

DIVISION 01 - GENERAL NOTES

- 1.1 It shall be the General Contractor (and/or) the sub-contractor's responsibility to verify all dimensions, details, and job site conditions prior to proceeding with the work, and report any discrepancies to the Architect before starting construction.
- 1.2 All information shown on the drawings relative to existing conditions is given as the best present knowledge, but without guarantee of accuracy. Where actual conditions conflict with the drawings, they shall be reported to the Architect so that the proper revisions may be made.
- 1.3 The Contract drawings and Specifications represent the finished structure and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences, and procedures, including, but not limited to, bracing and shoring. Observation visits to the site by field representatives of the Architect / Engineer shall not include inspections of the protective measures or the construction procedures. Any support services performed by the Architect / Engineer during the construction shall be distinguished from Contract and detailed inspection services which is furnished by others. These supportservices performed by the Architect/Engineer, whether of material or work, and whether performed prior to, during, or after completion of construction, are performed solely for thepurpose of assisting in quality control and in achieving conformance with Contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
- 1.4 All materials and workmanship shall conform to the requirements of the 2022 CBC and COUNTY OF ORANGE 2022 Amendments and all other applicable codes, regulations and laws.
- 1.5 In no case shall working dimensions be scaled from plan or details. Figures on drawings govern scaled measurements and larger scale governs smaller scaled drawings.
- 1.6 Contractors and sub-contractor's shall coordinate with representatives of water, electric, gas, telephone and cable T.V. companies to verify available facilities.
- 1.7 If due to the nature of material or method of construction, details or dimensions as shown on drawings or specified cannot be satisfactorily achieved, the contractor or sub-contractor shall immediately advise the Architect and request any adjustment he considers necessary for the proper execution of the work, this request shall be made before any material is ordered or fabricated. Any unsatisfactory work that develops during fabrication or installation shall be corrected at the Contractor's expense, if the Architect has not been notified.
- 1.8 The Contractor and his sub—contractors shall coordinate their work with adjacent work and cooperate with each other so as to facilitate general progress of work. Each trade shall afford other trades every reasonable opportunity for installation of their work and for storage of their materials. The Contractor shall coordinate all work at the site. All discrepancies shall be called to the attention of the Architect and be resolved before proceeding with the work.
- 1.9 General Notes and Typical Details shall apply to all parts of the job except where they may conflict with Details and Notes on other sheets. Where conditions are not specifically indicated, but are of similar character to Details shown, similar Details of construction shall be used subject to review by the Architect.
- 1.10 Each sub-contractor shall verify and check all dimensions, conditions, grade elevations, and recipient surfaces to determine their suitability to receive required additional construction and finishes. Report immediately any defects in any recipient surfaces or conditions to the Owner in writing.Commencing work indicates acceptance of conditions and surfaces as being satisfactory.
- 1.11 The General Contractor shall be responsible for obtaining and paying for all permits and fees required, not normally covered by the general building
- 1.12 Typical Details shall be used where applicable, and only when no specific detail is shown.
- Any proposed substitutions to the materials or equipment specified by manufacturer's name or trade name, shall be equal or superior to the original or contract in all respects. Architect must be notified in writing. At the Architect's option, detailed specifications, performance data, or samples may be required to be submitted to substantiate the claims of equality.
- Bidder's attention is directed to the requirements of the State of California Business and Professional Code, Division 3, Chapter 9, known as, and ordinarily cited as the "Contractor's License Law". Contractors and sub-contractors, at the time of submission of the Bid, must have the appropriate licenses for the work to be performed under the
- Each bidder shall include all costs of maintaining insurance in compliance with the provisions in the Conditions of the Contract. No successful bidder shall commence work until a Certificate of Worker's Compensation Insurance and Liability Insurance naming General Contractor and Owner as additional insured is delivered to General Contractor.
- 1.16 Sub-contractor shall guarantee all work and material for a period of one year from the date of completion.
- Omissions of conflicts between the various elements of the Working drawings and/or Specs. shall be brought to the attention of the Architect prior to proceeding with any work involved.
- Definition of similar: Nearly, but not exactly the same, having a resemblance.
- A pre-construction meeting with the Architect is required prior to
- building these plans. Inspections are required by the architect during all phases of construction. No walls shall be covered up without the Architects approval.
- Building permits shall be presumed to incorporate the provision that the contractors shall carry out the proposed work in accordance with the approved plans and with all requirements of the code and any other laws or regulations applicable thereto, whether specified or not. No approval shall relieve or exonerate any person from the responsibilty of complying with the provisions and intent of the code.

SUBDIVISION 6800 - FINISH CARPENTRY

See schedules and interior elevations. 25 lineal feet of exterior wall, with one opening within 3 feet of end

6800.1 Provide all materials, tools, appurtenances, and equipment necessary to complete all Wood Finish, Cabinet Work, and Millwork. as indicated on the drawings and/or described in these Specification. Work shall consists of but not necessarily be limited to:

Schedule Of Work To Be Included:

- Visiting the site prior to bidding. Studying the complete bid documents.
 Interior trim including, but not limited to the following:
- Handrails at all stairs
- Doors Wood shelvina
- Field measurĕments and instructions Cooperation with others
- aminate plastic counter and splash at back bar. Apron under all bar tops as needed.

6800.2 Grading — Plywood

- A. For general purposes, shall be Douglas Fir, Grade A—C, Cabinet doors shall be Grade Birch B or better.
- B. For general shelving purposes, shall be Douglas Fir edge banded with B or better Douglas Fir, with supports
- 6800.3 Grading Cabinets and Case Work
 - A. Drawers shall be provided with Garcy No 393 ball-bearing, self-closing drawer glides.
 - B. Clothes poles shall be 1-1/4" round chrome rods, with intermediate supports for spans longer than 4'. Not a part of hardware allowanice.
 - C. Submit shop drawings for all cabinet work for approval.

6400.4 Grading — Sliding Door Hardware

Furnish and installed by General Contractor. Hardware for double sliding doors between Living Room and Den shall be Grant Sliding Hardware 7000 or equal. Complete with interlocking hardware for sliding of each pair into side p'ockets.

- A. Door trim -1-5/8" doubled casing, finger joint pine.
- B. Base trim -2-1/4" reversible, finger joint pine.
- Window trim -2-11/16" with round edge apron

6800.6 Handrails

2-1/4" oval flat bottom d.f. stained. Required at all stairs.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

SUBDIVISION 7100 - Insulation Shop drawing submittal required

- 7100.1 Mineral fiber type, conforming to Federal Specification HH— 1—521e, Type II or III and meets CEC quality standards.
- 7100.2 Each batt shall be marked with the "R" value of the insulating fiber only not the installed "R".
- 7100.3 Furnish and install mineral wool insulation batts as manufactured by Johns-Manville. Owens-Corning Fiberglass, or approve equal, in accordance with manufacturer's printed instructions. Install in areas values as follows:

Roof/ceiling R-30 Stud-exterior R-13 Interior— wall R—11

- Floor (over unheated) R-19 Floor (over exterior space) R-19
- 7100.4 Upon completion of the installation of the insulation, both the Builder and the insulation applicator shall execute a card certifying that the insulation has been installed in conformance with Article 5, Sub—chapter 1, Chapter 1, Title 25, of the California Administrative Code. The card must be posted in a conspicuous location within the building, prior to final inspection.
- 7100.5 At plumbing walls, with waste lines only, stud space to be fully
- 7110.6 Insulation used in sound control assemblies may be either fiberglass or mineral wool, but the material should have at least one open face to provide proper acoustical absorption.

SUBDIVISION 7200 - Roofing

All work to conform to 2022 CBC and COUNTY OF ORANGE amendments. Also, see structural notes and specifications. Shop drawing submittal required.

Installation as per manufacturer?s recommendations. For additional info see Spec-1 for Ice & Water shield.

- 7200.1 Guarantee Contractor shall guarantee all material and workmanship for a period of two years from the date of completion. Material awareness as specified.
- 7200.2 Independent roof inspection is required during and at the completion of work to certify approved certification.
- 7200.3 Underpayment to be minimum of 30 lb. typical.
- 7200.4 Hips and Ridges Should be fabricated to attain harmonious appearance. Use strip of 30# felt about 12" wide over the crown of all'hips and ridges.
- 7200.5 Valley and Flashing All valleys to be under laid with a strip of 30# felt applied over sheathing and extend at least 10" on each side of center line. Roof valley flashing to be not less than 24 gauge galvanized metal extending at least 18" each way from centerline, and have a splash diverter at least 1" high at the flow line section of flashing to overlap a minimum of 6".
- 7200.6 Sloped Roof-See plans for specifications
- 7200.7 Supply all roofing sheet metal or coordinate with sheet metal sub-contractor..
- All work to conform to 2022 CBC and COUNTY OF ORANGE Amendments and SMACNA. Also, see details and specifications. Shop drawing submittal required.
- 7400.1 Sub-contractor shall furnish all material, labor, equipment, services, and competent supervision to install the sheet metal work.
- 2 Sheet metal contractor shall fabricate and install ALL FLASHING REQUIRED FOR WATERTIGHT JOB, and not be limited to the following:
 - A. Scuppers and flashing for all balconies and entries.
 - B. Copings and gravel guards, when gravel roof.
 - C. All attic vents, see Attic ventilation calc. On roof plan.
 - D. Drip flashings hemmed exposed edges ? 1 piece.
 - E. Flashings at roofs and planters and pot shelves.
- 7400.3 Supply and install mechanical exhaust fan ducts, Z—bar flashing, roof to wall flashing, coping on all parapets, gravel slops, downspouts, leader heads and gutters, and plaster base screeds.
- 7400.4 Supply and install Z-bar flashing, roof to wall flashing, coping on all parapets, gravel stops, downspouts, scuppers, leader heads and gutters, and plaster base screed. Coordinate with roofing sub-
- 7400.5 All sheet metal shall be 26 gauge bonderized unless otherwise specifically noted.

SUBDIVISION 7900 - Weather-stripping

All work to conform to 2022 CBC AND COUNTY OF ORANGE Amendments. Also, see structural notes and specifications. Shop drawing submittal required.

- 7900.1 All exterior doors to receive 4" bronze anodized interlocking thresholds with spring type jamb and head weather-strip. Provide a rain strip on all doors exposed to weather. Provide a matching
- 7900.2 Install thresholds prior to carpet and subsequent to finish decking and/or all hard surface materials.
- 7900.3 All pairs of doors, if shown on plans, to receive matching door T—astragal at center of opening.
- 7900.4 Caulk all exterior door thresholds with clear flexiseal sealant prior to
- 7900.5 All exterior doors and windows shall be fully weather stripped. 7900.6 Caulk all exterior joints around windows and door frames, between wall panels.
- 7900.7 Caulk openings for all electrical and plumbing penetrations.
- 7900.8 Flash all exterior openings with Moistop, all tape shall be tight.

DIVISION 08 - DOORS AND WINDOWS

Also see Door and Window Schedules Comply with The City Security Requirements

- SUBDIVISION 8700 Security Finish Hardware
- 8700.1 All openings at ground floor are security opening and the following notes shall apply:
 - A. Swinging Doors:
 - 1. All exterior in-swinging doors shall have one piece rabbetted jamb.
 - 2. All pin—type hinges which are accessible from outside the secure area when the door is closed shall have non removable hinge pins.
 - 3. The strike plate for latches and the holding device for projecting deadbolts in wood construction shall be secured to the jamb and wall framing with screws not less than 2—1/2" in length.
 - 4. Deadbolts shall contain hardened inserts.
 - 5. Straight deadbolts shall have a minimum throw of 1" and an embedment of not less than 5/8
 - 6. A hook shaped or an expanding lug deadbolt shall have a minimum throw of 3/4".
 - 7. Wood flush type doors shall be 1-3/4 thick minimum with a solid core of wood or particle board of 25 pcf
 - 8. Wood panel type doors shall be 1—3/8" thick minimum with all panels fabricated from material not less than 3/8" in thickness provided all shaped portions of the panels are minimum 1/4" thick.
 - B. Cylinder guards shall be installed on all cylinder locks whenever the cylinder projects beyond the face of the door or is otherwise accessible to gripping tools.
- 8700.2 Panic hardware required on all exit doors.

ALUM SLIDING GLASS DOOR, WINDOWS & FIXED GLASS

(See also - 8700 & 7900)
To comply with The COUNTY OF ORANGE Code

- 8800.1 Furnish all metal sash and pertinent hardware complete.
- 8800.2 All windows and doors shall be of the size indicated on the drawings.
- 8800.3 Horizontal sliding aluminum window sash shall conform to Specifications HS—A2 of the Architectural Aluminum Manufacturers Association and shall be: Fleetwood Westwood series 250 White Anodized, minimum guarantee of one year.
 - A Minimum depth of active and inactive panels shall be 1/3".
 - B. Fixed sash units shall have names of the manufacturer's stock type as recommended for purpose shown on drawings. Sight lines for the fixed units shall line up with ventilator sections when adjacent to or in combination with sliding
 - C. Windows shall be constructed to allow either shop or field glazing with aluminum glazing beads. Provide extruded aluminum glazing beads of the window manufacturer's standard design, cut to proper length.
- 8800.4 Windows and doors shall be equipped with aluminum insect screens, complete with frames and hardware. Screen frames shall be of extruded aluminum sections, fixed type for mounting on the outside, fitted with continuous removable plastic or aluminum splines permitting replacement of the wire cloth. Corners shall be reinforced. The finished screens shall be square, flat in one plane and not distorted by stretching of wire. Screen cloth shall be standard fiberglass of 18 x 14 mesh.
- 8800.5 All windows shall be certified and labeled to show conformance with Air Infiltration Standards of 1972 American National Standards Institute (A134.1, A134.3, and A134.4) when tested in accordance with ASTME 283-73 with a pressure differential of 1.57 ob./s.f. (See Security Notes for additional requirements.)
- 8800.6 If painted aluminum windows are installed, no solvents may be used
- 8800.7 All windows and operators shall be installed by the manufacturer or his authorized representative, and shall be set plumb, square, level and true within their respective openings. Like units of each window or battery of windows shall finish in the same plane and with like members accurately aligned. Aluminum in contact with plaster, concrete, or steel shall be separated from the similar material with self—adering, plastic or synthetic rubber tape, 50 mils minimum thickness. thickness. Screws, rivets, bolts, and other fastening devices shall be of aluminum, non-magnetic stainless steel or other non-corrosive materials compatible with aluminum: cadmium plated fasteners are not acceptable. Aluminum window and door supplier shall furnish "rough—in" dimensions to framer. If openings are not plumb and square or properly sized, framer must be notified.
- 8800.8 Glass glazing and skylights shall conform to U.B.C. A.A.G.C.
- 8800.9 Fully tempered glass shall be used at all sliding glass doors and windows.
- 8800.10 Glass and glazing shall conform to local codes and meet Federal and State requirements. Glazing subject to human impact to meet requirements of U.B.C. 5406.
- 8800.11 Glass for glazing purposes shall be standard brand complying with "Federal Specification for Glass Flat, for Glazing".
 - A. Tempered glass 1/8" thick.

polished plate glass.

- B. Mirrors shall be 1/4" silvering quality, copper backed
- 8800.12 Manufactured doors and windows to be certified as required by California Energy Commission (CEC).

DIVISION 09 - FINISHES

- SUBDIVISION 9100 Lath & Plaster Exterior Plaster

 All work to conform to 2022 CBC AND COUNTY OF ORANGE Amendments. Also, Shop drawing submittal required.
- 9100.1 Lath and plaster shall comply to the Uniform Building Code or to
- 9100.2 All exterior walls and soffits shown to be stucco finished shall receive a full 7/8" three coats (rough scratch, rough brown and brush color) of stucco plaster with 3/4# metal lath over 15# felt, or K—lath type 'backing shall be applied over wood studs.
- 9100.3 Apply color coat with complete coverage in a textured finish and color selected by the Architect.
- 9100.4 Supply all material, including lath, metal trim, sand, cement, plastic cement, color coat, lime and scaffolding, in quantities as required to maintain a production rate consistent with the project progress
- 9100.5 Flash all exterior openings with 15# felt. All laps to be tight.
- 9100.6 Excess materials, bags, boxes to be removed by subcontractor.
- 9100.7 The Contractor shall provide his own scaffolding.
- 9100.8 Adjacent surfaces of other materials shall be protected from damage by water or plaster materials. Plaster surfaces, cut out to install work of other trades, shall be neatly patched. Damaged or defective work shall be made good. During work, all rubbish, droppings, and waste materials shall be promptly cleaned up and removed.
 At completion, the building and premises shall be left clean and free of all plaster and other materials coincident to this work.
- 9100.9 Metal lath, typically, shall be diamond mesh expanded, copper bearing steel, weighting not less than 3.4 lbs. per square yard.

 Metal shall be shop coated after fabrication with a rust— resisting paint for interior use and be galvanized for exterior use.
- 9100.10 All windows shall be fully masked and protected prior to plastering.

2022 and ORANGE COUNTY Amendments.

- 9100.11 All tops of pot shelves, parapets, projected ledges, shall have one layer of W.R. Grace ?lce & Water Sheild? under stucco backing. Also see details and sheet Spec-1.
- SUBDIVISION 9200 Gypsum Drywall Construction
 All work to conform to CBC 2022 and ORAN
 Also, see structural notes and specifications. Shop drawing submittal required. 9200.1 All installation shall be in accordance with U.B.C. requirements.
- Install Gypsum drywall on all interior walls and ceilings as follows: Walls and ceilings—Typical—1 layer 5/8" type ?x? I walls except bathroom, walls and showers. 5/8" green board. 9200.4 Apply taping and joint treatment (mudding) sufficient number of times on all drywall joints, corners (inside and out) and nail sets to prevent any flashing or irregularities. Provide metal corner aids (Milcor) at all interior walls as required.
- 9200.5 Gypsum Wallboard:
 - A. Joint Filler factory mixed compound as recommended by wallboard manufacturér.
 - B. Joint reinforcement cross fibered paper, tapered edge as recommended by wallboard manufacturer.
 - C. Use water resistant board in restroom/shower areas.
 - D. Protect all windows and surfaces from texture over spray.



REVISIONS:

SEPTEMBER 26 2024

DESIGNER:



PROJECT

TER POLLS COURT FENCE 1ENT PROJECT TAL WATE TBALL CO RAL

RYST SKET CF BA

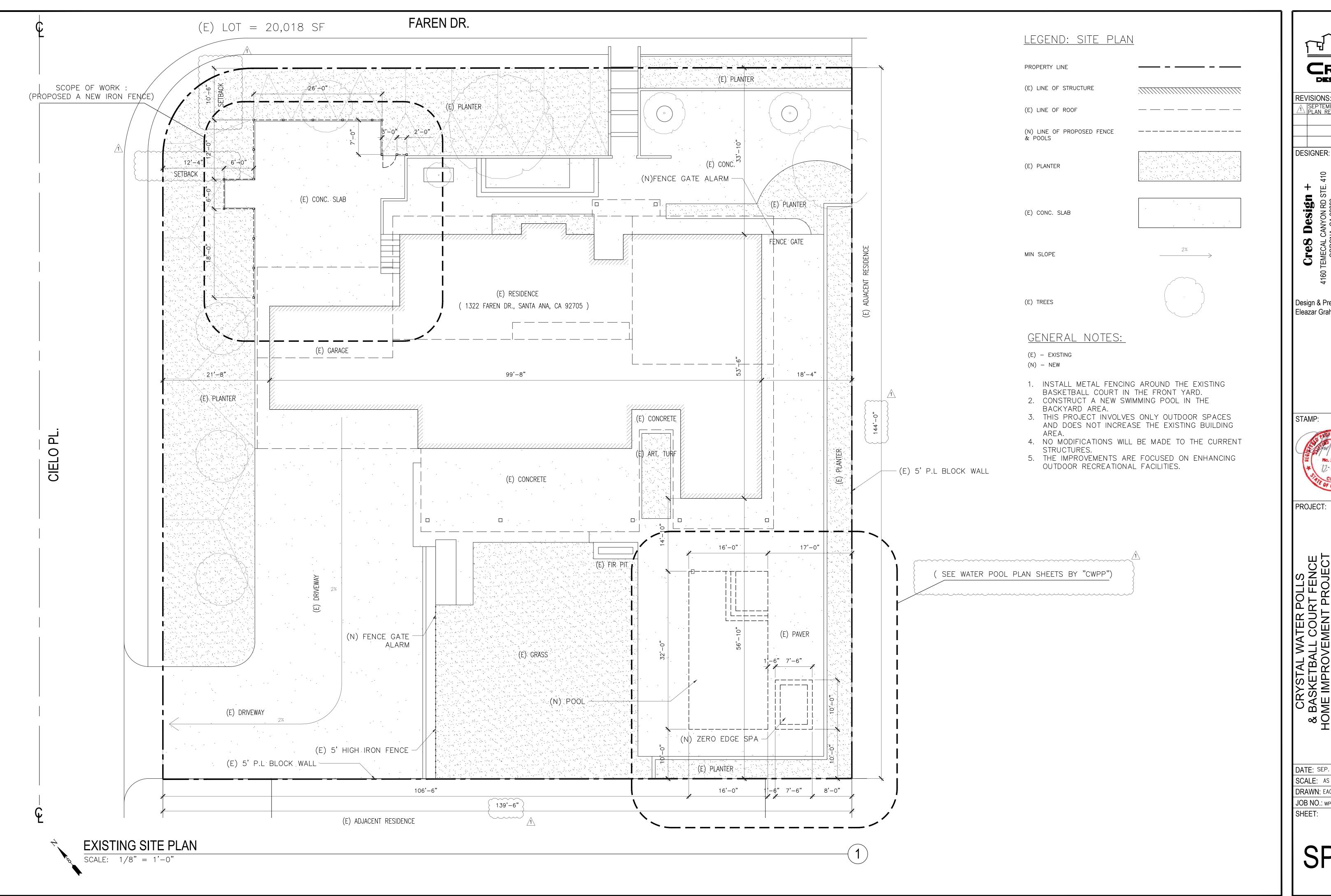
DATE: SEP. 26, 2024

SCALE: AS INDICATED

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DRAWN: EAG & WY **JOB NO**.: wp0502–15683DLCi

SHEET



CRE

REVISIONS: SEPTEMBER 26 2024
PLAN REVIEW CORRECTION

DesignCANYON RD ST
NA, CA 92883

Design & Prepared by

Eleazar Graham



PROJECT:

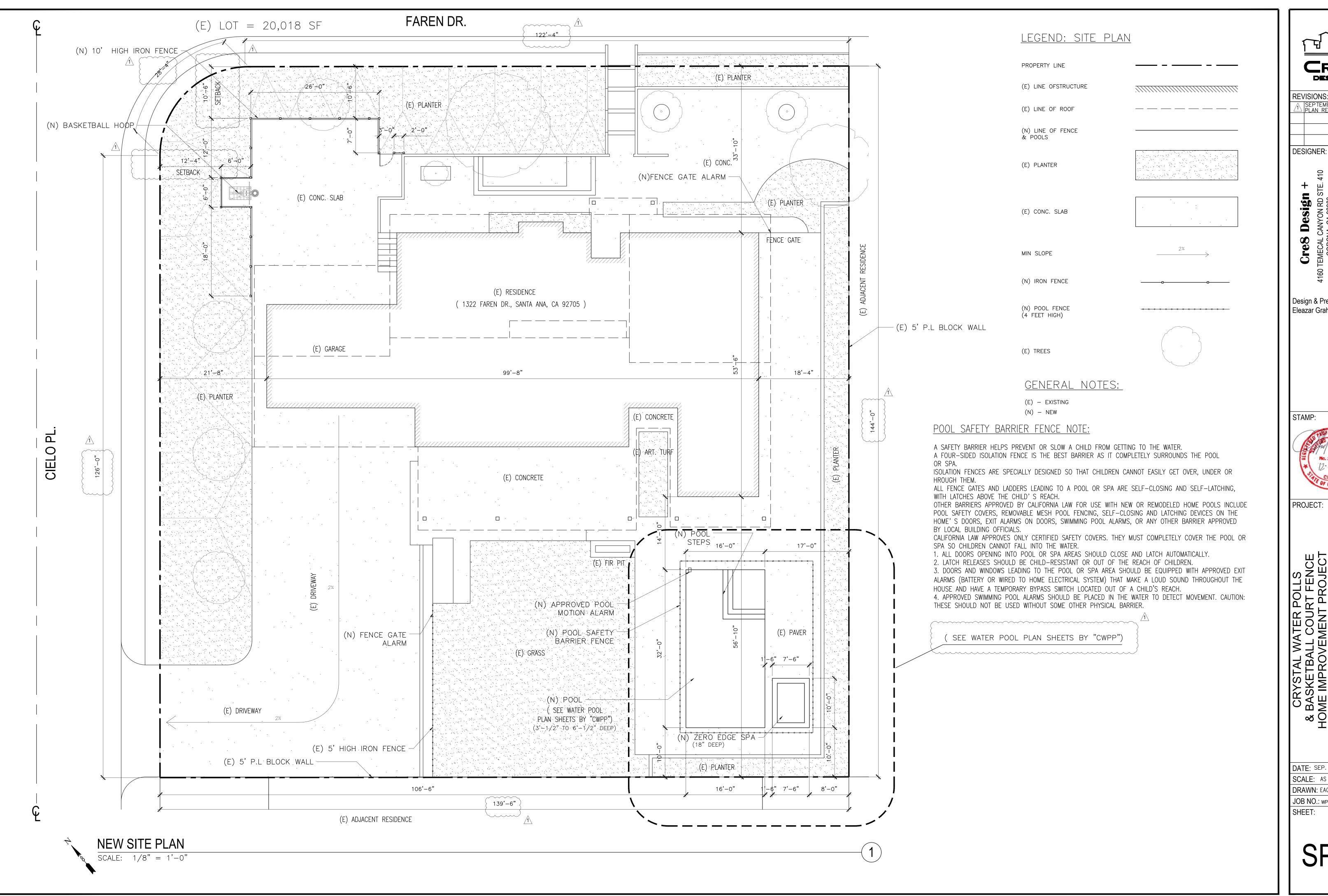
CRYSTAL WATER POLLS
& BASKETBALL COURT FENCE
HOME IMPROVEMENT PROJECT EXISTING SITE PLAN

DATE: SEP. 26, 2024 SCALE: AS INDICATED

DRAWN: EAG & WY

JOB NO.: wp0502-15683DLC

SP1.0



CREX

REVISIONS: SEPTEMBER 26 2024 PLAN REVIEW CORRECTIO

Design

Design & Prepared by Eleazar Graham



PROJECT:

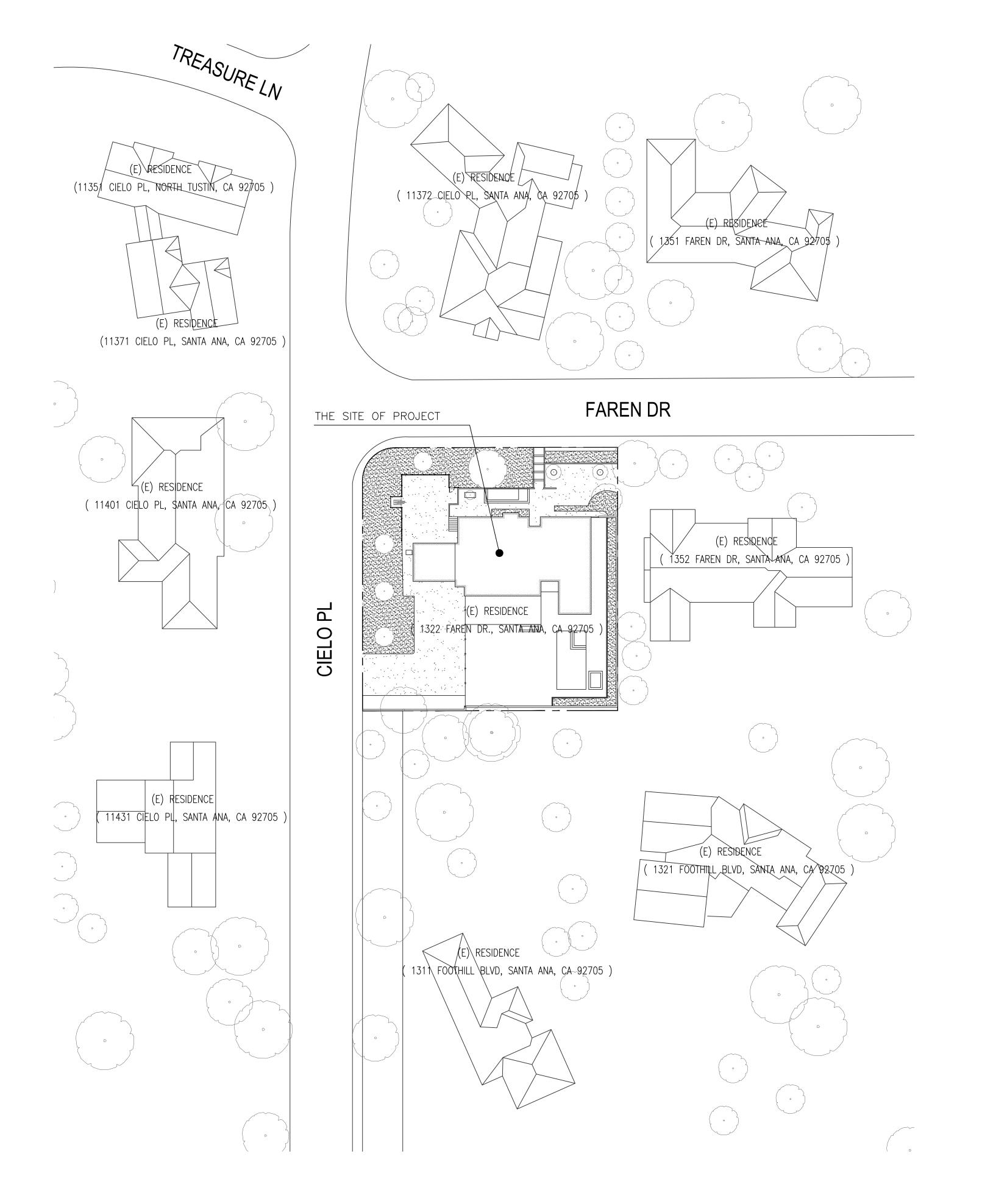
CRYSTAL WATER POLLS

& BASKETBALL COURT FENCE
HOME IMPROVEMENT PROJECT 1322 FAREN DR., SANTA ANA, CA 92705 NEW SITE PLAN

DATE: SEP. 26, 2024 SCALE: AS INDICATED

DRAWN: EAG & WY JOB NO.: wp0502-15683DLCH

SP1.1



LEGEND: SITE PLAN

PROPERTY LINE OF PROJECT

(E) LINE OFSTRUCTURE

(E) PLANTER

(E) CONC. SLAB

(E) TREES

GENERAL NOTES:

(E) - EXISTING (N) - NEW

CRE8

REVISIONS:

| SEPTEMBER 26 2024 | PLAN REVIEW CORRECTION

DESIGNER:

Cres Design +
TEMECAL CANYON RD STE. 4
CORONA, CA 92883

Design & Prepared by Eleazar Graham



PROJECT:

SANTA ANA, CA 92705 TE:ADJACENT NEIGHBORING USES SITE PLAN

DATE: SEP. 26, 2024

SCALE: AS INDICATED DRAWN: EAG & WY

NEW SHEET

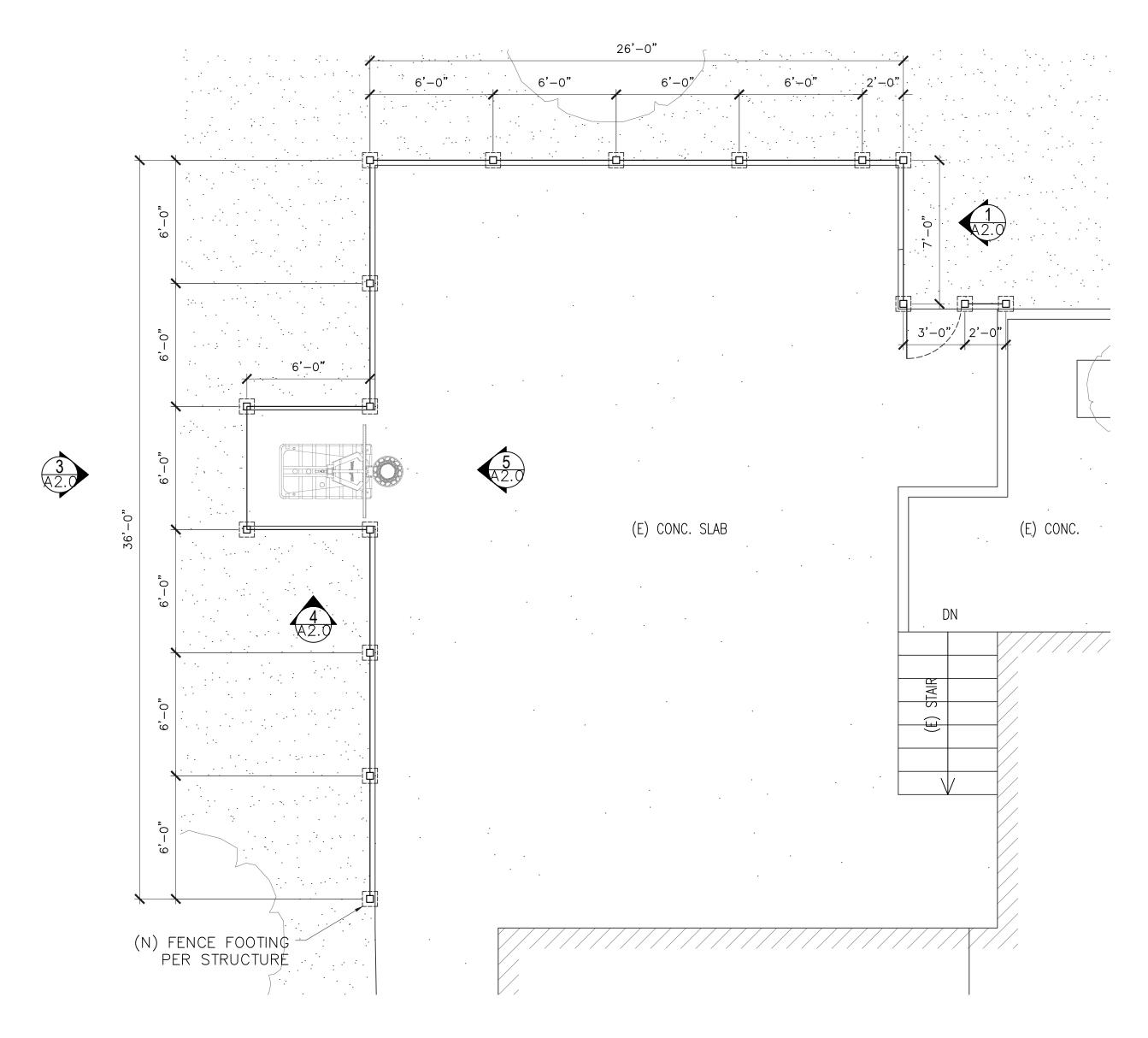
JOB NO.: wp0502-15683DLC

SP1.2

ADJACENT NEIGHBORING USES SITE PLAN

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





FLOOR PLAN - FENCE SCALE: 1/4" = 1'-0"

LEGEND: FLOOR PLAN

(E) LINE OFSTRUCTURE (E) PLANTER (N) IRON FENCE

<u>GENERAL NOTES:</u>

(E) - EXISTING (N) - NEW

(N) FOOTING



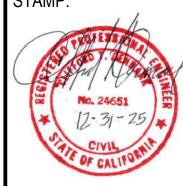
REVISIONS:

SEPTEMBER 26 2024
PLAN REVIEW CORRECTION

DESIGNER:

Cres Design +
TEMECAL CANYON RD STE. 4
CORONA, CA 92883

Design & Prepared by Eleazar Graham



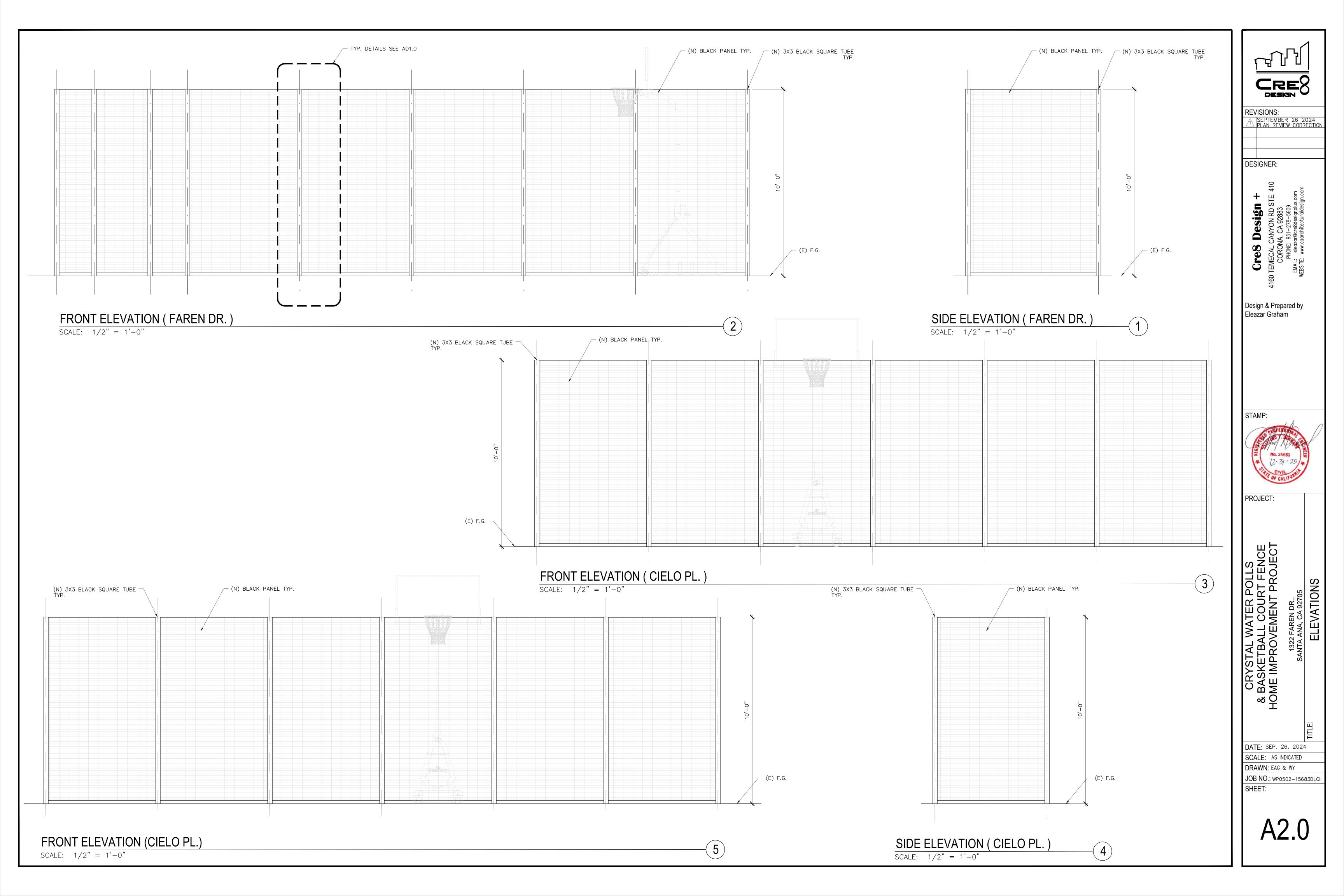
PROJECT:

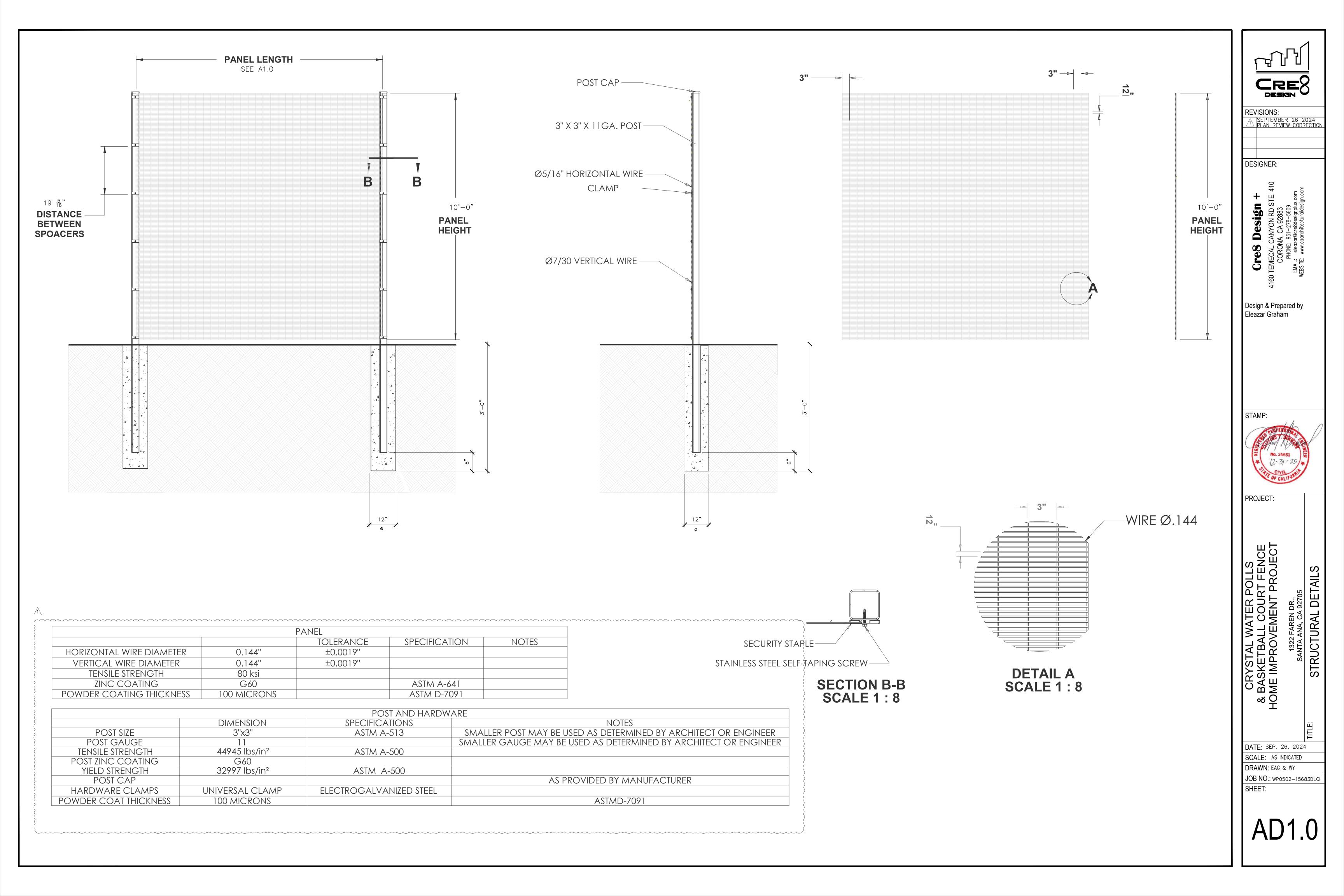
1322 FAREN DR., SANTA ANA, CA 92705 FENCE FLOOR PLAN

DATE: SEP. 26, 2024 SCALE: AS INDICATED

DRAWN: EAG & WY

JOB NO.: wp0502-15683DLCH

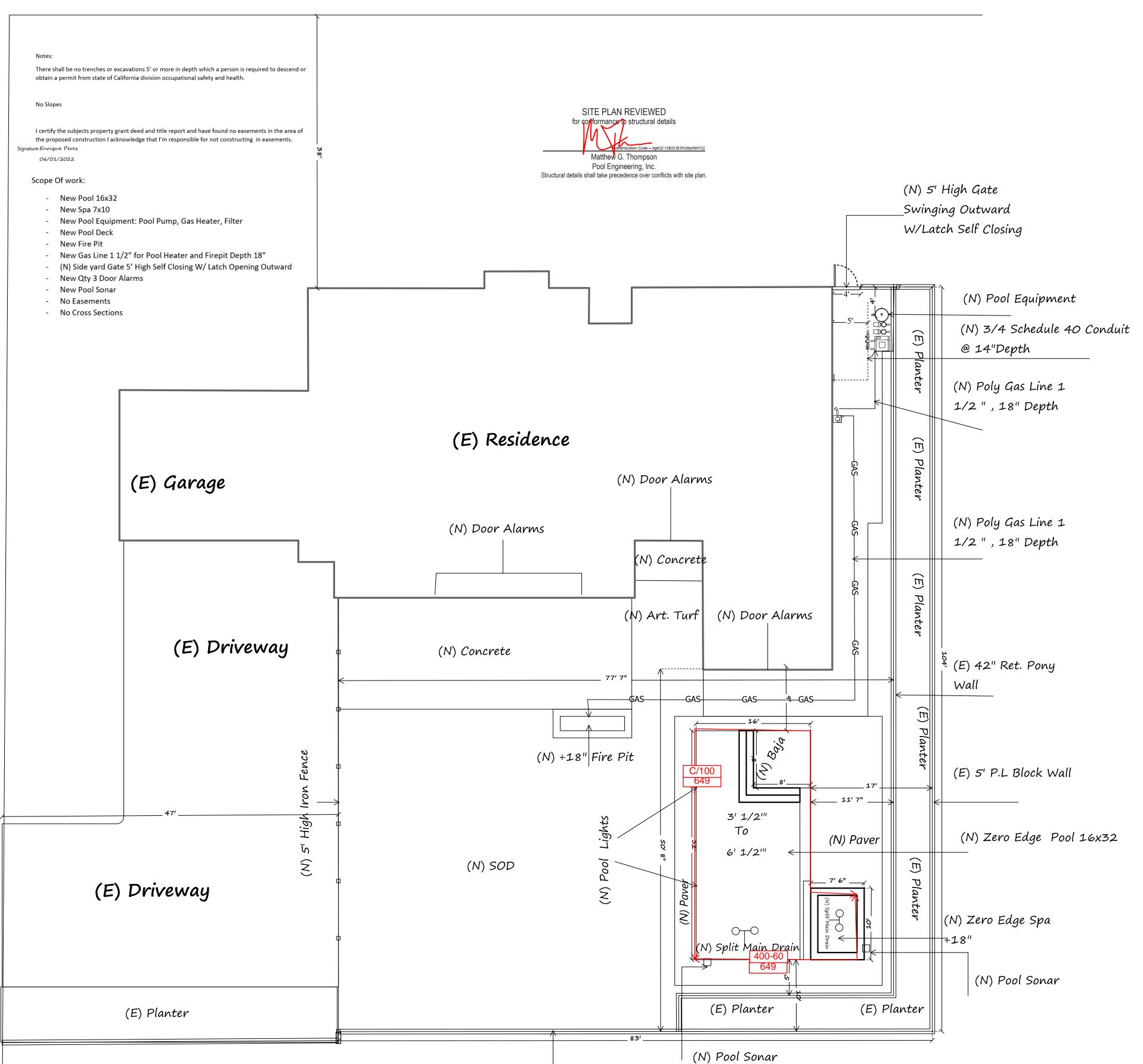




P(

Cielo

Faren Dr



(E) 5' P.L Block Wall

POOL

IOOL	
SIZE: 16x32	SQFT: 512 Sq Ft
DEPTH: 3 1/2'- 6 1/2'	PERIMETER: 96 Ln Ft
EST TOTAL GALLONS:	SKIMMERS: Qty 1
RETURNS: 4	INTERIOR MATERIAL: Glass
SPECIAL:	TILE: Glass
NOTES:	

SPA SPECS

SPA SPECS	
SIZE: 7 1/2x10 '	SQFT: 70 Sq Ft
DEPTH: 3'	PERIMETER: 48
EST TOTAL GALLONS:	SPILLWAY: Zero Edge
RAISED HEIGHT: +18"	SKIMMERS:
RETURNS: 1	TILE: Glass
INTERIOR MATERIAL: Glass Pel	oble
SPECIAL:	
NOTES:	

PLUMBING

SKIMMERS: Qty 1
SPA MAIN DRAINS: Split
HEADS:
ROBOT VAC: Qty 1
SPA SPILLWAY: Zero Edge
LIGHTS IN SPA: Qty 1

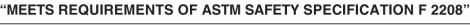
DECK

DECK TYPE: Pavers	ELEVATION: Flushed
TOTAL DECK SQFT: TBD	PERIMETER: TBD
RAISED BEAM: N/A	LIP STYLE:
MATERIAL 1:	MATERIAL 2:
SPECIAL:	
NOTES:	

EQUIPMENT

POOL PUMP: 3 HP VS	2ND PUMP: 2HP Super Flo
FILTRATION: D.E	FILTER SIZE: 60 Sq Ft
HEATER: 400k BTU	INLINE: 1 1/2"
TIMER: Auto	GAS: Natural
SPECIAL:	
NOTES:	

Pool Alarms







TECHKO S187D Safe Pool Area Entry Alarm

	Cross Section A			Cross Section B	
I) Pool Deck		(E) Planter 5' (E)5' PL Block Wall	•	(N) Pool Deck	•
i) Pool Deck		(N) Pool Deck	(N) SOD	Swimming Pool <u>5</u>	
9'	Swimming Pool	(N) FOOT DECK (E) 42" High Ret Wall	<i>50</i> ′	11 7"	_
	32'		ce 5' High		 ' High Ret V

(E) 5' P.L Block Wall

Designer: CWPP	
Address: 150 Holgate	NAME: Nick Dedmond
City: La Habra	ADDRESS: 1322 Farer
State/Zip: Ca 90631	CITY: Santa Ana
Phone:	PHONE: 805.455.8968
Cell: 714.512.1372	WORK:
Email:	 CELL: 805.455.8968
Alternate Contact:	<u> </u>
License #: 1012751 C-53	-

NAME: Nick Dedmond

ADDRESS: 1322 Faren Dr

CITY: Santa Ana STATE: Ca

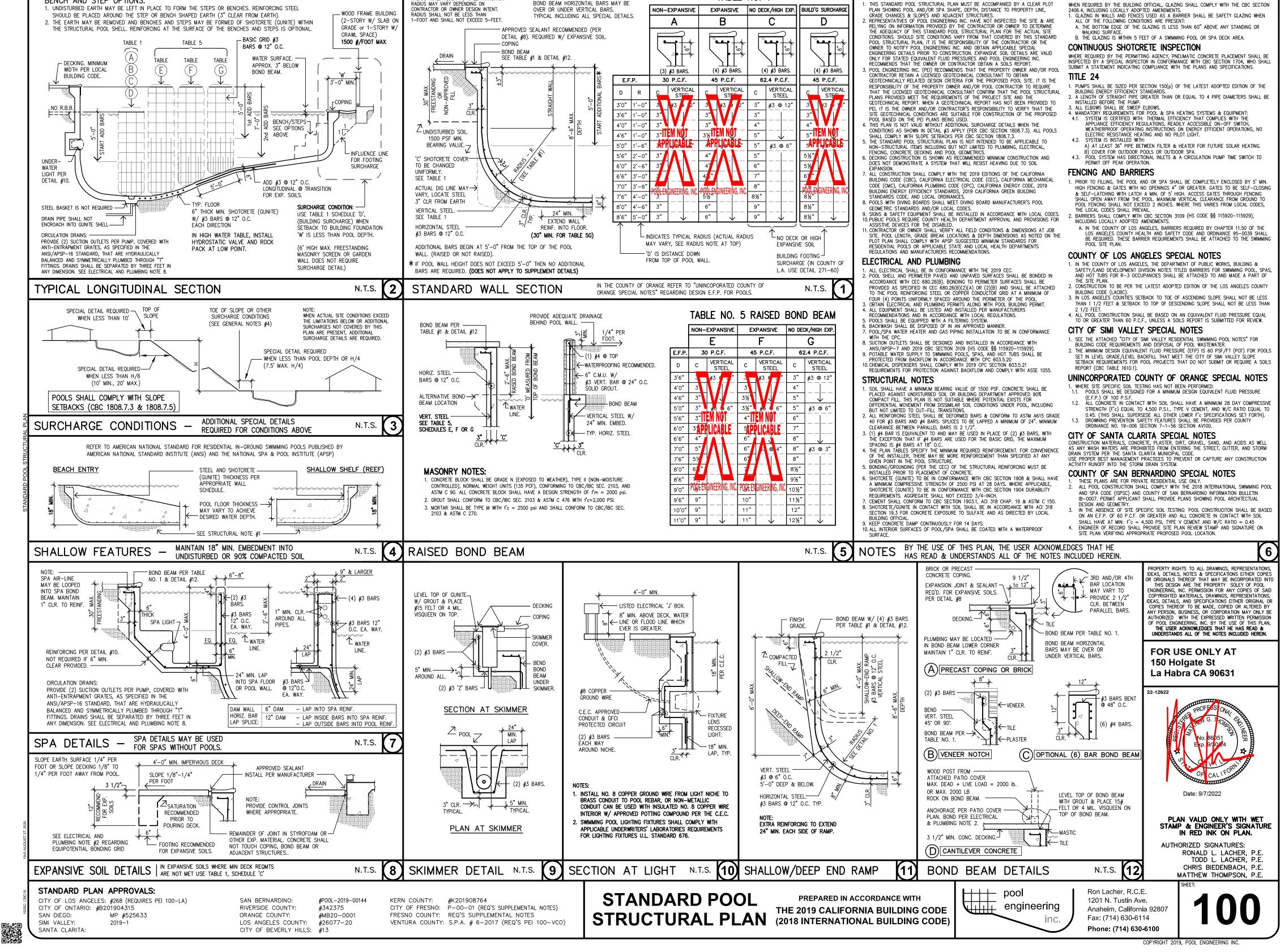
PHONE: 805.455.8968 ZIP: 92705

WORK:

CRYSTAL WATER POOLS PLASTERING

Dedmond Project 1322 faren Dr

General Plan



ADIUS NOTE: FLOOR TO WALL TRANSITION

CONTRACTOR OR OWNER DESIGN INTENT.

RADIUS MAY VARY DEPENDING ON

BOND BEAM HORIZONTAL BARS MAY BE

OVER OR UNDER VERTICAL BARS.

GENERAL NOTES

THIS STANDARD POOL STRUCTURAL PLAN MUST BE ACCOMPANIED BY A CLEAR PLOT

PLAN SHOWING POOL AND/OR SPA SHAPE, DEPTH, DISTANCE TO PROPERTY LINE,

GLAZING IN HAZARDOUS LOCATIONS

TABLE NO. 1

EXPANSIVE NO DECK/HIGH EXP. BUILD'G SURCHARGE

NON-EXPANSIVE

BENCH AND STEP OPTIONS:

1. UNDISTURBED EARTH MAY BE LEFT IN PLACE TO FORM THE STEPS OR BENCHES. REINFORCING STEEL

CALCULATIONS

METHODOLOGY:

(SURCHARGE LOADING BASED ON BOUSSINESQ METHOD, MODIFIED BY TERZAGI FOR TYPICAL BUILDING/FOOTING, 1,000 P.S.F. BEARING PRESSURE).

 γ = EQUIVALENT FLUID PRESSURE

OTM = $1/6 \gamma H^3 + \sum [(P_i)(r_i)]$

WHERE $\gamma = 60$ p.c.f. AND

 $P_i = 1/2(\sigma_i + \sigma_{i-1})(6 \text{ in})$

 r_i = vertical dist. from P_i to z depth. NET MOM = OTM - RESISTING MOMENT

M(12 in/ft) Mt (12) As j d As (0.887) d

M(2) 12 in/ft jkbd² Mt (2)(12) $\frac{1}{(0.887)(0.339)(12)}$ d² < 1125 psi

(12 in/ft) j d (2)(12)(0.887) d

f'c = 2,500 p.s.i.

Fs = 20,000 p.s.i.

fc = 0.45 f'c = 1125 p.s.i.

 $Vc = 1.1 \sqrt{f'c} = 55 \text{ p.s.i.}$

RETAINING WALL SURCHARGE, E.F.P. = 60 P.C.F. RESULTS FOR 'X'= 1'-0" W/ NO RAISED BOND BEAM

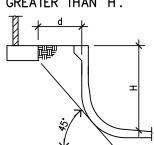
DEPTH 'D'	SOIL OTM ft-#	LOAD OTM ft-#	SOIL RM ft-#	NET Mom	t	VERTICAL STEEL	fs p.s.i.	fc p.s.i.	νc p.s.i.
2'-6"	156	277	88	424	6"	#3 @ 12"	17803	489	21.2
3'-0"	270	531	98	831	6½"	#3 @ 6"	15137	565	23.9
4'-0"	640	1235	134	1949	7½"	#3 @ 4"	18291	742	26.4
5 ' -0"	1250	2131	258	3316	8½"	#3 @ 3"	19021	809	27.6
6'-0"	2160	3158	546	4809	10"	add 2 #4	18964	755	26.7
7'-0"	3430	4274	1142	6563	11"	add 3 #4	16365	731	28.2
8'-6"	6141	6061	5309	6893	11½"	"	16096	692	34.3

LOADING DIAGRAM: **RESISTING MOMENT:** 1 1/2 MAX. d = "0-'81 RESISTING MOMENT ABOUT POINT A Q, = RESULTANT FROM $= W_1 d_1 + W_2 d_2 + ... W_n d_n$ TYPICAL WALL. $Q_L = 2642 PLF$ $m = \frac{x}{H}$ $n = \frac{z}{H}$ = wt. of segment, FOR $m \leq 0.4$ H ((.16+n²)² $\gamma = 60 \text{ P.C.F.}$ $\sigma_{h}^{}=$ LATERAL LOAD ON POOL WALL FROM RET. WALL SURCHARGE.

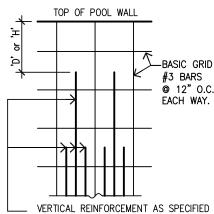
TABLE 400-60 2'-6" MAX. RAISED BOND BEAM

	'X'= 1'-0" to 2'-11" 'X'= 3'-0" to 4'-11"				'X'= 5'-0" to 6'-11"			'X'= 7'-0" & OVER				
TOTAL HEIGHT		6" MAX. R.B.B.	REQ'D		6" MAX. R.B.B.	REQ'D		6" MAX. R.B.B.	REQ'D		6" MAX. R.B.B.	REQ'D
I	С	VERTICAL STEEL	TRANS.	C	VERTICAL STEEL	TRANS.	С	VERTICAL STEEL	TRANS.	C	VERTICAL STEEL	TRANS.
0 to 1'6"	3"	#3 @ 12"	2'-0"	3 "	#3 @ 12"	2'-0"	3"	#3 @ 12"	2'-0"	3"	#3 @ 12"	2'-0"
2'-0"	3"	#3 @ 6"	2'-0"	3"	"	2'-0"	3"	"				
2'-6"	3"	"	2'-0"	3"	#3 @ 6"	2'-0"	3"	#3 @ 6"	2'-0"			
3'-0"	3½"	#3 @ 4"	2'-0"	3½"	"	2'-0"	3"	"	2'-0"	3"	#3 @ 6"	2'-0"
3'-6"	4½"	"	2'-0"	3½"	#3 @ 4"	2'-0"	3"	#3 @ 4"	2'-0"	3½"	"	2'-0"
4'-0"	5"	#3 @ 3"	2'-3"	4½"	"	2'-0"	3½"	"	2'-0"	3½"	#3 @ 4"	2'-0"
4'-6"	6"	"	2'-10"	5"	#3 @ 3"	2'-3"	4"	"	2'-0"	4½"	"	2'-0"
5'-0"	6"	add 2 #4	3'-6"	6"	"	2'-10"	5"	#3 @ 3"	2'-3"	4½"	"	2'-0"
5'-6"	7"	"	4'-0"	6½"	add 2 #4	3'-4"	6"	"	2'-10"	5½"	#3 @ 3"	2'-4"
6'-0"	7½"	"	4'-5"	7½"	,,	3'–10"	6½"	add 2 #4	3'-4"	6½"	"	2'-10"
6'-6"	8½"	add 3 #4	4'-10"	8"	add 3 #4	4'-4"	7½"	"	3'-10"	7"	add 2 #4	3'-4"
7'-0"	9½"	"	5'-0"	9"	,,	4'-9"	8"	add 3 #4	4'-3"	8"	"	3'-10"
7'-6"	9½"	"	5'-2"	9"	,,	4'-10"	9"	"	4'-4"	8"	add 3 #4	3'-11"
8'-0"	9½"	add 3 #5	5'-2"	9"	add 3 #5	4'-11"	9"	"	4'-5"	9"	,,	3'-11"
8'-6"	10"	"	5'-2"	10"	"	5'-0"	9"	"	4'-8"	9"	,,	4'-0"
9'-0"	10"	"	5'-3"	10"	"	5'-2"	10"	add 3 #5	4'-8"	9"	"	4'-3"
9'-6"	10"	"	5'-4"	10"	"	5'-3"	11"	"	4'-9"	10"	"	4'-4"
10'-0"	10"	"	5'-5"	10½"	"	5'-4"	11"	"	4'-10"	11"	"	4'-5"
10'-6"	10½"	"	5'-5"	10½"	"	5'-6"	11"	"	4'-11"	12"	"	4'-5"
11'-0"	10½"	"	5'-6"	10½"	,,	5'-8"	11"	"	5'-2"	12"	,,	4'-6"

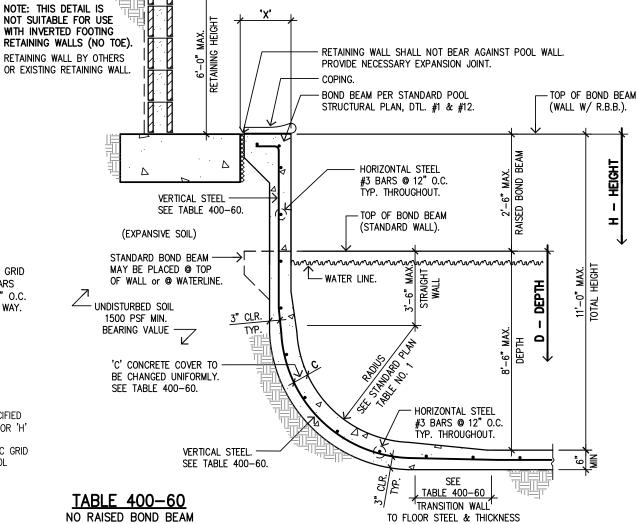
THIS DETAIL IS NOT NEEDED WHEN 'd' IS GREATER THAN 'H'.



TYPICAL REBAR REINFORCING DIAGRAM



IN TABLE STARTS A DISTANCE 'D' OR 'H' DOWN FROM TOP OF POOL WALL. REINFORCEMENT OTHER THAN BASIC GRID NEED NOT EXTEND TO TOP OF POOL WALL. ADD BARS TO BE EQUALLY SPACED BETWEEN BASIC GRID.



'D' OR 'H' IS DISTANCE FROM TOP OF POOL WALL DOWNWARD. BEGIN SPECIFIED STEEL & GUNITE THICKNESS AT INDICATED 'D' OR 'H' DEPTH. (SEE STANDARD STRUCTURAL PLAN, DETAIL #2)

UP TO 1 1/2:1 SLOPE or FLAT BACKFILL.

	'X'=	1'-0" to 2	2'-11"	'X'= 3'-0" to 4'-11"			'X'= 5'-0" to 6'-11"			'X'=	OVER	
POOL DEPTH		RAISED D BEAM	REQ'D		RAISED D BEAM	REQ'D		RAISED D BEAM	REQ'D		RAISED ID BEAM	REQ'D
D	С	VERTICAL STEEL	TRANS.	С	VERTICAL STEEL	TRANS.	С	VERTICAL STEEL	TRANS.	С	VERTICAL STEEL	TRANS.
0 to 1'6"	3"	#3 @ 12"	2'-0"	3 "	#3 @ 12"	2'-0"	3"	#3 @ 12"	2'-0"	3"	#3 @ 12"	2'-0"
2'-0"	3"	#3 @ 6"	2'-0"	3"	"	2'-0"	3"	"	2'-0"	3"	"	2'-0"
2'-6"	3"	"	2'-0"	3"	#3 © 6"	2'-0"	3"	#3 @ 6"	2'-0"	3"	"	2'-0"
3'-0"	3½"	#3 @ 4"	2'-0"	3½"	"	2'-0"	3"	"	2'-0"	3"	#3 @ 6"	2'-0"
3'-6"	4½"	"	2'-0"	3½"	#3 @ 4"	2'-0"	3"	#3 @ 4"	2'-0"	3½"	"	2'-0"
4'-0"	4½"	#3 @ 3"	2'-4"	4½"	"	2'-0"	3½"	"	2'-0"	3½"	#3 @ 4"	2'-0"
4'-6"	5½"	"	2'-11"	5"	#3 @ 3"	2'-3"	3½"	#3 @ 3"	2'-0"	4"	"	2'-0"
5'-0"	5½"	add 2 #4	3'-3"	6"	"	2'-5"	4½"	"	2'-0"	4"	#3 @ 3"	2'-0"
5'-6"	6½"	"	3'-5"	6"	add 2 #4	2'-8"	5"	add 2 #4	2'-3"	5"	"	2'-0"
6'-0"	6½"	add 3 #4	3'-6"	7"	"	2'-10"	5½"	"	2'-5"	5"	add 2 #4	2'-0"
6'-6"	7½"	"	3'-8"	7"	add 3 #4	3'-0"	5½"	add 3 #4	2'-9"	6"	,,	2'-2"
7'-0"	7½"	"	3'-9"	8"	"	3'-2"	6½"	"	2'-10"	5½"	,,	2'-4"
7'-6"	7½"	"	3'-10"	8"	"	3'-4"	6½"	"	3'-2"	6½"	,,	2'-6"
8'-0"	8"	"	3'-11"	7½"	"	3'-6"	6½"	"	3'-4"	7"	,,	2'-9"
8'-6"	8"	"	4'-0"	7½"	"	3'–10"	6½"	"	3'-8"	7"	"	2'-11"

FOR USE ONLY AT 150 Holgate St La Habra CA 90631

22-12622



PLAN VALID ONLY WITH ENGINEER'S SIGNATURE IN RED INK ON PLAN. DETAIL TO E H STANDARD THIS [RETAINING WALL SURCHARGE

Ron Lacher, R.C.E. 1201 N. Tustin Ave. Anaheim, CA 92807 Fax: (714) 630-6114 Phone: (714) 630-6100

engineering inc.

BE USED IN CONJUNCTION POOL STRUCTURAL PLAN

pood

UPSLOPE OR LEVEL BACKFILL MAX. FOOTING BEARING PRESSURE = 1,500 P.S.F. EQUIVALENT FLUID PRESSURE = 60 P.C.F.

DETAIL #400-60



