# DESIGN REVIEW

SHELL HYDROGEN FUEL FACILITY 920 CYPRESS RD. @ SELLERS AVE. OAKLEY, CA 94561 APN: 037-192-038

### VICINITY MAP



### SITE INFORMATION

| <u>I. SITE:</u><br>LOT SIZE:          | 340,228 SQ. FT.      | 7.81 ACRES       |
|---------------------------------------|----------------------|------------------|
| LOT SIZE.                             | 340,226 SQ. FT.      | 1.01 ACRES       |
| AREA OF DISTURBANCE:                  | 2,038 SQ. FT.        | 0.05 ACRES       |
| ASSESSORS PARCEL #:                   | 037-192-038          |                  |
| PROPERTY ADDRESS:                     | 920 CYPRESS RD., OA  | KLEY CA, 94561   |
| ZONING:                               | P-1 (PLANNED UNIT DE | EVELOPMENT)      |
| II. PERVIOUS VS. IMPERVIOU LANDSCAPE: | JS AREAS:            |                  |
| EXISTING *:                           | 189 SQ. FT.          | 0.1 %            |
| EXISTING TO BE REMOVED:               | -189 SQ. FT.         | -0.1 %           |
| NEW:                                  | 561 SQ. FT.          | 0.2 %            |
| NET TOTAL:                            | 561 SQ. FT.          | 0.2 %            |
| HARD SURFACE (PAVEMENT                | & STRUCTURES, INCLUS | SIVE OF PAVEMENT |

\* EXISTING WITHIN AREA OF DISTURBANCE PER APPROVED SITE DEVELOPMENT PLAN BY M I ARCHITECTS DATED 12-07-20

1,849 SQ. FT.

-1,849 SQ. FT.

1,477 SQ. FT.

1,477 SQ. FT.

0.5 %

-0.5 %

0.4 %

0.4 %

III. BUILDINGS:

UNDERNEATH CANOPY):

EXISTING TO BE REMOVED:

EXISTING \*:

NET TOTAL:

NEW:

NOTE: NO BUILDING PROPOSED

IV. PARKING DATA: NOTE: NO CHANGE TO PARKING CONFIGURATIONS

### PROJECT TEAM

APPLICANT/AGENT:

PASADENA, CA 91101

FIEDLER GROUP

(213) 381-7891

PATRICK O. FIEDLER, P.E.

299 N. EUCLID AVE., STE. 550

PROJECT OWNER/DEVELOPER: EQUILON ENTERPRISES, LLC D/B/A SHELL OIL PRODUCTS U.S. ATTN: JOSEPH LEWIS 910 LOUISIANA HOUSTON, TX 77002-4916

**CIVIL ENGINEER:** PATRICK O. FIEDLER, P.E. FIEDLER GROUP (213) 381-7891 299 N. EUCLID AVE., STE. 550 PASADENA, CA 91101

BENCHMARK

ELEV = 22.993 FEET (NGVD 29)

CONTRA COSTA COUNTY BENCHMARK BM#3095.

FLOOD INFORMATION

INTERSECTION OF CYPRESS ROAD AND STATE HIGHWAY 4.

A BRASS DISC IN CONCRETE NORTHWEST CORNER OF NEW BRIDGE OVER MARSH

SUBJECT PROPERTY IS LOCATED WITHIN ZONE "X", "AREA WITH REDUCED FLOOD

1-PERCENT-ANNUAL-CHANCE OR GREATER FLOOD HAZARD BY A LEVEE SYSTEM.

RISK DUE TO LEVEE." THIS AREA IS SHOWN BEING PROTECTED FROM THE

OVERTOPPING OR FAILURE OF ANY LEVEE SYSTEM IS POSSIBLE. SEE THE

NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP

COMMUNITY PANEL NO.: 06013C0360G, EFFECTIVE MARCH 21,2017.

CREEK AT ITS INTERSECTION WITH CYPRESS ROAD, 400 FEET EAST OF THE

### SCOPE OF WORK

PROJECT SCOPE IS TO INSTALL HYDROGEN FUELING EQUIPMENT AT A PROPOSED SITE DEVELOPMENT PROJECT LOCATED AT:

920 CYPRESS RD., OAKLEY, CA 94561

INSTALLATION OF HYDROGEN FUELING EQUIPMENT CONSISTS OF, BUT IS NOT

- 1. NEW ENCLOSED EQUIPMENT ENCLOSURE THAT HOLDS HYDROGEN STORAGE AND COMPRESSION EQUIPMENT
- 2. NEW (2) HYDROGEN DISPENSERS
- 3. NEW INTERCONNECTING MECHANICAL PIPING & ELECTRICAL CONDUITS
- 4. NEW SAFETY SYSTEMS & SIGNAGE &

### 5. OTHER MINOR SITE IMPROVEMENT

SHEET INDEX

| SHEET NO.<br>C0.0 | SHEET TITLE COVER SHEET        |
|-------------------|--------------------------------|
| C1.0              | OVERALL SITE PLAN              |
| C1.1              | SITE PLAN                      |
| C2.0              | EQUIPMENT ENCLOSURE ELEVATIONS |

L1.0 SITE DEVELOPMENT LANDSCAPE PLAN (FOR REFERENCE)

City of Oakley Planning Division

SEP 19, 2022

RECEIVED

### BASIS OF DESIGN

- 1. NFPA 2 PERFORMANCE BASED ASSESSMENT BASED ON "NEPTUNE HYDROGEN REFUELING STATION NETWORK FACILITY SEPARATION DISTANCE RISK ASSESSMENT ISSUE 8.0" DATED 05/27/2022.
- 2. EQUIPMENT PLACEMENT BASED ON TECHNICAL BOOK REVISION 11 DATED 05/11/2022.





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DEVELOPMENT INFORMATION:

SHELL PROPOSED HYDROGEN **FUELING STATION** 

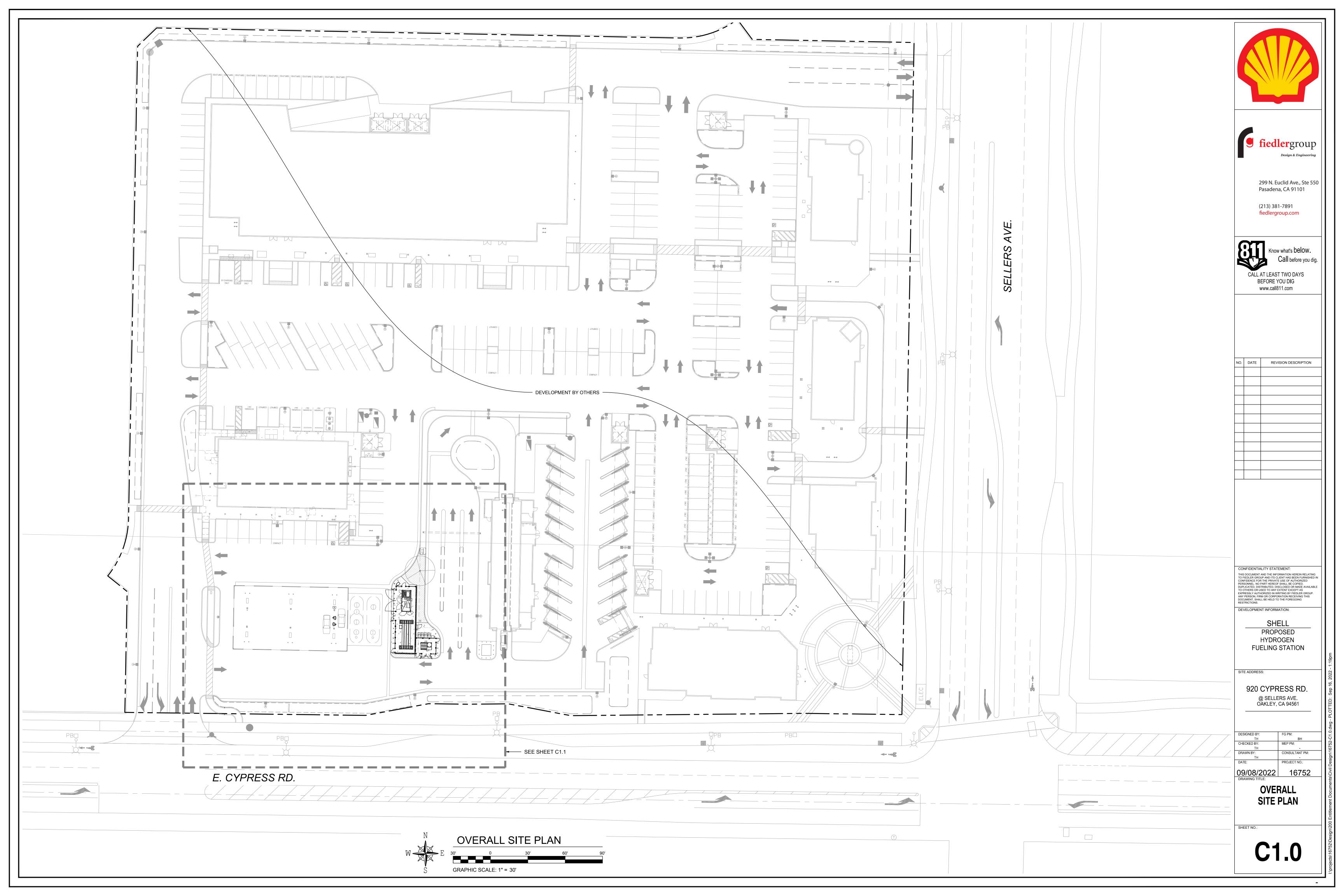
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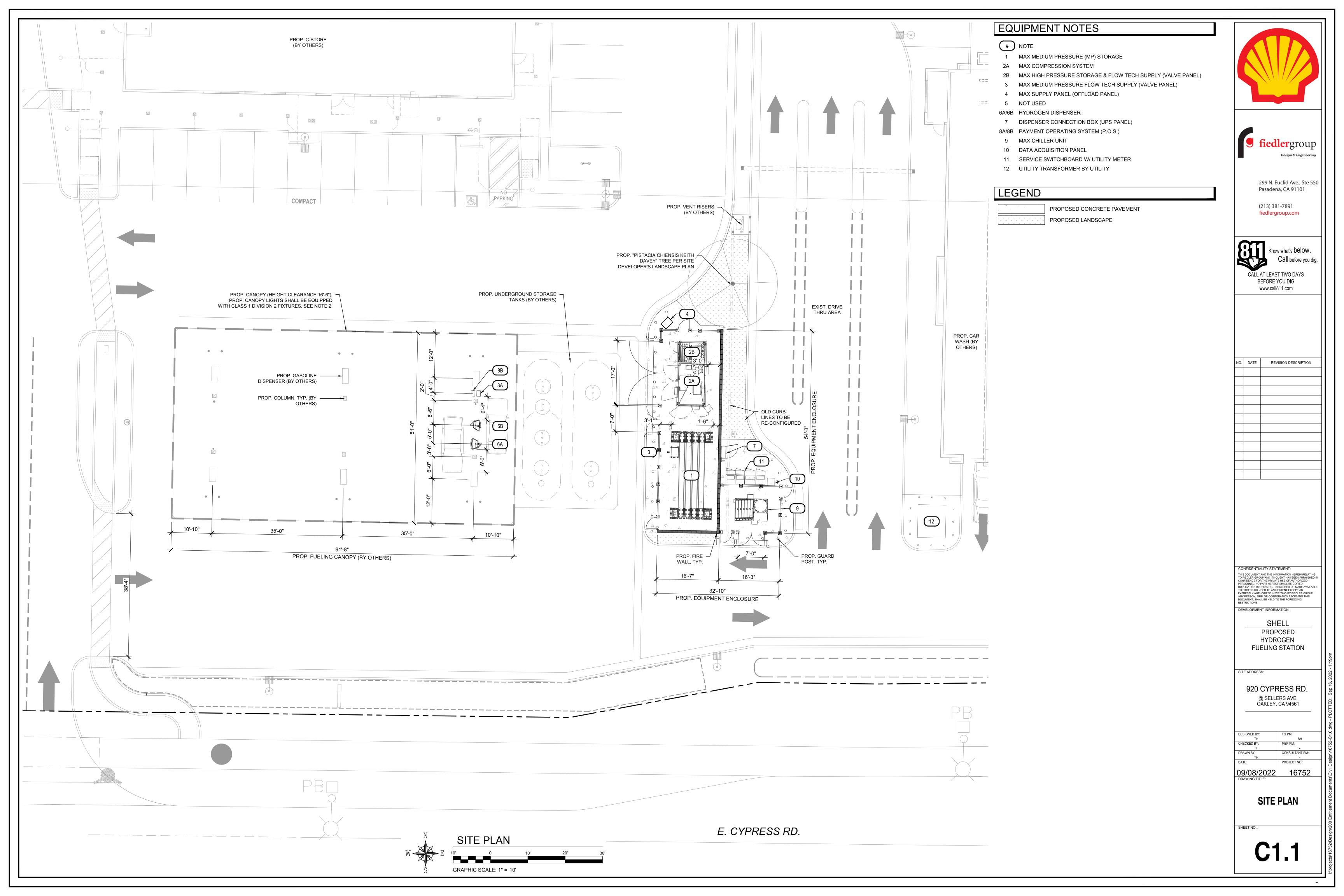
920 CYPRESS RD. @ SELLERS AVE. OAKLEY, CA 94561

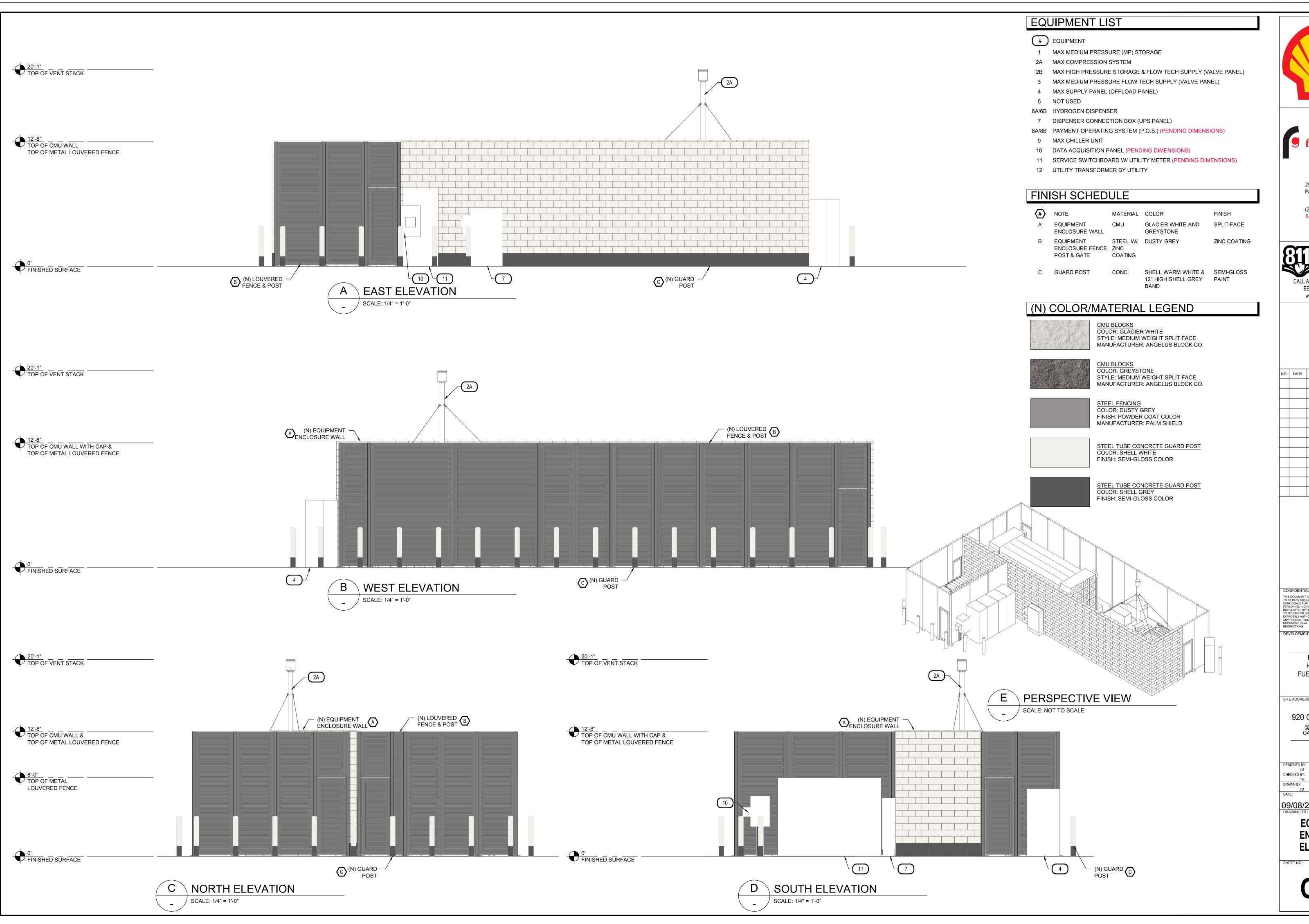
CHECKED BY: CONSULTANT PM: PROJECT NO.: 09/08/2022 16752

**COVER SHEET** 

SHEET NO.:







Design & Engineering

299 N. Euclid Ave., Ste 550 Pasadena, CA 91101

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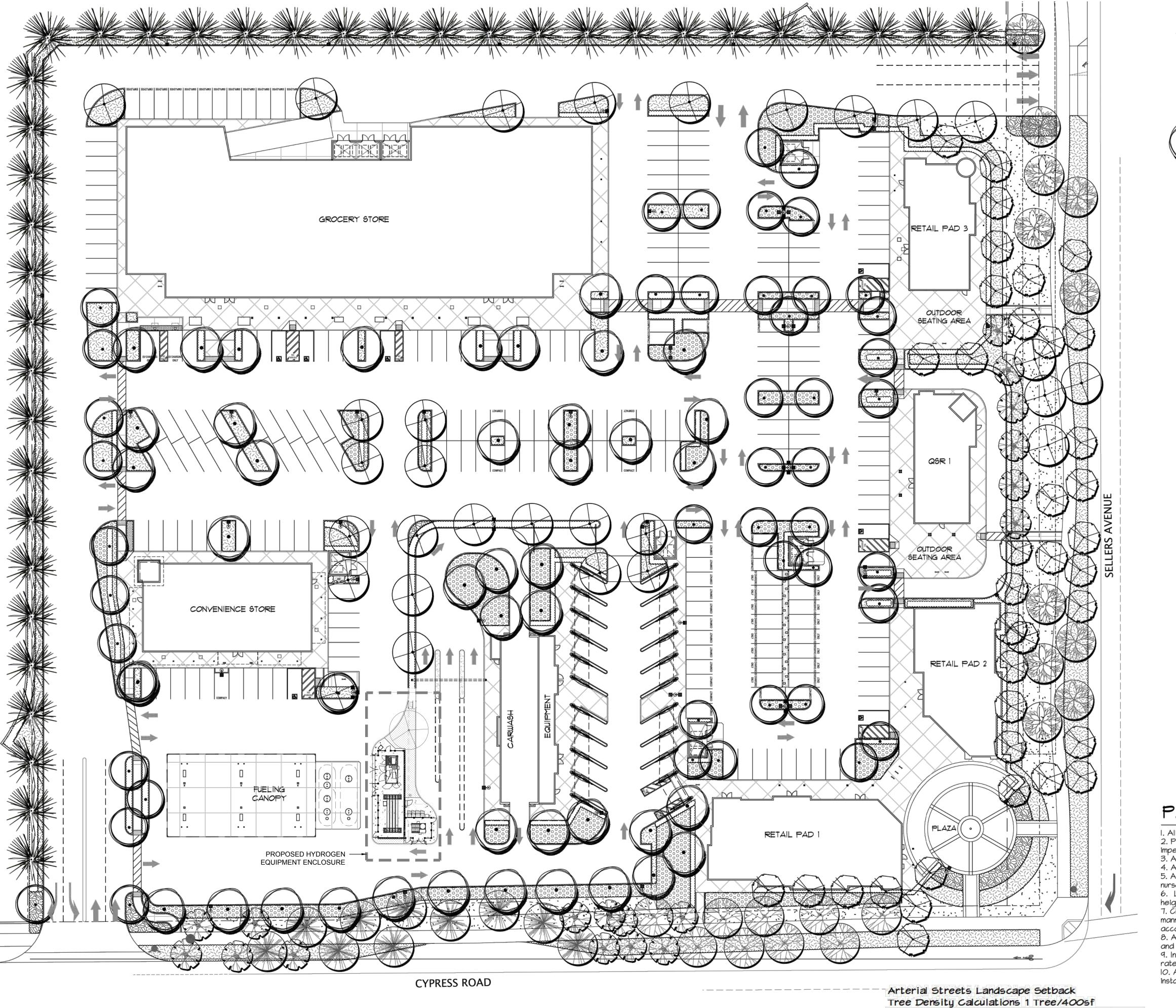
SHELL PROPOSED HYDROGEN **FUELING STATION** 

SITE ADDRESS:

920 CYPRESS RD. @ SELLERS AVE. OAKLEY, CA 94561

| IM             | POF            |
|----------------|----------------|
| CHECKED BY:    | MEP PM:        |
| TH             |                |
| DRAWN BY:      | CONSULTANT PM: |
| IM             |                |
| DATE:          | PROJECT NO.:   |
|                |                |
| 09/08/2022     | 16752          |
| DRAWING TITLE: | 10102          |
| DRAWING TITLE: |                |

**EQUIPMENT ENCLOSURE ELEVATIONS** 





PRELINARY LANDSCAPE PLAN

GRAPHIC SCALE: I" = 30'-0"

1" = 30'-0"

NOTE: DRAWING FOR REFERENCE

ONLY AND NOT TO SCALE.

Parking Lots Sahde Calculation

Parking Lot Surfave (sf) 186,000 50% SHADE AREA REQUIRED (SF)= 93,000 TOTAL SHADE AREA PROVIDED (SF)= 111,397 PERCENT SHADE= 59.89%

Cypress Road 624 If X 22' Landscape Setback 13728 sf 13728 sf / 400 = 35 Provided

> 540 If X 22' Landscape Setback 11880 sf / 400 =

30 Provided 33

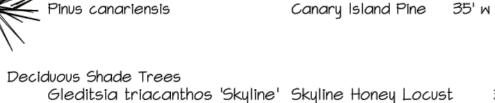
## PLANTING LEGEND



Australian Willow 25' w

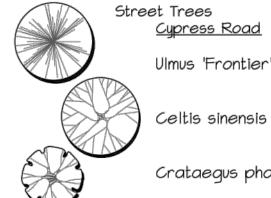
Jacaranda

35' w





Lagerstroemia indica 'Tuscarora' Crape Myrtle 25' w



Street Trees <u>Cypress Road</u>

Frontier Elm 30' W

Chinese Hackberry 40' w Celtis sinensis

Crataegus phaenopyrum Washington Thorn 20' w

Jacaranda mimosifolia

<u>Sellers Avenue</u>

Southern Live Oak 50' w Quercus virginiana

Pistacia chinensis 'Keith Davey' Chinese Pistache 45' w

Crape Myrtle 25' w Lagerstroemia indica 'Tuscarora'

### Shrubs and Vines

Screen Shrubs at Property Line and Trash Enclosures Dodonaea viscosa 'Purpurea' Purple Hopseed Bush Dodonaea viscosa Hopseed Bush

Hedge and Shrubs

Xylosma conqestum

Xylosma conqestum Grevillea X Scarlet Sprite' Rhaphiolepis indica 'Springtime'

Waxleaf Privet Shiny Xylosma Scarlet Sprite Grevillea Springtimė Rhaphiolepis

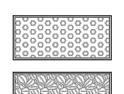
Shiny Xylosma

Parthenocissus tricuspidata Boston Ivy

# <u>Ground Cover</u>



Rosmarinus officinalis 'Huntington Carpet' Rosemary Myoporum parvifolium 'Putah Creek' Prostrate Myoporum Cotoneaster dammeri 'Lowfast' / Lowfast Cotoneaster



Cistus salviifolius 'Prostratus' Chondropetalum elephantinum Juncus patens 'Eniama'

Annual Flowers

Large Cape Rush Blue Ca. Gray Rush

Sageleaf Rockrose

# PLANTING NOTES

I. All trees are to be staked as shown in the staking diagram per city requirement. 2. Plant locations are to be adjusted as necessary to screen utilities but not block windows or

impede access.

3. All ground cover and shrub areas shall be top-dressed with a 3" layer of bark mulch.

4. All Planting and Irrigation shall comply with Water Efficient Landscape Ordinance.

5. All plant material shall be nursery grown stock. All plant materials shall be tagged at the nursery at least I month prior to planting for the Landscape Architects review.

6. Landscaping shall be maintained in a manner to prevent landscaping from growing above 3' in height in the areas indicated in the plans as being located within a safety visibility triangle area.

7. CERTIFICATION: Prior to occupancy, the Landscape Architect shall certify in writing in a manner acceptable to the Building inspection Division, that the landscaping has been installed in accordance with all aspects of the approved landscape plans.

accordance with all aspects of the approved landscape plans. 8. A minimum of 8" of non-mechanically compacted soil shall be available for water absorption and root growth in planted areas.

9. Incorporate compost or natural fertilizer into the soil to a minimum depth of 8" at a minimum rate of 6 cubic yards per 1000 square feet. 10. All Plantings shall be automatically irrigated utilizing state of the art system, components and installation techniques.

> Ciardella Suite D100-A Carmel by the Sea, CA 93921 Tel 831 624 6100 Landscape Architecture Tel 650 326 6100 ca@ciardella-assoc.com





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DEVELOPMENT INFORMATION: SHELL PROPOSED

HYDROGEN

**FUELING STATION** 

SITE ADDRESS:

920 CYPRESS RD. @ SELLERS AVE. OAKLEY, CA 94561

| DATE: 09/08/2022  | PROJECT NO.: 16752 |
|-------------------|--------------------|
| DRAWN BY:<br>TH   | CONSULTANT PM:     |
| CHECKED BY:<br>TH | MEP PM:            |
| TH                | ВН                 |
| DESIGNED BY:      | FG PM:             |

SITE DEVELOPMENT LANDSCAPE PLAN (FOR REFERENCE)