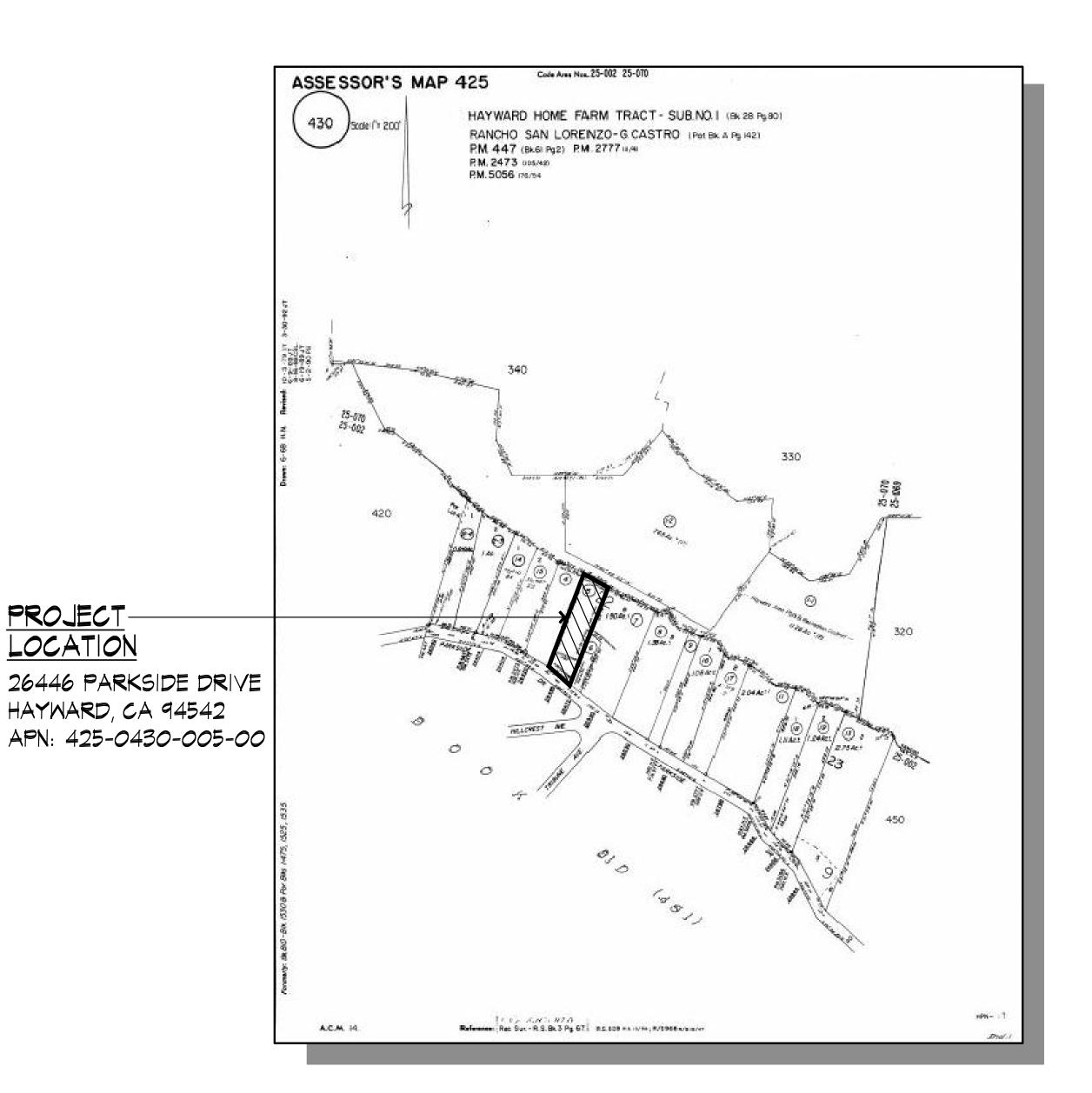
ATTACHMENT IV

ZHANG RESIDENCE 26446 PARKSIDE DRIVE HAYWARD, CA 94542



PARCEL MAP

PROJECT DATA

PROPOSED BUILDING INFORMATION LOT AREA: 39, 838 S.F. 3,023 S.F.

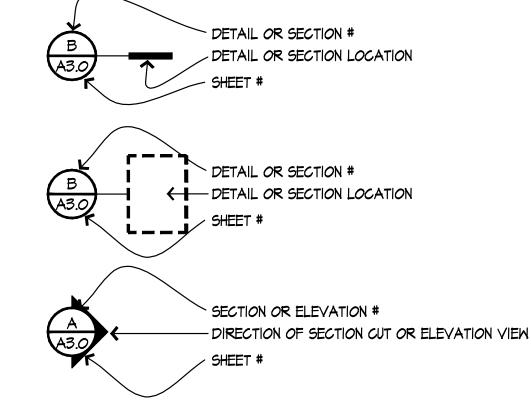
505.50 S.F. MAIN LEVEL: 2780.00 S.F. LOWER LEVEL: 1630.00 S.F. 4410.50 S.F.

TOTAL FLOOR S.F.:

SETBACKS: 20'-0" FRONT YARD: RIGHT SIDE YARD: 20'-0" LEFT SIDE YARD: 10'-0"

PROJECT DESCRIPTION

SYMBOL LEGEND



COLUMN LINE GRID & NUMBER

WINDOW NUMBER

DOOR NUMBER

OWNER:

CONAN ZHANG

email: cyninc@qmail.com

ARCHITECT: CIVIL/STRUCTURAL ENGINEER:

PROJECT DIRECTORY

RICHARD JANZEN ARCHITECTURE RICHARD C. JANZEN, ARCHITECT 6812 PASO ROBLES DRIVE OAKLAND, CA 946111 (510) 339-7380 tel email: rich7arch@sbcqlobal.net

RP ASSOCIATES, INC. CONSULTING ENGINEERS RAMAN PATEL, P.E. 140 MAYHEW WAY, SUITE 507 PLEASANT HILL, CA 94523 (415) 863-9647 tel email: Raman@rpace.com

LANDSCAPE ARCHITECT:

MARY WEBER LANDSCAPE ARCHITECT MARY WEBER, L.A. 1831 ARDITH DRIVE PLEASANT HILL, CA 94523 (925) 682-9064 tel email: mary@weberla.com

APPLICABLE CODES

CODES INFORMATION:

GABEL ASSOCIATES, LLC.

(510) 428-0803 tel

20825 NUNES AVENUE, SUITE A

email: office@gabelenerqy.com

CASTRO VALLEY, CA 94546

2013 EDITION OF THE CALIFORNIA BUILDING CODE.

2013 EDITION OF THE CALIFORNIA MECHANICAL CODE 2013 EDITION OF THE CALIFORNIA ELECTRICAL CODE

2013 EDITION OF THE CALIFORNIA PLUMBING CODE 2013 EDITION OF THE CALIFORNIA FIRE CODE

BUILDING CONSTRUCTION TYPE ZONING:

NUMBER OF STORIES:

OCCUPANCY:

R3 - RESIDENTIAL

FIRE SPRINKLERS:

DRAWING INDEX

ARCHITECTURAL

TITLE SHEET AND PROJECT DATA

ARCHITECTURAL SITE PLAN - EXISTING DEMO AND PROPOSED CONSERVATION EASEMENT SITE PLAN

A2.0 MAIN LEVEL FLOOR PLAN LOWER LEVEL FLOOR PLAN ROOF PLAN EXTERIOR ELEVATION EXTERIOR ELEVATION

EXTERIOR ELEVATION EXTERIOR ELEVATION DOOR AND WINDOW SCHEDULES COLOR / MATERIAL BOARD

LANDSCAPE

TREE PRESERVATION PLAN LANDSCAPE LAYOUT PLAN GRADING PLAN PLANTING PLAN L-3 IRRIGATION PLAN LANDSCAPE DETAILS LANDSCAPE DETAILS IRRIGATION DETAILS

CIVIL

TITLE SHEET C-2 SITE PLAN C-3 DRAINAGE AND GRADING/UTILITY PLAN ENLARGED PLAN SHEET-I C-5 ENLARGED PLAN SHEET-2 DRIVEWAY PROFILE C-7 CIVIL STANDARD DETAILS SHEET-I CIVIL STANDARD DETAILS SHEET-2

EROSION CONTROL PLAN EROSION CONTROL DETAILS

EXISTING SURVEY

LOCATION

GENERAL NOTES

LOCATION

- THESE DRAWINGS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS WITH WHICH THE SPECIFICATIONS ARE INTENDED TO COORDINATE ANYTHING IN ONE BUT NOT IN THE OTHER IS TO BE EXECUTED AS IF IN BOTH. DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR ACCEPTS LIABILITY BY NOT REPORTING ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
- 2. DO NOT SCALE THE DRAWINGS. DIMENSIONS TAKE PRECEDENCE OVER SCALE OF DRAWINGS. LARGER SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE. REPORT ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- 3. WHEN A CLOUD APPEARS IN THESE DRAWINGS, NOTE THAT THE INFORMATION ENCIRCLED HAS BEEN REVISED FROM THE PREVIOUS CONDITION.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. ALL INCONSISTENCIES SHALL BE NOTICED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR ASSUMES LIABILITY FOR NON-NOTIFICATION TO THE ARCHITECT.
- 5. ALL DIMENSIONS ARE TO FACE OF STUD OR FRAMING OR CENTER LINE OF COLUMN OR MULLION, UNLESS OTHERWISE NOTED.

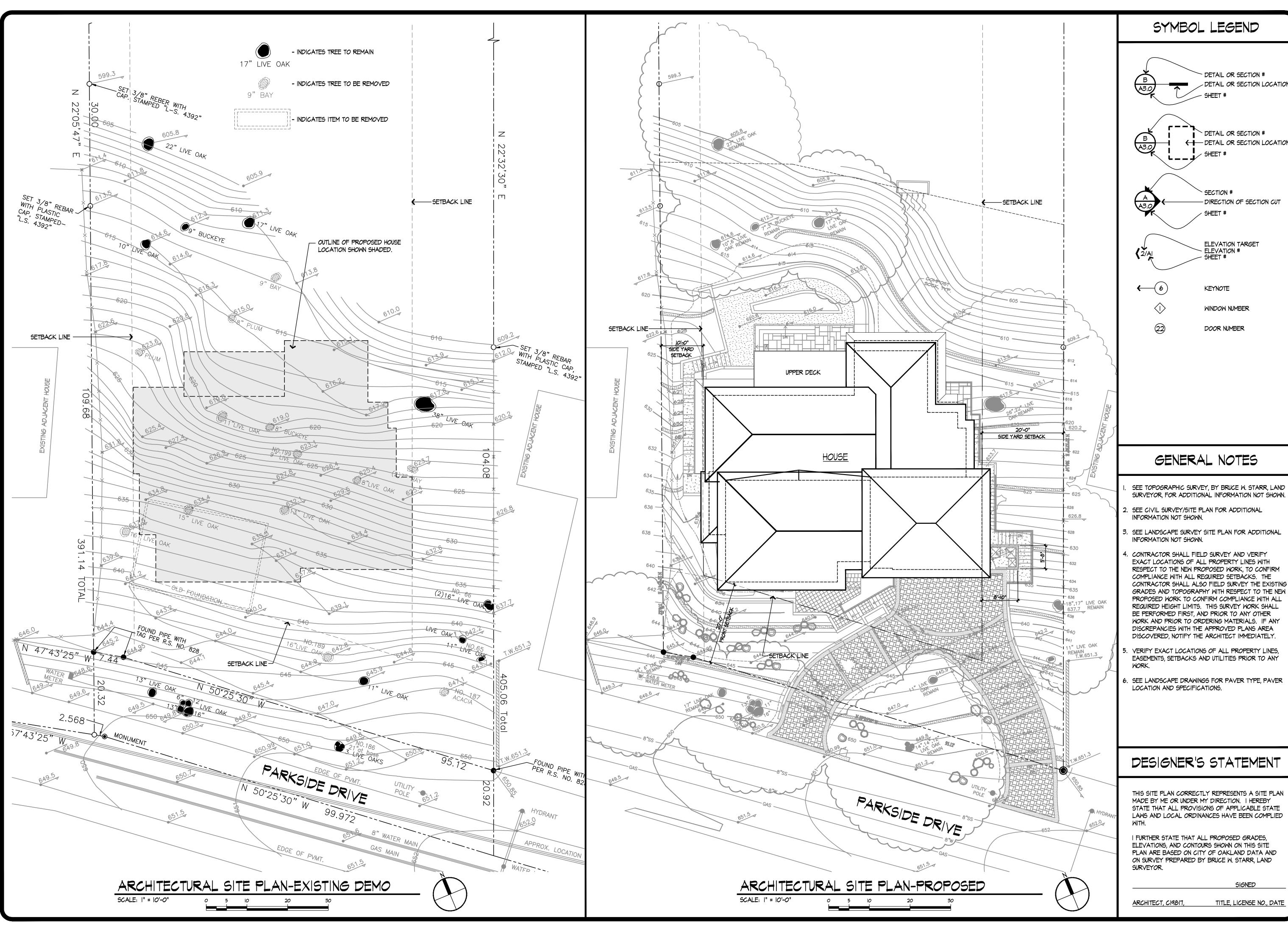
- PROTECT AREAS OF NEW OR EXISTING MATERIALS AND FINISH FROM DAMAGE WHICH MAY OCCUR FROM CONSTRUCTION, DUST, WATER, ETC. PROVIDE AND MAINTAIN TEMPORARY BARRIERS, CLOSURE WALLS, ETC., AS REQUIRED TO PROTECT NON-CONSTRUCTION PERSONNEL. REPAIR OR REPLACE DAMAGE TO NEW OR EXISTING MATERIALS, FINISHES, STRUCTURES, AND EQUIPMENT AS REQUIRED BY THE ARCHITECT.
- REMOVE RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS, OR DUST FROM AFFECTING, IN ANY WAY, FINISHED AREAS IN OR OUTSIDE THE JOB SITE.
- 8. THE CONSTRUCTION DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE GENERAL DESIGN AND TYPE OF CONSTRUCTION DESIRED, AND IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP THROUGHOUT. THESE DOCUMENTS DO NOT INTEND TO REFLECT EVERY CONDITION OF CONSTRUCTION. CONTRACTOR SHALL PROJECT THE INTENT OF THESE DOCUMENTS TO THE ENTIRE CONSTRUCTION WHETHER SPECIFICALLY ILLUSTRATED OR NOT.
- 9. PROTECT AT ALL TIMES THE PROPERTY OF THE BUILDING OWNER AND THOSE OF HIS ADJACENT PROPERTY OWNERS IN REFERENCE TO THIS WORK.
- 10. PROVIDE TEMPORARY UTILITIES THROUGHOUT PROJECT AREA, FOR THE DURATION OF THIS PROJECT AS REQUIRED.

janzen architecture

ARD

REVISIONS

CHECKED DATE FEBRUARY 06, 2017 SCALE AS NOTED JOB NO. SHEET



SYMBOL LEGEND

DETAIL OR SECTION #

DETAIL OR SECTION # DETAIL OR SECTION LOCATION

-DIRECTION OF SECTION CUT

ELEVATION TARGET

- ELEVATION # - SHEET #

KEYNOTE

WINDOW NUMBER

DOOR NUMBER

SECTION #

SHEET #

DETAIL OR SECTION LOCATION

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architecture

RICHARD

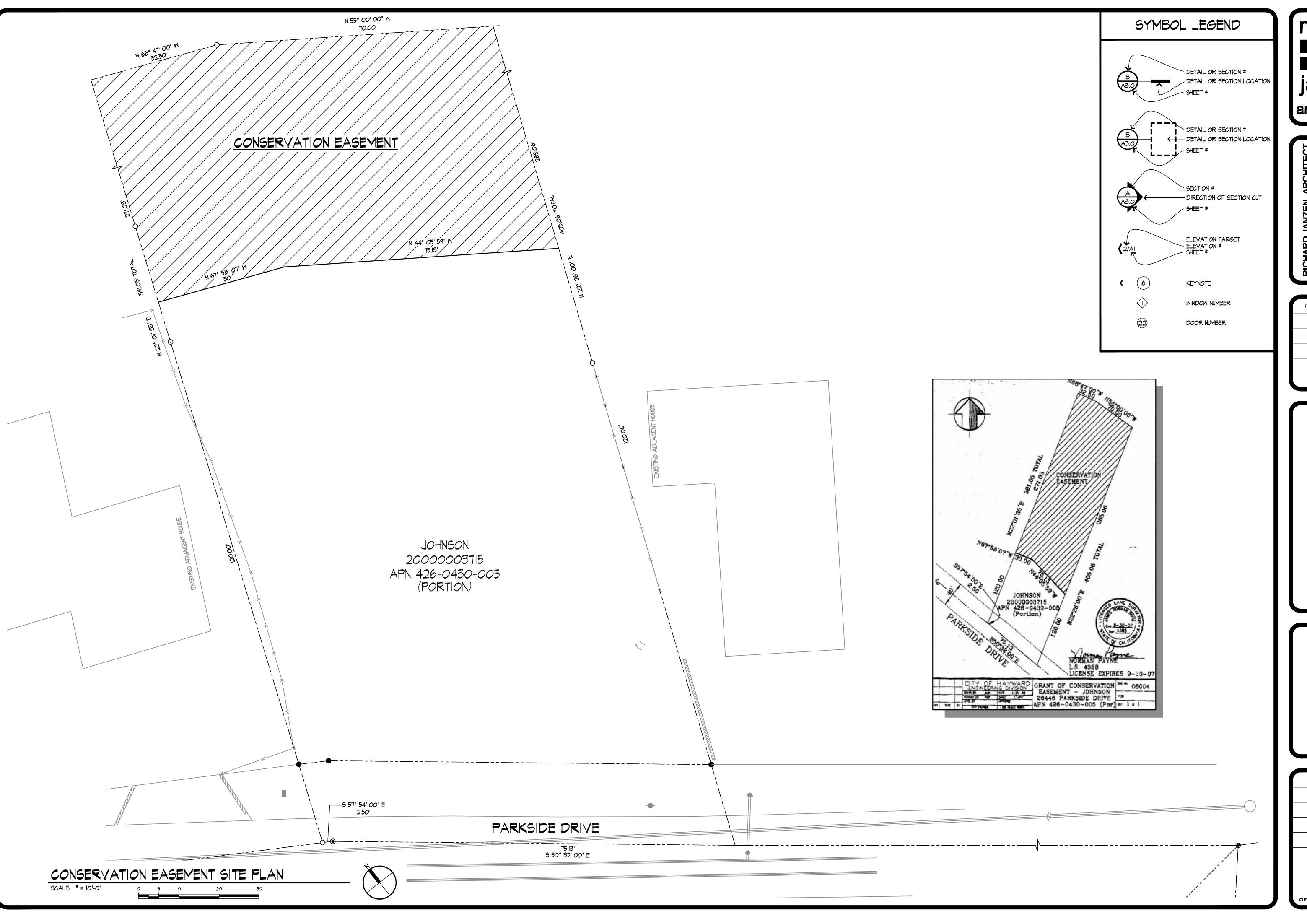
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TITLE, LICENSE NO., DATE



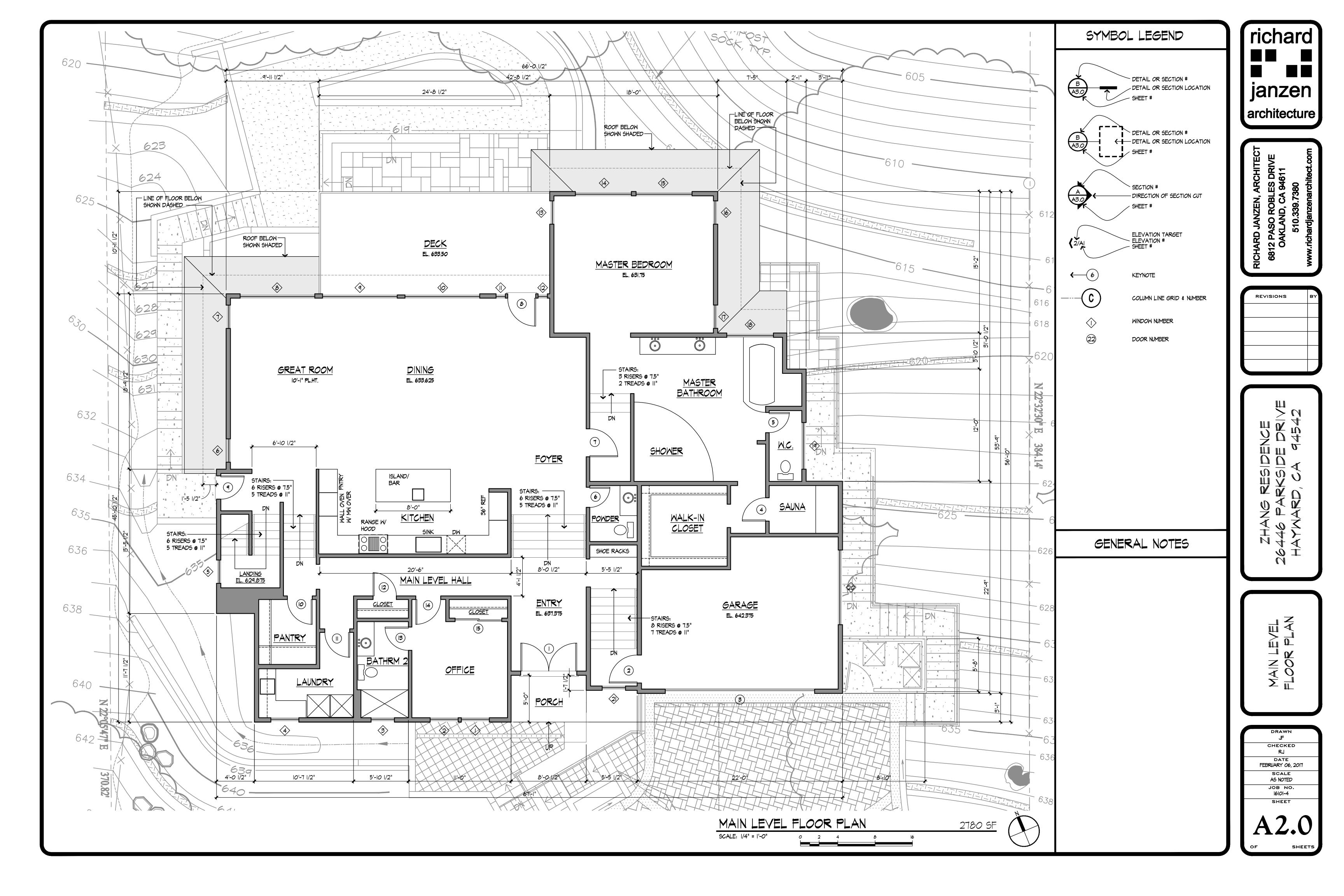
> RICHARD JANZEN, ARCHITECT 6812 PASO ROBLES DRIVE OAKLAND, CA 94611 510.339.7380

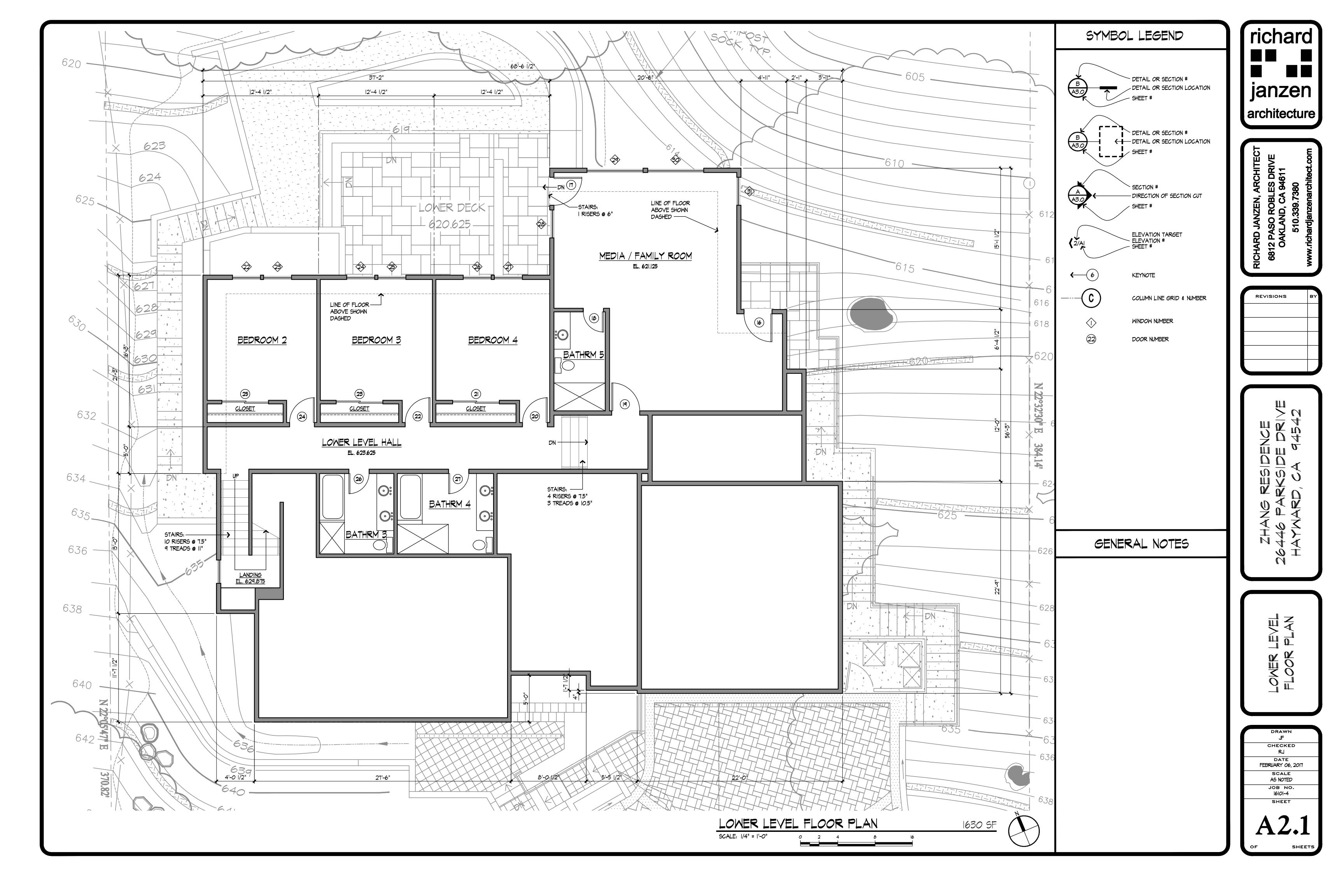
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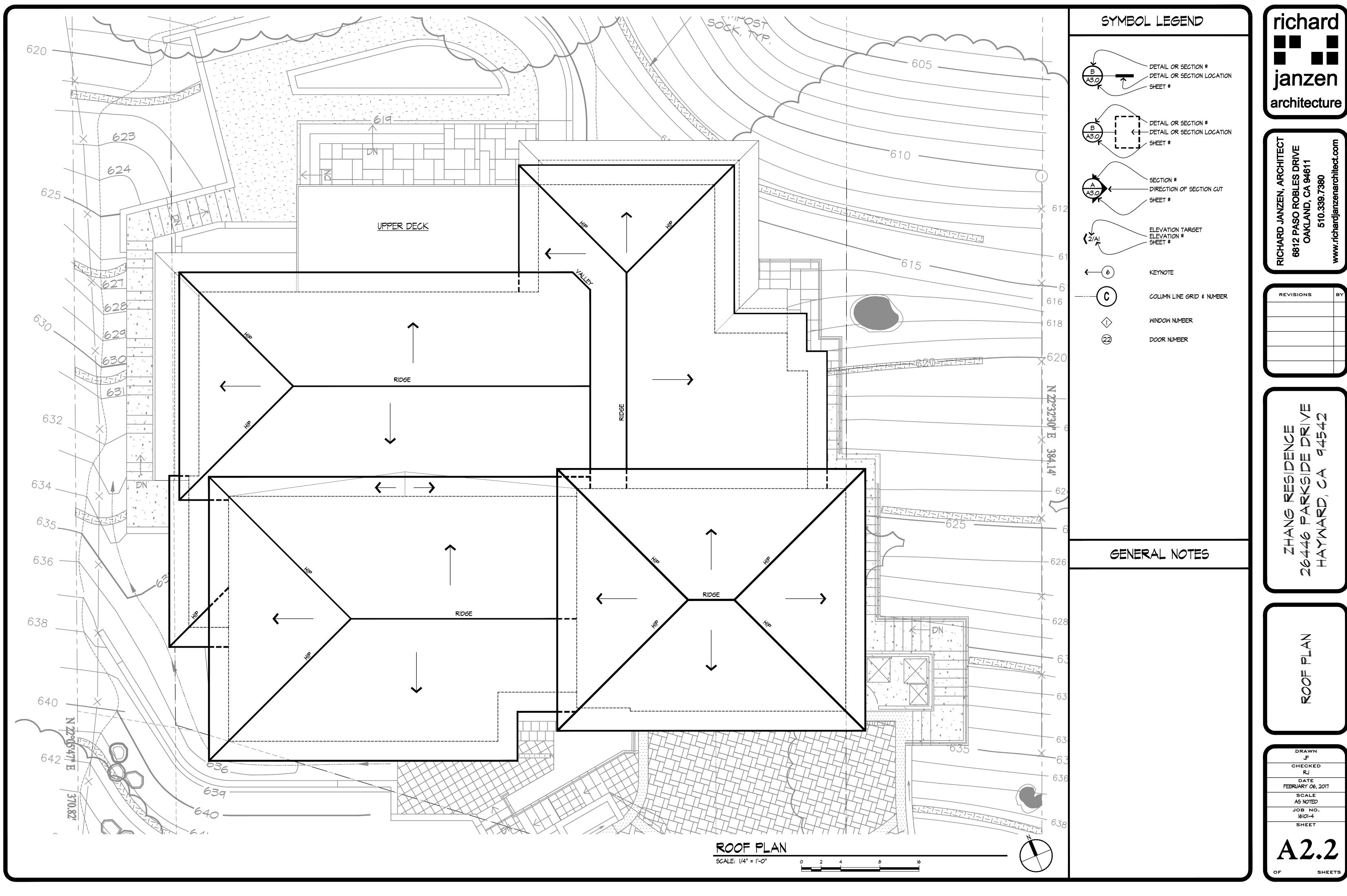
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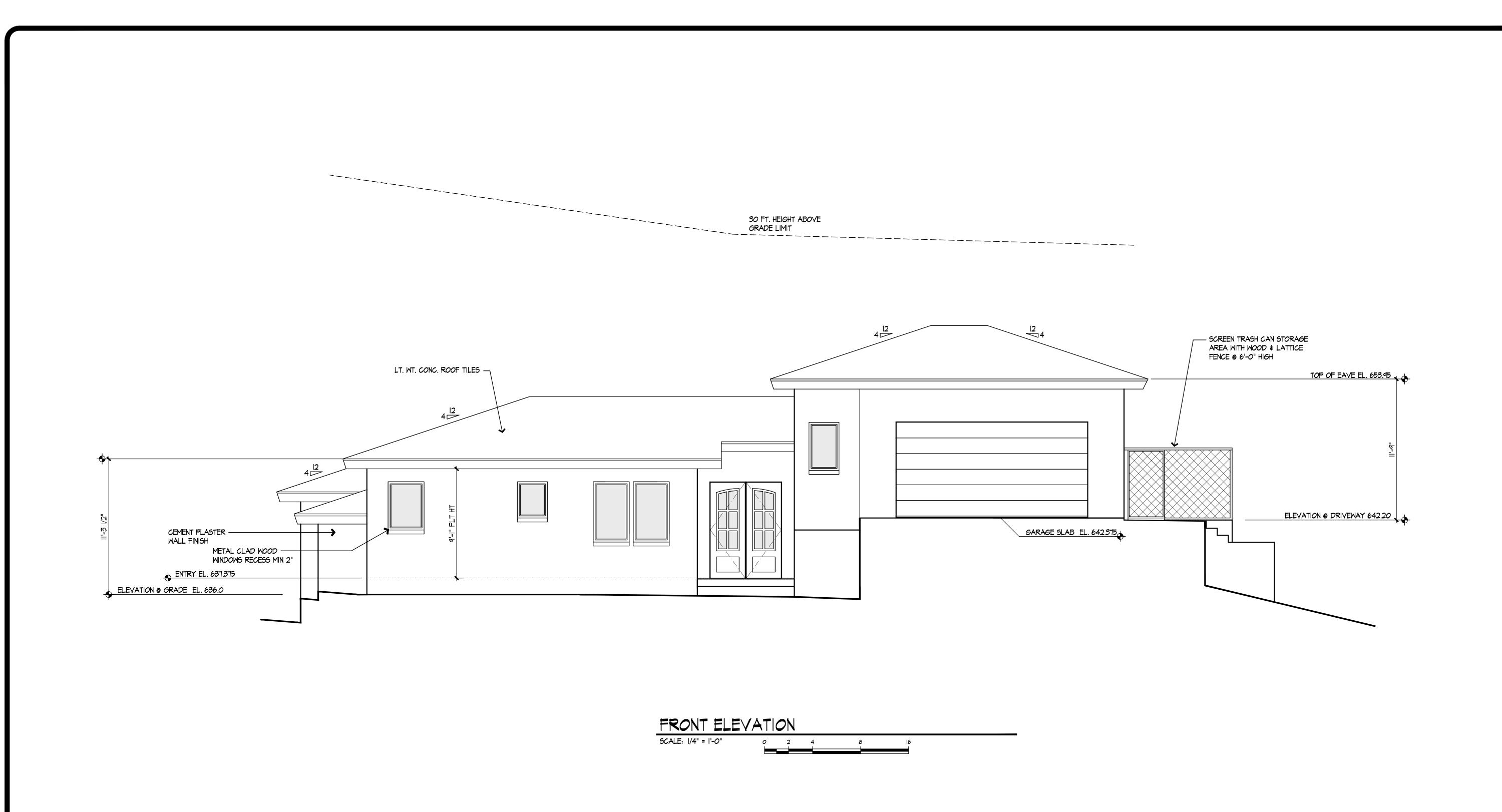
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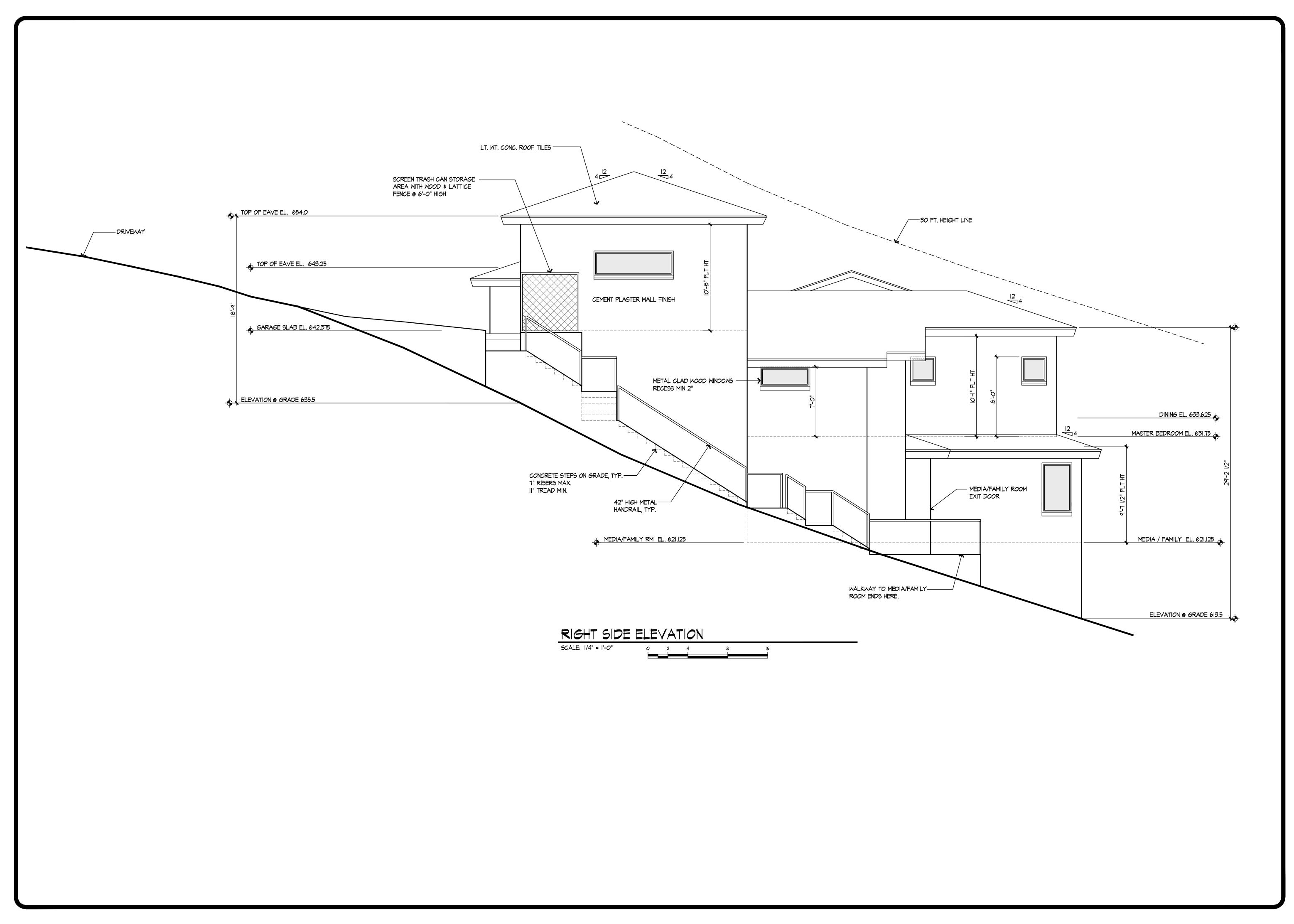
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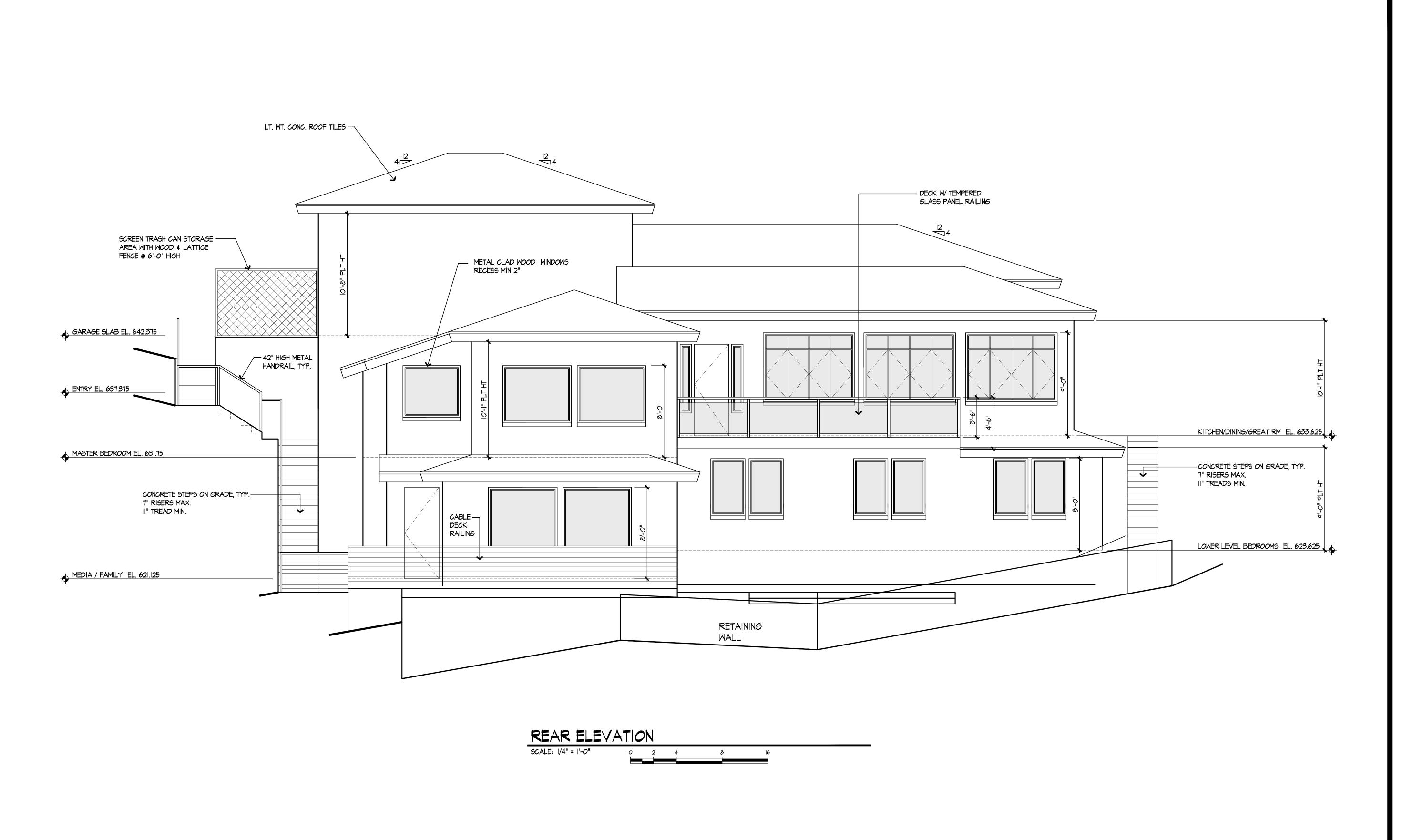


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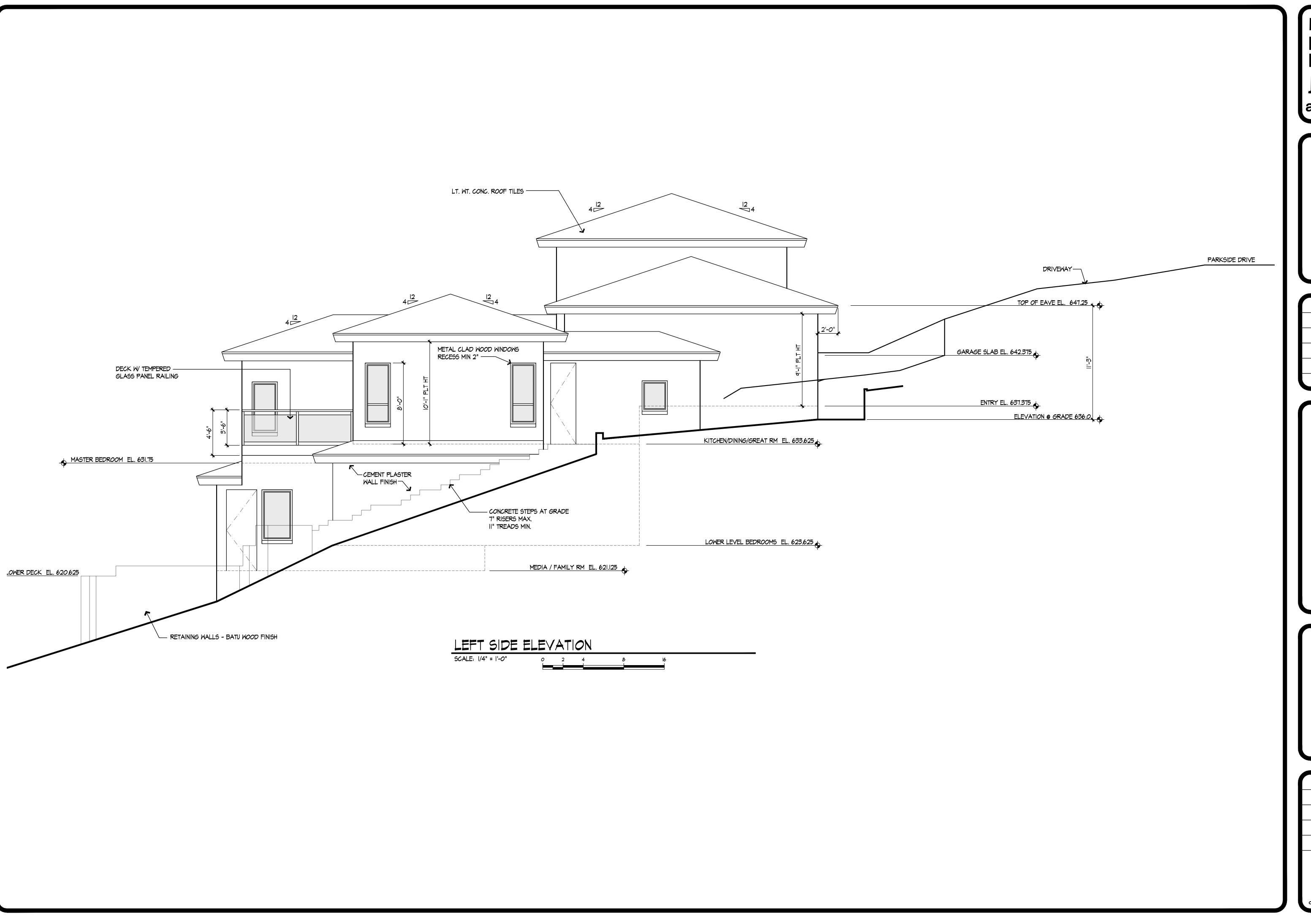
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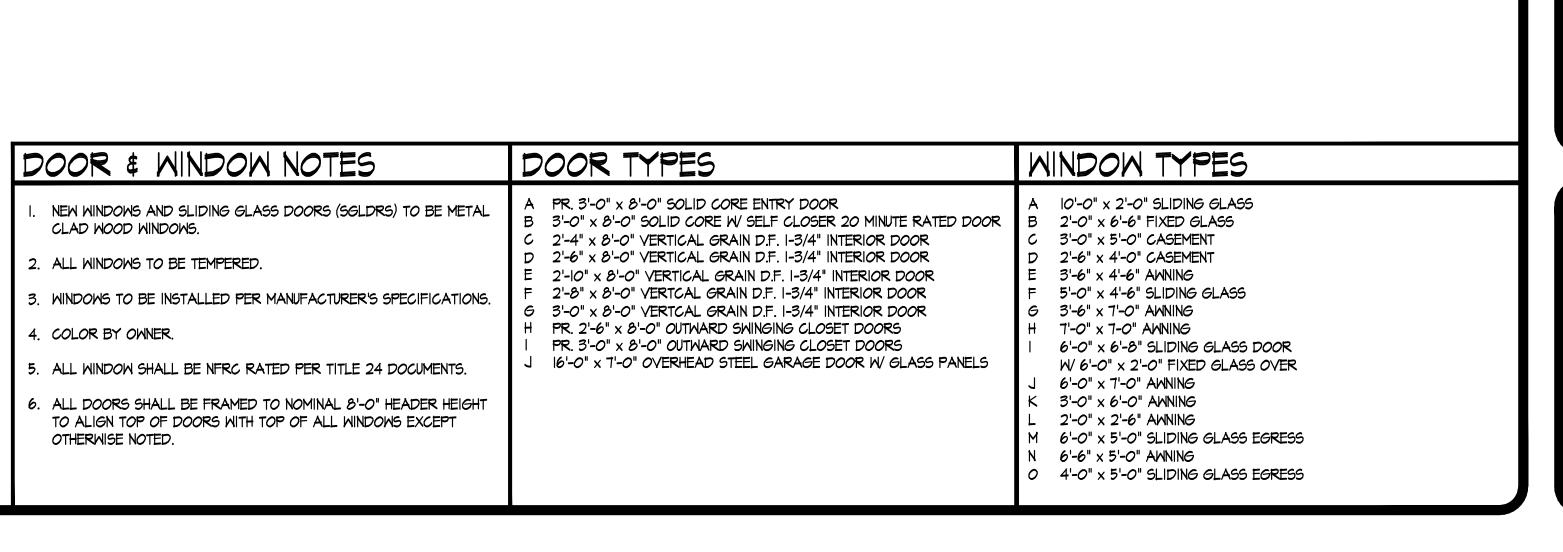
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				DOOR SC	HEDULE						M	NDOW S	CHEDI	JLE			
DOOR #	FLOOR LEVEL	LOCATION	TYPE	MATERIAL	MIDTH	HEIGHT	REMARKS	MINDOM #	FLOOR LEVEL	LOCATION	TYPE	MATERIAL	WIDTH	HEIGHT	HEADER	OPERATION	REMARKS
	MAIN LEVEL	ENTRY	X	X	PR. 3'-0"	8'-0"	PR. SOLID CORE ENTRY DOORS	$\langle i \rangle$	MAIN LEVEL	OFFICE	×	×	3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
2		GARAGE - WEST WALL			3'-0"	8'-0"	SOLID CORE W/ SELF CLOSER, 20 MINUTE RATED	${2}$		OFFICE			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
3		GARAGE DOOR			16'-0"	7'-0"	X	3		BATHROOM 2			2'-6"	3'-0"	8'-0"	CASEMENT	TEMPERED
4		SAUNA						4		LAUNDRY			3'-0"	4'-0"	8'-0"	CASEMENT	TEMPERED
5		MASTER BEDROOM - WATER CLOSET						5		STAIR LANDING			2'-6"	3'-0"	8'-0"	CASEMENT	TEMPERED
6		POWDER						6		GREAT ROOM - WEST WALL			2'-6"	3'-0"	8'-0"	CASEMENT	TEMPERED
7		MASTER BEDROOM - WEST WALL						7		GREAT ROOM - WEST WALL			2'-6"	3'-0"	8'-0"	CASEMENT	TEMPERED
8		DINING ROOM - NORTH WALL TO DECK						8		GREAT ROOM/DINING - NORTH WALL			10'-0"	5'-0"	11'-0"	4 PANEL CASEMENT	TEMPERED, w/ IO'-O" x 2'-6" FX GL. OVER
9		CLOSET						9		GREAT ROOM/DINING - NORTH WALL			10'-0"	5'-0"	11'-0"	4 PANEL CASEMENT	TEMPERED, w/ IO'-O" x 2'-6" FX GL. OVER
10		PANTRY						10		GREAT ROOM/DINING - NORTH WALL			6'-0"	2'-6"	11'-0"	FX GL. OVER	TEMPERED, OVER 6'-0" × 8'-0" SLGD
П		LAUNDRY								SIDE LITE - NORTH WALL			6'-0"	5'-0"	8'-0"	2 PANEL SL GL	TEMPERED
12		MAIN LEVEL HALL - CLOSET						12		SIDE LITE - NORTH WALL			6'-0"	5'-0"	8'-0"	2 PANEL SL GL	TEMPERED
13		BATHROOM 2						13		MASTER BEDROOM - WEST WALL			6'-0"	5'-0"	8'-0"	2 PANEL SL GL	TEMPERED
14		OFFICE						14		MASTER BEDROOM - NORTH WALL			2'-6"	2'-6"	8'-0"	CASEMENT	TEMPERED
15		OFFICE - CLOSET						15		MASTER BEDROOM - NORTH WALL			2'-6"	2'-6"	8'-0"	CASEMENT	TEMPERED
16	LOWER LEVEL	MEDIA / FAMILY ROOM - EAST WALL						16		MASTER BEDROOM - EAST WALL			5'-0"	4'-0"	8'-0"	2 PANEL SL GL	TEMPERED
17		MEDIA / FAMILY ROOM - WEST WALL						17		MASTER BEDROOM - EAST WALL			2'-6"	4'-0"	8'-0"	CASEMENT	TEMPERED
18		MEDIA / FAMILY ROOM - BATHROOM 5						18		MASTER BATHROOM - NORTH WALL			2'-6"	4'-0"	8'-0"	CASEMENT	TEMPERED
19		MEDIA / FAMILY ROOM						19		MASTER BATHROOM - WATER CLOSET			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
20		BEDROOM 4						20		GARAGE - EAST WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
21		BEDROOM 4 CLOSET						21		GARAGE STAIRWELL TO ENTRY			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
22		BEDROOM 3						22	LOWER LEVEL	BEDROOM 2 - NORTH WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
23		BEDROOM 3 CLOSET						23		BEDROOM 2 - NORTH WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
24		BEDROOM 2						24		BEDROOM 3 - NORTH WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
25		BEDROOM 2 CLOSET						25		BEDROOM 3 - NORTH WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
26		WEST WALL HALL ENTRY/EXIT						_ 26		BEDROOM 4 - NORTH WALL			6'-0"	5'-0"	8'-0"	2 PANEL CASEMENT	TEMPERED
27		BATHROOM 3						27		BEDROOM 4 - NORTH WALL			6'-0"	5'-0"	8'-0"	2 PANEL CASEMENT	TEMPERED
28		BATHROOM 4						28		MEDIA / FAMILY ROOM - WEST WALL			3'-0"	5'-0"	8'-0"	CASEMENT	TEMPERED
								29		MEDIA / FAMILY ROOM - NORTH WALL							
								30		MEDIA / FAMILY ROOM - NORTH WALL							
								31		MEDIA / FAMILY ROOM - EAST WALL							



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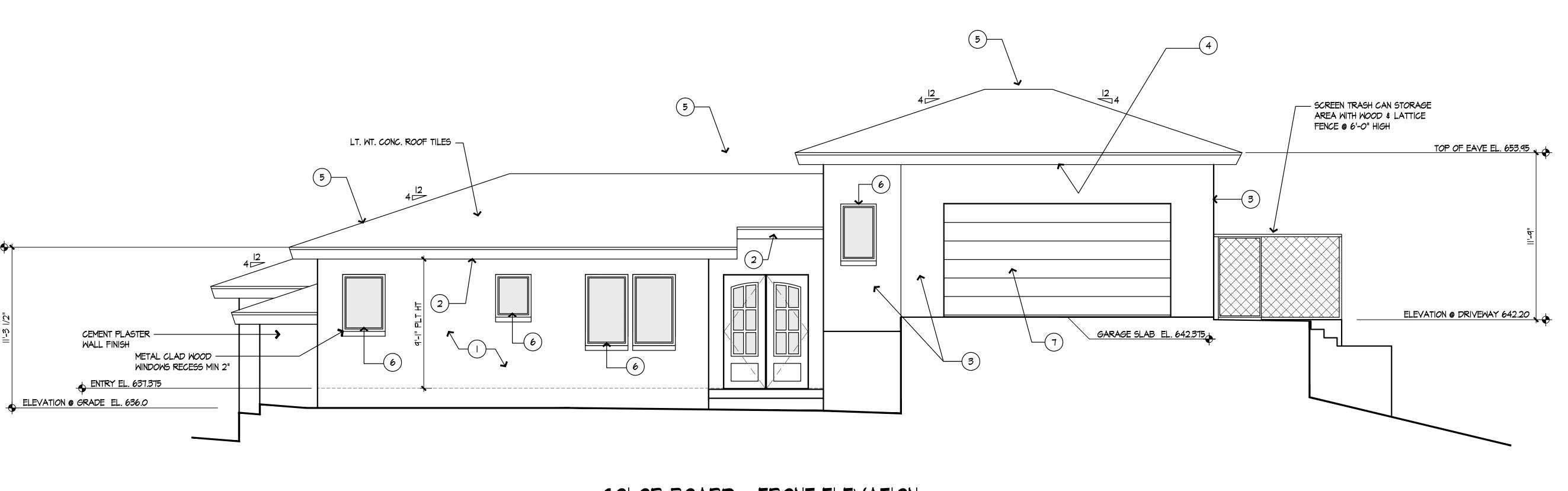
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DOOR & WINDOW SCHEDULES

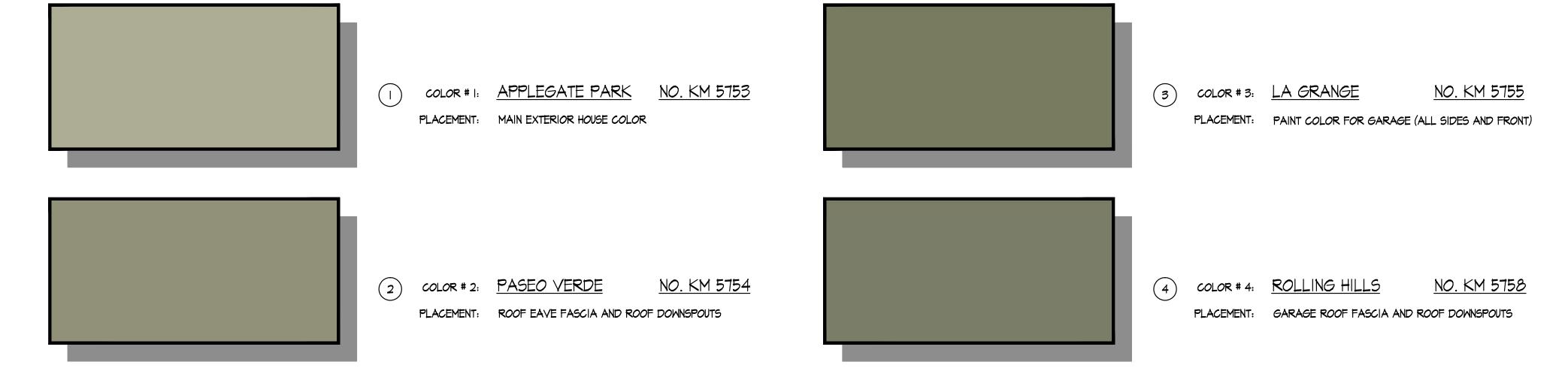
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EXTERIOR COLOR SPECIFICATIONS



COLOR SPECIFICATIONS NOTES

- I. EXTERIOR DWELLING COLORS AND GARAGE FRONT FACE SHALL BE BY PAINT MANUFACTURER "KELLY-MOORE PAINT" OR EQUAL.
- ROOFING SHALL BE BY ROOFING MANUFACTURER "EAGLE ROOFING PRODUCTS" 4602 CONCORD BLEND, PROFILE: BEL AIR DESCRIPTION: CHARCOAL, TAN BLEND OR EQUAL.
- 3.
 WINDOWS SHALL BE BY WINDOW MANUFACTURER "ANDERSEN WINDOWS" VINYL CLAD WOOD INTERIOR #400
 SERIES WINDOWS OR EQUAL.

ROOF SPECIFICATIONS



5 COLOR # 5: CONCORD BLEND NO. 4602
PLACEMENT: LIGHTWEIGHT CONCRETE ROOF TILES

WINDOW SPECIFICATIONS



6 COLOR # 6: TERRATONE

PLACEMENT: EXTERIOR FRAME (CLADDING)

GARAGE DOOR SPECIFICATIONS



7 COLOR # 7: MUD ROOM NO. KM 4575

PLACEMENT: EXTERIOR FACE OF GARAGE DOOR

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GUBIC FOOT

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QUBIC

MINIMUM
ON CENTER
OUTSIDE DIAMETER
POINT OF CONNECTION
PRESSURE TREATED
RADIUS
SCHEDULE
SHEET
SCORELINE
SANITARY SEMER
STANDARD
SQUARE
STYMPOL
TO BE DETERMINED
TOP OF GRATE
TOP OF STAIR
TOP OF WALL
TYPICAL
VERTICAL
WATER

HIGH POINT HEIGHT INCLUDED INSIDE DIAMETER INVERT JOINT TRENCH LOW POINT LINEAR FEET

MAXIMUM MINIMUM

GENERAL NOTES

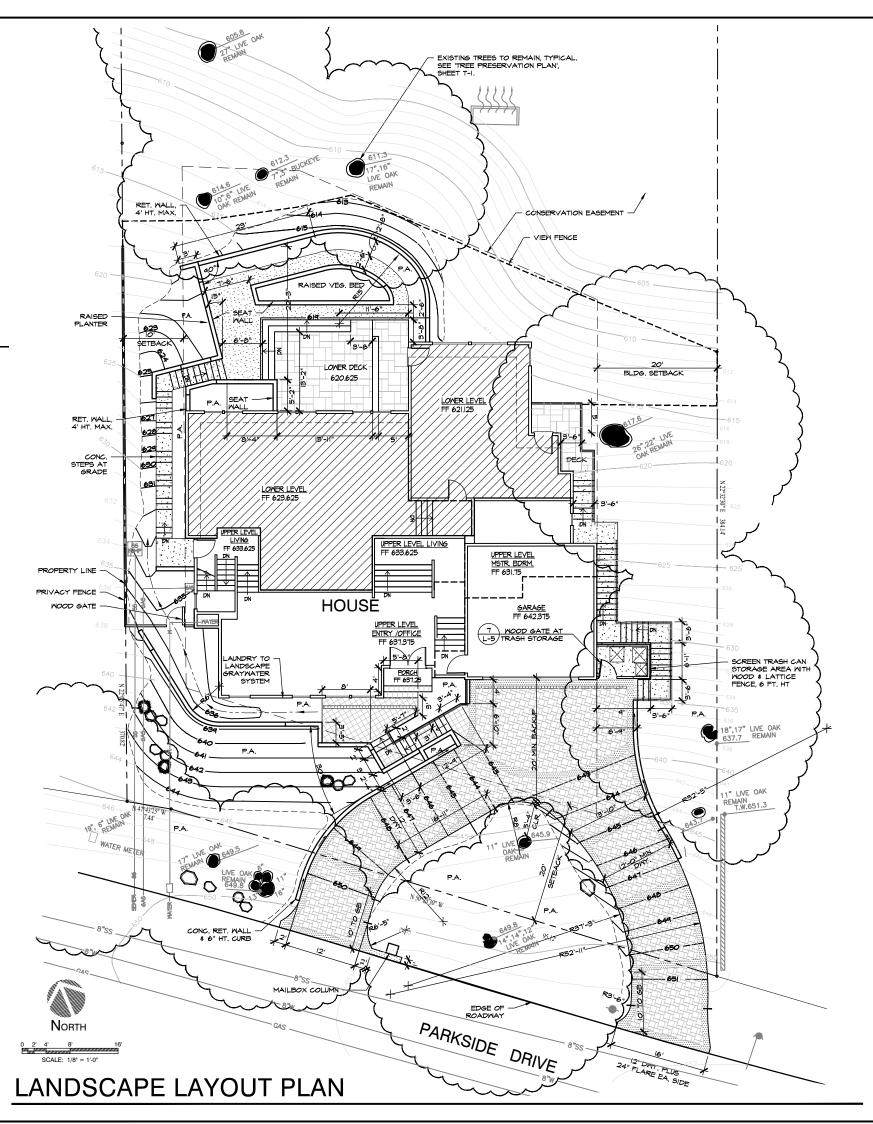
CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, GRADES, UNDERGROUND UTILITIES, DRAIN LINES, CONDUITS, VEGETATION, ECT. IN THE FIELD PRIOR TO COMMENCING WORK. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2588 TO REQUEST THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.

- ALL LANDSCAPE CONSTRUCTION AND MATERIALS INCLUDING DEMOLITION, GRADING, ELECTRICAL, IRRIGATION & PLANTING SHALL CONFORM TO GOVERNING CODES AND ORDINANCES.
- 3. CONTRACTOR SHALL CONSULT APPROPRIATE AGENCIES FOR CONDITIONS AFFECTING THE PROPOSED IMPROVEMENTS TO THE SITE. ALL REQUIRED PERMITS TO BE OBTAINED BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
- 5. CONTRACTOR SHALL NOT WILLFULLY PROCEED MITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH
- THESE PLANS REPRESENTS LANDSCAPE IMPROVEMENTS TO PLANS PROVIDED BY THE CIVIL ENGINEER. REFER TO SITE IMPROVEMENT PLANS AND ARCHITECTURAL PLANS FOR CURRENTS INFORMATION REGARDING GRADING, DRAINAGE, BUILDINGS, PAVING, UTILITIES AND
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES TO ASSURE THE INTEGRITY OF ALL WORK.

MAINTENANCE:
THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE PROJECT FOR
30 DAYS FOLLOWING APPROVAL TO BEGIN THE MAINTENANCE
PERIOD. REGULAR WATERING, CULTIVATING, WEEDING, REPAIR OF
STAKES AND TIES, FINE TUNING IRRIGATION SYSTEM AND SPRAYING
FOR INSECTS SHALL BE PERFORMED. PLANTS SHALL BE FERTILIZED
AS NECESSARY TO MAINTAIN VIGOROUS GROWTH AND GOOD COLOR.

SITE OBSERVATIONS:
THE LANDSCAPE CONTRACTOR IS TO NOTIFY THE OWNER'S
REPRESENTATIVE 48 HOURS PRIOR TO A REQUIRED SITE
OBSERVATION, SITE OBSERVATIONS ARE AS FOLLOWS:
A. ONE SITE OBSERVATION OF INSTALLED HARDSCAPE ELEMENTS
INCLUDING PAVING, STAIRS AND WALLS AND GRADING &
DRAINAGE.
B. ONE SITE OBSERVATION OF IRRIGATION SYSTEM, REFER TO
IRRIGATION NOTIFS

- B. ONE SITE OBSERVATION OF IRRIGATION SYSTEM, REFER TO IRRIGATION NOTES.
 C. ONE SITE OBSERVATION ONCE PLANTS ARE ON-SITE BUT PRIOR TO PLANTING FOR REVIEW OF QUALITY OF DELIVERED PLANT MATERIALS AND SPOT LOCATIONS OF TREES.
 D. PUNCH LIST SITE OBSERVATION SHALL BE MADE WHEN ALL WORK IS INSTALLED. ONCE THE CONTRACTORS WORK HAS BEEN INSTALLED. THE SATISFACTION OF THE OWNER'S REPRESENTATIVE THE MAINTENANCE PERIOD SHALL BESIN.
 E. FINAL SITE OBSERVATION SHALL BE MADE AT THE CONCLUSION OF THE MAINTENANCE PERIOD. PRIOR TO FINAL SITE OBSERVATION, ALL LANDSCAPE AREAS ARE TO BE WEED FREE AND ALL PLANTS IN A HEALTHY THRIVING CONDITION. NOTIFY THE OWNER'S REPRESENTATIVE 4 DATS PRIOR TO ANTICIPATED DATE OF THE FINAL SITE OBSERVATION.
- IO. CERTIFICATE OF SUBSTANTIAL COMPLETION: PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY CONTRACTOR SHALL SUBMIT A CERTIFICATE OF SUBSTANTIAL COMPLETION FOR PHASE ONE TREE MITIGATION WORK, CERTIFICATE AVAILABLE AT



LANDSCAPE CONSTRUCTION LEGEND DESCRIPTION

DRIVEWAY DRIVENAY FIELD - MODULAR PAVERS, BOMM MANU: BASILITE' FAVERS STYLE: ARTISAN SI ATE PREMIER' PATTERN: BLEND (60% 12x12, 40% 6x12) COLOR: POSITANO

5" MIDE DRIVEWAY BANDS - COLORED STAMPED CONCRETE TEXTIRE: MEDIUM SLATE W SCORELINES 92" O.C. INTEGRAL COLOR: 'DAVIS'-'OMAIN ANN 'SCOB4, I LB/SAC CEMENT ANTIQUE RELEASE: 'BRICKFORM' - MEDIUM GRAY' REFER TO GEOTECHNICAL REPORT FOR DWY. SPECS.

ENTRY MALK - PERMEABLE PAVERS, 60mm

MANJ: BASILITE'
- STYLE: PERMEABLE ARTISAN SLATE'
- PATTERI: HERRINGBONE' 100% RECTANGLE (5.5"x8.25"x60mm,
- COLOR; POSITANO'

ENTRY STAIRS - MODULAR PAVERS TREADS: BASILITE' STYLE: 12"X12" VARTISAN SLATE PREMIER' COLOR: "POSITANO"

CONCRETE PAVING & STAIRS (SIDEYARD) - HEAVY BROOM FINISH, NO COLOR

DECKS - COLORED STAMPED CONCRETE
- REFER TO ARCHITECT'S PLANS
- RAILINGS; BLACK T.S. 42" HT, MIN, 45" HT, MAX
- REFER TO ARCH, PLANS FOR DETAILS

RETAINING MALLS & SEAT MALLS
- 'VERSA-LOK' 'COMPAC' 'CLASSIC SPLIT-FACE'
- COLOR, TBD
- REFER TO STRUC, ENGR'S RECOMMENDATIONS,
-DENOTES SLOPE AT 10P OF WALL;
ALL OTHER WALLS SHALL BE LEVEL

PRIVACY FENCE WOOD W LATTICE TOP, 6 FT. HT.

VIEW FENCE WOOD & WIRE, 6 FT. HT., MAX. HANDRAIL AT STAIRS BLACK TUB, STEEL,

LANDSCAPE BOULDER GROUPING HAND SELECTED 'MOSS FIELDSTONE' 3 BOULDERS MIN. AT EA. GROUPING, ONE-2' x 2.5' MIN., TWO-1.5' x 2' MIN. BOULDERS 'MOSS FIELDSTONE' - HEAD SIZE, MIN. LOCATE OUTSIDE OF TREE BASINS ON DOWNSLOPE SIDE AT ALL NEW TREES PLANTED.

--- UPPER LEVEL AT HOUSE

LOWER LEVEL AT HOUSE PLANTING AREA

IRRIGATION SLEEVE REFER TO IRRIGATION PLAN FOR LOCATIONS & SIZES

WATER EFFICIENT STATEMENT

THESE LANDSCAPE PLANS HAVE BEEN PREPARED TO COMPLY WITH THE CRITERIA OF THE CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ARTICLE 12, AND APPLIED THEM, ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

mary Webe S. MART WEBER Project Landscape Architect

<u>04/03/2017</u> DATE

SHEET INDEX

LANDSCAPE LAYOUT PLAN

L-2 GRADING PLAN

PLANTING PLAN L-3

L-4 **IRRIGATION PLAN**

L-5 LANDSCAPE DETAILS

LANDSCAPE DETAILS L-6

IRRIGATION DETAILS

T-1 TREE PRESERVATION PLAN

В



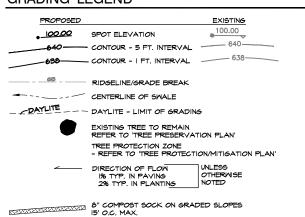
PLAN E LAYOUT hang Residel B Parkside Drive vard, California LANDSCAPE
Conan Zhai



rawn by:

ate: 04/03/20

GRADING LEGEND



DRAINLINE: 4" SOLID DRAIN LINE UNLESS
OTHERWISE NOTED. MINIMUM SLOPE 0.5% ___PDL __ DRAINLINE: 4" PERFORATED DRAIN LINE, MINIMUM SLOPE 0.5%

AREA DRAIN. 'NDS' SPEE-D-BASIN' W 9" SQ. GRATE. BLACK #970, CONNECT TO 4" DRAINLINE

ABBREVIATIONS

AREA DRAIN BOTTOM OF CURE BOTTOM OF STAIR

GRADE BREAK

GRADING NOTES:

- I. CONTRACTOR SHALL INSTALL CATCH BASINS AND/OR AREA DRAINS IN ALL LOW SPOTS, TYPICAL.

 2. CATCH BASINS, REFER TO 'GRADING & DRAINAGE PLAN' PREPARED BY CIVIL ENGINEER FOR GRATES, INVERTS AND DRAIN PIPE ELEVATIONS, TYPICAL.

 3. DRAINLINES: 4" SOLID DRAIN LINE INLESS OTHERNISE NOTED MINIMUM SLOPE 0.5%

 4. PERFORATED DRAINLINES: LOCATE PERFORATED DRAINLINES BEHIND ALL RETAINING WALLS, TYP, 4" PERFORATED SOLID PIPE (NO FLEX), MINIMUM SLOPE 0.5%, DAYLIGHT AT BIOSMALES.

SLOPE STABILIZATION NOTES:

- 2. ALL SLOPES 3:I AND STEEPER SHALL RECEIVE 'EROSION CONTROL COMPOST BLANKET' AND 'COMPOST SOCKS' AS FOLLOWS:

EROSION CONTROL COMPOST BLANKET

SEQUENCE	ITEM	MAT	APPLICATION BATE	
SEQUENCE	I LEWI	DESCRIPTION	TYPE	APPLICATION RATE
STEP I	ORGANIC COMPOST	ORGANIC COMPOST	MEDIUM SIZE	400 CY/ACRE
STEP 3	HYDROMULCH	ORGANIC FIBER	MOOD	1,500 LB/ACRE
STEP 4	HIDROMULCH	TACKIFIER	GUAR (PLANT BASED)	125 LB/ACRE

COMPOST SOCK

COMPOST SOCK	MESH TUBE - 8" DIA, BURLAP. PLACE PARALLEL WITH CONTOURS AT 15 FT INTERVALS, STAKE IN PLACE AT 6 FT. O.C.
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GRADING AND DRAINAGE NOTES

- REFER TO SITE IMPROVEMENT PLANS FOR ROUGH GRADING, DRAINAGE, FINISH FLOOR ELEVATIONS AND RETAINING WALL INFORMATION.
- 2. CONTRACTOR SHALL VERIFY EXISTING GRADES PRIOR TO START OF CONSTRUCTION.
- 3. EXISTING GRADES, SWALES, DRAINS AND DRAINLINES SHALL BE MAINTAINED. CHANGES TO EXISTING GRADES THAT OBSTRUCT EXISTING SWALES AND POSITIVE DRAINAGE SHALL BE ADJUSTED IN THE FIELD WITH ADDITIONAL DRAINS AND SWALES TO ENSURE POSITIVE DRAINAGE TOWARDS STREET AND STORM DRAIN SYSTEM AND AWAY FROM BUILDING AND ADJACENT PROPERTIES.
- 4. LOW SPOTS AND POCKETS SHALL BE GRADED TO DRAIN PROPERLY. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM EXISTING/PROPOSED BUILDINGS, STRUCTURES, WALLS AND ADJACENT PROPERTY LINES.
- CROSS SLOPES FOR SIDEWALK ADJACENT TO STREET SHALL NOT EXCEED 2%.
- LOCATE DRAING IN ALL LOW SPOTS AND TIE INTO STORM DRAIN SYSTEM. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE, STANDING WATER WILL NOT BE ACCEPTED AT THE COMPLETION OF WORK.
- FINISH GRADE OF PLANTING AREAS SHALL BE ONE INCH BELOW TOP OF ADJACENT CURB AND/OR PAYEMENT FOR TURF AREAS AND I-I/2 INCH BELOW TOP OF ADJACENT CURB OR PAYEMENT FOR SHRUB AND GROUNDCOVER AREAS.
- ALL PROPOSED GRADES ARE TO MEET AND BLEND WITH EXISTING GRADING AT PROJECT LIMIT AND EXISTING CURBS/SIDEWALKS.
- 9. TRANSITIONS BETWEEN SLOPES AND RELATIVELY FLAT AREAS SHALL BE ROUNDED AND GRADUAL.
- IO. CONTRACTOR SHALL BE RESPONSIBLE FOR "ROUNDING-OFF" ALL SHARR RIDGES EXISTING ON SITE WEATHER OR NOT SUCH CONDITIONS ARE INDICATED ON THE PLANS.
- II. ALL HORIZONTAL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
- 12. ALL CONSTRUCTION TO BE PLUMB AND TRUE.

GRADING PLAN Conan Zhang Residence 26446 Parkside Drive Hayward, California

<



rawn by:

Date: 04/03/201

- ALL PLANT MATERIAL/CONTAINER SIZES SHALL COMPLY WITH THE APPLICABLE PROVISIONS SET FORTH BY THE "AMERICAN STANDARD FOR NURSERY STOCK-ANSI (260.1-2004)", 2004 EDITION, AMERICAN ASSOCIATION OF NURSERYMEN (DOCUMENT AVAILABLE ON THE
- 3. CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES PRIOR TO INSTALLATION, PLANT MATERIAL QUANTITIES ARE LISTED FOR THE CONVENIENCE OF THE CONVENIENCE OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED IN
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL GRADING +/- .01 AND SURFACE DRAINAGE OF ALL PLANTING AREAS. NO LOW SPOTS WHICH HOLD STANDING WATER WILL BE ACCEPTED.
- AFTER INSTALLATION OF THE IRRIGATION SYSTEM AND HEADERS, ALL PLANTING AREAS SHALL BE RAKED SMOOTHLY AND ALL ROCKS AND PEBBLES OVER 2" IN DIAMETER REMOVED FROM
- C. <u>SOIL TESTS</u>: PRIOR TO LANDSCAPE INSTALLATION THE CONTRACTOR SHALL CONDUCT HORTICULTURAL SOIL TESTS AFTER ROUGH GRADING HAS BEEN COMPLETED. TWO SAMPLES TOTAL SHALL BE SENT TO LAB;
- 101 AL SHALL BE SENT 10 LAB;
 1) ONE FROM THE THE SLOPE
 11) ONE FROM THE GRADED PAD.
 TAKE AT LEAST 5 TO 10 SUB-SAMPLES OF EQUAL SIZE
 RANDOMLY FROM EACH SAMPLE AREA AT 6' TO 10' DEPTHS.
 THOROUGHLY MIX EACH SAMPLE GROUP SEPARATELY AND
 SUBMIT TO A REPUTABLE SOILS LABORATORY FOR
 HORTICULTURAL TESTING.
- D. THE FINAL SOIL AMENDMENT SHALL BE PER THE RECOMMEDIATIONS FROM THE SOIL LAB AND SHALL BE EVENLY SPREAD AND THOROUSHLY BLENDED BY OROSS-RIPPING OR EQUALLY CULTIVATED BY MEANS OF ROTOTILLING TO A UNIFORM
- E. BACKFILL FOR ALL CONTAINER PLANTS: EACKFILL MIX PER THE HORTICULTURAL SOILS REPORT RECOMMENDATIONS.
- F. <u>SOIL AMENDMENT FOR BID PURPOSES ONLY</u>; THE CONTRACTOR SHALL SURFACE AMEND TURE AREAS, GROUNDCOVER AND SHRUB AREAS, THE CONTRACTOR SHALL SPREAD 5 CUBIC YARDS OF NITRIFIED SOIL CONDITIONER (I-O-O) AND 20 LBS, OF A COMMERCIAL FERTILIZER (II-O-4) PER 1000 SQUARE FEET OF LANDSCAPE PLANTINS TO ALL PLANTINS AREAS, AND ROTOTILL THOROUGHLY INTO THE TOP 6" OF SOIL.
- 6. INSTALL AGRIFORM FERTILIZER 2I GRAM TABLETS (20-10-5) OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS AT THE RATES AS FOLLOWS: I GALLON 2 TABLETS 5 GALLON 3 TABLETS 15 GALLON 5 TABLETS

24" BOX + $\,$ I PER 4" OF BOX SIZE (I.E. 24" BOX-6 TABLETS) REFER TO PLANTING DETAILS FOR ADDITIONAL INFORMATION.

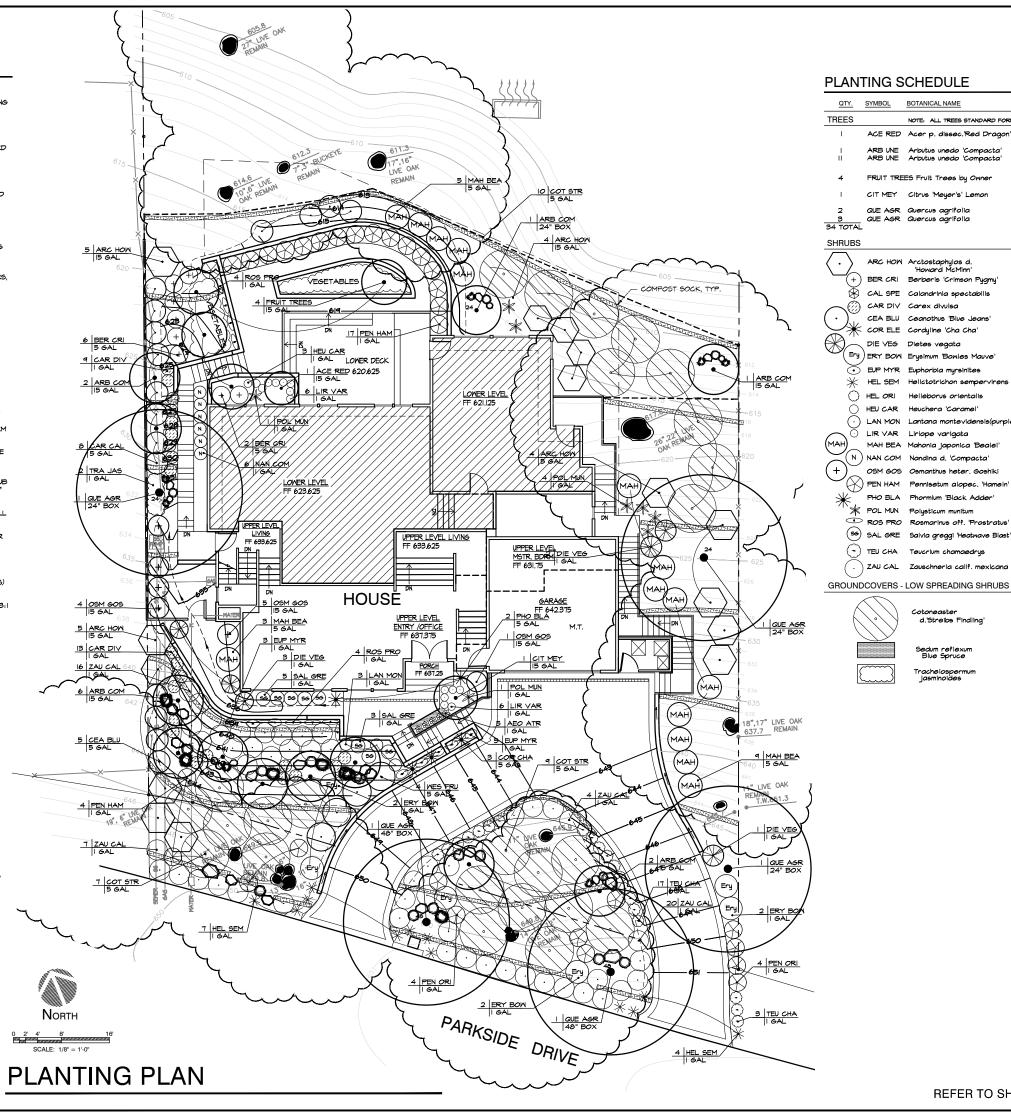
- . MULCH (LESS THAN 3:1 SLOPES): ALL PLANTING AREAS LESS THAN 3:1 SLOPE SHALL RECEIVE A 3" LAYER OF ORGANIC RECYCLED CHIPPED WOOD, COLOR; DARK BROWN AFTER ALL TREES, SHRIPS AND GROUNDCOVERS HAVE BEEN PLANTED AND AFTER PRE EMERGENT HAS BEEN APPLIED. NO MULCH SHALL BE PLACE WITHIN A 3" CLEAR BAND AROUND TRUNK OF ALL TREES.
- 6. MULCH (3:1 SLOPES AND STEEPER):
- A. ALL PLANTING AREAS 3:1 AND STEEPER SHALL RECEIVE COMPOST TO A DEPTH OF 3 INCHES AND SHALL BE EVENLY APPLIED BY USING A PNEUMATIC BLOWER, COLOR, DARK BROWN.

 B. PRIOR TO APPLICATION PREPARE SLOPE BY REMOVING LOOSE ROCKS, ROOTS, STUMPS AND OTHER DEBRIS GREATER THAN 2" DIAMETER AND SCARIFY AREA TO RECEIVE MULCH.

 C. HYDROMULCH COMPOST WITH WOOD FIBER AND TACKIFIER. REFER TO TEROSION CONTROL COMPOST BLANKET SCHEDULE ON SHEET L-2.

- COMPOST SOCKS: 8" DIAMETER COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO CONTOURS ACROSS ALL SLOPES AT IS FT. ON CENTER SPACING, AND AT TOP AND BOTTOM OF SLOPE. STAKE IN PLACE AT 5 FT. ON CENTER. INSTALL AFTER COMPOST AND HYDROMULCH HAS BEEN APPLIED
- PRE-EMERGENT, PRE-EMERGENT SPRAY SHALL BE APPLIED TO ALL PLANTING AREAS AFTER PLANTING AND PER MANUFACTURER'S RECOMMENDATIONS. THE LANDSCAPE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE USE OF CHEMICAL PRODUCTS AND IS TO SUPPLY THE OWNER WITH A WRITTEN RECORD OF THE TYPE OF CHEMICAL USED, DATE APPLIED AND RATE OF APPLICATION.
- . PLANT TREES A MINIMUM OF 3'-O" FROM THE EDGE OF CURBS AND WALKS, MINIMUM OF 5'-O" FROM INDERSGROUND UTILITIES, AND A MINIMUM OF 12'-O" FROM STREET LIGHTS. ALL TREES PLANTED MITHIN 5'-O" OF HARDSCAPE OR BUILT ELEMENT SHALL BE PLANTED WITH ROOT BARRIERS, REFER TO TREE PLANTING DETAIL.
- B. CONTRACTOR TO COORDINATE TREE PLANTING WITH DRAINLINES AND UNDERGROUND UTILITY LOCATIONS TO AVOID CONFLICT.

GUARANTEE: ALL PLANTS AND PLANTINGS SHALL BE GUARANTEED TO BE HEALTHY, THINVING CONDITION UNTIL THE END OF THE MAINTENANCE PERIOD. ALL PLANTS SHALL BE GUARANTEED FOR ONE (I) YEAR FROM THE DATE OF ACCEPTANCE.



PLANTING SCHEDULE

SUNSET PLANTING ZONE 15

В

PLAN Residentide Drive

PLANTING Conan Zhang F 26446 Parkside Hayward, Cali

QIY.	SYMBOL	BOTANICAL NAME	COMMON NAME	PLANTING		VULCOLS
TREES		NOTE: ALL TREES STANDARD FORM I	INLESS OTHERWISE NOTED ON PLA	SIZE N	MATURITY H x W	WATER USAGE
T.	ACE RED	Acer p. dissec.'Red Dragon'	Red Dragon Jap. Maple	15 GAL	6' × 6'	М
II	ARB UNE ARB UNE	Arbutus unedo 'Compacta' Arbutus unedo 'Compacta'	Dwarf Strawberry Tree Dwarf Strawberry Tree	24" BOX 15 GAL	10' x 8'	L
4	FRUIT TRE	ES Fruit Trees by Owner	Pomogranate, Plum	15 GAL	VARIES	м
1	CIT MEY	Citrus 'Meyer's' Lemon	Myer's Lemon Tree	15 GAL	10' x 8'	м
2 3 34 TOTAL		Quercus agrifolia Quercus agrifolia	Coast Live Oak Coast Live Oak	48" BOX 24" BOX	40' x 30	' L

SHRUBS						4	XPOSU.
$\overline{\langle \cdot \rangle}$	ARC HOW	Arctostaphylos d. 'Howard McMinn'	McMinn Manzanita 5	\$15 GAL	6' × 8'	L	Ç.
(+)	BER CRI	Berberis 'Crimson Pygmy'	Dwarf Berberis	5 GAL	2' x 2.5"	L	Ċ.
՛՛	CAL SPE	Calandrinia spectabilis	Rock pursiane	I GAL	l' x 2.5'	L	Q
	CAR DIV	Carex divulsa	Berkeley Sedge	I GAL	l' x 2'	L	
$(\cdot)_{\cup}$	CEA BLU	Ceanothus 'Blue Jeans'	Hollyleaf Mountain Lilac	5 GAL	5' x 5'	L	Ç.
*	COR ELE	Cordyline 'Cha Cha'	Cha Cha Cordyline	5 GAL	3' x 3'	L	Ç
(*)	DIE VEG	Dietes vegata	Fornight Lily	I GAL	3' x 2'	L	Q.
(Ery)	ERY BOW	Erysimum 'Bowles Mauve'	Bonles Mauve WallFlower	I GAL	3' × 4'	L	0
$\overline{\odot}$	EUP MYR	Euphorbia myrsinites	Trailing Euphorbia	I GAL	l' X 2'	L	O
*	HEL SEM	Helictotrichon sempervirens	Blue Oat Grass	I GAL	2' × 2'	L	C)
	HEL ORI	Helleborus orientalis	Lenten Rose	I GAL	l' × 2'	L	
0	HEU CAR	Heuchera 'Caramel'	Caramel Coral Bells	I GAL	l' × 2'	L	
\odot	LAN MON	Lantana montevidensis(purple)	Purple Trailing Lantana	I GAL	l' × 3'	L	Ø.
\bigcirc \circ	LIR VAR	Liriope varigata	Varigated Liriope	I GAL	$l' \times l'$	L	
(MAH)	MAH BEA	Mahonia japonica 'Bealei'	Leatherleaf Mahonia	5 GAL	7' × 4'	L	Q
(N)	NAN COM	Nandina d. 'Compacta'	Heavenly Bamboo	5 GAL	3' x 2'	L	Q
(+)	05M 60S	Osmanthus heter. Goshiki	Goshiki Varigated Osmanth	us 15 GAL	6' × 4'	L	Q
	PEN HAM	Pennisetum alopec. 'Hamein'	Hameln Fountain Grass	I GAL	3' x 3'	L	Q
*	PHO BLA	Phormium 'Black Adder'	Black Adder Phormium	5 GAL	4' × 3'	L	Q
″*	POL MUN	Polysticum munitum	Sword Fern	I GAL	2' × 2'	L	
0	ROS PRO	Rosmarinus off. 'Prostratus'	Rosemary	I GAL	2' x 3'	L	Ø
(56)	SAL GRE	Salvia greggi 'Heatwave Blast'	Salmon Pink Autumn Sage	I GAL	2.5' x 2.5'	' L	O
<u> </u>	TEU CHA	Teucrium chamaedrys	Germander	I GAL	I x 2'	L	Ф
(\cdot)	ZAU CAL	Zauschneria calif. mexicana	California Fuchsia	I GAL	l' × 4'	L	Ç

I GAL 6" HT. 8' O.C. d.'Streibs Findling' I GAL I' x 2' L 🕏 Blue Sedum 12" HT. 3' O.C. L 🔾 I GAL

LEGEND

Tree Multi Trunk 0.0. On Center ÷ SUN / SHADE

SHADE

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rawn by: ate: 04/03/20

REFER TO SHEET T-1 'TREE PRESERVATION PLAN'

LOWER DECK

620.625

EXTERIOR MOUNT SOLAR SENSOR SENSOR MUST BE LOCATED AT TOP EDGE OF ROOF EAVE WHERE IT WILL RECEIVE UNDSTRUCTED RAINFALL AND UNOBSTRUCTED RAINFALL AND UNOBSTRUCTED SOLAR RADIATION. FIELD DETERMINE THE BEST LOCATION FOR THE BEST POSSIBLE PERFORMANCE, TYPICAL.

HOUSE

LAUNDRY TO 6 LANDSCAPE L-6

634

P.O.C. CONNECT IRRIG MAIN LINE TO DOMESTIC WATER SERVICE LINE W. U.P.C. APPROVED FITTINGS. IRRIGATION DEMAND: 8 GPM & 50 PSI. FIELD VERIFUE PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE, CONTACT ARCHIFOR DIRECTION AND/OR REVISION.

North

IRRIGATION PLAN

HYDROZONE KEY

SYMBOL	ZONE DESCRIPTION	WATER USE	AREA
	ZONE 'C I ' - SHRUBS ELEVATION 637' TO 652'	LOW	2,227 SF
	ZONE 'C2' - 11 TREES ELEVATION 619' TO 622'	LOW	220 SF
	ZONE 'C3' - SHRUBS ELEVATION 622' TO 637'	LOW	975 SF
	ZONE 'C4' - SHRUBS ELEVATION 6 9' TO 622'	MODERATE	300 SF
	ZONE 'C5' - SHRUBS ELEVATION 6 I O' TO 622'	LOW	1,330 SF
	ZONE 'CG' - 5 TREES ELEVATION 6 8' TO 622'	LOW	100 SF
⊕	ZONE 'C7' - 6 TREES ELEVATION 613' TO 637'	MODERAT	E 120 SF

TOTAL IRRIGATED LANDSCAPE AREAS 5,331 SF NOTE: WATER USE DESIGNATION FOR PLANTS BASED ON DATA PROVIDED IN WUCOL'S LIST.

DRIP LATERAL LINE PIPE SIZING CHART

	.
NUMBER OF 6-OUTLET EMITTERS	PVC FLEXIBLE HOSE SIZE
I - 30	1,"
31 - 60	3," /4
61 - 110	1"

City of Hayward - Water Efficient Landscape Worksheet

PART 1 - Maximum Applied Water Allowance (MAWA)

57,883 Gal/Year

= Eto x 0.62 x [ETAF x LA] = 44.2 x 0.62 x [ETAF x LA] 27.404 x [ETAF x LA]

WU I/Yr) 795 927 537 1,624

5,331

TOTAL

C-5

IRRIGATION CONTROLLER
MALL MOUNT IN GARAGE AS
DIRECTED BY OWNER, SERVICE
MITH 120 YOLT A.C. ELECTRICAL
ELECTRICAL STUB-OUT TO THIS
LOCATION SHALL BE PROVIDED

UNDER ELECTRICAL CONTRACT

—1−2"SL.

1-4"SL.

PARKSIDE DRIVE

R

SYMBOL	MODEL NUMBER	DESCRIPTION
•	PCG I	SALCO PRESSURE COMPENSATING MULTI-OUTLET EMITTER TWO EMITTERS AT \$ 5 GAL. SHRUBS, THREE AT 5 GAL., TYP. (GPH EA. OUTLET = G GPH)
•	RZWS-36-25-CV	HUNTER ROOT ZONE BUBBLER ASSEMBLY & CHECK VALVE, 0.25 GPM (ONE PER TREE)
	PCB-25	HUNTER BUBBLER, O.25 GPM (ONE TREE)
0	I" COMPACT	AMIAD FILTER WITH 155 MESH SCREEN
A	SEE DETAIL	EMITTER FLUSH VALVE ASSEMBLY
•	ICV-FS-AS-ADJ SERIES	HUNTER FILTER SENTRY ADJUSTABLE PRESSURE REGULATING REMOTE CONTROL VALVE
⊕	I" MANUAL DIVERTER	I" MANUAL DIVERTER VALVE FOR LAUNDRY TO LANDSCAPE VALVES 'C-4' AND 'C-5' ONLY, LOCATE DOWNSTREAM FROM VALVE
×	975XL2-1"	WILKINS REDUCED PRESSURE BACKFLOW ASSEMBLY (LEAD FREE)
H	T-113	NIBCO GATE VALVE (LINE SIZE)
©	PCC-900I	9-STATION HUNTER PCC CONTROLLER (INTERIOR WALL MOUNT)
R	WSS	HUNTER WIRELESS SOLAR SYNC SENSOR \$ SOLAR SYNC MODULE
		CONTROLLER \$ STATION NUMBER APPROXIMATE FLOW (GPM) REMOTE CONTROL VALVE SIZE
		MAIN LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCH 40 PVC SOLVENT-WELD FITTINGS. 18" COVER.
		LATERAL LINE: 1 20-SCHEDULE 40 PVC PLASTIC PIPE WITH SCH 40 PVC SOLVENT-WELD FITTINGS, 2" COVER.
		DRIP LINE: $\frac{1}{4}$ " SALCO ALGEA RESISTENT FLEXIBLE PVC DRIP HOSE. 4" COVER.
===		SLEEVING: 1 20-SCHEDULE 40 PVC PLASTIC PIPE, 8" COVER, 24" UNDER VEHICULAR PAVING

Project Address: 26472 Parkside Drive, Hayward, California Prepared by: Mary Weber Landscape Architect, CLA# 2875 Address: 1831 Ardith Drive, Pleasant Hill, CA 94523

Total Irrigated Landscape Area

= (ETo) (0.62) [(0.7) (LA)] MAWA

= (44.2) (0.62) [(0.7) (3,500)]

TOTAL = 102,264 Gal/Year = Maximum Applied Water Allowand

PART TWO - Estimated Total Water Use (ETWU)

Landscape Zones	Plant Factor (PF)	Irrig. Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (LA) sq. ft.	ETAF x LA	ELW (Gal/Y
A, C & D-SHRUBS Low	0.3	Drip	0.81	0.37	4,709	1,744	47,79
B - SHRUBS Moderate	0.6	Drip	0.81	0.74	292	216	5,92
E & G - TREES Low	0.3	Bubbler	0.81	0.37	250	93	2,53
F - TREES	0.6	Bubbler	0.01	0.74	90	50	1.62

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION					
•	PC61	SALCO PRESSURE COMPENSATING MULTI-OUTLET EMITTER TWO EMITTERS AT 1 \$ 5 GAL. SHRUBS, THREE AT 15 GAL., TYP. (1 GPH EA. OUTLET = 6 GPH)					
•	RZW5-36-25-CV	HUNTER ROOT ZONE BUBBLER ASSEMBLY & CHECK VALVE, 0.25 GPM (ONE PER TREE)					
	PCB-25	HUNTER BUBBLER, O.25 GPM (ONE TREE)					
0	I" COMPACT	AMIAD FILTER WITH 155 MESH SCREEN					
A	SEE DETAIL	EMITTER FLUSH VALVE ASSEMBLY					
•	ICV-FS-AS-ADJ SERIES	HUNTER FILTER SENTRY ADJUSTABLE PRESSURE REGULATING REMOTE CONTROL VALVE					
Ф	I " MANUAL DIVERTER	I" MANUAL DIVERTER VALVE FOR LAUNDRY TO LANDSCAPE VALVES 'C-4' AND 'C-5' ONLY, LOCATE DOWNSTREAM FROM VALVE					
×	975XL2-1"	WILKINS REDUCED PRESSURE BACKFLOW ASSEMBLY (LEAD FREE)					
H	T-113	NIBCO GATE VALVE (LINE SIZE)					
©	PCC-900I	9-STATION HUNTER PCC CONTROLLER (INTERIOR WALL MOUNT)					
R	W55	HUNTER WIRELESS SOLAR SYNC SENSOR \$ SOLAR SYNC MODULE					
		- CONTROLLER \$ STATION NUMBER - APPROXIMATE FLOW (GPM) - REMOTE CONTROL VALVE SIZE					
		MAIN LINE: 1 I 20-5CHEDULE 40 PVC PLASTIC PIPE WITH SCH 40 PVC SOLVENT-WELD FITTINGS. 18" COVER.					
		LATERAL LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCH 40 PVC SOLVENT-WELD FITTINGS. 12" COVER.					
		DRIP LINE: $rac{N}{2}$ " SALCO ALGEA RESISTENT FLEXIBLE PVC DRIP HOSE. 4" COVER.					
===		SLEEVING: 1 20-SCHEDULE 40 PVC PLASTIC PIPE, 8" COVER, 24" UNDER VEHICULAR PAVING					

REFER TO SHEET T-1 'TREE PRESERVATION PLAN' REFER TO SHEET L-6 FOR IRRIGATION NOTES / DETAILS

NOTES:

I. UNSIZED LATER LINE PIPE DOWN STREAM FROM SIZED PIPE IS TO BE 3/4" IN SIZE.

2. DRIP EMITTER LOCATIONS 4 QUANTITIES ARE APPROXIMATE. ACTUAL LOCATIONS AND QUANTITIES SHALL BE FIELD DETERMINED TO CONFORM MITH FINAL PLANTING.

REVISIONS BY

WEBER

MARY

IRRIGATION PLAN Conan Zhang Residence 26446 Parkside Drive Hayward, California

5,331 Sq. Ft.

102,264 Gal/Year

57,883

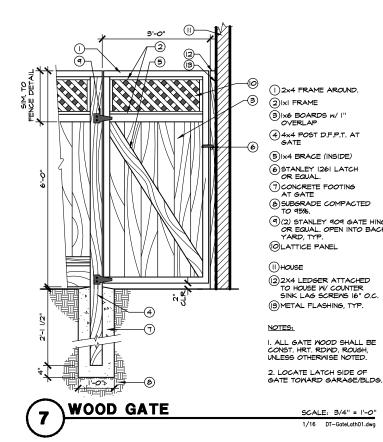
2,171

rawn by:

ate: 04/03/201

NOTES:
1. CONCRETE & SUB-BASE SIZE AND
REINFORCING SHOWN FOR BID PURPOSES
ONLY. REFER TO GEOTECH ENGINEER'S

WITH CONCRETE BANDS



(5) (3) (4)

-2

-4

-(5)

-6

-(3)

7

B

SECTION

8

<u>1</u>⊚ (II)

(S)

PRIVACY FENCE

ELEVATION

PLAN VIEW

3 TOOL EDGES AT CONC. BAND

SEE SHT. L-I FOR SPECS.
VERIFY EXACT DIM. OF
PAVERS PRIOR TO INSTALLING

(4) SOMM MODULAR PAVERS

6) FOUR #3 REBAR, CONT.

7 CLASS 2 AGGREGATE BASE COMPACTED TO 90%, DEPTH TO BE VERIFIED WITH SOILS

CONC. BAND

(5)1" SAND BED

DRIVEWAY-MODULAR PAVERS SCALE: |" = |'-0|"

/2

\-@\<u>-</u>®

SOLID WOOD WITH LATTICE TOP DT-FenLathO1.dwg

NOTES:

I. POSTS & KICKBOARDS: 'BROWN TONE'
PRESSURE TREATED DOUG-FIR / HEMLOCK.
2. CAP. RAILS, BOARDS, NAILERS & CLEATS:
CONST. COMMON REDWOOD.

3. CONTRACTOR SHALL USE HOT-DIPPED ROUGH EDGED GALY, NAILS.

√3 (4)

(1) 2X4 CAP

(2) LATTICE PANEL

(4) 2x4 MID-RAIL

6 1"x8"x4" FENCE

(7) 2x4 BOTTOM RAIL

(8) 2×8 KICKBOARD

(I) CONC. FOOTING; IN-LINE POSTS; IO"DIA. × 24"D, CORNER / END POSTS; IO"DIA. × 30"D.

② SLOPE TOP OF CONC. FTG. AWAY FROM POST

(3) COMPACTED SUBGRADE

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

(9) IX2 CLEATS AT KICKBOARD

(O) FINISH GRADE

3 IXI NAILER, FRAME ALL SIDES

5 4x4 POST AT 8' O.C.

(I)

1)2x4 FRAME AROUND. (2)IXI FRAME 3 IX6 BOARDS W/ I" 4)4x4 POST D.F.P.T. AT (5)1x4 BRACE (INSIDE) 6)STANLEY 1261 LATCH OR EQUAL. OCONCRETE FOOTING 8 SUBGRADE COMPACTED TO 95%. (9)(2) STANLEY 909 GATE HINGE OR EQUAL. OPEN INTO BACK YARD, TYP. (O)LATTICE PANEL (12) 2X4 LEDGER ATTACHED TO HOUSE W/ COUNTER SINK LAG SCREWS 16" O.C.

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

() 'A' AND 'B' CAP UNITS OPTIONAL, TYP. (3) ADHER CAPS TO WALL USING VERSA-LOK CONC. ADHESIVE (b)-(4) STANDARD VERSA-LOK WALL UNIT, 6"x12", TYP. COLOR & FINISH TO BE SELECTED BY OWNER. (5) LOCK WALL UNITS TOGETHER WITH PINS, TYP. 6 SPLIT OFF BACK 2" OF ALL UNITS ABOVE GRADE TO MAKE SPLIT FACE ON BOTH SIDES. (7) FINISH GRADE BEHIND WALL (8) CENTER LINE OF SMALE AT BACK OF WALL, TYP. (9) 3" PERFORATED DRAIN LINE (HOLES UP). SLOPE AT .5% MIN. 1% TYP. FILTER FABRIC OVERLAP AT TOP 8" MIN. _SLOPE 19 (II) DRAIN ROCK (II) DRAIN ROCK
(2) 3/4" AGG. BASE ROCK, LAY,
WET & COMPACT IN I" LAYERS
TO 45% COMPACTION, TOP I"
LAYER SIZE OPTION, 1/4"-1/2"
AGG. BASE ROCK
(3) 4" SOLID DRAINLINE ALLOW
END OF PERFORATED DRAIN
LINE, CUTLET THROUGH FACE OF
WALL 450" OC., INSTALL WITH
RODENT GUARD, FIELD CUT
WALL UNITS TO FIT.
(4) FINISH GRADE AT BOTTOM -(2) (4) FINISH GRADE AT BOTTOM OF WALL, 1/4" BASE ROCK (5) SUBGRADE COMPACTED TO SECTION

RETAINING WALL - PRECAST CONCRETE UNITS

1 5/8" O.D. GALV. TUBULAR STEEL. HANDRAIL POSTS 5'-0" O.C. MAX. 2 GROUT SLEEVE W NON-SHRINKING NON-STAINING GROUT

3 EXPANSION JOINT (4) CONC. WALK-SEE DETAIL

5

(5) CLASS II AGGREGATE BASE COMPACTED TO 95%. (6) CONCRETE STEPS-3,000 PSI P.C.C.

7 #3 NOSE BAR, CONT. W/ 1 1/2" CLEARANCE (8) 1/2" RADIUS

9 VISUALLY IMPAIRED STRIPING SHALL BE PAINTED WHITE, TYP. OF ALL TREADS.

(D DOMEL-#4 BAR ® 18 O.C.; WRAP ONE END WITH FELT

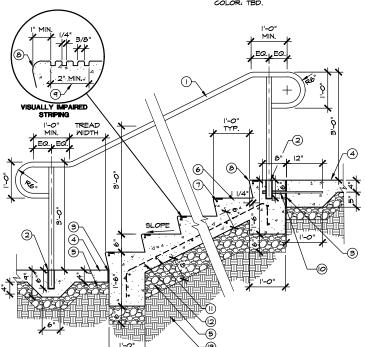
(II) #4 BAR ® 12" O.C.; TIE INTO CHEEKNALLS WHERE THEY OCCUR.

(2) #4 BARS AT 12" O.C. (B) SUBGRADE COMPACTED TO 90%

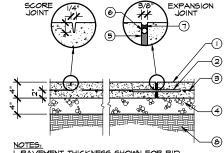
RAILING NOTES:

RAILINGS AVAILABLE AT 'KING ARCHITECTURAL METALS' www.kingmetals.com

2. HANDRAIL: MELD ALL JOINTS AND GRIND SMOOTH. LIGHTLY SAND TO ROUGH. PRIME METAL W ONE COAT RUST INHIBITOR PAINT AND 2 COATS ENAMEL. COLOR: TBD.



CONCRETE STEPS WITH HANDRAIL 6 SCALE: 3/4" = 1'-0



NOTES: I. PAVEMENT THICKNESS SHOWN FOR BID PURPOSES ONLY. REFER TO STRUCTURAL SOILS REPORT FOR ACTUAL. OCONCRETE PAVING; SEE PLAN OR SPECS FOR COLOR AND FINISH. 2)#4 REBAR; I'-6" LONG AT

2'-0"o.c./ WRAP ONE END WITH FELT

3)#3 REBAR @ 18" O.C. (4) CLASS II AGGREGATE BASE; COMPACTED TO 95%. (5) PREMOLDED EXPANSION MAT'L AT 16'-0"0.C. MAX./ SCORE JTS. AT 4'-0" O.C.

(6) FOAM BACKER ROD; DO NOT BOND TO SEALANT. (7) ELASTOMETRIC SEALANT.

(8) SUBGRADE COMPACTED TO 95%

CONCRETE PAVING

SCALE: |" = |'-0" 1/12 DT-PavConc02.dwg

MODULAR PAVING FIELD, SEE CONST. LEGEND.

2) MODULAR PAVING BANDS, SEE CONST. LEGEND

1

3 THIN-SET MORTAR BED AT CONC. CURB, TYP.

(4) SUBMERGED CONCRETE CURB AT ALL EDGES ADJACENT TO PLANTING AREAS.

5)#4 REBAR CONT.

6 TOP DRESS PAVERS W/ FINE GRAIN SAND, SWEEP INTO PAVER JOINTS.

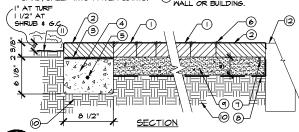
WET & COMPACT IN I" LAYERS TO 85% COMPACTION. COLOR: GRAY SUBGRADE COMPACTED TO 90% (I) FINISH GRADE/ADJACENT PLANTING

7) NO CONC. CURB AT EDGE OF PAVERS WHEN ADJACENT TO EXISTING PAVING OR WALLS, TYP.

(8) GEOTEXTILE, RETURN AT SIDES.

(q) DECOMPOSED GRANITE BASE. LAY,

(2) FINISH GRADE/ADJACENT PAVING, WALL OR BUILDING



PAVERS AT ENTRY WALK 2

PLAN

2

NOTE
OMIT HEADER WHEN ADJ. TO NOTE: SPLICE HEADER W/(2) 'EPIC' HARDSCAPE (PAVING, WALLS, 12"x13" 'EPIC' SLIP JOINT HAIRPING

() GRAVEL PAVING FINISH GRADE, 1/4" TO DUST QUARRY FINES DECOMPOSED GRANITE. LAY MET & COMPACT IN I" LAYERS TO 85% COMPACTION. COLOR-GRAY

(2)2x6 PLASTIC TREX HDR BD. (OR EQUAL); AT CURVES: (2) 1"x6" EPIC BENDA-BOARD (OR EQUAL)

4 FINISH GRADE OF ADJACENT PLANTING AREA.

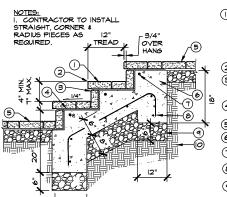
(5) SUBGRADE COMPACTED TO 90%

GRAVEL PAVING

SECTION

I" AT TURF, I I/2" AT SHRUB/G.C.\

SCALE: N.T.S. 1/1 DT-PavDG06.dwg



1 TREAD, 2 3/8" (60mm) THICKNESS, 12") TREAD, 2 3/8" (60mm) THICKNESS, 12" DEPTH, PRECAST CONCRETE PAVERS MANU PRODUCT: SEE LAYOUT PLAN COLOR: TO BE DETERMINED RADIUS STAIRS; INSTALL WEDGE SHAPED PAVERS FOR SNUG FIT

(2) NOSE RADIUS I 1/2" MAX. (3) RISERS- CONCRETE PAVERS ON END. ALL RISERS SHALL BE THE SAME HEIGHT WITHIN EACH SET OF STAIRS

(4) MASONRY ADHESIVE AT JOINTS AND BOTTOMS

(5) ADJACENT PAVING

(6) CONCRETE FOOTING FOR STAIRS #3 NOSE BAR, CONT. W/ 1 1/2" CLEARANCE

8 #4 BARS AT 12" O.C. BOTH WAYS

Q CLASS II AGGREGATE BASE COMPACTED TO 95%.

(O) SUBGRADE COMPACTED TO 90%

ENTRY STAIRS MODULAR PAVERS SCALE: 3/4" = 1'-0'

10

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DETAILS an Zhang Reside 26446 Parkside Drive Hayward, California

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cale: AS SHO rawn by:

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BUILDING, CURB, PAVEMENT EDGE OR BUILT ELEMENT

(2) GROUNDCOVER OR SHRUB

3 SPACING PER PLANT LEGEND

GROUNDCOVER / SHRUB SPACING LAYOUT

() MASHING MACHINE

3 DIVERTER VALVE HOUSE PLUMBING TO SEWER SYSTEM

(5) I" PVC SCH 40 TO OUTSIDE

7 AIR RELIEF VALVE

80 GALLON GRAYMATER

9 OVERFLOW TO SURFACE RUNOFF

FILTERED GRAYMATER OUT TO IRRIGATE VALVES SHOWN ON IRRIG. PLAN

6 HOUSE WALL

AIR VENT

(I)-

2

2 MASHER DRAIN HOSE

SCALE: N.T.S. 1/1 DT-GrndCov01.dwg

California Graywater Code Chapter 16 Nonpotable Water Reuse Systems

Systems that meet these standards do not require a permit or inspection:

Systems that these these sanioanus of not require a plentin or inspection.

1602.1.1 [PLO 1] Clothes Washer System. A clothes washer system in compliance with all of the following is exempt from the construction permit specified in Section 1.8.4.1 and may be installed or altered without a construction permit:

(1) If required, notification has been provided to the enforcing agency regarding the proposed location and installation of a gray water irrigation or disposal system.

(2) The design shall allow the user to direct the flow to the irrigation or disposal field or the building sewer. The direction control of the gray water shall be clearly labeled and readily accessible to the user.

(3) The installation, change, alteration, or repair of the system does not include a potable water connection or a pump and does not affect other building, plumbling, electrical, or mechanical component including structural features, egress, fire-life safety, sanitation, potable water supply piping, or accessibility.

accessibility.

Social in events, "grant be accessible to accessibility."

Social in the grant water shall not be considered part of the gray water system. [ART SOUGESTION: More clear: "Exception: washer pump"]

(4) The gray water shall be increased on the site where it is generated.

(5) Gray water shall be directed to and contained within an irrigation or disposal field.

(6) Ponding or runoff is prohibited and shall be considered a nuisance.

(7) Gray water may be released above the ground surface provided at least two (2) Inches (51 mm) of mulch, rock, or soil, or a soild shield covers the release point. Other methods which provide equivalent senaration are also acceptable.

(10) Gray water shall not contain hazardous chemicals derived from activities such as cleaning car parts, washing greasy or oily rags, or disposing of waste solutions from home photo labs or similar hobbyist or home occupational activities.

home occupational activities. (11) Exemplos from the construction permit requirements of this code shall not be deemed to grant authorization for any gray water system to be installed in a manner that violates other provisions of this code or any other laws or ordinances of the enforcing agency. (12) An operation and maintenance manual shall be provided to the owner. Directions shall indicate that the manual is to remain with the building throughout the life of the system and upon change of

ownership or occupancy.

(13) Gray water discharge from a clothes washer system through a standpipe shall be properly trapped in accordance with Section 1005.0.

In accordance with Section 1005.0.

PLAN SECTION

PLANTING ON SLOPE

(I) TWO 30"XI/2" DIA. GALV. PIPES, POUND INTO EXIST. SUBGRADE TO SUPPORT 2XI2.

SCALE:

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

1/24 DT-Laundry LS01.dwg

SHRUB- SEE PLAN FOR SIZE AND TYPE. 2 ROOTBALL - SET TOP OF ROOTBALL I" ABOVE FINISH GRADE 3 2" LAYER FIR BARK MULCH-EXCEPT IN LAWN AREAS. 4 MATERING BASIN- 3" MIN. EARTH BERM. (5) FINISH GRADE (9) FINISH GRADE

(B) BACKFILL MIX- 1/3 NITRIFIED

SOIL CONDITIONER, 2/3 SITE

SOIL.

(T) SHRUB PLANTING PITPERCOLATE TEST ALL PITS,

SCARIFY SIDES AND BOTTOM

PRIOR TO INSTALLING BACKFILL

MIX.

(B) SUBGRADE **(5)**

(2) ROOTBALL - SET TOP OF ROOTBALL I" ABOVE FINISH GRADE AT SLOPES LESS THAN 6:1, SET FLUSH WITH FINISH GRADE ON STEEPER SLOPES, TYP.

3 2" LAYER FIR BARK MULCH-EXCEPT IN LAWN AREAS.

(4) BACKFILL MIX- 1/3 NITRIFIED SOIL CONDITIONER, 2/3 SITE SOIL.

(20-10-5) 3 PER 5 GAL., 5 PER 15 GAL., 6 PER 24" BOX.

(0) 30"x2"x12" PTDF BOARD, ⊥ TO DIR. OF FLOW, INSTALL ONLY
TO 5 GAL. \$ LARGER PLANTS
ON SLOPES GREATER THAN 2:1,
TYP.

SCALE: N.T.S.

5 MATERING BASIN- 4" MIN. EARTH BERM.

6 SCARIFY PLANTING PIT 7)SUBGRADE

(9) EXISTING 2:1 SLOPE

AGRIFORM PLANT TABLETS 2X ROOTBALL (20-10-5) OR EQUAL: 2 PER 1 GAL., 3 PER 5 GAL.

2X ROOTBALL

SHRUB PLANTING SCALE: N.T.S.

LAUNDRY TO LANDSCAPE

HOUSE

6

LANDSCAPE

GRAVITY SYSTEM

IRRIGATION SCHEDULES

'DOWNHILL' SIDE

(5)_/

'UPHILL' SIDE

HYDROZONES 'A'	, 'C' an	d 'D'	- LO	N WA	TER US	E SHF	tUBS (k GRO	UNDCO	VER					
MULTI OUTLET DRIP IRRI	GATION @	SHRUB,	/GROUND	COVER A	REAS (LO	OW)									
SPRINKLER MANUFACTURER			SALCO		LOCATIO	N:		HAYWARD, CALIFORNIA							
PRECIPITATION RATE (INCHES)	/HOUR):		0.57		EMITTER	SPACING	:	VARIES							
IRRIGATION SYSTEM EFFICIENC					EMITTER	FLOW:		1 GPH	PER HEA	۱D					
PLANT FACTOR:		0.30													
YEAR 2 REDUCTION AMOUNT:	MONTH:		-10% O	F YEAR	1 (ESTAB	LISHMENT) RUN 1	TME MINU	TES						
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL		
ETO PER MONTH (INCHES): 1.40			1.80	3.10	4.20	5.40	5.90	6.40	5.70	4.40	3.10	1.50	1.20	44.20	
ETO PER WEEK (INCHES): 0.323			0.416	0.716	0.970	1.247	1.363	1.478	1.316	1.016	0.716	0.346	0.277		
APPLIED ETO PER WEEK (INCHES): 0.120			0.154	0.265	0.359	0.462	0.505	0.547	0.488	0.376	0.265	0.128	0.103		
MINUTES OF WATER	YEAR 1	13	16	28	38	49	53	58	51	40	28	14	11		
PER WEEK:	YEAR 2	11	15	25	34	44	48	52	46	36	25	12	10		
DAYS PER WEEK:	YEAR 1	1	1	1	2	2	2	2	2	2	2	1	1		
DATS PER WEEK:	YEAR 2	1	1	1	2	2	2	2	2	2	2	1	1		
MINUTES OF WATER	YEAR 1	13	16	28	19	24	27	29	26	20	14	14	11		
PER DAY:	YEAR 2	11	15	25	17	22	24	26	23	18	13	12	10		
	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1		
CYCLES PER DAY:	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1		
MINISTES DED OVOLE	YEAR 1	13	16	28	19	24	27	29	26	20	14	14	11		
MINUTES PER CYCLE:	YEAR 2	11	15	25	17	22	24	26	23	18	13	12	10		

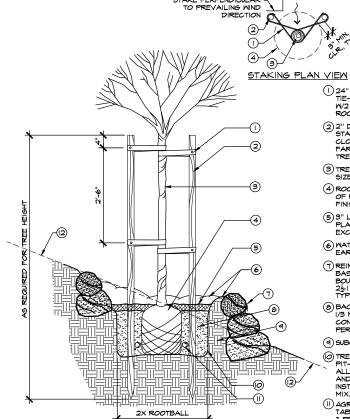
MULTI OUTLET DRIP IRRI	GATION @	SHRUB	GROUND	COVER A	REAS (M	ODERATE)							
SPRINKLER MANUFACTURER	PRINKLER MANUFACTURER					ALCO LOCATION: HAYWARD, CALIFORNIA								
PRECIPITATION RATE (INCHES,	RECIPITATION RATE (INCHES/HOUR):				EMITTER	EMITTER SPACING:								
IRRIGATION SYSTEM EFFICIENC	RRIGATION SYSTEM EFFICIENCY				0.81 EMITTER FLOW:			1 GPH	PER TUB	Ε				
PLANT FACTOR:		0.60	50											
EAR 2 REDUCTION AMOUNT:			-10% OF											
MONTH: JAN			FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	Z	TOTAL
ETO PER MONT	H (INCHES):	1.40	1.80	3.10	4.20	5.40	5.90	6.40	5.70	4.40	3.10	1.50	1.20	44.20
eto per wee	K (INCHES):	0.323	0.416	0.716	0.970	1.247	1.363	1.478	1.316	1.016	0.716	0.346	0.277	
APPLIED ETO PER WEE	APPLIED ETO PER WEEK (INCHES): 0.240			0.530	0.719	0.924	1.009	1.095	0.975	0.753	0.530	0.257	0.205	
MINUTES OF WATER	YEAR 1	25	32	56	76	97	106	115	103	79	56	27	22	
PER WEEK:	YEAR 2	23	29	50	68	88	96	104	92	71	50	24	19	
DAVE DED MEEK	YEAR 1	1	1	1	2	2	3	3	3	2	2	1	1	
DAYS PER WEEK:	YEAR 2	1	1	1	2	2	3	3	3	2	2	1	1	
MINUTES OF WATER	YEAR 1	25	32	56	38	49	35	38	34	40	28	27	22	
PER DAY:	YEAR 2	23	29	50	34	44	32	35	31	36	25	24	19	
OVOLES DED DAY	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
CYCLES PER DAY:	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
LUNUITED BED OVOLE	YEAR 1	25	32	56	38	49	35	38	34	40	28	27	22	
MINUTES PER CYCLE:	YEAR 2	23	29	50	34	44	32	35	31	36	25	24	19	

IRRIGATION SCHEDULE NOTES

THESE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED MEEKLY MATER REGUIREMENTS FOR ESTABLISHED PILANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVILOPED FROM LOCAL CURRENT AVERAGES FOR EXPAPOTRANSPIRATION, AND REFLIECT MAXIMM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING, ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT MATER REQUIREMENTS, ETC.

HYDROZONE 'E' & 'G' - BUBBLERS AT LOW WATER USE TREES BUBBLER IRRIGATION @ TREES SPRINKLER MANUFACTURER PRECIPITATION RATE (INCHES/HOUR): RRIGATION @ TREES HAYWARD, CALIFORNIA IRRIGATION SYSTEM EFFICIENCY PLANT FACTOR: YEAR 2 REDUCTION AMOUNT: HEAD GPM: ETO PER WEEK (INCHES): 0.323 | 0.416 | 0.716 | 0.970 | 1.247 | 1.363 | 1.478 | 1.316 | 1.016 | 0.716 | 0.346 | 0.277 | APPLIED ETO PER WEEK (INCHES): 0.120 0.154 0.265 0.359 0.462 0.505 0.547 0.488 0.376 0.265 0.128 0.103 MINUTES OF WATER PER WEEK: DAYS PER WEEK: MINUTES OF WATER PER DAY: CYCLES PER DAY:

HYDROZONE 'F'		DLENG	AT M	VVEN.	AIE W	AIEN	UOE I	NEEO						
BUBBLER IRRIGATION @	TREES													
SPRINKLER MANUFACTURER			HUNTER		LOCATIO	N:		HAYWAR	D, CALIF	DRNIA				
PRECIPITATION RATE (INCHES			1.50		HEAD SE	PACING:		VARIES						
IRRIGATION SYSTEM EFFICIEN	CY		0.81		HEAD G	PM:		2 X .25						
PLANT FACTOR:			0.60											
YEAR 2 REDUCTION AMOUNT:			-10% O) RUN T	IME MINU						
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTA
eto per mon	TH (INCHES):	1.40	1.80	3.10	4.20	5.40	5.90	6.40	5.70	4.40	3.10	1.50	1.20	44.20
eto per we	EK (INCHES):	0.323	0.416	0.716	0.970	1.247	1.363	1.478	1.316	1.016	0.716	0.346	0.277	
APPLIED ETO PER WE	EK (INCHES):	0.240	0.308	0.530	0.719	0.924	1.009	1.095	0.975	0.753	0.530	0.257	0.205	
MINUTES OF WATER	YEAR 1	10	12	21	29	37	40	44	39	30	21	10	8	
PER WEEK:	YEAR 2	9	11	19	26	33	36	39	35	27	19	9	7	
DAYS PER WEEK:	YEAR 1	1	1	1	1	1	2	2	2	2	1	1	1	
DATS PER WEEK:	YEAR 2	1	1	1	1	1	2	2	2	2	1	1	1	
MINUTES OF WATER	YEAR 1	10	12	21	29	37	20	22	20	15	21	10	8	
PER DAY:	YEAR 2	9	11	19	26	33	18	20	18	14	19	9	7	
	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
CYCLES PER DAY:	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 1	10	12	21	29	37	20	22	20	15	21	10	8	
MINUTES PER CYCLE:	YEAR 2	9	11	19	26	33	18	20	18	14	19	9	7	



124" CORDED RUBBER TIE-ATTACH TO STAKE W/2 GALVANIZED ROOFING NAILS 2 2" DIA. LODGE POLE PINE STAKE- INSTALL NO CLOSER THAN 4" NOR FARTHER THAN 16" FROM TREE TRUNK, 2 REQUIRED.

3 TREE- SEE PLAN FOR SIZE AND TYPE.

4 ROOT BALL - SET CROWN OF ROOT BALL I" ABOVE FINISHED GRADE

5 3" LAYER MULCH PER PLANTING NOTES/SPECS. EXCEPT IN LAWN AREAS

(6) WATERING BASIN-4" MIN. EARTH BERM.

TREINFORCE TREE PLANTING BASIN MITH HEAD SIZE BOULDERS, ON ALL 2½:1 & STEEPER SLOPES, TYP

(3) BACKFILL MIX-1/3 NITRIFIED SOIL CONDITIONER, 2/3 SITE SOIL PER PLANTING NOTES/SPECS.

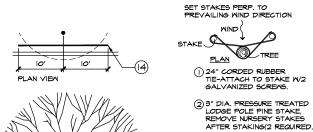
9 SUBGRADE

(in the planting pit-percolate test all pits, scarify sides and bottom prior to installing backfill mix.

(I) AGRIFORM PLANT TABLETS (20-10-5) 3 PER 5 GAL. 5 PER 15 GAL. 6 PER 24" BOX.

TREE & LARGE SHRUB PLANTING ON SLOPE

APPLIES TO ALL 15 GALLON CONTAINER PLANTS & LARGER



(3) TREE- SEE PLAN FOR SIZE AND TYPE. (4) ROOT BALL- SET CROWN OF ROOT BALL 2" ABOVE FINISHED GRADE

(5) 2" LAYER WOOD CHIPS MULCH-EXCEPT IN LAWN AREAS

(6) WATERING BASIN (4" MIN.) W/2"WOOD CHIPS MULCH

(7) SIDEWALK BACKFILL MIX-

1/3 NITRIFIED SOIL CONDITIONER, 2/3 SITE SOIL

(9) SUBGRADE

-(4)

–(5)

(i) TREE PLANTING PIT-PERCOLATE TEST ALL PITS, SCARIFY SIDES AND BOTTOM PRIOR TO INSTALLING BACKFILL MIX.

(I) AGRIFORM PLANT TABLETS (20-10-5) 3 PER 5 GAL. 5 PER 15 GAL. 6 PER 24" BOX.

(2) I"X3" CROSS BACE NAILED TO STAKES WGALVANIZED NAILS

(B) 4" × 30" PERF. PIPE FILLED w///2"-3/4" GRAVEL W/BUBBLER ON ONE SIDE

(4) DEEP ROOT BARRIER; LINEAR; MIN. 10' LONG FROM CENTER (20' TOT.)

STREET TREE PLANTING 2 City of Hayward

"BETWEEN TOP

SCALE: NTS

Date: 04/03/201

rawn by:

09/30/2018

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MARY WEBER LANDSCAF
ARCHITECT. ALL DRAWIN
AND WRITTEN MATERIAL
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REVISIONS

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Conan Zhang Residence 26446 Parkside Drive Hayward, California

DETAILS

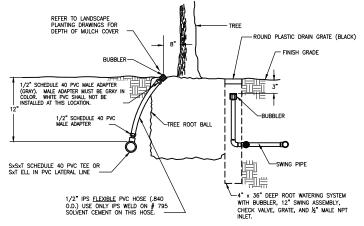
L-6

- 1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE. 2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FINISH GRADE IN TURF AREA.
- SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
- 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
- AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
- INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.



RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION: 16" X 25 1/2" (15" DEEP) - SCHEDULE 80 PVC THREADED TEE - 2 TOTAL WYE CONFIGURATION FILTER WITH 155 MESH MOLDED POLYESTER SCREEN AND FLUSH VALVE (ROTATE FILTER PARALLEL TO PEA GRAVEL) - SCHEDULE 80 PVC UNION - 2 RROMETER MODEL 7-100 OR APPROVED EQUA SCHEDULE 80 PVC THREADED (0-100 PSI) PRESSURE GAUGE - ROTATE TEE FOR EASE OR READING - 2 TOTAL. GAUGE INDICATES IRRIGATION SYSTEM PRESSURE. NIPPLES (TYPICAL) 1" IN SHRUB/GROUND COVER AREAS PVC MAIN LINE
(TYPICAL FOR BOTH
SIDES OF LINITY) Ø (TYPICAL FOR BOTH SIDES O FLOW_ BRICK - 1 EACH NOTE: HAND TIGHTEN THREADED PVC JOINTS USING PIPE JOINT COMPOUND PER SPECIFICATIONS (NO TEFLON TAPE)

FILTER ASSEMBLY



TREE BUBBLERS

EMITTER PLACEMENT

SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES, SEAL WIRE SPLICES WITH 3M-DBR/Y-6 SPLICE SEALING DEVICES OF SIZE COMPATIBLE WITH MIRE SIZE. LEAVE A 36" LONG, I" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES.

IRRIGATION NOTES

12. PLASTIC VALVE BOXES ARE TO BE BLACK IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS, MANUFACTURER SHALL BE CARSON INDUSTRIES.

EXISTING IRRIGATION CONTROLLER LOCATED IN PHASE ONE SHALL BE USE ALL NEW VALVES, IRRIGATION CONTRACTOR TO MAKE CONNECTION FROW ELECTRICAL STUB-OUTS PROVIDED AND ENSURE PROPER CONNECTIONS & GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS. IRRIGATION CONTROLLER TO HAVE ITS OWN INDEPENDENT 24 VOLT COMMON GROUND WIRE.

CONTRACTOR SHALL PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE IRRIGATION TO ALL PLANTING WITHIN THE ALLOWED WATERING WINDOW OF TIME AS REQUIRED. THE CONTRACTOR SHALL CREATE CONTROLLER PROGRAMING THAT WILL NOT EXCEED THE MAXIMM GALLONS PER MINUTE FLOW RATE STATED ON THE DRAWINGS, AND NOT EXCEED THE CAPACITY OF ANY MAIN LINE PIPING.

IRRIGATION CONTROL WIRES SHALL BE COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND, SIZE #14-1, COMMON GROUND MIRE SHALL HAVE WHITE INSULATING JACKET, CONTROL WIRE SHALL HAVE INSULATING JACKET OF COLOR OTHER THAN WHITE, SPLICE SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS.

IO. INSTALL SPARE CONTROL WIRE OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. MINIMUM OF ONE SPARE WIRE PER CONTROLLER.

- INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE MALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN ACCESSIBLE LOCATION WITH MINIMAL VISIBILITY FROM WALKS, STREET, DRIVEWAYS, DECKS AND PATIOS.
- 15. THE REMOTE CONTROL VALVE SPECIFIED ON THE DRAWINGS IS A PRESSURE REDUCING TYPE. SET THE DISCHARGE PRESSURE AS FOLLOWS: I. TREE BUBBLERS = 35 PSI 2. DRIP EMITTERS = 30 PSI
- 16. LOCATE DRIP EMITTER TUBES ON UP-HILL SIDE OF PLANT.
- 17. LOCATE BUBBLERS ON UP-HILL SIDE OF TREE.
- 18. INSTALL A VALCON 5000 SERIES SPRING LOADED CHECK VALVE BELOW THOSE SPRINKLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- 19. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; AND WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- 20. IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

- 21. PRESSURE TEST PROCEDURE. THE CONTRACTOR SHALL:

 A. NOTIFY ARCHITECT AT LEAST THREE (3) DAY IN ADVANCE OF TESTING.

 B. PERFORM TESTING AT HIS OWN EXPENSE.

 C. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT

 ARCHING OR SLIPPING WIDER PRESSURE. NO FITTING SHALL BE COVERED.

 D. APPLY THE FOLLOWING TESTS AFTER WELD PLASTIC PIPE JOINTS HAVE

 CURED AT LEAST 24 HOURS.
 - JRED AT LEAST 24 HOURS.

 TEST LIVE (CONSTANT PRESSURE) AND QUICK COUPLER LINE HYDROSTATICALLY AT 125 PSI. MINIMUM. LINES WILL BE APPROVED IF TEST PRESSURE IS MAINTAINED FOR SIX (6) HOURS. THE LINE WILL BE APPROVED OR NOT APPROVED AS SUCH RESULTS MAY INDICATE. THE CONTRACTOR SHALL MAKE TESTS AND REPAIRS AS NECESSARY UNTIL TEST CONDITIONS ARE MET.

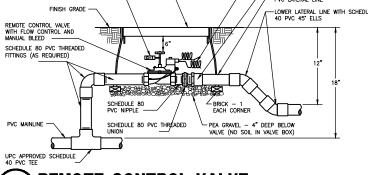
 TEST ROY CONTROLLED LATERAL LINES WITH MATER AT LINE PRESSURE AND VISUALLY INSPECT FOR LEAKS. RETEST AFTER CORRECTING DEFECTS.
- 22. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY MATER PRESSURE FRIOR TO CONSTRUCTION, REPORT ANY DIFFERENCE BETWEEN THE MATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 23. IRRIGATION DEMAND: 7 6PM AT 65 PSI STATIC PRESSURE AT IRRIGATION POINT OF CONNECTION. FIELD VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE CONTACT ARCHITECT FOR DIRECTION AND POSSIBLE REVISION.



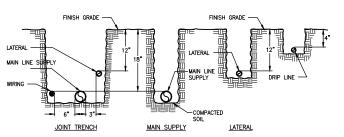
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- 3. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.

WEATHERPROOF SPLICE ASSEMBLY 9



REMOTE CONTROL VALVE 6 1/1 DT-IRRIG



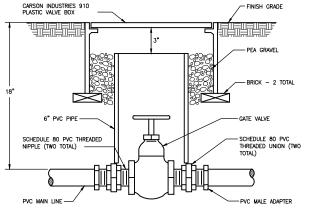
ALL PLASTIC PIPING SHALL BE INSTALLED IN THE TRENCH IN A SERPENTINE MANNER AS PER THE MANUFACTURER'S SPECIFICATIONS.

MANUFACTURER'S SPECIFICATIONS.

ALL SUPPLY LINES TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
TAPE AND BUDILE TUBING OR WIRING AT 10 FEET INTERVALS.

ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS,
CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS. CAREFULLY SELECT BACKFILL
THAT IS TO BE PLACED NEXT TO PLASTIC PIPE TO AVOID ANY SHARP OBJECTS WHICH MAY DAMATHE PIPE.

TRENCHING DETAIL 10



GATE VALVE



INSTRUCTIONS 2. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE. 5. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS. 6. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

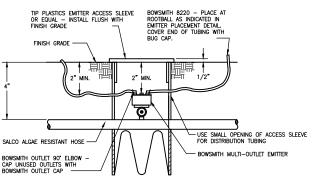
-VALVE CONTROL WIRE - PROVIDE 3M DBR/Y-6 SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS U.F. WIRE IN A 1" DIAMETER COIL - SCHEDULE 40 PVC MALE ADAPTER - PVC LATERAL LINE -LOWER LATERAL LINE WITH SCHEDULE 40 PVC 45° ELLS

THESE IRRIGATION NOTES

THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK
TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAYED AREAS IS FOR
CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE
POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE
ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE
CONTRACTOR IS REQUIRED TO INVESTIGATE THE STRUCTURAL AND FINISHED
CONDITIONS AFFECTING ALL OF THE CONTRACT WORK, INCLUDING OBSTRUCTIONS,
GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES WHICH MAY NOT HAVE
BEEN CONSIDERED IN THE ENSIREERING. IN THE EVENT OF FIELD DIFFERENCES, THE
CONTRACTOR IS REQUIRED TO PLAN THE INSTALLATION WORK ACCORDINGLY BY
NOTIFICATION AND APPROVAL OF THE ONNERS AUTHORIZED REPRESENTATIVE AND
ACCORDING TO THE CONTRACT SPECIFICATION. THE CONTRACT FORK WITH ALL
APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE,
CONDUT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAYING, STRUCTURE,
ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT
PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL
REQUIRED REVISIONS. THE CONTRACTOR SHALL EXERCISE CARE IN LOCATING PIPING AS TO NOT CONFLICT WITH OTHER UTILITIES. DO NOT INSTALL IRRIGATION PIPING PARALLEL TO AND DIRECTLY OVER OTHER UTILITIES. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE, AND WIND EXPOSURES. 5. AT THE END OF THE REQUIRED MAINTENANCE PERIOD OF THE CONTRACTOR, THE OWNER SHALL PROVIDE REGULAR MAINTENANCE OF THE IRRIGATION SYSTEM TO ENSURE THE EFFICIENT USE OF MATER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT AND CONTROL SYSTEM.

PVC ALGAE RESISTANT DRIP HOSE MULTI-OUTLET EMITTER

SHRUBS - TWO EMITTER TUBES



MULTI-OUTLET EMITTER INSTALLATION

10" ROUND PLASTICS VALVE BOX WITH LOCKING BOLT -3/4" PVC BALL VALVE (SALCO WMP-75) -1" IN SHRUB/GROUND COVER AREAS 3' COIL OF 3/4" DIAMETER PVC ALGAE RESISTANT FLEXIBLE HOSE. USE ONLY IPS WELD-ON #795 SOLVENT CEMENT AND P-70 PRIMER ON THIS HOSE OR DRIP LATERAL LINE-BRICK - 2 TOTAL

BER

REVISIONS

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IRRIGATION NOTES & DETAILS Conan Zhang Residence 26446 Parkside Drive Hayward, California

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rawn by:

Date: 04/03/201 2015-Zha

The following recommendations will help reduce impacts to trees from development and intain and improve their health and vitality through the clearing, grading and

- All plans affecting trees shall be reviewed by the Consulting Arborist with regard to tree impacts. This includes, but is not limited to, all Grading, Drainage, Utility and landscape plans.
- A TREE PROTECTION ZONE must be established for trees to be preserved, in which no disturbance is permitted. TREE PROTECTION ZONEs for trees identified for preservation are provided in the following table. No grading, excavation, construction or storage of materials shall occur within that zone.

Specific Tree Protection Zones

Tree No.	TPZ
#676, 677 and 700	Dripline (DL) in all directions
#678	6' E., DL in all other directions
#679	9' W., DL in all other directions
#681	9' E., 9' W., 5' N., DL S.
#686	7' W., DL in all other directions
#688	12' W. & N., DL in all other directions
#697 and 698	8' S., DL in all other directions
#699	8' S., DL in all other directions
#690	7'W DL in all other directions

- Underground services including utilities, sub-drains, water or sewer shall be routed around the TREE PROTECTION ZONE. Where encroachment cannot be avoided, special construction techniques such as hand digging or tunneling under roots shall be employed where necessary to minimize root injury.
- Tree Preservation Notes, prepared by the Consulting Arborist, should be included on all plans
- Irrigation systems must be designed so that no trenching will occur within the TREE PROTECTION ZONE
- Any herbicides placed under paving materials must be safe for use around trees
- Do not lime within 25' of any tree to be preserved. Lime is toxic to tree roots.

nstruction treatments and recommendations The demolition contractor and construction superintendent shall meet with the

- Consulting Arborist before beginning work to discuss work procedures and tree
- Fence all frees to be retained to completely enclose the TREE PROTECTION ZONE prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link or equivalent as approved by the City. Fences are to remain until all grading and construction is completed.
- Tree(s) to be removed that have branches extending into the canopy of tree(s) to remain must be removed by a qualified arborist and not by demolition or construction contractors. The qualified arborist shall remove the tree in a manner that causes no damage to the tree(s) and understory to remain. Stumps shall be ground below grade.
- Any brush clearing required within the TREE PROTECTION ZONE shall be accomplished with hand-operated equipment.

 Prune trees to be preserved to clean the crown and to provide clearance. All
- pruning shall be done by a State of California Licensed Tree Contractor (C61/D49). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recer editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300)
- All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. To the extent feasible tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.

Structures and underground features to be removed within the TREE PROTECTION

- ZONE shall use the smallest equipment, and operate from outside the TREE PROTECTION ZONE. The Consulting Arborist shall be on-site during all operations vithin the TREE PROTECTION ZONE to monitor demolition activity
- Apply and maintain 4-6" of wood chip mulch within the TREE PROTECTION ZONE.

- mmendations for tree protection during construction
 Prior to beginning work, all contractors working in the vicinity of trees to be
 preserved are required to meet with the Consulting Arborist at the site to review all
 work procedures, access routes, storage areas and tree protection measures.
- Any excavation within the dripline or other work that is expected to encounter tree roots should be approved and monitored by the Consulting Arborist. Roots shall be cut by manually digging a trench and cutting exposed roots with a sharp saw. The Consulting Arborist will identify where root pruning is required.
- No grading, construction, demolition or other work shall occur within the **TREE PROTECTION ZONE.** Any modifications must be approved and monitored by the
- PROTECTION ZONE. Any modifications must be approved and monitored by the Consulting Arborist.

 Fences have been erected to protect trees to be preserved. Fences define a specific TREE PROTECTION ZONE for each tree or group of trees. Fences are to remain until all sits work has been completed. Fences may not be relocated or removed without permission of the Consulting Arborist.
- If temporary haul or access roads must pass over the root area of trees to be retained, a road bed of 6" of mulch or gravel shall be created to protect the soil. The road bed material shall be replenished as necessary to maintain a 6" depth. Construction trailers, traffic and storage areas must remain outside fenced areas
- Prior to grading, pad preparation, excavation for foundations/footings/walls trenching, trees may require root pruning outside the TREE PROTECTION ZONE by cutting all roots cleanly to the depth of the excavation. Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, or other approved root pruning equipment. The Consulting Arborist will identify where root pruning is required and monitor all root pruning.
- All underground utilities, drain lines or irrigation lines shall be routed outside the TREE PROTECTION ZONE. If lines must traverse through the protection area, they shall be tunneled or bored under the tree as directed by the Consulting Arborist. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be
- No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the TREE PROTECTION ZONE.
- Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

Maintenance of impacted trees
Preserved trees will experience a physical environment different from that predevelopment. As a result, tree health and structural stability should be monitored.
Occasional pruning, fertilization, mulch, pest management, replanting and irrigation m
be required. In addition, provisions for monitoring both tree health and structural stab
following construction must be made a priority. As trees age, the likelithrout of failure
branches or entire trees increases. Therefore, annual inspection for hazard potential

Tree Assessment

SPECIES CONDITION Driplines (ft.) Height North South East West 676 Coast live oak 19,6 Moderate Codominant trunks at base; 19" Yes stem pruned S. for overhead utilitie 10" stem bowed NE. 677 Coast live oak Multiple attachments at 5': pruned S. for overhead utilities; inclubark/weak attachments. of canopy topped for overhead utilities; seam in attachments. Multiple attachments at 4'; pruned S. for overhead utilities: trunk wound Multiple attachments at base; poor Suppressed; crooks in trunk; trunk Codominant trunks at 4'; upright, narrow form: dieback Multiple attach form; growing against old Multiple attachments at 10': upright Codominant trunks at base; slight lean N.; seam in attachment Codominant trunks at 2'; one sided W.: seam in attachmen inant trunks at 4': several Codominant trunks at 3'; upright, narrow form; dieback. Codominant trunks at 6'; upright arrow form; dieback Codominant trunks at 6 topped with small regrowth Codominant trunks at 4'; poor form and structure; trunk decay; dieback Codominant trunks at 3': narrow

stem dead; dieback.

Table 4. Appraised value of trees identified for removal

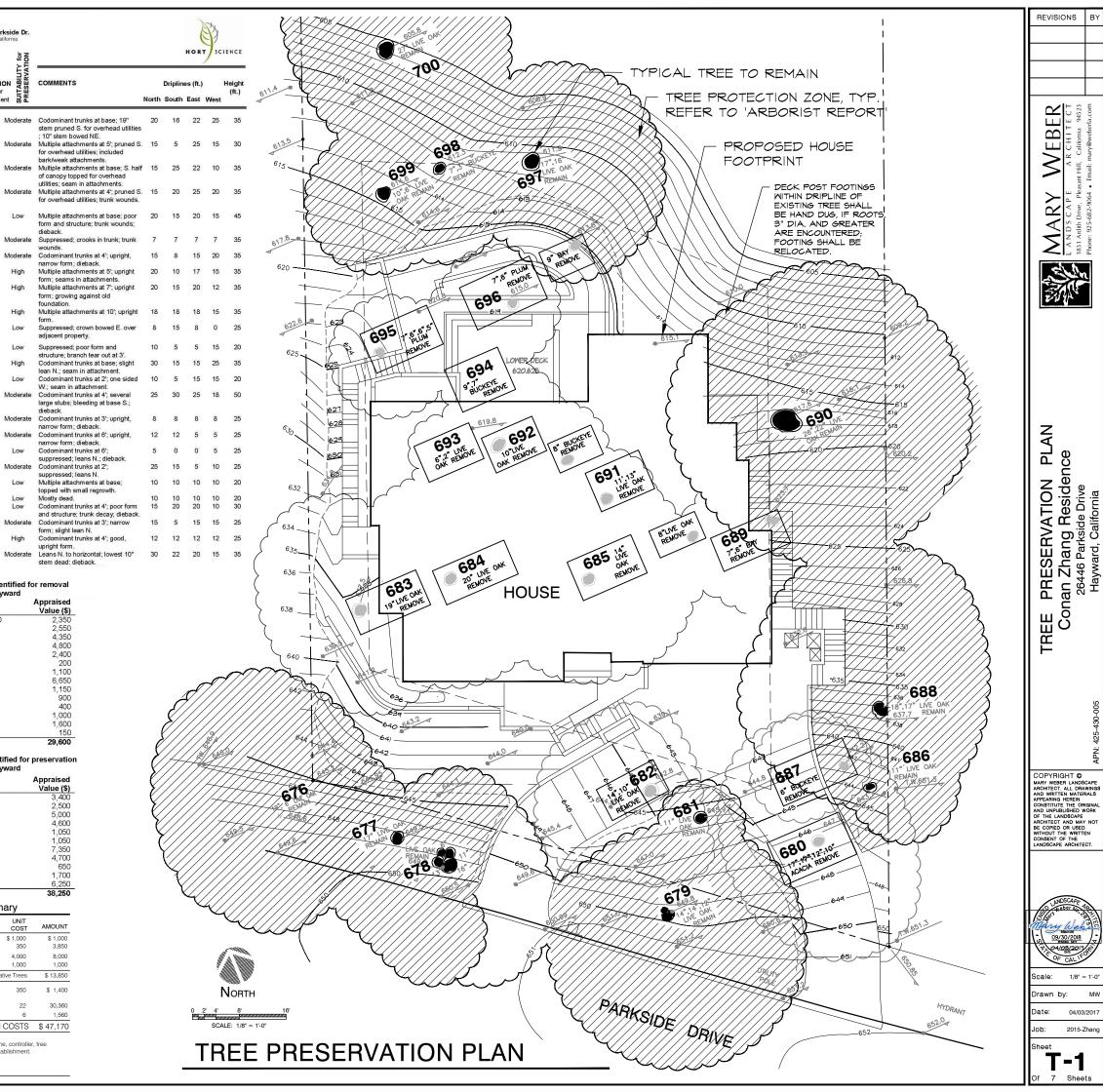
	20440 Fa	ikside Di., naywaii	u
Tree		Size	Appraised
No.	Common Name	(in.)	Value (\$)
680	Blackwood acacia	17,17,12,10	2,350
682	Coast live oak	14,10	2,550
683	Coast live oak	19	4,350
684	Coast live oak	20	4,800
685	Coast live oak	14	2,400
687	Buckeye	6	200
689	Calif. bay	7,6	1,100
690	Coast live oak	26,22	6,650
691	Coast live oak	11,3	1,150
692	Coast live oak	10	900
693	Coast live oak	6,2	400
694	Buckeye	9,7	1,000
695	Plum	7,6,6,6,5,4	1,600
696	Plum	7,6	150
Total			29,600

	20440 F a	ii kside Di., naywai	u
Tree No.	Common Name	Size (in.)	Appraised Value (\$)
676	Coast live oak	19,6	3,400
677	Coast live oak	17	2,500
678	Coast live oak	16,13,11,6	5,000
679	Coast live oak	14,14,12	4,600
681	Coast live oak	11	1,050
686	Coast live oak	11	1,050
688	Coast live oak	18,17	7,350
697	Coast live oak	17,16	4,700
698	Buckeye	7,3	650
699	Coast live oak	10,6	1,700
700	Coast live oak	27	6,250
Total			39 250

Tree	Mitigation	Summary	,
1100	wiitigation	Julillial	1

i i ee i	viiliyai	IOH 3	ullii	iiai y			
ITEM DESCRIPTION	NATIVE TREE		UNIT	UNIT COST	AMOUNT		
Dwarf Strawberry Tree - 24" Box	Yes	1	EA	\$ 1,000	\$ 1,000		
Dwarf Strawberry Tree - 15 Gal	Yes	11	EA	350	3,850		
Coast Live Oak - 48" Box	Yes	2	EA	4,000	8,000		
Coast Live Oak - 24" Box	Yes	3	EA	1,000	1,000		
		Sub	Total N	lative Trees	\$ 13,850		
Fruit Trees - 15 Gal (Mitagates Plum Trees Only)		4	EA	350	\$ 1,400		
Permeable Pavers - Driveway, Entr	y Walk	1,380	SF	22	30,360		
Permeable Gravel Paving - Backya	260	SF	6	1,560			
TOTAL MITIGATION COSTS \$ 47,170							
INIOTALLED TOFF MALLIES INIOLIS	DE.						

- Trees 24" box size & larger also includes boulders.
- Refer to Sheet L-3 for Proposed Tree Locations



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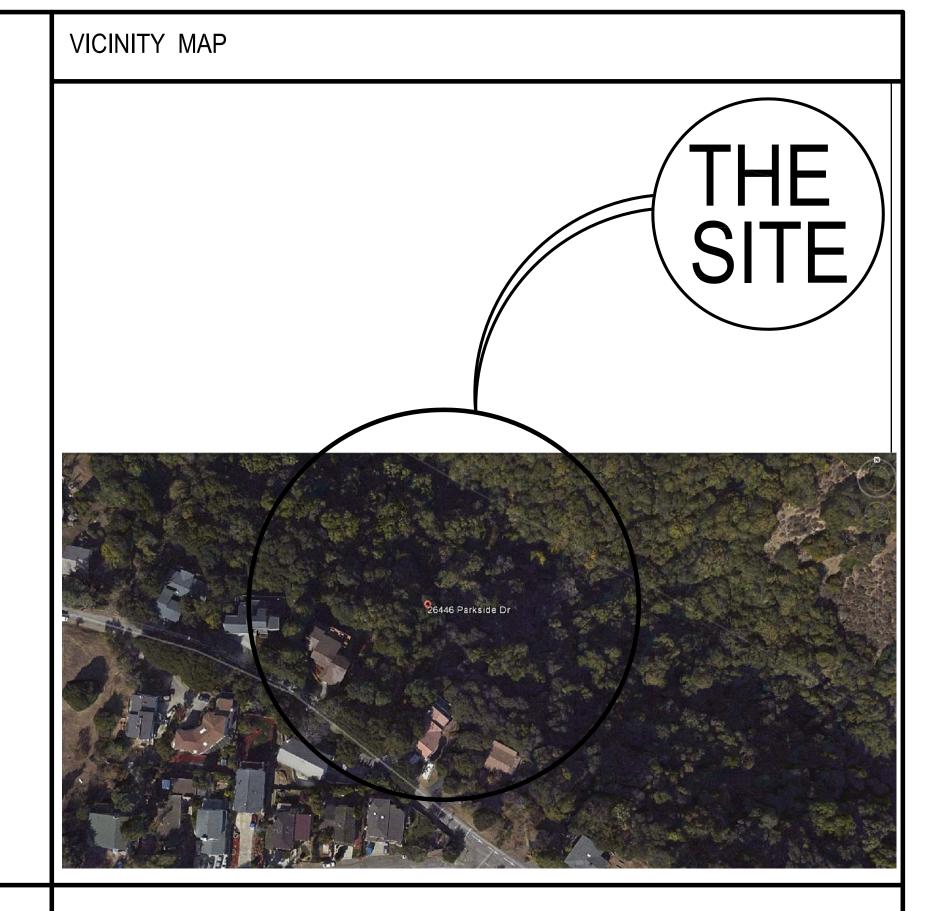
rawn by:

04/03/20

SITE DEWELOPMENT PLANS

ZHANG RESIDENCE 26446, PARKSIDE DRIVE HAYWARD, CA 94542

APN 425-0430-005-00



	LEGEND AND ABBREVIATIONS								
DESCRIPTION	ABBR	SYMBOL EXIST PE	L ROP	DESCRIPTION	ABBR	SYMBOL EXIST PROP			
ACRYLONITRILE BUTADIENE STYRENE AHEAD PAVEMENT MARKING	ABS	AHEAD AHE		MONUMENT NORTH	MON N	⊕ •			
AIR RELIEF VALVE ALTITUDE VALVE	ARV		\mathbf{a}_{-1}	NORTHEAST NUMBER	(NE) NO.	 			
AND ASPHALT CONCRETE	& AC ACP			PAC BELL MANHOLE PEDESTAL PLUG(ED)	PAC PED				
ASBESTOS CEMENT PIPE APPROXIMATE AVENUE	APPRO.			POLYVINYL CHLORIDE PORTLAND CEMENT CONCRETE	PVC PCC				
BACK OF CURB BACK OF WALK	B/C B/W			PROPERTY LINE PROPOSED PUMP VALVE ASSEMBLY	P/L PROP				
BACKFLOW PREVENTION DEVICE BASE LINE BEGIN CURB RETURN	BFP B/L BCR			RADIUS RAILROAD	R RR	R R R R			
BEGIN VERTICAL CURVE BENCH MARK	BVC BM	$\mid \oplus \mid \bullet$		RAILROAD PAVEMENT MARKING REDUCER	RCP				
BENDS (11 ¼1, 22 ½1, 45% 90°) BLIND FLANGE BLOW-OFF	BF BO			REINFORCED CONCRETE PIPE RIGHT ANGLE GLOBE VALVE RIGHT OF WAY	R/W				
BOULEVARD BOULEVARD	BOLL	1	**	ROAD SANITARY SEWER SERVICE	RD S SS	- <u>SFS</u> -			
BUTTERFLY VALVE CALTRANS DETAIL	BFV CAL CATV		ATA	SANITARY SEWER MAIN SANITARY SEWER FORCED MAIN SANITARY SEWER MANHOLE	SSFM SSMH	-18 SSFW			
CABLE TELEVISION CATCH BASIN CENTER LINE	CB C/L		⊕ 	SEWER CLEAN OUT SIDEWALK	SSCO S/W	•			
CLASS CONCRETE	CL CONC. COUPL.			SIGN SPRINKLERS SPRING CHECK VALVE	SPRKLS SCV	0			
COUPLING CONC. LINED AND COATED STEEL PIPE CORRUGATED METAL PIPE	CCSP CMP			SQUARE FEET STANDARD	SF STD. STL.				
CURB CURB AND GUTTER	C C&G			STEEL STOP PAVEMENT MARKING STORM DRAIN MAIN	SD SD	STOP STOP (2''30')			
DRIVE DRIVEWAY DROP INLET	DR. D/W DI			STORM DRAIN MANHOLE STREET	SDMH ST.				
DUCTILE IRON PIPE EACH	DIP EA			STREET NAME(S) SIGN STATION TAPPING (TAPPED)	STA. TAP.	•• • •			
EAST EDGE OF PAVEMENT ELECTRICAL LINE	(E) EP ELEC	/	<u>A</u>	TELEPHONE LINE TELEPHONE/POWER POLE	TELE.				
ELECTRICAL PULLBOX END CURB RETURN	ELEC ECR			TEMPORARÝ BENCH MARK TOE OF LEVEE TOP OF LEVEE	TBM TOE TOP				
END VERTICAL CURVE EXISTING (EXIST.) FACE OF CURB	EVC (EX.) F/C	Section Control Manager	·	TRAFFIC SIGNAL, MAST, AND POLE TRANSITION	TRANS.				
FEET FENCE	FT	aranasana 🎉 rasahansana		TREE					
FINISHED GRADE FIRE HYDRANT FIRE SERVICE	FG FH F.S.	A A	Ā	TYPE III (L & R) ARROW TYPE V ARROW		1			
FLANGE(D) FLOW LINE	FL F/L			TYPE "A" LOOP DECTOR TYPE "C" LOOP DETECTOR					
GALVANIZED GAS MAIN GAS SERVICE	GALV G GS			TYPE DB PAVEMENT MARKER TYPICAL VALLEY GUTTER	TYP.				
GAS VALVE GATE VALVE	GSV GV			VERTICAL POINT OF REVERSING CURVE VITRIFIED CLAY PIPE	VPORC VCP	SHOWER TO LEAD TO SHOW THE SHO			
GUY WRE/ANCHOR HIGH DENSITY POLYETHYELNE HIGH PRESSURE GAS	GW HDPE HPG		HPG-	WATER MAIN WATER MANHOLE WATER METER BOX	WMH WM	-12% -12%			
LANE LATERAL	LN LAT.			WATER SERVICE WAY	W (WS) WY				
LIMITS OF JOINT RESTRAINT LINEAR FEET LIP OF GUTTER	J.R. LF L/G		®	WELDED STEEL PIPE WELL WEST	(W)	•			
LICHT	17	1 24 1 4	.	WITH	lŵ/	1			

LIGHT

MANHOLE

MINIMUM

MATCH LINE

BASIS OF SURVEY

BOUNDARY DIMENSIONS AND CONTROL PER RECORDS OF SUR. NO. 828, FILED JANUARY 7, 1983 IN BOOK 13 OF RECORDS OF SURVEY AT PAGE 36 ALAMEDA COUNTY RECORDS AND INDICATED THAT THE GRADES, ELEVATIONS AND CONTOURS ARE BASED UPON SURVEY BY ALBERT GOMEZ MASSO AS BEING BASED ON CITY OF OAKLAND DATUM.

LOT AND BUILDING INFORMATION GARAGE = 500.50 SFT TYPE OF CONSTRUCTION = 2780.00 SFT OCCUPANCY TYPE LOWER LEVEL = 1630.00 SFT LOT SIZE: 37,860.00 SFT TOTAL AREA = 4410.50 SFT LOT COVERAGE

GENERAL NOTES:

ALL PUBLIC IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE CITY OF HAYWARD STANDARD SPECIFICATIONS AND SHALL BE SUBJECT TO A CITY ENCROACHMENT PERMIT.

ALL UNDERGROUND WATER, SEWER AND STORM DRAIN SYSTEMS INCLUDING THEIR APPURTENANCES WITHIN THE BUILDING SITE PROPERTY UP TO FIVE (5) FEET OF THE BUILDING SHALL CONFORM TO THE CITY OF HAYWARD STANDARD SPECIFICATIONS AND SHALL BE INSPECTED BY THE ENGINEERING DIVISION WITH THE EXCEPTION OF UNDERGROUND FIRE LINES LOCATED ON THE PRIVATE SIDE OF THE PUBLIC FIRE BACKFLOW PREVENTER.

WORK SHALL INCLUDE REPLACEMENT OF ALL BROKEN PUBLIC SIDEWALK, CURB AND GUTTER. THIS WORK SHOULD TAKE PLACE WHEN THERE IS NO FURTHER NEED TO ENCROACHMENT OF HEAVY EQUIPMENT OVER WALKS AND PIOR TO CITY APPROVAL OF THE BUILDING FOR OCCUPANCY. THE ENGINEERING DIVISION INSPECTOR WILL MARK ALL BROKEN CURB, GUTTER AND SIDE- WALK FOR REPLACEMENT UPON REQUEST.

THE ENGINEERING DIVISION WILL PLAN CHECK AND INSPECT THE MAIN WATER SERVICE TAP AND LATERAL, THE DOMESTICE METER ASEMBLY AND THE DOMESTIC AND FIRE BACKFLOW ASSEMBLIES. ON-SITE UNDER-GROUND FIRE LINE INSTALLATIONS SHALL BE PLAN CHECKED AND INSPECTED BY THE BUILDING DEPARTMENT ON-SITE FIRE HYDRANTS SHALL BE SPRAY PAINTED "SAFETY RED" AND RIGHT-OF WAY FIRE HYDRANTS SHALL BE SPRAY PAINTED "SAFETY YELLOW" WITH ONE PRIMER COAT AND TWO FINISH COATS OF DEVFLEX 4208 SERIES WATERBORNE ACRYLIC GLOSS ENAMEL, AS MANUFACTURED BY ICI DEVOE COATINGS OR APROVED EQUAL.

A FIRE HYDRANT PERMIT WILL BE REQUIRED FOR CONSTRUCTION WATER THROUGH ANY FIRE HYDRANT WITHIN THE CITY. CONTACT PUBLIC WORK FOR REQUIREMENTS.

THE CONTRACTOR SHALL REMOVE ALL USA MARKINGS ATTRIBUTED TO THIS PROJECT PRIOR TO BUILDING PERMIT FINAL.

PAVEMENT DESIGN BY A GEOTECHNICAL ENGINEER SHALL BE REQUIRED THE MINIMUM SURFACE SLOPE SHALL BE 1%. WRITTEN CERTIFICATION OF PAVEMENT GRADE BY A LICENSED CIVIL ENGINEER OR LAND SURVE-YOR AND CERTIFICATION OF THE STRUCTURAL SECTION AND COMPAC-TION BY A GEOTECHNICAL ENGINEER SHALL BE REQUIRED PRIOR TO THE ISSUANCE OF BUILDING PERMIT FINAL OR A CERTIFICATE OFOCCUPANCY. ALL UNDERGROUND FACILITIES SHALL BE LOCATED BY THE APPROPRIATE

AGENCIES PRIOR TO ANY EXCAVATION. THIS SHALL BE INITIATED

THROUGH UNDERGROUND SERVICE ALERT (U.S.A.) BY CALLING

THE GEOTECHNICAL ENGINEER SHALL BE ON-SITE TO MONITOR ALL GRADING OPERATIONS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE SITE GRADING WAS PERFORMED IN ACCORDANCE WITH THE SOILS REPORT BY

ALL UTILITY WORK INCLUDING ELECTRICAL, GAS, TELEPHONE, CABLE TV AND RAILROAD WORK SHALL BE SUBJECT TO AN ENCROACHMENT PERMIT. NORMALLY THE UTILITY COMPANIES OBTAIN SEPARATE PERMITS FOR THEIR WORK, IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE THAT THIS HAS BEEN DONE PRIOR TO BEGINNING WORK.

CONTRACTOR SHALL ADHERE TO NORMAL WORKING HOURS OF 7AM THROUGH 6PM MONDAY THROUGH FRIDAY, EXCLUDING CITY HOLIDAYS. CONSTRUCTION OUTSIDE OF NORMAL WORKING HOURS, OR ON STAURDAYS, SUNDAYS OR CITY HOLIDAYS MAY BE ALLOWED UPON PRIOR APPROVAL BY THE CITY ENGINEER. HOWEVER, WEEKEND AND CITY HOLIDAY WORK SHALL BE LIMITED TO 8 A.M. TO 6 P.M. UNLESS PRIOR APPROVAL IN WRITING IS OBTAINED FROM THE CITY ENGINEER. NIGHT WORK SHALL COMPLY WITH ALL CAL TRANS STANDARDS FOR SUCH

2. CONTRACTOR MUST GIVE THE CITY'S CONSTRUCTION INSPECTOR A MINIMUM OF TWO WORKING DAYS NOTICE OF INTENT TO WORK OUTSIDE OF NORMAL WORKING HOURS. CONSTRUCTION OUTSIDE OF NORMAL WORKING HOURS MAY INCUR ADDITIONAL OVERTIME INSPECTION REINBURSEMENT CHARGES NOT COVERED BY PREVIOUSLY PAID PLAN CHECK AND INSPECTION FEES. THE CITY, IN ITS SOLE DISC-RETION, MAY REQUIRE THE CONTRACTOR OR OWNER TO EXECUTE A REINBURSEMENT AGREEMENT FOR SUCH ADDITIONAL CHARGES PRIOR TO ANY OUTSIDE OF NORMAL WORKING HOURS.

3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY EROSION CONTROL AT ALL TIMES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATE DEBRIS PRIOR TO ACCEPTANCE BY THE CITY. CARE SHALL BE EXERCISED II OCTOBER15th OF EACH YEAR, OR EARLIER IF CONDITIONS WARRANT, SUCH TEMPORARY FEATURES AS ARE NECESSARY TO PREVENT DAMAGE DURING FORTHCOMING WINTER SEASON SHALL BE CONSTRUCTED AND FUNCTIONING. MUD AND SILT SHALL BE SETTLED OUT OF THE STORM RUNOFF BEFORE SAID RUNOFF LEAVES THE CONSTRUCTION SITE OR ENTERS CITY STORM DRAIN SYSTEMS, OR NATURAL CHANNEL.

4. ANY WATER ENTERING THE SANITARY SEWER SYSTEM TO BE CONSTRUCTE UNDER THE APPROVED PLANS SHALL NOT BE DISCHARGE TO THE EXISTING SEWER SYSTEM. PLUGS SHALL BE INSTALLED IN EXISTING MANHOLES AS NECESSARY TO PERMIT PUMPING THE NEW SYSTEM CLEAR OF WATER AND MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY. BY LOCATING PLUGS TO AVOID INTERRUPTING SERVICE TO EXISTING CONN-ECTIONS. MECHANICAL PLUGS OR MORTAR AND BRICK MUST BE USED. INFLATABLE DEVICES ARE NOT ALLOWED.

5. SIGNING: LOCATIONS OF PERMANENT TRAFFIC CONTROL SIGNING AND POSTS SHOWN ON PLANS ARE SCHEMATIC, FINAL LOCATIONS SHALL BE APPROVED BYTHE ENGINEERING DIVISION-TRAFFIC/TRANSPORTATION SECTION IN THE FIELD PRIOR TO INSTALLATION.

6.STRIPING: ALL PERMANENT TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. TEMPORARY PAVE-) PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. MENT MARKINGS AND CAT- TRACKING SHALL BE INSTALLED AND APPROVED BY THE ENGINEERING DIVISION - TRAFFIC/TRANSPORTATION SECTION IN THE FIELD PRIOR TO INSTALLATION OF FINAL STRPING AND MARKING

		U	TILITY REF	PRESENTA	ATIVE	S
CITY OF HAY\	WARD	UTILITY	REPR	ESENTATIVE		PHONE
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PROJECT TITLE:		TELEPHONE	PACIFIC BE	LL		
ZHANG RESIDEN	ICE	WATER	CITY OF HA	YWARD		
ASSESSORS PARCEL NO: 425	0430 005 00	SEWER	CITY OF HA	YWARD		
		DRAINAGE	CITY OF HA	YWARD		
CAL COORDINATES:		U.S.A.	U.S.A.			(800) 642- 2444
APPROVED:	DATE:	CABLE	COMCAST			
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01151155 514						
CHECKED BY:	DRAINAGE APPROVED:					
		REVISION	DESCRIPTION	ENGINEER'S	COUN	TY APPROVAL

APPROVED BY:			NUMBER	DESCRIPTION	INITIAL	BY	DATE
DIRECTOR OF COUNTY EN	GINEERING	DATE					
						<u> </u>	-
		(1) 1515					
APPROVED BY:	EXPIRES IN ONE	(1) YEAR					
CITY OF HAYWARD (FIRE)		DATE					
APPROVED BY:	EXPIRES IN ONE	(1) YEAR				<u> </u>	
CITY OF HAYWARD (WATER)		DATE					
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DRAWING INDEX

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
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C-2	SITE PLAN	EC-2	EROSION CONTROL DETAILS
C-3	GRADING AND DRAINAGE PLAN		
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C-5	DRIVEWAY/FRONT WALL ENLARGED PLAN SHEET-1		
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C-9	CIVIL STANDARD DETAILS SHEET—2		
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ARCHITECT

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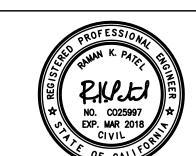
CONAN ZHANG

26446 PARKSIDE DRIVE HAYWARD, CA 94542

PROJECT TITLE

ZHANG RESIDENCE

26446 PARKSIDE DRIVE, HAYWARD, CA 94542



Date Signed: FEB. 06, 2017

SHEET CONTENT

TITLE SHEET

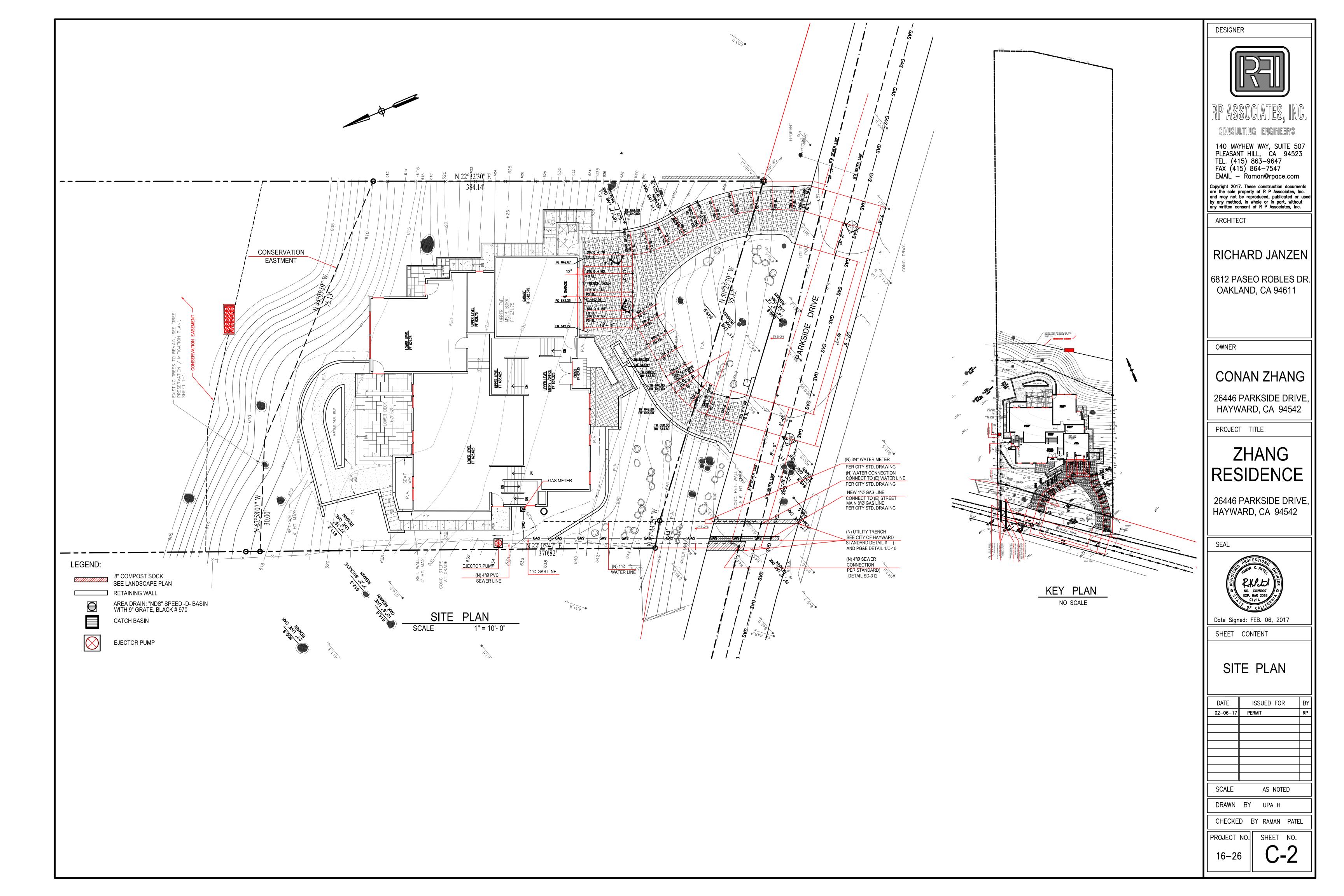
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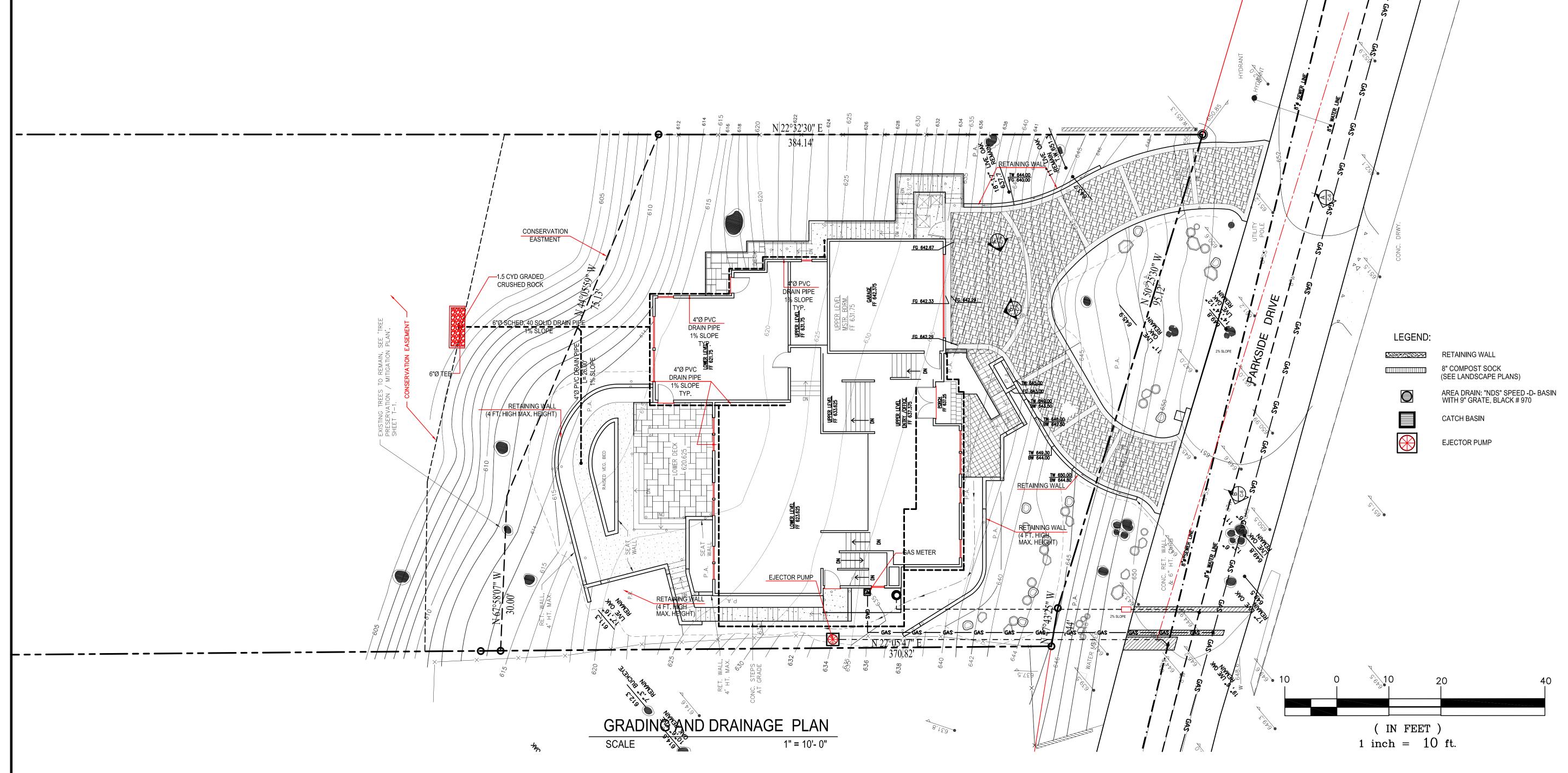
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PROJECT NO. | SHEET NO. 16-26





GENERAL NOTES

- 1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONST-RUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFI—
 CATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING
 AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SETFORTH THEREIN ARE A
 PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL
 TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE
 CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY
 DISCREPANCY BETWEEN SOILS REPORT, PLANS, AND/OR SPECIFICATIONS.
- 3. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS & SPECIFICA—TIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING & REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUTABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION ACCORDING TO ASTM D1557, MOST RECENT VERSION. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE, NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- 4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
- 5. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CON—STRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CON—STRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 6. WATER SERVICE SHALL BE AS NOTED ON THESE PLANS AND SHALL BE INSTALLED WITH 24" MINIMUM COVER OR BELOW FROSTLINE, WHICHEVER IS GREATER.

GRADING NOTES

- 1. ALL EXCESS FILL SHALL BE DISPOSED OF IN ACCORDANCE WITH CITY REQUIREMENTS. ALL BUILDING DEBRIS SHALL BE DISPOSED OF OUTSIDE THE CITY OF HAYWARD.
- PRIOR TO COMMENCEMENT OF WORK, APPROVAL BY THE CITY ENGINEER SHALL BE OBTAINED FOR THE TRENCHING OF COMPLETED STREETS. THE CITY ENGINEER MAY REQUIRE THAT TRENCHES METHODS BE USED FOR CROSSING AND CONNECTIONS UNDER STREETS.
- 3. PRIOR TO OCCUPANCY, THE APPLICANT SHALL REPAIR AND REPLACE TO CITY STANDARDS ANY STREETS, CURBS, GUTTERS AND SIDEWALKS DAMAGED DURING CONSTRUCTION OF THE PROJECT.
- 4. PRIOR TO ISSUANCE OF A BUILDING PERMIT, THE EXISTING STORM DRAIN LINES SHALL BE TELEVISED TO VERIFY THEY HAVE NOT BECOME PLUGGED WITH SEDIMENT AND CLEANOUT IF NECESSARY.
- 5. PAVEMENT SECTION (TI= 6):
 - FLEXIBLE PAVEMENT = 3.00 ASPALTH CONCRETE OVER 7.5 CLASS 2 AGGREGATE BASE

RIGID PAVEMENT= 6.0 IN THICK RIGID CONCRETE PAVEMENT OVER 6.0 IN CLASS II AGGREGATE BASE fc'= 2,500 PSI, #4 @ 12" E.W. REINFORCING STEEL

THE AGGREGATE BASE AND THE UPPER 6 INCHES OF UNDERLAYING SOIL SUBGRADE SHOULD BE COMPACTED TO MINIMUM OF 95 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D 1557.

- 6. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 8 A.M. TO 5 P.M. ON WEEKDAYS UNLESS DEVIATIONS FROM THIS SCHEDULE ARE APPROVED IN ADVANCE BY THE CITY. NONCONSTRUCTION ACTIVITIES MAY TAKE PLACE BETWEEN THE HOURS OF 7 A.M. AND 8 A.M. ON WEEKDAYS AND 9 A.M. AND 4 P.M. ON SATURDAYS, BUT MUST BE LIMITED TO QUIET ACTIVITIES AND SHALL NOT INCLUDE THE USE OF ENGINE DRIVEN MACHINERY.
- 7. BLOWING DUST SHALL BE REDUCED BY TIMING CONSTRUCTION ACTIVITIES SO THAT PAVING AND BUILDING CONSTRUCTION BEGIN AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING, AND BY LANDSCAPING DISTURBED SOILS AS SOON AS POSSIBLE. FURTHER, WATER TRUCKS SHALL BE PRESENT AND IN USED AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CITY IN ORDER TO INSURE PROPER CONTROLOF BLOWING DUST FOR THE DURATION OF THE PROJECT. WATERING ON PUBLIC STREETS SHALL NOT OCCUR. STREETS WILL BE CLEANED BY STREET SWEEPERS OR BY HAND AS OFTEN AS DEEMED AS NECESSARY BY THE CITY ENGINEER. WATERING ASSOCIATED WITH ON SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE HOURS OF 8 A.M. AND 7 P.M. AND SHALL INCLUDE AT LEAST ONE LATE AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK—WEEK TO THE SATISFACTION OF THE CITY.

- 8. THE DEVELOPER SHALL NOTIFY THE CITY ENGINEER, IN WRITING AT LEAST 48 HOURS IN ADVANCE OF ALL DIFFE-RENCES BETWEEN THE PROPOSED WORK AND THE DESIGN INDICATED ON THE PLANS AND SHALL BE SUBJECT TO THE APPROVAL OF THE CITY BEFORE WORK IS ALTERED.
- 9. THE GENERAL CONTRACTOR SHALL PROVIDE QUALIFIED SUPERVISION ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
- 10. ALL WORK SHALL CONFORM TO THE APPLICABLE CITY/DISTRICT CODES. GOOD HOUSEKEEPING PRACTICES SHALL BE OBSERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. SUPERINTENDENCE OF CONSTRUCTION SHALL BE DILIGENTLY PERFORMED BY A PERSON OR PERSONS AUTHORIZED TO DO SO AT ALL TIMES DURING WORKING HOURS. THE STORING OF GOODS AND OR MATERIALS ON THE SIDEWALK AND OR THE STREET WILL NOT BE ALLOWED UNLESS A SPECIAL PERMIT IS ISSUED BY THE ENGINEERING DIVISION.
- 11. CURRENT BEST MANAGEMENT PRACTICES FOR NEW CONSTRUCTION AS OUTLINED BY THE CITY OF HAYWARD STORMWATER POLLUTION PREVENTION PROGRAM SHALL BE FOLLOWED.

DESIGNER



RP ASSOCIATES, IN

CONSULTING ENGINEER'S

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CONAN ZHANG

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PROJECT TITLE

ZHANG RESIDENCE

26446 PARKSIDE DRIVE HAYWARD, CA 94542

SEAL



Date Signed: FEB. 06, 2017

SHEET CONTENT

GRADING AND DRAINAGE PLAN

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CHECKED BY RAMAN PATEL

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GENERAL NOTES

- 1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONST-RUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFI-CATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SETFORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT, PLANS, AND/OR SPECIFICATIONS.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS & SPECIFICA-TIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING & REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUTABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION ACCORDING TO ASTM D1557, MOST RECENT VERSION. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE, NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- 4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CON-TRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPEN-SATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE
- FACILITIES CAUSED BY HIS WORK FORCE. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CON-STRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CON-STRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- WATER SERVICE SHALL BE AS NOTED ON THESE PLANS AND SHALL BE INSTALLED WITH 24" MINIMUM COVER OR BELOW FROSTLINE, WHICHEVER IS GREATER.

UTILITY NOTES

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN HEREON HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN DELINEATED USING THE RECORDS OF THE AGENCIES RESPONSIBLE. THE SURVEYOR/ENGINEER IS NOT RESPONSIBLE FOR COMPLETENESS, INDICATED LOCATION, OR SIZE. UNDERGROUND UTILITY LOCATION, SIZE AND DEPTH SHALL BE CONFIRMED BY THE OWNER OR ANY OTHER USER OF THIS PLAN BY EXCAVATION OR INSPECTION.

THE FOLLOWING AGENCIES DID NOT RESPOND TO A REQUEST FOR UTILITY INFORMATION. THEY MAY HAVE FACILITIES WHICH EXIST WHICH ARE NOT SHOWN HEREON:

CITY OF HAYWARD WATER DEPARTMENT CITY OF HAYWARD DEPARTMENT OF ELECTRICITY CITY OF HAYWARD BUREAU OF TRAFFIC ENGINEERING CITY OF HAYWARD BUREAU OF LIGHT HEAT AND POWER CITY OF HAYWARD UTILITIES ENGINEERING BUREAU

PACIFIC GAS AND ELECTRIC COMPANY

DESIGNER



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CONAN ZHANG

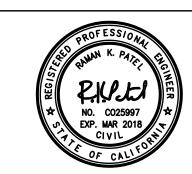
26446 PARKSIDE DRIVE, HAYWARD, CA 94542

PROJECT TITLE

ZHANG RESIDENCE

26446 PARKSIDE DRIVE, HAYWARD, CA 94542

SEAL



Date Signed: FEB. 06, 2017

SHEET CONTENT

UTILITY PLAN

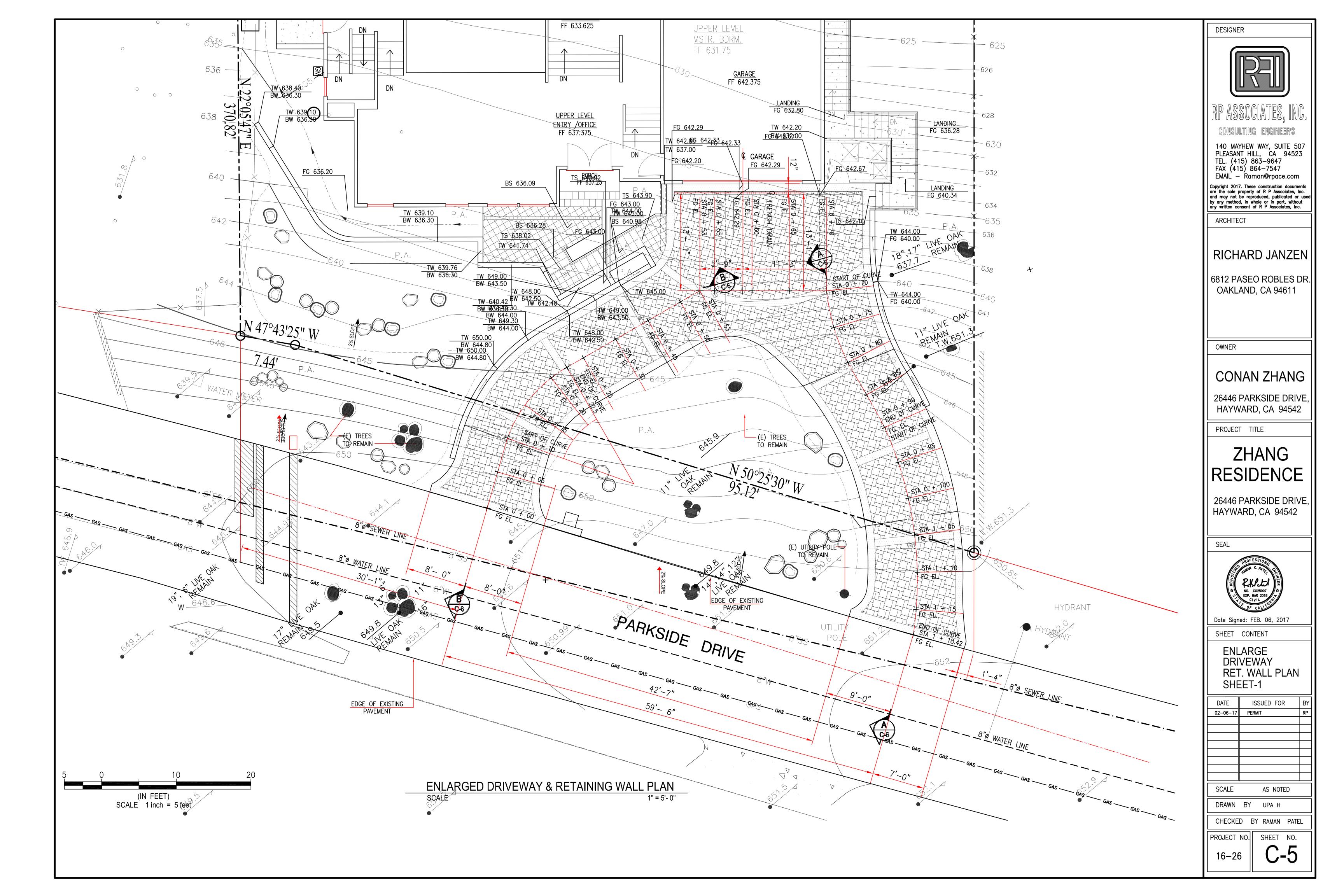
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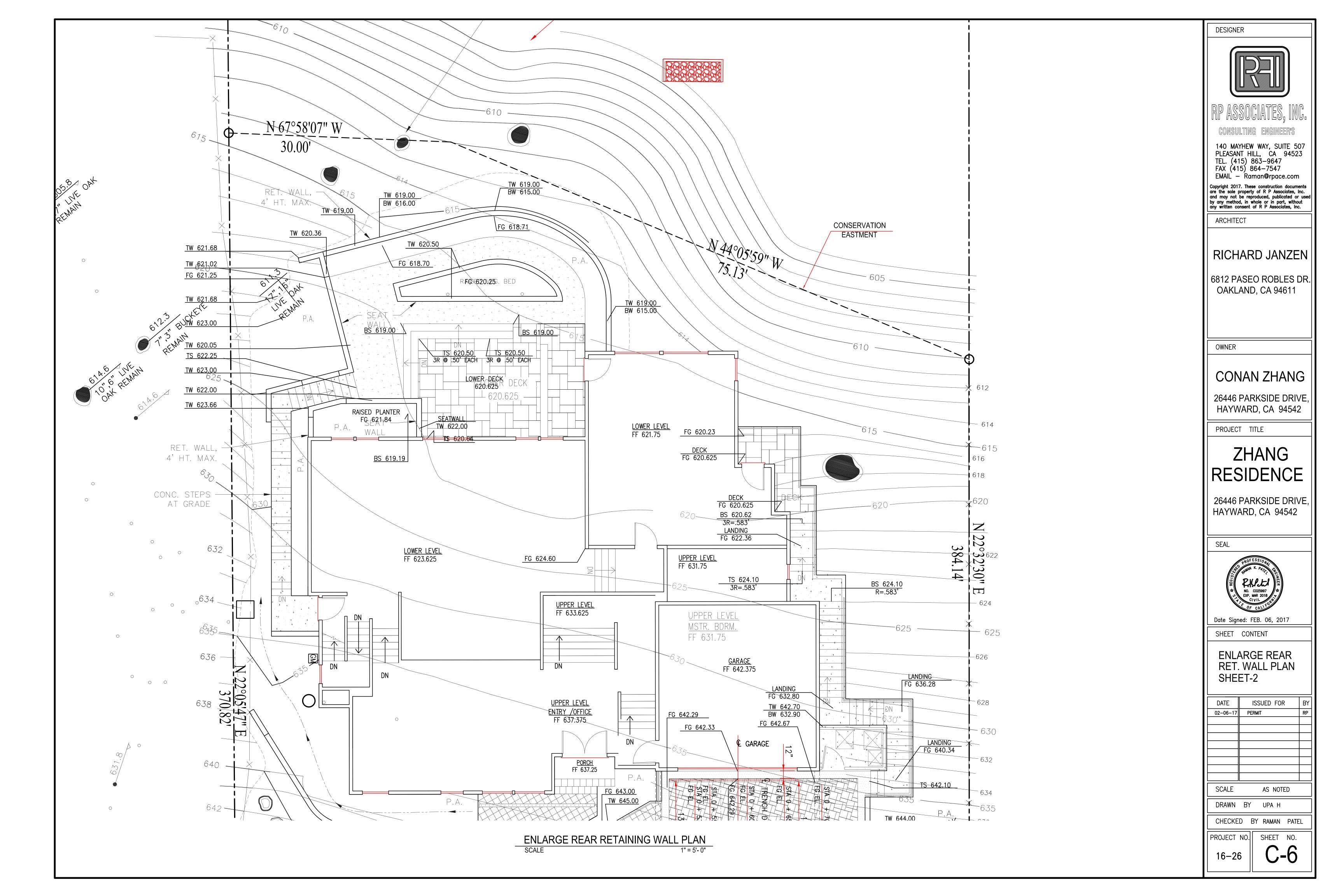
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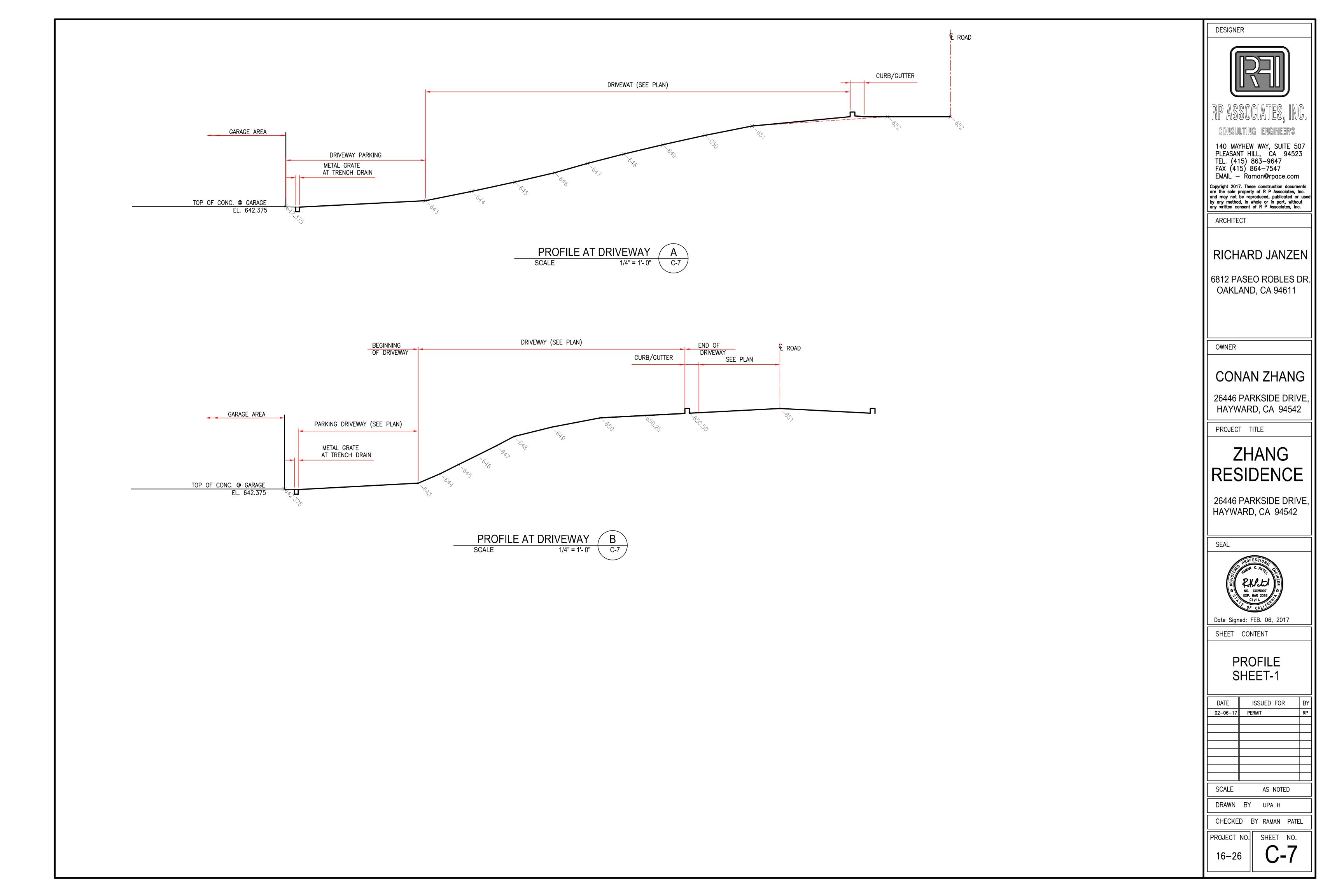
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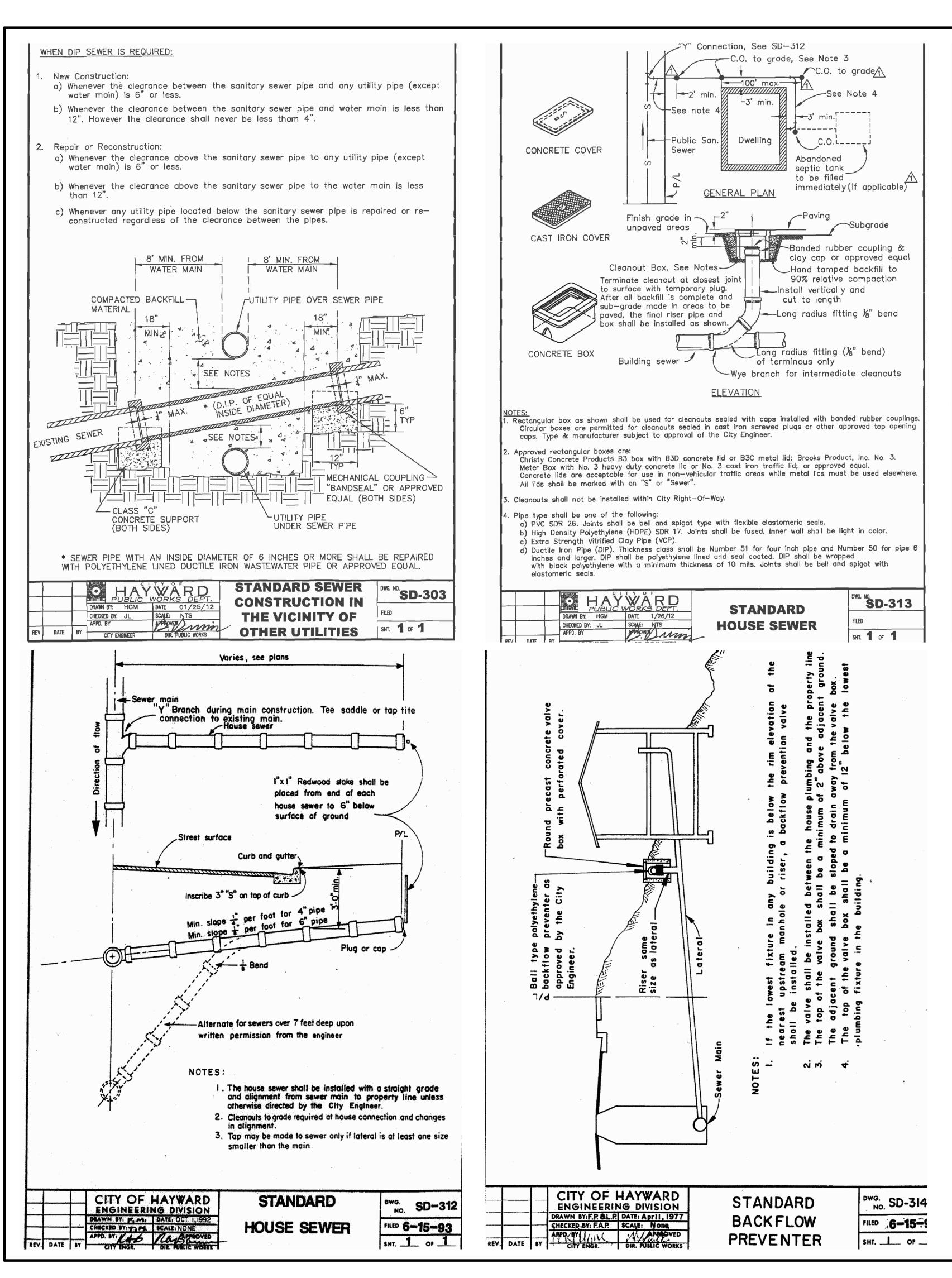
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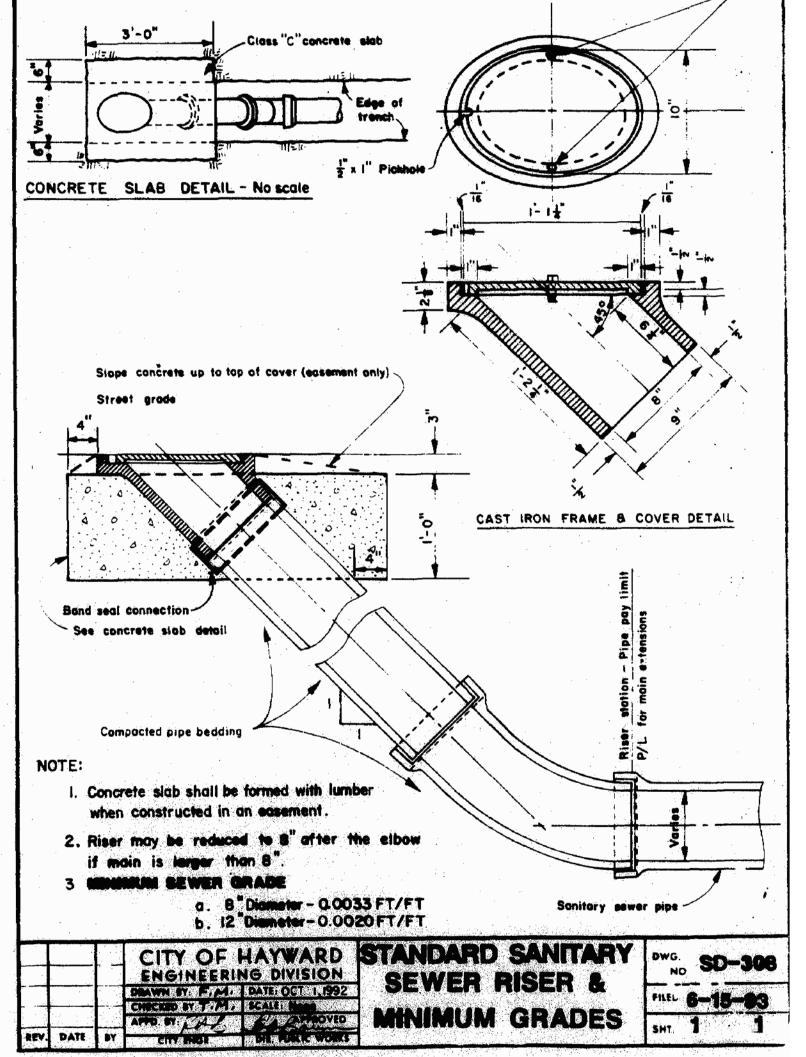
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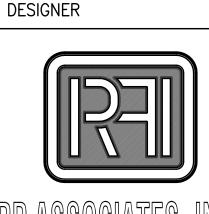












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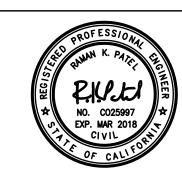
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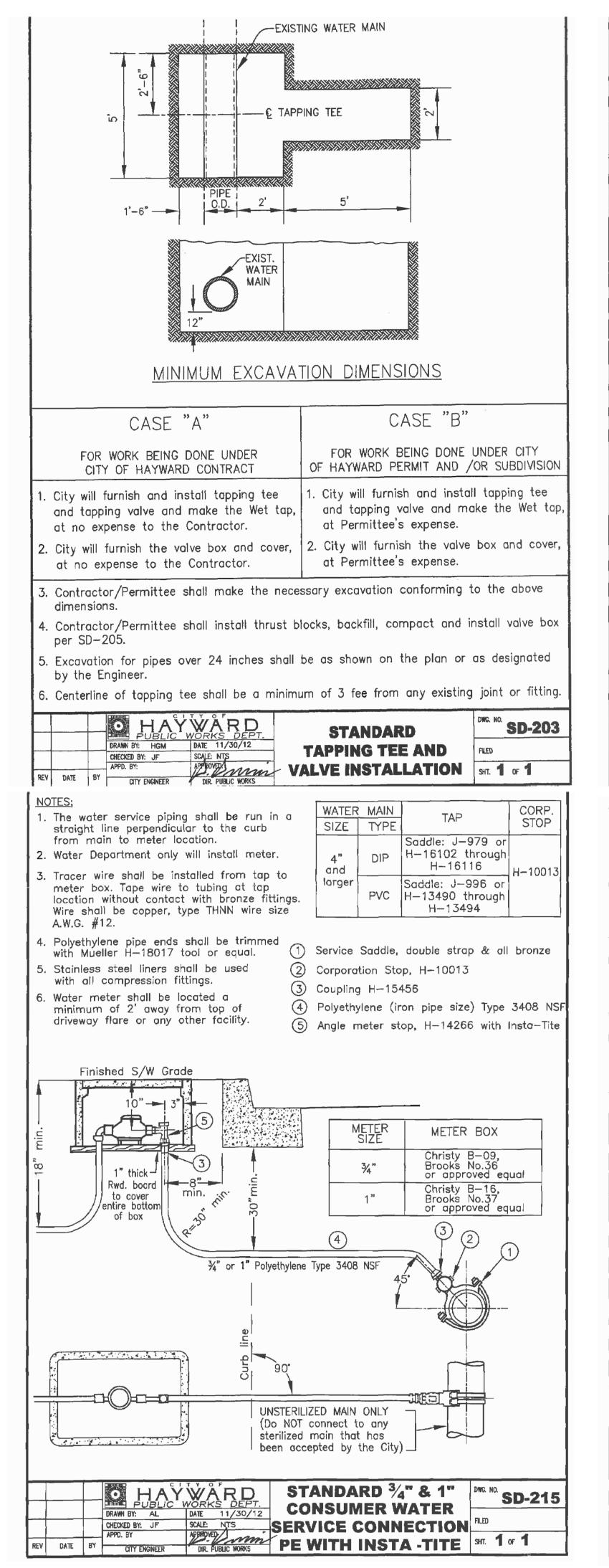
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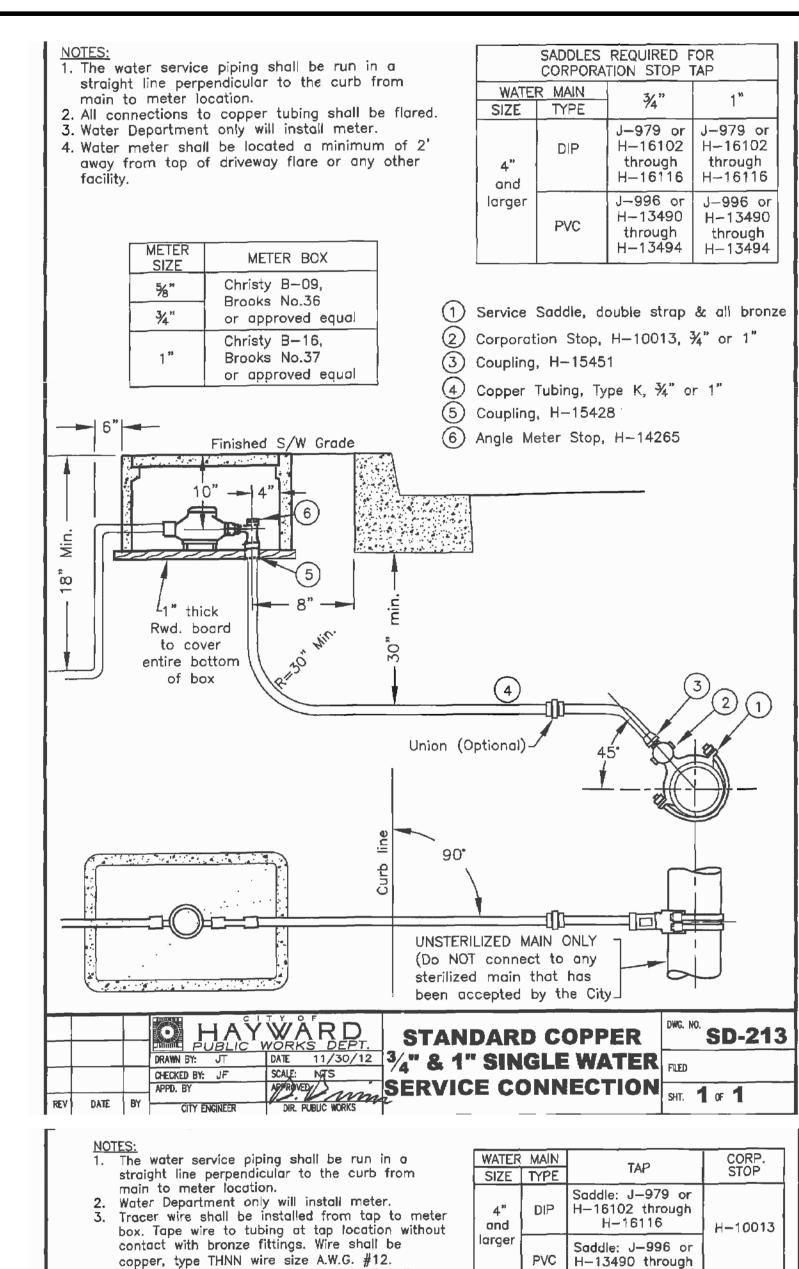
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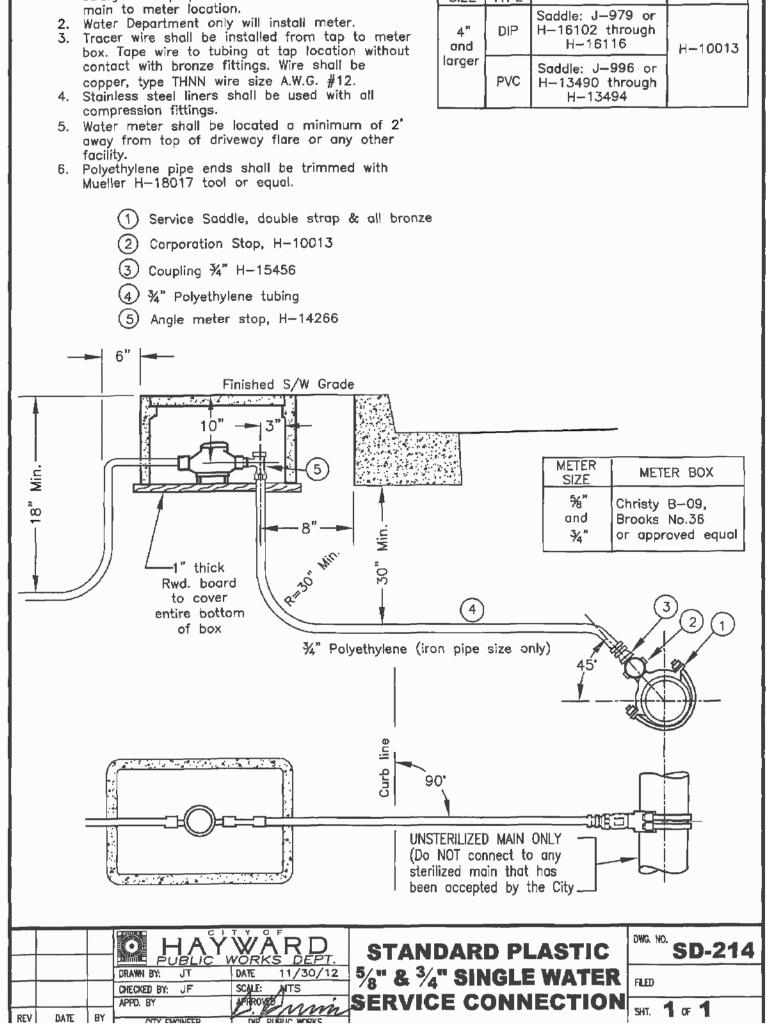
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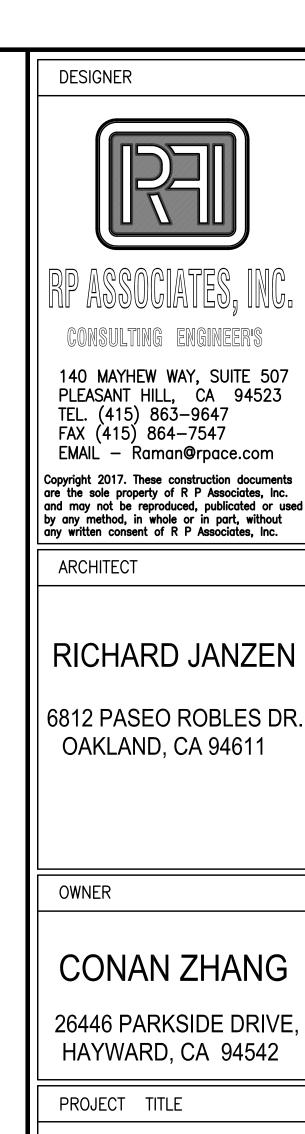
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ZHANG RESIDENCE

26446 PARKSIDE DRIVE, HAYWARD, CA 94542



Date Signed: FEB. 06, 2017

SHEET CONTENT

STANDARD DETAILS SHEET- 2

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PROJECT NO. | SHEET NO.

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF HAYWARD STANDARD CONSTRUCTION SPECIFICATIONS AND IMPROVEMENT STANDARDS. WHERE INCONSISTENCIES EXIST, THE LATEST EDITION SHALL TAKE PRECENDENCE.
- 2. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION G6-12 OF THE STANDARD CONSTRUCTION SPECIFICATIONS AND AS DIRECTED BY THE COUNTY INSPECTOR. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
- 3. THE CONSULTING ENGINEER SHALL NOTIFY THE CITY OF HAYWARD CONSTRUCTION

INSPECTION OFFICE UPON COMPLETION OF STAKING. (PHONE NO.

- THE CONTRACTOR SHALL NOTIFY THE CITY OF HAYWARD CONSTRUCTION INSPECTION OFFICE TWO WORKING DAYS PRIOR TO THE INTENTION TO COMMENCE WORK. THE CONTRACTOR SHALL NOT START ANY GRADING UNTIL THE COUNTY COMPLETES A PRECONSTRUCTION MEETING. (PHONE NO.
- 5. THE COUNTY OF ALAMEDA IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE CALL PROGRAM. THE CONTRACTOR OR ANY SUB-CONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. TWO WORKING DAYS IN ADVANCE OF PREFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMER: 1-800 227-2600. THOMAS BROTHERS MAP PAGE______ INDEX_____, 2014 EDITION.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRCTORS EXPENSE.
- 7. ALL SERVICE SEWERS SHALL HAVE FOUR TO FIVE FEET OF COVER AT PROPERTY LINE OR RIGHT OF WAY, UNLESS OTHERWISE NOTED ON PLANS.
- 3. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 11 OF THE CITY OF HAYWARD IMPROVEMENT STANDARDS.
- 9. WHENEVER THE WORK AREA IS ADJACENT TO A TRAFFIC LANE AND THERE IS A CUT, DITCH OR TRENCH MORE THAN TWO INCHES DEEP, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS BARRICADES SPACED AT APPROXIMATELY 20—FOOT INTERVALS FOR THE FIRST 100 FEET FROM THE BEGINNING OF THE CUT, DITCH OR TRENCH, AND AT APPROXIMATELY 50— FOOT INTERVALS THEREAFTER. IF THE CUT, DITCH TRENCH IS MORE THAN TEN FEET FROM A TRAFFIC LANE, THE BARRICADE SPACING MAY BE GREATER BUT NOT EXCEED 200 FEET.
- 11. NO PAVEMENT WORK WILL OCCUR WQITHIN THE ROAD RIGHT OF WAY PRIOR TO COMPLETION OF ANY NECESSARY UTILITY POLE RELOCATION WITHIN THAT RIGHT OF WAY.

CITY OF HAYWARD WATER DISTRICT NOTES:

WITH ASPHALT AND IS AT LEAST TEN FEET WIDE.

- 1. CITY OF HAYWARD WATER DISTRICT IS A MEMBER OF U.S.A. ONE CALL PROGRAM. CALL FOR PUBLIC WATER SYSTEM INFORMATION.
- 2. ALL MATERIALS USED AND WORK PERFORMED IN WATER SYSTEM CONSTRUCTION AND INSTALLATION SHALL COMPLY WITH APPROVED PLANS, SPECIAL CONDITIONS AND THE DISTRICT STANDARDS AND SPECS. ANY AND ALL DEVAITIONS FROM THESE DOCUMENTS SHALL REQUIRE PRIOR WRITTEN APPROVAL BY THE GENERAL MANAGER OF THE DISTRICT.
- 3. TEN (10) DAYS PRIOR TO PRE— CONSTRUCTION MEETING, THE CONTRACTOR SHALL FURNISH TO THE DISTRICT, A LIST OF MATERIALS PROPOSED TO BE USED IN CONSTRUCTING THE WATER SYSTEM, INCLUDING MANUFACTURER, ACTUAL LOCATION OF MANUFACTURER AND MODEL NUMBER.
- 4. AN ON SITE MEETING WITH DISTRICT INSPECTOR, CONSULTING ENGINEER, COUNTY INSPECTOR AND CONTRACTOR MUST BE HELD AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION TO INSPECT MATERIALS, SCHEDULE INSPECTIONS, REVIEW THE APPROVED WATER SYSTEM PLANS AND SCHEDULE ANY TIE IN CONNECTIONS. PRE— CONSTRUCTION MEETINGS WILL NOT BE SCHEDULED UNTILL ALL DISTRICT COST AND FEES HAVE BEEN PAID IN FULL AS WELL AS SUBMITTALS OF ALL MATERIALS LIST, GUARANTEE LETTERS, ENCROACHMENT/ MAINTENANCE BONDS, FINAL SIGNED PLANS, REPRODUCIBLE PLANS AND ELECTRONIC FILE OF PROJECT.
- 5. NO WORK SHALL BEGIN UNTIL ITEMS IN GENERAL NOTES "3 "AND "4" ARE COMPLETED.
- 6. ALL WATER SYSTEM SHUTDOWNS SHALL BE MADE ONLY BY DISTRICT PERSONNEL. UNDER NO CIRCUMSTANCES SHALL ANYONE OTHER THAN THE DISTRICT OPEN OR CLOSE ANY VALVE IN THE DISTRICT SYSTEM. SHUTDOWNS FOR THE PURPOSE OF MAKING CONNECTIONS TO EXISTING MAINS MUST BE SCHEDULED AT LEAST THREE (3) DAYS IN ADVANCE, AND ARE ONLY PERMITTED ON TUESDAY, WEDNESDAY OR THURSDAY. THE HOURS OF THE SHUTDOWN SHALL BE DETERMINED BY THE DISTRICT.
- 7. THE FINISH GRADE SHALL BE ESTABLISHED, STAKED AND MARKED AT EACH WATER SERVICE CONNECTION AND HYDRANT LOCATION. PERMANENT PROPERTY CORNER MARKERS SHALL BE PLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR.
- 8. A SEPARATE WATER SERVICE CONNECTION MUST BE INSTALLED FOR EACH LOT, PARCEL OR PREMISE AND SHALL BE ONE INCH DIAMETER UNLESS OTHERWISE SPECIFIED ON THE APPROVED WATER PLAN. NO SERVICE SHALL BE PERMITTED WITHIN 20' OF A BLOW OFF ASSEMBLY.
- THE COMPLETED WATER SYSTEM MUST BE DISINFECTED, HYDRO—TESTED AND FLUSHED.
 NO WATER SERVICE WILL BE PROVIDED AND NO CONNECTIONS TO WATER SERVICE WILL BE PERMITTED UNTIL THE REQUIREMENTS FOR TEMPORARY WATER APPROVAL HAVE BEEN
- COMPLETED.

 11. AT THE TIME OF FINAL ACCEPTANCE BY THE DISTRICT, THE COMPLETED WATER SYSTEM AND MAIN EXTENSIONS WITH ALL APPURTENANCES, APPARATUS, FITTINGS AND EQUIPMENT SHALL
- BECOME AND FOREVER REMAIN THE PROPERTY OF THE DISTRICT.

 12. ALL EXISTING WATER SERVICES NOT REQUIRED FOR THIS PROJECT SHALL BE ABONDONED
- ACCORDING TO THE FOLLOWING. THE EXACT METHOD SHALL BE DETERMINED BY THE DISTRICT INSPECTOR.
- A. REMOVING SECTION OF PIPE AND REPLACING WITH A NEW SECTION.
 B. REMOVE CORPORATION STOP, SADDLE AND PLACE A FULL CIRCLE 20" WIDE, STAINLESS STEEL REPAIR BAND.
- 13. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY CERTIFIED APPROVED COUNTY TESTERS PRIOR TO FINAL ACCEPTANCE. COPIES OF SATISFACTORY TEST RESULTS SHALL BE FURNISHED TO THE DISTRICT PRIOR TO FINAL ACCEPTANCE OF SYSTEM AT NO COST TO THE DISTRICT. WATER SERVICE SHALL NOT BE PROVIDED UNTIL DISTRICT RECEIVES THE SATISFACTORY TEST RESULTS.
- 14. UPGRADE OF EXISTING FACILITIES SHALL INCLUDE BUT NOT LIMITED TO BRINGING FACILITY TO CURRENT STANDARDS AND/OR REPLACEMENT AS REQUIRED OR DIRECTED BY THE DISTRICT.
- 15. A SEPARATE SAMPLING STATION AND/OR STATIONS SHALL BE INSTALLED AS NECESSARY TO MEET STATE DEPARTMENT OF HEALTH SERVICES REQUIREMENTS FOR COLIFORM TESTING.

HDPE PIPES:

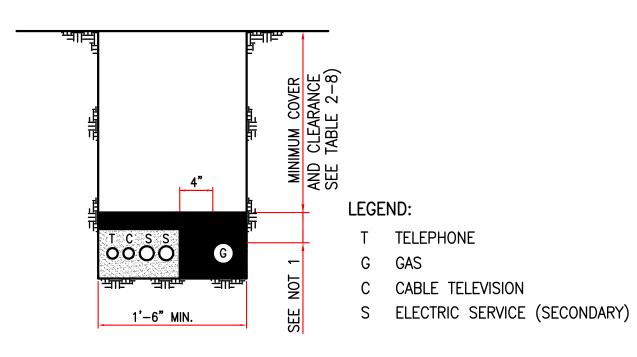
- 1. USE CONTROL DENSITY BACKFILL SECTION 50-15, FOR LOCATIONS WHERE TUNNELING OCCURS UNDER EXISTING STORM DRAIN PIPES.
- 2. NO HDPE IS ALLOWED FOR STORM DRAIN LATERALS IN STREET INTERSECTIONS.

SIDEWALK CURB AND GUTTER NOTES:

- ALL SITE IMPROVEMENT WORK SHALL BE DONE IN ACCORDANCE WITH CITY
 OF HAYWARD PUBLIC WORKS AGENCY IMPROVEMENT STANDARDS.
- 2. SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.
- 3. WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, REMEDIAL WORK TO BE DONE UNDER THE DIRECTION OF THE CITY ENGINEER, INCLUDES BUT IS NOT LIMITED TO, REMOVING UNSUITABLE MATERIAL AND PLACING A LAYER OF CLASS II AGGREGATE BASE UNDER THE INSTALLATION.
- 4. UNDERCUT SUBGRADE FOR GUTTER OR SIDEWALK SHALL BE FILLED WITH APPROVED GRANULAR MATERIAL.
- 5. EXISTING CONCRETE SHALL BE REMOVED AT EXPANSION OR WEAKENED PLANE JOINTS OR AT SAWCUTS.
- 6. SAWCUTS MUST BE FULL DEPTH.
- 7. NO UTILITY BOXES OR POLES WILL BE PERMITTED IN THE SIDEWALK AREA WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER
- WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER.

 8. NEW WORK SHALL MATCH EXISTING IN SCORE AND COLOR.
- 9. NO CONCRETE SHALL BE PLACED UNTIL THE CITY ENGINEER HAS INSPECTED
- AND APPROVED FORMS AND SUBGRADE.

 10. ALL EXPOSED EDGES SHALL BE ROUNDED WITH 1/2 INCH RADIUS TOOL.
- 11. ALL SURFACES SHALL BE BROOM FINISHED.
- 12. ALL SIDEWALK CONSTRUCTED ADJACENT TO CURBS SHALL BE POURED MONO-LITIC WITH CURB UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 13. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED BY A STATE LICENSED "CLASS A" CONTRACTOR. CONCRETE FLATWORK MAYBE PERFORMED BY A CONCRETE CONTRACTOR WITH A "CLASS C" LICENSE.
- 14. ALL PAVING SHALL BE COMPLETED NO LATER THAN 5 DAYS AFTER INSTALL—ATION OF UTILITY.
- 15. MINIMUM 6 INCHES OF ASPHALT SHALL BE REMOVED FOR INSTALLATION OF FORMS. FOR CURB AND GUTTER INSTALLATIONS AC SHALL BE BROUGHT TO FINISH GRADE OF FORMS AND TRANSITIONED AS REQUIRED BY THE CITY ENGINEER.
- 16. ALL ASPHALT REPAIRS SHALL BE FLUSH WITH THE ADJACENT SURFACES AT CONFORMS AND EDGES. MAXIMUM ALLOWABLE TOLERANCES SHALL BE .01 FEET LONGITUDINALLY AND .02 FEET TRANSVERSELY.
- 17. ALL FACE ANGLE INSTALLATIONS IN RETURNS SHALL MATCH EXISTING RADIUS



TYP. PG&E SERVICE TRENCH DETAIL 1

NOTES:

- 1. PROVIDE BACKFILL (SAND OR NATIVE SOIL) CONTAINING NOT MORE THAN OCCASIONAL ROUNDED ROCKS LESS THAN 1/2 INCH IN DIAMETER 4 INCHES ABOVE ALL FACILITIES WITHIN THE TRENCH AREA.
- 2. ENSURE BACKFILL AND COMPACTION MEET ANY APPLICABLE PG&E, FEDERAL, STATE OR LOCAL REQUIREMENTS.
- 3. THE DEPTHS AND SEPARATION SHOWN ARE MINIMUMS. VARIANCES MAYBE REQUIRED IF INSTALLING LARGER—DIAMETER FACILITIES. GAS FACILITIES SHALL CONFORM TO THE PROVISIONS OF GENERAL ORDER 112E AND ELECTRIC FACILITIES TO THE PROVISIONS OF GENERAL ORDER 128.
- 4. PROVIDE ADDITIONAL DEPTH TO MAINTAIN THE REQUIRED SEPARARTION AND COVER IF GAS FACILITIES CROSS ELECTRIC, TELEPHONE OR CABLE TELEVISION FACILITIES.
- 5. ALTHOUGH SPACING BETWEEN SECONDARY, TELEPHONE AND CABLE TELEVISION IS RANDOM, ENSURE A 4 INCH CLEARANCE IS MAINTAINED BETWEEN THE NEAREST OF GROUPED FACILITIES AND GAS SERVICE. SEE TABLE 2-1 FOR COVER AND CLEARANCE REQUIREMENTS.
- 6. PRIVIDE CLEARANCE BETWEEN GROUPED FACILITIES TO ALLOW BACKFILL MATERIAL TO FLOW BETWEEN AND UNDERNEATH FACILITIES.

TRAFFIC NOTES:

A TRAFFIC PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO CITY OF HAYWARD "CONSTRUCTION MANAGEMENT & INSPECTION DIVISION" FOR REVIEW AT LEAST 20 DAYS PRIOR TO COMMENCEMENT OF ANY WORK. AN ENCROACHMENT PERMIT OR PLAN APPROVAL MUST FIRST BE OBTAINED PRIOR TO ANY WORK COMMENCING WITHIN THE COUNTY RIGHT— OF— WAY.

DRAINAGE NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS FOR DRAINAGE SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE CITY OF HAYWARD IMPROVEMENT STANDARDS AND STANDARD CONSTRUCTION SPECIFICATIONS. WHERE DISCREPANCIES EXIST, APPROPRIATE NOTES SHALL BE ADDED TO THE PLANS, TAKING PRECEDENCE OVER THE STANDARD CONSTRUCTION SPECIFICATIONS.
- 2. THE MINIMUM COVER REQUIREMENTS DURING CONSTRUCTION FOR TEMPORARY CONSTRUCTION VEHICLE LOADING SHALL BE 4 FEET FOR METAL AND PLASTIC PIPES AND FOR 3 FEET FOR REINFORCED CONCRETE PIPE.
- 3. THE CONTRACTOR SHALL PLACE THE PROPER STRENGHTH PIPE IF TRENCH CONDITIONS ENCOUNTERED DIFFER FROM THE DESIGN TRENCH.
- **4.** DRAINAGE IN PUBLIC ROW AND DRAINAGE EASEMENTS SHALL CONFORM TO THE FOLLOWING:

STANDARD CONSTRUCTION SPECIFICATIONS.

- DRAINAGE PIPE MATERIAL MATERIAL SAHLL CONFORM TO SECTION 36 AND SECTION 50 (EXCLUDING 50–20), WHICH IS NOT ALLOWED) OF THE STANDARD CONSTRUCTION SPECIFICATION.

 DRAINAGE MANHOLES SHALL CONFORM TO SECTION 39 OF THE
- 5. TESTING OF DRAINAGE SYSTEMS

DRAINAGE IN PUBLIC ROW AND DRAINAGE EASEMENTS SHALL CONFORM TO THE FOLLOWING:

- DRAINAGE PIPES, INCLUDING DRAIN INLET LATERLAS, SHALL BE TESTED IN CONFORMANCE WITH SECTION 38-10 OF THE STANDARD CONSTRUCTION SPECIFICATION.
- STORM DRAIN MANHOLES SHALL BE TESTED IN CONFORMANCE WITH SECTION 39-4.02 OF THE STANDRAD CONSTRUCTION SPECIFICATIONS. STANDARD CONSTRUCTION SPECIFICATIONS.
- 6. RESILIENT CONNECTORS, IN CONFORMANCE WITH SECTION 39–2.02 AND STD DWG 9–7A OF THE STANDARD CONSTRUCTION SPECIFICATIONS, ARE REQUIRED BETWEEN PRE—CAST MANHOLE AND PIPE, AND BETWEEN PRE—CAST DROP INLET AND PIPE. WATER STOPS ARE REQUIRED FOR PIPE TO CAST—IN—PLACE MANHOLE/DROP INLET CONNECTIONS.
- 7. EROSION CONTROL STRUCTURES (STD DWG 9-27) SHALL BE CLASS B CONCRETE, NOT GROUTED COBBLE.
- 8. ALL DRAINAGE INLETS IN PUBLIC ROW AND DRAINAGE EASEMENTS SHALL

 HAVE A PERMANENT STORM DRAIN MESSAGE "NO DUMPING FLOWWS TO

 CREEK" OR OTHER APPROVED MESSAGE CONSISTENT WITH CITY OF HAYWARD

 STANDARD DRAWINGS.
- 9. "OWNER, AT OWNER SOLE COST AND EXPENSE, SHALL MAINTAIN THE PRIVATE DRAINAGE PIPELINE IN GOOD WORKING ORDER AND REPAIR COMMENSURATE WITH THE COUNTY'S STANDARDS FOR SIMILAR DRAINAGE PIPELINES SUCH THAT WATER FLOWS FREELY THROUGH THE SYSTEM AS AND WHEN WEATHER EVENTS OR OTHER SOURCES OF SURFACE WATER RUNOFF OCCUR. OWNER SHALL AT ALL TIMES TAKE ALL NECESSARY ACTION TO KEEP THE DRAINAGE PIPELINE FREE FROM DEBRIS, TRASH, FOLIAGE AND ANY OTHER OBSTRUCTION WHICH MAY DISRUPT, ALTER, IMPEDE OR CHANGE THE FLOW OF WATER. OWNER SHALL ALSO PERFORM ANY RELOCATION OF THE DRAINAGE PIPELINE PURSUANT TO THE STANDARD SPECIFICATIONS OF THE COUNTY SHOULD RELOCATION BE NECCESSARY DUE TO PIPE FAILURE OR BLOCKAGE AS DETERMINED NECESSARY BY THE COUNTY."

SEWER NOTES:

- 1. DIMENSIONS SHOWN ON PLANS ARE TO THE CENTERLINE OF PIPE AND OR MANHOLES, UNI FSS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 48" IN DIAMETER, UNLESS OTHERWISE SHOWN.
 MANHOLES LOCATED OUTSIDE OD PAVED AREAS SHALL HAVE RIM SET TWELVE INCHES (12")
 ABOVE GROUND SURFACE OR TO GRADES AS NOTED.
- 4. MANHOLE VACCUM TESTING PER ASTM C1244-93 IS REQUIRED WITH THE ADDITION OF THE FOLLOWING CONSTRAINT: A MINIMUM OF 9 INCHES OF MERCURY SHALL BE HELD FOR A MINIMUM TIME OF ONE MINIUTE.
- 5. SANITARY SEWER MAINS SHALL BE CONSTRUTED OF EXTRA STRENGHT (VCP) PIPE WITH TYPE II ALTERNATE BEDDING AND BACKFILL, UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR SHALL USE SIX— FOOT (6') PIPE LENGTHS IN CURED SECTIONS. JOINT
 DEFLECTION SHALL COMPLY WITH COUNTY STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
- 7. SERVICE SEWERS SHALL BE CONSTRUCTED PER CITY OF HAYWARD STANDARD DRAWINGS.
 ANY SEWER SERVICE ENTERING A MANHOLE SHALL BE INSTALLED WITH THE INVERT
 ELEVATION OF THE SERVICE PIPE MATCHING THE CROWN ELEVATION OF THE EXIT SEWER
 EXCEPT WHEN AN INTERNAL DROP CONNECTION IS USED. IF THE MANHOLE AT THE END OF A
 CUL—DE—SAC IS CONSTRUCTED WITH A PRECAST BASE, THE INVERT OF ANY SERVICE STUBS
 SHALL BE A MINIMUM OF ONE INCH ABOVE THE INVERT OF THE EXIT PIPE.
- 8. ALTERNATIVE FOR VCP RESIDENTIAL FOUR INCH (4") SERVICE SEWER PIPE IS ACRYLONITRILE—BUTADIENE—STYRENE (ABS) SOLID PIPE. 4" ABS SOLID PIPE AND FITTING SHALL CONFORM TO AND MEET THE REQUIREMENTS OF ASTM DESIGNATION D2661, SDR 18.99 MINIMUM WALL THICKNESS 0.237 INCHES.
- 9. CONSTRUCTION OF A CLEANOUT TO GRADE FOR ALL SEWER SERVICES IS REQUIRED PER STANDARD DRAWING 7-9. CONSTRUCTION OF THE TOP 1' OF THE CLEANOUT RISER MAY BE DELAYED UNTIL THE INSTALLATION OF THE BUILDING SEWER AT THE OPTION OF THE DEVELOPER, EXCEPT WHERE THE WATER MAIN IS TO BE INSTALLED BEHIND SIDEWALK (REFER TO NOTE 10: STANDARD DRAWING 7-5). IF THE CONSTRUCTION OF THE TOP 1' OF THE RISER IS DELAYED, THE LOCATION OF THE SERVICE SHALL ACCURATELY BE STAKED WITH A 4"x 4" POST.
- 10. ANY WATER ENTERING THE SANITARY SEWER SYSTEM TO BE CONSTRUCTED UNDER THESE PLANS SHALL NOT BE DISCHARGE TO THE EXISTING SYSTEM. PLUGS MUST BE INSTALLED IN EXISTING MANHOLES AS NECCESSARY TO PERMIT PUMPING THE NEW SYSTEM CLEAR OF WATER AND DEBRIS PRIOR TO ACCEPTANCE. CARE SHALL BE EXERCISED IN LOCATING PLUGS TO AVOID INTERRUPTING SERVICE CONNECTIONS. MORTAR AND BRICKS OR MECHANICAL DEVICE PLUGS MUST BE USED: INFLATABLE DEVICES ARE NOT SATISFACTORY.
- 11. COUNTY SANITATION DISTRICT 1 REQUIRES THE CONTRACTOR TO VIDEO RECORD ALL SEWER MAINS AND DRAIN LINES FORM SIC INCH (6") TO AND INCLUDING THIRTY SIX INCH (36") DIAMETER IN ACCORDANCE WITH SECTION 38 OF THE ALAMEDA COUNTY STANDARD CONSTRUCTION SPECIFICATIONS. ADDITIONAL INFORMATION AND ASSIGNMENT OF SEWER MANHOLE NUMBERS MAY BE OBTAINED AT THE WATER QUALITY DEPARTMENT CUSTOMER SERVICE OFFICE.

INSPECTION RECORD SHALL BE PROVIDED TO CITY OF HAYWARD WATER QUALITY DIVISION STAFF FOR REVIEW PRIOR TO ACCEPTANCE OF SEWER IMPROVEMENT.

CONSTRUCTION & OPERATIONS NOTES:

- 1. ACCESSIBLE PEDESTRIAN PATH OF TRAVEL SHALL BE MAINTAINED DURING CONSTRUCTION AT ALL TIME.
- 2. ALL EXCAVATION SPOILS SHALL LADED DIRECTLY INTO TRUCKS AND DISPOSE OF AT AN APPROVED DUMPSITE.
- 3. STORAGE OF CCONSTRUCTION MATERIALS AND EQUIPMENT WILL NOT BE ALLOWED IN OR UPON THE PUBLIC RIGHT—OF—WAY. ALL MATERIALS INTENDED FOR USE ON ANY PROJECT SHALL BE OFF LOADED DIRECTLY FROM DELIVERY VEHICLES AND PLACED AS REQUIRED DURING THE COURSE OF CONSTRUCTION. SHOULD THE PERMIT HOLDER OR HIS/HER CCONTRACTORS WISH TO STOCKPILE MATERIALS NEAR THE WORK SITE, THEY SHALL MAKE ARRANGEMENTS IN ADVANCE FOR STORAGE. ALL STORAGE SITES SHALL BE SECURE, INACCESSIBLE TO THE GENERAL PUBLIC AND KEPT FREE OF CONSTRUCTION SPOILS, DEBRIS AND TRASH AT ALL TIMES STORAGE SITES SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEER.
- 4. CONSTRUCTION SITES SHALL BE KEPT CLEAN AT ALL TIMES. AT NO TIME SHALL THE CONTRACTOR OR PERMIT HOLDER BE ALLOWED TO LEAVE THE SITE PRIOR TO THOROUGHLY CLEANING SIDEWALKS, CURBS, GUTTERS, AND STREET SURFACES. CLEANING SHALL BE ACCOMPLISHED BY EITHER HAND OR MACHINE SWEEPING AS REQUIRED. IN NO EVENT SHALL THE CONTRACTOR BE ALLOWED TO FLUSH THE STREETS WITH WATER UNTIL SUCH TIME AS THE AREA HAS BEEN COMPLETELY AND THOROUGHLY SWEPT AND ALL DEBRIS PICKED UP AND PROPERLY DISPOSED OF.
- 5. ALL EXCAVATIONS SHALL BE BACKFILLED AND COMPACTED AT DAY'S END. A MINIMUM OF TWO INCHES OF TEMPORARY PAVING SHALL BE INSTALLED AND COMPACTED BY MECHANICAL MEANS TO PRODUCE A SMOOTH SURFACE FOR PEDESTRIAN AND VEHICULAR TRAFFIC. TRAFFIC PLATES WILL NOT BE ALLOWED EXCEPT AS APPROVED BY THE ENGINEER DURING THE PERMIT APPLICATION PROCESS. INSTALLATION OF PLATES WILL ONLY ALLOWED IF A BONAFIDE EMERGENCY HAS BEEN DECLARED. IN THIS EVENT, PLATES WILL BE ALLOWED PROVIDING THEY ARE ANCHORED EITHER BY WELDING OR PINNED. ALL EDGES SHALL BE SECURED TO PREVENT RATTLING AND MOVEMENT AS WELL AS PROTECTED WITH TEMPORARY ASPHALT (MIN TWO FOOT TAPER). LONG TERM INSTALLATIONS, THOSE IN EXCESS OF FIVE DAYS, WILL BE ALLOWED, IF APPROVED BY THE CITY ENGINEER, PROVIDING THAT EXISITING SURFACES ARE GROUNDED TO ACCEPT PLATE INSTALLATIONS AND PROVIDE FOR A MATCHING SURFACE WHERE PLATE MEETS ROADWAY SURFACE.
- 6. EQUIPMENT SHALL NOT BE STORED ON OR WITHIN THEN PUBLIC RIGHT—OF—WAY WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY ENGINEER. IF PERMITTED, EQUIPMENT SHALL BE SECURED AND LOCKED WITH PROTECTIVE COVERS IN PLACE. ADEQUATE BARRICADES WITH OPERABLE FLASHERS SHALL BE INSTALLED AROUND THE EQUIPMENT AND REMAIN IN WORKING ORDER AT ALL TIMES.
- 7. IN THE EVENT OF NON-COMPLIANCE WITH PERMIT, PROJECT CONDITIONS AND/OR CITY STANDARDS FOR CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY, THE CITY WILL EXERCISE ITS RIGHT TO SUSPEND PROJECT PERMITS OR HALT WORK IN PROGRESS UNTIL SUCH TIME AS THE PERMIT HOLDER OR HIS CONTRACTOR IS IN COMPLIANCE. SHOULD THE CITY HAVE TO OBTAIN OUTSIDE SERVICES FOR CLEANING EQUIPMENT, TRANSPORT SERVICES, TOWING, CONTRACT PERSONNEL OR UTILIZE CITY FORCES FOR CLEANUP, THE CITY WILL BILL FOR ITS SERVICES AND EXPENSES INCLUDING ALL INCIDENTALS AND ADMINISTRATIVE OVERHEAD COSTS.

AIR QUALITY DUST CONTROL:

- ALL CONSTRUCTION PROJECTS ARE REQUIRED TO COMPLY WITH THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT'S (BAAQMD) DUST CONTROL MEASURES. THESE MEASURES ARE LEVIED BY THE ENGINEERING DIVISION AS A CONDITION OF BUILDING PERMIT ISSURANCE AND ARE MONITORED FOR COMPLIANCE BY STAFF AND/OR SPECIAL CITY ENGINEERING AND/OR PLANNING INSPECTORS. THESE MEASURES INCLUDE:
- A) WATER ALL ACTIVE CONSTRUCTION SITES AT LEAST TWICE DAILY.
- B) COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- C) PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT CONSTRUCTION SITES.
- D) SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- E) SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS CONSTRUCTION SITES.
- F) HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE.)
- G) ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSE STOCKPILED MATERIALS.
- H) INSTALL SANDBAGS OR OTHER EROSION—CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

 I) REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
- J) WATERING SHOULD BE USED TO CONTROL DUST GENERATION DURING THE BREAK-UP OF PAVEMENT.
- K) COVER ALL TRUCKS HAULING DEMOLITION DEBRIS FROM THE SITE.
- L) USE DUST-PROOF CHUTES TO LOAD DEBRIS INTO TRUCKS WHENEVER FEASIBLE.
- M) WATER OR COVER STOCKPIKLES OF DEBRIS, SOIL, SAND, OR OTHER MATERIALS THAT CAN BE BLOWN BY THE WIND.
- N) ALL CONSTRUCTION EQUIPTMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPTMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE IN PROPER RUNNING ORDER PRIOR TO OPERATION.
- O) DIESEL POWERED EQUIPMENT SHALL NOT BE LEFT INACTIVE AND IDLING FOR MORE THAN FIVE MINUTES, AND SHALL COMPLY WITH APPLICABLE BAAQMD RULES.
- P) USE ALTERNATIVE FUELED CONSTRUCTION EQUIPMENT, IF POSSIBLE.
- Q) ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH.
- R) POST A VISBLE SIGN WITH THE TELEPHONE NUMBER AND PERSON TO CONTACT AT THE LEAD AGENCY REGARDING DUST COMPLAINTS. THIS PERSON SHALL RESPOND AND TAKE CORRECTIVE ACTION WITHIN 24 HOURS. THE AIR DISTRICT PHONE NUMBER SHALL ALSO BE VISIBLE TO ENSURE COMPLIANCE WITH APPLICABLE REGUALTIONS.

DESIGNER



RP ASSOCIATES, INC

CONSULTING ENGINEER'S

140 MAYHEW WAY, SUITE 507 PLEASANT HILL, CA 94523 TEL. (415) 863-9647 FAX (415) 864-7547 EMAIL - Raman@rpace.com

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ARCHITECT

RICHARD JANZEN

6812 PASEO ROBLES DR OAKLAND, CA 94611

OWNER

CONAN ZHANG

26446 PARKSIDE DRIVE, HAYWARD, CA 94542

PROJECT TITLE

ZHANG RESIDENCE

26446 PARKSIDE DRIVE HAYWARD, CA 94542

CEAL



Date Signed: FEB. 06, 2017

SHEET CONTENT

NOTES

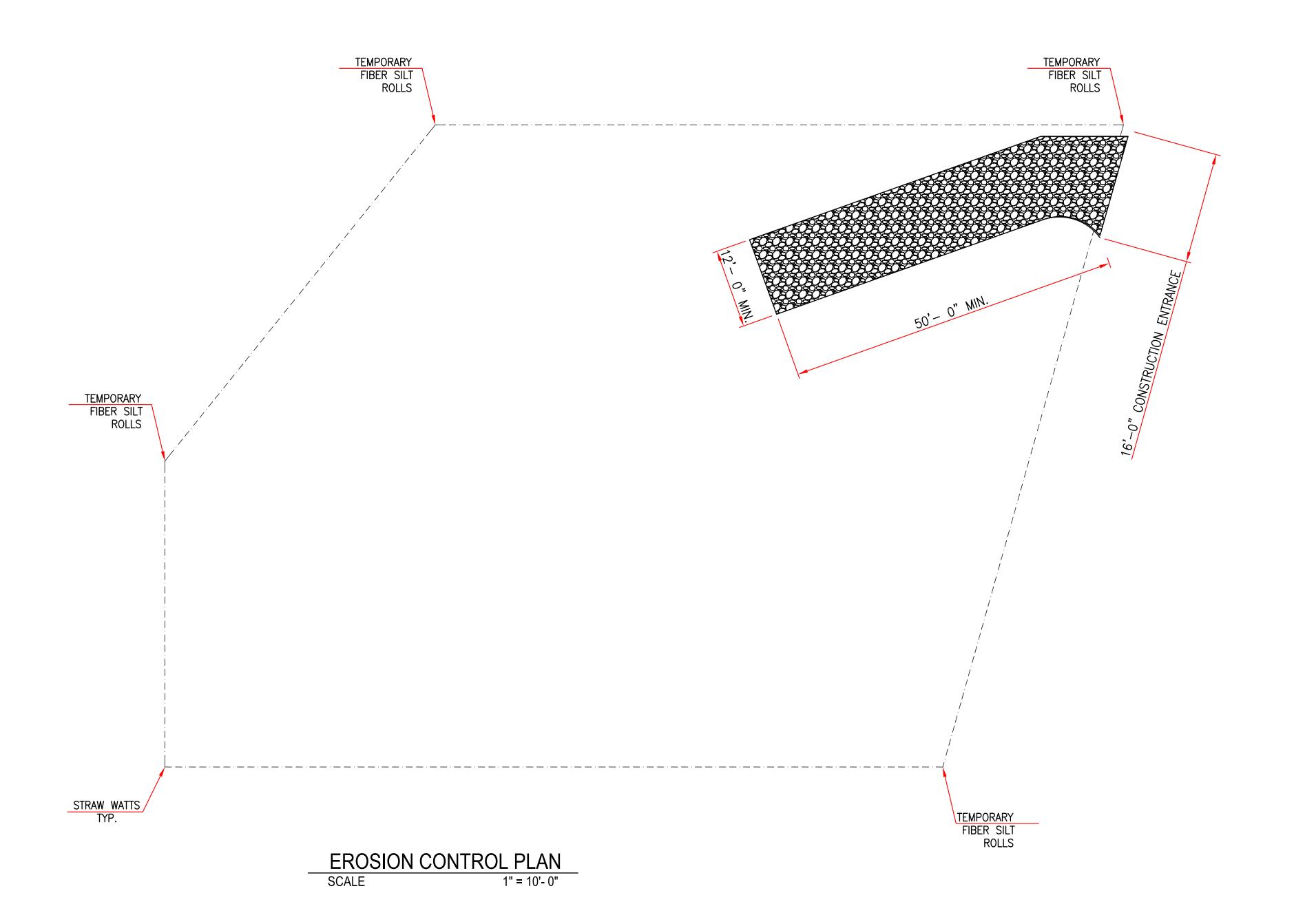
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PROJECT NO. SHEET NO.



EROSION AND SEDIMENT CONTROL NOTES:

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CITY OF HAYWARD IMPROVEMENT STANDARDS, CURRENT EDITION, AND THE CITY OF HAYWARD EROSION AND SEDIMENT CONTROL GUIDELINES DATED NOVEMBER 2014.

2. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL INSTALLED AND MAINTAINED DURING WET SEASON (OCTOBER 1 THROUGH APRIL 30) SEDIMENT CONTROL (BMP'S) SHALL BE INSTALLED AND MAINTAINED ALL YEAR.

- ALL DRAINAGE INLETS IMMEDIATELY DOWSTREAM OF THE WORK AREAS AND WITHIN THE WORK AREAS SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND, INLET FILTER BAGS SHALL BE REMOVED FROM THE DRAINAGE INLETS UPON ACCEPTANCE OF THE PUBLIC IMPROVEMENTS BY THE COUNTY.
- ALL AREAS DISTURBED DURING CONSTRUCTION BY GRADING, TRENCHING OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30), HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15, HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD.
- SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING, SEDIMENT CONTROL BMP'S, SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
- SEDIMENT CONTROL BMP'S SHALL BE PLACED ALONG THE PROTECTED PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED YEAR ROUND UNTIL CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
- EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT SHALL BE IN SUBSTANTIAL COMPLIANCE AT ALL TIMES WITH STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH THE STATE OF CALIFORNIA GENERAL CONSTRUCTION PERMIT. THIS PERMIT REQUIRES THAT THE SWPPP BE KEPT UP TO DATE TO REFLECT THE CHANGING SITE CONDITIONS AND THE SWPPP IS TO BE AVAILABLE ON SITE AT ALL TIMES FOR REVIEW BY STATE AND LOCAL INSPECTORS.
- 8. EFFECTIVE EROSION CONTROL BMP'S SHALL BE IN PLACE PRIOR TO ANY STORM EVENTS.

CONSTRUCTION NOTES:

- 1. ALL DRAINAGE INLETS IN PUBLIC "ROW" AND DRAINAGE EASEMNETS SHALL HAVE A PERMANENT MESSAGE "NO DUMPING-FLOWS TO CREEK" OR OTHER APPROVED MESSAGE CONSISTENT WITH SECTION 9-14G AND STANDARD DRAWINGS 11-10B OF THE CITY OF HAYWARD IMPROVEMENT STANDARDS.
- 2. REFER TO SITE CONSTRUCTION PLANS (DESIGNED BY RP ASSOCIATES, INC.) FOR
- 3. POST CONSTRUCTION PHASE- ALL DISTURED SOIL AREAS WILL BE STABILIZED WITH HARDSCAPE OR LANDSCAPING.
- 4. ALL ON SITE ROUTINE MAINTENANCE, FUELING AND WASHING OF VEHICLES AND EQUIPMENT SHALL BE CARRIED OUT IN LOCATIONS AWAY FROM PROTEDTED WATER WAYS AND STORM DRAINS. THE MAINTENANCE AREAA MUST BE PORPERLY CONT-AINED BY EARTHEN-BERMS, SANDBAGS OR OTHER BMP'S AS DEPICTED IN THE CASQA BMP SHEETS (SHEET NS-8, ATTACHMENT B), SO THAT SPILS CAM IMMEDIATELY DET-AINED AND REMEDIATED.
- 5. ALL CONSTRUCTION MATERIALS WILL BE STORED AT THE STAGING AREA. PROPER USE, STORAGE AND MAINTENACE OF POTENTIAL POOLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES NEEDS TO BE USED. MATERIALS THAT COULD POTENTIALLY \POLLUTE RUNOFF WILL BE STORED AND MAINTAINED ACCORDING TO LACAL, STATE AND FEDERAL REGULATIONS. BMP'S SHALL BE USED TO PREVENT AND OR ELIMINATE POTENTIAL POLLUTANTS FROM REACHING PROTECTED WATER FEATURES AND STORM WATER DRAINS. REFER TO CASQA BMP SHEET NS-10 IN ATTACHMENT B FOR TYPICAL EXAMPLES OF SUCH BMP'S.
- 6. ESTABLISHING DESIGNATED ON-SITE COVERED WASTE COLLECTION AREAS AND THE DAILY COLLECTION OF REFUSE WILL MAXIMIZE THE PREVENTION AND REDUCTION OF POLLUTANTS. THE PORPER TRAINING OF ALL EMPLOYEES AND SUBCONTRACTORS. SHALL BE IMPLEMENTED IN ORDER TO INFORM ALL PARTIES ABOUT PROPER HANDLING USE AND DISPOSAL OF MATERIALS DEEMED TO BE DELETERIOUS TO HUMAN HEALTH OR THE ENVIRONMENT. SOME OF THESE MATERIALS MAY INCLUDE, BUT ARE LIMITED TO, PETROLEUM PRODUCTS SUCH AS OILS, FUELS GREASE AND HEBIRCIDES AND PESTICIDES. REFER TO CASQA BMP SHEETS WM-1, WM-2, WM-4, WM-5, WM-6 AND WM-7 (IN ATTACHMENT B) FOR SPECIFIC BMP's MEASURES REGARDING PROPER MATERIAL AND WASTE MANAGEMENT.
- 7. DUST CONTROL MEASURES ARE TO BE PROVIDED DURING ANY GRADING OR EARTH MOVING ACTIVITIES AND FOR ALL FILL PILES, AND UNSTABILIZED EXPOSED SOLIS. THE APPLICATION OF WATER VIA WATER TRUCK IS A TYPICAL DUST CONTROL MEASURE. THIS MEHOD TYPICALLY REQUIRES REAPPLICATION AT A RECOMMENDED RATE OF APPROXIMATELY 0.125 GAL/ YD2 EVERY 20 TO 30 MINUTES. CAUTION MUST BE TAKEN PREVENT WATER APPLICATION IN EXCESS OF SOIL ADSORPTION RATES WHICH COULD RESULT IN SEDIMENT-LADEN RUNOFF BEING DEPOSITED IN UNWANTED AREAS, REFER CASQA BMP SHEETA (ATTACHMENT B) FOR ADDITIONAL INFORMATION ON PROPER WIND EROSION CONTROL PRACTICES.
- 8. DETAILED DESIGN, INSTALLATION AND MAINTENANCE PROCEDURES FOR TYPICAL CONSTRUCTION SITE BMP's ARE INCLUDED IN ATTACHMENT B (CALIFORNIA STORM WATER QUALITY ASSOCIATION - STORMWATER BMP SHEETS).

CONTAINMENT/ FILTRATION NOTES:

1. DUE TO THE SMALL SIZE OF THE SITE AND EXTENSIVE EROSION AND SEDIMENT CONTROL PLAN, CONTAINMENT AND FILTRATION IS NOT ANTICIPATED TO BE USE AT THE SITE. ALTHOUGH CONTAINMENT AND FILTRATION IS NOT EXPECTED TO BE NEEDED, IF THE PLANNED EROSION AND SEDIMENT CONTROL MEASURES DO NOT PROVIDE ADEQUATE PROTECTION FOR REDUCING SEDIMENT CONTA-MINATED RUNOFF, CONTAINMENT FEATURES AND FILTRATION MAY BE NEEDED TO REDUCE SEDIMENT FROM CONSTRUCTION SITE RUNOFF.

2. IF IT IS NEEDED, THE EXACT CONTAINMENT AND CONVEYANCE STRATEGY TO BE USED SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. 3. IF CONTAINED STORM WATER DOES NOT MEET BASIN PLAN STANDARDS (SEE

TURBIDITY NOTE), SECONDARY FILTRATION. (i.e. DIRT FILTER BAG, SAND MEDIA FILTER, ETC.) MAY BE USED. 4. IF SECONDARY FILTRATION DOES NOT RESULT IN WATER QUALITY THAT IS WITHIN BASIN PLAN STANDARDS, ADVANCED FILTRATION (USING CHEMICAL ADDITIVES)

MAY BE NECESSARY TO MEET WATER QUALITY STANDARDS FOR STORM WATER RUNOFF PRIOR TO DISCHARGE. 5. ADDITIONALLY, DURING GRADING, BERMS AND OR DIVERSION DITCHES MAY BE USED TO DIVERT STORM WATER RUN- ON AWAY FROM THE FUTURE POOL

AND OPEN UTILITY TRENCHES IF NECESSARY. ALL STORM WATER WHICH COLLECTS IN THE FUTURE POOL OR UTILITY TRENCHES SHALL FOLLOW THE STEPS ABOVE.

TURBIDITY NOTES:

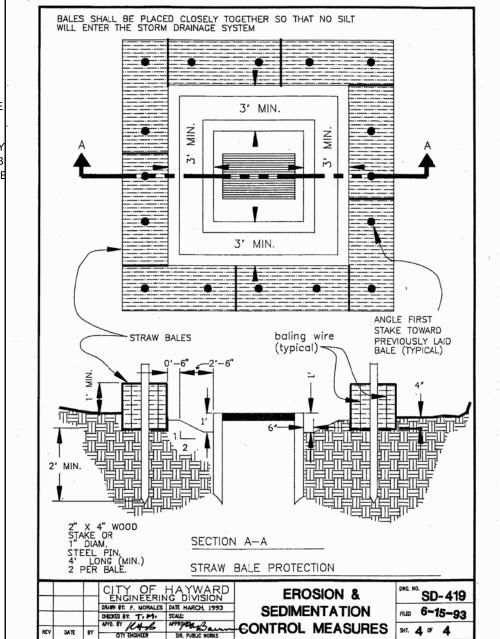
TURBIDITY LIMITS OF SITE RUNOFF:

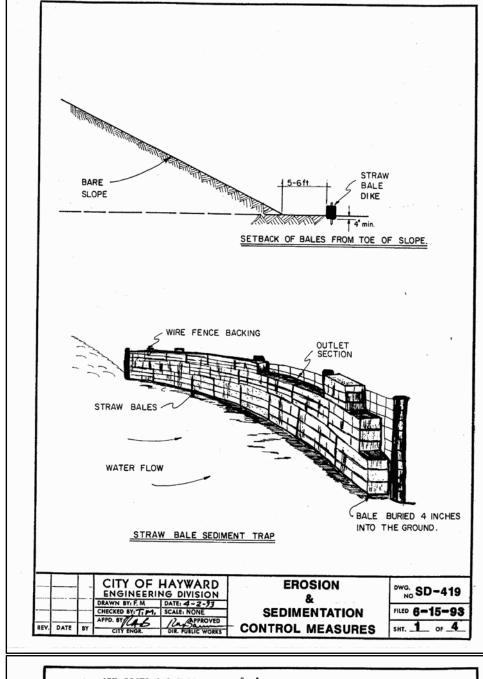
SEDIMENT-LADEN WATER SHALL NOT BE DISCHARGED FROM THE SITE AND/ OR INTO ADJACENT WETLANDS OR WATER FEATURES. THE REGIONAL WATER QUALITY CONTROL BOARD USES THE CRITERIA, AS OUTLINED IN THE BASIN PLAN FOR CONSTRUCTION SITE RUNOFF WATER QUALITY, IN DETERMINING WHETHER CONTAINED RUNOFF CAN BE DISCHARGE INTO MUNICIPAL STORM WATER SYSTEM. THE BASIN PLAN STIPULATES THAT WATERS SHALL BE FREE OF CHANGES IN TURBIDITY THAT CAUSE NUISANCE OR ADVERSELY AFFECT THE BENEFICIAL USES. INCREASE IN TURBIDITY SHALL NOT EXCEED THE FOLLOWING LIMITS:

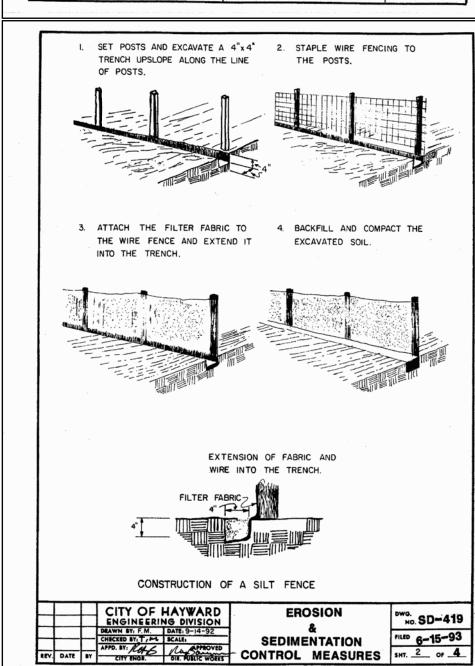
* WHERE NATURAL TURBIDITY IS BETWEEN 0 AND 5 NEPHELOMETRIC TURBIDITY UNITS (NTUs) INCREASE SHALL NOT EXCEED 1 NTU. * WHERE NATURAL TURBIDITY IS BETWEEN 5 AND 50 NEPHELOMETRIC TURBIDITY UNITS (NTUs) INCREASES SHALL NOT EXCEED 20 PERCENT.

* WHERE NATURAL TURBIDITY IS BETWEEN 50 AND 100 NEPHELOMETRIC TURBIDITY UNITS (NTUs) INCREASES SHALL NOT EXCEED 10 NTUs. * WHERE NATURAL TURBIDITY IS GREATER THAN 100 NEPHELOMETRIC TURBIDITY UNITS (NTUs) INCREASES SHALL NOT EXCEED 10 PERCENT.

THE REGIONAL BOARD RECOMMENDS THAT A SAMPLE OF UNCONTAMINATED (BACKGROUND) STORM WATER BE COLLECTED FROM THE RECEIVING WATER BODY FOR COMPARISON WITH SAMPLES COLLECTED FROM STORM WATER RUNOFF, WHILE SEDIMENT CONTAMINATION CAN BE DETECTED VISUALLY, THE USE OF A TURBIDITY WATER METER ALLOWS FOR A MORE ACCURATE DETER-MINATION OF CONCENTRATION. ADDITIONAL BMPs SHALL BE APPLIED TO THE SITE (IN ADDITION TO THE BMPs SPECIFIED ON THE SWPP MAP) AS NECESSARY TO COMPLY WITH THE WATER QUALITY LIMITS. SECONDARY FILTRATION MAY B NECESSARY TO REMOVE FINE PARTICLES SUCH AS CLAYS, FROM STORM WATE RUNOFF AND SEDIMENT BASINS AND IS A RECOGNIZED BAT (BEST AVAILABLE TECHNOLOGY) BY THE REGIONAL WATER QUALITY CONTROL BOARD.







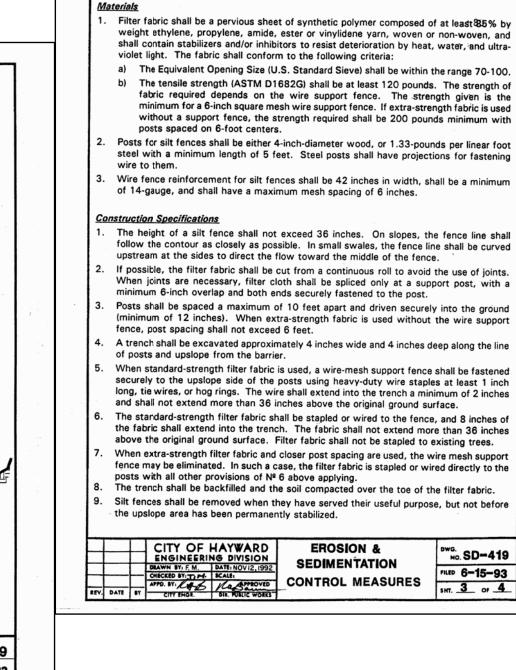
EROSION &

SEDIMENTATION

CONTROL MEASURES

DWG. SD-419

FILED 6-15-93



SPECIFICATIONS FOR SILT FENCE



RICHARD JANZEN

6812 PASEO ROBLES DR. OAKLAND, CA 94611

OWNER

CONAN ZHANG

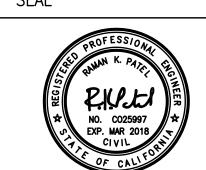
26446 PARKSIDE DRIVE, HAYWARD, CA 94542

PROJECT TITLE

ZHANG

26446 PARKSIDE DRIVE HAYWARD, CA 94542

SEAL



Date Signed: FEB. 06, 2017

SHEET CONTENT

EROSION CONTROL PLAN

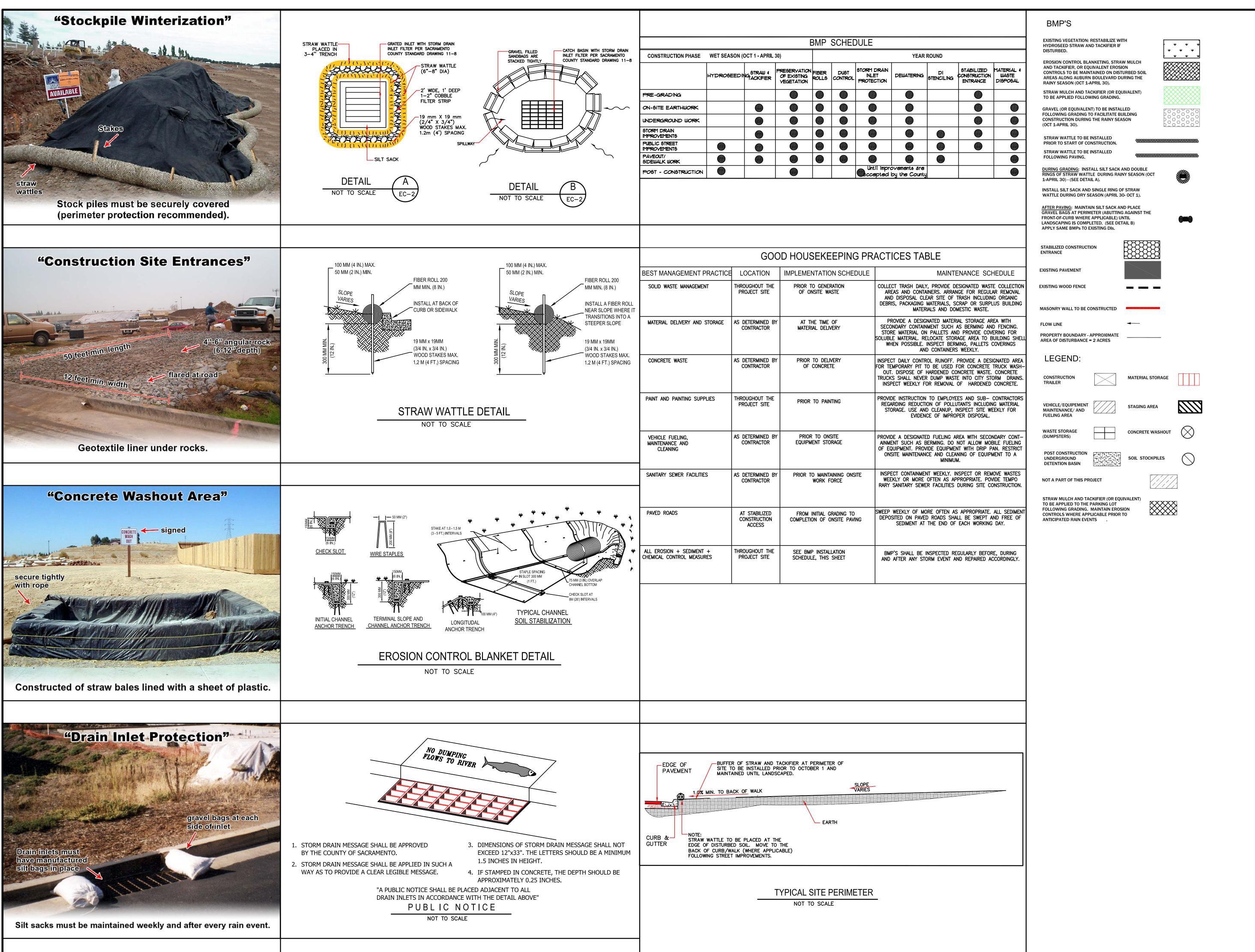
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DRAWN BY UPA H

CHECKED BY RAMAN PATEL

PROJECT NO. || SHEET NO.



DESIGNER

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PROJECT TITLE

ZHANG RESIDENCE

26446 PARKSIDE DRIVE, HAYWARD, CA 94542

SEAL



Date Signed: FEB. 06, 2017

SHEET CONTENT

EROSION CONTROL DETAILS AND NOTES

DATE	ISSUED FOR	BY
02-06-17	PERMIT	RP
SCALE	AS NOTED	
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CHECKED BY RAMAN PATEL

DRAWN BY UPA H

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