

HIGHLAND ESTATES - LOT 10 COBBLEHILL PLACE

COUNTY OF SAN MATEO, CALIFORNIA

EARTHWORK

CUT	770 CY
FILL	310 CY
NET	460 CY CUT

EARTHWORK NOTES:

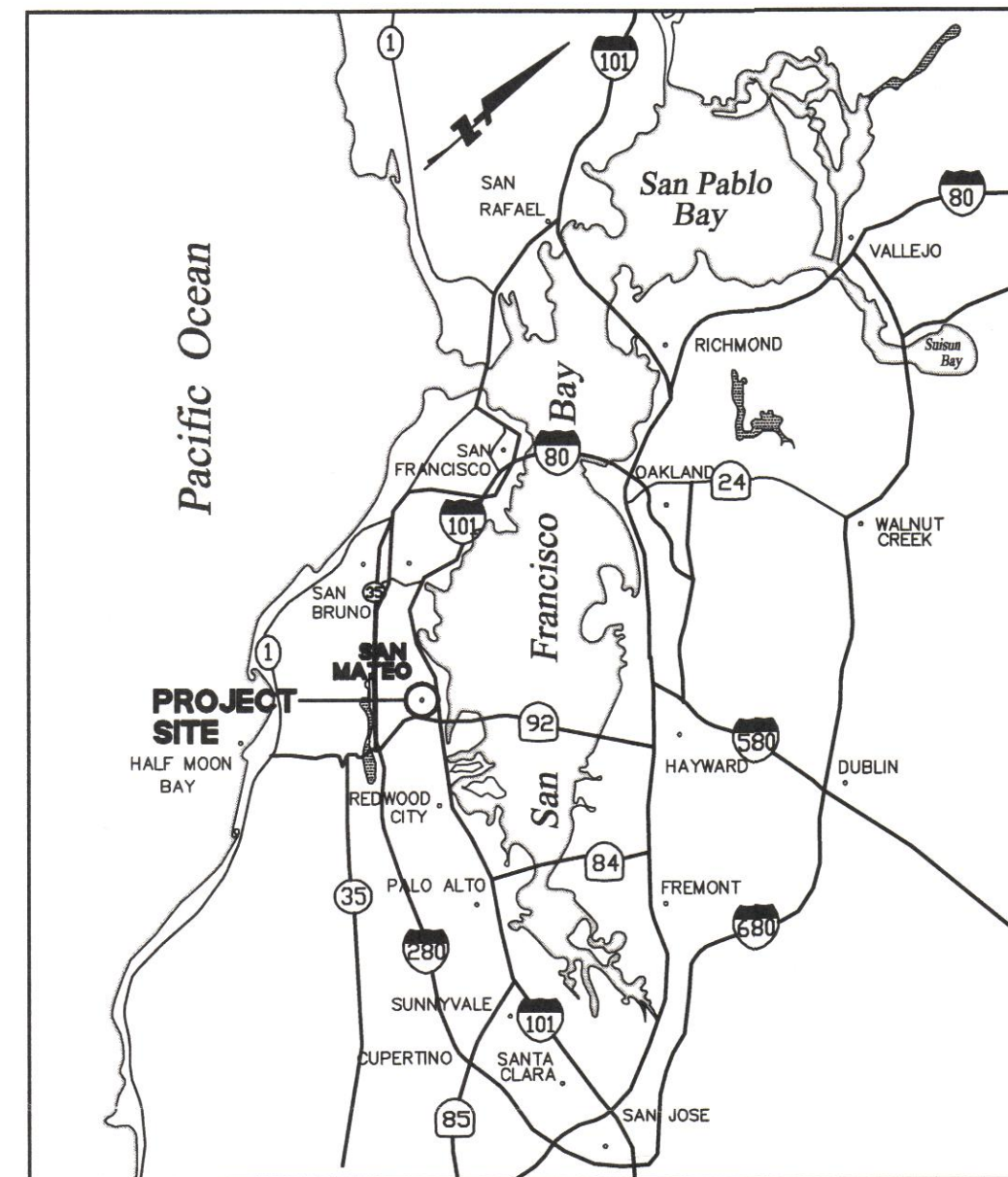
- THE EARTHWORK QUANTITIES SHOWN ABOVE ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPPINGS.
 - THE UNIT PAD SECTION IS ASSUMED TO BE A 12" THICK CONCRETE SECTION.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE FACTORS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SOIL STABILIZATION FACTORS AND LANDSCAPING PLANTING SOILS.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR RETAINING WALLS AND BUILDING FOOTINGS AND BACKFILL.
 - EARTHWORK QUANTITIES DO NOT ACCOUNT FOR OVER-EXCAVATION AND COMPACTION OF UNDOCUMENTED FILL IN THE DRIVEWAY AND GARAGE AREAS.
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND INDEPENDENT CALCULATIONS.

LEGEND

EXISTING	
	EXISTING PROPERTY LINE BOUNDARY
	EXISTING SANITARY SEWER W/MANHOLE
	EXISTING STORM DRAIN W/ MANHOLE
	EXISTING WATER LINE
	EXISTING CATCH BASIN
	EXISTING GAS LINE
ALL UTILITIES ARE APPROXIMATELY LOCATED	
PROPOSED	
	PROPOSED PROPERTY LINE BOUNDARY
	SANITARY SEWER W/ MANHOLE
	STORM DRAIN W/ MANHOLE & CATCH BASIN
	WATER LINE W/ FIRE HYDRANT
	GAS MAIN
	UNDERGROUND ELECTRIC, TELEPHONE, & C.A.T.V.
	STORM DRAIN EASEMENT
	SANITARY SEWER EASEMENT
	EXISTING TREE & ELEVATION (TREE NO. REFERS TO TREE IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP))
	INDICATES TREE TO BE REMOVED
	LEATHERWOOD BUSH
	EUCALYPTUS TREE
	POINT OF CONNECTION
	FIRE DEFENSE ZONE
	FLOW-THROUGH PLANTER, PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

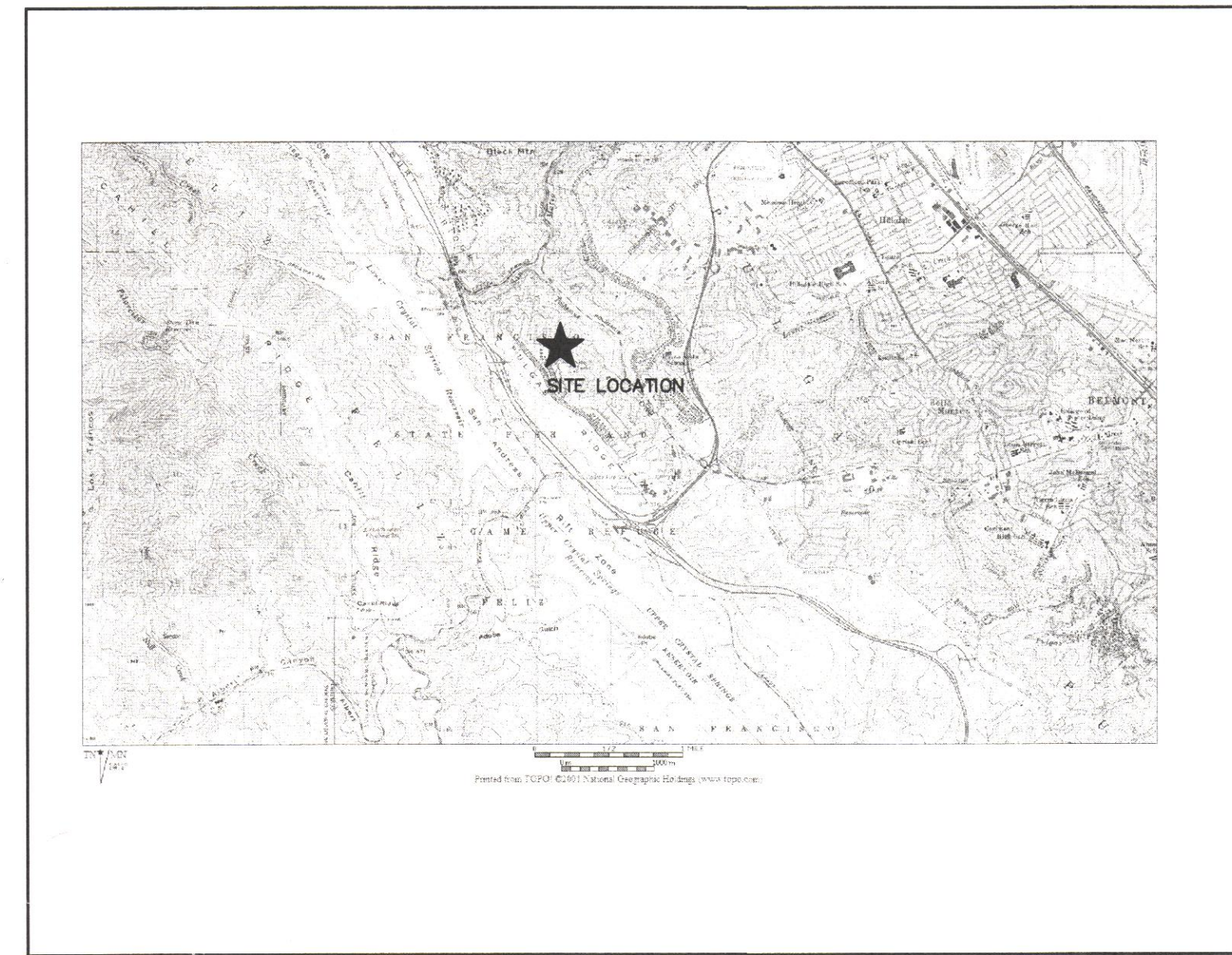
ABBREVIATIONS

AC	ASPHALTIC CONCRETE	L	LENGTH
BEG	BEGINNING	LF	LINEAR FEET
BL	BAY LAUREL	LG	LIP OF GUTTER
BLDG COR	BUILDING CORNER	NIC	NOT IN CONTRACT
BOT	BOTTOM	O	OAK TREE
BOW	GRADE AT BOTTOM OF WALL	P	PEPPER TREE
BW	BACK OF WALK	PD	PLANNED DEVELOPMENT
CB	CATCH BASIN	PI	PINE TREE
CL	CENTERLINE	PUE	PUBLIC UTILITY EASEMENT
CLF	CHAIN LINK FENCE	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
CO	CLEANOUT	RDW	REDWOOD TREE
CONC	CONCRETE	RET WALL	RETAINING WALL
CU	COPPER	ROW	RIGHT OF WAY
DG	DECOMPOSED GRANITE	RPB	REDUCED PRESSURE BACKFLOW
DI	DRAIN INLET	RWL	RAIN WATER LEADER
DW	DOMESTIC WATER	S	SLOPE
EG	EXISTING GRADE	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDCB	STORM DRAIN CATCH BASIN
EUC	EUCALYPTUS TREE	SDCO	STORM DRAIN CLEANOUT
EX, (E)	EXISTING	SDDI	STORM DRAIN DROP INLET
FC, FOC	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
FF	FINISH FLOOR	SS	SANITARY SEWER
FG	FINISH GRADE	SSCO	SANITARY SEWER CLEAN OUT
FL	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
FNC	FENCE	T	TREE
FTP	FLOW THROUGH PLANTER	TC	TOP OF CURB
FW	FIRE WATER	TOE	TOE OF SLOPE
GB	GRADE BREAK	TOP	TOP OF SLOPE
GFF	GARAGE FINISH FLOOR	TOW	TOP OF WALL
GM	GAS METER	TYP	TYPICAL
GND	GROUND SHOT	UB	UTILITY BOX
GR	GRATE	VC	VERTICAL CURVE
GRAVEL	EDGE OF GRAVEL ROAD	VCP	VITRIFIED CLAY PIPE
GW	GUY WIRE	W	WATER
INV	INVERT	WM	WATER METER
JP	JOINT POLE	WV	WATER VALVE



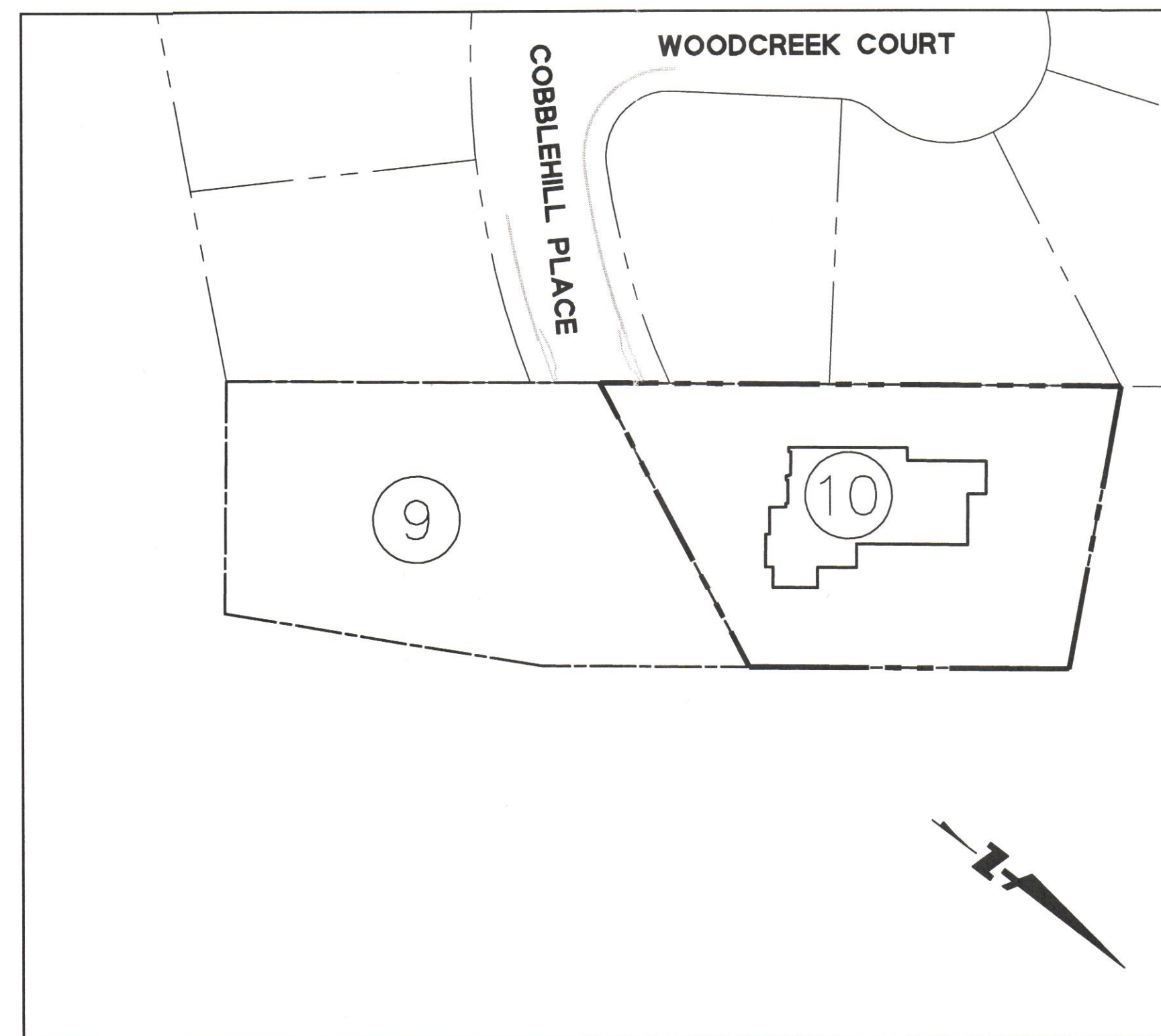
VICINITY MAP

NTS



LOCATION MAP

NTS



SITE PLAN

SCALE: 1" = 50'

PROJECT DATA

SITE AREA:	17,994 SF
EXISTING LAND USE:	UNDEVELOPED LAND
PROPOSED USE:	RESIDENTIAL (LOT 10)
EXISTING ZONE:	RMD - RESOURCE MANAGEMENT DISTRICT
PROPOSED ZONE:	R-1
PROPOSED USE:	1. RESIDENTIAL LOT
OWNER:	TICONDEROGA PARTNERS, A CALIFORNIA LIMITED LIABILITY CORPORATION C/O THE CHAMBERLAIN GROUP 655 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595-5582 ATTN: JACK CHAMBERLAIN
DEVELOPER:	THE CHAMBERLAIN GROUP 655 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595-5582 ATTN: JACK CHAMBERLAIN
CIVIL ENGINEER:	BKF ENGINEERS 255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300
GEOTECHNICAL ENGINEER:	CORNERSTONE EARTH GROUP 1259 OAKMEAD PARKWAY SUNNYVALE, CA 94085 (408) 245-4600
WATER SUPPLY:	CAL WATER SERVICE 341 N. DELAWARE STREET SAN MATEO, CA 94401-1808 (650) 343-1808
SEWAGE DISPOSAL:	CITY OF SAN MATEO & CRYSTAL SPRINGS COUNTY SANITATION DISTRICT
GAS & ELECTRIC TELEPHONE:	PG&E AT&T
FIRE PROTECTION:	CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION
CABLE:	COMCAST
STORM DRAINAGE:	COUNTY OF SAN MATEO CITY OF SAN MATEO
TOPOGRAPHIC BASE MAP:	AERO-GEODIC CORP. JOB NO. 950168 DATE OF PHOTOGRAPHY 9/18/87
EROSION CONTROL POINT OF CONTACT:	NOEL CHAMBERLAIN, NEXGEN BUILDERS INC. 225 DEMETER STREET EAST PALO ALTO, CA 94303 PHONE #: (650) 322-5800 CELL #: (650) 444-3089 EMAIL: noel@nexgenbuilders.com

SHEET INDEX

SHEET NO	DESCRIPTION
C10.10	TITLE SHEET
C10.20	GENERAL NOTES
C10.30	SITE AND CLEARING, CONSTRUCTION AND GRADING PLANS
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C10.80	LOGISTICS PLAN
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C10.93	GEOTECHNICAL MITIGATION CROSS SECTIONS (LOTS 9 AND 10)

ENGINEER'S STATEMENT

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED UNDER MY DIRECTION.

Roland N.V. Haga October 8, 2018
 ROLAND N.V. HAGA
 P.E. NO. 43971
 BKF ENGINEERS
 DATE

ENGINEER OF WORK

I HEREBY DECLARE THAT I AM THE CIVIL ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE STATE OF CALIFORNIA, BUSINESS & PROFESSIONAL CODES, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

Jonathan Tang October 8, 2018
 JONATHAN TANG
 P.E. NO. 67726
 BKF ENGINEERS
 DATE

REVIEWED FOR CODE COMPLIANCE
 This review does not authorize violation of State or County building laws.

NOV 13 2019
 SAN MATEO CO. BLDG. INSP. DIV.
John Brown



ENGINEERS / SURVEYORS / PLANNERS
 CALIFORNIA

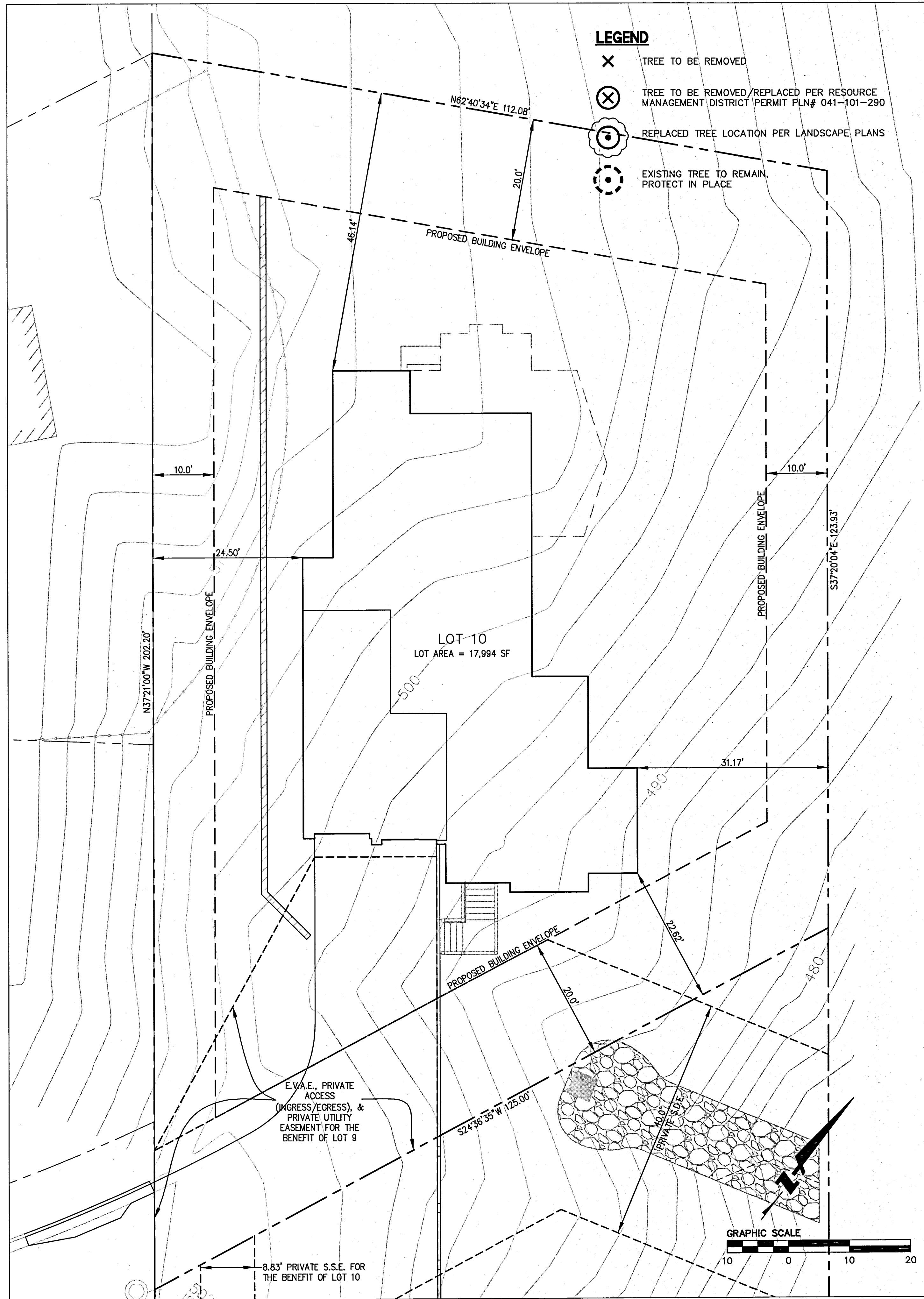
HIGHLAND ESTATES
 LOT 10 IMPROVEMENT PLANS
 TITLE SHEET
 SAN MATEO COUNTY
 CITY OF SAN MATEO

Revisions

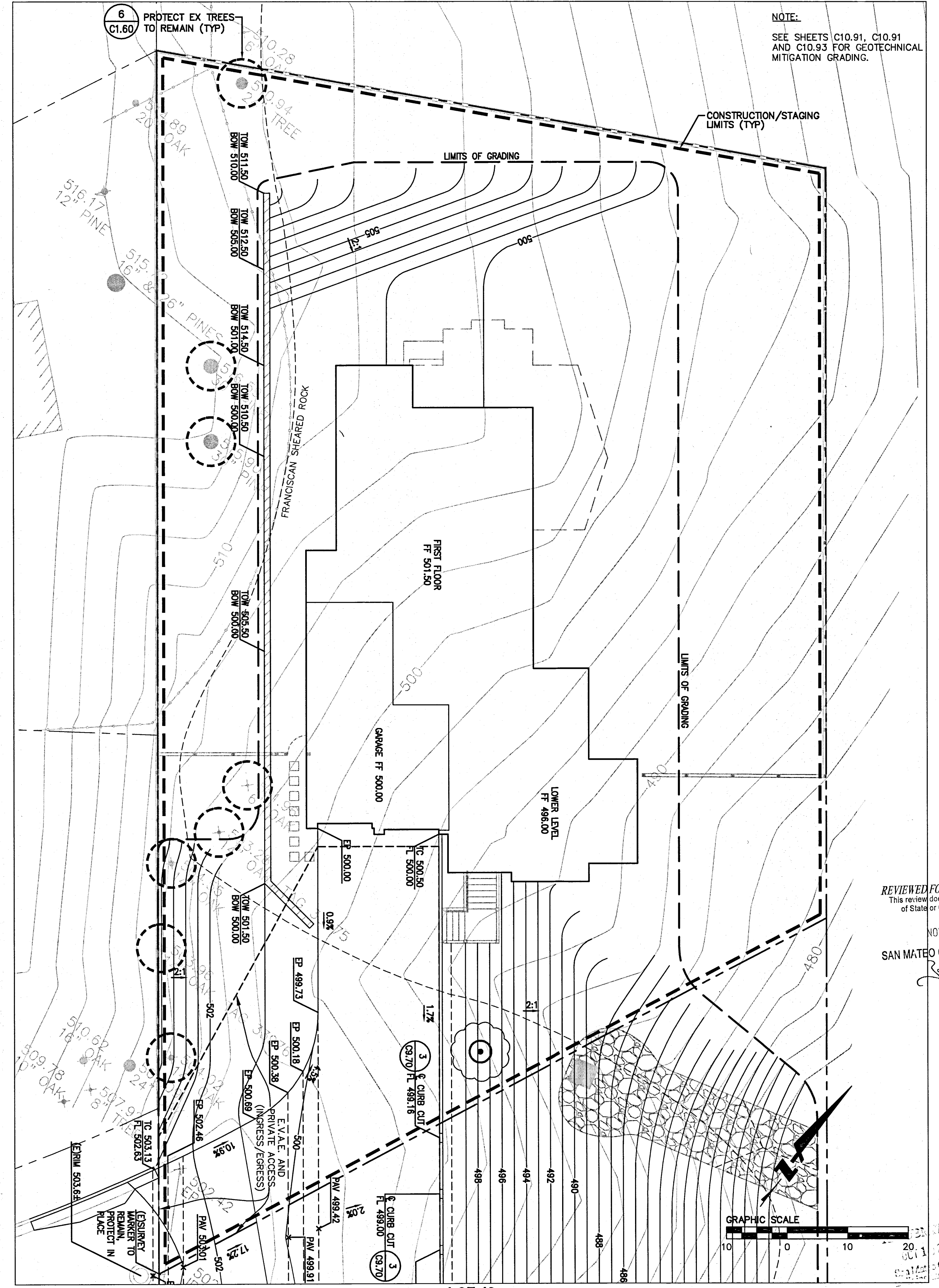
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1	10/8/2018	NTS	JT	MD	RH/JT		95088-20

Sheet Number: **C10.10**
OF

DRAWING NAME: K:\Projects\950168\CD\Lot_10\C10.30-HECDSP.dwg
 PLOT DATE: 10-09-18 PLOTTED BY: holt



LOT 10 SITE PLAN
 SCALE: 1"=10'

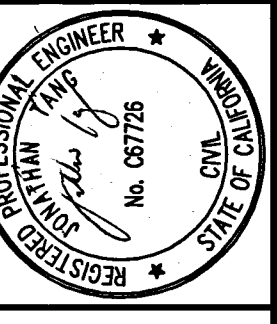
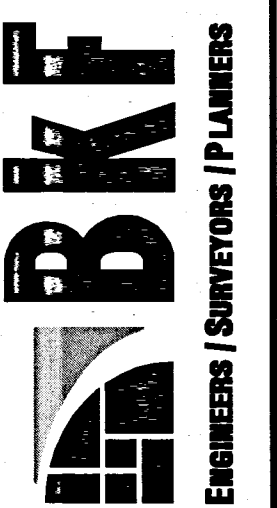


LOT 10 CLEARING, CONSTRUCTION, AND GRADING PLAN
 SCALE: 1"=10'

REVIEWED FOR CODE COMPLIANCE
 This review does not constitute an endorsement or approval by the State or County of any project or activity described herein.

NOV 13 2019
 SAN MATEO CO. BLDG. DIV.

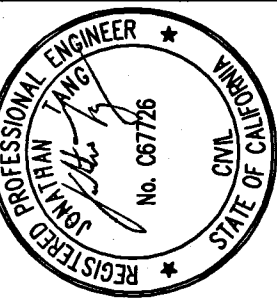
255 SHORELINE DRIVE, SUITE 200
 REDWOOD CITY, CA 94065
 PHONE: (650) 482-6500
 FAX: (650) 482-6599



HIGHLAND ESTATES
 LOT 10 IMPROVEMENT PLANS
 SITE & CLEARING, CONSTRUCTION AND GRADING PLANS
 SAN MATEO COUNTY CALIFORNIA

No.	Revisions

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 Drawn: LE
 Approved: RH/JT
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 Sheet Number: **C10.30**



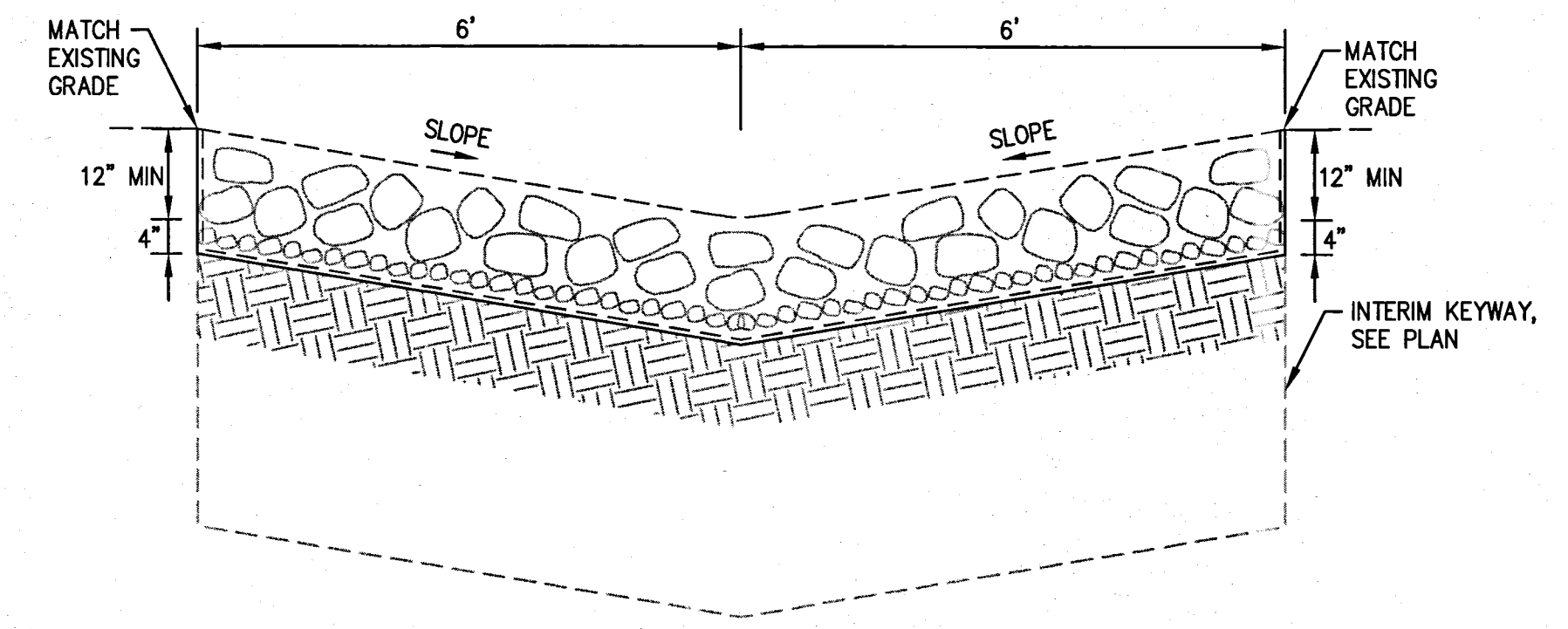
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HIGHLAND ESTATES
 LOT 10 IMPROVEMENT PLANS
 UTILITY PLAN AND CROSS SECTION

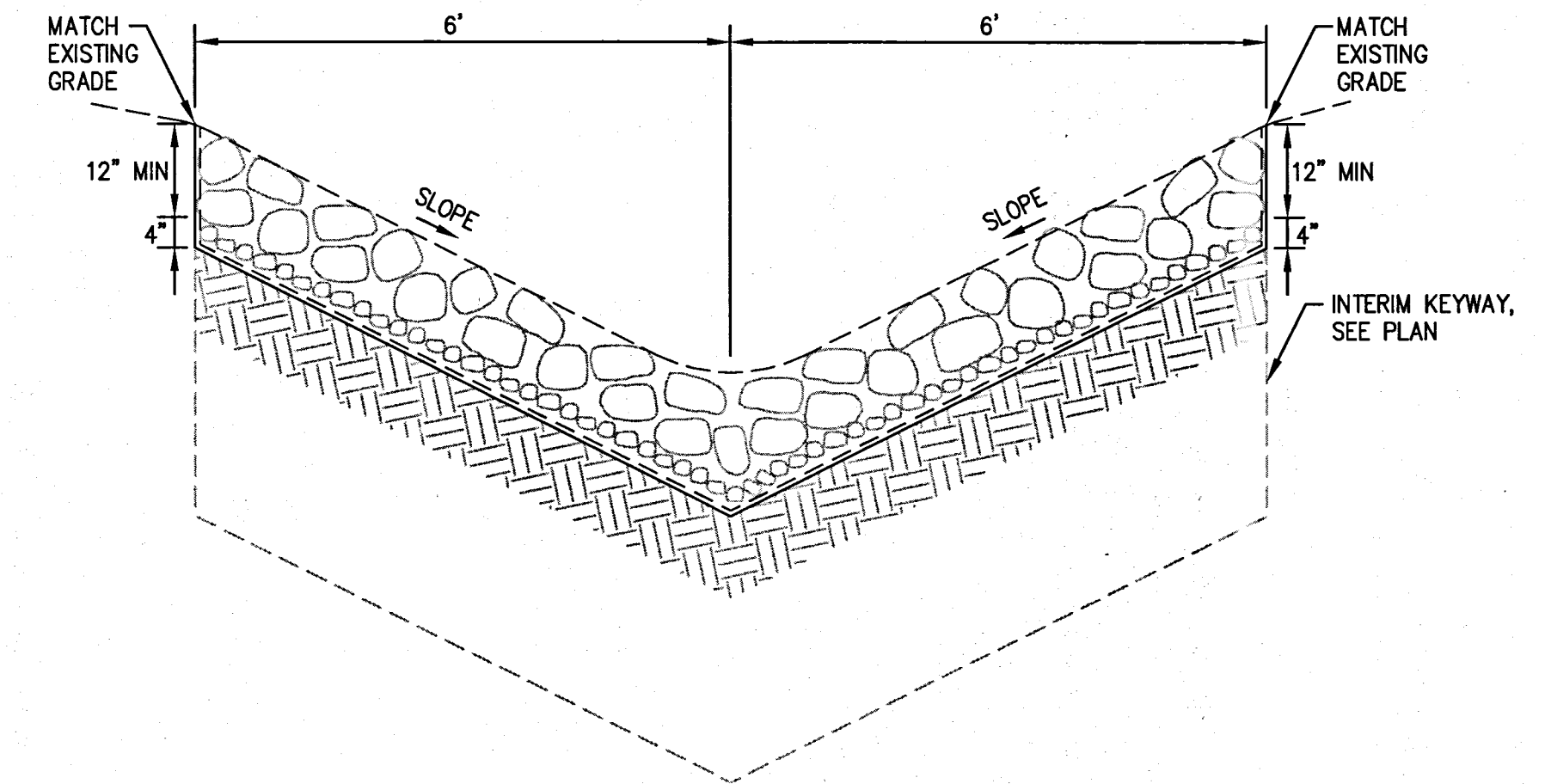
SAN MATEO COUNTY
 CITY OF SAN MATEO

CRYSTAL SPRINGS COUNTY SANITATION DISTRICT NOTES:

1. THE PROPERTY/EASEMENT LINE CLEANOUT MUST BE PLACED IN A LOCATION THAT PROVIDES EASY ACCESS FOR MAINTENANCE EQUIPMENT AND IS OUTSIDE OF ANY ENCLOSURES. A MINIMUM OF 6' IS REQUIRED BETWEEN THE PROPERTY LINE CLEANOUT AND STRUCTURE.
2. THE PLANS INDICATE THAT THE LOWEST FINISHED FLOOR ELEVATION OF THE PROPOSED MAIN RESIDENCE WILL BE LESS THAN ONE (1) FOOT HIGHER THAN THE RIM ELEVATION OF THE NEAREST UPSTREAM SANITARY SEWER MANHOLE. A BACKFLOW PREVENTION OR OVERFLOW DEVICE MUST BE INSTALLED IMMEDIATELY UPSTREAM OF THE REQUIRED CLEANOUT NEAR THE PROPERTY LINE TO PREVENT BACKFLOW OF SEWAGE INTO THE BUILDING/PROPERTY.
3. SANITARY SEWER CONNECTION AND TESTING MUST BE MADE IN THE PRESENCE OF A SEWER DISTRICT REPRESENTATIVE. THIS NOTE SHALL BE ADDED TO THE PLANS.
4. THE SEWER DISTRICT OFFICE SHALL BE CONTACTED (650-363-4100) TO SCHEDULE INSPECTIONS. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF ONE WORKING DAY PRIOR TO THE INSPECTION. NO INSPECTIONS SHALL OCCUR ON FRIDAYS, WEEKENDS OR HOLIDAYS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE SEWER DISTRICT.
5. A VIDEO INSPECTION OF THE SEWER MAIN (MANHOLE TO MANHOLE) WHERE THE NEW LATERAL CONNECTS TO THE SEWER DISTRICT MAIN SHALL BE PERFORMED BY THE APPLICANT OR CONTRACTOR AND SUBMITTED TO THE SEWER DISTRICT FOR REVIEW AFTER LATERAL CONNECTION HAS BEEN MADE. THE VIDEO INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE SPECIAL PROVISIONS FOR CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS (A COPY CAN BE OBTAINED FROM OUR WEBSITE AT [HTTP://PUBLICWORKS.SMCGOV.ORG/SEWER-SERVICES](http://PUBLICWORKS.SMCGOV.ORG/SEWER-SERVICES)). THE SEWER DISTRICT WILL REVIEW THE VIDEO INSPECTION TO DETERMINE WHETHER THE WORK PERFORMED IS ACCEPTABLE. ALL UNACCEPTABLE WORK SHALL BE CORRECTED TO THE SEWER DISTRICT'S SATISFACTION AT THE APPLICANT'S EXPENSE.
6. CARE MUST BE TAKEN TO PROTECT THE EXISTING SEWER DISTRICT FACILITIES WHEN A NEW SEWER LATERAL AND CONNECTION IS INSTALLED. ANY DAMAGES TO THE SEWER DISTRICT FACILITIES DURING THE INSTALLATION OF THE NEW LATERAL SHALL BE REPAIRED BY THE APPLICANT PER THE SEWER DISTRICT STANDARD DETAILS AND AT THE APPLICANT'S EXPENSE. THE SEWER DISTRICT MUST BE NOTIFIED OF ANY DAMAGES TO THE SANITARY SEWER FACILITIES AND ANY REPAIRS MUST BE INSPECTED BY A SEWER DISTRICT REPRESENTATIVE.
7. LATERAL CONNECTION TO THE EXISTING MANHOLE SHALL BE MADE BY CORE DRILLING A HOLE IN THE MANHOLE WALL APPROPRIATELY SIZED FOR THE SEWER LATERAL PIPE. THE ANNULAR SPACE BETWEEN THE WALL AND PIPE SHALL BE PLUGGED WITH MORTAR CEMENT. AFTER THE ANNULAR SPACE HAS BEEN PLUGGED, THE INTERIOR OF THE ENTIRE MANHOLE SHALL BE COATED WITH AN APPROVED WATERPROOFING MATERIAL APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
8. THE CONTRACTOR MUST REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS IN THE MANHOLE AFTER THE LATERAL CONNECTION HAS BEEN MADE. CARE MUST BE TAKEN TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE SEWER SYSTEM DURING THE INSTALLATION OF THE NEW SEWER LATERAL CONNECTION. IF THE SEWER DISTRICT DISCOVERS THAT CONSTRUCTION DEBRIS HAS ENTERED THE SEWER SYSTEM, THE APPLICANT WILL BE RESPONSIBLE TO CLEAN AND TEST THE DOWNSTREAM PORTIONS OF THE SEWER MAINS AS DETERMINED BY THE SEWER DISTRICT TO THE SEWER DISTRICT'S SATISFACTION. SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.



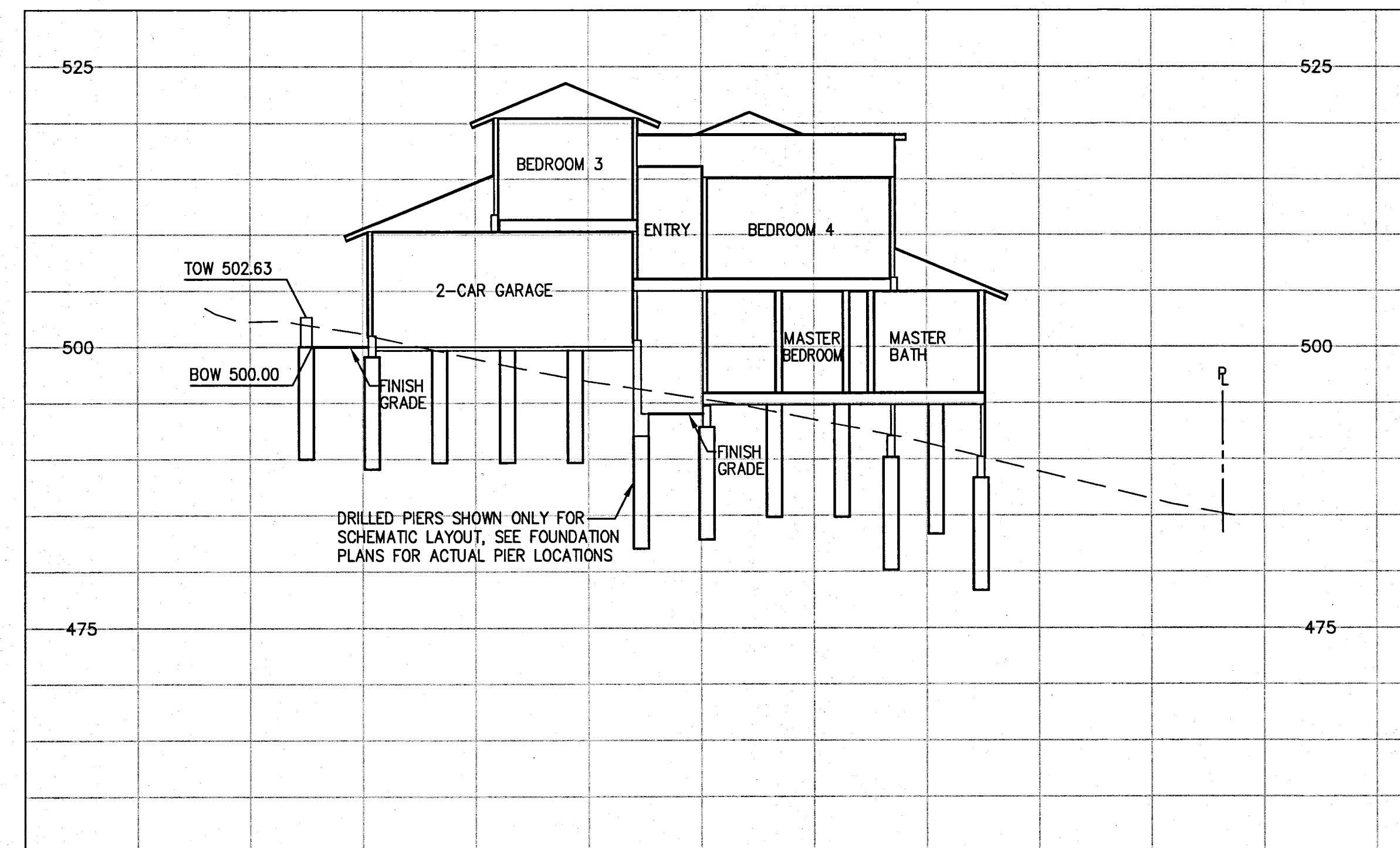
**OUTLET STRUCTURE
 CROSS SECTION B-B**
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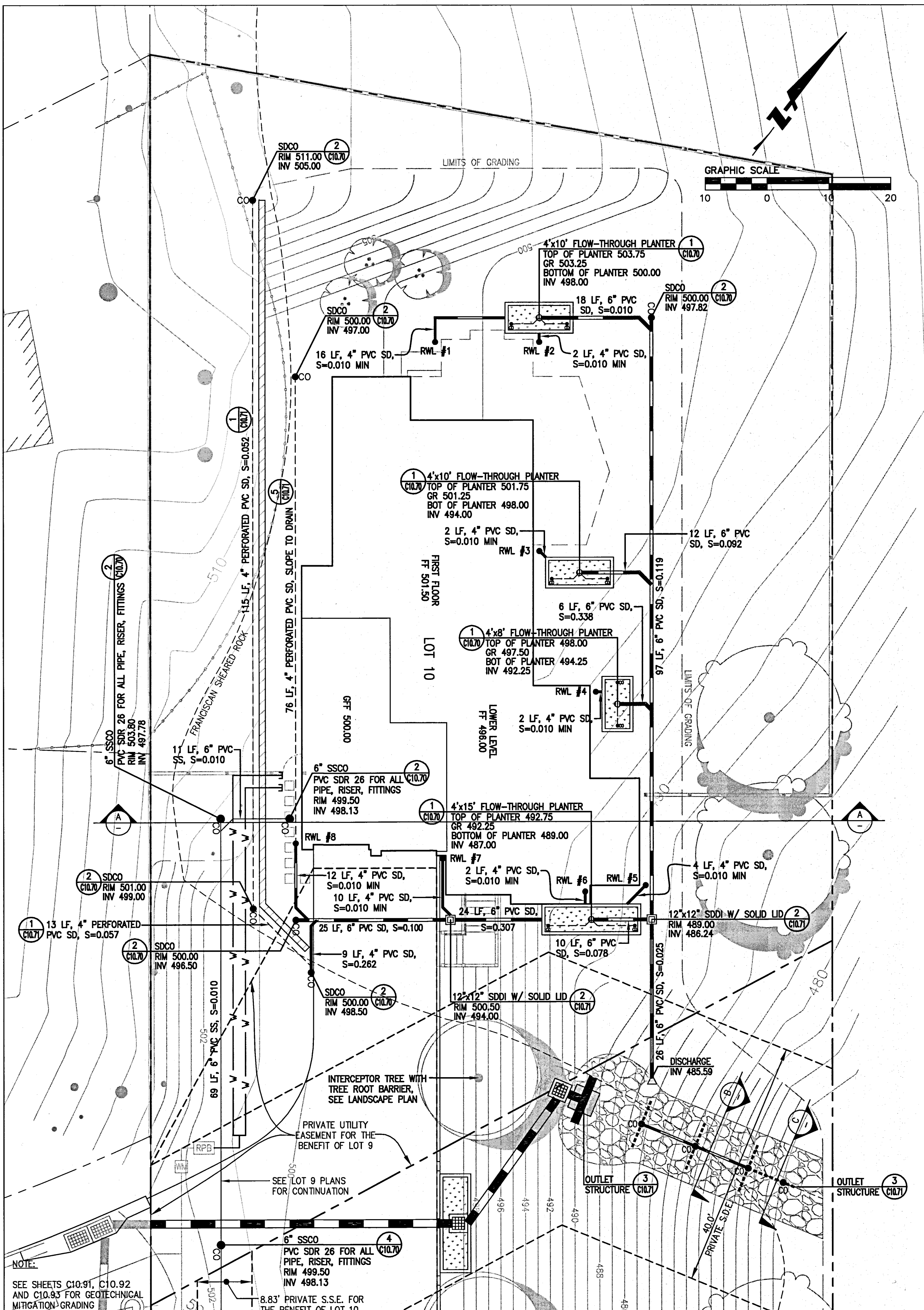
**OUTLET STRUCTURE
 CROSS SECTION C-C**
 NTS

NOTES:

1. PER THE GEOTECHNICAL REPORT, UNDOCUMENTED FILL WAS MAPPED AT LOT 10 AND IF THIS FILL IS TO BE LEFT IN PLACE DURING HOUSE AND DRIVEWAY GRADING, IT SHOULD BE REMOVED AND REPLACED AS PROPERLY COMPACTED ENGINEERED FILL.
2. PER THE GEOTECHNICAL REPORT, ALL EXISTING FILLS SHOULD BE COMPLETELY REMOVED FROM WITHIN PROPOSED HOUSE FOOTPRINT AND DRIVEWAY AREAS AND TO A LATERAL DISTANCE OF AT LEAST 5 FEET BEYOND THE EDGE OF THE IMPROVEMENTS OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ANY EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
3. PER THE GEOTECHNICAL REPORT, GEOTECHNICAL MITIGATION GRADING WILL BE PERFORMED ON LOT 10, SEE SHEETS C10.91 AND C10.92 FOR GRADING DETAILS OF THE MITIGATION.
4. PER THE GEOTECHNICAL REPORT, ALL BUILDING AND RETAINING WALLS SHOULD BE SUPPORTED ON DRILLED PIERS. THE FOUNDATION SHOWN ON THIS PLAN ARE SCHEMATIC. REFER TO THE PROJECT STRUCTURAL PLANS FOR DETAILS ON THE DRILLED PIERS.



**LOT 10
 CROSS SECTION A-A**
 SCALE: 1"=10'



**LOT 10
 UTILITY PLAN**
 SCALE: 1"=10'

REVIEWED FOR CODE COMPLIANCE
 This review does not constitute a validation of the information provided.
 NOV 13 2018
 SAN MATEO CO. BLDG. INSPECTION DIV.
 [Signature]

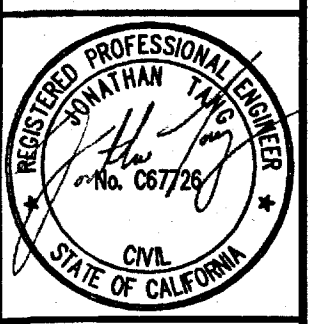
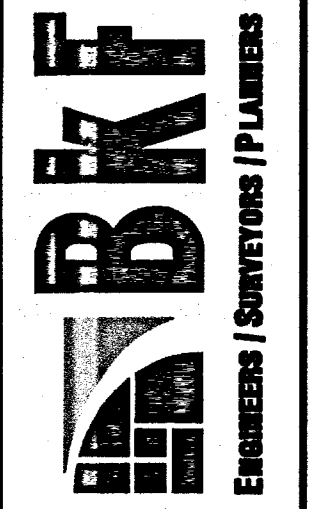
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REVISIONS
 OCT 14 2018
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NOTE:
 SEE SHEETS C10.91, C10.92
 AND C10.93 FOR GEOTECHNICAL
 MITIGATION GRADING

255 SHORELINE DRIVE, SUITE 200
 REDWOOD CITY, CA 94065
 PHONE: (650) 482-6390
 FAX: (650) 482-6399



CALIFORNIA

HIGHLAND ESTATES
 LOT 10 IMPROVEMENT PLANS
 EROSION CONTROL PLANS

SAN MATEO COUNTY
 CITY OF SAN MATEO

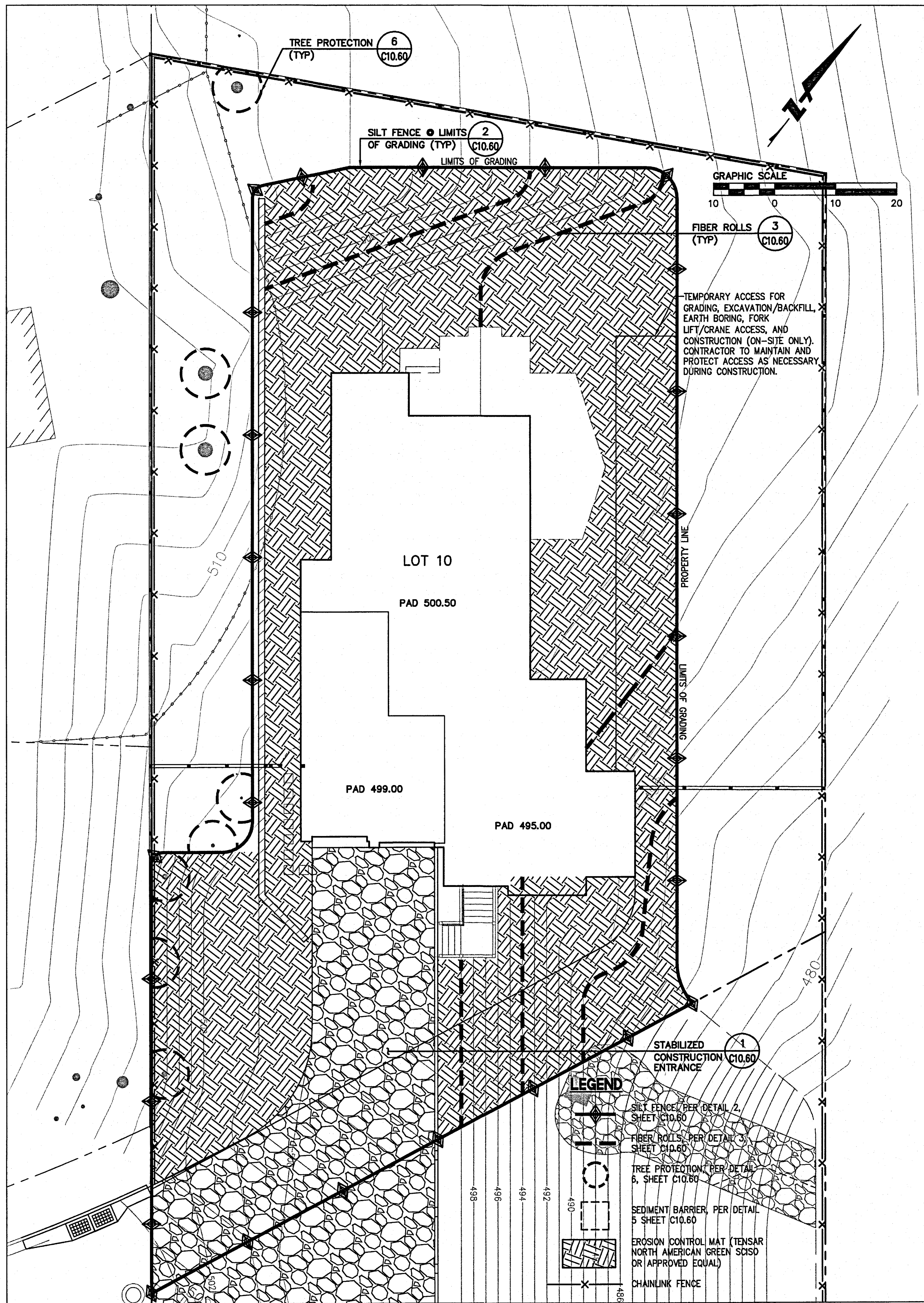
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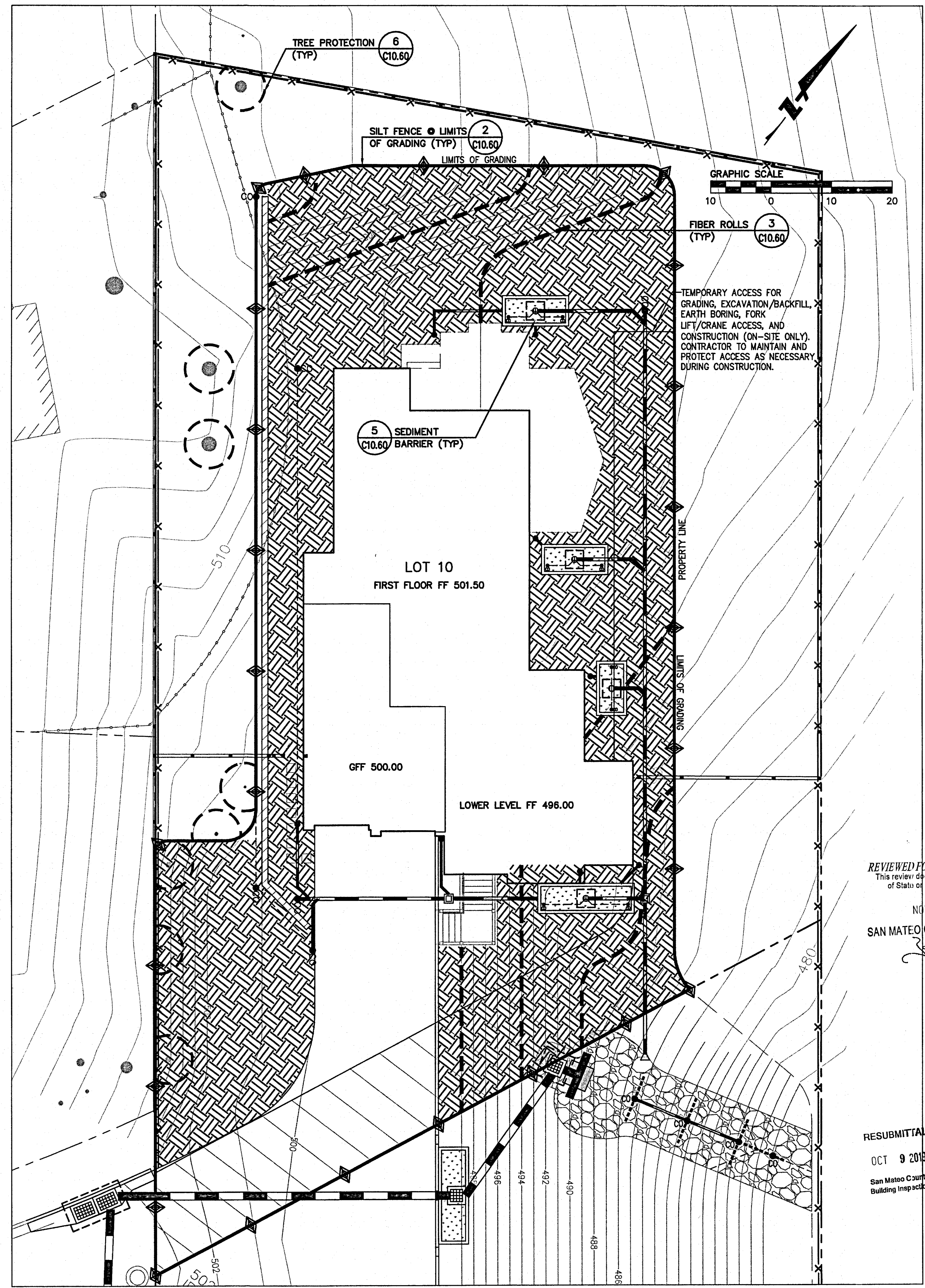
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 OCT 9 2019
 San Mateo County Building Inspection

Date	Revisions	No.
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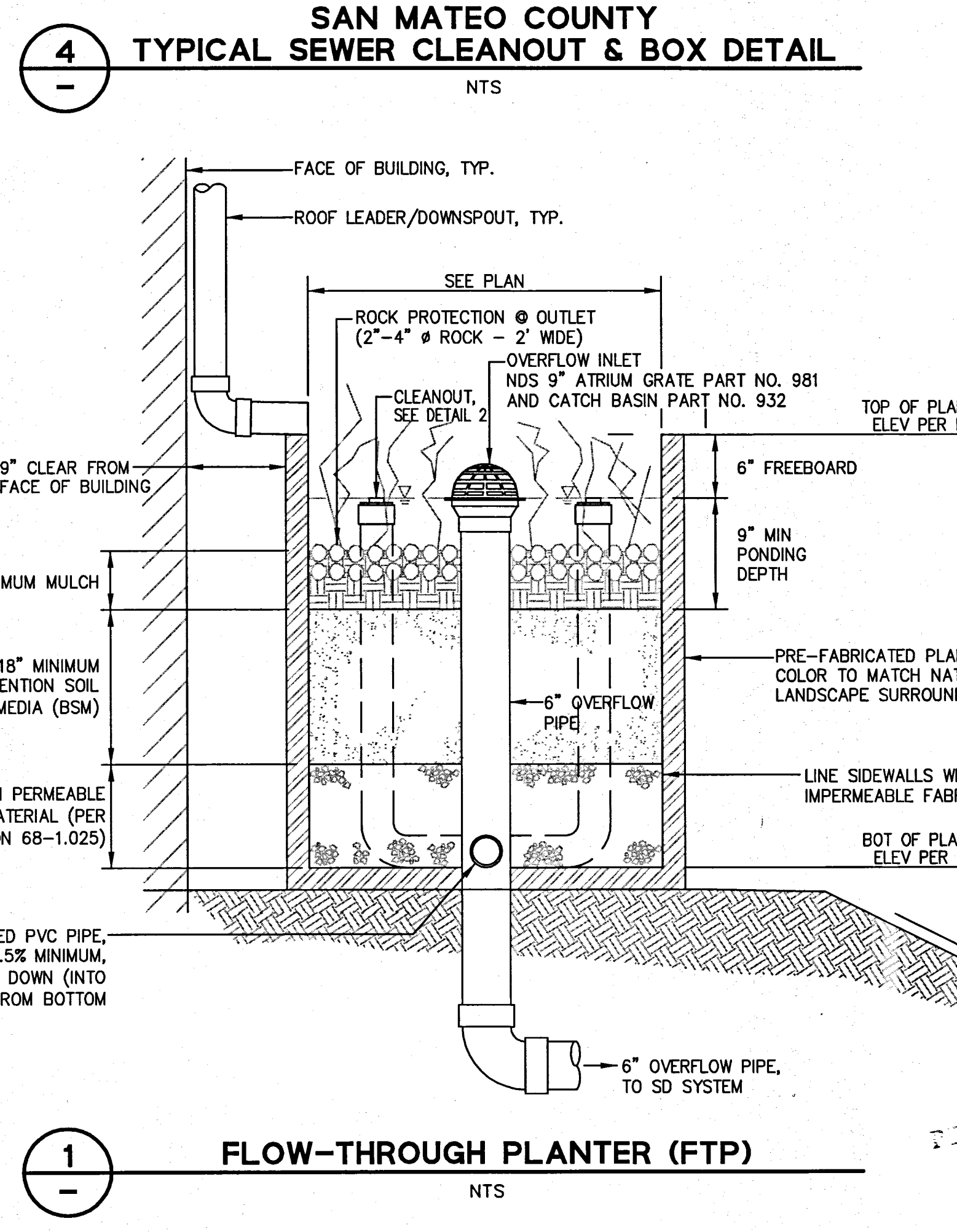
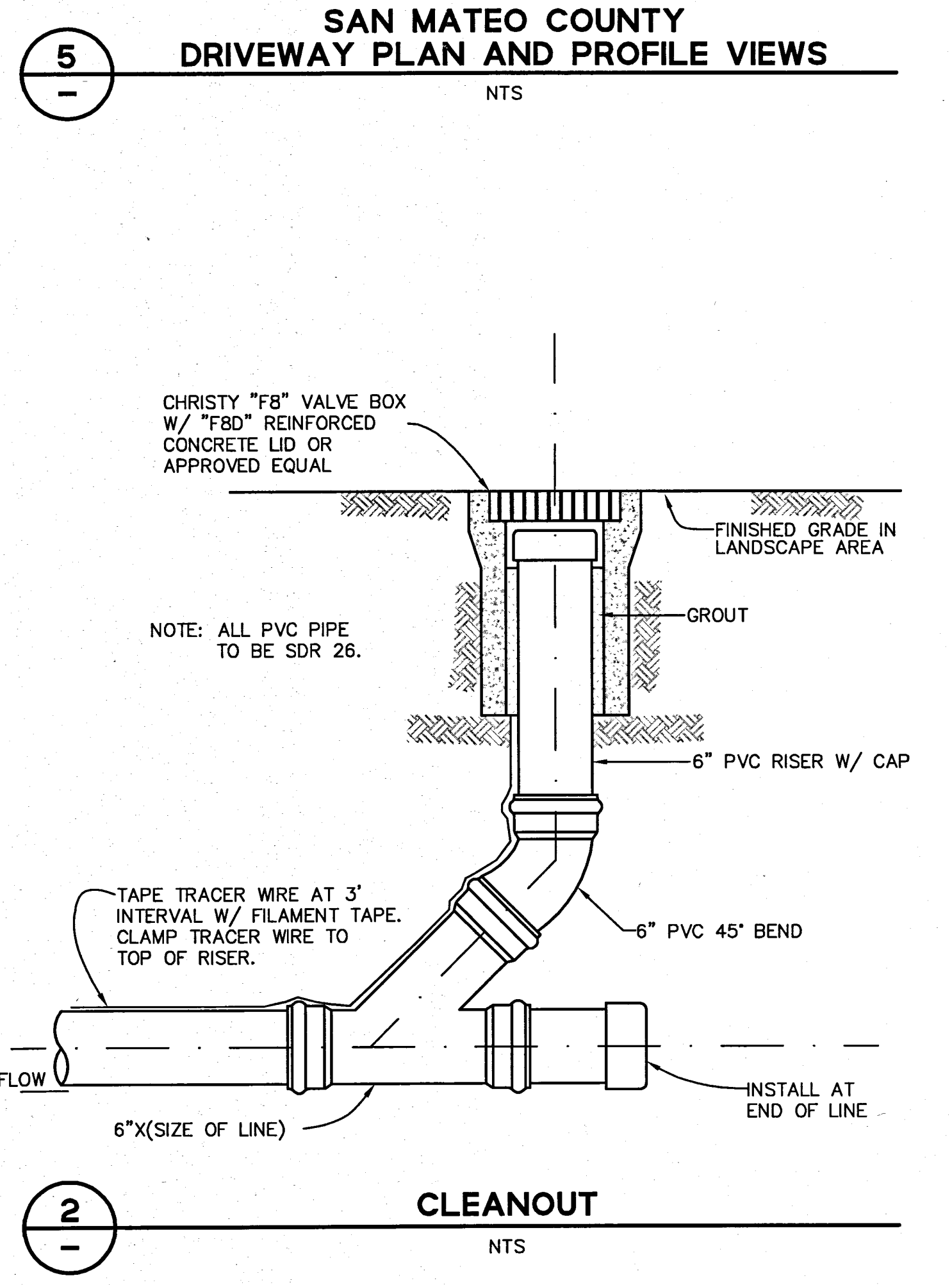
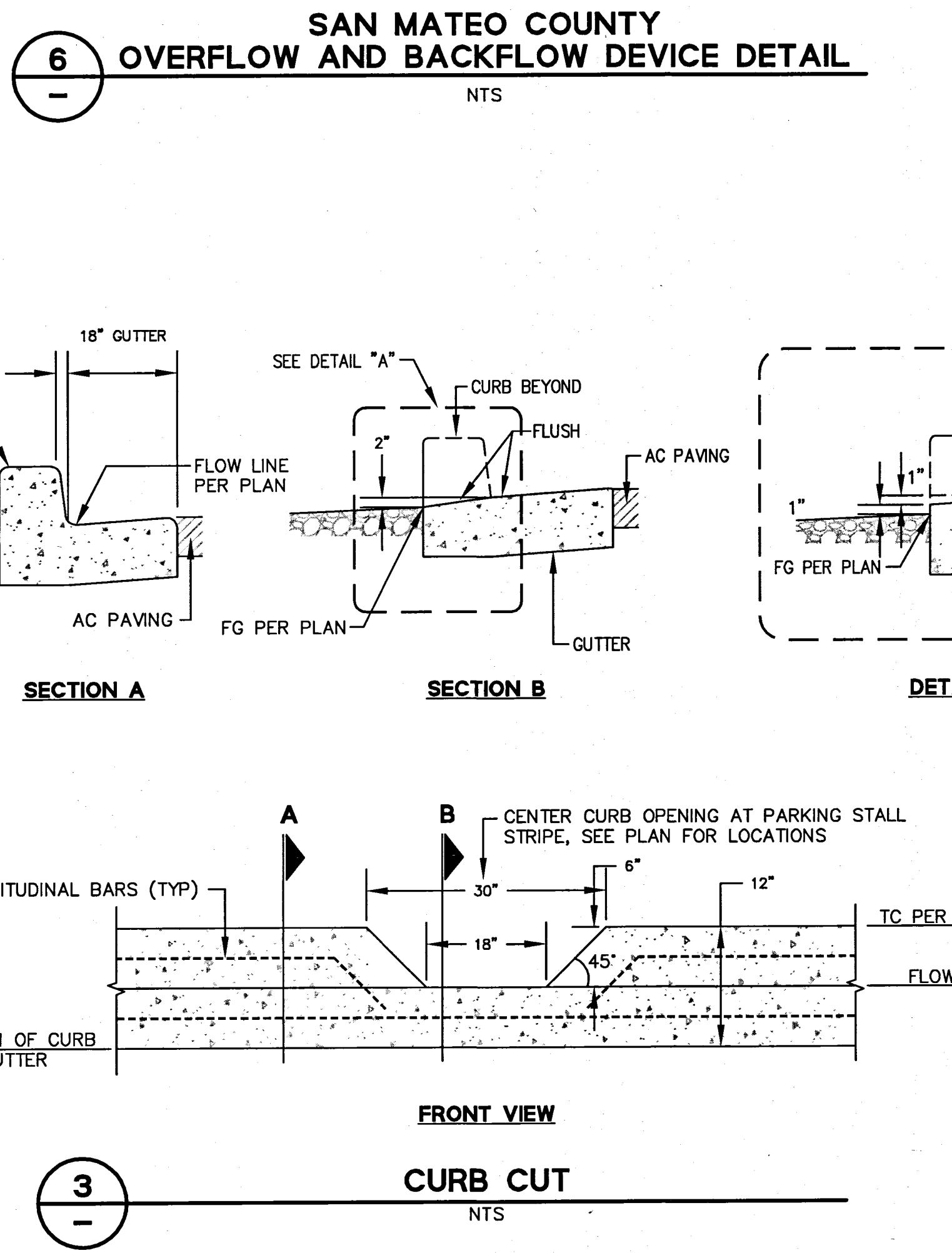
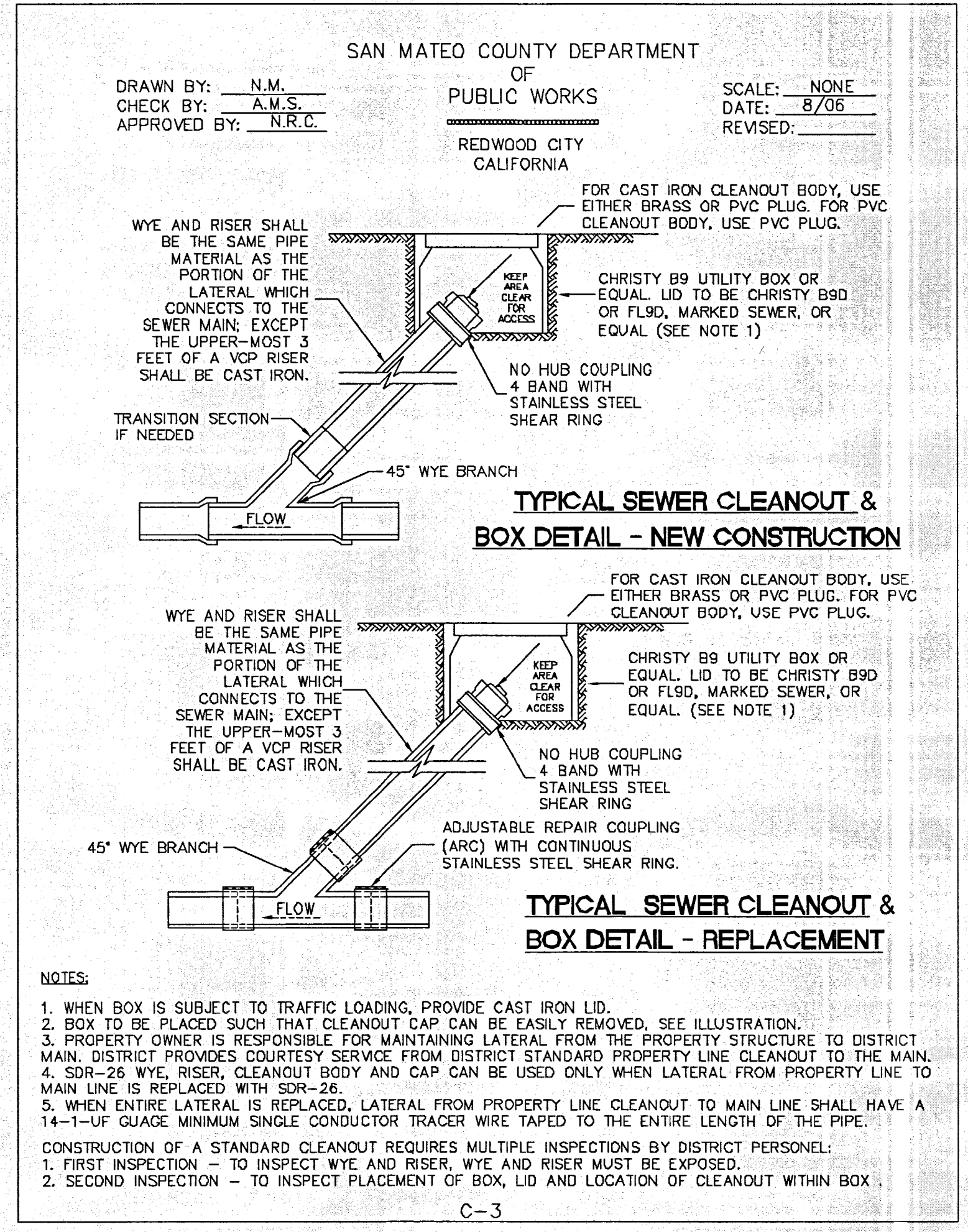
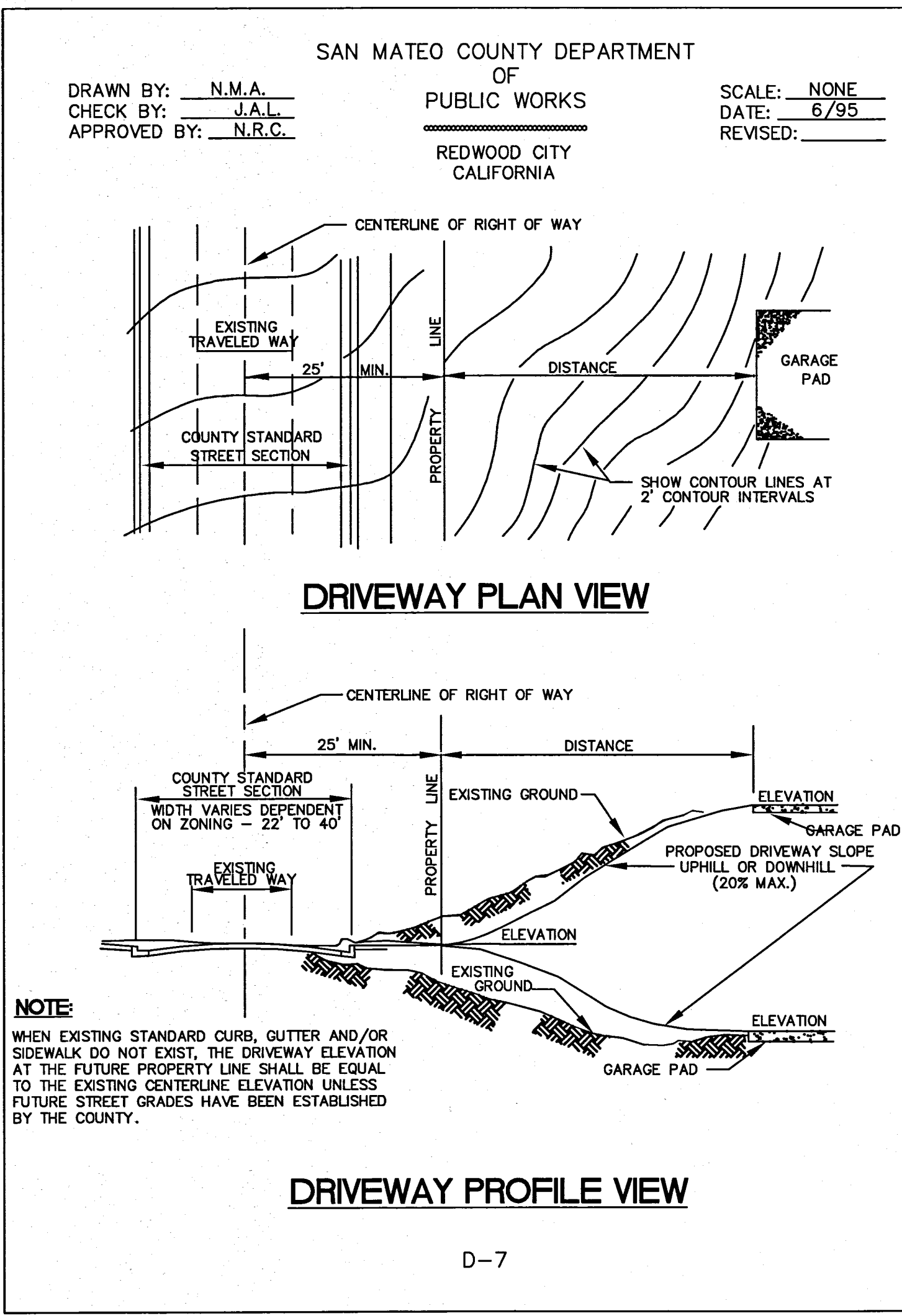
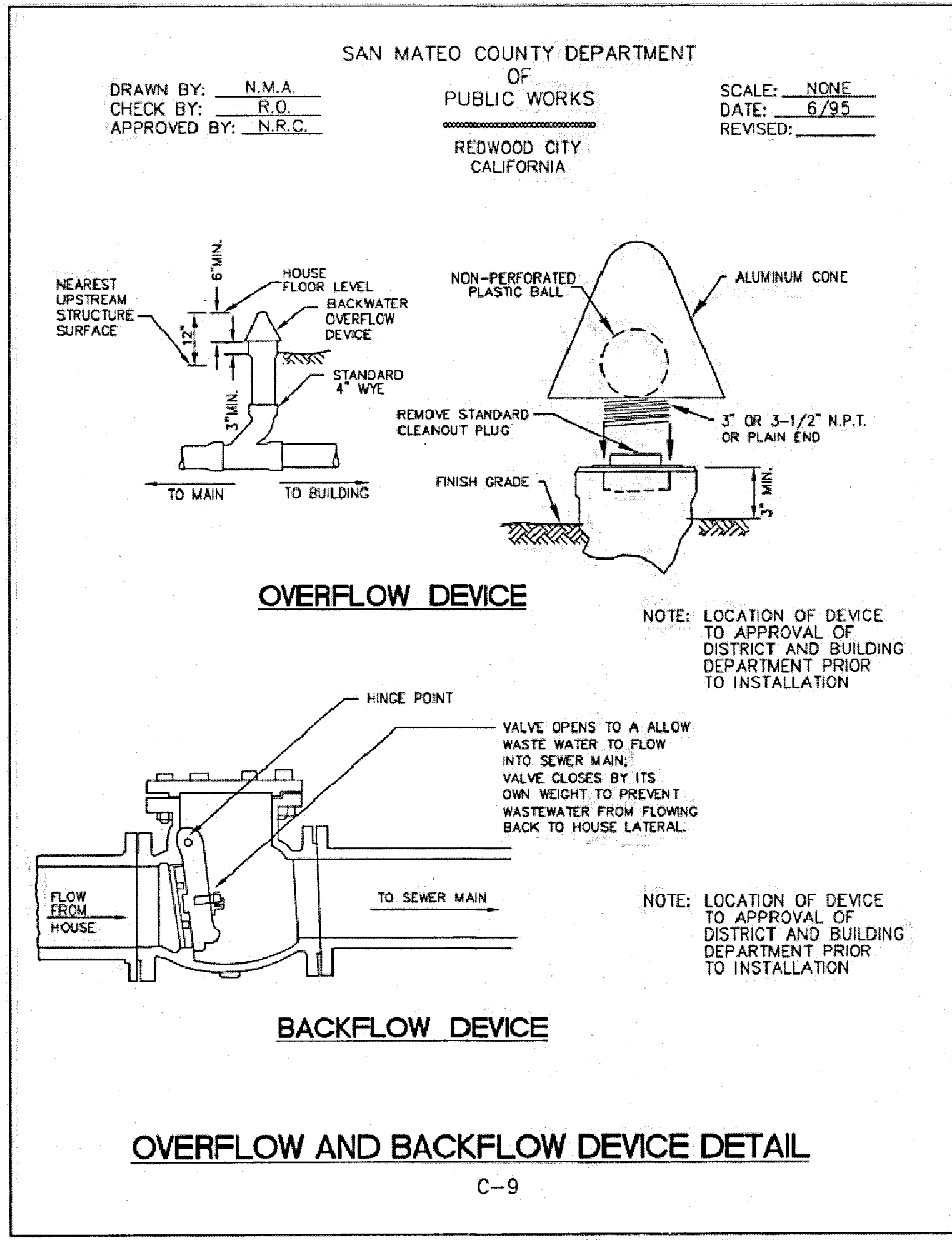
**LOT 10
 GRADING AND RETAINING WALL EROSION CONTROL PLAN**
 SCALE: 1"=10'



**LOT 10
 FOUNDATION AND CONSTRUCTION EROSION CONTROL PLAN**
 SCALE: 1"=10'

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 PLOT DATE: 12-03-18
 PLOTTED BY: holt

Revisions	
No.	Description



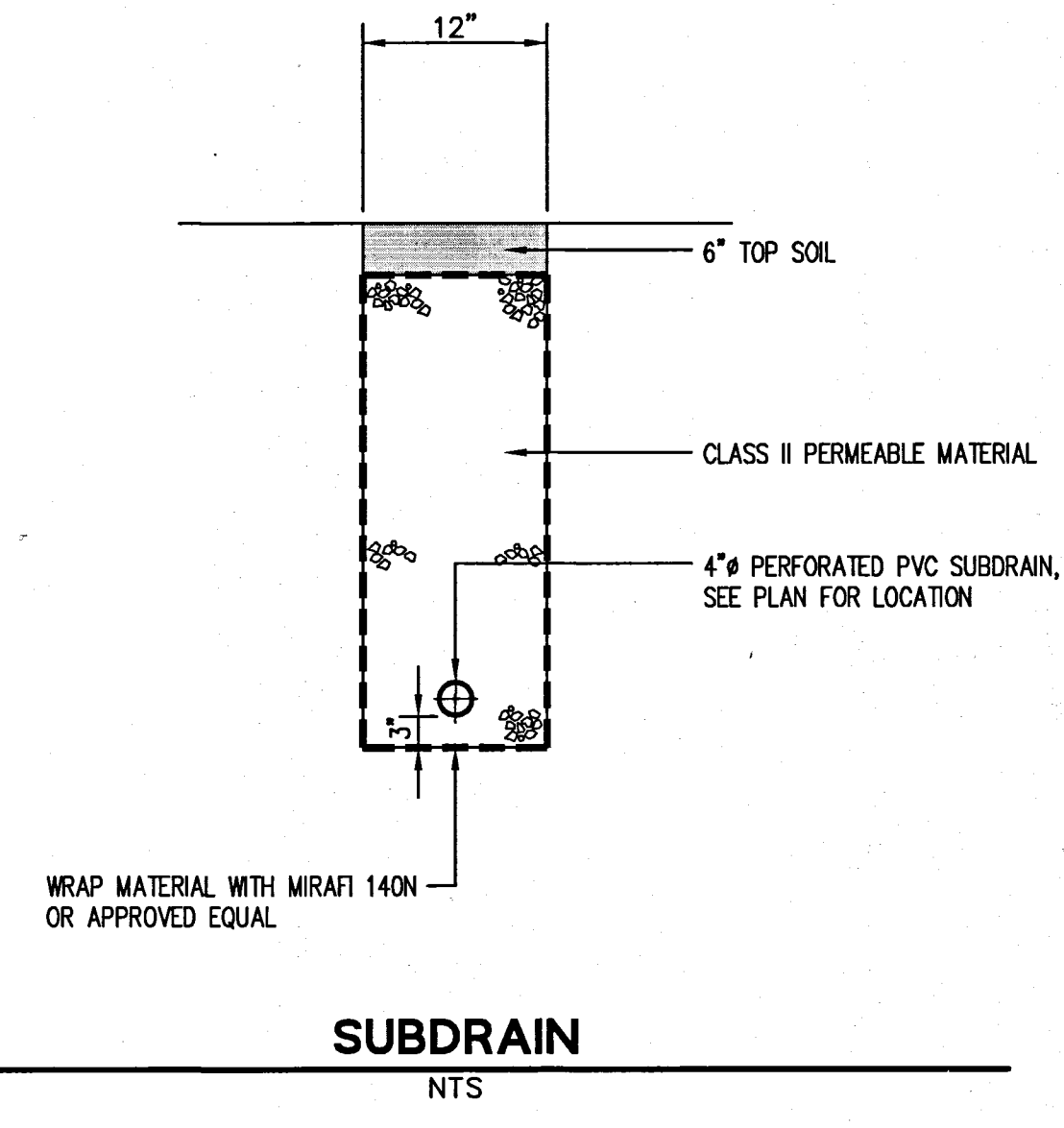
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REVIEWED FOR CODE VIOLATION
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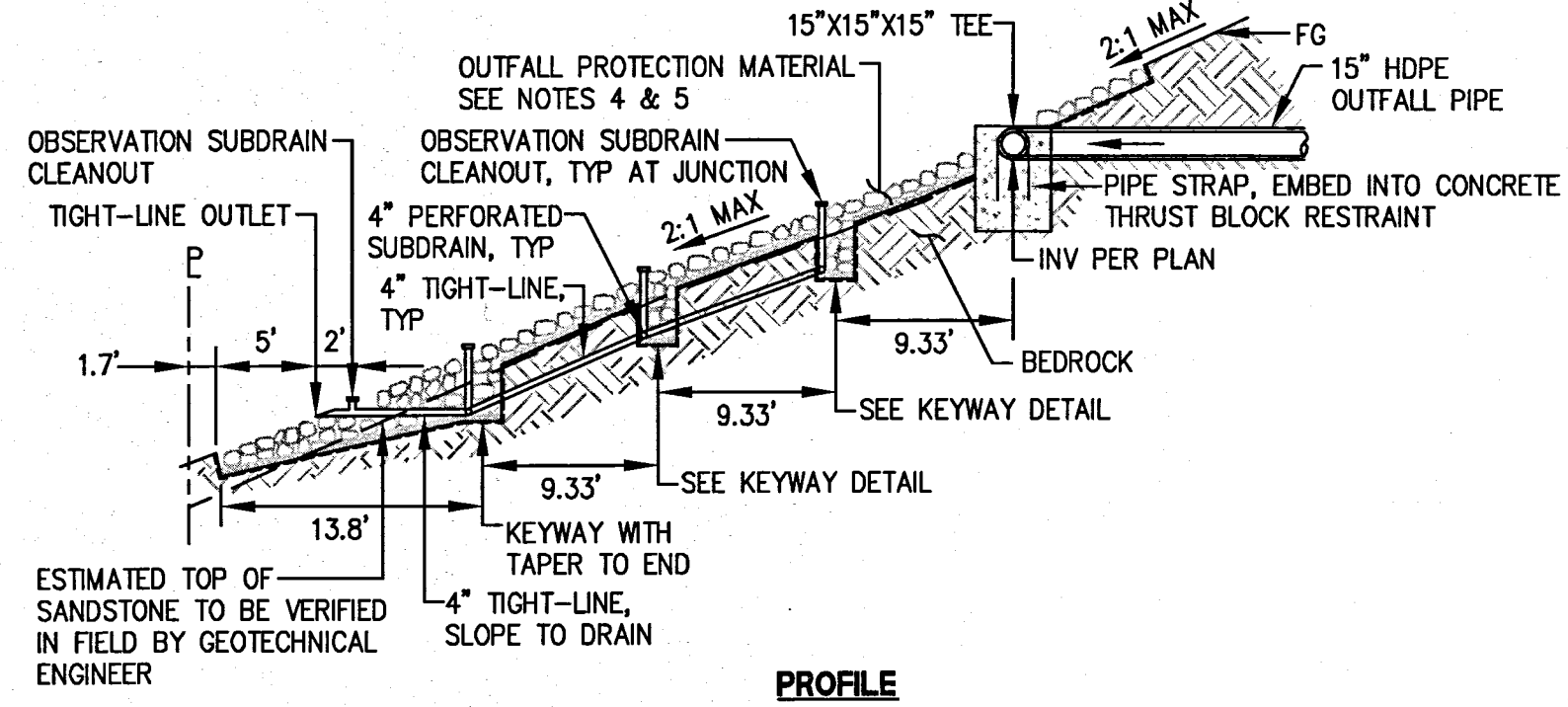
NOV 13 2013
SAN MATEO CO. BLDG. I SP. DIV.

No.	Date	Revisions
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		Approved RH/JT
		Job No. 88088-20

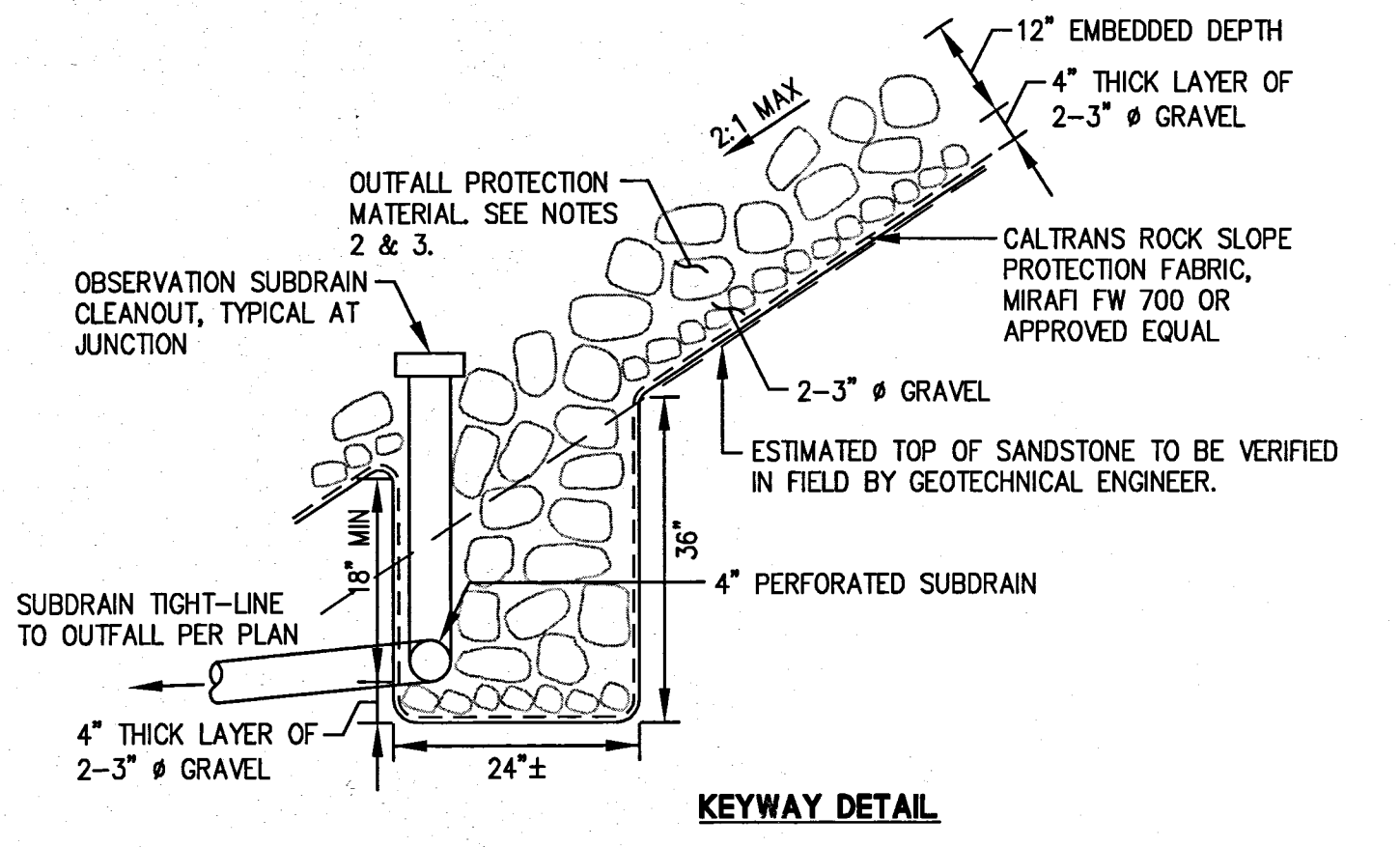
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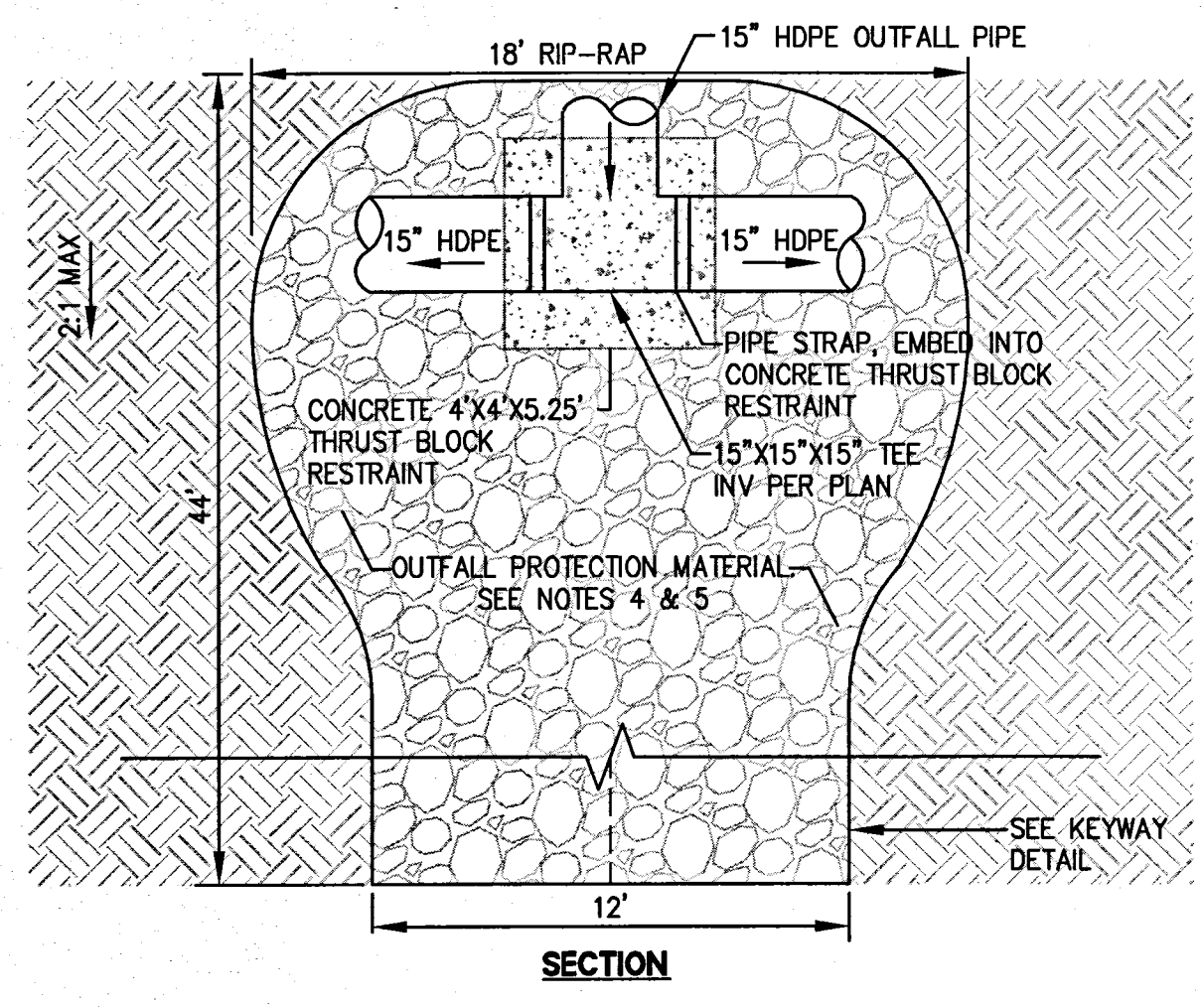
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SUBDRAIN
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3
OUTLET STRUCTURE
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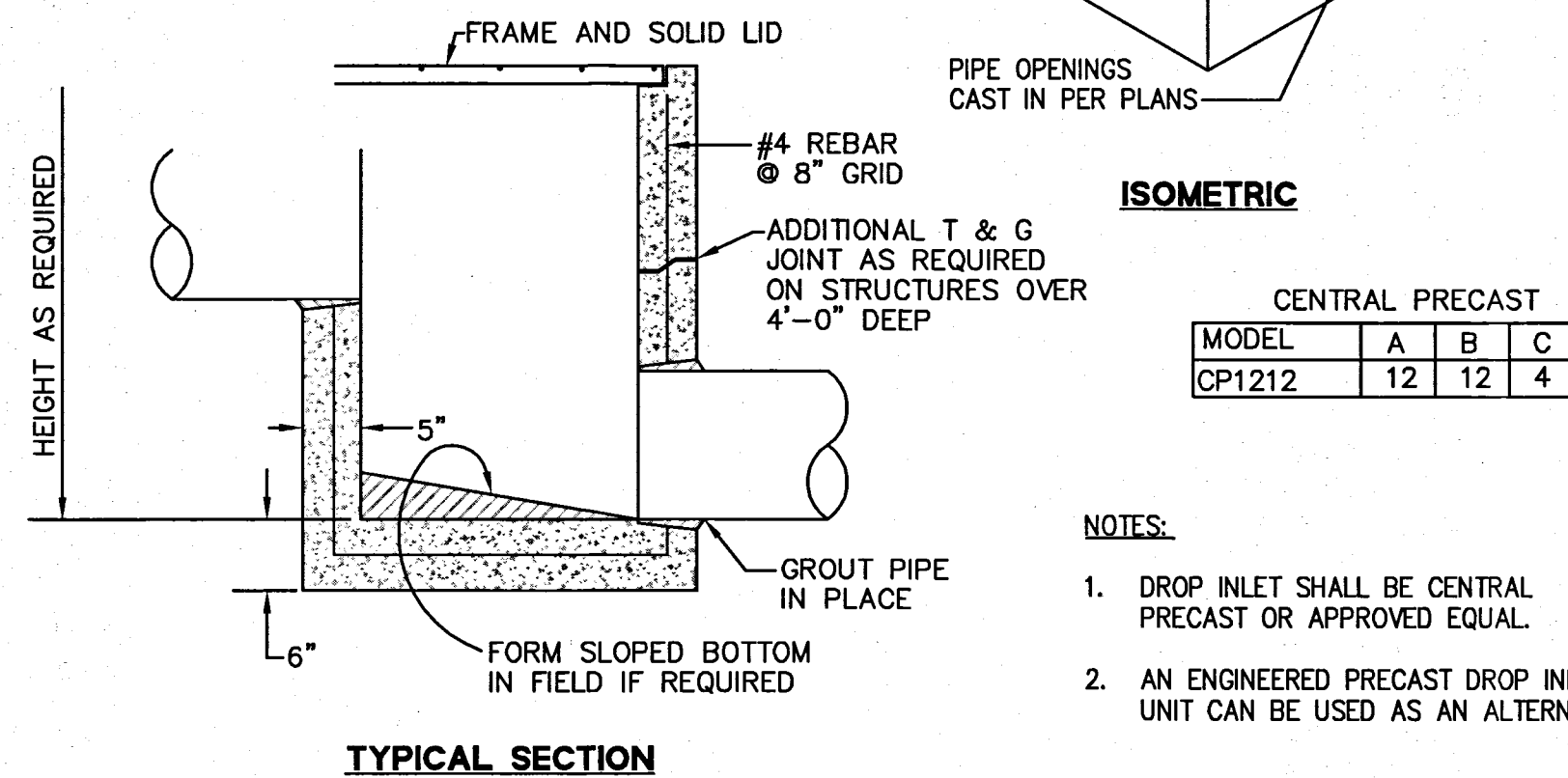
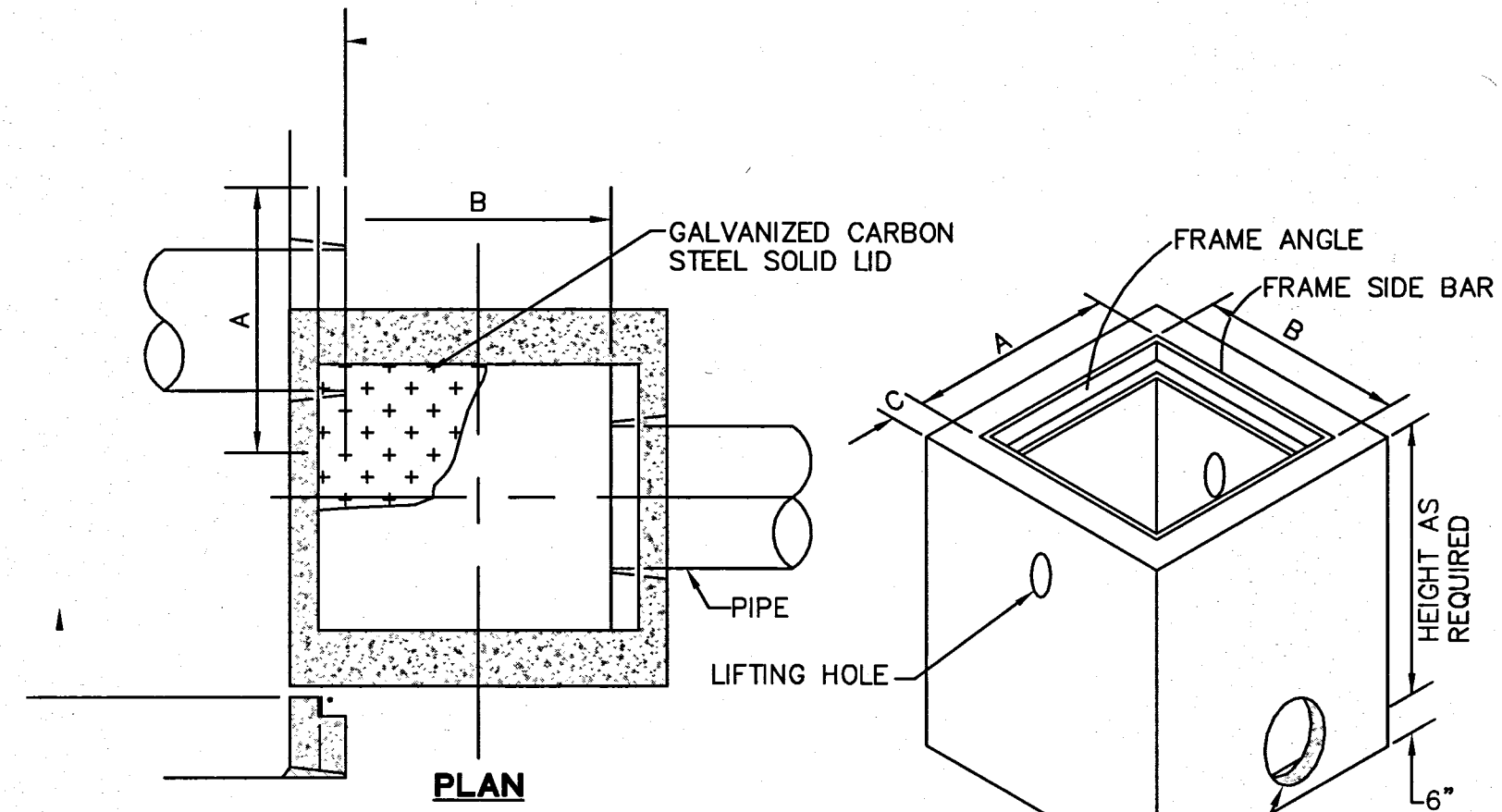


2
KEYWAY DETAIL

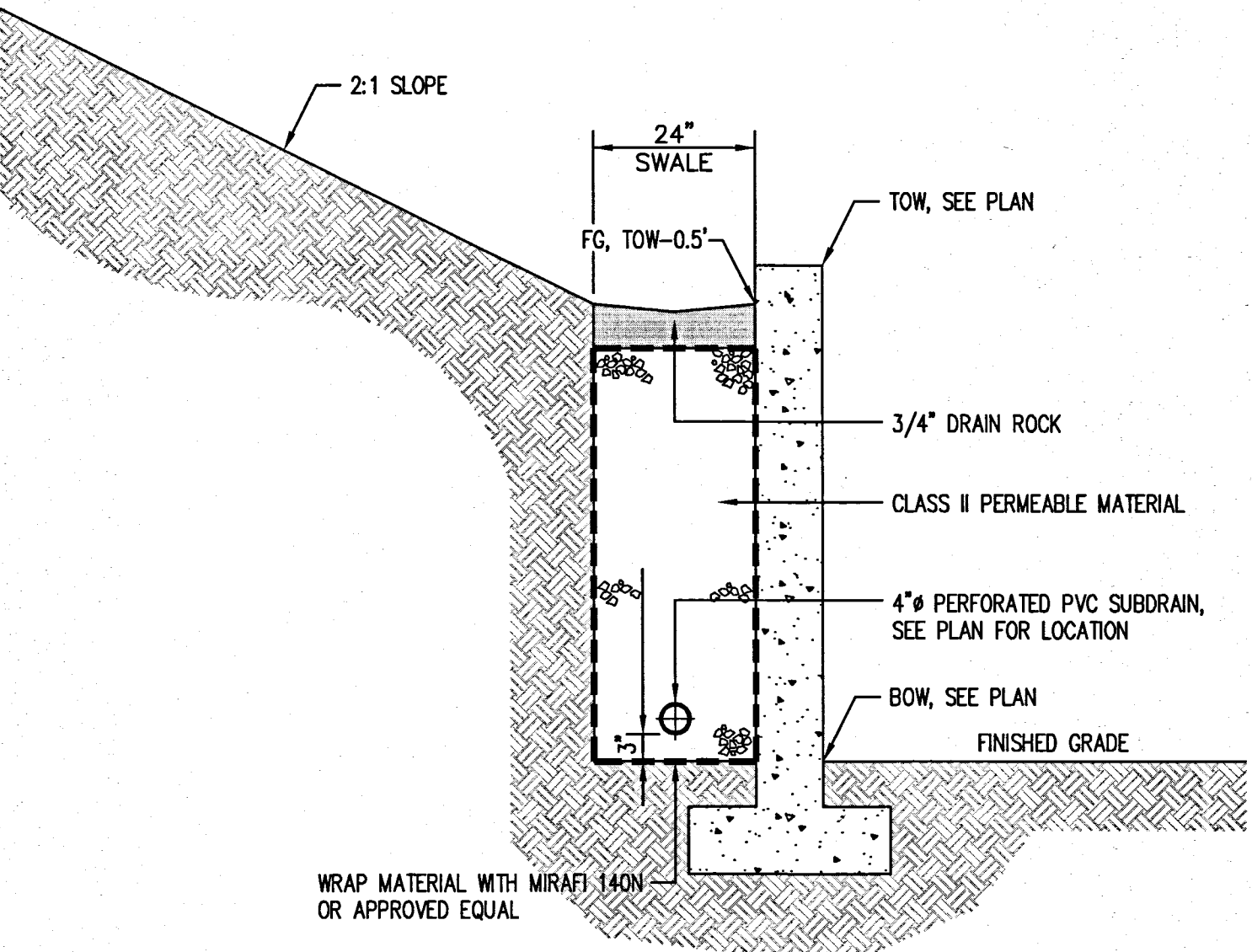


- NOTES:
- ALL HEADWALLS SHALL BE PLASTIC AND CONSTRUCTED IN CONFORMANCE WITH CALTRANS STANDARD PLAN D94A AND SECTION 70-5.02 OF THE CALTRANS STANDARD SPECIFICATIONS, 2015.
 - PIPE MATERIAL TO BE HDPE, CORRUGATED EXTERIOR WITH SMOOTH INTERIOR.
 - CONCRETE THRUST BLOCK TO BE PCC.
 - AREA OF ROCK RIP-RAP OUTFALL/EROSION PROTECTION IN ACCORDANCE WITH VELOCITY DISSIPATION DEVICES EC-10 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) BMP HANDBOOK, JANUARY 2011.
 - OUTFALL PROTECTION MATERIAL:
-CALTRANS ROCK SLOPE PROTECTION FABRIC WITH NO. 2 BACKING CONFORMING TO SECTION 72 OF THE CALTRANS STANDARD SPECIFICATIONS.
-CALTRANS NO. 2 TO BE ~8" SIZE ANGULAR ROCK (25 LBS, TYP.) BROWN TO DARK BROWN/BLACK IN COLOR.
 - KEYWAYS SHALL BE EVENLY SPACED ALONG THE RIP-RAP LENGTH.

3
OUTLET STRUCTURE
NTS



1
DROP INLET
NTS



1
SUBDRAIN AT WALL
NTS

SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS
REDWOOD CITY CALIFORNIA

DRAWN BY: M.I.
CHECK BY: D.M.W.
APPROVED BY: N.R.C.

SCALE: NONE
DATE: 6/95
REVISED: 7/97

TYPE A (IN ROADWAY) **TYPE B (OUTSIDE ROADWAY)**

NOTES:

- SAND... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
No. 4	100
No. 200	0-5

- STRUCTURE BACKFILL MATERIAL... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
3"	100
No. 4	35-100
No. 30	20-100

- BACKFILL MATERIAL... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

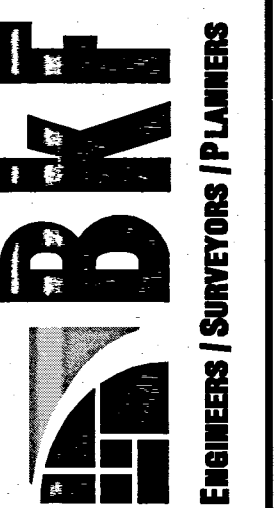
STANDARD TRENCH BACKFILL AND BEDDING DETAIL

W-10

4
STANDARD TRENCH BACKFILL & BEDDING DETAIL
NTS

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PLOT DATE: 10-09-18
PLOT BY: holt

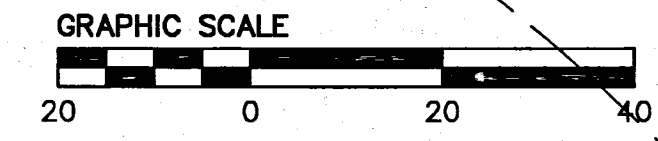
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
PHONE: (650) 461-8000
FAX: (650) 462-6399



CALIFORNIA

HIGHLAND ESTATES LOT 10 IMPROVEMENT PLANS LOGISTICS PLAN

SAN MATEO COUNTY
CITY OF SAN MATEO



SITE KEY:

- ① WASH OUT PIT, PER CASQA STANDARD WM-8, CONCRETE WASTE MANAGEMENT (REFER TO DETAIL 2, SHEET C10.90).
 - ② TOILETS AND HAND WASH STATION
 - ③ MATERIALS STORAGE
 - ④ DEBRIS BOX LOCATION
 - ⑤ TOOL STORAGE LOCKER
 - ⑥ JOB SITE TRAILER
 - ⑦ STOCKPILE AREA
 - ⑧ CONSTRUCTION EQUIPMENT PARKING
- TEMPORARY CONSTRUCTION ACCESS

CONSTRUCTION NOTES:

1. CONSTRUCTION ACCESS ROUTE SHALL BE FROM COBBLEHILL PLACE TO INTERSTATE 280:
HEAD SOUTHWEST ON COBBLEHILL PL TOWARD WOODCREEK CT.
TURN LEFT ONTO TICONDEROGA DR.
TURN RIGHT ONTO POLHEMUS RD.
TURN LEFT TO MERGE ONTO CA-92 TOWARD I-280.
2. STOCKPILE TO CONFORM TO CASQA STANDARD WM-3, STOCKPILE MANAGEMENT (REFER TO DETAIL 1, SHEET C5.90).
3. CONSTRUCTION VEHICLE PARKING AREA SHALL HAVE 4" - 6" AGGREGATE OVER GEO-TEXTILE FABRIC.

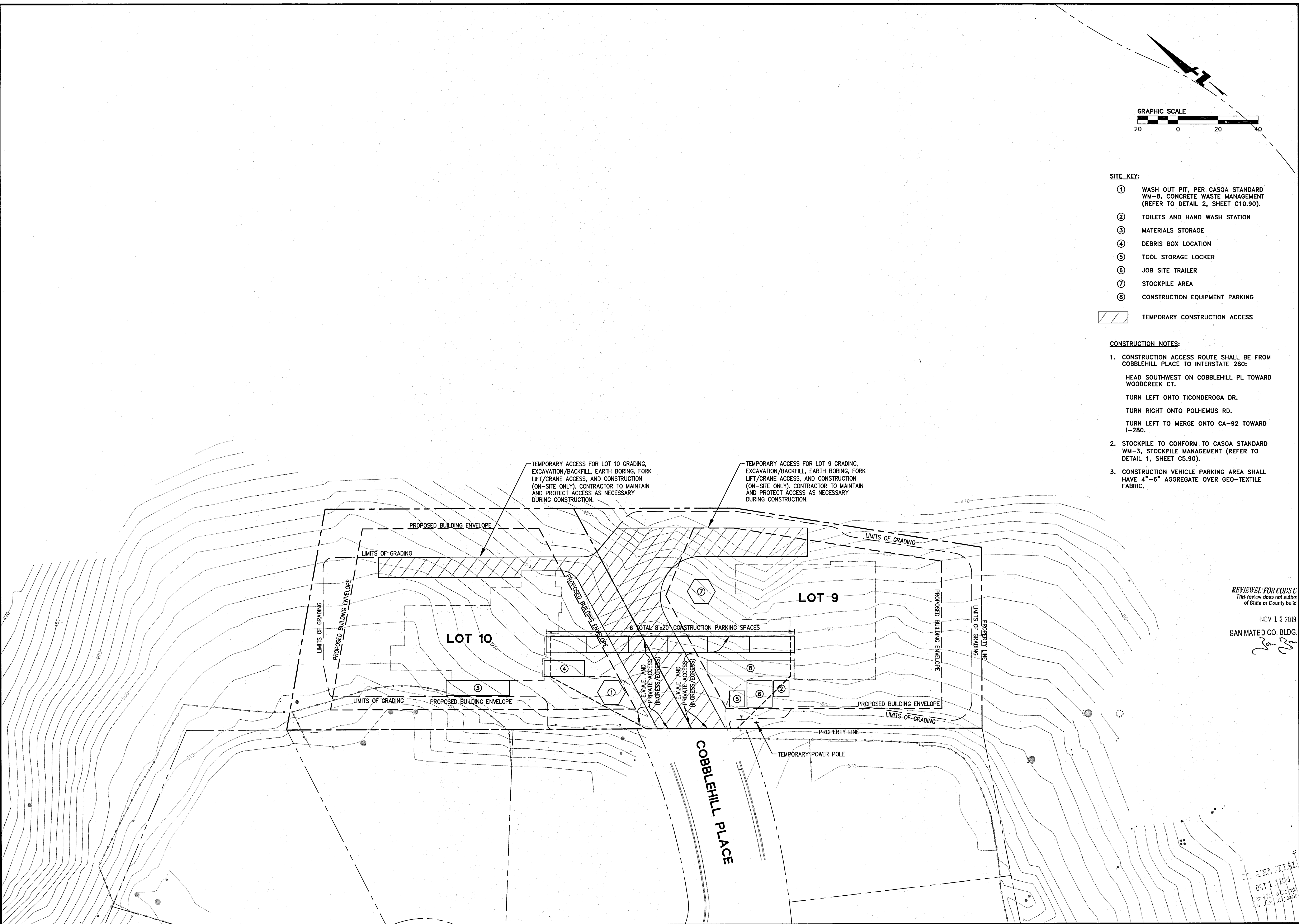
REVIEWED FOR CODE COMPLIANCE
This review does not authorize the use of State or County building laws

NOV 13 2018
SAN MATEO CO. BLDG. DEPT. DIV. 1
[Signature]

Revisions	No.	Date	Scale	Design	Drawn	Approved	Job No.
	1	10/8/2018	1"=20'	JT	LE	RH/JT	95068-20

Sheet Number:
C10.80
OF

DRAWING NAME: K:\Eng95\950168\dwg\CD\Lot_10\C10.80-HECDLP.DWG
PLOT DATE: 10-09-18 PLOTTED BY: holt



REVIEWED FOR CONFORMANCE
This review does not constitute a violation of State or County building laws.

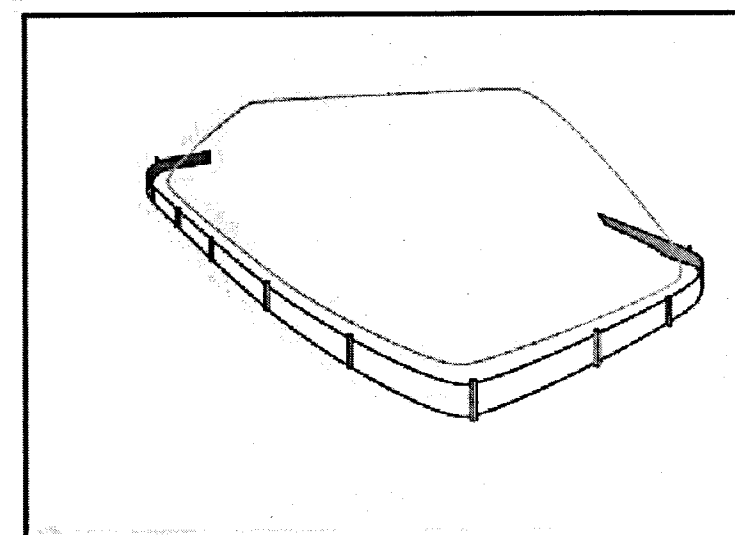
NOV 13 2019
SAN MATEO CO. BUILDING DEPARTMENT
CITY OF SAN MATEO

No.	Revisions
10/8/2018	Scale AS SHOWN
	Design JT
	Drawn LE
	Approved RH/JT
	Job No. 95068-20

Sheet Number: **C10.90**
OF

Stockpile Management

WM-3



Categories

EC	Erosion Control	
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
MS	Non-Stormwater Management Control	<input checked="" type="checkbox"/>
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

Legends:

<input checked="" type="checkbox"/>	Primary Category
<input checked="" type="checkbox"/>	Secondary Category

Description and Purpose
Stockpile management procedures and practices are designed to reduce or eliminate air and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub base or pre-mixed aggregate, asphalt mulch (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications
Implement in all projects that stockpile soil and other loose materials.

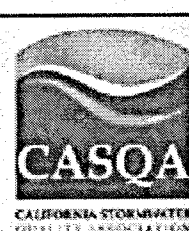
- Limitations**
- Plastic sheeting as a stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
 - Plastic sheeting can increase runoff volumes due to lack of infiltration and potentially cause perimeter control failure.
 - Plastic sheeting breaks down faster in sunlight.
 - The use of plastic materials should be avoided when feasible and photodegradable plastics should not be used.

Implementation
Protection of stockpiles is a year-round requirement. To properly manage stockpiles:

Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>

Potential Alternatives
None



Stockpile Management

WM-3

- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.
- All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles
Non-active stockpiles of the identified materials should be protected further as follows:

- Soil stockpiles**
- Cover and protect soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.
 - Consider temporary vegetation for topsoil piles that will be stockpiled for extended periods.
- Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base**
- Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at all times.
- Stockpiles of "cold mix"**
- Cover cold mix stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm all times.
- Stockpiles of fly ash, stucco, hydrated lime**
- Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with plastic and surround the stockpiles with a berm at all times.

WM-3 - STOCKPILE MANAGEMENT
NTS

Stockpile Management

WM-3

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniacal copper zinc arsenate)

- Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

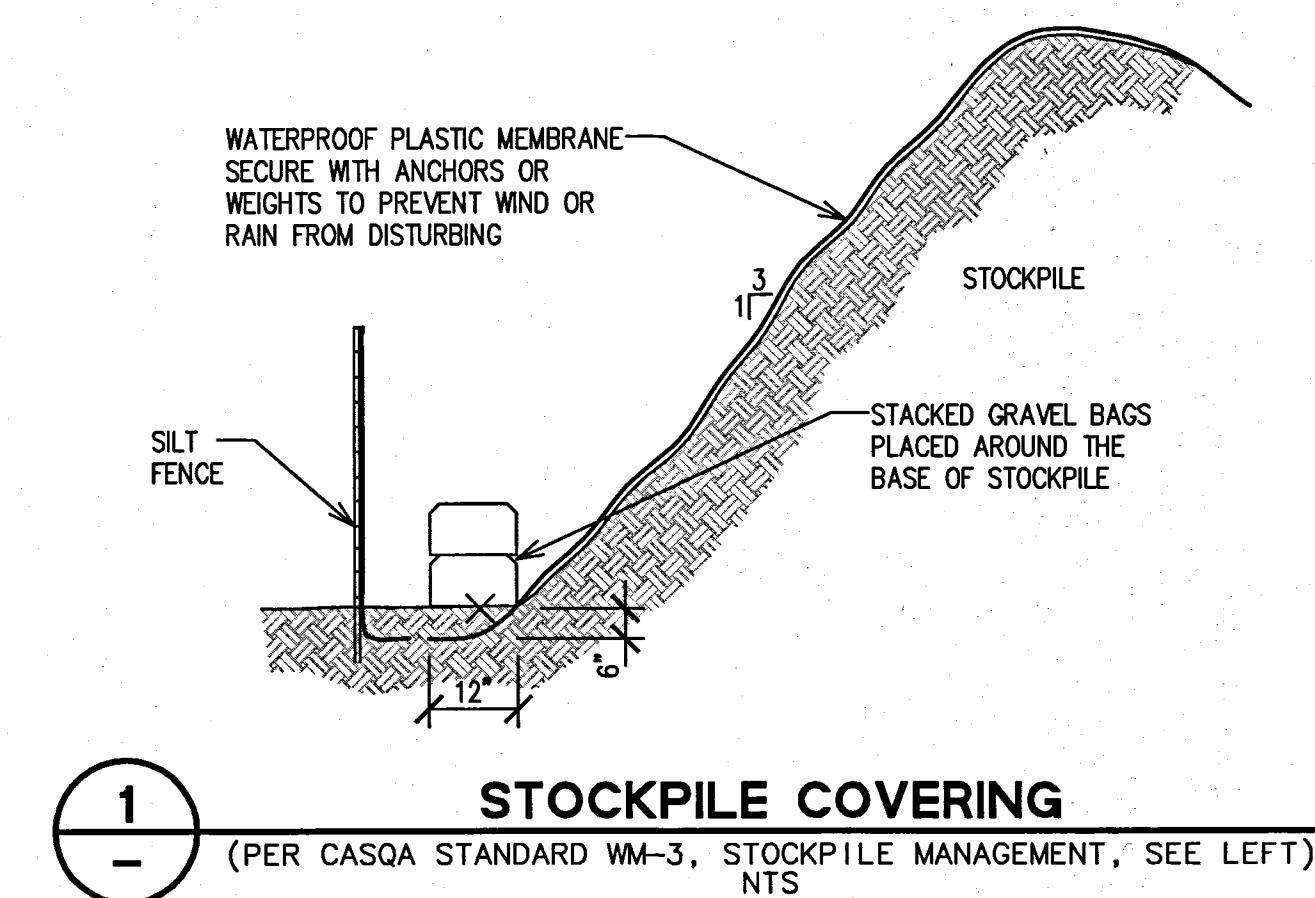
Protection of Active Stockpiles
Active stockpiles of the identified materials should be protected as follows:

- All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of "cold mix" and treated wood, and basic materials should be placed on and covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

Costs
For cost information associated with stockpile protection refer to the individual erosion or sediment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

- Inspection and Maintenance**
- Stockpiles must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
 - It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
 - Repair and/or replace perimeter controls and covers as needed to keep them functioning properly.
 - Sediment shall be removed when it reaches one-third of the barrier height.

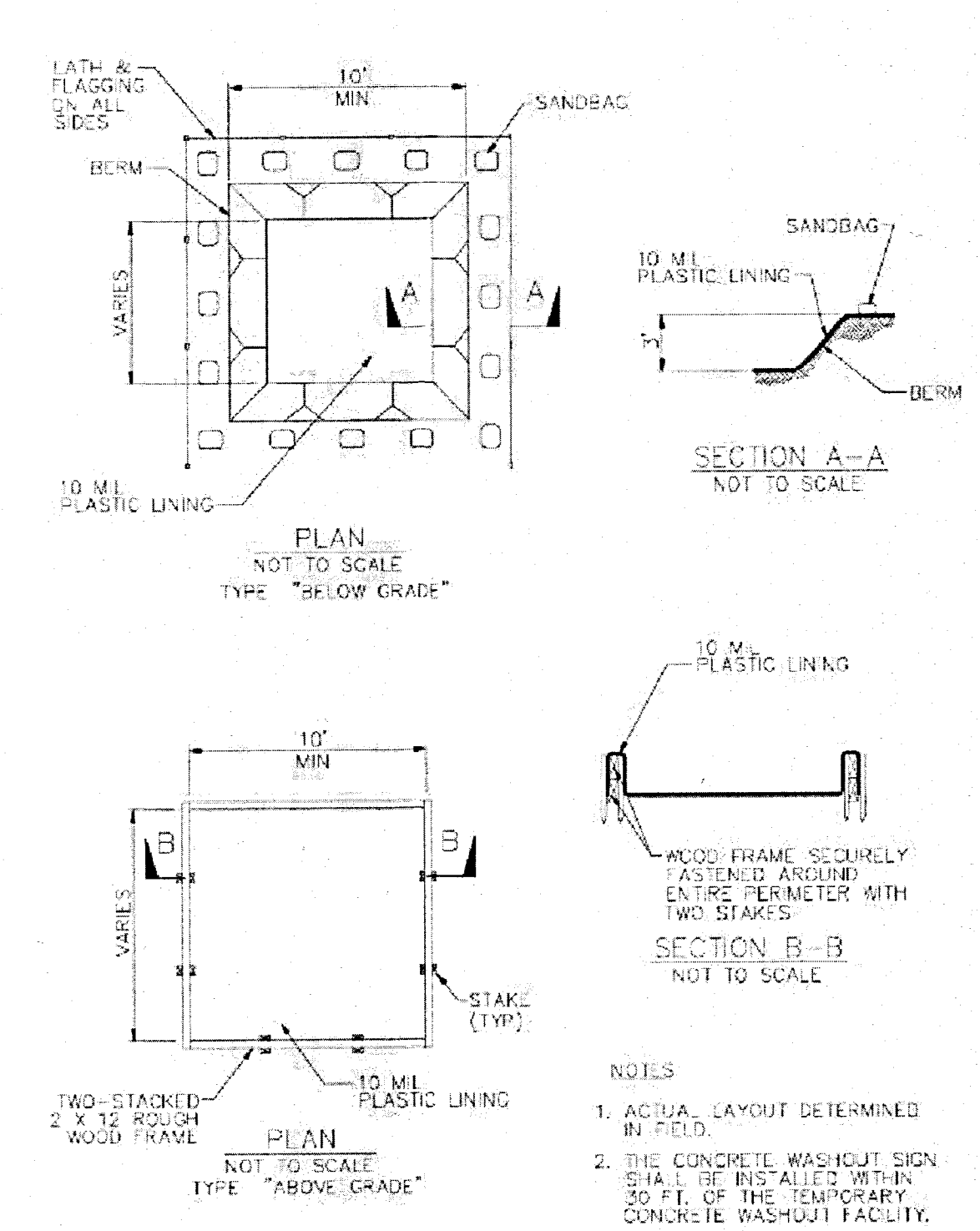
References
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.



1 STOCKPILE COVERING
(PER CASQA STANDARD WM-3, STOCKPILE MANAGEMENT, SEE LEFT) NTS

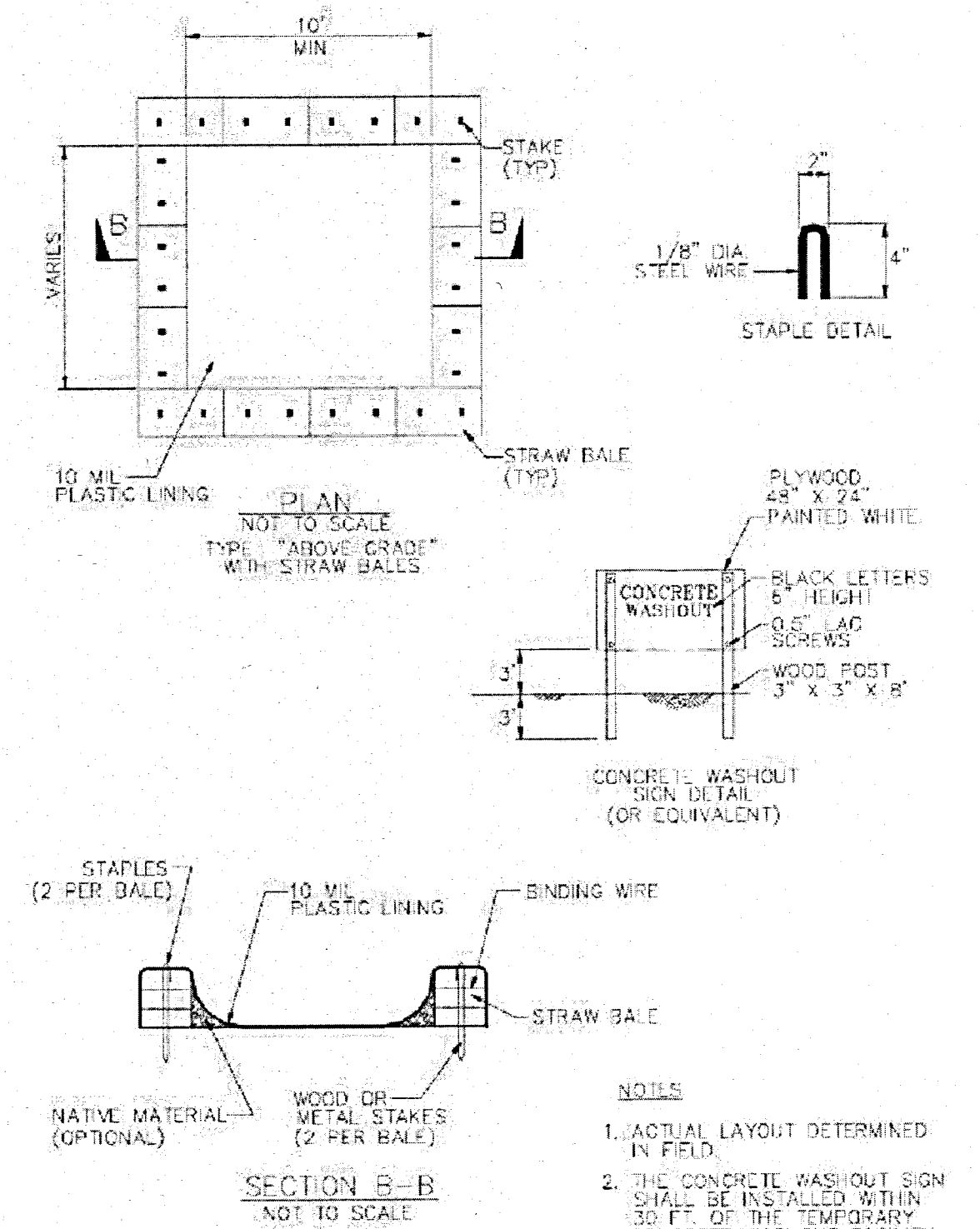
Concrete Waste Management

WM-8

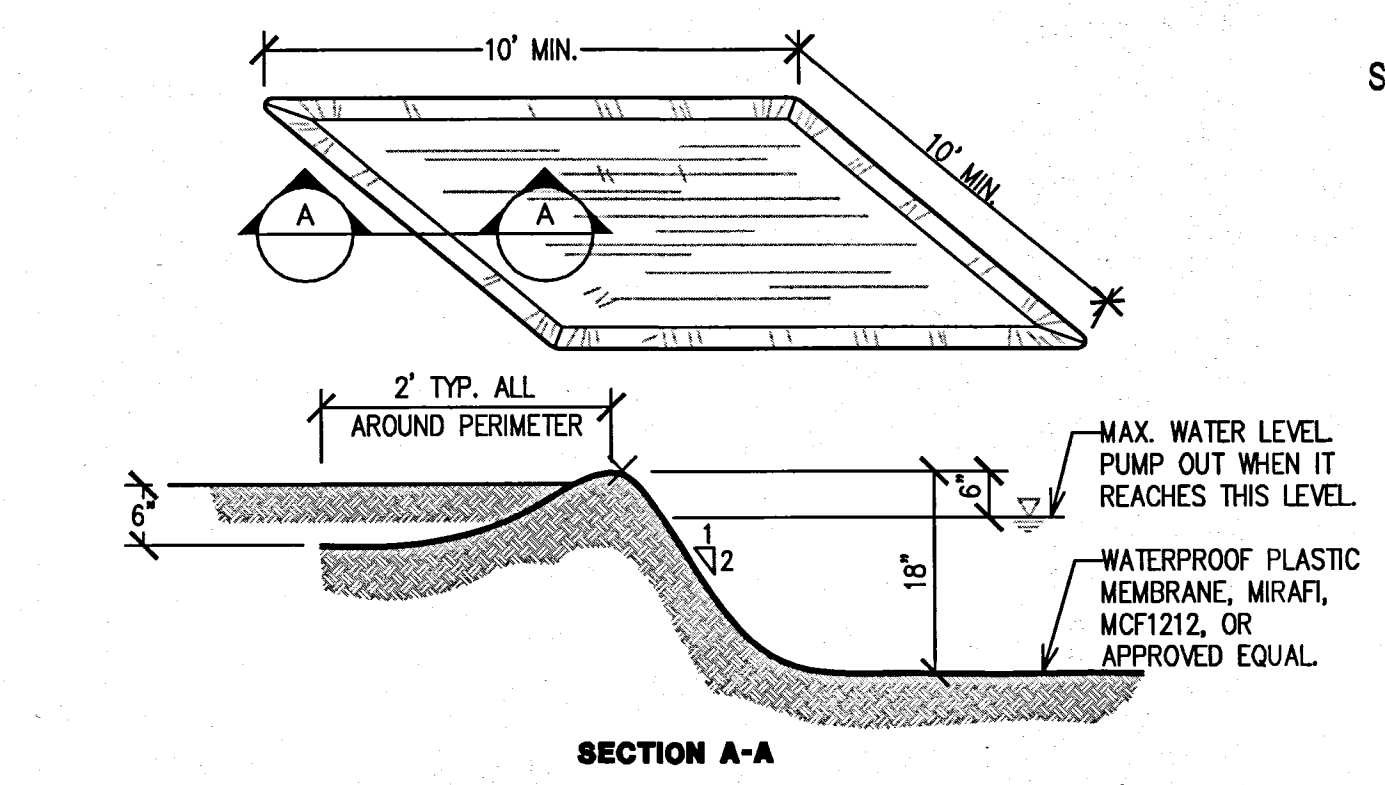


Concrete Waste Management

WM-8



WM-8 - CONCRETE WASTE MANAGEMENT
NTS

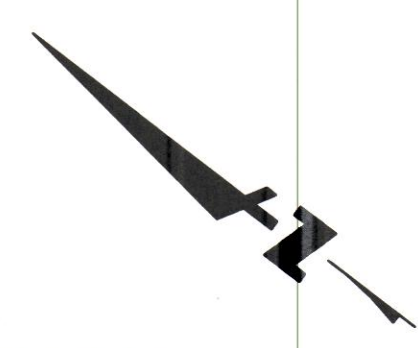
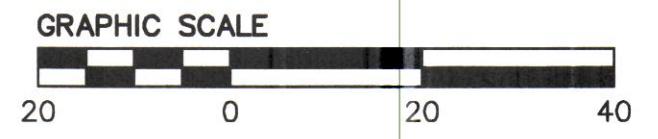
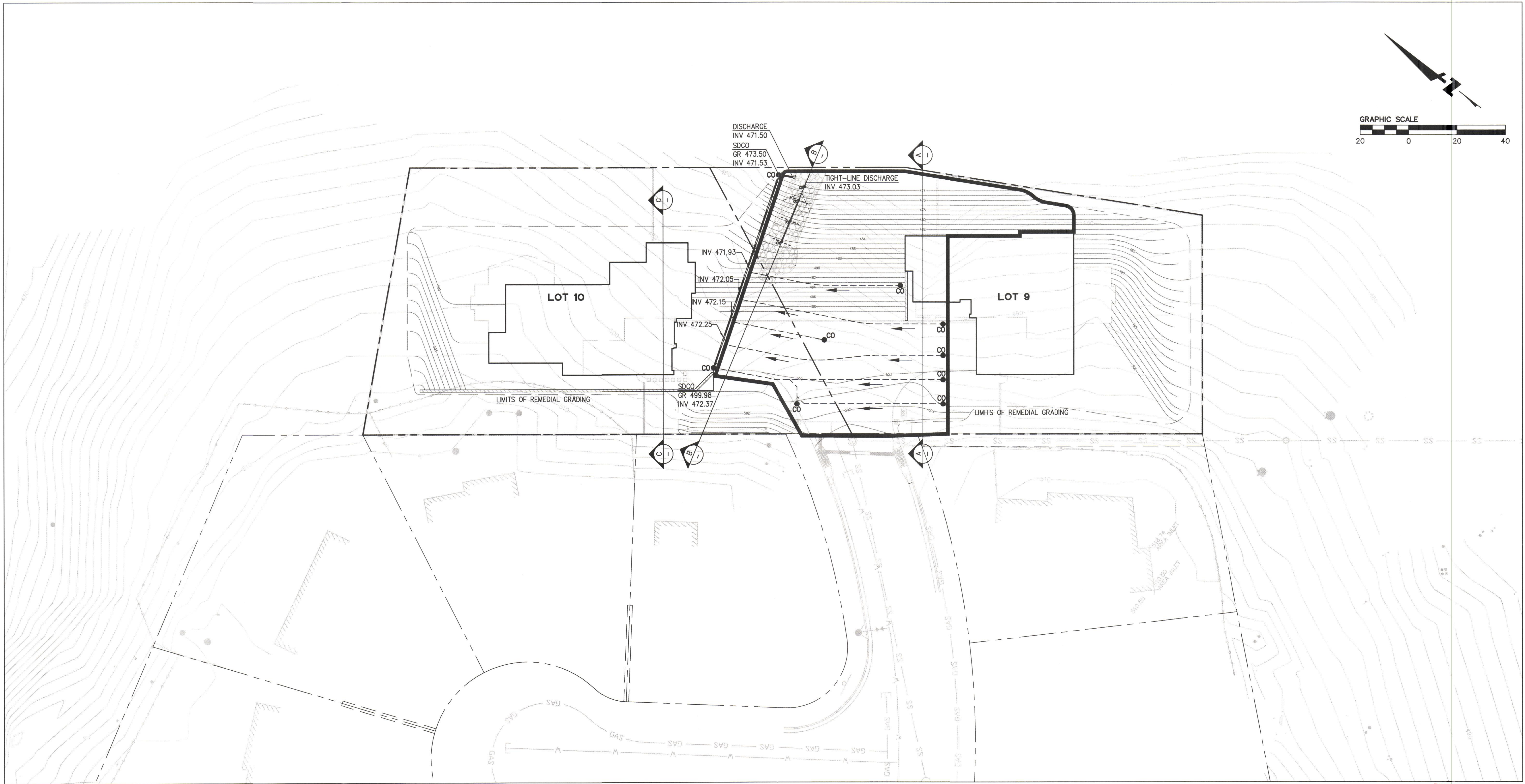


2 TEMPORARY WASHOUT PIT
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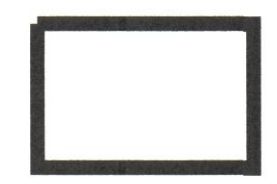
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HIGHLAND ESTATES
LOT 10 IMPROVEMENT PLANS
GEOTECHNICAL MITIGATION PLAN (LOTS 9 AND 10)
CITY OF SAN MATEO SAN MATEO COUNTY CALIFORNIA



LEGEND



AREA OF OVER-EXCAVATION, KEYING, AND BENCHING FOR FILL REMOVAL (I.E. REMEDIAL GRADING). (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION); ALSO SEE SHEETS C10.30, C10.40, C10.92, AND C10.93 FOR EARTHWORK, KEYING, BENCHING AND SUBDRAIN MITIGATION DETAILS.



4" PERFORATED SUBDRAIN FOR KEYWAY, NOTE THE FINAL LOCATIONS OF THE SUBDRAIN WILL BE DETERMINED BY CORNERSTONE DURING CONSTRUCTION, ARROW IS ANTICIPATED DIRECTION OF FLOW.

BKF HAS PREPARED THESE PLANS BASED ON CORNERSTONE EARTH GROUP GEOTECHNICAL INVESTIGATION. AND RECOMMENDATIONS.



JONATHAN TANG, P.E.



SCOTT E. FITTINGHOFF, P.E., G.E.

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation
of State or County building laws.

NOV 13 2019
SAN MATEO CO. BLDG. INSP. DIV.
John Brown

THE UNDERSIGNED GEOTECHNICAL ENGINEER HAS PERFORMED A GEOTECHNICAL INVESTIGATION AT THE SITE INCLUDING PERFORMING FIELD INVESTIGATION, LABORATORY TESTING, ENGINEERING ANALYSIS, AND REPORT PREPARATION AS DESCRIBED IN THE OCTOBER 30, 2015 REPORT BY CORNERSTONE EARTH GROUP, INC. FOR THE PROJECT. THE GEOTECHNICAL ASPECTS OF THESE PLAN SHEETS HAVE BEEN PREPARED AND REVIEWED BY THE UNDERSIGNED GEOTECHNICAL ENGINEER AND ARE BASED UPON LIMITATIONS DESCRIBED IN THE GEOTECHNICAL INVESTIGATION REPORT. THESE PLANS ARE NOT A STAND-ALONE DOCUMENT AND SHOULD BE CONSIDERED AS PART OF THE GEOTECHNICAL INVESTIGATION REPORT. THE GEOTECHNICAL DESIGN ASPECTS IN THESE PLANS ARE CONTINGENT UPON A GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST OBSERVING CERTAIN ASPECTS OF THE PROJECT GRADING. THESE PLANS ARE SUBJECT TO MODIFICATION AND REVISION DURING CONSTRUCTION BASED ON THE FIELD CONDITIONS ENCOUNTERED.

Revisions	
No.	Description

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Scale	1"=20'		
Design	RH		
Drawn	NH		
Approved	RH/JT		
Job No.	950188-20		

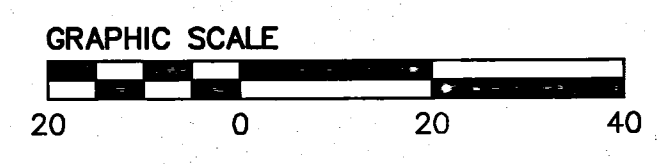
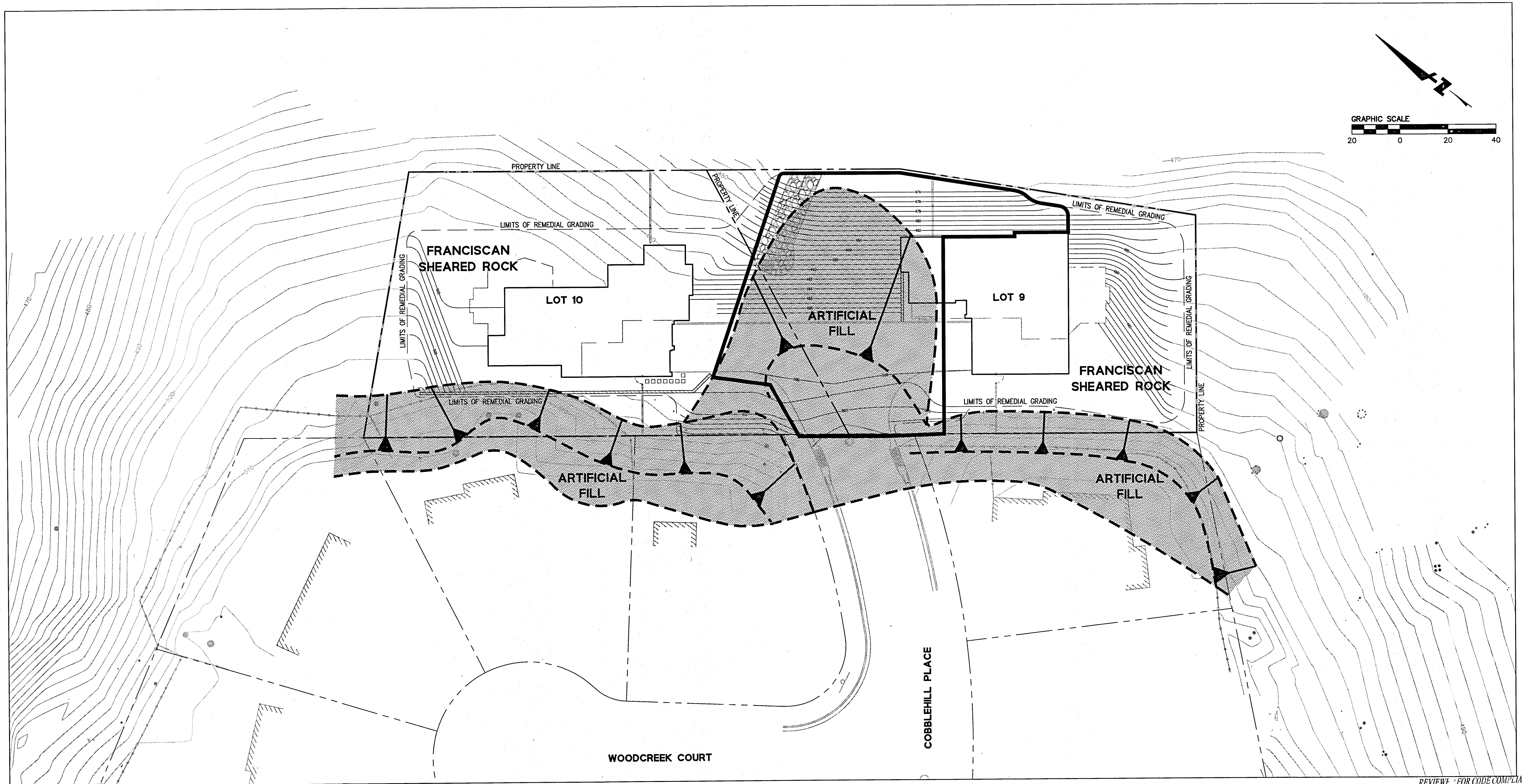
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PLOT DATE: 10-09-18 PLOTTED BY: hoit

265 SHORELINE DRIVE, SUITE 200
 REDWOOD CITY, CA 94065
 PHONE: (650) 482-6300
 FAX: (650) 482-6399







HIGHLAND ESTATES
 LOT 10 IMPROVEMENT PLANS
 GEOTECHNICAL MITIGATION KEYING AND BENCHING PLAN (LOTS 9 AND 10)
 CITY OF SAN MATEO SAN MATEO COUNTY CALIFORNIA



REVIEW FOR CODE COMPLIANCE
 This review does not authorize violation
 of State or County building laws.

OCT 13 2019
 SAN MATEO CO. BLDG. INSP. DIV.
[Signature]

LEGEND

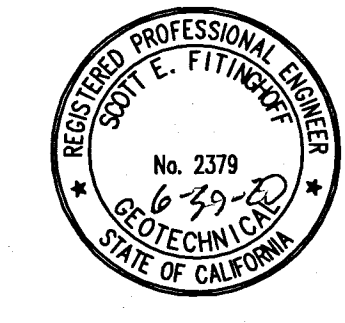
-  AREA OF OVER-EXCAVATION, KEYING, AND BENCHING FOR FILL REMOVAL (I.E. REMEDIAL GRADING). (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION); ALSO SEE SHEETS C10.30, C10.40, C10.91, AND C10.93 FOR EARTHWORK, KEYING, BENCHING AND SUBDRAIN MITIGATION DETAILS.
-  GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE)
-  APPROXIMATE AREA OF ARTIFICIAL FILL
-  FILL SLOPE

BKF HAS PREPARED THESE PLANS BASED ON CORNERSTONE EARTH GROUP GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS.

THE UNDERSIGNED GEOTECHNICAL ENGINEER HAS PERFORMED A GEOTECHNICAL INVESTIGATION AT THE SITE INCLUDING PERFORMING FIELD INVESTIGATION, LABORATORY TESTING, ENGINEERING ANALYSIS, AND REPORT PREPARATION AS DESCRIBED IN THE OCTOBER 30, 2015 REPORT BY CORNERSTONE EARTH GROUP, INC. FOR THE PROJECT. THE GEOTECHNICAL ASPECTS OF THESE PLAN SHEETS HAVE BEEN PREPARED AND REVIEWED BY THE UNDERSIGNED GEOTECHNICAL ENGINEER AND ARE BASED UPON LIMITATIONS DESCRIBED IN THE GEOTECHNICAL INVESTIGATION REPORT. THESE PLANS ARE NOT A STAND-ALONE DOCUMENT AND SHOULD BE CONSIDERED AS PART OF THE GEOTECHNICAL INVESTIGATION REPORT. THE GEOTECHNICAL DESIGN ASPECTS IN THESE PLANS ARE CONTINGENT UPON A GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST OBSERVING CERTAIN ASPECTS OF THE PROJECT GRADING. THESE PLANS ARE SUBJECT TO MODIFICATION AND REVISION DURING CONSTRUCTION BASED ON THE FIELD CONDITIONS ENCOUNTERED.



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 JONATHAN TANG, P.E.



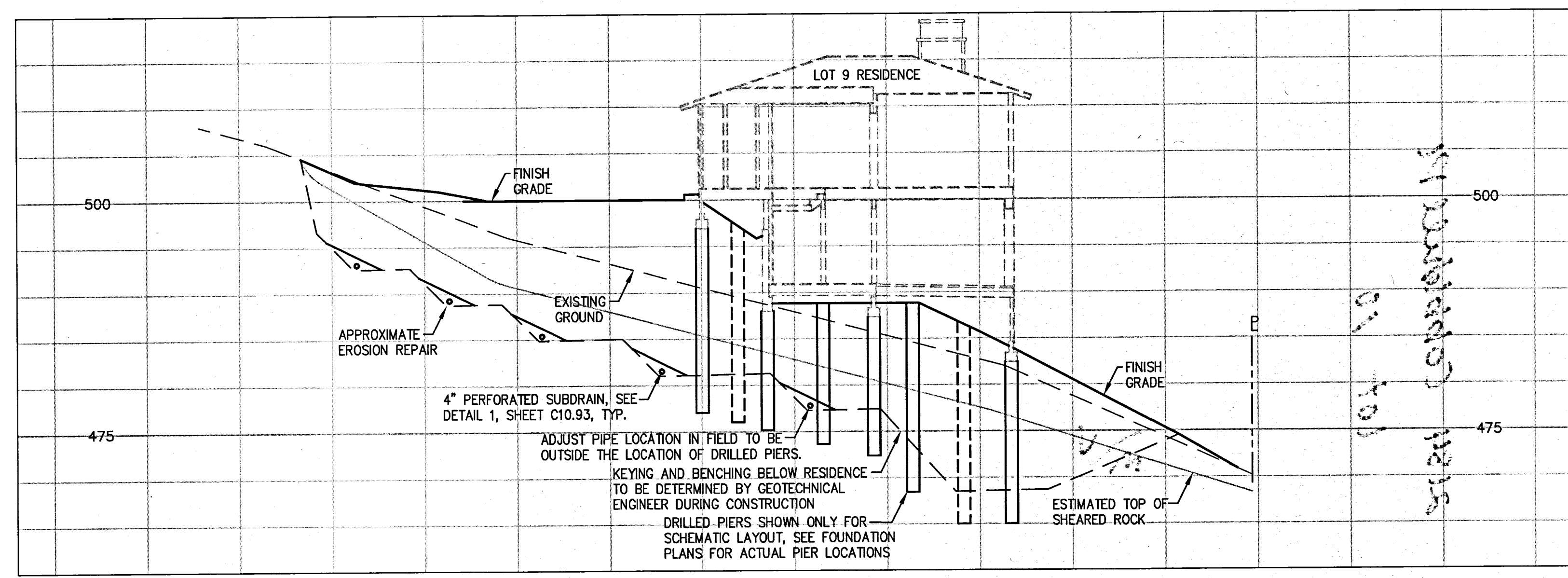
[Signature]
 SCOTT E. FITTINGHOFF, P.E., G.E.

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 OCT 14 2019
 SAN MATEO COUNTY

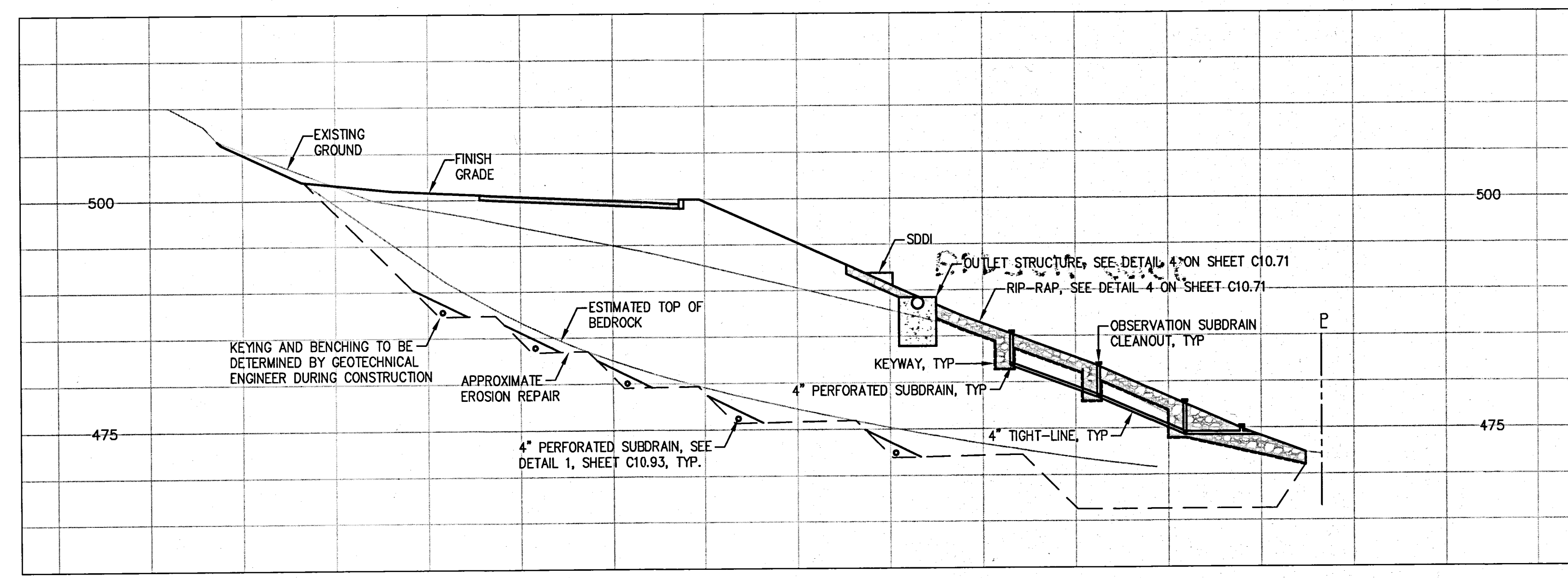
No.	Date	Scale	Design	Drawn	Approved	Job No.
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Sheet Number:
C10.92
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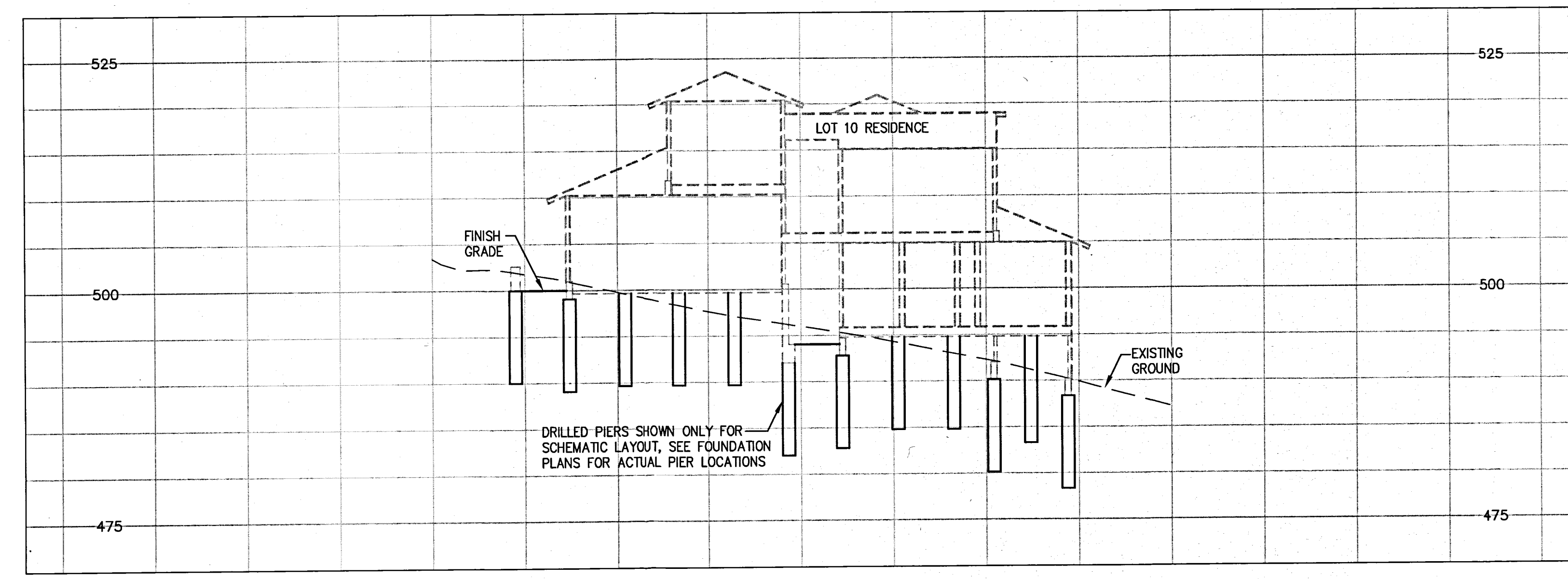
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 PLOT DATE: 10-09-18 PLOTTED BY: root



A-A CROSS SECTION
SCALE: 1"=10'



B-B CROSS SECTION
SCALE: 1"=10'



C-C CROSS SECTION
SCALE: 1"=10'

DRAINAGE MATERIAL

ALTERNATIVE 1

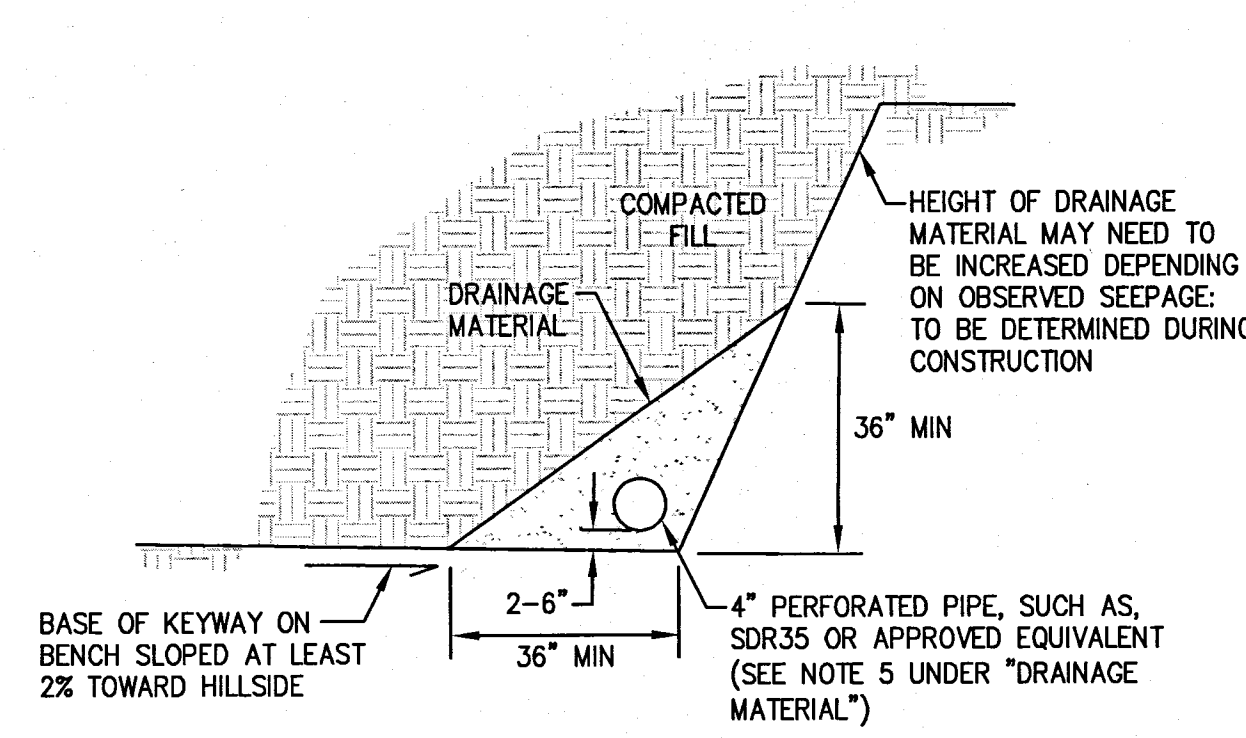
CLASS 2 PERMEABLE MATERIAL
(CALTRANS STANDARD SPECS LATEST EDITION)
MATERIAL SHALL CONSIST OF CLEAN, COARSE SAND AND GRAVEL OR CRUSHED STONE, CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	% PASSING SIEVE
1"	100
3/4"	90-100
3/8"	40-100
#4	25-40
#8	18-33
#30	5-15
#50	0-7
#200	0-3

ALTERNATIVE 2

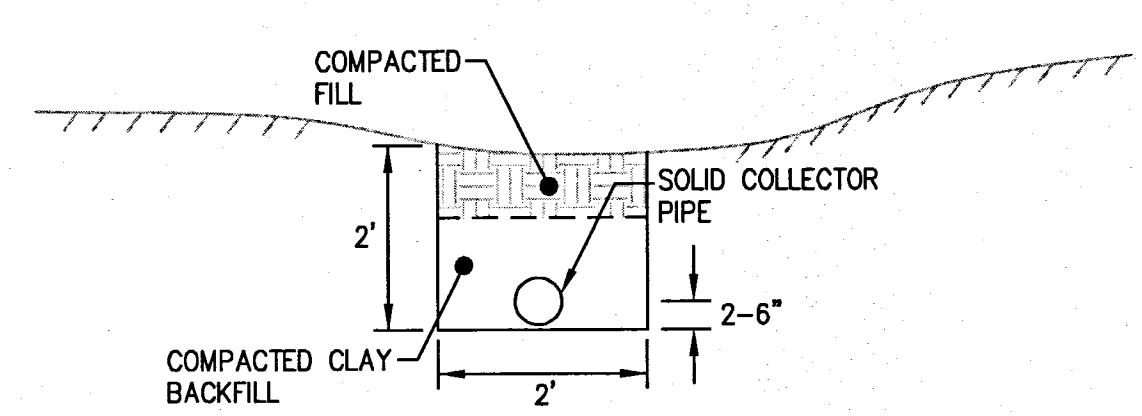
1/2 - TO 3/4- INCH CLEAN CRUSHED ROCK OR GRAVEL WRAPPED IN FILTER FABRIC
ALL NON-WOVEN FILTER FABRIC SHALL MEET THE FOLLOWING MINIMUM AVERAGE ROLL VALUES UNLESS OTHERWISE SPECIFIED BY CORNERSTONE EARTH GROUP

GRAB STRENGTH (ASTM D-4632):	180 LBS.
MASS PER UNIT AREA (ASTM D-4751):	5 OZ/YD
APPARENT OPENING SIZE (ASTM D-4751):	70-100 U.S. STD. SIEVE
FLOW RATE (ASTM D-4491):	80 GAL/MIN/FT
PUNCTURE STRENGTH (ASTM D-4833):	80 LBS.



DETAIL 1 - TYPICAL BENCH AND KEYWAY SUBDRAIN
NTS

- NOTES:
- 1% FALL (MINIMUM) ALONG ALL KEYWAYS, BENCHES AND SUBDRAIN LINES.
 - ALL PERFORATED PIPE PLACED PERFORATIONS DOWN.
 - ALL PIPE JOINTS SHALL BE GLUED.
 - ALL SUBDRAINS SHOULD BE DISCHARGED TO A FREE DRAINING OUTLET APPROVED BY THE CIVIL ENGINEER.
 - SUBDRAIN PIPE (PERFORATED OR SOLID CONNECTOR) SHOULD CONSIST OF SDR-35 PVC PIPE WHEN PLACED IN FILLS LESS THAN 30 FEET DEEP.
 - USE 4" PERFORATED PIPE ON KEYWAY OR BENCHES.
 - USE 6" SOLID PIPE FOR COLLECTOR PIPES OR 6" PERFORATED PIPE (DETAIL 2).
 - PIPE FITTINGS FOR CLEAN-OUTS AND OTHER 90° BENDS IN THE SUBDRAIN SYSTEM (EXCEPT THE CONNECTION BETWEEN THE 4" PERFORATED PIPES AND 6" COLLECTION PIPES) SHOULD BE "SWEEP 90'S" OR OTHER APPROVED EQUIVALENT.
 - CONTRACTOR TO PROVIDE ALL INCIDENTAL FITTINGS IN THEIR BID PRICE TO CONSTRUCT THE SUBDRAIN SYSTEM. NOT ALL INCIDENTAL FITTINGS ARE SHOWN ON THESE PLANS.
 - FINAL SUBDRAIN LAYOUT AND PLACEMENT TO BE DETERMINED BY GEOTECHNICAL ENGINEER AT TIME OF CONSTRUCTION. SUBDRAIN SHALL NOT CONFLICT WITH DRILLED PIERS.



DETAIL 2 - SOLID COLLECTOR PIPE DETAIL
NTS

- NOTES:
- THIS AREA MAY HAVE ACTIVE SEEPAGE DURING CONSTRUCTION.
 - COLLECTOR PIPE SHOULD BE 6" PERFORATED PIPE, SUCH AS SDR-35 OR SDR-23.5 OR APPROVED EQUIVALENT (SEE DETAIL 1 NOTE 5 UNDER "DRAINAGE MATERIAL").
 - PIPE FITTINGS FOR CLEAN-OUTS AND OTHER 90° BENDS IN THE SUBDRAIN SYSTEM (EXCEPT THE CONNECTION BETWEEN THE 4" PERFORATED PIPES AND 6" COLLECTION PIPES) SHOULD BE "SWEEP 90'S" OR OTHER APPROVED EQUIVALENT.
 - CONTRACTOR TO PROVIDE ALL INCIDENTAL FITTINGS IN THEIR BID PRICE TO CONSTRUCT THE SUBDRAIN SYSTEM. NOT ALL INCIDENTAL FITTINGS ARE SHOWN ON THESE PLANS.
 - FINAL SUBDRAIN LAYOUT AND PLACEMENT TO BE DETERMINED BY GEOTECHNICAL ENGINEER AT TIME OF CONSTRUCTION.

REVIEWED FOR CODE COMPLIANCE
This review is not authorized violation
of State or County building laws.

11/13/2019
SAN MATEO CO. BLDG. INSP. DIV.

THE UNDERSIGNED GEOTECHNICAL ENGINEER HAS PERFORMED A GEOTECHNICAL INVESTIGATION AT THE SITE INCLUDING PERFORMING FIELD INVESTIGATION, LABORATORY TESTING, ENGINEERING ANALYSIS, AND REPORT PREPARATION AS DESCRIBED IN THE OCTOBER 30, 2015 REPORT BY CORNERSTONE EARTH GROUP, INC. FOR THE PROJECT. THE GEOTECHNICAL ASPECTS OF THESE PLAN SHEETS HAVE BEEN PREPARED AND REVIEWED BY THE UNDERSIGNED GEOTECHNICAL ENGINEER AND ARE BASED UPON LIMITATIONS DESCRIBED IN THE GEOTECHNICAL INVESTIGATION REPORT. THESE PLANS ARE NOT A STAND-ALONE DOCUMENT AND SHOULD BE CONSIDERED AS PART OF THE GEOTECHNICAL INVESTIGATION REPORT. THE GEOTECHNICAL DESIGN ASPECTS IN THESE PLANS ARE CONTINGENT UPON A GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST OBSERVING CERTAIN ASPECTS OF THE PROJECT GRADING. THESE PLANS ARE SUBJECT TO MODIFICATION AND REVISION DURING CONSTRUCTION BASED ON THE FIELD CONDITIONS ENCOUNTERED.

BKF HAS PREPARED THESE PLANS BASED ON CORNERSTONE EARTH GROUP GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS.



JONATHAN TANIG, P.E.



SCOTT E. FITTINGHOFF, P.E., G.E.

No.	Date	Scale	AS SHOWN	Design	RH	NH	Drawn	Approved	RH/JT	Job No.
	10/8/2018									950168-20

Sheet Number:
C10.93
OF

**Grading, Erosion Control, and Construction Process Details
from NexGen for Winter Grading for Lots 9 and 10**
Date: October 29, 2019

NOTE ON LOT 11: There will be no work (vegetation/tree removal, grading, etc.) on Lot 11 until Spring 2020. No materials or trash shall be stored on Lot 11 until a building permit is issued for construction on that lot. The applicant will notify the County when work will begin on Lot 11; a separate Exception to the Winter Grading Moratorium from the Community Development Director is required for any work that will occur during the wet season (October 1 - April 30).

NexGen (Noel Chamberlain and Bob Pellegrine): We will start work on Lot 9 first. Overall grading duration is expected to be approximately 8-10 weeks to complete building pads on Lots 9 and 10.

- Clearing and Grubbing (1 week):** First stage of grading will be tree removal, clearing and grubbing of the pad site. Green waste will be trucked off site to Ox Mountain for disposal.
- Excavation of Keyway (1 week):** After clearing, we will excavate approximately 800 yards in order to establish our grading key way. The 800 yards will be stock piled and covered until the key is established. Soil will be sorted by spreading and raking soils to remove organics and unsuitable soil. Organics and unsuitable soil will be off-hauled to Ox Mountain and suitable soil will be stockpiled and re-used. The stockpile will be located in flatter areas of the site in the area of the building pad. Over the weekends and in the event of rain, NexGen will use geotextile blankets secured by U-shaped pins to protect stockpiles and all graded areas, as well as fiber rolls along the perimeter of stockpiles and graded areas. All grading activities will cease prior to the onset of rain, with adequate time for the site to be fully protected.
- Fill Importation and Soil Compaction (4 weeks):** After completion of the key, we will compact the onsite 800 c.y. stock pile. We will need an additional 1100 yards of fill from an offsite source. NexGen will use 6-wheelers, high-sided dump trucks (approx. capacity 11 c.y.), which are smaller than the standard 8-wheeler dump trucks (approx. 15 c.y.) and can better navigate the residential streets. We will bring up the pad in vertical lifts of 1 foot in depth. NexGen will compact all lifts by end of day and ensure that all remaining stock piled materials are securely covered and contained. After the 800 cubic yards of stockpiled materials have been used, NexGen will only import as much soil per day as can be applied to the site and protected that day. The onsite equipment will be an excavator, compactor, and skip loader backhoe. During the compaction stage, NexGen will use visqueen to cover compacted areas, along with fiber rolls along the edges of the visqueen, where fiber rolls are weighed down by rock/sand bags every 3-5 feet. All grading activities will cease prior to the onset of rain, with adequate time for the site to be fully protected.

19 Richard Paris



8125019-00128



SETBACK REQUIREMENTS	
MINIMUM	APPROVED
Front	22.62
Rear	46.14
Rt. Side	31.17
Lt. Side	24.50
Other	

- Pier Drilling (2 weeks):** Pier sizes for the project are a combination of 24", 18" and 12" in diameter. Depth of piers will be determined by the soils engineer, who will observe pier construction. Pier drilling will take approximately 5 days to complete per house. Pier spoils (approximately 70 c.y. per house) will be collected and stockpiled and securely covered and contained daily. Usable pier spoil material will be stockpiled on-site and re-used. Unsuitable material will be stockpiled and off-hauled to Ox Mountain. Stockpiles will be located in flatter areas of the site in the area of the building pad. No drilling or other earth moving activities will occur in the event of rain.
- Pier Pouring and Curing (2 weeks):** Each house will require 2 piers (1 for the upper level and 1 for the lower level). Each pour will take about 2-3 days (time includes 1 day for pier inspection). There will be 30 days between each pour. Piers will be poured in by a concrete boom pump. The pump and concrete trucks will stage on the construction entrance. Piers do not need to be protected from the rain; rain does not affect their curing. NexGen will continue to protect exposed/disturbed soil as described above.

We agree to carry out construction of houses on Lots 9 and 10 according to the above process, as well as to comply with "Chamberlain Lots 9-10, Construction and Grading Requirements Reminder, dated October 29, 2019". Both documents will be included in the construction plans.

[Signature] 10/31/2019
Noel Chamberlain Date

[Signature] 10-31-2019
Bob Pellegrine Date

Chamberlain Lots 9 and 10, Construction and Grading Requirements Reminder
Date: October 29, 2019

Grading:

- Applicant shall obtain authorization from the Community Development Director or his designee, prior to the initiation of each phase of the winter grading plan, in order to confirm that no rain events are predicted to occur during the planned duration of that phase.
- If the grading period for any phase must be extended, provide an updated schedule to the project planner.
- Grading may occur only on dry days. No grading shall occur within 24-hours after a rain event.
- All grading work shall stop 48-hours prior to a predicted major rain event and the site shall be stabilized.
- After a major rain event, prior to re-start of grading work, the Building Inspection Section Manager or his designee shall inspect the site and identify necessary corrections. Corrections shall be completed prior to re-start of grading.
- Applicant shall send photos of final stabilization to the project planner within one week of completion of grading.

Grading/Construction Traffic:

- DPW has approved the construction management plan which limits construction traffic on Ticonderoga Road to the hours of 9:00 a.m. to 2:00 p.m. during weekdays.
- Per the City of San Mateo Department of Public Works, use of De Anza Boulevard is prohibited, as De Anza Boulevard is not a designated truck route.

Dust Control/Air Quality Guidelines:

Upon the start of grading activities and through to the completion of the project, the applicant shall be responsible for ensuring that the following dust control guidelines are implemented:

- All graded surfaces and materials, whether filled, excavated, transported or stockpiled, shall be wetted, protected or contained in such a manner as to prevent any significant nuisance from dust, or spillage upon adjoining water body, property, or streets. Equipment and materials on the site shall be used in such a manner as to avoid excessive dust. A dust control plan may be required at anytime during the course of the project.
- A dust palliative shall be applied to the site when required by the County. The type and rate of application shall be recommended by the soils engineer and approved

by the Department of Public Works, the Planning and Building Department's Geotechnical Section, and the Regional Water Quality Control Board.

Mitigation Measure AQ-1: The Project Applicant shall require that the following BAAQMD recommended and additional PM10 reduction practices be implemented by including them in the contractor construction documents:

The first phase of construction shall require 30 percent of construction equipment to meet Tier 1 EPA certification standards for clean technology. The remainder of construction equipment (70 percent), which would consist of older technologies, shall be required to use emulsified fuels.

- The second phase of construction shall require 30 percent of construction equipment to meet Tier 2 EPA certification standards for clean technology and 50 percent to meet Tier 1 EPA certification standards. The remaining 20 percent of construction equipment, which would consist of older technologies, shall use emulsified fuels.
- For all larger vehicles, including cement mixers or other devices that must be delivered by large trucks, vehicles shall be equipped with CARB level three verified control devices.
- Water all active construction areas at least twice daily.
- Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard.
- Pave, apply water three times daily, or apply non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at the construction sites.
- Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at the construction sites.
- Sweep public streets adjacent to construction sites daily (with water sweepers) if visible soil material is carried onto the streets.
- Hydroseed or apply non-toxic soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more).
- Enclose, cover, water twice daily, or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.). Limit traffic speeds on unpaved roads to 15 miles per hour.
- Limit traffic speeds on unpaved roads to 15 miles per hour.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways.
- Replant vegetation in disturbed areas as soon as possible.

- Install wheel washers for all exiting trucks or wash off the tires or tracks of all trucks and equipment leaving the construction site.
- Install wind breaks at the windward sides of the construction areas.
- Suspend excavation and grading activities when wind (as instantaneous gusts) exceeds 25 miles per hour.

Noise Control:

Mitigation Measure NOI-1: The Project Applicant shall require that the following noise reduction practices be implemented by including them in the contractor construction documents:

- Equipment and trucks used for project grading and construction would utilize the best available noise control techniques (e.g., improved exhaust mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures, and acoustically-attenuating shields or shrouds) in order to minimize construction noise impacts.
- Equipment used for project grading and construction would be hydraulically or electrically powered impact tools (e.g., jack hammers and pavement breakers) wherever possible to avoid noise associated with compressed air exhaust from pneumatically-powered tools. Compressed air exhaust silencers would be used on other equipment. Other quieter procedures would be used such as drilling rather than impact equipment whenever feasible.
- The grading and construction activity would be kept to the hours of 7:00 AM to 7:00 PM, Monday through Friday. Saturday hours (8:00 AM to 5:00 PM) are permitted upon the discretion of County approval based on input from nearby residents and businesses. Saturday construction (8:00 AM to 5:00 PM) would be allowed once the buildings are fully enclosed. Noise generating grading and construction activities shall not occur at any time on Sundays, Thanksgiving and Christmas.

RESUBMITTAL
OCT 31 2019
San Mateo County
Building Inspection

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.

NOV 13 2019
SAN MATEO CO. BLDG. INSP. DIV.
[Signature]

2016-00158

FILE COPY

TICONDEREOGA PARTNERS, LLC

' HIGHLAND ESTATES, LOT 10 '

SAN MATEO COUNTY, CALIFORNIA

Lot Coverage

PER AGREEMENT BETWEEN COUNTY AND BUILDER
 MAXIMUM SQUARE FOOTAGE FOR RESIDENCE ON
 LOT NO. 10 TO BE 5,931

OWNER:

TICONDEREOGA PARTNERS, LLC
 655 SKY WAY, SUITE 200
 SAN CARLOS, CA 94070

PH. 650-2595-5982 FAX 605-585-5066

ARCHITECT:

MARK GROSE & ASSOCIATES, INC.
 880 ESCAROT DRIVE
 RYDLE, CALIFORNIA 92618

PH. 949/387-3800 FAX 949/387-7800

STRUCTURAL ENGINEER:

ESI / FME, INC.
 1800 E. 16th STREET
 SANTA ANA, CALIFORNIA 92701

PH. 714/835-2800 FAX 714/835-2819

TITLE 24:

RICK MAUER
 7544 EAST SADDLEHILL TRAIL
 ORANGE, CALIFORNIA 92669

PH. 714/771-1507 FAX 714/771-2838

APPLICABLE CODES:

- 2013 CALIFORNIA BUILDING CODE
- 2013 CALIFORNIA RESIDENTIAL CODE
- 2013 CALIFORNIA ELECTRICAL CODE
- 2013 CALIFORNIA MECHANICAL CODE
- 2013 CALIFORNIA PLUMBING CODE
- 2013 BUILDING ENERGY EFFICIENCY STANDARDS
- 2013 CALIFORNIA FIRE CODE
- 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE

PROJECT DATA:

- * OCCUPANCY GROUP: R-3, U
- * TYPE OF CONSTRUCTION: V-B
- * STORIES: 2 WITH SPLIT-LEVELS

* THE RESIDENCE WILL REQUIRE AN NEPA. A LICENSED C-16 CONTRACTOR WILL NEED TO SUBMIT A SEPARATE SET OF PLANS AND BUILDING DIVISION PLANNING AND BUILDING DIVISION.

* SEE SHEETS T-24.2 & CG.2 FOR ENERGY REQUIREMENTS FOR THIS PROJECT.

AREA TABULATION:

LOT No. 10

LOWER LEVEL FLOOR PLAN	: 743 SQ.FT.
MAIN LEVEL FLOOR PLAN	: 2,070 SQ.FT.
UPPER LEVEL FLOOR PLAN	: 618 SQ.FT.
TOTAL	: 3,431 SQ.FT.
2-CAR w/ TANDEM GARAGE	: 738 SQ.FT.
COVERED DECK	: 278 SQ.FT.
ENTRY PORCH	: 97 SQ.FT.

INDEX:

- A-1 COVER SHEET
- GN-1 GENERAL NOTES
- GN-2 GENERAL NOTES
- GN-3 GENERAL NOTES

ARCHITECTURAL PLANS

- LOT_10
- 10-1 SLAB PLAN
- 10-2 LOWER LEVEL FLOOR PLAN
- 10-3 MAIN LEVEL FLOOR PLAN
- 10-4 UPPER LEVEL FLOOR PLAN
- 10-5 INTERIOR ELEVATIONS, NOTES & SCHEDULES
- 10-6 BUILDING SECTIONS
- 10-7 BUILDING SECTIONS
- 10-8 BUILDING SECTIONS
- 10-9 BUILDING SECTIONS
- 10-10 EXTERIOR ELEVATIONS AND ROOF PLAN
- 10-11 EXTERIOR ELEVATIONS
- 10-12 EXTERIOR ELEVATIONS
- 10-13 LOWER LEVEL UTILITY PLAN
- 10-14 MAIN LEVEL UTILITY PLAN
- 10-15 UPPER LEVEL UTILITY PLAN

DETAILS

- D-1 CONSTRUCTION DETAILS
- D-2 CONSTRUCTION DETAILS
- D-3 CONSTRUCTION DETAILS
- D-4 CONSTRUCTION DETAILS

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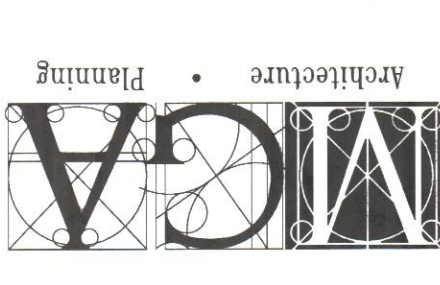
- T-24.1 ENERGY NOTES & REQUIREMENTS
- T-24.2 ENERGY COMPLIANCE
- CG CAL GREEN REQUIREMENTS

STRUCTURAL

- NOTES
- 96N GENERAL STRUCTURAL NOTES & DETAILS
- LOT_NO_10
- S10-1 FOUNDATION PLAN
- S10-2 FOUNDATION & FIRST FLOOR FRAMING PLAN
- S10-3 SECOND FLOOR FRAMING PLAN
- S10-4 ROOF FRAMING PLAN

STRUCTURAL DETAILS

- S101 STRUCTURAL DETAILS
- S102 STRUCTURAL DETAILS
- S103 STRUCTURAL DETAILS
- S104 HARDY FRAME
- FRMG



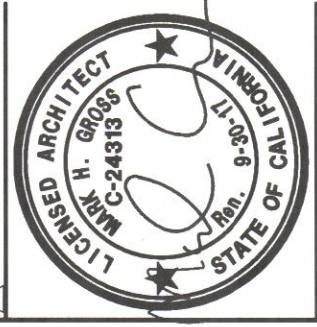
Mark Gross & Associates, Inc.
 8801 Research Drive
 San Carlos, CA 94068
 (415) 387-3800 Fax (415) 387-7800

FILE COPY

HIGHLAND ESTATES, LOT 10
 2184 COBBLEHILL PLACE
 SAN MATEO, CALIFORNIA
 TICONDEREOGA PARTNERS, LLC
 465 SKY WAY, SUITE 200
 SAN CARLOS, CALIFORNIA 94070
 PHONE (510) 595-5882 FAX (510) 595-0888

COVER SHEET
 LOT No. 10

DESIGNED BY
 CHECKED BY
 DATE
 SHEET NO.



ALL DIMENSIONS & CONDITIONS
 UNLESS OTHERWISE NOTED
 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF
 CALIFORNIA BUILDING CODES

FILE COPY

REQUIRED FOR CODE COMPLIANCE
 The review of this document is not an endorsement
 of State or County building laws.
 NOV 13 2018
 SAN MATEO CO. BLDG. INSP. DIV.
 Building Inspection

RESUBMITTAL
 FEB 16 2017
 San Mateo County
 Building Inspection

GREEN BUILDING STANDARDS (CONTINUED)

- EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING PER CBS&C, SECTION 4.506.1:
 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 3. CONTROLS MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 b. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTERAL (E.G. BUILT-IN).
 4. WHOLE HOUSE EXHAUST FANS SHALL HAVE INSULATED LOWERS OR COVERS WHICH CLOSED WHEN THE FAN IS OFF. COVERS OR LOWERS SHALL HAVE A MINIMUM INSULATION VALUE OF R-4.2. CA GREEN BUILDING STANDARDS CODE, SECTION 4.507.
- HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS, PER CBS&C, SECTION 4.507:
 1. LIGHT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J - 2004 RESIDENTIAL LOAD CALCULATION, ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
 2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D - 2009 RESIDENTIAL DUCT SYSTEMS ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
 3. EQUIVALENT DESIGN SOFTWARE OR METHODS ACCORDING TO ANSI/ACCA 3 MANUAL S - 2004 RESIDENTIAL EQUIPMENT SELECTION OR OTHER EXCEPTION USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.

GREEN BUILDING STANDARDS

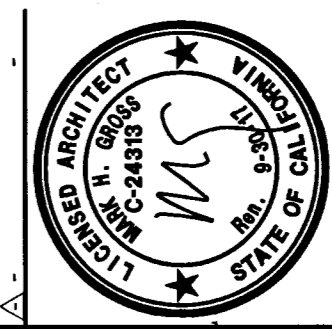
- PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE SHALL MANAGE SLOW WATER DRAINAGE DURING CONSTRUCTION. CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.002.
- THE SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER FROM ENTERING BUILDINGS. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE NOT LESS THAN ONE VERTICAL UNIT IN TWENTY HORIZONTAL UNITS. A DRAINAGE SWALE SHALL BE PROVIDED TO RECEIVE SURFACE WATER FROM THE BUILDING. SWALES SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE NOT LESS THAN ONE VERTICAL UNIT IN TWENTY HORIZONTAL UNITS. A SIX INCH DRAINAGE SWALE SHALL BE PROVIDED TO AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2% WHERE LOCATED WITHIN 10'-0" OF THE BUILDING. CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.003.
- THERE SHALL BE NO DRAINAGE TO ADJACENT PROPERTY.
- PLUMBING FIXTURES WATER CLOSETS AND URINALS AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING PER CBS&C, SECTION 4.502:
 1. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 128 GALLONS PER FLUSH. TANK TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILETS PER CBS&C, SECTION 4.502.1.
 NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.
 2. THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH, PER CBS&C, SECTION 4.502.2.
 3. SHOWERHEADS:
 a. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS PER CBS&C, SECTION 4.502.3.1.
 b. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER HEADS SHALL NOT EXCEED 2.5 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS PER CBS&C, SECTION 4.502.3.2.
 c. TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME PER CBS&C, SECTION 4.502.3.3.
 NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
 4. FAUCETS:
 a. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 80 PSI. THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 80 PSI PER CBS&C, SECTION 4.503.1.4.
 b. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI. KITCHEN FAUCETS MAY EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI WHERE THE FAUCETS ARE INSTALLED IN A COMMERCIAL KITCHEN OR WHERE THE FAUCETS ARE INSTALLED IN A RESIDENTIAL KITCHEN AND ARE USED FOR COMMERCIAL PURPOSES.
 c. THE MAXIMUM FLOW RATE OF SINK FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI PER CBS&C, SECTION 4.503.1.4.
 NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
 5. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1401 OF THE CALIFORNIA PLUMBING CODE.
 6. OUTDOOR WATER USE: AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING PROVIDED BY THE BUILDER AND INSTALLED AT THE TIME OF CONSTRUCTION SHALL BE WEATHER-OR SOIL-MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN WEATHER-OR SOIL-MOISTURE-BASED CONTROLLERS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL BE INSTALLED. CONTROLLERS SHALL HAVE A SEPARATE WIRELESS RAIN SENSOR WHICH CONNECTS WITH THE CONTROLLER. SOIL-MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT. MORE INFORMATION AVAILABLE FROM THE IRRIGATION ASSOCIATION.
 7. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50% OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 4.004.4. EXCEPTIONS:
 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
 2. MATERIALS LOCATED IN AREAS BEHIND THE MAIN BOUNDARIES OF THE DIVISION FACILITY, PER CBS&C, SECTION 4.004.4.1.
 3. MATERIALS LOCATED IN AREAS BEHIND THE MAIN BOUNDARIES OF THE DIVISION FACILITY, PER CBS&C, SECTION 4.004.4.2.
 4. MATERIALS LOCATED IN AREAS BEHIND THE MAIN BOUNDARIES OF THE DIVISION FACILITY, PER CBS&C, SECTION 4.004.4.3.
 5. MATERIALS LOCATED IN AREAS BEHIND THE MAIN BOUNDARIES OF THE DIVISION FACILITY, PER CBS&C, SECTION 4.004.4.4.
 8. OPERATION AND MAINTENANCE MANUAL AT THE TIME OF FINAL INSPECTION A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA WHICH INCLUDES ALL THE FOLLOWING SHALL BE PLACED IN THE BUILDING, PER CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 4.010.
 1. DIRECTIONS TO THE OWNER THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
 2. DIRECTIONS AND PROCEDURES FOR INSPECTION AND MAINTENANCE OF THE BUILDING.
 3. APPLIANCES AND EQUIPMENT, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES.
 4. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
 5. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
 6. LANDSCAPE IRRIGATION SYSTEMS.
 7. WATER REUSE SYSTEMS.
 8. UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
 9. PUBLIC TRANSPORTATION AND/ OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
 10. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60% AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
 11. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
 12. INFORMATION FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5'-0" AWAY FROM THE FOUNDATION.
 13. INFORMATION ON THE REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING BUT NOT LIMITED TO CALCULATING PAINTING GRADING AROUND THE BUILDING, ETC.
 14. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
 15. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY ON THIS CODE.
 16. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE PER CA GREEN BUILDING STANDARDS, SECTION 4.503.1.
 17. ALL DOOR AND WINDOW OPERATING MECHANISMS SHALL BE DESIGNED TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY BE INTRODUCED INTO THE BUILDING DURING OPERATIONS PER CBS&C, SECTION 4.503.2.
 18. ADHESIVES, SEALANTS AND CAULKES USED ON THE PROJECT SHALL MEET THE REQUIREMENTS SPECIFIED IN SECTION 4.004.3.1 OF THE CA GREEN BUILDING STANDARDS CODE.
 19. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE AIA ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. BUILDING STANDARDS CODE, SECTION 4.504.3.2.
 20. ARCHITECTURAL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROOF IN SECTION 4.504.3.1 AND OTHER REQUIREMENTS PER GREEN BUILDING STANDARDS CODE.
 21. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF SECTION 4.504.5 IN THE CA GREEN BUILDING STANDARDS CODE.
 22. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR BARRIER PER CA GREEN BUILDING STANDARDS CODE SECTION 4.502.2.
 23. A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING, AS PER CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 4.502.2.1:
 a. A 1/2" THICK BASE OF 1/2" INCH 103 MIX OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN WHICH WILL ADDRESS BLOTTING, SHRINKAGE AND CURING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE OF INSTITUTE, ACT 302R-06.
 b. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
 24. A SLAS DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.
 25. THE FOLLOWING METHODS SHALL BE USED TO PREVENT MOISTURE FROM BEING INSTALLED IN WALLS AND FLOOR FRAMING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 4.503.3:
 1. THE FRAMING MEMBERS EXPOSED TO PRESSURE MOISTURE CONTACT MUST BE TREATED WITH A PRESERVATIVE WHICH MEETS THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 4.503.3.
 2. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER.
 3. ALL EXPOSED FRAMING SHALL BE TAKEN AT A POINT 2 FEET 0" FROM THE GRADE STAMPED END OF EACH PIECE TO BE TESTED.
 4. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY.
 5. EXPOSED FRAMING SHALL BE REWORKED OR REPLACED IF THE MOISTURE CONTENT IS FOUND TO BE ABOVE THE ALLOWED DRY PRIORITY INSULATION PRACTICES WHICH ARE INSTALLED OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURER'S DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

REVIEWED FOR CODE COMPLIANCE
 This review does not constitute a warranty of State or County building laws.
 SAN MATEO CO BLDG. INSP. DIV.
 NOV 13 2019

RESUBMITTAL
 FEB 16 2017
 San Mateo County Building Inspection

RESUBMITTAL
FEB 16 2017
San Mateo County
Building Inspection

NOV 13 2015
SAN MATEO CO. BLDG. INSP. DIV.
REVIEWED FOR CODE COMPLIANCE
This review does not constitute a building permit.



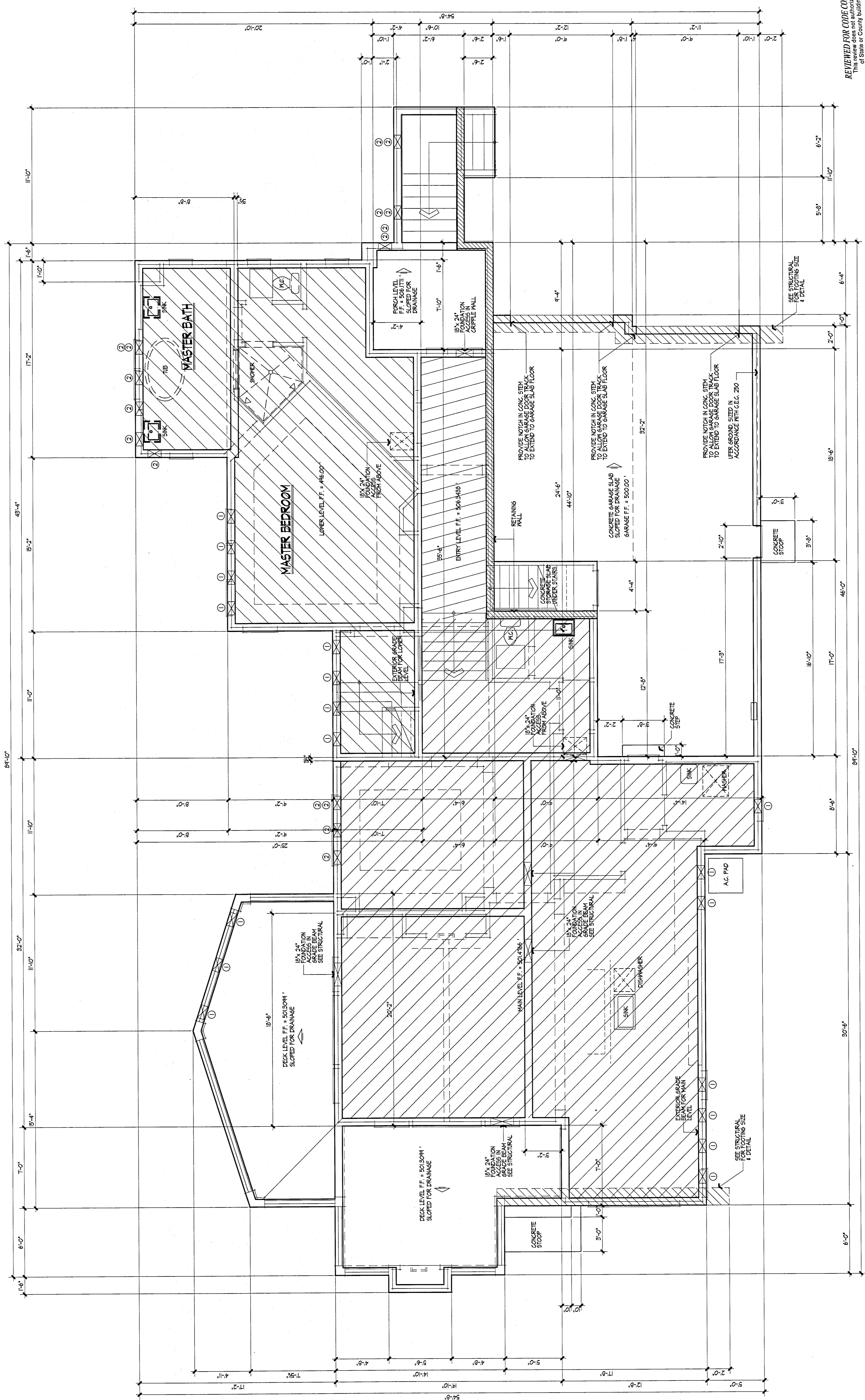
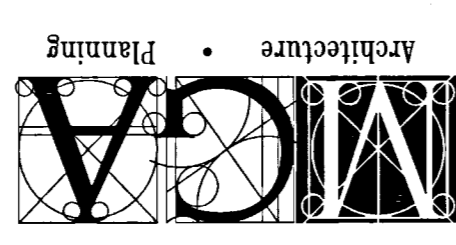
REVISIONS
NO. 1
DATE
DESCRIPTION

FOUNDATION LAYOUT

LOT NO. 10

"HIGHLAND ESTATES, LOT 10"
2184 CORBEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
SAN MATEO, CALIFORNIA 94068
PENN (650) 958-5522 FAX (650) 958-5568

Mark Gross & Associates, Inc.
18841 Redwood Drive
San Ramon, California 94583
(925) 387-3000 Fax (925) 387-7000

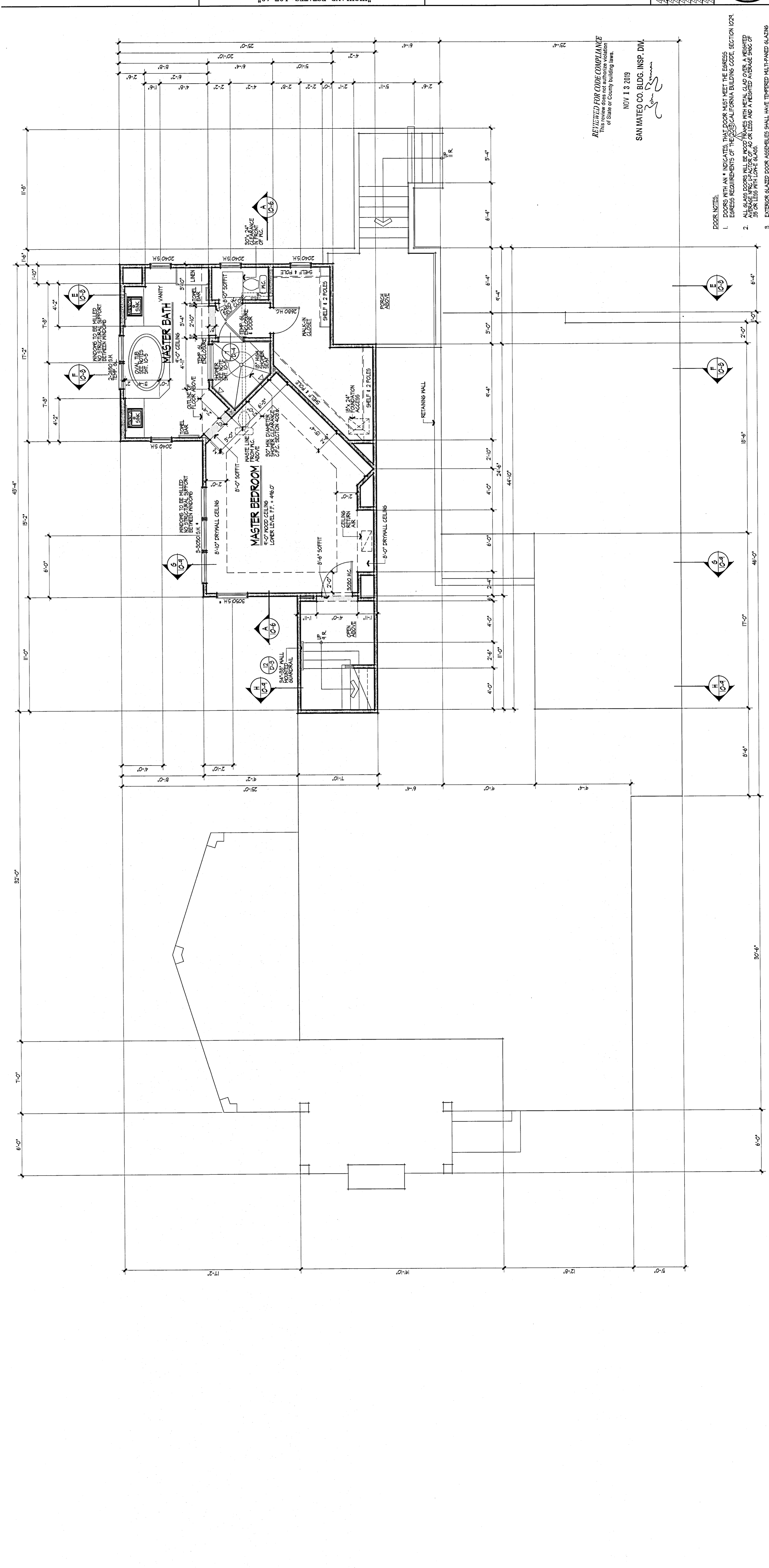


FOUNDATION DIMENSION PLAN

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

NOTES:
1. THE PLAN IS FOR INFORMATION PURPOSES ONLY.
2. THE APPROVED SOIL REPORT SHALL BE A PART OF THE PLANS AND SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.
3. THE MAIN ELECTRICAL SERVICE FOR EACH BUILDING MUST BE CONNECTED TO A UTILITY AND THE BUILDING SHALL BE KEPT FROM THE ELECTRICAL SERVICE TO THE STREET AND BE ACCESSIBLE. ALSO BONDING IS REQUIRED TO THE GROUNDING AND THE WATER PIPING.

VENTILATION OPENINGS FOR ATTICS ENCLOSED (EAVE GUTTERS), ENCLOSED PATIO SPACES AND UNDER FLOOR AREAS SHALL BE NON-COMBUSTIBLE OR ITS EQUIVALENT AND HAVE THE RESISTANCE UP TO 15.0 HOURS.
1. INTERIOR AREA = 2,800 SQ. FT.
2. PROVIDE 1/4" x 4" x 24" FOUNDATION VENTS BY CONSTRUCTION METALS INC. AT 62 PERCENT OF SECTION AREA TO MEET THE BREER RESISTANCE REQUIREMENTS OF SECTION R5.02.2 OF THE C.C.C.
3. PROVIDE 1/4" x 4" x 24" FOUNDATION VENTS BY CONSTRUCTION METALS INC. AT 15 PERCENT OF SECTION AREA TO MEET THE BREER RESISTANCE REQUIREMENTS OF SECTION R5.02.2 OF THE C.C.C.
4. PROVIDE 1.50 FT. OF VENTILATION FOR EVERY 80 SQ. FT. OF FLOOR AREA REQUIRED UNDER FLOOR VENTILATION = 2,800 SQ. IN.
5. VENTILATION PROVIDED = 2,856 SQ. IN.
SEE ELEVATIONS FOR APPROXIMATE LOCATION OF VENTS.



REVIEWED FOR COMPLIANCE
 This review does not authorize violation
 of State or County building laws.

NOV 13 2019
 SAN MATEO CO. BLDG. INSP. DIV.

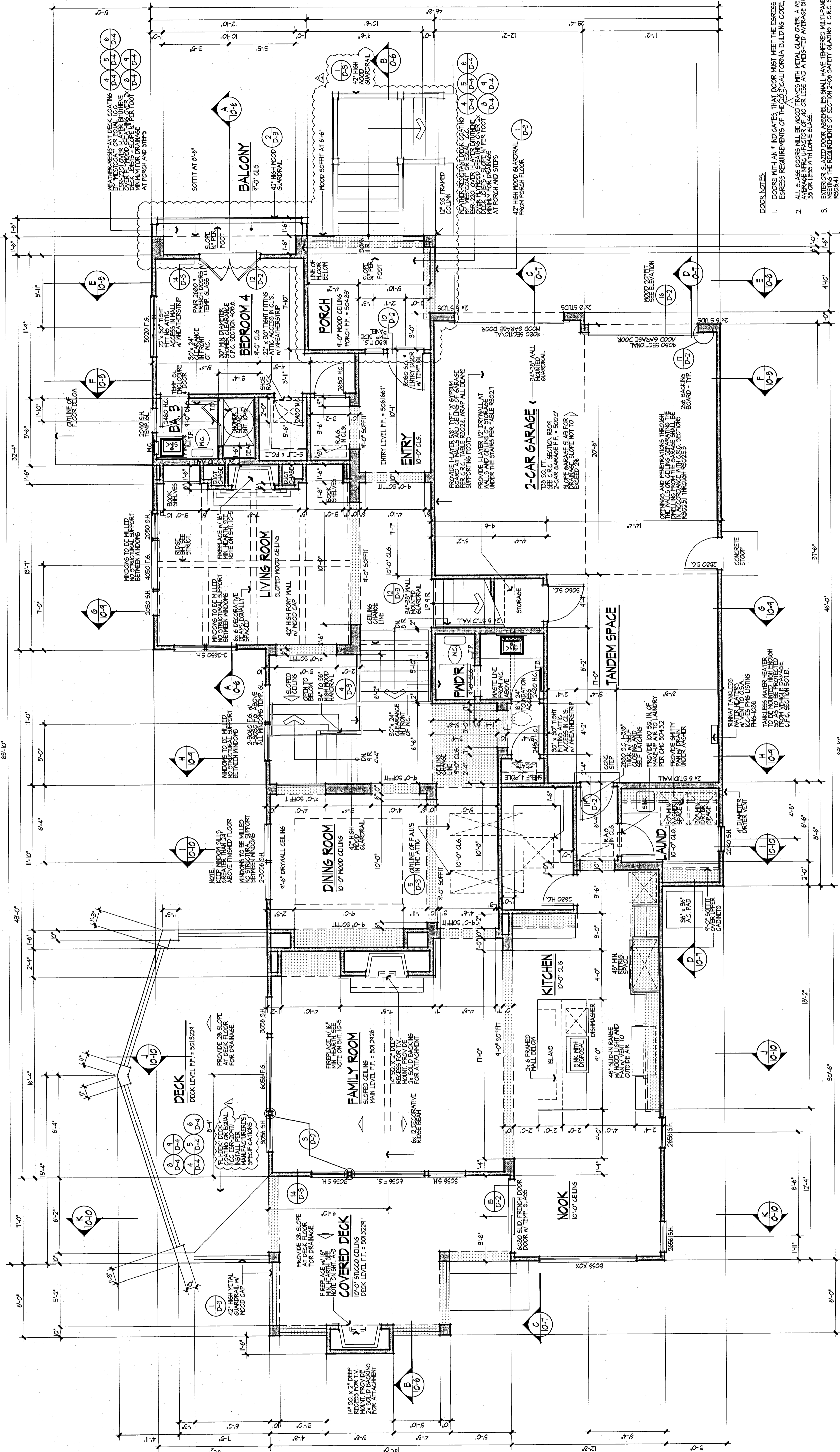
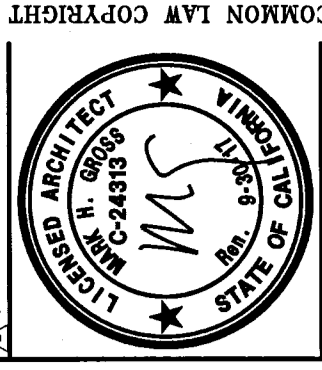
- DOOR NOTES:**
- DOORS WITH AN * INDICATES THAT DOOR MUST MEET THE EGRESS REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, SECTION 1024.
 - ALL GLASS DOORS WILL BE WOOD FRAMES WITH METAL GLAD OVER A REINFORCED GLASS PANEL WITH A MINIMUM OF ONE TYPED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) WITH A MINIMUM OF ONE TYPED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) WITH A MINIMUM OF ONE TYPED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - EXTERIOR GLASS DOOR ASSEMBLIES SHALL HAVE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - EXTERIOR GLASS DOOR ASSEMBLIES WITH A TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - EXTERIOR GLASS DOOR ASSEMBLIES WITH A TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - ONE EXTERIOR DOOR SHALL PROVIDE A MIN. CLEAR WIDTH OF 32 INCHES. ALL OTHER EXTERIOR DOORS SHALL PROVIDE A MIN. CLEAR WIDTH OF 30 INCHES. ALL EXTERIOR DOORS SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - ALL EXTERIOR GLASS DOORS SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).

- GENERAL NOTES:**
- INDICATORS WITH AN * INDICATES THAT WINDOW MUST MEET THE EGRESS REQUIREMENTS OF THE 2019 CALIFORNIA RESIDENTIAL CODE, SECTION 1024.
 - ALL WINDOWS WILL BE WOOD FRAMES WITH METAL GLAD OVER A REINFORCED GLASS PANEL WITH A MINIMUM OF ONE TYPED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) WITH A MINIMUM OF ONE TYPED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - EXTERIOR WINDOW ASSEMBLIES WITH A TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1) SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).
 - TYPICAL EXTERIOR WINDOW ASSEMBLIES SHALL BE TYPED MULTIPANE GLASSING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLASSING (C.F.C. SECTION 2406.1).

- NOTES:**
- FOR TITLE 24 REQUIREMENTS SEE SHEETS 1-24 WHICH INCLUDES INSULATION, VENTILATION, AND ENERGY EFFICIENCY REQUIREMENTS. ALSO SEE SHEET 1-24 FOR GREEN BUILDING STANDARDS. SEE SHEET 0-1.
 - FOR ELECTRICAL NOTES SEE GENERAL NOTE SHEET 0-2.
 - FOR MECHANICAL NOTES SEE GENERAL NOTE SHEET 0-3.
 - FOR PLUMBING NOTES SEE GENERAL NOTE SHEET 0-4.
 - FOR GENERAL CONSTRUCTION NOTES SEE GENERAL NOTE SHEET 0-5.
 - FOR GENERAL CONSTRUCTION NOTES SEE GENERAL NOTE SHEET 0-5.
 - FOR GENERAL CONSTRUCTION NOTES SEE GENERAL NOTE SHEET 0-5.
 - FOR GENERAL CONSTRUCTION NOTES SEE GENERAL NOTE SHEET 0-5.

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

185 SQ. FT.

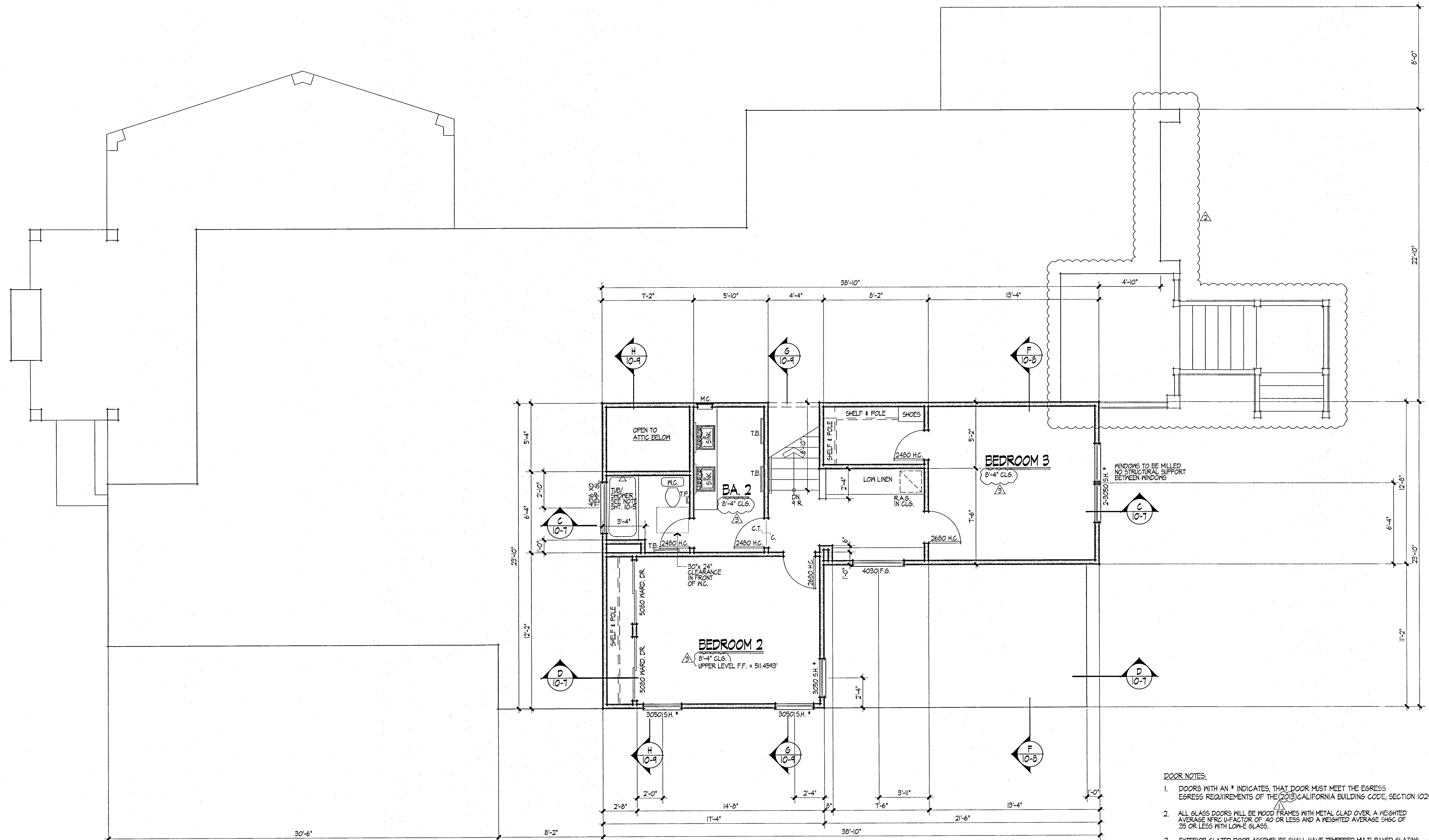


- NOTE:**
- FOR TITLE 24 REQUIREMENTS SEE SHEETS T-24, WHICH INCLUDES INSULATION REQUIREMENTS FOR ROOFS, WALLS, FLOORS, AND CEILING. ALSO SEE SHEET T-24 FOR GREEN BUILDING STANDARDS. SEE SHEET G-1.
 - FOR ELECTRICAL NOTES, SEE GENERAL NOTE SHEET G-1.
 - FOR MECHANICAL NOTES, SEE GENERAL NOTE SHEET G-2.
 - FOR PLUMBING NOTES, SEE GENERAL NOTE SHEET G-3.
 - FOR GENERAL CONSTRUCTION NOTES, SEE GENERAL NOTE SHEET G-4.
 - OFFER TO PROVIDE ALL MATERIAL TO BE USED FOR THE PROJECT.
 - THE WALL COVERINGS SHALL BE CORNER MATCHES TO THE APPROVED WALL COVERINGS. OTHER WALL COVERINGS SHALL BE MATCHED TO CORNER MATCHES WITH A CATEGORY 1 OR BETTER MATERIAL (AS PER 905.1.2, 905.1.2.1, 905.1.2.2, 905.1.2.3).

- INDOOR NOTE:**
- INDOOR WITH AN * INDICATES THAT WINDOW MUST MEET THE EGRESS REQUIREMENTS OF THE CALIFORNIA RESIDENTIAL CODE SECTION 90101.
 - ALL WINDOWS WILL BE WOOD FRAMES WITH METAL CLAD OVER A REINFORCED GLASS AND GLAZING SYSTEMS WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS.
 - EXTERIOR WINDOW ASSEMBLIES NOTED AS TYPED GLASS SHALL HAVE TYPED GLASS AND GLAZING SYSTEMS WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS.
 - TYPICAL EXTERIOR WINDOW ASSEMBLIES SHALL BE METAL FRAMED GLAZING WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS AND 1/2" INSULATION (SEE SECTION 905.4.5).

- DOOR NOTES:**
- DOORS WITH AN * INDICATES THAT DOOR MUST MEET THE EGRESS REQUIREMENTS OF THE CALIFORNIA BUILDING CODE SECTION 1024.
 - ALL GLASS DOORS WILL BE WOOD FRAMES WITH METAL CLAD OVER A REINFORCED GLASS AND GLAZING SYSTEMS WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS.
 - EXTERIOR GLASS DOOR ASSEMBLIES SHALL HAVE TYPED METAL FRAMED GLAZING AND GLAZING SYSTEMS WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS (SEE SECTION 905.4.5).
 - ALL GLASS DOORS AND WINDOWS IN THE 2-CAR GARAGE SHALL BE METAL FRAMED GLAZING WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS AND 1/2" INSULATION (SEE SECTION 905.4.5).
 - EXTERIOR DOORS SHALL HAVE A FIRE RESISTANT RATING OF NOT LESS THAN 20 MINUTES. ALL EXTERIOR DOORS SHALL BE METAL FRAMED GLAZING WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS.
 - EXTERIOR DOORS SHALL PROVIDE A MIN CLEAR WIDTH OF 32 INCHES. ALL EXTERIOR DOORS SHALL BE METAL FRAMED GLAZING WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS.
 - DOOR OPENINGS SHALL NOT BE LESS THAN 20 INCHES IN HEIGHT. REINFORCED GLASS SHALL BE USED IN ALL DOOR OPENINGS. ALL DOOR OPENINGS SHALL BE REINFORCED WITH STEEL OR CONCRETE. REINFORCEMENT SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1908.4.1.
 - ALL GLASS DOORS SHALL BE METAL FRAMED GLAZING WITH A WEIGHTED AVERAGE U-VALUE OF 0.30 OR LESS WITH LOW-E GLASS AND 1/2" INSULATION (SEE SECTION 905.4.5).

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

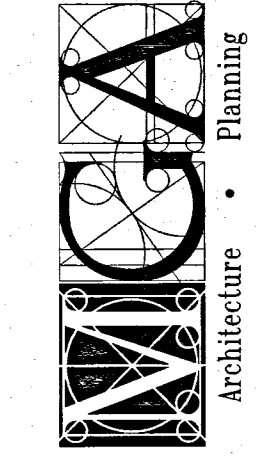


UPPER LEVEL FLOOR PLAN 618 SQ. FT.
SCALE: 1/4" = 1'-0"

- NOTES:**
- FOR TITLE-24 REQUIREMENTS SEE SHEETS T-24.1, WHICH INCLUDES INSULATION VALUES FOR WALLS, CEILING, FLOORS, DUCTS AND HOT WATER PIPES, ALSO A.C. MINIMUM SEER AND TONNAGE AND HERS REQUIRED VERIFICATIONS.
 - FOR GREEN BUILDING STANDARDS, SEE SHEET G6.1.
 - FOR ELECTRICAL NOTES, SEE GENERAL NOTE SHEET 6N-2.
 - FOR MECHANICAL NOTES, SEE GENERAL NOTE SHEET 6N-2.
 - FOR PLUMBING NOTES, SEE GENERAL NOTE SHEET 6N-1.
 - FOR GENERAL CONSTRUCTION NOTES, SEE GENERAL NOTE SHEET 6N-1 & 6N-2.
 - WHERE HARDIE FRAMES ARE USED IN THE GARAGE WALLS 2-LAYERS OF 5/8" TYPE 'X' GYP. WALL BD. IS TO BE USED FOR I.H.R. FIRE PROTECTION.
 - THE WALL COVERING SHALL BE CEMENT PLASTER, TILE OR APPROVED EQUAL, 12" ABOVE THE DRAIN AT THE SHOWERS (22" DOOR MINIMUM) OR TUBS WITH SHOWERS. MATERIAL OTHER THAN STRUCTURAL ELEMENTS SHALL BE MOISTURE RESISTANT. GLASS ENCLOSURE DOORS AND PANELS MUST BE PERMANENTLY MARKED TO COMPLY WITH A CATEGORY I OR II TEST CRITERIA. (R301, P.C. 411.6, R308, 2406)

- WINDOW NOTES:**
- WINDOWS WITH AN * INDICATES, THAT WINDOW MUST MEET THE EGRESS REQUIREMENTS OF THE 2013 CALIFORNIA RESIDENTIAL CODE, SECTION R310.1
 - ALL WINDOWS WILL BE WOOD FRAMES WITH METAL CLAD OVER, A WEIGHTED AVERAGE NFRC U-FACTOR OF .40 OR LESS AND A WEIGHTED AVERAGE SHGC OF .35 OR LESS WITH LOW-E GLASS.
 - EXTERIOR WINDOWS ASSEMBLIES NOTED W/ TEMPERED GLASS SHALL HAVE TEMPERED MULTI-PANED GLAZING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING AND C.R.C. SECTION R302.4.2.
 - TYPICAL EXTERIOR WINDOWS ASSEMBLIES SHALL BE MULTI-PANED GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING AND C.R.C. SECTION R302.4.2.

- DOOR NOTES:**
- DOORS WITH AN * INDICATES, THAT DOOR MUST MEET THE EGRESS REQUIREMENTS OF THE 2013 CALIFORNIA BUILDING CODE, SECTION I02.4.
 - ALL GLASS DOORS WILL BE WOOD FRAMES WITH METAL CLAD OVER, A WEIGHTED AVERAGE NFRC U-FACTOR OF .40 OR LESS AND A WEIGHTED AVERAGE SHGC OF .35 OR LESS WITH LOW-E GLASS.
 - EXTERIOR GLAZED DOOR ASSEMBLIES SHALL HAVE TEMPERED MULTI-PANED GLAZING MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING & C.R.C. SECTION R302.4.1.
 - EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES SHALL BE MULTI-PANED GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING & C.R.C. SECTION R321.8.2.1
 - EXTERIOR DOORS SHALL HAVE A FIRE-RESISTANT RATINGS OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252 OR COMPLY WITH ONE OF THE FOLLOWING ITEMS IN THE C.R.C. SECTION R321.8.3.
 - ONE EGRESS DOOR SHALL PROVIDE A MIN. CLEAR WIDTH OF 32 INCHES WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP WITH THE DOOR OPEN 90 DEGREES. THE MIN. CLEAR HEIGHT OF THE DOOR OPENING SHALL NOT BE LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. EGRESS DOOR SHALL BE READILY OPENABLE FROM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. C.R.C. R312
 - ALL GARAGE TO HOUSE DOORS TO BE SOLID WOOD DOOR NOT LESS THAN 1 3/8" THICK, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK, OR 20-MINUTE FIRE-RATED DOORS. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING. C.R.C. R302.5.1



Mark Gross & Associates, Inc.
1800
California Street
(949) 387-3800 Fax (949) 387-7000

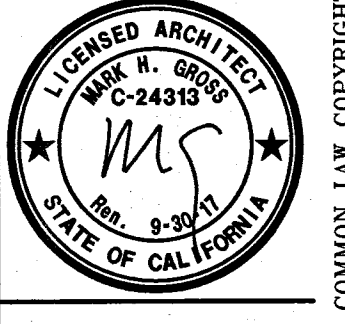
"HIGHLAND ESTATES, LOT 10"
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
SAN CARLOS, CALIFORNIA 94070
PHONE (650) 555-5532 FAX (650) 555-5066

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or county building laws.

NOV 13 2019
SAN MATEO COUNTY BLDG. INSP. DIV.

LOT No. 10
3,431 SQ. FT.
UPPER LEVEL
FLOOR PLAN

REVISIONS	P.C.
1. FEB 8, 2011	P.C. 1
2. FEB 8, 2011	P.C. 2
3. FEB 8, 2011	P.C. 3
4. FEB 8, 2011	P.C. 4
5. FEB 8, 2011	P.C. 5
6. FEB 8, 2011	P.C. 6
7. FEB 8, 2011	P.C. 7
8. FEB 8, 2011	P.C. 8
9. FEB 8, 2011	P.C. 9
10. FEB 8, 2011	P.C. 10

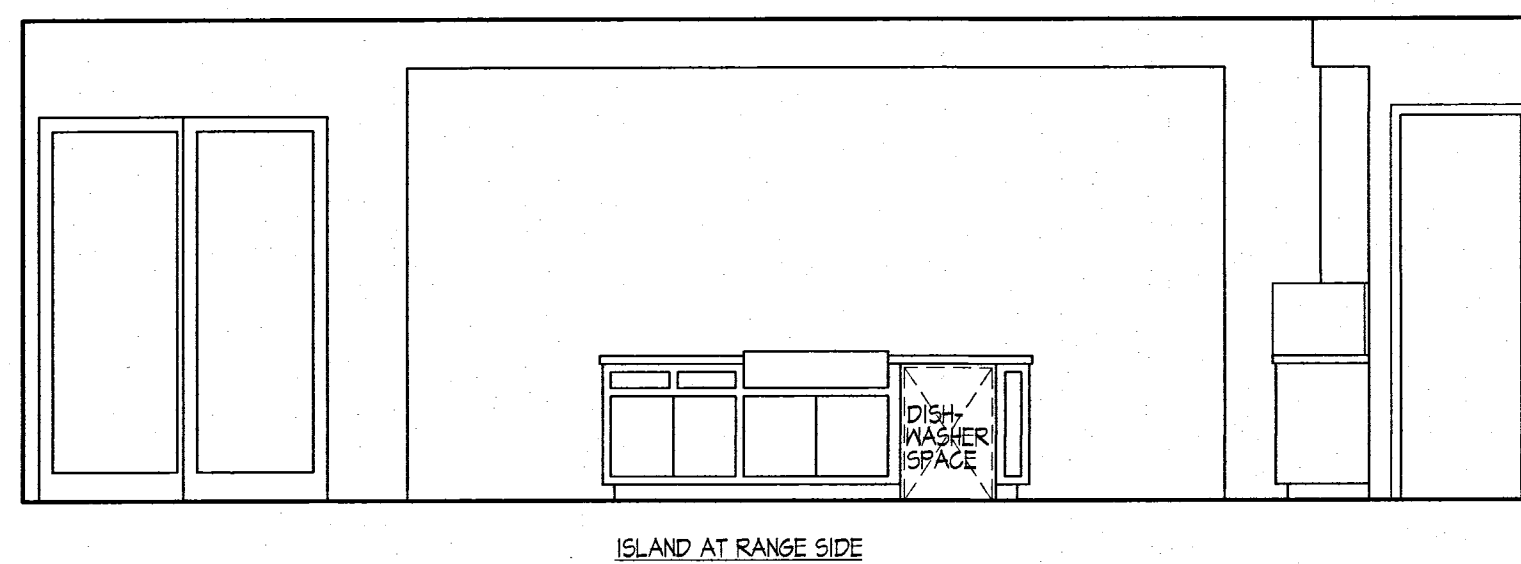


ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

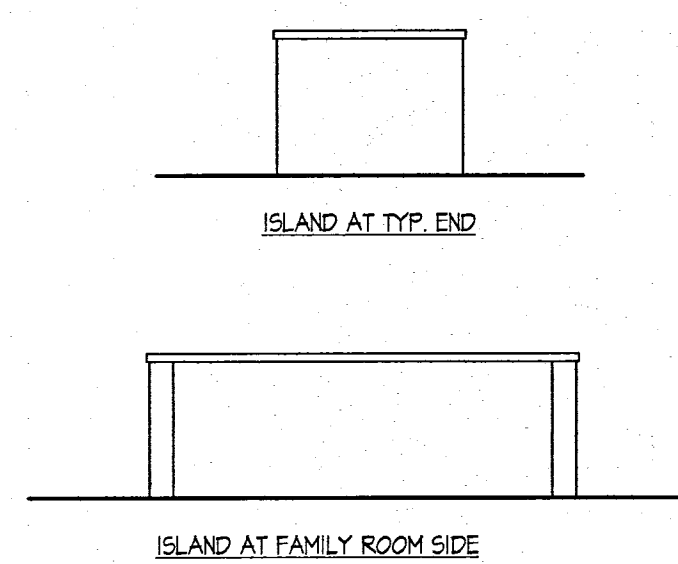
DESIGNED BY: [Signature]
DRAWN BY: R.L.S.
CHECKED BY: [Signature]
JOB NO.: 4271
DATE: JANUARY 06, 2016
SHEET NO.: 10-4

RESUBMITTAL
OCT 3 2019

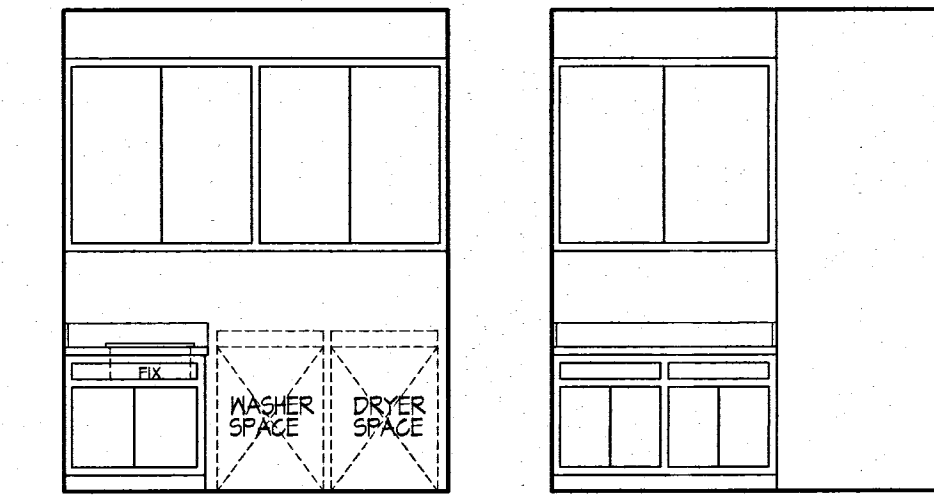
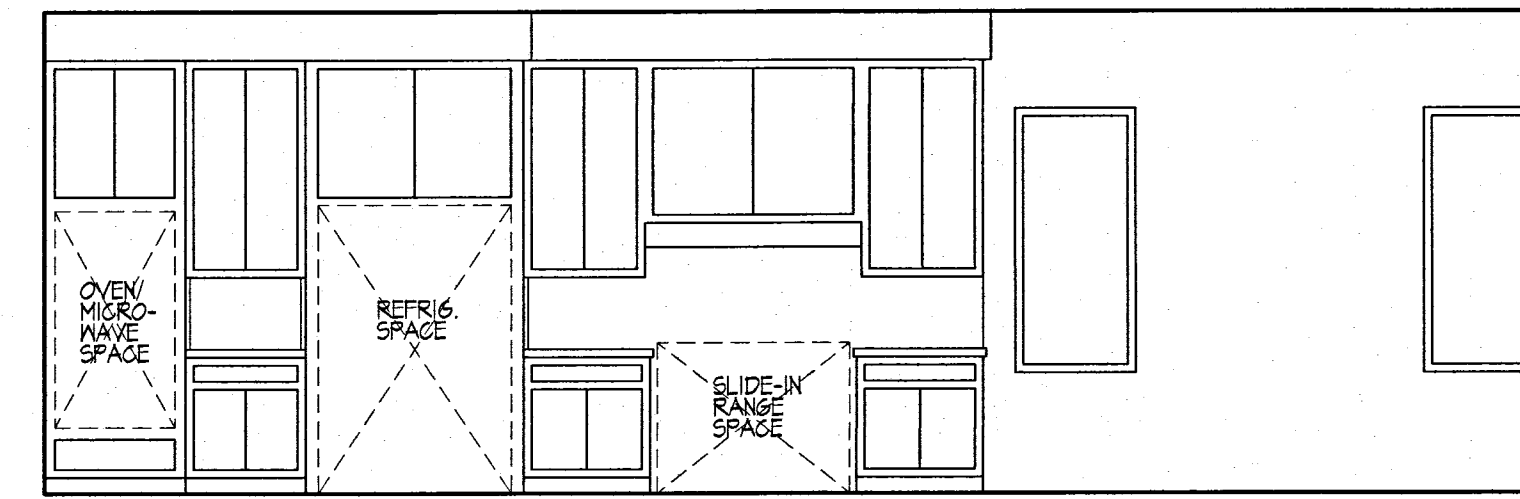
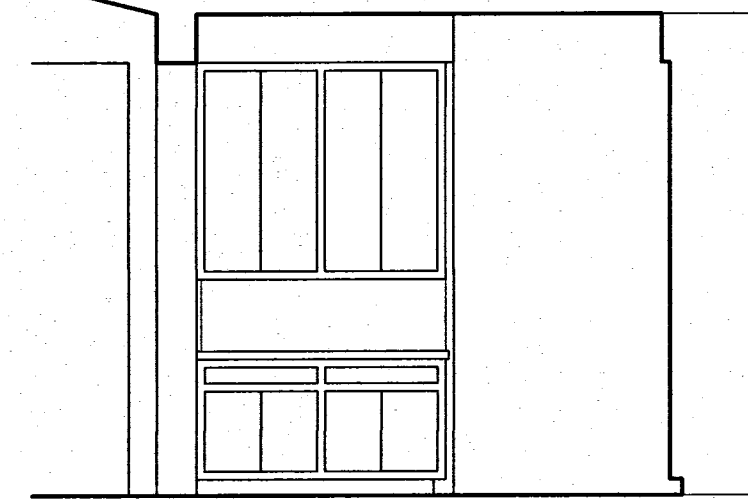
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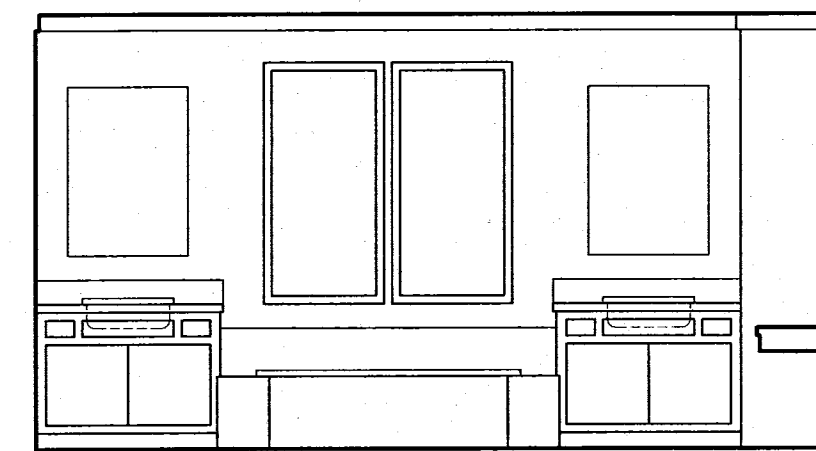
KITCHEN



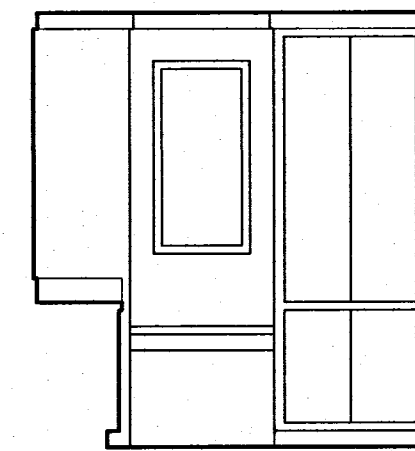
ISLAND AT FAMILY ROOM SIDE



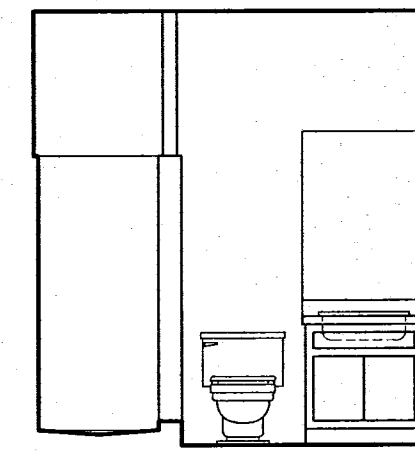
LAUNDRY



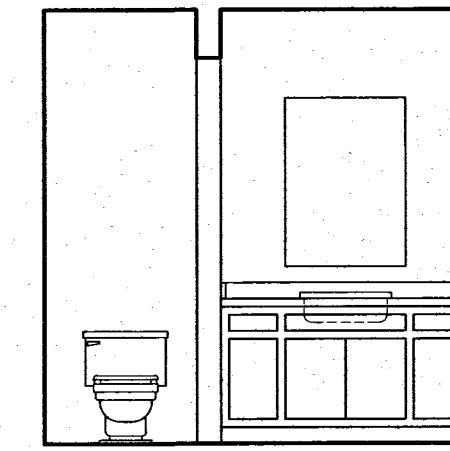
MASTER BATH



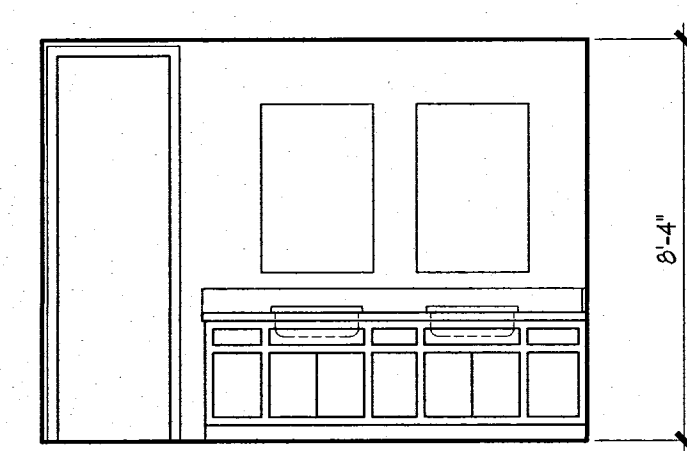
BATH 3



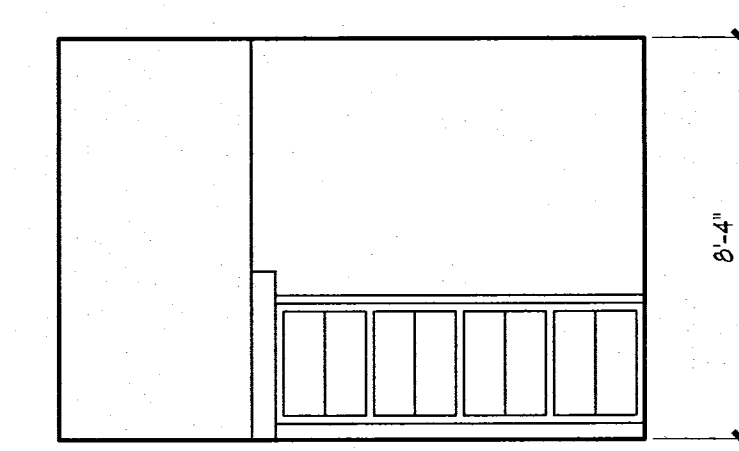
POWDER



BATH 2



LINEN AT UPPER LEVEL LANDING

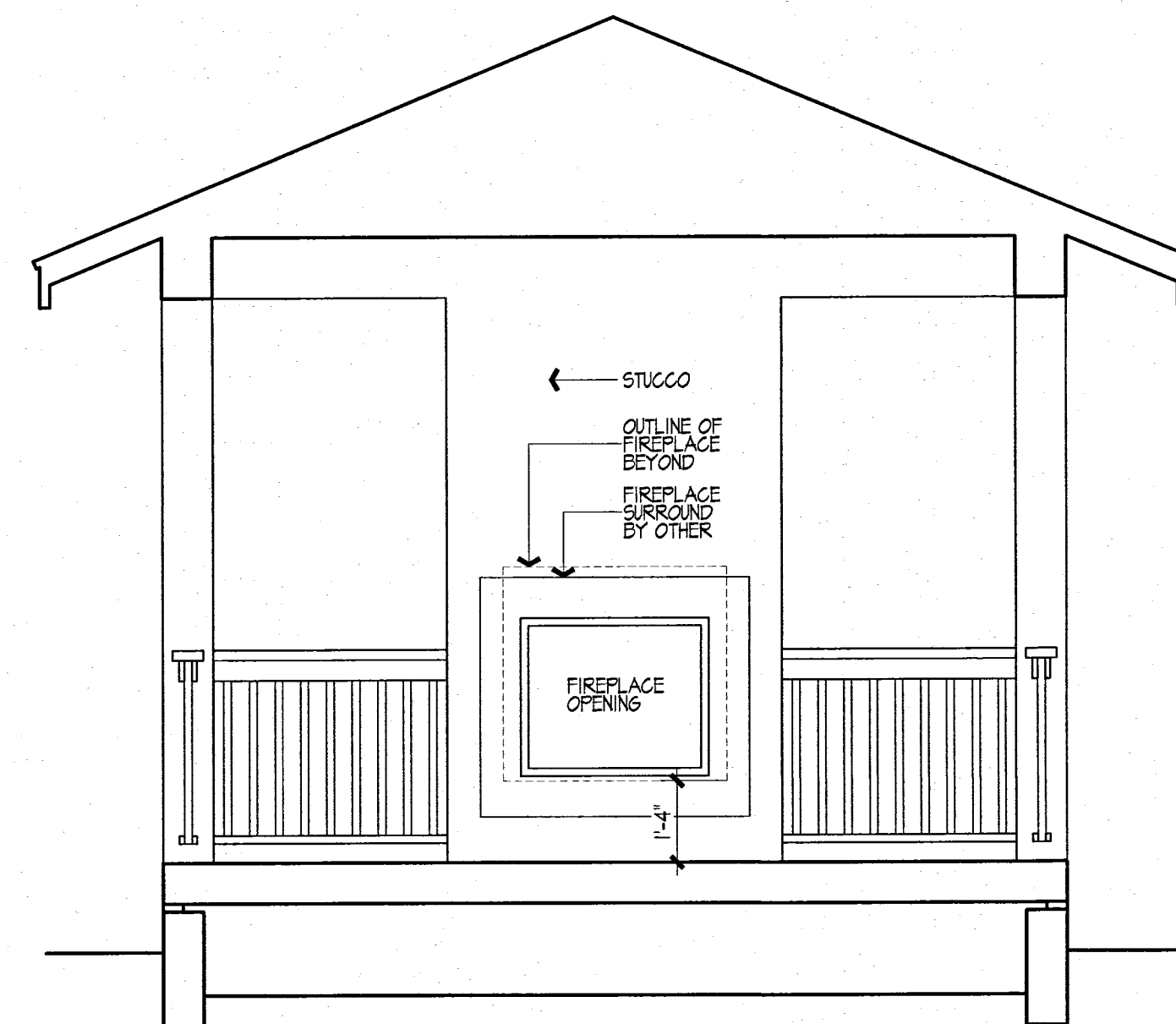


BOOKCASE AT UPPER LEVEL LANDING

NOTE:
ALL INTERIOR FINISHES, INCLUDING COUNTER TOPS, SPLASHES AND CABINRY TO BE PER THE BUILDERS SPECIFICATIONS.
ALL INTERIOR COVERINGS OR WALL FINISHES SHALL BE INSTALLED ACCORDANCE WITH SECTION R102 OF THE 2010 C.R.C.

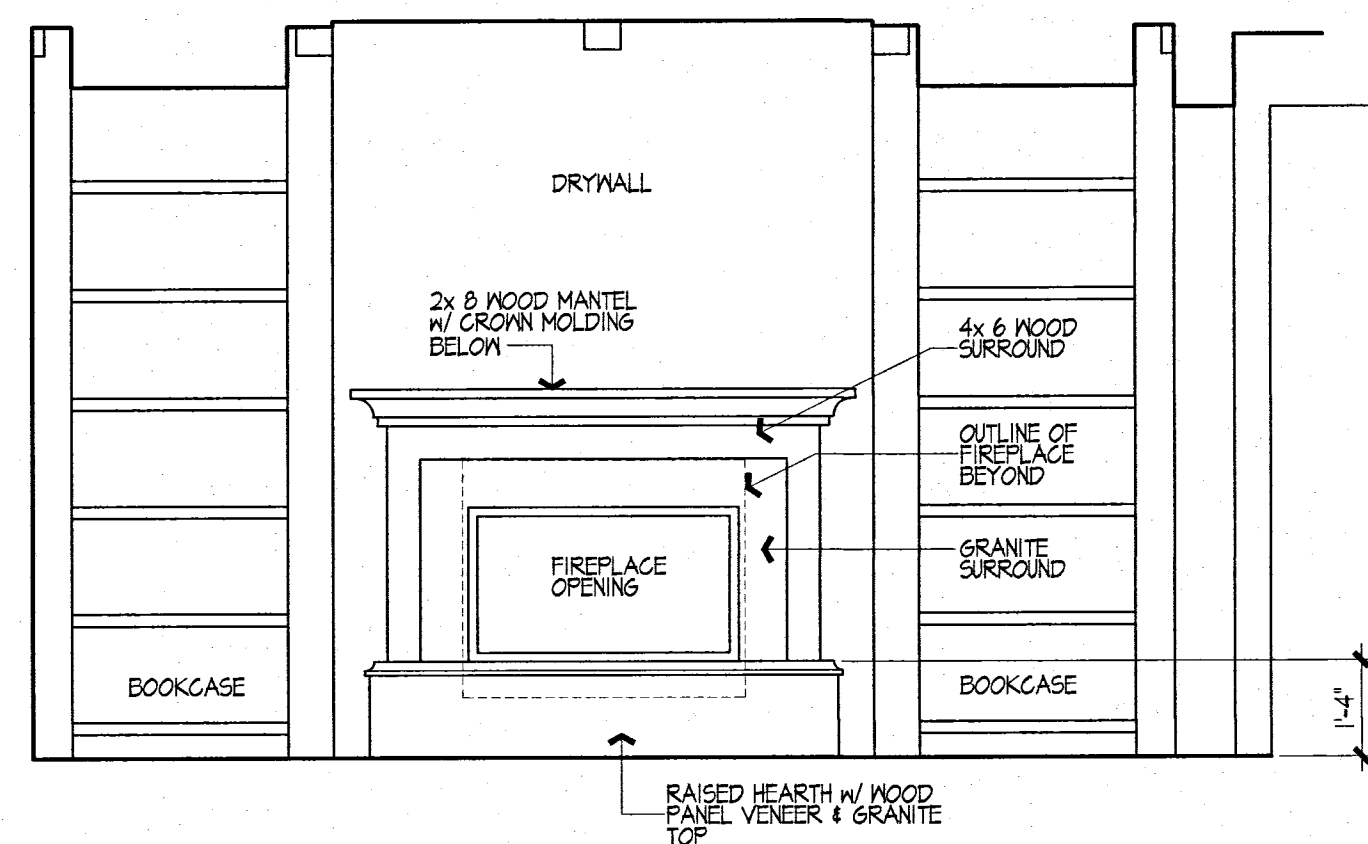
INTERIOR ELEVATIONS

SCALE: 1/4"=1'-0" UNLESS NOTED OTHERWISE



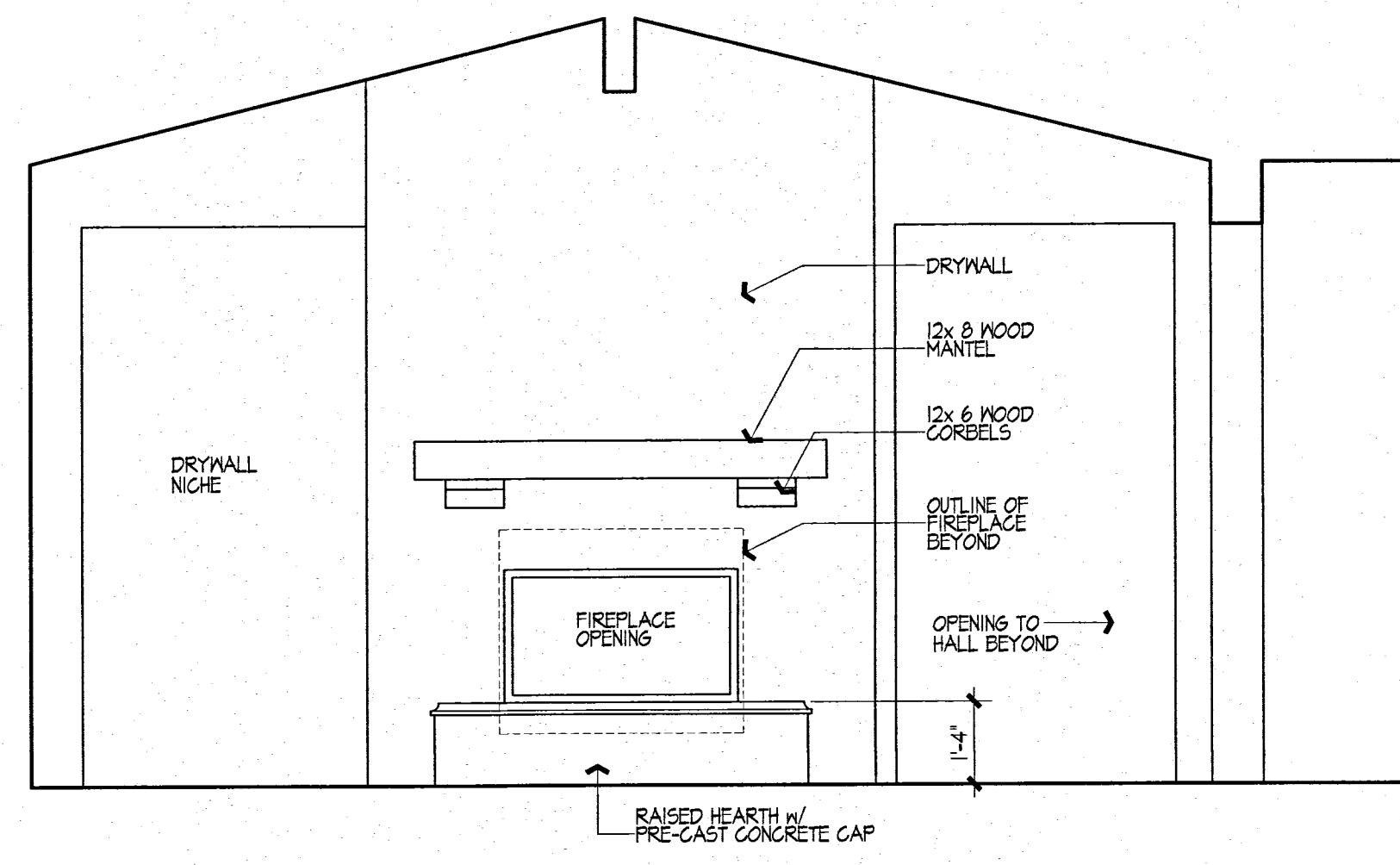
COVERED DECK FIREPLACE

SCALE: 3/8"=1'-0"



LIVING ROOM FIREPLACE

SCALE: 3/8"=1'-0"



FAMILY ROOM FIREPLACE

SCALE: 3/8"=1'-0"

TUB & SHOWER NOTE (MASTER BATH)

PROVIDE KOHLER / STERLINGS MODEL K-1456 (66" x 42") DECK TUB ON A CERAMIC TILE PLATFORM 84" x 54" w/ 12" MAINSCOT 1 WALL & 2 CABINET FACES
PROVIDE 60" x 18" CERAMIC TILE SHOWER PAN w/ CORNER SEAT & 86" HIGH CERAMIC TILE MAINSCOT - 5 WALLS
SHOWER HEAD AT 82" HIGH
PROVIDE SHATTER-PROOF GLASS ENCLOSURE
PROVIDE 1-PIECE TRAP @ TUB IN LIEU OF PLUMBING ACCESS
WATER RESISTANT GYPSUM BACKING BOARD (i.e. GREENBOARD) SHALL NOT BE USED IN BATH TUBS OR SHOWERS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER AND CONTINUOUS HIGH HUMIDITY PER C.R.C. SECTION 102.5.8.1. FOR GYPSUM BOARD USED AS THE BACKER OR BASE FOR CERAMIC TILES OR OTHER NON-ABSORBENT FINISH MATERIALS IN SHOWERS OR AT TUBS, PROVIDE FIBER-CEMENT, FIBER-MAT BOARD, HARDI-BACKER, DENS SHEILD OR EQUIVALENT.

TUB W/SHOWER NOTE (BATH 2)

PROVIDE 60" x 32" x 20" HIGH ACRYLIC TUB BY KOHLER MODEL K-1456 w/ CERAMIC TILE MAINSCOT 12" HIGH, 3- WALLS
PROVIDE SHOWER CURTAIN ROD
PROVIDE 1-PIECE TRAP AT TUB/SHOWER IN LIEU OF PLUMBING ACCESS
WATER RESISTANT GYPSUM BACKING BOARD (i.e. GREENBOARD) SHALL NOT BE USED IN BATH TUBS OR SHOWERS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER AND CONTINUOUS HIGH HUMIDITY PER C.R.C. SECTION 102.5.8.1. FOR GYPSUM BOARD USED AS THE BACKER OR BASE FOR CERAMIC TILES OR OTHER NON-ABSORBENT FINISH MATERIALS IN SHOWERS OR AT TUBS, PROVIDE FIBER-CEMENT, FIBER-MAT BOARD, HARDI-BACKER, DENS SHEILD OR EQUIVALENT.

SHOWER NOTE (BATH 3)

PROVIDE 60" x 38" CERAMIC TILE SHOWER PAN w/ 12" WIDE SEAT & 86" HIGH CERAMIC TILE MAINSCOT 12" HIGH, 3- WALLS & CURTAIN ROD
SHOWER HEAD AT 82" HIGH
PROVIDE SHATTER-PROOF GLASS ENCLOSURE
PROVIDE 1-PIECE TRAP AT TUB/SHOWER IN LIEU OF PLUMBING ACCESS
WATER RESISTANT GYPSUM BACKING BOARD (i.e. GREENBOARD) SHALL NOT BE USED IN BATH TUBS OR SHOWERS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER AND CONTINUOUS HIGH HUMIDITY PER C.R.C. SECTION 102.5.8.1. FOR GYPSUM BOARD USED AS THE BACKER OR BASE FOR CERAMIC TILES OR OTHER NON-ABSORBENT FINISH MATERIALS IN SHOWERS OR AT TUBS, PROVIDE FIBER-CEMENT, FIBER-MAT BOARD, HARDI-BACKER, DENS SHEILD OR EQUIVALENT.

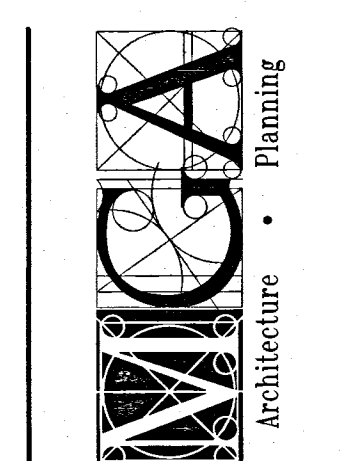
FIREPLACE NOTE

FIREPLACE BY: HEATILATOR * OR EQ.
LIVING AND FAMILY ROOM MODEL NO.: REVEAL REV4842 B-VENT GAS FIREPLACE
PRODUCT LISTING CODES
LABORATORY: UNDERWRITERS LABORATORIES, INC. (UL307) TYPE: VENTED GAS FIREPLACE HEATERS STANDARD: ANSI Z21.50-2008
COVERED DECK MODEL NO.: CAROLINA 36 (CAROD5421-B) OUTDOOR GAS FIREPLACE
PRODUCT LISTING CODES
LABORATORY: UNDERWRITERS LABORATORIES, INC. (UL) TYPE: OUTDOOR DECORATIVE GAS APPLIANCES STANDARD: ANSI Z21.91-2014, CSA 2.41-2014

FIREPLACE SHALL BE CONSTRUCTED AS A SINGLE COMPLETE ASSEMBLY READILY ATTACHABLE TO OTHER COMPONENTS.
INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
FIREPLACE TO HAVE TIGHT FITTING GLASS DOORS AND SHALL DRAW COMBUSTION AIR FROM OUTSIDE.
GAS VENT PASSING THROUGH A ROOF SHALL EXTEND THROUGH THE ENTIRE ROOF FLASHING, ROOF JACK, OR ROOF THIMBLE AND BE TERMINATED WITH A LISTED TERMINATION CAP, (CMC 802.6) 12" MINIMUM ABOVE THE ROOF.
THE APPLIANCE SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTING IN ADDITION TO THE MANUFACTURER'S INSTRUCTIONS.

INTERIOR FINISH SCHEDULE				
ROOM	FLOOR	WALLS	CEILING	REMARKS
ENTRY	HARDWOOD	LIGHT ORANGEPEEL	LIGHT ORANGEPEEL	PAINT WALLS & CLG.
LIVING ROOM				
DINING ROOM				
KITCHEN				
NOOK				
FAMILY ROOM				
STAIRS & LANDINGS TO LOWER LEVELS				
HALL TO BEDRM. 4 OFF THE ENTRY				
MASTER BEDROOM	CARPET			
BEDROOM 2				
BEDROOM 3				
BEDROOM 4				
HALLS				
LANDING				
WALK-IN CLOSETS				
STAIRS & HALL TO UPPER LEVEL				
MASTER BATH				
BATH 2	CERAMIC TILE			
BATH 3				
LAUNDRY				
POWDER				

0. WARDROBES, CLOSETS AND STORAGES TO HAVE SAME FLOOR COVERING AS ADJACENT ROOM. (U.N.O.)
1. SQUARE DRYWALL CORNERS.
2. WATER CLOSET COMPARTMENT TO CERAMIC TILE FLOOR COVER.



Mark Gross & Associates, Inc.
8001 Research Drive
San Mateo, California 94403
(415) 357-3800 Fax (415) 357-3800

"HIGHLAND ESTATES, LOT 10"
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
SAN CARLOS, CALIFORNIA 94070
PHONE (650) 555-5832 FAX (650) 555-5066

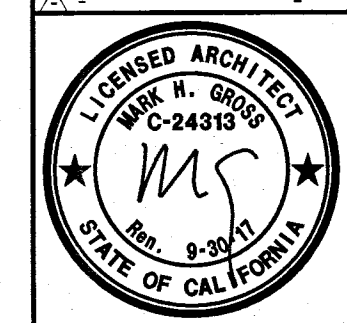
REVIEWED FOR CODE COMPLIANCE
This review is not a guarantee of the accuracy of the drawings or compliance with the applicable building laws.

NO. 13 2019

SAN MATEO CO. BLDG. INSP. DIV.

LOT No. 10
INTERIOR ELEVATIONS,
NOTES & SCHEDULES

REVISIONS	P.C.
Δ FEB. 8, 2011	P.C. 1
Δ FEB. 8, 2011	PLANNING
Δ JUNE 15, 2011	PLANS

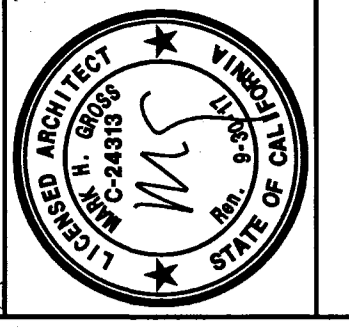


ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

DESIGNED BY
DRAWN BY
R.L.S.
CHECKED BY
JOB NO. 4271
DATE JANUARY 06, 2016
SHEET NO.

RESUBMITTED
OCT 31 2017
San Mateo Building Dept
10-5

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REVISIONS	DATE	BY
1	FEB. 1, 2017	PLANS
2	FEB. 1, 2017	PLANS
3	FEB. 1, 2017	PLANS
4	FEB. 1, 2017	PLANS
5	FEB. 1, 2017	PLANS
6	FEB. 1, 2017	PLANS
7	FEB. 1, 2017	PLANS
8	FEB. 1, 2017	PLANS
9	FEB. 1, 2017	PLANS
10	FEB. 1, 2017	PLANS

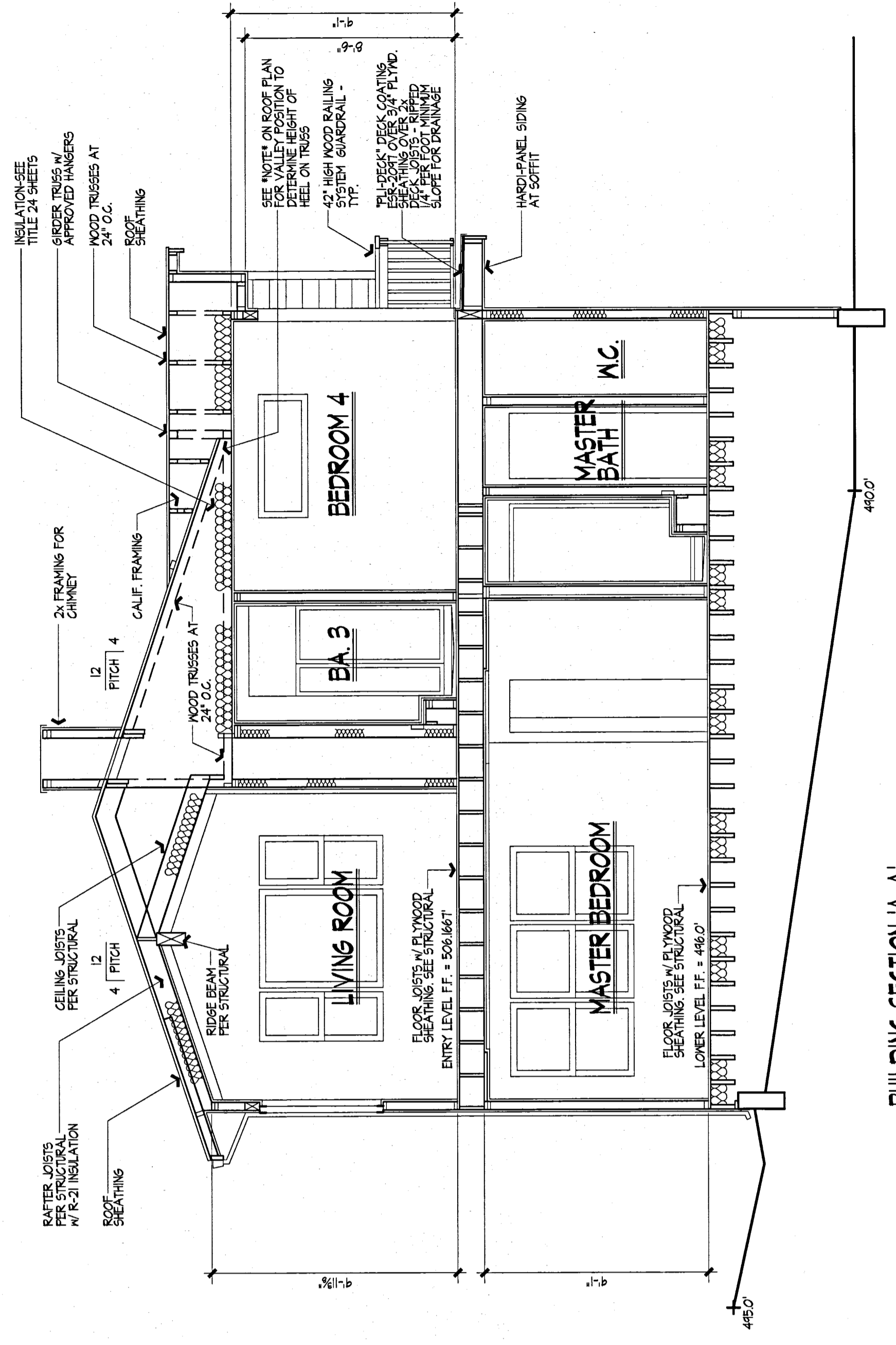
LOT NO. 10
BUILDING SECTIONS

MARK GROSS & ASSOCIATES, INC.
Architects • Planners
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
SAN MATEO PARTNERS, LLC
655 SAN VALENTINE STREET
SAN CARLOS, CALIFORNIA 94060
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WWW.MGASOCIATES.COM
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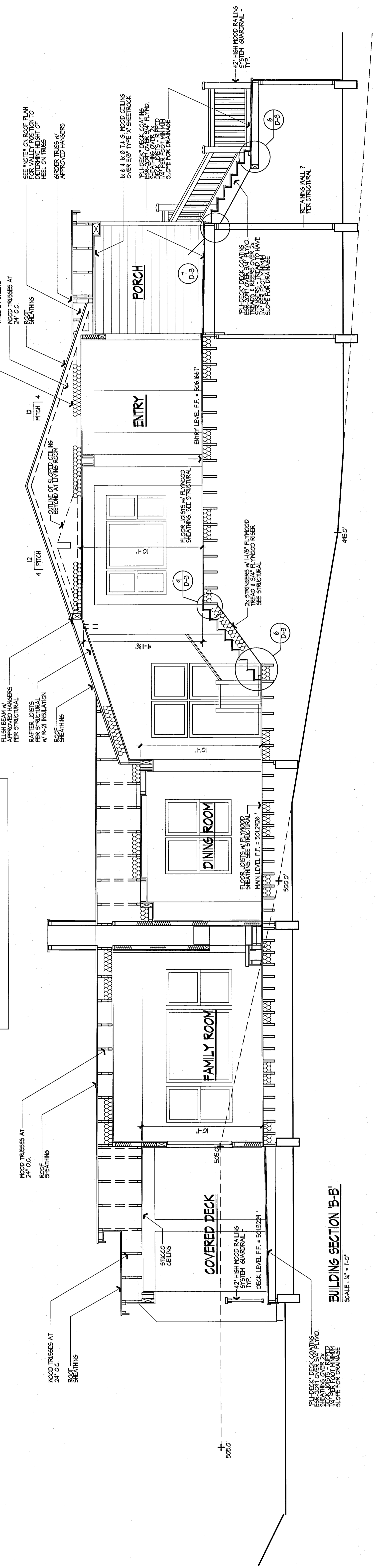
MARK GROSS & ASSOCIATES, INC.
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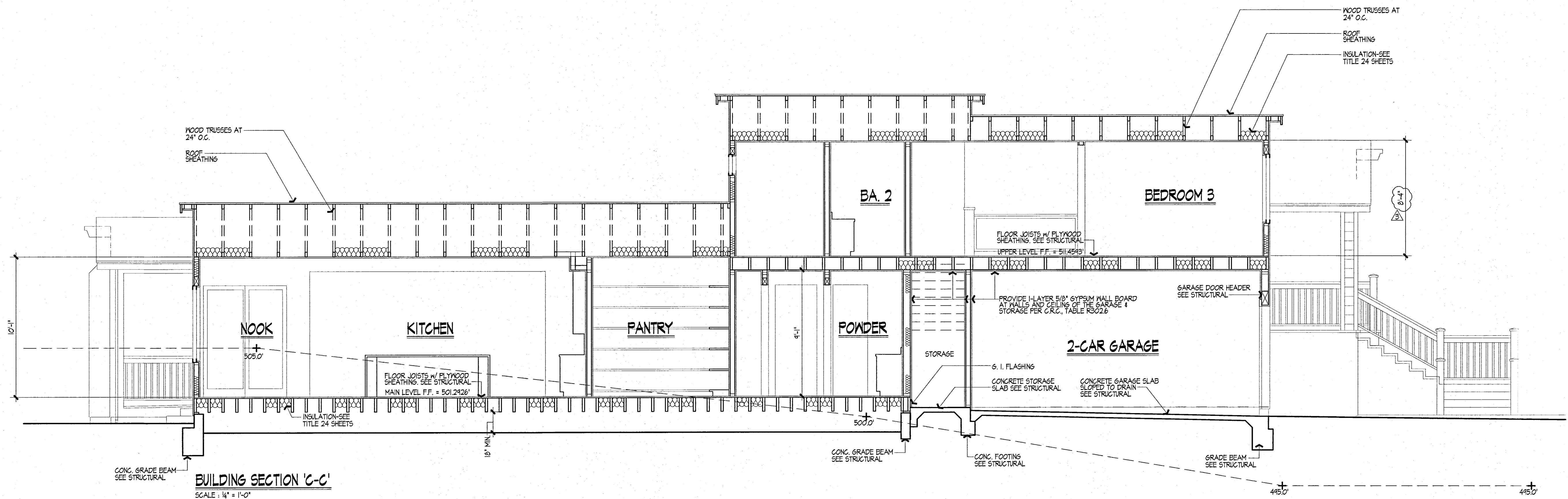
REVIEWED FOR CODE COMPLIANCE
This review is for code compliance only and does not constitute an endorsement of the design or construction of the building.

REVISED FOR CODE COMPLIANCE
SAN MATEO COUNTY BUILDING INSPECTOR
JULY 13, 2019



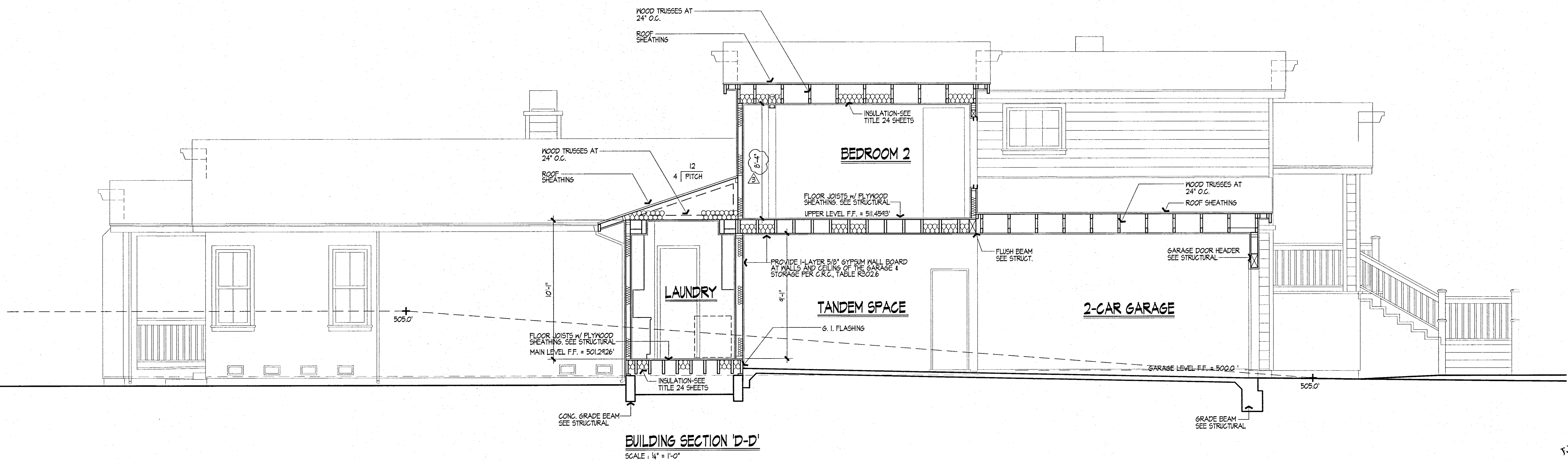
NOTE:
FOR R-VALUE ON INSULATION REFER TO SHEET T-24.4
UNDER SUMMARY SHEET.
RADIANT FOIL BARRIER NOT REQUIRED.



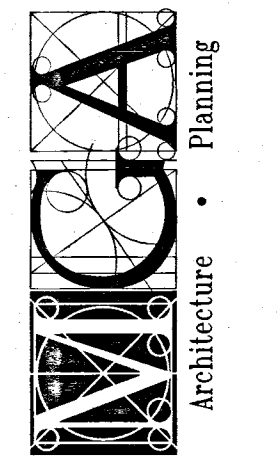


BUILDING SECTION 'C-C'
SCALE: 1/4" = 1'-0"

NOTE:
FOR R-VALUE ON INSULATION REFER TO SHEET T-24.4
UNDER SUMMARY SHEET.
RADIANT FOIL BARRIER NOT REQUIRED.



BUILDING SECTION 'D-D'
SCALE: 1/4" = 1'-0"



Mark Gross & Associates, Inc.
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Irvine, California 92614
(949) 397-3800 Fax (949) 397-8868

"HIGHLAND ESTATES, LOT 10"
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
165 SIXTH AVENUE, SUITE 230
SAN FRANCISCO, CALIFORNIA 94103
PHONE (415) 455-5382 FAX (415) 995-0066

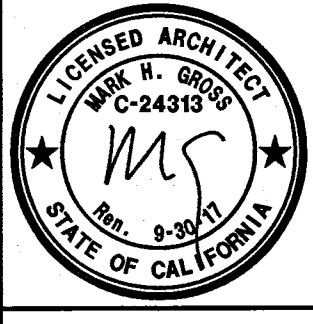
REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.

NOV 9 2019
SAN MATEO COUNTY BLDG. INSP. DIV.

LOT No. 10
BUILDING SECTIONS

REVISIONS

▲	FEB 9 2017	P.C. 1
▲	FEB 9 2017	PLANS C
▲	JUNE 5 2017	PLANS C-2



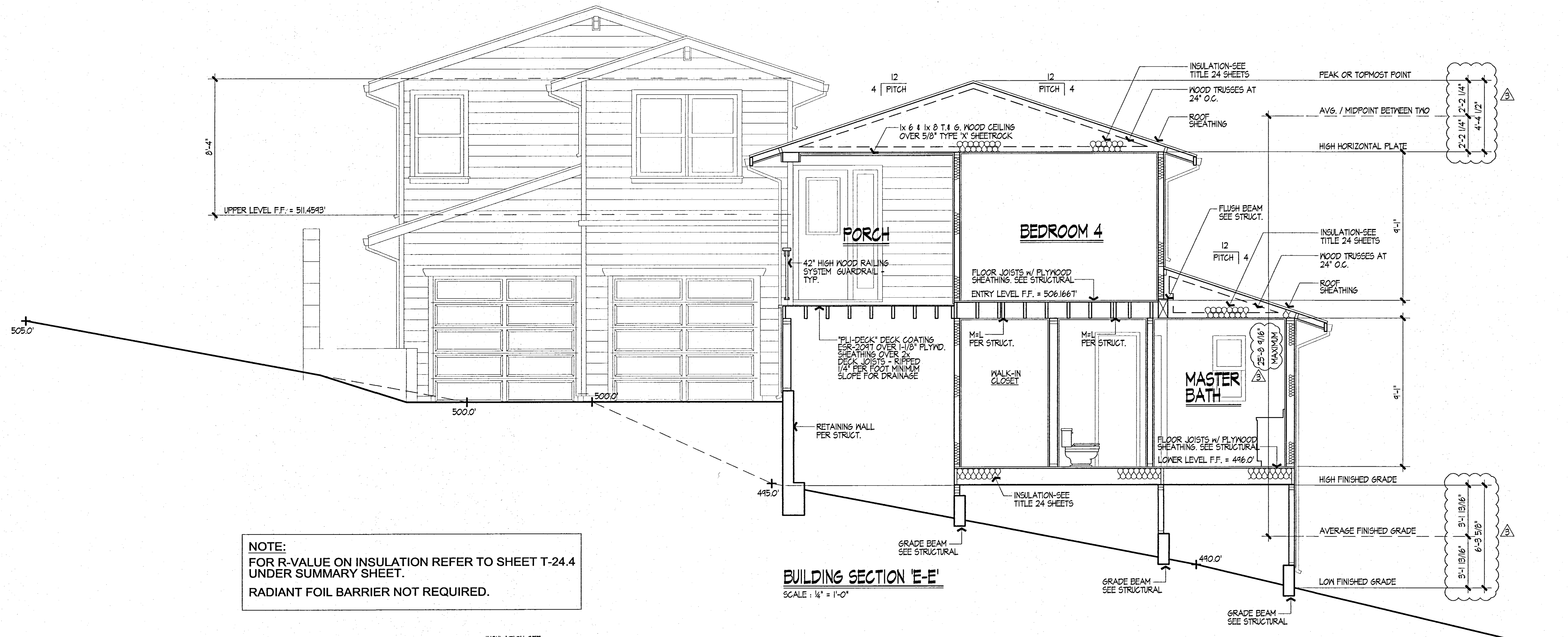
ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

DESIGNED BY
DRAWN BY
CHECKED BY
JOB NO.
DATE
JANUARY 06, 2016
SHEET NO.

RESUBMITTED
OCT 31 2017
San Mateo County Building Dept.

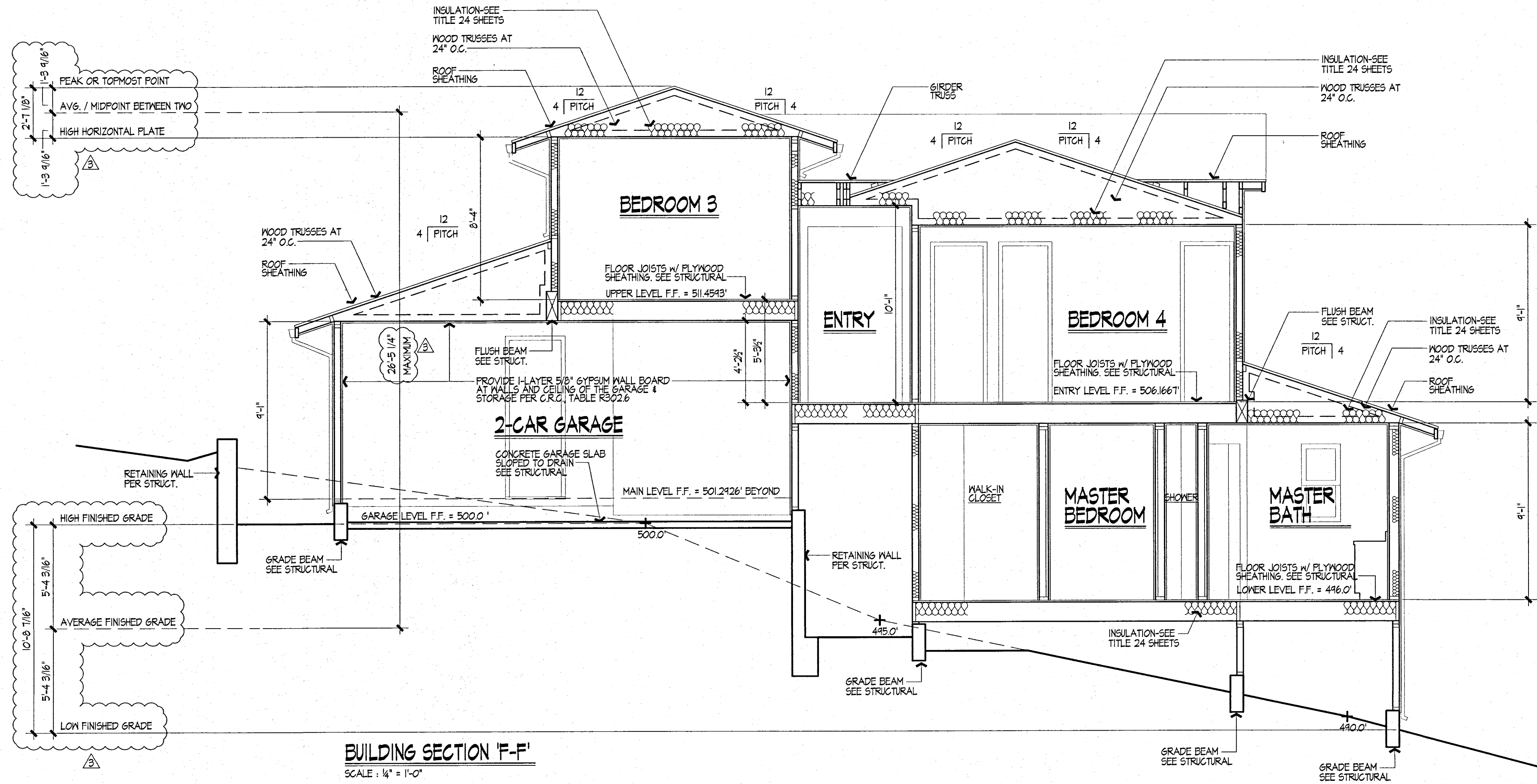
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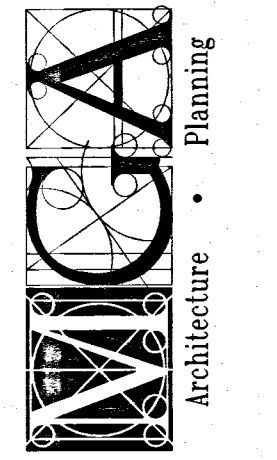


NOTE:
FOR R-VALUE ON INSULATION REFER TO SHEET T-24.4
UNDER SUMMARY SHEET.
RADIANT FOIL BARRIER NOT REQUIRED.

BUILDING SECTION 'E-E'
SCALE: 1/4" = 1'-0"



BUILDING SECTION 'F-F'
SCALE: 1/4" = 1'-0"



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8001 Research Drive
Irvine, California 92618
(949) 367-3000 Fax (949) 367-3000

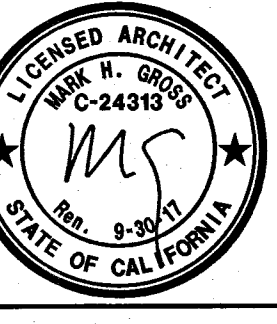
"HIGHLAND ESTATES, LOT 10"
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
SAN CARLOS, CALIFORNIA 94070
PHONE (650) 555-5882 FAX (650) 555-5065

REVIEWED FOR COMPLIANCE
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of State or County building laws.

REV. 1 2019
SAN MATEO CO. LDG. INSP. DIV.

LOT No. 10
BUILDING SECTIONS

REVISIONS	P.C.
▲ FEB 8, 2011	P.C. 1
▲ FEB 9, 2011	PLANNING
▲ JUNE 30, 2011	PLANS



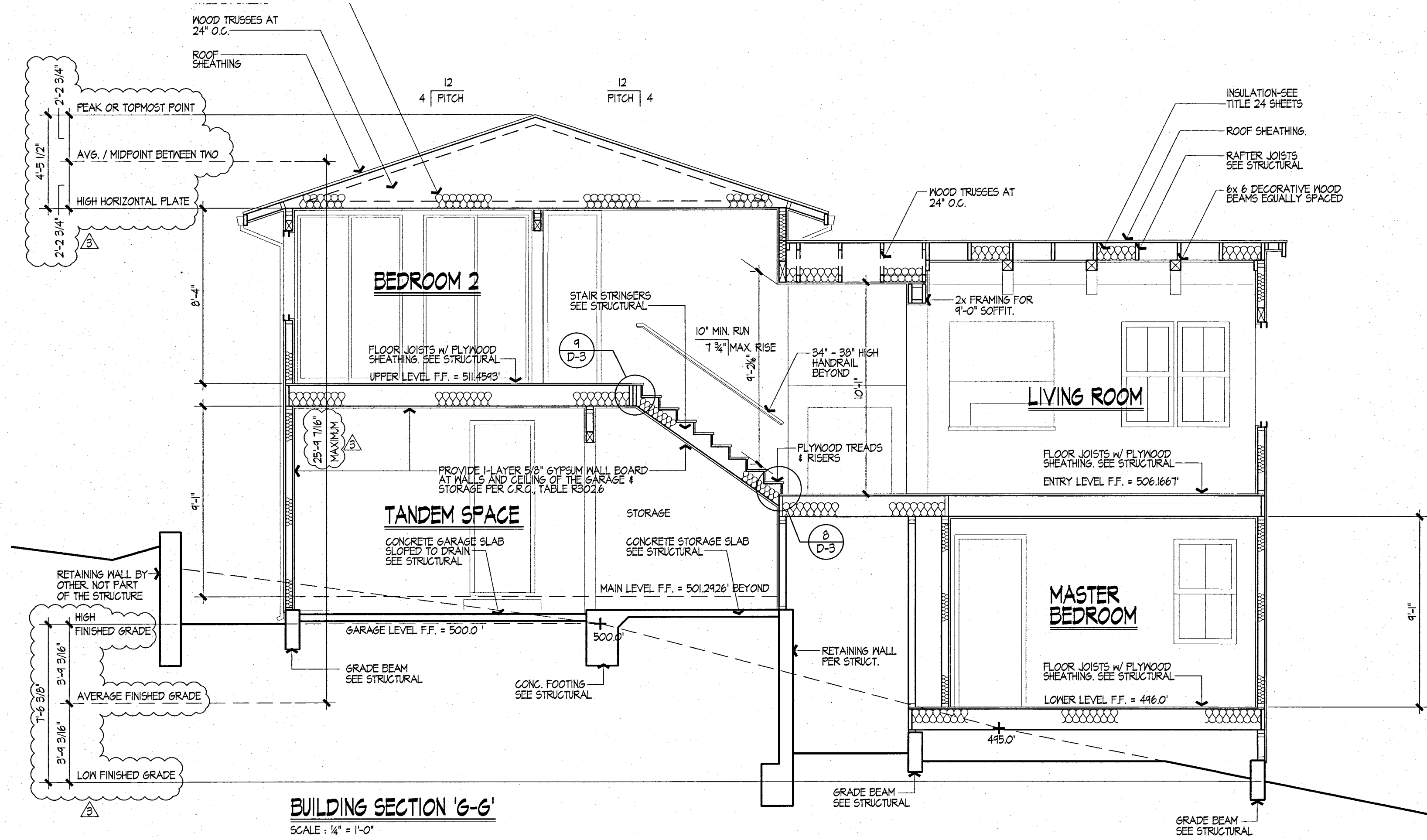
ALL DIMENSIONS & CONDITIONS
ARE TO BE VERIFIED BY CON-
TRACTOR BEFORE START OF
CONSTRUCTION.

DESIGNED BY	
DRAWN BY	RLS.
CHECKED BY	
JOB NO.	4271
DATE	JANUARY 06, 2016
SHEET NO.	

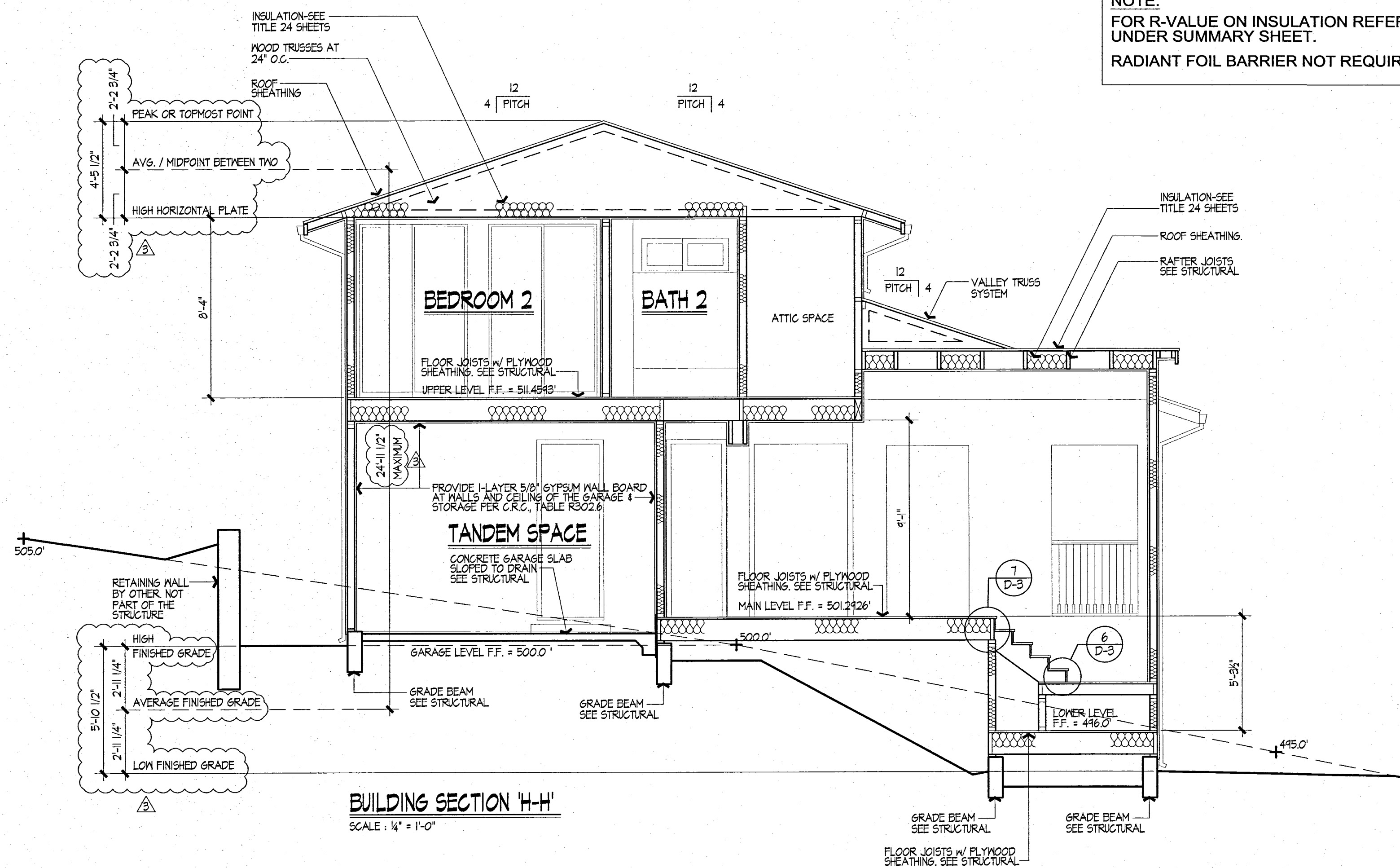
RESUBMITTED
OCT 31 2017
San Mateo County Building Dept.

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BUILDING SECTION 'G-G'
SCALE: 1/4" = 1'-0"



BUILDING SECTION 'H-H'
SCALE: 1/4" = 1'-0"

NOTE:
FOR R-VALUE ON INSULATION REFER TO SHEET T-24.4 UNDER SUMMARY SHEET.
RADIANT FOIL BARRIER NOT REQUIRED.

REVIEWED FOR COMPLIANCE
This review does not authorize violation of State or County building laws.

NO. 13-119
SAN MATEO CO. BUILDING INSP. DIV.

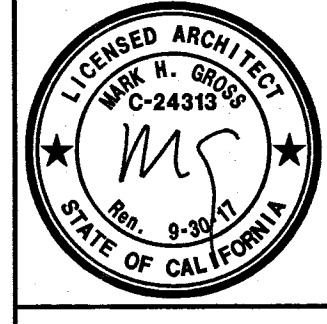
MARK GROSS & ASSOCIATES, INC.
1801 BARNHART DRIVE
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(949) 397-3800 FAX (949) 397-3808

MARK GROSS & ASSOCIATES, INC.
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TICONDEROGA PARTNERS, LLC
650 SKY WAY, SUITE 200
SAN MATEO, CALIFORNIA 94401
PHONE (650) 555-5282 FAX (650) 555-0888

LOT No. 10
BUILDING SECTIONS

REVISIONS

▲	FEB 9 2017	P.C. 1
▲	FEB 9 2017	PLANNING
▲	FEB 9 2017	PLANNING



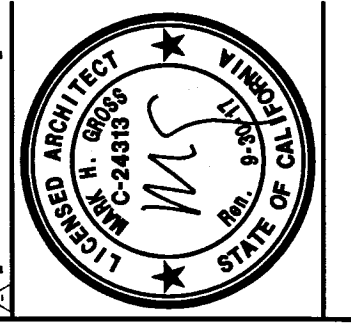
ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

DESIGNED BY
DRAWN BY
CHECKED BY
JOB NO.
DATE
JANUARY 06, 2016
SHEET NO.

RESUBMITTAL
OCT 31 2017
San Mateo County Building Dept.

10-9

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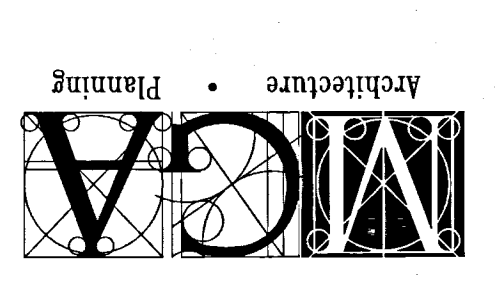
ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE TO FACE UNLESS OTHERWISE NOTED.
NO. OF WORK TO BE DONE: 100%
DATE OF START OF CONSTRUCTION: 01/15/2017

LOT No. 10
BUILDING SECTIONS

NOV 13 2019
SAN MATEO CO BIDS INSP. DIS.

"HIGHLAND ESTATES, LOT 10"
2184 COBLEHILL PLACE
SAN MATEO, CALIFORNIA
TICONDEROGA PARTNERS, LLC
655 SAN MATEO AVENUE, SUITE 200
SAN MATEO, CALIFORNIA 94403
PHONE (650) 885-5555 FAX (650) 885-5556

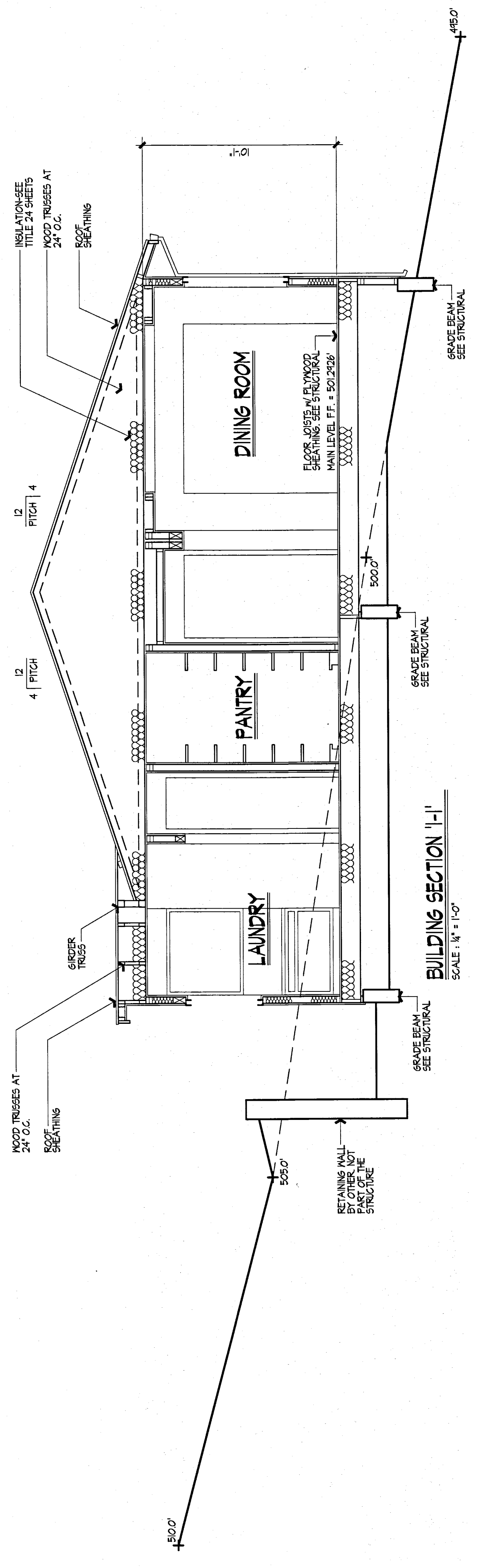
Mark Gross & Associates, Inc.
1881 Redwood Drive
Berkeley, California 94708
(415) 887-8800 Fax (415) 887-7800



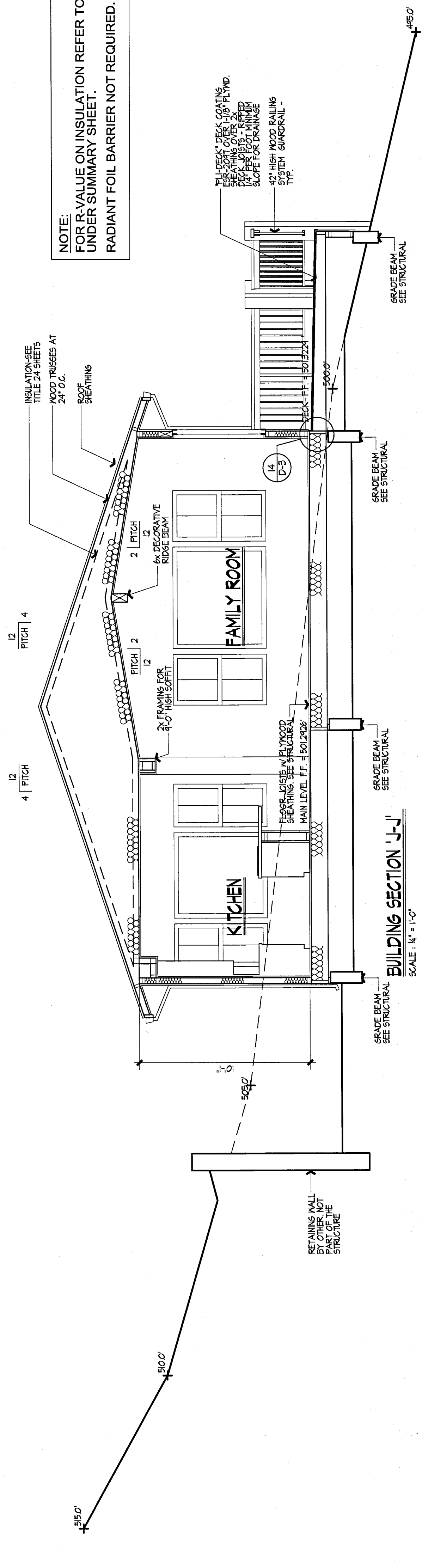
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RESUBMITTAL
FEB 16 2017
Building Inspection

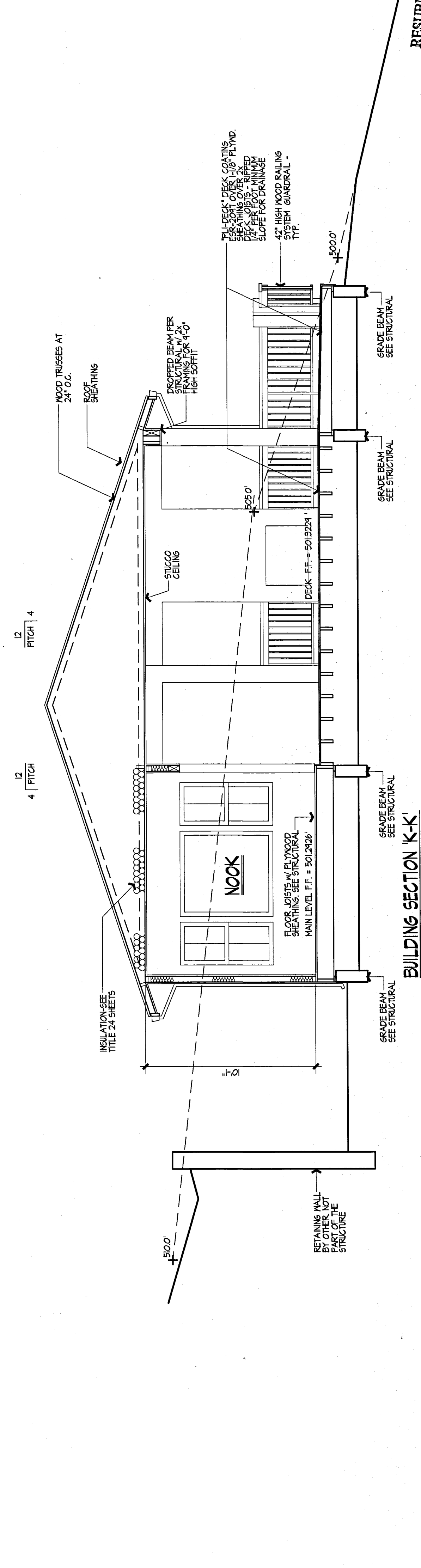
NOTE:
FOR R-VALUE ON INSULATION REFER TO SHEET T-24.4
UNDER SUMMARY SHEET.
RADIANT FOIL BARRIER NOT REQUIRED.



BUILDING SECTION I-I
SCALE: 1/4" = 1'-0"

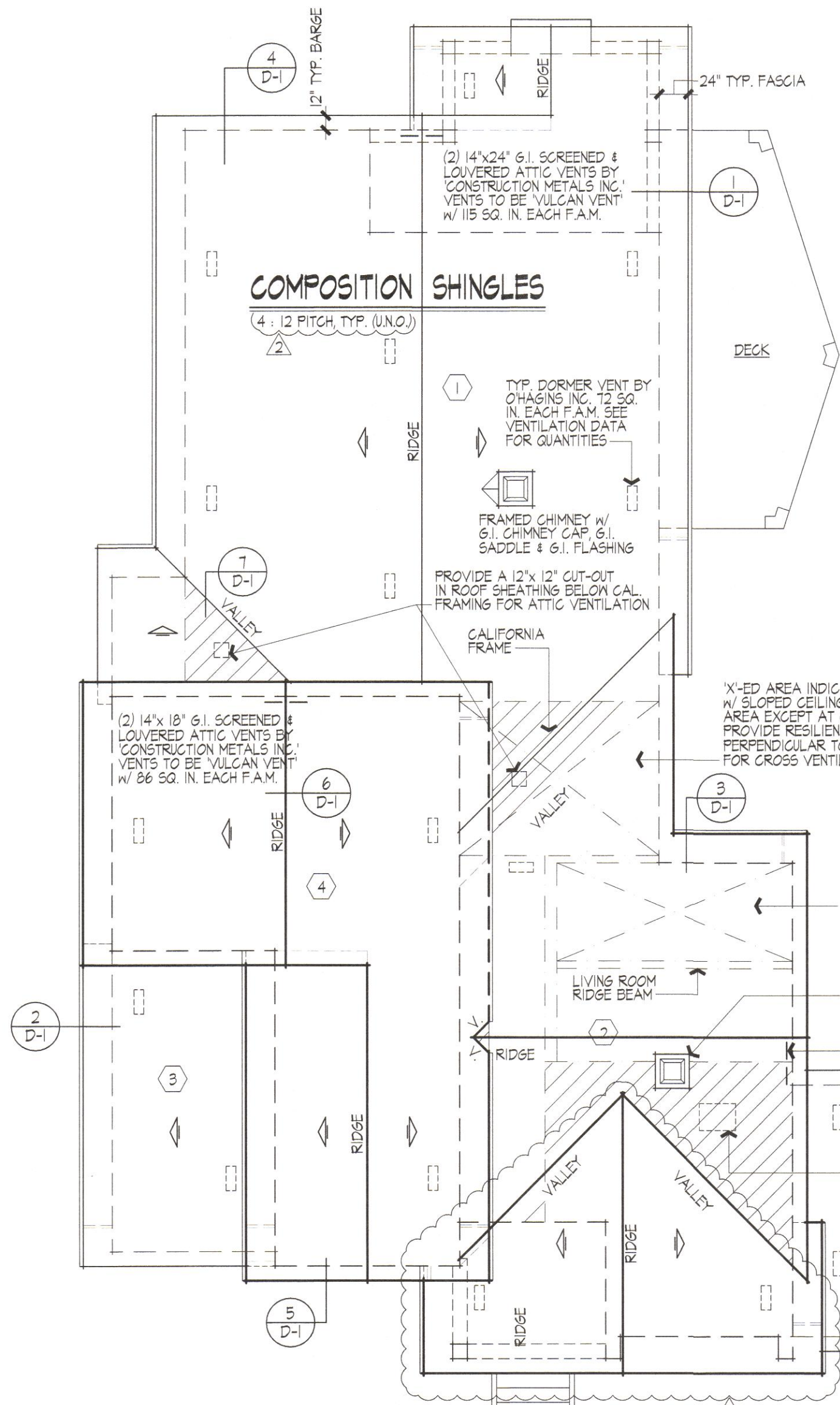


BUILDING SECTION J-J
SCALE: 1/4" = 1'-0"



BUILDING SECTION K-K
SCALE: 1/4" = 1'-0"

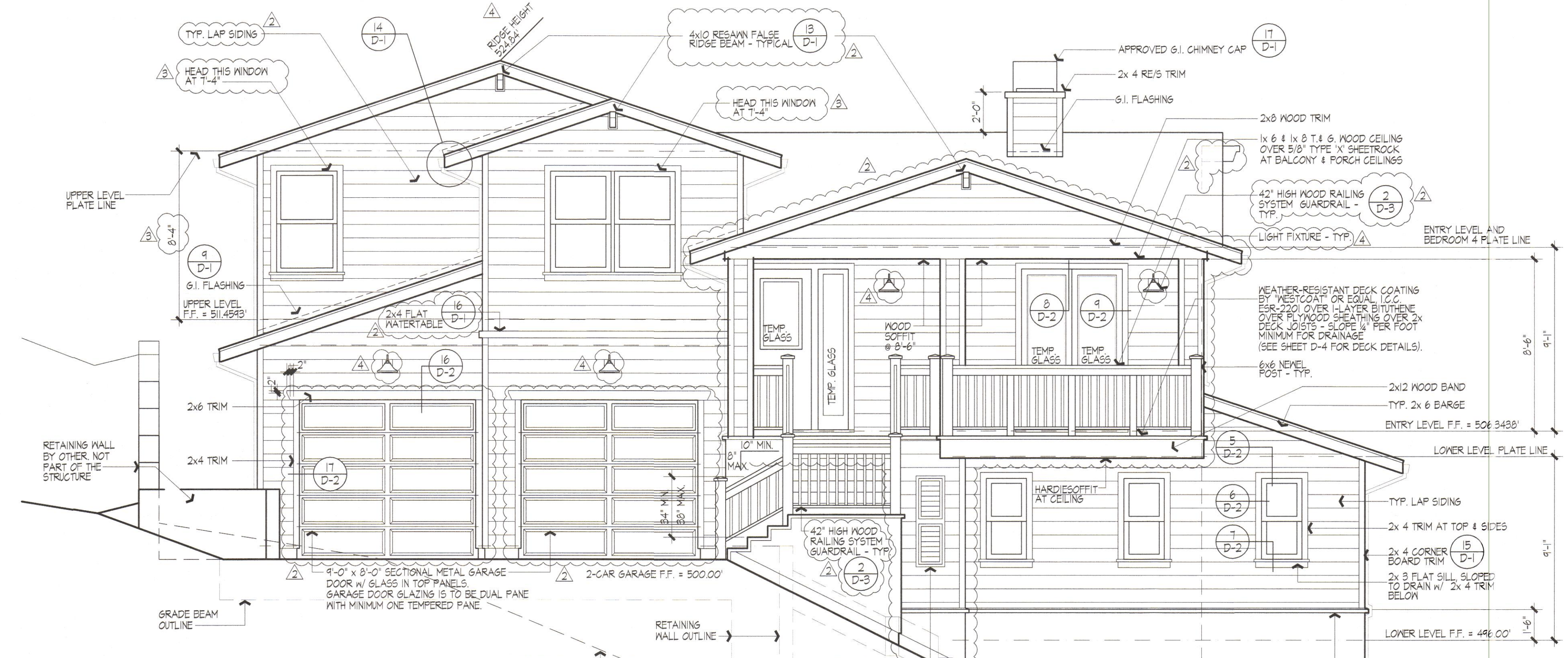
REVIEWED FOR CODE COMPLIANCE
By: [Signature]



NOTE:
1. FOR COMPLETE ROOFING DETAILS SEE SHEET D-1. INSTALLATION TO BE PER MANUFACTURER SPECIFICATIONS.
2. RADIANT FOIL BARRIER IS NOT REQUIRED. SEE SHEET T-241.
3. THE BUILDING IS IN A VERY HIGH FIRE HAZARD SEVERITY ZONE AND WILL REQUIRE A CLASS 'A' ROOF.
4. ROOF COVERINGS THAT CREATE A SPACE BETWEEN THE ROOF COVERING AND THE ROOF DECK SHALL HAVE ONE LAYER OF 1/2" MINERAL SURFACED CAP SHEET INSTALLED OVER THE COMBUSTIBLE ROOF DECK.
5. VENTILATION OPENINGS FOR ATTICS ENCLOSED EAVE SOFFITS, ENCLOSED RAFTER SPACES AND UNDER FLOOR AREAS SHALL BE NON-COMBUSTIBLE, CORROSION RESISTANT AND HAVE WIRE MESH WITH 1/16" TO 1/8" OPENINGS OR ITS EQUIVALENT.

X-ED AREA INDICATES RAFTER JOISTS W/ SLOPED CEILING. NO ATTIC OVER THIS AREA EXCEPT AT CALIFORNIA FRAMING. PROVIDE RESILIENT CHANNELS AT 24" O.C. PERPENDICULAR TO THE JOISTS TO ALLOW FOR CROSS VENTILATION.
X-ED AREA INDICATES RAFTER JOISTS W/ SLOPED CEILING. NO ATTIC OVER THIS AREA EXCEPT AT CALIFORNIA FRAMING. PROVIDE RESILIENT CHANNELS AT 24" O.C. PERPENDICULAR TO THE JOISTS TO ALLOW FOR CROSS VENTILATION.

FRAMED CHIMNEY W/ 6:1 CHIMNEY CAP & 6:1 FLASHING
PROVIDE A 22"x30" CUT-OUT IN ROOF SHEATHING BELOW CAL. FRAMING FOR ATTIC ACCESS & VENTILATION
TYP. 6:1 GUTTER AT EAVES



FRONT ELEVATION
SCALE: 1/4" = 1'-0"

NOTES:
ALL FASCIAS & BARGES TO BE 2x8 RESAWN UNLESS NOTED OTHERWISE.
TRIM APPLIED OVER STUCCO TO BE FOAM W/ STUCCO FINISH COAT OVER UNLESS NOTED OTHERWISE.
ALL 1/8" STUCCO TO BE A 3-COAT SYSTEM W/ A LIGHT LACE FINISH.
PROVIDE 'MOISTOP' FLASHING AROUND ALL EXTERIOR WALL OPENINGS AND PENETRATIONS.
LAPPED SIDING TO BE HARDPLANK SIDING BY JAMES HARDIE BUILDING PRODUCTS OVER A MIN. 1-LAYER OF 1/2" BUILDING PAPER. SIDING IS A NON-COMBUSTIBLE MATERIAL. ICC-ES REPORT - ESR-2230.
PROVIDE AN 8" EXPOSURE ON THE SIDING.
A WATER-RESISTIVE BARRIER SHALL BE INSTALLED BETWEEN WOOD-BASED SHEATHING & STUCCO WITH A PERFORMANCE EQUIVALENT TO AT LEAST 2 LAYERS OF GRADE 'D' PAPER CBC 2510.6
ALL TRIM OVER SIDING TO BE REIS WOOD TRIM (UNO.)
ALL EXPOSED WOOD TO BE REIS (UNO.)
SEE T-24 SHEETS FOR WINDOW REQUIREMENTS.
ALL GLAZING TO BE DUAL PANED W/ 1-PANE BEING TEMPERED GLASS. UNLESS NOTED TEMPERED, WHICH BOTH PANES NEED TO BE TEMPERED.
ALL GABLE END AND FOUNDATION VENTS TO BE BY CONSTRUCTION METALS INC. MUST BE A VULCAN VENT TO MEET THE EMBER RESISTANCE REQUIREMENTS OF SECTION R321.6 OF THE C.R.C.
ALL DORMER VENTS TO BE O'HAGEN VENTS TO MEET THE EMBER RESISTANCE REQUIREMENTS OF SECTION R321.6 OF THE C.R.C.

A WATER-RESISTIVE BARRIER SHALL BE INSTALLED BETWEEN WOOD-BASED SHEATHING & STUCCO WITH A PERFORMANCE EQUIVALENT TO AT LEAST 2 LAYERS OF GRADE 'D' PAPER CBC 2510.6
ALL TRIM OVER SIDING TO BE REIS WOOD TRIM (UNO.)
ALL EXPOSED WOOD TO BE REIS (UNO.)
SEE T-24 SHEETS FOR WINDOW REQUIREMENTS.
ALL GLAZING TO BE DUAL PANED W/ 1-PANE BEING TEMPERED GLASS. UNLESS NOTED TEMPERED, WHICH BOTH PANES NEED TO BE TEMPERED.
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ALL DORMER VENTS TO BE O'HAGEN VENTS TO MEET THE EMBER RESISTANCE REQUIREMENTS OF SECTION R321.6 OF THE C.R.C.

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

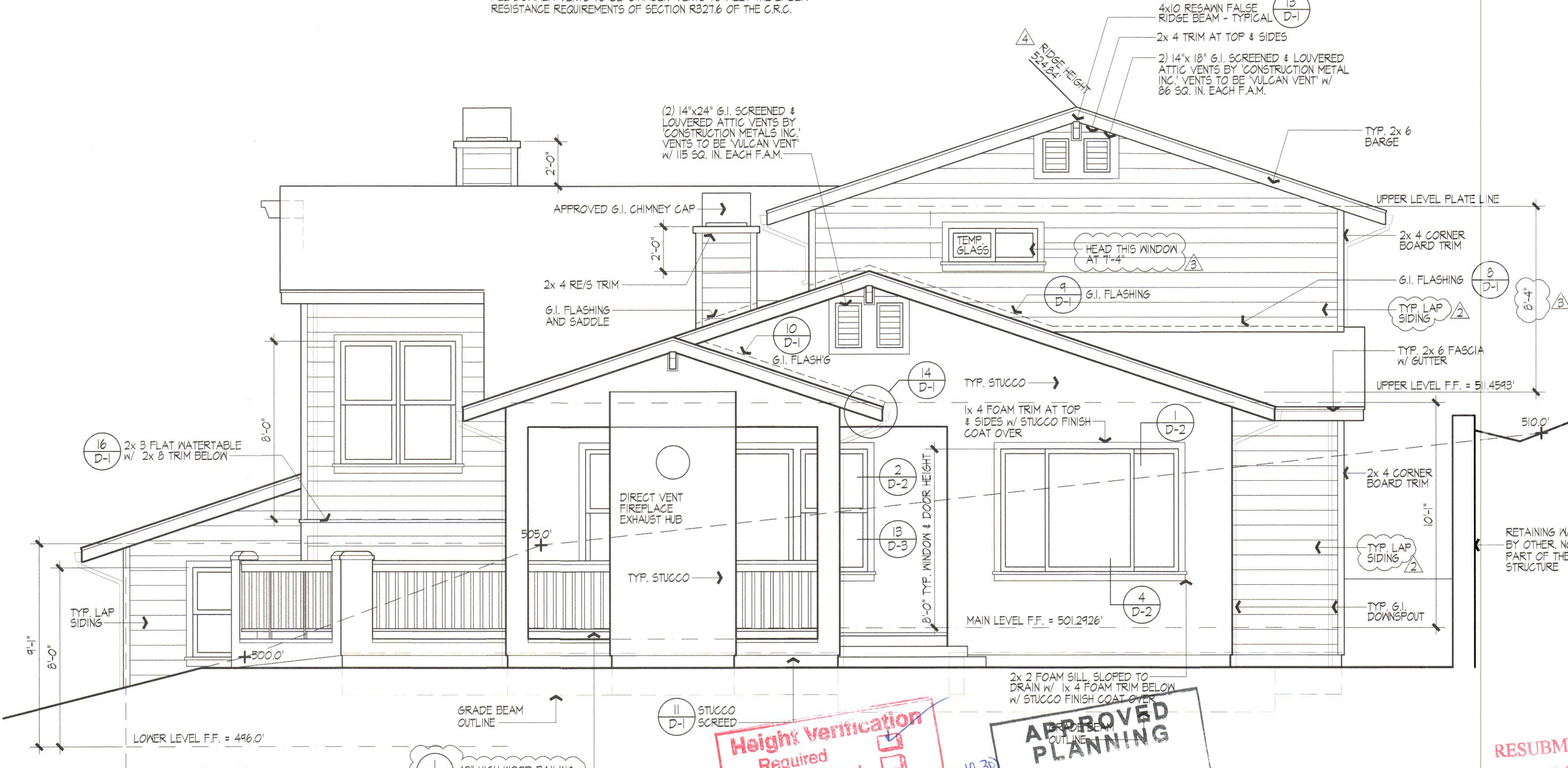
ROOF VENTILATION DATA: MAIN LEVEL ROOF
1382 SQ. FT. ATTIC/ 300 = 464 SQ. FT. x 144 SQ. IN. = 669 SQ. IN. VENTILATION AREA REQUIRED.
TOTAL VENTILATION REQUIRED TO BE DIVIDED EQUALLY AMONG UPPER AND LOWER VENTILATION PER C.B.C. SECTION 1203.
REQUIRED UPPER VENTILATION : 335 SQ. IN.
PROVIDE
(2) EMBER-RESISTANT 14"x24" GABLE VENTS = 230 SQ. IN.
1/5 SQ. IN. EACH BY CONSTRUCTION METALS INC. VENTS MUST BE VULCAN VENT TYPE
(2) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 144 SQ. IN.
TOTAL = 374 SQ. IN.
REQUIRED LOWER VENTILATION : 335 SQ. IN.
PROVIDE
(5) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 360 SQ. IN.

ROOF VENTILATION DATA: ENTRY LEVEL ROOF
644 SQ. FT. ATTIC/ 300 = 214 SQ. FT. x 144 SQ. IN. = 310 SQ. IN. VENTILATION AREA REQUIRED.
TOTAL VENTILATION REQUIRED TO BE DIVIDED EQUALLY AMONG UPPER AND LOWER VENTILATION PER C.B.C. SECTION 1203.
REQUIRED UPPER VENTILATION : 155 SQ. IN.
PROVIDE
(2) EMBER-RESISTANT 14"x18" GABLE VENTS = 172 SQ. IN.
26 SQ. IN. EACH BY CONSTRUCTION METALS INC. VENTS MUST BE VULCAN VENT TYPE
REQUIRED LOWER VENTILATION : 155 SQ. IN.
PROVIDE
(8) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 216 SQ. IN.

ROOF VENTILATION DATA: GARAGE ROOF
228 SQ. FT. ATTIC/ 300 = 0.76 SQ. FT. x 144 SQ. IN. = 110 SQ. IN. VENTILATION AREA REQUIRED.
TOTAL VENTILATION REQUIRED TO BE DIVIDED EQUALLY AMONG UPPER AND LOWER VENTILATION PER C.B.C. SECTION 1203.
REQUIRED UPPER VENTILATION : 55 SQ. IN.
PROVIDE
(1) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 72 SQ. IN.
REQUIRED LOWER VENTILATION : 55 SQ. IN.
PROVIDE
(1) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 72 SQ. IN.

ROOF VENTILATION DATA: UPPER LEVEL ROOF
686 SQ. FT. ATTIC/ 300 = 2.29 SQ. FT. x 144 SQ. IN. = 330 SQ. IN. VENTILATION AREA REQUIRED.
TOTAL VENTILATION REQUIRED TO BE DIVIDED EQUALLY AMONG UPPER AND LOWER VENTILATION PER C.B.C. SECTION 1203.
REQUIRED UPPER VENTILATION : 165 SQ. IN.
PROVIDE
(2) EMBER-RESISTANT 14"x18" GABLE VENTS = 172 SQ. IN.
26 SQ. IN. EACH BY CONSTRUCTION METALS INC. VENTS MUST BE VULCAN VENT TYPE
REQUIRED LOWER VENTILATION : 165 SQ. IN.
PROVIDE
(3) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 216 SQ. IN.

ROOF VENTILATION DATA: LOWER LEVEL ROOF
138 SQ. FT. ATTIC/ 150 = 0.92 SQ. FT. x 144 SQ. IN. = 133 SQ. IN. VENTILATION AREA REQUIRED.
REQUIRED VENTILATION : 133 SQ. IN.
PROVIDE
(2) EMBER-RESISTANT VENTS BY O'HAGENS INC. 72 SQ. IN. EACH = 144 SQ. IN.



REAR ELEVATION
SCALE: 1/4" = 1'-0"

Height Verification Required
Not Required
Benchmark Elev. 502.92 (EP P910.35)
Garage Elev. 502.69 (10.40)
1st Floor Elev. 501.58 (1)
Ridge Elev. 504.84

APPROVED PLANNING
MAY 04 2018
BY: *Clay*
San Mateo County Building Inspection

RESUBMITTAL
MAY 04 2018
San Mateo County Building Inspection

MARK GROSS & ASSOCIATES, INC.
8881 Research Drive
Irvine, California 92618
(949) 387-3800 Fax (949) 387-7800

MARK GROSS & ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MARK GROSS & ASSOCIATES, INC.
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
SAN MATEO PARTNERS, LLC
655 SKYWAY, SUITE 200
SAN CARLOS, CALIFORNIA 94070
PHONE (650) 956-5582 FAX (650) 956-5066

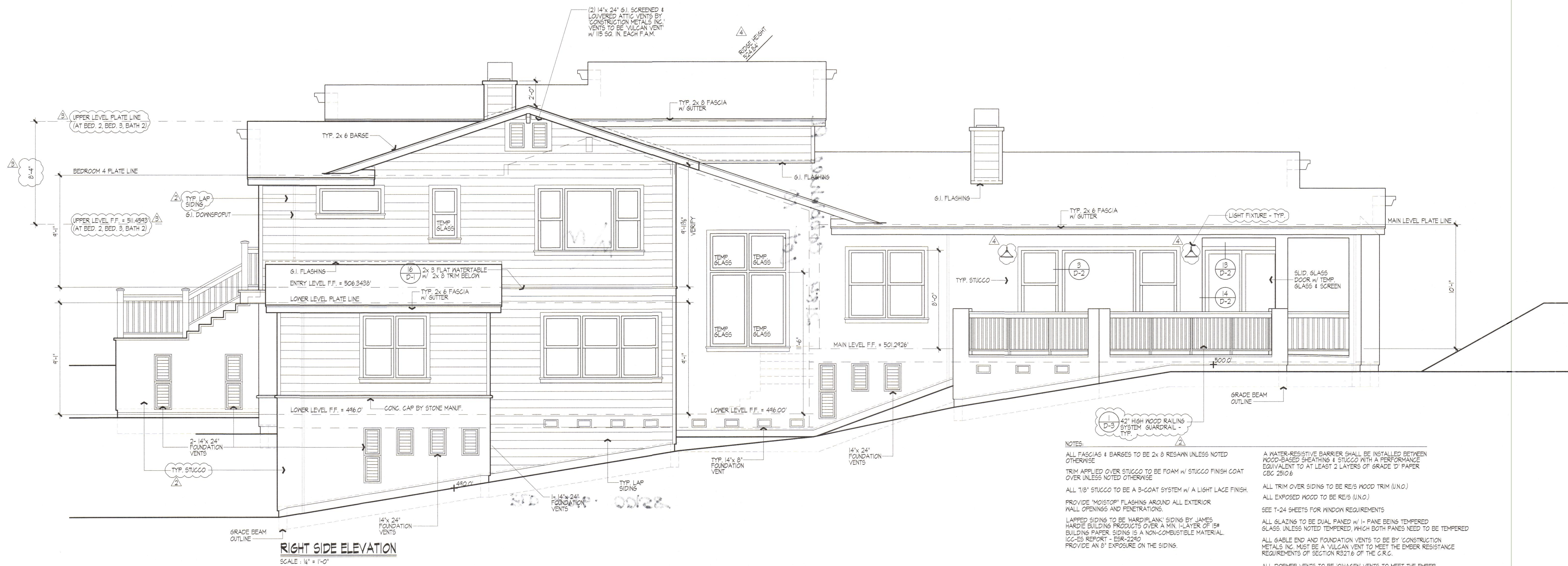
REVISIONS
FEB. 8 2017 P.C.1
FEB. 4 2017 PLANNING C
NOV. 8 2017 PLANNING C

LICENSED ARCHITECT
MARK G. GROSS
C-24381
EXPIRES 9-30-21
STATE OF CALIFORNIA

ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

DESIGNED BY
DRAWN BY
CHECKED BY
DATE
JOB NO.
4271
JANUARY 06 2016
SHEET NO.

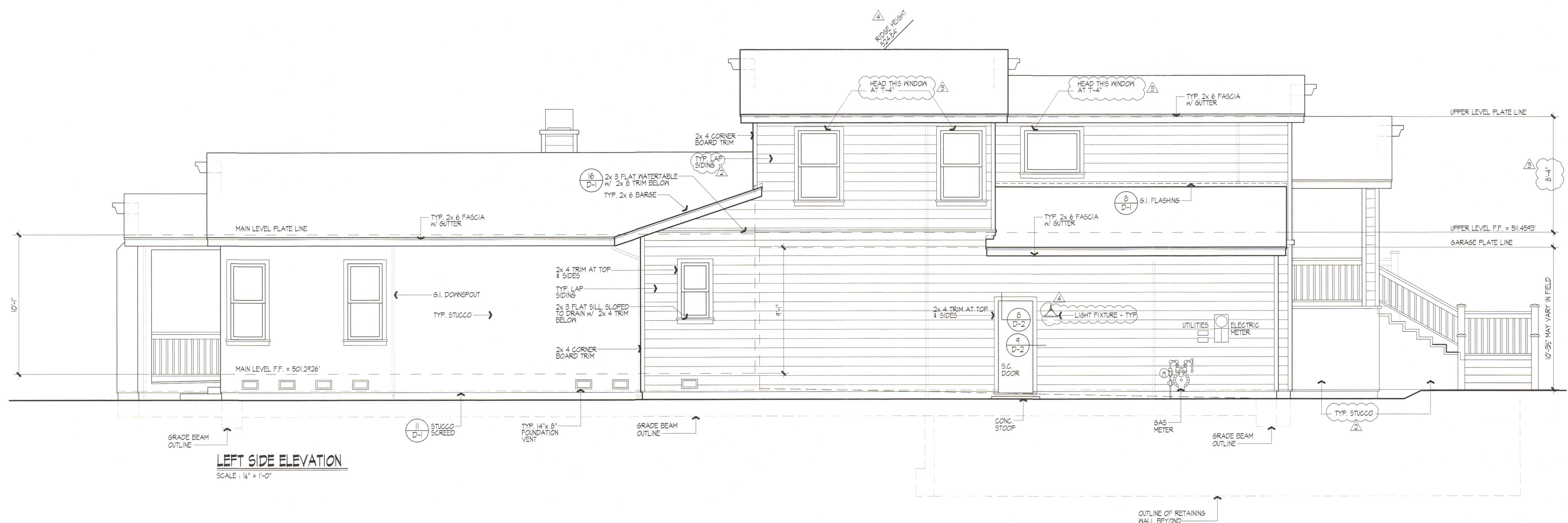
10-11



RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"

NOTES:

- ALL FASCIAS & BARGES TO BE 2x6 RESAWN UNLESS NOTED OTHERWISE
- TRIM APPLIED OVER STUCCO TO BE FOAM W/ STUCCO FINISH COAT OVER UNLESS NOTED OTHERWISE
- ALL 1/8" STUCCO TO BE A 3-COAT SYSTEM W/ A LIGHT LACE FINISH.
- PROVIDE "NOISSTOP" FLASHING AROUND ALL EXTERIOR WALL OPENINGS AND PENETRATIONS.
- LAPPED SIDING TO BE HARDPLANK SIDING BY JAMES HARDIE BUILDING PRODUCTS OVER A MIN. 1-LAYER OF 15# BUILDING PAPER. SIDING IS A NON-COMBUSTIBLE MATERIAL. ICC-ES REPORT - ESR-2240
- PROVIDE AN 8" EXPOSURE ON THE SIDING.
- A WATER-RESISTIVE BARRIER SHALL BE INSTALLED BETWEEN WOOD-BASED SHEATHING & STUCCO WITH A PERFORMANCE EQUIVALENT TO AT LEAST 2 LAYERS OF GRADE D' PAPER CBC 2910.6
- ALL TRIM OVER SIDING TO BE RE/S WOOD TRIM (UNO.)
- ALL EXPOSED WOOD TO BE RE/S (UNO.)
- SEE T-24 SHEETS FOR WINDOW REQUIREMENTS
- ALL GLAZING TO BE DUAL PANED W/ 1-PANE BEING TEMPERED GLASS. UNLESS NOTED TEMPERED, WHICH BOTH PANES NEED TO BE TEMPERED
- ALL GABLE END AND FOUNDATION VENTS TO BE BY CONSTRUCTION METALS INC. MUST BE A VULCAN VENT TO MEET THE EMBER RESISTANCE REQUIREMENTS OF SECTION R321.6 OF THE C.R.C.
- ALL DORMER VENTS TO BE VULCAN VENTS TO MEET THE EMBER RESISTANCE REQUIREMENTS OF SECTION R321.6 OF THE C.R.C.



LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"

Mark Gross & Associates, Inc.
1881 Research Drive
Irvine, California 92618
(949) 397-3900 Fax (949) 397-7000

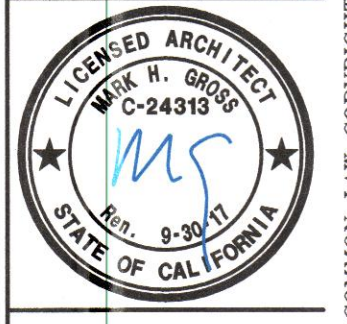
TICONDEROGA PARTNERS, LLC
SAN CARLOS, CALIFORNIA 94070
PHONE (650) 395-5582 FAX (650) 395-5586

REVIEWED FOR CODE COMPLIANCE
This review does not constitute a violation of State or County building laws.

NOV 18 2019
SAN MATEO CO. BLDG. INS. DIV.

LOT No. 10
EXTERIOR ELEVATIONS

REVISIONS	DATE	BY	DESCRIPTION
1	FEB 8 2017	P.C.1	PLANS
2	FEB 4 2017	PLANNING	PLANNING
3	NOV 15 2017	PLANNING	PLANNING



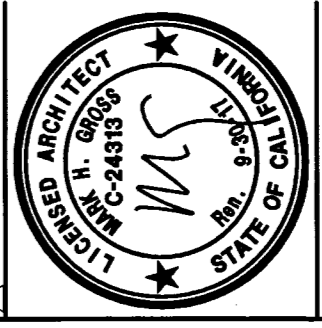
ALL DIMENSIONS & CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.

DESIGNED BY
DRAWN BY
CHECKED BY
DATE
JOB NO. 4277
DATE JANUARY 06 2016
SHEET NO.

R: SUBMITTAL
MAY 04 2018
San Mateo County Building Inspection

10-12

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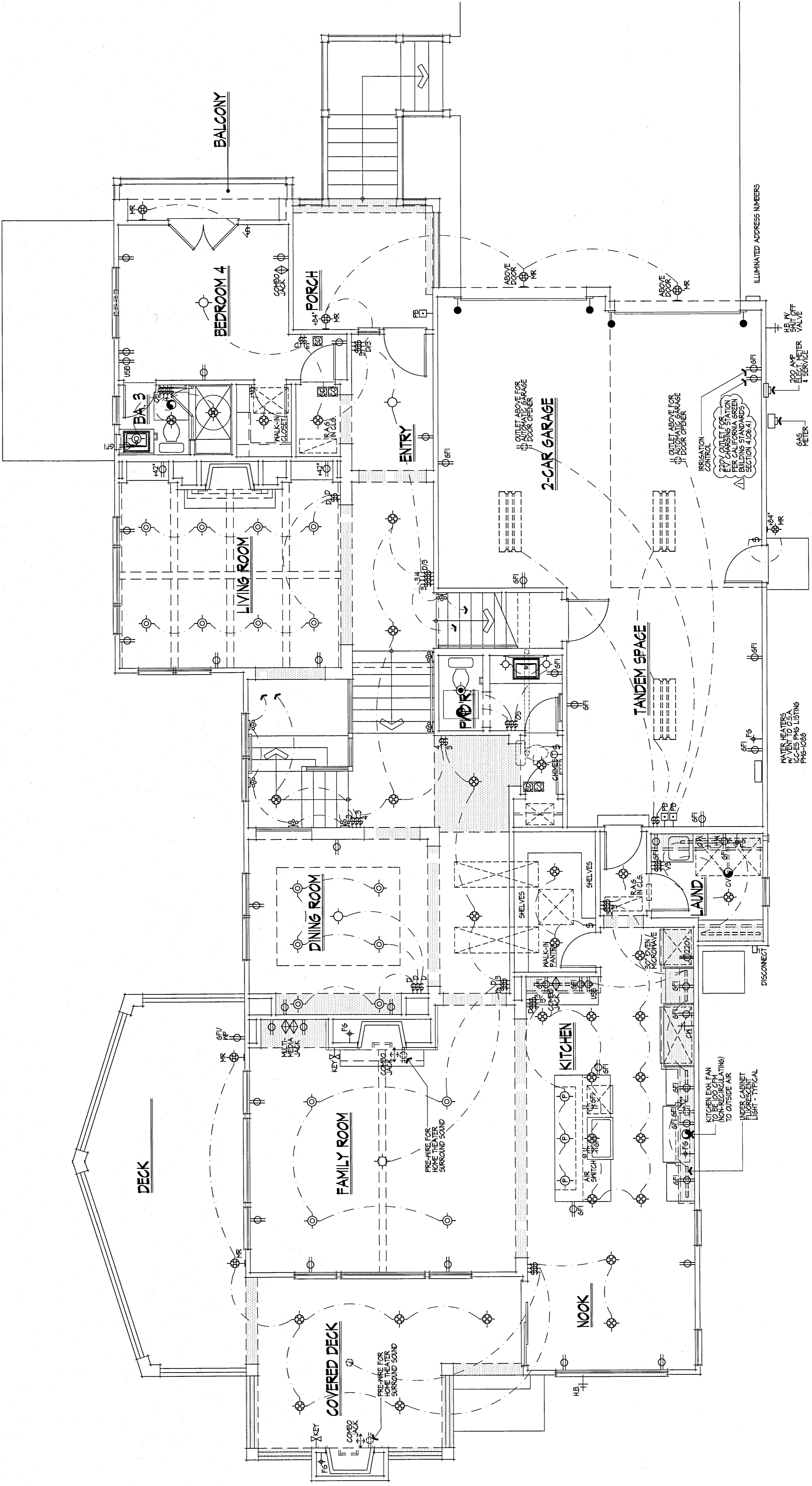
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DATE: FEB 16 2017
DRAWN BY: J. GROSS
CHECKED BY: M. GROSS
SCALE: AS SHOWN
SHEET NO. 10 OF 10
PROJECT: SAN MATEO CO BLDG INSP. DIV.
DATE: FEB 16 2017

**LOT NO. 10
MAIN LEVEL
UTILITY PLAN**

"HIGHLAND ESTATES, LOT 10"
TICONDEROGA PARTNERS, LLC
2184 COBBLEHILL PLACE
SAN MATEO, CALIFORNIA
94065
TEL (650) 998-4082 FAX (650) 998-4086
9900 S. DIABLO CALIFORNIA 94035
TEL (650) 998-4082 FAX (650) 998-4086

Mark Gross & Associates, Inc.
1881 Broadway, Suite 2010
Berkeley, California 94709
(415) 877-3000
www.mga.com
Architecture • Planning



MAIN LEVEL UTILITY PLAN
SCALE: 1/8" = 1'-0"

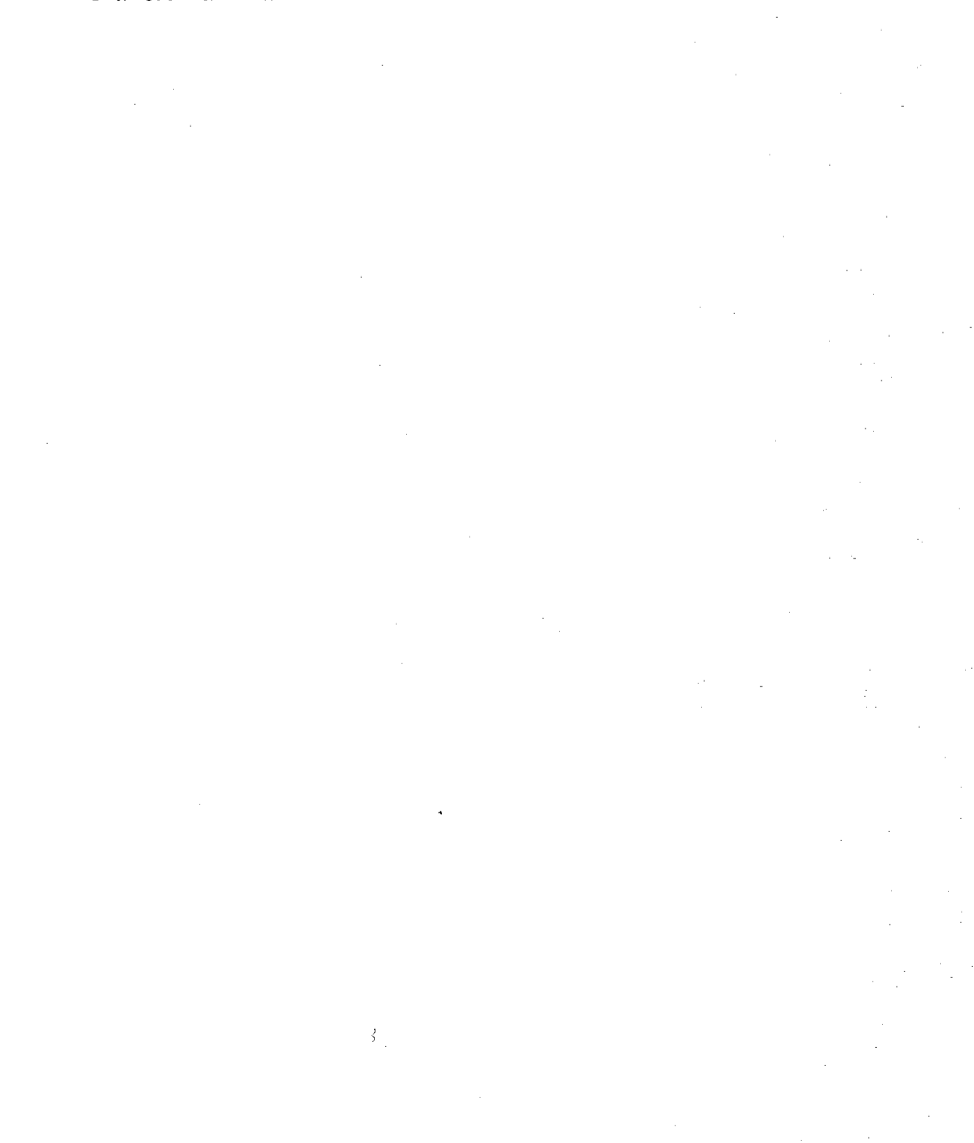
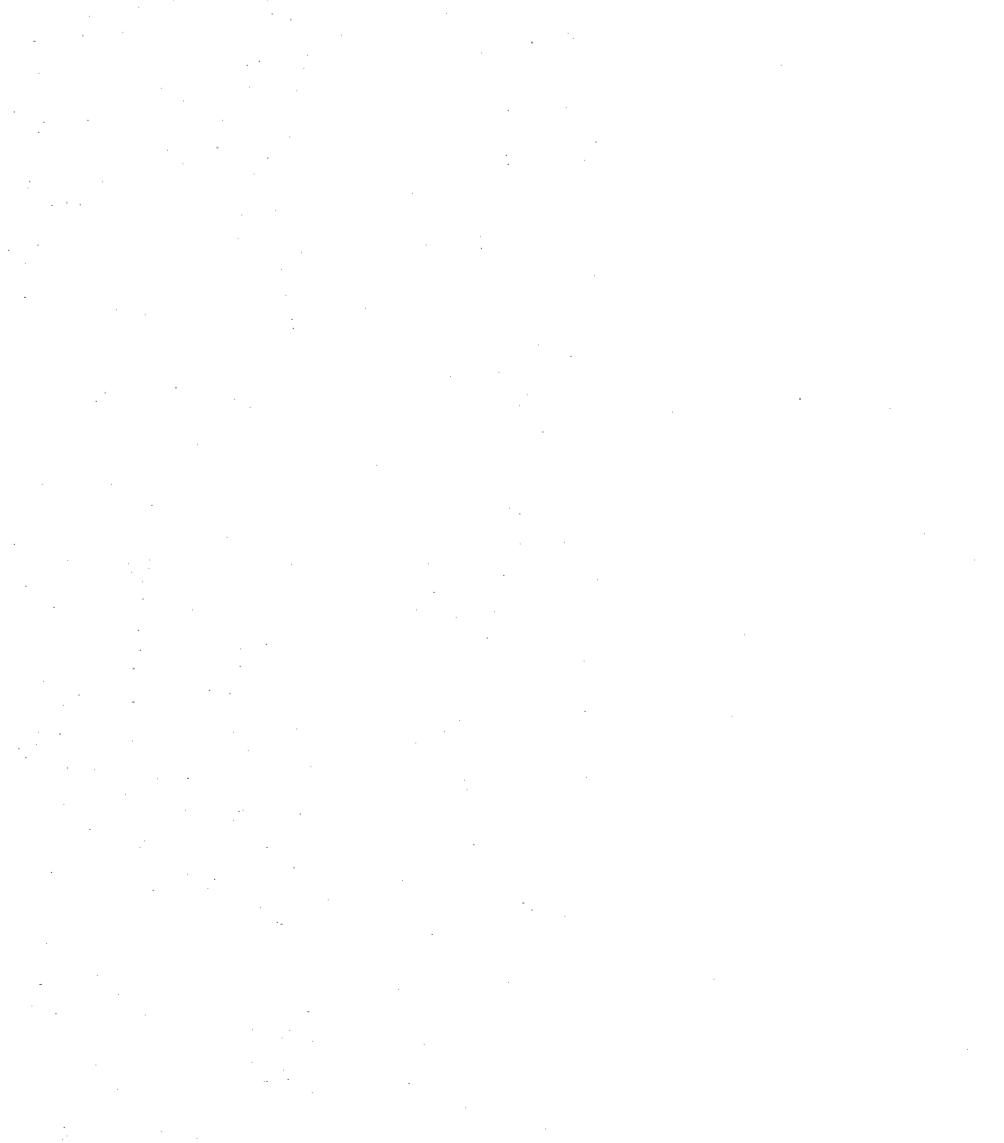
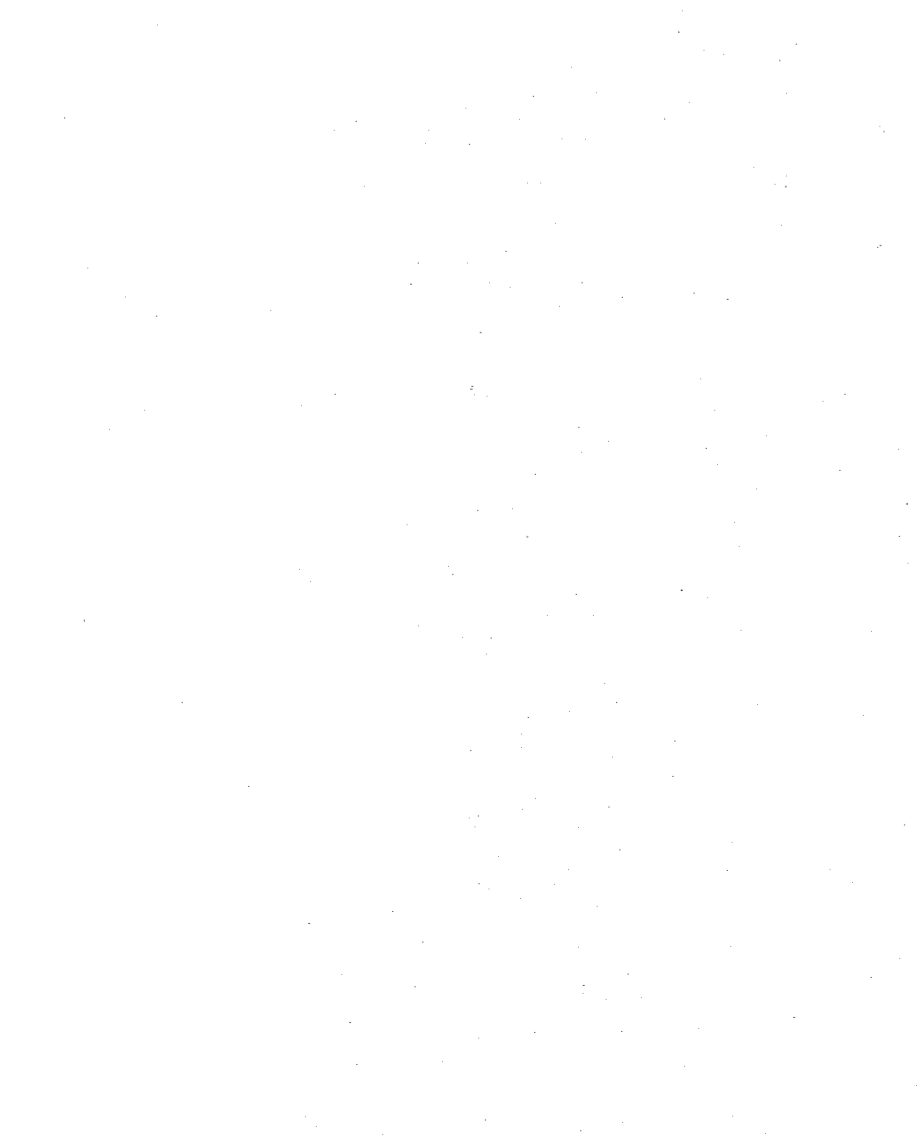
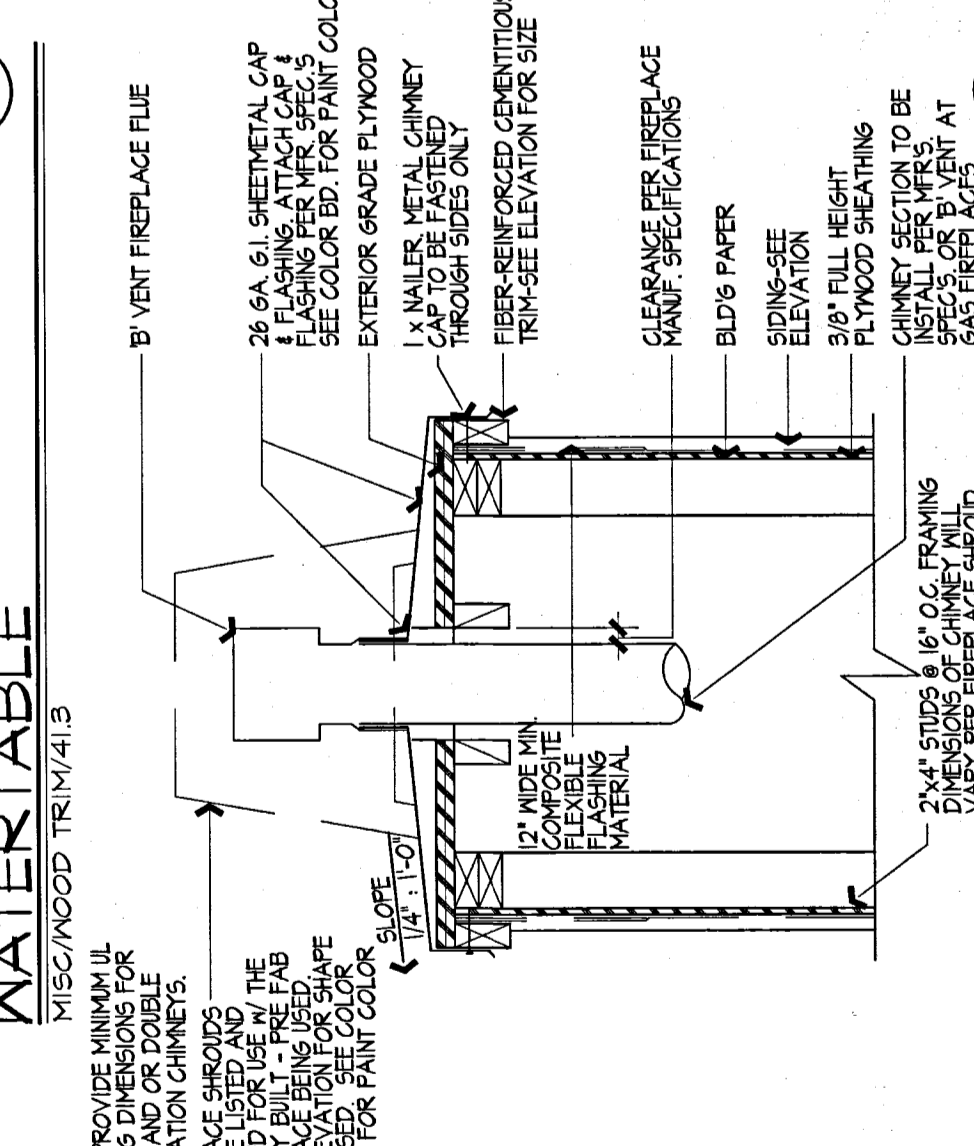
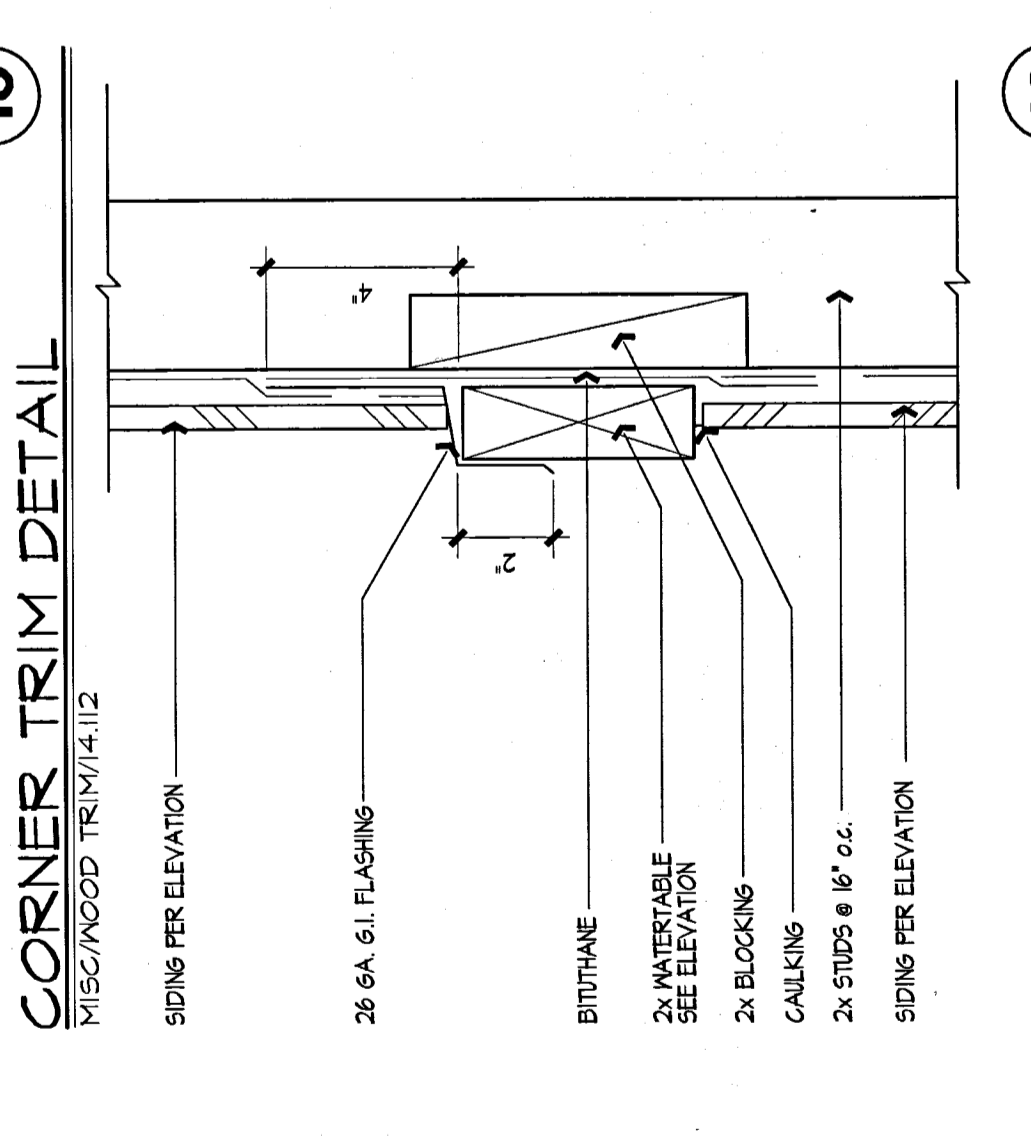
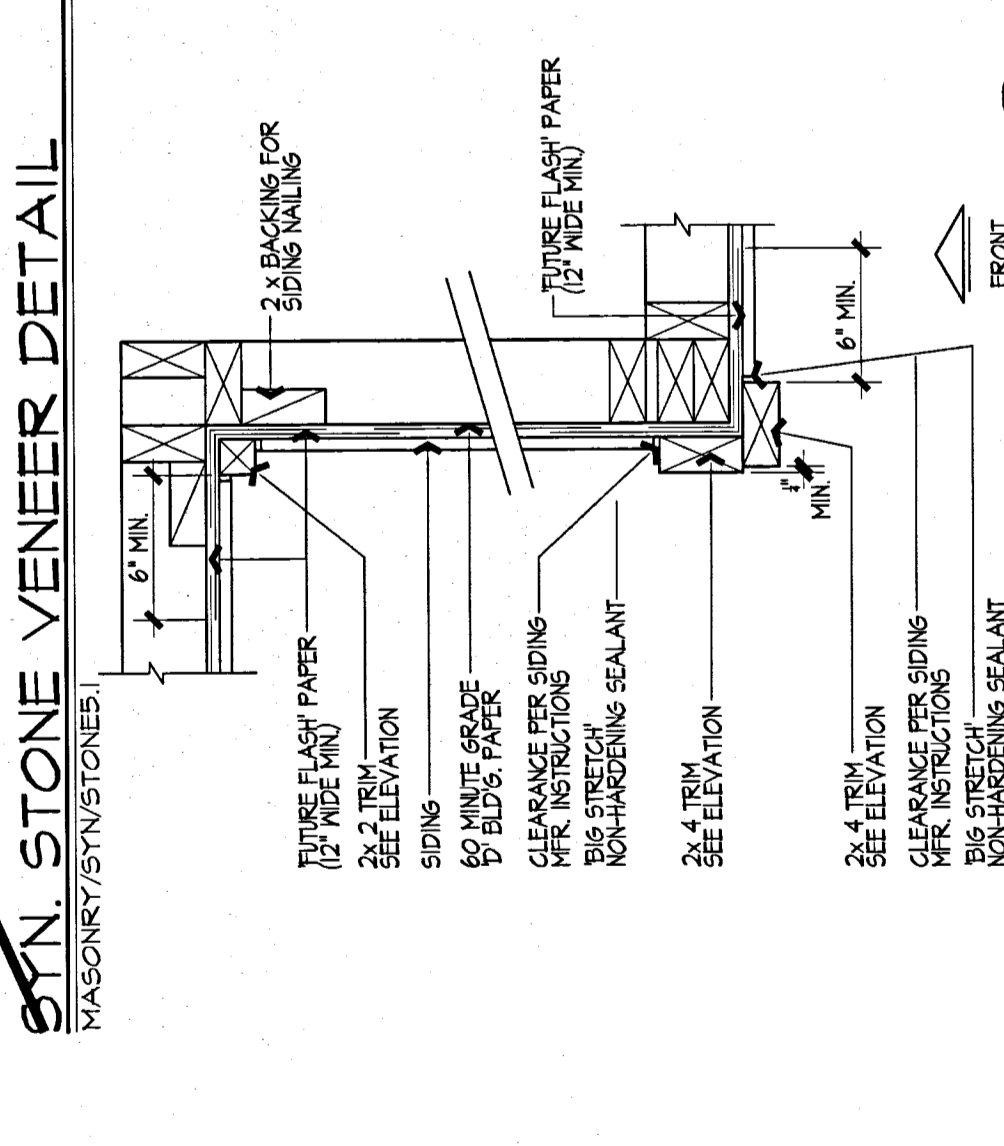
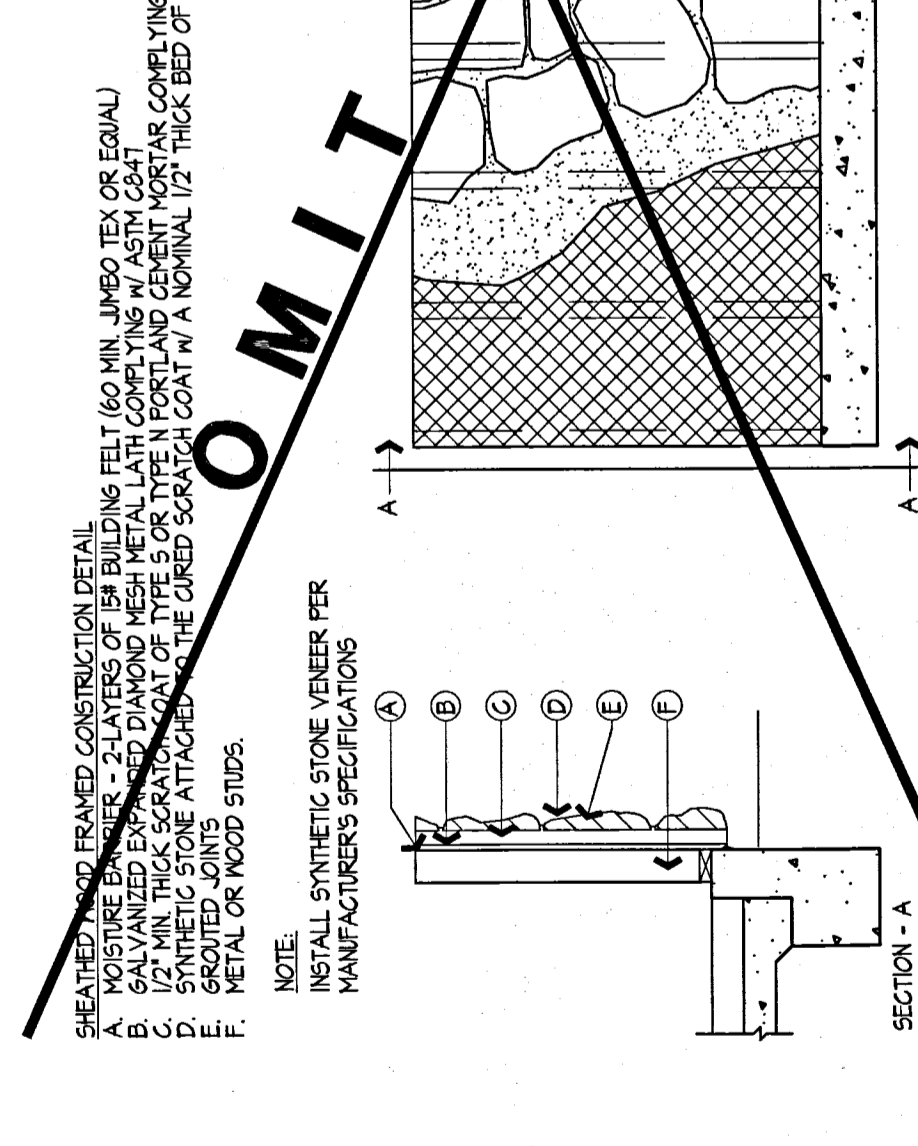
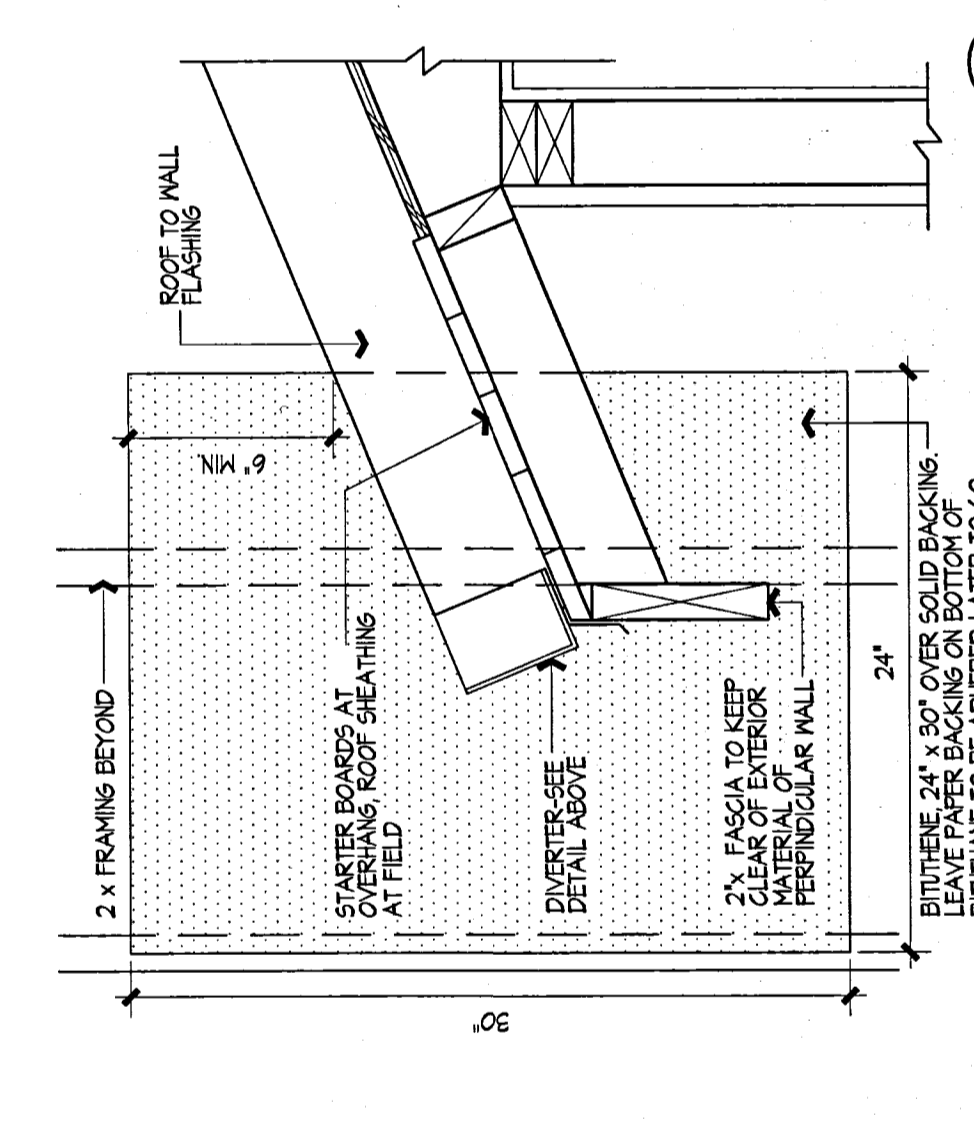
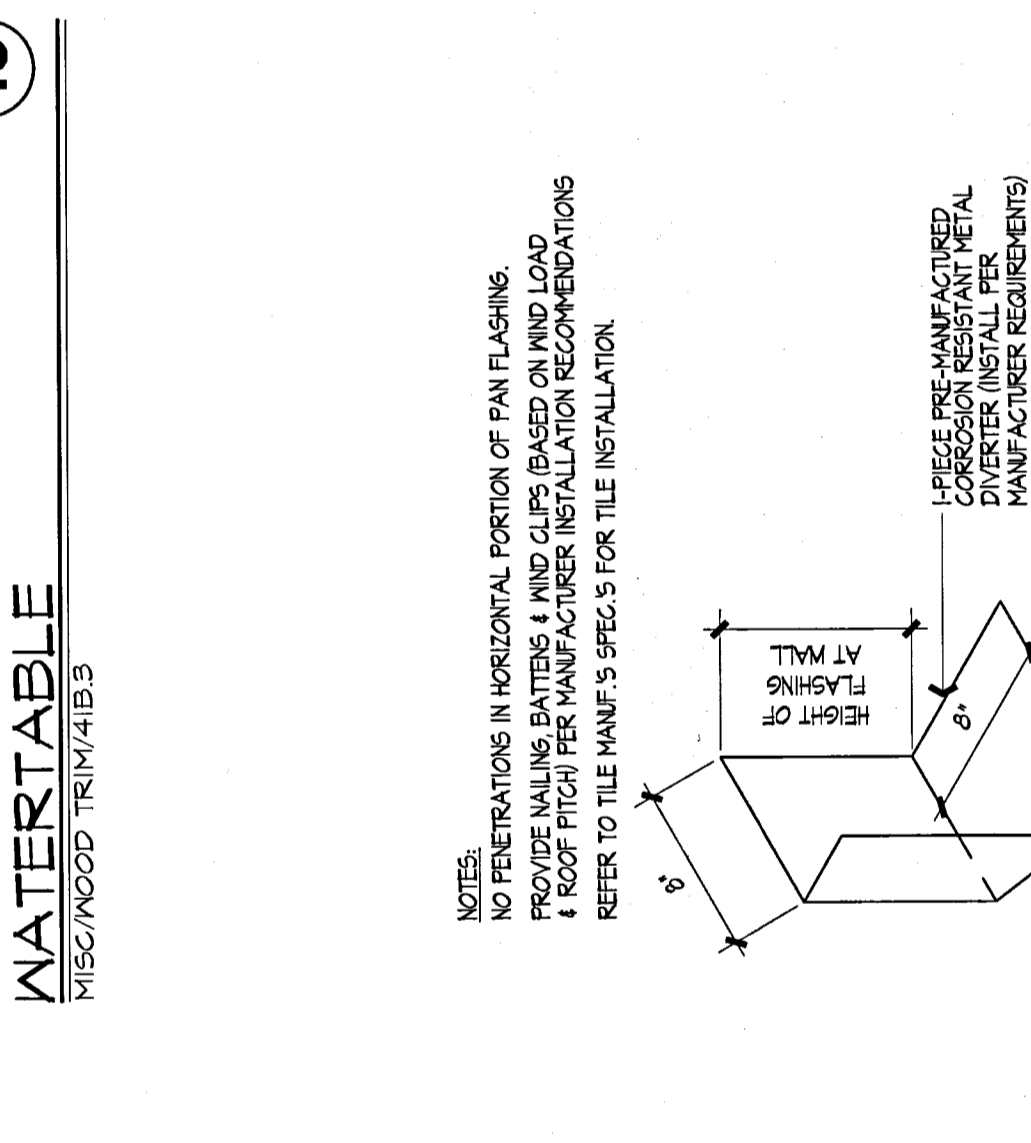
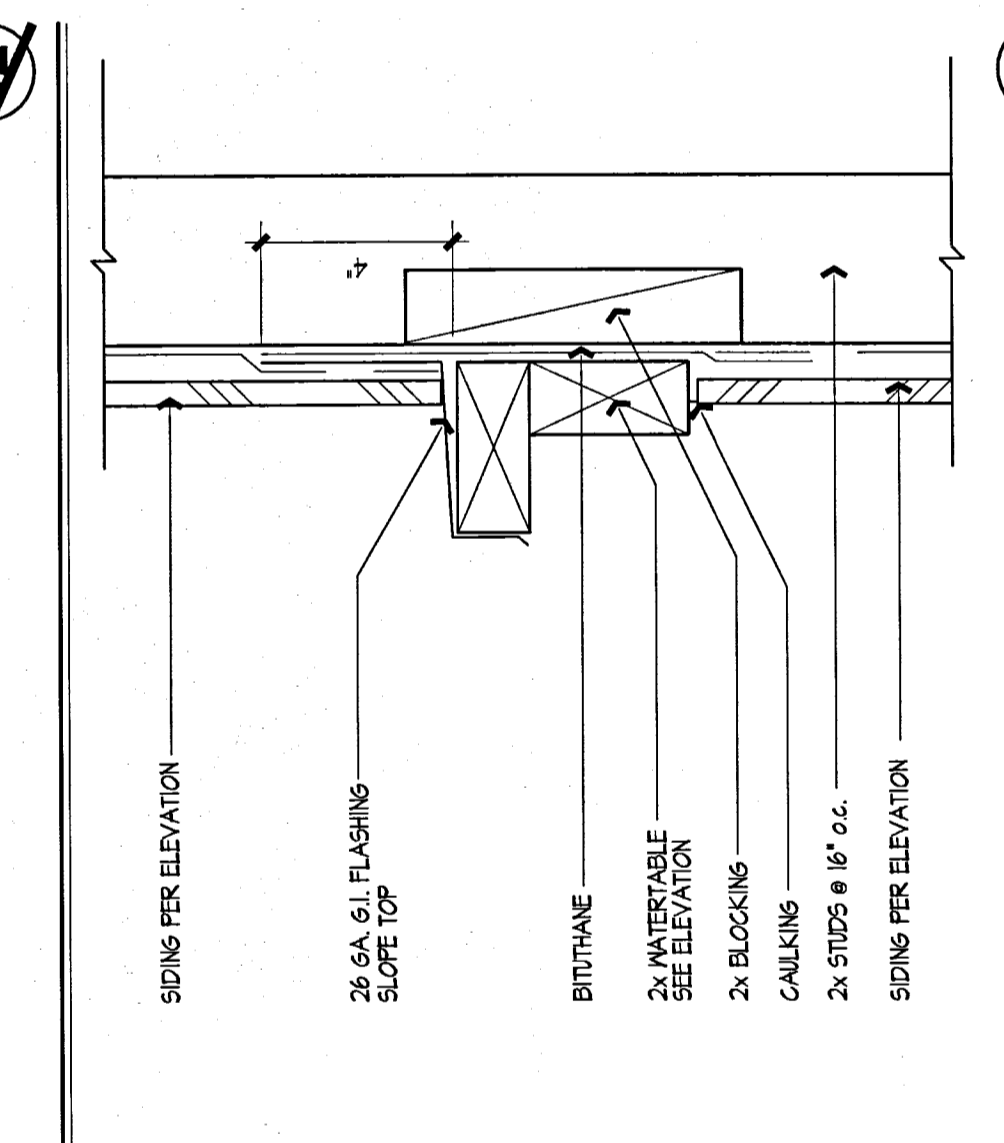
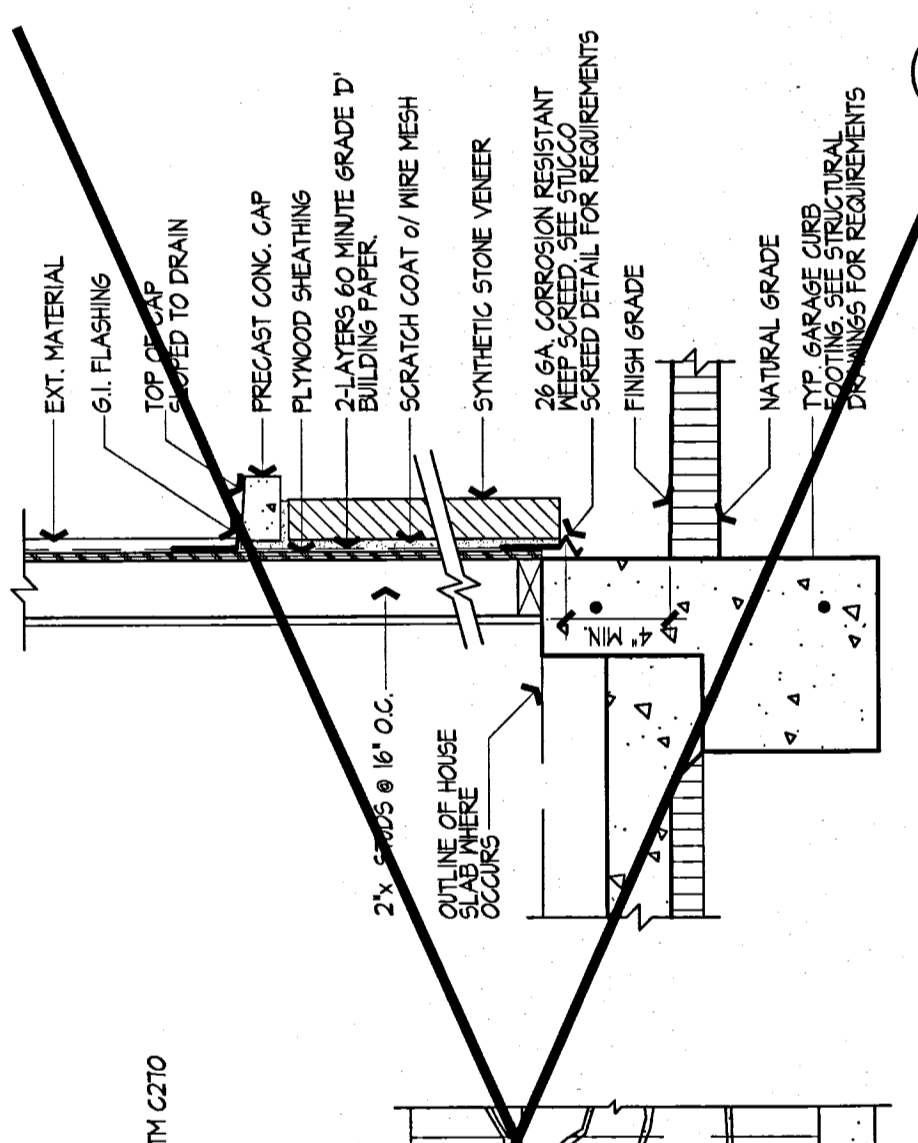
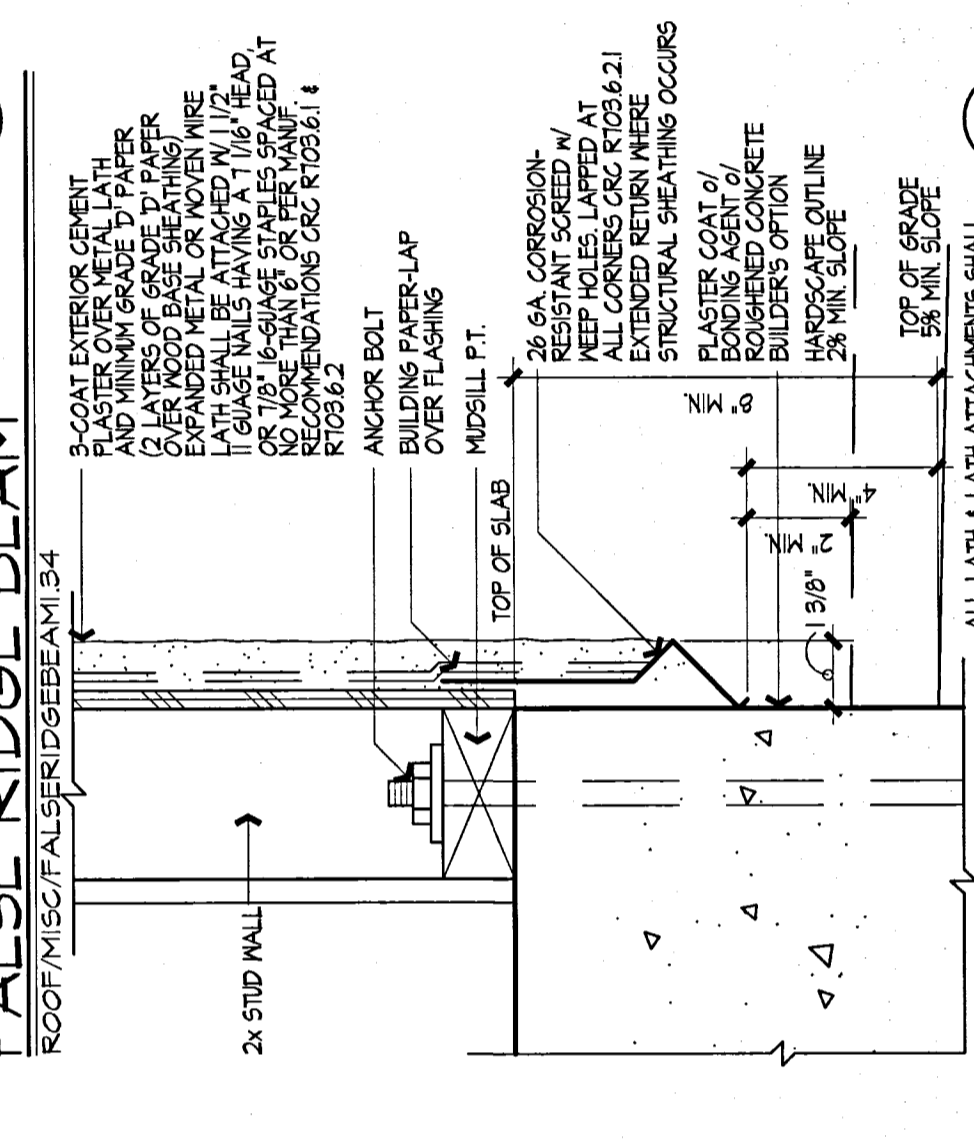
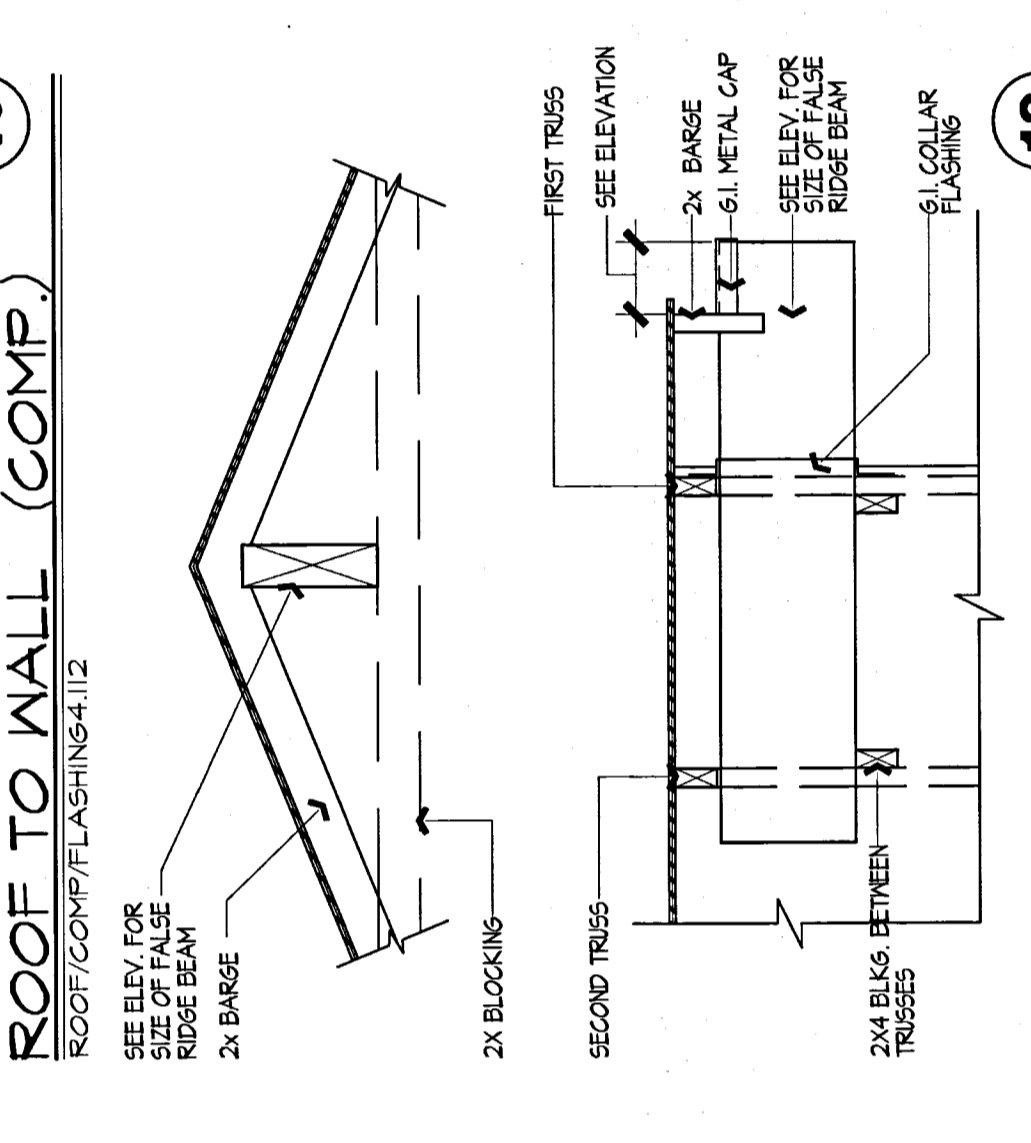
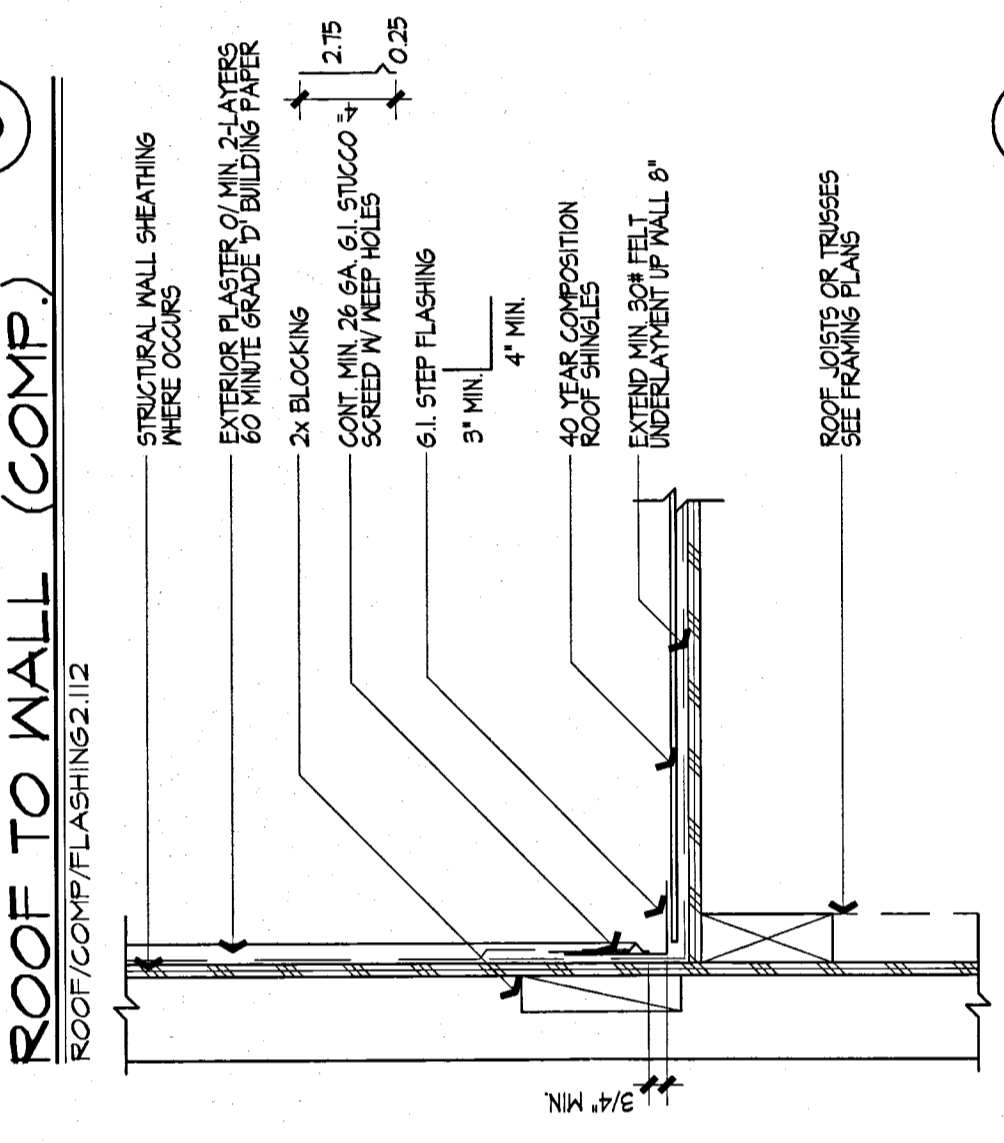
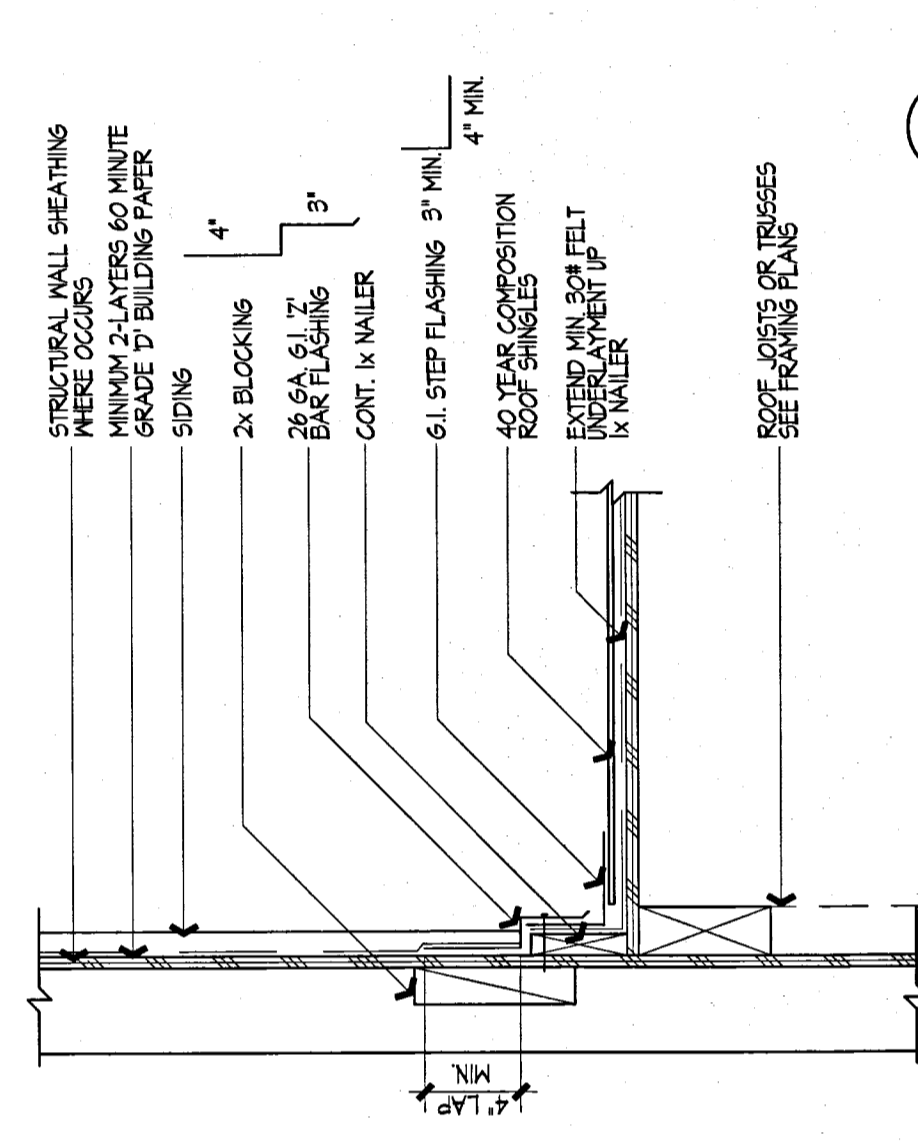
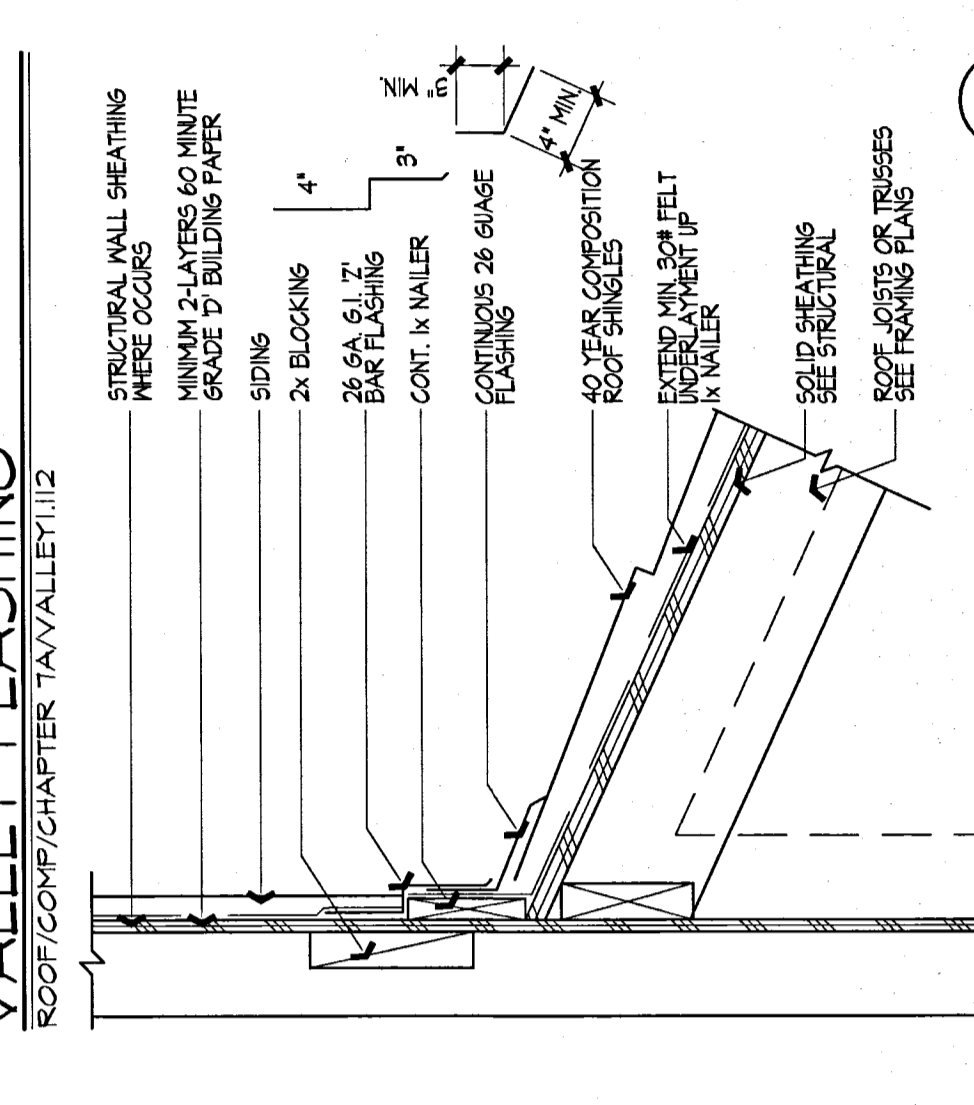
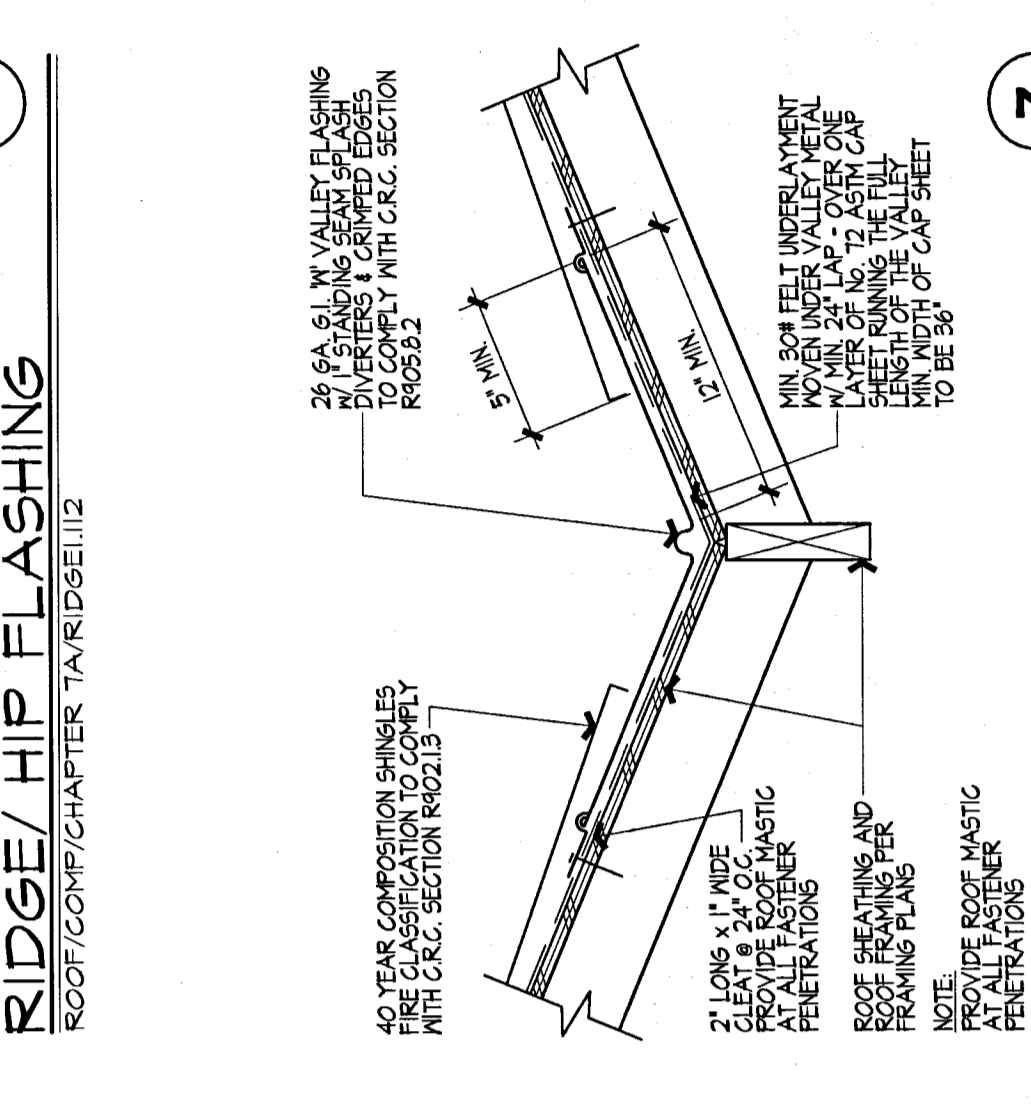
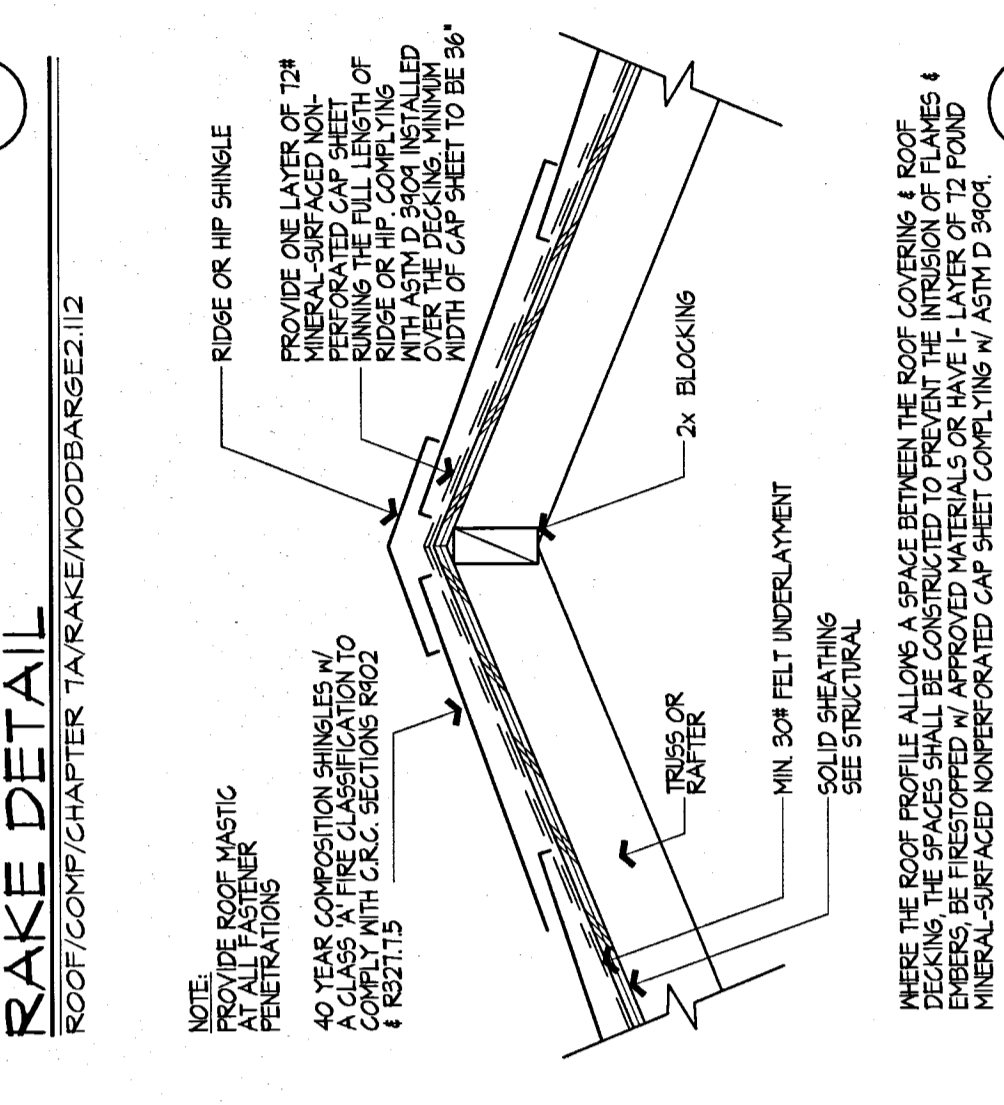
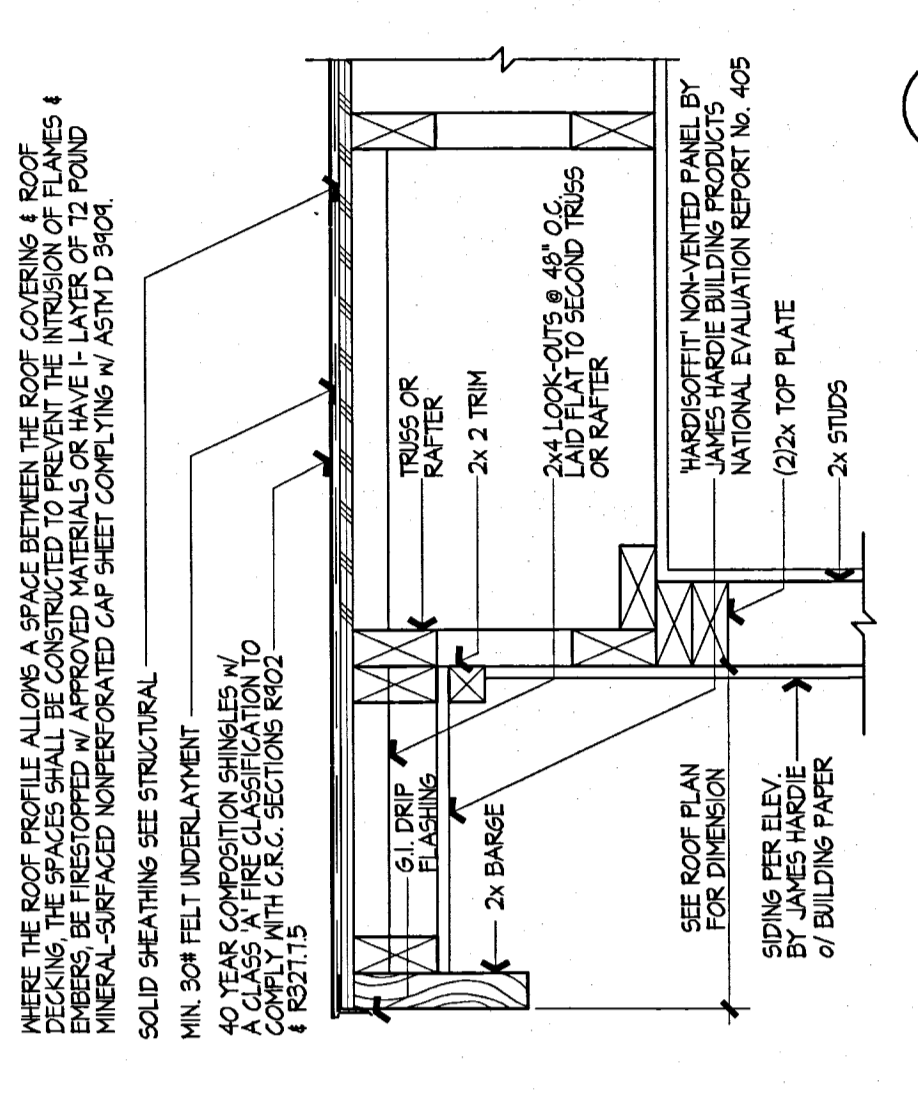
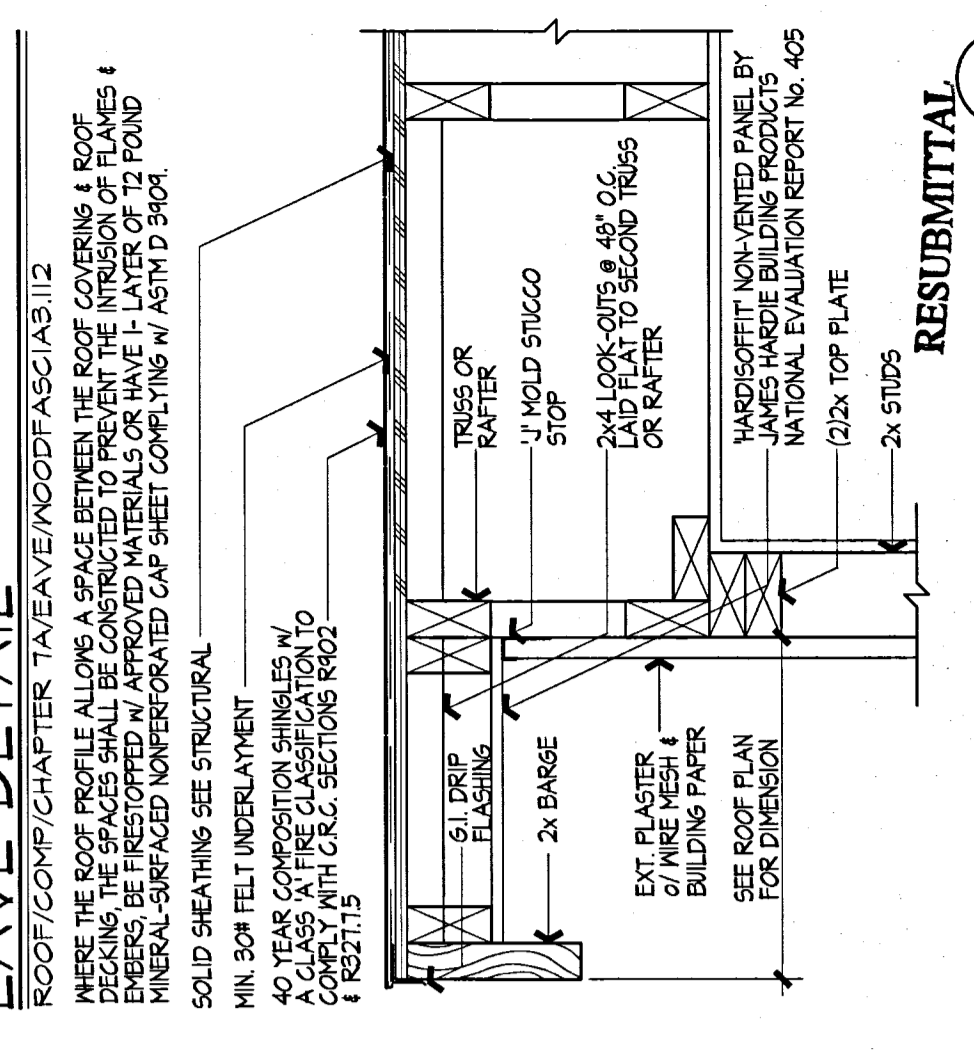
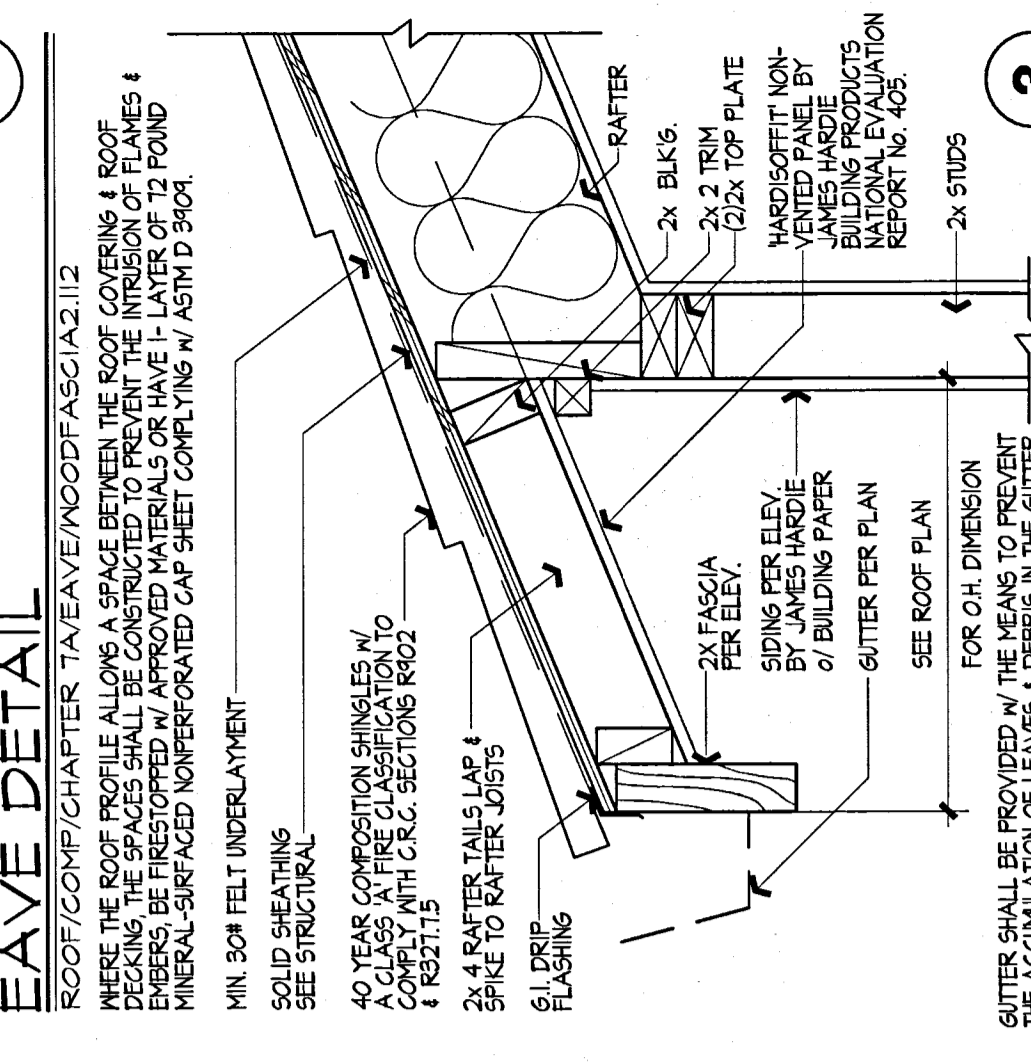
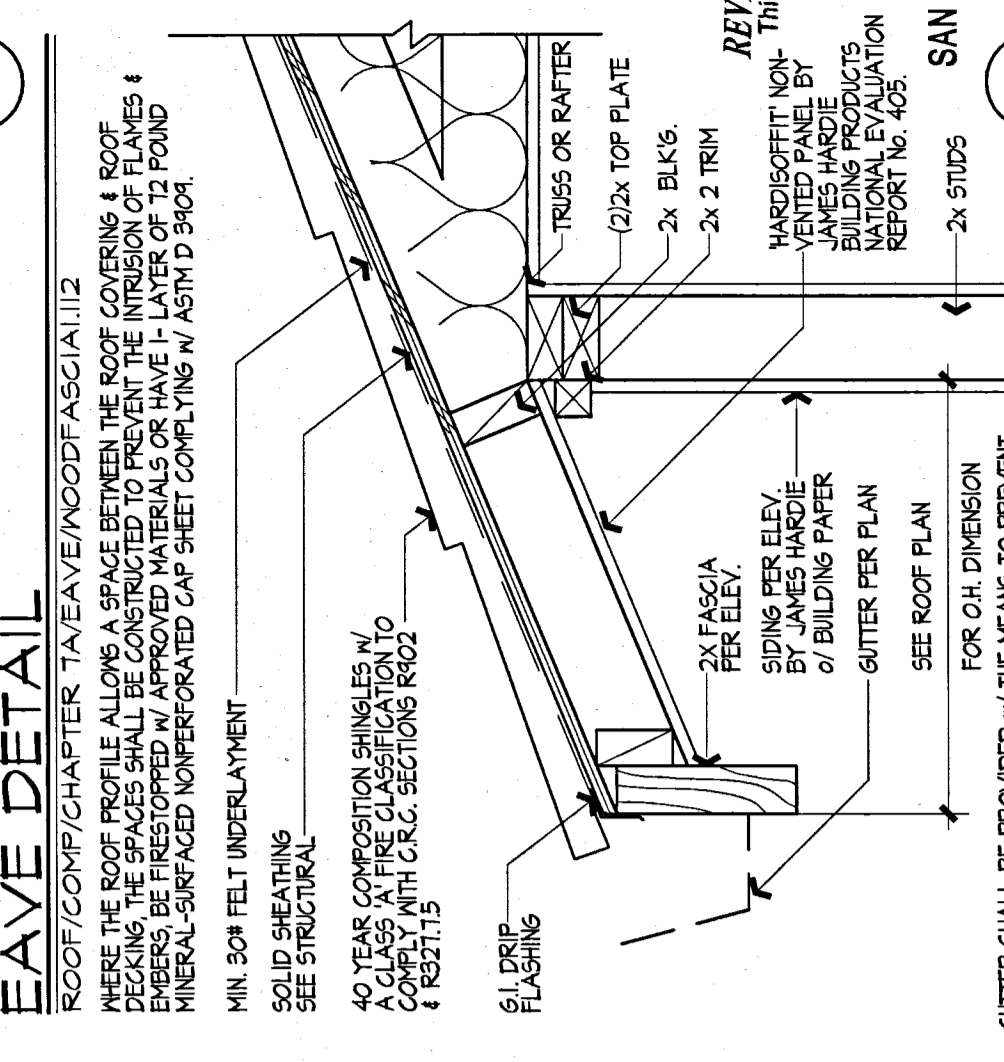
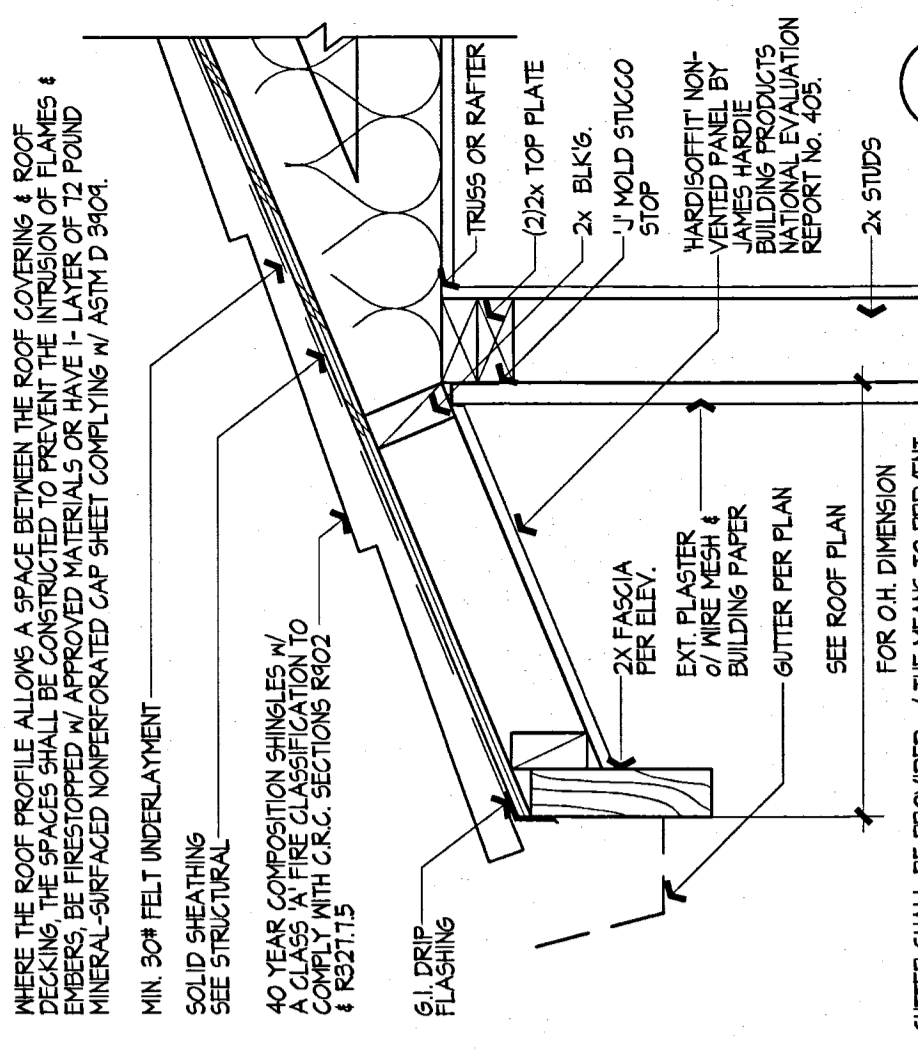
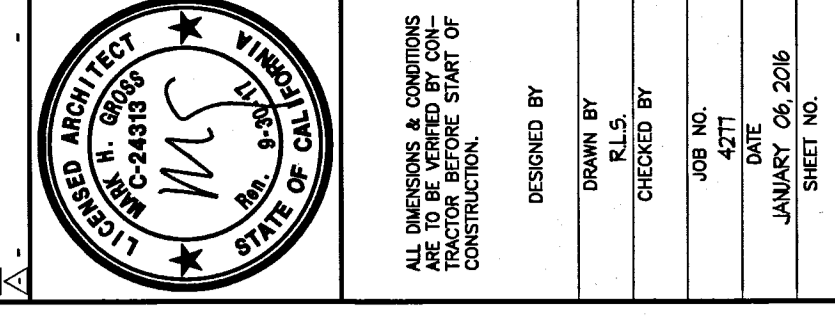
- NOTES:**
1. ALL AREAS SPECIFIED IN 2003 IBC SHALL BE USED. ALL UNITS SHALL BE LISTED AND APPROVED BY THE LOCAL AUTHORITY.
 2. ALL SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 3. ALL OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 4. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 5. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 6. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 7. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 8. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 9. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).
 10. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE CALIFORNIA ELECTRICAL CODE (CEC).

LEGEND

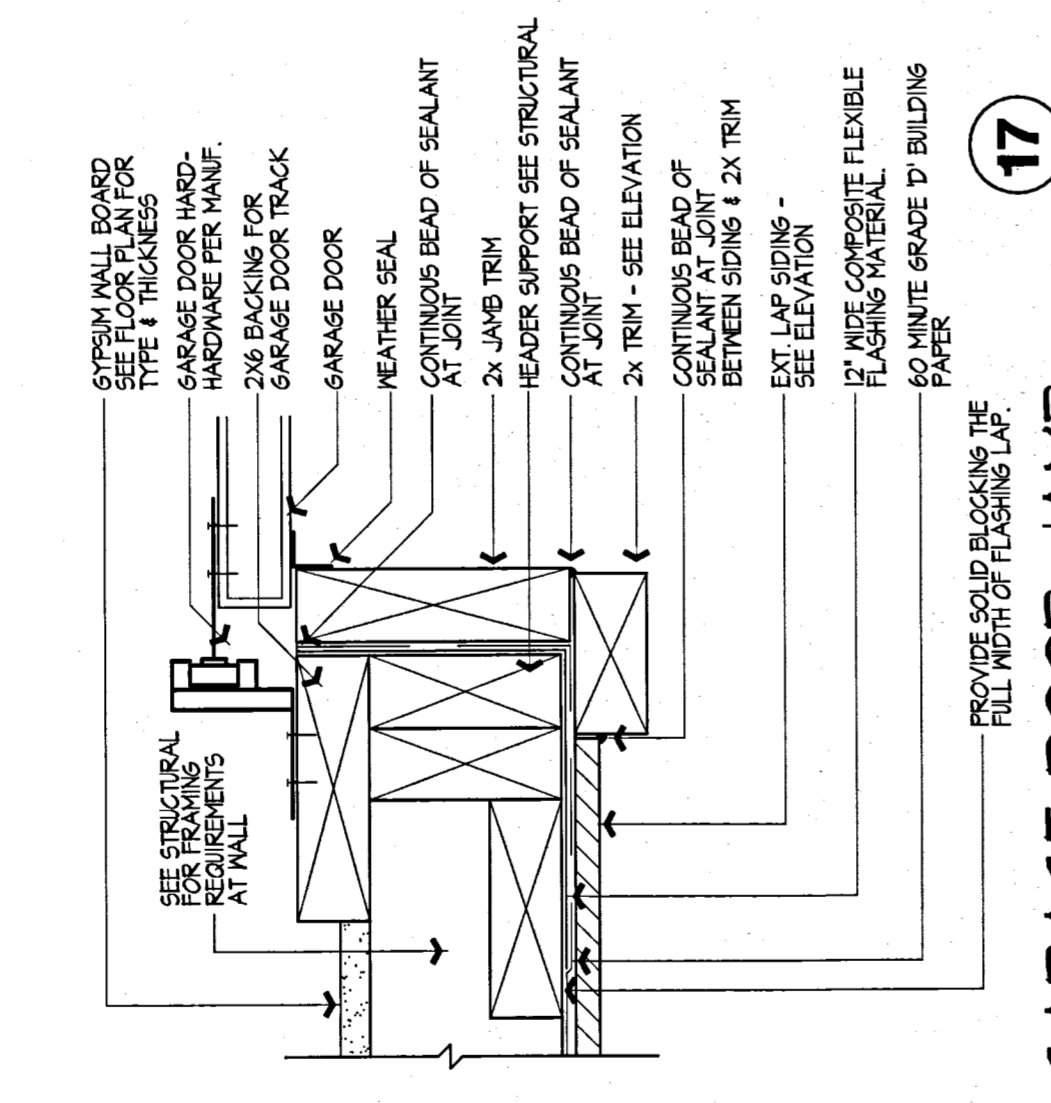
- DOOR BELL PUSH BUTTON
- TYCABLE OUTLET
- PHONE JACK
- HOSE BIBB
- COLD WATER
- FUEL GAS
- THERMOSTAT
- INTERMEDIATE EXHAUST FAN 50 CFM/HR OR LESS
- CONTINUOUS VENTILATION EXHAUST FAN 50 CFM/HR OR LESS
- DEATH OUTLET TO BE PROTECTED BY AN INFLAMMABLE MATERIAL (CEC, ARTICLE 404.1)
- 1/2" NOTched Outlet to be protected by an Inflammable Material (CEC, ARTICLE 404.1)
- GROUND FAULT PROTECTED OUTLET
- NON-RECYCLED OUTLET
- CEILING MOUNTED LIGHT
- RECYCLED MATERIAL LIGHT
- RECESSED FLUORESCENT DOWNLIGHT NON-INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- RECESSED FLUORESCENT DOWNLIGHT INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- 4"x4" SINGLE LIGHT, CEILING MOUNTED FLUORESCENT LIGHT
- FLUORESCENT WALL LIGHT
- NON-INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- RECESSED FLUORESCENT DOWNLIGHT NON-INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- RECESSED FLUORESCENT DOWNLIGHT INTRINSICALLY SAFETY LISTED INACCIDENTAL FLUORESCENT LIGHT
- BACKLASH DETECTOR SHALL BE WITH A COULOMETER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE (CEC), ARTICLE 404.1
- 4" INCH FLUSH LIGHT
- 6" INCH FLUSH LIGHT
- 8" INCH FLUSH LIGHT
- 4" INCH EXHAUST LIGHT
- 6" INCH EXHAUST LIGHT
- 8" INCH EXHAUST LIGHT
- CEILING MOUNTED LIGHT
- RECYCLED MATERIAL LIGHT

RESUBMITTAL
FEB 16 2017

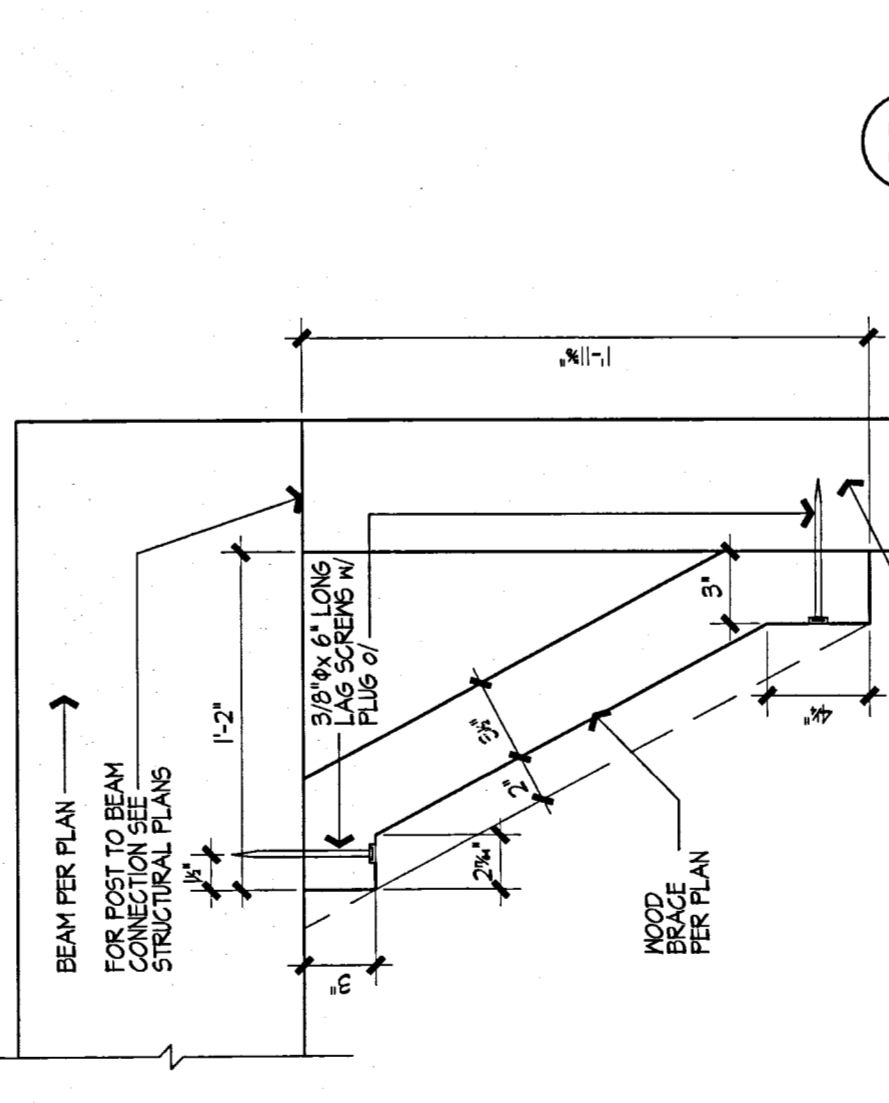
CONRO MEDIA, LLC
MILTI-MEDIA, LLC



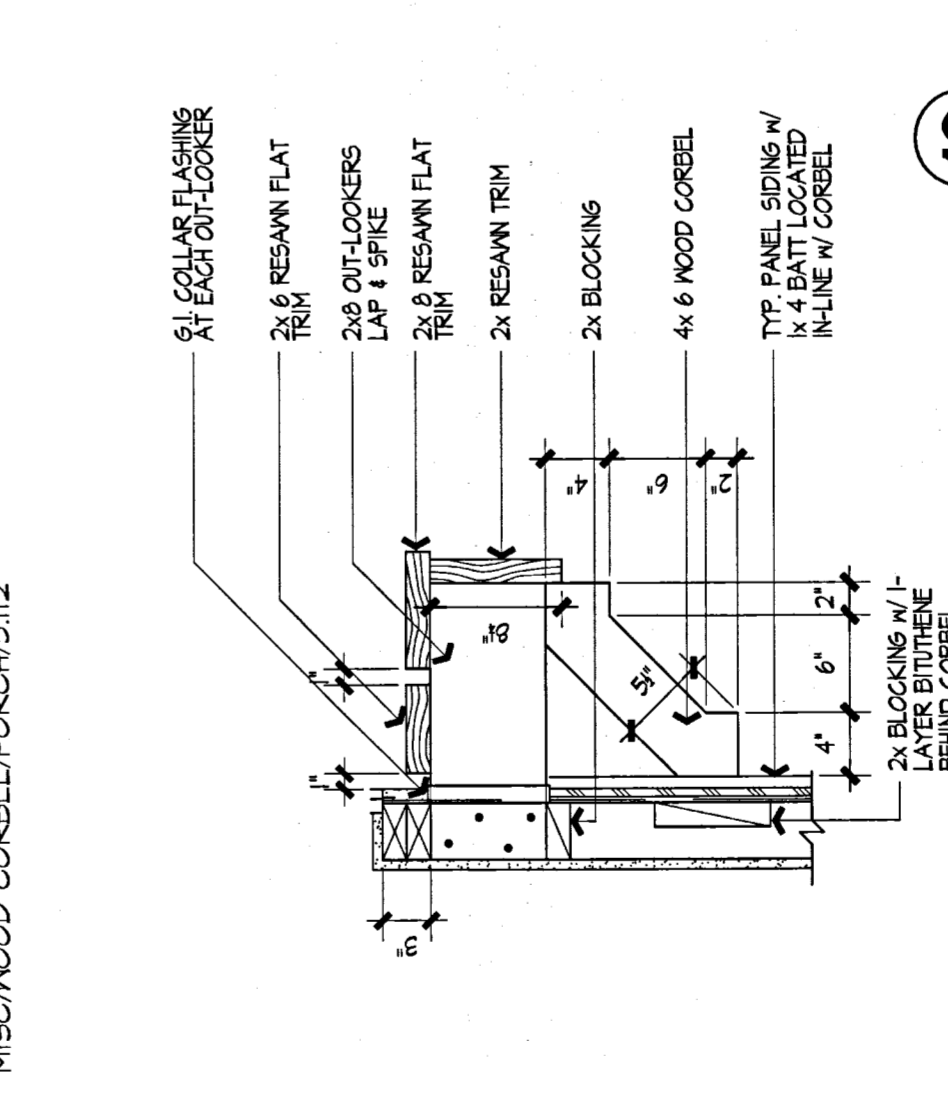
OMIT
 Note: Provide minimum 1/2 inch gap between the roof sheathing and the wall sheathing. Provide a minimum 1/2 inch gap between the roof sheathing and the wall sheathing. Provide a minimum 1/2 inch gap between the roof sheathing and the wall sheathing. Provide a minimum 1/2 inch gap between the roof sheathing and the wall sheathing.



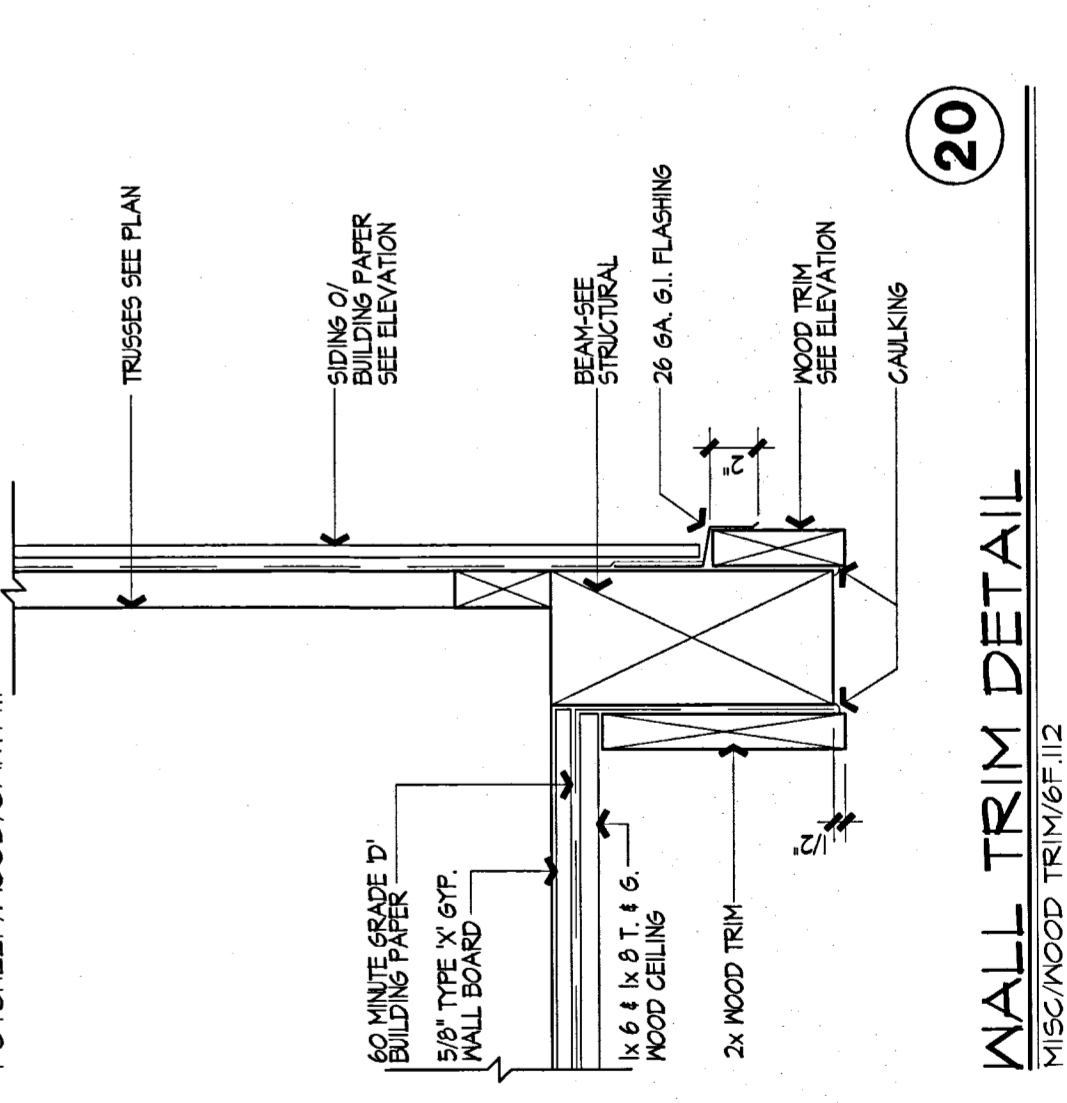
17
GARAGE DOOR JAMB
DOOR/JAMB/17.3



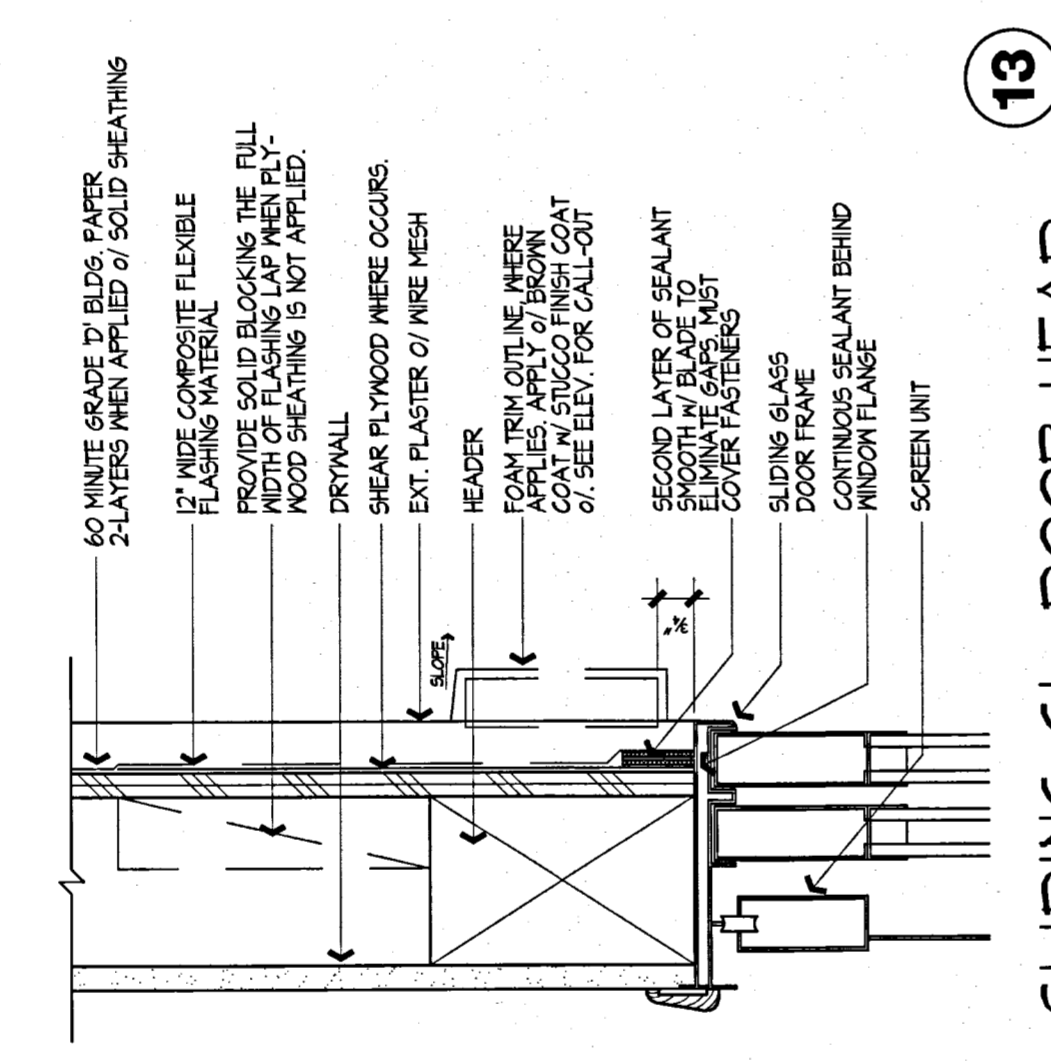
18
WOOD BRACE DETAIL
WES/WOOD CORNELL/POST/18.2



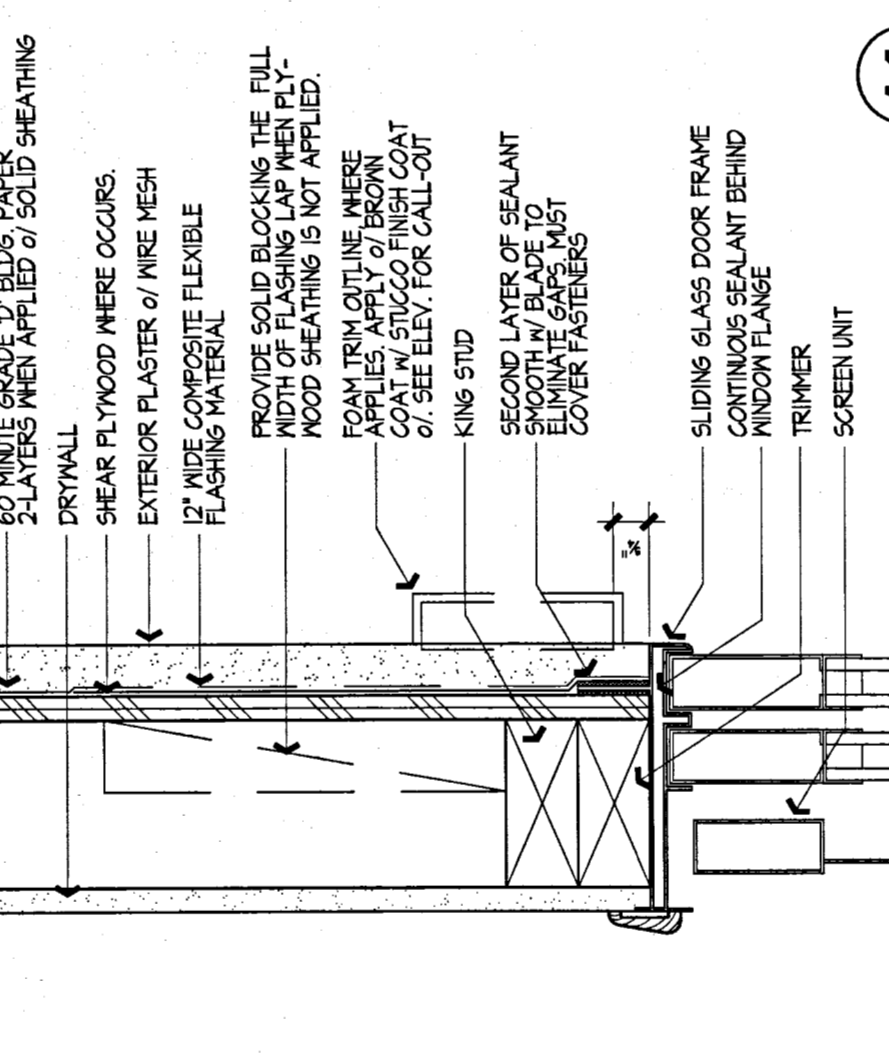
19
FOTSHELF DETAIL
FOTSHELF/WOOD/CANT/19.1



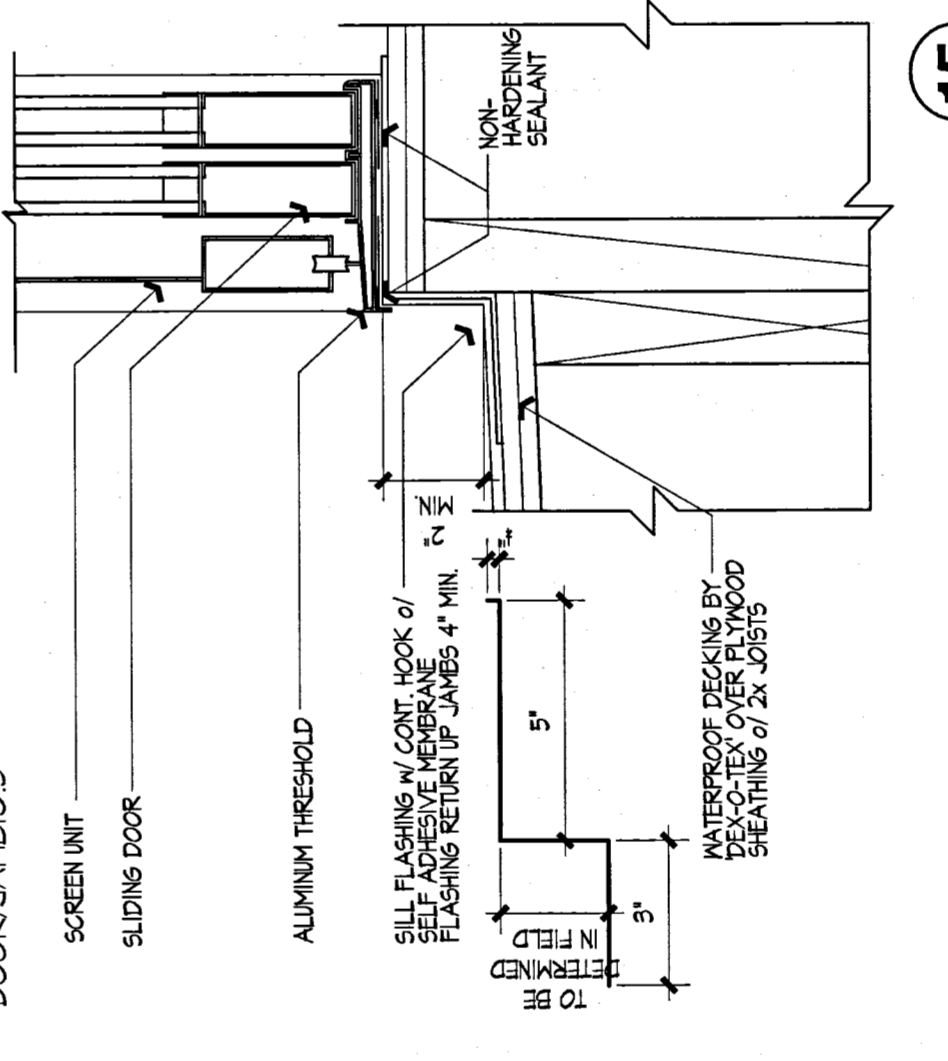
20
WALL TRIM DETAIL
WES/WOOD TRIM/20.12



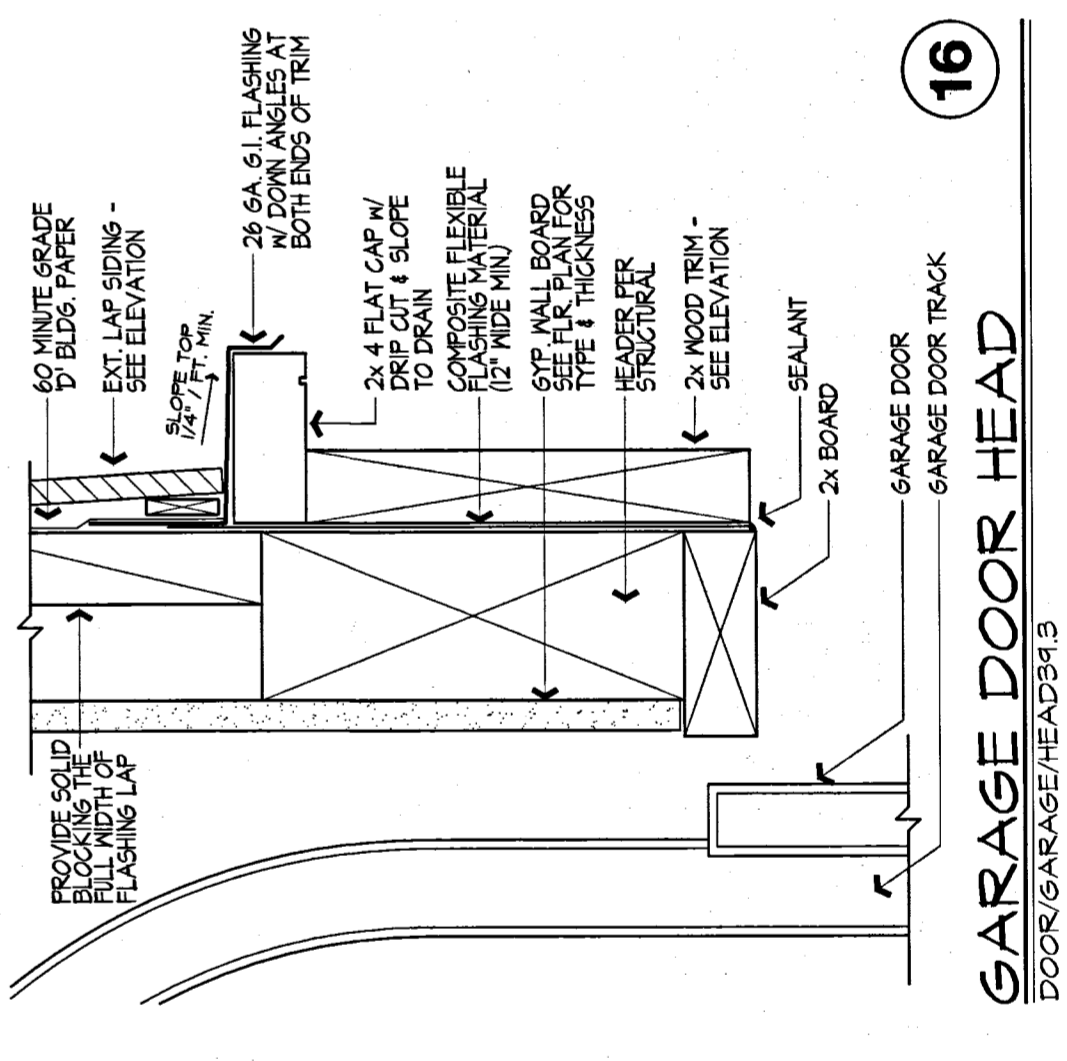
13
SLIDING GL. DOOR HEAD
DOOR/HEAD/13.3



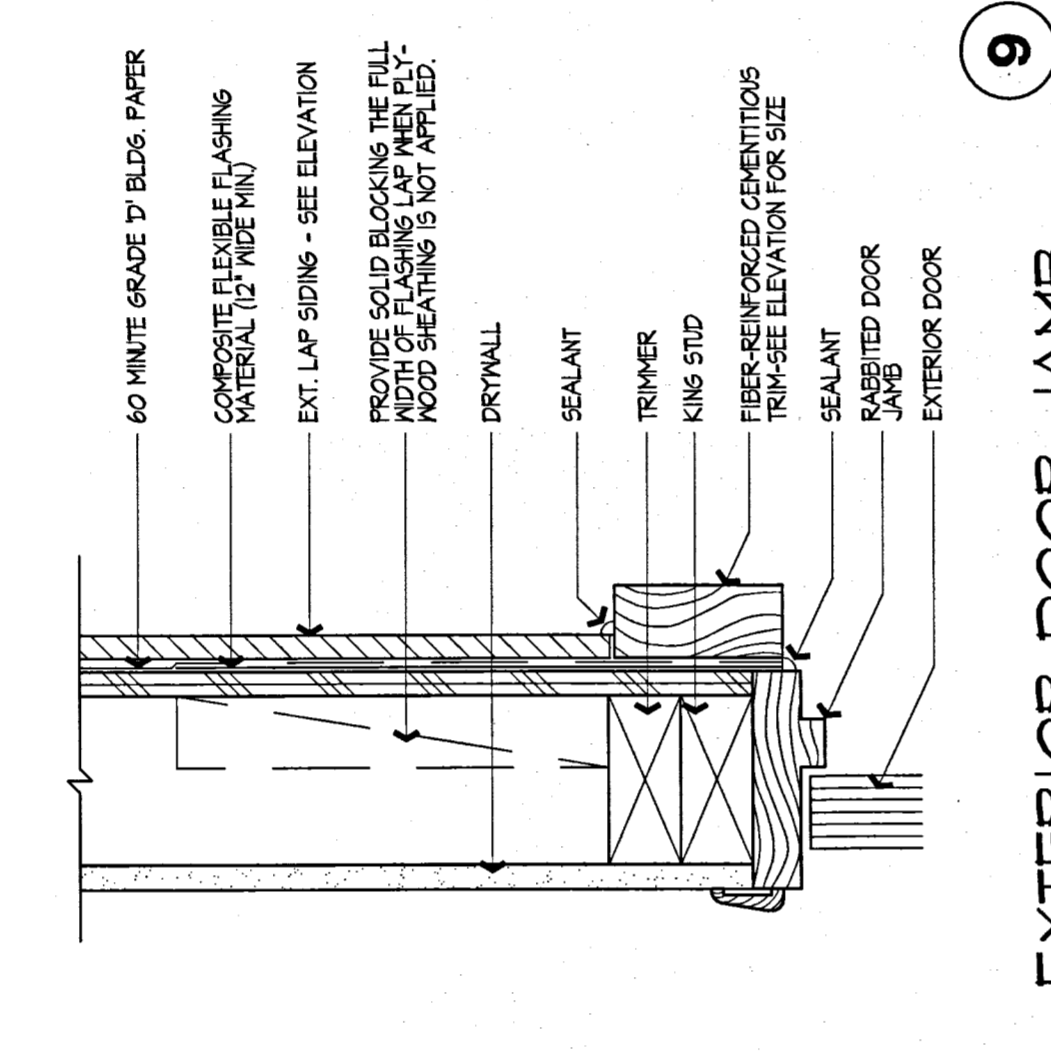
14
SLIDING GL. DOOR JAMB
DOOR/JAMB/14.3



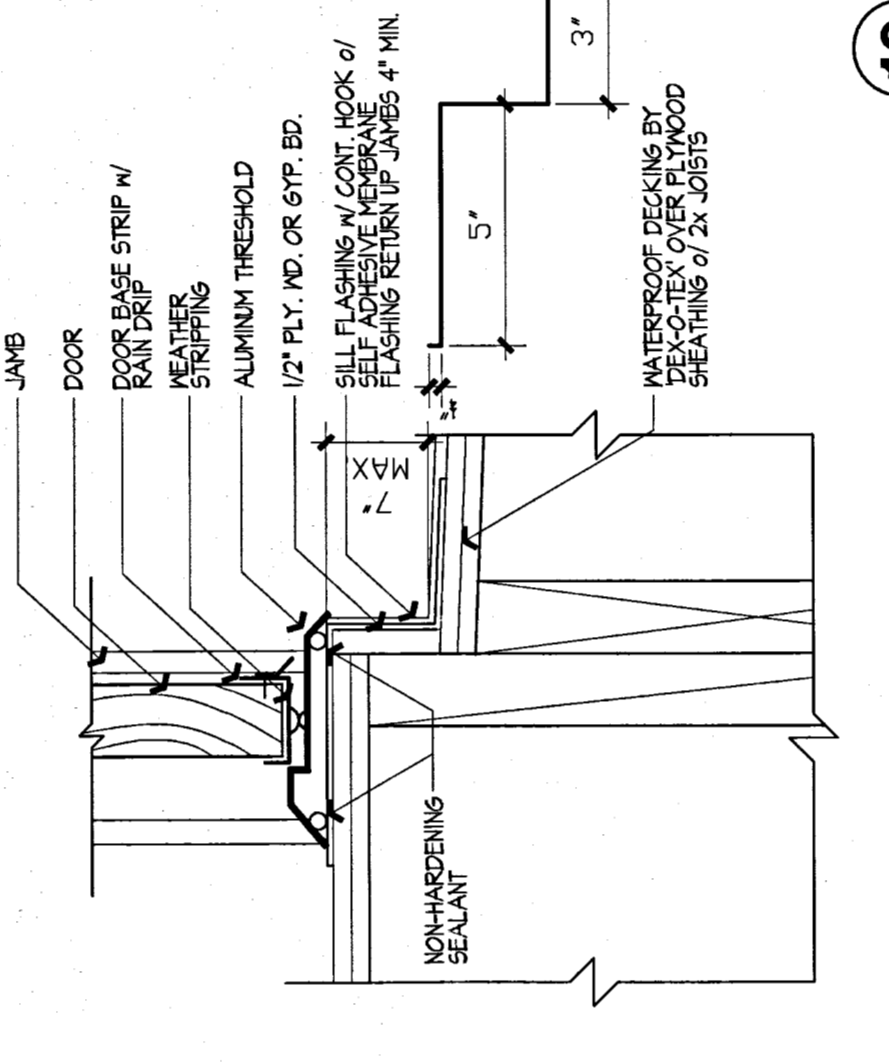
15
SLIDING DOOR THRESHOLD
DOOR/THRESHOLD/15.3



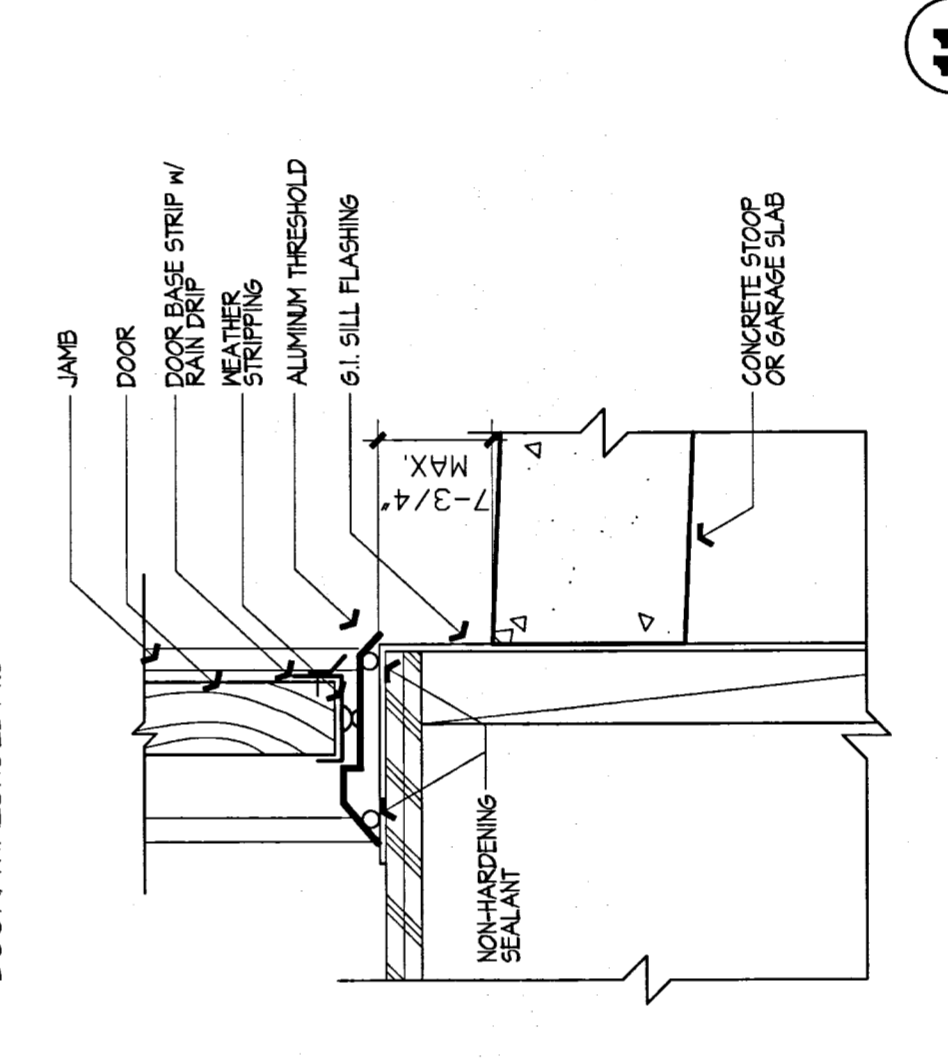
16
GARAGE DOOR HEAD
DOOR/GARAGE/HEAD/16.3



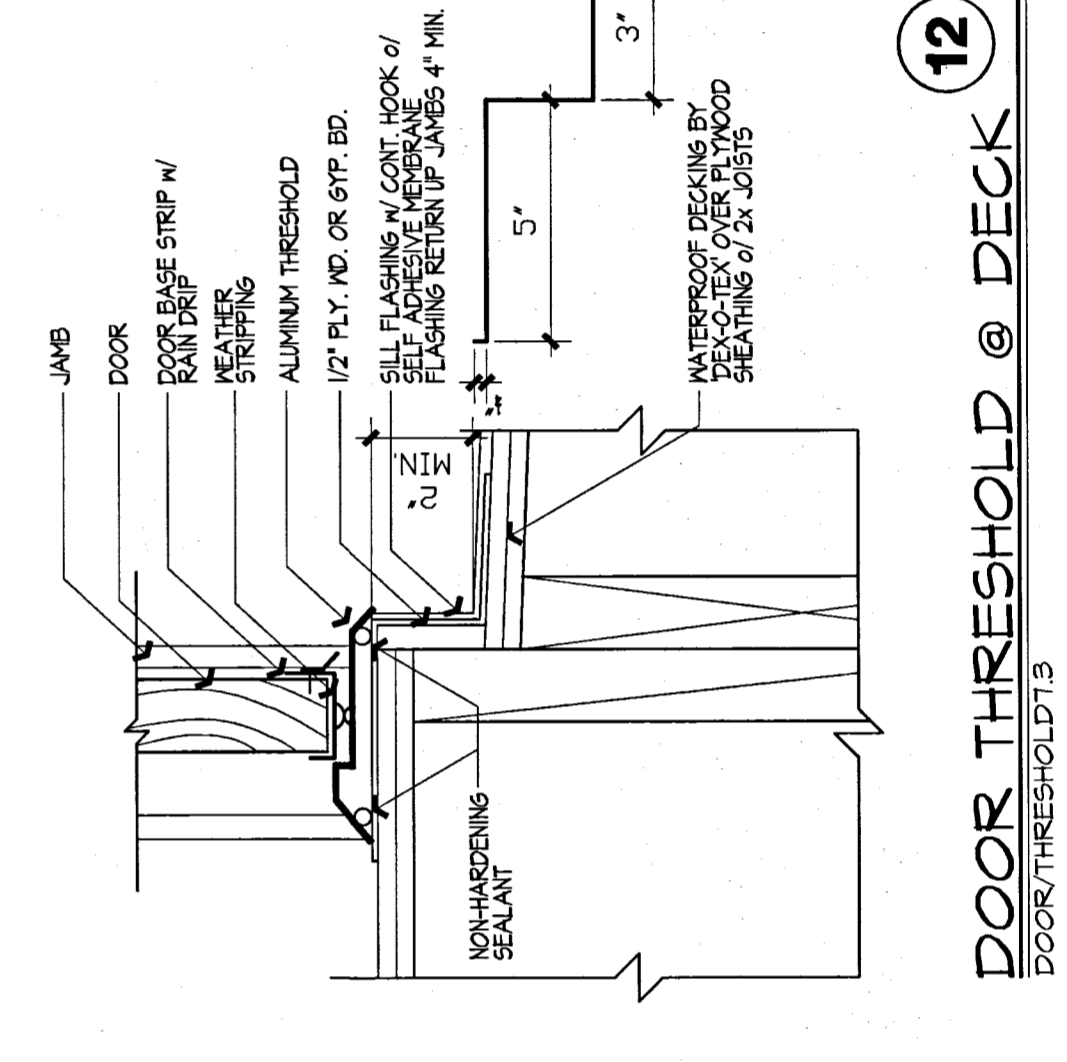
9
EXTERIOR DOOR JAMB
DOOR/JAMB/9.3



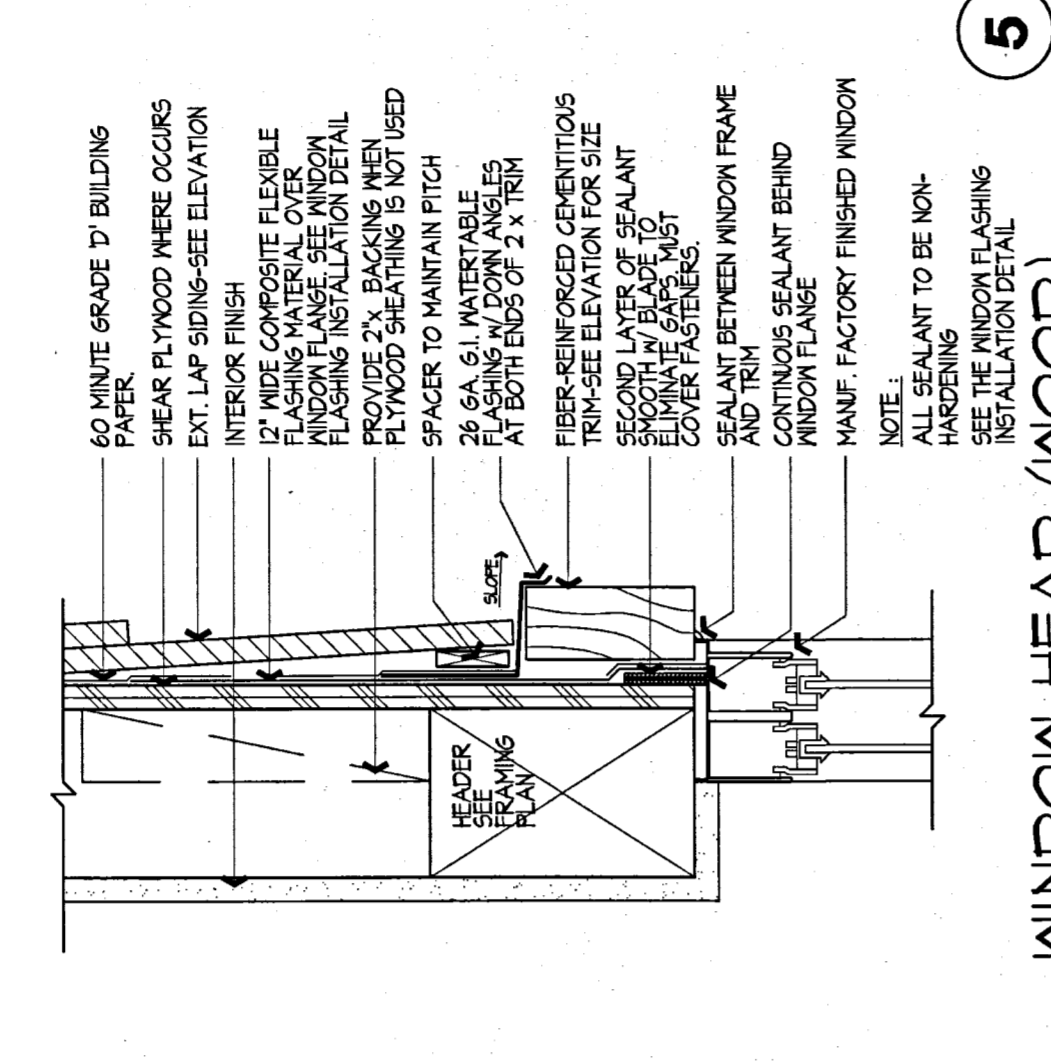
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EGRESS EXT. THRESHOLD
DOOR/THRESHOLD/10.3



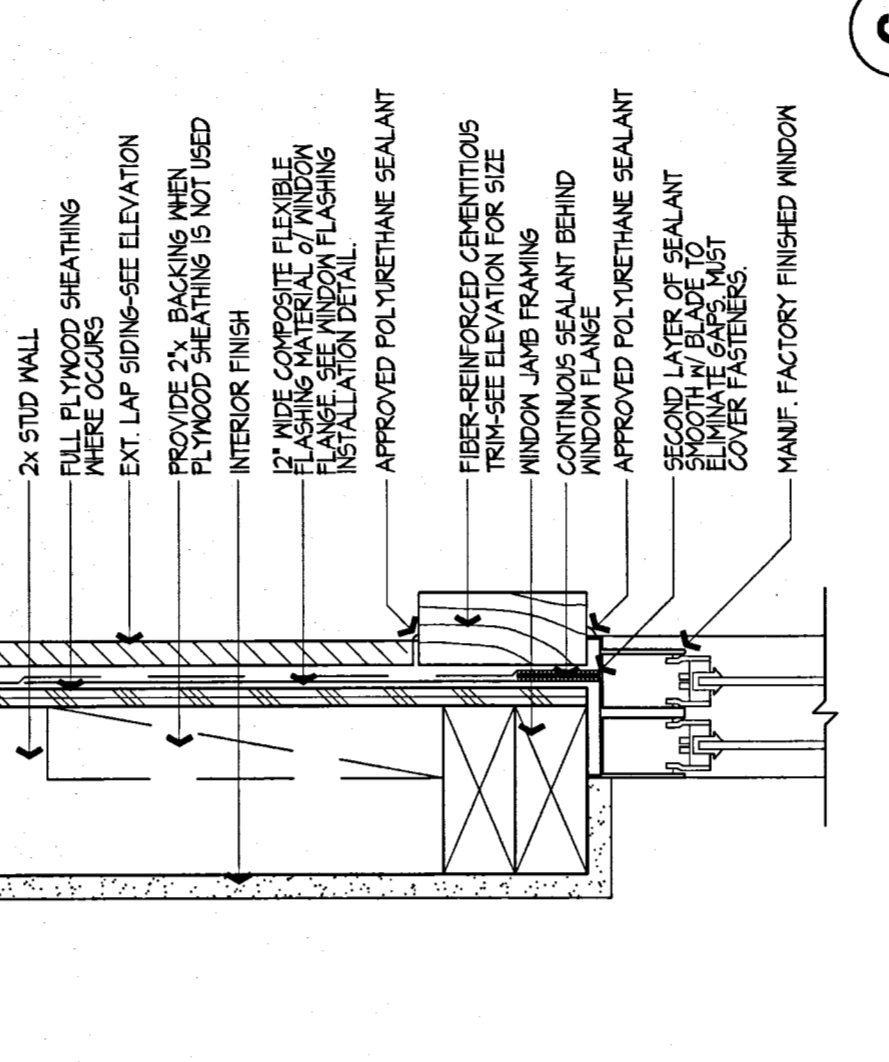
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EXTERIOR THRESHOLD
DOOR/THRESHOLD/11.3



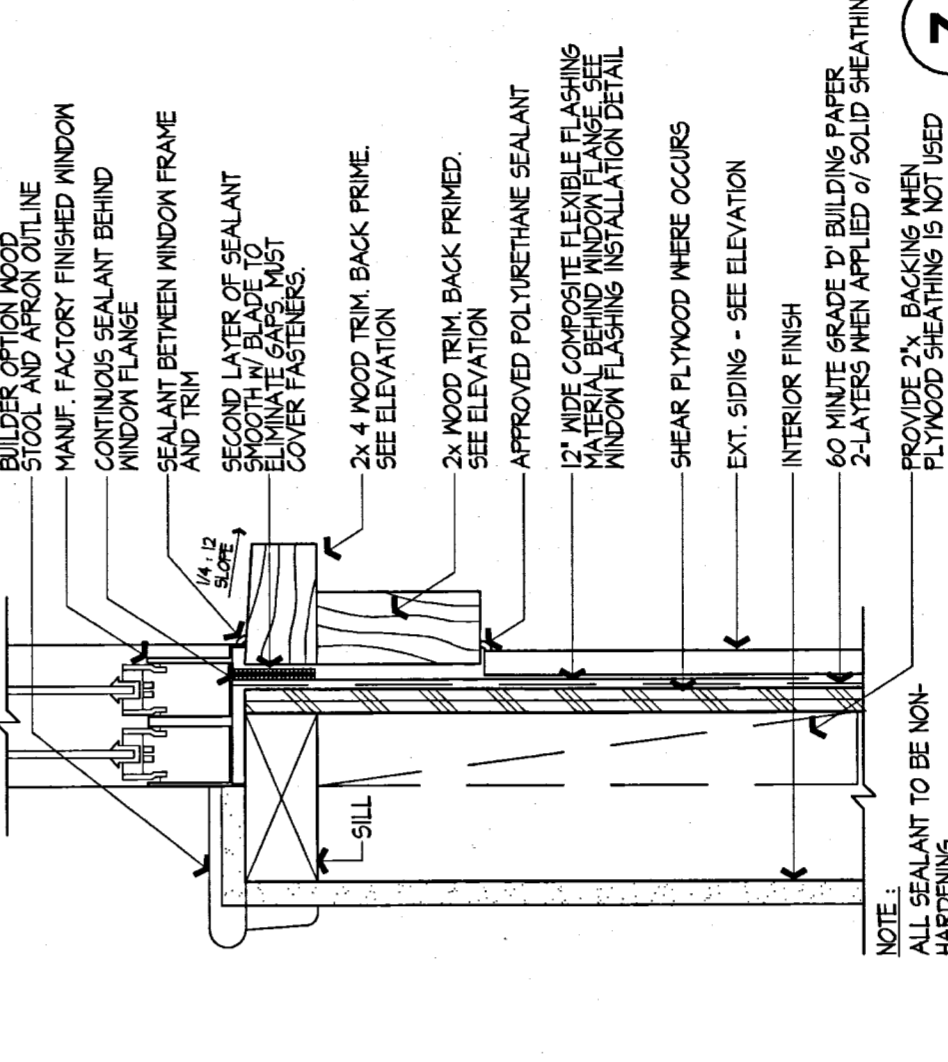
12
DOOR THRESHOLD @ DECK
DOOR/THRESHOLD/12.3



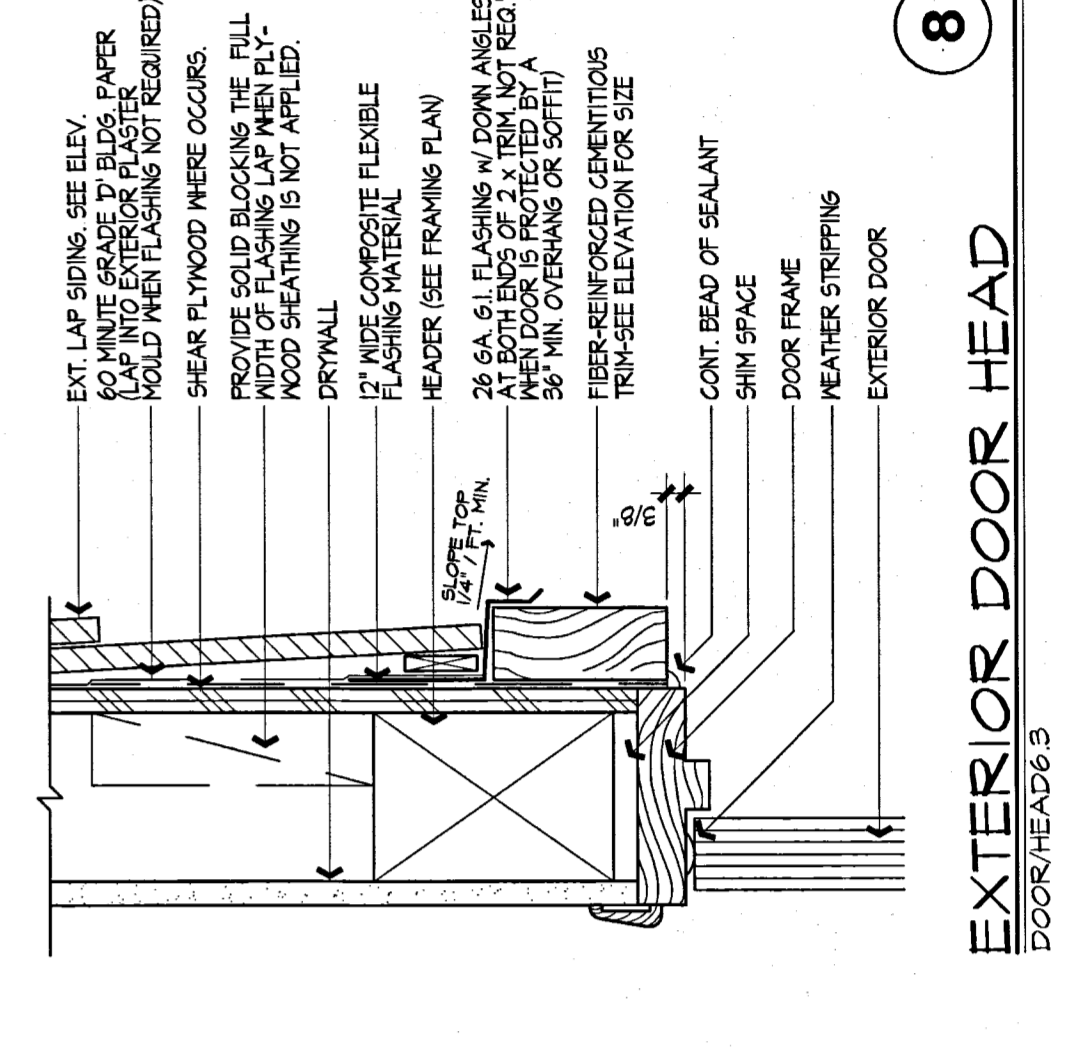
5
WINDOW HEAD (WOOD)
WINDOW/JAMB/5.3



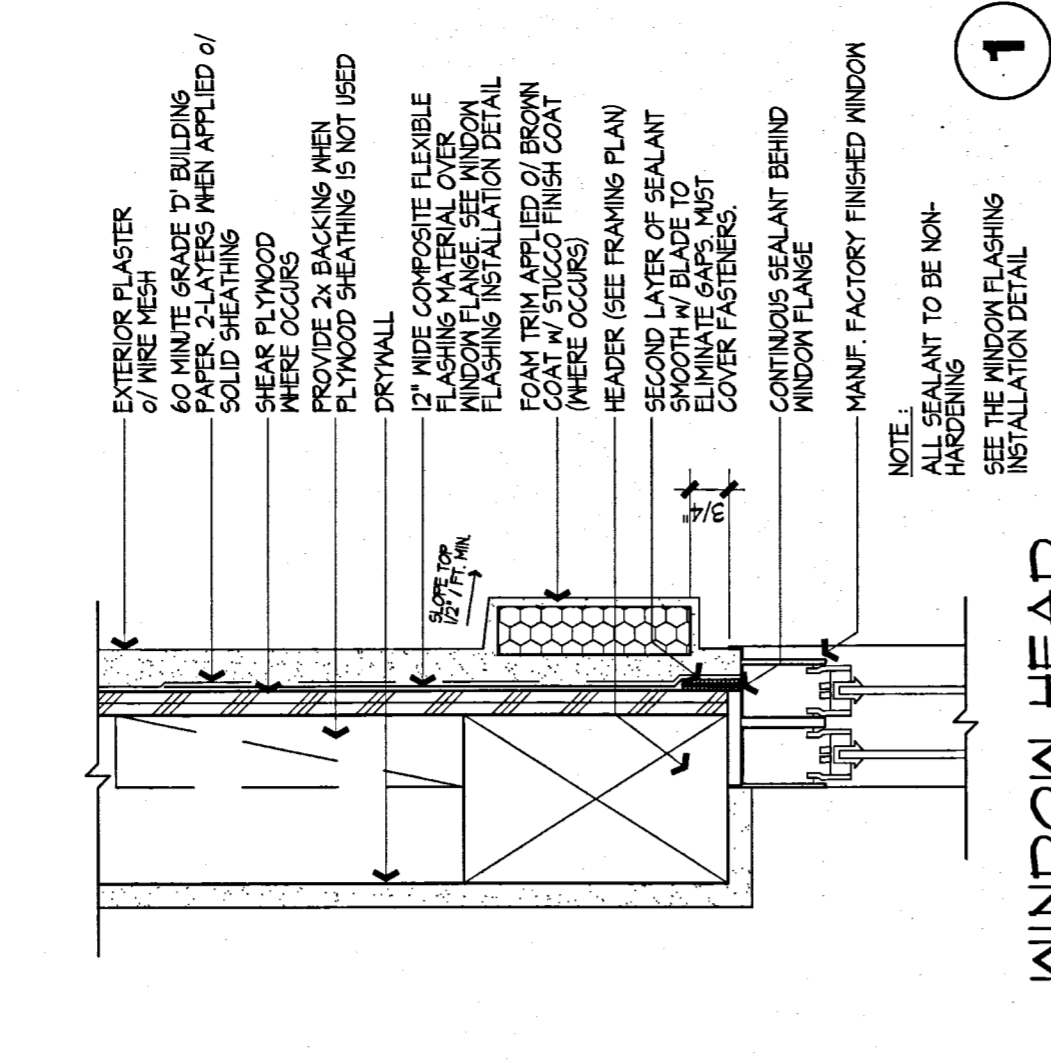
6
WINDOW JAMB (WOOD)
WINDOW/JAMB/6.3



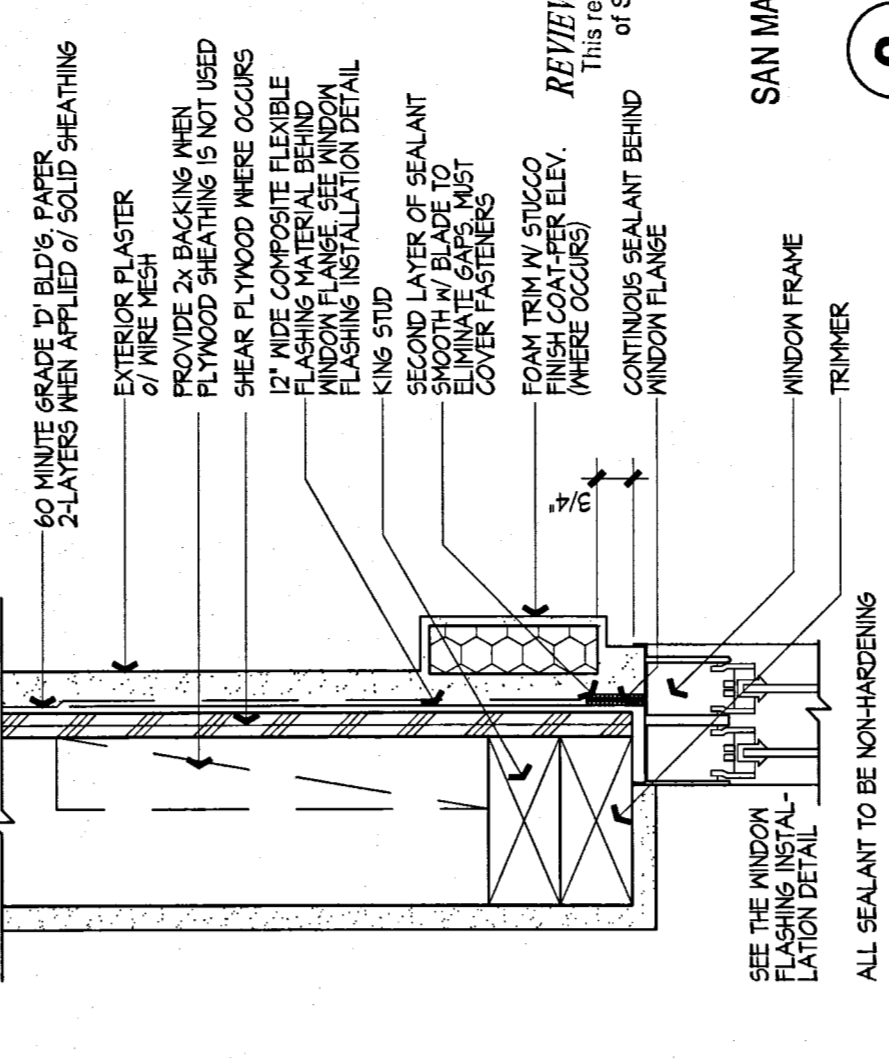
7
WINDOW SILL
WINDOW/SILL/7.3



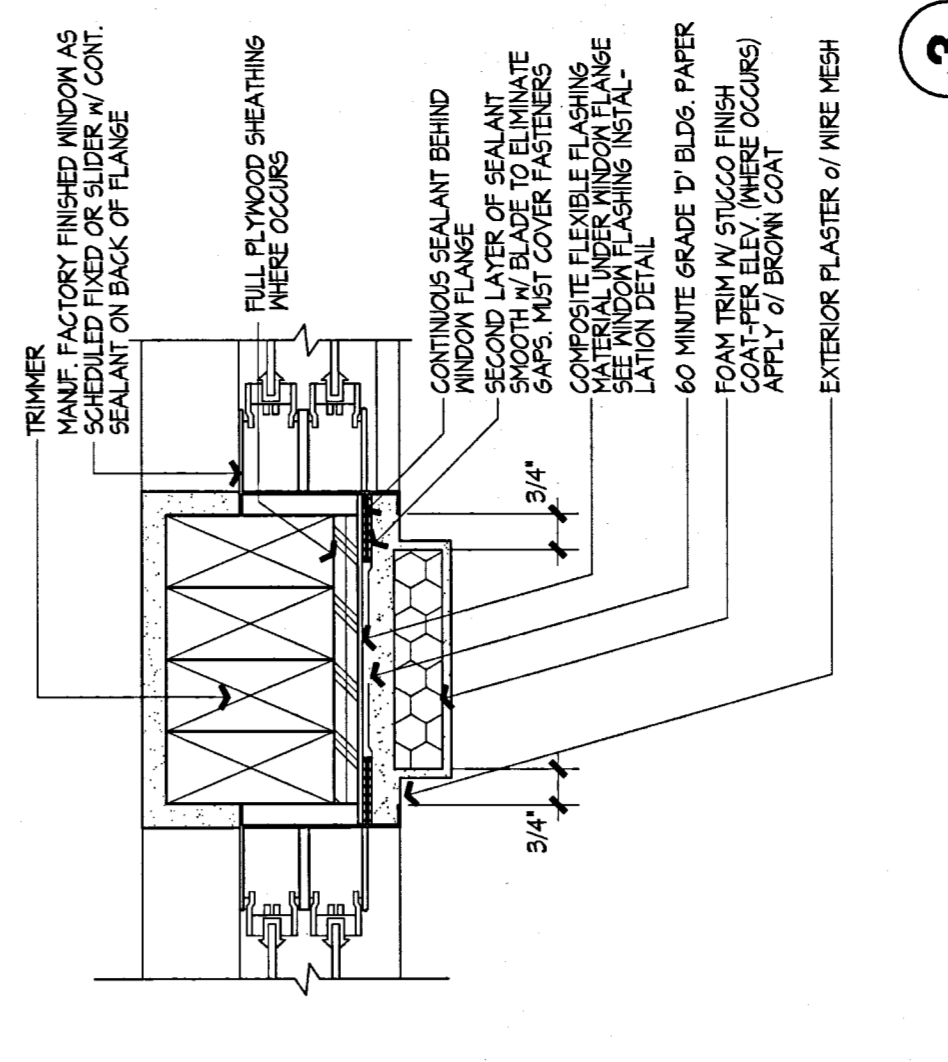
8
EXTERIOR DOOR HEAD
DOOR/HEAD/8.3



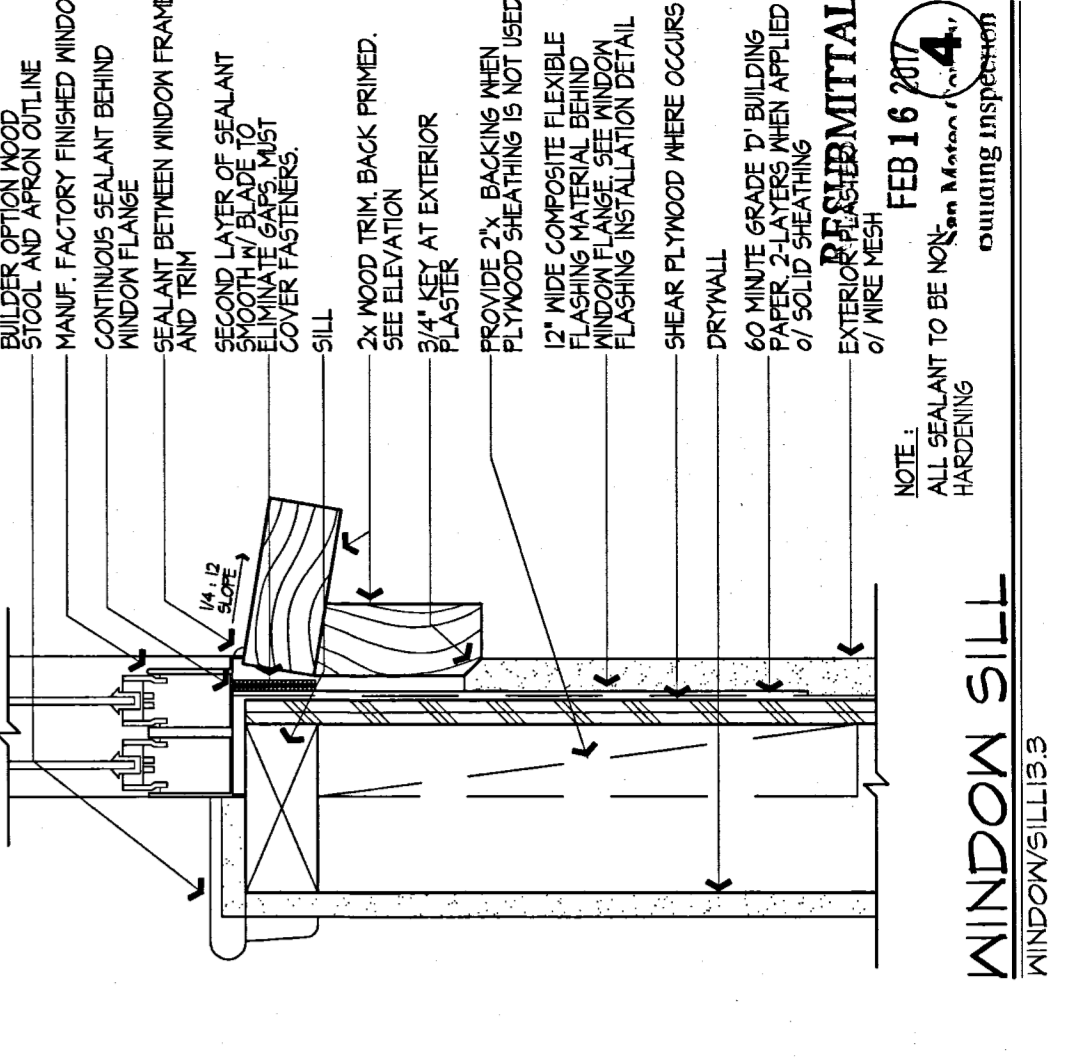
1
WINDOW HEAD
WINDOW/HEAD/1.3



2
WINDOW JAMB
WINDOW/JAMB/2.3



3
WINDOW JAMBS IN SERIES
WINDOW/JAMB/3.3



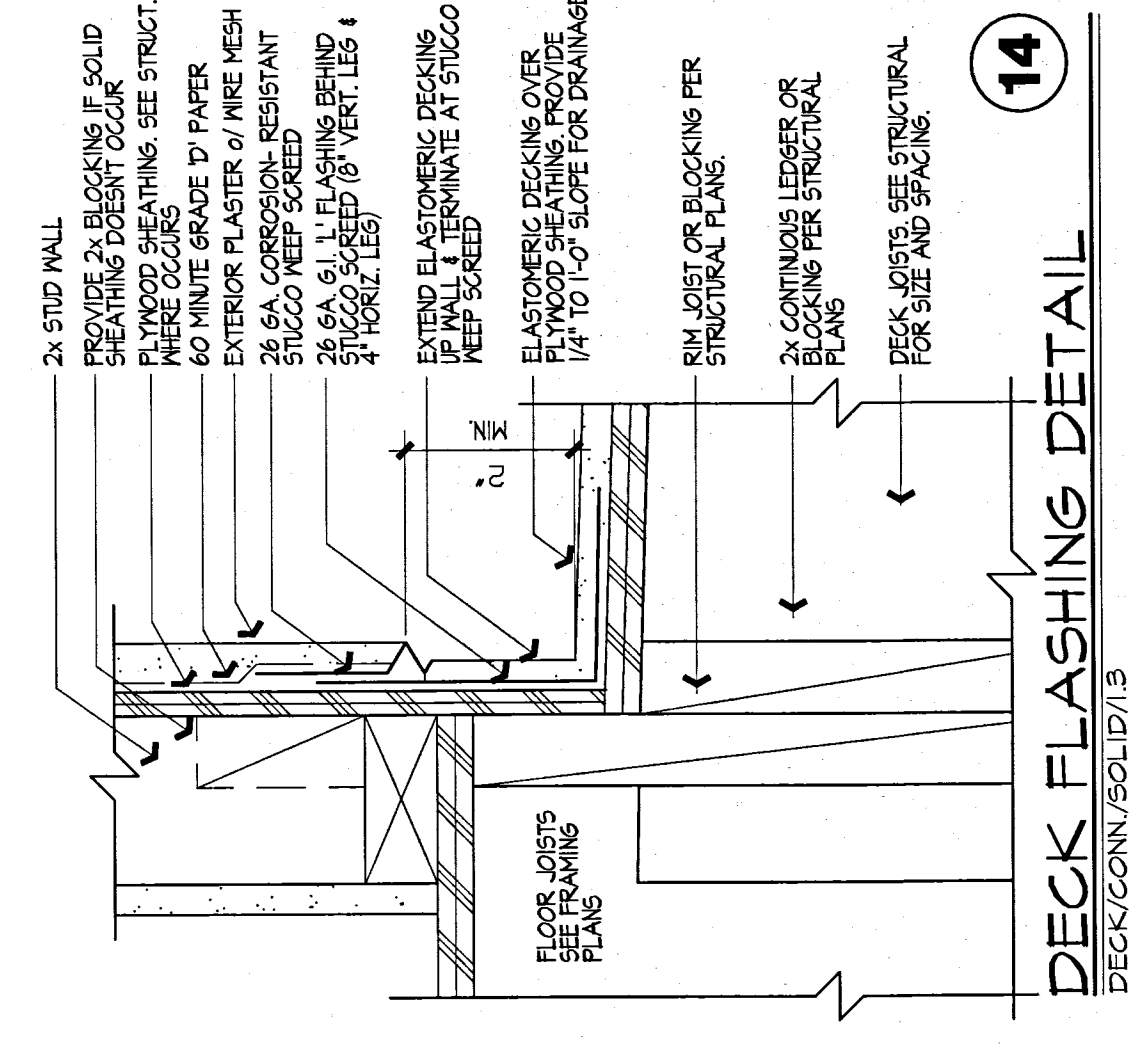
4
WINDOW SILL
WINDOW/SILL/4.3

Mark Gross & Associates, Inc.
Architects
1214 COBLENTH PLACE
SAN MATEO, CALIFORNIA 94401
(650) 397-3900 Fax (650) 397-7800
www.mga.com

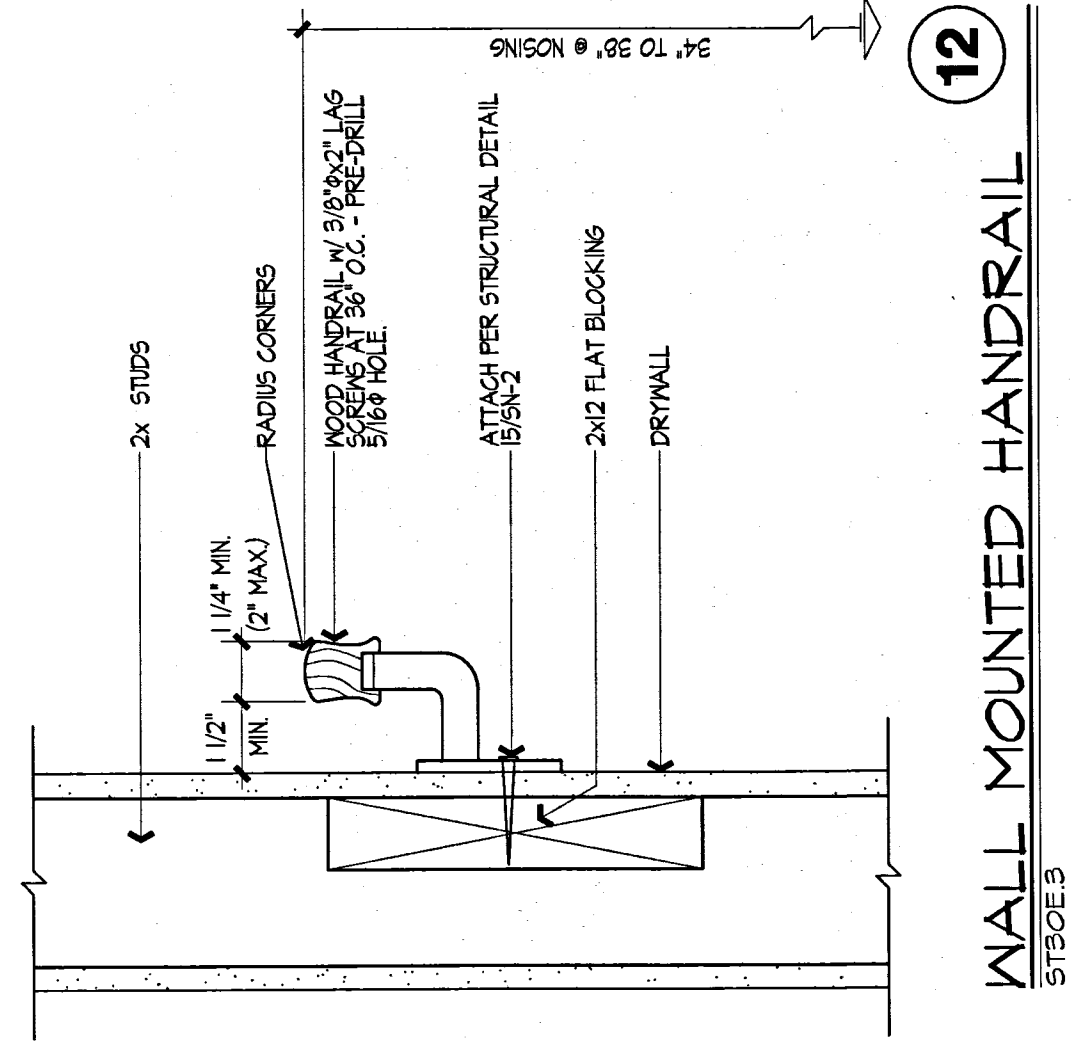
CONSTRUCTION DETAILS
NOV 13 2015
SAN MATEO CO. BLDG. INSP. DIV.
REVIEWED BY: [Signature]
DATE: 11/13/15
2124 COBLENTH PLACE
SAN MATEO, CALIFORNIA 94401
(650) 397-3900 FAX (650) 397-7800
www.mga.com

REVISIONS
NO. DESCRIPTION
DATE
1. 11/13/15

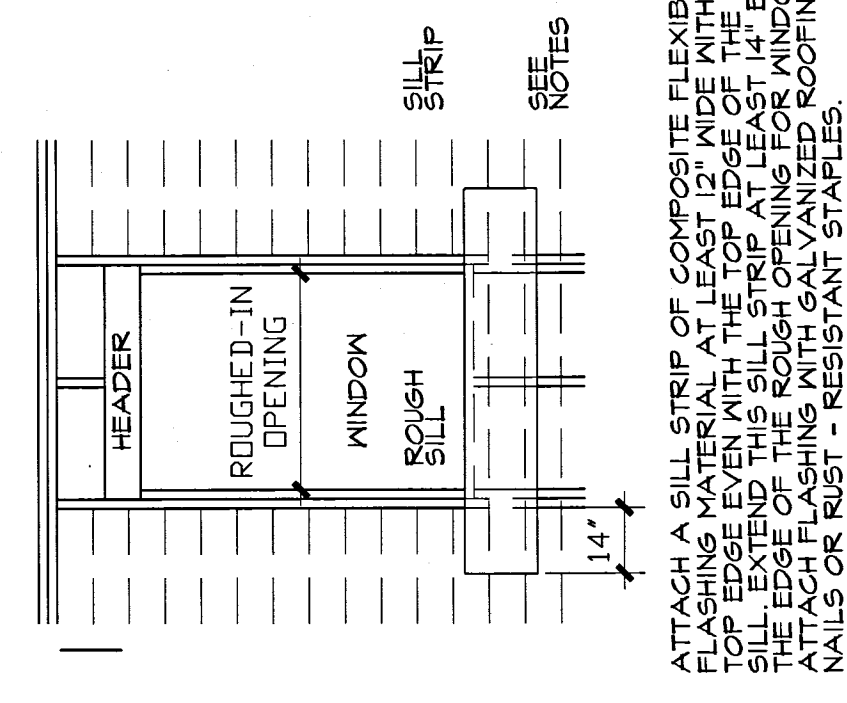
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D-2
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 11/13/15
SHEET NO. 20
JANUARY 08, 2010



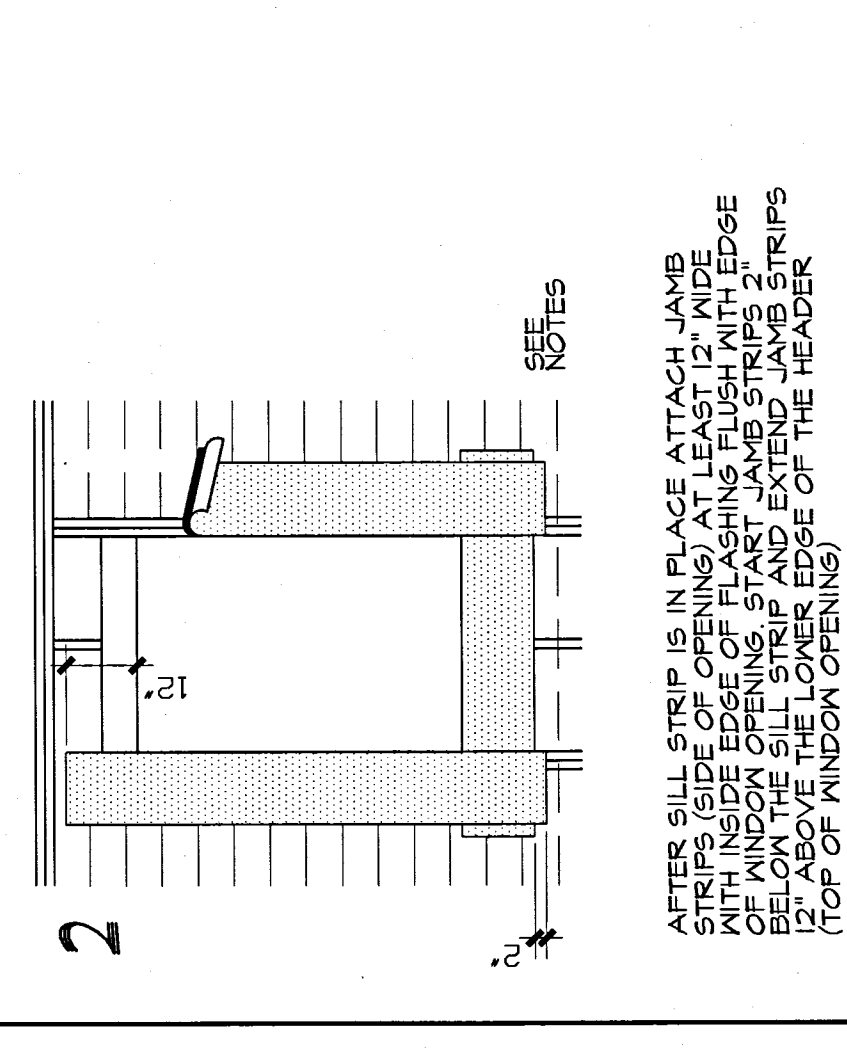
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DECK/SOLID



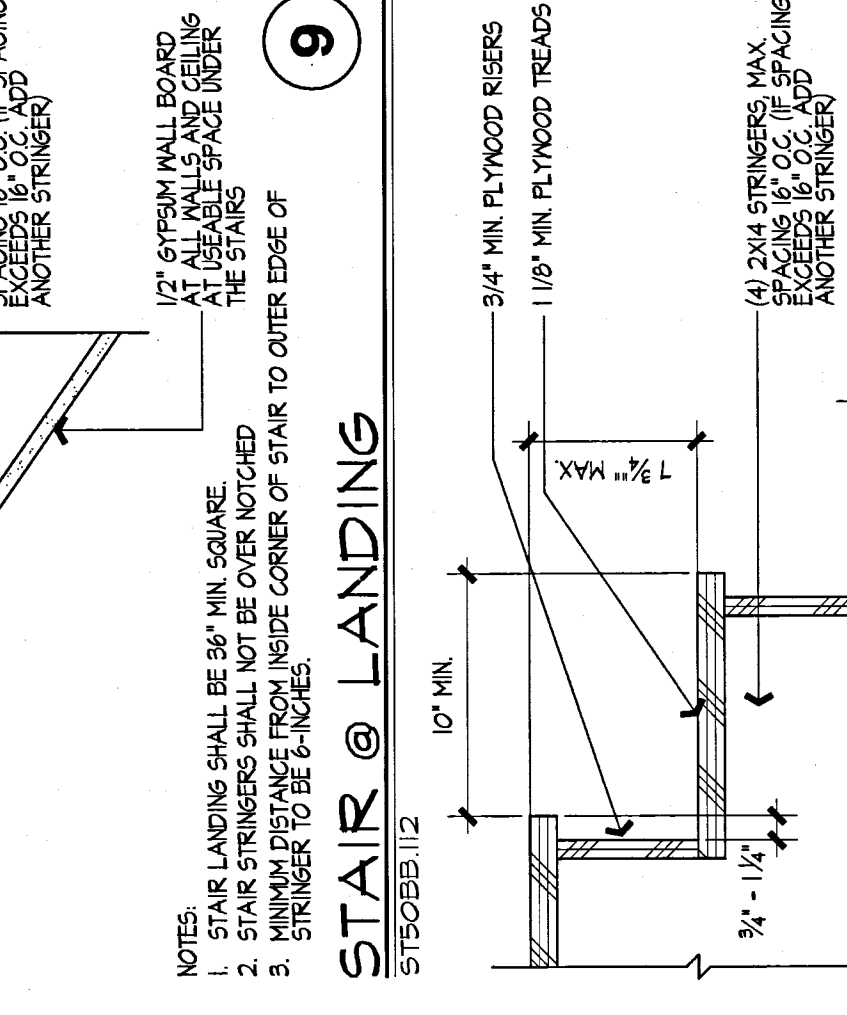
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STAGES



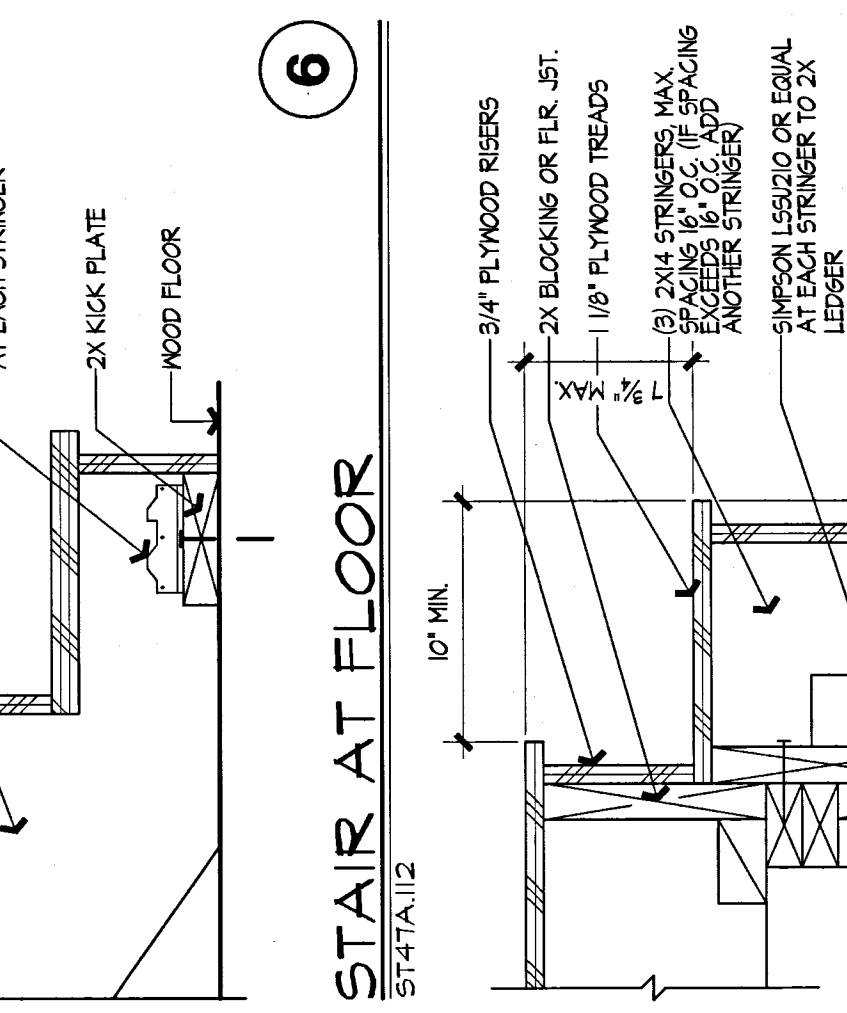
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WINDOW/S



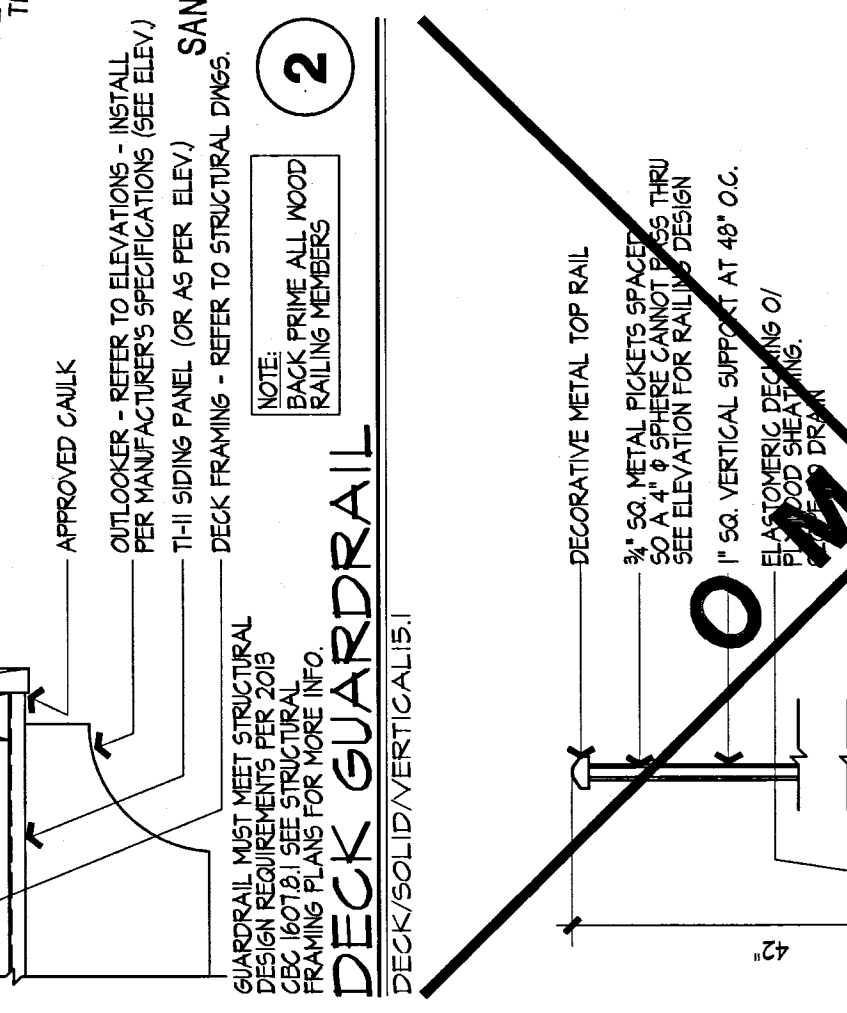
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STAIR/L



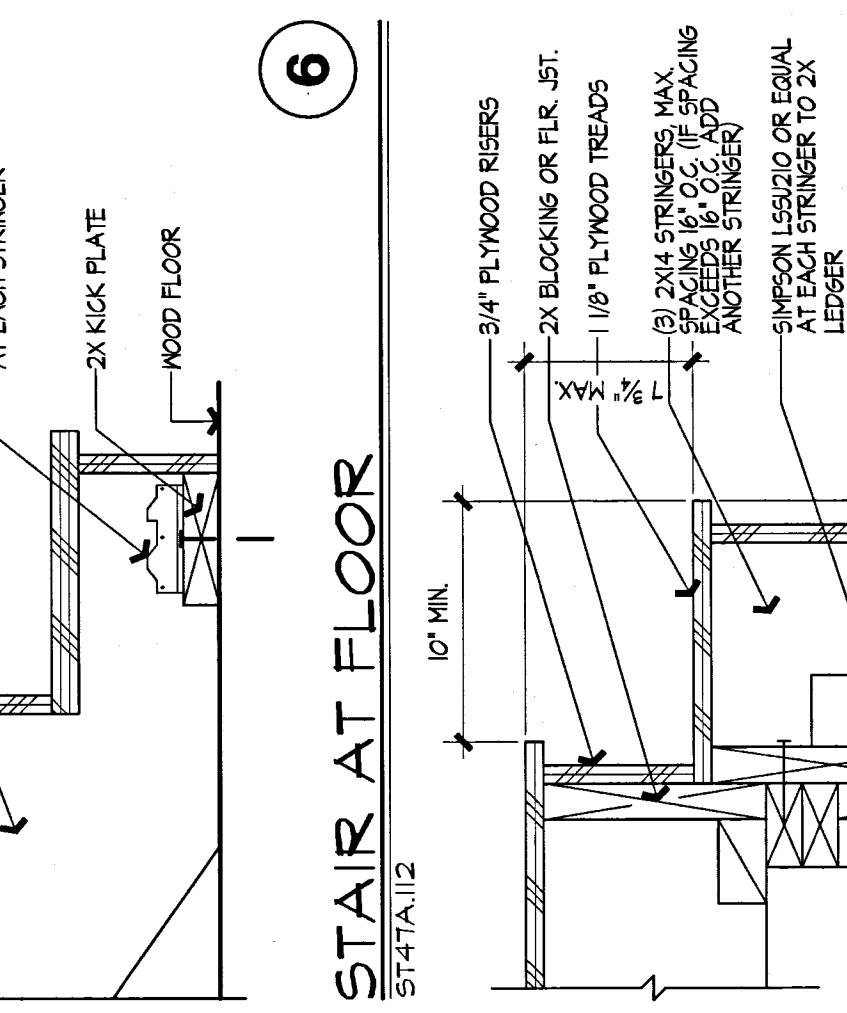
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STAIR/S



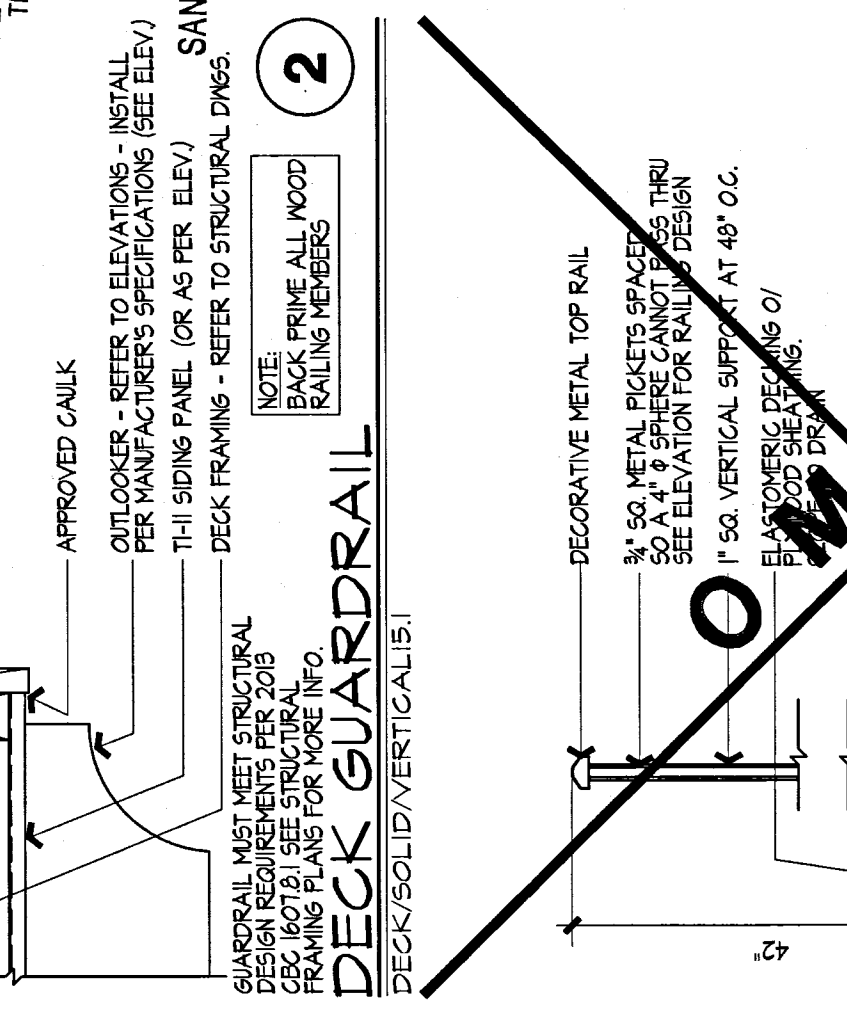
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STAIR/S



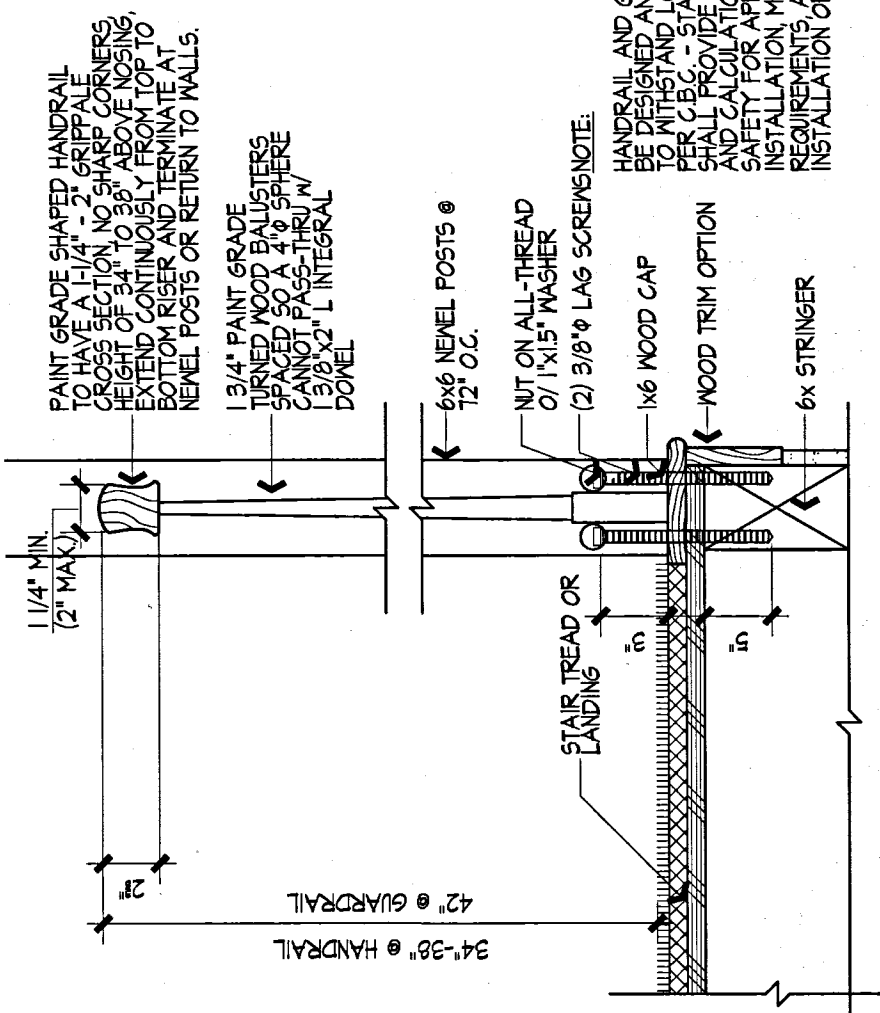
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STAIR/L



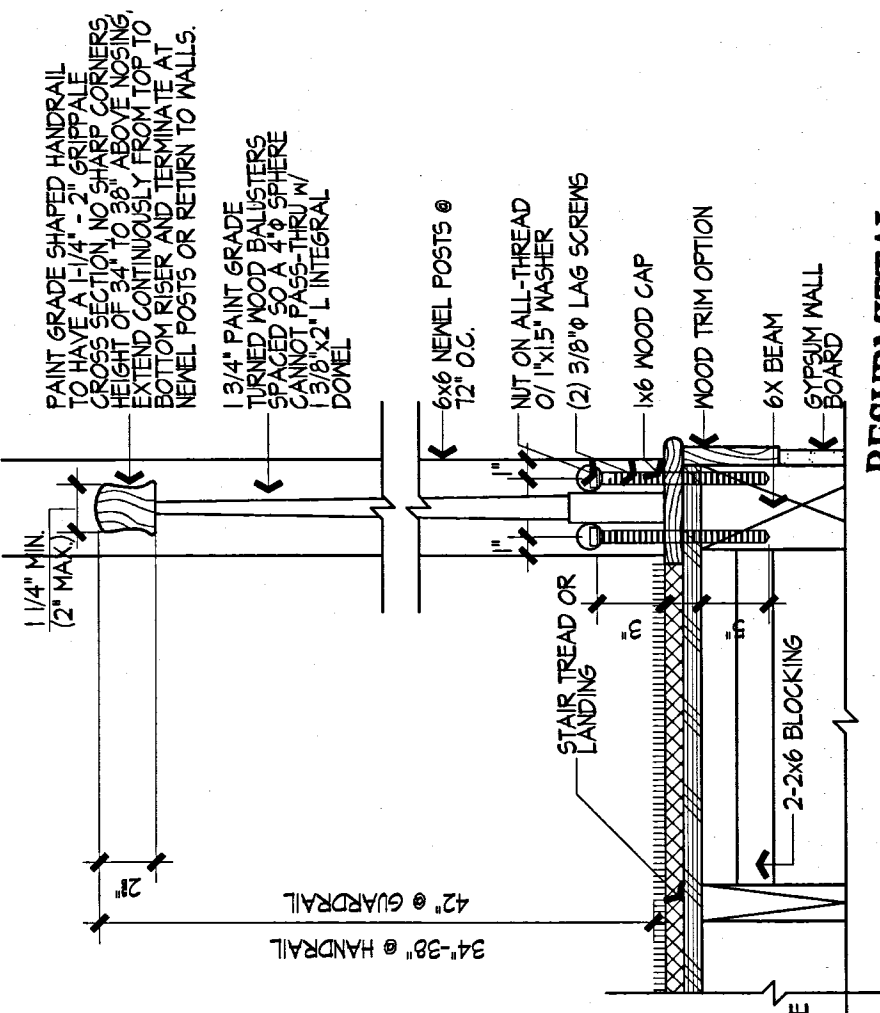
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STAIR/L



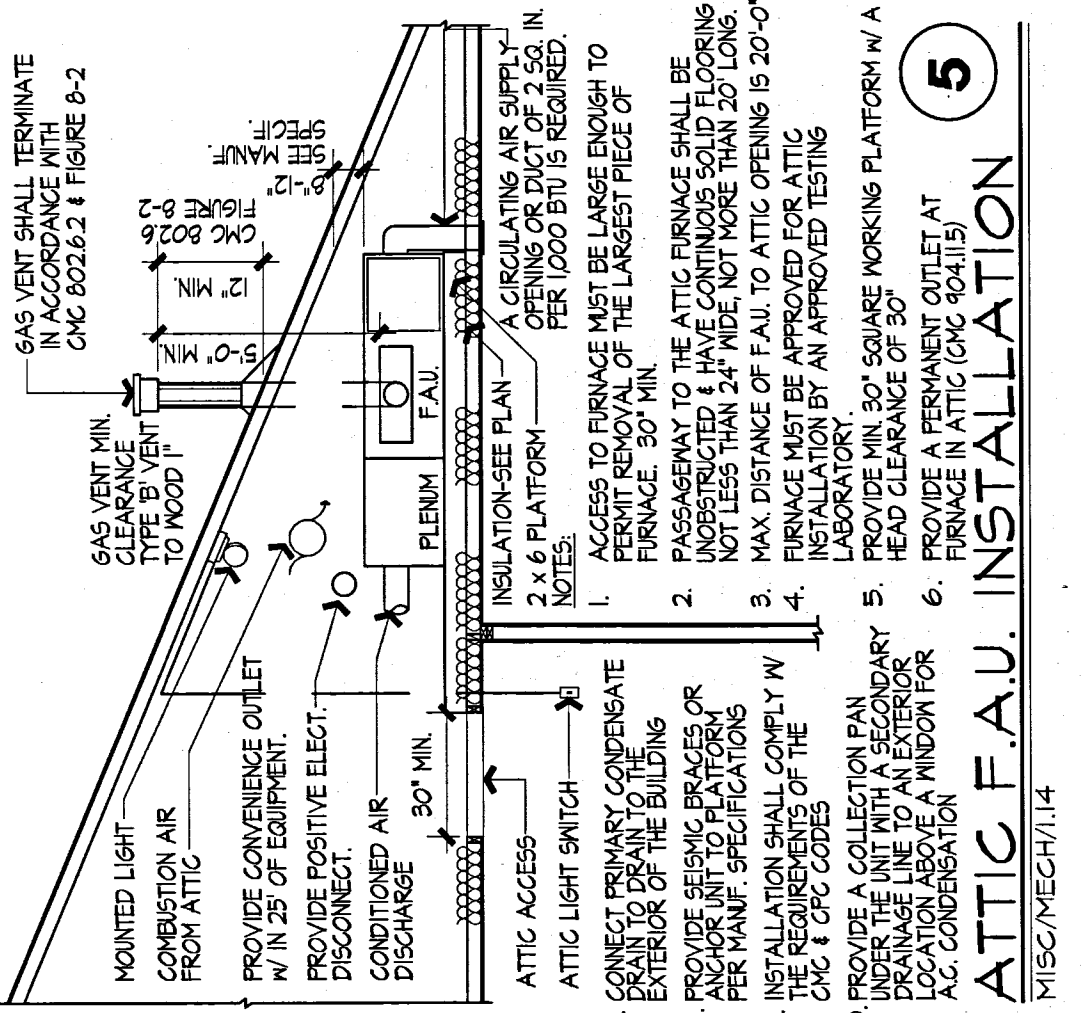
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STAIR/L



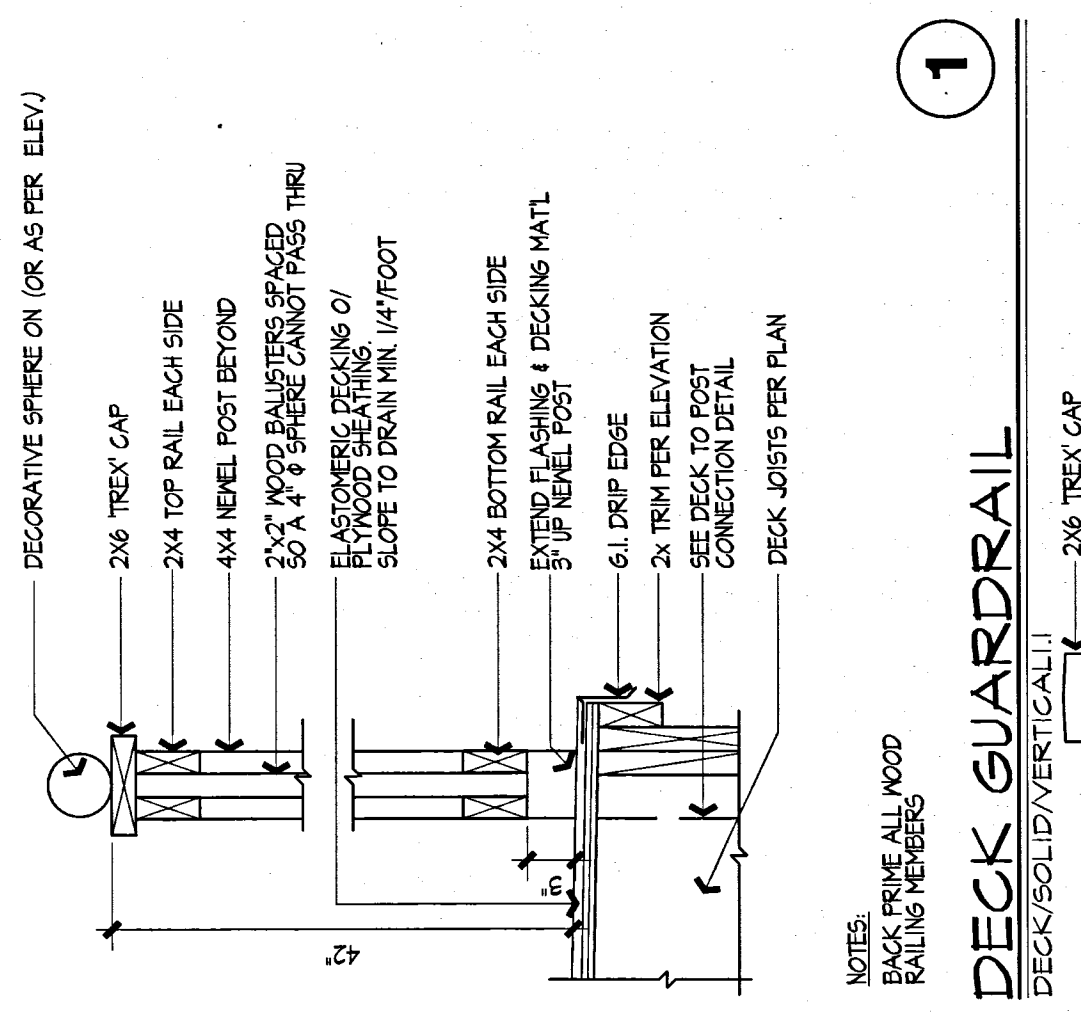
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STAIR/L



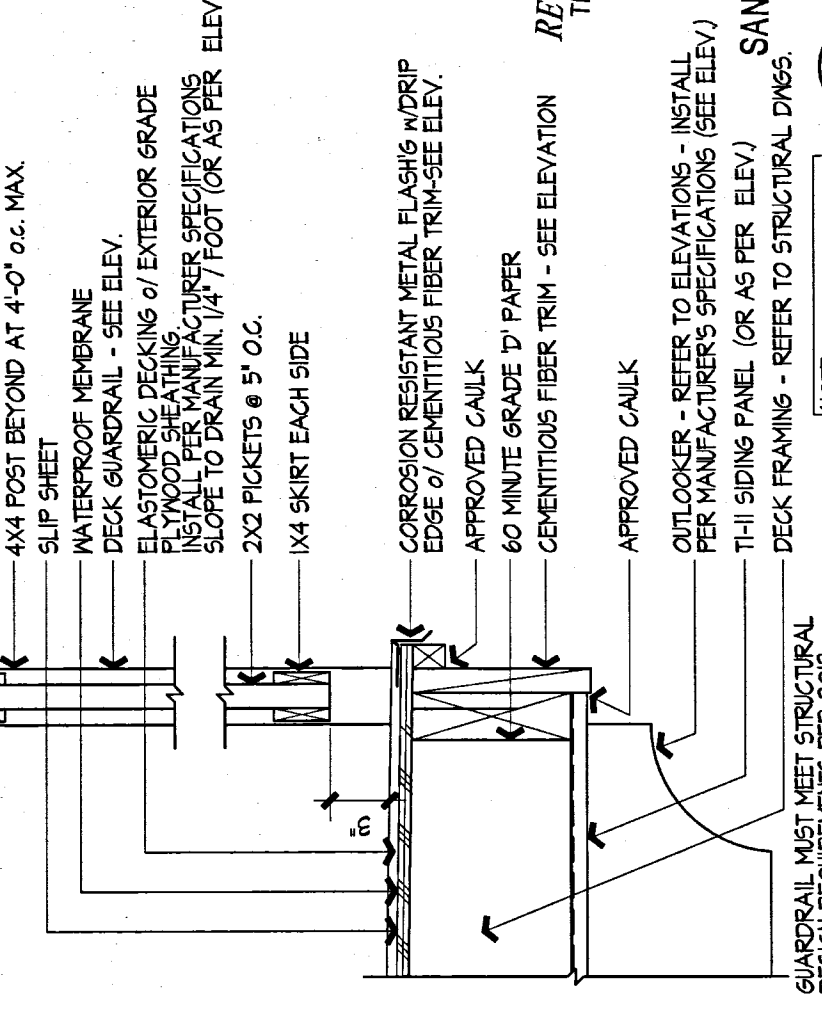
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DECK/SOLID/METAL



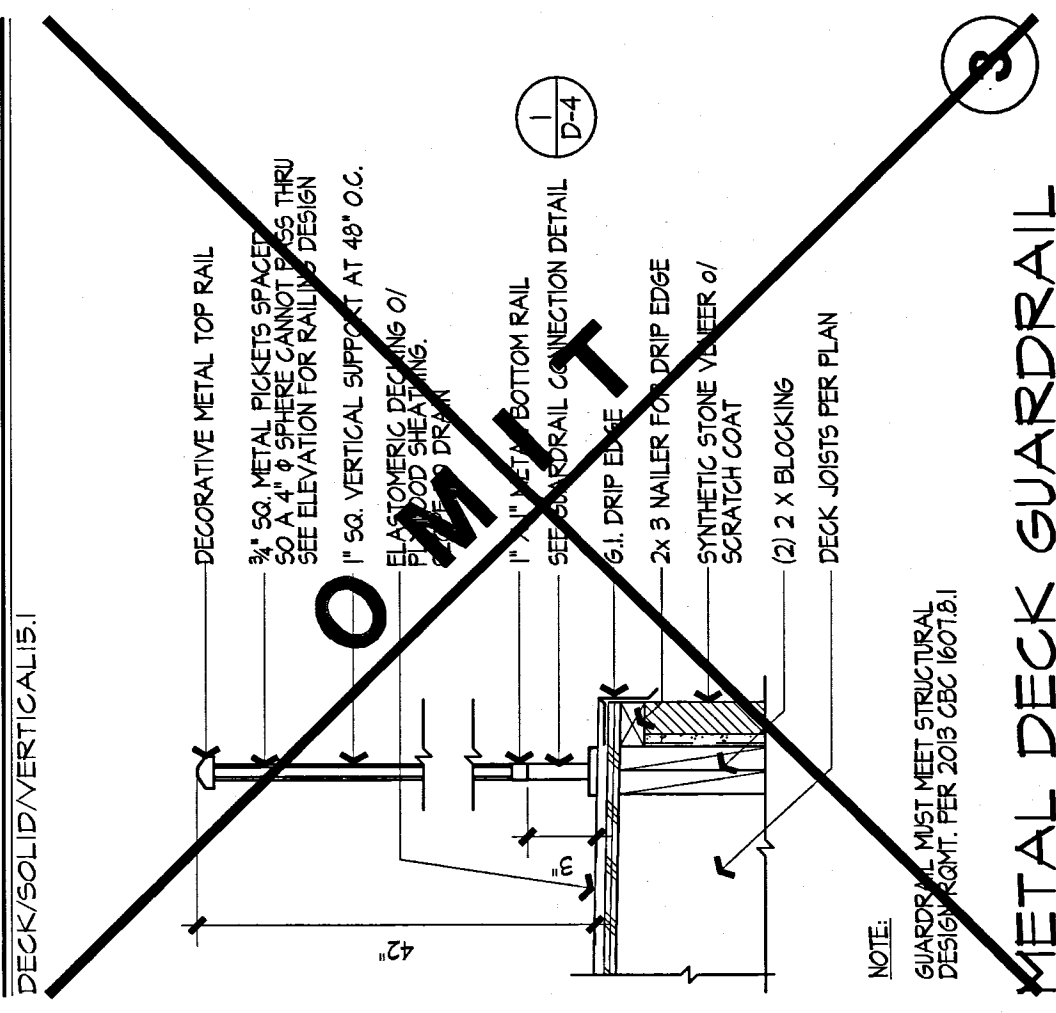
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ATTIC F.A.U. INSTALLATION
MISC/METAL



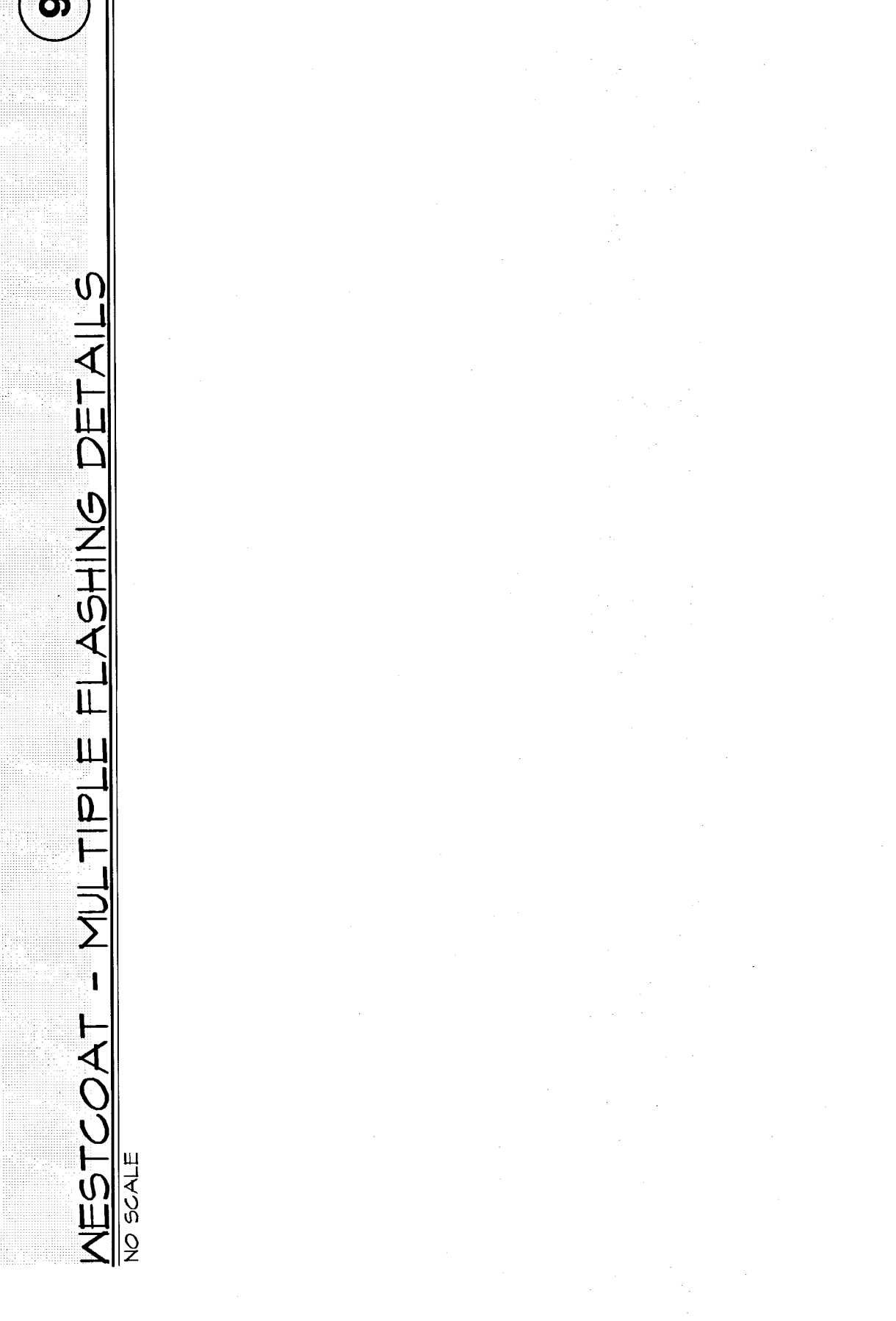
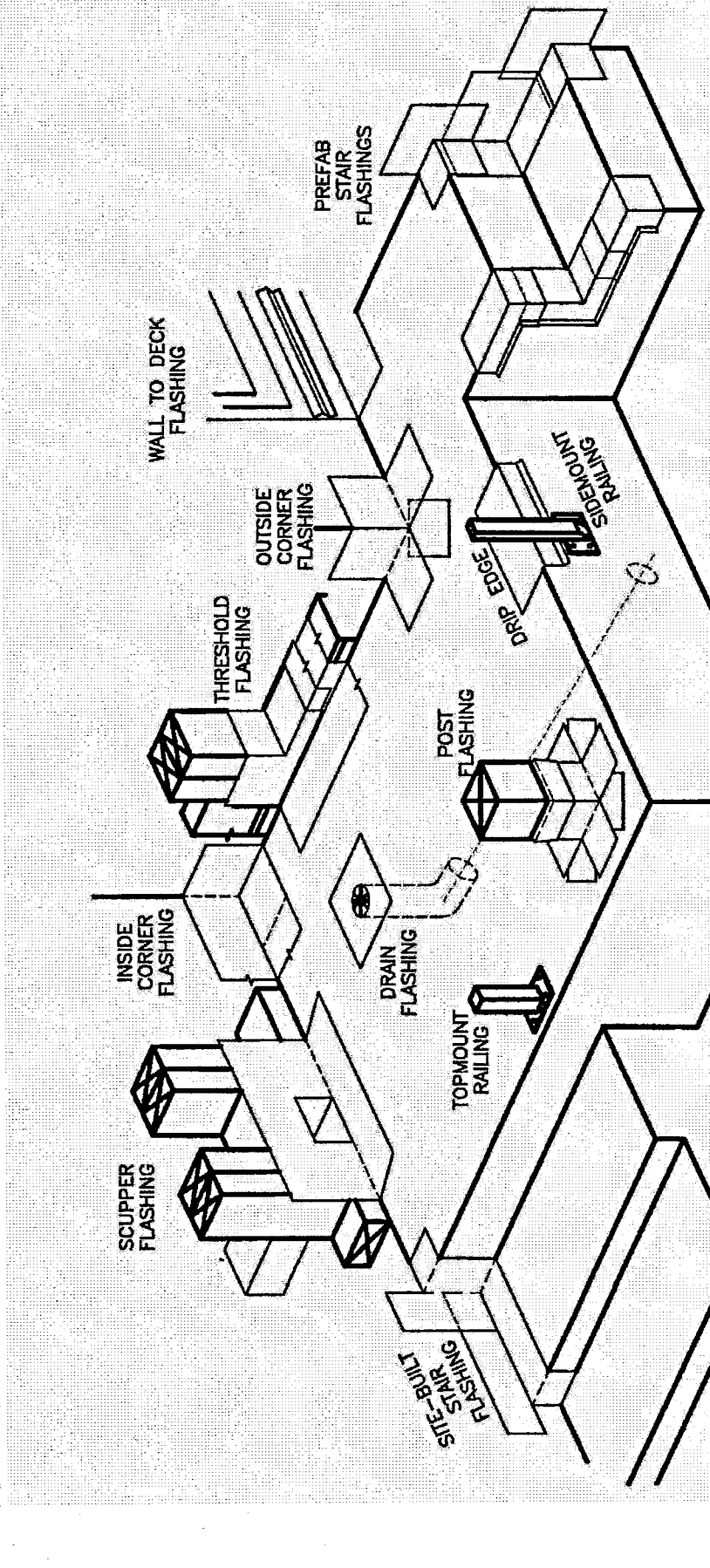
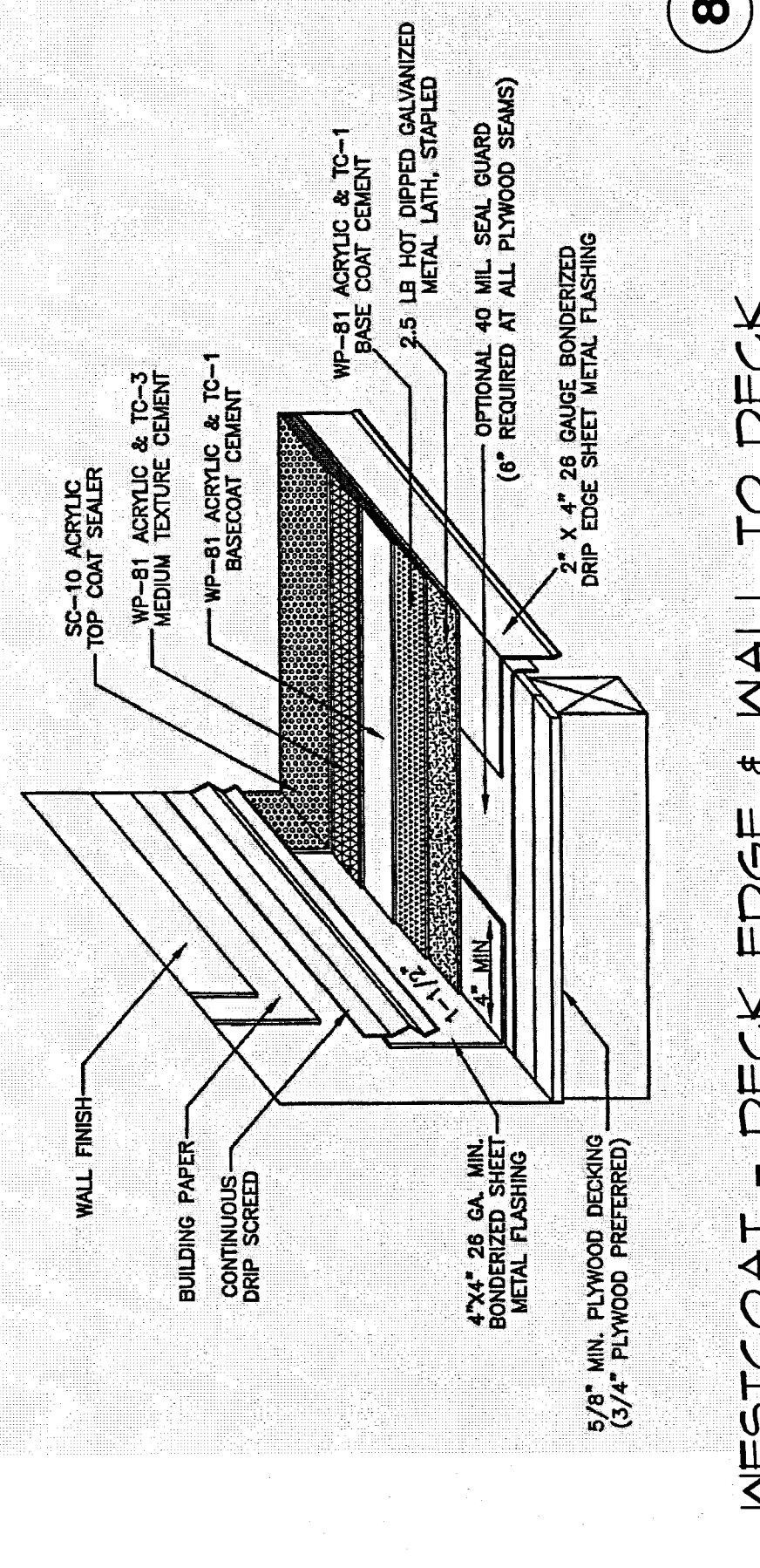
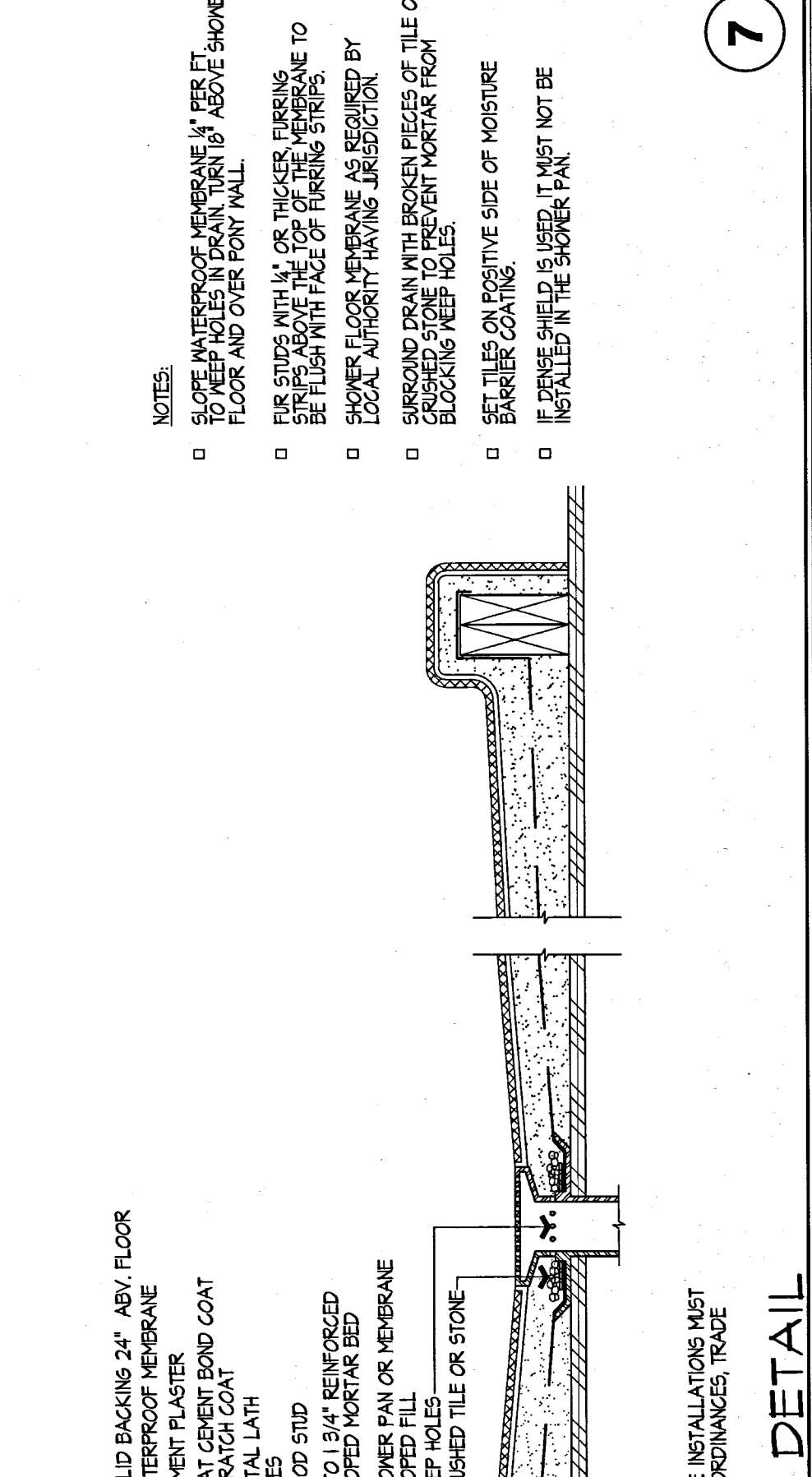
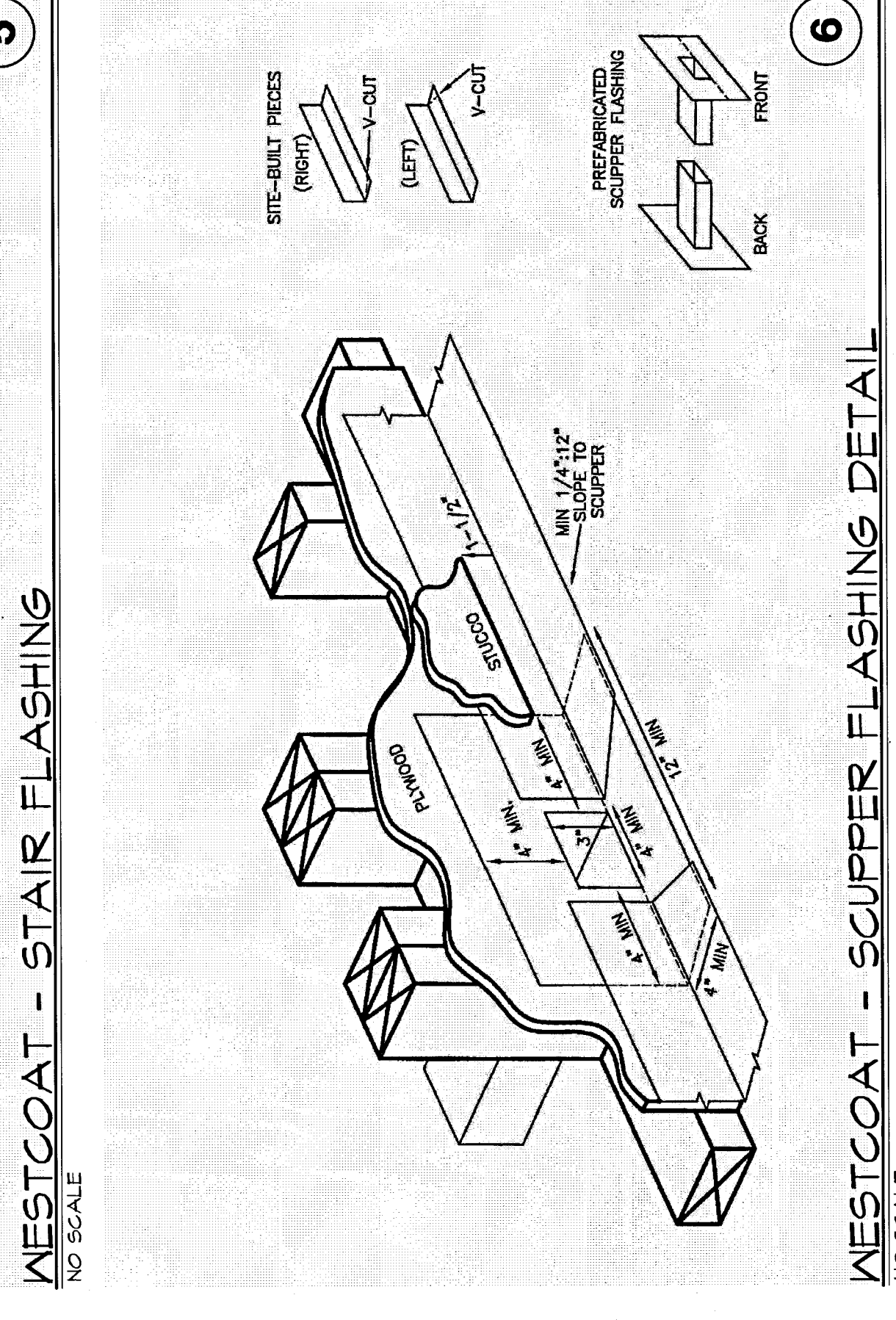
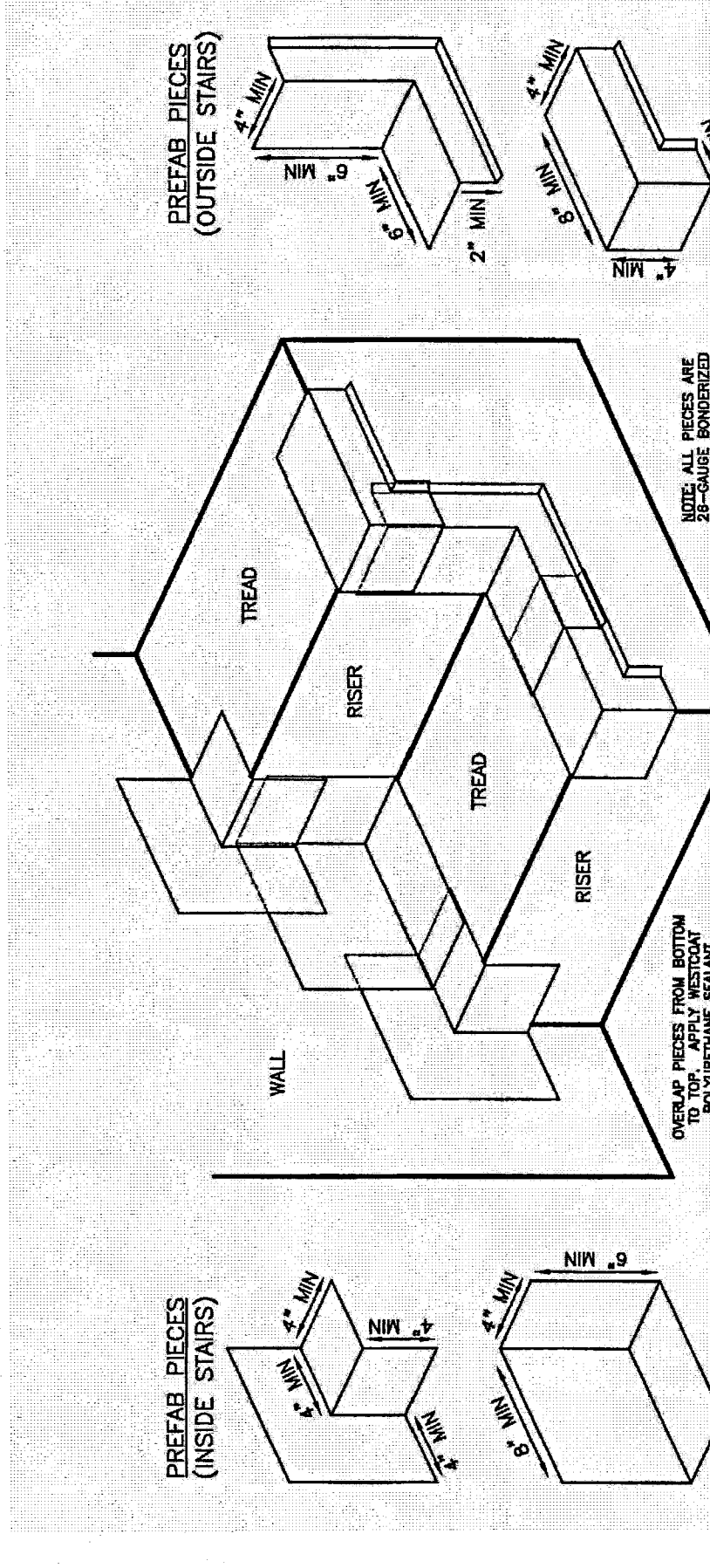
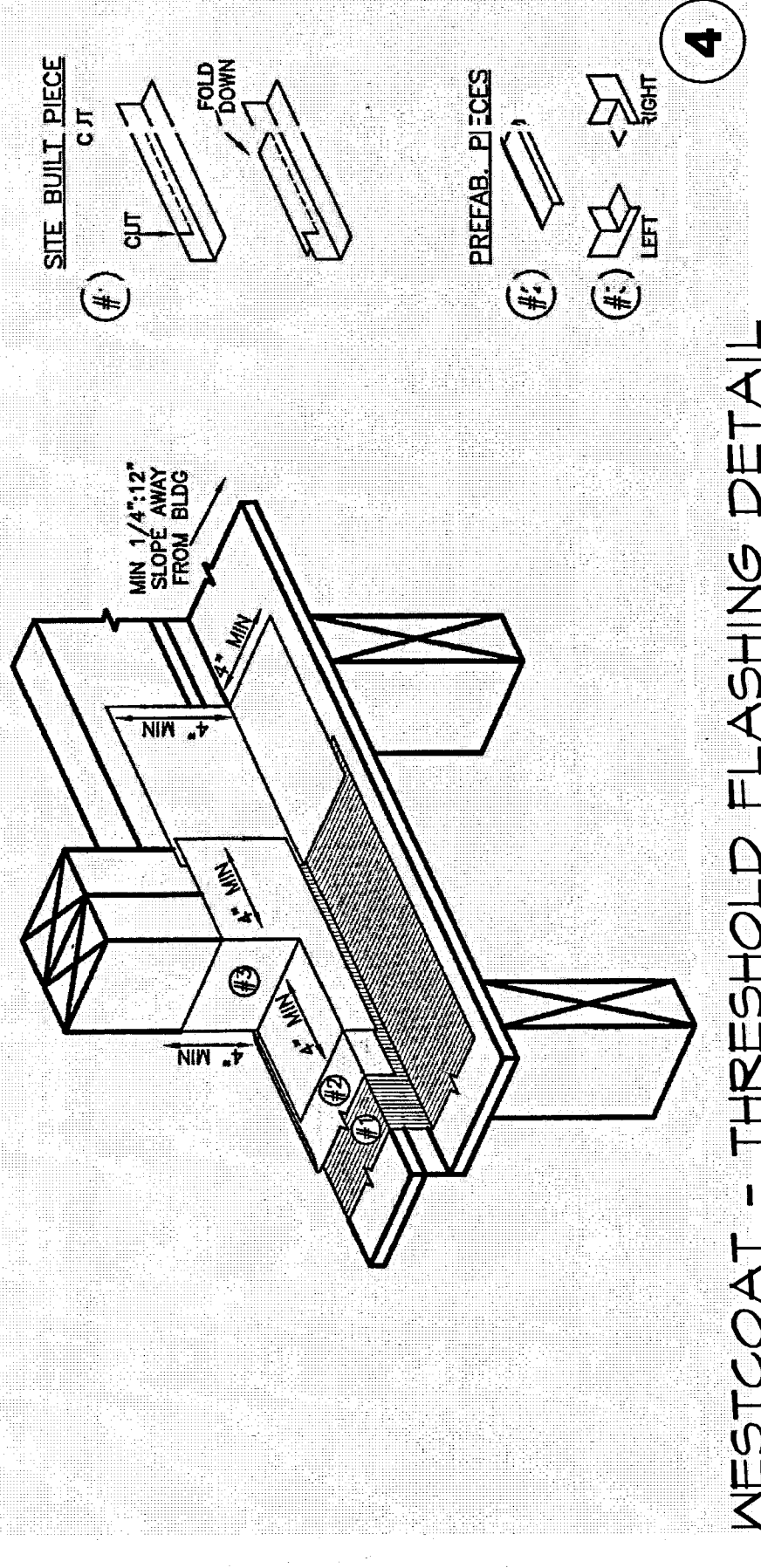
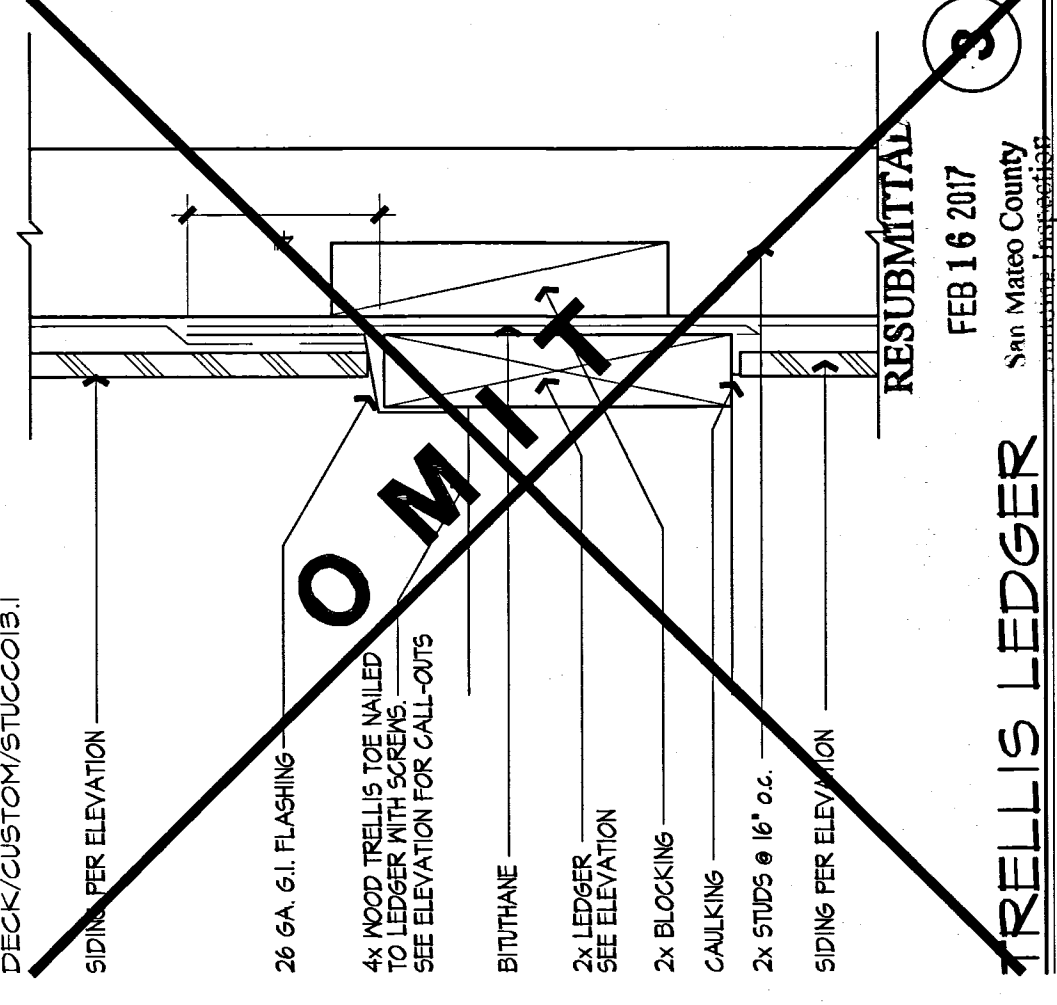
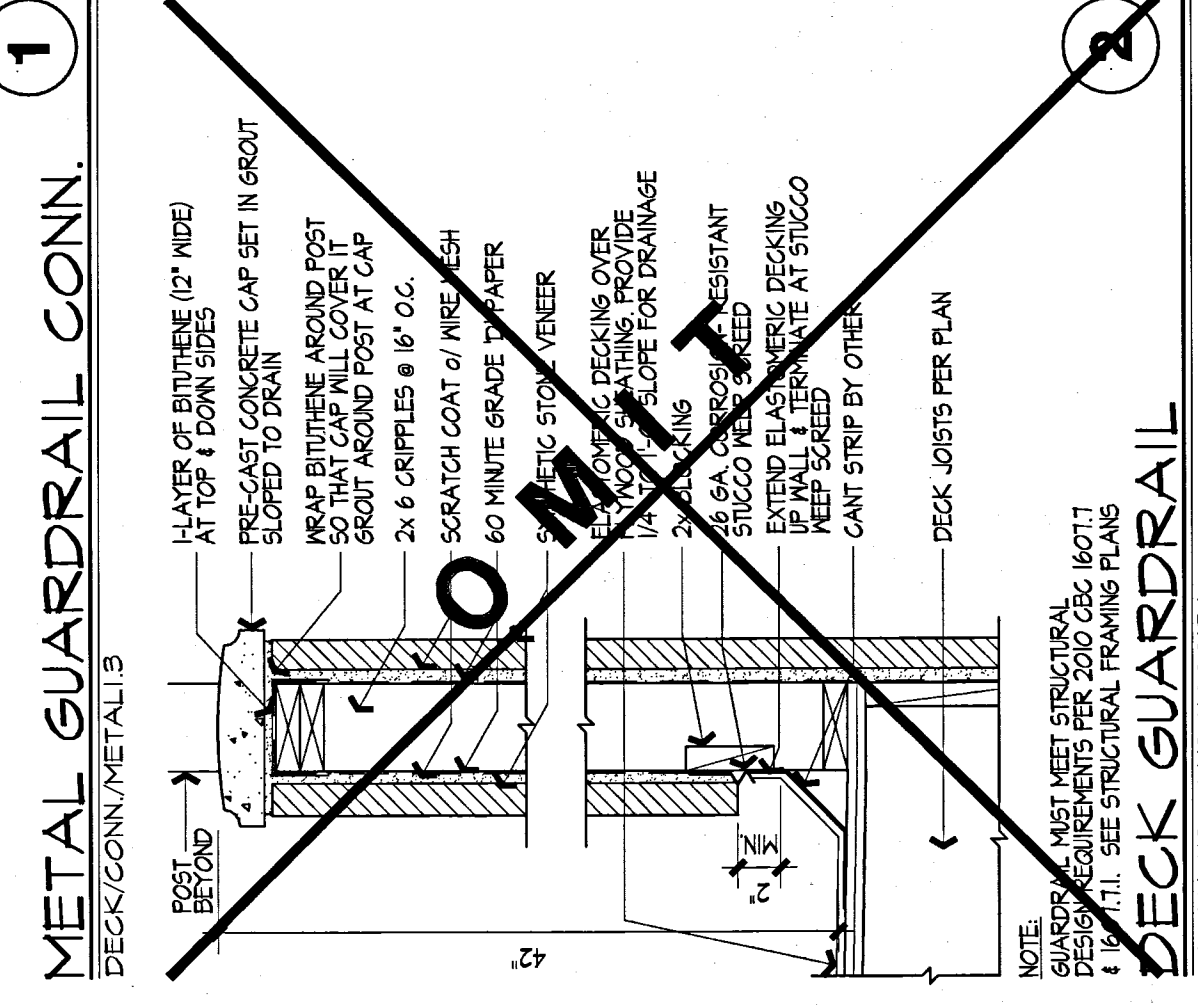
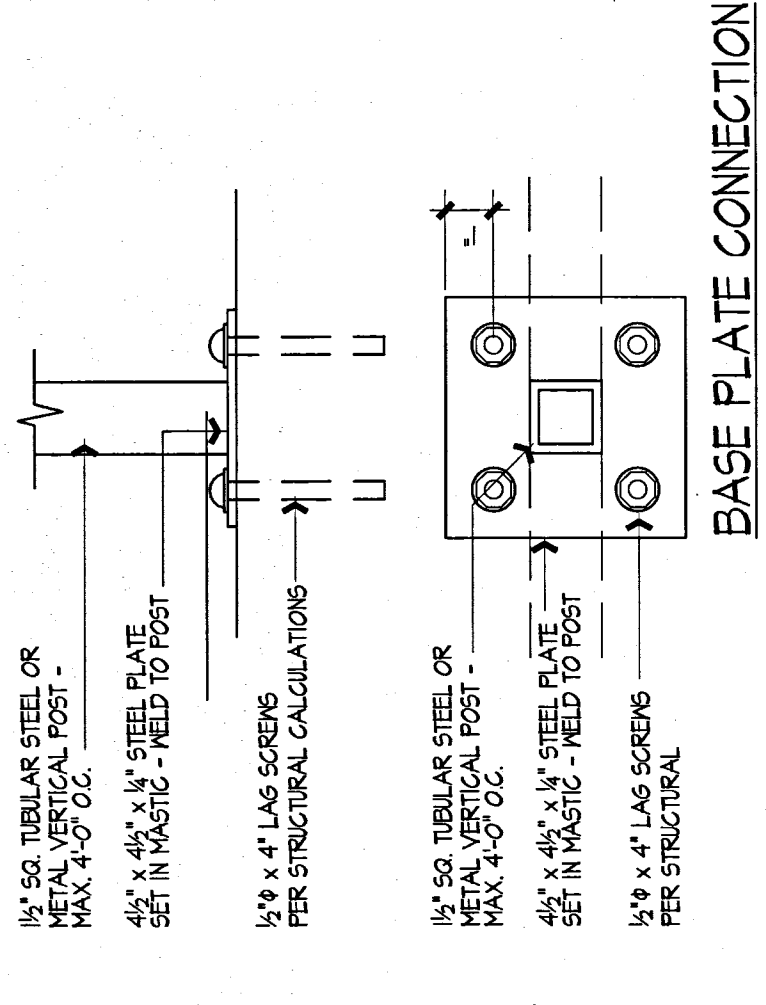
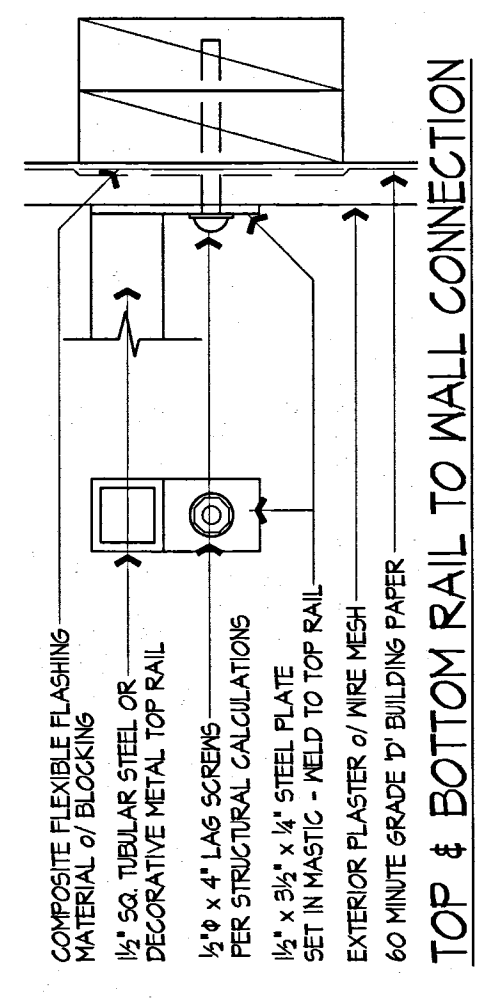
1
DECK GUARDRAIL
DECK/SOLID/VERTICAL



2
DECK GUARDRAIL
DECK/SOLID/VERTICAL



3
OMIT
DECK/SOLID/VERTICAL



NOTE:
 1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 2. ALL TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE CODES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT AND LOCAL BUILDING CODES & ENFORCEMENT TRICE PRACTICES AND CLIMATIC CONDITIONS.

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REVISIONS BY

Table with 4 columns: No., Description, Date, and Initials. Contains revision entries for the project.

Designer: Mark Cross & Associates, Inc. 8881 Research Drive Irvine, CA 92618

Owner: Tonderoga Partners, LLC 655 Skyway Suite #230 San Carlos, CA 94070

Project: Highland Estates Lot #10 San Mateo County, California

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Project: Highland Estates Lot #10 San Mateo County, California

CF-1B

Table with multiple columns: HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY. Includes sections for SYSTEM LOAD, SYSTEM SELECTION, and HEATING SYSTEM SELECTION.

Project: Tonderoga Partners, LLC - San Mateo County, CA Zone: 3

Well Insulation: R-15 in 2x4 Exterior Walls

Ceiling Insulation: R-21 in 2x6 or Greater Exterior Walls

Radiant Floor Barrier: Not Required

Slab Edge Insulation: N/A

Whole House Fan: Not Required

Minimum Furnace AFUE: 82% AFUE Low Leakage Furnace to be Rater Verified

Minimum Heating Capacity: 35-44 BTUH

Minimum AC SEER: 14.0 SEER17 EER

AC Tonnage: Min. Size = 53.005 @ 97 (AC Size By Mechanical Contractor)

Duct Installation: R-6.0 For Ducts & Plenums & Unconditioned Spaces

Note(1): 1) All ducts shall be insulated with a minimum of 1 inch insulation. This is in addition to the insulation required by the mandatory requirements per Sec. 150.002.

Note(2): 2) The water heater for this house will have a hot water demand type recirculating system with manual control.

Note(3): 3) The house will have a tankless water heater with an energy factor of .92 or greater and

Note(4): 4) All windows and glass doors will be non-tilt frames with a weighted average NFRC U-factor of .32 or less and a weighted average SHGC of .50 or less with Low-E Glass.

NOV 18 2019 SAN MATEO CO. BLDG. INSP. REVIEWED FOR CODE COMPLIANCE

RESUBMITTAL FEB 14 2017

San Mateo County Building Inspection

Job # 14276

Date 12/7/15

Drawn R.A.M.

CF-1B-0

Table with multiple columns: HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY. Includes sections for SYSTEM LOAD, SYSTEM SELECTION, and HEATING SYSTEM SELECTION.

Project: Tonderoga Partners, LLC - San Mateo County, CA Zone: 3

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NOV 18 2019 SAN MATEO CO. BLDG. INSP. REVIEWED FOR CODE COMPLIANCE

RESUBMITTAL FEB 14 2017

San Mateo County Building Inspection

Job # 14276

Date 12/7/15

Drawn R.A.M.

CF-1B-1

Table with multiple columns: HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY. Includes sections for SYSTEM LOAD, SYSTEM SELECTION, and HEATING SYSTEM SELECTION.

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Slab Edge Insulation: N/A

Whole House Fan: Not Required

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NOV 18 2019 SAN MATEO CO. BLDG. INSP. REVIEWED FOR CODE COMPLIANCE

RESUBMITTAL FEB 14 2017

San Mateo County Building Inspection

Job # 14276

Date 12/7/15

Drawn R.A.M.

CF-1B-2

Table with multiple columns: HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY. Includes sections for SYSTEM LOAD, SYSTEM SELECTION, and HEATING SYSTEM SELECTION.

Project: Tonderoga Partners, LLC - San Mateo County, CA Zone: 3

Well Insulation: R-15 in 2x4 Exterior Walls

Ceiling Insulation: R-21 in 2x6 or Greater Exterior Walls

Radiant Floor Barrier: Not Required

Slab Edge Insulation: N/A

Whole House Fan: Not Required

Minimum Furnace AFUE: 82% AFUE Low Leakage Furnace to be Rater Verified

Minimum Heating Capacity: 35-44 BTUH

Minimum AC SEER: 14.0 SEER17 EER

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NOV 18 2019 SAN MATEO CO. BLDG. INSP. REVIEWED FOR CODE COMPLIANCE

RESUBMITTAL FEB 14 2017

San Mateo County Building Inspection

Job # 14276

Date 12/7/15

Drawn R.A.M.

CF-1B-3

Table with multiple columns: HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY. Includes sections for SYSTEM LOAD, SYSTEM SELECTION, and HEATING SYSTEM SELECTION.

Project: Tonderoga Partners, LLC - San Mateo County, CA Zone: 3

Well Insulation: R-15 in 2x4 Exterior Walls

Ceiling Insulation: R-21 in 2x6 or Greater Exterior Walls

Radiant Floor Barrier: Not Required

Slab Edge Insulation: N/A

Whole House Fan: Not Required

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NOV 18 2019 SAN MATEO CO. BLDG. INSP. REVIEWED FOR CODE COMPLIANCE

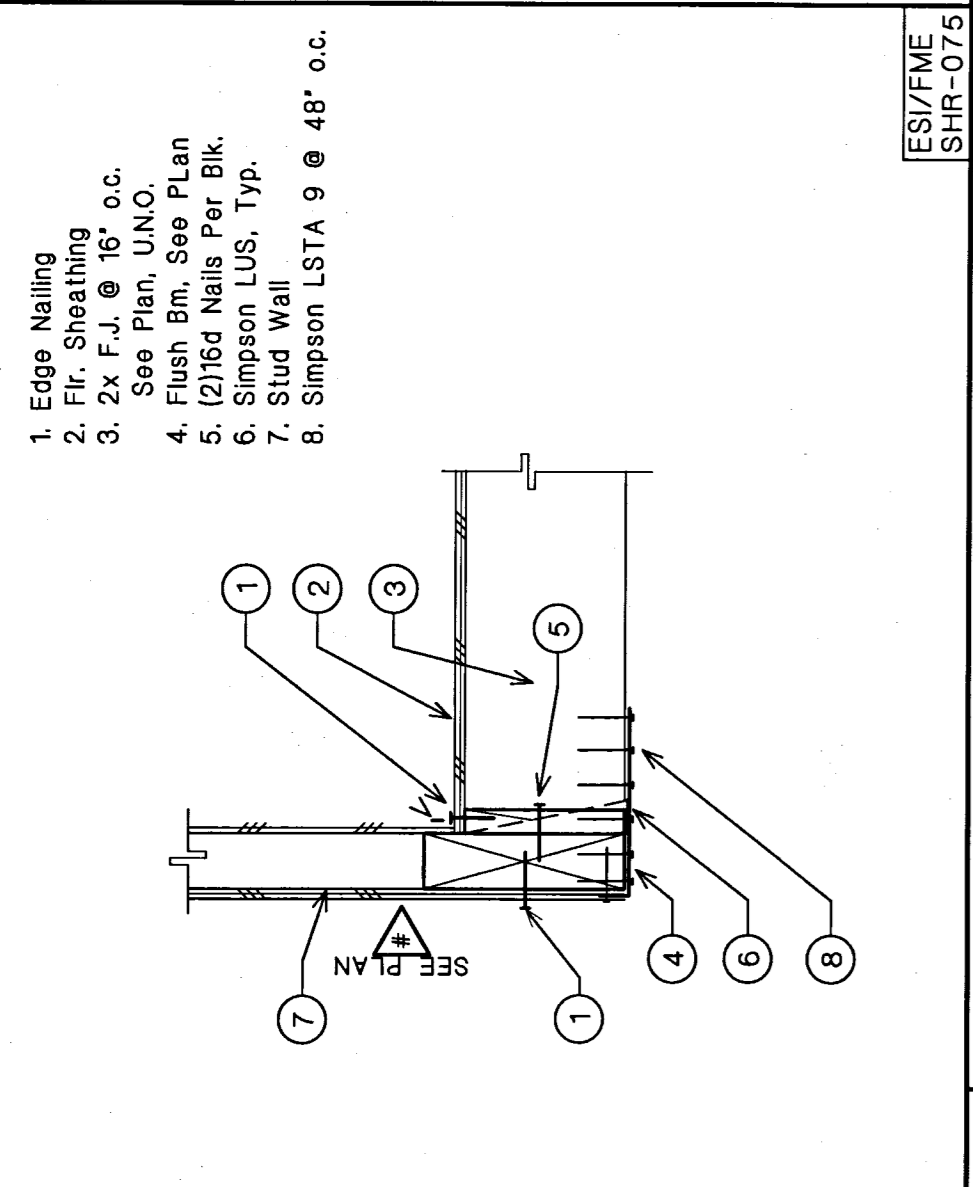
RESUBMITTAL FEB 14 2017

San Mateo County Building Inspection

Job # 14276

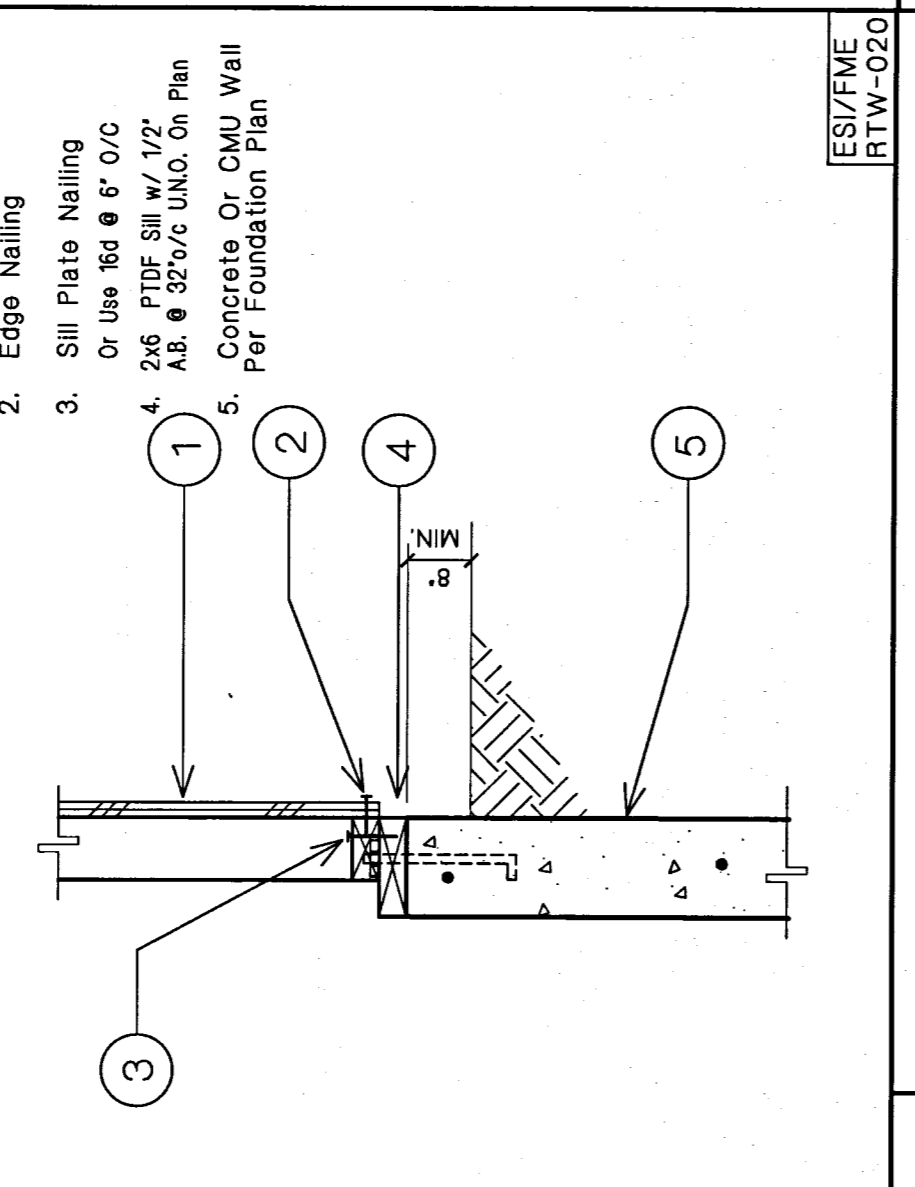
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Drawn R.A.M.



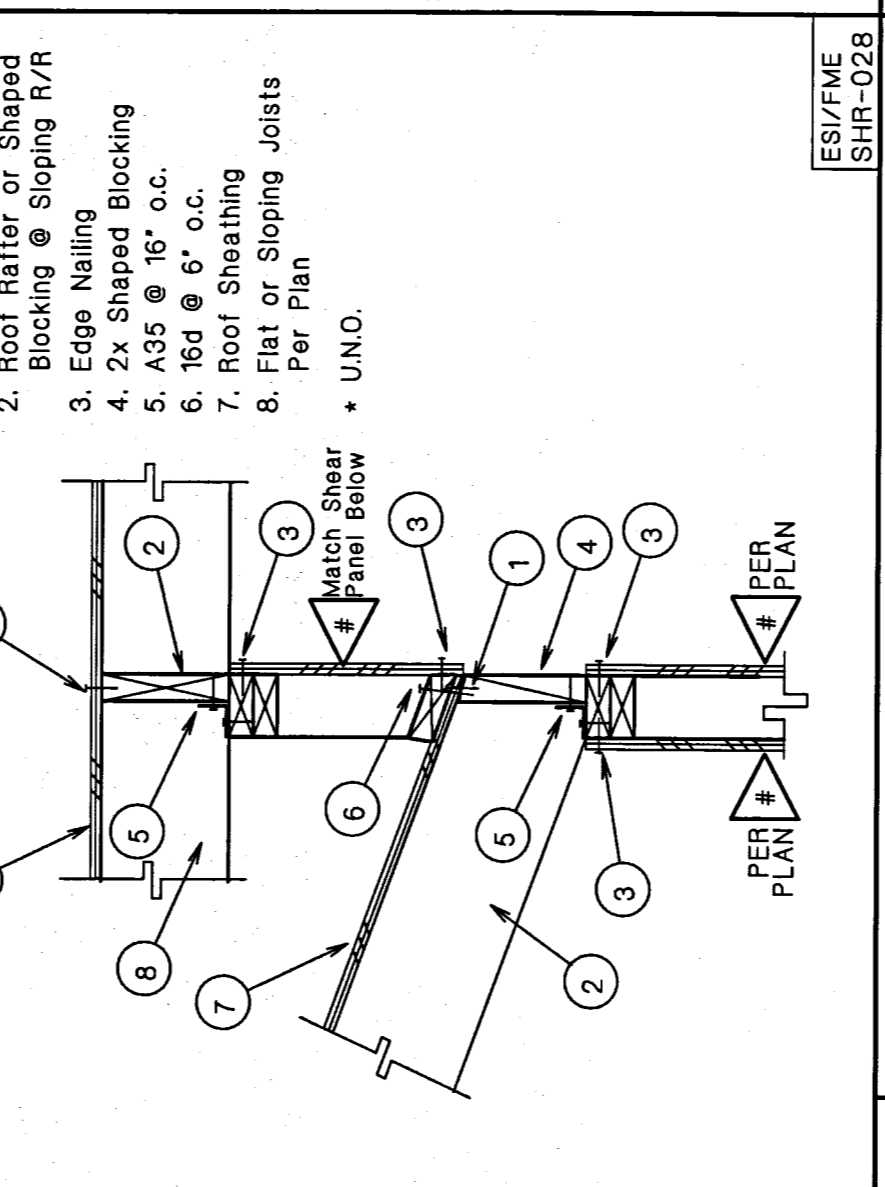
26 SHEAR TRANSFER

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ES/F/ME SHR-020



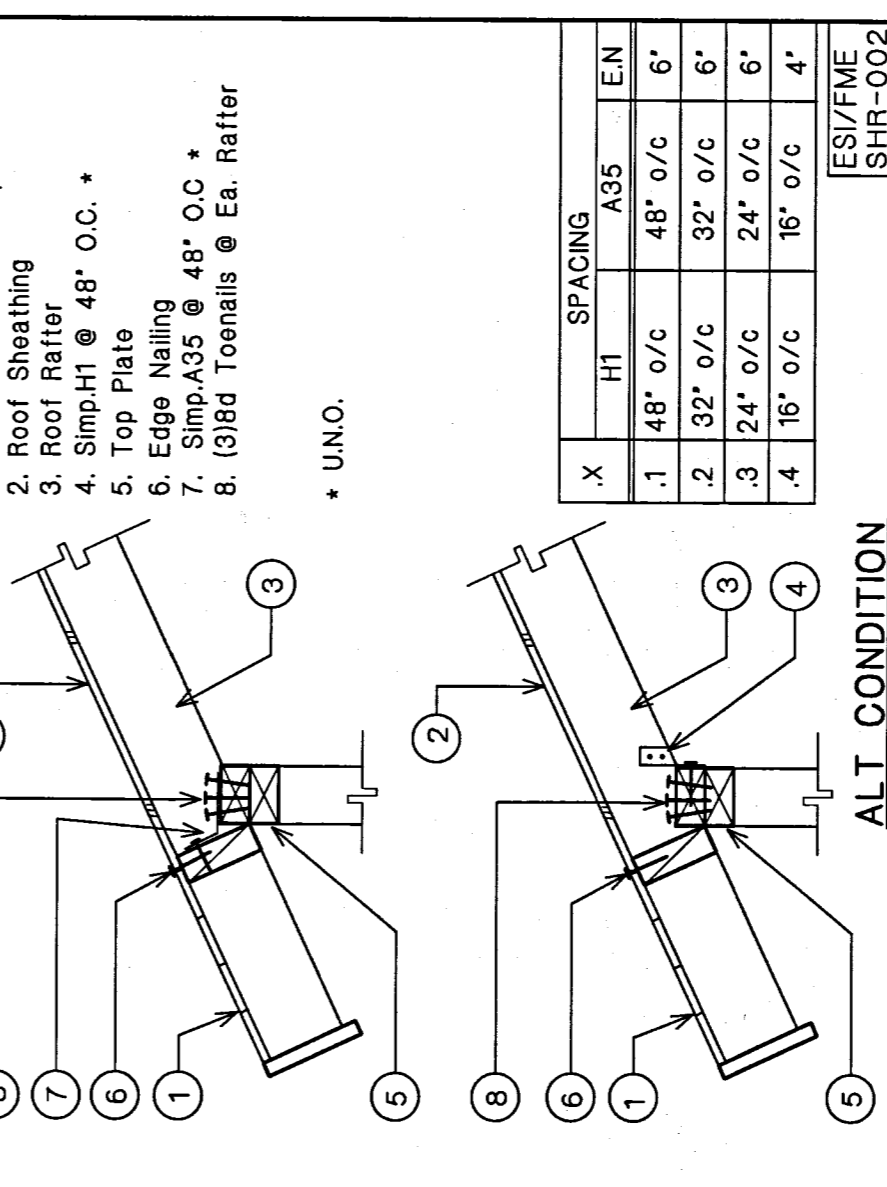
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ES/F/ME SHR-026
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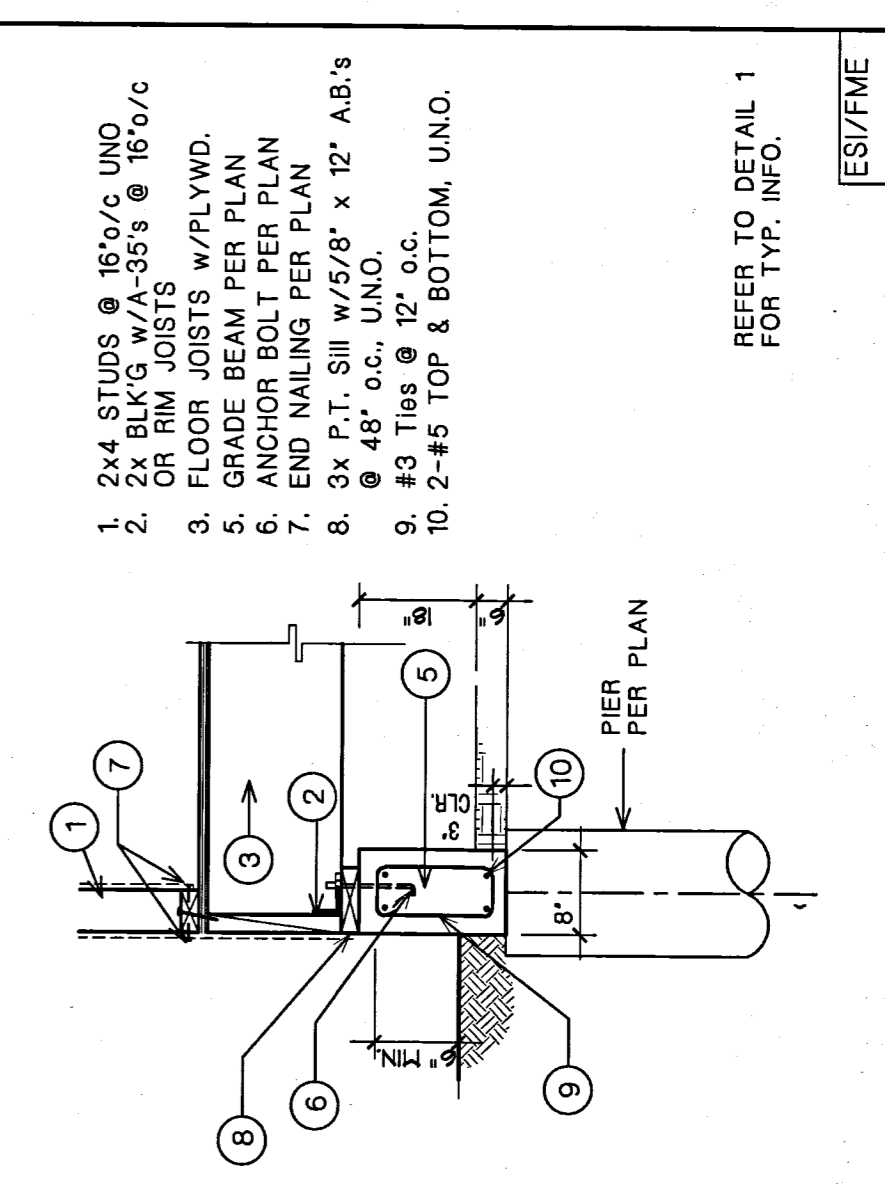
28 SHEAR TRANSFER

ES/F/ME SHR-022
ES/F/ME SHR-020



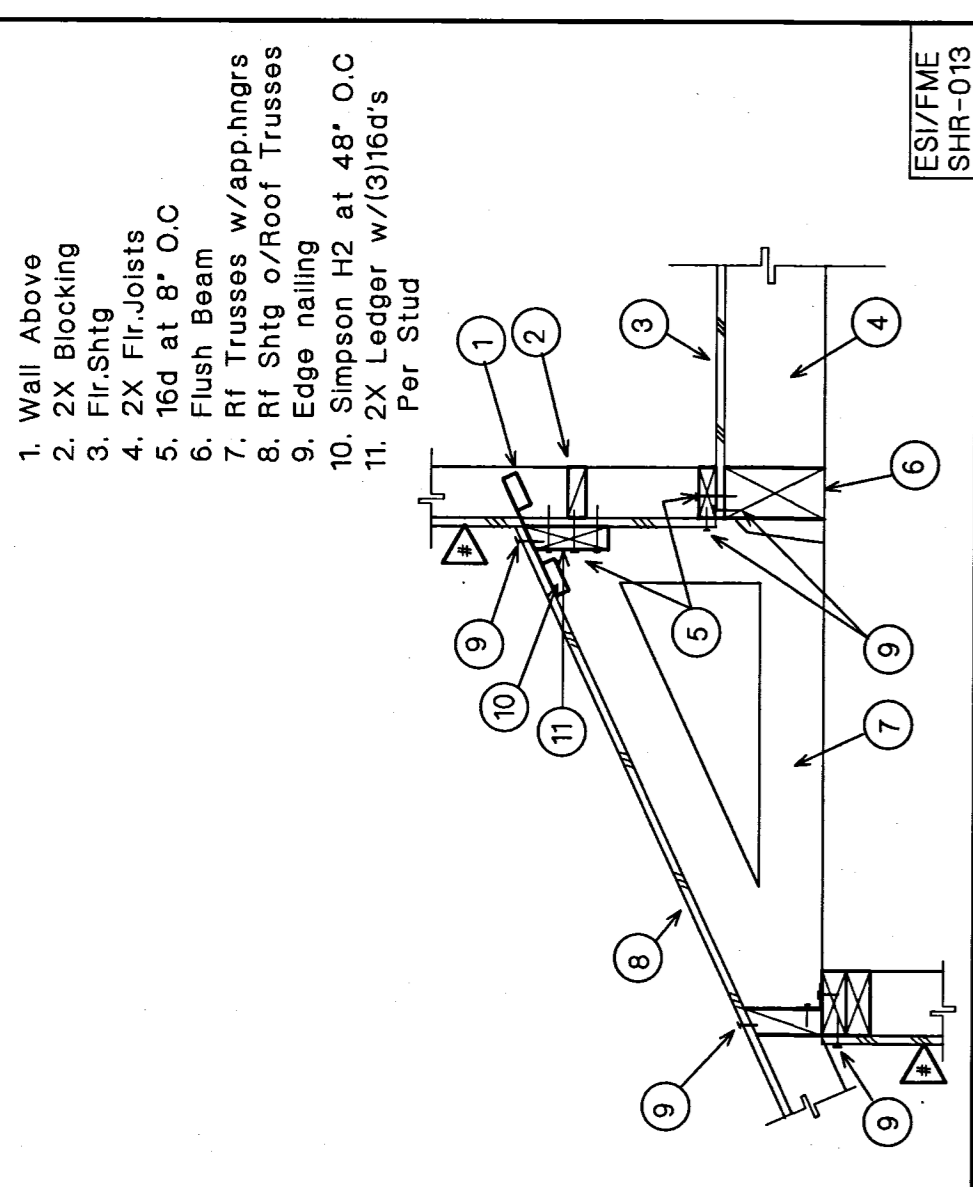
29 EAVE RAFTER SHEAR CONNECTION

ES/F/ME SHR-022
ES/F/ME SHR-020



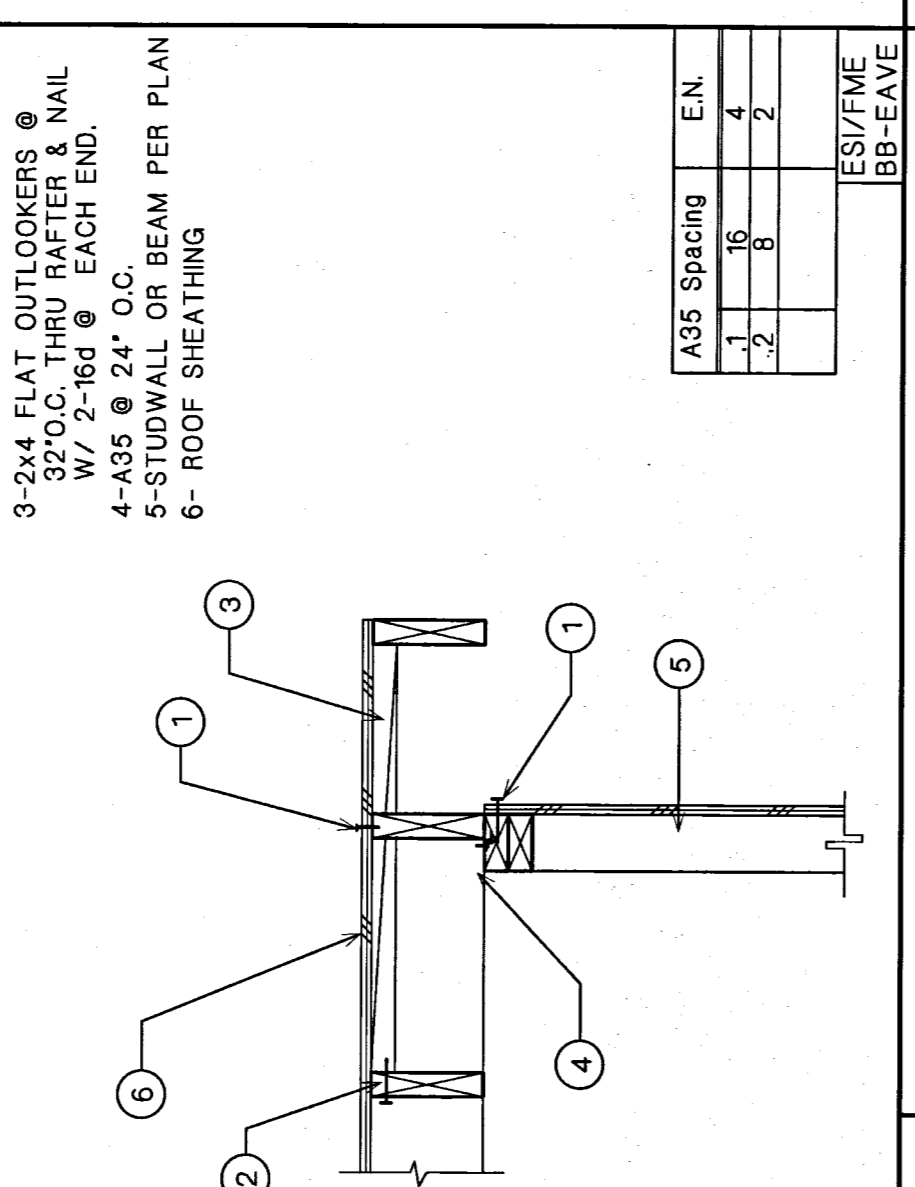
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ES/F/ME SHR-022
ES/F/ME SHR-020



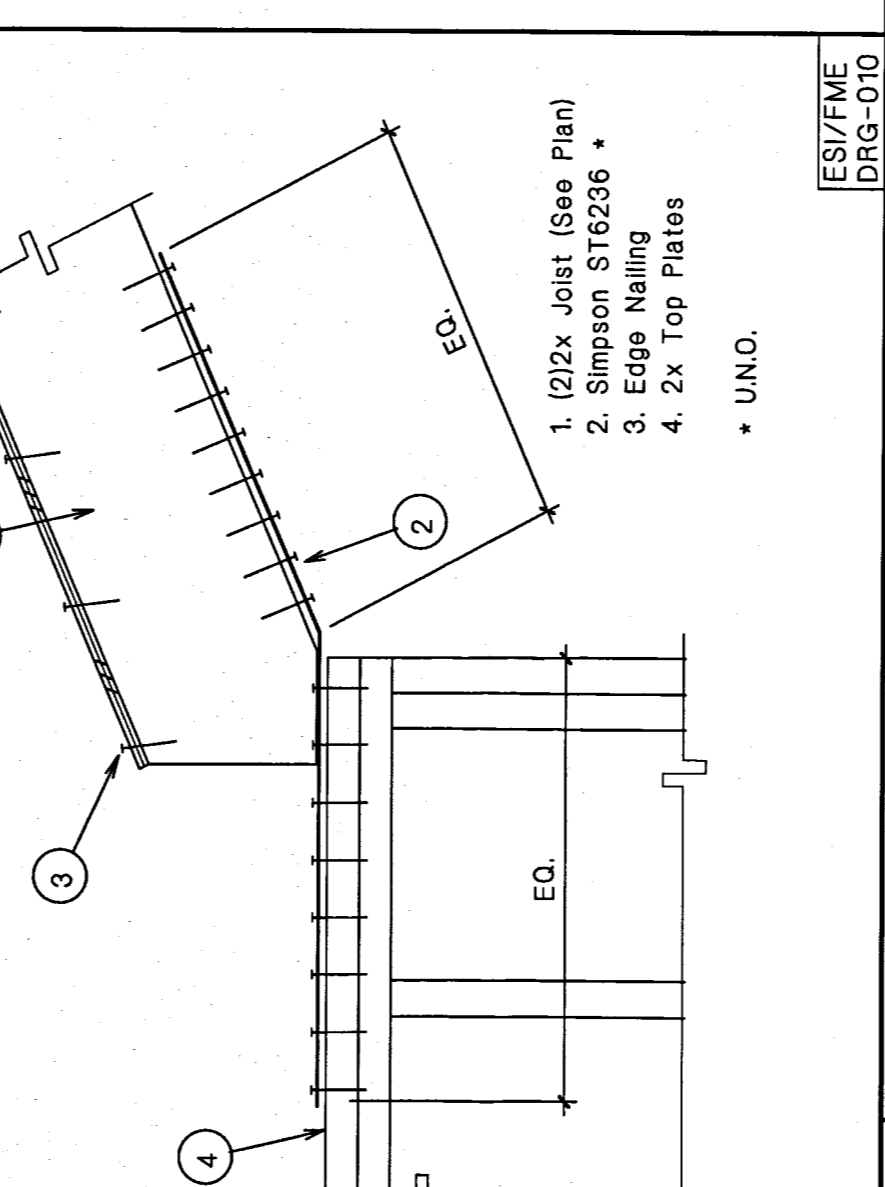
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ES/F/ME SHR-013
ES/F/ME SHR-020



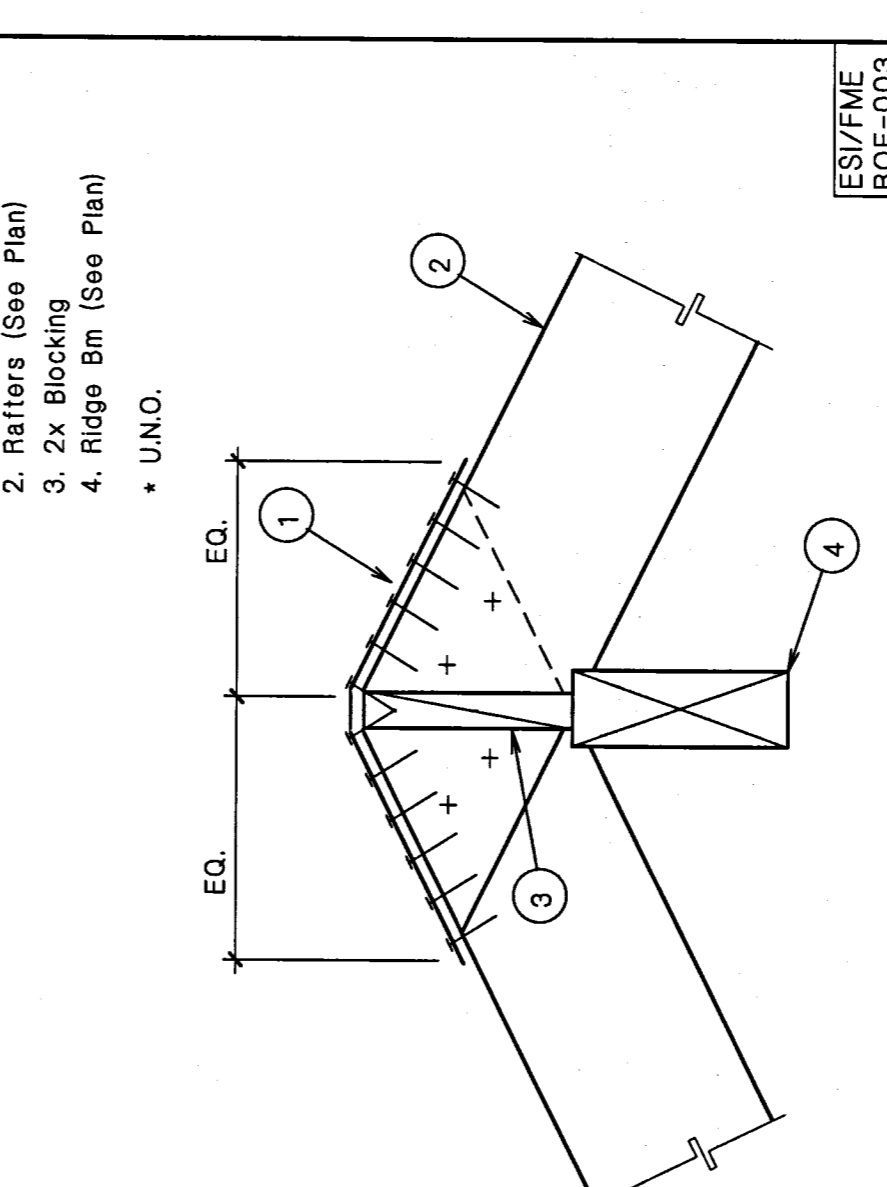
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ES/F/ME SHR-020



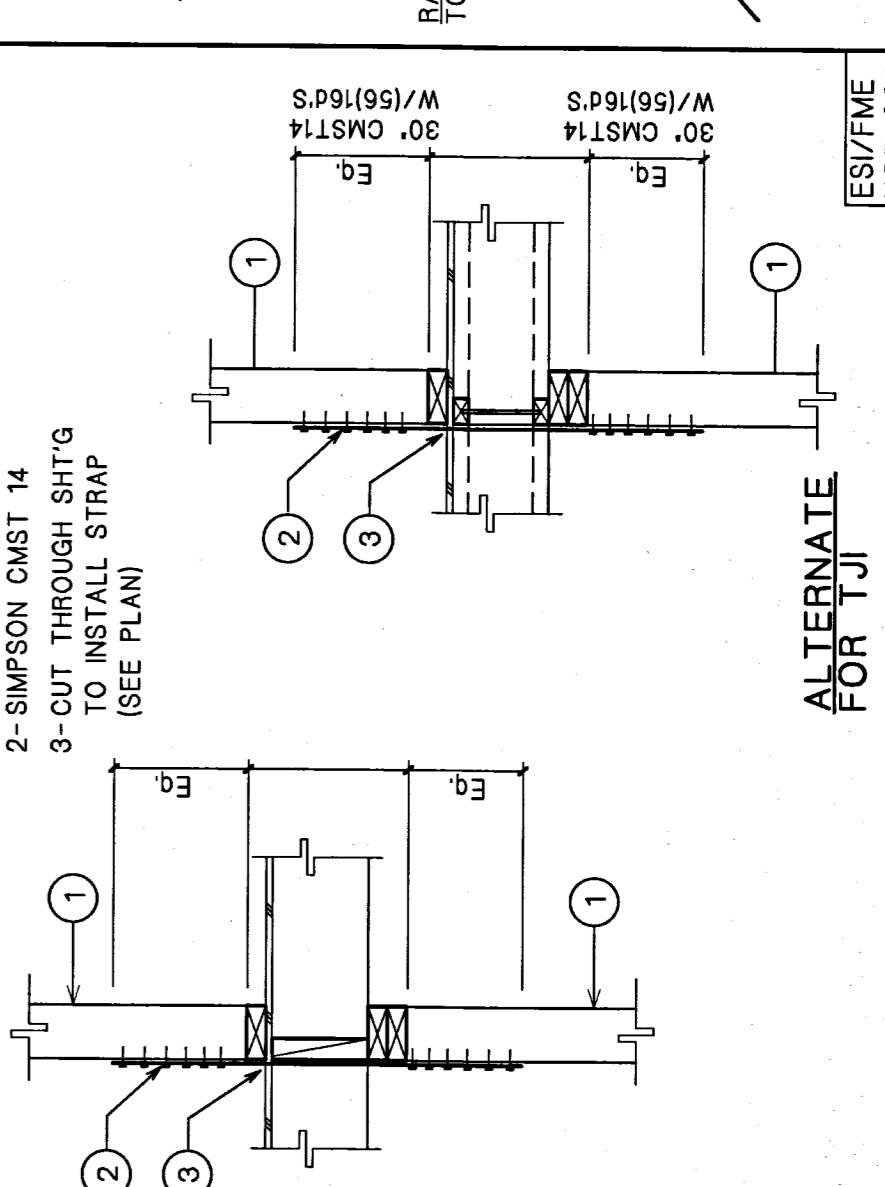
23 DRAG CONNECTION

ES/F/ME SHR-013
ES/F/ME SHR-020



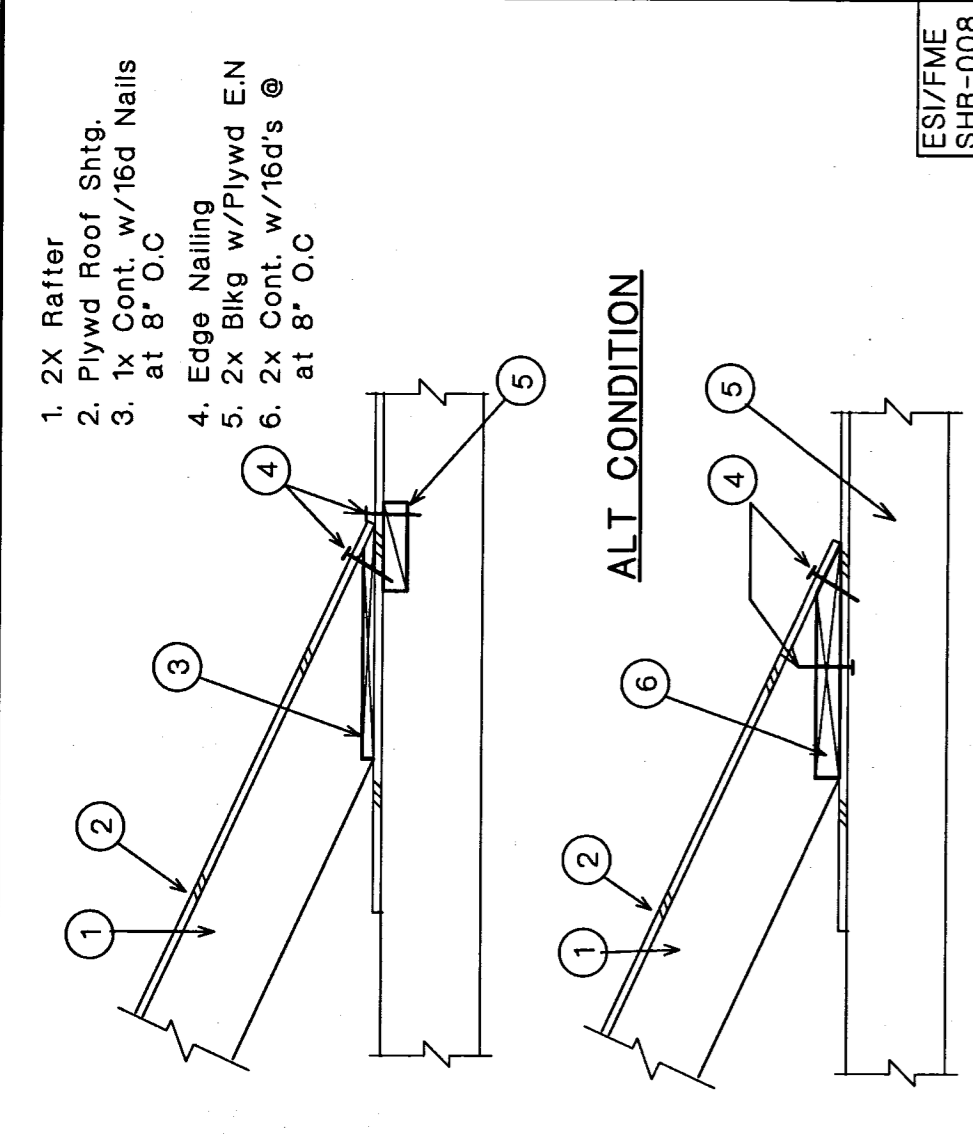
24 RAFTER ON RIDGE BM

ES/F/ME SHR-013
ES/F/ME SHR-020



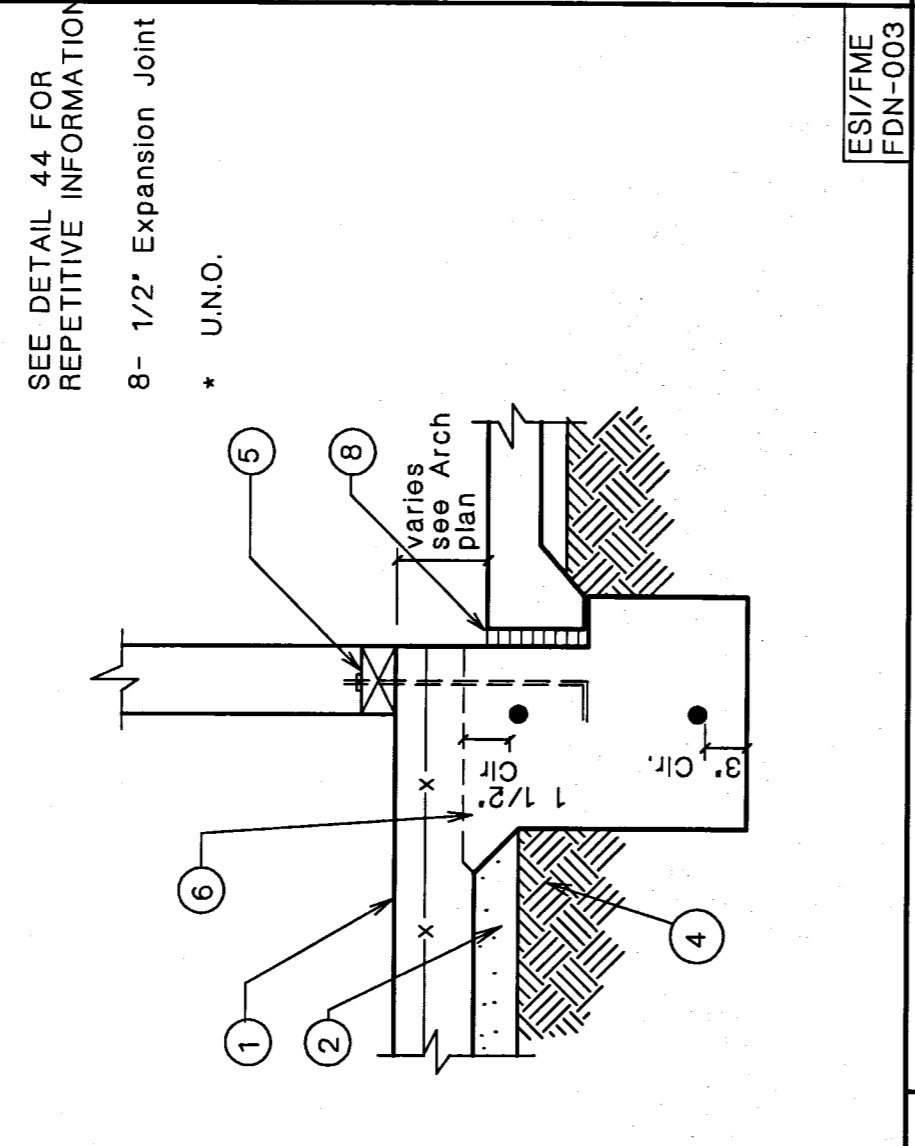
25 POST TO POST HOLDDOWN

ES/F/ME SHR-013
ES/F/ME SHR-020



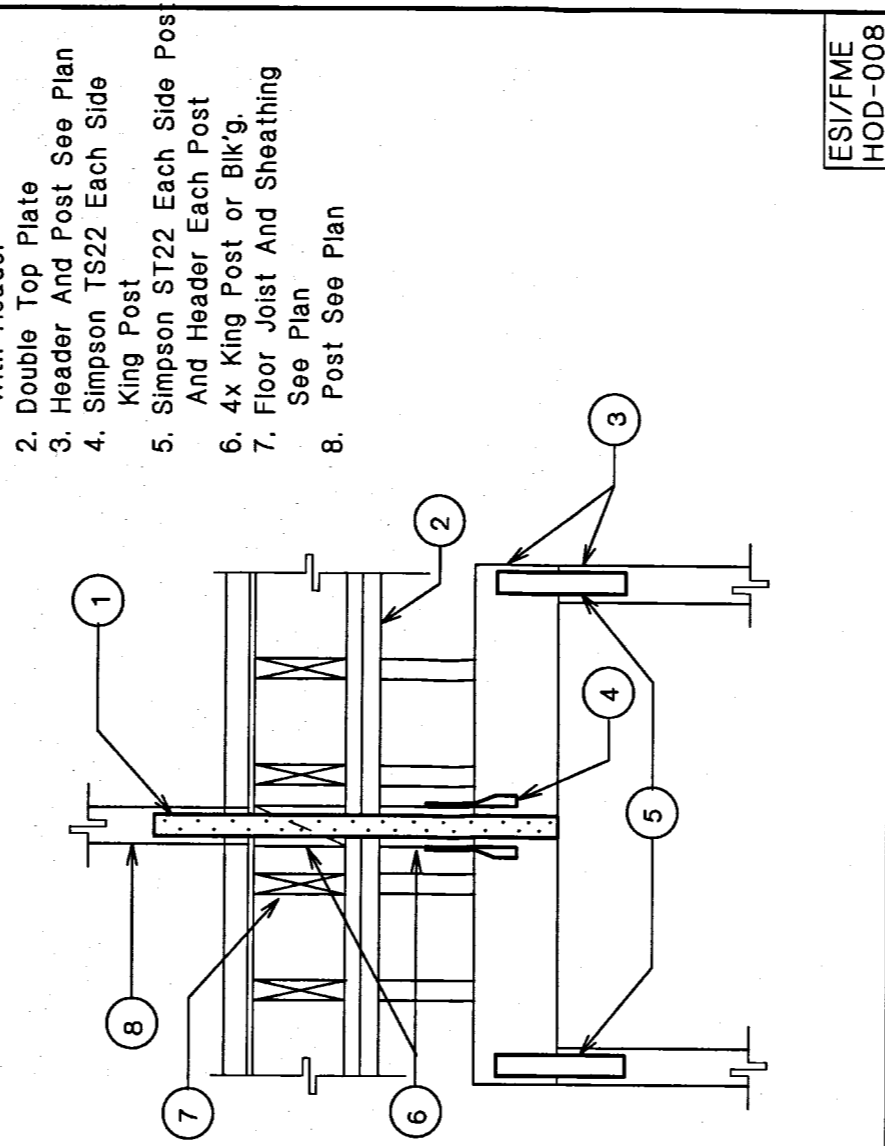
16 SHEAR TRANSFER

ES/F/ME SHR-035
ES/F/ME SHR-020



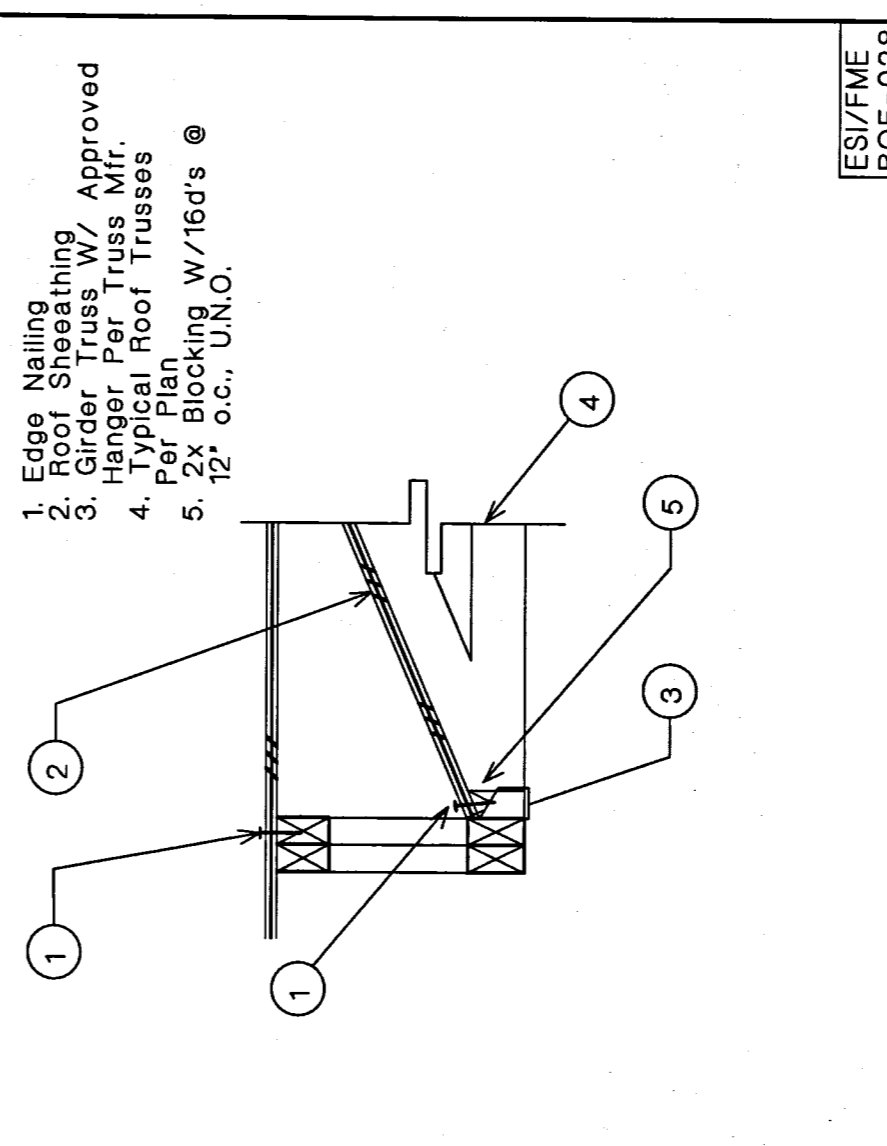
17 HOUSE TO GARAGE FOOTING

ES/F/ME HDN-003
ES/F/ME SHR-020



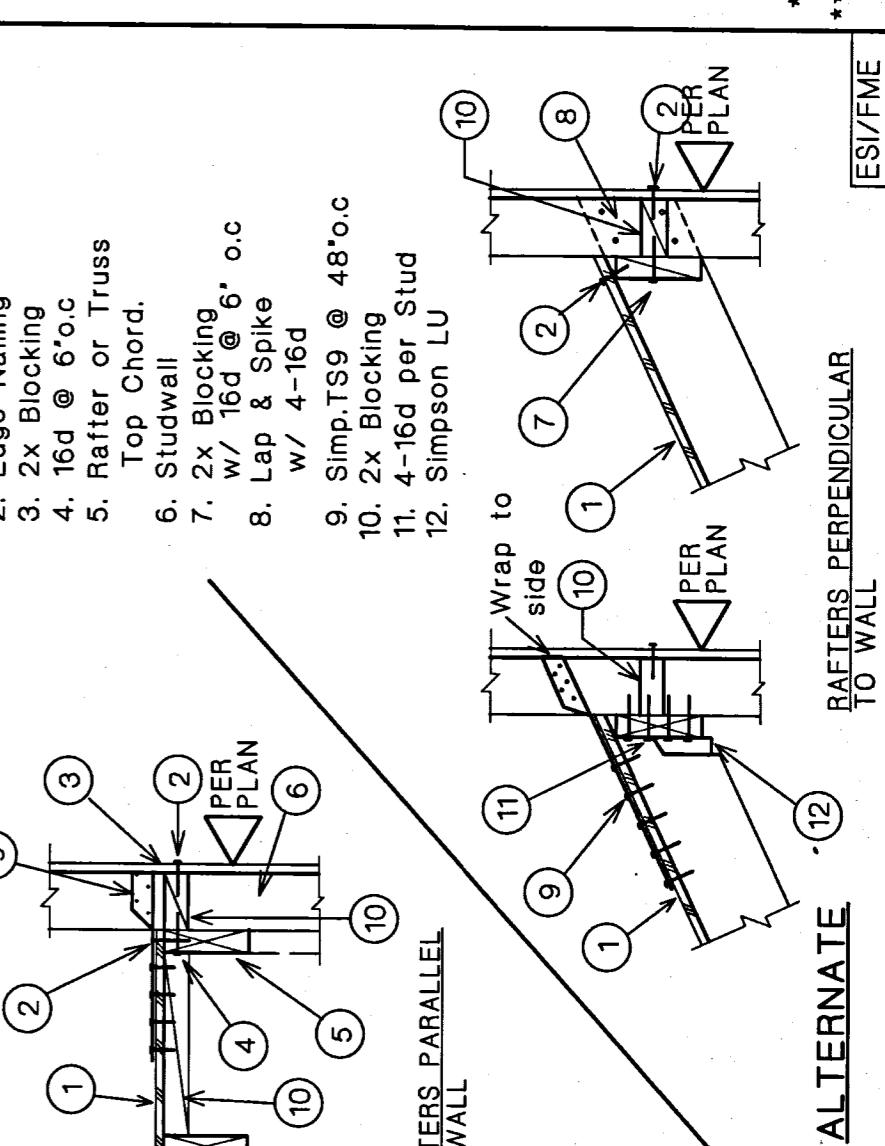
18 BEAM POCKET DRAG CONNECTION

ES/F/ME HDN-008
ES/F/ME SHR-020



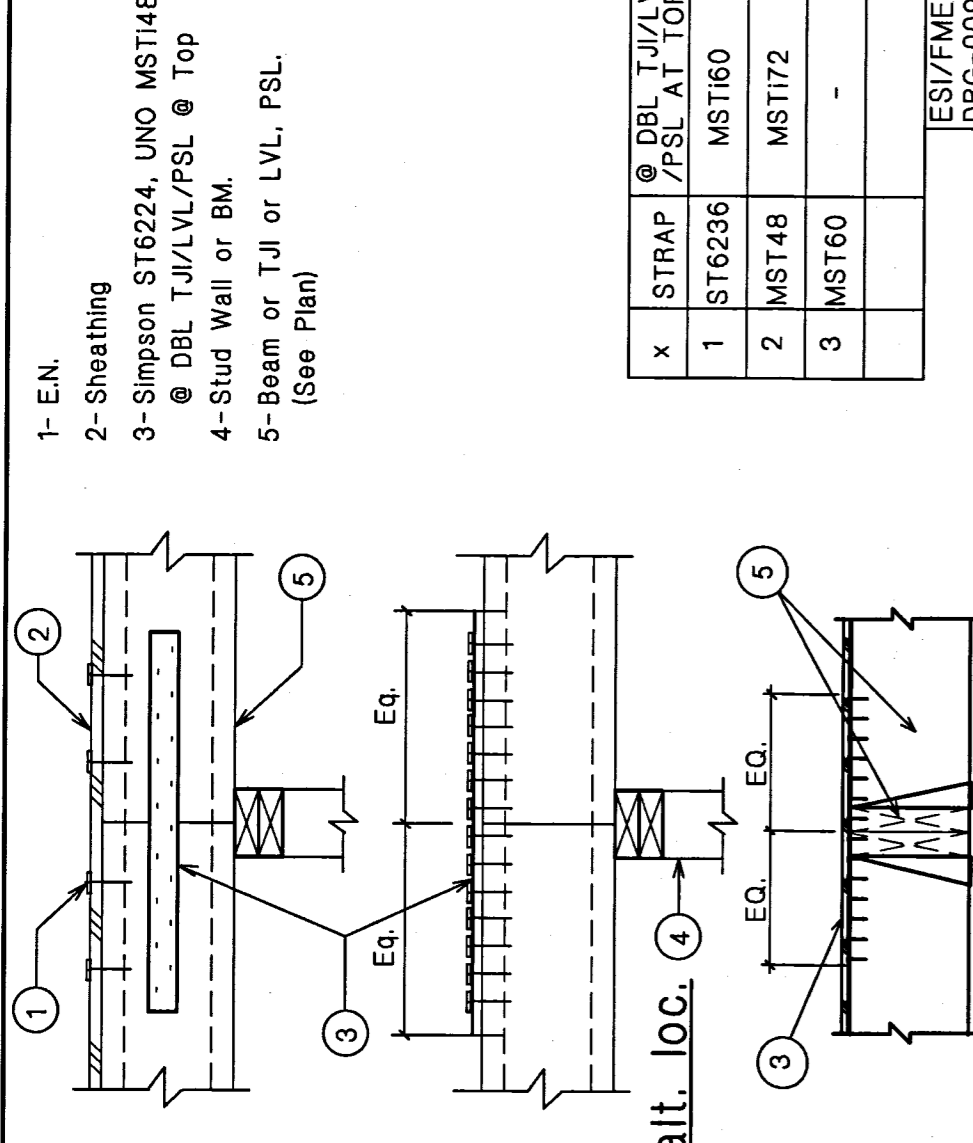
19 ROOF CONNECTION

ES/F/ME SHR-022
ES/F/ME SHR-020



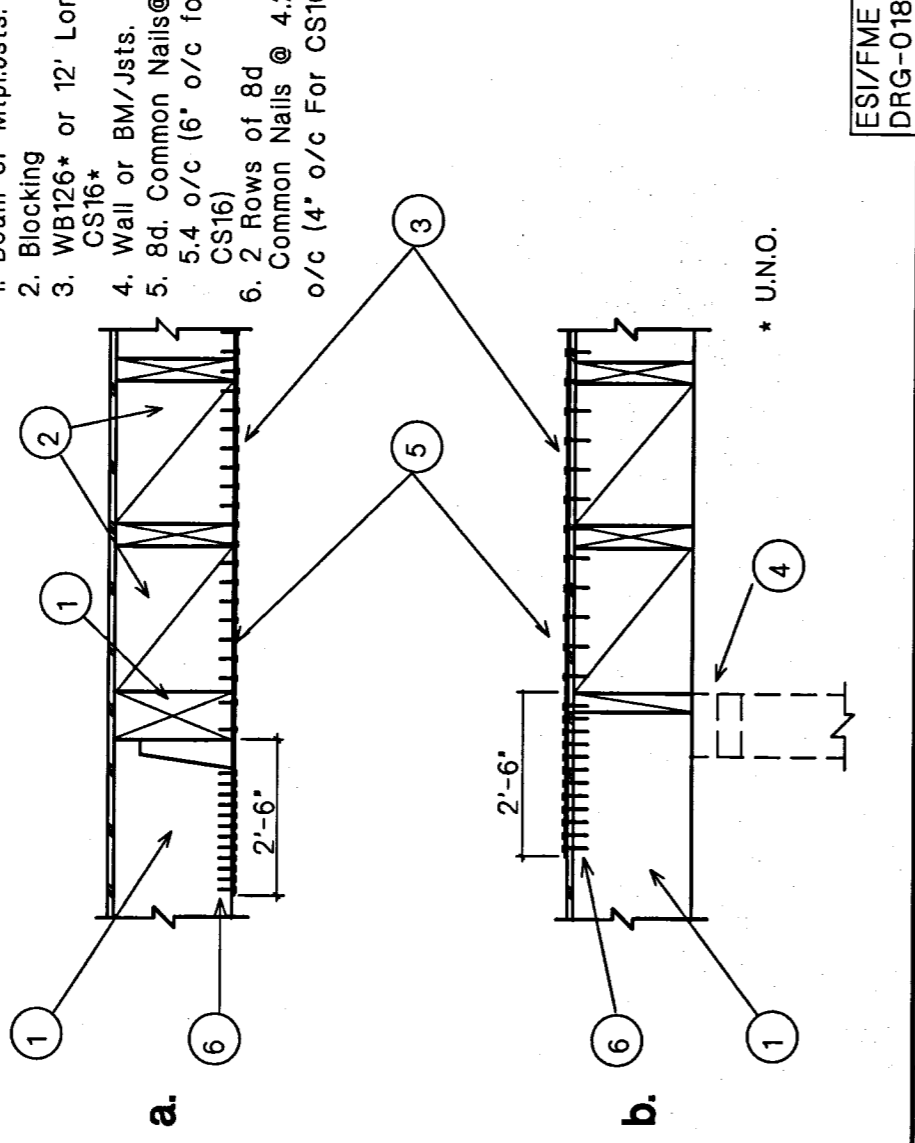
20 ROOF TO WALL SHEAR TRANSFER

ES/F/ME SHR-022
ES/F/ME SHR-020



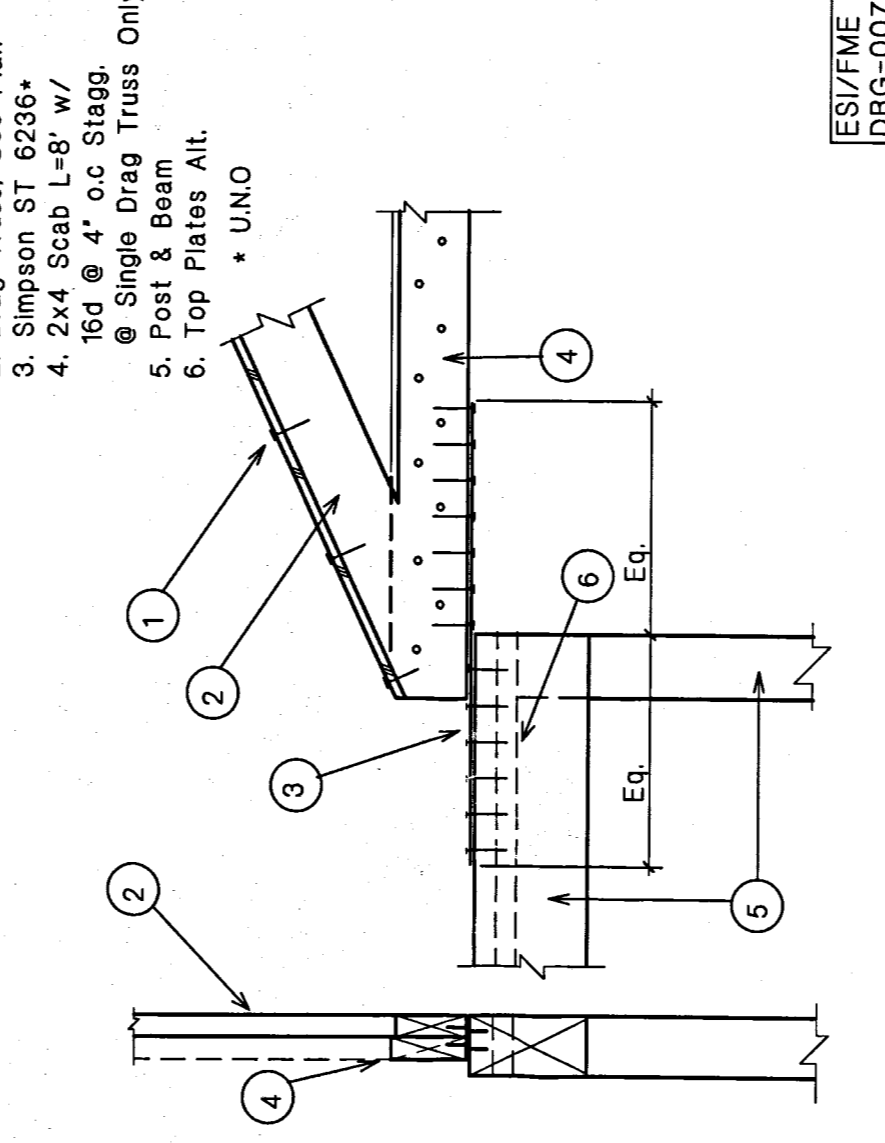
11 JOIST DRAG STRUT

ES/F/ME DRG-038
ES/F/ME SHR-020



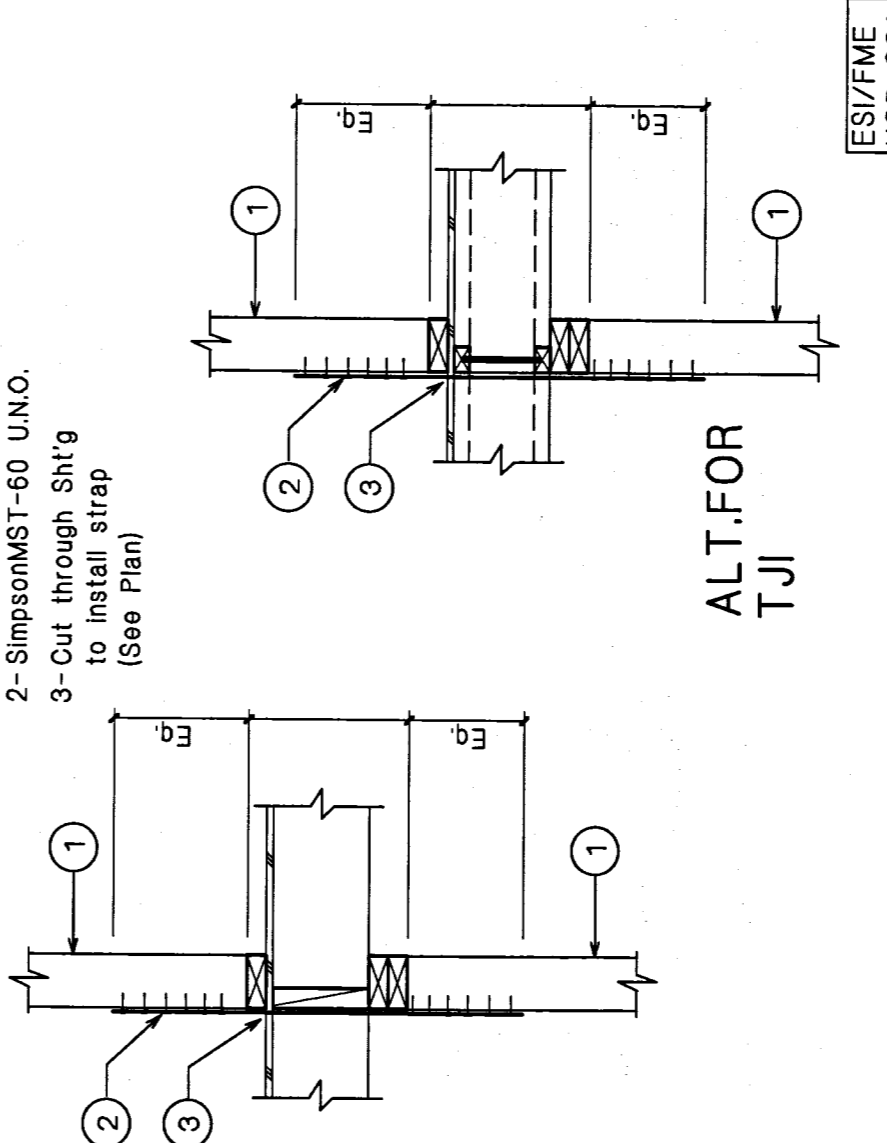
12 INTERRUPTED DRAGS

ES/F/ME DRG-018
ES/F/ME SHR-020



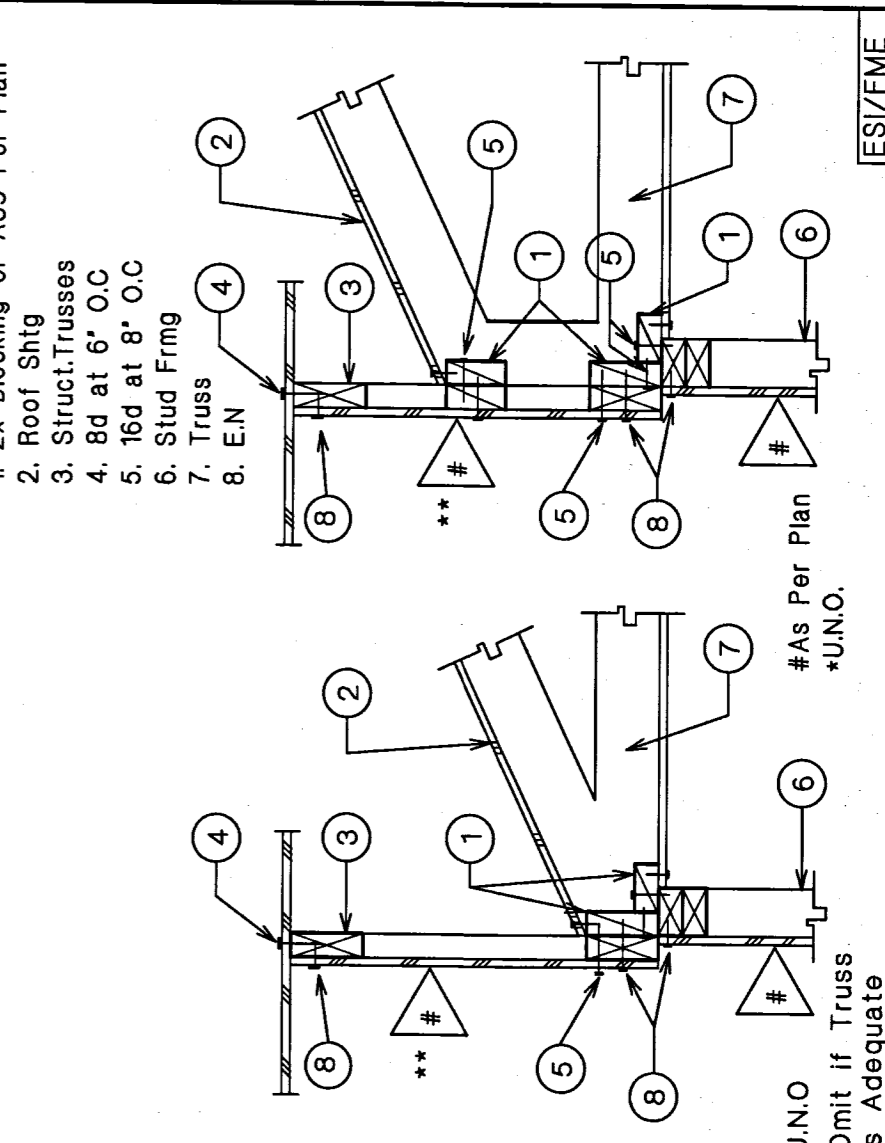
13 DRAG TIE TO TRUSS

ES/F/ME DRG-007
ES/F/ME SHR-020



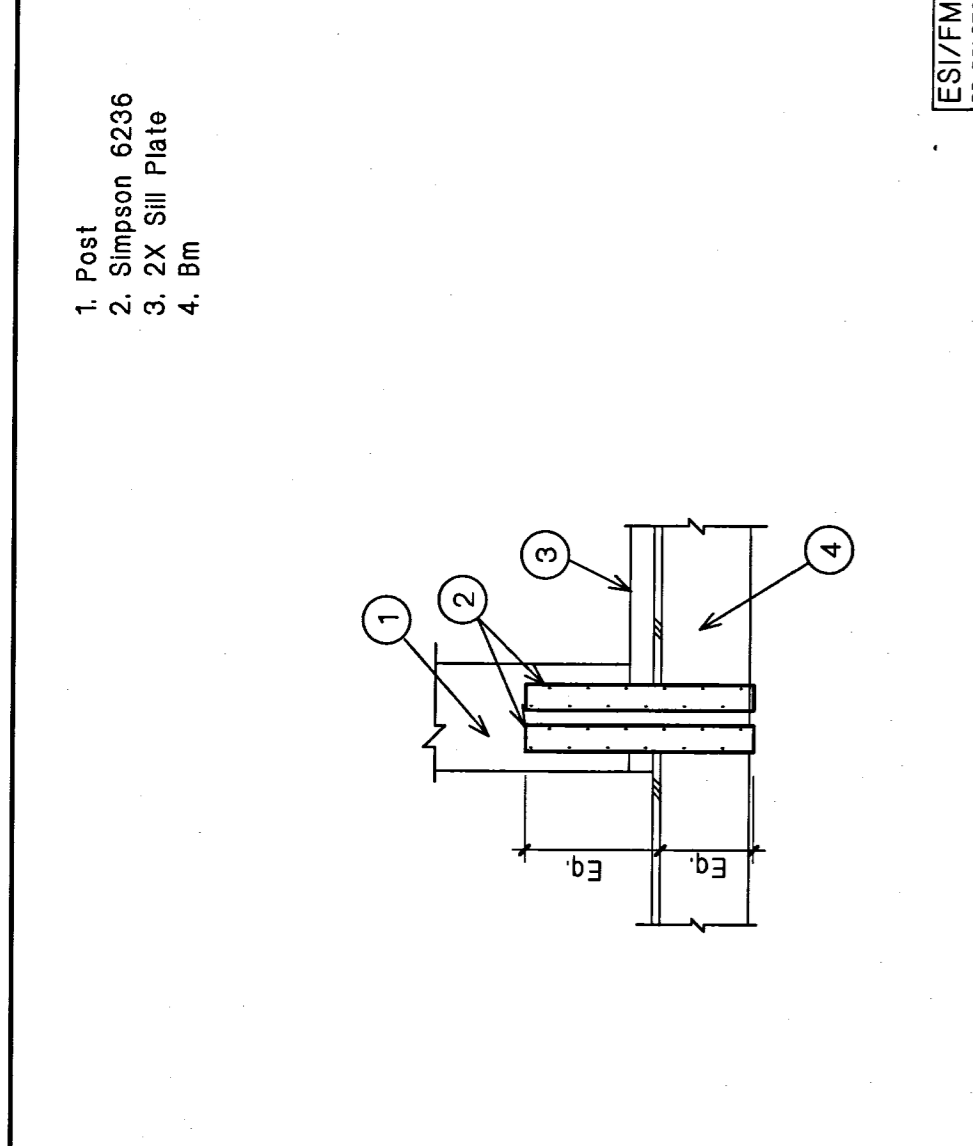
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ES/F/ME HDN-001
ES/F/ME SHR-020



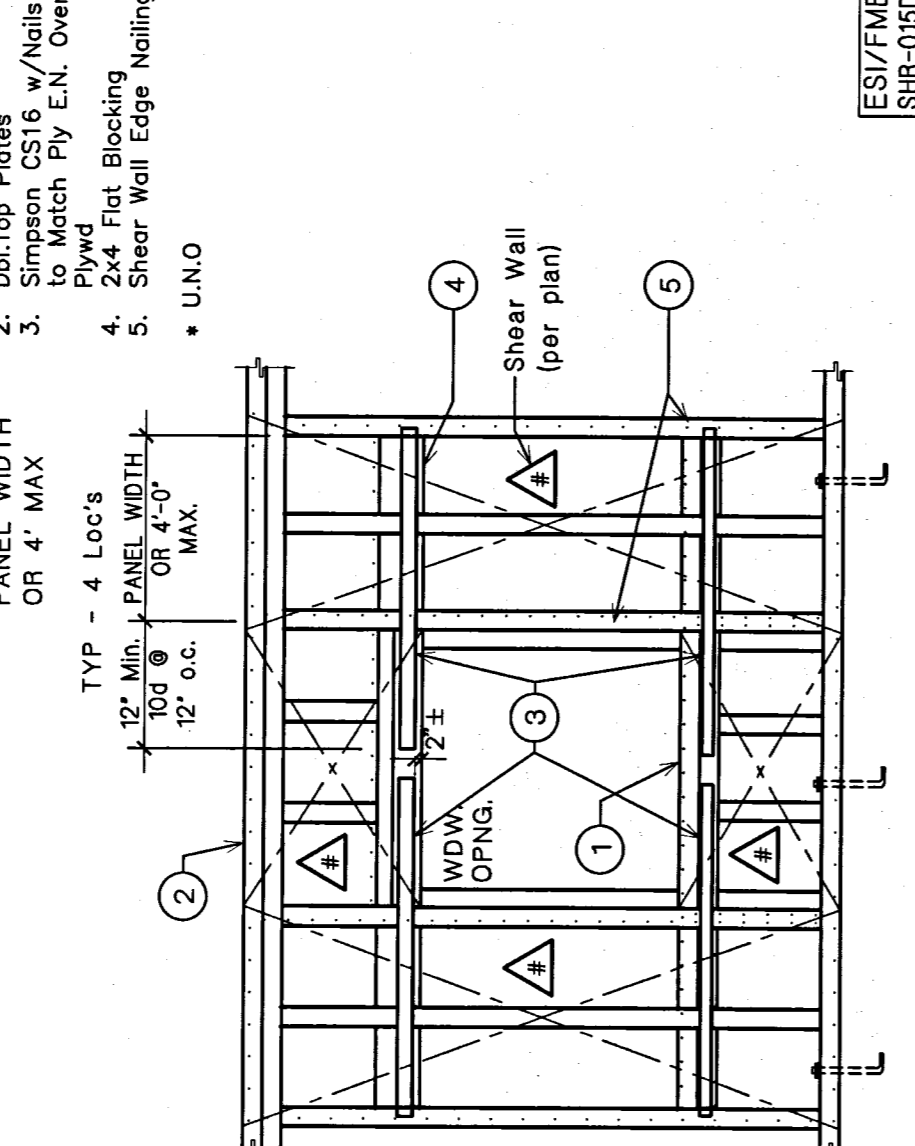
15 SHEAR TRANSFER

ES/F/ME SHR-035
ES/F/ME SHR-020



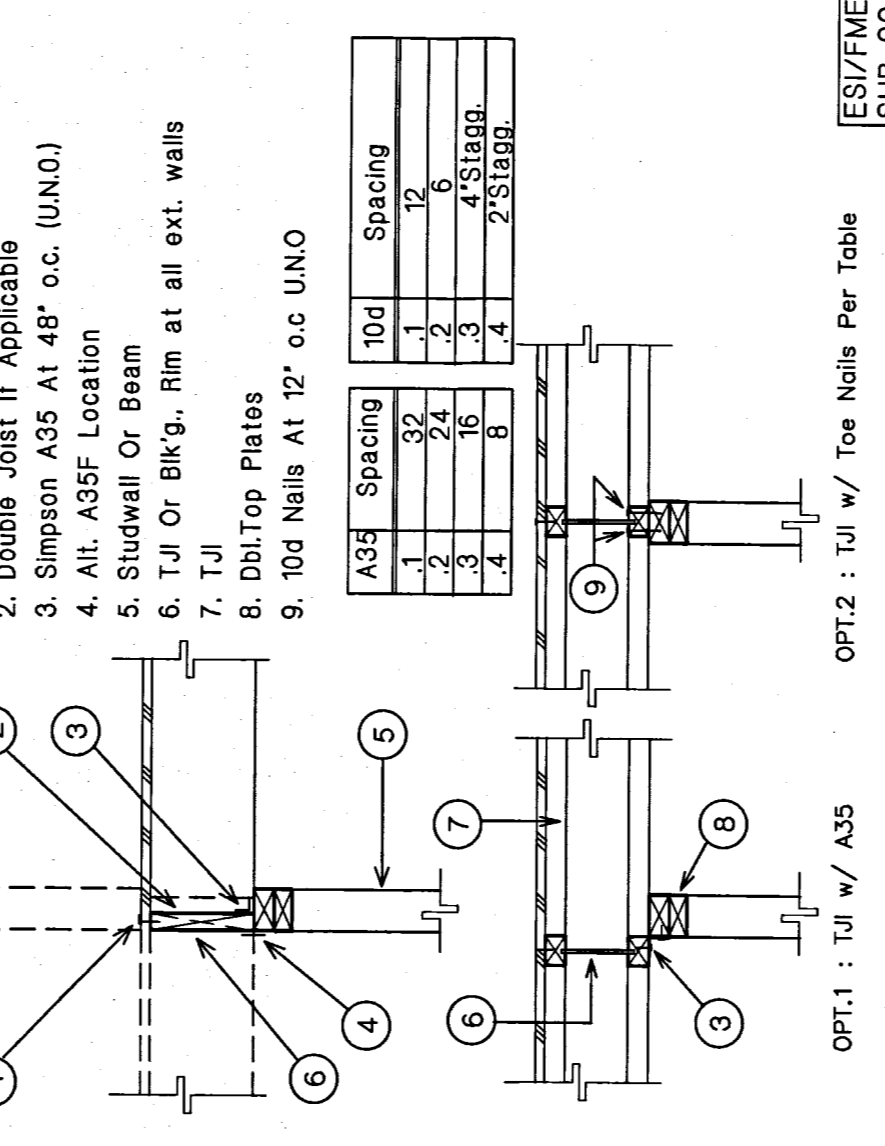
6 TIE DOWN CONNECTION

ES/F/ME SHR-032
ES/F/ME SHR-020



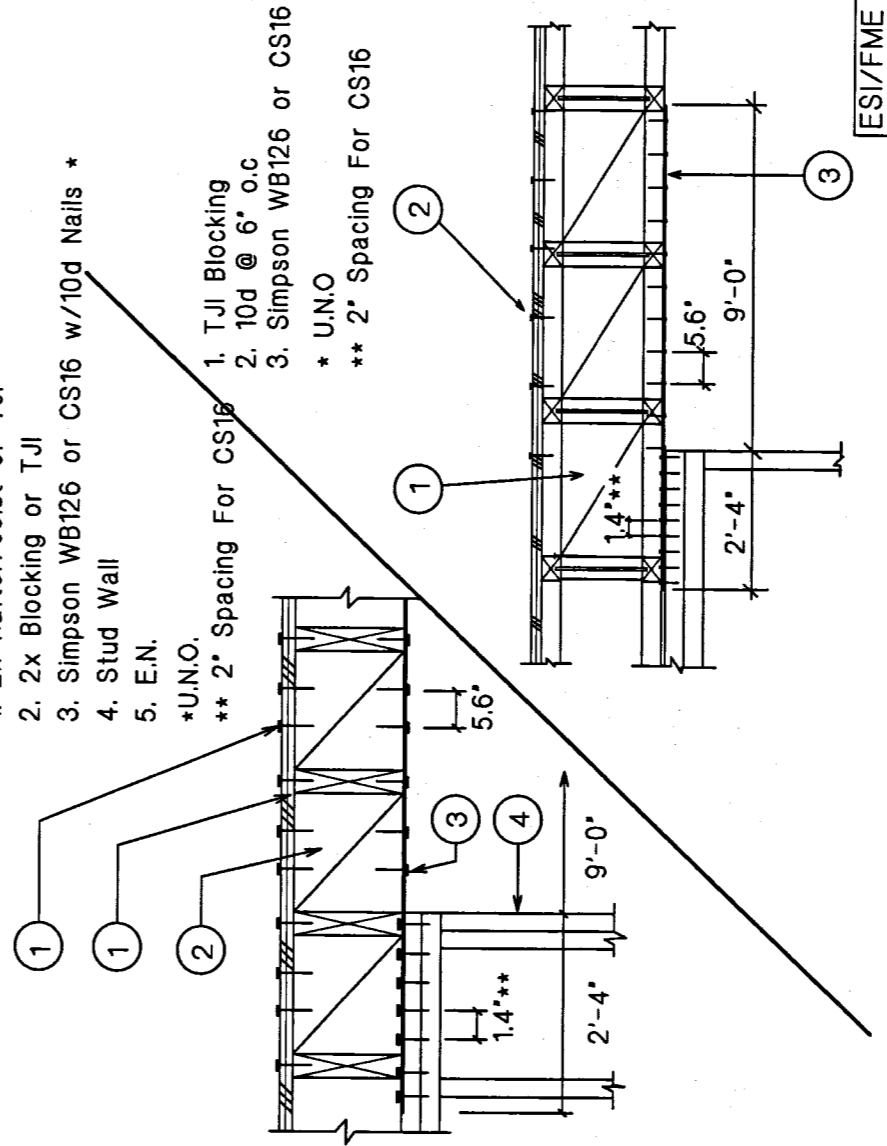
7 SPECIAL SHEAR AT WINDOW OPENING

ES/F/ME SHR-035
ES/F/ME SHR-020



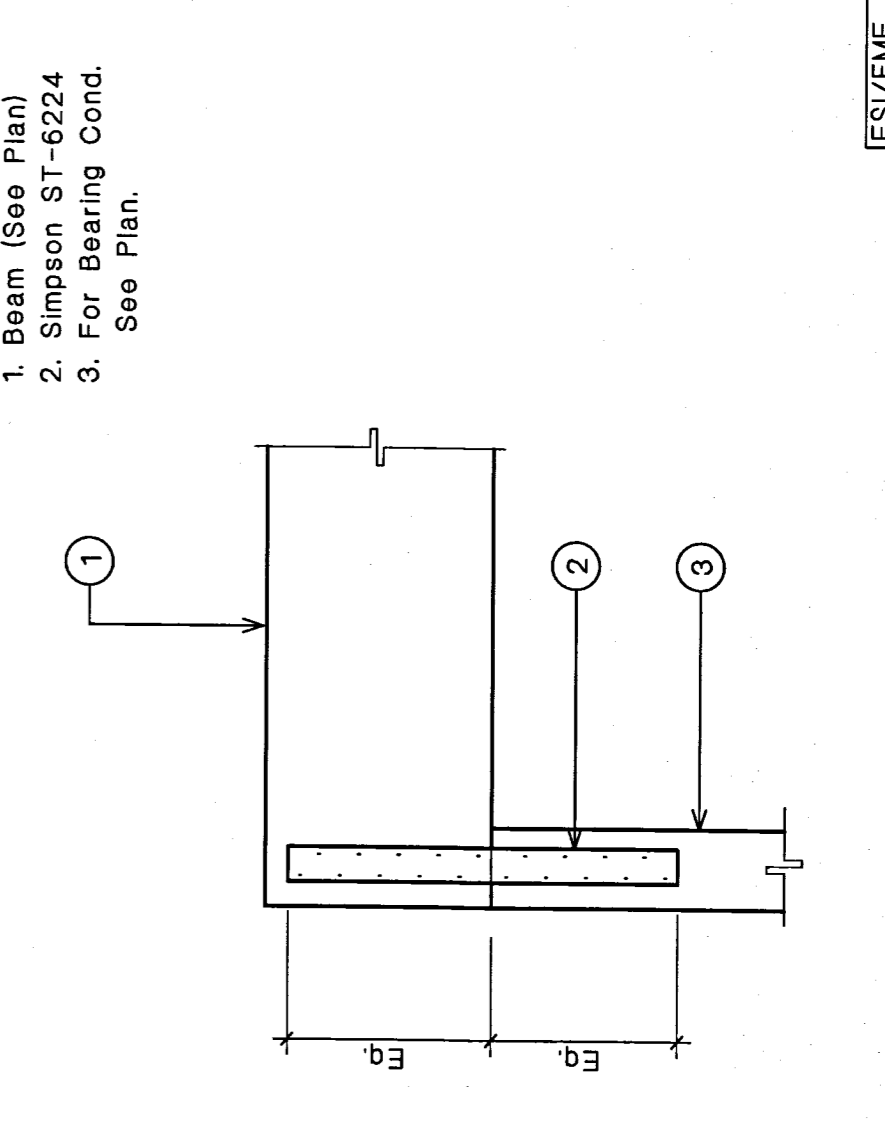
8 JOIST SHEAR CONNECTION

ES/F/ME SHR-004
ES/F/ME SHR-020



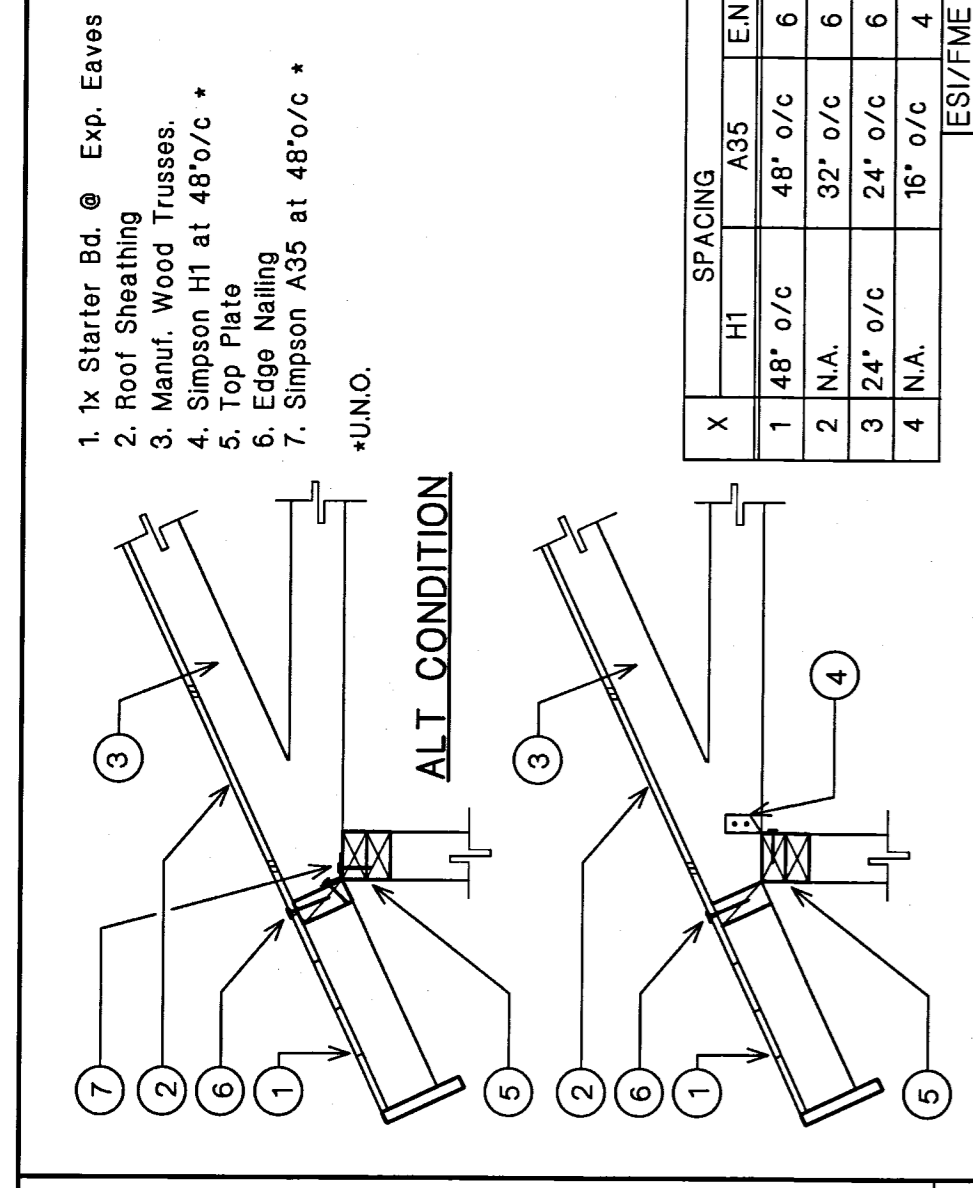
9 PERPENDICULAR DRAG STRUT

ES/F/ME SHR-005
ES/F/ME SHR-020



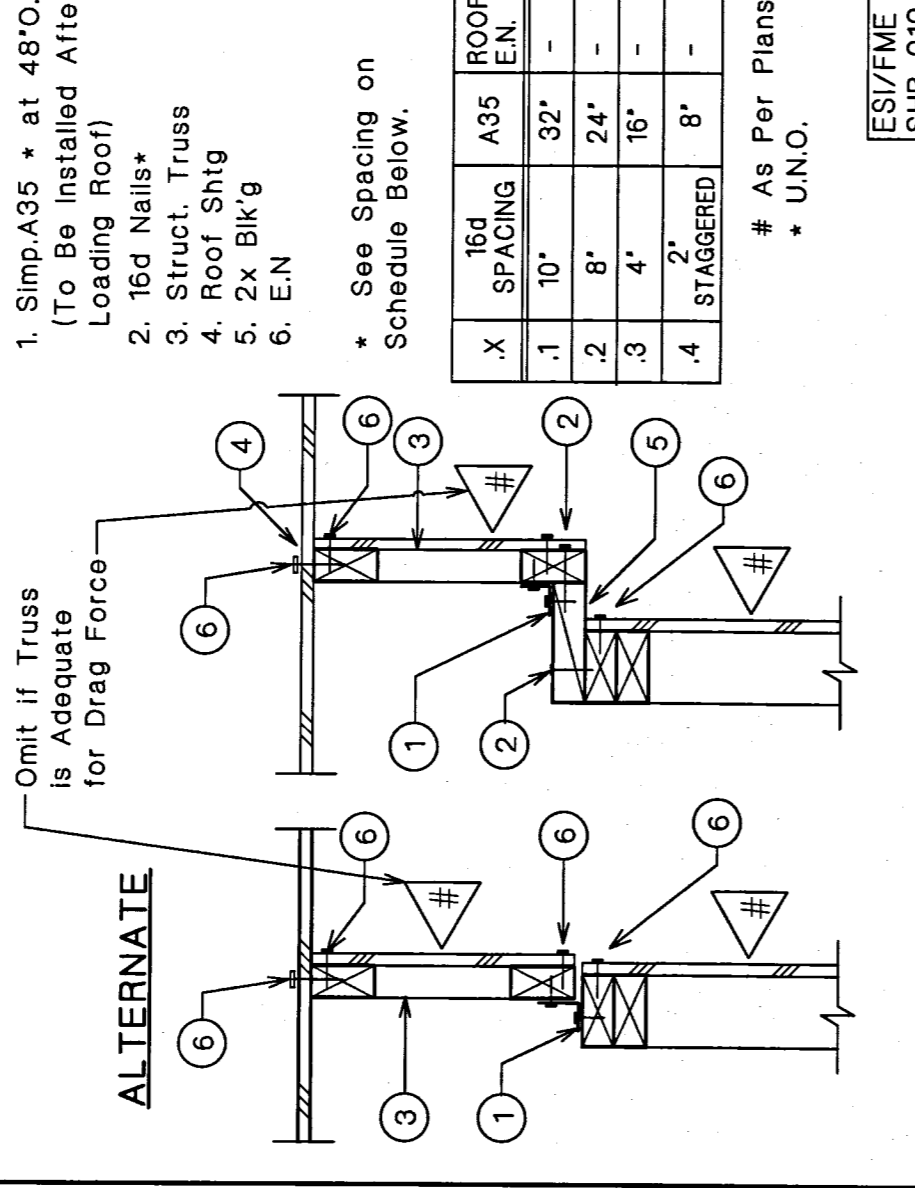
10 BM TO POST CONNECTION

ES/F/ME SHR-005
ES/F/ME SHR-020



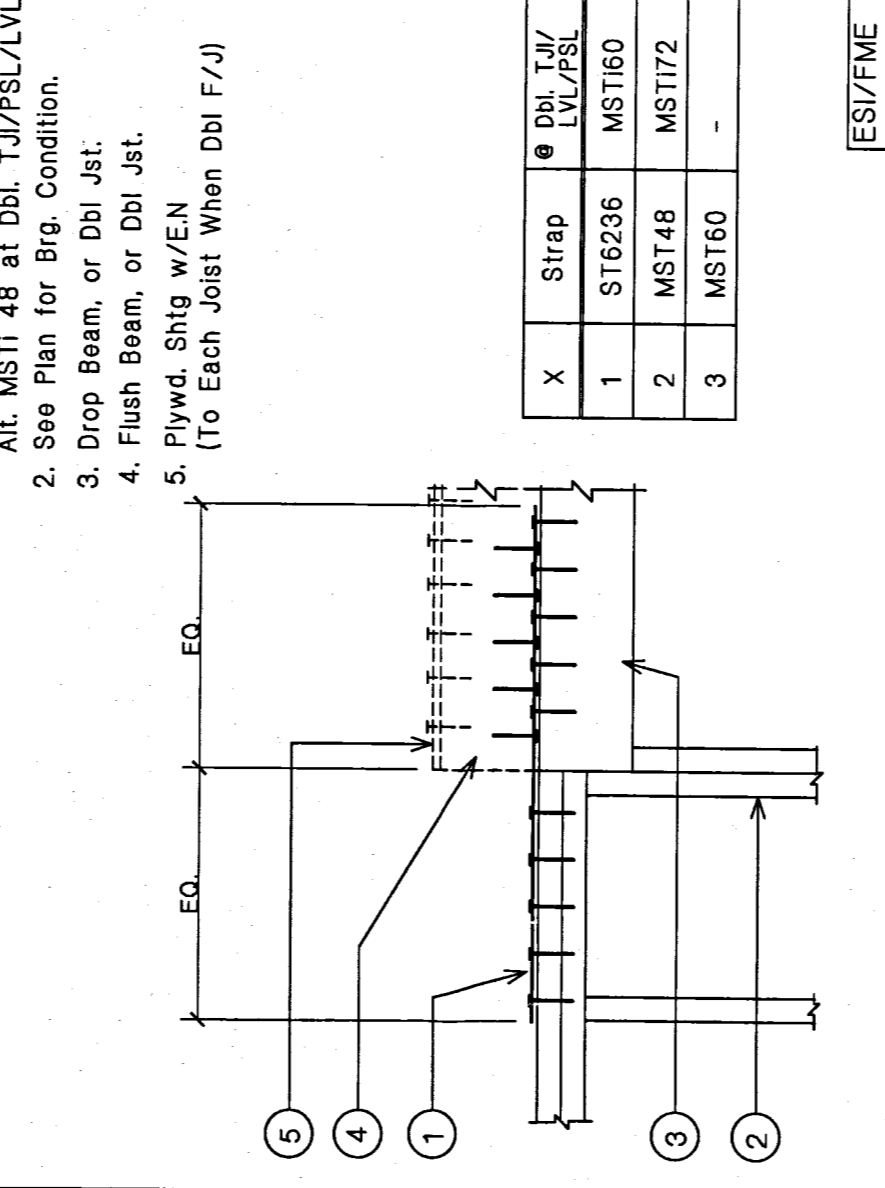
1 EAVE TRUSS SHEAR CONNECTION

ES/F/ME SHR-001
ES/F/ME SHR-020



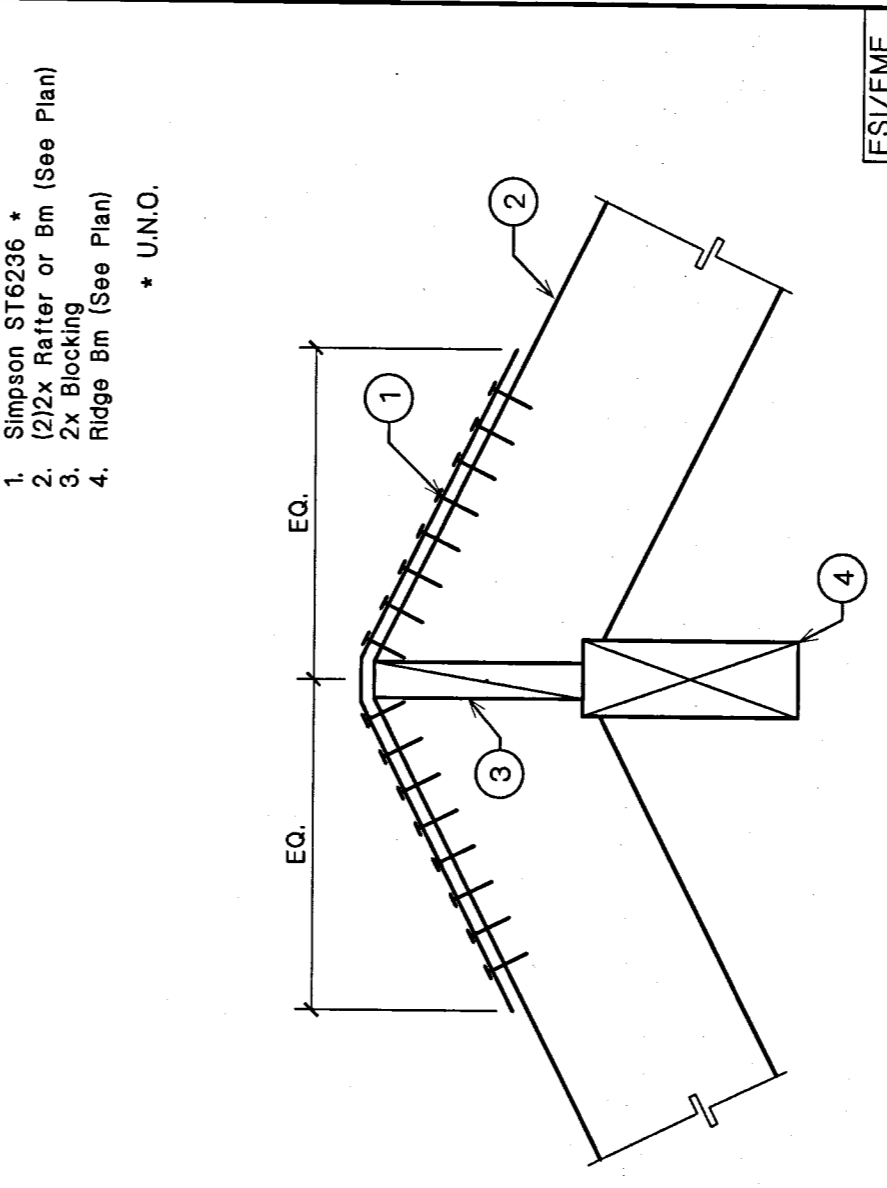
2 DRAG TRUSS SHEAR TRANSFER

ES/F/ME DRG-001
ES/F/ME SHR-020



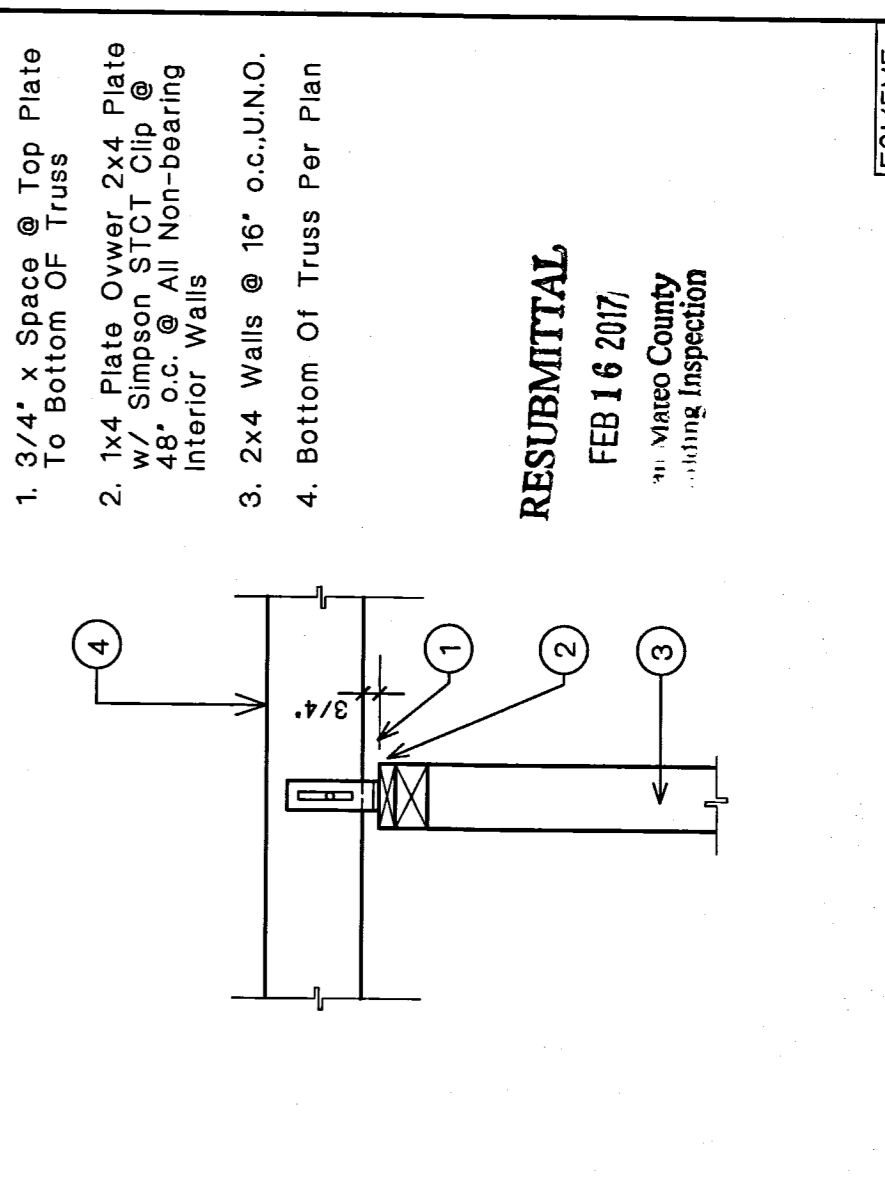
3 DRAG DETAIL

ES/F/ME DRG-002
ES/F/ME SHR-020



4 DRAG CONNECTION

ES/F/ME SHR-002
ES/F/ME SHR-020



5 NON-BEARING WALL CONNECTION

ES/F/ME SHR-002
ES/F/ME SHR-020

REVISIONS

ES/F/ME INC.
STRUCTURAL ENGINEERS
3450 20th Street, Suite 100
San Mateo, CA 94403
Tel: (415) 948-1234
Fax: (415) 948-5678
www.esfme.com

STRUCTURAL DETAILS

REVIEWED FOR COMPLIANCE
This Review is not a seal of approval
of State or County Building Department
1-7-12-2020
SAN MATEO CO. BLDG. INSP. DIV.

HIGHLAND ESTATES
SAN MATEO COUNTY, CA
THE CHAMBERLAIN GROUP
MGA

DRAWN: _____
CHECKED: _____
DATE: _____
JOB NO.: _____
SHEET: 6 OF 7

SD1

RESURMITTAL
FEB 16 2017
San Mateo County Building Inspection

NO.	DATE	DESCRIPTION

ES/F/M/E INC.
STRUCTURAL ENGINEERS
9800 E. 16TH ST. STE. B
SANTA ANA, CA 92701
TEL: 714-835-8100
FAX: 714-835-8108
www.esfme.com

**STRUCTURAL
DETAILS
LOT 9**

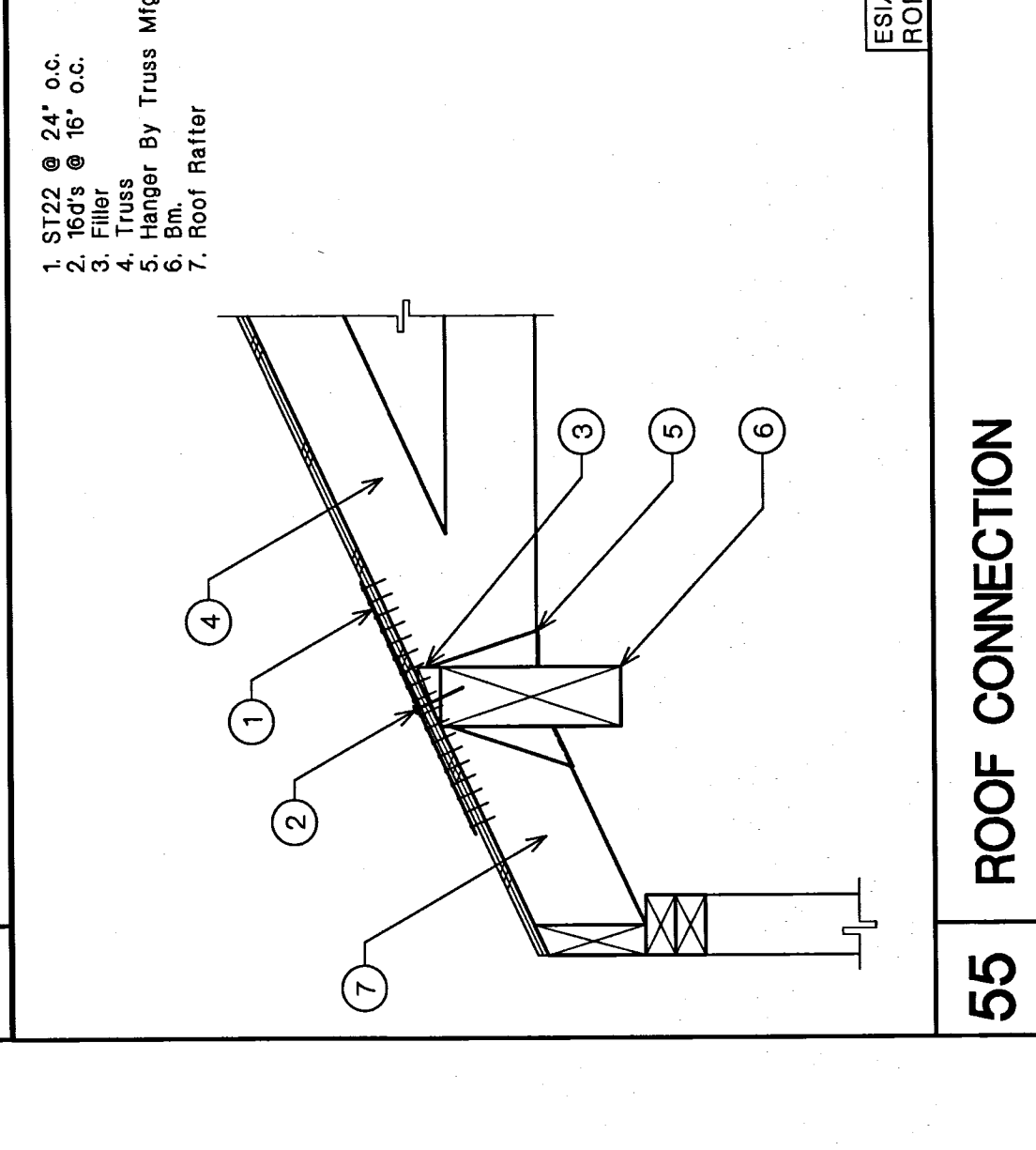
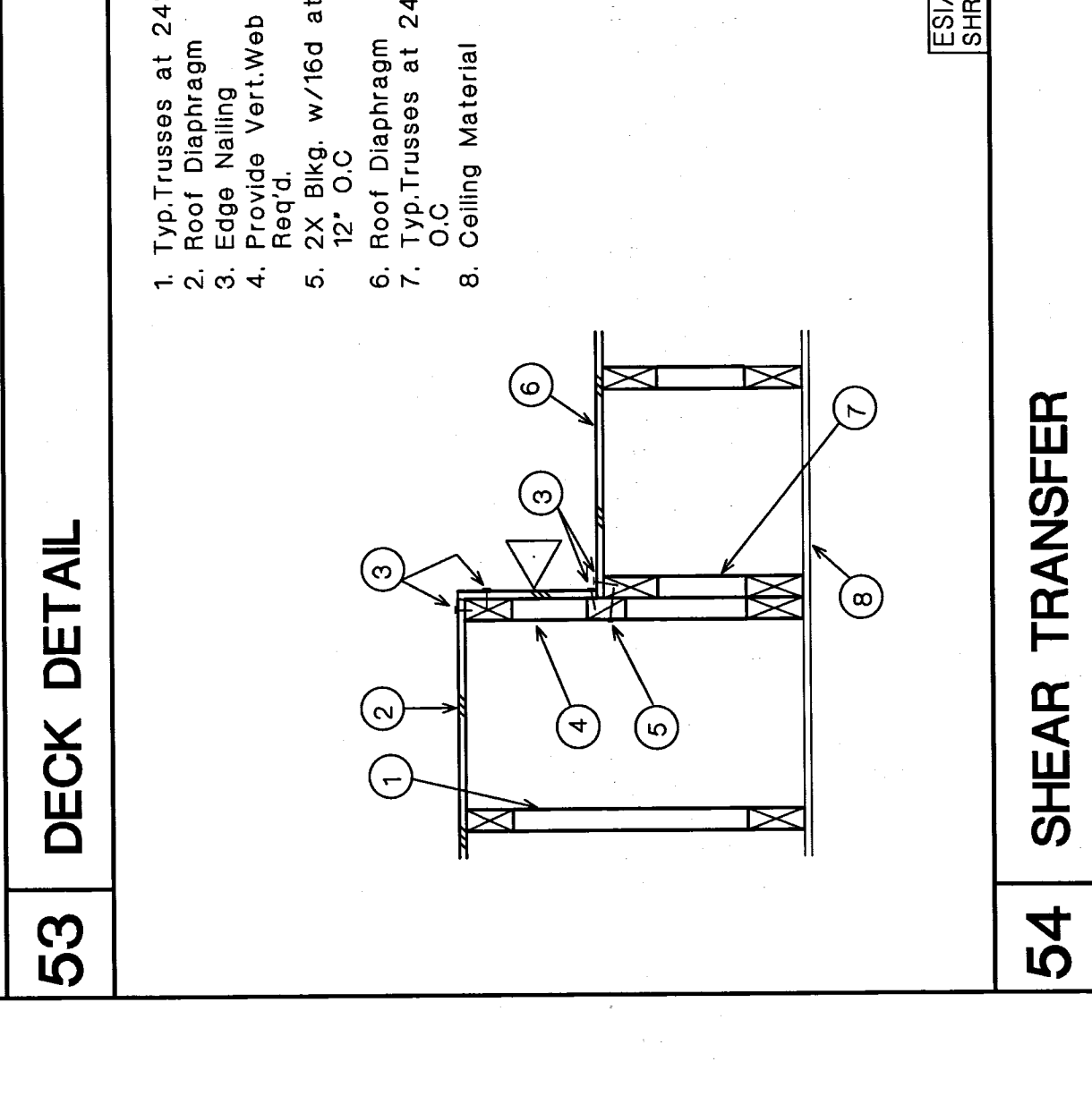
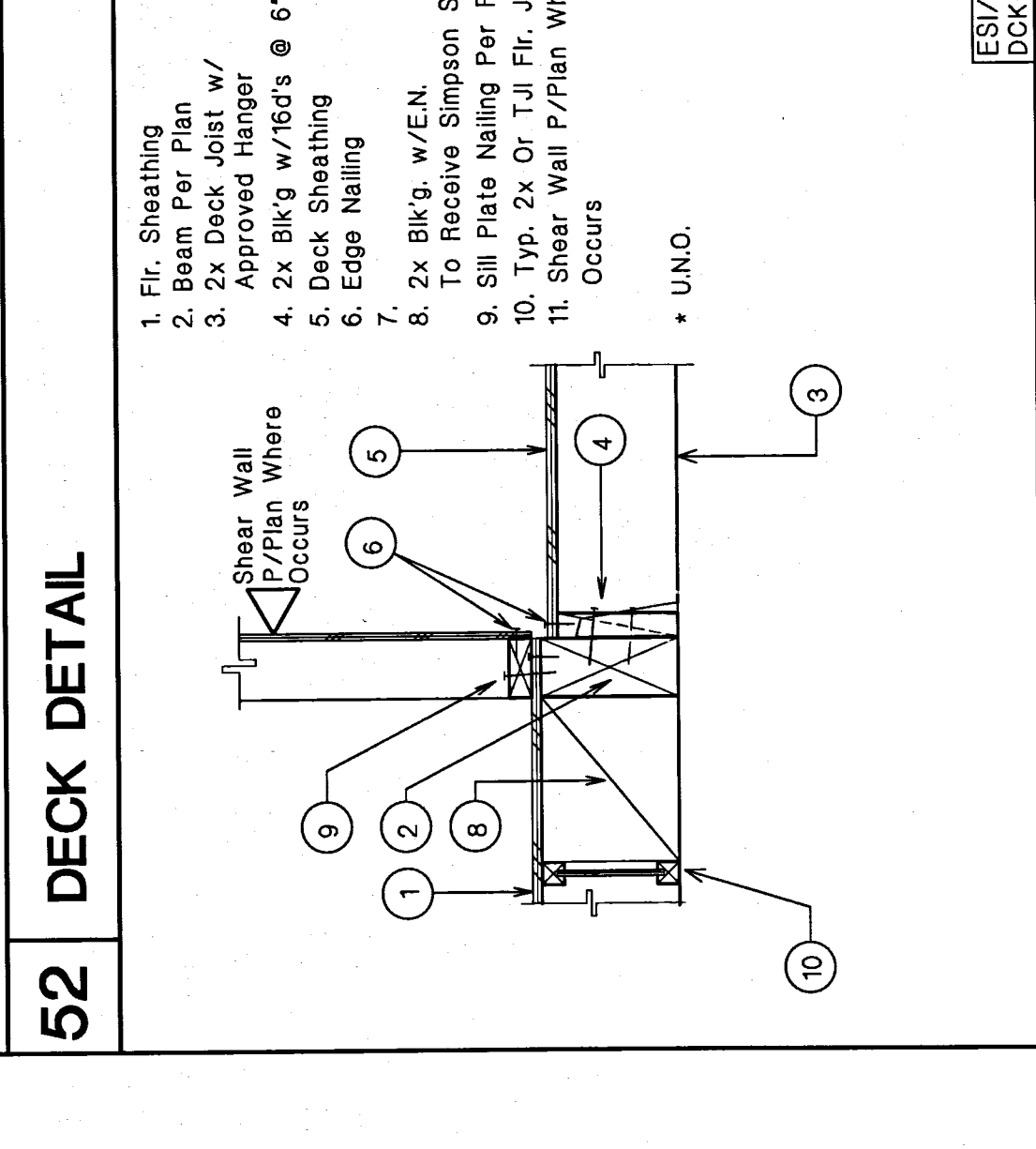
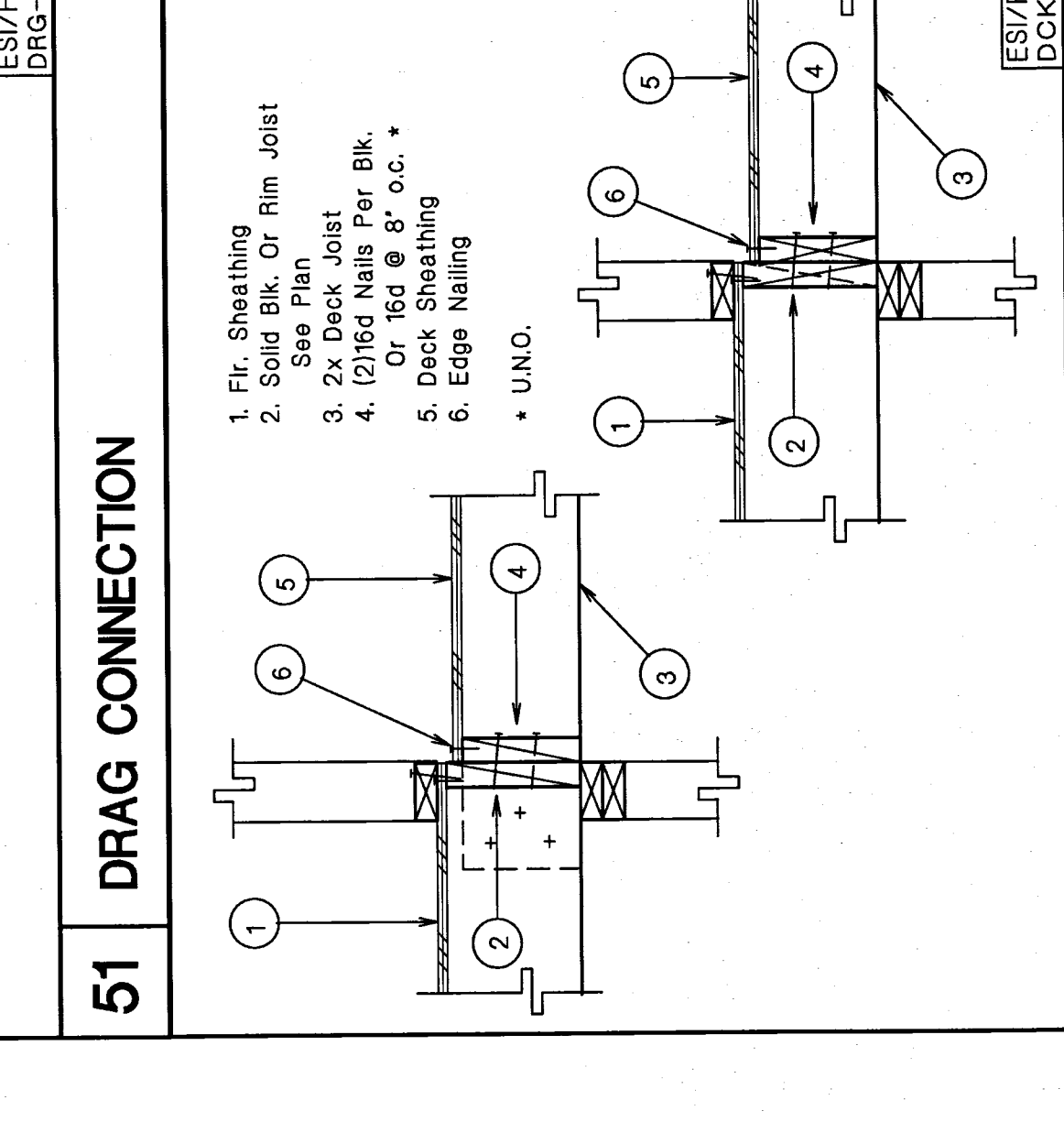
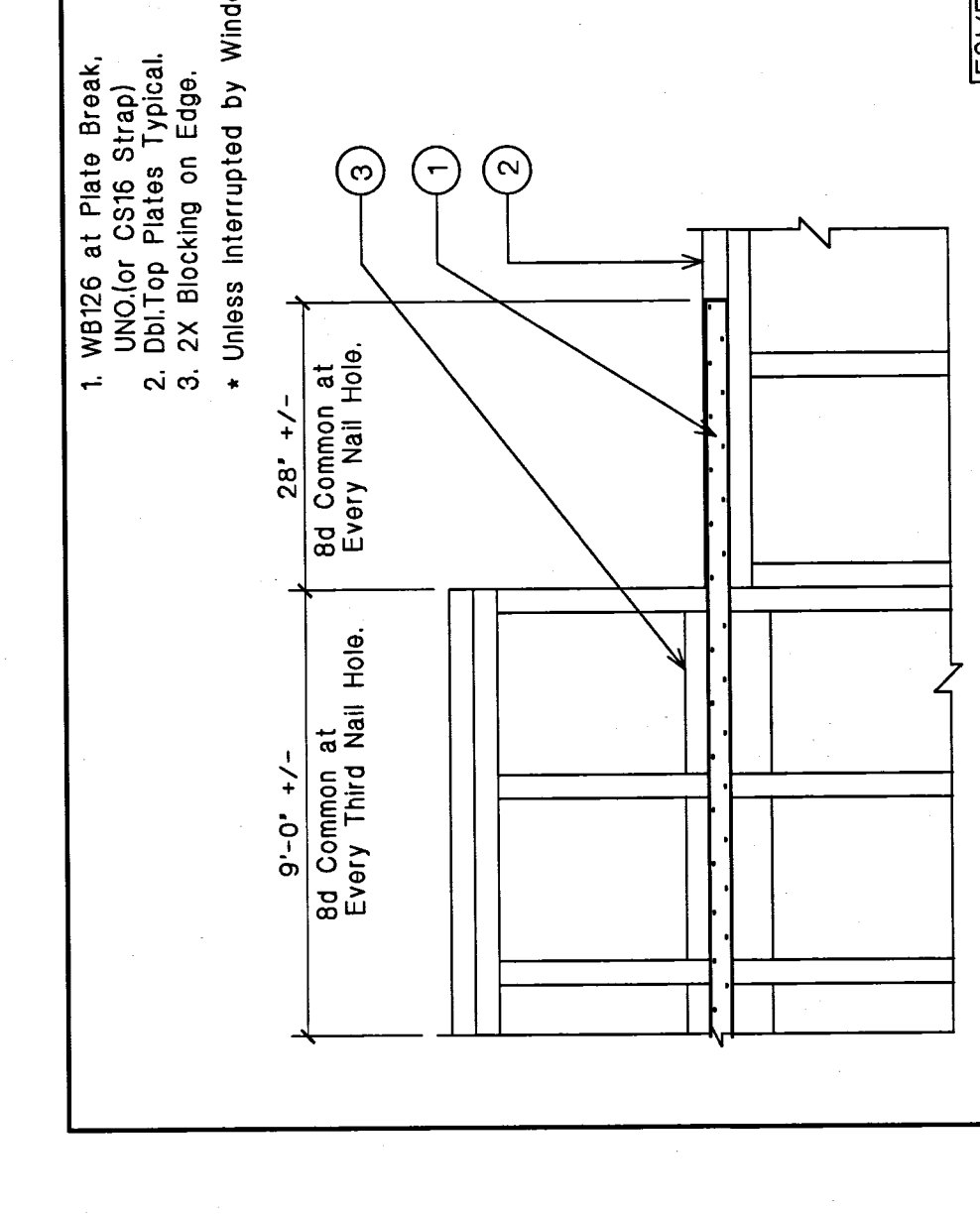
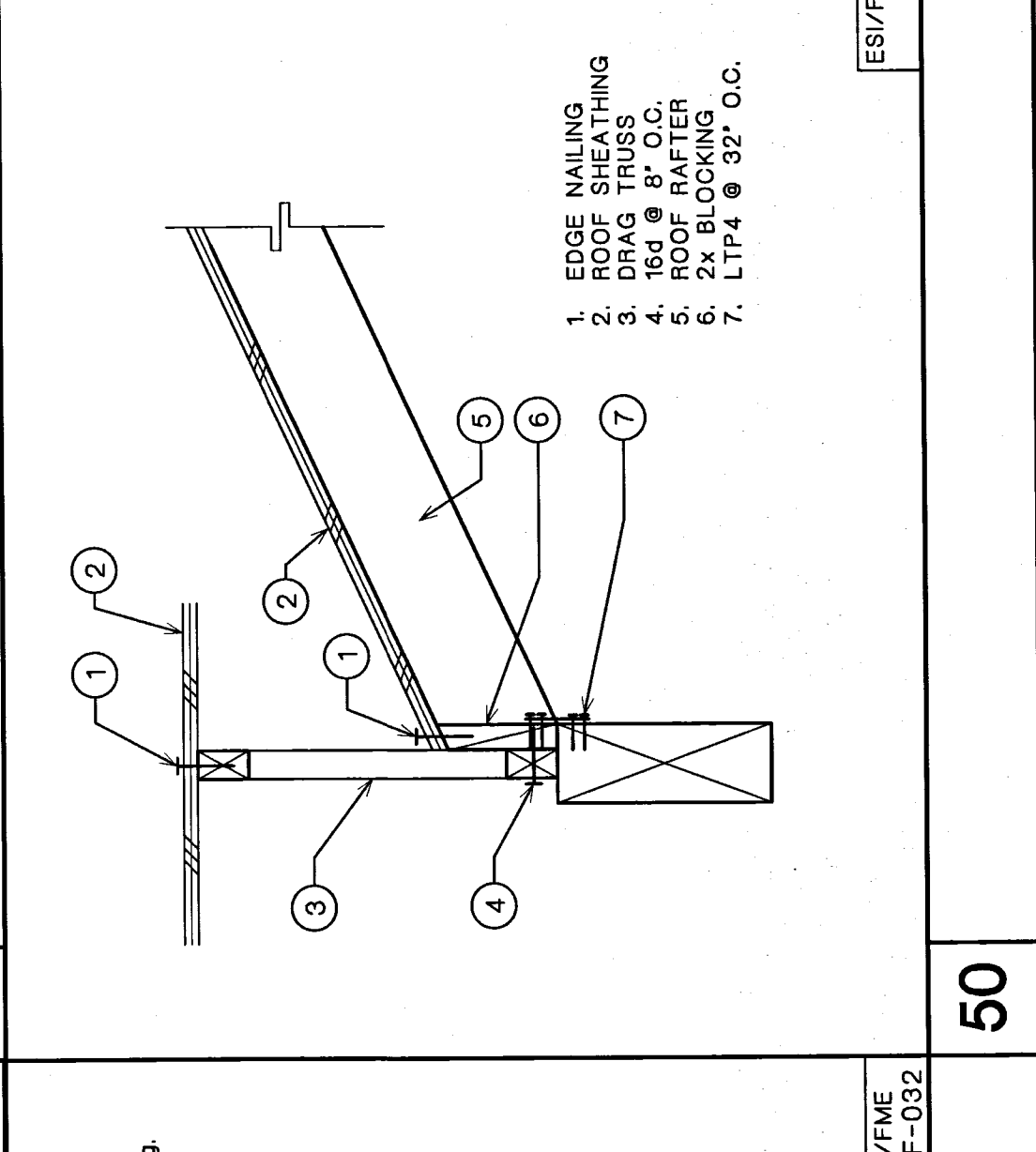
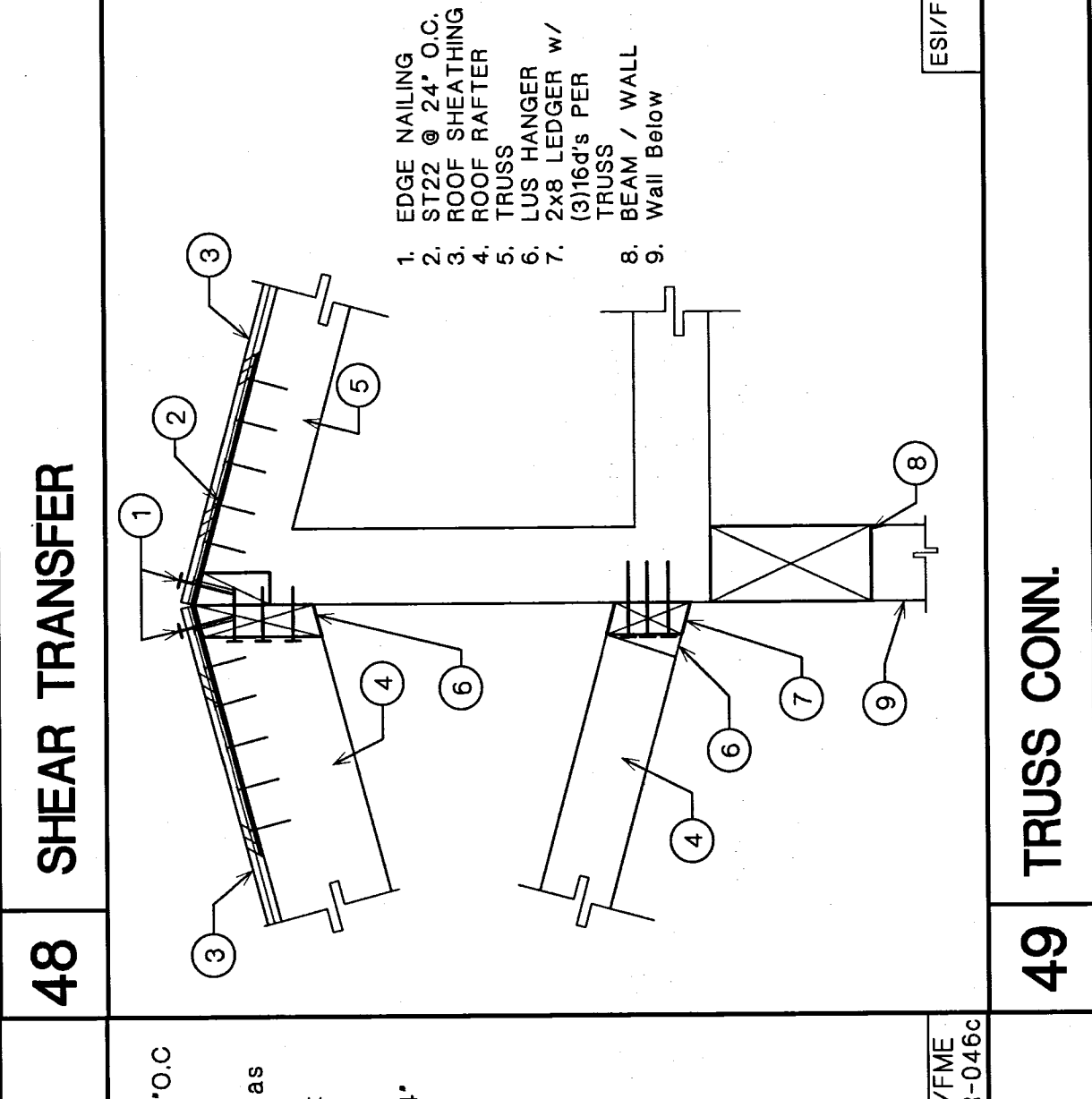
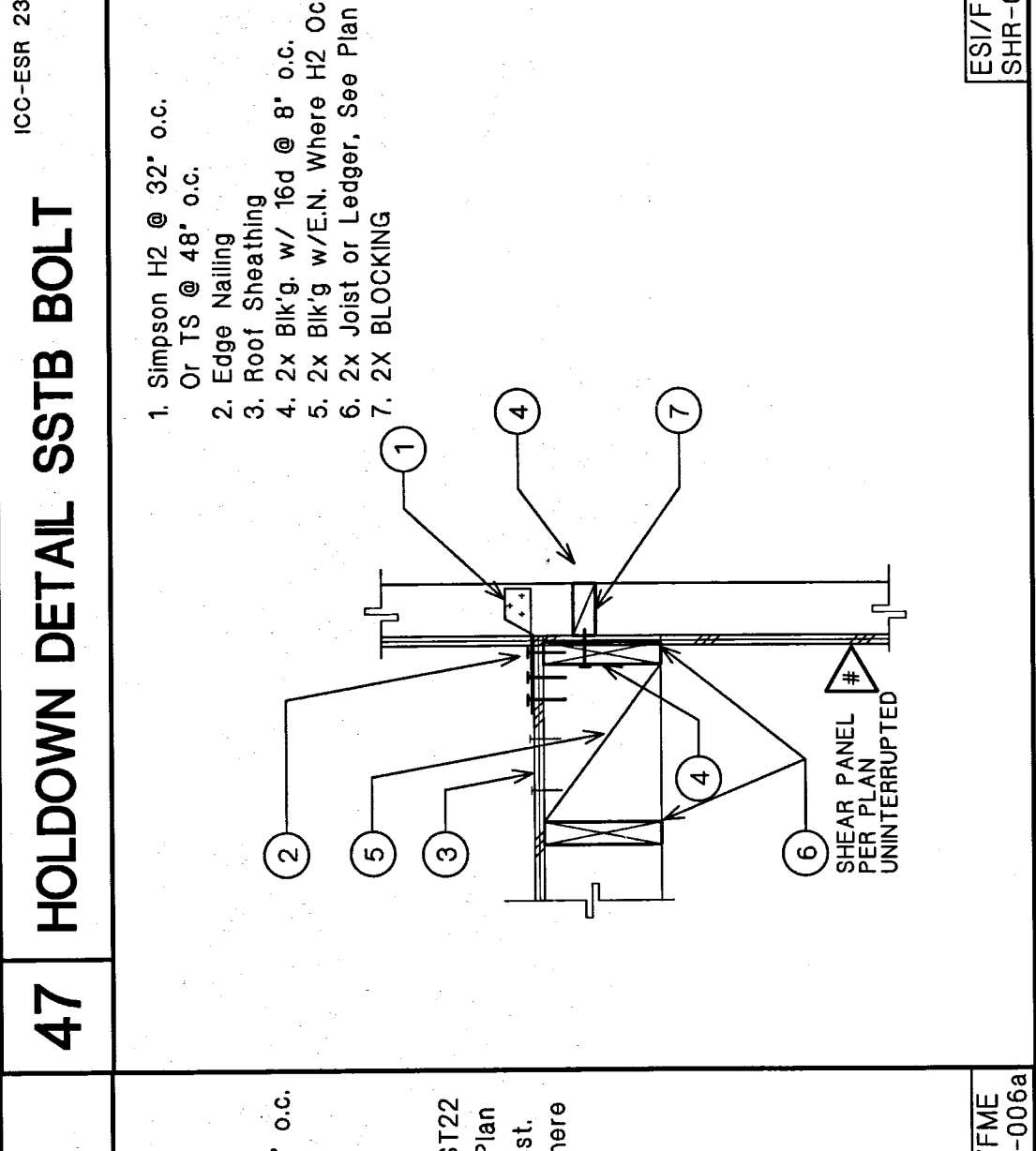
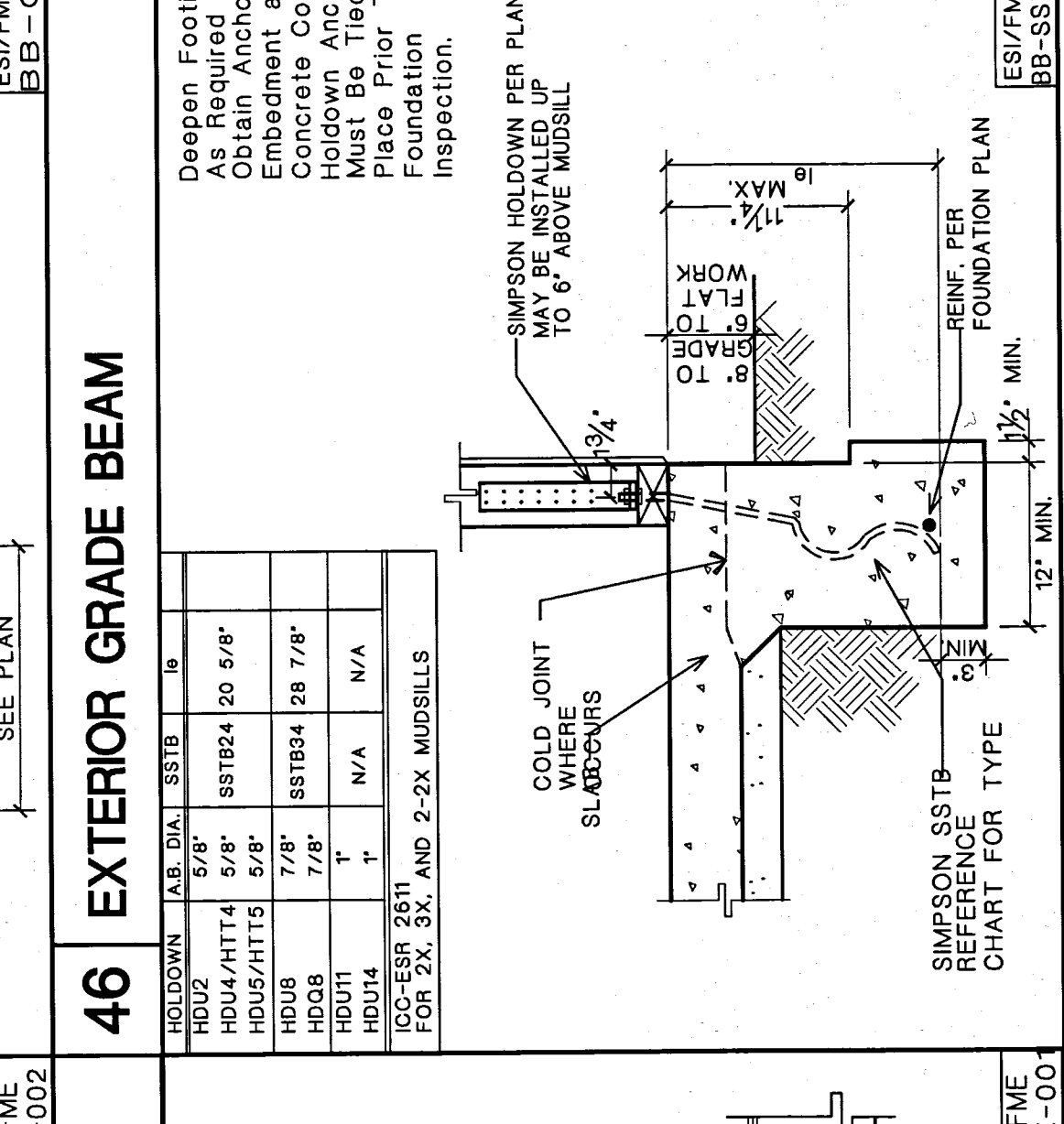
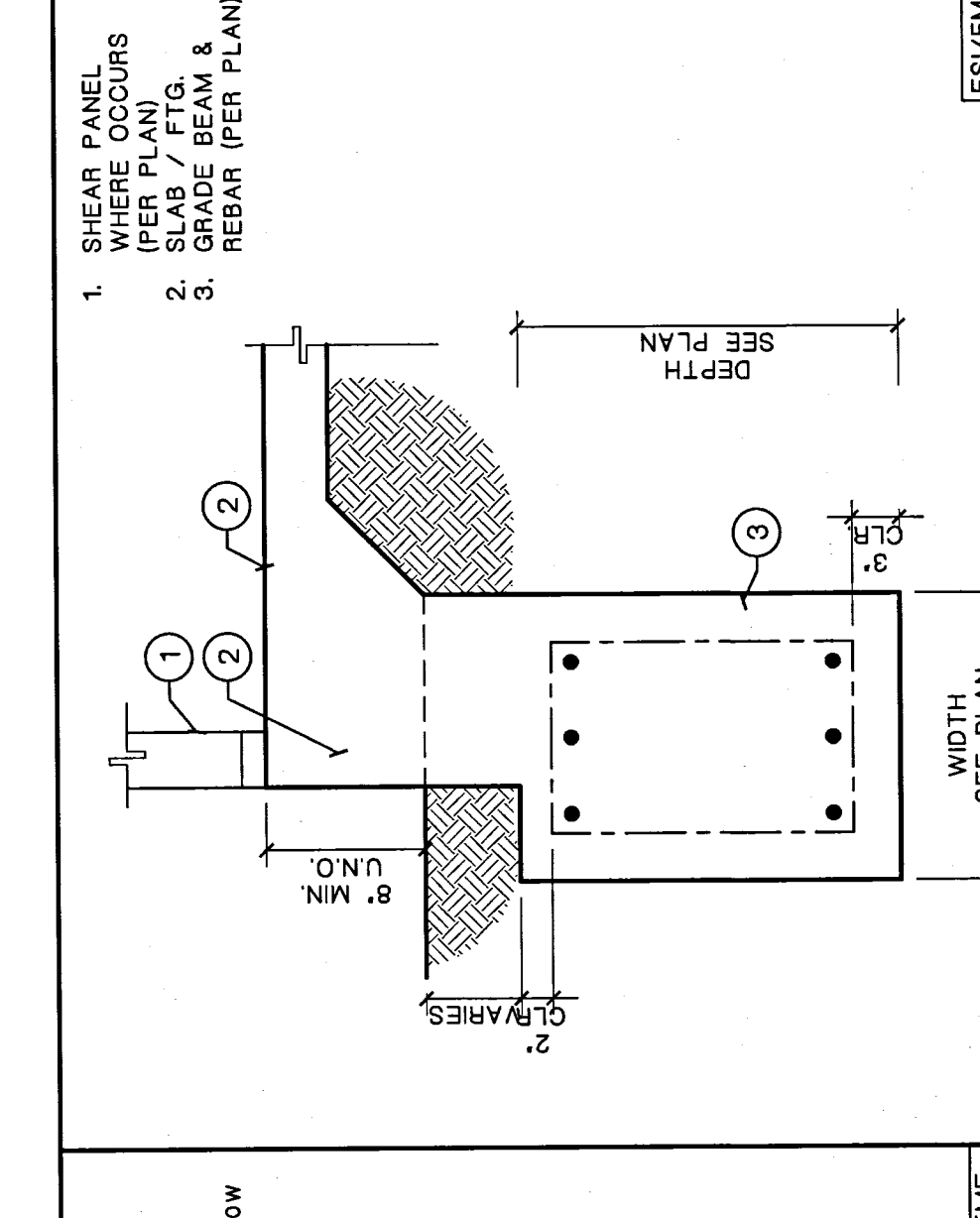
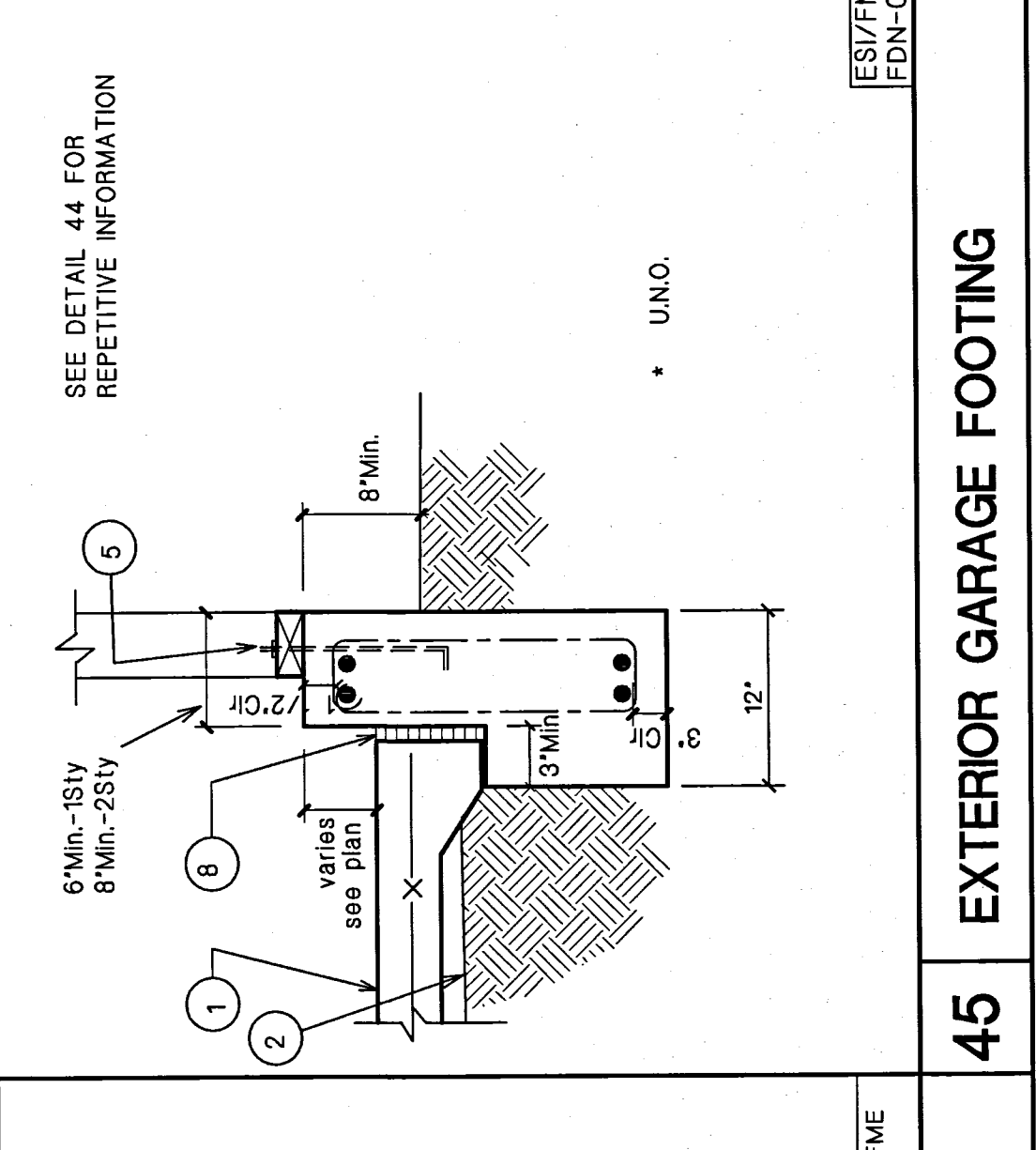
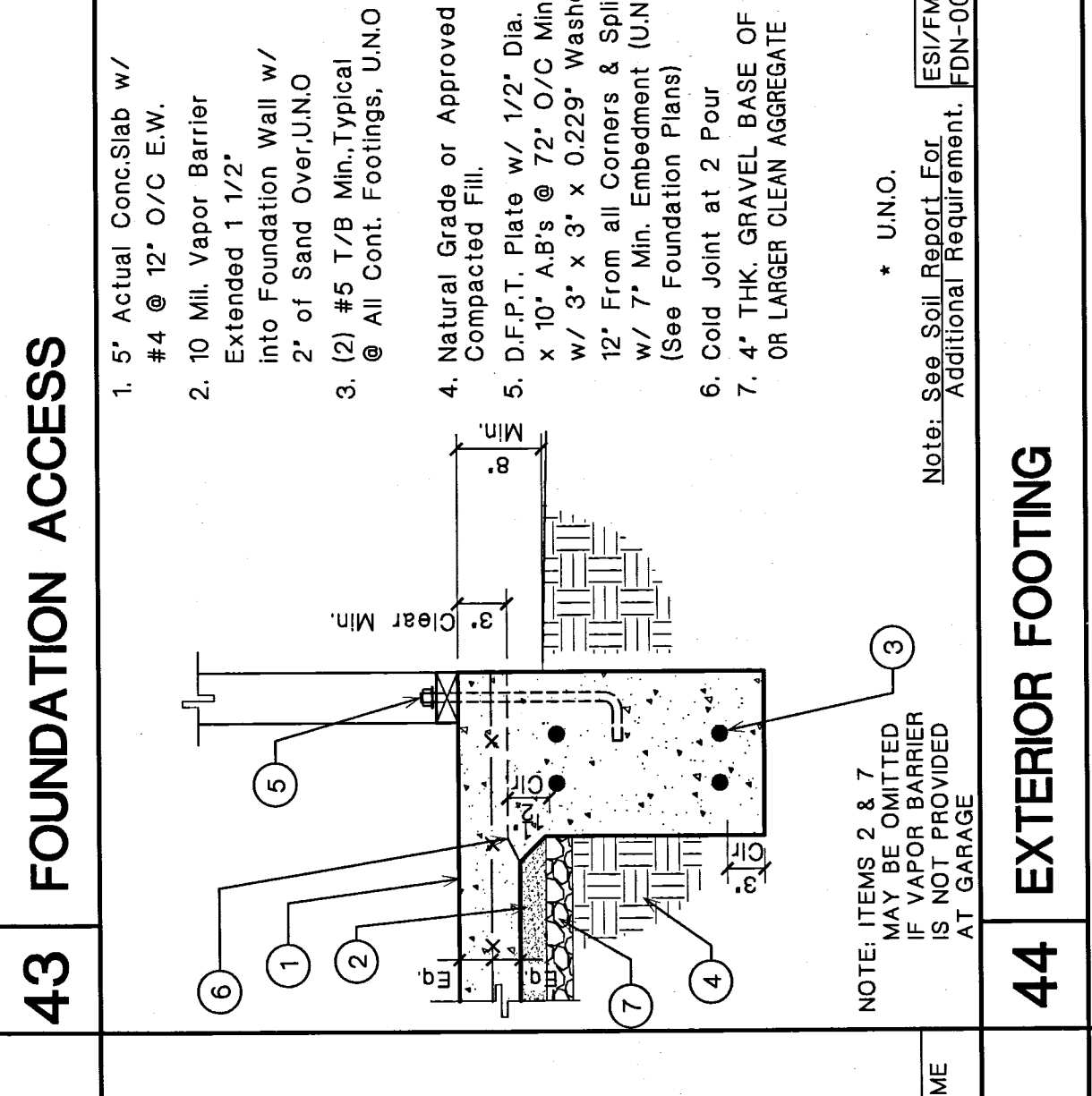
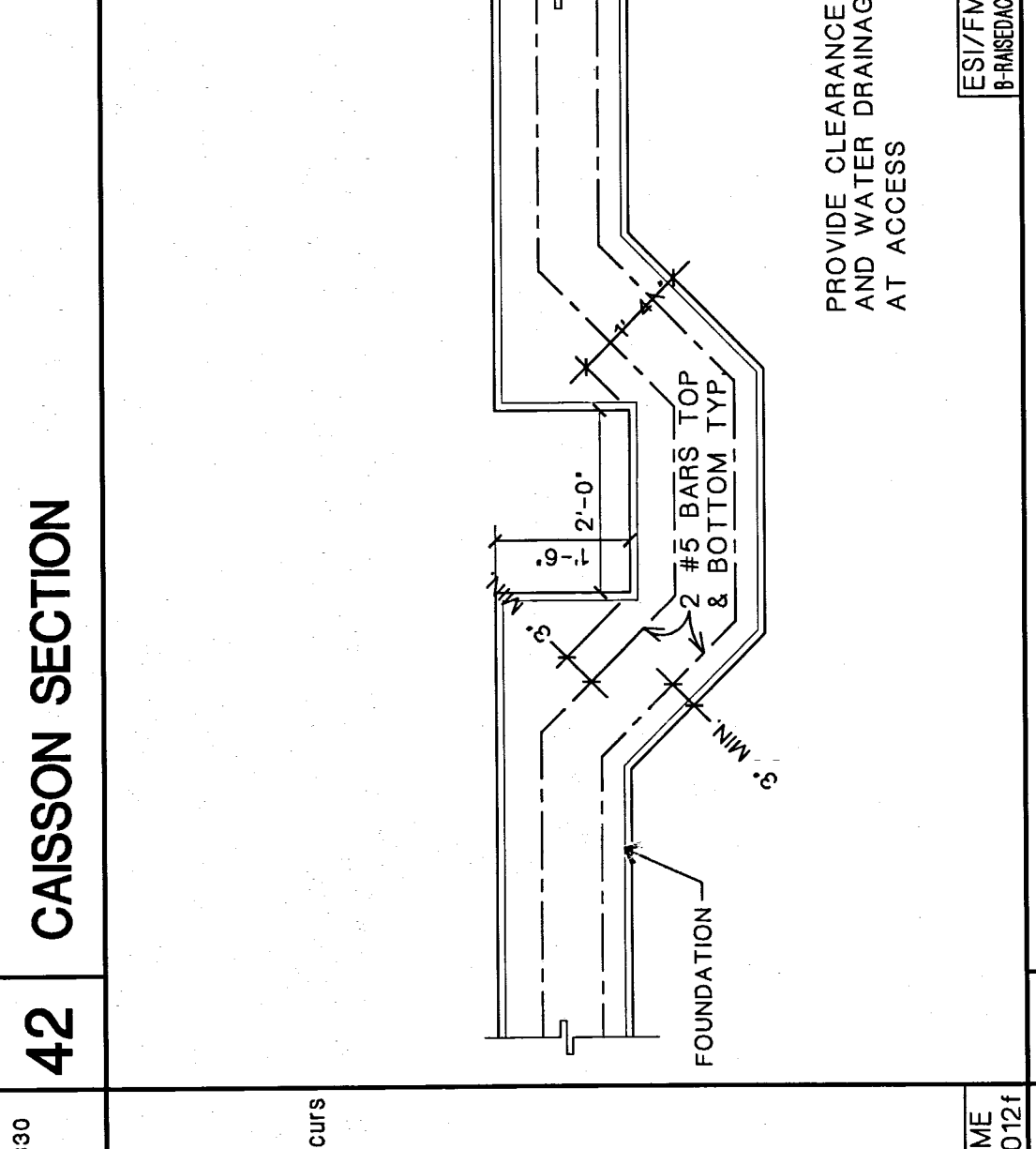
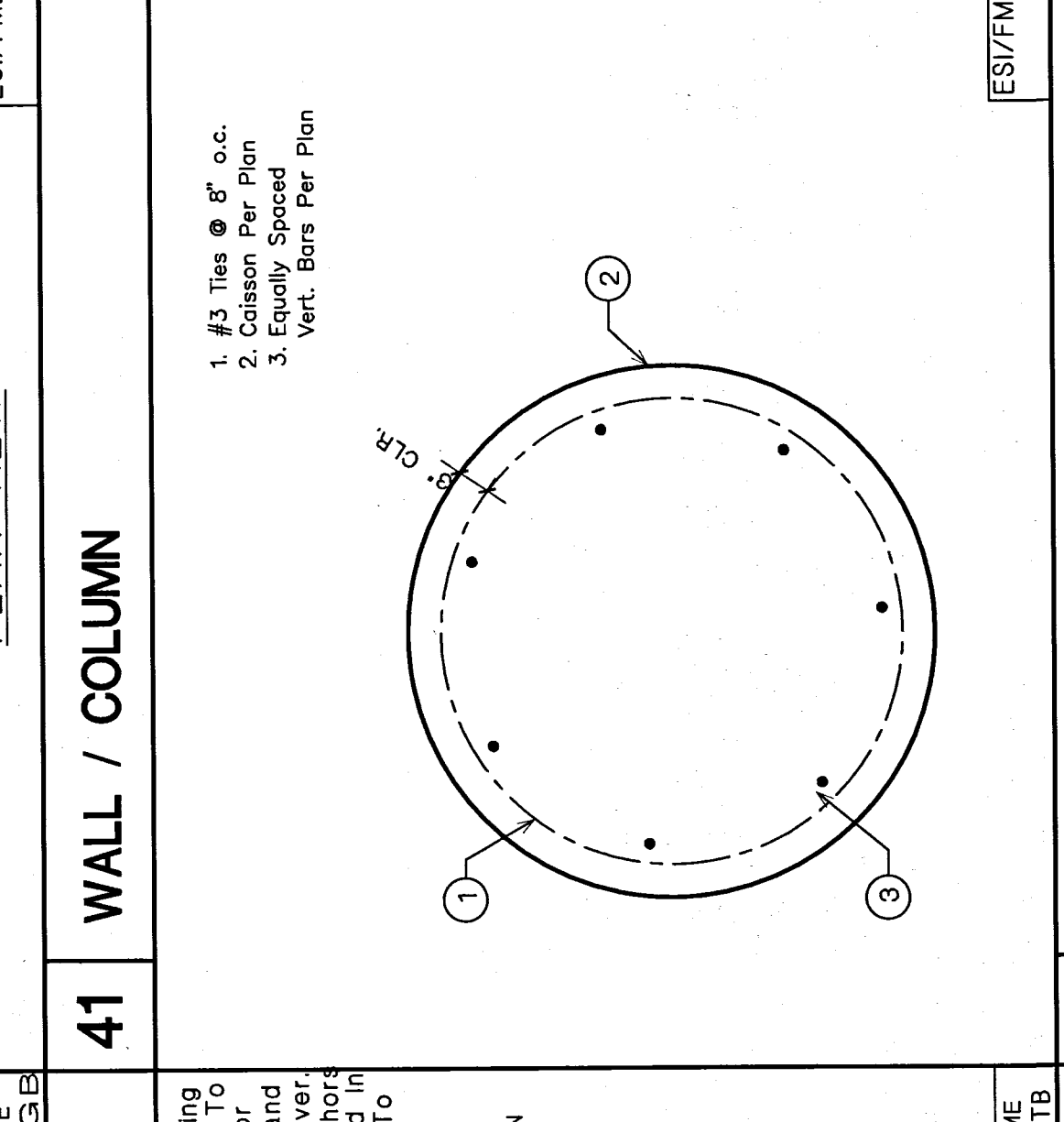
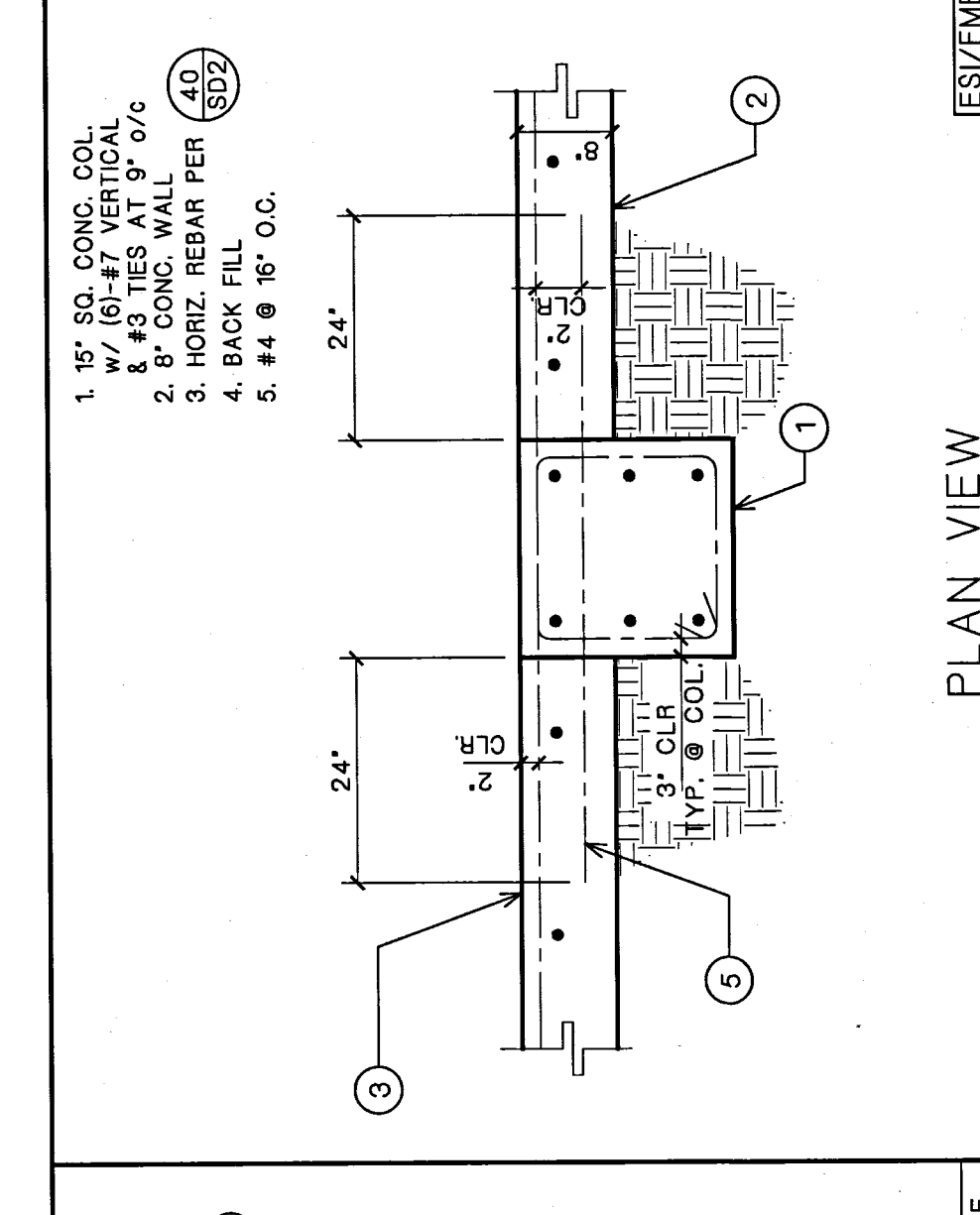
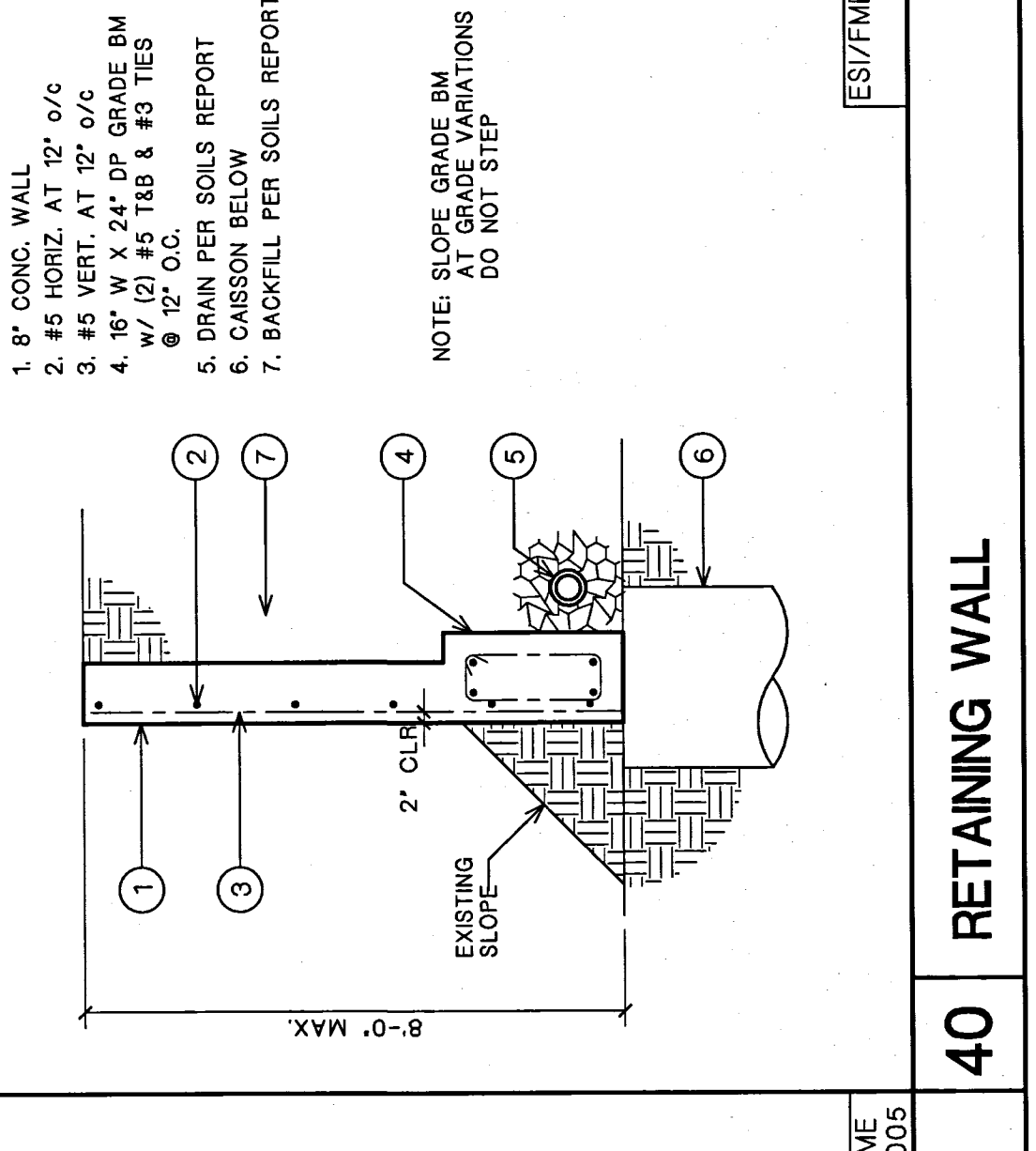
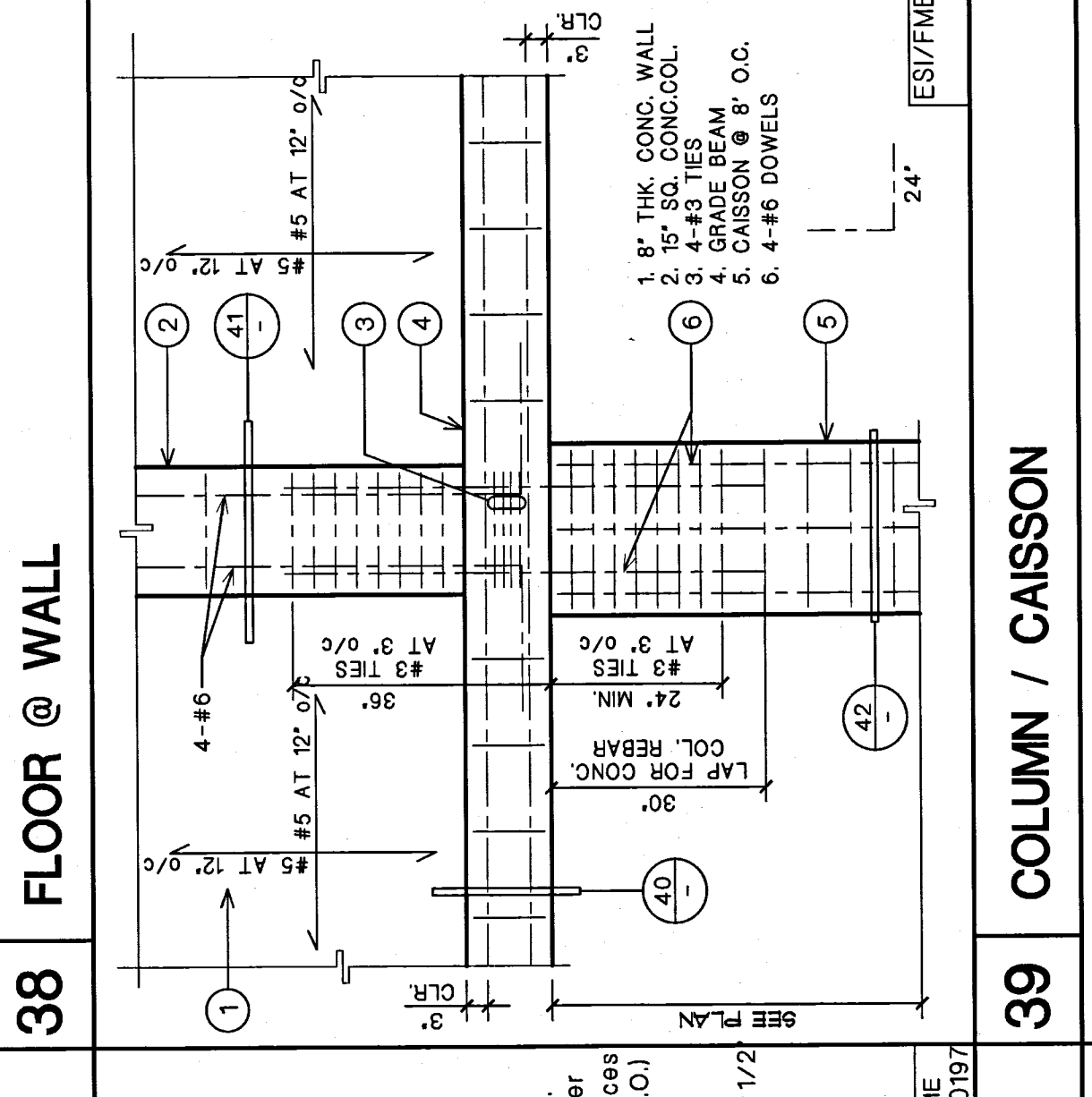
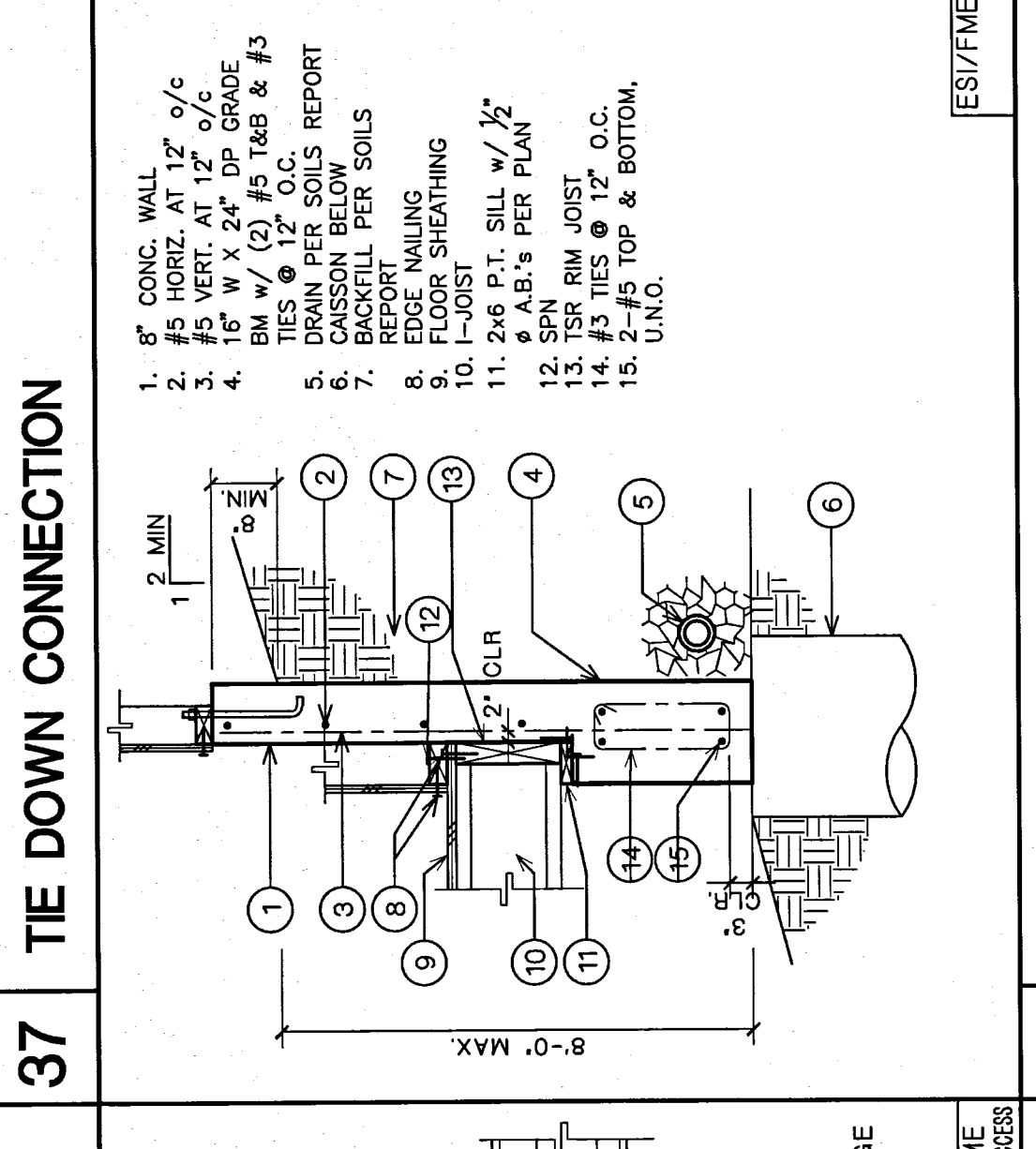
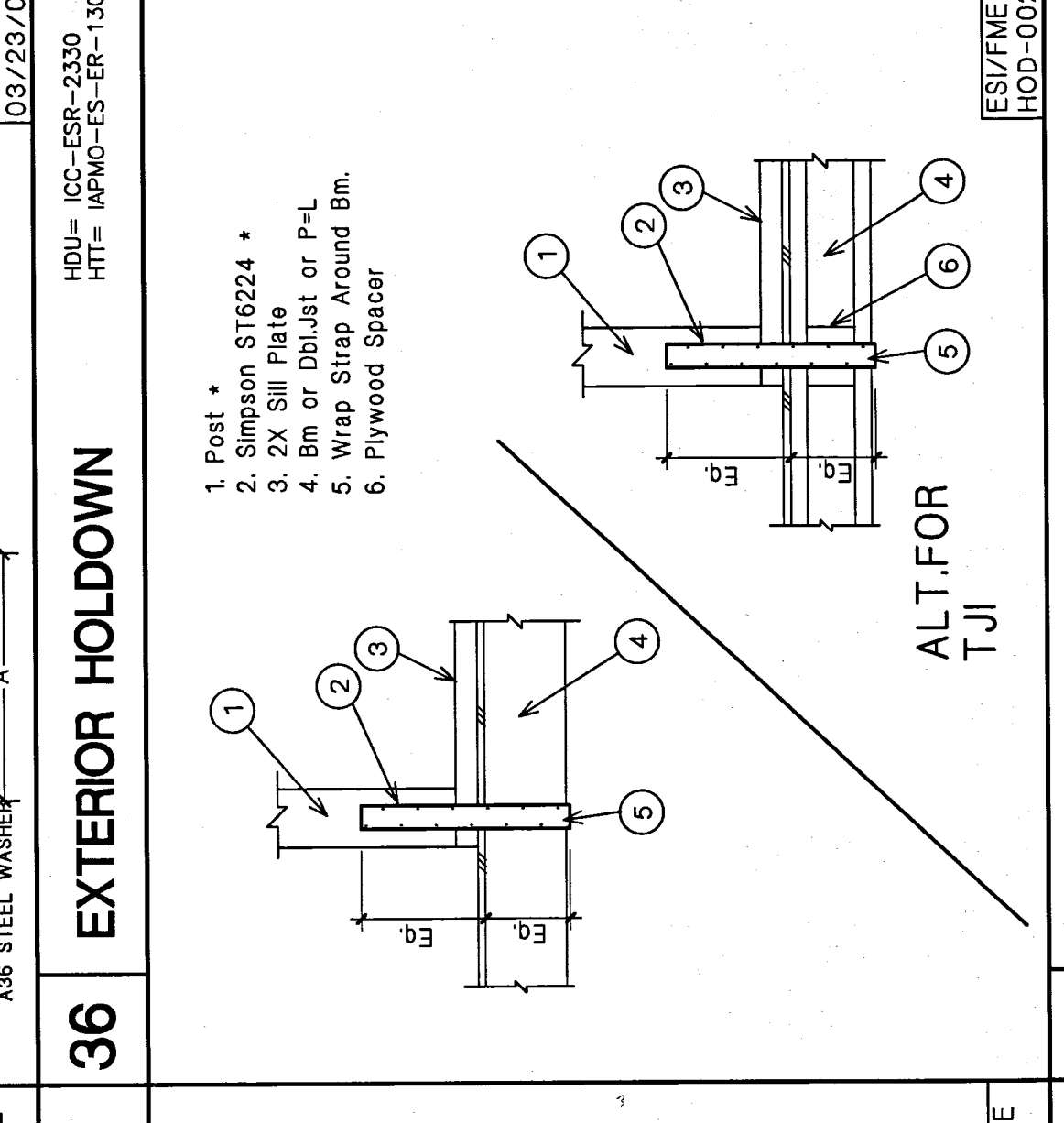
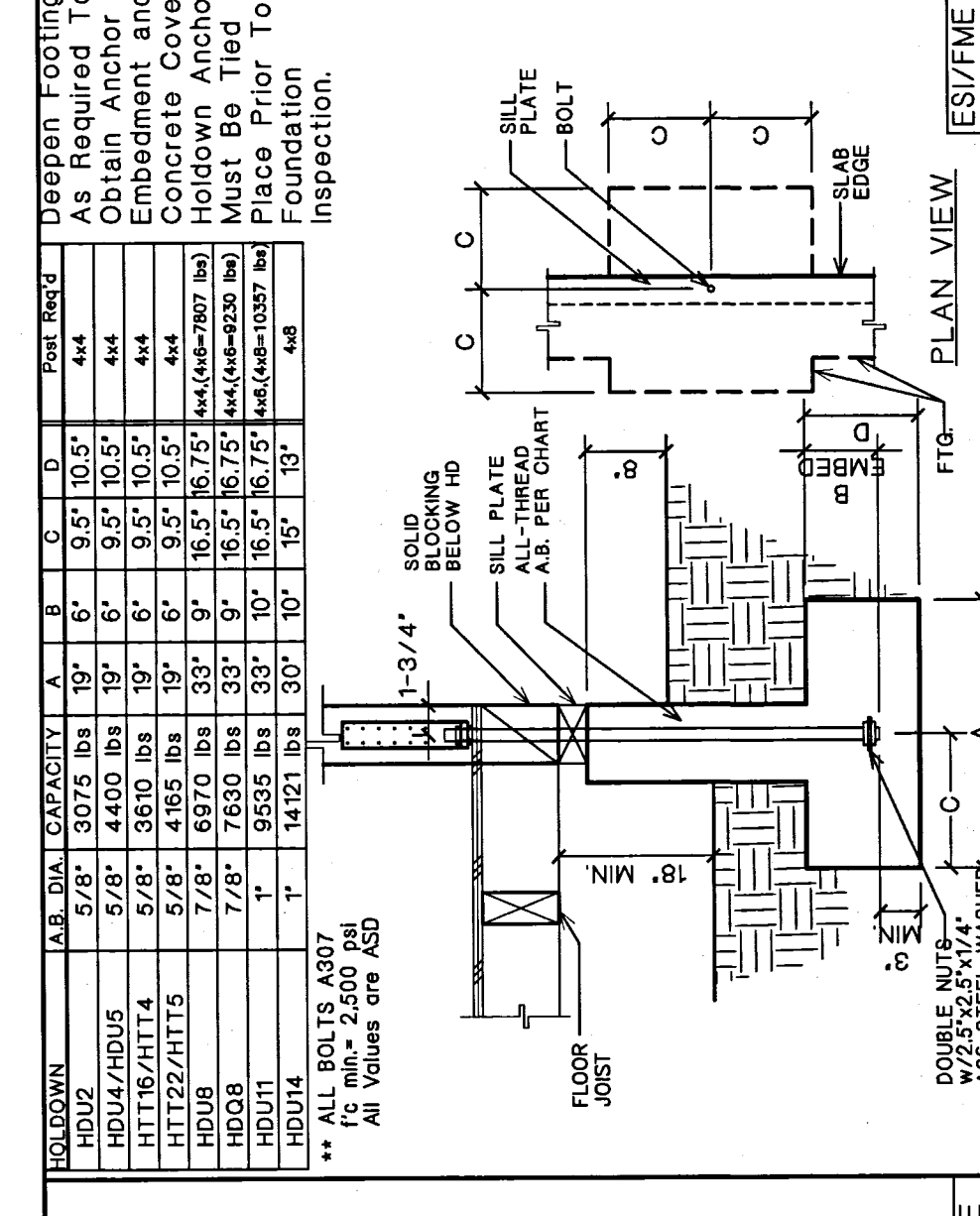
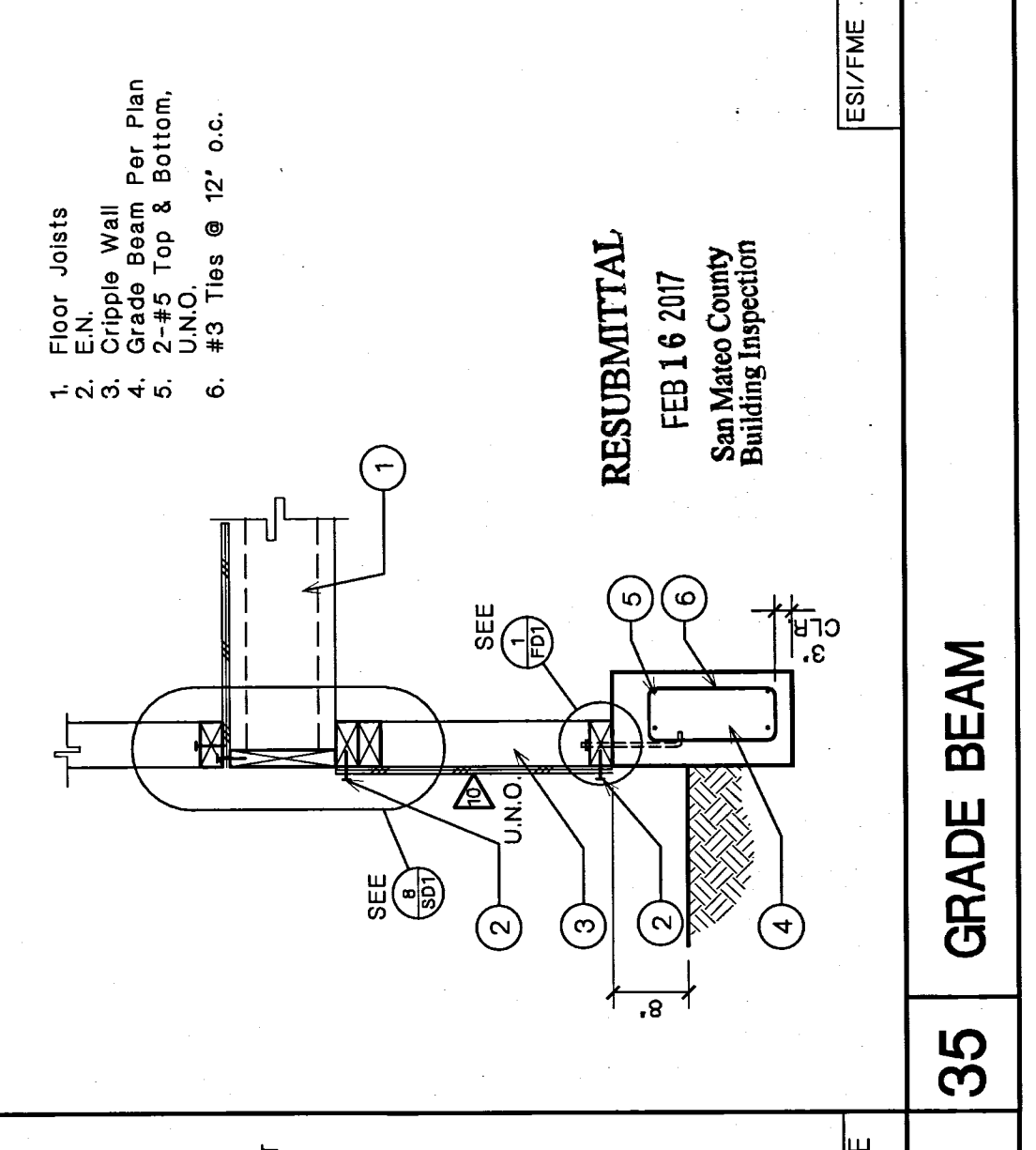
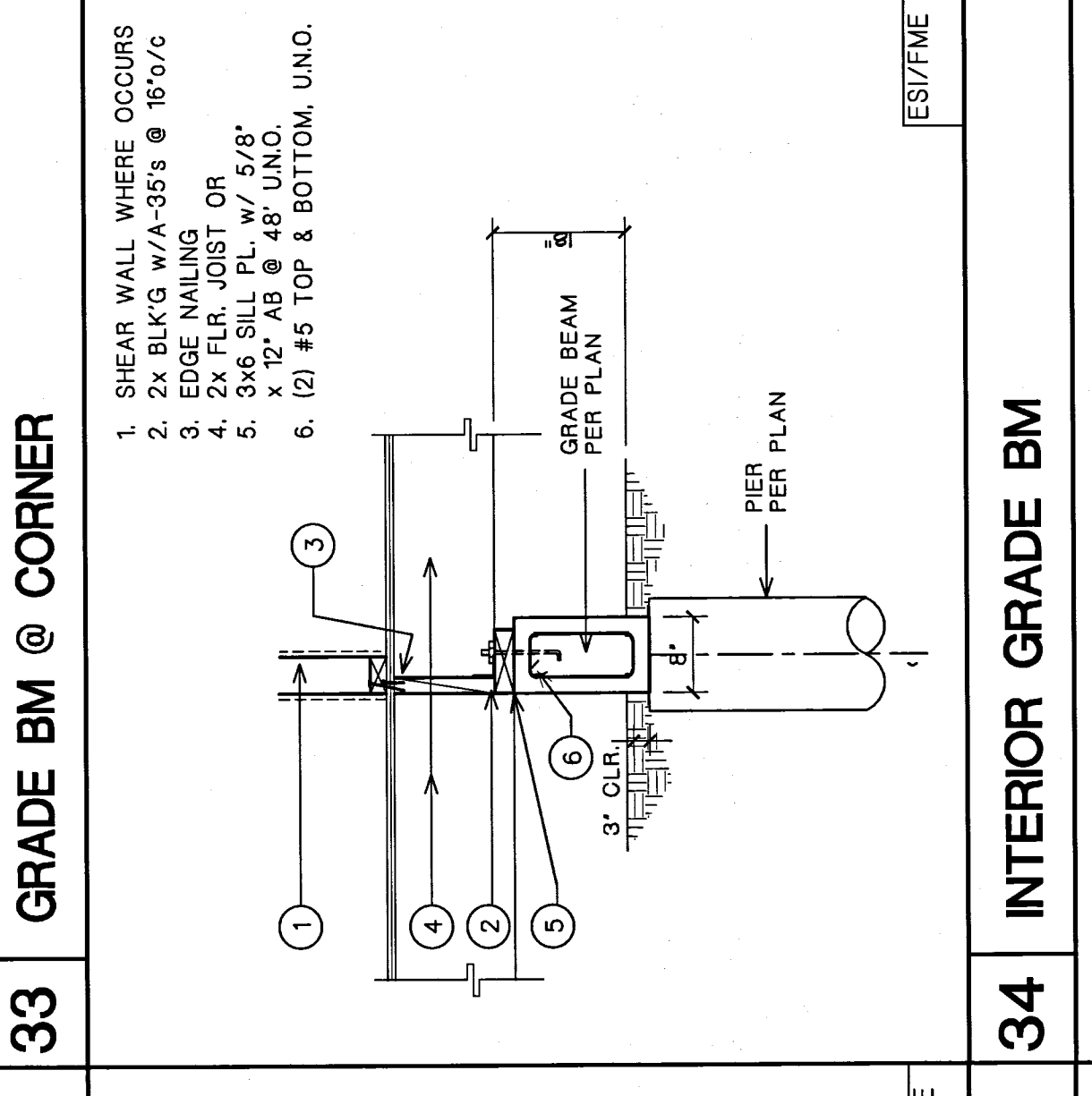
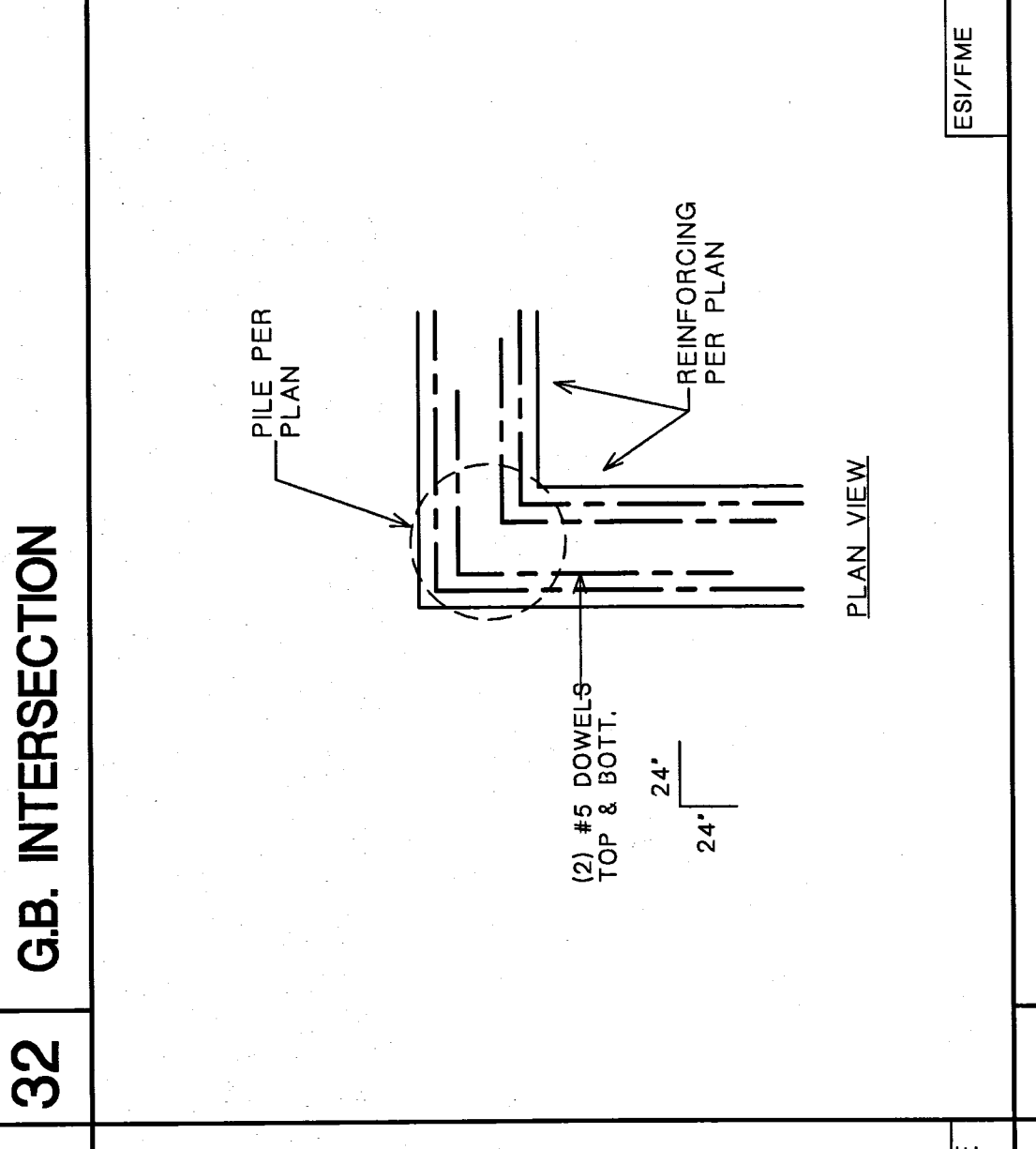
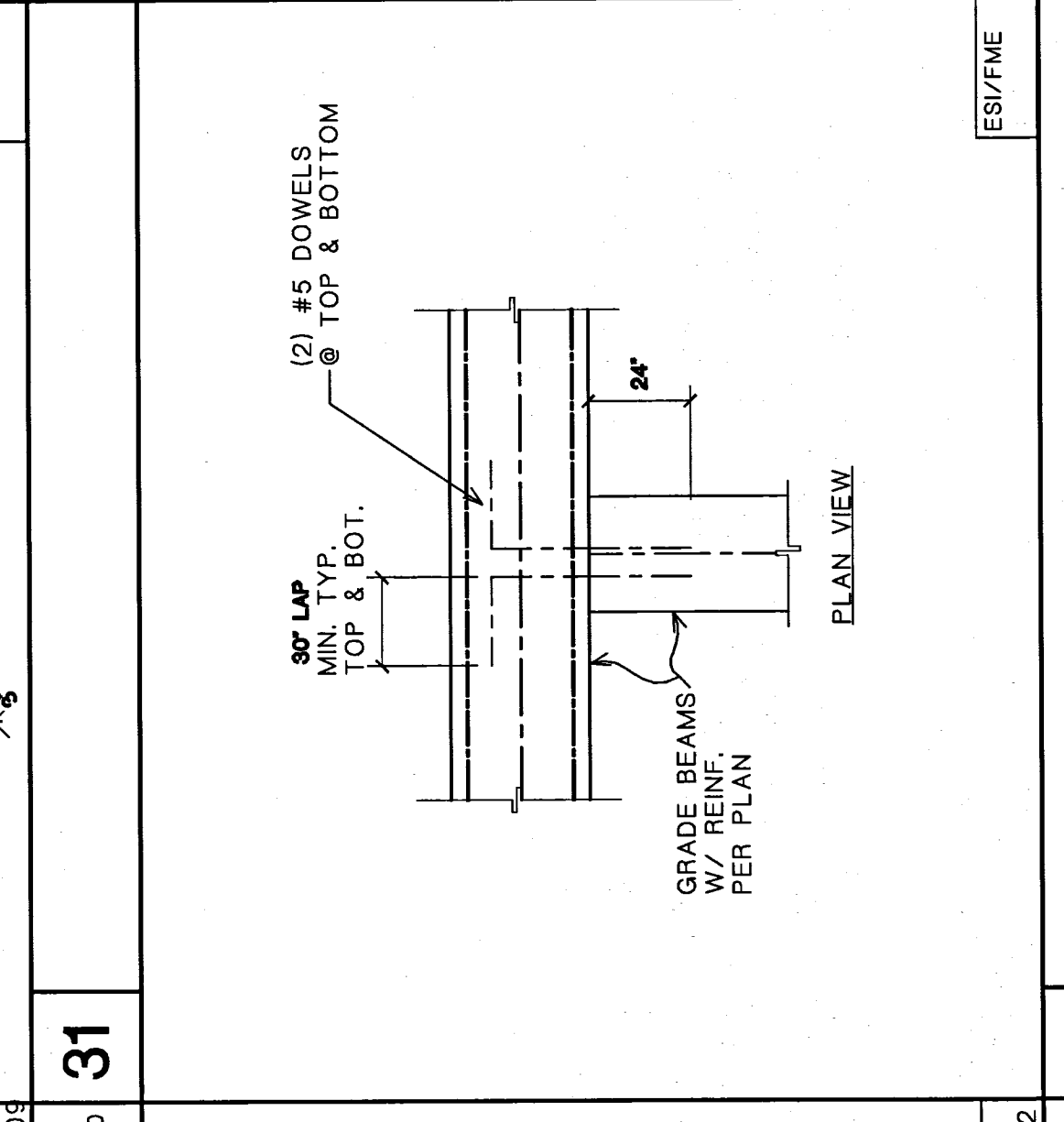
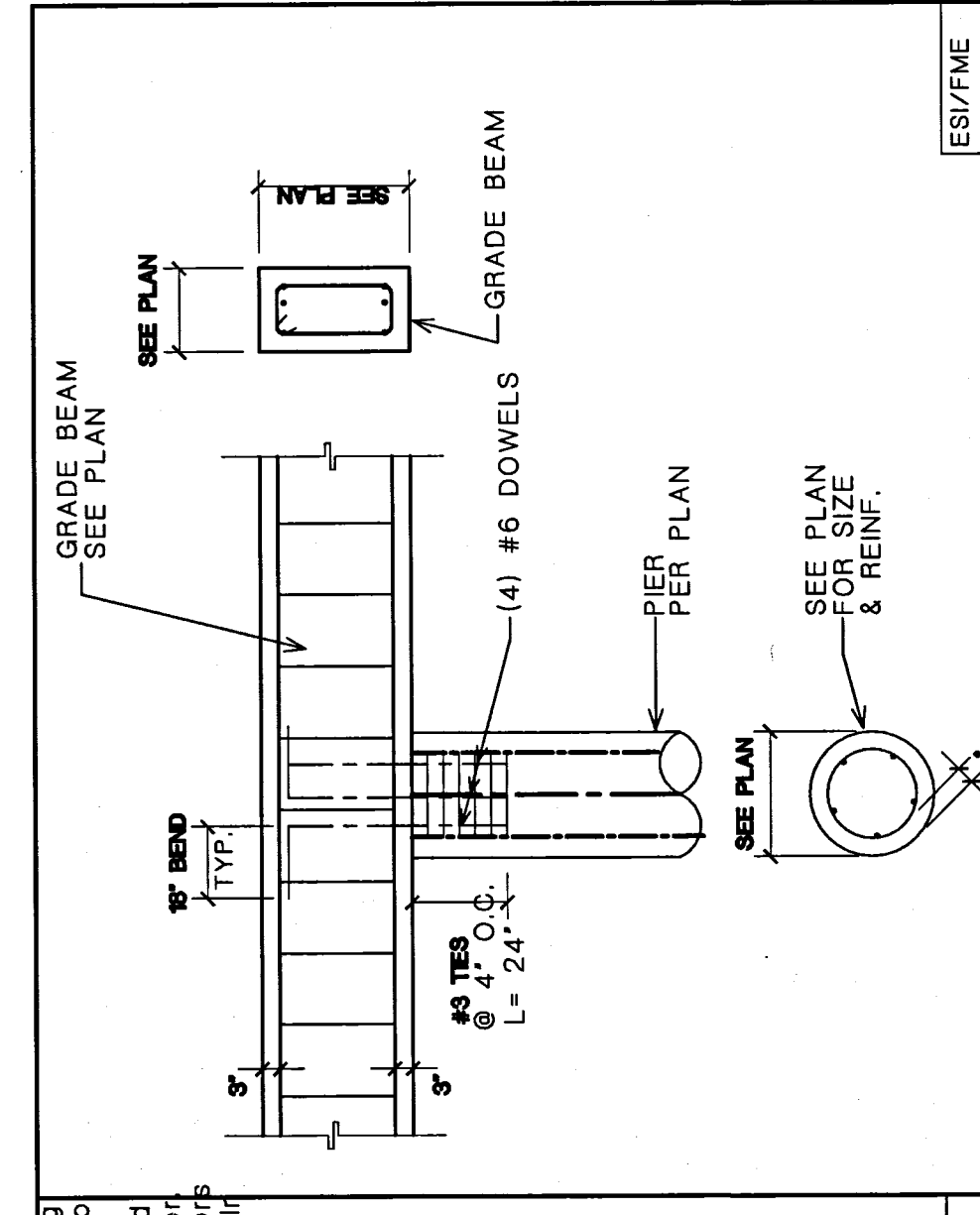
REVIEWED FOR CODE COMPLIANCE
The State of California Building Code
NOV 13 2019
SAN MATEO CO. BLDG. INS. DIV.

**HIGHLAND ESTATES
SAN MATEO COUNTY, CA
THE CHAMBERLAIN GROUP
MGA**

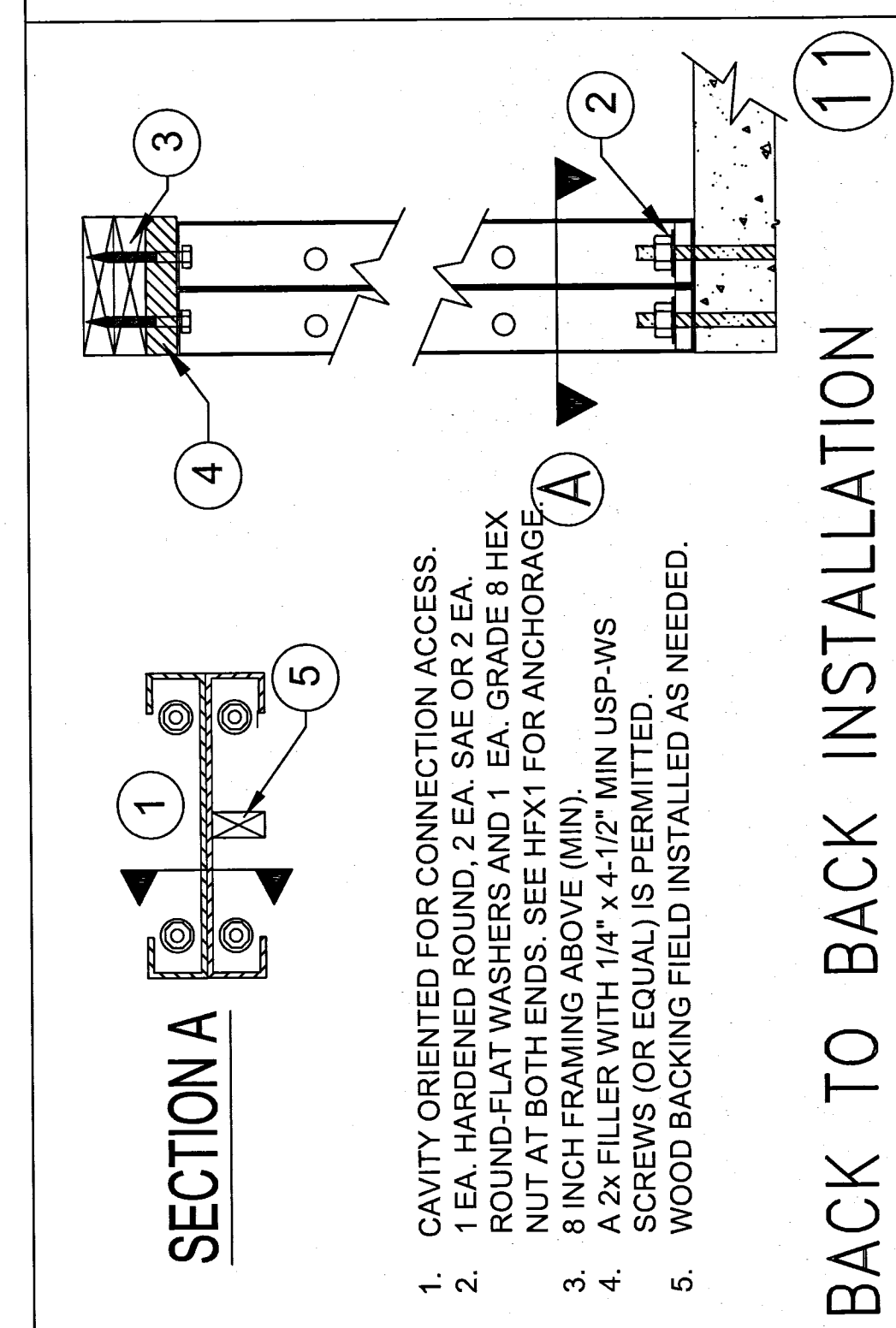
**REGISTERED PROFESSIONAL ENGINEER
C. 3907
CIVIL
CALIFORNIA**

SD2
SHEET: 7 OF 7

DRAWN: _____
CHECKED: _____
DATE: 07/08/2016
JOB NO. C169
SHEET

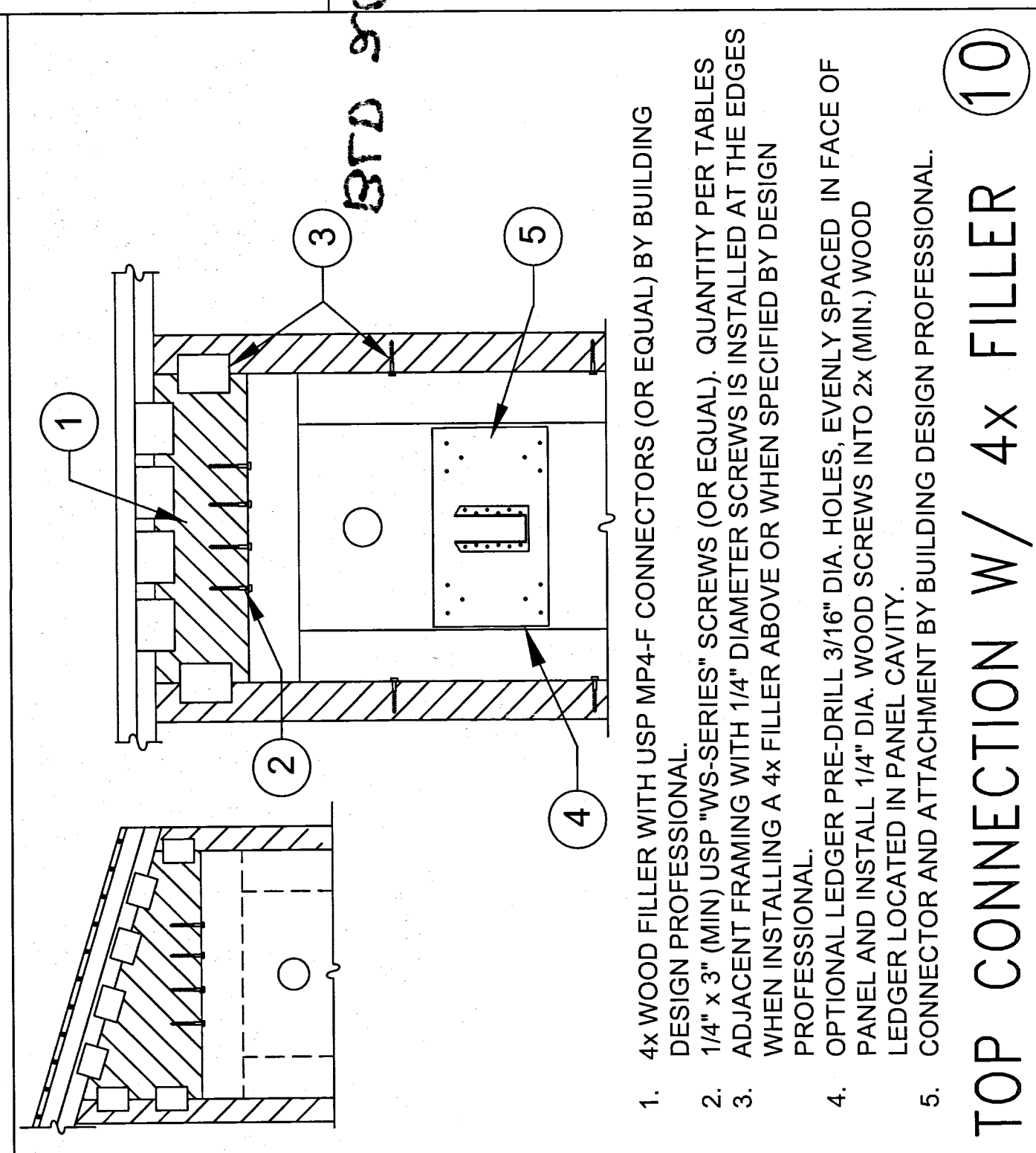


**RESUBMITTAL
FEB 16 2017
San Mateo County
Building Inspection**



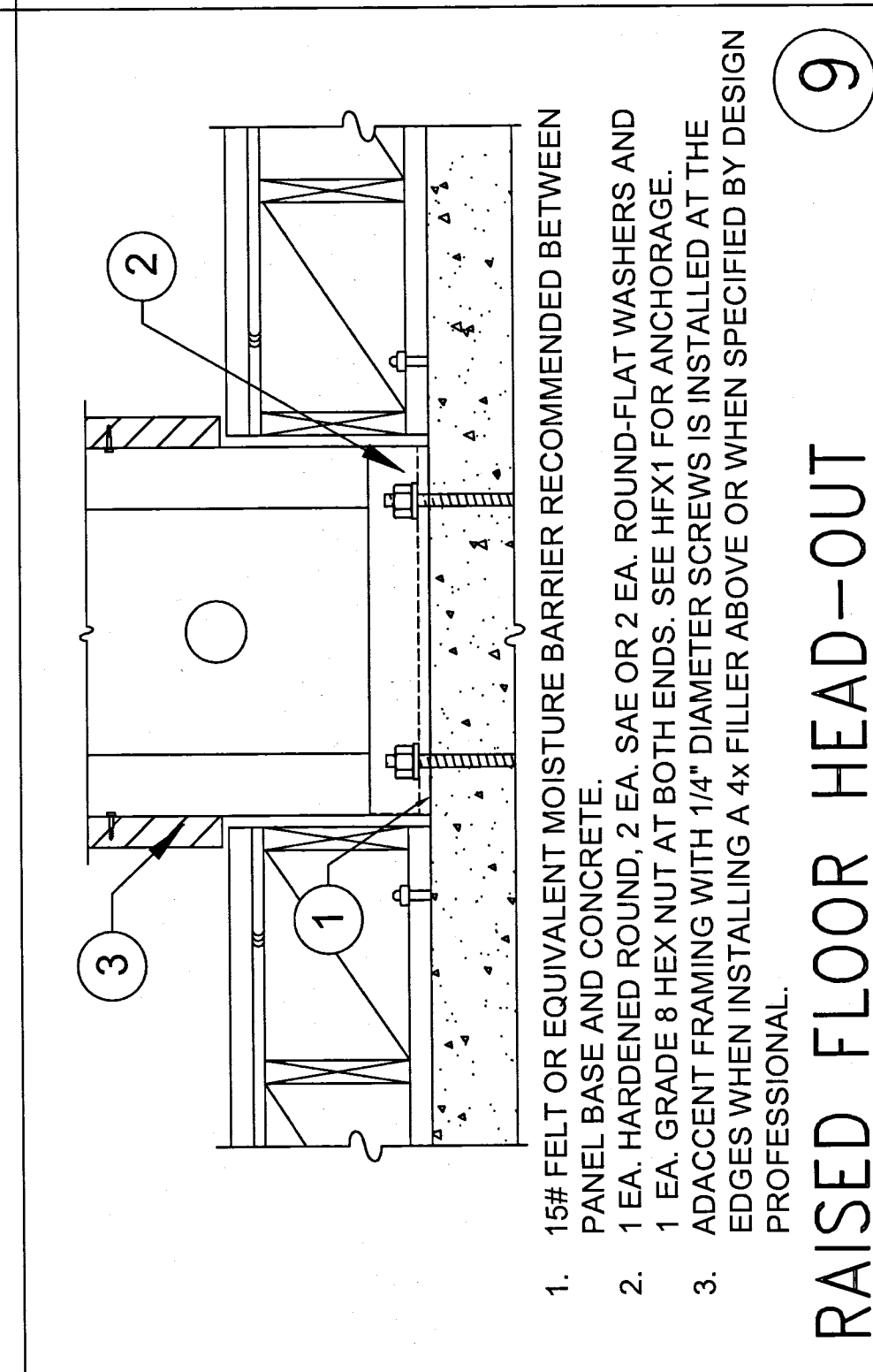
- SECTION A**
1. CAVITY ORIENTED FOR CONNECTION ACCESS.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFXT1 FOR ANCHORAGE.
 3. A 2x FILLER WITH 1/4" x 4-1/2" MIN USP-WS SCREWS (OR EQUAL) IS PERMITTED.
 4. WOOD BACKING FIELD INSTALLED AS NEEDED.

BACK TO BACK INSTALLATION



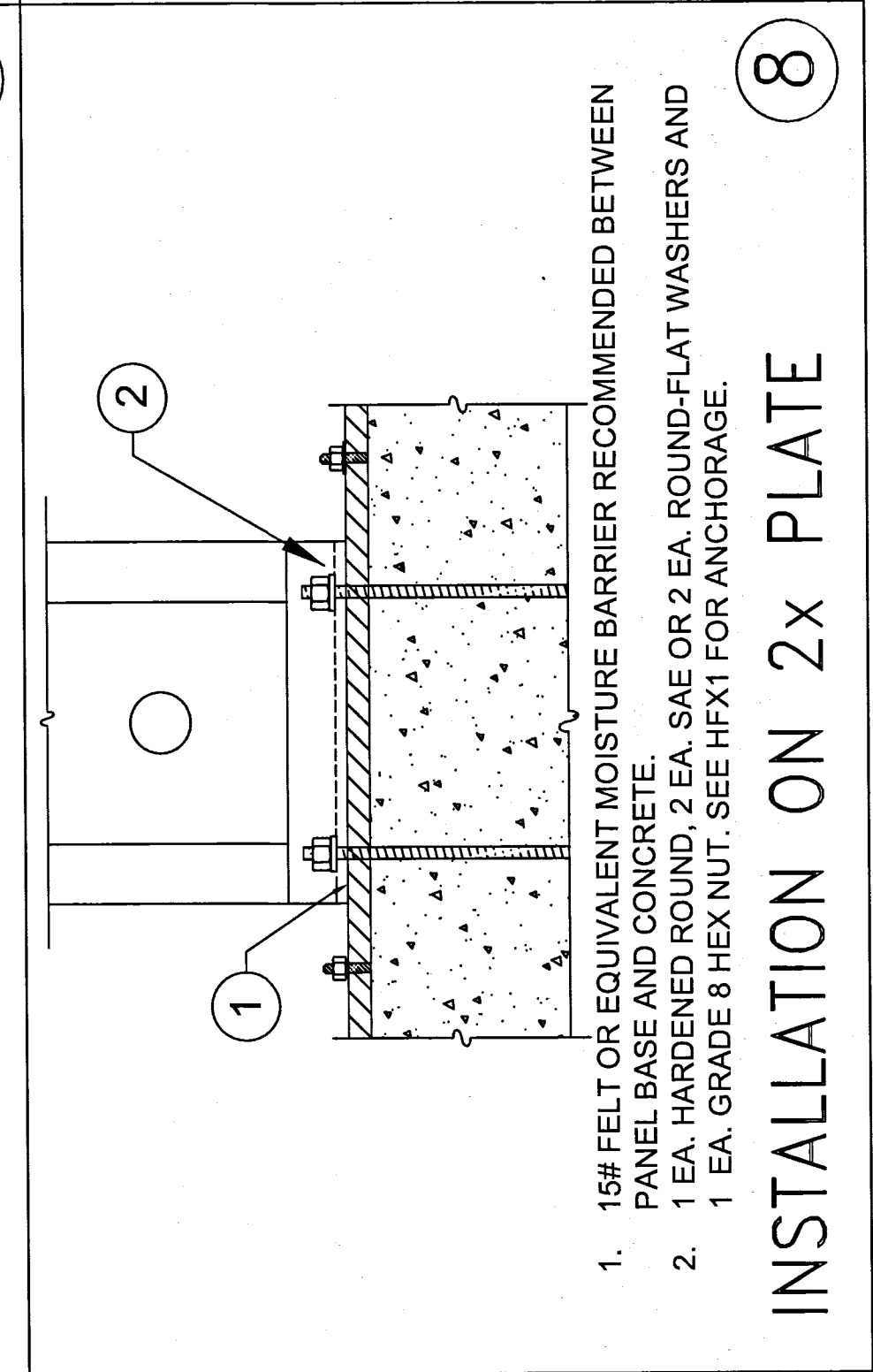
- SECTION B**
1. 4x WOOD FILLER WITH USP MP4-F CONNECTORS (OR EQUAL) BY BUILDING DESIGN PROFESSIONAL.
 2. 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES ADJACENT FRAMING WITH 1/4" DIA. FILLER SCREWS IS INSTALLED AT THE EDGES WHEN INSTALLING A 4x FILLER ABOVE OR WHEN SPECIFIED BY DESIGN.
 3. OPTIONAL LEDGER PRE-DRILL 3/16" DIA. HOLES, EVENLY SPACED, IN FACE OF PANEL AND INSTALLED IN PANEL CAVITY.
 4. CONNECTOR AND ATTACHMENT BY BUILDING DESIGN PROFESSIONAL.

TOP CONNECTION W/ 4x FILLER



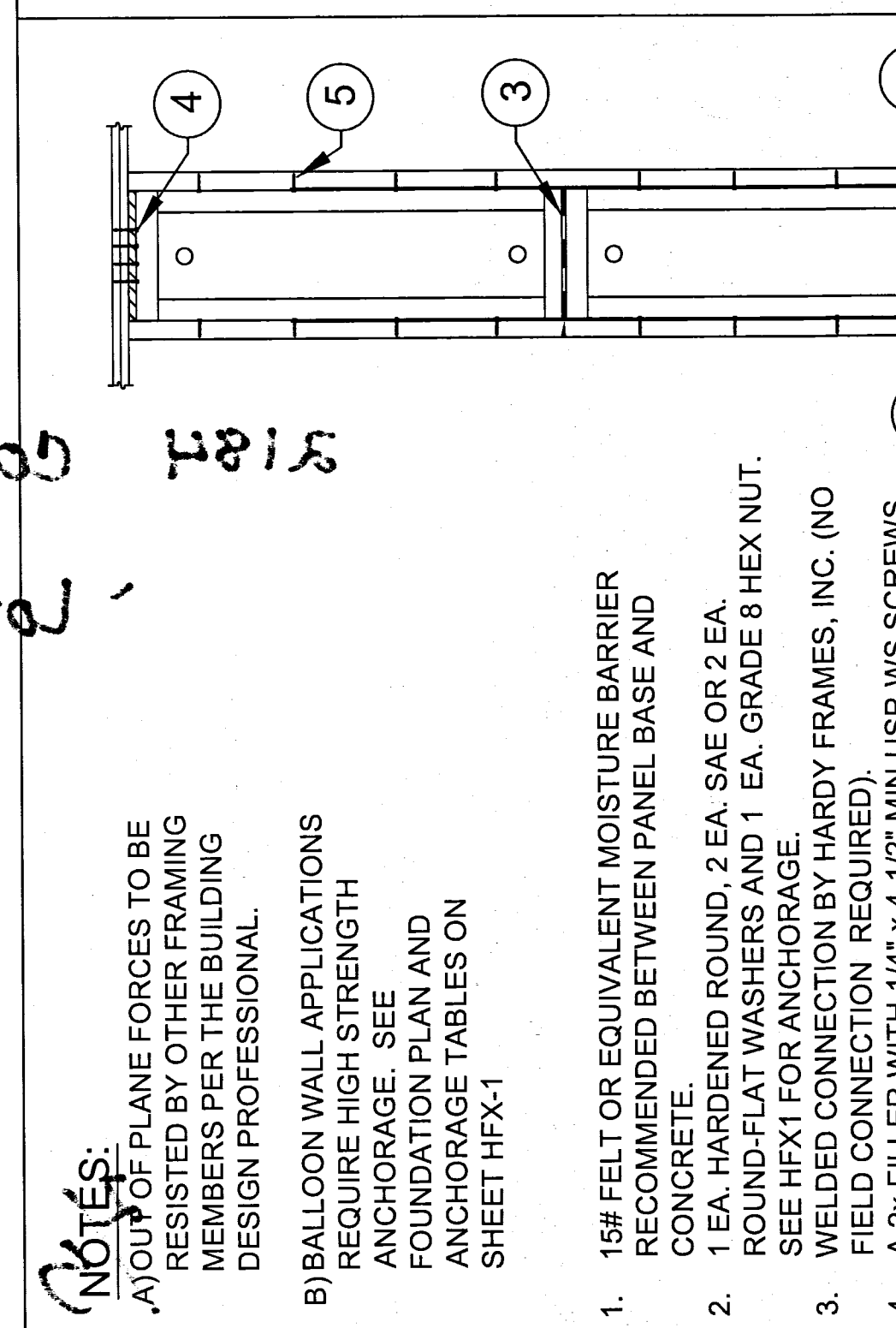
- SECTION C**
1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFXT1 FOR ANCHORAGE.
 3. ADJACENT FRAMING WITH 1/4" DIA. FILLER ABOVE OR WHEN SPECIFIED BY DESIGN PROFESSIONAL.

RAISED FLOOR HEAD-OUT



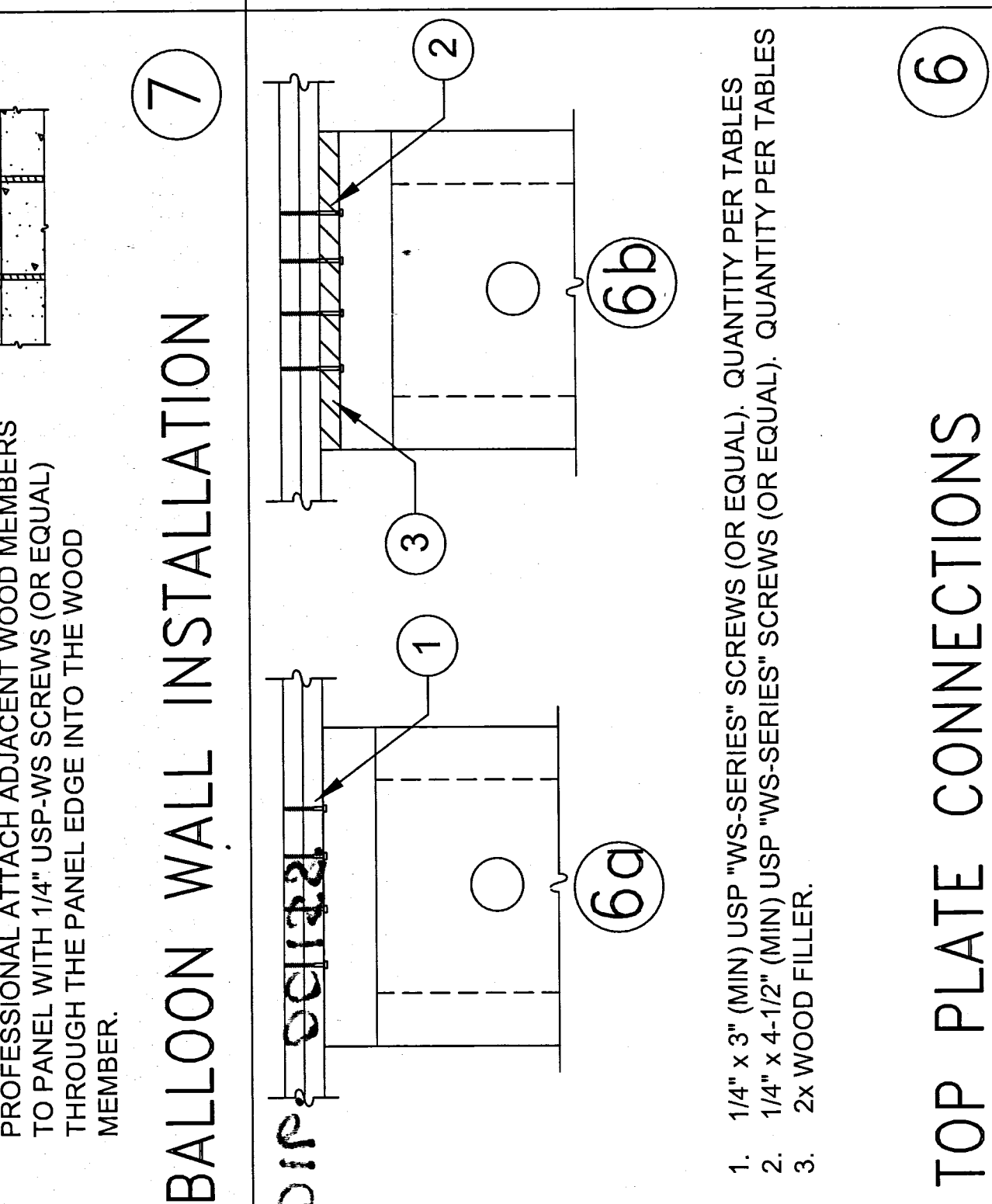
- SECTION D**
1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFXT1 FOR ANCHORAGE.

INSTALLATION ON 2x PLATE



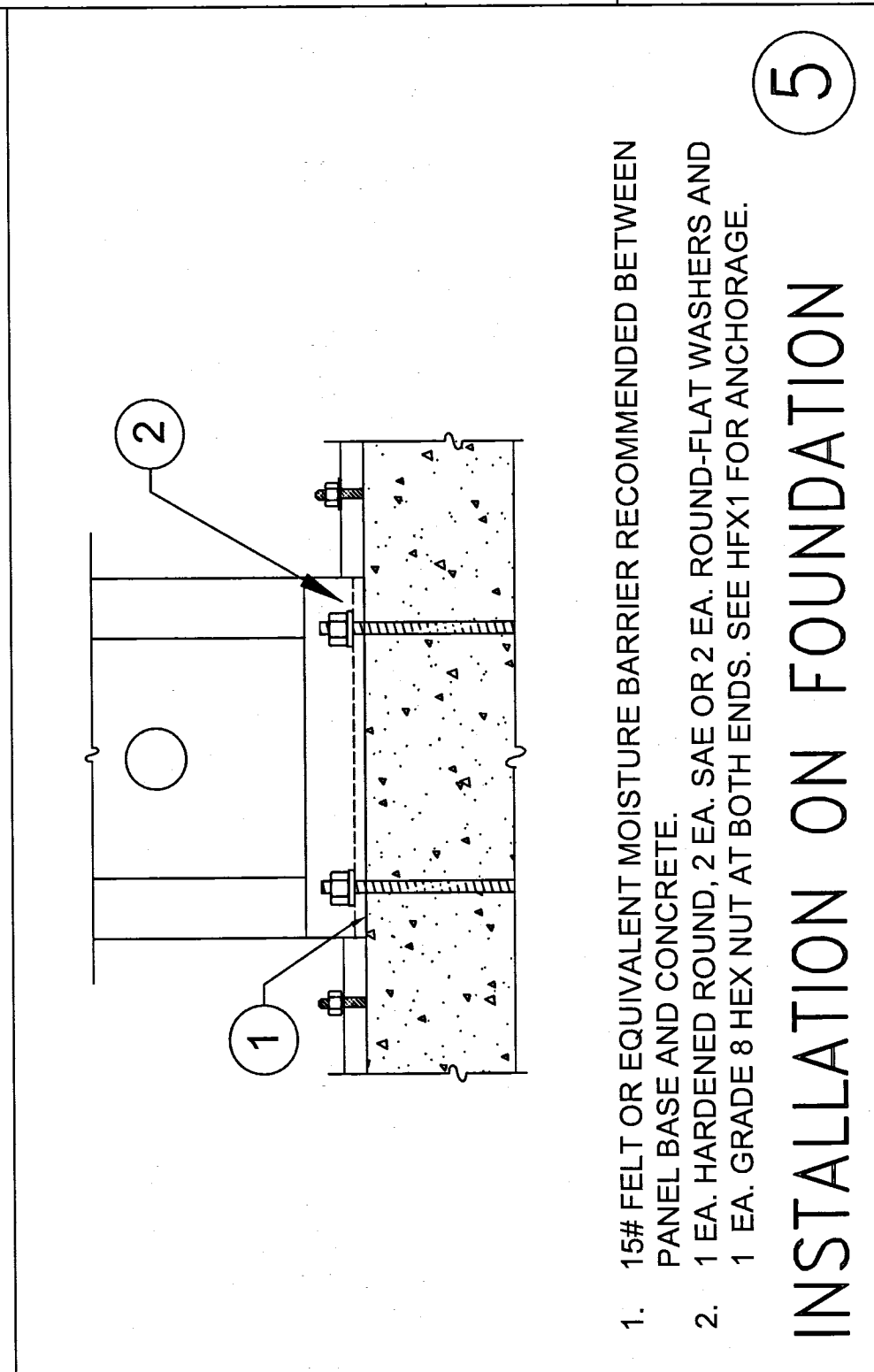
- SECTION E**
1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFXT1 FOR ANCHORAGE.
 3. WELDED CONNECTION BY HARDY FRAMES, INC. (NO FIELD CONNECTION REQUIRED).
 4. A 2x FILLER WITH 1/4" x 4-1/2" MIN USP-WS SCREWS (OR EQUAL) IS PERMITTED.
 5. PROFESSIONAL ATTACH ADJACENT WOOD MEMBERS TO PANEL WITH 1/4" USP-WS SCREWS (OR EQUAL) THROUGH THE PANEL EDGE INTO THE WOOD MEMBER.

BALLOON WALL INSTALLATION



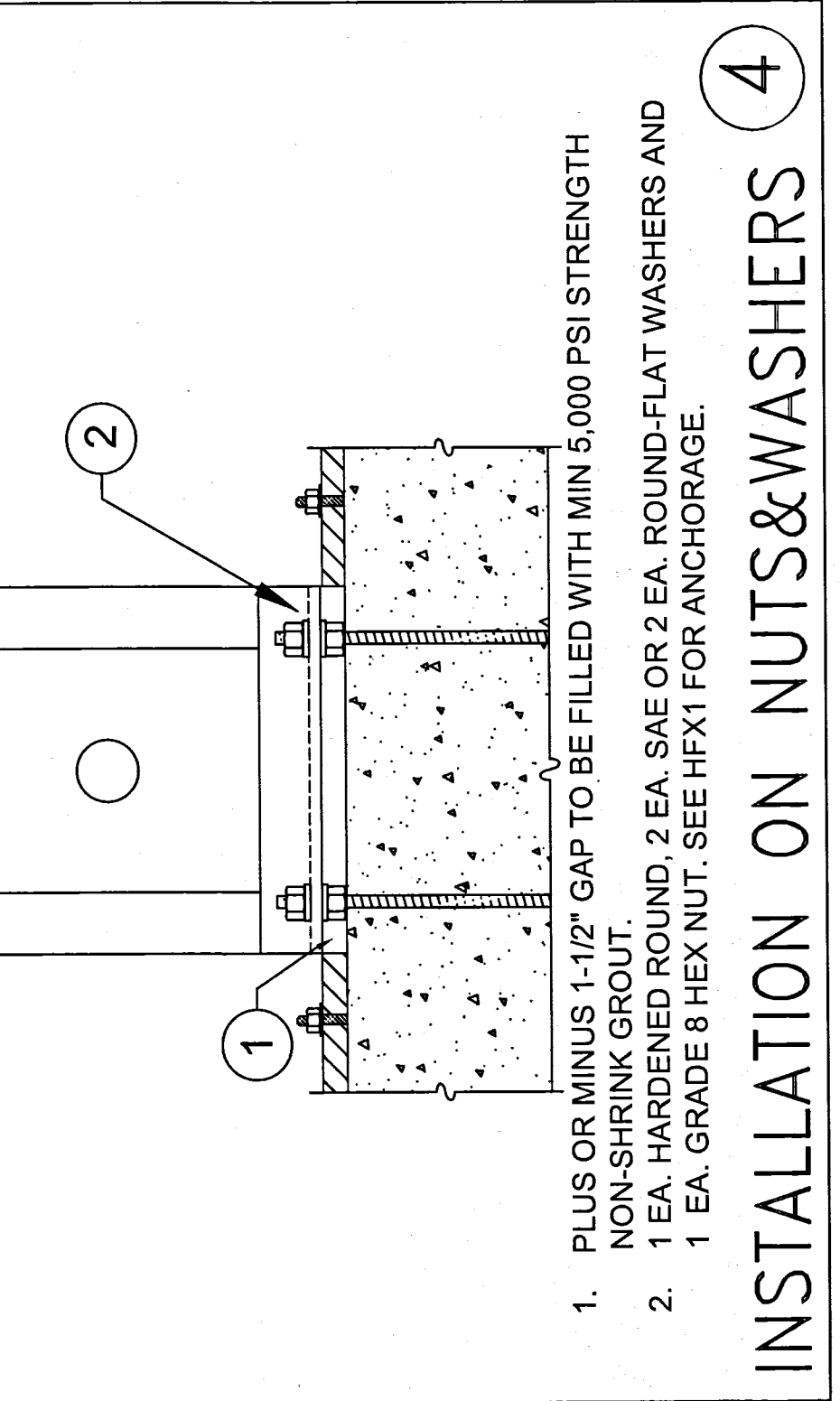
- SECTION F**
1. 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES ADJACENT FRAMING WITH 1/4" DIA. FILLER ABOVE OR WHEN SPECIFIED BY DESIGN.
 2. 1/4" x 4-1/2" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES ADJACENT FRAMING WITH 1/4" DIA. FILLER ABOVE OR WHEN SPECIFIED BY DESIGN.
 3. 2x WOOD FILLER.

TOP PLATE CONNECTIONS



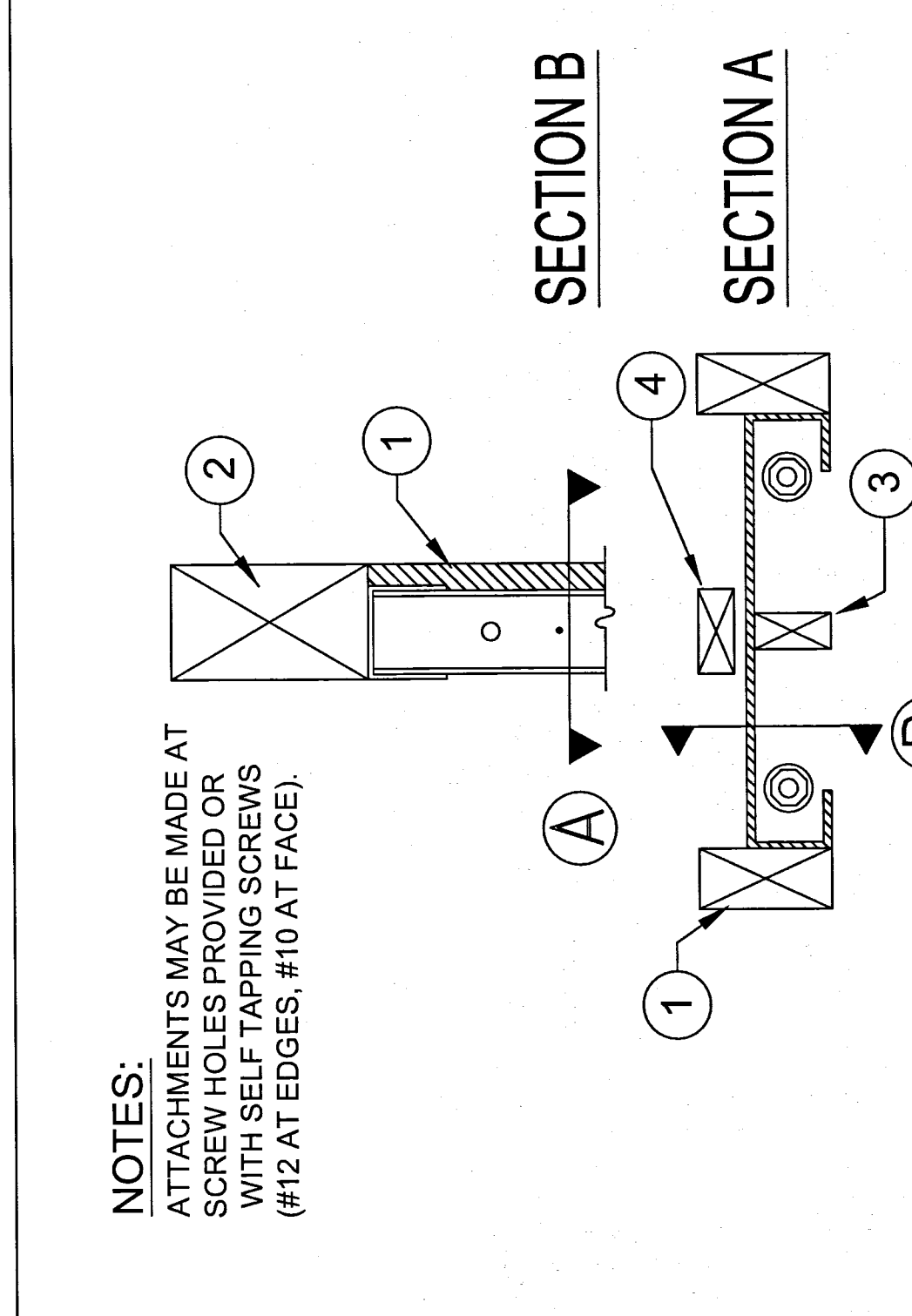
- SECTION G**
1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFXT1 FOR ANCHORAGE.

INSTALLATION ON FOUNDATION



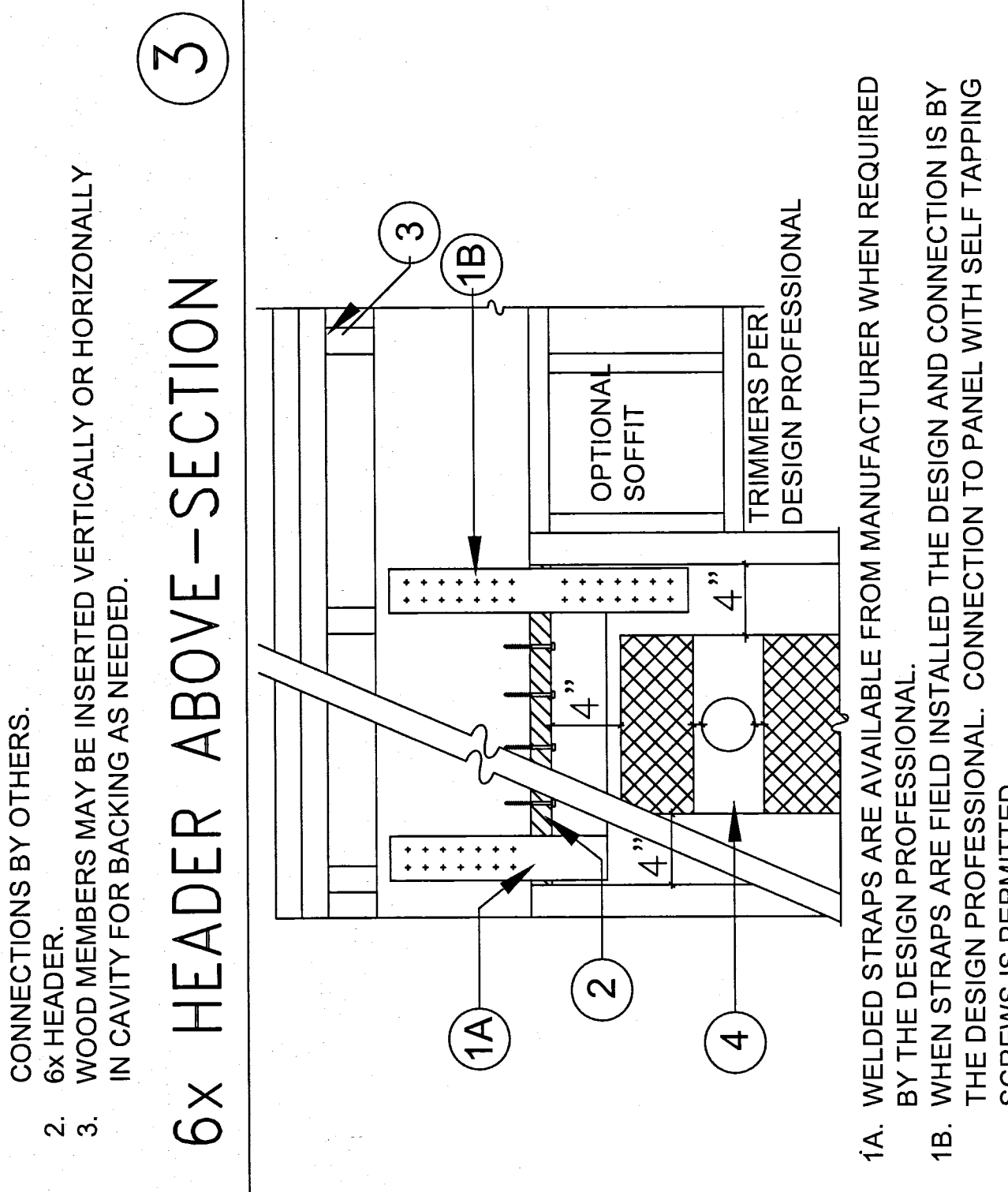
- SECTION H**
1. PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH MIN 5,000 PSI STRENGTH NON-SHRINK GROUT.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFXT1 FOR ANCHORAGE.

INSTALLATION ON NUTS & WASHERS



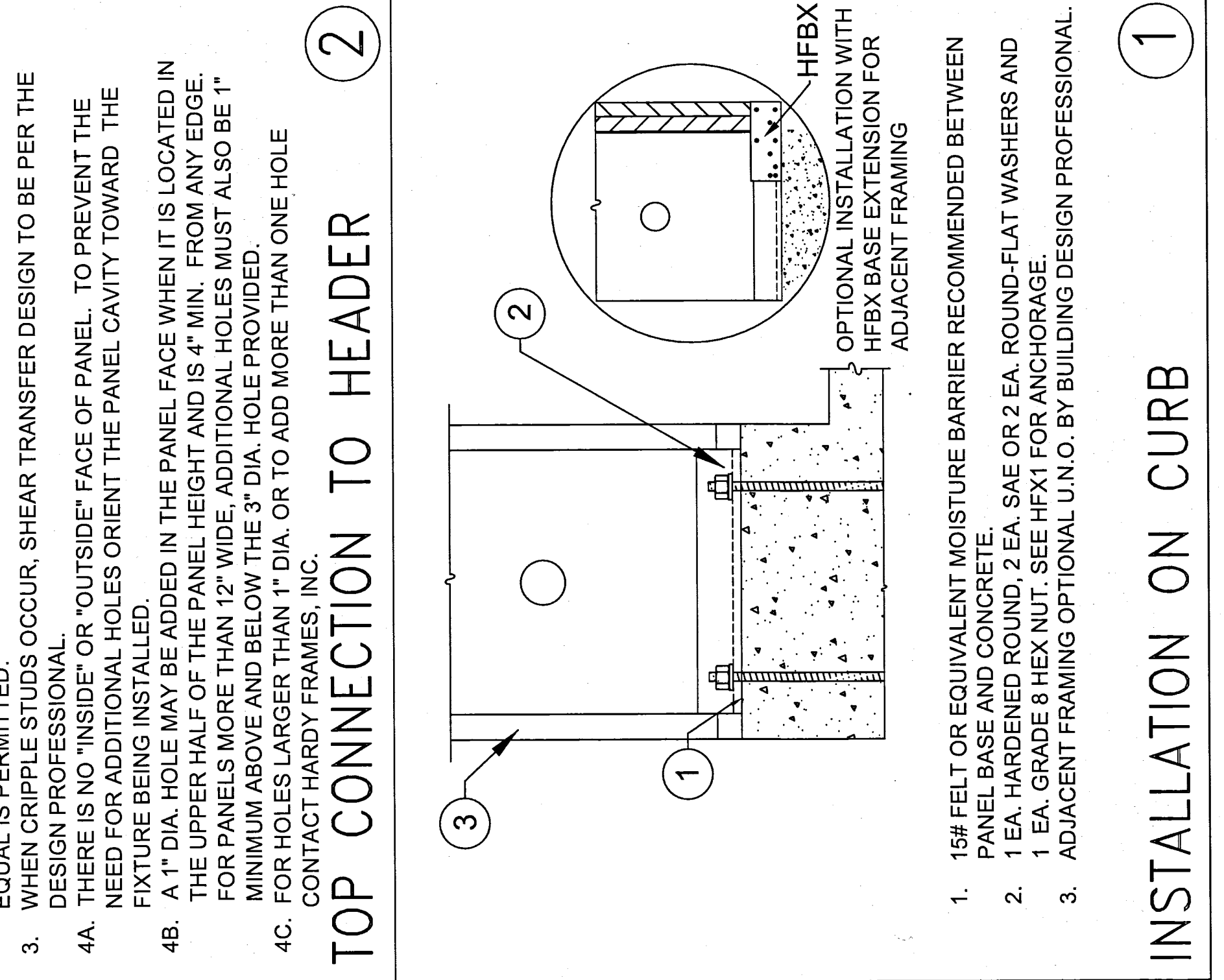
- SECTION I**
1. TRIMMERS PROVIDE FULL BEARING FOR HEADER ABOVE, DESIGN AND CONNECTIONS BY OTHERS.
 2. 6x HEADER.
 3. WOOD MEMBERS MAY BE INSERTED VERTICALLY OR HORIZONTALLY IN CAVITY FOR BACKING AS NEEDED.

6x HEADER ABOVE-SECTION



- SECTION J**
- 1A. WELDED STRAPS ARE AVAILABLE FROM MANUFACTURER WHEN REQUIRED BY THE DESIGN PROFESSIONAL.
 - 1B. WHEN STRAPS ARE FIELD INSTALLED THE DESIGN AND CONNECTION IS BY THE DESIGN PROFESSIONAL. CONNECTION TO PANEL WITH SELF TAPPING SCREWS IS PERMITTED.
 2. A 2x WOOD FILLER WITH 1/4" x 4-1/2" (MIN) USP "WS" SERIES SCREWS OR EQUAL IS PERMITTED.
 3. WHEN CRIPPLE STUDS OCCUR, SHEAR TRANSFER DESIGN TO BE PER THE DESIGN PROFESSIONAL.
 - 4A. THERE IS NO "INSIDE" OR "OUTSIDE" FACE OF PANEL. TO PREVENT THE NEED FOR ADDITIONAL HOLES ORIENT THE PANEL CAVITY TOWARD THE FIXTURE BEING INSTALLED.
 - 4B. A 1" DIA. HOLE BEING DRILLED IN THE PANEL FACE WHEN IT IS LOCATED IN THE UPPER HALF OF THE PANEL HEIGHT AND IS 4" MIN. FROM ANY EDGE. THE UPPER HALF OF THE PANEL HEIGHT AND IS 4" MIN. FROM ANY EDGE. MINIMUM ABOVE AND BELOW THE 3" DIA. HOLE PROVIDED.
 - 4C. FOR HOLES LARGER THAN 1" DIA. OR TO ADD MORE THAN ONE HOLE CONTACT HARDY FRAMES, INC.

TOP CONNECTION TO HEADER



- SECTION K**
1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFXT1 FOR ANCHORAGE.
 3. ADJACENT FRAMING OPTIONAL U.N.O. BY BUILDING DESIGN PROFESSIONAL.

INSTALLATION ON CURB

HFX-SERIES 78 IN. THRU 13 FOOT

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter ¹ (in)	Top Screw Qty ² (ea)	Screw Qty Available at Edges (ea) ³
HFX-9x79.5	78	79-1/2	1-1/8	9" Width = 5	4
HFX-12-15, 18, 21 & 24x8	82-1/4	93-3/4	1-1/8	12" Width = 6	5
HFX-12-15, 18, 21 & 24x9	104-1/4	116-1/4	1-1/8	15" Width = 8	6
HFX-15-18, 21 & 24x11	128-1/4	140-1/4	1-1/8	18" Width = 10	7
HFX-15-18, 21 & 24x12	140-1/4	152-1/4	1-1/8	21" Width = 12	8
HFX-15-18, 21 & 24x13	152-1/4	164-1/4	1-1/8	24" Width = 14	9

BALLOON PANELS

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter ¹ (in)	Top Screw Qty ² (ea)	Screw Qty Available at Edges (ea) ³
HFX-15-18, 21 & 24x14	164-1/4	176-1/4	1-1/8	15" Width = 8	6
HFX-15-18, 21 & 24x15	176-1/4	188-1/4	1-1/8	18" Width = 10	7
HFX-15-18, 21 & 24x16	188-1/4	200-1/4	1-1/8	21" Width = 12	8
HFX-15-18, 21 & 24x17	200-1/4	212-1/4	1-1/8	24" Width = 14	9
HFX-15-18, 21 & 24x18	212-1/4	224-1/4	1-1/8	24" Width = 14	9
HFX-15-18, 21 & 24x19	224-1/4	236-1/4	1-1/8	24" Width = 14	9
HFX-15-18, 21 & 24x20	236-1/4	248-1/4	1-1/8	24" Width = 14	9

1) Hold down bolts connect to the Panel base with (1 ea) Hardened Round (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 Hex Nut on each rod or as specified by the Building Design Professional.

2) 1/4" diameter USP-WS Series screws (or equal). Length is 3" (minimum) when attached directly to the collector and 4-1/2" (minimum) when installing a 2x filler above the Panel.

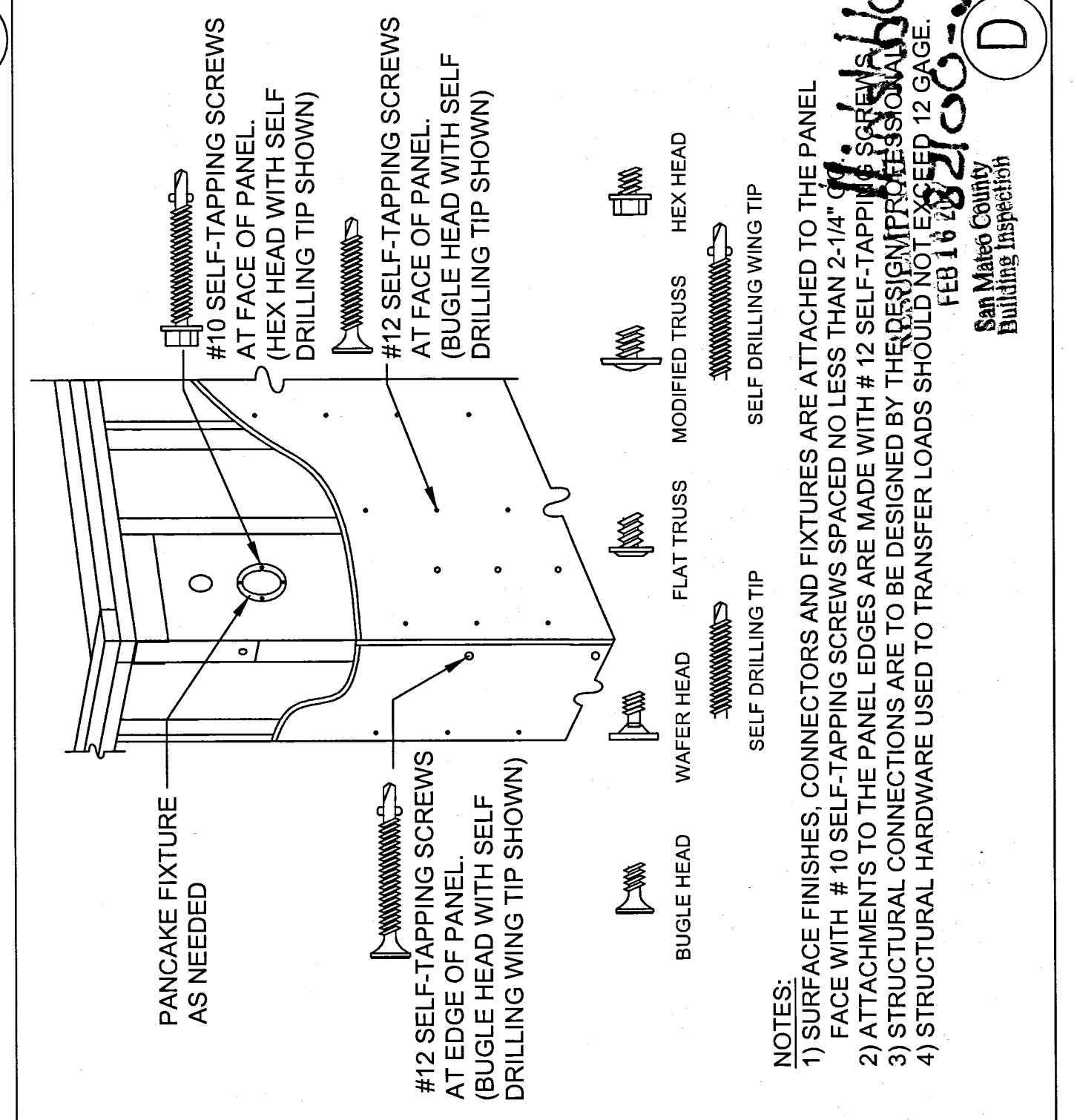
3) Adjacent framing with 1/4" diameter screws is required at the edges when installing a 4x filler above or when specified by the Design Professional.

INSTALLATION INSTRUCTIONS

A) When installing directly on concrete, place Panel over bolts and connect with (1 ea) Hardened Round, (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 or 2H Heavy Hex Nut. Secure with a deep socket (recommended) until "Snug Tight".

B) If bottom connection is not detailed on plans, confirm with Design Professional before installing on Nuts & Washers or on a Mudsill.

C) Use 1/4" x 4-1/2" USP-WS Series screws (or equal) at top connections with a 2x filler. If the top of Panel is in direct contact with the collector above (top plates, header, beam, etc.), use 1/4 x 3" (minimum) diameter screws to brace for the out-of-plane hinge or when they are specified by the Design Professional.

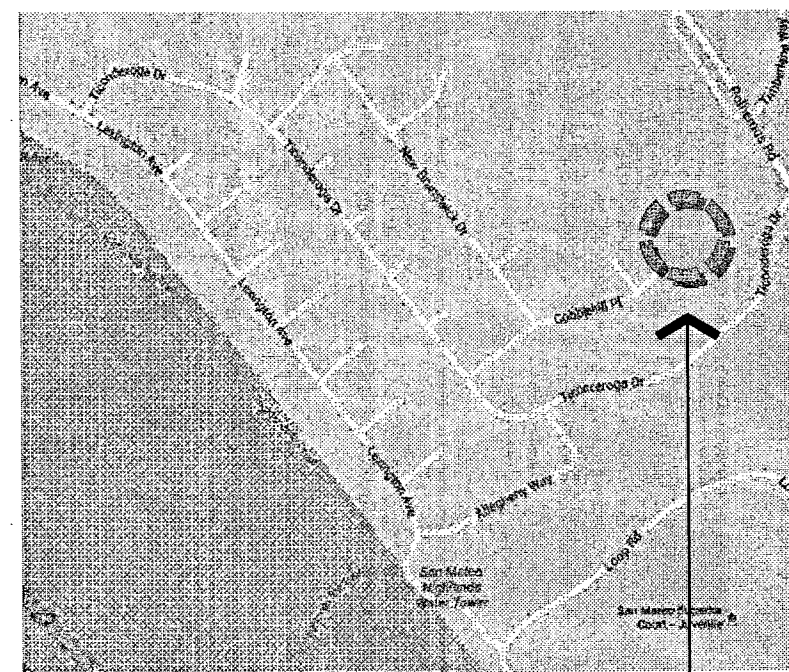


- NOTES:**
- 1) SURFACE FINISHES, CONNECTORS AND FIXTURES ARE ATTACHED TO THE PANEL.
 - 2) ATTACHMENTS TO THE PANEL EDGES ARE MADE WITH # 12 SELF-TAPPING SCREWS SPACED NO LESS THAN 2-1/4" FROM EDGES AND NO MORE THAN 12" GAGE.
 - 3) STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE DESIGN PROFESSIONAL.
 - 4) STRUCTURAL HARDWARE USED TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAGE.

HIGHLAND ESTATES

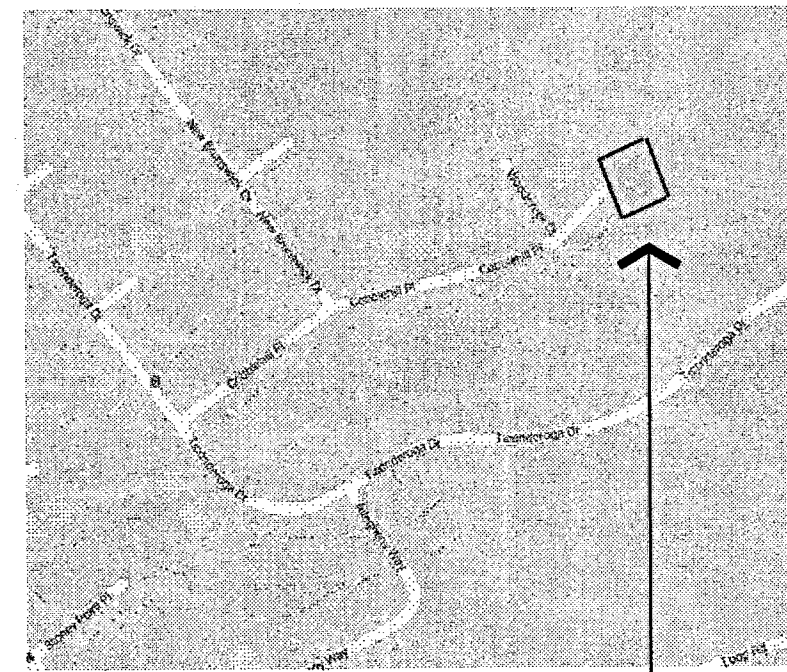
LOT 10 – LANDSCAPE PLANS

VICINITY MAP



SITE LOCATION

SITE MAP



SITE LOCATION

SHEET INDEX

SHEET NUMBER	SHEET TITLE
L0.0	COVER SHEET
L1.0	CALLOUT PLAN
L2.0	PLANTING PLAN
L3.0-L3.1	LANDSCAPE DETAILS
L4.0-L4.1	IRRIGATION PLAN & LEGEND
L4.2	HYDROZONE PLAN & WATER CALCS
L4.3-L4.6	IRRIGATION DETAILS
L5.0-L5.1	LANDSCAPE SPECIFICATIONS

REVISION LOG

DATE	SHEET NUMBER	DESCRIPTION

REVIEWED FOR COMPLIANCE
This review does not authorize violation of State or County building laws.

NOV 1 2019
SAN MATEO CO. LDG. INSP. DIV.

RESUBMITTAL
MAR 7 2017
San Mateo County Building Department

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595.5582



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
ZIP 94133 PH (415) 864-9211 FAX (415) 864-4796

PROJECT MANAGER:
DESIGNED BY:
CHECKED BY:

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
SAN MATEO CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS
LOT 10

REVISIONS:	NO.	DESCRIPTION	DATE

SHEET TITLE:
COVER SHEET

SCALE:
NTS
ISSUE DATE:
3/17/17
PROJECT NO.:

V1355
SHEET NO.:

L0.0
OF

CLIENT:
CHAMBERLAIN GROUP
 655 Skyway, Suite 230
 San Carlos, CA 94070
 (650) 985.5682



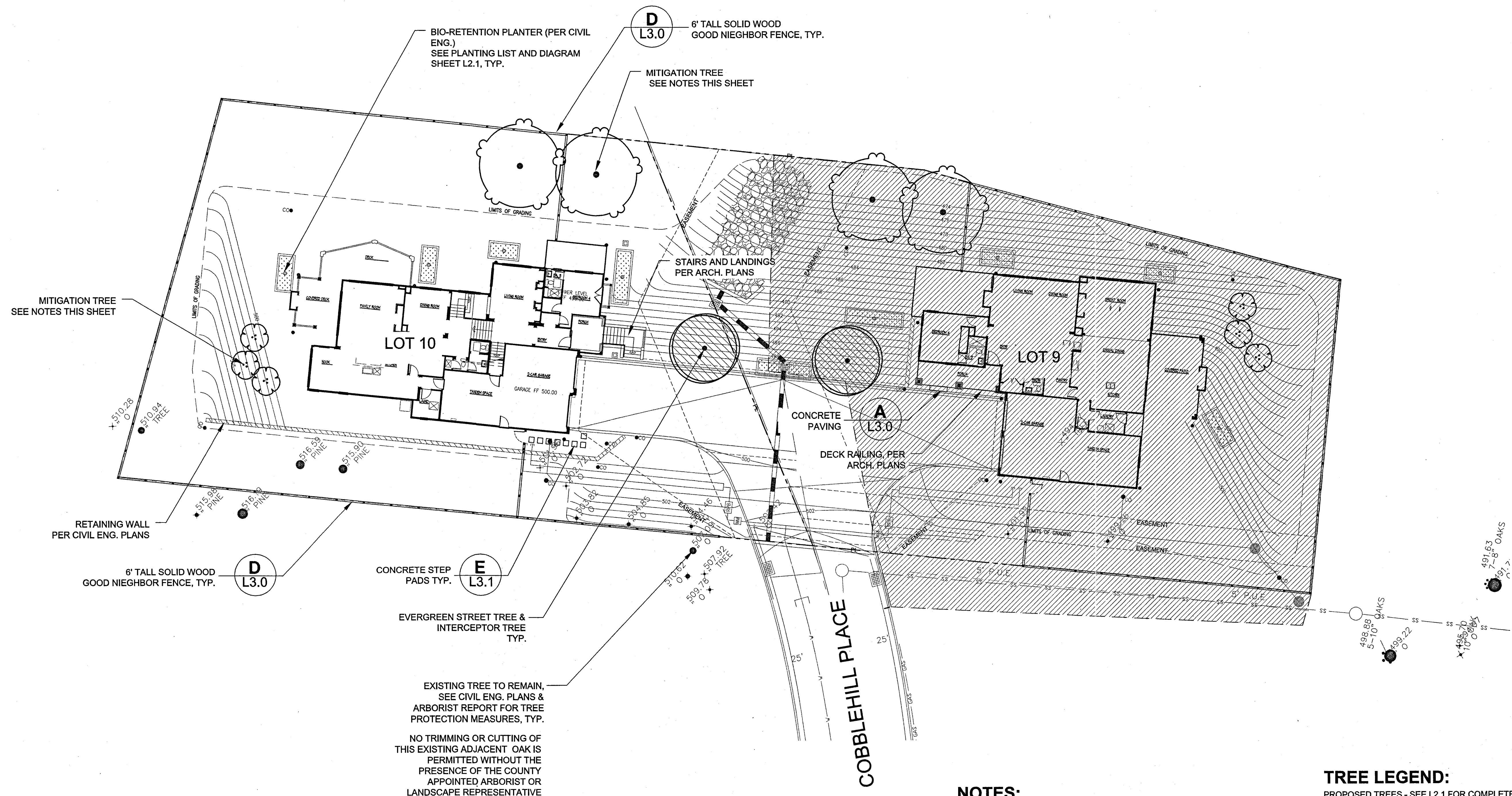
VAN DORN ABED
 LANDSCAPE ARCHITECTS, INC.
 81 14TH ST. SAN FRANCISCO, CA
 ZIP 94103 PH (415) 864-9521 FAX (415) 864-4976
 PROJECT MANAGER: MW
 DESIGNED BY: MW
 CHECKED BY: JA

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
 SAN MATEO CALIFORNIA
 DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS
LOT 10

REVISIONS:	NO.	DESCRIPTION	DATE

SHEET TITLE:
CALLOUT & LAYOUT PLAN
 SCALE:
1/16" = 1'-0"
 ISSUE DATE:
3/17/17
 PROJECT NO.:
V1355

SHEET NO.:
L1.0
 OF



REVIEWED FOR ODE COMPLIANCE
 This review does not authorize violation of State or County building laws.
 NOV 1 3 2019
 SAN MATEO CO. BLDG. INSP. DIV.
[Signature]

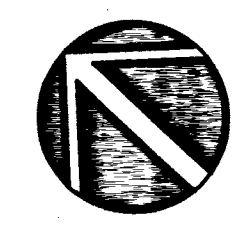
NOTES:

1. **NO PLANTING OR IRRIGATION SHALL OCCUR UNDER THE CANOPIES OF THE EXISTING OAK TREES. FIELD ADJUST NEW REPLACEMENT TREES AS NEEDED.**

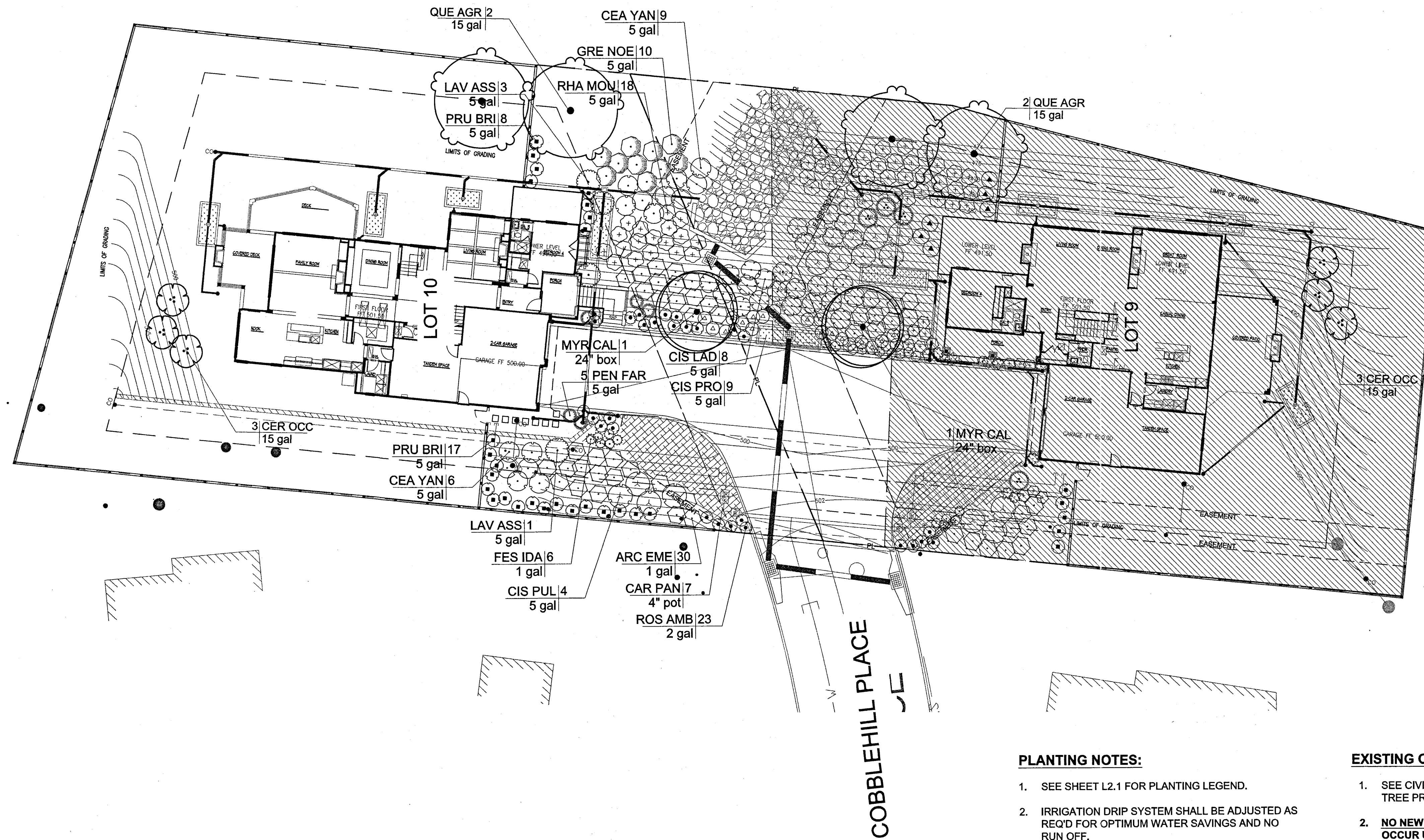
TREE LEGEND:

PROPOSED TREES - SEE L2.1 FOR COMPLETE TREE SPECIES/LEGEND

	QUALIFIES FOR STORMWATER CREDIT WHEN WITHIN 25' OF IMPERVIOUS SURFACE.
	TOTAL SITE (LOT 5-11): 22 MITIGATION TREES REQUIRED 49 MITIGATION TREES PROVIDED
	PROVIDED - LOT 9 - LOT 11: 3 = REAR YARD MITIGATION TREES MIN. PROVIDED PER COA AES-1B, EACH LOT
	14 TOTAL MITIGATION TREES, WITH MIN. 4 OAKS.
	EXISTING TREES TO REMAIN, TYP. SEE CIVIL PLANS AND ARBORISTS REPORT FOR TREE PROTECTION MEASURES.



FOR SUBMITTAL
 MAR 27 2017
 San Mateo County Building Department



COBBLEHILL PLACE
SE

PLANTING NOTES:

1. SEE SHEET L2.1 FOR PLANTING LEGEND.
2. IRRIGATION DRIP SYSTEM SHALL BE ADJUSTED AS REQ'D FOR OPTIMUM WATER SAVINGS AND NO RUN OFF.

EROSION CONTROL NOTES:

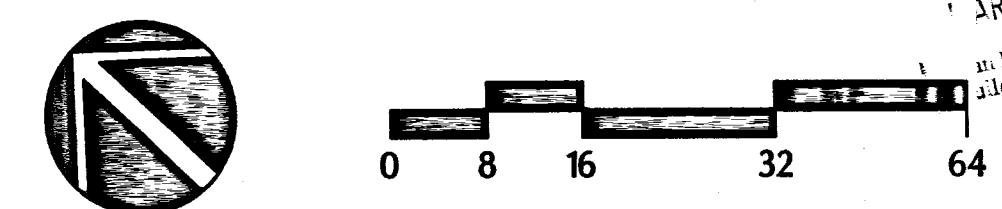
1. LEAVE EROSION CONTROL MAT ON ALL SLOPES. CUT HOLES FOR NEW SHRUBS/TREES AS NEEDED.
2. SEE CIVIL IMPROVEMENT PLANS, SHEET C10.10-C10.90 FOR COMPLETE EROSION CONTROL MEASURES.

EXISTING OAK TREE NOTES:

1. SEE CIVIL ENG. PLANS & ARBORIST REPORT FOR TREE PROTECTION MEASURES, TYP.
2. **NO NEW PLANTING OR IRRIGATION SHALL OCCUR UNDER ANY EXISTING OAK TREES. CONTRACTOR TO FIELD ADJUST AS NECESSARY.**
3. CONTRACTOR SHALL PROTECT EXISTING OAK TREES FROM IRRIGATION & ANY POTENTIAL IRRIGATION RUN OFF.
4. NATIVE LEAF LITTER MULCH SHALL REMAIN UNDER ALL EXISTING OAK TREES. IN ANY BARE AREAS UNDER TREES, CONTRACTOR SHALL APPLY A 3-INCH LAYER OF MULCH AROUND THE BASE OF OAK TREES. APPLY BROADLY. DO NOT PLACE MULCH IMMEDIATELY AGAINST THE TRUNK. KEEP MULCH CLEAR FROM THE TRUNK OF THE OAK TREE BY 12 INCHES.

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws
NOV 13 2019
SAN MATEO CO. BLDG. INSP. DIV.

SAN MATEO COUNTY WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE STATEMENT:
"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."
ZEKI ABED - LICENSED LANDSCAPE ARCHITECT



CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595.5592



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
ZIP 94103 PH (415) 864-9211 FAX(415) 864-4796
PROJECT MANAGER: MW
DRAFTED BY: MW
CHECKED BY: ZKA

CALIFORNIA
HIGHLAND ESTATES
SAN MATEO
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS
LOT 10

REVISIONS	NO.	DESCRIPTION	BY:	DATE

SHEET TITLE:
PLANTING PLAN
SCALE:
1/16" = 1'-0"
ISSUE DATE:
3/17/17
PROJECT NO.:
V1355

SHEET NO.:
L2.0
OF

RE: SUBMITTAL
APR 27 2017
San Mateo County Building Inspection

BIO-RETENTION PLANTERS ON THE NORTH & NORTHEAST SIDES OF BUILDINGS

- 5 GAL CORNUS SERICEA "ISANTI" QTY: 1
- 1 GAL CAREX PRAEGRACILUS QTY: CAN-TO-CAN FULL
- ALTERNATIVE:
- 5 GAL CARPENTERIA CALIFORNICA QTY: 1
- 1 GAL CAREX PRAEGRACILUS QTY: CAN-TO-CAN FULL

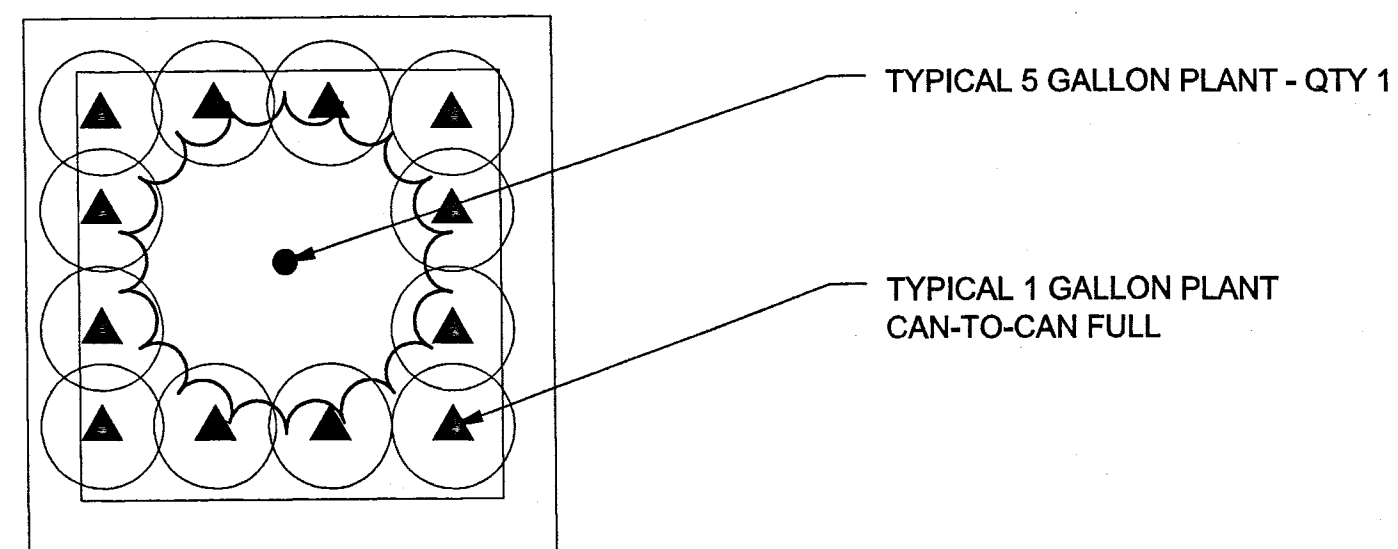
BIO-RETENTION PLANTERS ON THE SOUTH & SOUTHWEST SIDES OF BUILDINGS

- 5 GAL MUHLENBERGIA RIGENS QTY: 1
- 1 GAL MIMULUS AURANTIACUS & CAREX PRAEGRACILUS (ALTERNATING) QTY: CAN-TO-CAN FULL

NOTES:

1. CONTRACTOR TO HAND WATER PLANTS IN BIO-RETENTION PLANTERS UNTIL ESTABLISHED.
2. SEE CIVIL ENGINEER'S PLANS AND SPECIFICATIONS FOR BIO-RETENTION SOIL MIX.
3. PLANT SPECIES LISTED ABOVE ARE APPROVED FOR USE IN BIO-PLANTERS PER THE SAN MATEO COUNTY STORMWATER MEASURES PLANT LIST

PLANTING DIAGRAM:



TREE PLANTING LIST (lots 5-11)

TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	QTY	WUCOLS	REMARKS
	ARC MAN	Arctostaphylos manzanita MULTI-TRUNK	Manzanita	15 gal	8	L	Multi-Trunk/Native Mitigation tree
	CER OCC	Cercis occidentalis - MULTI-TRUNK	Western Redbud	15 gal	22	L	Multi-trunk/Native Mitigation Tree
	HET AR2	Heteromeles arbutifolia	Toyon	24"box	8	L	Evergreen/Native Mitigation Tree (Interceptor Tree) Min. install size 9' tall x 5' wide
	MYR CA2	Myrica californica	Pacific Wax Myrtle	15 gal	2	L	Evergreen/Native Tree
	MYR CAL	Myrica californica	Pacific Wax Myrtle	24"box	4	L	Evergreen Tree/Native Tree (Interceptor Tree) Min. install size 9' tall x 5' wide
	QUE AGR	Quercus agrifolia	Coast Live Oak	15 gal	5	L	Single-Trunk/Native Mitigation tree
	SAM MEX	Sambucus mexicana - MULTI-TRUNK	Mexican Elderberry	15 gal	5	L	Multi-Trunk/Native Mitigation tree

SHRUB/GROUNDCOVER PLANTING LIST (Lots 5-11)

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	IRRIGATION/WATER USE
	ACA COG	Acacia cognata 'Cousin It'	River Wattle	5 gal	17	L
	ALY MON	Alyogyne huegelii 'Monterey Bay'	Blue Hibiscus	5 gal	11	L
	ARB ELF	Arbutus unedo 'Elfin King'	Dwarf Strawberry Tree	5 gal	8	L
	ARC EME	Arctostaphylos x 'Emerald Carpet'	Emerald Carpet Manzanita	1 gal	121	L
	CEA YAN	Ceanothus griseus horizontalis 'Yankee Point'	California Lilac	5 gal	102	L
	CEA CON	Ceanothus x 'Concha'	California Lilac	5 gal	7	L
	CIS LAD	Cistus ladanifer	Crimson Spot Rockrose	5 gal	31	L
	CIS PUL	Cistus pulverulentus 'Sunset'	Rockrose	5 gal	34	L
	CIS PRO	Cistus salvifolius 'Prostratus'	Sageleaf Rockrose	5 gal	54	L
	CIS HYB	Cistus x hybridus	White Rockrose	5 gal	58	L
	CIT MEY	Citrus x meyeri	Meyer Lemon	5 gal	3	L
	DIE BIC	Diets bicolor	Fortnight Lily	1 gal	46	L
	ERI WAY	Erigeron glaucus 'Wayne Roderick'	Seaside Daisy	1 gal	36	L
	GRE NOE	Grevillea x 'Noellii'	Grevillea	5 gal	45	L
	LAV ASS	Lavatera assurgentiflora	Mallow	5 gal	9	L
	PEN FAR	Pennisetum x 'Fairy Tails'	Evergreen Fountain Grass	5 gal	12	L
	PIT TEN	Pittosporum tenuifolium 'Marjorie Channon'	Tawhiwhi	5 gal	30	L
	PIT CRE	Pittosporum tobira 'Cream De Mint' TM	Cream De Mint Dwarf Mock Orange	5 gal	15	L
	PIT WHE	Pittosporum tobira 'Wheeler's Dwarf'	Wheeler's Dwarf Mock Orange	5 gal	34	L
	PRU BRI	Prunus caroliniana 'Bright 'N Tight' TM	Bright 'N Tight Carolina Laurel	5 gal	44	L
	RHA MOU	Rhamnus californica 'Mound San Bruno'	California Coffeeberry	5 gal	120	L
	RHA SEA	Rhamnus californica 'Seaview'	California Coffee Berry	5 gal	22	L
	ROS AMB	Rosa x 'Flower Carpet Amber'	Amber Carpet Rose	2 gal	65	L
	ROS RED	Rosa x 'Flower Carpet Red'	Rose	2 gal	35	L
	WES MOR	Westringia fruticosa 'Morning Light'	Morning Light Coast Rosemary	5 gal	9	L

GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	FES IDA	Festuca idahoensis	Idaho Fescue	1 gal	67	L

GROUNDCOVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	REMARKS
	CAR PAN	Carex pansa	Sanddune Sedge	4" pot	8" o.c.	13 sf	L REVIEWED FOR CO. COMPLIANCE This review does not authorize violation of State or County building laws.

PLANTING QUANTITIES SHOWN L2.1 ARE TOTAL QUANTITIES FOR LOTS 5-11. SEE L2.0 FOR INDIVIDUAL LOT PLANTING PLANS.

NOV 13 2019
SAN MATEO CO. F. DG. INSP. DIV.
[Signature]

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595.5582



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
94103 PH (415) 864-1921 FAX (415) 864-4796
PROJECT MANAGER: *[Signature]*
DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

REVISIONS:	NO.	DATE	DESCRIPTION

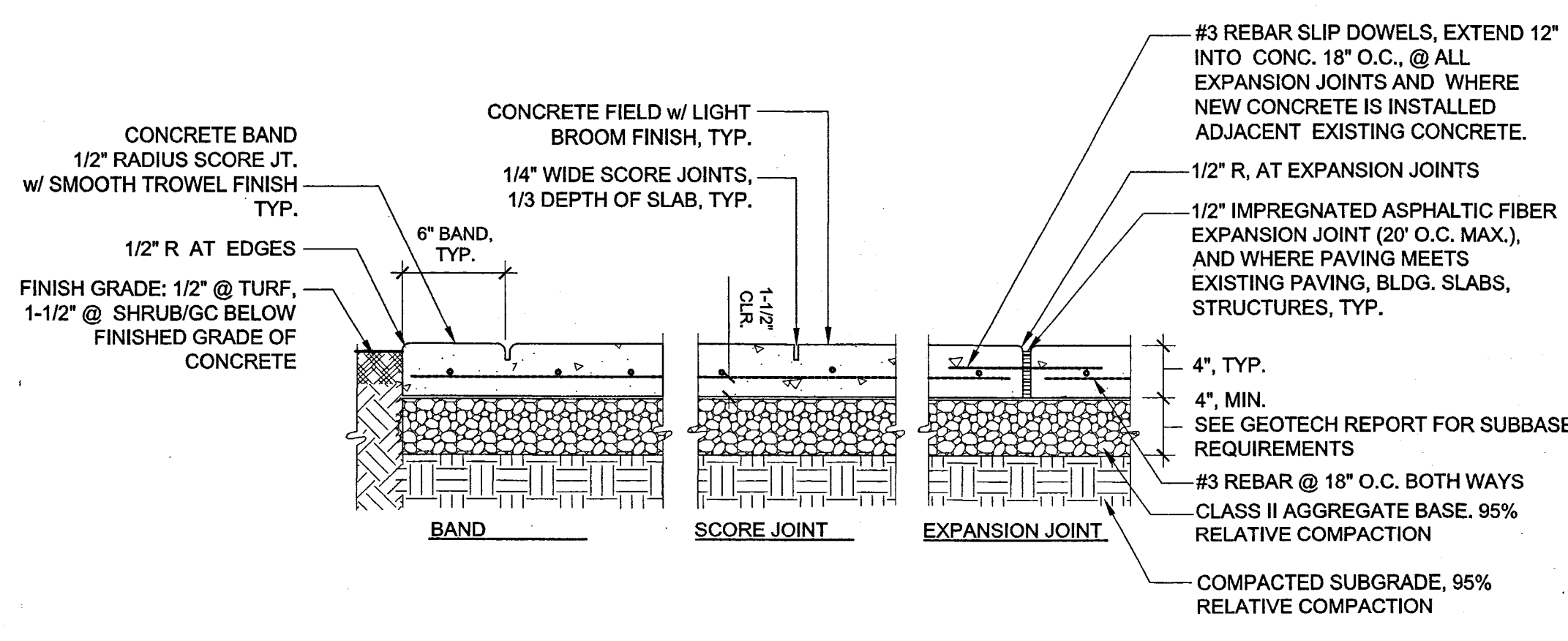
PLANTING LEGEND

SCALE:
NTS
ISSUE DATE:
3/17/17
PROJECT NO.:
V1355

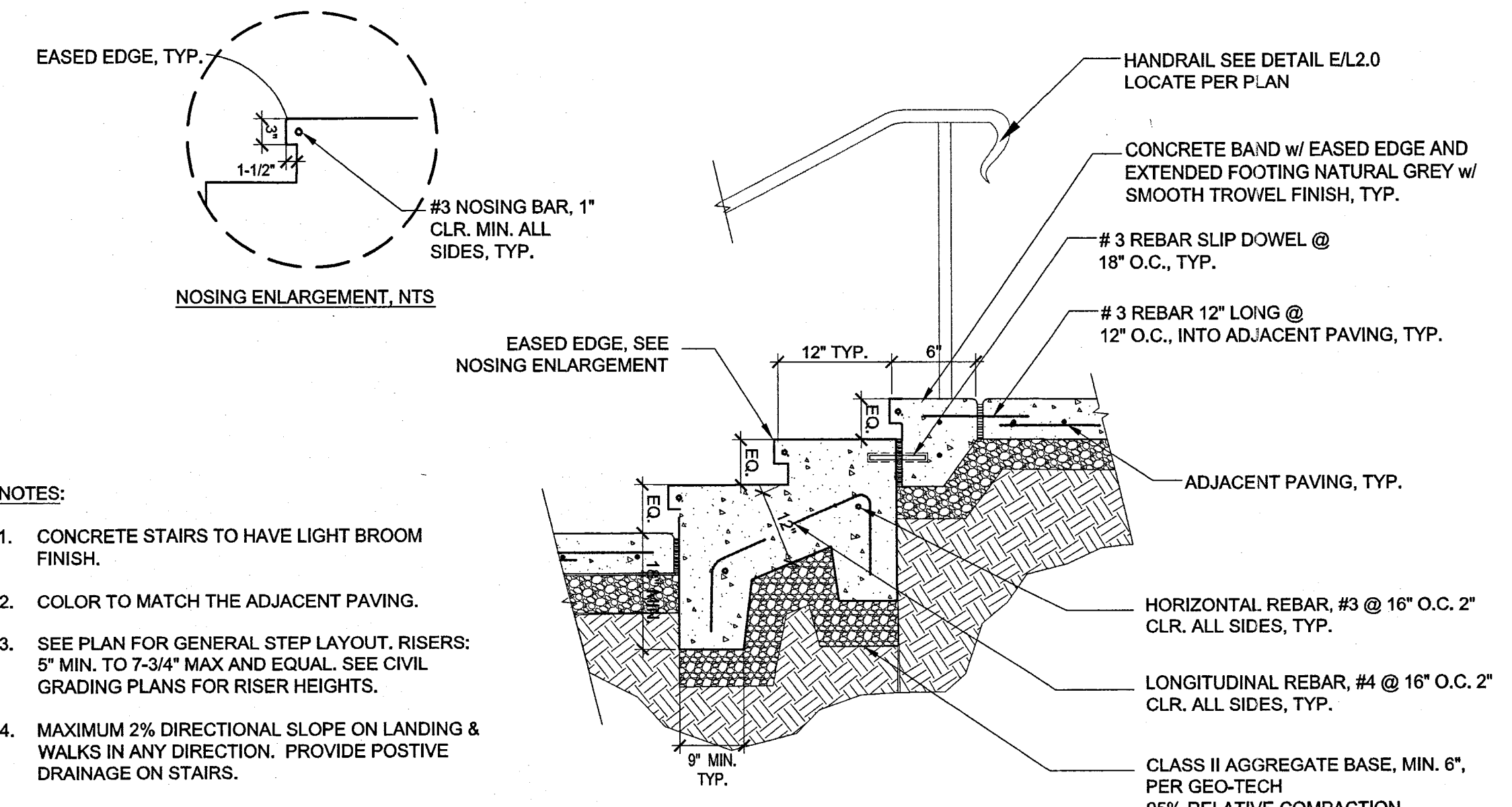
SHEET NO.:
L2.1
OF

RESUBMITTAL
11/27/2017
San Mateo County
Building Department

A CONCRETE PAVING
1" - 1'-0"



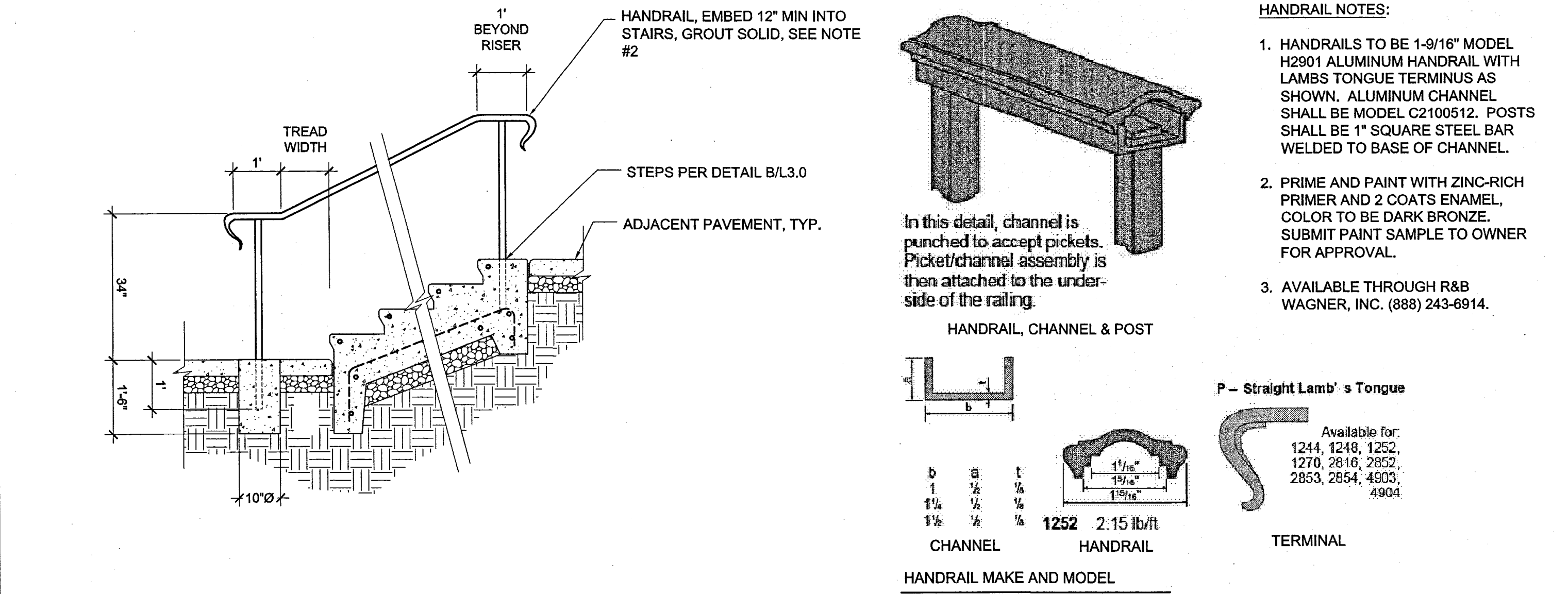
B CONCRETE STEPS
3/4" - 1'-0"



- NOTES:
- CONCRETE STAIRS TO HAVE LIGHT BROOM FINISH.
 - COLOR TO MATCH THE ADJACENT PAVING.
 - SEE PLAN FOR GENERAL STEP LAYOUT. RISERS: 5" MIN. TO 7-3/4" MAX AND EQUAL. SEE CIVIL GRADING PLANS FOR RISER HEIGHTS.
 - MAXIMUM 2% DIRECTIONAL SLOPE ON LANDING & WALKS IN ANY DIRECTION. PROVIDE POSITIVE DRAINAGE ON STAIRS.

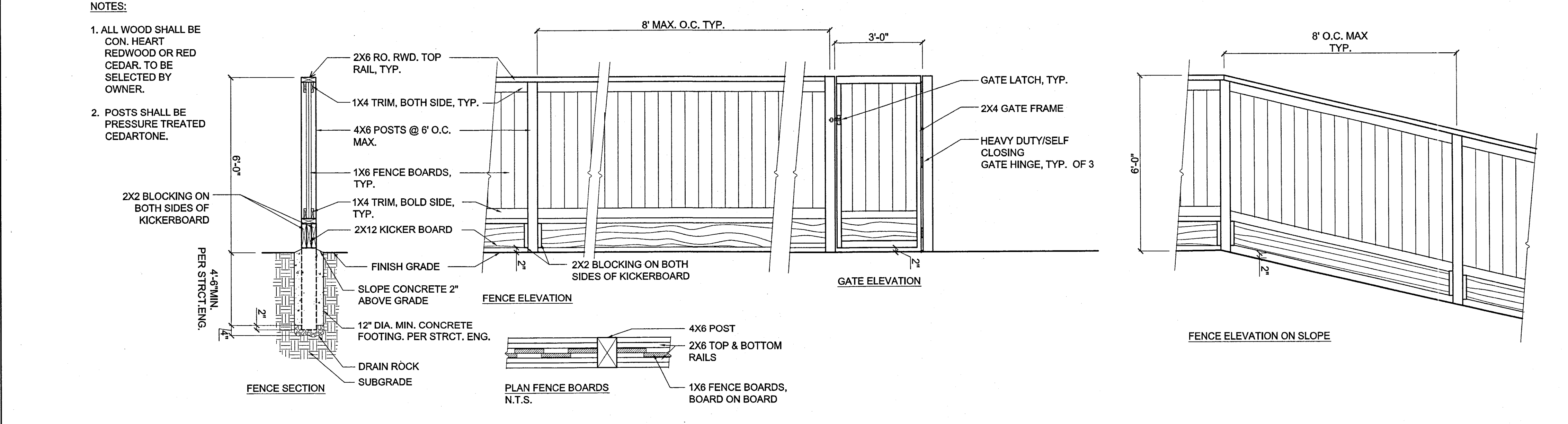
- CONCRETE NOTES:
- SCORING PATTERN TO MEET ALL ACI INTERNATIONAL GUIDELINES.
 - ALL FORMWORK/SCORING/PROPOSED JOINT SPACING TO BE APPROVED AND REVIEWED BY OWNERS' REPRESENTATIVE PRIOR TO POURING.
 - ALL SCORING/CONTRACTION JOINTS TO BE MINIMUM 1/3 DEPTH OF SLAB.
 - DISTANCE BETWEEN CONTRACTION JTS TO BE MAXIMUM 24 TIMES SLAB THICKNESS. ALL CONTRACTION JTS TO BE CONTINUOUS, NOT STAGGERED OR OFFSET. REFER TO ACI INTL. CCS-1 SERIES GUIDELINES FOR ALL CONCRETE WORK. ANY DISCREPANCIES WITH DRAWINGS TO BE BROUGHT TO ATTENTION OF OWNER/ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
 - CONCRETE PANELS TO BE AS SQUARE AS PRACTICAL. NEVER MAKE LONG SIDE MORE THAN 1-1/2 TIMES LENGTH OF SHORT SIDE. NO ONE PANEL TO BE MORE THAN 100 SQ. FT.
 - INSTALL EXPANSION JOINTS WHERE NEW PAVING MEETS EXISTING PAVING, WALLS, CURBS, FOUNDATIONS, OR OTHER FIXED OBJECTS, AND CHANGES IN WALK DIRECTIONS.
 - CONCRETE COLOR TO BE NATURAL GRAY.
 - BROOM FINISH SHALL BE PERPENDICULAR TO PATH OF TRAVEL.
 - CONTRACTOR SHALL COORDINATE INSTALLATION OF REBAR SLIP DOWELS WHERE DRIVEWAY MEETS GARAGE CONCRETE PAD WITH OWNER'S REPRESENTATIVE AND PROJECT STRUCTURAL ENGINEER. DOWELS SHALL BE #4 REBAR SPACED 24" O.C. EXTENDING 12" INTO DRIVEWAY AND GARAGE PAD, OR AS SPECIFIED BY STRUCTURAL ENGINEER. CONTRACTOR SHALL ONLY INSTALL REBAR DOWELS IF APPROVED BY OWNER'S REPRESENTATIVE AND PROJECT STRUCTURAL ENGINEER. SUBMIT TO OWNER'S REPRESENTATIVE PROPOSED DOWEL LOCATIONS.
 - FOR ALL PAVING DETAILS SHOWN, THE PAVING PROFILE, AGGREGATE, SUBBASE PREPARATION & COMPACTION PER GEOTECH ENGINEER, TYP. PROFILES ARE SHOWN FOR DESIGN INTENT & BIDDING PURPOSES ONLY. SEE GEOTECH REPORT FOR PAVING & SUBBASE REQUIREMENTS.

C HANDRAIL
1/2" - 1'-0"



- HANDRAIL NOTES:
- HANDRAILS TO BE 1-9/16" MODEL H2901 ALUMINUM HANDRAIL WITH LAMBS TONGUE TERMINUS AS SHOWN. ALUMINUM CHANNEL SHALL BE MODEL C2100512. POSTS SHALL BE 1" SQUARE STEEL BAR WELDED TO BASE OF CHANNEL.
 - PRIME AND PAINT WITH ZINC-RICH PRIMER AND 2 COATS ENAMEL. COLOR TO BE DARK BRONZE. SUBMIT PAINT SAMPLE TO OWNER FOR APPROVAL.
 - AVAILABLE THROUGH R&B WAGNER, INC. (888) 243-6914.

D 6' TALL WOOD FENCE & GATE
NTS



REVIEWED FOR COMPLIANCE
This review does not authorize violation of State or Court building laws.

NOV 1 2019

SAN MATEO CO. LDG. INSP. DIV.

RE: SUBMITTAL
11/27/2017
San Mateo County Building Inspection

CLIENT: CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 696-5502

800.227.2600

VAN DORN ABED LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
94103 PH (415) 864-9211 FAX (415) 864-4796

PROJECT MANAGER: M.W.
DRAWN BY: M.W.
CHECKED BY: J.A.

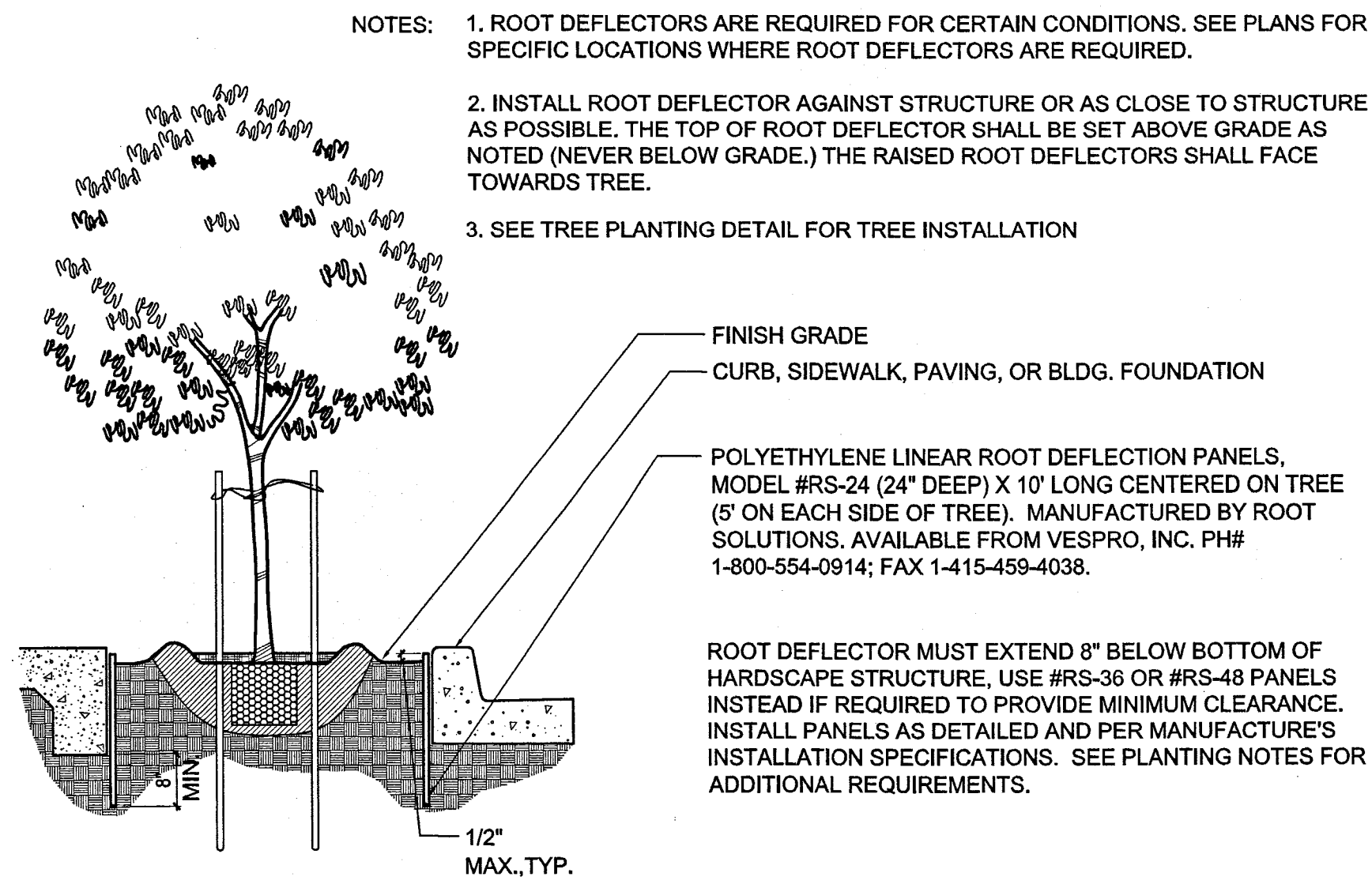
HIGHLAND ESTATES CALIFORNIA
LANDSCAPE IMPROVEMENT PLANS

PROJECT NAME/LOCATION: HIGHLAND ESTATES CALIFORNIA
DRAWING TITLE: LANDSCAPE IMPROVEMENT PLANS

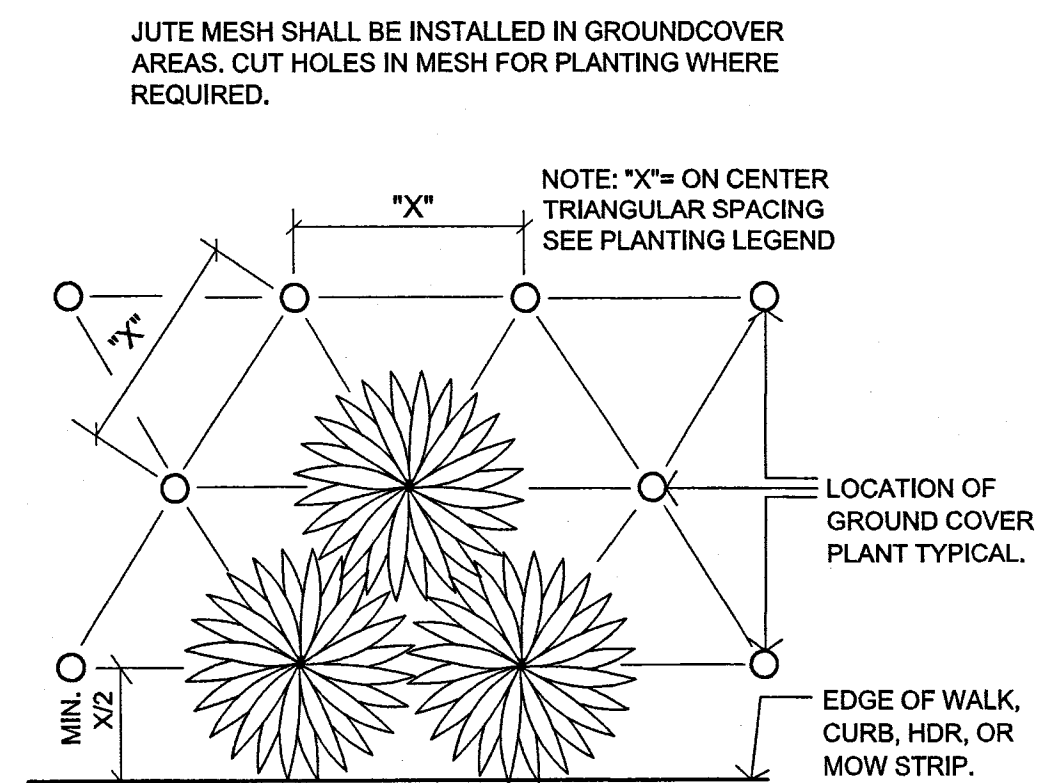
NO. DESCRIPTION DATE BY:

REVISIONS:

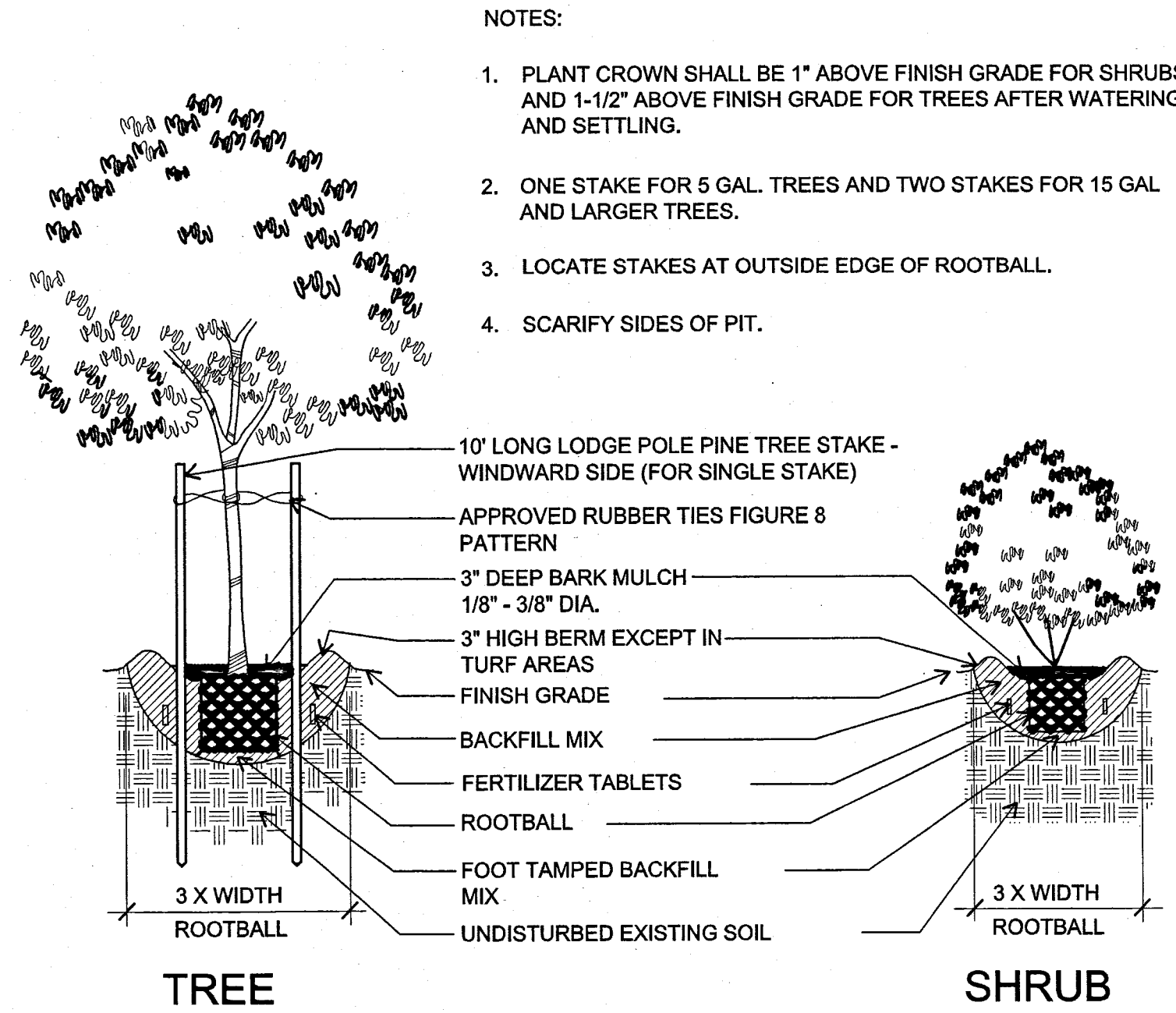
SCALE: AS NOTED
ISSUE DATE: 3/17/17
PROJECT NO.: V1355
SHEET NO.: L3.0



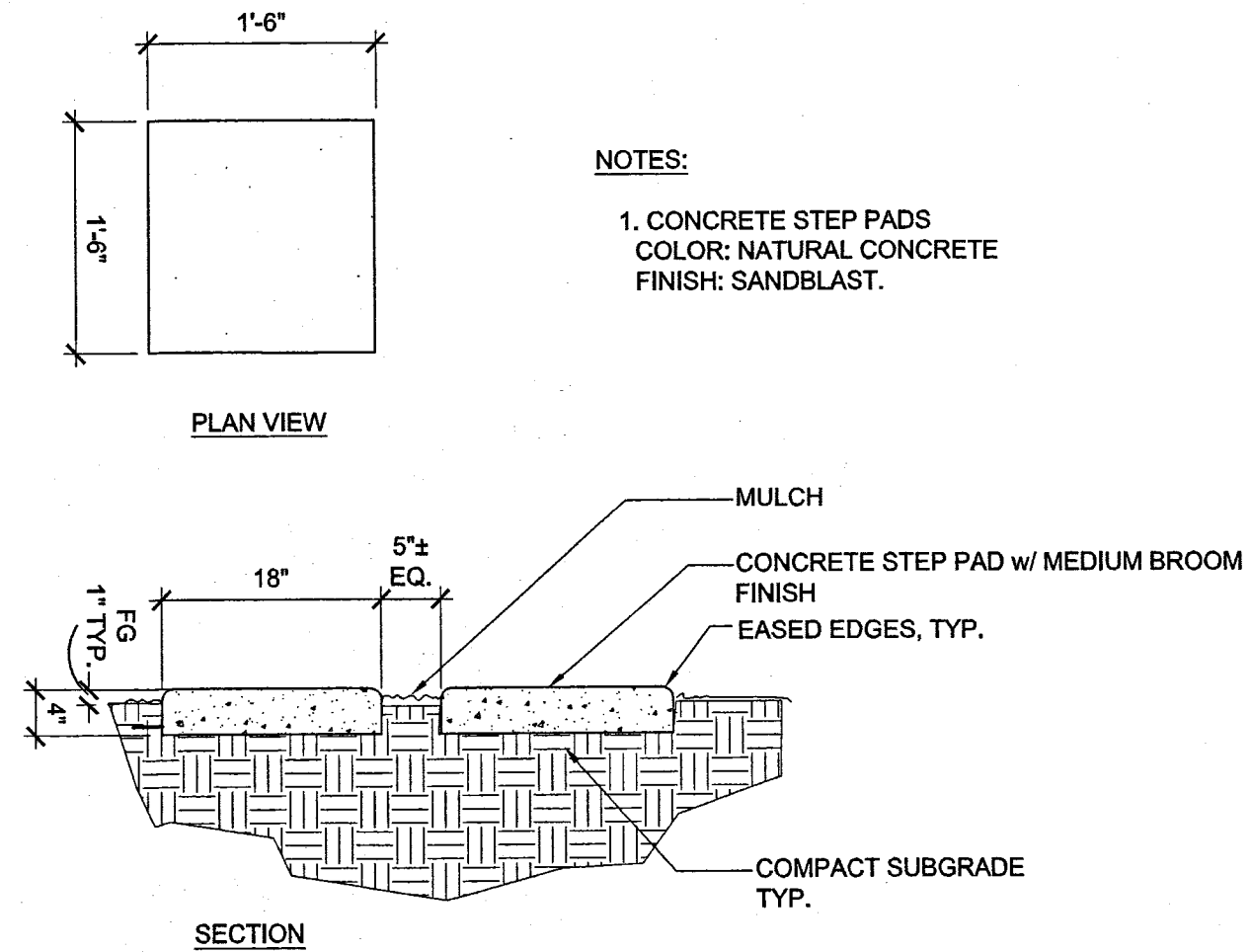
A ROOT DEFLECTOR
NTS



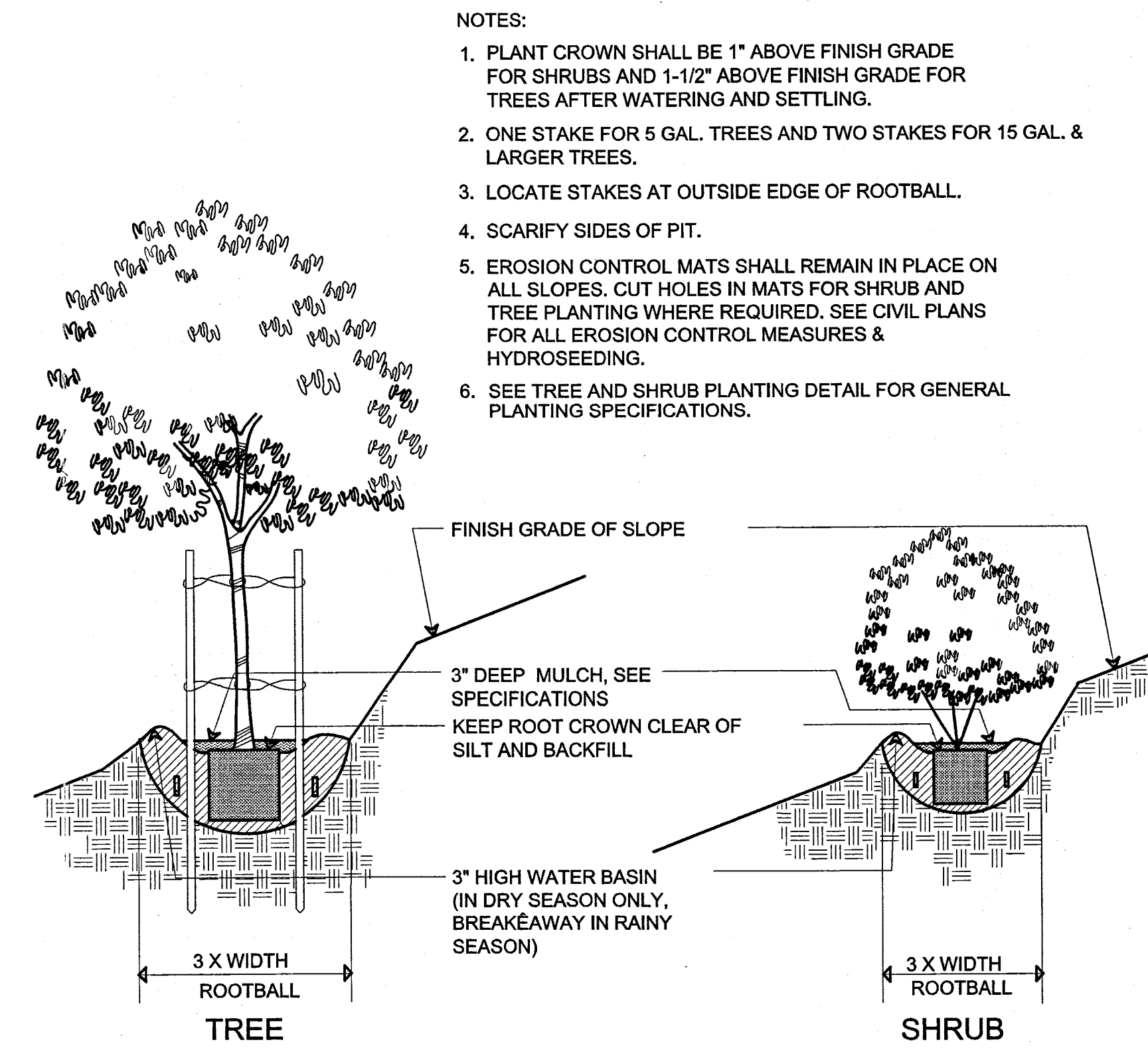
D GROUND COVER PLANTING
NTS



B TREE AND SHRUB PLANTING
NTS



E CONCRETE STEP PADS
3/4\"/>



C HILLSIDE TREE AND SHRUB PLANTING
NTS

- NOTES:
1. PLANT CROWN SHALL BE 1\"/>
 - 2. ONE STAKE FOR 5 GAL. TREES AND TWO STAKES FOR 15 GAL. AND LARGER TREES.
 - 3. LOCATE STAKES AT OUTSIDE EDGE OF ROOTBALL.
 - 4. SCARIFY SIDES OF PIT.

- NOTES:
1. PLANT CROWN SHALL BE 1\"/>
 - 2. ONE STAKE FOR 5 GAL. TREES AND TWO STAKES FOR 15 GAL. & LARGER TREES.
 - 3. LOCATE STAKES AT OUTSIDE EDGE OF ROOTBALL.
 - 4. SCARIFY SIDES OF PIT.
 - 5. EROSION CONTROL MATS SHALL REMAIN IN PLACE ON ALL SLOPES. CUT HOLES IN MATS FOR SHRUB AND TREE PLANTING WHERE REQUIRED. SEE CIVIL PLANS FOR ALL EROSION CONTROL MEASURES & HYDROSEEDING.
 - 6. SEE TREE AND SHRUB PLANTING DETAIL FOR GENERAL PLANTING SPECIFICATIONS.

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
NOV 13 019
SAN MATEO CO. BLDG. INSP. DIV.
[Signature]

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 696-5682



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
ZIP 94103 PH (415) 864-9021 FAX(415) 864-0796
LICENSED LANDSCAPE ARCHITECT
ALL DRAWINGS SUBJECT TO THE PROVISIONS OF THE PROFESSIONAL LANDSCAPE ARCHITECTS ACT AND THE REGULATIONS OF THE BOARD OF PROFESSIONAL LANDSCAPE ARCHITECTS
PROJECT MANAGER: MW
DRAFTED BY: MW
CHECKED BY: PZA

PROJECT NAME/LOCATION:
HIGHLAND ESTATES CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	DESCRIPTION	DATE

SHEET TITLE:
LANDSCAPE DETAILS
SCALE:
AS NOTED
ISSUE DATE:
3/17/17
PROJECT NO.:
V1355
SHEET NO.:

L3.1

REF SUBMITTAL
12 27 2017
San Mateo County Building Inspection

GENERAL NOTES:

- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE, UNLESS OTHERWISE NOTED. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
- CONTRACTOR SHALL PERFORM PRESSURE TESTS (STATIC & DYNAMIC) AND FLOW TESTS (GPM) AT POINT OF CONNECTION (P.O.C.) PRIOR TO BEGINNING WORK. SEE IRRIGATION NOTES FOR PRESSURE AND FLOW TEST REQUIREMENTS AND PROCEDURES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CORRECTIVE MEASURES REQUIRED TO IRRIGATION SYSTEM, AT NO ADDITIONAL COST TO THE OWNER, IF IRRIGATION SYSTEM IS INSTALLED WITHOUT REQUIRED TESTS, AND DISCREPANCIES IN PRESSURE AND FLOW AT THE P.O.C. ARE DISCOVERED THAT PREVENT THE IRRIGATION SYSTEM FROM FUNCTIONING CORRECTLY.

WATER PRESSURE AT P.O.C. NOTES:

- CONTRACTOR SHALL VERIFY WATER PRESSURE ON SITE. IF PRESSURE IS 65 PSI OR HIGHER AT P.O.C., CONTRACTOR SHALL INSTALL A PRESSURE REDUCER AS SHOWN, AND SET PRESSURE REDUCER TO 65 PSI. PRESSURE REDUCER SHALL BE 1-1/4" WILKINS LEAD FREE 500XL-YSBR (INCLUDES PRESSURE REDUCER & FILTER), SEE IRRIGATION DETAILS.
- IF PRESSURE IS LESS THAN 65 PSI OMIT PRESSURE REDUCER.
- IF PRESSURE IS LESS THAN 55 PSI NOTIFY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR CORRECTIVE MEASURES.

SLEEVE NOTES:

- FOR DESIGN CLARITY, NOT ALL SLEEVES SHOWN. CONTRACTOR SHALL SLEEVE ALL PIPES CROSSING UNDER PAVED AREAS.
- WHERE LATERAL LINES WITH SLEEVES CROSS ROADS OR DRIVEWAYS, CONTRACTOR SHALL INSTALL ONE SPARE 4" CLASS 315 PVC SLEEVE.
- WHERE MAIN LINES WITH SLEEVES CROSS ROADS OR DRIVEWAYS, CONTRACTOR SHALL INSTALL ONE SPARE 6" CLASS 315 PVC SLEEVE.

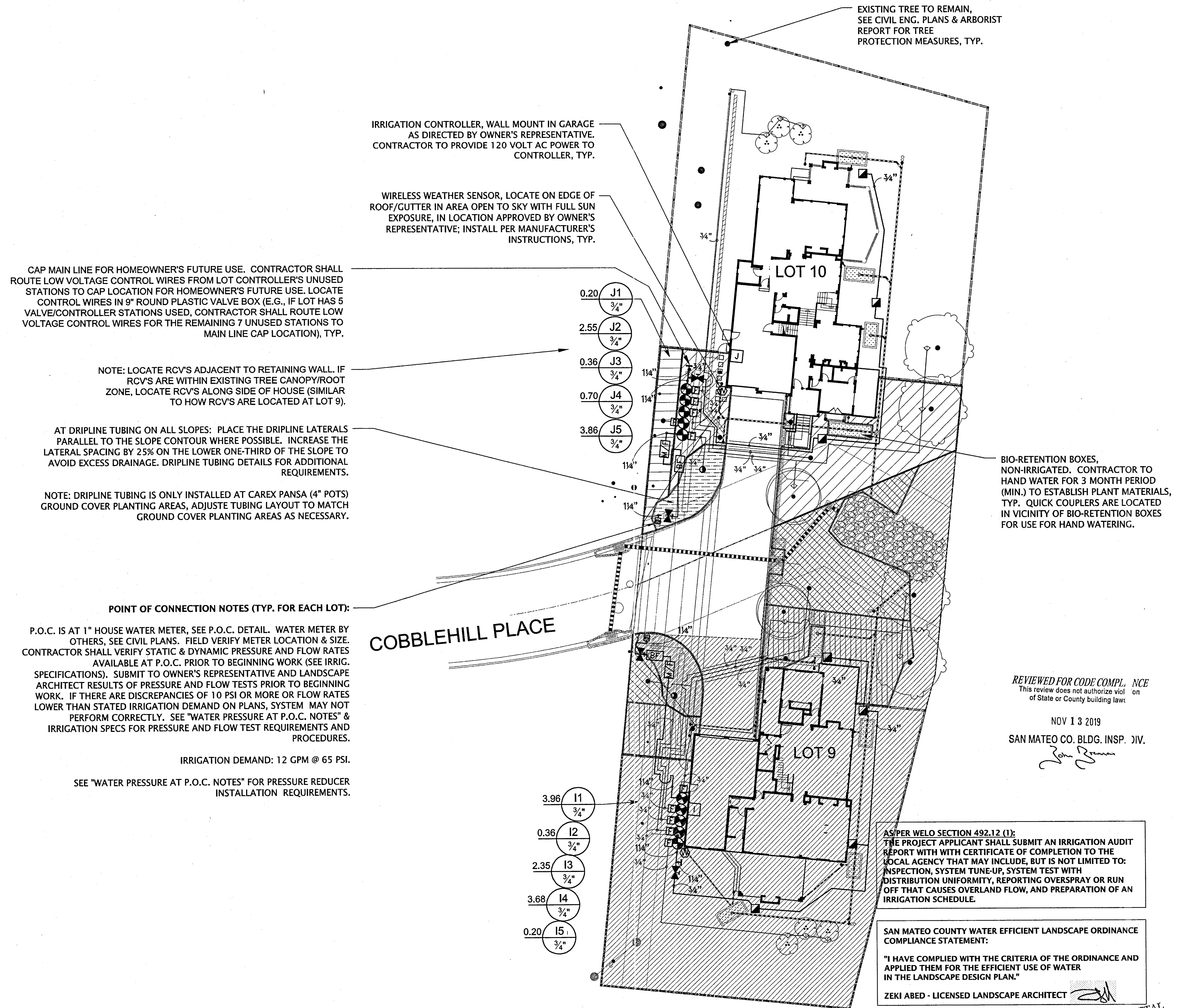
SPECIAL REQUIREMENTS AT EXISTING TREES

- ALL UNDERGROUND IRRIGATION LINES SHALL BE ROUTED OUTSIDE THE DRIP LINES WHERE POSSIBLE.
- IF UNDERGROUND IRRIGATION LINES MUST TRAVERSE THROUGH THE DRIP LINE AREA, LOCATION OF IRRIGATION LINES SHALL BE REVIEWED WITH PROJECT ARBORIST AND MODIFIED AS NEEDED PRIOR TO INSTALLATION. WHEN LINES ARE PROPOSED WITHIN A DISTANCE FROM THE TRUNKS OF FIVE (5) TIMES THEIR DIAMETER, THE PROJECT ARBORIST MAY RECOMMEND THAT A PNEUMATIC AIR DEVICE IS USED TO EXCAVATE THE TRENCH.

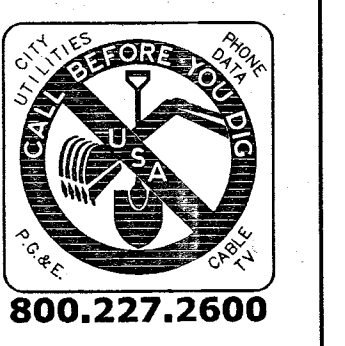
EXISTING OAK TREE NOTES:

- SEE CIVIL ENG. PLANS & ARBORIST REPORT FOR TREE PROTECTION MEASURES, TYP.
- NO NEW PLANTING OR IRRIGATION SHALL OCCUR UNDER ANY EXISTING OAK TREES. CONTRACTOR TO FIELD ADJUST AS NECESSARY.
- CONTRACTOR SHALL PROTECT EXISTING OAK TREES FROM IRRIGATION & ANY POTENTIAL IRRIGATION RUN OFF.

NOTE: CONTRACTOR SHALL FIELD STAKE ALL TREE LOCATIONS PRIOR TO INSTALLATION OF IRRIGATION SYSTEM TO AVOID CONFLICTS WITH TREE LOCATIONS AND MAIN LINES/LATERAL LINES. IRRIGATION LATERAL LINES AND MAIN LINES SHALL BE LOCATED 3' MINIMUM HORIZONTALLY FROM TREE LOCATIONS. FIELD ADJUST ROUTING OF IRRIGATION LINES AS NECESSARY TO MEET MINIMUM CLEARANCE NOTED ABOVE.



CLIENT:
CHAMBERLAIN GROUP
 655 Skyway, Suite 250
 San Carlos, CA 94070
 (650) 595-5582



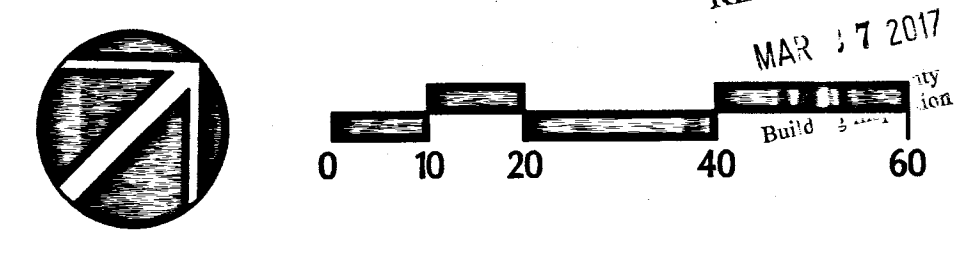
VAN DORN ABED
 LANDSCAPE ARCHITECTS, INC.
 81 14TH ST. SAN FRANCISCO, CA
 ZIP 94103 PH (415) 864-9211 FAX (415) 864-4796
 PROJECT MANAGER: ZEKI ABED
 DRAWING TITLE: LANDSCAPE IMPROVEMENT PLANS
 CHECKED BY: ZEKI ABED
 DATE: 3/17/17

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
 CALIFORNIA
LANDSCAPE IMPROVEMENT PLANS
LOT 10

REVIEWED FOR CODE COMPL. NCE
 This review does not authorize violation on
 of State or County building laws.
 NOV 13 2019
 SAN MATEO CO. BLDG. INSP. DIV.
Van Dorn

AS PER WELO SECTION 492.12 (1):
 THE PROJECT APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH WITH CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE.

SAN MATEO COUNTY WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE STATEMENT:
 "I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."
 ZEKI ABED - LICENSED LANDSCAPE ARCHITECT



NO.	DATE	DESCRIPTION

REVISIONS:

SHEET TITLE:
IRRIGATION PLAN

SCALE:
 1" = 20'-0"

ISSUE DATE:
 3/17/17

PROJECT NO.:
 V1355

SHEET NO.:
L4.0
 OF

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
●	PVC lateral line to drip area with Rainbird 8-outlet emitter units. Route PVC lateral line thru drip area and install required quantity of Xert-Bird 8 Multi Outlet devices necessary to irrigate plants in the drip area.	—	Irrigation Mainline: PVC Schedule 40 and Class 315 with solvent weld Sch.40 fittings. PVC Schedule 40 to 1-1/2", PVC Class 315 SDR 13.5 for pipes 2" and larger. 18" min. bury.
◊	Rain Bird XBT-6 Six multi-outlet drip emitter/bubbler Six-Outlet, Pressure Compensating, with 1.0 GPH Black Drip Emitters at each emitter outlet. Comes with 1/2" FPT Inlet x Barb Outlet. Install DBC-025 Diffuser Bug Caps at end of each emitters 1/4" distribution line. Install 4 (four) 1/4" distribution lines with Diffuser Bug Caps at 5Gal & 15Gal trees; Install 6 (six) 1/4" distribution lines with Diffuser Bug Caps at 24"Box trees. Plug unused emitter outlets.	—	Pipe Sleeve: PVC Class 315 SDR 13.5 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. 24" min. bury.
Area to Receive Drip Emitters	Rain Bird XBD81-PRS w/XB-10 Xert-Bird 8 Multi Outlet Emission Device with Xert-Bug emitters at 1gph each, with built-in 200 mesh filter. Pressure Regulator in-stem. Emitter Notes: OCT8-16 emitters (1 assigned to each 1 gal plant) OCT8-16 emitters (4 assigned to each 15 gal plant) OCT8-16 emitters (2 assigned to each 2 gal plant) OCT8-16 emitters (6 assigned to each 24"box plant) XB10PC emitters (1 assigned to each 4" pot plant) OCT8-16 emitters (2 assigned to each 5 gal plant)	Valve Collout Valve Number Valve Flow Valve Size	Drip zone connection point: PVC lateral line connection to subsurface dripline tubing manifold. Note-location diagrammatic, see drip details for PVC lateral to drip tubing.
Area to Receive Dripline	Toro RGP-212 (12) Rootguard and 0.53 gph emitters at 12" o.c., or approved equivalent. Dripline spacing shall be as follows: Dripline lateral rows shall be spaced at 12" apart, with emitters offset for triangular pattern. See notes on irrigation plans and details for spacing at sloped areas.	→	Cap main line for Homeowner's future use. Contractor shall route low voltage control wires from lot controller's unused stations to cap location for Homeowner's future use. Locate control wires in 9" round plastic valve box (e.g., if lot has 5 valve/controller stations used, Contractor shall route low voltage control wires for the remaining 7 unused stations to main line cap location).
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	NOTE: TUBING INSTALLED ON GRADE, SEE DRIP DETAILS. FLUSH VALVE AND AIR RELIEF VALVES NOT SHOW ON PLANS FOR DESIGN CLARITY, SEE DRIP DETAILS FOR TYPICAL INSTALLATION LOCATIONS AT EACH DRIP CIRCUIT.	
●	Irritrol 700 with OMR-100 Electric Remote Control Valve, with Omni-Reg 5-100psi regulator. Set pressure regulator at 40 PSI.	NOTE: INSTALL ONE TORO T-DL-MP9 DL2000 POP-UP OPERATION INDICATOR AT EACH RCV TORO DRIPLINE VALVE CIRCUIT. LOCATE AT END OF DRIPLINE CIRCUIT AT FLUSH VALVE.	
■	Rain Bird 33-DRC 3/4" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, Double Track Key Lug, and 2-Piece Body. Provide two 33-DK 3/4" valve key with SH-0 3/4" hose swivels to Owner for each lot.		
⊗	Nibco T-113-LF Lead free Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"		
M/P	Master Valve & Flow Sensor: 1-1/4" Griswold 2160JE - 1-1/4" Solenoid, Normally Open Master Valve. Epoxy Coating. Cast Iron and Bronze Material. NPT End Connection & Creative Sensor Technology FSI-T10-001 - 1" (25mm) PVC tee type flow sensor w/socket ends, custom mounting tee and ultra-lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all Irrigation controllers. Flow range: .86-52 GPM.		
BF	Febco LF825Y 1" Lead Free Reduced Pressure Backflow Preventer		
E	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
F	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
G	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
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I	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
J	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
K	Irritrol MC-12-E 12- Station, Commercial-Grade, Outdoor/Indoor Controller. Equipped in a rugged, lockable, vandal-proof, weather resistant steel cabinet. Wall mounted. Connect Flow Sensor and Climate Logic receiver unit per manufacturers specifications.		
⊗	Irritrol CL Wireless Weather Sensing System. 100-Receive and Transmitter Kit. Outdoor sensor, and receiver attaches to Irritrol Controller. Compatible with Rain Dial-R, Total Control-R, KwikDial, and MC-E controllers. Monitors weather data.	FOR MOUNTING INFO, SEE NOTES ON PLANS	
⊗	Amiad 150 mesh Y-Filter with flush valve, or approved equivalent, at drip remote control valves. Select filter size with gpm flow rate compatible with valve circuit gpm flow rate.	Y-FILTER TO BE INSTALLED AT DRIP CIRCUITS.	
WM	Water Meter 1"	NOTE: SEE P.O.C. NOTES ON IRRIGATION PLANS.	
—	Irrigation Lateral Line: PVC Class 200 SDR 21 with solvent weld Sch.40 fittings. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size. 12" min. bury.		

IRRIGATION RUN TIME SCHEDULE NOTES:

- IRRIGATION CONTROLLER RUN TIMES ARE NOT INCLUDED ON LANDSCAPE PLANS. IRRIGATION CONTROLLERS ARE ET BASED SMART CONTROLLERS THAT GENERATE OPTIMUM RUN TIME SCHEDULES BASED UPON LOCAL WEATHER CONDITIONS.
- CONTROLLERS ARE INITIALLY PROGRAMMED WITH IRRIGATION SYSTEM COMPONENT INFORMATION, PLANT MATERIAL WATER USE REQUIREMENTS, SOIL TYPE, AND LOCAL MICRO CLIMATIC INFORMATION. CONTROLLERS AUTOMATICALLY GENERATE RUN TIME SCHEDULES FROM THIS INFORMATION. EACH DAY CONTROLLERS RECEIVES LOCAL WEATHER CONDITION DATA WIRELESS WEATHERS SENSORS, AND AUTOMATICALLY ADJUST THEIR WATERING SCHEDULES FOR OPTIMUM WATER CONSERVATION. EACH CONTROLLER HAS IT'S OWN WIRELESS WEATHER SENSOR, LOCATED ON-SITE.
- CONTRACTOR SHALL PROGRAM CONTROLLER'S FLOW MONITORING FEATURE TO DETECT FLOWS OF 5 GPM ABOVE PEAK RECORDED GPM FLOW FOR MAIN LINE AND LATERAL LINES/RCVS. CONTROLLER SHALL BE SET TO SHUT MASTER VALVE AND CONTROLLER OFF IN THE EVENT OF AN OVERFLOW CONDITION (MAIN LINE OR LATERAL LINE BREAK).

REVIEWED FOR CODE COMPLIANCE
This review does not authorize violation of State or County building laws.
NOV 3 2019
SAN MATEO COUNTY BLDG. INSP. DIV.
[Signatures]

RE SUBMITTAL
MAR 27 2017
San Mateo County Building Inspection

CLIENT: CHAMBERLAIN GROUP
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San Carlos, CA 94070
(650) 595-5582

800.227.2600

VAN DORN ABED LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA 94103
TEL: 415 864-8921 FAX: 415 864-4796

PROJECT NAME/LOCATION: HIGHLAND ESTATES CALIFORNIA
DRAWING TITLE: LANDSCAPE IMPROVEMENT PLANS

NO.	DATE	DESCRIPTION

REVISIONS:

SCALE: NA
ISSUE DATE: 3/17/17
PROJECT NO.: V1355
SHEET NO.: L4.1

Appendix B – Water Efficient Landscape Worksheet : Lot 10

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (Eto): 42.8

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d	
Regular Landscape Areas								
#1 Sun	0.3	Drip	0.81	0.37	2575	953	25282	
#2 Shade	0.3	Drip	0.81	0.37	497	184	4880	
					Totals	3072	1137	30162
Special Landscape Areas N/A								
					Totals	(C)	(D)	
							ETWU Total	30162
							Maximum Allowed Water Allowance (MAWA)^e	44835

^aHydrozone #/Planting Description
E.g.
1.) front lawn
2.) low water use plantings
3.) medium water use planting

^bIrrigation Method
overhead spray
or drip

^cIrrigation Efficiency
0.75 for spray head
0.81 for drip

^dETWU (Annual Gallons Required) =
Eto x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) = (42.8) (0.62) [(0.55 x LA) + ((1-ETAF) x SLA)]
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

0.55 used in MAWA calculation.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	1137
Total Area	3072
Average ETAF	0.37

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

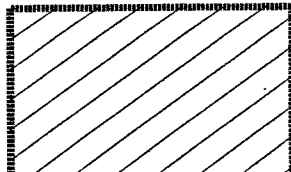
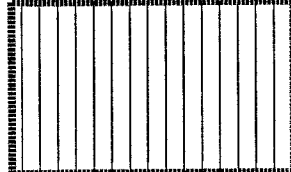
All Landscape Areas

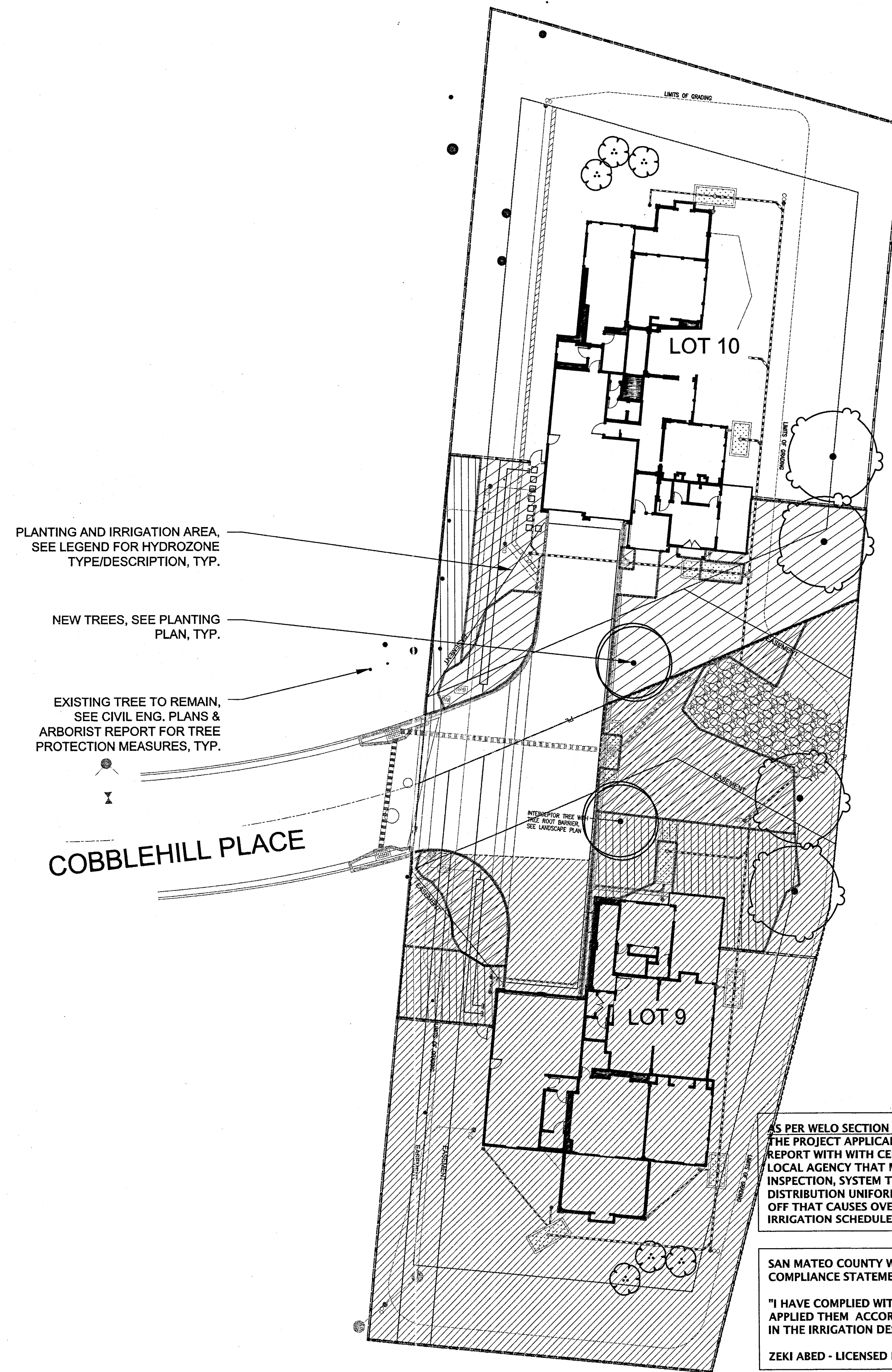
Total ETAF x Area	1137
Total Area	3072
Sitewide ETAF	0.37

WATER EFFICIENT LANDSCAPE WORKSHEET NOTES:

1. THE LANDSCAPE WATER USE CALCULATIONS ARE PER THE SAN MATEO COUNTY WATER EFFICIENT LANDSCAPING ORDINANCE (WELO).
2. THIS PROJECTS WATER USE IS LESS THAN THE MAXIMUM PERMITTED, THEREFORE THIS PROJECT IS A WATER CONSERVING LANDSCAPE DESIGN.

HYRDOZONE AREA LEGEND

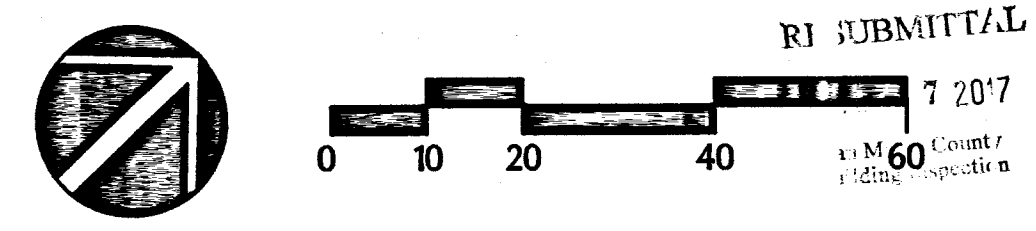
SYMBOL	HYDROZONE	DESCRIPTION	IRRIG. METHOD	SF AREA	%LANDSCAPE AREA
	1	LOW WATER USE, SUN EXPOSURE, DRIP IRRIGATED TREE, SHRUB & GROUND COVER AREAS	DRIP	2,575 SF	83.8%
	2	LOW WATER USE, SHADE EXPOSURE, DRIP IRRIGATED TREE, SHRUB & GROUND COVER AREAS	DRIP	497 SF	16.2%
				TOTAL SF AREA =	3,072 SF 100%



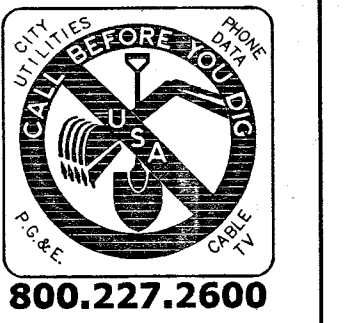
REVIEWED FOR COMPLIANCE
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NOV 13 119
SAN MATEO CO. B' JG. INSP. DIV.

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ZEKI ABED - LICENSED LANDSCAPE ARCHITECT



CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
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(650) 595.5682



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
ZIP 94103 PH (415) 864-9511 FAX(415) 864-9516
CONTRACT # 2016 VAN DORN ABED
LANDSCAPE ARCHITECT, INC.
REGISTERED LANDSCAPE ARCHITECT
NUMBER 10000 IN THE STATE OF CALIFORNIA
DATE OF EXPIRATION: 12/31/2017
COUNTY OF THE LANDSCAPE ARCHITECT.

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
CALIFORNIA
SAN MATEO
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS
LOT 10

REVISIONS:	NO.	DESCRIPTION	DATE

SHEET TITLE:
HYDROZONE PLAN & WATER CALCS

SCALE:
1" = 20'-0"

ISSUE DATE:
3/17/17

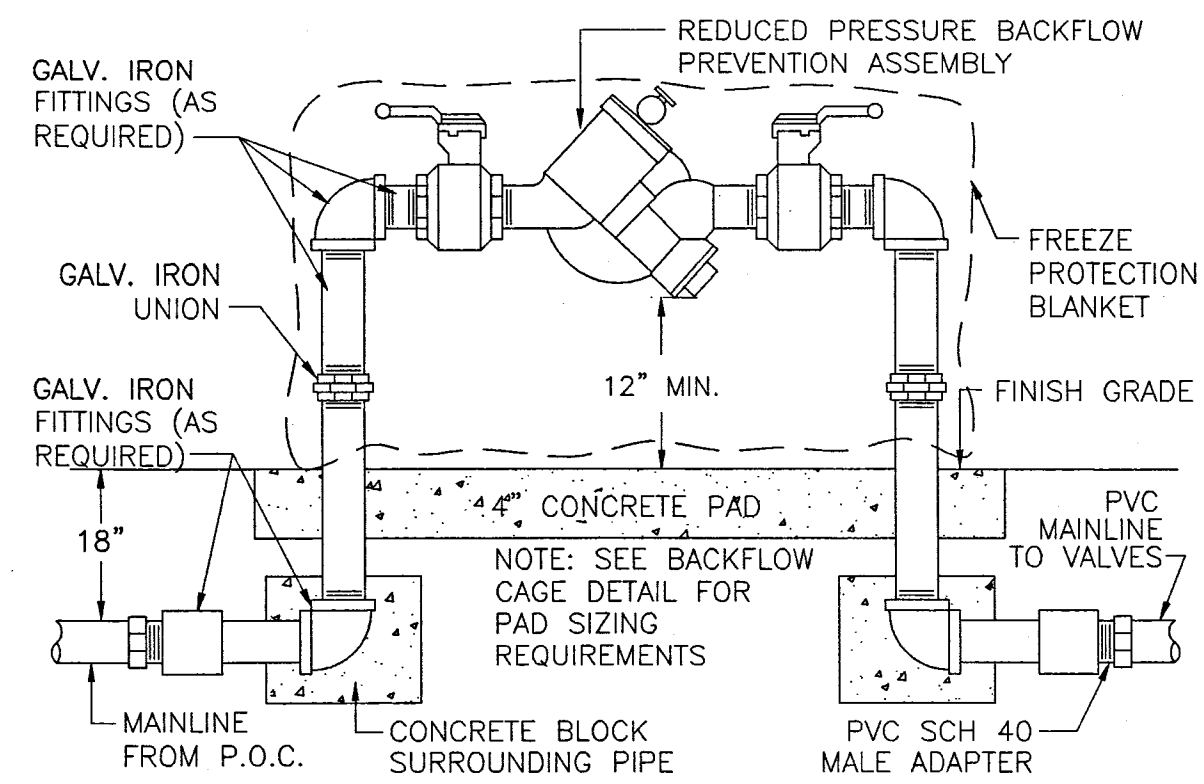
PROJECT NO.:

V1355

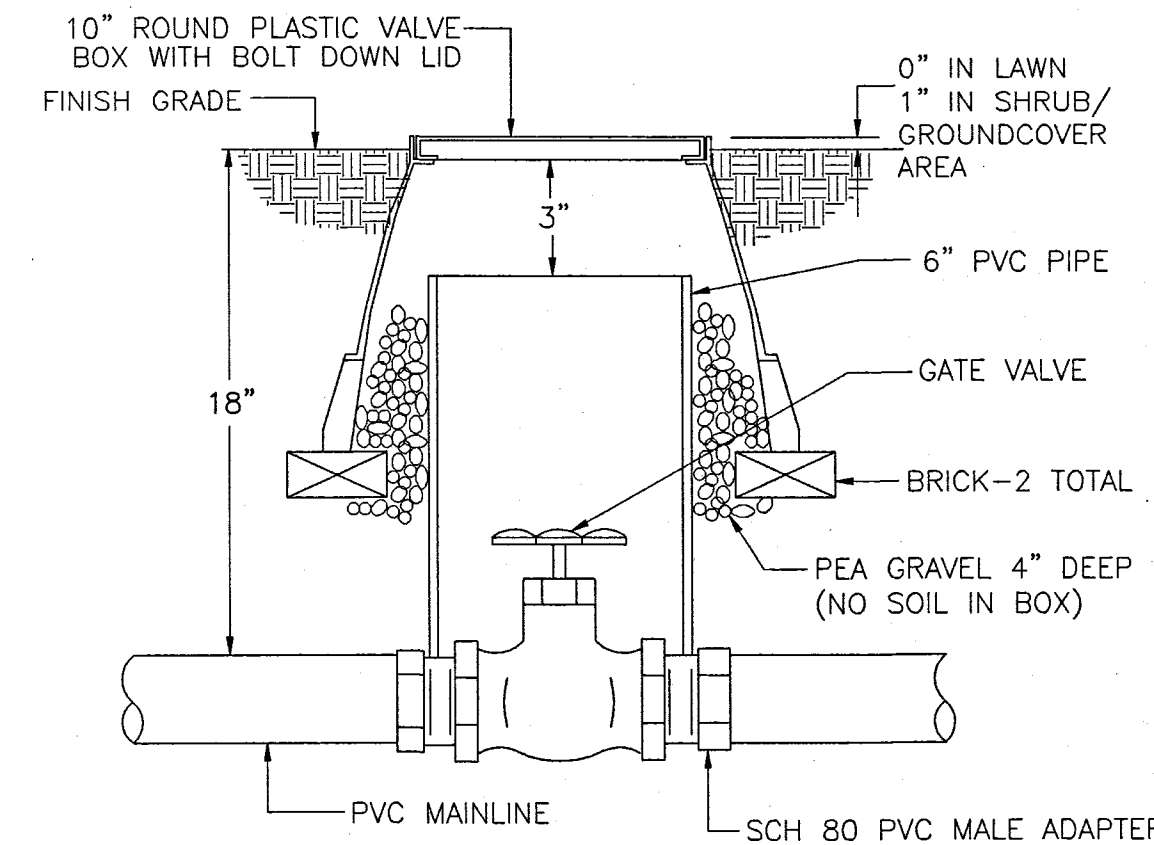
SHEET NO.:

L4.2

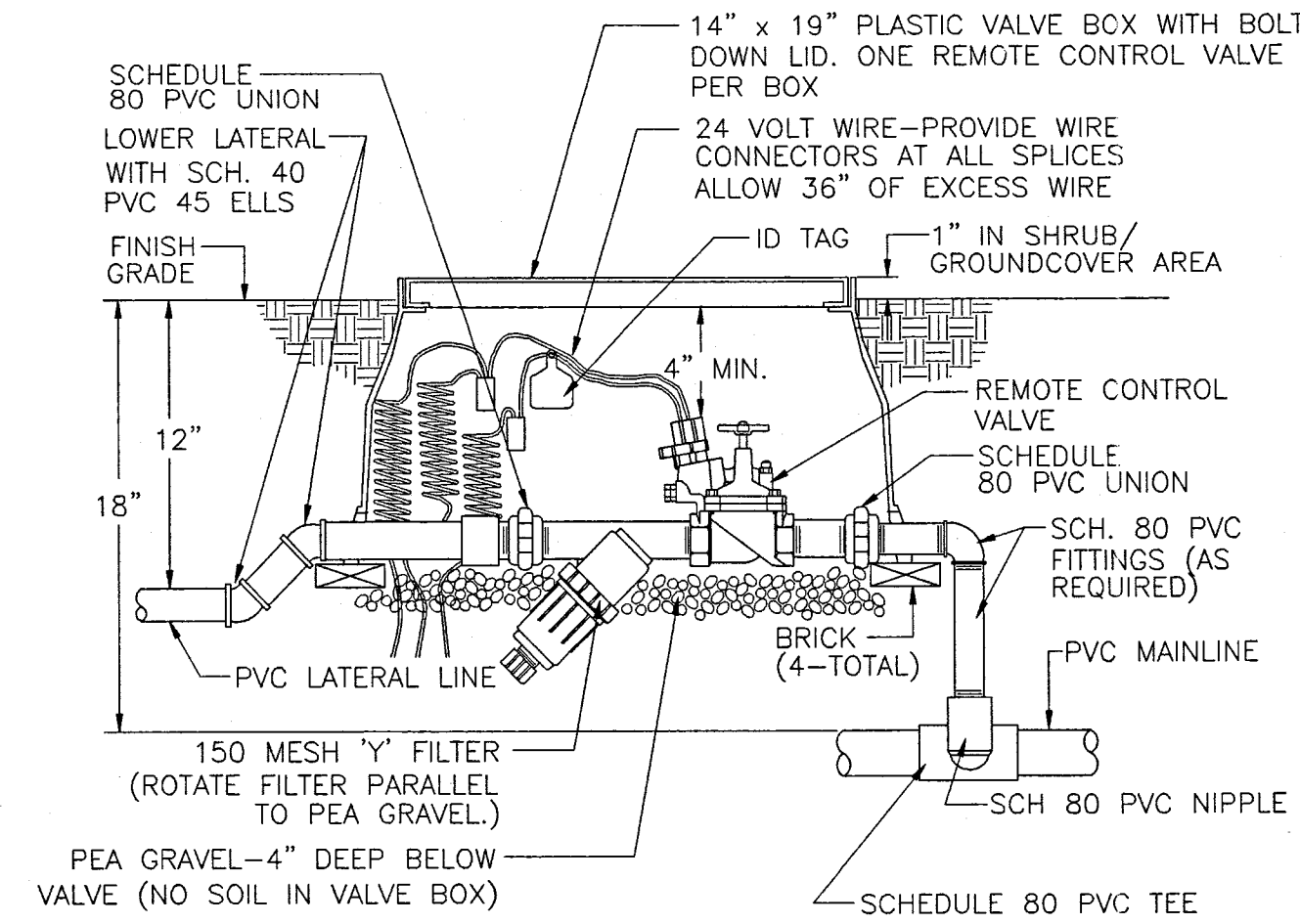
NOTE: EVENLY COAT METAL FITTINGS EXPOSED TO SOIL AND CONCRETE WITH 3M SCOTCHRAP PIPE PRIMER AND THEN WRAP WITH 3M SCOTCHRAP NO. 51 BLACK TAPE (3/4" OVERLAP).



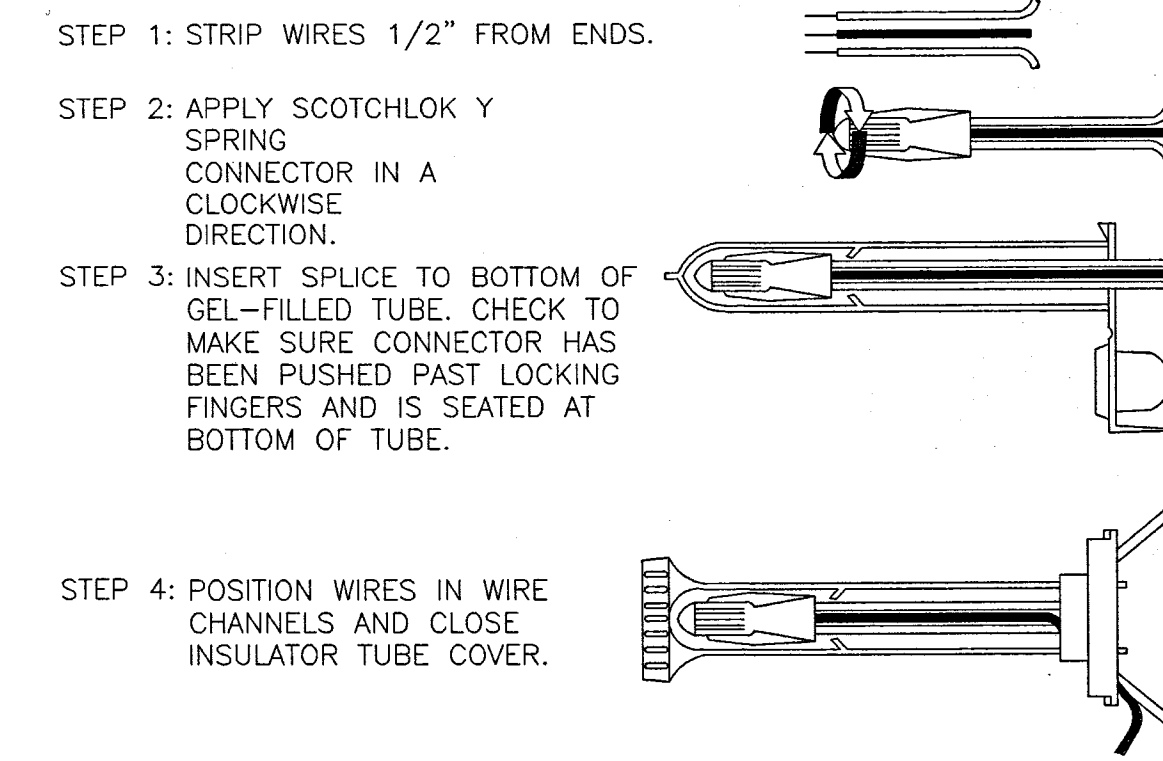
1 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NOT TO SCALE



2 GATE VALVE DETAIL
NOT TO SCALE



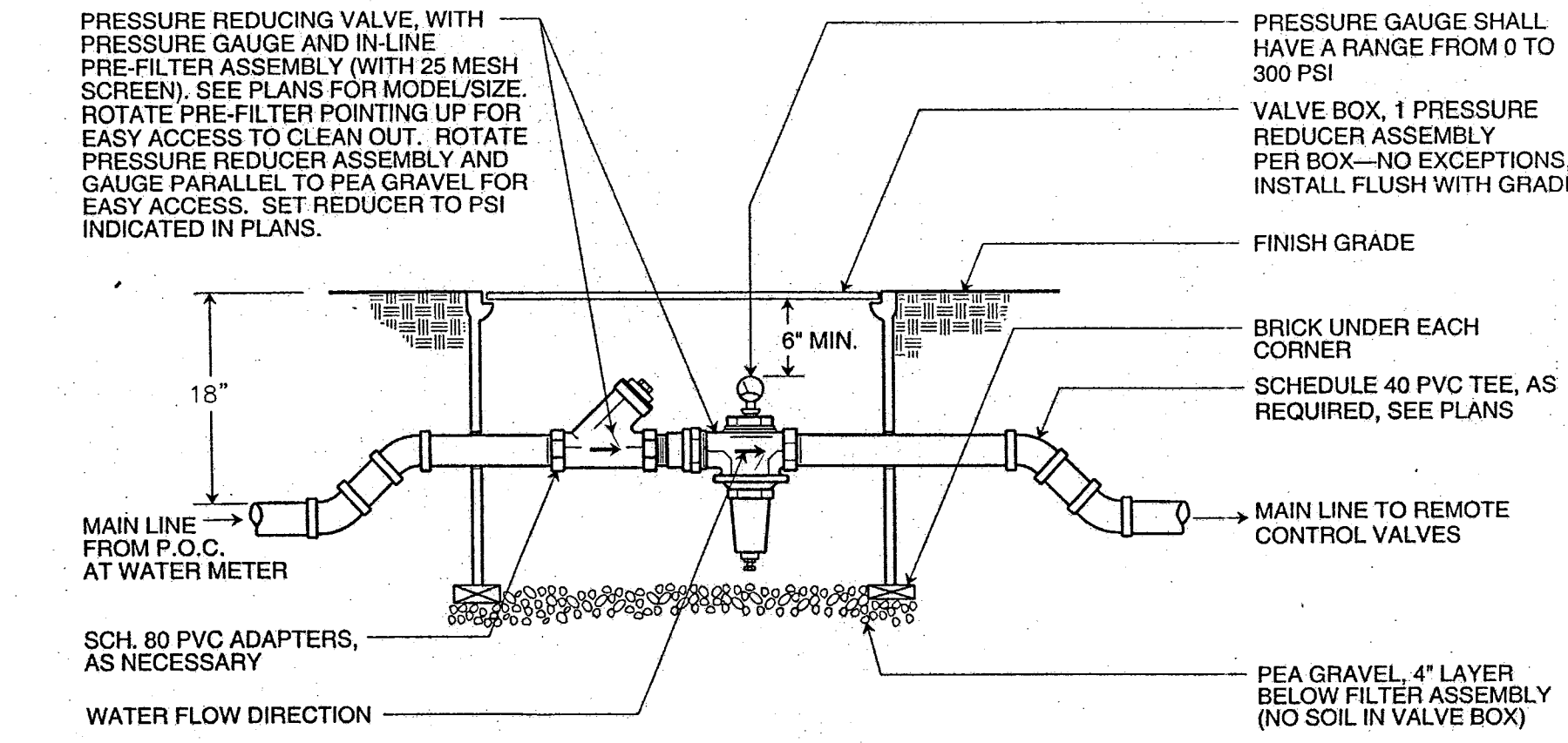
3 REMOTE CONTROL VALVE & 'Y' FILTER DETAIL
NOT TO SCALE



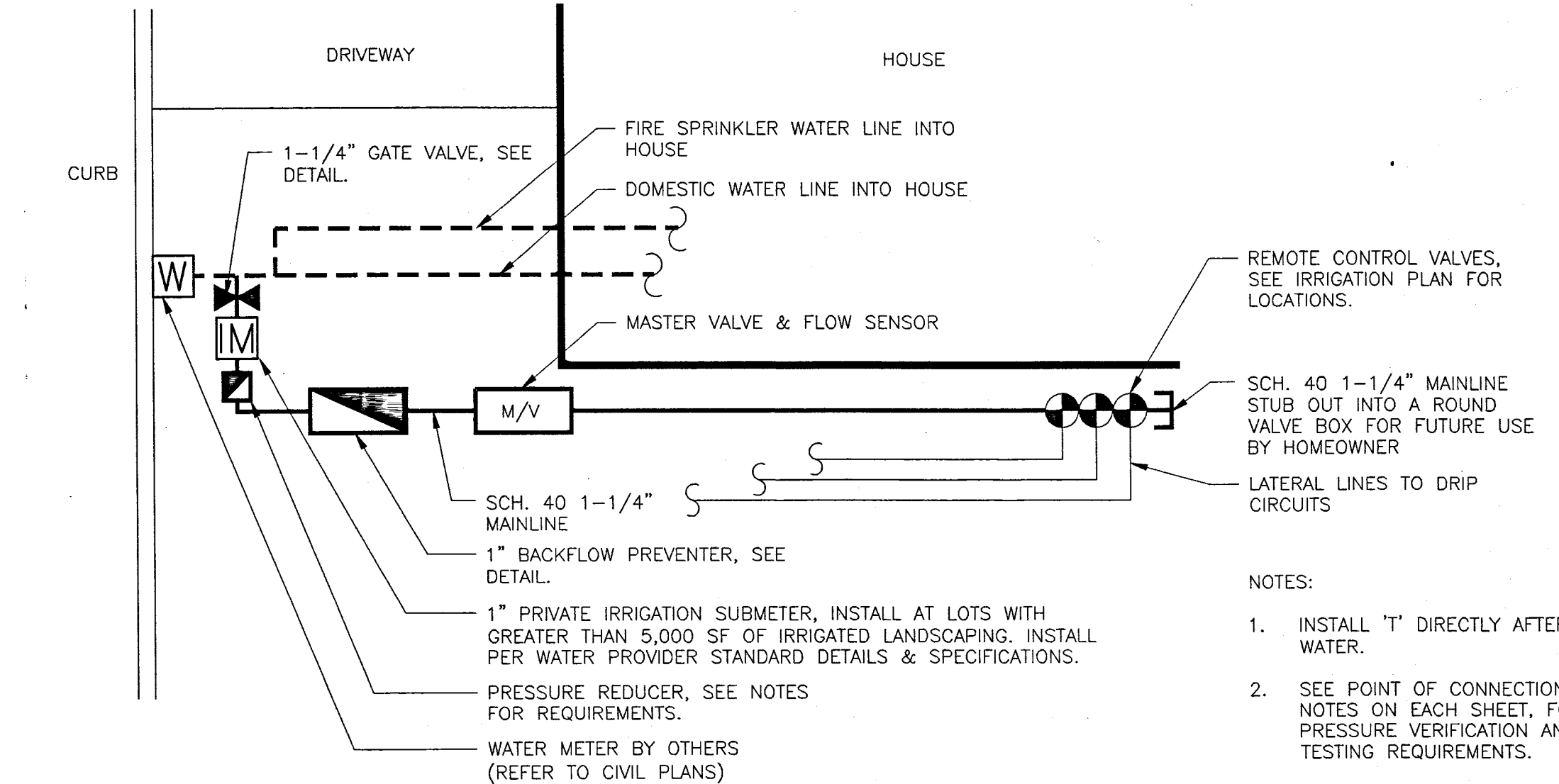
4 WIRE CONNECTION DETAIL
NOT TO SCALE

NOTE: MAXIMUM WIRE SIZES PER CONNECTOR ARE THREE #14'S OR TWO #12'S.

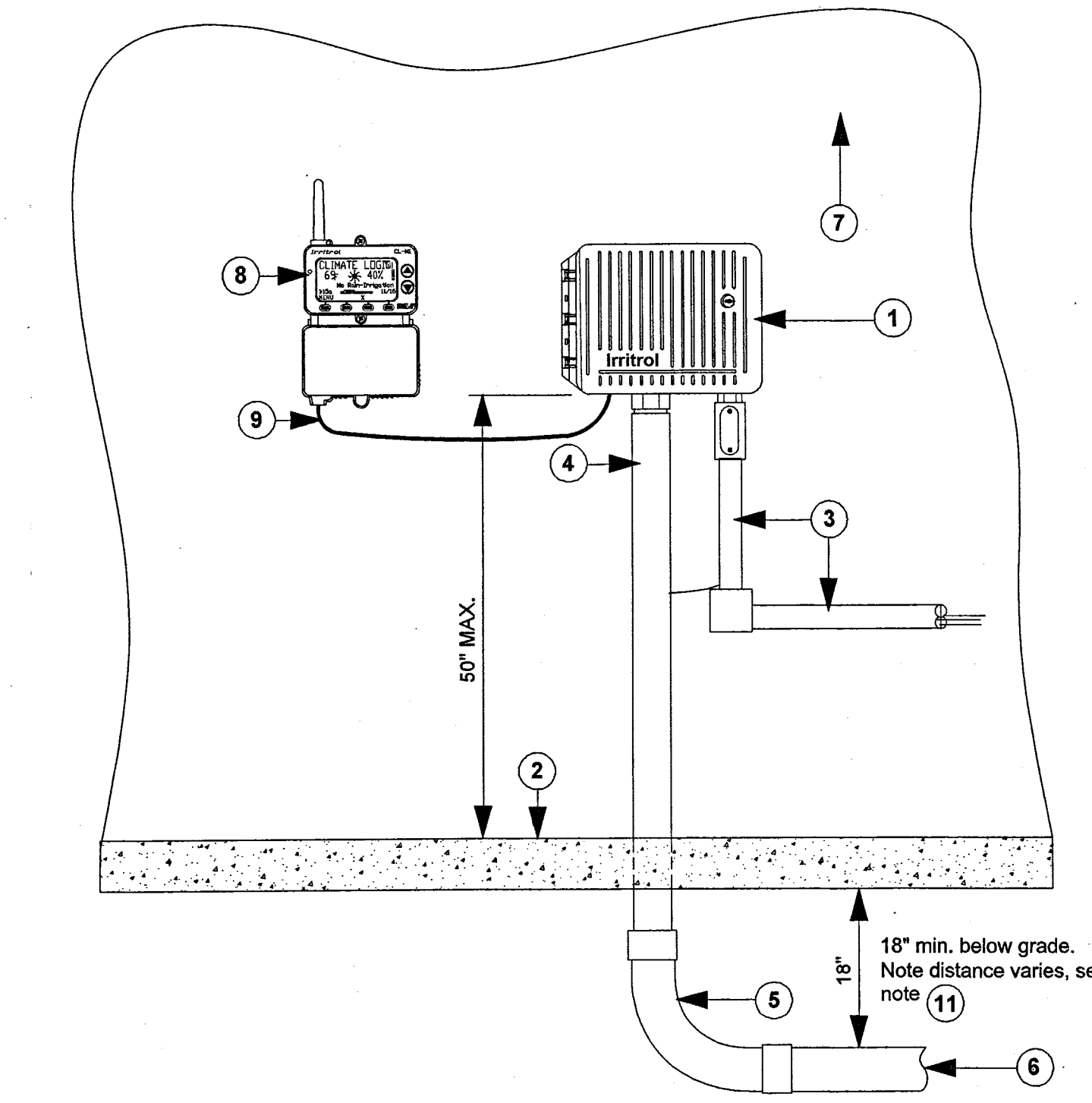
NOTES:
PRESSURE REDUCER SHALL BE 1-1/4" LEAD FREE WILKINS 500XLYSBR (INCLUDES PRESSURE REDUCER & FILTER), SET AT 50 PSI. SEE NOTES ON IRRIGATION PLANS FOR INSTALLATION REQUIREMENTS.



6 PRESSURE REDUCER DETAIL
NOT TO SCALE

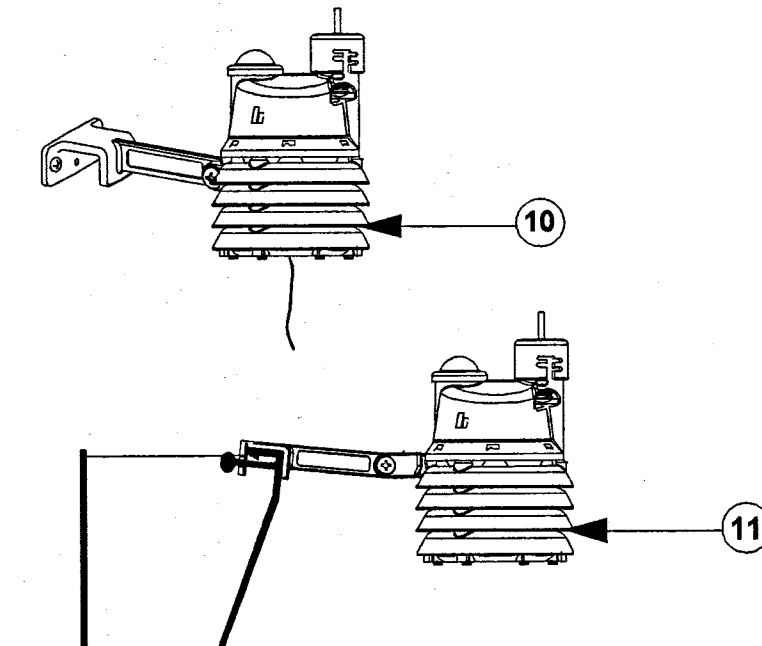


5 IRRIGATION SYSTEM P.O.C. AT EACH LOT DETAIL
NOT TO SCALE



7 IRRIGATION CONTROLLER & WIRELESS WEATHER SENSOR DETAIL
NOT TO SCALE

- 1 Irrigation controller. Install controller in location as directed by Owner's Representative.
- 2 Garage finish surface.
- 3 1/2" UL approved electrical conduit, ring nut and junction box for 120V AC electrical power. Contractor to provide 120 volt AC electrical power to controller, see notes on Irrigation Plans.
- 4 PVC schedule 40 control wire conduit (size as required)
- 5 PVC sweep ell to conduit through bldg. to exterior planting area 18" below grade.
- 6 End conduit 12" beyond edge of bldg., 18" below grade.
- 7 Interior wall in garage area.
- 8 Climate Logic™ receiver module mounted near the compatible controller. Mount with screws at eye level.
- 9 Single connection cord plugged into controller's remote port.
- 10 Climate Logic™ weather sensor mounted outdoors on flat surface using screws, see notes on Irrigation Plans.
- 11 Climate Logic™ weather sensor mounted on a rain gutter using QuickClip™ guttermount, see notes on Irrigation Plans.
- 12 Note: at lots where garage areas are elevated above grade, route conduit down side of bldg./structural piers out site where possible, to 18" below grade. Paint exposed conduit to match house color as directed by Owner's Representative.



- NOTES:
1. Irrigation controller is not shown on the irrigation plan. Irrigation controller to be installed in garage as directed by Owner's Representative.
 2. 120 volt AC power to controller per Electrical Plans.
 3. Wireless weather sensor unit to be installed on edge of bldg. in area open to sky with full sun exposure, in location approved by Owner's Representative. Locate sensor unit within radio communication range of controller.
 4. All electrical work must conform to local codes. Refer to product literature for additional installation requirements.

8 IRRIGATION LINE TRENCHING
NOT TO SCALE

- NOTES:
1. TRENCHING AND BACKFILLING SHALL BE PER STANDARD SPECIFICATIONS.
 2. MINIMUM BACKFILL RELATIVE COMPACTION SHALL BE 90%.
 3. BUNDLE CONTROL WIRES TOGETHER AND TAPE AT 10' INTERVALS.
 4. 4" MIN. HORIZONTAL DISTANCE BETWEEN PIPES IN COMMON TRENCH.
 5. ALL PLASTIC IRRIGATION PIPING TO BE SNAKED IN TRENCHES.

REVIEWED FOR CODE COMPLIANCE
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NOV 13 2017
SAN MATEO CO. BLDG. INSP. DIV.
[Signature]

RESUBMIT
MAR 2 2017
San Mateo County Building Inspection

CLIENT:
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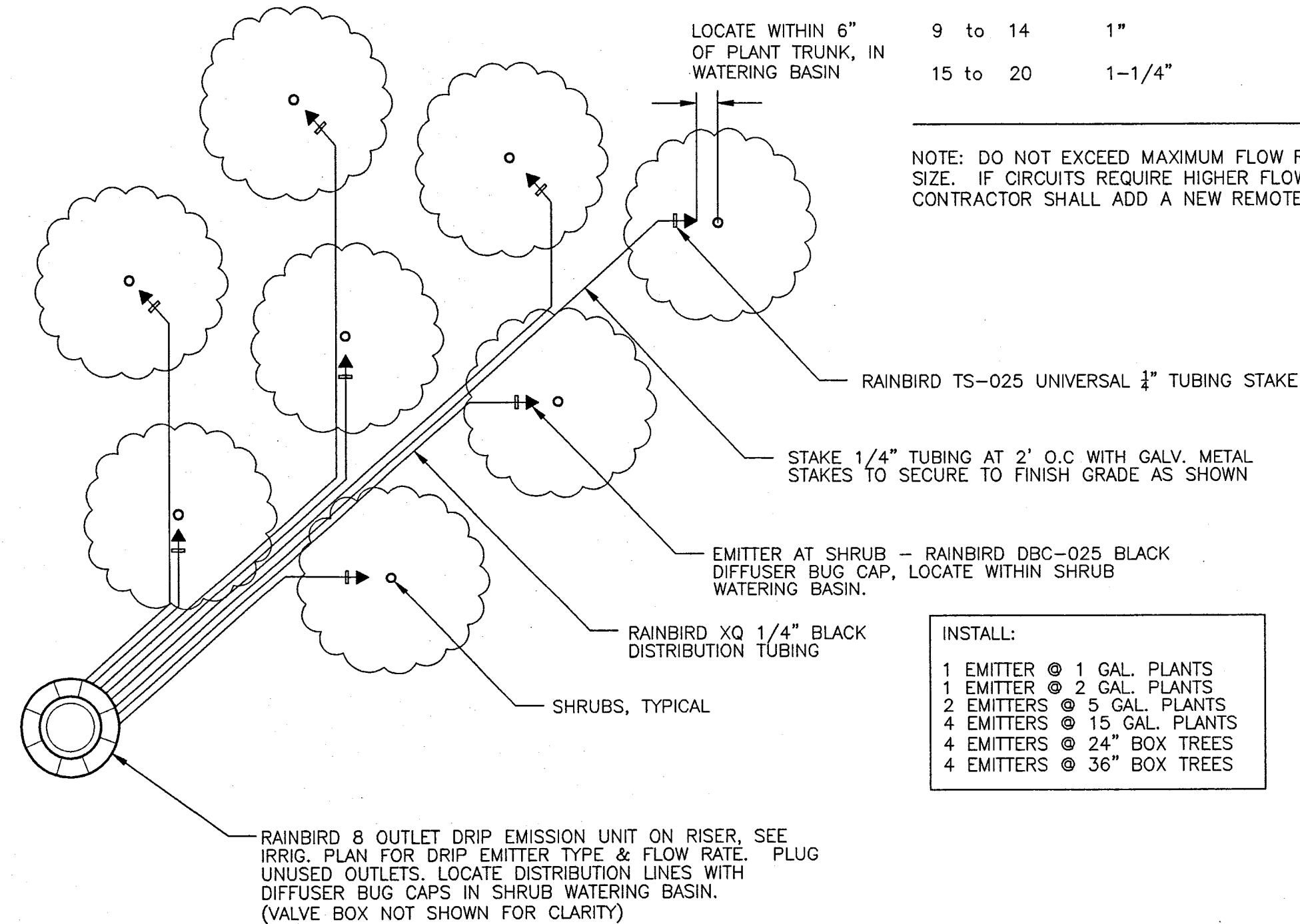
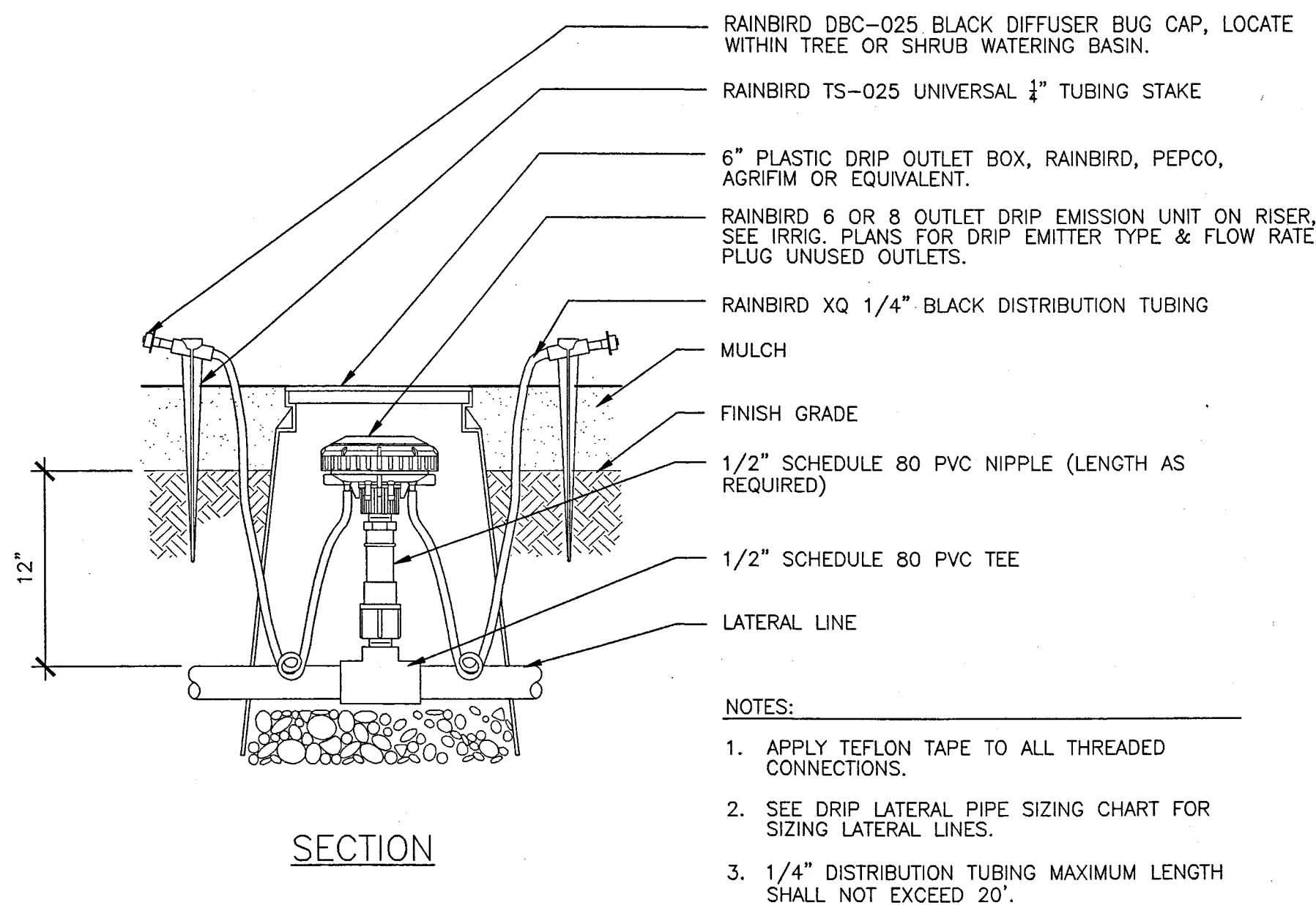


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PROJECT MANAGER: MW
DESIGNED BY: MW
CHECKED BY: ZJA

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
SAN MATEO COUNTY
CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	DATE	DESCRIPTION

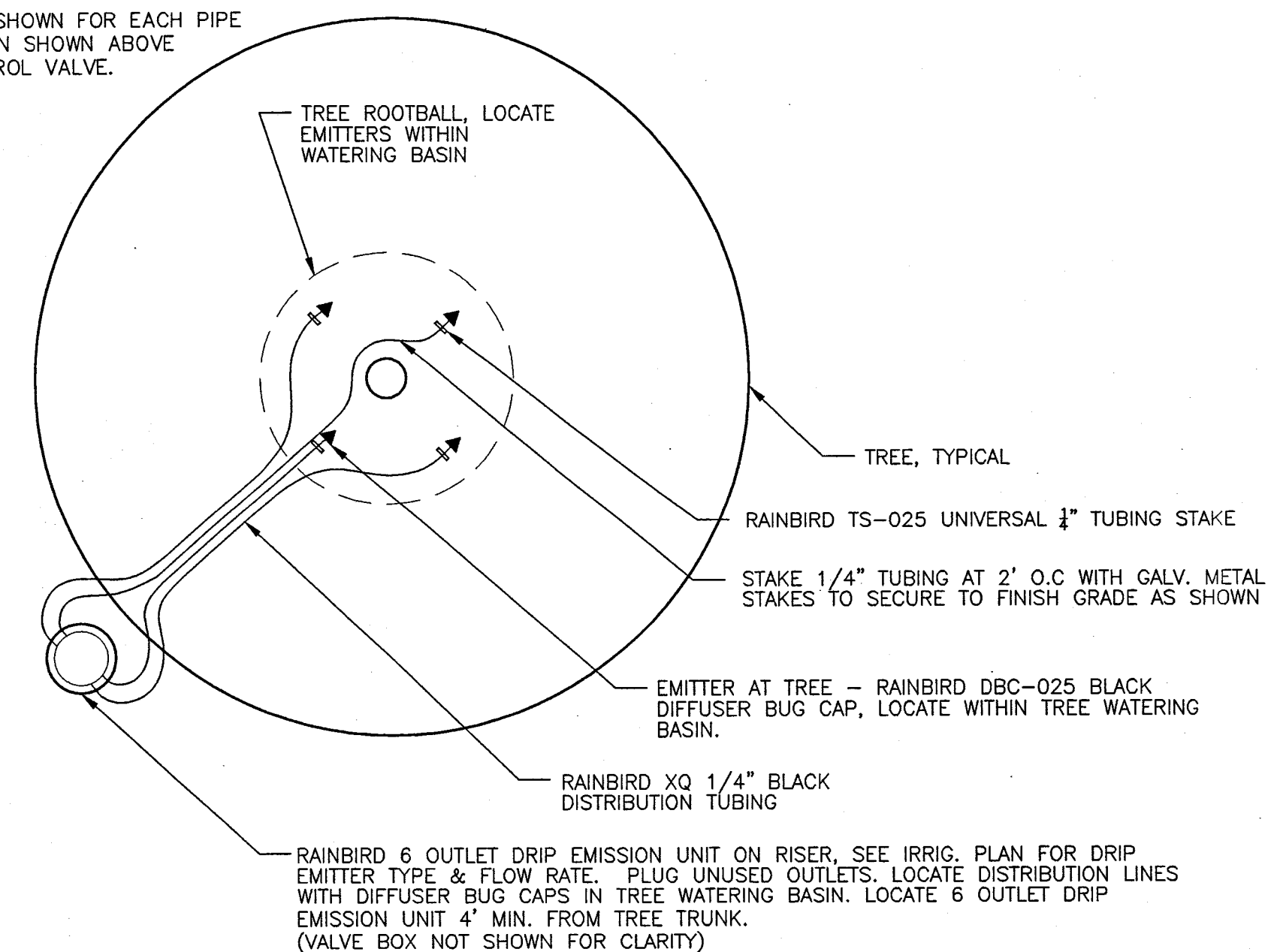
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OF



DRIP SHRUB/GC LATERAL PIPE SIZING CHART

GPM FLOW RATES	SIZE OF CLASS 200 PVC PIPE	MAX. QUANTITY OF RAINBIRD 8-OUTLET DRIP EMISSION UNITS (WITH 1.0 GPM EMITTERS)
5 to 8	3/4"	58
9 to 14	1"	102
15 to 20	1-1/4"	150

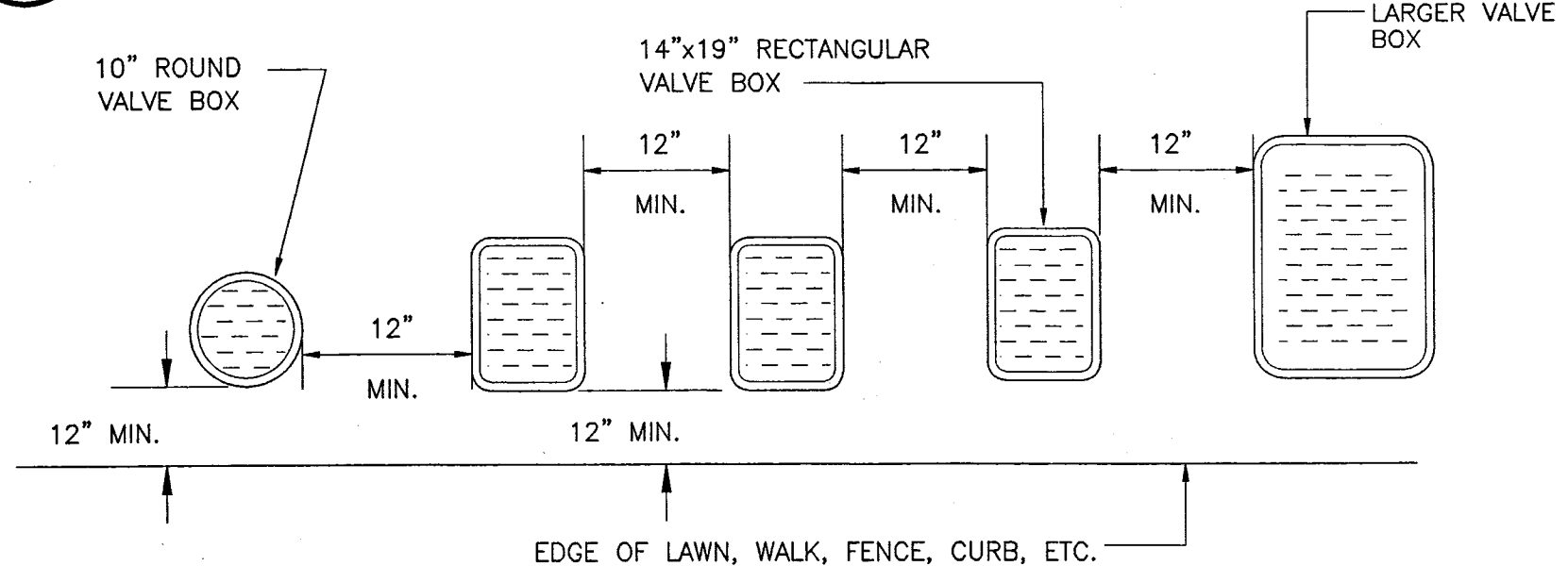
NOTE: DO NOT EXCEED MAXIMUM FLOW RATES SHOWN FOR EACH PIPE SIZE. IF CIRCUITS REQUIRE HIGHER FLOWS THAN SHOWN ABOVE CONTRACTOR SHALL ADD A NEW REMOTE CONTROL VALVE.



PLAN VIEW - RAINBIRD 8 OUTLET DRIP EMITTER LAYOUT @ SHRUBS/GROUND COVERS

PLAN VIEW - RAINBIRD 6 OUTLET DRIP EMITTER LAYOUT @ TREES

1 8-OUTLET & 6-OUTLET DRIP EMITTER ON RISER DETAIL
NOT TO SCALE



- NOTES**
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
 2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
 3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
 5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
 6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.
 7. VALVE BOXES SHALL BE BY CARSON, OR EQUIVALENT.

2 VALVE BOX LAYOUT DETAIL
NOT TO SCALE

TORO DRIP TUBING MAXIMUM LENGTH OF RUN CHART:

TUBING TYPE: TORO RGP-212-XX;
5/8" DIA. TUBING WITH 0.53 GPH EMITTERS AT 12" O.C.



Performance Specifications (continued)

Maximum length of run

- RGP-212-XX:

250 @ 15 psi (76m @ 1.03 Bar)
360 @ 25 psi (110m @ 1.72 Bar)
400 @ 30 psi (122m @ 2.07 Bar)
460 @ 40 psi (140m @ 2.76 Bar)

3 DRIP CIRCUIT MAXIMUM TUBING LENGTH CHART
NOT TO SCALE

- TUBING LAYOUT CHART NOTES:**
1. CONTRACTOR SHALL FIELD LAYOUT DRIP TUBING ZONE AREAS AS INDICATED ON THE PLANS, AND FIELD VERIFY/CALCULATE EACH ZONES TOTAL GPM DOES NOT EXCEED THE DRIP ZONE VALVE CIRCUIT GPM'S SHOWN ON THE PLANS. IF DRIP ZONE(S) GPM'S EXCEED GPM'S SHOWN ON PLANS, CONTRACTOR SHALL SPLIT DRIP ZONE(S) INTO TWO OR MORE DRIP ZONE VALVE CIRCUITS AREAS TO REDUCE GPM FLOW RATES AS NECESSARY.
 2. PSI AVAILABLE AT EACH DRIP CIRCUIT'S TUBING WILL VARY AND DEPEND UPON PSI AT WATER METER/P.O.C AND PSI LOSSES FROM P.O.C TO DRIP TUBING REMOTE CONTROL VALVE. CONTRACTOR SHALL FIELD VERIFY PSI AVAILABLE AT EACH DRIP CIRCUIT'S VALVE, AND SELECT THE APPROPRIATE MAXIMUM TUBING LENGTH RUN FROM CHART BELOW. DO NOT EXCEED MAXIMUM TUBING RUN LENGTHS.
 3. WHERE NECESSARY, INSTALL ADDITIONAL PVC LATERAL SUPPLY MANIFOLDS IN DRIP ZONE AREAS TO KEEP TUBING RUN LENGTHS FROM EXCEEDING MAXIMUM RUN LENGTHS.
 4. PVC LATERAL SUPPLY MANIFOLDS SHALL BE SAME SIZE AS LATERAL LINE SIZE THAT FEEDS ENTIRE DRIP ZONE AREA.

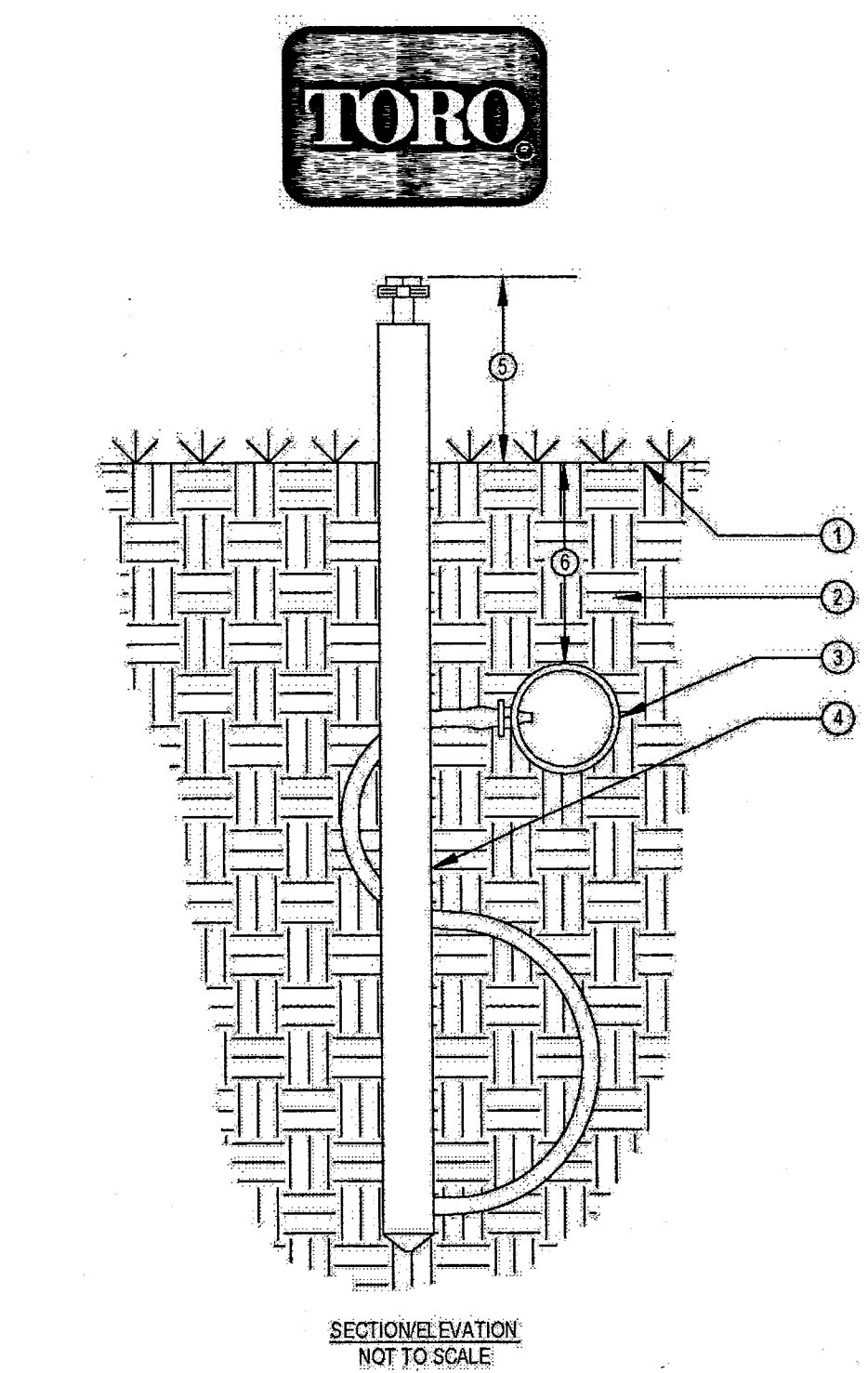
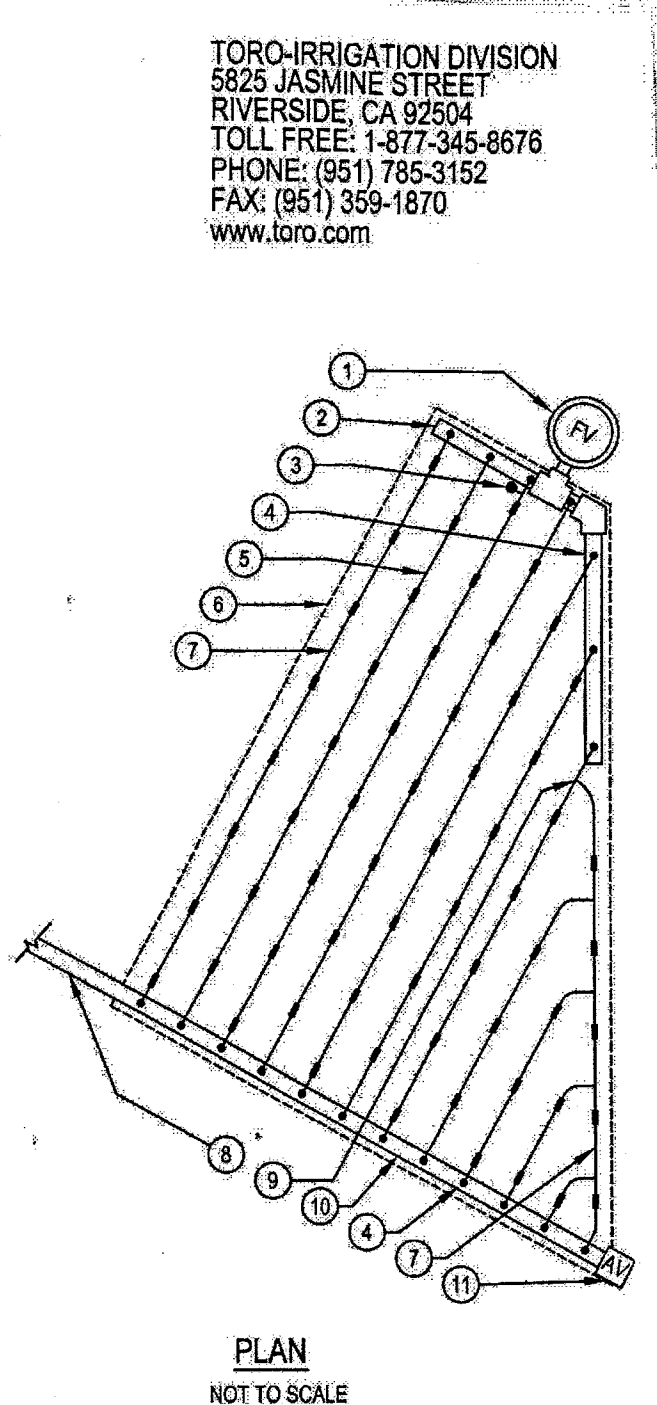
4 DRIP CIRCUIT ODD SHAPE LAYOUT - END FEED DETAIL
NOT TO SCALE

- LEGEND**
1. TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-FPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.
 2. PVC FLUSH MANIFOLD.
 3. TORO DL2000 OPERATION INDICATOR (DL-MP9), OPTIONAL.
 4. TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TY7).
 5. TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
 6. AREA PERIMETER.
 7. PERIMETER LATERALS 2" TO 4" FROM EDGE.
 8. PVC LATERAL LINE FROM DRIP ZONE KIT.
 9. TORO LOC-EZE TEE (FTT16).
 10. PVC SUPPLY MANIFOLD.
 11. TORO DL2000 AIR/VACUUM RELIEF VALVE (VD-500-34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

DL2000 DRIPLINE:
RPG212(12)-5/8" DIA.
TUBING WITH 0.53GPH
EMITTERS AT 12" O.C.

NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. SEE TORO SUBSURFACE IRRIGATION DESIGN GUIDE (FORM #A1111).

- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 065-1881.



- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 065-1881.

5 DL2000 DRIPLINE OPERATION INDICATOR
NOT TO SCALE

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5825 JASMINE STREET
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TOLL FREE: 1-877-345-8676
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cra@toro.com
www.toro.com

- LEGEND:**
- 1 FINISH GRADE.
 - 2 NATIVE SOIL BACKFILL PER SPECIFICATIONS.
 - 3 TORO DL2000 DRIPLINE (RGP-XXX-XX).
 - 4 TORO DL2000 OPERATION INDICATOR (DL-MP9). USE ONE PER ZONE AND LOCATED AT FLUSH END OF ZONE.
 - 5 2'-3" ABOVE FINISH GRADE.
 - 6 SEE DRIP DETAILS FOR DEPTH

REVIEWED FOR CODE COMPLIANCE:
This review does not authorize violation of State or County Building laws.

NOV 13 2013
SAN MATEO CO. BLDG. INSP. DIV.

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595.5592



VAN DORN ABED LANDSCAPE ARCHITECTS, INC.
81 14TH ST., SAN FRANCISCO, CA 94103
2P 9403 RT 140 867-921 FAX(415) 867-4796

PROJECT MANAGER: [Signature]
DESIGNED BY: EO
CHECKED BY: ZA

PROJECT NAME/LOCATION: HIGHLAND ESTATES, CALIFORNIA
DRAWING TITLE: LANDSCAPE IMPROVEMENT PLANS

NO.	DATE	DESCRIPTION

SHEET TITLE: IRRIGATION DETAILS
SCALE: AS SHOWN
ISSUE DATE: 3/17/17
PROJECT NO.: V1355

SHEET NO.: L4.4
OF

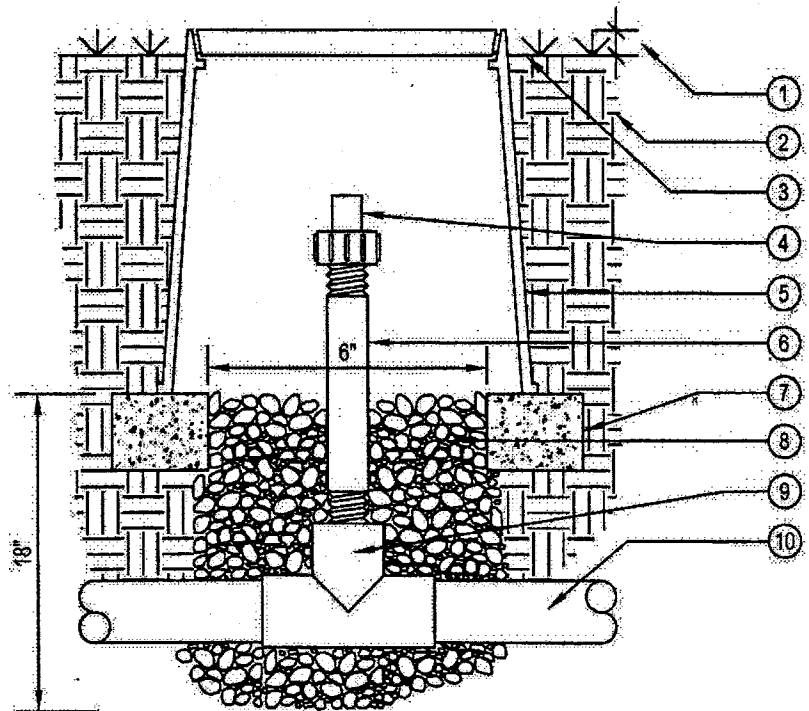


DRIP CIRCUIT NOTES (FOR DETAILS 1-6):

- ALL PVC LATERALS LINES, INCLUDING PVC FEED LINES SHALL BE INSTALLED 12" BELOW GRADE.
- SEE IRRIGATION LEGEND FOR TUBING SPECIFICATIONS.
- SEE NOTES AT EACH DRIP DETAIL FOR ADDITIONAL REQUIREMENTS.
- SEE "DRIPLINE TUBING NOTES" ON IRRIGATION PLANS FOR ADDITIONAL REQUIREMENT.
- CONTACT CHRIS STEELE, TORO IRRIGATION SPECIFICATION SALES MANAGER, 559-779-8676, PRIOR TO INSTALLATION OF DRIP TUBING TO REVIEW INSTALLATION REQUIREMENTS.

LEGEND

- 1" ABOVE FINISH GRADE.
- NATIVE SOIL PER SPECIFICATIONS.
- FINISH GRADE.
- TORO DL2000 FLUSH VALVE (FCH-H-FPT).
- 6" ROUND PLASTIC VALVE BOX, HEAT BRAND "AR" ON LID IN 4" HIGH CHARACTERS.
- 3/4" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED).
- BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
- PEA GRAVEL SLUMP (8" x 16").
- PVC TEE (S&KT) WITH 3/4" THREADED OUTLET.
- PVC PIPING.



SECTION/ELEVATION NOT TO SCALE

- NOTES:
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 - CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADetails.com/info REFERENCE NUMBER 065-188w.

1 DRIP CIRCUIT FLUSH VALVE DETAIL NOT TO SCALE

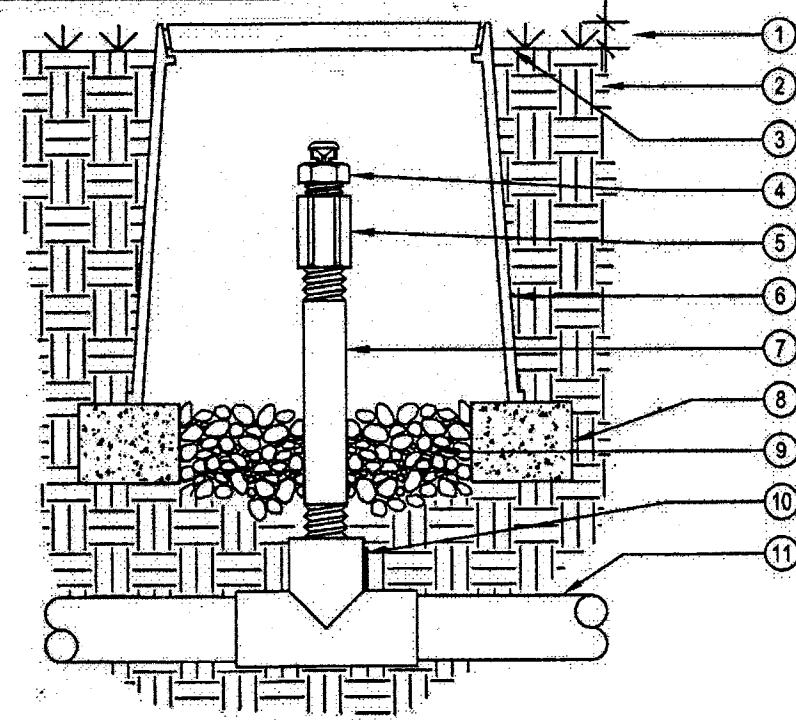


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LEGEND

- 1" ABOVE FINISH GRADE.
- NATIVE SOIL PER SPECIFICATIONS.
- FINISH GRADE.
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
- 1/2" PVC COUPLING (T&T).
- 6" ROUND PLASTIC VALVE BOX, HEAT BRAND "AR" ON LID IN 4" HIGH CHARACTERS.
- 1/2" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED).
- BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
- PEA GRAVEL SLUMP (8" DEEP).
- PVC ELL (S&T) WITH 1/2" THREADED OUTLET.
- PVC PIPING.

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS. REFER TO TORO PUBLICATION #ALT111 FOR SPECIFICATIONS.



SECTION/ELEVATION NOT TO SCALE

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2 DRIP CIRCUIT AIR VACUUM RELIEF VALVE DETAIL NOT TO SCALE

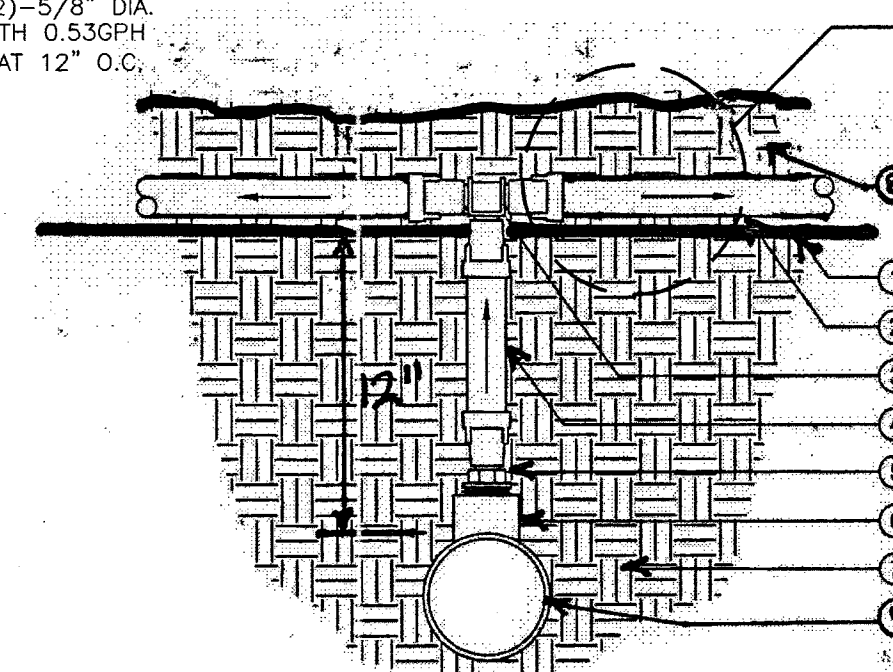


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LEGEND

- FINISH GRADE.
- TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
- TORO LOC-EZE TEE (FTT16).
- TORO BLUE STRIPE POLY TUBING (EHD1645-XXX).
- TORO LOC-EZE X 1/2" MPT ADAPTER (FAM16).
- PVC TEE (S&KT) WITH 1/2" FPT OUTLET.
- NATIVE SOIL BACKFILL PER SPECIFICATIONS.
- 3" BARK MULCH LAYER
- PVC LATERAL FEED LINE

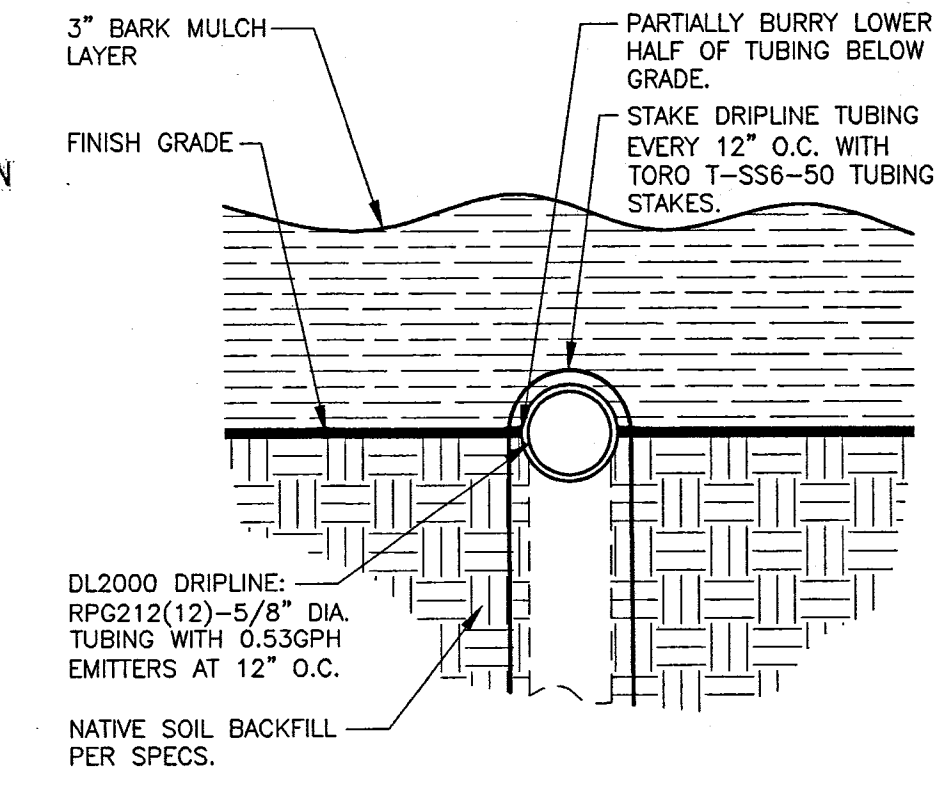
DL2000 DRIPLINE:
RPG212(12)-5/8" DIA. TUBING WITH 0.53GPH EMITTERS AT 12" O.C.



SECTION/ELEVATION NOT TO SCALE

- NOTES:
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3 DRIP CIRCUIT FEED MANIFOLD CONNECTION DETAIL NOT TO SCALE



ENLARGED TUBING ON GRADE DETAIL NTS

DRIPLINE TUBING NOTES:

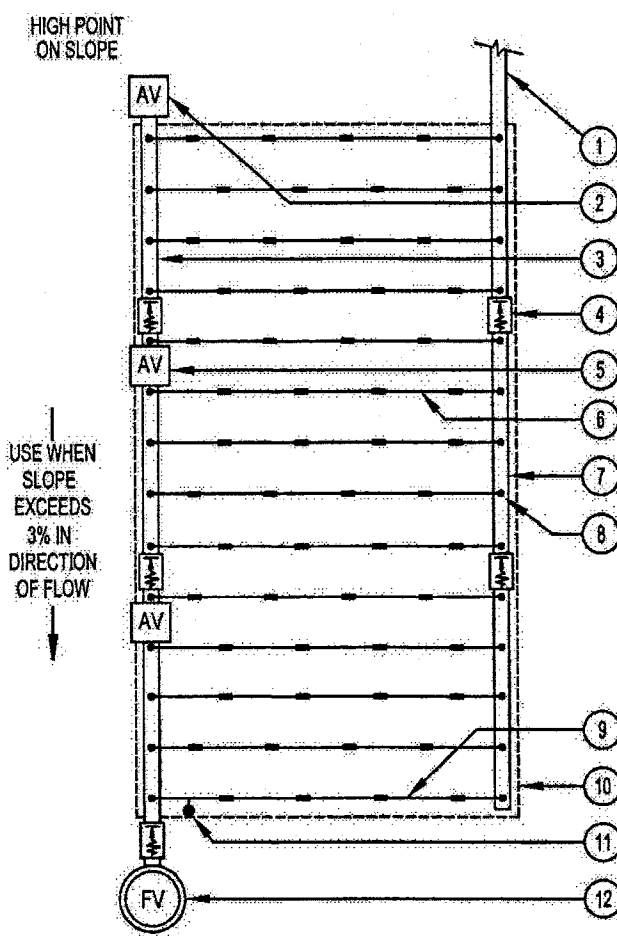
- DRIPLINE TUBING LAYOUT ON PLANS IS DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- DRIPLINE SPACING SHALL BE AS INDICATED IN IRRIGATION LEGEND. INSTALL DRIPLINE 2" FROM PERIMETER OF PLANTED AREA. THERE SHALL BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTENT DEPTH THROUGHOUT THE CIRCUIT. SEE IRRIGATION LEGEND AND DRIP CIRCUIT DETAILS FOR DRIPLINE TUBING DEPTH.
- PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR 7 GPM PER ZONE (OR FOR EVERY 800' OF 0.53 GPH/12" EMITTER SPACING DRIPLINE). SEE DRIP CIRCUIT AIR RELIEF VALVE DETAIL FOR ADDITIONAL REQUIREMENTS.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 7 GPM PER ZONE (OR FOR EVERY 800' OF 0.53 GPH/12" EMITTER SPACING DRIPLINE). SEE DRIP CIRCUIT FLUSH VALVE DETAIL FOR ADDITIONAL REQUIREMENTS.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY LATERAL LINE AND DRIP CIRCUIT MANIFOLDS LINES SHALL BE THE SAME SIZE WITHIN THE DRIP CIRCUIT ZONE.
- SEE "DRIP CIRCUIT MAXIMUM TUBING LENGTH CHART" FOR MAXIMUM DRIPLINE TUBING LENGTHS AND DRIP CIRCUIT PSI AND GPM FIELD VERIFICATION REQUIREMENTS.
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE. SEE DRIP CIRCUIT DETAILS FOR FITTING TYPE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.



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www.toro.com

LEGEND

- PVC LATERAL LINE FROM DRIP ZONE KIT.
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO PVC FLUSH MANIFOLD AT HIGH POINT.
- PVC FLUSH MANIFOLD.
- IN-LINE SPRING CHECK VALVE (AV500-S2) TO HELP CONTROL LOW-HEAD DRAINAGE (TYP).
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO PVC FLUSH MANIFOLD JUST BELOW EACH CHECK VALVE (TYP).
- TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
- PVC SUPPLY MANIFOLD.
- TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
- PERIMETER LATERALS 2" TO 4" FROM EDGE.
- AREA PERIMETER.
- TORO DL2000 OPERATION INDICATOR (DL-MP9), OPTIONAL.
- TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.



PLAN NOT TO SCALE

- NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. SEE TORO SUBSURFACE IRRIGATION DESIGN GUIDE (FORM #ALT111).
- DL2000 DRIPLINE:
RPG212(12)-5/8" DIA. TUBING WITH 0.53GPH EMITTERS AT 12" O.C.
- NOTES:
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 - DO NOT SCALE DRAWINGS.
 - CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADetails.com/info REFERENCE NUMBER 065-188w.

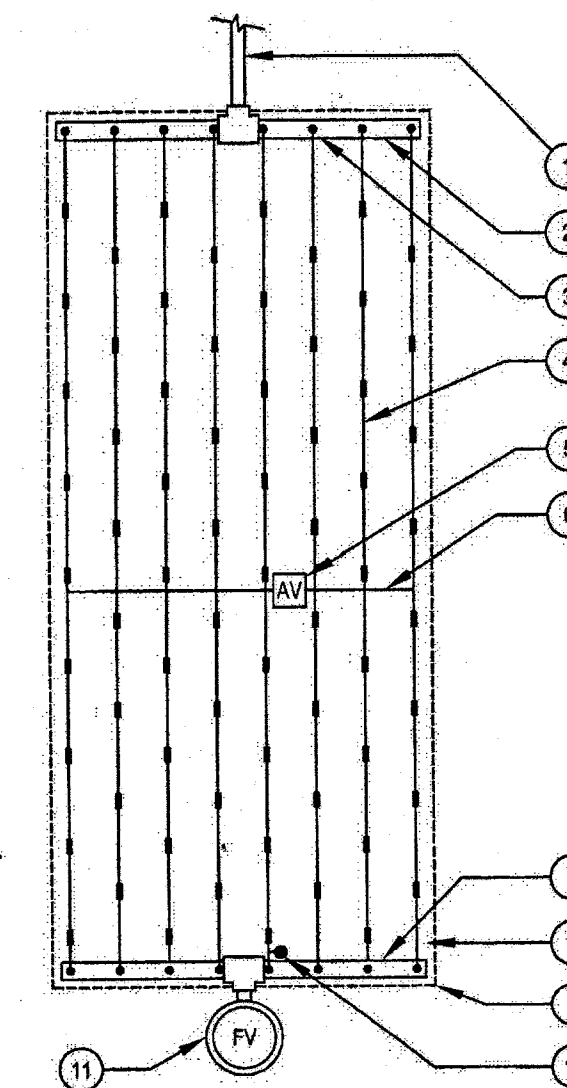
4 DRIP CIRCUIT LAYOUT - SLOPE DETAIL



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LEGEND

- PVC LATERAL LINE FROM DRIP ZONE KIT.
- PVC SUPPLY MANIFOLD.
- TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
- TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AT EACH HIGH POINT.
- AIR/VACUUM RELIEF LATERAL, TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) CENTERED ON MOUND OR BERM.
- PVC FLUSH MANIFOLD.
- PERIMETER LATERALS 2" TO 4" FROM EDGE.
- AREA PERIMETER.
- TORO DL2000 OPERATION INDICATOR (DL-MP9), OPTIONAL.
- TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.



PLAN NOT TO SCALE

- NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. SEE TORO SUBSURFACE IRRIGATION DESIGN GUIDE (FORM #ALT111).
- DL2000 DRIPLINE:
RPG212(12)-5/8" DIA. TUBING WITH 0.53GPH EMITTERS AT 12" O.C.
- NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
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5 DRIP CIRCUIT LAYOUT - END FEED DETAIL



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LEGEND

- TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.
- PVC FLUSH MANIFOLD.
- TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
- PVC LATERAL LINE FROM DRIP ZONE KIT.
- PVC SUPPLY MANIFOLD.
- TORO DL2000 MANIFOLD-TO-TEE CONNECTION.
- TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
- AIR/VACUUM RELIEF LATERAL, TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) CENTERED ON MOUND OR BERM.
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AT EACH HIGH POINT.
- PERIMETER LATERALS 2" TO 4" FROM EDGE.
- AREA PERIMETER.
- TORO DL2000 OPERATION INDICATOR (DL-MP9), OPTIONAL.

DL2000 DRIPLINE:
RPG212(12)-5/8" DIA. TUBING WITH 0.53GPH EMITTERS AT 12" O.C.

- NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH. SEE TORO SUBSURFACE IRRIGATION DESIGN GUIDE (FORM #ALT111).
- NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
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6 DRIP CIRCUIT LAYOUT - CENTER FEED DETAIL

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595-5682



VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
81 14TH ST. SAN FRANCISCO, CA
94103 PH: (415) 864-9211 FAX: (415) 864-4796

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	REVISIONS	DATE	BY	DESCRIPTION

SCALE:
AS SHOWN

ISSUE DATE:
3/17/17

PROJECT NO.:

V1355

SHEET NO.:

L4.5

OF

REVIEW FOR CODE COMPLIANCE
This revision does not authorize violation of State or County building laws.

NOV 3 2019
SAN MATEO CO. BLDG. INSP. DIV.

DATE: _____ BY: _____

PROJECT MANAGER: **MW**

DRAWN BY: **MD**

CHECKED BY: **JA**

IRRIGATION NOTES:

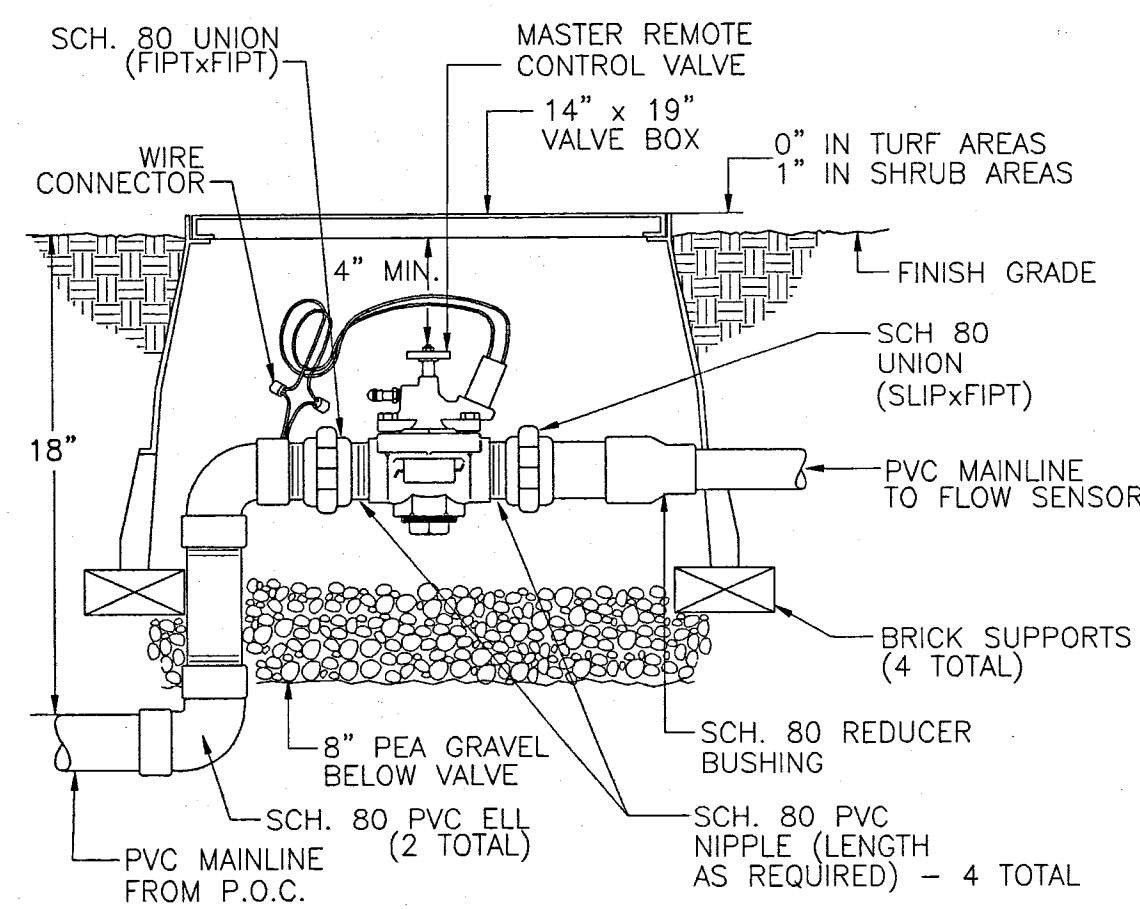
1. Irrigation system shall be installed in conformance with all applicable local codes and ordinances by experienced workmen and a licensed Landscape Contractor who shall obtain all necessary permits and pay all required fees.
2. Prior to the start of construction, the Contractor shall verify with the City, Water District, and/or other governing agency(s) if a reclaimed water source will be available in the future for connection to the irrigation system. If local regulations so stipulate, then the Contractor shall follow all requirements, specifications, construction details, codes, etc., for the installation of irrigation systems utilizing reclaimed water sources for irrigation of landscaping.
3. The Contractor shall be responsible for any damage to existing facilities caused by or during the performance of his work. All repairs shall be made at no cost to the Owner.
4. This design is diagrammatic: install parallel lines in a common trench with minimum horizontal distance of 4" and lines not one above the other. Snake pipe in trenches. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas where possible. Avoid any conflicts between the irrigation system, planting and architectural features.
5. Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the Owner's authorized representative. In the event this notification is not performed, the Contractor shall assume full responsibility for any revisions necessary.
6. It is the responsibility of the Contractor to familiarize himself with all grade differences, location of walls, retaining walls etc. Contractor shall coordinate his work with the General Contractor and other Subcontractors for the location and the installation of pipe sleeves through walls, under roadways, paving, structures, etc.
7. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings, sleeves, etc., which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation system, planting, and architectural features.
8. Notify Landscape Architect of any other aspects of layout which will provide incomplete or insufficient water coverage of plant material and do not proceed until his instructions are obtained.
9. Sprinklers/bubblers/multi-out drip emitters located where low head drainage will cause erosion and excess water run-off, use pop-up bodies with an integral check valve, and shrub risers with King Bros. CV series check valve in lieu of Schedule 80 coupling.
10. Electrical Contractor to supply 120 volt A.C. (2.5 AMP) service to controller location. Contractor to make final connection from electrical stub-out to controller. Paint conduit to controller with 2 coats Rustoleum brown paint if installed outdoors; color to be approved by Owner's representative. 120 volt A.C. J-Box to controller by others. All 120 volt A.C. and 24 volt connections to be made by Contractor.
11. Each controller shall have its own independent ground wire.
12. Program irrigation controller(s) to operate between the hours of 10:00 P.M. and 7:00 A.M.
13. Valve locations shown are diagrammatic. Install in ground cover/shrub areas where possible (not in lawn area).
14. Install valve boxes 12" from and perpendicular to walk, curb, lawn, building or landscape feature. At multiple valve box groups, each box shall be an equal distance from the walk, curb, lawn, etc., and each box shall be 12" apart. Short side of valve box shall be parallel to walk, curb, lawn, etc.
15. Install U.L. approved direct-burial wire #14 minimum and #14 common ground at 16" depth minimum. Splicing of 24 volt wires will not be permitted except in valve boxes. Leave a 24" coil of excess wire at each splice and 100 feet on center along wire run. Tape wire in bundles 10 feet on center. No taping permitted inside sleeves.
16. Install controller wiring as specified on the irrigation plans.
17. Prior to trenching, call Underground Service Alert, 1-800-642-2444 to locate all cables, conduits, and other utilities and take proper precautions not to damage or disturb existing utilities.
18. All Main lines and Lateral lines under paving shall be in PVC sleeves which extend 12" into planting areas. All backfill shall be free of rocks greater than 1" diameter. For ring-tite PVC main line piping inside sleeves use 1120-315 PSI PVC plastic pipe with schedule 40 PVC couplings.
19. When applicable, Schedule 80, ASTM D2466 male adapters to be used where mainline connects to copper pipe service lines installed by others.
20. Copper pipe shall be joined to steel or cast iron pipe with a dielectric union.
21. In addition to the sleeves and conduits shown on the plans the Contractor shall be responsible for the installation of sleeves and conduits of sufficient size under all paved areas.
22. Locate quick coupling valve 12" from hardscape area.
23. The irrigation system design is based on the minimum operating Pressure (PSI) and Flow (GPM) shown on the irrigation drawings (see Irrigation Demand at P.O.C.). The Contractor shall verify the Static and Dynamic water pressure (PSI) and Flow Rate (GPM) at the point of connection (P.O.C.) prior to construction as follows:
 - A. Static Pressure: take PSI reading at P.O.C. with no water flowing.
 - B. Dynamic Pressure: install at P.O.C. a pressure (PSI) and flow gauge (GPM) assembly of suitable size* to take flow (GPM) readings in the range of the stated Irrigation Demand for the irrigation system design. Open valve or meter at P.O.C. until GPM flow reading equals or exceeds irrigation GPM demand. Note dynamic pressure and flow readings. If the GPM flow does not equal or exceed the GPM demand, note highest flow reading possible.
 - C. Readings shall be taken at the following times: 1PM, 5PM, 9PM, 1AM, 5AM, 9AM.

* irrigation systems with high irrigation demand GPM flow rates, will require large capacity test gauge assemblies.

Submit to Owner's Representative and Landscape Architect results of Pressure and Flow Tests prior to beginning work. Note any

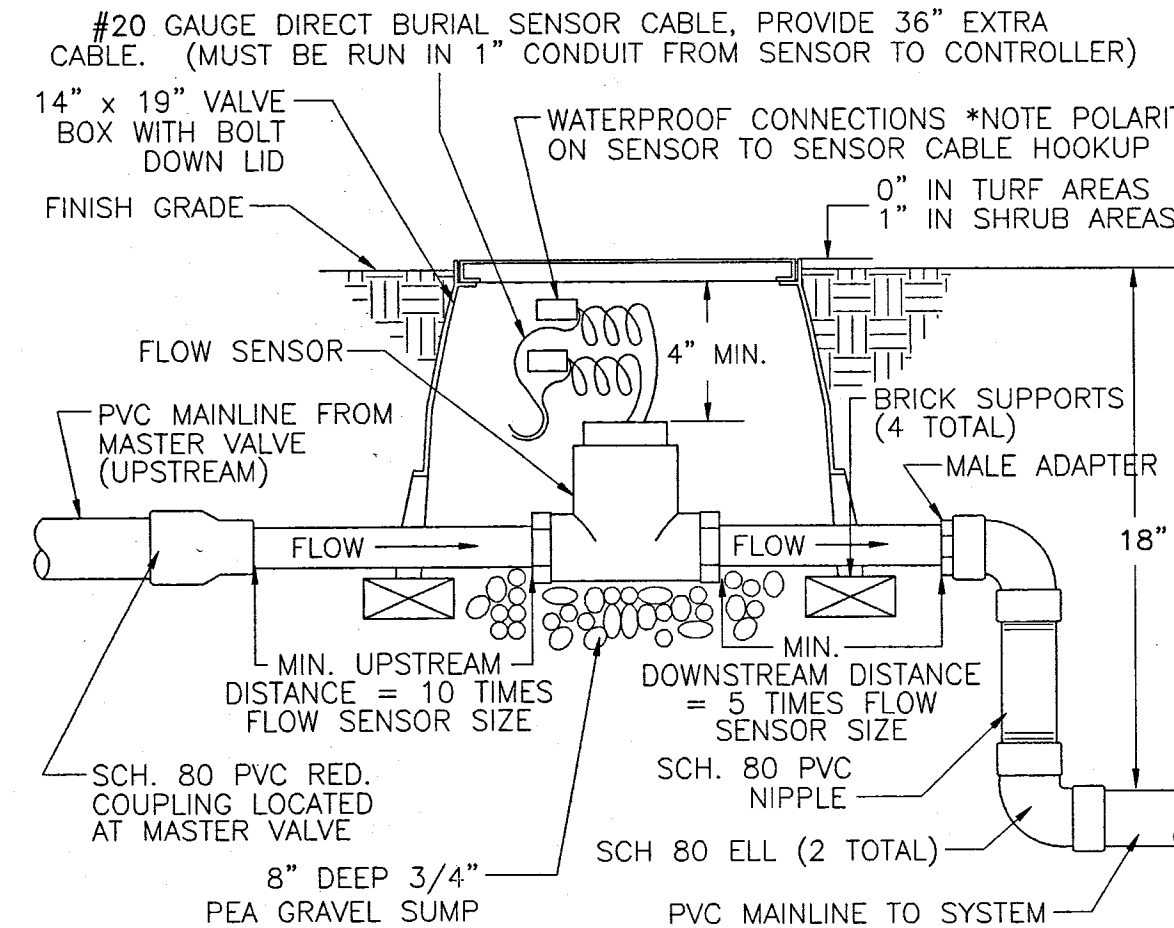
discrepancies of 10 PSI or more or flow rates lower than stated Irrigation Demand on plans to Owner's Representative and Landscape Architect. If there are discrepancies of 10 PSI or more or flow rates lower than stated Irrigation Demand on plans, system may not perform correctly - do not proceed with irrigation system installation until corrective measures are determined. Note, Contractor shall be responsible for any corrective measures required to the existing static psi for the irrigation system, at no additional cost to the Owner, if irrigation system is installed without required tests, and discrepancies in Pressure and Flow at the P.O.C. are discovered that prevent the irrigation system from functioning correctly.

24. Meter(s) indicated on the Drawing(s) is supplied and installed by others, unless otherwise indicated. The Contractor is responsible for furnishing all proper fittings.
25. All irrigation piping shall be subjected to hydrostatic pressure tests as follows before backfilling trenches: Valves, pumps, and accurately calibrated recording gauges shall be installed in at least two places. Supply lines shall be tested at 125 psi for at least 4 hours with an allowable loss of 5 psi. Laterals lines shall be tested at the existing static psi for at least 1 hour with an allowable loss of 5 psi. Any leaks shall be corrected and piping re-tested until the system meet the requirements. The Contractor shall notify the Owner's Representative at least 3 days in advance of the time that the irrigation system piping is to be tested. Submit written test results to Owner's Representative and Landscape Architect.
26. Contractor to notify all local jurisdictions for inspection and testing of installed backflow prevention device.
27. Irrigation demand: See Irrigation Plans.
28. The entire irrigation system shall be operating properly before any lawn or ground cover is planted.
29. The Contractor shall provide Owner with a clean set of marked prints of "RECORD DRAWINGS" drawings. Reference all trenches, valves, controllers, splice boxes, quick couplers, backflow preventers, water meters, with dimensions to nearest building or paving.
30. See notes on irrigation plans for additional requirements.
31. Bio-treatment grass areas with buried dripline irrigation tubing shall be hand watered by Contractor until plant material is established.
32. The Contractor shall guarantee the irrigation system will be free of defects of workmanship and materials for a period of one year. All repairs necessary shall be made at no cost to the Owner, with the exception of repairs and labor cost made necessary by vandalism.



1 MASTER REMOTE CONTROL VALVE DETAIL
NOT TO SCALE

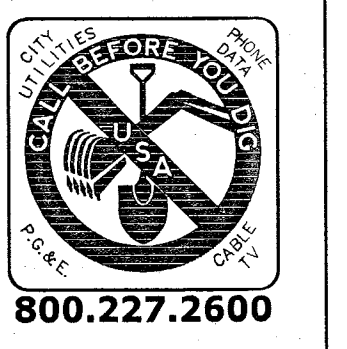
- NOTES:
1. FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) VERTICAL AND BODY (TEE) POSITIONED HORIZONTALLY.
 2. INSTALL CREATIVE TECHNOLOGY ISOFLOW MODEL 300 UNIT IN FLOW SENSOR VALVE BOX. CONNECT TO FLOW SENSOR & CONTROLLER'S "A" & "B" PER MANUFACTURER'S SPECS, TO ALLOW BOTH CONTROLLERS TO SHARE THE FLOW SENSOR CONNECTION.



2 FLOW SENSOR INSTALLATION DETAIL
NOT TO SCALE

RESUBMIT 1/L
MAR 27 17
San Mateo County Building Dept

CLIENT:
CHAMBERLAIN GROUP
655 Skyway, Suite 230
San Carlos, CA 94070
(650) 595.5682



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PROJECT MANAGER:
DESIGNED BY:
CHECKED BY:

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
CALIFORNIA
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	REVISIONS	DATE	BY

SHEET TITLE:
IRRIGATION SPECIFICATIONS & DETAILS
SCALE:
AS SHOWN
ISSUE DATE:
3/17/17
PROJECT NO.:
V1355
SHEET NO.:
L4.6

REVIEWED FOR CODE COMPLIANCE
This review does not constitute a violation of State or County building laws.
NC 13 2019
SAN MATEO COUNTY BLDG. INSP. DIV.

GENERAL NOTES:

- Contractor shall verify all existing site conditions prior to beginning construction. Notify Owner's Representative of any discrepancies.
- The Contractor shall provide all materials, labor and equipment to complete all landscape work as shown on the plans and specifications.
- If there is a conflict with the utilities and the planting, the Owner's Representative is to be responsible for spotting new plant locations prior to the planting process.
- The Contractor shall be responsible for any damage to existing utilities, pavement or improvements. All repairs shall be made at no expense to the Owner.
- The Contractor shall notify the Owner's Representative prior to beginning construction and shall keep the Owner's Representative informed of progress of work throughout landscape construction.
- All work shall be installed in conformance with all applicable local codes and ordinances by experienced workmen and a licensed Contractor who shall obtain all necessary permits and pay all required fees.
- Any requirement in the Plans and / or Notes and Specifications shall be considered binding. In case of discrepancies, the Owner's Representative shall be contacted immediately.
- It is the Contractor's responsibility to schedule regular site visits by the Owner's Representative/Landscape Architect throughout landscape construction, at the beginning of the maintenance period, and final site review will be required.
- Execute weekly cleaning of the site throughout the contract period to remove all waste materials, rubbish, plant containers, etc.
- See Civil Engineer's improvement plans for all general grading information and notes.
- All written dimensions supersede scaled distances. All dimensions are taken from back of curb, face of building, face of wall finish or face of fence.
- Upon award of bid and prior to any construction, the Contractor shall perform the Percolation and Soils Testing as specified in the Planting Notes. If these tests have not already been performed, if drainage is found to be insufficient, or soils test results identify conditions requiring extraordinary or corrective measures, the Contractor shall immediately alert the Owner's Representative and Landscape Architect of any such problems, for corrective action and/or additional drainage treatment.

GRADING NOTES:

- See Civil Engineer's Grading & Erosion Control Plans.
- Rough grading and site drainage shall have been completed prior to Landscaping work. Verify all existing site conditions and report any discrepancies to Owner's Representative.
- Contractor shall be responsible for finish grading. Verify positive drainage at a minimum 2% slope in landscape areas away from buildings and paved surfaces. Shrub areas shall be 1-1/2" below top of adjacent paving, headers, or curbs. No low spots which hold standing water will be permitted.
- All salvageable, clean top soil from areas to be paved shall be stockpiled to be used as fill in planting areas.
- Avoid soil compaction in existing and proposed landscaped areas. All equipment or stockpiling should be located away from all proposed landscaping to reduce compaction.

CONSTRUCTION NOTES:

- Concrete work: Install concrete work as detailed. Layout of concrete work shall be as shown on construction plans and as specified below.
 - Layout shall be approved by Owner's representative/Landscape Architect prior to concrete pour. Contact Owner's Representative two days in advance.
- Paving Installation:
 - Concrete Materials: For paving, concrete shall be a 5 sack mix producing concrete having a 28 day strength not less than 2500 psi. For walls concrete shall be 6 sack mix.
- Portland cement: Conforming to ASTM C150, Type I or II. Total alkali content not to exceed 0.60%. Deliver cement and all materials in labeled, unopened containers.
- Form coatings: Standard product resin type sealer. Do not use form oil or any oil-bearing material.
- Concrete aggregates: Conform to ASTM C33. Maximum 3/4" size aggregate.
- Base course aggregates: Conform to ASTM C33. Maximum 3/4" size aggregate.
- Water: Clean and potable.
- Forms: Form material is Sub-contractor's option.
- Admixtures or finish retardants: For workability, where approved by Owner's representative, and admixture may be added in accordance with manufacturer's recommendations. Obtain approval of material prior to use.
- Expansion joint material: 3/8" thick pre-molded joint filler, conforming to ASTM D1751 or D1752.
- Reinforcing steel:
 - Bars: Deformed, intermediate grade, conforming to ASTM A615, Grade 40 for sizes #5 and smaller.
 - Tie wire: Annealed copper-bearing steel wire, minimum 16 gauge.
- Welded wire mesh: 6" x 6" x #10.
- Liquid curing compound as required: Thompson's approved standard product fugitive resin type, or equal conforming to ASTM C309, free of wax or oil, compatible with subsequently applied finishes or coverings, not deleterious to bond of cementitious materials to aggregate.
- Patching mortar: One part Portland cement or equal (part white and part gray adjusted to match color of surrounding concrete) and 2-1/2 parts sand with the least water required to produce a workable mass. Rework this mortar until it is the stiffest consistency that will permit placing.
 - Concrete Installation:
 - Construct the subgrade true to grade and detail as shown. Compact subgrade to 90% maximum density at optimum moisture content.
 - Set forms with upper edges true to line and grade. Properly brace or tie together to maintain position and shape. Remove side forms not sooner than 12 hours after finishing has been completed. Form curves and straight sections for smooth and continuous lines. Secure Owner's representative's approval of subgrade compaction and moisture content and form alignment prior to pouring concrete.
 - Embedded items: Do not place any concrete until all inserted items such as sleeves, anchor bolts, wood, nails, dowels, etc. are installed in their proper locations, secured against displacement, cleaned, inspected and approved. Furnish ties and supports necessary to keep embedded items in place when concrete is placed.
 - Weather: Do not place concrete during rain unless approved measures are taken to prevent damage to concrete.

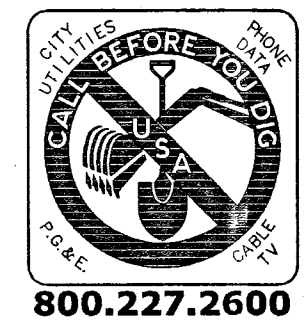
- Deposit concrete evenly, consolidate with mechanical vibrators, particularly at side forms and strike off to indicated elevations and contour.
- Concrete finishes shall be even surfaces of uniform texture and appearance, free of unsightly bulges, depressions and other imperfections and as follows:
 - Medium broom finish: Broom with coarse bristled broom across width of flatwork to a uniformly roughened surface. Finished surface and edges shall be clean with uniform and reasonably straight lines. Submit Sample.
 - Light broom finish: Broom with janitor's push broom type, with soft bristles, across width to a uniformly roughened surface. There shall be no deeply incised or obvious lines. Submit sample.
 - Steel trowel finish: After floating, and no free water is evident and/or no cement sticks to the finger when touching slab, steel trowel until hard. All trowel marks eliminated. Final trowelling done when a ringing sound is produced as the trowel is moved over the surface.
 - Joints: Joints shall be tooled with one-quarter inch (1/4") radius edging tool or as shown on plans.
 - Edges: Edge slabs one-half (1/2") inch radius, edge curbs and other structures three-quarters inch (3/4") radius unless otherwise shown.
- Remove flange marks: Remove flange marks resulting from tooling of edges by carefully trowelling out, unless specifically detailed in plans.

CARPENTRY NOTES:

- Wood materials: See details for type of wood for each item.
- Wood shall be selected for straightness and smoothness, size and grade as shown in plans.
 - Workmanship: Carefully plan and layout the work as required. Properly accommodate the work of other trades. Accurately saw-cut and fit lumber into the respective locations, true to line, grade, and level, as indicated or required, and permanently secure in proper position with spikes, nails, lag screws, bolts, hangers, or other fasteners to make the work substantial and rigid in all parts and connections.
 - Connections: Make connections between members tight, accurate and secure. Place fastenings without splitting wood; predrill when required. Drill bolt holes same size as bolt diameter. Drill holes for lag screws same size as thread root diameter, and counterbore, same depth and diameter as shank. Turn lag screws into place; do not drive. Provide bolts and lag screws with washers under every head and nut bearing on wood. Tighten bolts and lag screws at installation: carefully retighten just prior to closing in, or at completion of project.
 - Finishing: As per plan.
 - Redwood header layout: All curved sections shall be smooth and continuous. Layout shall be approved by Owner's representative.
 - Hardware:
 - All metal bolts, nails, screws and other hardware shall be galvanized steel, sized as shown on the plans.
 - All visible hardware shall be painted with two coats of black rustproof paint or to match architectural colors. Color to be approved by Owner's representative.
 - All hardware for metal gates to be approved by Owner's representative.
 - Metals:
 - Provide complete shop drawings for all metal fabrication.
 - Fabricate all exterior steel work in shop, including all welding. All metal work shall conform to ASTM specifications. Miter corners and angles of moldings or frames unless otherwise noted.
 - Shop primer: One coat of primer, semi-quick drying. Painting: After material has been properly cleaned, apply shop primer coat of paint to all surfaces. Apply all paint in accordance with manufacturer's directions. Spot paint all abrasions and field connections after assembly.
 - Installation: Set all work plumb, true, rigid and neatly trimmed out as detailed. Provide all necessary connections, anchor bolts etc. required to fit metal with other work.
 - Protect all metal from damage to surface, profile or to shape from shop through construction to final acceptance of project.
 - Color: Color to be approved by Owner's representative, submit sample for approval.
 - All defective work shall be repaired or replaced as directed Owner's representative.
 - All exposed site metal for utilities, irrigation, etc., shall be painted with one coat brown rustproof paint.

REVIEWED FOR CODE COMPLIANCE
 This review does not authorize violation of
 State or County building laws
 NOV 13 2019
 SAN MATEO CO. BLDG. INSP. DIV.
Van Dorn

CLIENT:
CHAMBERLAIN GROUP
 655 Skyway, Suite 230
 San Carlos, CA 94070
 (650) 595-5582



VAN DORN ABED
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PROJECT MANAGER:
 PROJECT MANAGER:
 CHECKED BY: 7A

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
 CALIFORNIA
 SAN MATEO
 DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	DESCRIPTION	DATE

SHEET TITLE:
LANDSCAPE NOTES & SPECIFICATIONS
 SCALE:
 ISSUE DATE:
3/17/17
 PROJECT NO.:
V1355
 SHEET NO.:
L5.0
 OF

RESUBMITTAL
 MAR 27 2017
 S. MATEO CO. BLDG. INSP. DIV.

PLANTING NOTES:

1. Submittals: Contractor shall submit the following items to Owner's Representative and Landscape Architect for review/approval prior to beginning planting installation operations:
 - A. Soils tests: initial site soils test & post amendment installation test.
 - B. Vendor data for landscape products, including: bark mulch, root barriers, fertilizers, soil amendments, and soil conditioners.
 - C. Written results of percolation tests.
3. The Contractor shall verify the availability of all landscape plants within 10 days following award of the contract. Discrepancies or other problems and all plant substitutions shall be resolved at this time. If a substitute is authorized by the Owner's Representative, it must be of the same size, value and quality as the original plant.
4. All trees and representative samples of shrubs/ground covers shall be inspected at the site for approval by the Owner's Representative and meet the following standards:
 - A. Quality and size shall conform to the State of California Grading Code of Nursery Stock, No. 1 grade and to the current issue of the American Standard for Nursery Stock published by the American Association of Nurserymen. Use only nursery-grown stock. The Owner's Representative will inspect plants for approval prior to any installation.
 - B. Plant material must be selected from nurseries that have been inspected by state or federal agencies.
 - C. Nomenclature will be in accordance with Hortus III.
 - D. Plant materials will not be accepted that are overgrown, root-bound, or too recently canned so that the root system is not thoroughly established throughout the can. Pruning shall not be done prior to delivery except as authorized by the Owner's Representative.
5. Soil, Mulch, Amendments:
 - A. Soil Test: Contractor shall submit three (3) representative soil samples to Soil and Plant Laboratory, Santa Clara or approved equal to be tested for agricultural suitability and fertility with pre-plant and post-plant recommendations, immediately following the completion of rough grading. Soil samples shall be taken from location determined by the Owner's Representative. Soil shall be certified as clean and free of hazardous material or waste contamination. Notify Owner's Representative of any soils problems noted in the soils test report that could potentially affect/impact plant health, including but not limited to the following: high or low soil pH, poor soil drainage, excessive soil compaction, different soil types in the same test sample, deficient or excess nutrient levels, high salt levels, high boron or other elements and compounds toxic to plants, etc. Submit report to Landscape Architect and Owner's Representative for review and approval prior to beginning work. Do not proceed with any amending operations until soils report has been reviewed and approved.
 - B. Compost to be used for soil amendment at the rate indicated by the soil analysis to bring the soil organic matter content to a minimum of 3.5% by dry weight or 2" of compost. Contractor may 1) import topsoil to meet organic matter content listed, or 2) submit soils report that identifies existing topsoil meets or exceeds the specified organic matter content. (Bay-Friendly score card item C.7.a.)

Compost to be added as follows in all planting areas at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil. Soils with greater than 6% organic matter in the top six inches of soil are exempt from adding compost and tilling. (Applied rates of soil amendment and commercial fertilizer shall be used for bidding purpose until determined by soil tests.)

Amount per 1000 square feet:
4 cubic yards Compost
20 lbs. 6-20-20 fertilizer (Best's Cropmaker)
10 lbs. 0-25-0 Single super phosphate
10 lbs. Iron sulfate
 - C. Soil amendment in all planting areas shall be uniformly spread and thoroughly incorporated to a soil depth of 6" minimum by repeated rotary hoe cultivation prior to planting.
 - D. Post Amendment Installation Soil Testing for Compliance: After incorporating amendments, fertilizers and conditioners, Contractor shall take three (3) representative soil samples and have samples tested for Agricultural Suitability and Fertility by an approved soils analysis laboratory for compliance with original soil test report recommendations. Add any additional amendments, fertilizers and conditioners recommended by soils analysis laboratory at no cost to Owner. Notify Owner's Representative of any potential soils problems noted in the report. Submit report for amendment/fertilizer/conditioner compliance to Landscape Architect and Owner's Representative prior to beginning planting operations.
 - E. A minimum three inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, groundcover, or direct seeding/hydroseed applications. Organic mulch materials made from recycled or post-consumer shall take precedence over inorganic materials or virgin forest products unless organic or recycled, post consumer products are not locally available. Organic mulches are not required where prohibited by local Fuel Modification Plan Guidelines or other applicable local ordinances.
6. Tree and Shrub Planting:

Prior to digging holes for final planting, the Contractor shall spot all trees as shown on the Drawings for approval by the Landscape Architect.

 - A. Soil amendments and fertilizer shall have been incorporated into the soil prior to tree and shrub planting.
 - B. Dig pits as shown on Drawings.
 - C. After pits are dug, break sides and bottom of holes to open wall of pit for root penetration.
 - D. Percolation Test: All plant pits shall be tested for sufficient drainage prior to planting. Representative plant pits shall be dug (at least 2) at site upon award of Bid to test for general site subgrade drainage conditions. Individual planting pits shall also be tested again for sufficient drainage prior to planting. Contractor shall fill plant pits with water, to see if subsoil conditions will cause retention of water within plant pits overnight. If standing water is still observed after 12 hours, then Contractor shall alert Owner's Representative and Landscape Architect of the problem.
 - E. Planting backfill mix for trees and shrubs shall be:

Amount per Cubic Yard:
3/4 cubic yard On site soil
1/4 cubic yard compost
1.5 lbs. 6-20-20 fertilizer (Best's Cropmaker)
2.5 lbs. 0-25-0 Single super phosphate

1 lb. Iron sulfate

(Applied rates of soil amendment and commercial fertilizer shall be used for bidding purpose until determined by soil tests)

- F. Fertilize plants at the time of planting with Agriform 21-gram fertilizer packets, 20-10-5: 2 per 1 gallon can; 3 per 5 gallon can; 4 per 15 gallon can; specimen trees-3 per inch of caliper.
- G. Plants shall be erect after planting, and staked or guyed as detailed at the time of planting. Remove nursery stakes.
- H. Rootball crown shall be 2" above finish grade after watering and settling.
- I. Tree and shrub plantings shall be watered and flooded to eliminate air pockets within 2 hours of the time of planting.
- J. All vines shall be trained to posts, fences or walls by tying select individual branches with plastic covered wire ties as follows: ties shall be attached to wood surfaces with 3/4" galvanized iron staples and attached to stucco or masonry surfaces with epoxy as recommended by manufacturer. See planting details.
- K. All trees shall be planted 10'-0" minimum from buildings including overhangs and 5'-0" minimum from curbs, paving, fences, etc. Orient main branches of trees away from building. Should any discrepancies occur between field conditions and planting plans contact Owner's Representative. All trees closer than 5'-0" from curbs, foundations, sidewalks, or other hardscape items, shall be installed with linear root deflector panels protecting adjacent hardscape items, but never fully surrounding rootball. Install a 10 foot by 24 inch deep section of linear interlocking root deflector panels, centered on tree (5 feet on each side), located at curb, foundation, sidewalks, other hardscape items, unless otherwise indicated. See plans for detail.
- L. All trees shall be planted a minimum of 5'-0" away from storm drain, or other underground utility lines (or per code), and 10'-0" away from sanitary sewer lines (or per code), and 15'-0" minimum away from utility poles or light standards (or per code).
- M. All planting areas to receive 3" layer of bark mulch, natural color, no dyes. Maintain a 6" clear area around base of trees and shrubs to allow for air flow and not to suffocate the new planting with mulch.
- N. All trees and shrubs shall have watering basins around them. Basin diameters shall be the same size as the tree or shrub's rootball. Basins shall be formed with level bottoms and 3 inch high walls.
- O. Soil amendments shall have been incorporated into the soil prior to planting.
- P. Clear planting areas of rocks and debris greater than 1" diameter.
- Q. Apply a pre-emergent herbicide, per manufacturer's directions.
- R. Maintain erosion control mats & hydroseed or mulch on all disturbed slopes as indicated on Erosions Control Plans.
- S. Thirty (30) days after planting, replace all dead plants and fill in bare areas. Top dress with 16-6-8 fertilizer at 7 lbs./1000 sq. ft. when ground is dry and thoroughly irrigate promptly after application

(Applied rates of soil amendment and commercial fertilizer shall be used for bidding purpose until determined by soil tests)

7. NOT USED

8. Workmanship:

Precautions shall be taken to avoid damage to existing plants, turf and structures. Any areas damaged shall be restored to their original condition.

9. Clean-up:

Keep all areas of work clean, neat and orderly at all times. Keep all paved areas clean during planting and maintenance operations.

10. Site Visits and Approvals:

The Contractor shall contact the Owner's Representative for review and approval of plant materials and plant locations. The maintenance period begins following acceptance of plant installation.

11. Maintenance:

- A. Begin maintenance after each plant is installed and continue until Final Acceptance.
- B. Maintenance Period shall begin upon inspection and approval by Owner's Representative and shall be for 60 calendar days.
- C. Maintenance of new planting shall consist of watering, cultivating, weeding, mulching, re-staking, tightening and repairing of guys, resetting plants to proper grades or upright position, restoration of the planting saucer, and furnishing and applying such sprays and invigorates as are necessary to keep the plantings free of insects and disease and in thriving condition.
- D. Protect planting areas and plants at all times against damage of all kinds, including frost, for duration of maintenance period. Maintenance includes temporary protection fences, barriers, covers during frost and signs as required for protection. If any plants become damaged or injured, treat or replace as directed by Landscape Architect at no additional cost to Owner.

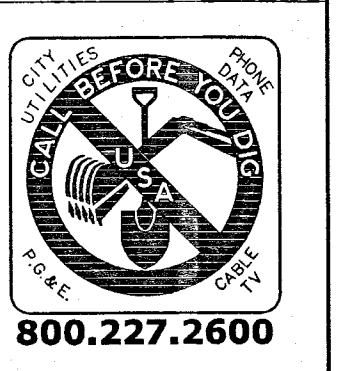
13. Guarantee:

- A. Replacement trees shall be in thriving condition 3 years from the date of final acceptance. Any replacement trees which have lost at least 30% of their normal foliage or are not in vigorous growing condition shall be replaced.
- B. All other trees, shrubs, grasses, ground covers shall be in thriving condition 1 year from the date of final acceptance. Replace any trees which have lost at least 30% of their normal foliage or are not in vigorous growing condition.

REVIEWED FOR COUNTY COMPLIANCE
This review does not authorize violation of State or County building laws.

NOV 13 019
SAN MATEO CO. E. DG. INSP. DIV.
[Signature]

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PROJECT MANAGER: MW
DESIGNED BY: MW
CHECKED BY: ZW

PROJECT NAME/LOCATION:
HIGHLAND ESTATES
CALIFORNIA
SAN MATEO
DRAWING TITLE:
LANDSCAPE IMPROVEMENT PLANS

NO.	DESCRIPTION	DATE	BY:

REVISIONS:
SHEET TITLE:
LANDSCAPE NOTES & SPECIFICATIONS
SCALE:
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3/17/17
PROJECT NO.:
V1355
SHEET NO.:
L5.1

RESUBMITTED
MAR 9 2017
San Mateo County Inspection

BLD 2016-00158

2184 CORBIETHILL

LOT 10

2/3