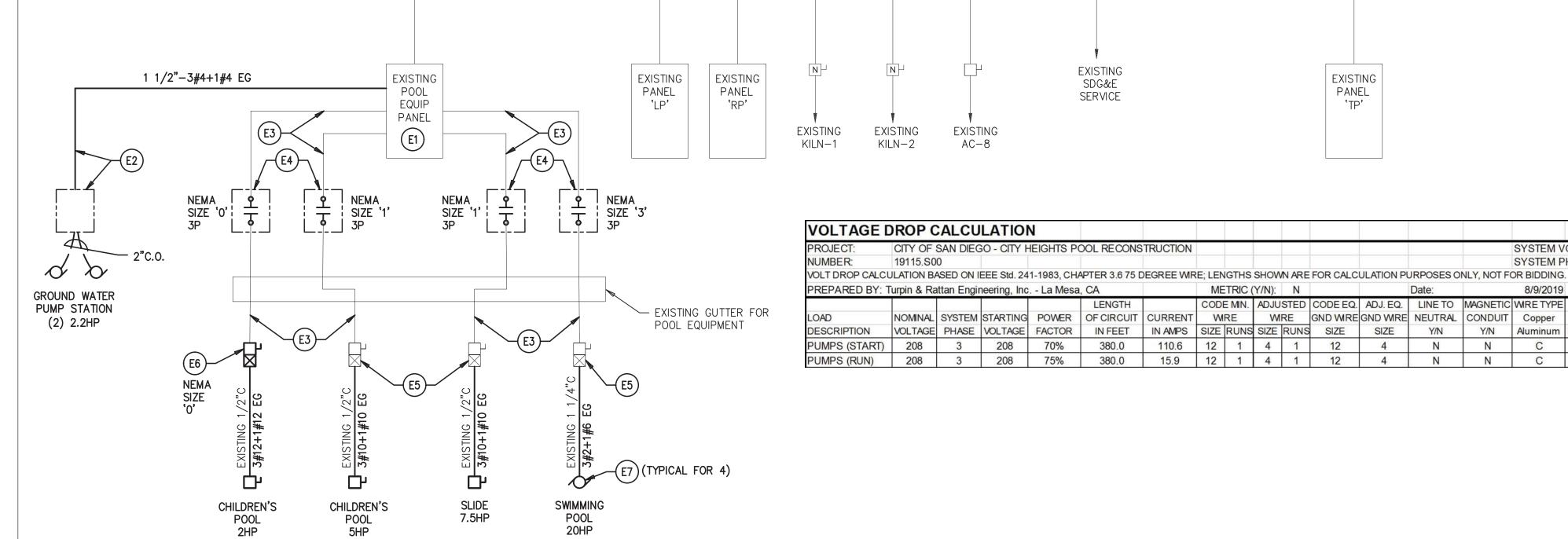
BUS AMPS 225

MOUNTING: SURFACE

EXISTING

2. PROVIDE NEW CIRCUIT BREAKER IN EXISTING BUSSED SPACE, SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.

+25% OF LARGEST



EXISTING SWBD 'MSB'

175AT 225AF

SINGLE LINE DIAGRAM (1) SCALE: NONE E-601

208

EXISTING

SERVICE

SDG&E

NOMINAL SYSTEM STARTING POWER OF CIRCUIT CURRENT WIRE

380.0

70%

600A BUS, 208/120V, 3PH, 4W

- EXISTING SDG&E

100AF

EXISTING

AC-8

600AT 600AF

50AT 100AF

100AF •

100AT •

225AF

METER #6690629

200A BUS, 208/120V, 3PH, 4W

EXISTING SDG&E METER #6136719

METRIC (Y/N): N

110.6 | 12 | 1 | 4 | 1

150AT 225AF

EXISTING

PANEL

CODE MIN. ADJUSTED CODE EQ. ADJ. EQ. LINE TO MAGNETIC WIRE TYPE

12

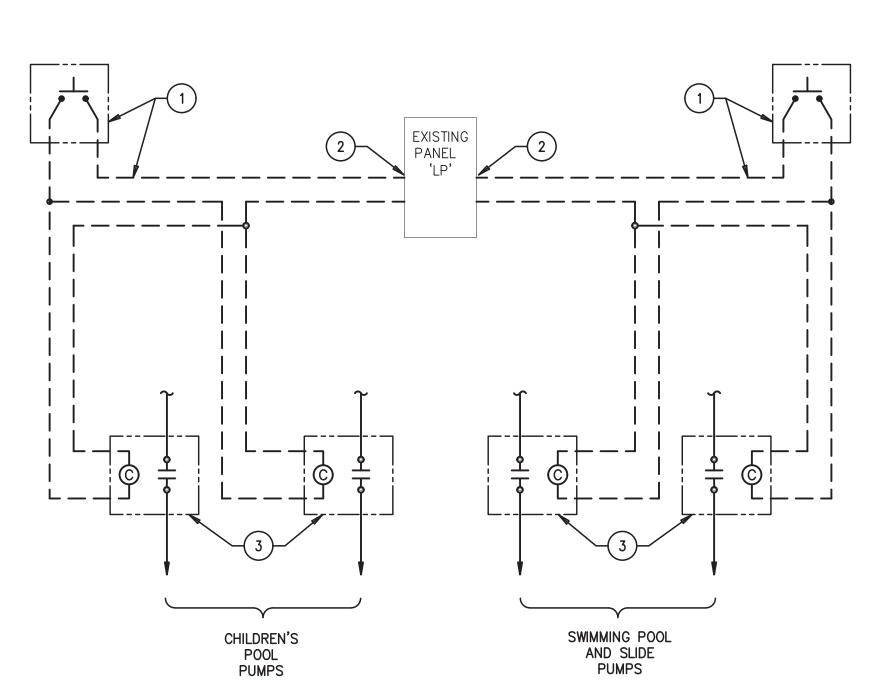
WRE GND WRE GND WRE NEUTRAL CONDUIT Copper

Y/N

N

N

N -



ELEVATION NOTES A EXISTING SWIMMING POOL SLIDE COMBO STARTER AND DISCONNECT TO

\E−601/

B EXISTING CHILDREN'S POOL COMBO STARTER AND DISCONNECT. REPLACE WITH NEMA SIZED '0' 3 PHASE UNIT.

© EXISTING CHILDREN'S POOL WATER SUPPLY COMBO STARTER AND DISCONNECT TO REMAIN.

D EXISTING SWIMMING POOL COMBO STARTER AND DISCONNECT TO REMAIN.

POOL EQUIPMENT ELEVATION SCALE: NONE

TO PUMP WEL



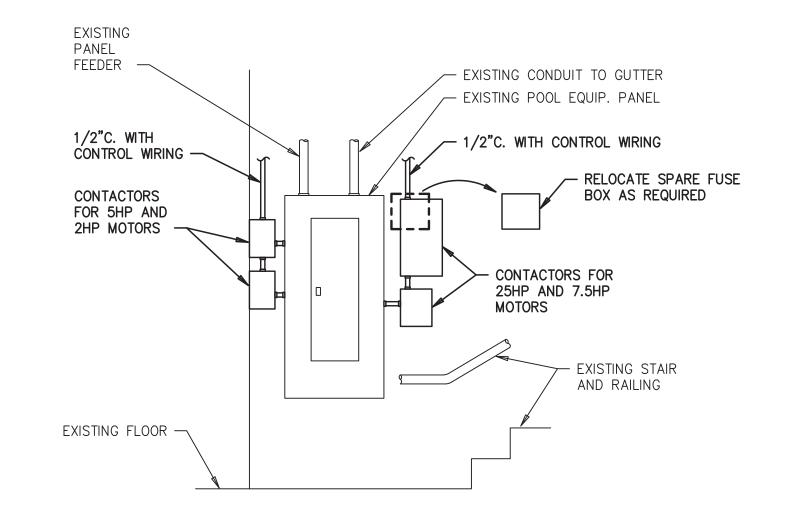
1) EMERGENCY SHUT-OFF STATION AND CONTROL WIRING. REFER TO DIAGRAM 2/SP.11.

(2) PROVIDE 20A-1P GFCI CIRCUIT BREAKER IN EXISTING PANEL.

(3) CONTACTOR. REFER TO SINGLE LINE DIAGRAM.

DIAGRAM NOTES

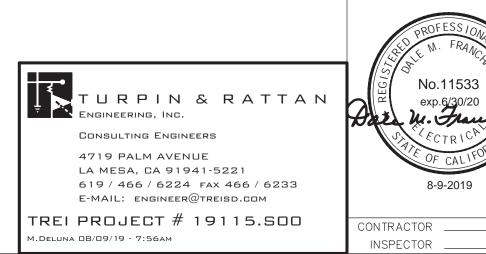




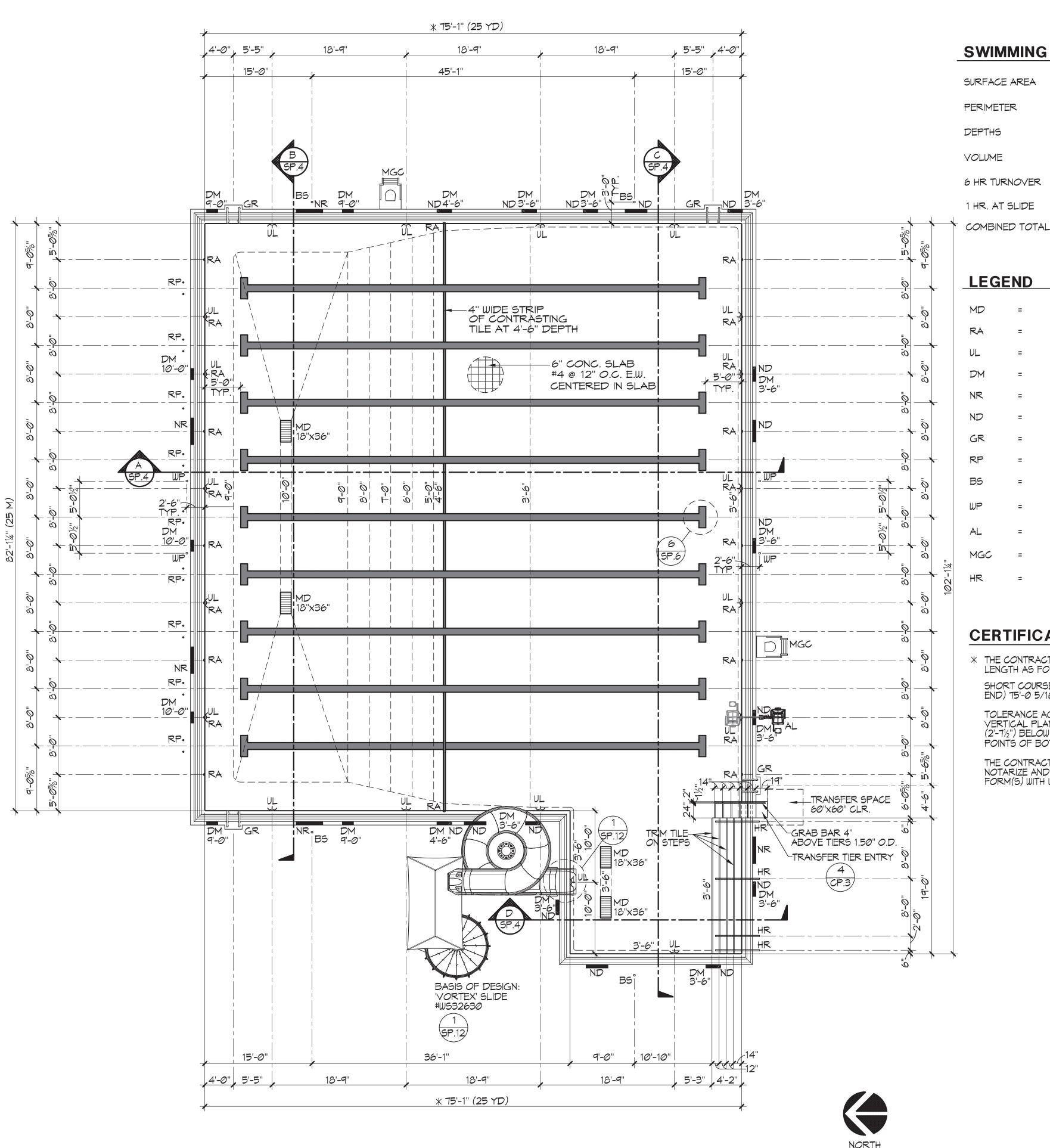
ELEVATION AT NEW CONTACTORS SCALE: NONE \E−601*/*

CITY HEIGHTS POOL RECONSTRUCTION

SINGLE LINE DIAGRAM AND PANEL SCHEDULES



	CITY OF S	WBS <u>B-19068</u>	JEC.				
MAT EIGINEER	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	~	DATE	35403	PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA—MAYO	PRO.	
ugit	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER	<u></u>
OR. III						_	$\stackrel{\frown}{\vdash}$
						CCS27 COORDINATE	$\overline{\mathbb{Z}}$
						1850-6297 	0
			DATE STARTED			41287 - 24 - D	$\overline{\mathbb{Z}}$
			DATE COMPLETED				ш



SWIMMING POOL DATA

SURFACE AREA 6,644 SQ. FT. PERIMETER 354 FT. DEPTHS 3'-6" TO 10'-0" 283,845 GAL.

6 HR TURNOVER 738 GPM 1 HR. AT SLIDE 192 GPM

LEGEND

MD	=	MAIN DRAIN 1 SP.9
RA	=	ROPE ANCHOR 1
UL	=	UNDERWATER LIGHT
DM	=	DEPTH MARKER
NR	=	NO RUNNING 3
ND	=	NO DIVING 3 5 SP.6 SP.6
GR	=	GRABRAIL (1)
RP	=	RACING PLATFORM (3)
BS	=	BACKSTROKE STANCHION 2 SP.7
WP	=	WATERPOLO
AL	=	ACCESSIBLE LIFT
MGC	=	MOVEABLE GUARD CHAIR SP.7
HR	=	HANDRAIL

930 GPM

CERTIFICATION REQUIREMENTS

* THE CONTRACTOR SHALL CERTIFY THE REQUIRED POOL LENGTH AS FOLLOWS:

SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16" MIN.: 75'-1 3/16" MAX.

TOLERANCE AGAINST LENGTH SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.8M. (2'-7½") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

THE CONTRACTOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

- 1. THE FOLLOWING EQUIPMENT WILL BE PROVIDED AT THE SITE:
- A. PROVIDE A SAFETY POLE WITH BODY HOOK, NOT LESS THAN 12 FEET IN LENGTH, SHALL BE PROVIDED FOR EACH POOL. POOL THAT EXCEED 75' IN LENGTH AND 50' IN WIDTH REQUIRE A RESCUE POLE AND LIFE RING ON AT LEAST TWO OPPOSING SIDES OF THE POOL.
- B. PROVIDE A LIFE RING WITH AN EXTERIOR DIAMETER OF MINIMUM 17" AND A 3/16" LINE LONG ENOUGH TO SPAN THE MAXIMUM WIDTH OF THE POOL SHALL BE PROVIDED FOR EACH POOL. POOLS THAT EXCEED 75 FEET IN LENGTH OR 50 FEET IN WIDTH REQUIRE A RESCUE POLE AND LIFE RING ON AT LEAST 2 OPPOSING SIDES OF THE POOL.
- C. PROVIDE A VACUUM CLEANER AND HOSE FOR CLEANING OF POOLS.
- D. PROVIDE A RED CROSS 10-PERSON INDUSTRIAL FIRST AID KIT OR EQUIVALENT ON SITE.
- E. PROVIDE AN OPERATING TELEPHONE.
- F. PROVIDE A BACKBOARD AND HEAD IMMOBILIZER.
- G. PROVIDE A TEST KIT FOR MEASURING FREE CHLORINE, PH AND ISOCYANURATE ACID (WHEN CYANURATE IS FED) IS SUPPLIED.
- 2. WATER DISTRICT: THE CITY OF SAN DIEGO MUNICIPAL WATER AND SEWER DISTRICT
- 3. SEWER: THE CITY OF SAN DIEGO MUNICIPAL WATER AND SEWER DISTRICT.
- 4. THE SITE IS PROPOSING STORAGE OF 55 GALLONS OR MORE OF A HAZARDOUS MATERIAL. A PERMIT WILL BE OR HAD BEEN OBTAINED WITH COUNTY OF SAN DIEGO HAZARDOUS MATERIALS DEPARTMENT. (858) 505-6880.
- 5. PROVIDE POOL CONTRACTOR'S NAME AND LICENSE NUMBER TO COUNTY OF SAN DIEGO DEH FHD PLAN CHECK UNIT PRIOR TO START DATE.

POOL DESIGN CRITERIA

POOL DESIGN CODES

CALIFORNIA BUILDING CODE 2016 ASCE 7-10

POOL DESIGN CRITERIA

PER GEOTECHNICAL ENGINEERING INVESTIGATION BY:

'NINYO & MOORE', FEBRUARY 12, 2019, PROJECT #108716001 WITH ADDENDUM DATED MARCH 7, 2019

DRAINED CONDITIONS (PER SOIL REPORT)

AT-REST PRESSURE: 55 pcf BEARING PRESSURE: 3,500 psf

SEISMIC INCREMENT: 18 H ADDED AT DEPTHS > 6'-0"

SURCHARGE AT DECK

- 1) ASSUME 50% OF VERTICALLY APPLIED SURCHARGE TO ACT AS HORIZONTAL UNIFORM LOAD ON POOL WALL.
- 2) DL = WEIGHT OF 8" MAX. CONCRETE DECK SLAB ABOVE.
- 3) LL DESIGN CASE = POOL EMPTY DURING CONSTRUCTION OR FOR SHORT TERM MAINTENANCE. NO 100 psf LL FOR FULL CROWD OPERATING CONDITION WHEN EMPTY.

CONCRETE DESIGN

fc = 4,500 psi MIN. WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 f_u = 60 ksi

HYDROSTATIC PRESSURE RELIEF VALVES ARE PROVIDED IN POOL FLOOR SLABS TO ESTABLISH A "DRAINED CONDITION" (WHEN THE POOL IS EMPTY) IN THE PRESENCE OF A GROUND WATER TABLE, A PERCHED GROUND WATER CONDITION, OR POOR SITE DRAINAGE.

SP.1

CITY HEIGHTS POOL RECONSTRUCTION SWIMMING POOL LAYOUT PLAN

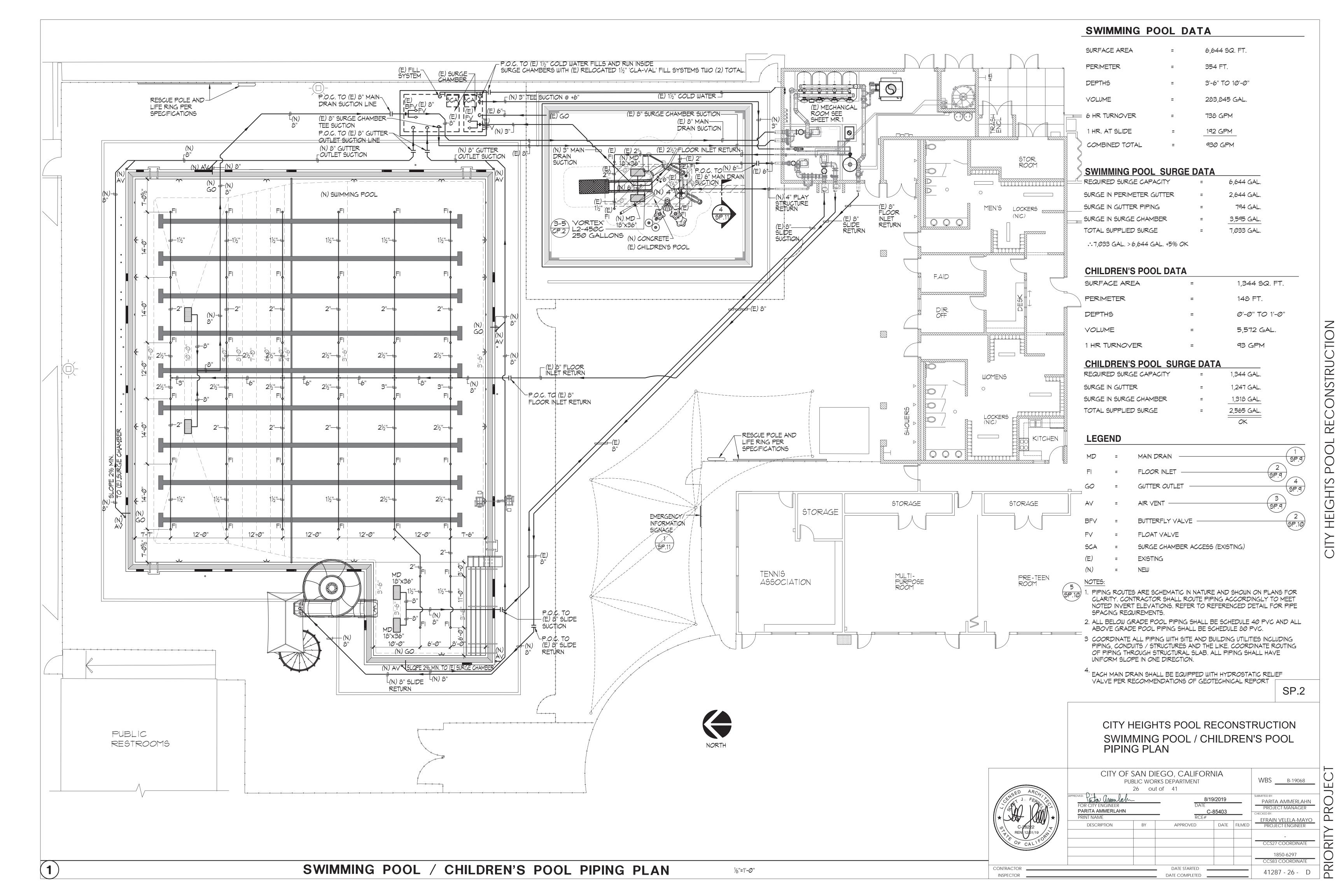


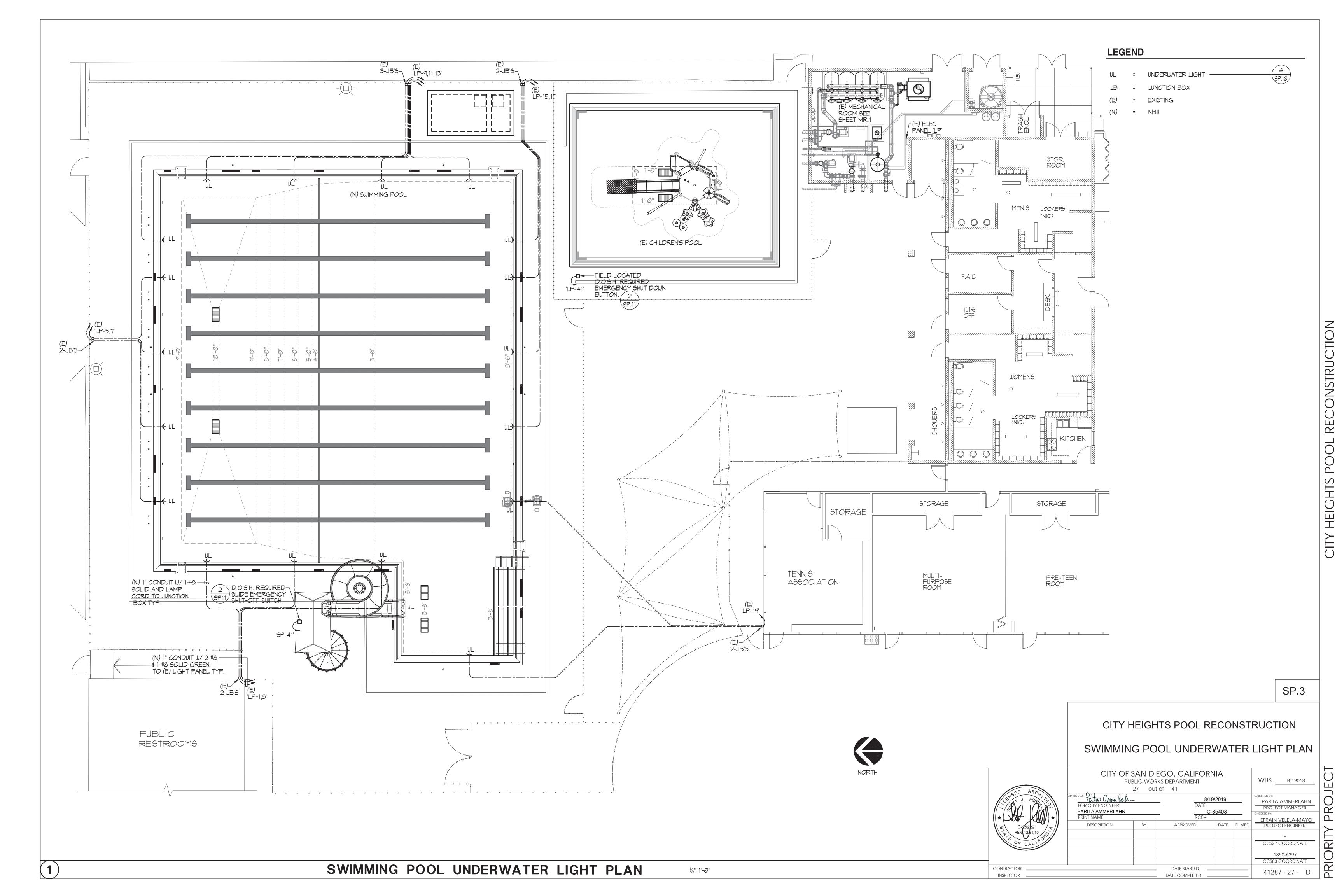
CONTRACTOR

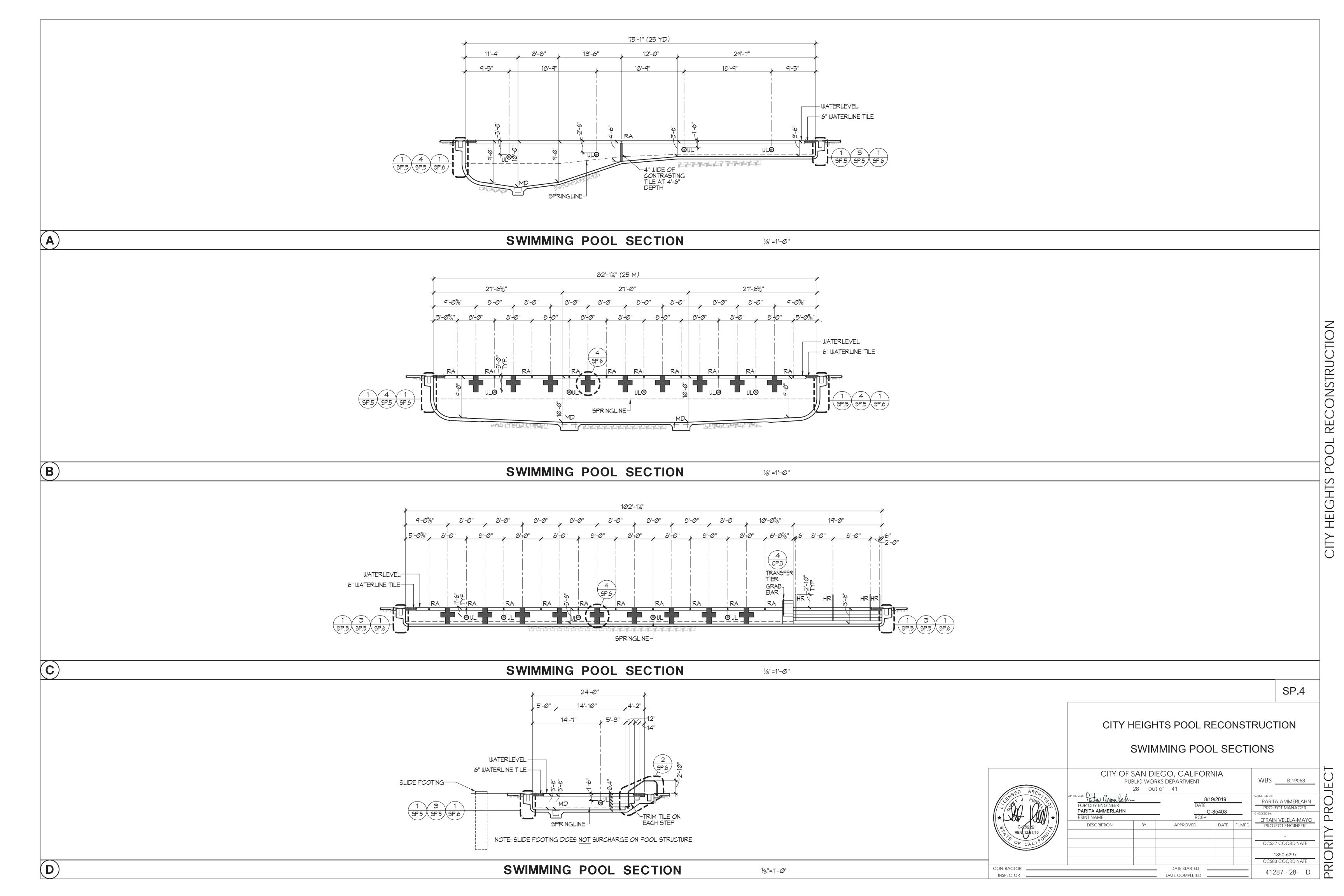
CITY OF	WBSB-19068				
FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME		DATE	/19/2019 C-85403		PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA-MAYO
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
					- CCS27 COORDINATE
					1850-6297 CCS83 COORDINATE
		DATE STARTED			41287 - 25 - D

SWIMMING POOL LAYOUT PLAN

1/6''=1'-0''

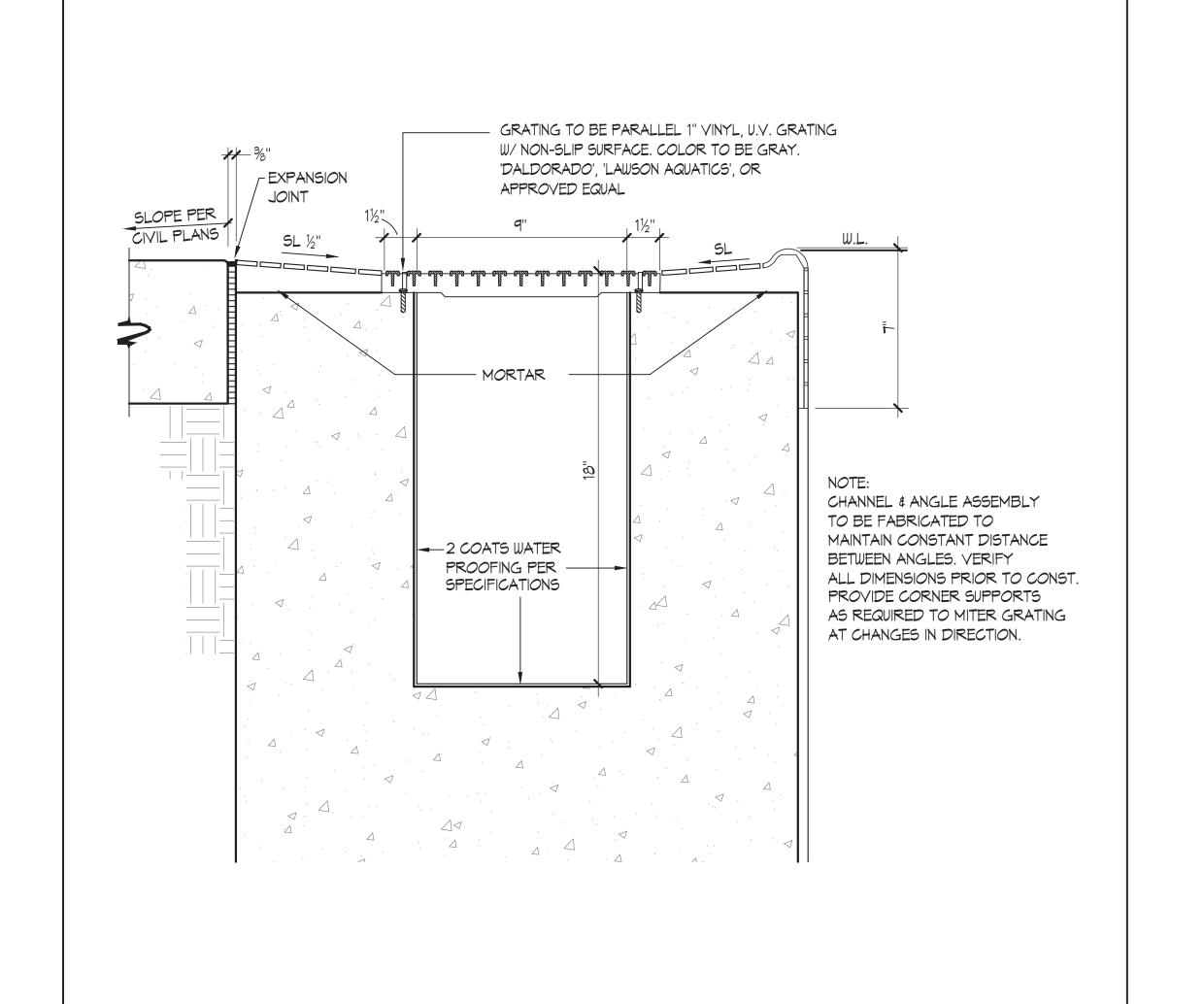


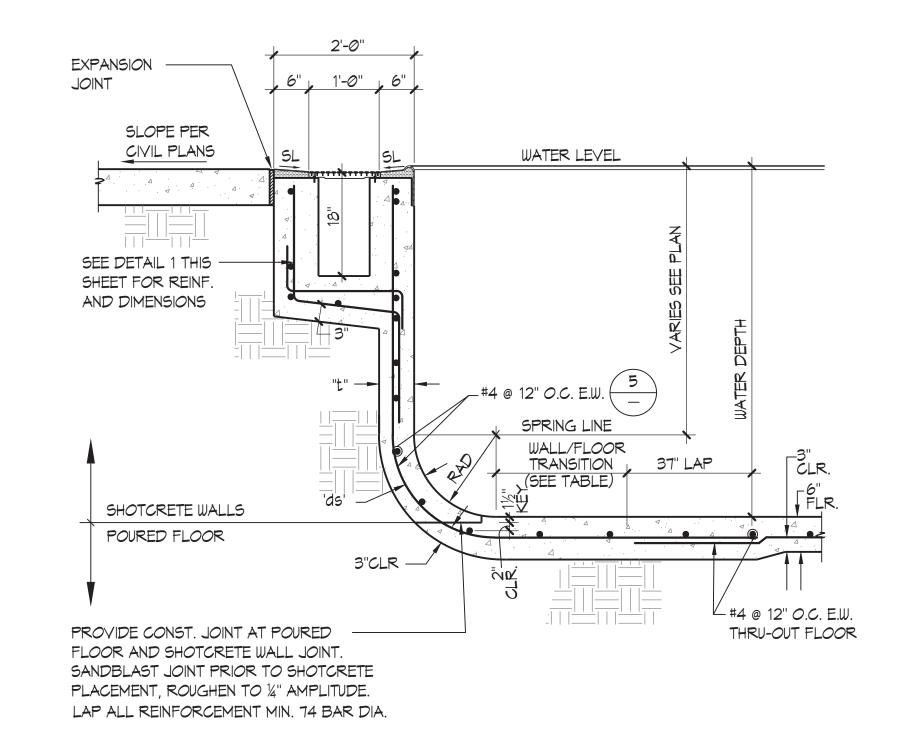




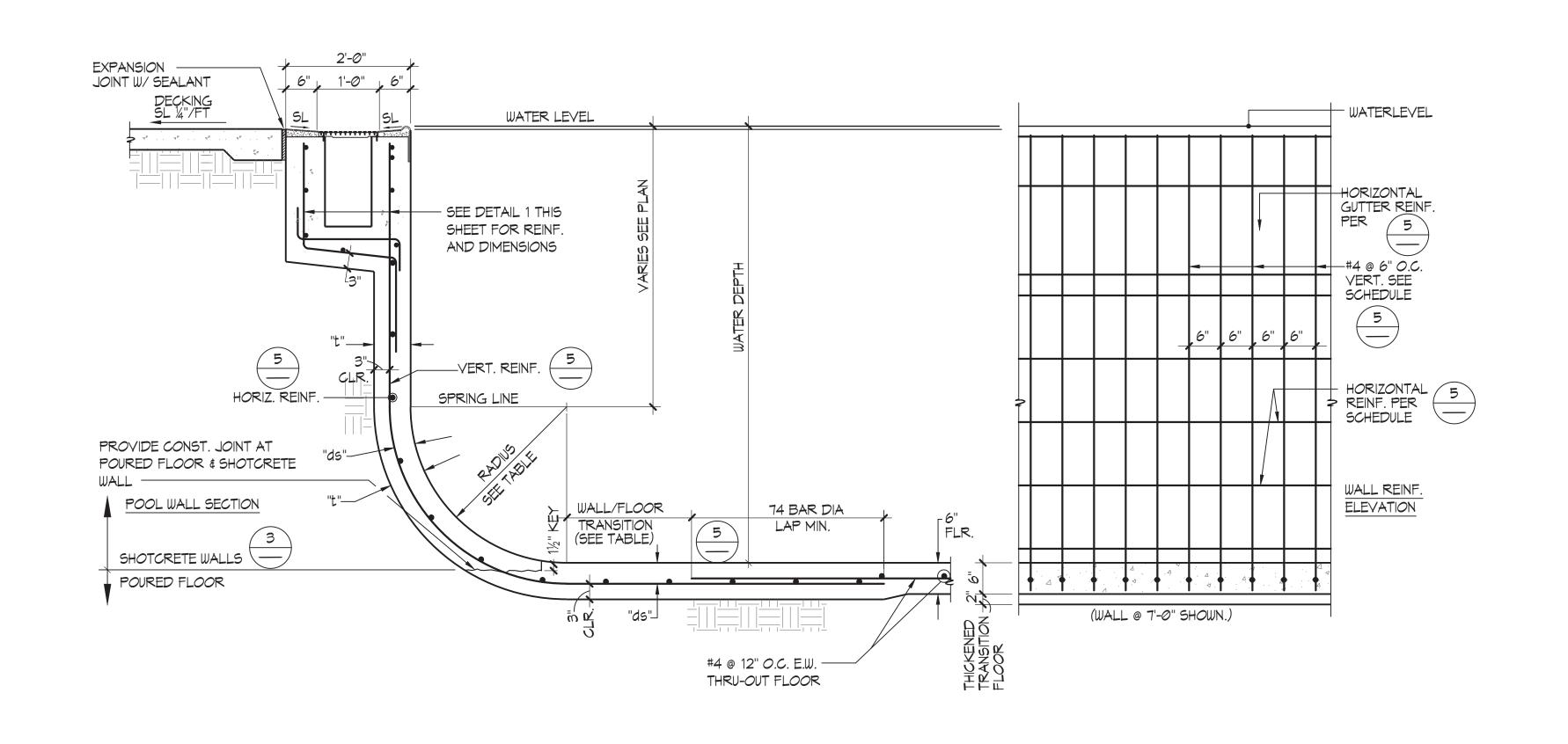


SP.5









GUTTER GRATE (2)

1"x 1" NON-SLIP

- SWIMMING POOL

NOSING TILE 2"X1"

- 7" WATER LINE TILE

GUTTER TILE

WATER LEVEL

4-#4 CONT.

FINISH WITH

#3 @ 12" *O.C.*

SHOTCRETE

-HORIZONTAL REINF

VERTICAL REINF.

6" MIN.

2 COATS OF WATERPROOFING

PER SPECIFICATIONS.

2'-0"

1'-0"

EXPANSION JOINT

SLOPE PER CIVIL PLANS

5-#4 CONT.

3" CLR

#4 @ 12" O.C.-

REINFORCEMENT TABLE						
WATER DEPTH	"t"	"ds"	RADIUS	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF. BEYOND END RADIUS
3'-6" TO 5'-0"	6"	3"	6" TO 18"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"
5'-1" TO 7'-0"	7"	4"	18" TO 2'-6"	#4 @ 6" O.C.	#4 @ 12" <i>O.</i> C.	24"
7'-1" TO 10'-0"	10"	7"	2'-6" TO 4'-0"	#5 @ 6" O.C.	#4 @ 8" O.C.	24"

CONCRETE NOTES:

- 1) THE MINIMUM ULTIMATE
 COMPRESSIVE STRENGTH AT 28
 - POOL = 4,500 PSI SLAB-ON-GRADE = 4,500 PSI WITH
- WATER / CEMENT RATIO OF 0.45 MAXIMUM.

 (2) CONTINUOUS INSPECTION BY AN APPROVED
 INSPECTOR IS REQUIRED OF ALL CONCRETE
 PLACEMENT.
- 3 ALL CEMENT USED SHALL CONFORM TO
- A.S.T.M. C-150 TYPE II/ Y.

 (4) FINE AND COARSE AGGREGATE SHALL

 CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF
- AGGREGATE TO BE 1".

 (5) CONCRETE MIX DESIGNS SHALL BE BASED UPON AC1 318.
- 6 CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION CBC 1705A.3 AND ACI 318.
- REMOVAL OF FORMS SHALL COMPLY WITH ACI-318-14,26.11
 ALL REINFORCING SHALL BE ASTM A-615,
- 8 ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

SHOTCRETE NOTES:

- 1) THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS POOL WALLS = 4,500 PSI. WATER / CEMENT RATIO OF 0.45 MAXIMUM.
- (2) CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL
- SHOTCRETE PLACEMENT.

 3 ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II / V.
- 4 FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE
- OF AGGREGATE TO BE %".

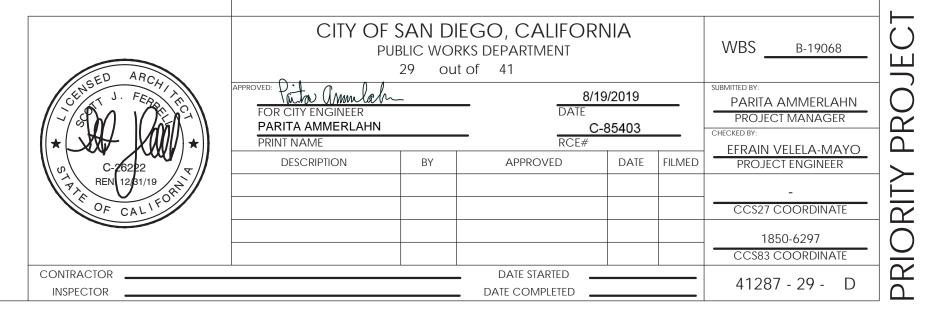
 5) SHOTCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1908A.2.
- 6 SHOTCRETE SHALL BE TESTED AND INSPECTED PER SECTIONS 1705A.3 AND 1908A.5. AND 1908A.10
 3 ANCHOR BOLTS ANCHORS DOWELS INSERTS ETC. SHALL BE SECURELY TIET
-) ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
- ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR
- NON-CONTACT SPLICES.

 (9) THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION
- BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THORUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
- ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

REINFORCEMENT TABLE

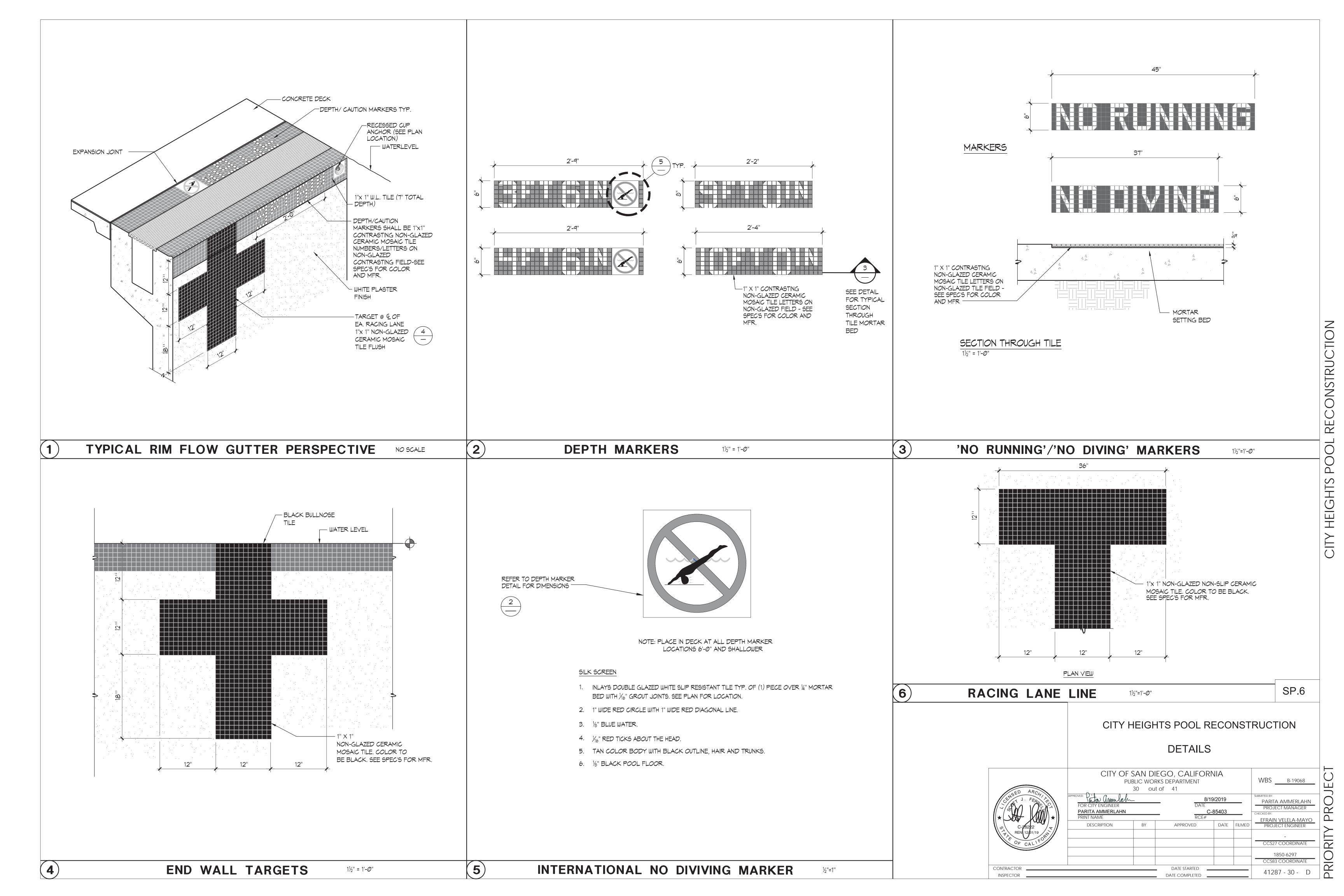
CITY HEIGHTS POOL RECONSTRUCTION



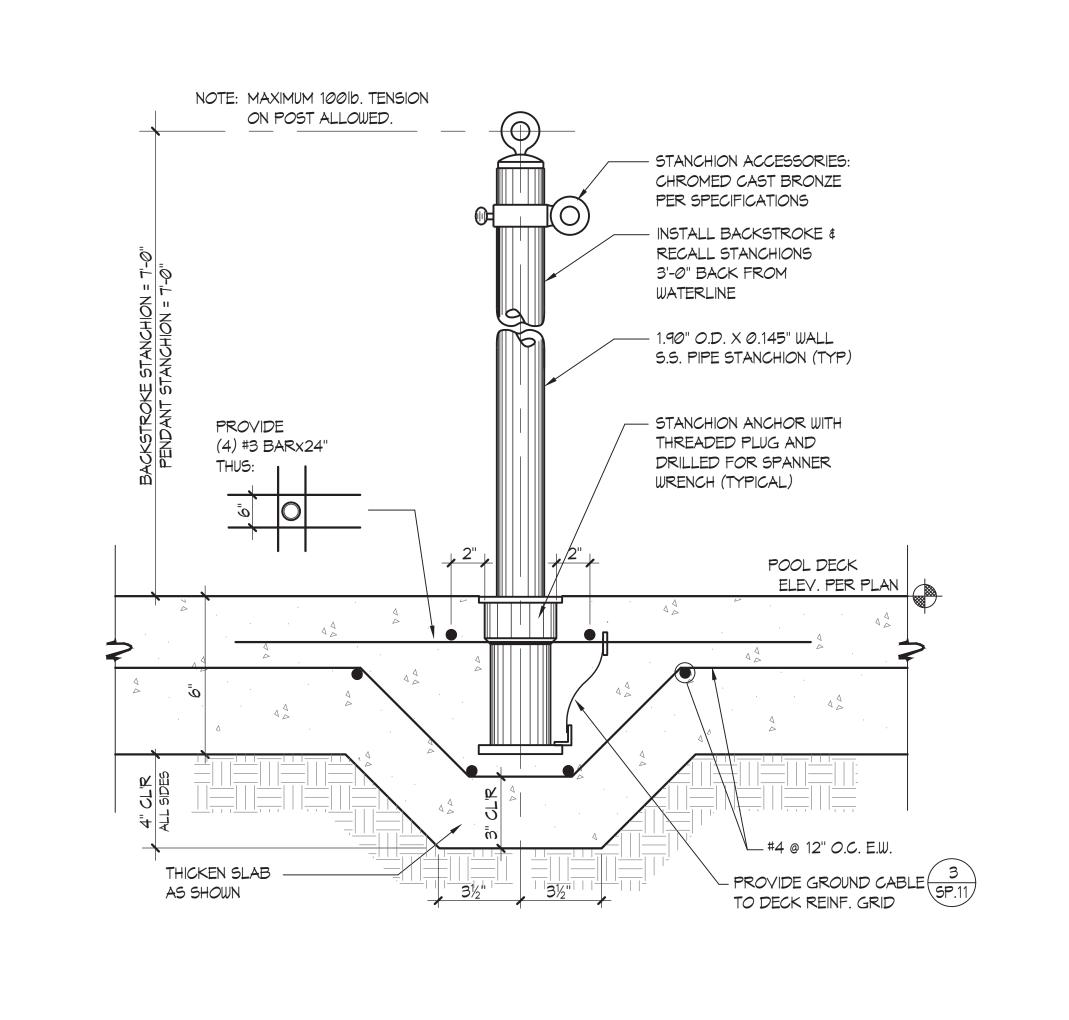


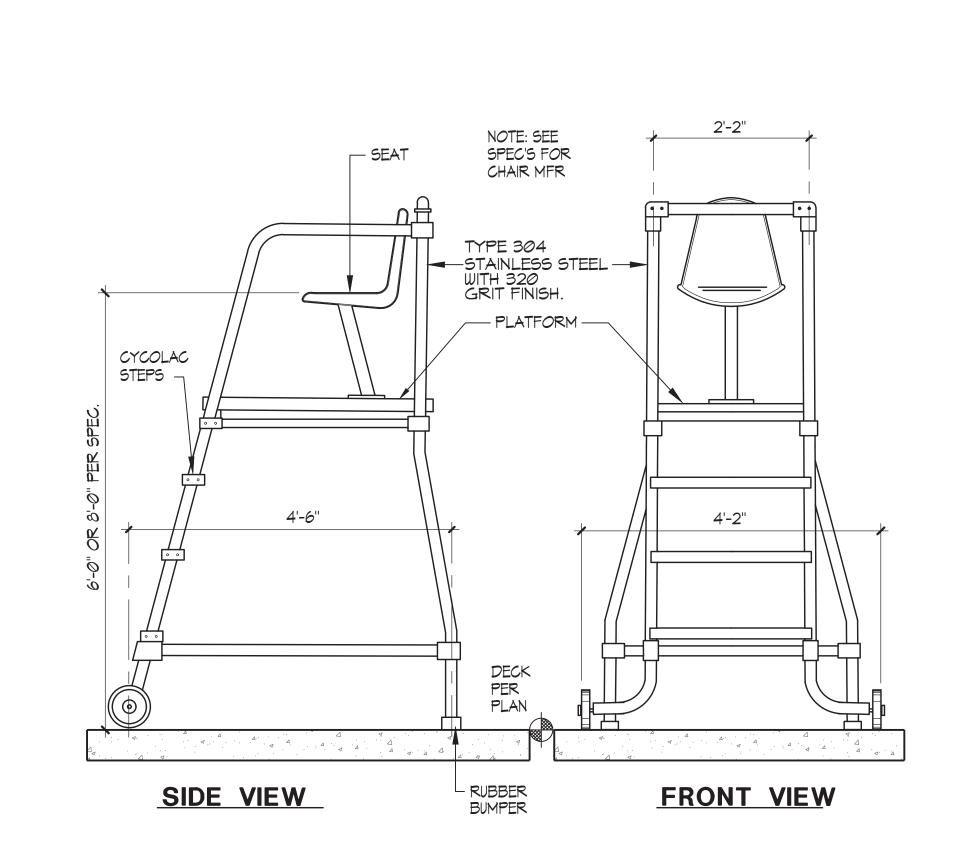
POOL WALL 5'-1" TO 10'-0"

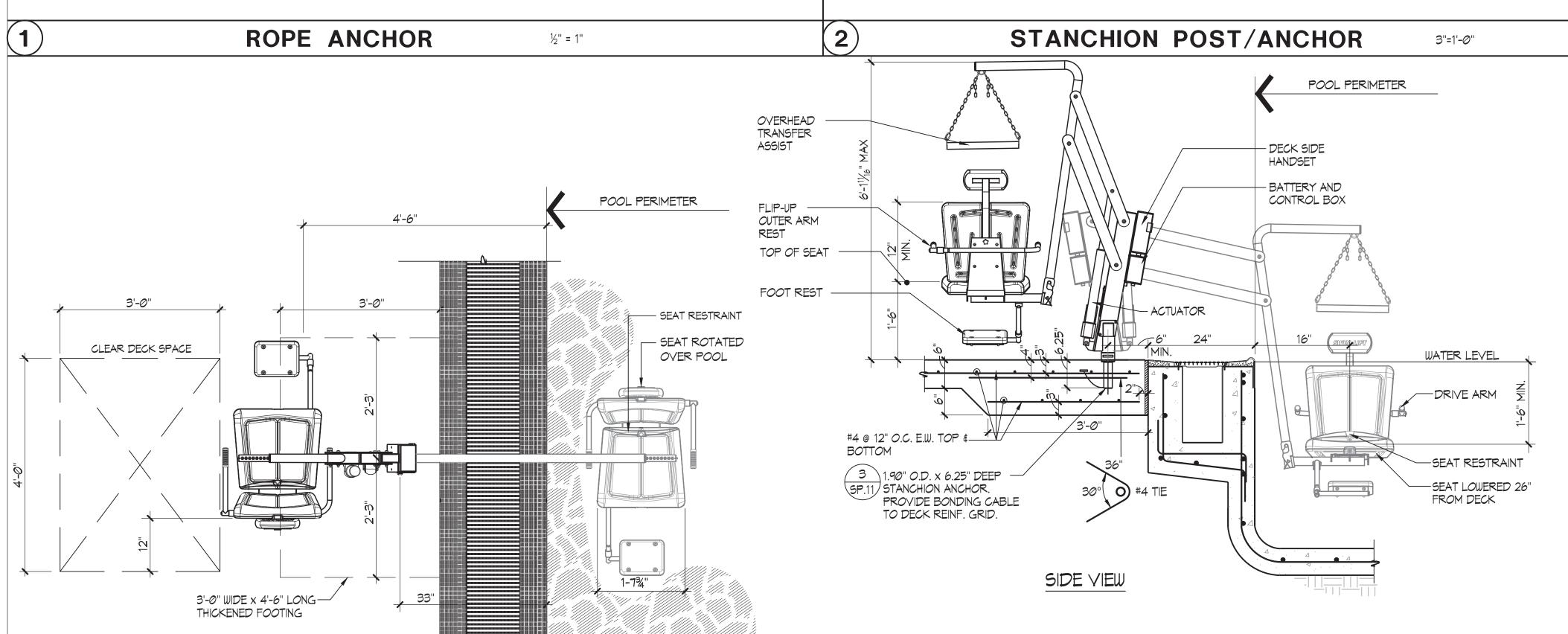
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SPECTRUM' STAINLESS

STEEL COMMERCIAL CUP ANCHOR W/ STAINLESS

STEEL EYEBOLT #35214

FILL SPACE BETWEEN ANCHOR AND SHOTCRETE SOLID WITH NON- SHRINK

TYP. CONTINUOUS

POOL REINF.

DTES:

(3)

- 1. 'SPECTRUM' TRAVELER XRC 500 #26705 (350 lb. MIN. AND 500 lb. MAX. LIFTING CAPACITY)
- 2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
- 3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SPECTRUM' #27365; EXTRA BATTERY PACK 'SPECTRUM' #13257; AND TRANSPORTER CART 'SPECTRUM' #26060.

MOVEABLE LIFEGUARD CHAIR

- 4. UTILIZE OUTLET IN DIRECTOR'S OFFICE FOR ACCESSIBLE LIFT BATTERY CHARGE STATION.
- 5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP. (CBC SECTION 11B-1009.2.1)
- 6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
- 7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE X 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
- 8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
- 9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)

 10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO
- ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)

 11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE
- (CBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)

 12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE
- STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)

 13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION

MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

SP.7

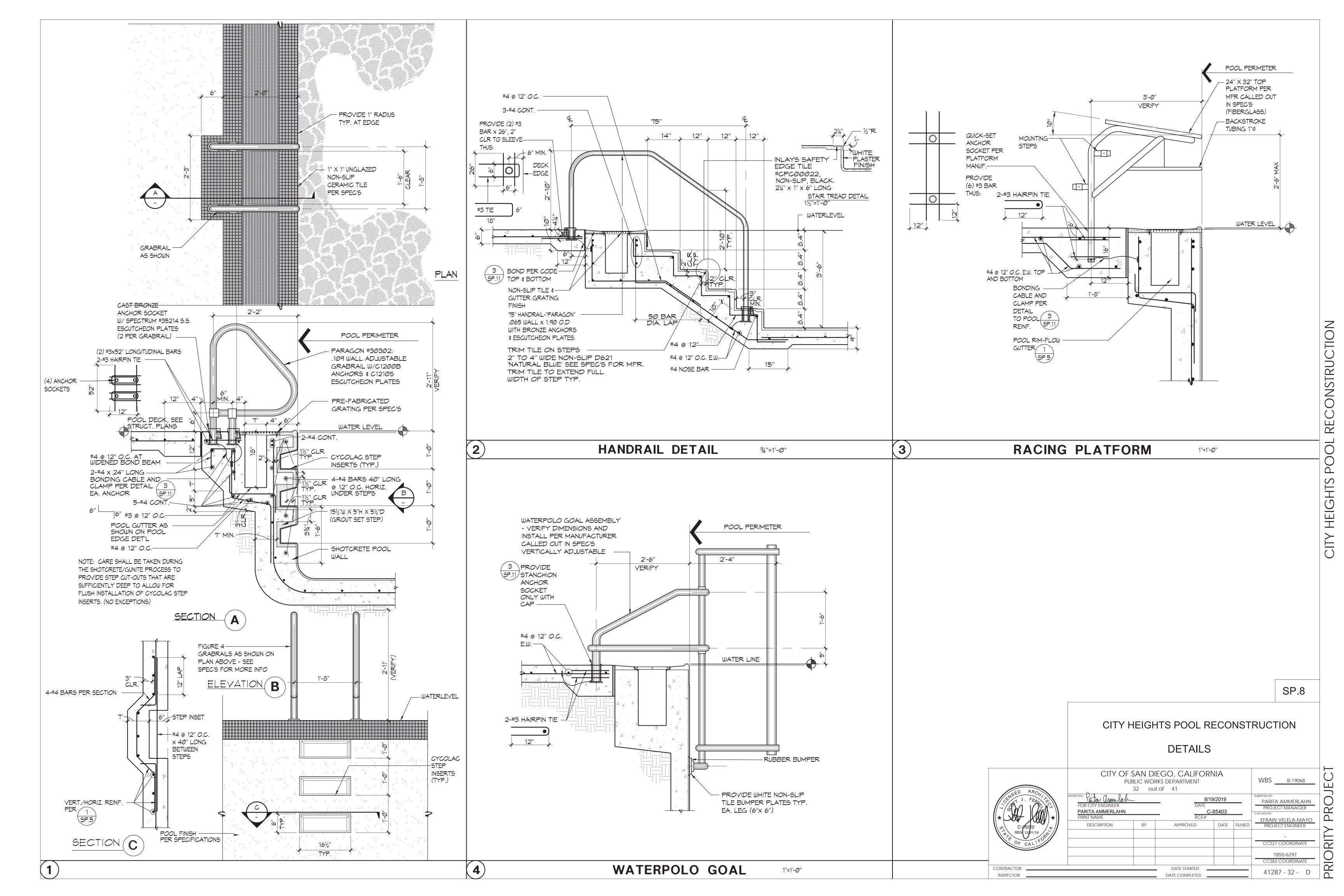
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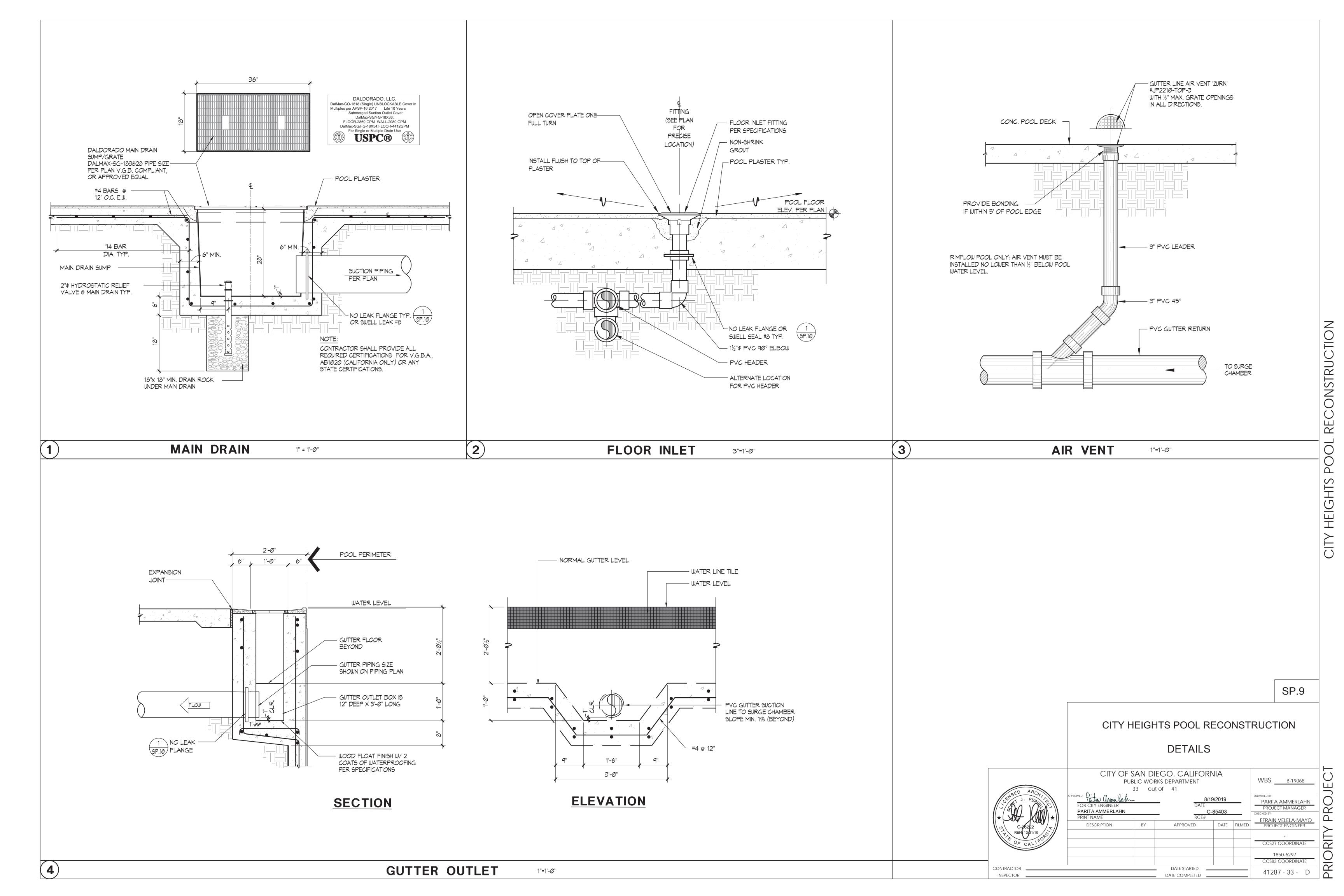
CITY HEIGHTS POOL RECONSTRUCTION

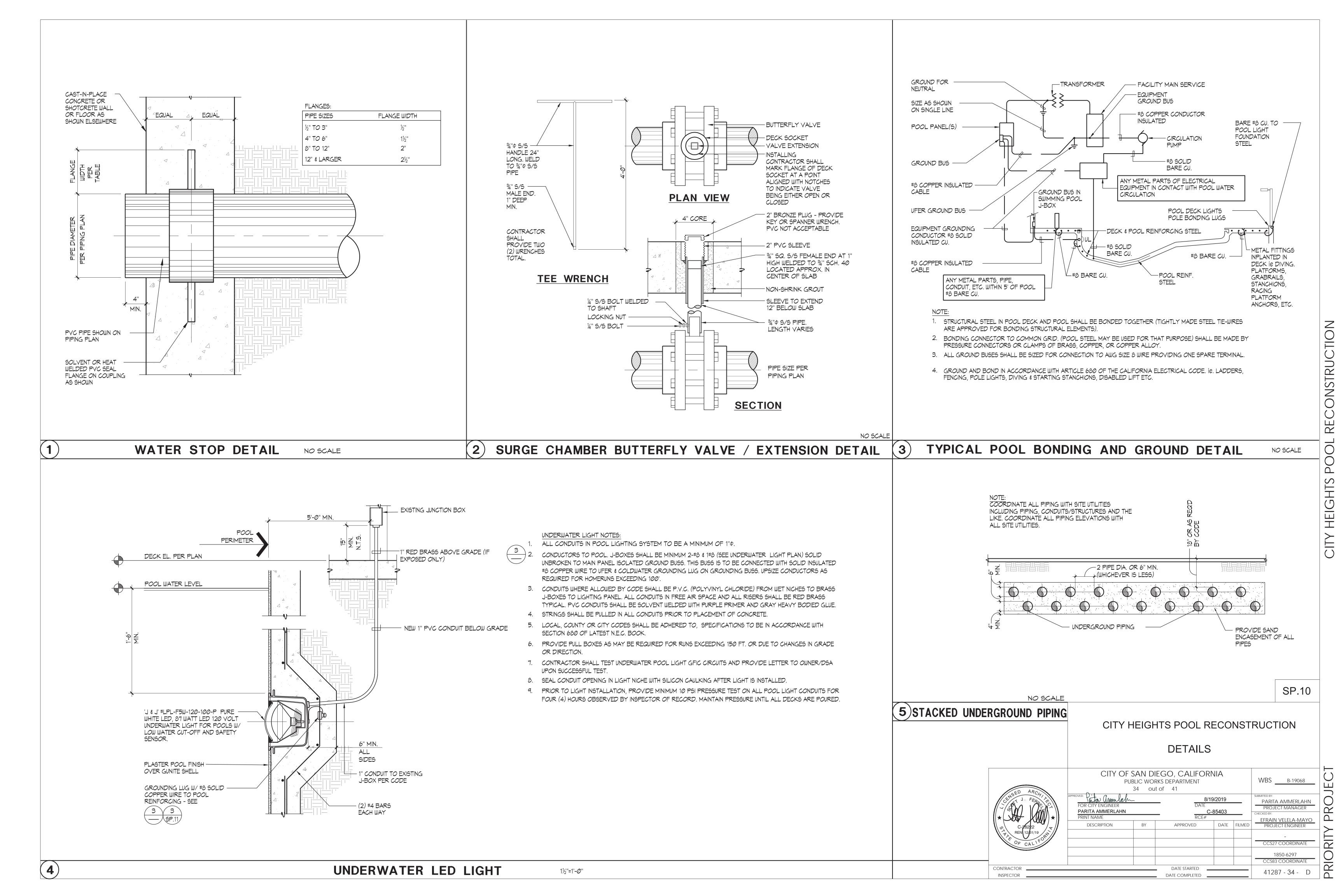
DETAILS

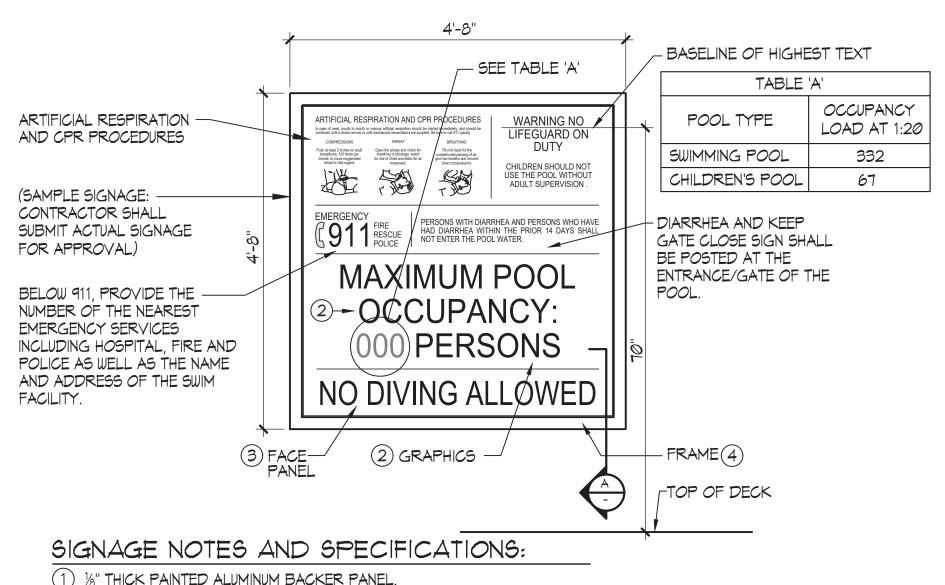
D ARO	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT 31 out of 41					WBS <u>B-19068</u>
CHINGED ARCHIT	FOR CITY ENGINEER PARITA AMMERLAHN PRINT NAME	8/19/2019 DATE C-85403 RCE#			PARITA AMMERLAHN PROJECT MANAGER CHECKED BY: EFRAIN VELELA-MAYO	
C-26222	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
REN 12/31/19						- Í
FOF CALIFOR						CCS27 COORDINATE
						1850-6297
						CCS83 COORDINATE
CONTRACTOR			DATE STARTED .			41287 - 31 - D
INSPECTOR			DATE COMPLETED .			41207-31- D (

BONDING — CABLE AND CLAMP PER









- (1) 1/8" THICK PAINTED ALUMINUM BACKER PANEL
- (2) SILKSCREENED COPY/GRAPHICS WITH NON GLARE FINISH.
- (3) 1/4" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO 1/8" THICK PAINTED ALUMINUM BACKER PANEL USING 'VHB' TAPE AND SILICONE ADHESIVE.
- (4) 2" WIDE X ½" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO ½" THICK PAINTED ALUMINUM BACKER USING 'LORDS' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.
- 1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO
- INSTALLATION. 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SIGNAGE FOR REVIEW.
- 3. CHARACTER FONT STYLE SHALL BE CONVENTIONAL AND NOT UNUSUAL AND SHALL BE EASY TO READ.
- 4. MINIMUM CHARACTER HEIGHT = %"

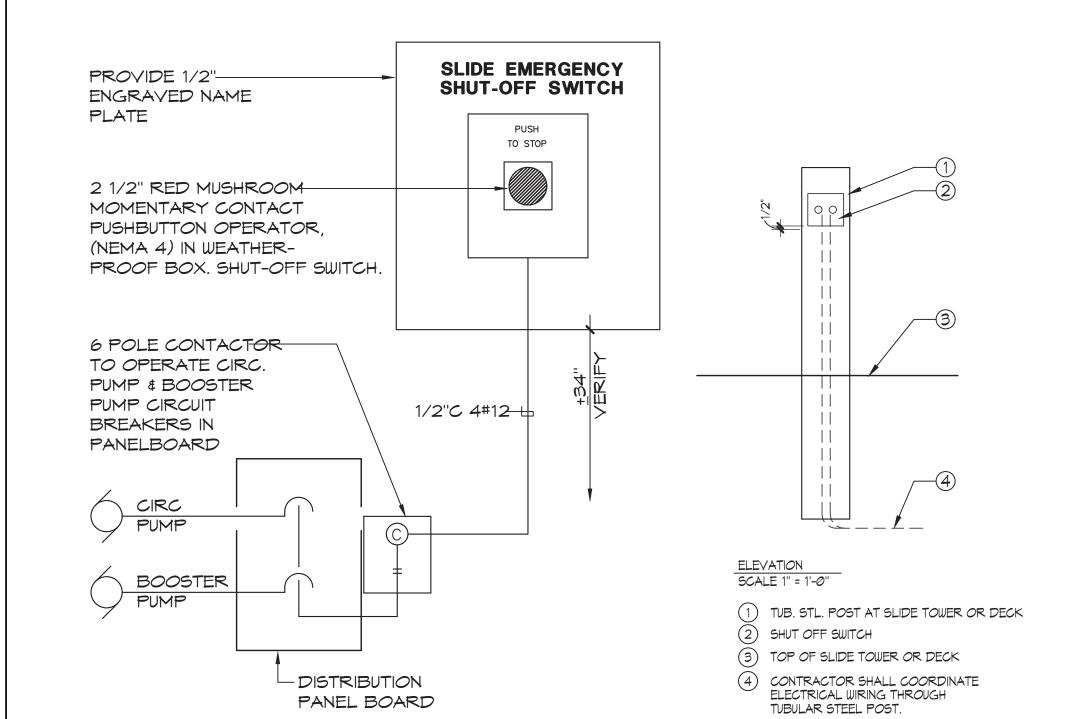
REQUIRED SIGNAGE:

- ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED: AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS
- A. POOL USER CAPACITY SIGN; A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL.
- B. NO DIVING SIGN; SIGNS SHALL BE POSTED IN CONSPICUOUS PLACES AND SHALL STATE 'NO DIVING' AT POOLS WITH A MAXIMUM WATER DEPTH OF 6 FEET OR LESS.
- C. NO LIFEGUARD SIGN; WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED STATING, "WARNING: NO LIFEGUARD ON DUTY." THE SIGN ALSO SHALL STATE IN LETTERS AT LEAST 1 INCH HIGH, "CHILDREN SHOULD NOT USE THE POOL WITHOUT ADULT SUPERVISION".
- D. ARTIFICIAL RESPIRATION AND CPR SIGN; AN LLUSTRATED DIAGRAM WITH TEXT AT LEAST % INCH HIGH OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES SHALL BE POSTED
- E. EMERGENCY SIGN; THE EMERGENCY TELEPHONE NUMBER 911, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED.

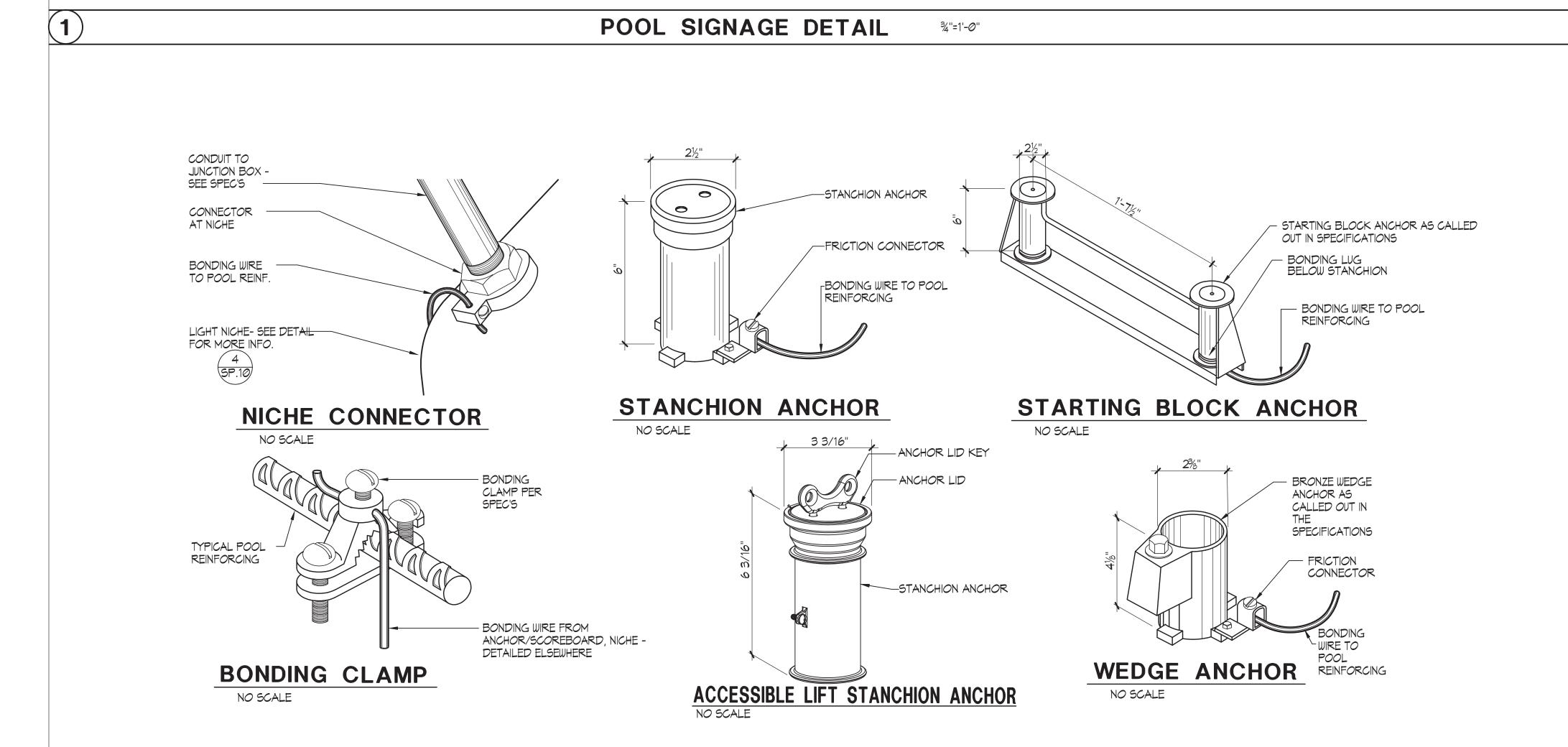
- F. NO USE AFTER DARK; WHERE POOLS WERE CONSTRUCTED FOR WHICH LIGHTING WAS NOT REQUIRED A SIGN SHALL BE POSTED AT EACH POOL ENTRANCE ON THE OUTSIDE OF THE GATE(S) STATING, "NO USE OF POOL ALLOWED AFTER DARK."
- G. KEEP CLOSED; A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."
- H. DIARRHEA; A SIGN IN LETTERS AT LEAST INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT "PERSONS WITH DIARRHEA AND PERSONS WHO HAVE HAD DIARRHEA WITHIN THE PRIOR 14 DAYS SHALL NOT ENTER THE POOL WATER".

2. DIRECTION OF FLOW SIGNAGE AND LABELS.

- A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
- B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
- C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.



NO SCALE

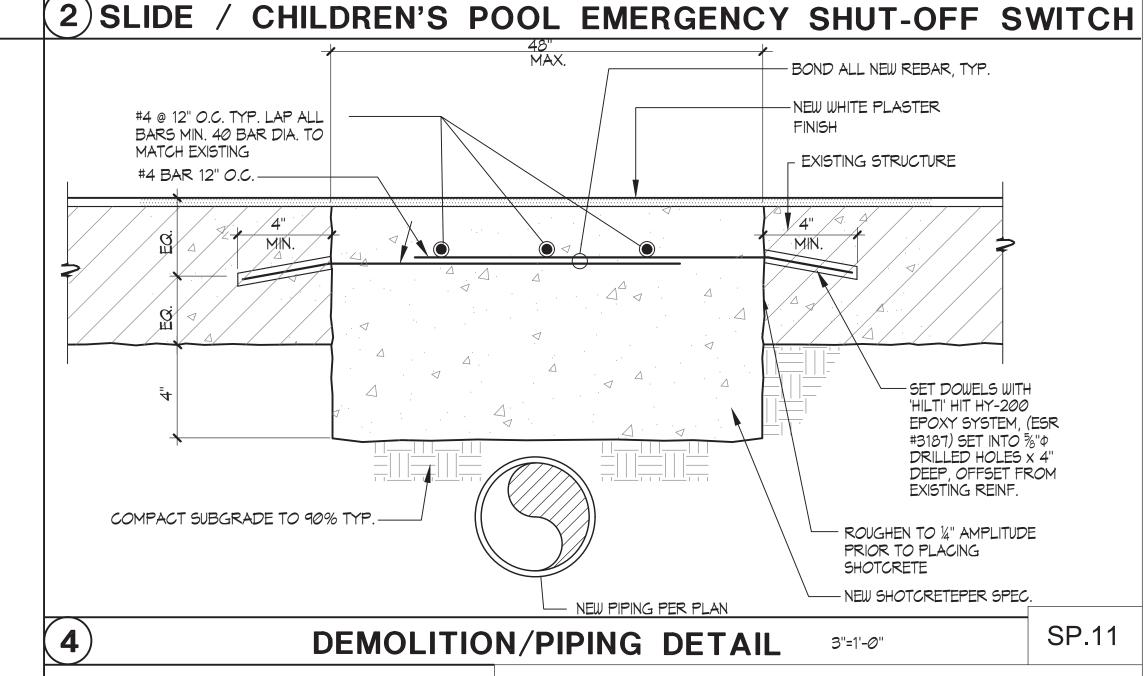


3 FACE— PANEL

-BACKER PANEL (1

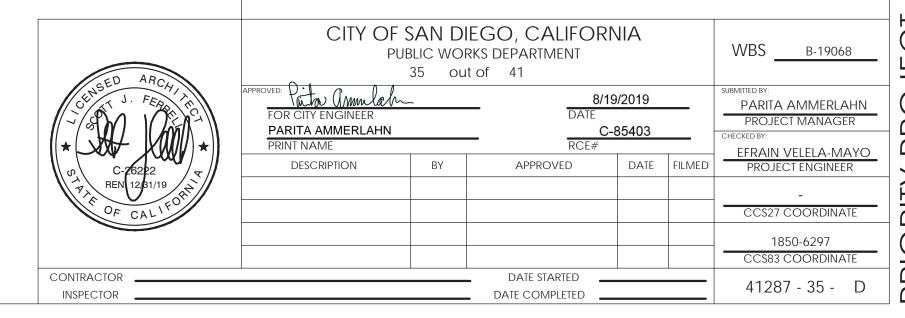
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SECTION



CITY HEIGHTS POOL RECONSTRUCTION

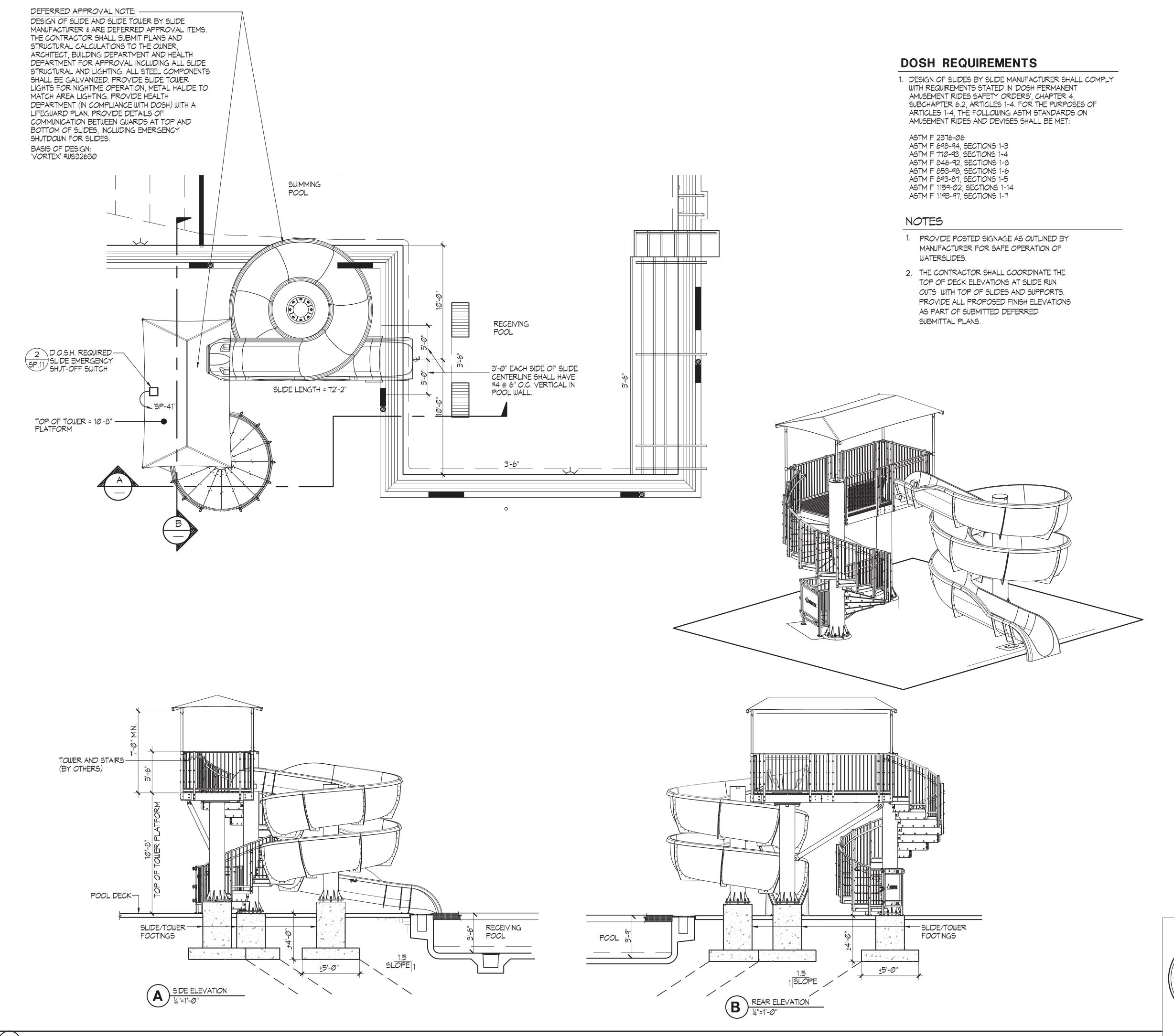
DETAILS



3

BONDING DETAILS

NO SCALE



GENERAL STRUCTURAL BASIS OF DESIGN REQUIREMENTS

1. STRUCTURAL: GENERAL

DESIGN SHALL CONFORM TO 2016 CALIFORNIA BUILDING CODE

ALL CONCRETE SHALL BE CAST IN PLACE AND CONFORM TO ACI 318 OR EQUIVALENT STANDARD WITH MINIMUM MIX PROPERTIES AS FOLLOWS:

4,500 PSI @ 28 DAYS MIN. WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45; $\frac{3}{4}$ " MAX. AGGREGATE

NON-SHRINK NON-METALLIC GROUT SHALL CONFORM TO ASTM C1107/C1107M

REINFORCING STEEL:

DEFORMED BARS FOR CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM A615/A615M OR EQUIVALENT STANDARD WITH A MINIMUM YIELD STRENGTH OF FY=60KSI

4. STRUCTURAL STEEL:

ROLLED SHAPES

GRADES OF STEEL MATERIALS TO BE AS FOLLOWS:

: ASTM A36/A36M (YIELD STRENTH FY = 36 KSI) : OR GB/T 700 GR. Q235.

BASE PLATE & SPLICE PLATE : ASTM A572/A572M GRADE 50 (FY = 50 KSI) : OR GB/T 700 GR. Q345.

: ASTM A36/A36M (FY = 36 KSI) PLATE U.O.N. : OR GB/T 700 GR. Q235.

STEEL PIPE : ASTM A53/A53M GRADE B (FY = 35 KSI) : OR GB/T 700 GR. Q235. J OR 20#.

HSS TUBE ASTM A500/A500M GRADE C (FY = 50 KSI)

: OR GB/T 700 GR. Q345.

METAL DECK : ASTM A653/A653M GRADE SS-33 (FY = 33 KSI)

STRUCTURAL BOLT U.O.N. : FOR DIAMETER 3" TO 1 3" HIGH STRENGTH ASTM F3125/F3125M GRADE A325/A325M, TYPE 1

: NUTS; ASTM A563 GRADE C, HEAVY HEX. WASHERS ASTM F436/F436M (TYPE 1) : FOR DIAMETER 3 AND SMALLER NUTS J995 & WASHERS ASTM F436

ANCHOR BOLT U.O.N. : ASTM F1554 GRADE 36 OR ASTM A36/A36M NUTS ASTM A563 & WASHERS ASTM F436 TYPE-1

WELDING ELECTRODE : E70XX ELECTRODE

SURFACE FINISH:

UNLESS OTHERWISE NOTED, ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED

IN ACCORDANCE WITH ASTM A123, 153 AND RELATED STANDARDS.

HOT-DIP GALVANIZING OF BOLTS, NUTS, WASHERS AND OTHER THREADED PARTS TO ASTM F2329.

DESIGN LOADS SHALL COMPLY WITH CBC 2016, ASTM F2376, AND ASCE 7-10.

A. SLIDES CONSTRUCTION AND OPERATION:

ALL SLIDES SHALL CONFORM TO THE FOLLOWING GUIDELINES WITH RESPECT TO

INSTALLATION AND OPERATION SAFETY: 1) ASTM F2376, STANDARD PRACTICE FOR CLASSIFICATION, DESIGN,

MANUFACTURE, CONSTRUCTION AND OPERATION OF WATER

SLIDE SYSTEMS.

2) ASTM F1487, STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION

B. SPECIAL INSPECTIONS REQUIRED:

OWNER SHALL BE RESPONSIBLE FOR THE INSPECTIONS TO THE FOLLOWING ITEMS (AS APPLICABLE TO THE PROJECT) CBC OR AISC CARRIED OUT BY QUALIFIED PERSONNEL:

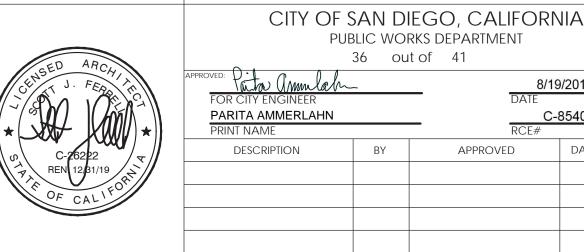
1. SOILS COMPLIANCE PER 2016 CBC
2. CONCRETE CONSTRUCTION PER 2016 CBC
3. STRUCTURAL STEEL WELDING PER 2016 CBC

4. HIGH STRENGTH BOLTS PER 2016 CBC 5. DEEP PIER FOUNDATION PER 2016 CBC

SP.12

SLIDE PLAN / ISOMETRIC VIEW , AND DETAIL

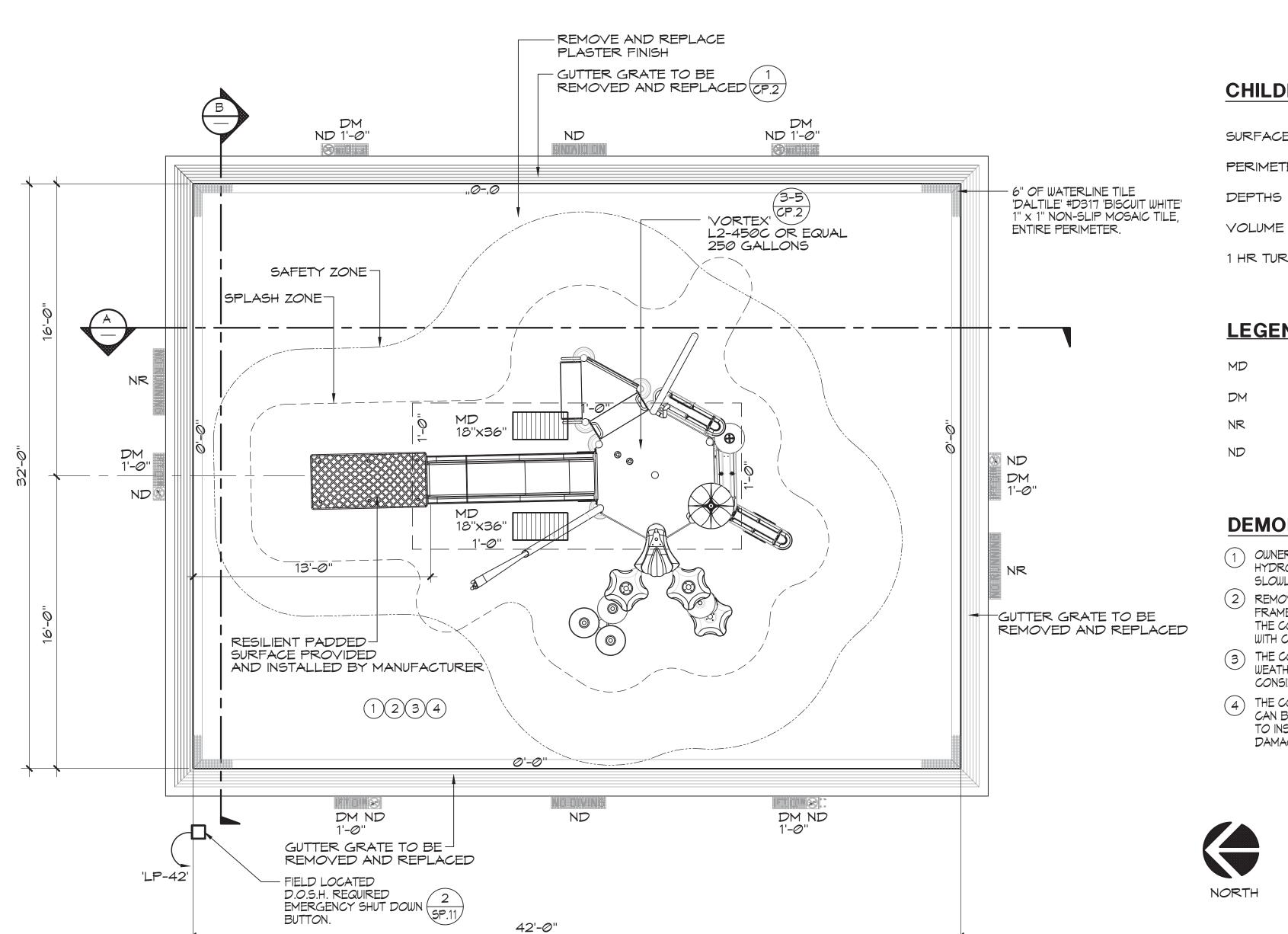
CITY HEIGHTS POOL RECONSTRUCTION



WBS B-19068 PUBLIC WORKS DEPARTMENT 36 out of 41 PARITA AMMERLAHN PROJECT MANAGER EFRAIN VELELA-MAYO APPROVED DATE FILMED PROJECT ENGINEER CCS27 COORDINATE 1850-6297 CCS83 COORDINATE DATE STARTED DATE COMPLETED

SLIDE PLAN / ISOMETRIC VIEW AND ELEVATIONS

CP.1



CHILDREN'S POOL DATA

SURFACE AREA 1,344 SQ. FT. = PERIMETER 148 FT. = DEPTHS 0'-0" TO 1'-0" 5,572 GAL.

93 GPM 1 HR TURNOVER

LEGEND

CHILDREN'S POOL SECTION

MD	=	MAIN DRAIN —	(1 (5P.9)
DM	=	DEPTH MARKER	1 CP.3
NR	=	NO RUNNING	(2) (CP.3)
ND	=	NO DIVING	2 3 CP.3 CP.3

DEMOLITION / CONSTRUCTION NOTES

- $\widehat{\hspace{0.1in}}$ OWNER SHALL BE RESPONSIBLE FOR POOL DRAIN DOWN: CARE IS TO BE TAKEN TO RELIEVE ANY HYDROSTATIC PRESSURE THROUGH EXISTING HYDROSTATIC RELIEF VALVES AND DRAINING THE POOL SLOWLY.
- (2) REMOVE EXISTING MAIN DRAIN GRATES AND INSTALL NEW 18"x36" LAWSON AQUATICS" #MLD-FG-1836 FRAME AND GRATES. THE CONTRACTOR SHALL CERTIFY THE MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT. THE CONTRACTOR SHALL ENSURE THAT MAIN DRAINS MEET CURRENT STANDARDS AND ARE CERTIFIED WITH CURRENT REQUIREMENTS.
- THE CONTRACTOR SHALL INSURE THAT ALL SURFACES ARE PREPARED TO RECEIVE PLASTER FINISH. WEATHER CONDITIONS SHALL BECOME A CRITICAL PART OF WORK AND SHALL BE TAKEN INTO CONSIDERATION AT THE TIME OF PLASTER APPLICATION.
- (4) THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF WORKERS TO INSURE THAT THE ENTIRE POOL CAN BE PLASTERED IN A SINGLE DAY OR SHALL PROVIDE CONTINUAL MISTING OF PLASTERED SURFACES TO INSURE THAT PLASTER IS NOT EXPOSED TO THE AIR FOR A PERIOD OF TIME WHICH WOULD CAUSE DAMAGE IN ANY WAY.

1/4"=1'-0"

DEFERRED APPROVAL:

THE DESIGN OF THE WATERSLIDES AND TOWER ARE BY SLIDE MANUFACTURER & ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, BUILDING DEPARTMENT AND HEALTH DEPARTMENT FOR APPROVAL PROVIDE DOSH APPROVED SIGNAGE, LIFEGUARD PLAN, PROVIDE DETAILS OF COMMUNICATION BETWEEN GUARDS AT TOP AND BOTTOM OF THE STRUCTURE AND SLIDES, INCLUDING EMERGENCY SHUTDOWN FOR SLIDES, AND ALL OTHER DOSH REQUIRED WORK.

BASIS OF DESIGN: 'VORTEX' #L2-450C

DOSH REQUIREMENTS

1. DESIGN OF WET PLAY STRUCTURE AND SLIDES BY MANUFACTURER SHALL COMPLY WITH REQUIREMENTS STATED IN 'DOSH PERMANENT AMUSEMENT RIDES SAFETY ORDERS', CHAPTER 4, SUBCHAPTER 6.2, ARTICLES 1-4. FOR THE PURPOSES OF ARTICLES 1-4, THE FOLLOWING ASTM STANDARDS ON AMUSEMENT RIDES AND DEVISES SHALL BE

ASTM F 2376-06 ASTM F 698-94, SECTIONS 1-3

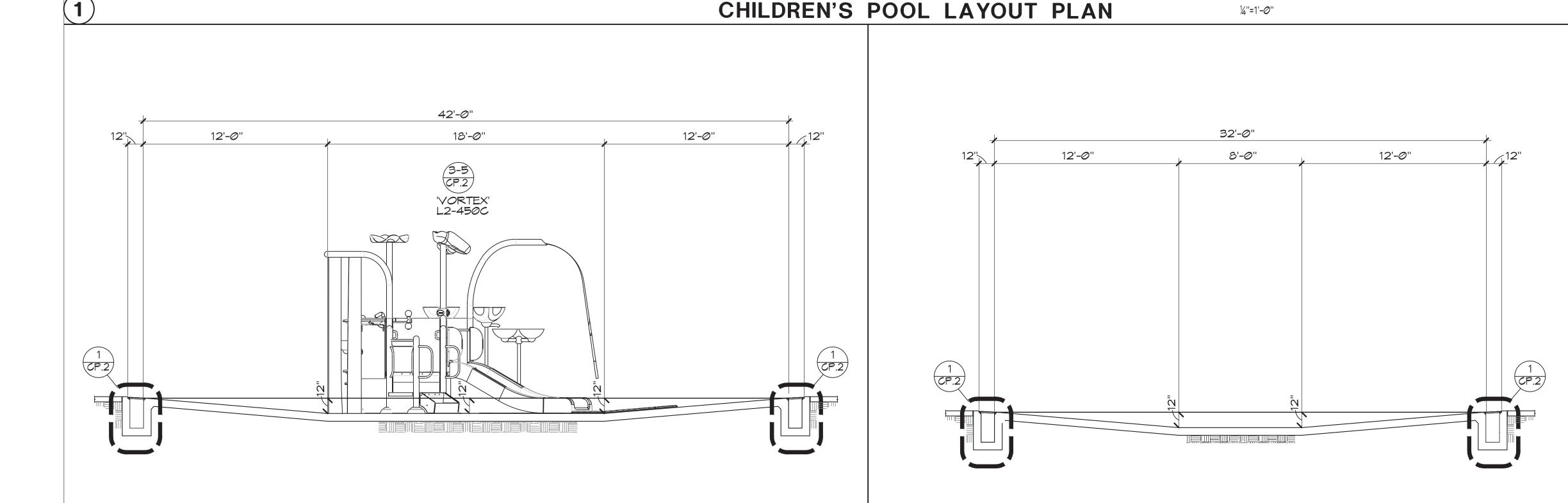
ASTM F 770-93, SECTIONS 1-4 ASTM F 846-92. SECTIONS 1-8 ASTM F 853-98, SECTIONS 1-6

ASTM F 893-87, SECTIONS 1-5 ASTM F 1159-02, SECTIONS 1-14

ASTM F 1193-97, SECTIONS 1-7

NOTES

- PROVIDE POSTED SIGNAGE AS OUTLINED BY MANUFACTURER FOR SAFE OPERATION OF WATERSLIDES.
- 2. SIDE PANELS AT STAIRS AND BOTTOM OF WET PLAY STRUCTURE SHALL BE SECURED TO THE POOL FLOOR AND WET PLAY STRUCTURE.
- 3. STRUCTURAL BASIS OF DESIGN: SEE SHEET SP.12 GENERAL STRUCTURAL BASIS OF DESIGN REQUIREMENTS.



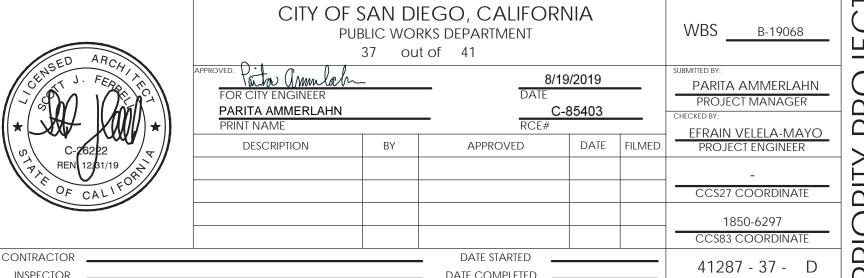
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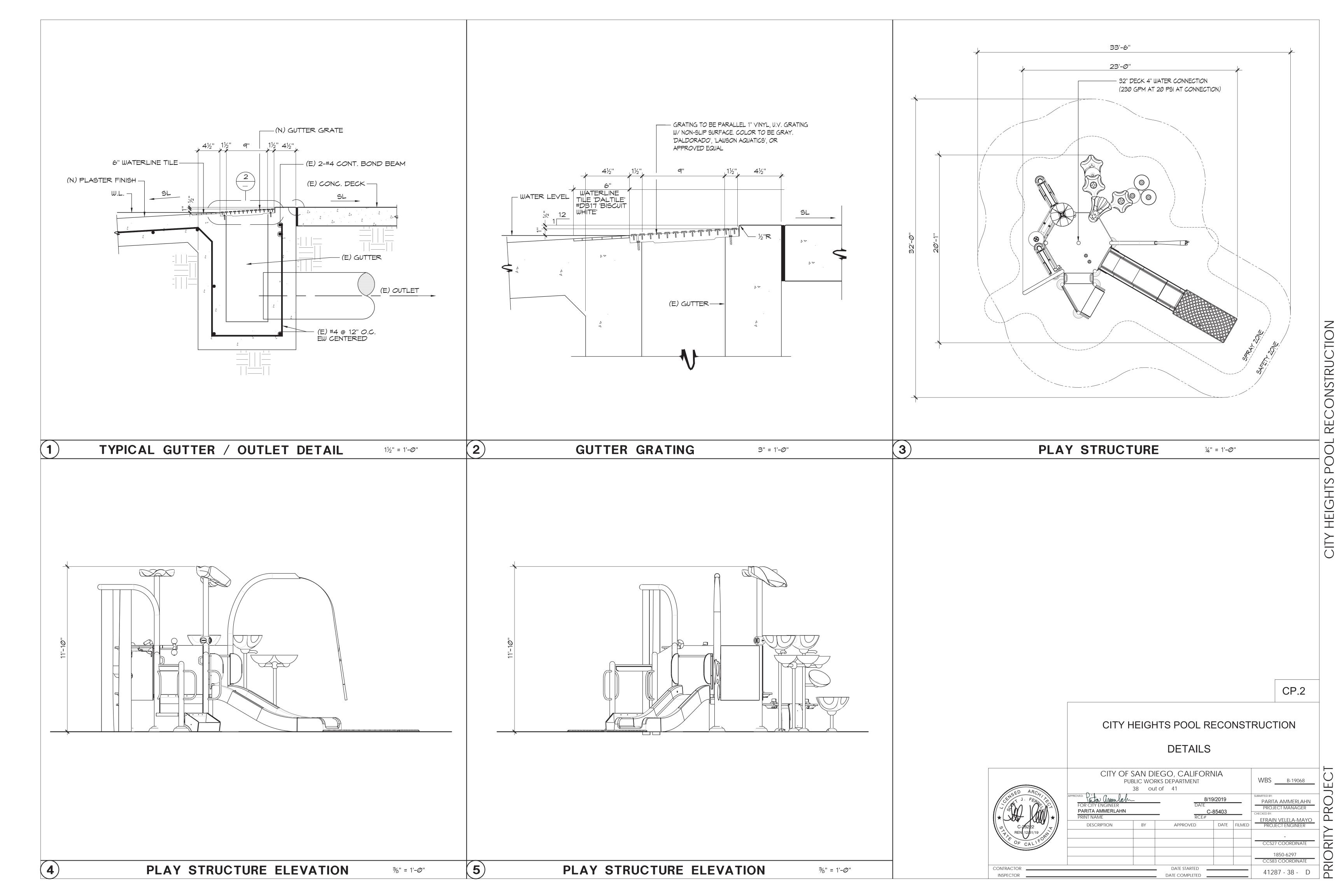
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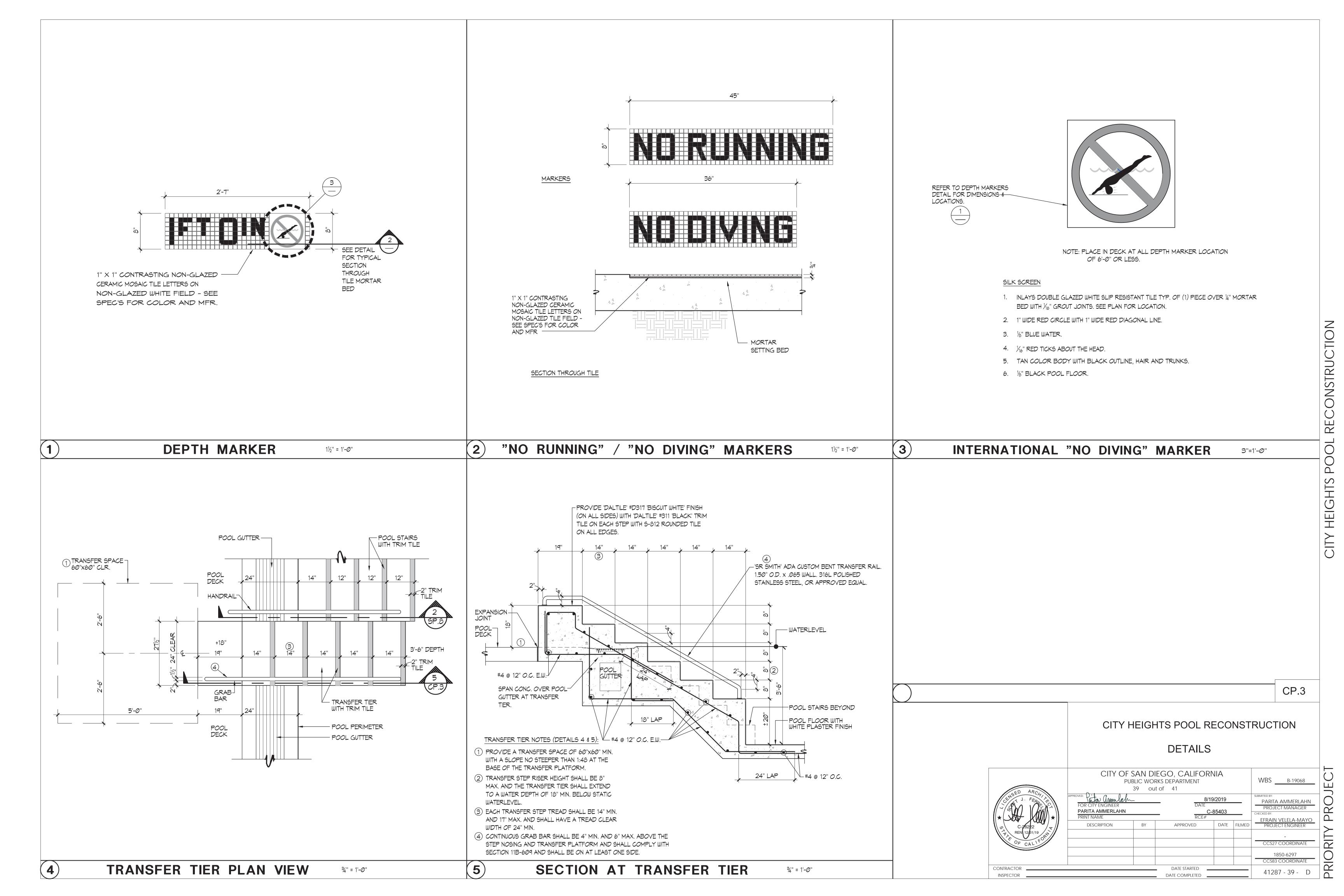
CHILDREN'S POOL SECTION

(B)

CITY HEIGHTS POOL RECONSTRUCTION CHILDREN'S POOL LAYOUT PLAN AND SECTIONS







MR.1

PRIORITY

EQUIPMENT LIST

- (1) (E) CIRCULATION/BOOSTER PUMP STRAINERS TO REMAIN: 'MER-MADE' F.O. SERIES FRP STANDARD/REDUCING WITH ACRYLIC LID. SWIMMING POOL - 8"X6"; SLIDE BOOSTER PUMP - 8"X6"; PLAY STRUCTURE PUMP - 6"X4".
- PROVIDE TWO (2) (N) STAINLESS STEEL STRAINER BASKETS EACH. THREE (3) STRAINERS TOTAL. (N) SWIMMING POOL CIRCULATION PUMP: 'PACO' #5015-7, 5"x6"x15" TYPE 'LC' END SUCTION CENTRIFICAL PUMP: 1150 RPM 208Y 3PH: 20HP: RATED AT 935 CPM @ 60 ET TDH: 87 CENTRIFUGAL PUMP; 1150 RPM 208V, 3PH; 20HP; RATED AT 935 GPM @ 60 FT. TDH; 87% EFFICIENT PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. ONE (1) REQUIRED. 'PACO', 'AURORA' OR EQUAL. (760 lbs.)
- (N) SWIMMING POOL SLIDE BOOSTER PUMP: 'PACO' #5095-7, 5"x6"x91/2" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1150 RPM 208V, 3PH; 71/2HP; RATED AT 800 GPM @ 25 FT. TDH: 87% EFFICIENT; PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. ONE (1) REQUIRED. 'PACO', 'AURORA' OR EQUAL. (760 lbs.)
- (N) CHILDREN'S POOL CIRCULATION PUMP: 'PENTAIR' WHISPERFLO WFK-6, 208V 3PH 1½HP RATED AT 99 GPM @ 60 FT. TDH WITH INTEGRAL STRAINER. ONE (1) REQUIRED. (48 lbs.) 99 GPM @ 60 FT. TDH WITH INTEGRAL STRAINER. ONE (1) REQUIRED. (48 lbs.)
- (5) (N) CHILDREN'S POOL BOOSTER PUMP: 'PACO' #3070-7, 3"x4"x7" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1750 RPM 208V, 3PH, 5HP; RATED AT 250 GPM @ 45 FT. TDH; 87% EFFICIENT; PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. ONE (1) REQUIRED. 'PACO', 'AURORA' OR EQUAL. (360 lbs.)
- (N) REPLACE IN KIND SWIMMING POOL FILTERS: 'EPD-5408' FULLY AUTOMATIC FILTER HI-RATE SAND PERMANENT MEDIA COMPOSITE FILTERS WITH 66 SQ. FT. OF FILTER AREA RATED AT 990 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 8" FACED PIPING, 4" AUTOMATIC BACKWASH, SEISMIC ANCHORAGE. PROVIDE INFLUENT/EFFLUENT GAUGES. (5,005 lbs EA. TANK)
 - (N) CHILDREN'S POOL FILTER: 'PENTAIR' TR-140 WITH 3" FACE PIPING HI-RATE SAND FILTER WITH 3" MULTI PORT VALVE PROVIDING 7.06 SQ. FT. OF FILTER AREA, RATED AT 106 GPM/SQ. FT. OF FILTER AREA. PROVIDE INFLUENT/EFFLUENT GAUGES. (1,000 lbs.)
 - (8) (E) SWIMMING POOL HEATER TO REMAIN: 'RAYPAK' #P-2100 INDOOR HEATER WITH 1,999,999 BTU INPUT, 1½" NAT GAS CONNECTION, 3" WATER INFLUENT/EFFLUENT CONNECTIONS AND 24" PFLUE TO ATMOSPHERE AND CONC. HOUSEKEEP PAD WITH SEISMIC ANCHORAGE.
- (9) (E) CHILDREN'S POOL HEATER TO REMAIN: 'RAYPAK' #P-514 INDOOR HEATER WITH 511,500 BTU INPUT, 1" NAT. GAS CONNECTION, 2" WATER INFLUENT/EFFLUENT CONNECTIONS AND 10" PFLUE TO ATMOSPHERE AND CONC. HOUSEKEEP PAD WITH SEISMIC ANCHORAGE.
- (10) (E) WATER CHEMISTRY CONTROLLERS TO REMAIN: 'BECSYS 5' WITH AUTO PROBE RINSE. INSTALLED PER SCHEMATIC. TWO (2) TOTAL.
- (11) (E) CHLORINE STORAGE/FEED SYSTEM(S) TO REMAIN: PROVIDE 'CHEM-TAINER' 500 GALLON #TC5971DC; DUAL STORAGE/CONTAINMENT TANK WITH SEISMIC ANCHORAGE. SWIMMING POOL PUMP - 'LMI' #C121-362SI: 96 GPD @ 120 PSI. CHILDREN'S POOL FEED PUMP - 'STENNER' #45M-HP10 10 GPD @ 100 PSI.

= 59.4 AMPS

6.6 AMPS

- (12) (E) CARBON DIOXIDE STORAGE FEED SYSTEM(S) TO REMAIN: PROVIDE 6001b. CRYOGENIC STORAGE TANK WITH REMOTE FILL AND SEISMIC ANCHORAGE. SWIMMING POOL/CHILDREN'S POOL FEED: 'STRANCO' #CO2-9 FEED UNIT WITH 20-200 SCFH FLOW ADJUSTMENT. TWO (2) REQUIRED.
- (E) SWIMMING POOL/CHILDREN'S POOL FILL SYSTEMS: PROVIDE 11/2" POMESTIC FILL SYSTEMS TO BOTH POOL SURGE CHAMBERS PER PLANS 'CLA-VAL' HYTROL VALVES WITH CFI FLOAT CONTROLS MOUNTED WITHIN 8" PYC STILLING WELLS INSIDE OF SURGE CHAMBERS. PROVIDE AIR GAP FILL
- (14) (E) FLOWMETERS TO REMAIN: PROVIDE 'SIGNET' MK-515, FLOSENSOR AND DIGITAL READ-OUT IN FILTER MICROPROCESSOR ON SWIMMING POOL AND 'COX' PIRO-FLOWGAGE 21/2" LINE SIZE ON CHILDREN'S POOL PER PLANS.
- (15) (E) PUMP PIT: 12'-0"x12'-0"x4'-0" DEEP BELOW STATIC WL WITH FLOOR DRAIN, 11/2" GALV. STEEL PIPE RAILING 42" TALL, 6" WIDE x 4" TALL CURB AND RUNG LADDER ACCESS.
- (16) (E) ELECTRICAL: PROVIDE COMBINATION STARTERS/DISCONNECTS FOR 3-PHASE MOTORS, PROVIDE PANEL 'LP' - 120/208Y 3PH FOR UNDERWATER LIGHTS AND MECHANICAL ROOM LOADS. PROVIDE INTERCONNECTIONS AND COORDINATION FOR ALL POOL EQUIPMENT TO PROVIDE PROPER OPERATION. REFER TO ELECTRICAL PLANS BY OTHERS FOR ADDITIONAL INFORMATION.

THREE PHASE MOTOR LOADS AT 208V

- SWIMMING POOL CIRCULATION PUMP: 20 HP @ 208V
- SWIMMING POOL SLIDE BOOSTER PUMP: 71/2 HP @ 208V = 24.2 AMPS = 16.7 AMPS CHILDREN'S POOL BOOSTER PUMP: 5 HP @ 208V
- CHILDREN'S POOL CIRCULATION PUMP: 11/2 HP @ 208V

LEGEND

- = EXISTING
- BACKWASH

FLOWMETER

= BUTTERFLY VALVE

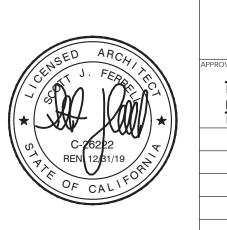
BALL VALVE

CHECK VALVE

VACUUM GAUGE -

CITY HEIGHTS POOL RECONSTRUCTION

EXISTING MECHANICAL ROOM LAYOUT PLAN



CONTRACTOR

CITY OF S	WBS <u>B-19068</u>				
FOR CITY ENGINEER	~	DATE)/2019		PARITA AMMERLAHN PROJECT MANAGER
PARITA AMMERLAHN PRINT NAME		RCE#	85403	CHECKED BY:	
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
					-
					CCS27 COORDINATE
					1850-6297
					CCS83 COORDINATE
	41287 - 40 - D				
	41287 - 40 - D				



