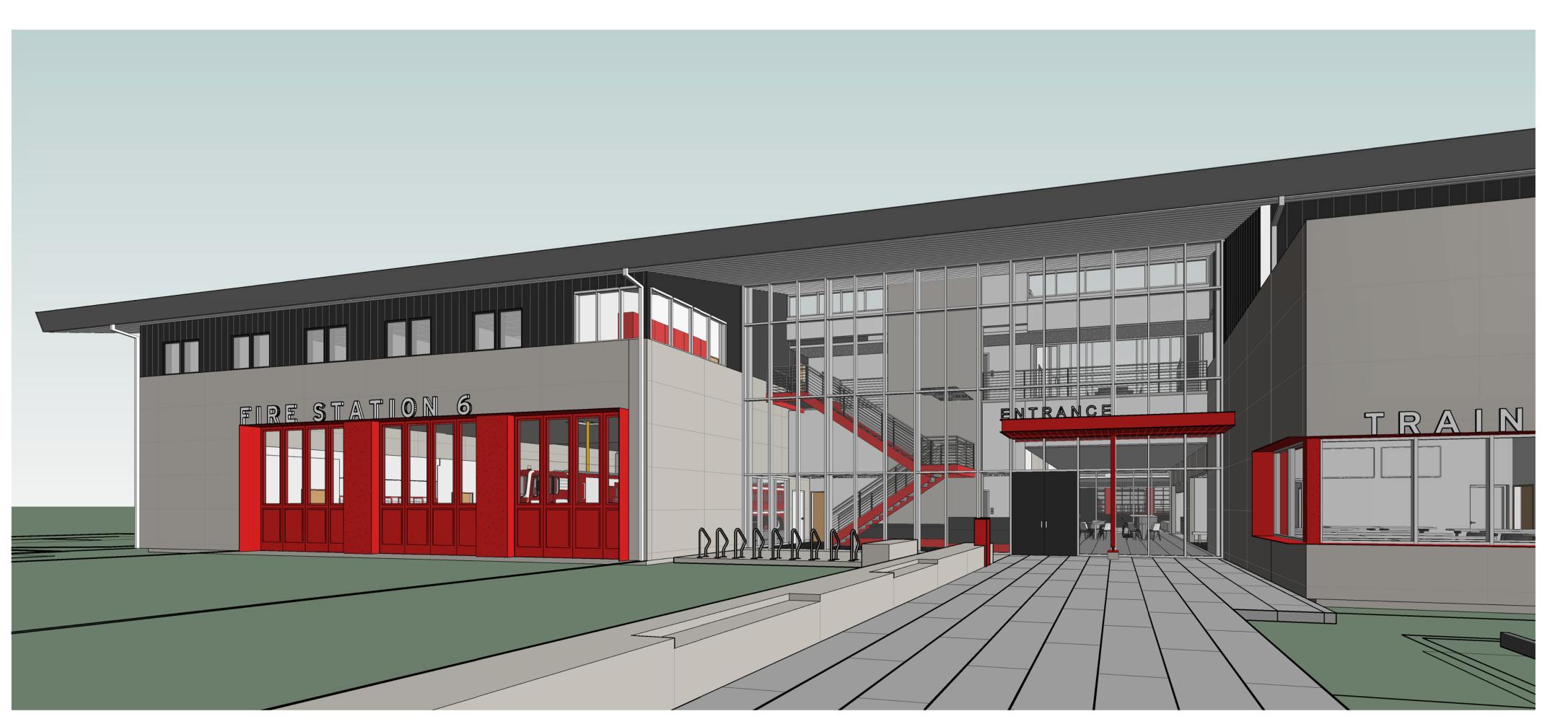
HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 WEST WINTON AVENUE, HAYWARD, CA. 94545

PLANNING SPR RESUBMITTAL

NEW FIRE STATION #6 CONCEPT RENDERING



CONCEPT RENDERING - NOT FOR CONSTRUCTION

LEED Consultant

(415) 398 - 3833

Signage Design

Square Peg Design

Oakland, CA 94612

(510) 596 - 8810

Cost Estimator

(415) 748 - 3093

Cumming

1631 Telegraph Avenue

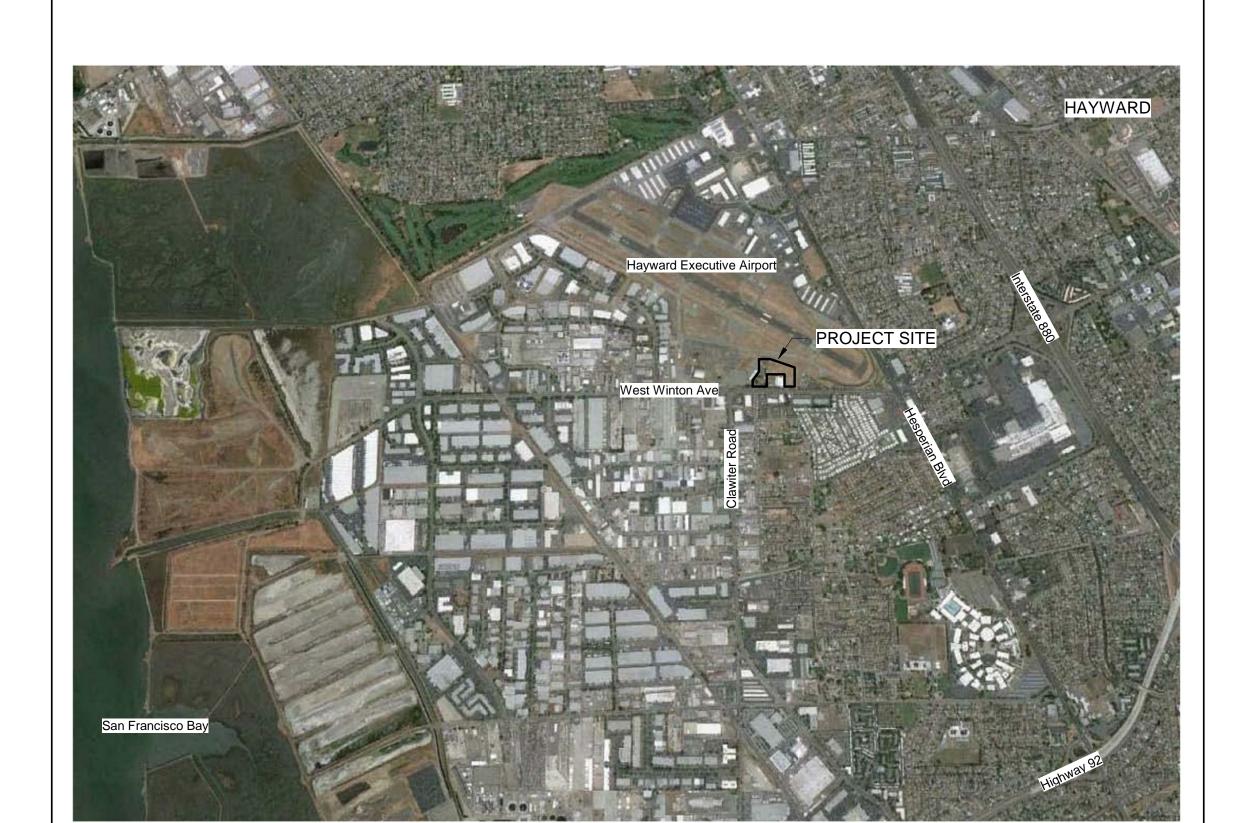
475 Sansome Street, Suite 520 San Francisco, CA 94111

WSP Group 405 Howard Street, Suite 500 San Francisco, CA 94105

AV - IT - Security Engineer

WSP Group 405 Howard Street, Suite 500 San Francisco, CA 94105 (415) 398 - 3833

VICINITY MAP



PROJECT SITE LOCATION MAP



PROJECT DIRECTORY

City of Hayward
Public Works Department 777 B Street
Hayward, CA 94541
(510) 583 - 4752
Architect of Record

Sonoma, CA 95476 (707) 996 - 8448 Fire Training Consultant Abercrombie Planning+Design 3508 Overton Park Drive West

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18294 Sonoma Highway

Geotechnical Engineer Rockridge Geotechnical 270 Grand Avenue Oakland, CA 94610 (510) 420 - 5738

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Civil Engineer **BKF Engineering**200 Fourth Street, Suite 300 Santa Rosa, CA 95401 (707) 583 - 8500

MacNair Landscape Architecture Post Office Box 251 Kenwood, CA 95452 (707) 833 - 2288

Structural Engineer **ZFA Structural Engineers** 1390 El Camino Real, Suite 100 San Carlos, CA 94070 (650) 394 - 8869

VOLUME DIRECTORY

VOLUME 1

VOLUME 2

		(Not included in this bound package)
Mechanical Engineer WSP Group 405 Howard Street, Suite 500	VOLUME 3	DESIGN DEVELOPMENT DRAWINGS
San Francisco, CA 94105 (415) 398 - 3833	VOLUME 4	SIGNAGE DRAWINGS (Not included in this bound package)
Electrical Engineer WSP Group 405 Howard Street, Suite 500 San Francisco, CA 94105 (415) 398 - 3833	VOLUME 5	FIRE PROP INTERFACE DRAWINGS (Not included in this bound package)

OWNER-SUPPLIED DOCUMENTS (Not included in this bound package)

PROJECT SPECIFICATIONS

COVER SHEET

Drawn By: EW

February 1, 2018

Project No. 2016039

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PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

ARCHITECTURE

STATION #6 & FIRE TRAINING CENTER

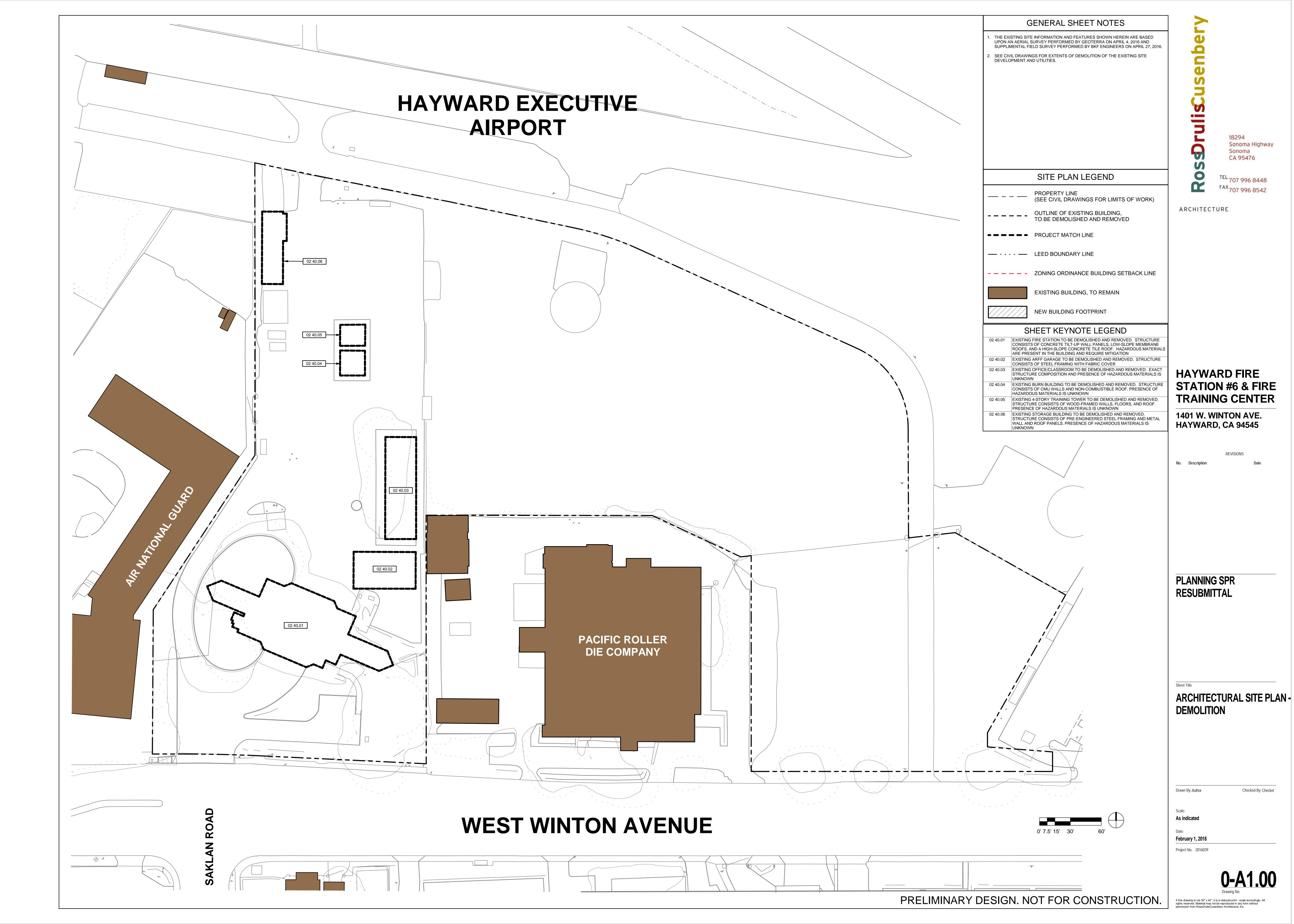
1401 W. WINTON AVE. HAYWARD, CA 94545

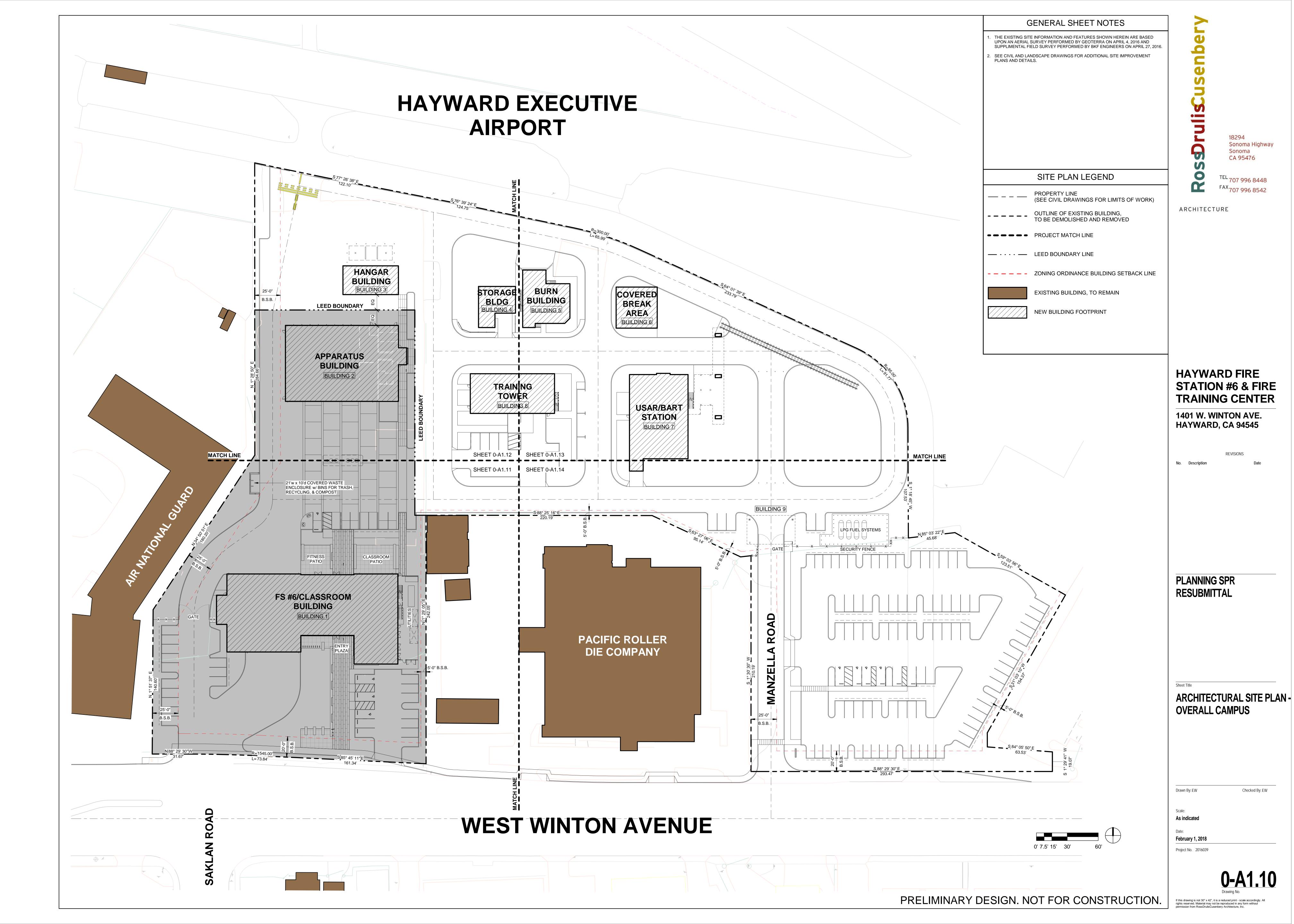
REVISIONS

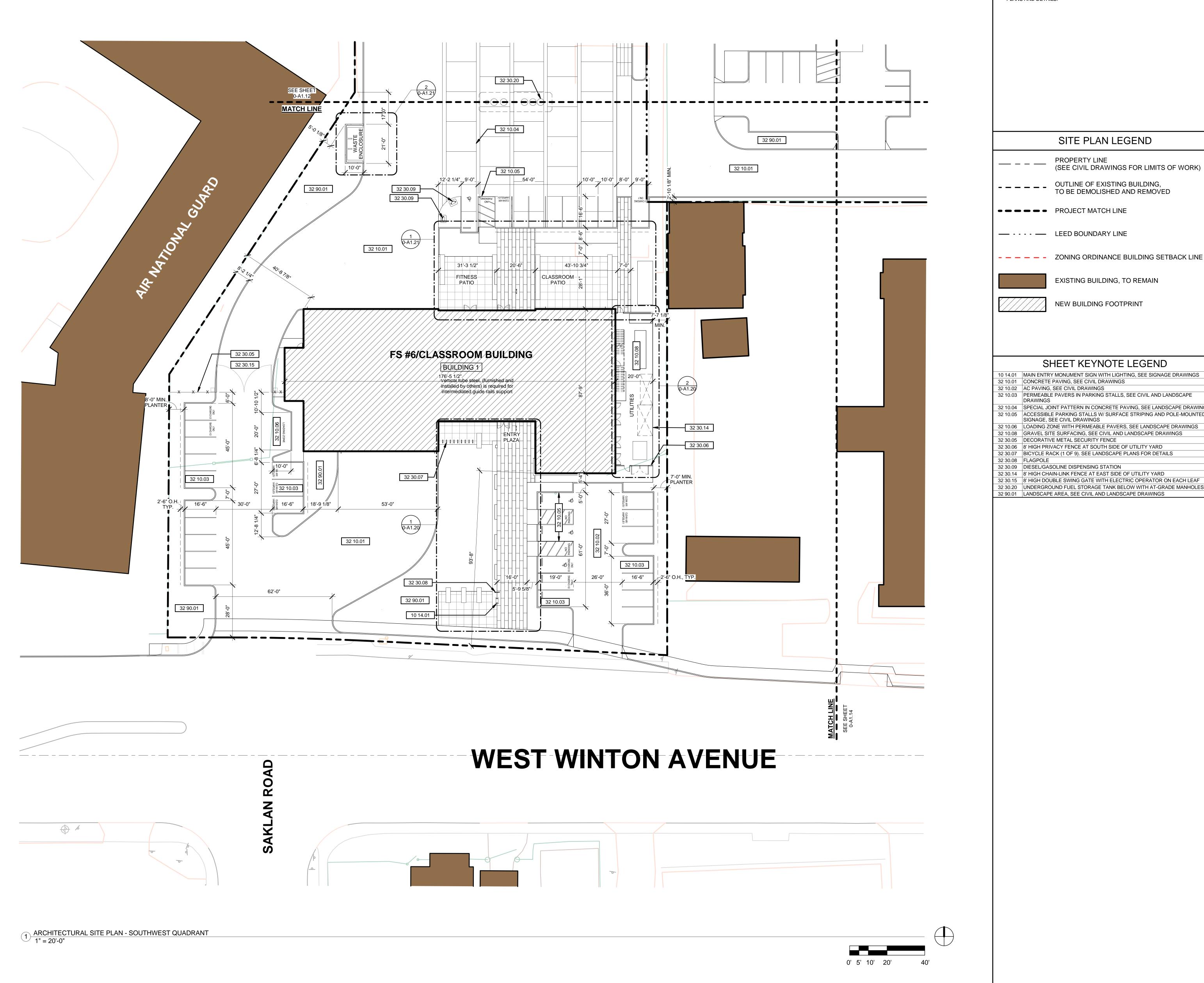
RESUBMITTAL

PLANNING SPR

Checked By: EW







GENERAL SHEET NOTES

THE EXISTING SITE INFORMATION AND FEATURES SHOWN HEREIN ARE BASED UPON AN AERIAL SURVEY PERFORMED BY GEOTERRA ON APRIL 4, 2016 AND SUPPLIMENTAL FIELD SURVEY PERFORMED BY BKF ENGINEERS ON APRIL 27, 2016. 2. SEE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE IMPROVEMENT PLANS AND DETAILS.

SITE PLAN LEGEND

PROPERTY LINE (SEE CIVIL DRAWINGS FOR LIMITS OF WORK)

OUTLINE OF EXISTING BUILDING, TO BE DEMOLISHED AND REMOVED

PROJECT MATCH LINE

— - - - - LEED BOUNDARY LINE

- - - ZONING ORDINANCE BUILDING SETBACK LINE

EXISTING BUILDING, TO REMAIN NEW BUILDING FOOTPRINT

SHEET KEYNOTE LEGEND

32 10.01 CONCRETE PAVING, SEE CIVIL DRAWINGS 32 10.02 AC PAVING, SEE CIVIL DRAWINGS 32 10.03 PERMEABLE PAVERS IN PARKING STALLS, SEE CIVIL AND LANDSCAPE DRAWINGS

32 10.04 SPECIAL JOINT PATTERN IN CONCRETE PAVING, SEE LANDSCAPE DRAWINGS 32 10.05 ACCESSIBLE PARKING STALLS W/ SURFACE STRIPING AND POLE-MOUNTED SIGNAGE, SEE CIVIL DRAWINGS

32 10.06 LOADING ZONE WITH PERMEABLE PAVERS, SEE LANDSCAPE DRAWINGS
32 10.08 GRAVEL SITE SURFACING, SEE CIVIL AND LANDSCAPE DRAWINGS 32 30.05 DECORATIVE METAL SECURITY FENCE

32 30.06 8' HIGH PRIVACY FENCE AT SOUTH SIDE OF UTILITY YARD
32 30.07 BICYCLE RACK (1 OF 9). SEE LANDSCAPE PLANS FOR DETAILS

32 30.08 FLAGPOLE 32 30.09 DIESEL/GASOLINE DISPENSING STATION

32 30.14 8' HIGH CHAIN-LINK FENCE AT EAST SIDE OF UTILITY YARD
32 30.15 8' HIGH DOUBLE SWING GATE WITH ELECTRIC OPERATOR ON EACH LEAF 32 30.20 UNDERGROUND FUEL STORAGE TANK BELOW WITH AT-GRADE MANHOLES
32 90.01 LANDSCAPE AREA, SEE CIVIL AND LANDSCAPE DRAWINGS STATION #6 & FIRE TRAINING CENTER

HAYWARD FIRE

Sonoma Highway

Sonoma CA 95476

TEL 707 996 8448

^{FAX}707 996 8542

ARCHITECTURE

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

No. Description

PLANNING SPR RESUBMITTAL

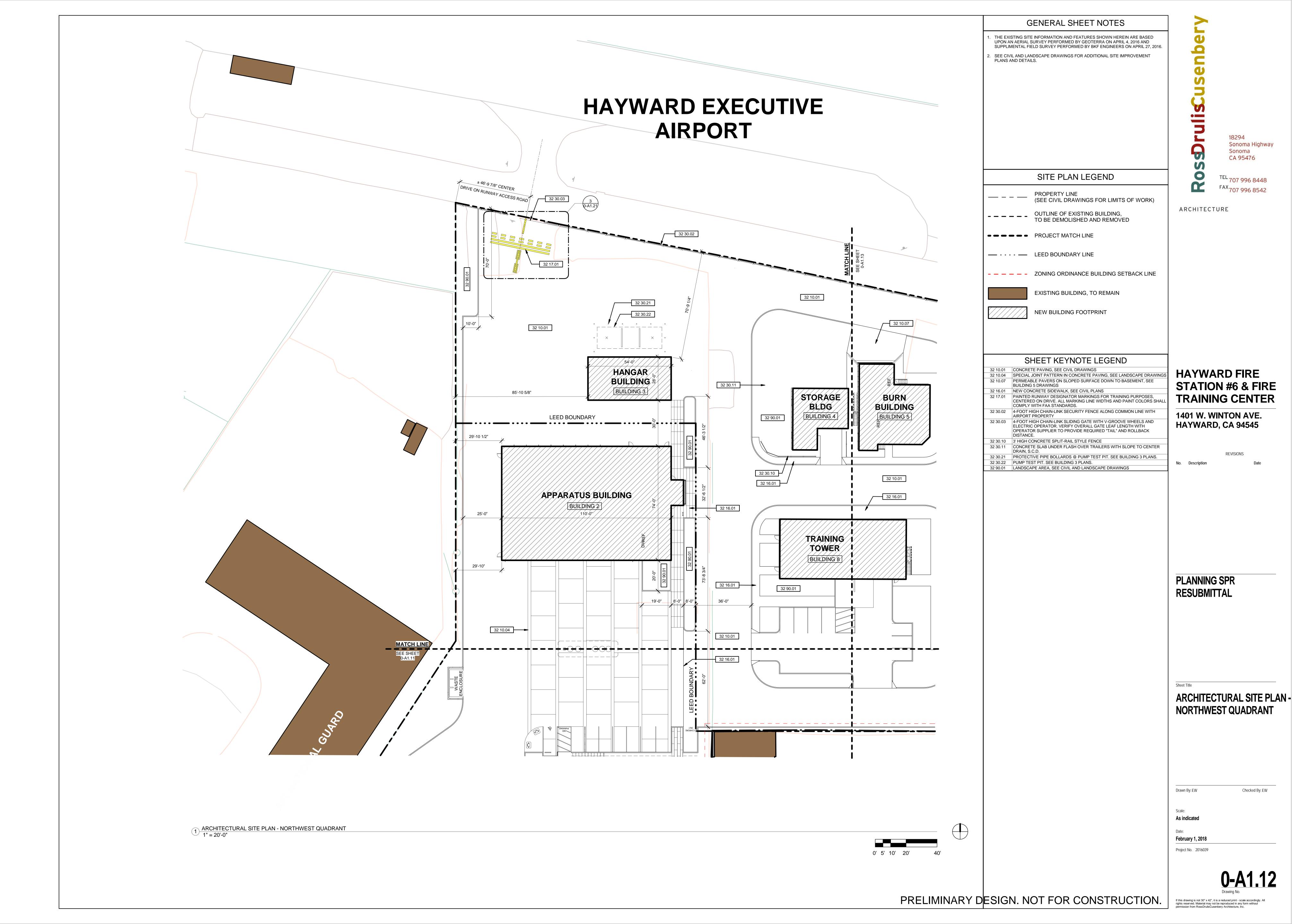
ARCHITECTURAL SITE PLAN -**SOUTHWEST QUADRANT**

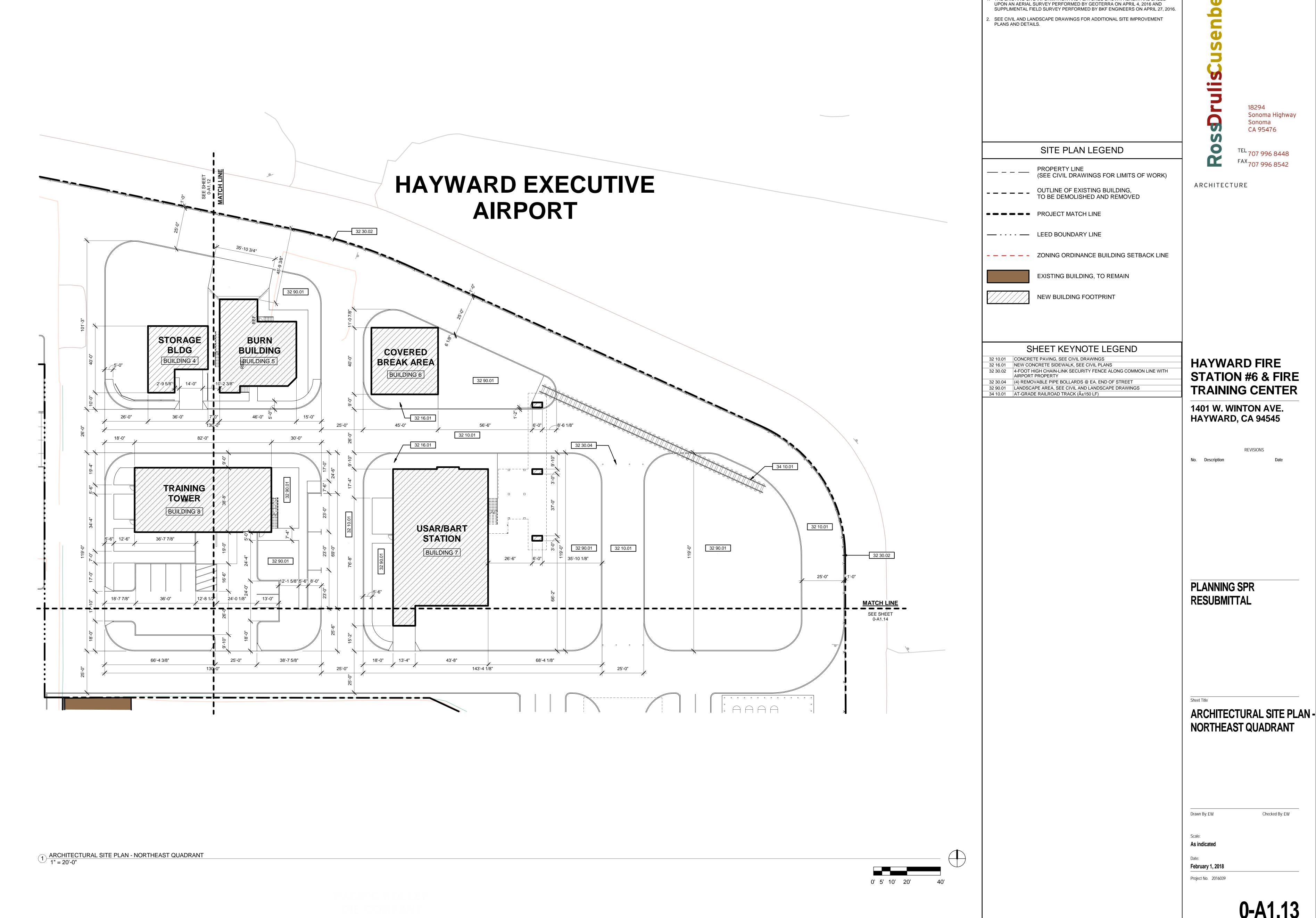
Checked By: EW

Drawn By: EW

As indicated

February 1, 2018 Project No. 2016039



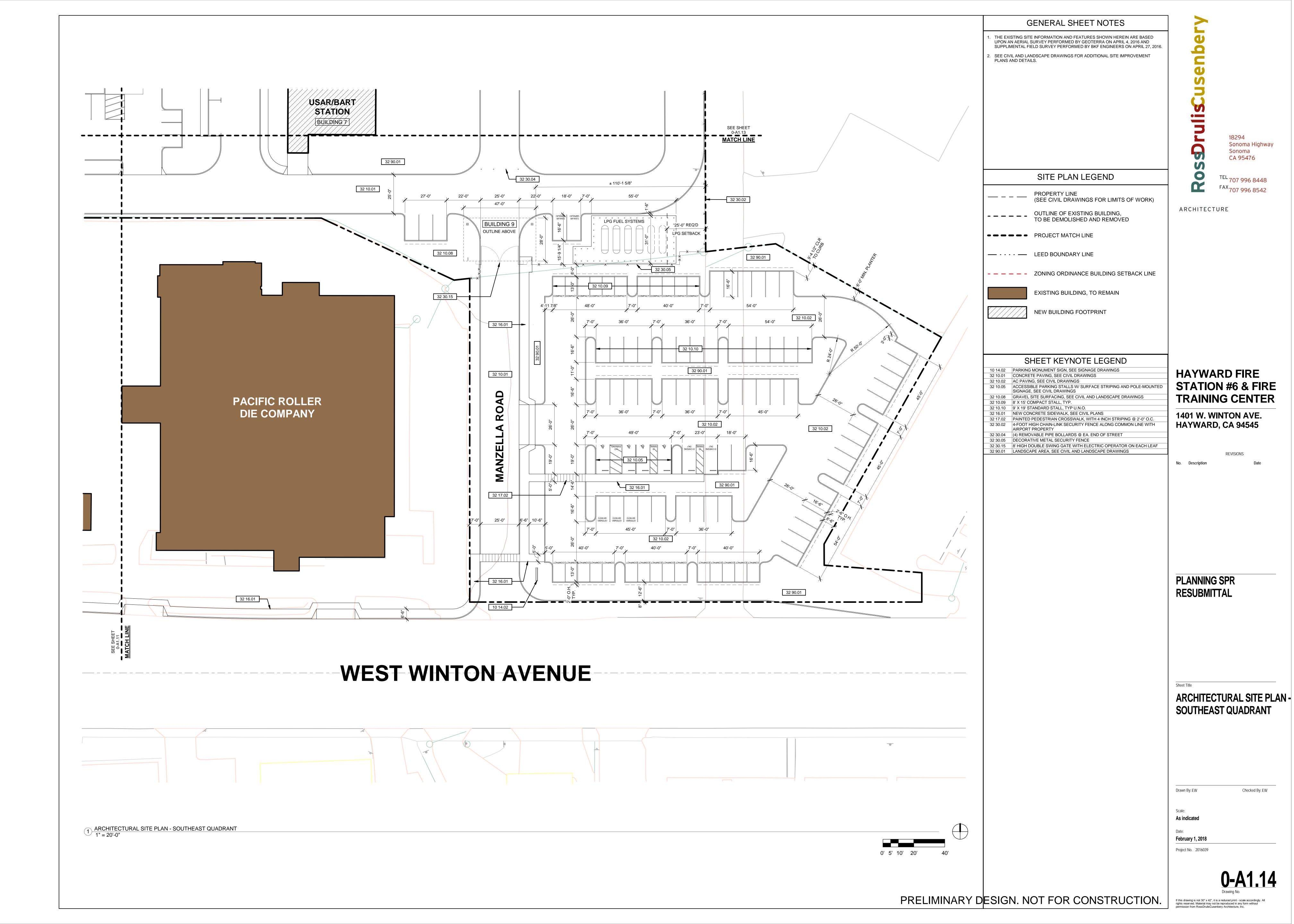


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GENERAL SHEET NOTES

THE EXISTING SITE INFORMATION AND FEATURES SHOWN HEREIN ARE BASED



2. CONTRACTOR COORDINATION: EACH CONTRACTOR SHALL COORDINATE AND OTHERWISE INTEGRATE WORK WITH THAT OF OTHERS IN AN EFFICIENT AND TIMELY MANNER SO AS TO PROVIDE THE CITY WITH A WELL-CONSTRUCTED EASILY MAINTAINABLE PROJECT. EACH CONTRACTOR SHALL NOTIFY OTHERS AT LEAST TWO WORKING DAYS IN ADVANCE OF COVERING, COMPLETING, OR EXPOSING WORK TO BE INSTALLED BY OTHERS,

3. UTILITIES: PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. THE UTILITY COMPANIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF THE U.S.A. 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 642-2444. EXCAVATION IS DEFINED AS ANY PENETRATION OF THE EXISTING SURFACE.

4. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE TYPES. EXTENT. SIZE. LOCATION AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, THE CITY OF HAYWARD CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES THAT ARE NOT SHOWN ON THESE DRAWINGS.

5. TREE PROTECTION AND MAINTENANCE REQUIREMENTS: ALL TRENCHING INSIDE OF A LINE 5 FEET OUTSIDE OF THE DRIP LINE OF EXISTING TREES TO REMAIN SHALL BE BY HAND, WITH CARE TAKEN NOT TO CUT OR DAMAGE ROOTS OVER 1-INCH DIAMETER. TREES TO REMAIN SHALL BE FENCED WITH TEMPORARY FENCING, SUCH AS STEEL STAKES (MAX. 5 FEET) WITH WIRE MESH FABRIC (6"x6") OPEN, CHAIN LINK OR SIMILAR, HEIGHT TO BE 5 FEET MINIMUM.

6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF HAYWARD MUNICIPAL CODE - CHAPTER 10, ARTICLE 3, CITY STANDARD DETAILS AND SPECIAL PROVISIONS, CALTRANS STANDARD SPECIFICATIONS AND PLANS, AND THE LATEST EDITION OF THE UNIFORM BUILDING CODE.

7. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BERRYMAN & HENIGAR, CIVIL ENGINEER AND THE CITY OF HAYWARD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGUGENCE OF THE CIVIL

8. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDER.

THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A REGISTERED CIVIL ENGINEER OR LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

10. PRIOR TO COMMENCEMENT OF ANY WORK ON ADJACENT PROPERTY. THE OWNER WILL OBTAIN WRITTEN PERMISSION FROM AFFECTED PROPERTY

11. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY.

12. ALL EXISTING STREETS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT AS SHOWN IN THE CONSTRUCTION STAGING PLANS OR AS PERMITTED BY THE CITY ENGINEER.

13. THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE AT THE TIME OF CONTRACT AWARD.

14. NO CHANGES SHALL BE MADE IN THE FIELD PRIOR TO RESUBMITTAL AND APPROVAL BY CITY ENGINEER OF REVISED PLANS

15. THE CONTRACTOR IS RESPONSIBLE FOR ANY OFF-SITE OR ON-SITE

SIGNS REQUIRED BY THE CITY, COUNTY, STATE OR ENGINEER. 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE

COVER FOR THE PROTECTION OF ALL INSTALLED UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS.

18. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS BETWEEN 7:30 AM TO 4:30 PM ON WEEKDAYS. THERE SHALL BE NO GRADING OR CONSTRUCTION ACTIVITIES ON THE WEEKENDS OR NATIONAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

19. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPING AND OTHER IMPROVEMENTS WITH SMOOTH TRANSITIONS IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID THE CREATION OF ANY LOW SPOTS OR HAZARDOUS CONDITIONS OR ANY ABRUPT OR APPARENT CHANGES IN APPEARANCE, GRADES, OR CROSS-SLOPES.

20. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF

21. ALL UNDERGROUND FACILITIES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF CURBS, FINAL PREPARATION OF SUBGRADE, AND PLACEMENT OF BASE MATERIALS. MANHOLE FRAMES AND UTILITY BOXES SHALL BE SET TO FINAL GRADE PRIOR TO PLACEMENT OF SIDEWALK, ASPHALT, CONCRETE CURB AND GUTTER.

22. EXISTING CURB AND GUTTER THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

23. GENERAL CONTRACTOR SHALL PROVIDE BARRICADES TO PROTECT THE GENERAL PUBLIC AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES.

24. NO WORK SHALL BE DONE ON THIS PROJECT PRIOR TO PRE-CONSTRUCTION CONFERENCE TO BE HELD IN THE ENGINEERING DIVISION.

25. ALL TRENCHES IN EXISTING CITY STREETS SHALL BE BACKFILLED AND PAVED WITHIN 24 HOURS OF EXCAVATION. STEEL PLATES MAY BE PLACED OVER UNBACKFILLED TRENCHES BEYOND THE 24-HOUR PERIOD WITH THE SPECIFIC APPROVAL OF THE CITY ENGINEER.

26. SOIL SAMPLING AND TESTING FREQUENCY SHALL CONFORM TO CHAPTER 6 OF THE CALTRANS CONSTRUCTION MANUAL AS SAID ITEMS ARE APPLICABLE TO THE CITY OF HAYWARD'S SPECIFICATIONS.

27. ALL STRIPING REQUIRED ON CITY STREETS SHALL BE DONE BY THE

28. ASPHALT CONCRETE SHALL BE COMPACTED TO RELATIVE COMPACTION OF NOT LESS THAN 95 PERCENT. RELATIVE COMPACTION WILL BE DETERMINED BY CALIFORNIA TEST 375. LABORATORY SPECIMENS WILL BE COMPACTED IN CONFORMANCE WITH CALIFORNIA TEST 304. THE ASPHALT CONCRETE WILL BE TESTED BY LOTS, AS SPECIFIED IN CALIFORNIA TEST 375. ANY LOT OF ASPHALT CONCRETE THAT HAS A RELATIVE COMPACTION OF LESS THAN 95 PERCENT SHALL BE REMOVED AND REPLACED.

29. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S

30. ALL STREET MONUMENTS AND OTHER PERMANENT MONUMENTS. DISTURBED DURING THE PROCESS OF CONSTRUCTION. SHALL BE REPLACED PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER.

31. THE CONTRACTOR SHALL GIVE THE CITY ENGINEER TWO DAYS ADVANCE NOTICE FOR EARTHWORK INSPECTION.

32. PEDESTRIAN, PUBLIC ACCESSES, WHEELCHAIR ACCESSES SHALL BE MAINTAINED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.

33. THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES AND SWEEP STREETS AS OFTEN AS NECESSARY DURING CONSTRUCTION AS REQUIRED BY

34. ALL ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE TO BE REMOVED SHALL FIRST BE FULL DEPTH SAW-CUT. ALL SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT OR SCORE MARK BEYOND THE POINT

35. ALL EXISTING OR NEW IMPROVEMENTS. INCLUDING CURB AND GUTTERS. SIDEWALKS. ASPHALT CONCRETE OR P.C.C. PAVING. WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER. INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT, PAVEMENT GRINDING AND CAPPING.

36. WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING CONCRETE AND AT CONSTRUCTION OR COLD JOINTS, THE TWO SHALL BE JOINED BY DOWELING WITH NO. 3X12" BARS AT 3'-0" O.C. MAXIMUM OR AS DIRECTED BY THE ENGINEER. A MINIMUM OF 2 DOWELS WILL BE REQUIRED AT TRANSVERSE JOINTS IN SIDEWALK.

37. ALL CONNECTIONS TO EXISTING ASPHALT SHALL BE ACCOMPLISHED BY FIRST SAWCUTTING THE EXISTING EDGE TO FULL DEPTH AND REMOVING WASTE. NEW ASPHALT SHALL BE INSTALLED AFTER CLEANING AND APPLICATION OF TACK COAT TO SAWCUT EDGE.

38. STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS, TYPE AND LOCATION SHALL BE APPROVED BY THE CITY ENGINEER.

39. ALL CONSTRUCTION AREAS SHALL BE PROPERLY POSTED AND LIGHTED IN CONFORMANCE WITH THE STATE MANUAL OF WARNING SIGNS, LIGHTS, AND OTHER DEVICES IN ORDER TO ELIMINATE ANY HAZARDS.

40. AT NO TIME SHALL PRIVATE PROPERTY BE USED IN CONJUNCTION WITH THE PROJECT UNLESS PROPERTY-OWNER APPROVAL IS OBTAINED IN WRITING AND APPROVED BY THE CITY.

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF HAYWARD DESIGN AND CONSTRUCTION STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF HAYWARD (SUCH AS ENCROACHMENT, GRADING, BUILDING, DEMOLITION ETC.) PRIOR TO COMMENCEMENT OF WORK.

AN ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

THE CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD FOR DE-WATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM EXCAVATIONS AND THEIR DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. APPROVAL MUST BE OBTAINED FROM THE CITY OF HAYWARD ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO DISCHARGING GROUNDWATER TO THE SEWER.

FEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE AREAS OR WITHIN 10 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES TALLER THAN 2.5 FEET SHALL NOT BE WITHIN 50 FEET OF AN ADJACENT RESIDENTIAL

TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES UNLESS A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT IS OBTAINED FOR THE STOCKPILE.

CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.

IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE CITY FIRE DEPARTMENT AND THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD (NCRWQCB). HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF THE STRUCTURES ON THE PROJECT

ALL TRENCH SPOILS SHALL BE REMOVED AS THEY ARE GENERATED OR DISPOSED OF ON SITE AS REQUIRED BY THE GRADING PERMIT. EXCESS/UNSUITABLE MATERIAL DISPOSED OF OFFSITE AT AN APPROVED LOCATION BY ENGINEERING DEVELOPMENT SERVICES. CONTAIN AND SECURELY PROTECT STOCKPILED TRENCH BACKFILL AND WASTE MATERIAL FROM WIND AND RAN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.

ALL UNDERGROUND IMPROVEMENTS INCLUDING SEWER LINES, WATER LINES, STORM DRAINS, PUBLIC UTILITY FACILITIES, AND SERVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED BY THE UTILITIES AND PUBLIC WORKS DEPARTMENTS PRIOR TO PAVING. TRENCH PAVING FOR ALL UTILITIES SHALL BE COORDINATED AND INSTALLED AT THE SAME TIME.

THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, AND THE CITY OF HAYWARD, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT

ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

REVISION DUE TO FIELD CONDITIONS.

THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES. AND TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.

UNDERGROUND FACILITIES NOT SHOWN ON THESE DRAWINGS SUCH AS PG&E. TELEPHONE, TV, IRRIGATION, ETC. SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.

CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS (CURB TAGS. IRON PIPES. CENTERLINE WELL DISKS, ETC). IF THE CONTRACTOR SUSPECTS THAT WORK WILL BE CONDUCTED IN AN AREA WHICH MAY RESULT IN THE DISTURBANCE OF SURVEY MONUMENTS, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A ICENSED PROFESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING TO LOCATE SAID MONUMENTS PRIOR TO DISTURBANCE, RE-ESTABLISH MONUMENTS WHICH HAVE BEEN DISTURBED AS A RESULT OF CONSTRUCTION AND FILE THE APPROPRIATE DOCUMENTATION WITH THE COUNTY ONCE THE MONUMENTS ARE RESET. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 (TEN) WORKING DAYS NOTICE TO THE ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. CONTRACTOR SHALL PROVIDE THE CITY WITH A MONUMENT CERTIFICATION LETTER FROM THE ENGINEER/SURVEYOR STATING THAT THE EXISTING MONUMENTS HAVE BEEN IDENTIFIED AND LOCATED PRIOR TO REMOVAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.). REPAIR MAY REQUIRE PATCHING. SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER. THE CITY MAY. AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.

AREAS USED BY IT IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY FIRE DEPARTMENT. ACCUMULATION OF TRASH. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH ON A DAILY BASIS. THE CONTRACTOR SHALL ALSO KEEP HAUL ROADS FREE PROJECT SHALL NOTIFY THE CITY OF FINDINGS. FROM DIRT, RUBBISH, AND UNNECESSARY OBSTRUCTIONS RESULTING FROM SITE OPERATION. DISPOSAL OF ALL TRASH, RUBBISH AND DEBRIS MATERIALS SHALL BE IN A COVERED WASTE RECEPTACLE OR HAULED OFF DEMOLITION PERMIT FROM THE CITY BUILDING DIVISION. SITE, IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL, AND IN CONFORMANCE WITH ALL ALL STREET TRENCHING REPAIR IN PUBLIC R/W REQUIRES USE OF A.C. APPLICABLE LAWS AND REGULATIONS. WASTE RECEPTACLES SHALL BE HOTMIX, UNDER DIRECTION OF CITY INSPECTOR AND IN ACCORDANCE WITH COVERED AT THE END OF EVERY DAY AND DURING RAIN EVENTS.

ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE PERFORMED BY CITY OF HAYWARD FORCES TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.

EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.

CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.

ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS AND FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN ACCEPTANCE. EVENT, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).

AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.

BEFORE ALL RAIN EVENTS. BMPS THAT REQUIRE MAINTENANCE OR OF MANHOLES AND CLEANOUTS. REPLACEMENT TO FUNCTION PROPERLY SHALL BE COMPLETED BEFORE THE SEDIMENT AND TRASH.

ADA COMPLIANCE: CONSTRUCTION CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

PERMANENT MONUMENTS AS SHOWN ON THE PLANS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE STANDARD PLANS AFTER COMPLETION OF THE STREET IMPROVEMENTS AND STAKED IN THE FIELD BY THE ENGINEER OR SURVEYOR.

ENGINEER/SURVEYOR SHALL COORDINATE WITH THE CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR, PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.

THE DEVELOPER ASSUMES ALL RESPONSIBILITY FOR THE APPROVAL OF ALL TIMES DURING CONSTRUCTION. THE EROSION AND SEDIMENT CONTROL MAILBOX LOCATIONS BY THE LOCAL BRANCH OF THE UNITED STATES POSTAL

IN THE EVENT THAT ANY REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED DURING PROJECT-RELATED ACTIVITIES, WORK IN THE IMMEDIATE VICINITY OF THE FINDS SHALL HALT AND THE AND THE CITY OF HAYWARD INSPECTOR. WORK SHALL NOT RESUME UNTIL A FOR THE CONSTRUCTION GENERAL PERMIT. QUALIFIED ARCHAEOLOGIST OR HISTORIC ARCHAEOLOGIST, AS SITUATION AND MADE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE, AND WHOSE RECOMMENDATIONS ARE CARRIED OUT. IF HUMAN BURIAL REMAINS ARE ENCOUNTERED, THE CONTRACTOR MUST ALSO CONTACT THE COUNTY CORONER.

SEWER AND/OR WATER CONNECTIONS TO EXISTING RESIDENCES REQUIRE A PLUMBING PERMIT FROM THE CITY BUILDING INSPECTION DIVISION BY TRASH OR MATERIALS DEPOSITED OR TRACKED ONTO THE PUBLIC

BUILDING PERMIT APPLICATION.

RESPONSIBLE FOR THE MISUSE OF, OR UNAUTHORIZED CHANGES MADE TO LOCAL CODES AND ORDINANCES. THESE DRAWINGS. OBTAIN WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS PRIOR TO MAKING CHANGES.

EARTHWORK QUANTITIES ARE APPROXIMATE AND HAVE BEEN SUMMARIZED ON THESE DRAWINGS TO PROVIDE THE REVIEWING AGENCY WITH AN OPINION OF HOW MUCH MATERIAL MAY BE MOVED TO FACILITATE THE PROPOSED AFTER CONSTRUCTION IS COMPLETED ALL STORM DRAIN SYSTEMS IMPACTED APPROXIMATELY X CY MAY BE IMPORTED/EXPORTED WITH THIS PROJECT, ACTUAL VOLUMES ARE VARIABLE BASED ON THE SOILS ENGINEER'S ASSESSMENT OF THE SOIL ENCOUNTERED, THE CONTRACTOR'S METHODS OF STRIPPING, COMPACTION AND TRENCHING.

OPINION OF PROBABLE EARTHWORK QUANTITIES

MATERIAL MOVED ON SITE	X CY
IMPORT	X CY
EXPORT	X CY

THE CONTRACTOR IS CAUTIONED NOT TO ORDER ITEMS OR INSTALL IMPROVEMENTS UNTIL CONFLICTS ARE RESOLVED. IMPROVEMENTS INSTALLED OR ORDERED PRIOR TO CONFLICT RESOLUTION SHALL BE DONE A FIELD SURVEY CONDUCTED BY BKF ENGINEERS ON APRIL 27, 2016 AND SOLELY AT THE CONTRACTOR'S RISK AND AT NO EXPENSE TO THE OWNER, JULY 13, 2017. THE DESIGN PROFESSIONAL, OR THE CITY OF HAYWARD

<u>GRADING NOTES</u>

NO GRADING, CLEARING OR GRUBBING SHALL BE PERFORMED PRIOR TO ISSUANCE OF A GRADING PERMIT BY THE CITY OF HAYWARD. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF

CONSTRUCTION.

EXCESS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE TO DRIVEWAY SERVING 1410 WEST WINTON AVENUE, LOCATION SHOWN HEREON. AN AREA APPROVED BY THE CITY BUILDING DIVISION AND CITY FIRE ELEVATION 38.71'. DEPARTMENT. APPROVALS MUST BE IN WRITING PRIOR TO REMOVAL OF

MATERIAL DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.

THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.

HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF ANY STRUCTURES ON THE PROJECT SITE. PRIOR TO ANY GRADING OPERATION, THE CONTRACTOR SHALL INSTALL

PROTECTIVE FENCING AROUND THE DRIP LINE OF TREES TO BE SAVED IN

COMPLIANCE WITH THE CITY TREE ORDINANCE. THE CUTTING, FILLING,

PAVING OR TRENCHING WITHIN ROOT ZONES OF TREES TO BE SAVED MUST

BE REVIEWED AND APPROVED BY A CITY APPROVED ARBORIST AND PERFORMED UNDER THEIR OWN SITE SUPERVISION. DRIP-LINES OF TREES OVERHANGING THE PROPERTY LINE SHALL BE AFFORDED THE SAME LEVEL OF PROTECTION AS TREES ON SITE THAT ARE

DEVELOPMENT MUST CONFORM TO 40 CFR (CODE OF FEDERAL REGULATIONS) PARTS 122. 123 AND 124 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT APPLICATIONS FOR STORM WATER DISCHARGE. PROJECT MUST ALSO CONFORM WITH ANY DESIGN AND CONSTRUCTION POLICIES ADOPTED BY THE CITY TO CONFORM WITH THESE REGULATIONS.

UNDER 40 CFR, CONSTRUCTION ACTIVITY INCLUDES CLEARING, GRADING AND EXCAVATION ACTIVITIES. THESE ACTIVITIES REQUIRE OBTAINING AN NPDES PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD FOR PROJECTS WHICH QUALIFY, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

THE CONTRACTOR SHALL KEEP THE WORK SITE, STAGING AREAS AND OTHER BLASTING (IF REQUIRED) REQUIRES A PERMIT FROM THE CITY OF HAYWARD

RUBBISH AND WASTE MATERIALS OF ANY KIND GENERATED BY THE PRIOR TO ANY GRADING OPERATION, THE GRADING CONTRACTOR SHALL CONTRACTOR, SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR JOINTLY SEARCH THE SITE FOR EXISTING WELLS AND SEPTIC SYSTEMS.

REMOVAL OF ANY PERMANENT STRUCTURE 10' X 12' OR LARGER REQUIRES A

CITY OF HAYWARD STANDARDS.

DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES IMPROVEMENTS RELATED TO THE WATER SERVICE REPLACEMENT FROM THE MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO WATER METER TO THE CONNECTION AT THE MUNICIPAL WATER MAIN TO BE

> THE USE OF CONTROLLED DENSITY BACKFILL (CDF) WITHIN ANY PUBLIC SEWER OR WATER TRENCH IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF UTILITIES, MR. ALEX AMERI, PHONE NO: (510)

> THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY OF HAYWARD WATER SYSTEM INCLUDING CONNECTIONS BYPASSING THE METER FOR FESTING ONSITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. SUCH CONNECTIONS SHALL BE SEVERED BY THE UTILITY DEPARTMENT AND WILL RESULT IN PENALTIES, INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.

CONTRACTOR SHALL CONTACT CITY OF HAYWARD PUBLIC WORKS DEPARTMENT STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY FOR FINAL INSPECTION OF ALL SEWER MAINS AND LATERALS, ALL SEWER CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS MAINS AND LATERALS MUST BE CLEANED & MANDRELED PRIOR TO CITY

THE CONTRACTOR SHALL HIRE AN INDEPENDENT TELEVISION INSPECTION SERVICE TO PERFORM A CLOSED-CIRCUIT TELEVISION INSPECTION OF ALL NEWLY CONSTRUCTED SEWERS INCLUDING LATERALS FROM THE MAIN TO THE PLACE EQUIPMENT OR VEHICLES, WHICH ARE BEING FUELED, MAINTAINED CLEAN-OUT. THE TELEVISING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF HAYWARD CONSTRUCTION STANDARD SPECIFICATIONS.

AT A MINIMUM, ALL BMPS WILL BE INSPECTED EACH WORKING DAY AND ALL SEWER PIPE LENGTHS SHOWN ARE MEASURED HORIZONTALLY TO CENTER

NEXT FORECASTED RAIN, OR WITHIN THE NEXT 3 WORKING DAYS IF NO UTILITY CONFLICTS MAY OCCUR IN THOSE INSTANCES WHERE TWO GRAVITY RAIN IS PREDICTED. MAINTENANCE INCLUDES REMOVAL OF ACCUMULATED UTILITIES CROSS AND LACK THE REQUIRED SEPARATION. OR IN THOSE INSTANCES WHERE AN EXISTING UTILITY HAS NOT BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.

> REPORT UTILITY CONFLICTS TO THE OWNER'S REPRESENTATIVE IN WRITING AS THEY ARE ENCOUNTERED SO THAT THE OWNER AND OWNER'S REPRESENTATIVE CAN MAKE A DECISION AS TO HOW THE CONTRACTOR SHOULD PROCEED WITH THE WORK.

> CROSSING UTILITIES WHICH HAVE BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS MAY NOT BE CONSTRUED AS UTILITY CONFLICTS. INSTALL GRAVITY UTILITIES TO THE LINES AND ELEVATIONS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS. INSTALL OTHER UTILITIES ABOVE OR BELOW GRAVITY UTILITIES WHILE COMPLYING WITH THE MINIMUM COVER REQUIREMENTS FOR EACH UTILITY INSTALLED.

EROSION CONTROL NOTES

ALL PROJECTS SHALL HAVE A CITY APPROVED EROSION AND SEDIMENT CONTROL PLAN OR A SWRCB STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SPECIFIC FOR THE PROJECT. A COPY SHALL BE KEPT ON SITE AT PLAN OR SWPPP SHALL BE UPDATED AND KEPT CURRENT AS WORK PROGRESSES AND CONDITIONS CHANGE AND SHALL BE MADE AVAILABLE TO CITY AND SWRCB INSPECTORS WHEN REQUESTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT, INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN UNTIL SUCH TIME THAT THE PROJECT IS CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT SUPERINTENDENT ACCEPTED AS COMPLETE OR UNTIL THE NOTICE OF TERMINATION IS FILED

APPROPRIATE, APPROVED BY THE CITY OF HAYWARD, HAS EVALUATED THE THE EROSION AND SEDIMENT CONTROL PLAN SHALL EMPHASIZE SOURCE CONTROL AND ADDRESS CONTROLLING WATER AND WIND EROSION, SEDIMENTATION, TRASH AND OTHER POSSIBLE POLLUTANTS USING BEST MANAGEMENT PRACTICES (BMPS). THE PLAN SHALL REFERENCE CASQA "STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK FOR CONSTRUCTION" FOR PROPER BMP SELECTION, INSTALLATION AND MAINTENANCE.

RIGHT-OF-WAY SHALL BE REMOVED DAILY.

ANY ONSITE DRAINAGE SYSTEMS PROPOSED FOR CUSTOM LOTS SHALL BE THE EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE A STATEMENT SHOWN ON THE SITE PLAN SUBMITTED FOR REVIEW WITH THE LOTS DESCRIBING THE LOCATION OF BMPS AND RATIONALE FOR BMP SELECTION, AS WELL AS A STATEMENT CONFIRMING THAT THE OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPS MUST BE INSTALLED, MONITORED AND THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS IS NOT MAINTAINED TO ENSURE THEIR EFFECTIVENESS AND MEET COMPLIANCE WITH

> FAILURE TO IMPLEMENT OR MAINTAIN BMPS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE CONSIDERED A POTENTIAL NON-STORM WATER DISCHARGE AND A VIOLATION OF CITY OF HAYWARD ORDINANCE.

IMPROVEMENTS. WHILE THE DESIGN PROFESSIONAL ANTICIPATES THAT BY THIS PROJECT SHALL BE CLEANED OF ACCUMULATED SEDIMENT AND DEBRIS AND INSPECTED. STORM DRAIN CLEANING/FLUSHING WATER SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM

HYDROSEED SHALL BE EITHER APPLIED MECHANICALLY OR BY

HYDROSEEDING. HYDROSEEDING REQUIRES THE APPLICATION OF FIBER AND STABILIZING EMULSION. MECHANICAL APPLICATION SHALL REQUIRE ROLLING, TAMPING, OR OTHERWISE WORKING THE SEED APPROXIMATELY 0.5 INCHES INTO THE TOPSOIL.

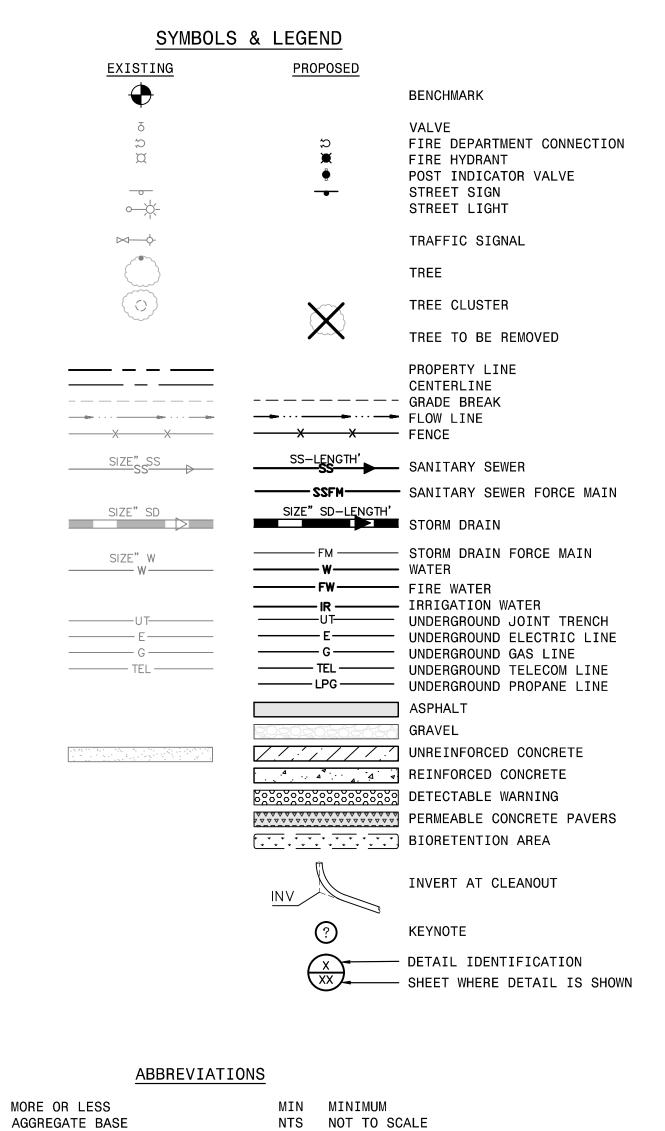
STABILIZATION OF EXPOSED GRADED AREAS WITH STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE.

TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM AN AERIAL SURVEY CONDUCTED BY GEOTERRA ON APRIL 4, 2016 AND SUPPLEMENTED BY

TREE TRUNK DIAMETERS ARE APPROXIMATE AND WERE MEASURED AT CHEST HEIGHT (48" +). CONSULT A CERTIFIED TREE ARBORIST WHEN IT IS NECESSARY TO ACCURATELY DETERMINE PERTINENT TREE INFORMATION.

OF BEARING: VERTICAL DATUM NAVD 88 BASED ON GPS

ENCHMARK: MAGNETIC NAIL SET IN ASPHALT CONCRETE ALONG THE SOUTH SIDE OF WEST WINTON AVENUE. APPROXIMATELY 18 FEET WEST OF THE



OH OVERHEAD UTILITY LINE APN ASSESSOR'S PARCEL NUMBER PCC PORTLAND CEMENT CONCRETE PG&E PACIFIC GAS & ELECTRIC PIV POST INDICATOR VALVE S= SLOPE SD STORM DRAIN SDMH STORM DRAIN MANHOLE SDJB STORM DRAIN JUNCTION BOX SF SQUARE FEET SS SANITARY SEWER SSCO SANITARY SEWER CLEAN OUT SSFM SANITARY SEWER FORCE MAIN SSMH SANITARY SEWER MANHOLE TB TOP OF BOX TOP FACE OF CURB TELECOMMUNICATION LINE FIRE DEPARTMENT CONNECTION TF TRANSFORMER TOP OF GRATE TYP TYPICAL UB UTILITY BOX UNDERGROUND UTILITY TRENCH WATER WM WATER METER

ASPHALT CONCRETE

BLDG BUILDING

CL2 CLASS II

CONC CONCRETE

BENCHMARK

CLEAN OUT

DRIVEWAY

ELECTRIC

EXISTING

ELEV ELEVATION

CUBIC YARD

DOCUMENT NUMBER

EXISTING GROUND

EDGE OF PAVEMENT

FINISHED FLOOR

FINISHED GRADE

SURFACE FLOWLINE

BOTTOM INSIDE OF PIPE

FIRE HYDRANT

FORCE MAIN

FIRE WATER

GRADE BREAK

GRATE INLET

IRRIGATION

MAXIMUM

CATCH BASIN

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ENGINEERS . SURVEYORS . PLANNERS

HAYWARD FIRE

STATION #6 & FIRE

TRAINING CENTER

1401 W. WINTON AVE.HAYWARD, CA

REVISIONS No. Description

PLANNING SPR

PROJECT INFORMATION

Drawn By: JP Checked By: BCJ

FEBRUARY 1. 2018

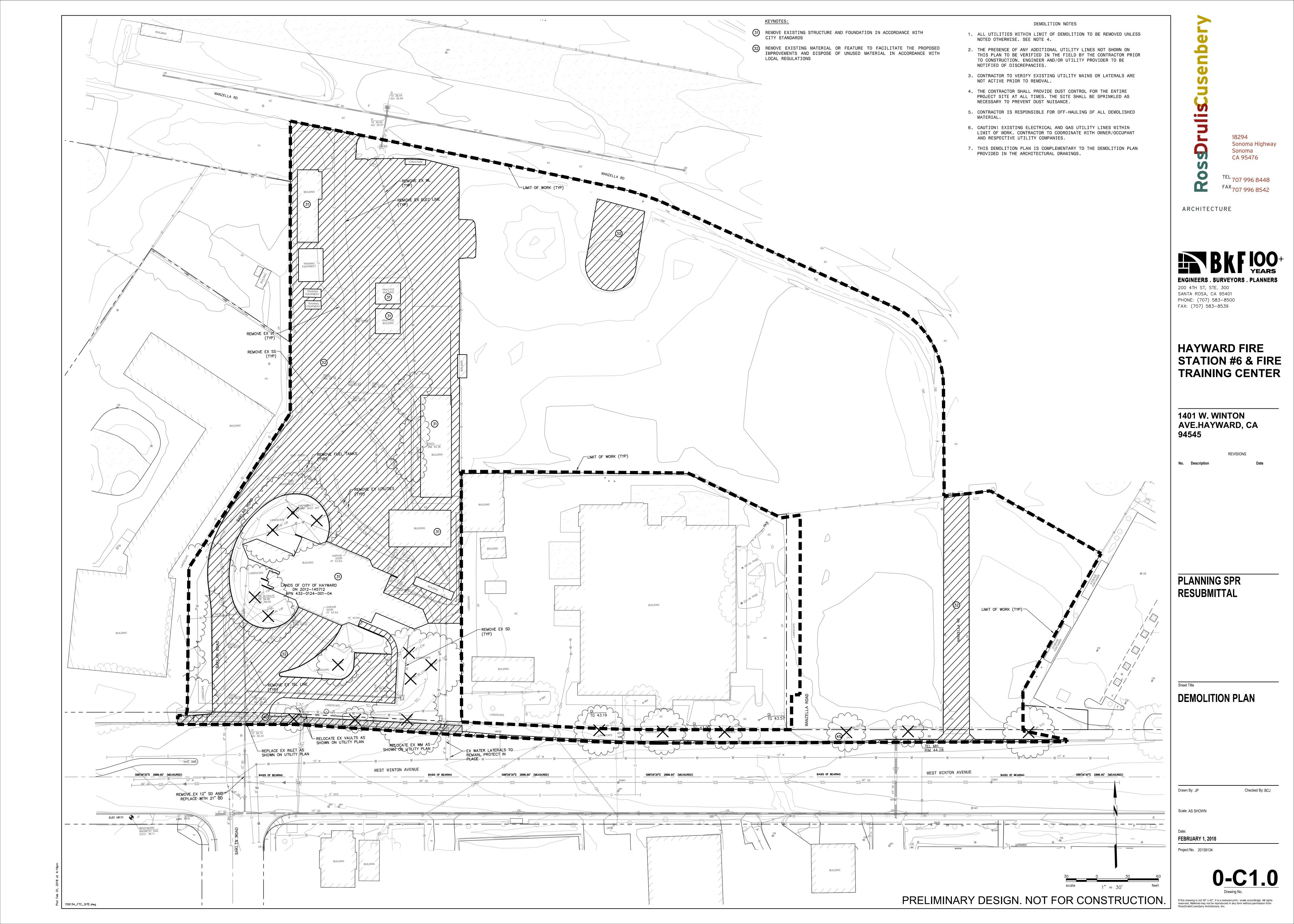
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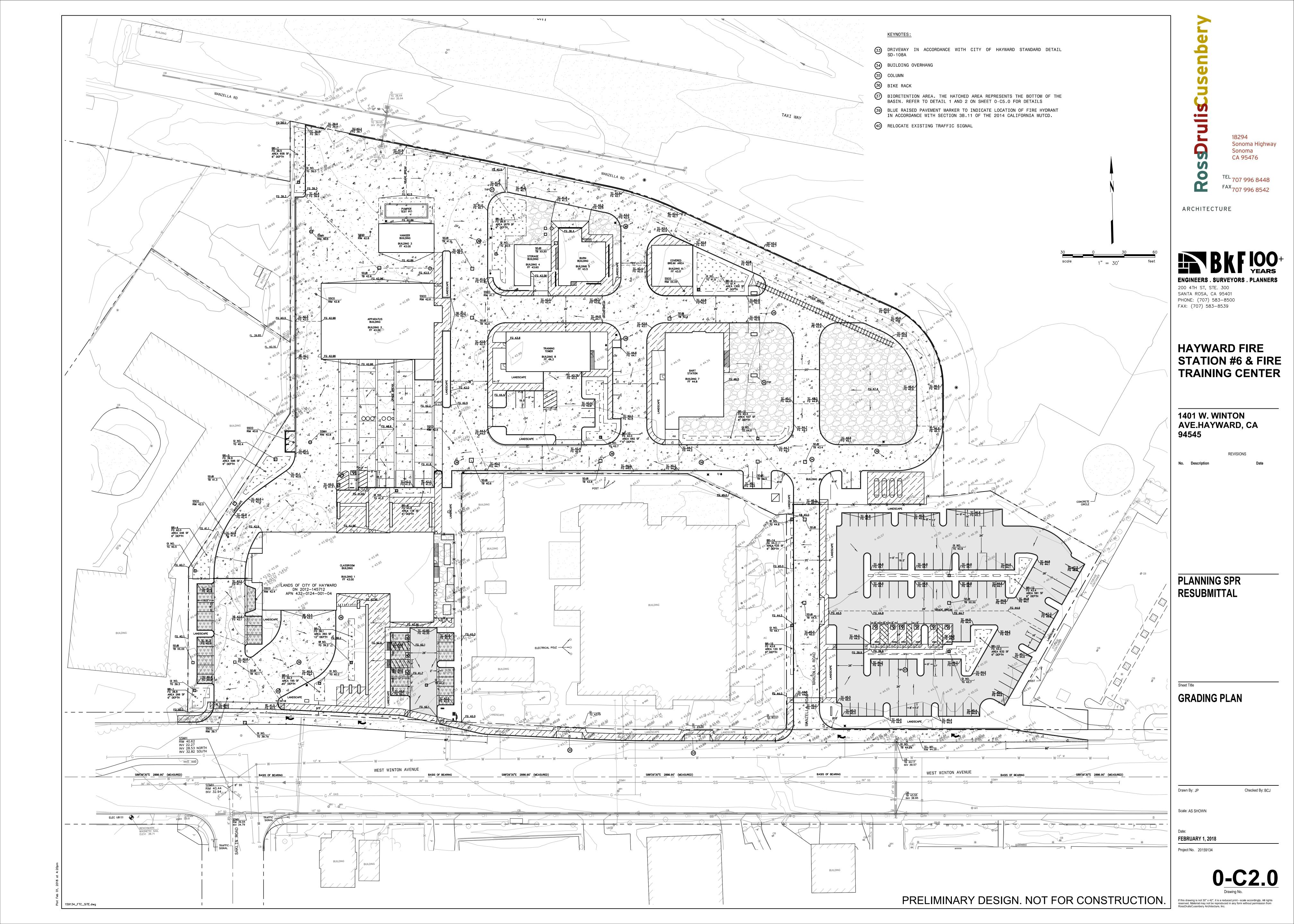
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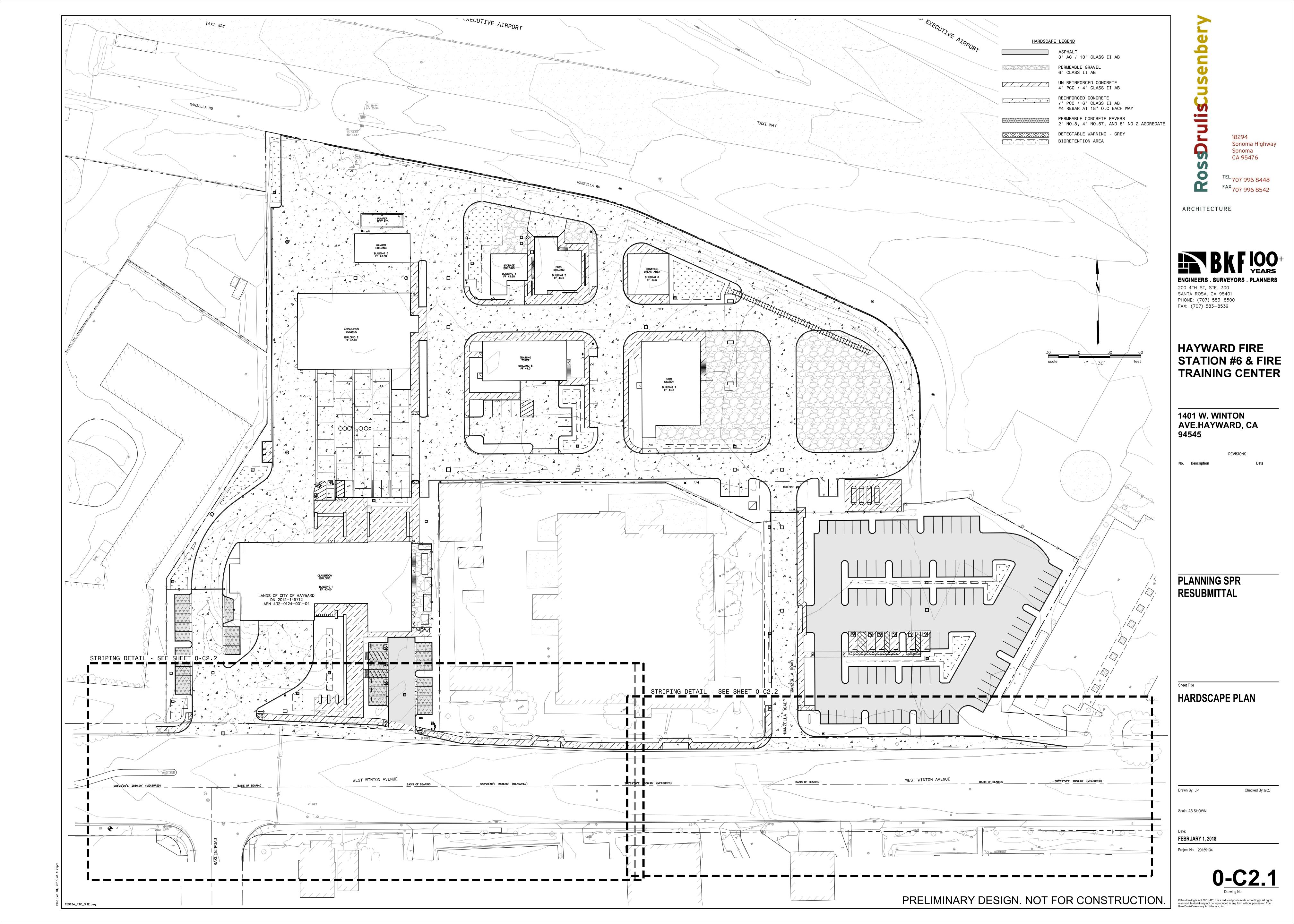
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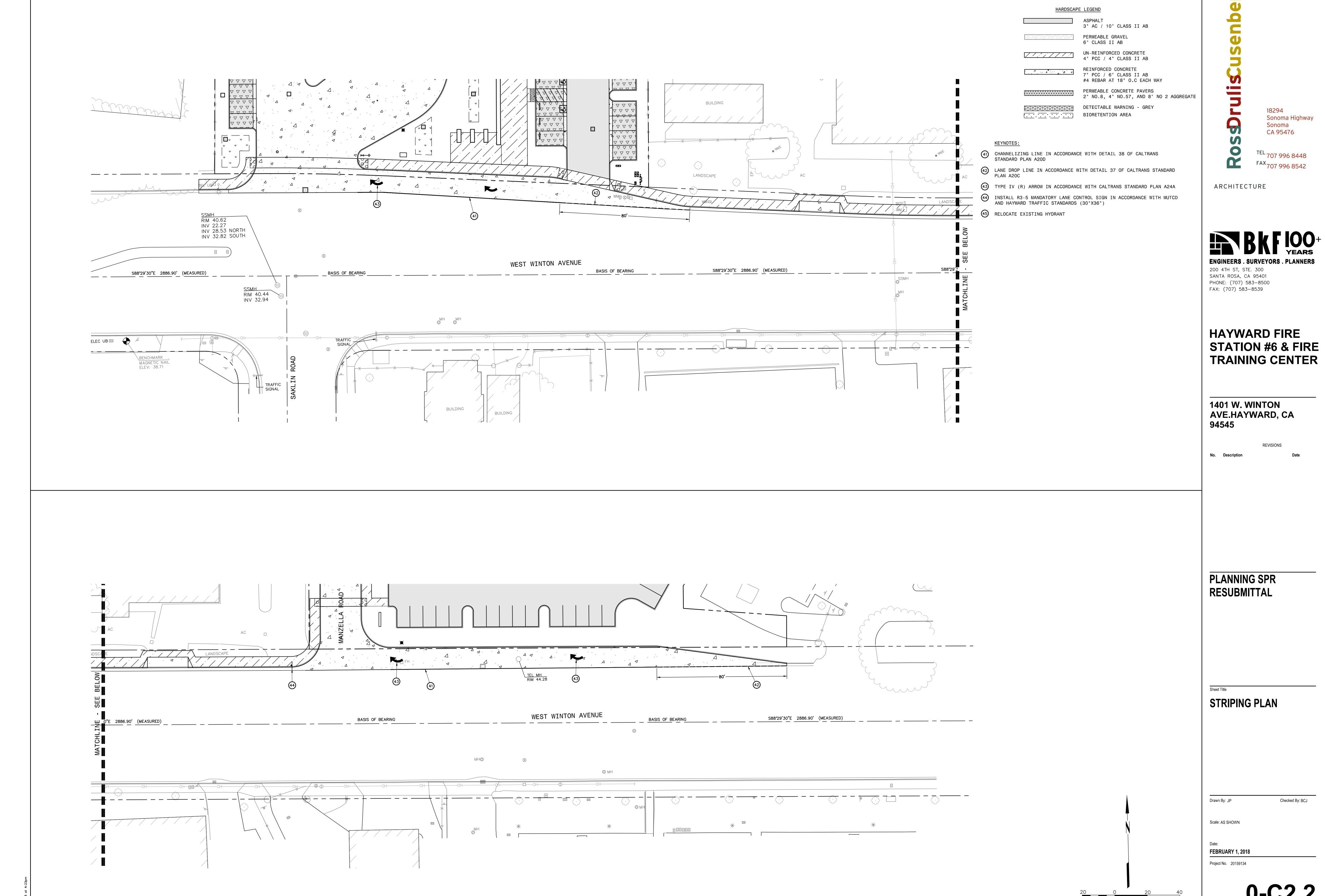
PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

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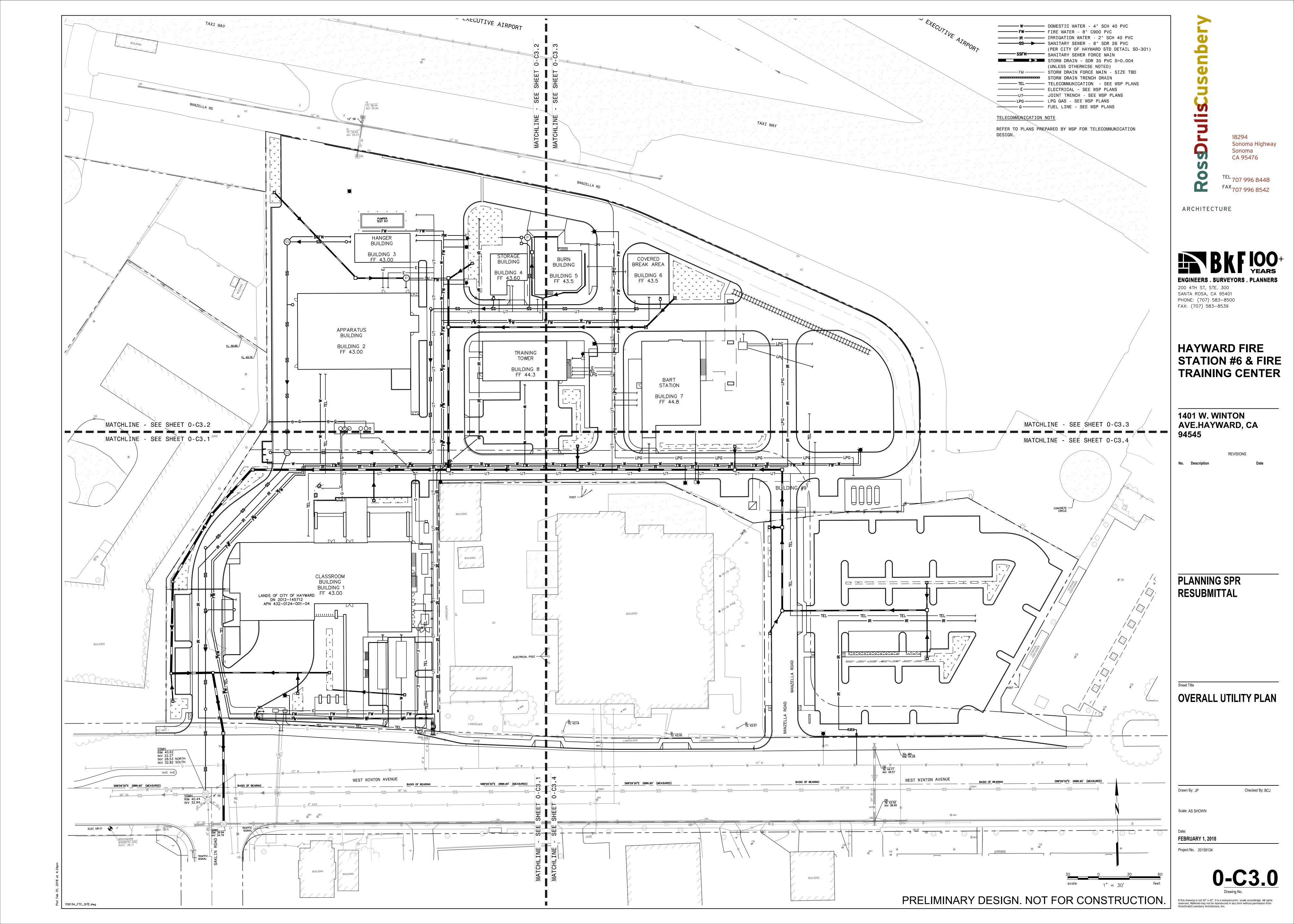


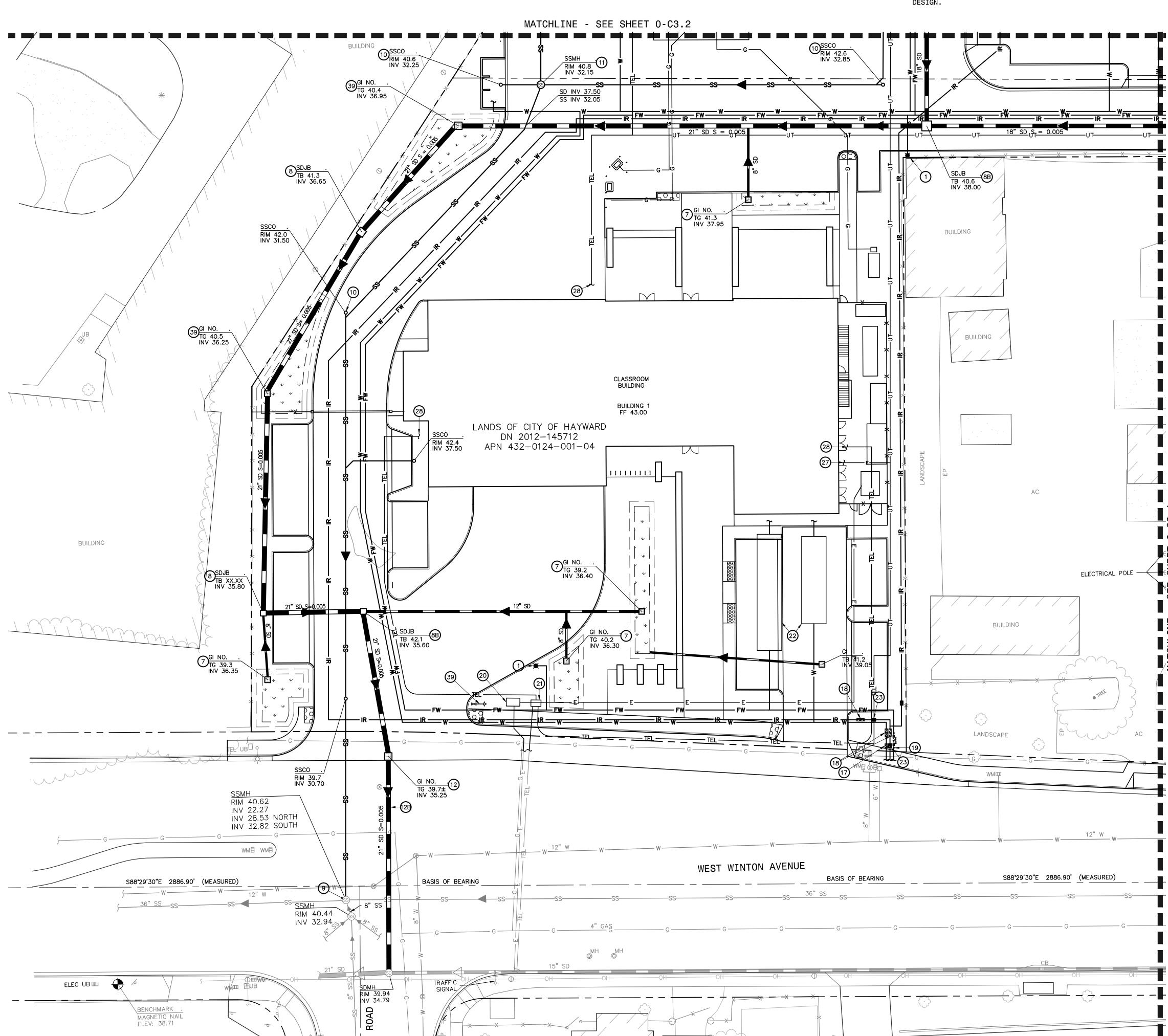






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KEVNOTE

- DOUBLE STEAMER FIRE HYDRANT WITH (2) 4-1/2" OUTLETS AND 1 (2-1/2" OUTLET. INSTALL BLUE REFLECTIVE DOT MARKER IN ROADWAY.
- 2 FIRE DEPARTMENT CONNECTION (FDC) / PIV CONNECTIONS
- (3) ENCLOSED PROPANE TANKS ON CONCRETE PAD
- diesel fuel station on concrete pad
- TRENCH DRAIN- ACO KLASSIK WITH 1/4" GRATE
- 6 STORM DRAIN SOLIDS HANDLING PUMP STATION
- 18"X18" CONCRETE STORMWATER OVERFLOW INLET IN BIORETENTION AREA
- 8 24"X24" CONCRETE STORMWATER JUNCTION BOX
- 8B 36"x36" CONCRETE STORMWATER JUNCTION BOX
- TIE NEW SITE WASTEWATER LATERAL INTO CITY OF HAYWARD MUNICIPAL SEWER SYSTEM AT MANHOLE
- SANITARY SEWER CLEANOUT PER CITY OF HAYWARD SD-313
- SANITARY SEWER MANHOLE PER CITY OF HAYWARD SD-304 & SD-307
- REPLACE INLET WITH CITY OF HAYWARD STANDARD TYPE "E" STORM WATER INLET, SD-405,
- REPLACE EXISTING 12" OUTLET PIPE TO CITY OF HAYWARD MUNICIPAL STORM DRAIN SYSTEM WITH A NEW 21" PIPE.
- 18"X18" CONCRETE JUNCTION BOX. DURING RAIN EVENTS, STORMWATER WILL BE DIRECTED INTO STORM DRAIN SYSTEM. DURING NON-RAIN EVENTS, BURN BUILDING RUNOFF IS DIRECTED INTO SANITARY SEWER.
- 14 VINVALVE AUTOMATIC DIVERSION VALVE
- 15) STORM DRAIN AREA DRAIN
- 0UTFALL TO BIORETENTION AREA WHEN AUTOMATIC DIVERSION VALVE SENDS WATER TO STORM DRAIN SYSTEM
- RELOCATED WATER METERS. TIE INTO EXISTING LATERAL CONNECTED TO CITY MUNICIPAL WATER SYSTEM
- (B) REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY PER CITY OF HAYWARD SD-202
- DOUBLE CHECK DETECTOR ASSEMBLY PER CITY OF HAYWARD SD-201 & SD-204
- RELOCATE EXISTING ELECTRICAL VAULT (TO BE COORDINATED WITH
- 21) RELOCATE EXISTING TELECOM VAULT AND CONNECT SITE TELECOM TO VAULT (TO BE COORDINATED WITH UTILITY PROVIDER).
- TANK OFF WOR PLAND
- 22 UNDERGROUND STORAGE TANK SEE WSP PLANS
- NEW IRRIGATION WATER METER / SUBMETER
- (24) NEW WATER CONNECTION TO EXISTING MAIN
- DOUBLE STEAMER FIRE HYDRANT WITH (2) 4-1/2" OUTLETS AND 1 (2-1/2" OUTLET AND WITH ELECTRONIC VALVING CONTROL
- 26 CONTROL ROOM SEE WSP PLANS
- 27 ELECTRICAL POINT OF CONNECTION SEE WSP PLANS
- TELECOMMUNICATION POINT OF CONNECTION SEE WSP PLANS
- 29 LPG POINT OF CONNECTION SEE WSP PLANS
- TRANSFORMER SEE WSP PLANS
- (38) 24" X 24" STORMWATER OVERFLOW INLET IN BIORETENTION AREA

ruliscusenbe

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HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE.HAYWARD, CA 94545

No. Description Da

PLANNING SPR RESUBMITTAL

Sheet Title

UTILITY PLAN

Drawn By: JP Checked By: BCJ

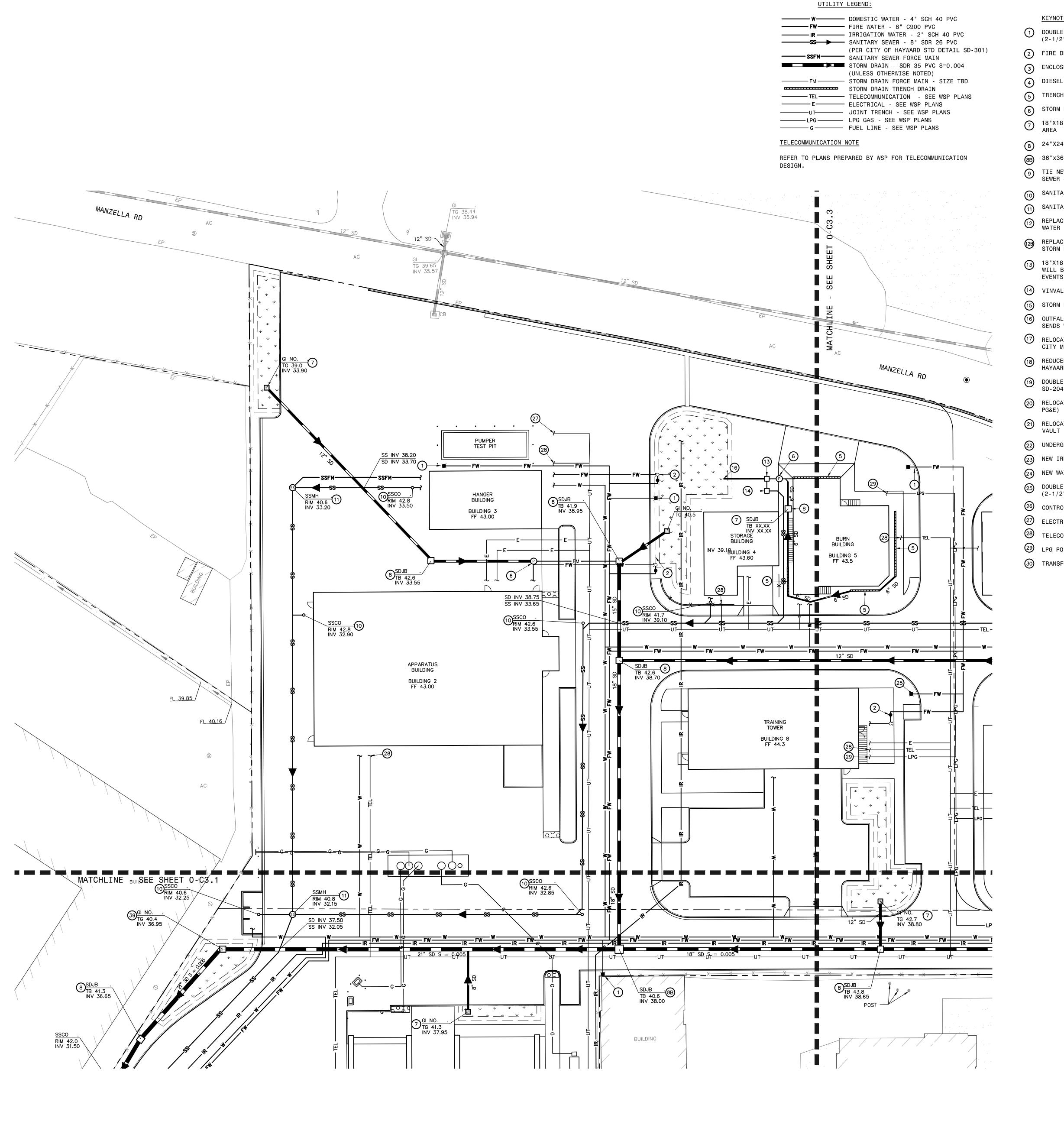
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REVISIONS

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UTILITY PLAN

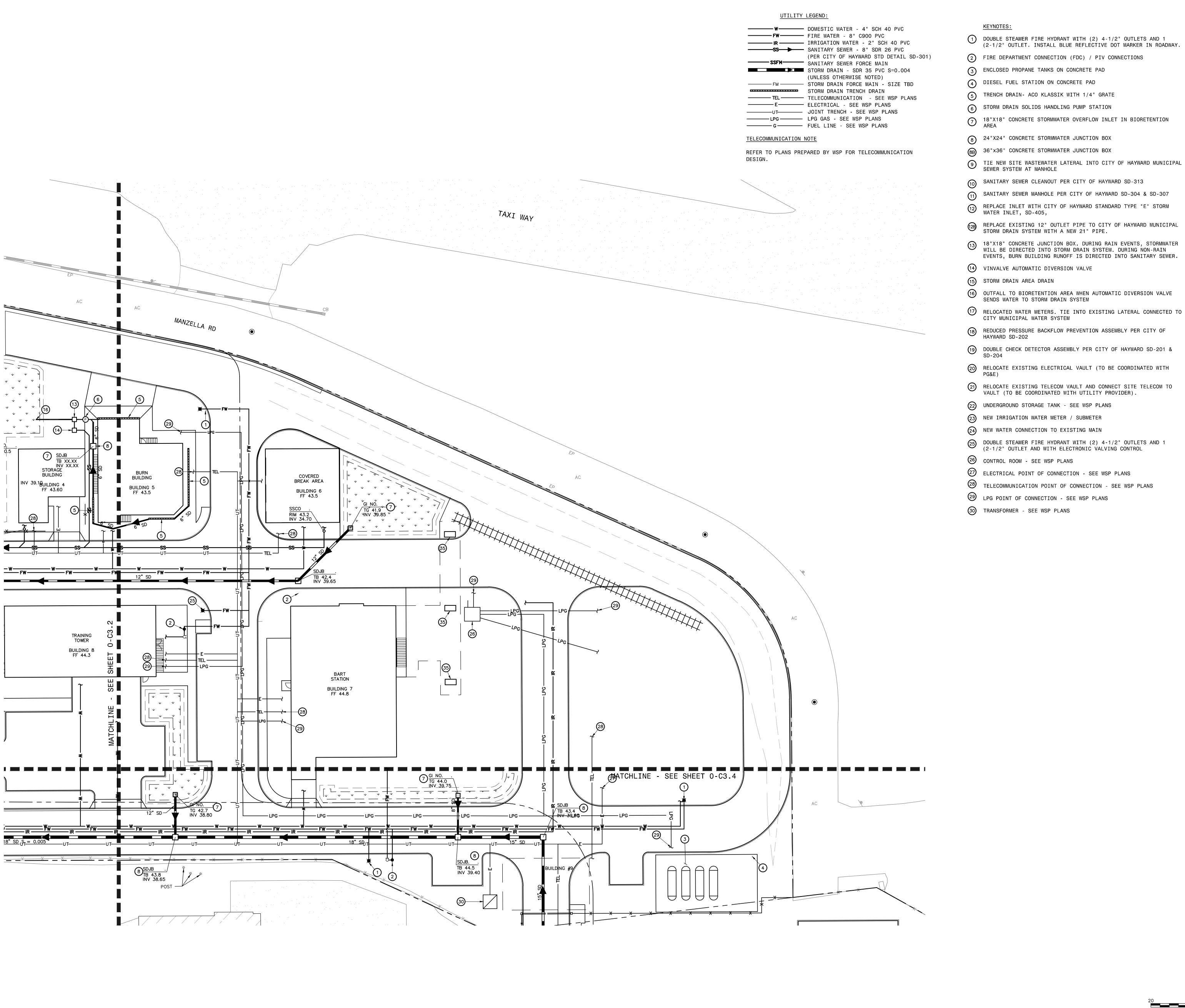
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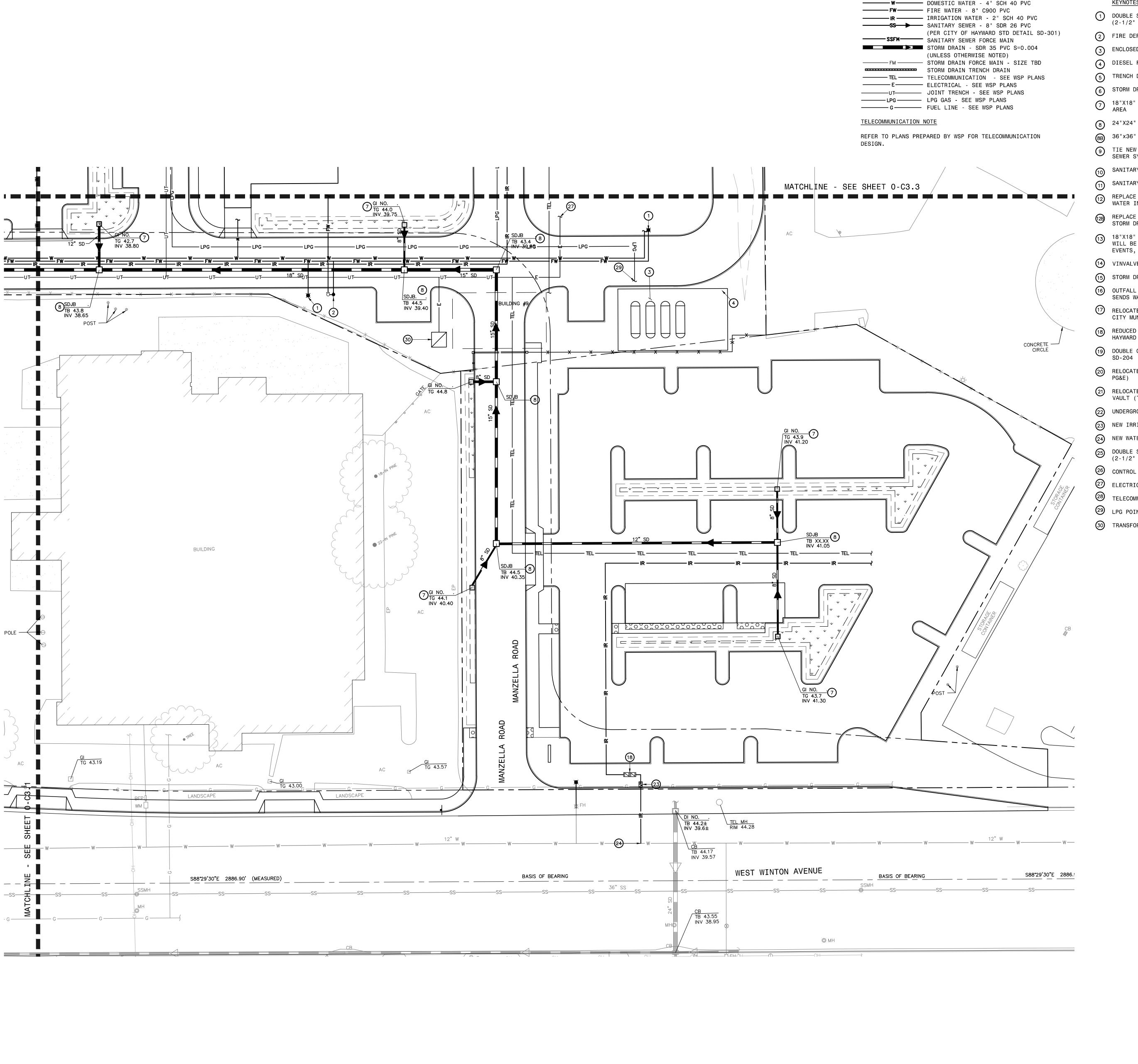
UTILITY PLAN

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KEYNOTES:

UTILITY LEGEND:

- DOUBLE STEAMER FIRE HYDRANT WITH (2) 4-1/2" OUTLETS AND 1 (2-1/2" OUTLET. INSTALL BLUE REFLECTIVE DOT MARKER IN ROADWAY.
- 2 FIRE DEPARTMENT CONNECTION (FDC) / PIV CONNECTIONS
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- 23 NEW IRRIGATION WATER METER / SUBMETER
- (24) NEW WATER CONNECTION TO EXISTING MAIN
- DOUBLE STEAMER FIRE HYDRANT WITH (2) 4-1/2" OUTLETS AND 1 (2-1/2" OUTLET AND WITH ELECTRONIC VALVING CONTROL
- 26 CONTROL ROOM SEE WSP PLANS
- 27 ELECTRICAL POINT OF CONNECTION SEE WSP PLANS
- 28 TELECOMMUNICATION POINT OF CONNECTION SEE WSP PLANS
- 29 LPG POINT OF CONNECTION SEE WSP PLANS
- (30) TRANSFORMER SEE WSP PLANS

Sonoma Highway Sonoma

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HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

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REVISIONS

PLANNING SPR RESUBMITTAL

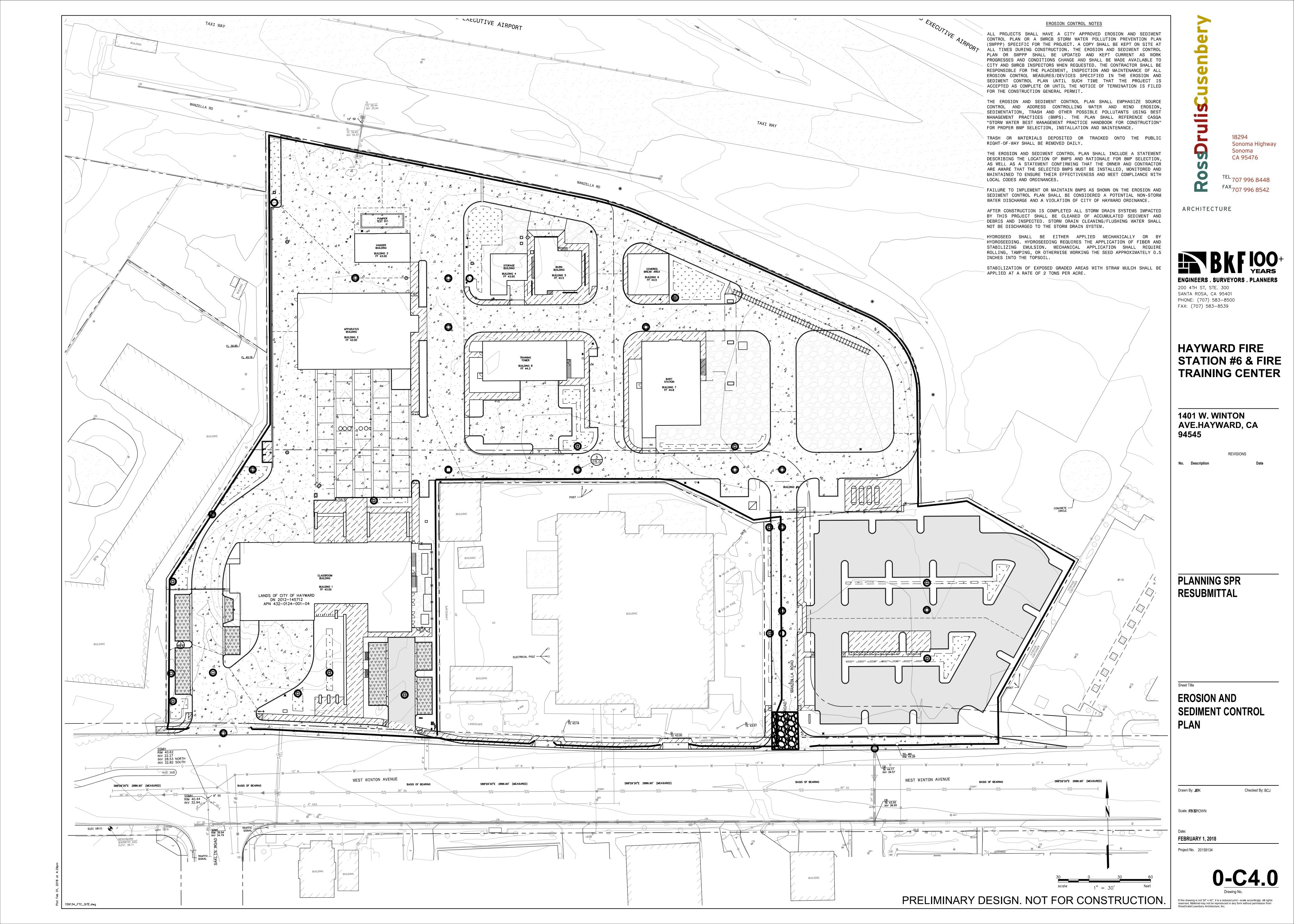
UTILITY PLAN

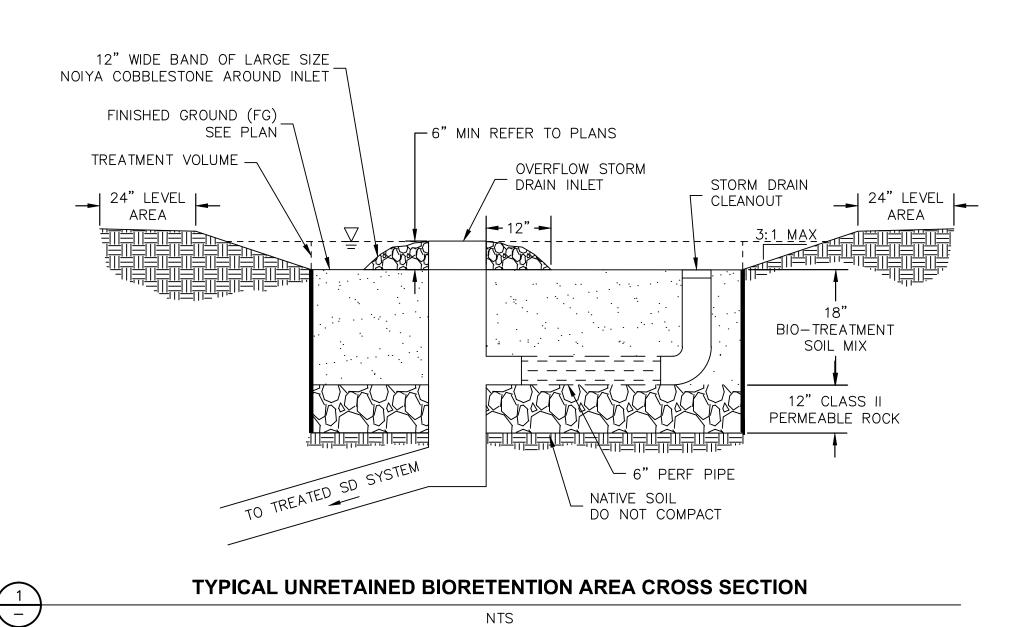
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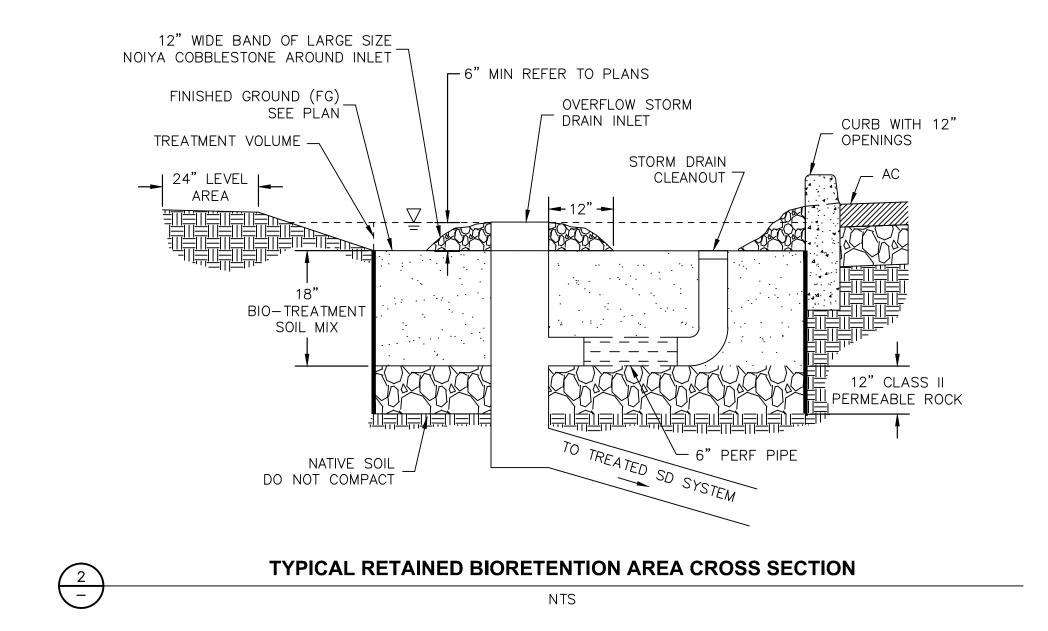
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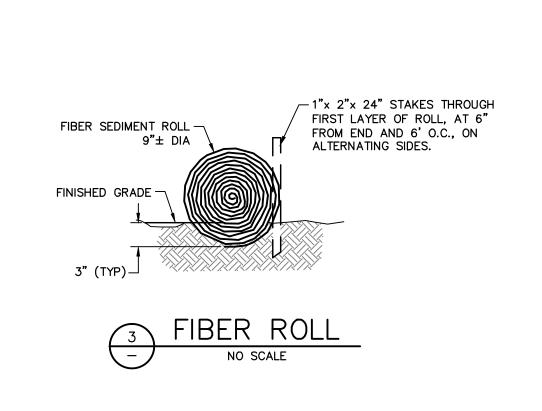
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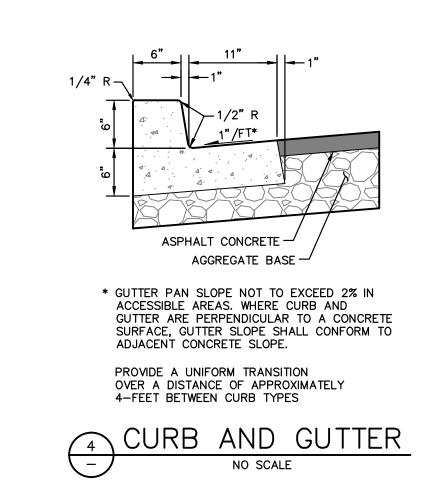
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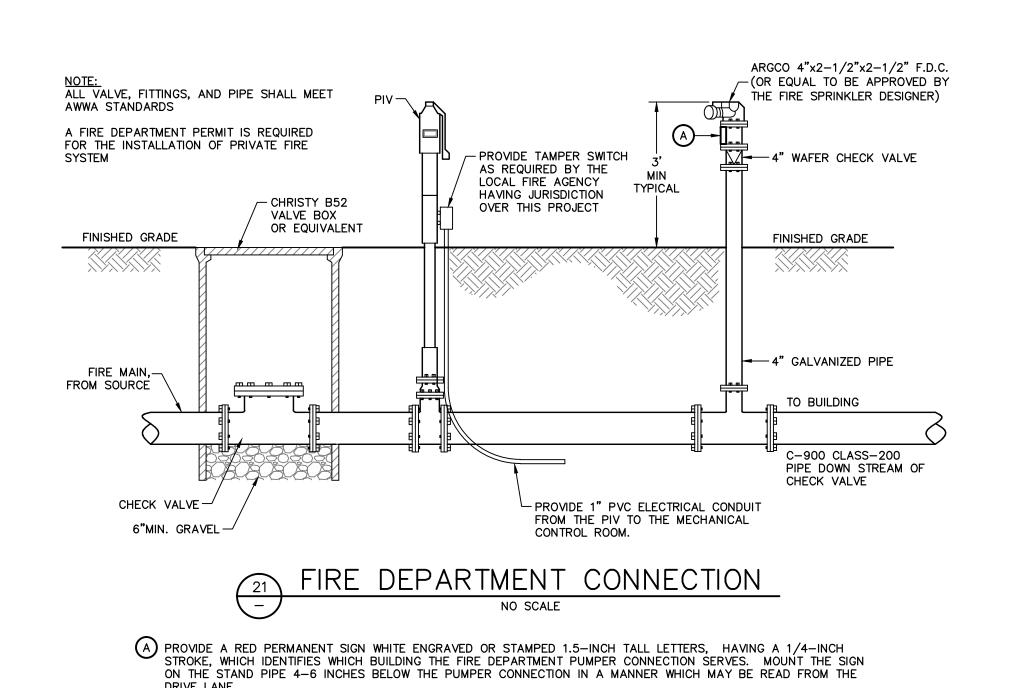












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Sheet Title

CONSTRUCTION DETAILS

Drawn By: JP

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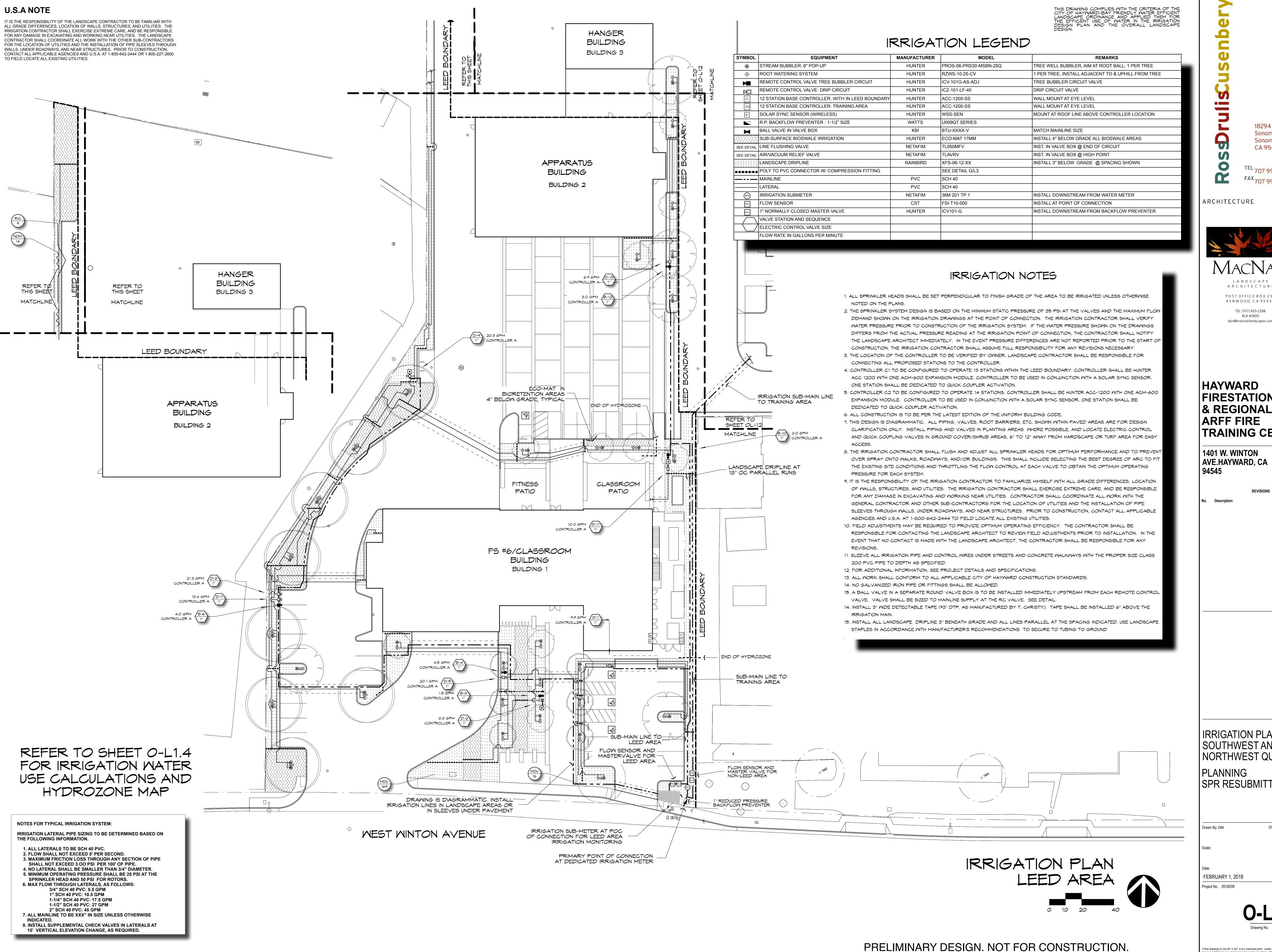
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AVE.HAYWARD, CA

IRRIGATION PLAN SOUTHWEST AND NORTHWEST QUADRANT

SPR RESUBMITTAL

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REVISI

Date

IRRIGATION PLAN
NORTHEAST QUADRANT
PLANNING
SPR RESUBMITTAL

Drawn By: DM Checked By:

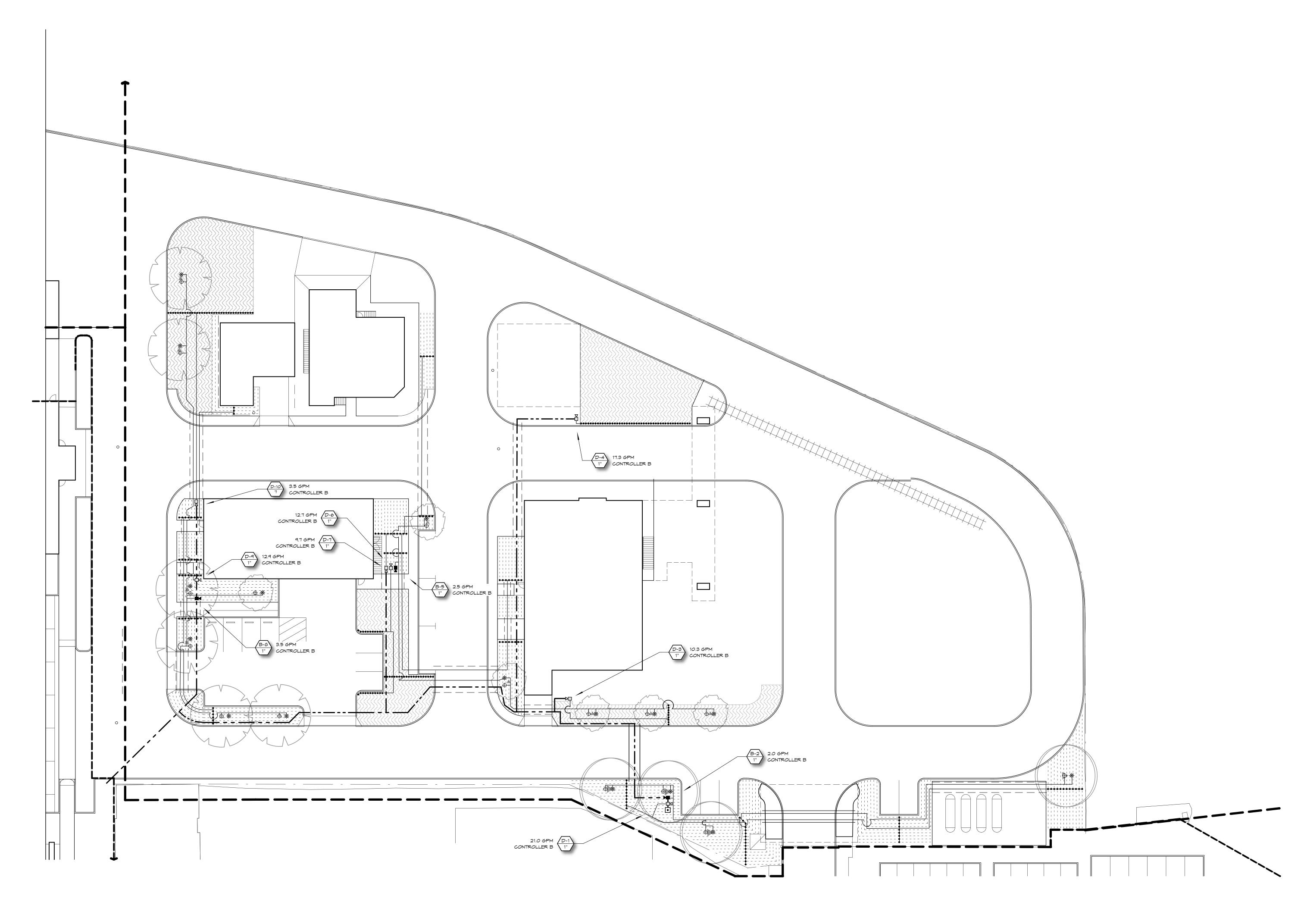
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Project No. 2016039

O-L1.2

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NOTES FOR TYPICAL IRRIGATION SYSTEM:

IRRIGATION LATERAL PIPE SIZING TO BE DETERMINED BASED ON THE FOLLOWING INFORMATION.

 ALL LATERALS TO BE SCH 40 PVC.
 FLOW SHALL NOT EXCEED 5' PER SECOND.
 MAXIMUM FRICTION LOSS THROUGH ANY SECTION OF PIPE SHALL NOT EXCEED 3.00 PSI PER 100' OF PIPE.

4. NO LATERAL SHALL BE SMALLER THAN 3/4" DIAMETER.
5. MINIMUM OPERATING PRESSURE SHALL BE 25 PSI AT THE SPRINKLER HEAD AND 50 PSI FOR ROTORS.
6. MAX FLOW THROUGH LATERALS, AS FOLLOWS:
3/4" SCH 40 PVC: 5.5 GPM

8. INSTALL SUPPLEMENTAL CHECK VALVES IN LATERALS AT 15' VERTICAL ELEVATION CHANGE, AS REQUIRED.

1" SCH 40 PVC: 10.5 GPM
1-1/4" SCH 40 PVC: 17.5 GPM
1-1/2" SCH 40 PVC: 27 GPM
2" SCH 40 PVC: 45 GPM
7. ALL MAINLINE TO BE XXX" IN SIZE UNLESS OTHERWISE INDICATED.

REFER TO SHEET O-L1.4
FOR IRRIGATION WATER
USE CALCULATIONS AND
HYDROZONE MAP

REFER TO SHEET O-L1.1 FOR IRRIGATION LEGEND AND IRRIGATION NOTES. IRRIGATION PLAN
TRAINING AREA

0 10 20 40

INSTALLATION OF PIPE SLEEVES THROUGH WALLS. UNDER ROADWAYS. AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE

EXISTING UTILITIES.

AGENCIES AND U.S.A. AT 1-800-642-2444 OR 1-800-227-2600 TO FIELD LOCATE ALL

COTROLLER 3 LOCATION ----

BUILDING #9

ARCHITECTURE

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ARCHITECTURE

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IRRIGATION PLAN SOUTHEAST QUADRANT PLANNING SPR RESUBMITTAL

Drawn By: DM Checked By:

FEBRUARY 1, 2018 Project No. 2016039

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IRRIGATION NOTES

- 1. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE
- 2. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM STATIC PRESSURE OF 35 PSI AT THE VALVES AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT THE POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION OF THE IRRIGATION SYSTEM. IF THE WATER PRESSURE SHOWN ON THE DRAWINGS DIFFERS FROM THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 3. THE LOCATION OF THE CONTROLLER TO BE VERIFIED BY OWNER. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL PROPOSED STATIONS TO THE CONTROLLER.
- 5. CONTROLLER C3 TO BE CONFIGURED TO OPERATE 10 STATIONS. CONTROLLER SHALL BE HUNTER ACC-1200. CONTROLLER TO BE USED IN CONJUNCTION WITH A SOLAR SYNC SENSOR. ONE STATION SHALL BE DEDICATED TO QUICK COUPLER ACTIVATION. INSTALL IN CONTROLLER
- 6. ALL CONSTRUCTION IS TO BE PER THE LATEST EDITION OF THE UNIFORM BUILDING CODE.
- 7. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ROOT BARRIERS, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND COVER/SHRUB AREAS, 6" TO 12" AWAY FROM HARDSCAPE OR TURF AREA FOR EASY ACCESS.
- 8. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- 9. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL EXERCISE EXTREME CARE, AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR UTILITIES. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE AGENCIES AND U.S.A. AT 1-800-642-2444 TO FIELD LOCATE ALL
- 10. FIELD ADJUSTMENTS MAY BE REQUIRED TO PROVIDE OPTIMUM OPERATING EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW FIELD ADJUSTMENTS PRIOR TO INSTALLATION. IN THE EVENT THAT NO CONTACT IS MADE WITH THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS.
- 11. SLEEVE ALL IRRIGATION PIPE AND CONTROL WIRES UNDER STREETS AND CONCRETE WALKWAYS WITH THE PROPER SIZE CLASS 200 PVC PIPE
- 12. FOR ADDITIONAL INFORMATION, SEE PROJECT DETAILS AND SPECIFICATIONS.
- 13. ALL WORK SHALL CONFORM TO ALL APPLICABLE CITY OF HAYWARD CONSTRUCTION STANDARDS.
- 14. NO GALVANIZED IRON PIPE OR FITTINGS SHALL BE ALLOWED.

1" / CONTROLLER C

7 CONTROLLER C

B-5 8.5 GPM 1" CONTROLLER C

- 15. A BALL VALVE IN A SEPARATE ROUND VALVE BOX IS TO BE INSTALLED IMMEDIATELY UPSTREAM FROM EACH REMOTE CONTROL VALVE. VALVE SHALL BE SIZED TO MAINLINE SUPPLY AT THE RC VALVE. SEE DETAIL.
- 14. INSTALL 3" WIDE DETECTABLE TAPE (#3" DTP, AS MANUFACTURED BY T. CHRISTY). TAPE SHALL BE INSTALLED 6" ABOVE THE IRRIGATION
- 15. INSTALL ALL LANDSCAPE DRIPLINE 3" BENEATH GRADE AND ALL LINES PARALLEL AT THE SPACING INDICATED. USE LANDSCAPE STAPLES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO SECURE TO TUBING TO GROUND

REFER TO SHEET O-L1.4 FOR IRRIGATION MATER

USE CALCULATIONS AND

HYDROZONE MAP

IRRIGATION LEGEND

FLOW SENSOR AND MASTER VALVE FOR PARKING AREA

PARKING LOT IRRIGATION POINT OF CONNECTION

1" REDUCED PRESSURE BACKFLOW PREVENTER

D-7 19.0 GPM CONTROLLER C

MEST MINTON AVENUE

1" / CONTROLLER C

SYMBOL	EQUIPMENT	MANUFACTURER	MODEL	REMARKS
*	STREAM BUBBLER: 6" POP-UP	HUNTER	PROS-06-PRS30-MSBN-25Q	TREE WELL BUBBLER, AIM AT ROOT BALL; 1 PER TREE
+	ROOT WATERING SYSTEM	HUNTER	RZWS-10-25-CV	1 PER TREE, INSTALL ADJACENT TO & UPHILL FROM TREE
>	REMOTE CONTROL VALVE TREE BUBBLER CIRCUIT	HUNTER	ICV-101G-AS-ADJ	TREE BUBBLER CIRCUIT VALVE
\square	REMOTE CONTROL VALVE: DRIP CIRCUIT	HUNTER	ICZ-101-LF-40	DRIP CIRCUIT VALVE
C3	12 STATION BASE CONTROLLER: PUBLIC PARKING	HUNTER	ACC-1200-SS	MOUNT IN PEDESTAL
E	STAINLESS STEEL CONTROLLER PEDESTAL	HUNTER	PED-SS	
53	SOLAR SYNC SENSOR (WIRELESS)	HUNTER	WSS-SEN	MOUNT AT ROOF LINE ABOVE CONTROLLER LOCATION
	R.P. BACKFLOW PREVENTER : 1" SIZE	WATTS	U009QT SERIES	
$\overline{}$	BALL VALVE IN VALVE BOX	KBI	BTU-XXXX-V	MATCH MAINLINE SIZE
	SUB-SURFACE BIOSWALE IRRIGATION	HUNTER	ECO-MAT 17MM	INSTALL 4" BELOW GRADE ALL BIOSWALE AREAS
SEE DETAIL	LINE FLUSHING VALVE	NETAFIM	TL050MFV	INST. IN VALVE BOX @ END OF CIRCUIT
SEE DETAIL	AIR/VACUUM RELIEF VALVE	NETAFIM	TLAVRV	INST. IN VALVE BOX @ HIGH POINT
	LANDSCAPE DRIPLINE	RAINBIRD	XFS-06-12-XX	INSTALL 3" BELOW GRADE @ SPACING SHOWN
•••••	POLY TO PVC CONNECTOR W/ COMPRESSION FITTING		SEE DETAIL G/L3	
	MAINLINE	PVC	SCH 40	
	LATERAL	PVC	SCH 40	
SM	IRRIGATION SUBMETER	NETAFIM	36M 201 TP 1	INSTALL DOWNSTREAM FROM WATER METER
FS	FLOW SENSOR	CST	FSI-T10-000	INSTALL AT POINT OF CONNECTION
MV	1" NORMALLY CLOSED MASTER VALVE	HUNTER	ICV101-G	INSTALL DOWNSTREAM FROM BACKFLOW PREVENTER
	VALVE STATION AND SEQUENCE			
	ELECTRIC CONTROL VALVE SIZE			
	FLOW RATE IN GALLONS PER MINUTE			

NOTES FOR TYPICAL IRRIGATION SYSTEM: IRRIGATION LATERAL PIPE SIZING TO BE DETERMINED BASED ON THE FOLLOWING INFORMATION.

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- 2. FLOW SHALL NOT EXCEED 5' PER SECOND. 3. MAXIMUM FRICTION LOSS THROUGH ANY SECTION OF PIPE
- SHALL NOT EXCEED 3.00 PSI PER 100' OF PIPE. 4. NO LATERAL SHALL BE SMALLER THAN 3/4" DIAMETER.
- SPRINKLER HEAD AND 50 PSI FOR ROTORS. 6. MAX FLOW THROUGH LATERALS, AS FOLLOWS:

5. MINIMUM OPERATING PRESSURE SHALL BE 25 PSI AT THE

- 3/4" SCH 40 PVC: 5.5 GPM 1" SCH 40 PVC: 10.5 GPM
- 1-1/4" SCH 40 PVC: 17.5 GPM 1-1/2" SCH 40 PVC: 27 GPM
- 2" SCH 40 PVC: 45 GPM 7. ALL MAINLINE TO BE XXX" IN SIZE UNLESS OTHERWISE
- 8. INSTALL SUPPLEMENTAL CHECK VALVES IN LATERALS AT 15' VERTICAL ELEVATION CHANGE, AS REQUIRED.



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HYDROZONE MAP

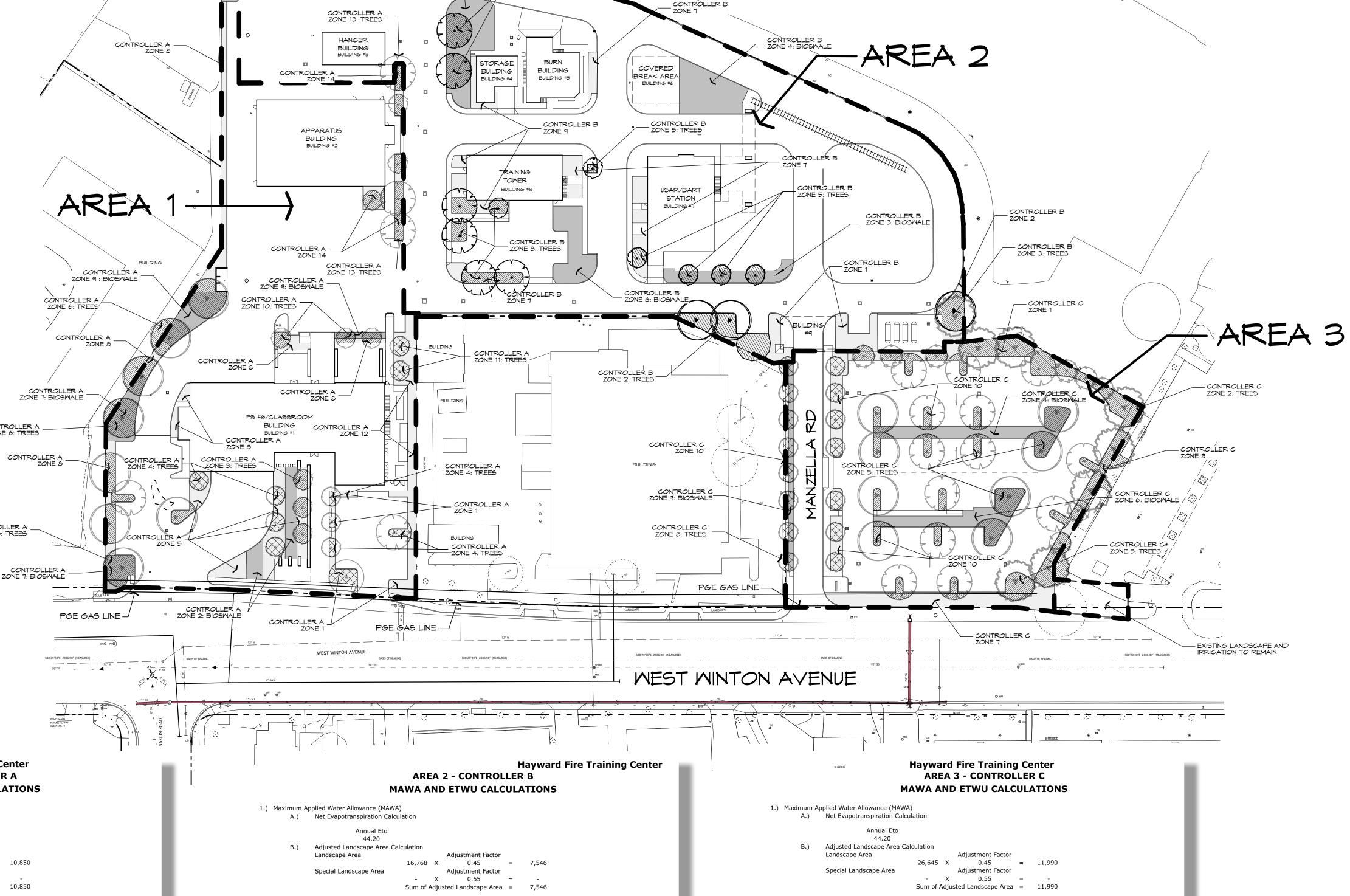
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X 0.62 X 7,872 / 0.81 = 266,339 Gallons **Hydrozone Tables** CONTROLLER A HYDROZONE TABLE **INCHES PER** DUPLICATE AREA

Sum of Adjusted Landscape Area = 7,872

Hayward Fire Training Center

AREA 1 - CONTROLLER A

MAWA AND ETWU CALCULATIONS

X 0.55 =

Sum of Adjusted Landscape Area = 10,850

0.62 X 10,850 = 297,324 Gallons

1.) Maximum Applied Water Allowance (MAWA)

2.) Estimated Total Water Use (ETWU)

A.) Net Evapotranspiration Calculation

B.) Adjusted Landscape Area Calculation

Very Low Water Plant Use SF

Moderate Water Plant Use SF

Low Water Plant Use SF

High Water Use

Landscape Area

Special Landscape Area

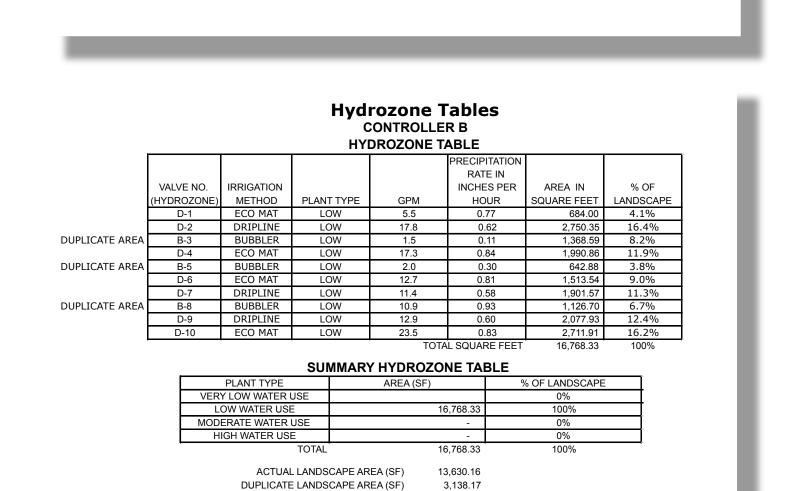
Annual Eto

A.) Net Evapotranspiration Calculation = Annual Eto

CONTROLLER A ZONE 6: TREES

CONTROLLER A _

SUMMARY HYDROZONE TABLE ACTUAL LANDSCAPE AREA (SF) DUPLICATE LANDSCAPE AREA (SF) 7,939.49 CALCULATED MAWA AND ETWU AREA (SF) 24,110.36



CALCULATED MAWA AND ETWU AREA (SF) 16,768.33

X 0.80 = -

Sum of Adjusted Landscape Area = 5,030

2.) Estimated Total Water Use (ETWU)

A.) Net Evapotranspiration Calculation = 44.20

Moderate Water Plant Use SF

X 7,546 = 206,784 Gallons

0.62 X 5,030 / 0.81 = 170,192 Gallons

CONTROLLER B ZONE 10: BIOSMALE

X 11,990 = 328,586 Gallons 2.) Estimated Total Water Use (ETWU) A.) Net Evapotranspiration Calculation Low Water Plant Use SF Moderate Water Plant Use SF - X 0.80 = -Sum of Adjusted Landscape Area = 8,629 X 0.62 X 8,629 / 0.81 = 291,950 Gallons

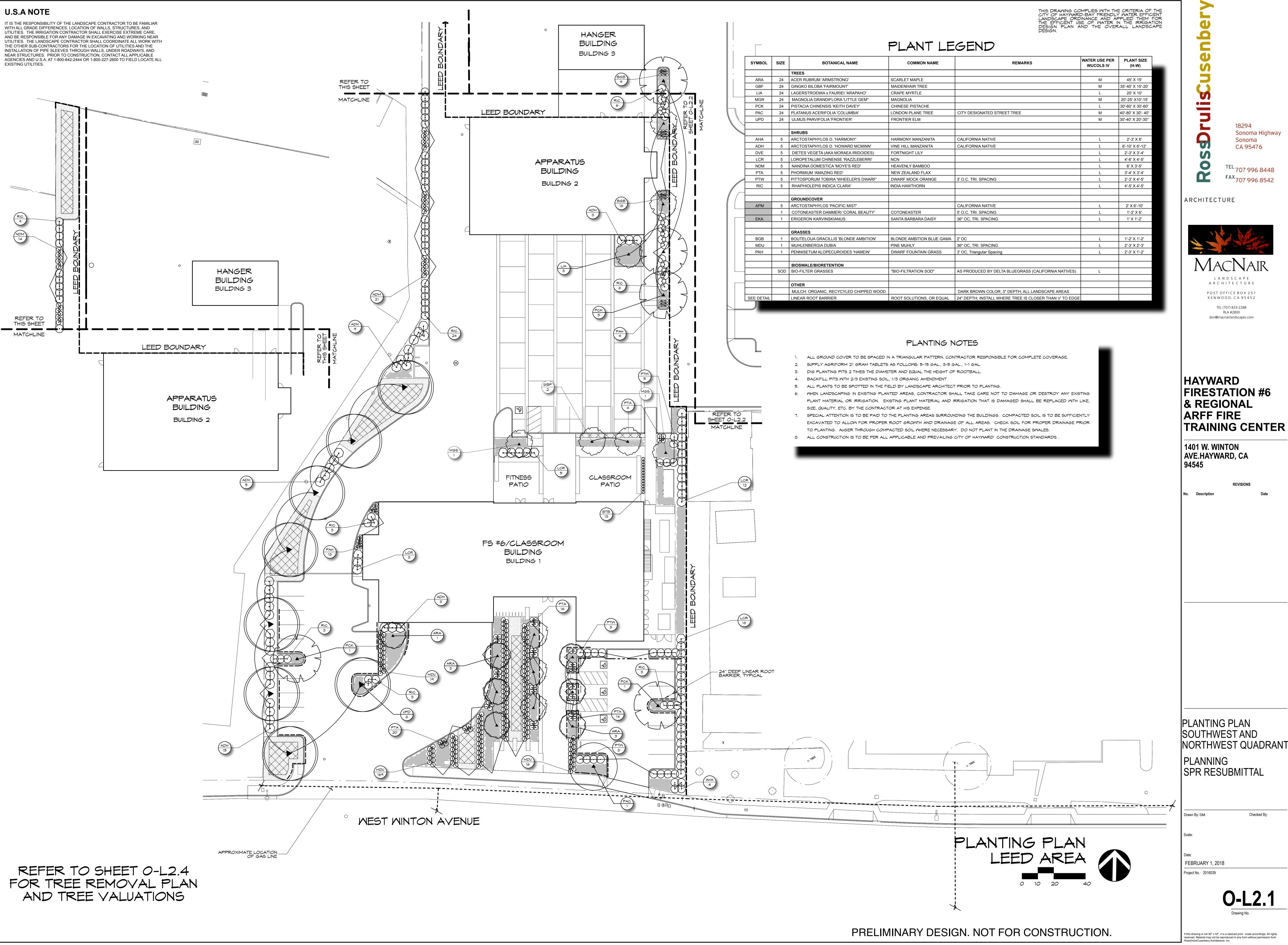
			-	drozone T CONTROLLE YDROZONE TA	R C			
			п		PRECIPITATION			
					RATE IN			
	VALVE NO.	IRRIGATION			INCHES PER	AREA IN	% OF	
	(HYDROZONE)	METHOD	PLANT TYPE	GPM	HOUR	SQUARE FEET	LANDSCAPE	
	D-1	DRIPLINE	LOW	18.4	0.57	3,113.66	11.7%	
OUPLICATE AREA	B-2	BUBBLER	LOW	9.5	0.18	5,118.03	19.2%	
	D-3	DRIPLINE	LOW	18.7	1.26	1,427.90	5.4%	
	D-4	DRIPLINE	LOW	8.9	0.40	2,120.37	8.0%	
DUPLICATE AREA	B-5	BUBBLER	LOW	8.5	0.22	3,731.17	14.0%	
	D-6	DRIPLINE	LOW	16.7	0.84	1,916.92	7.2%	
	D-7	DRIPLINE	LOW	19.0	0.55	3,323.82	12.5%	
DUPLICATE AREA			MODERATE		0.34	2,119.16	8.0%	
	D-9	DRIPLINE	LOW	7.2	0.97	716.08	2.7%	
	D-10	DRIPLINE	LOW	20.7	0.65	3,058.30	11.5%	
				IOIA	L SQUARE FEET	26,645.41	100%	
			SUMMA	ARY HYDROZO	NE TABLE			
		PLANT TYPE		AREA (SF)		% OF LANDSCAF	E	
	VEI	RY LOW WATER	USE	, ,	-	0%		
		LOW WATER U	SE	2	24,526.25	92%		
	MOI	DERATE WATER	RUSE		2,119.16	8%		
		HIGH WATER U	SE		-	0%		
	•		TOTAL	2	26,645.41	100%		
		ACTU	AL LANDSCAPE	EAREA (SF)	15,677.05			
		DUPLICA ^T	E LANDSCAPE	AREA (SF)	10,968.36			
	C	ALCULATED MA	WA AND ETWU	AREA (SF)	26,645.41			

IRRIGATION HYDROZONES AND WATER CALCULATIONS

AREAS GREATER THAN ACTUAL SQUARE FOOTAGE.

MATER USE CALCULATIONS ARE BASED ON ACTUAL AND DUPLICATED LANDSCAPE AREAS. ACTUAL LANDSCAPE AREAS INCLUDE ALL SITE AREAS OCCUPIED WITH LANDSCAPE TREATMENT. DUPLICATED LANDSCAPE AREAS ARE THOSE AREAS WHERE A PROPOSED TREE CANOPY OVERLAPS AN ACTUAL LANDSCAPE AREA. ACTUAL PLUS DUPLICATE LANDSCAPE AREAS ARE INCLUDED IN THE OVERALL LANDSCAPE AREA A FOR MAWA CALCULATIONS.

FOR MAWA AREA AND HYDROZONE CALCULATIONS, SQUARE FOOTAGE BENEATH THE DRIP LINE OF A TREE IS CONSIDERED A SEPARATE HYDROZONE. THIS SQUARE FOOTAGE IS ALSO INCLUDED AS PART OF THE LANDSCAPE HYDROZONE FOR NON-TREE LANDSCAPE AREAS WHICH RESULTS IN CALCULATED LANDSCAPE

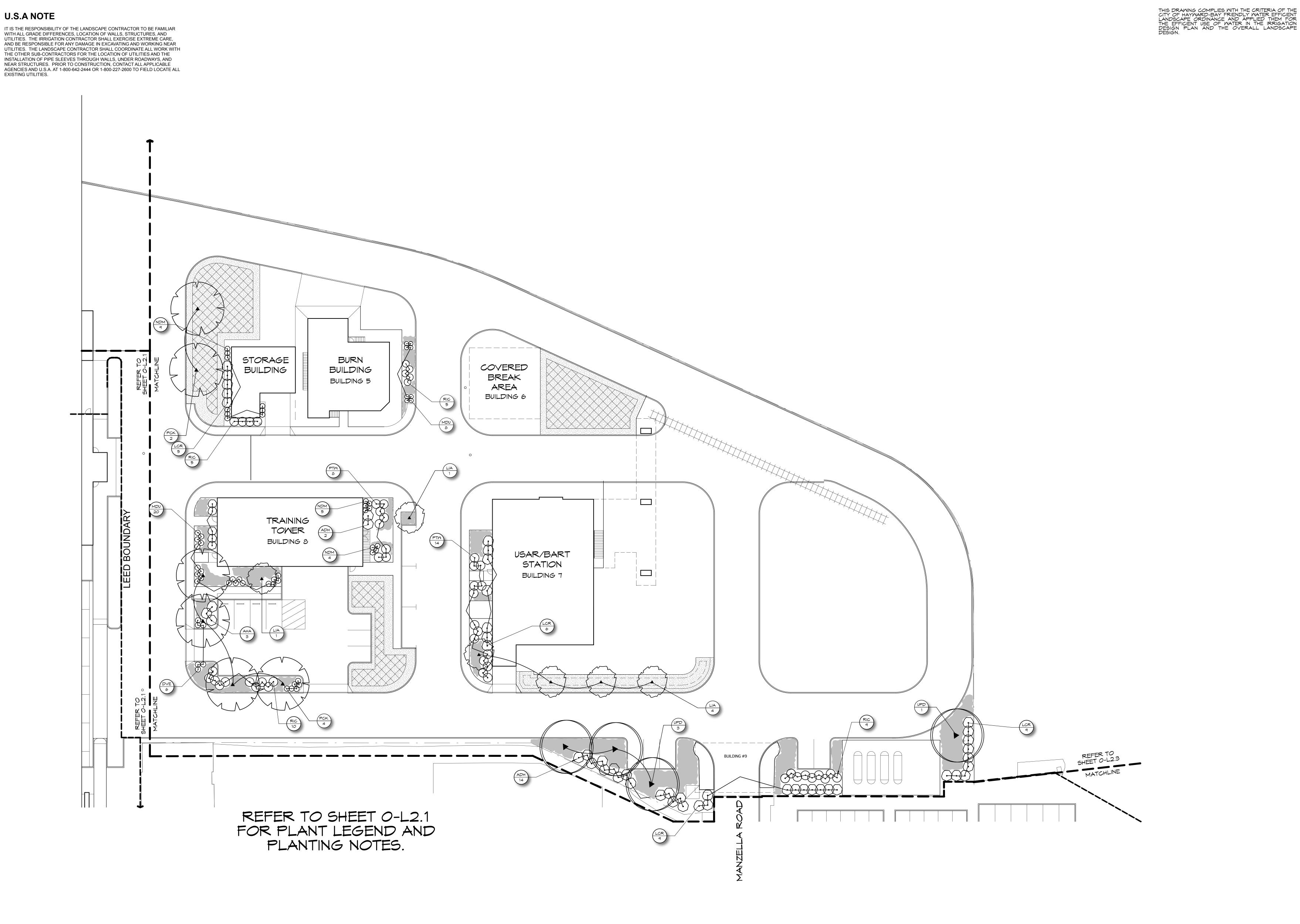


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FIRESTATION #6

NORTHWEST QUADRANT



PLANTING PLAN TRAINING AREA

REFER TO SHEET O-L2.4 FOR TREE REMOVAL PLAN AND TREE VALUATIONS

PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

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PLANTING PLAN NORTHEAST QUADRANT PLANNING SPR RESUBMITTAL

Drawn By: DM

FEBRUARY 1, 2018

Project No. 2016039

O-L2.2

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HAYWARD
FIRESTATION #6
& REGIONAL
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Description

PLANTING PLAN
SOUTHEAST QUADRANT
PLANNING
SPR RESUBMITTAL

vn By: DM Checked

Scale:

Date:

FEBRUARY 1, 2018

Project No. 2016039

O-L2.3

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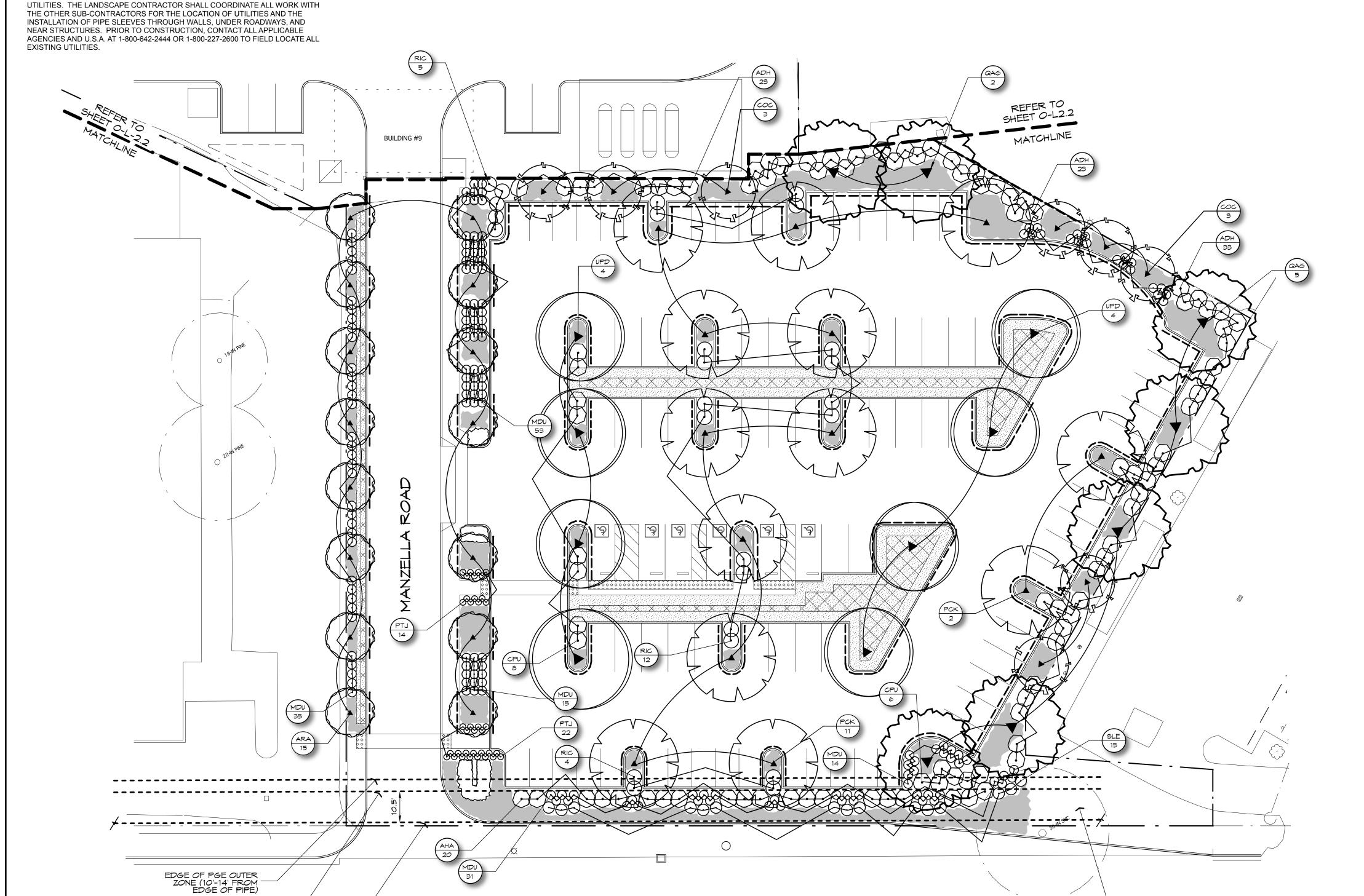
ENT USE OF WATER IN THE IRRIGATION
LAN AND THE OVERALL LANDSCAPE

PLANTING NOTES

- 1. ALL GROUND COVER TO BE SPACED IN A TRIANGULAR PATTERN. CONTRACTOR RESPONSIBLE FOR COMPLETE COVERAGE.
- 2. SUPPLY AGRIFORM 21 GRAM TABLETS AS FOLLOWS: 5-15 GAL., 3-5 GAL., 1-1 GAL.
- 3. DIG PLANTING PITS 2 TIMES THE DIAMETER AND EQUAL THE HEIGHT OF ROOTBALL.

SIZE, QUALITY, ETC. BY THE CONTRACTOR AT HIS EXPENSE.

- 4. BACKFILL PITS WITH 2/3 EXISTING SOIL, 1/3 ORGANIC AMENDMENT
 5. ALL PLANTS TO BE SPOTTED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 6. WHEN LANDSCAPING IN EXISTING PLANTED AREAS, CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE OR DESTROY ANY EXISTING PLANT MATERIAL OR IRRIGATION. EXISTING PLANT MATERIAL AND IRRIGATION THAT IS DAMAGED SHALL BE REPLACED WITH LIKE,
- 7. SPECIAL ATTENTION IS TO BE PAID TO THE PLANTING AREAS SURROUNDING THE BUILDINGS. COMPACTED SOIL IS TO BE SUFFICIENTLY EXCAVATED TO ALLOW FOR PROPER ROOT GROWTH AND DRAINAGE OF ALL AREAS. CHECK SOIL FOR PROPER DRAINAGE PRIOR TO PLANTING. AUGER THROUGH COMPACTED SOIL WHERE NECESSARY. DO NOT PLANT IN THE DRAINAGE SWALES.
- ALL CONSTRUCTION IS TO BE PER ALL APPLICABLE AND PREVAILING CITY OF HAYWARD CONSTRUCTION STANDARDS.



PLANT LEGEND

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	REMARKS	WATER USE PER WUCOLS IV	PLANT SIZE (H-W)
		TREES				
ARA	24	ACER RUBRUM 'ARMSTRONG'	SCARLET MAPLE		M	45' X 15'
COC	24	CERCIS OCCIDENTALIS	WESTERN REDBUD	MULTI-TRUNK, CALIFORNIA NATIVE	VL	20' X 10'-15'
LIA	24	LAGERSTROEMIA x FAURIEI 'ARAPAHO'	CRAPE MYRTLE		L	20' X 10'
PCK	24	PISTACIA CHINENSIS 'KEITH DAVEY'	CHINESE PISTACHE		L	30'-60' X 30'-60'
QAG	24	QUERCUS AGRIFOLIA	COAST LIVE OAK	CALIFORNIA NATIVE	VL	20'-70' X 20'-70'
UPD	24	ULMUS PARVIFOLIA 'FRONTIER'	FRONTIER ELM		M	30'-40' X 20'-30'
		SHRUBS				
AHA	5	ARCTOSTAPHYLOS D. 'HARMONY'	HARMONY MANZANITA	CALIFORNIA NATIVE	L	2'-3' X 6'
ADH	5	ARCTOSTAPHYLOS D. 'HOWARD MCMINN'	VINE HILL MANZANITA	CALIFORNIA NATIVE	L	6'-10' X 6'-12'
CPU	5	CISTUS PURPUREUS	ORCHID ROCKROSE		L	4' X 4'-6
PTJ	5	PHORMIUM TENAX 'JACK SPRATT'	NEW ZEALAND FLAX		L	1'-2' X 1'-2'
RIC	5	RHAPHIOLEPIS INDICA 'CLARA'	INDIA HAWTHORN		L	4'-5' X 4'-5'
SLE	5	SALVIA LEUCANTHA 'PURPLE VELVET'	MEXICAN BUSH SAGE		L	3'-5' X 3'- 5'
		GROUNDCOVER				
APM	5	ARCTOSTAPHYLOS 'PACIFIC MIST'		CALIFORNIA NATIVE	L	2' X 6'-10'
	1	COTONEASTER DAMMERI 'CORAL BEAUTY'	COTONEASTER	5' O.C. TRI. SPACING	L	1'-2' X 6'
EKA	1	ERIGERON KARVINSKIANUS	SANTA BARBARA DAISY	36" OC, TRI. SPACING	L	1' X 1'-2'
		GRASSES				
MDU	1	MUHLENBERGIA DUBIA	PINE MUHLY	36" OC, TRI. SPACING	L	2'-3' X 2'-3'
		BIOSWALE/BIORETENTION				
	SOD	BIO-FILTER GRASSES	"BIO-FILTRATION SOD"	AS PRODUCED BY DELTA BLUEGRASS (CALIFORNIA NATIVES)	L	
		OTHER				
		MULCH: ORGANIC, RECYCYLED CHIPPED WOOD		DARK BROWN COLOR; 3" DEPTH; ALL LANDSCAPE AREAS		
SEE DETAIL		LINEAR ROOT BARRIER	ROOT SOLUTIONS, OR EQUAL	24" DEPTH; INSTALL WHERE TREE IS CLOSER THAN V' TO EDGE		

PLANTING PLAN
PUBLIC PARKING LOT

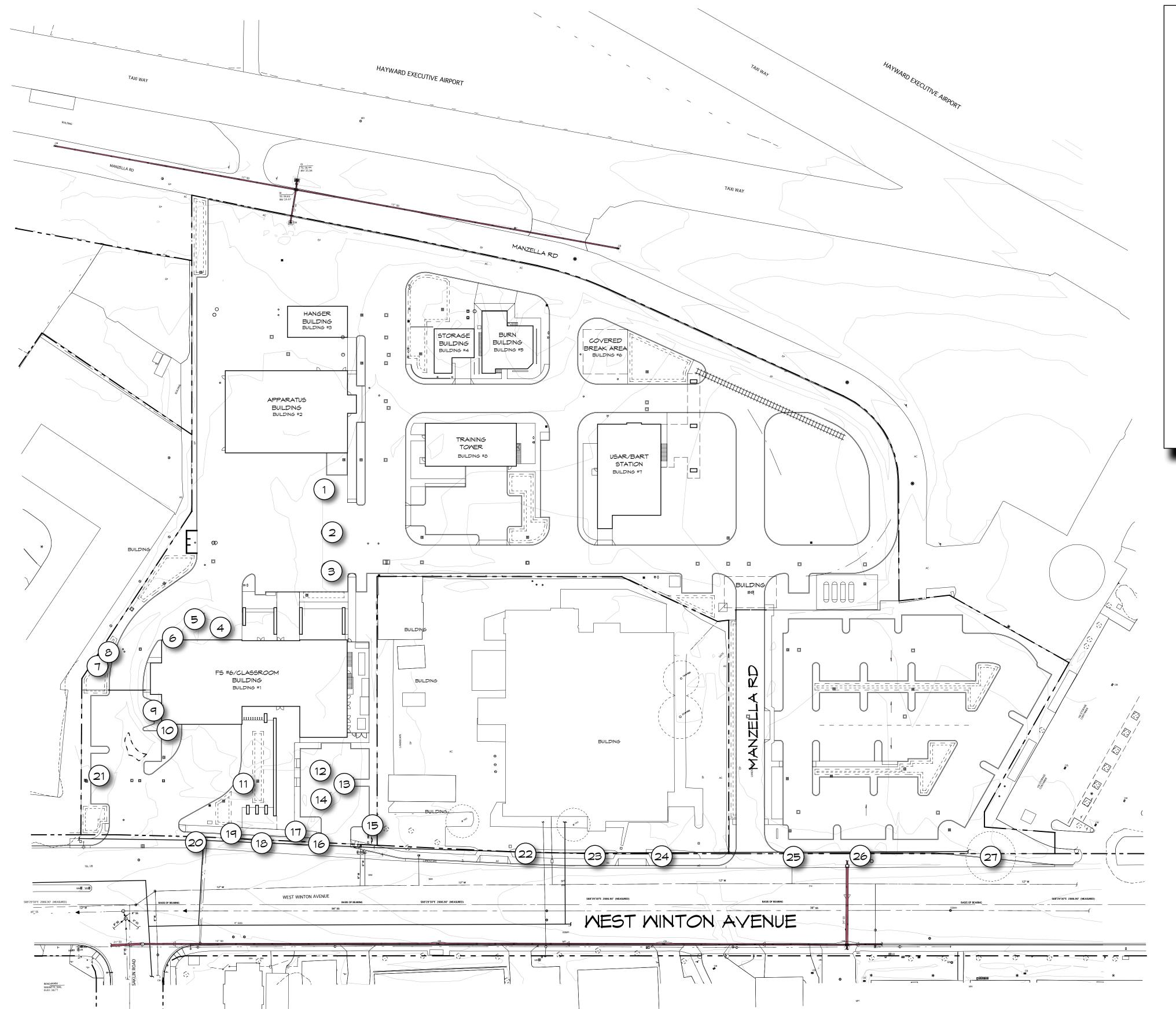
0 10 20 40

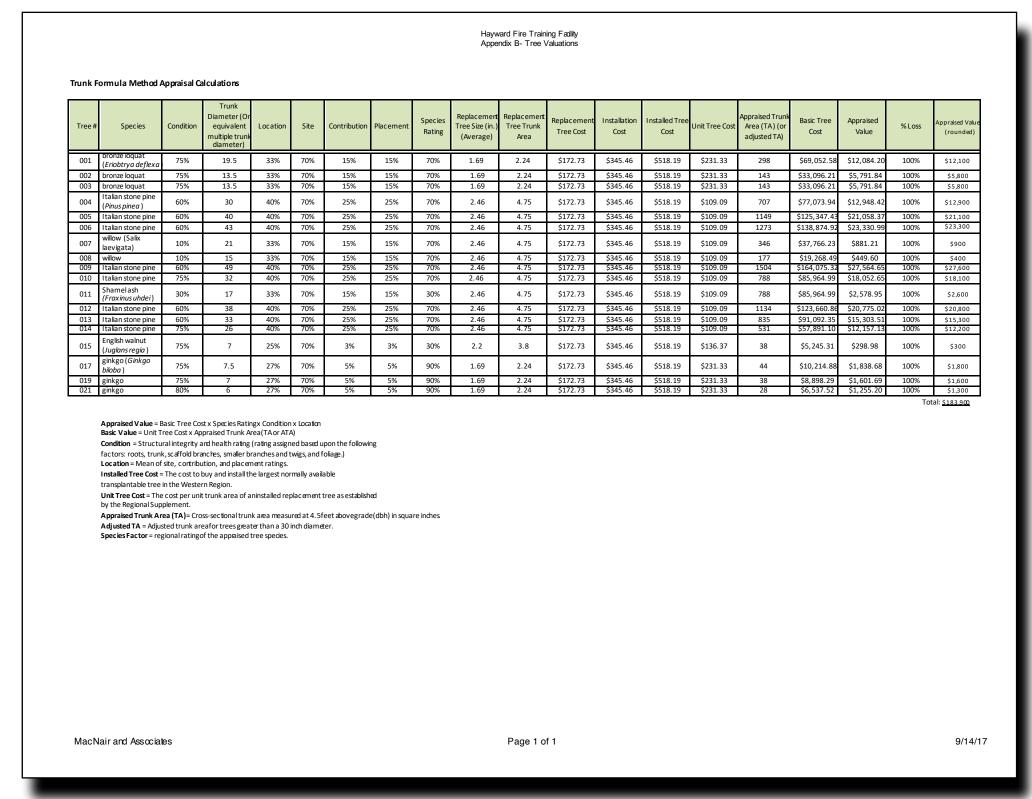
EDGE OF PGE OUTER ZONE (10'-14' FROM ⁻ EDGE OF PIPE)

APPROXIMATE LOCATION _ OF GAS LINE

U.S.A NOTE

IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL EXERCISE EXTREME CARE, AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR





				•				CA- Tree Evaluation and Construction Impact As	ssessment (Apper	ndix A)				
Hayward	Fire Training Facility, Haywa				ction Impact : 3.0 = mode			Constru	iction Impact Code	e: RC= Removal Due to Cons	truction			
					2.5 = margi 2.0 = margi	nal to mode	rate		,	RR- Removal Recommend PI= Possible Impact- Tree	ded Due to Con			
					1.5 = poor 1.0 = poor	_	condition	NI= No Impact						
Tree Tag /GPS Waypoin t	Species	Trunk Diameter @ 4.5' (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based on Condition)	Construction Impact	Tree Impact Code	Protected Tree Status	Appraisal Value (Protected Trees)	
001	bronze loquat (<i>Eriobtrya</i> deflexa)	19.5	1	25'±	35'-40'±	3.0	3.0	Wide, spreading crown form. Closely spaced, multiple limb attachments form at 8'. No significant structural defects observed. Vigor and foliage density are moderate to good.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$12,100.00	
002	bronze loquat	13.5	1	25'±	25'±	3.0	3.0	Rounded crown form with closely spaced, multiple limb attachments form at 8°. No significant structural defects observed. Areas of variable foliage density. Limited twig dieback occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$5,800.00	
003	bronze loquat	13.5	1	25'±	30'±	2.5	3.0	Wind shaped crown with closely spaced, multiple limb attachments form at 8'. Significant twig dieback occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$5,800.00	
004	Italian stone pine (<i>Pinus</i> pinea)	30.5	1	35'-40'±	50'-55'±	3.0	2.0	Mature tree with co-dominant trunks forming at 10'. West trunk has 45° angle and then ascends. Originally a three trunk structure with trunk removal scar. Wood reaction ridge present. Dense crown with normal vigor. Dense ivy on lower trunk	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$12,900.00	
005	Italian stone pine	26; 31	2	35'-40'±	50'-55'±	3.0	2.0	Mature tree with three trunk structure forming at 4.5'. Wide, symmetrical crown form. Wood reaction ridge formed at trunk union. Significant pavement displacement occurring from roots. Vigor and foliage density are normal. Dense by on lower trunk.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$21,100.00	
006	Italian stone pine	43	1	35'-40'±	50'-55'±	3.0	2.0	Mature tree with closely spaced limb attachments forming at 6'. Wide, symmetrical, and dense crown. Extended limb over building. Vigor and foliage density are normal. Dense ivy on lower trunk.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$23,300.0	
007	willow (Salix laevigata)	21	1	40'-45'±	35'-40'±	2.0	1.5	Mature tree with significant trunk and limb decay. History of limbfailure. Old second trunk removed at base.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$900.00	
008	willow	6; 14	2	40'±	30'-35'±	2.0	2.0	Low, two trunk structure forming at grade. Small cavity opening at base of trunk. High-branched structure. On opposite side of fence is a 15 "willow in very poor condition.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$400.00	
009	Italian stone pine	34; 35	2	45'-50'±	40'-45'±	3.0	2.0	Mature tree with low, two-trunk structure. Wide structure with extended and heavy limbs. History of lower crown pruning. Vigor and foliage density are normal.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$27,600.0	

ree Tag /GPS Vaypoin t	Species	Trunk Diameter @ 4.5' (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based on Condition)	Construction Impact	Tree Impact Code	Protected Tree Status	Appraisal Value (Protected Trees)
010	Italian stone pine	32	1	50'±	30'-35'±	3.0	3.0	Mature tree with single trunk structure. Upright crown form with no significant structural defect observed. Dense crown. Pavement displacement occurring.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$18,100.00
011	Shamel ash (Fraxinus uhdei)	17		30'-35'±	30'-35'±	2.0	2.0	Semi-mature tree with closely spaced, multiple limb attachments. Deep seams and included attachments present. Vigor is moderately low, with significant upper crown dieback occurring.	Poor	Located within construction or grading limits with removal required.	RC	Yes	\$2,600.00
012	Italian stone pine	24; 30	2	35'-40'±	35'-40'±	3.0	2.0	Mature tree with two-trunk structure with seam present. Dense, symmetrical crown form. Extended and weighted limb form.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$20,800.00
013	Italian stone pine	33.5	1	35'-40'±	35'-40'±	3.0	2.0	Mature tree with co-dominant trunks forming at 10'. Vertical trunk forms with narrow union and wood reaction ridge present.	Marginal	Located within construction or grading limits with removal required.	RC	Yes	\$15,300.00
014	Italian stone pine	26		35'-40'±	35'-40'±	3.0	3.0	Mature tree with single trunk structure. No significant structural defects observed. Dense crown.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$12,200.00
015	English walnut (Juglans regia)	7 (low)	2	12'±	15'±	3.0	3.0	Young tree with low structure. No significant structural defects observed. Vigor and foliage density are moderate. Located at fence line.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$300.00
016	London plane tree (<i>Platanus xacerifolia</i> 'Bloodgood')	26	1	40'-45'±	45'-50'±	2.0	3.0	Mature tree located adjacent to sidewalk. History of displacement and repairs. Closely spaced, multiple limb attachments form at 10'. History of lower crown pruning. No significant structural defects. Vigor is low with significant branch and twig dieback occurring. Apparent drought stress.	Marginal	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
017	ginkgo (<i>Ginkgo biloba</i>)	7.5	1	15'±	20'±	2.5	3.0	Small tree with leaning form. No significant structural defects. Vigor is moderately low from drought stress.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$1,800.00
018	London plane tree	16.5	1	35'±	30'±	1.5	2.5	Mature tree located adjacent to storm drain. Open limb structure with history of lower crown pruning Very low vigor with substantial branch and twig dieback.	Poor	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
019	ginkgo	7	1	18'-20'±	15'±	3.0	3.0	Young tree with closely spaced multiple limb attachments. No significant structural defects observed. Vigor and foliage density are moderate.	Moderate	Located within construction or grading limits with removal required.	RC	Yes	\$1,600.00
020	London plane tree	13	1	35'±	30'±	2.0	2.5	Located in 4' sidewalk cutout. Semi-mature tree with open, symmetrical crown form. Lower crown pruning. Vigor is low with twig dieback occurring.	Marginal	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
MacN	air and Associates							Page 2 of 3					9/14/17

Tree Tag /GPS Waypoin	Species	Trunk Diameter @ 4.5'	# of Trunks	Crown Height	Crown Diam <i>e</i> ter	Health Rating	Structural Rating	CA- Tree Evaluation and Construction Impact As Comments/Observations	Suitability for Preservation (Based on	Construction Impact	Tree Impact Code	Protected Tree Status	Apprai Value (Protec
021	ginkgo	(inches)	1	18'±	12'±	3.0	3.0	Young tree with no significant structural defects. Vigor and foliage density are moderate.	Condition) Moderate to Good	Located within construction or grading limits with removal required.	RC	Yes	\$1,300
022	London plane tree	27	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
023	London plane tree	25	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
024	London plane tree	18.5	1	50'-55'±	50'-60'±	1.5	2.5	Mature tree nearly entirely defoliated. Lower trunk wound present. Open limb structure.	Poor	Located within the PG&E high pressure gas line easement and is being removed as part of the	NA	Yes	NA
025	London plane tree	26	1	45'-50'±	40'-45'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	gas line project. Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
026	London plane tree	15.5	1	45'-50'±	40'-45'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA
027	London plane tree	31.5	1	50'-55'±	50'-60'±	2.5	3.0	Mature tree with closely spaced, multiple limb attachments. No significant structural defects present. Lower crown pruning. Vigor and foliage density are moderately low with twig dieback occurring.	Moderate	Located within the PG&E high pressure gas line easement and is being removed as part of the gas line project.	NA	Yes	NA

TREE REMOVAL AND MITIGATION

OT EOD CONSTDUCTION

PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

RossDrulisCusenbery

Sonoma Highway Sonoma CA 95476 TEL 707 996 8448 FAX 707 996 8542

ARCHITECTURE



LANDSCAPE
ARCHITECTURE

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KENWOOD, CA 95452

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don@macnairlandscapes.com

HAYWARD
FIRESTATION #6
& REGIONAL
ARFF FIRE
TRAINING CENTER

1401 W. WINTON AVE.HAYWARD, CA 94545

REVISIONS

Description

Date

TREE REMOVAL PLAN

PLANNING SPR RESUBMITTAL

rn By: DM Checked By:

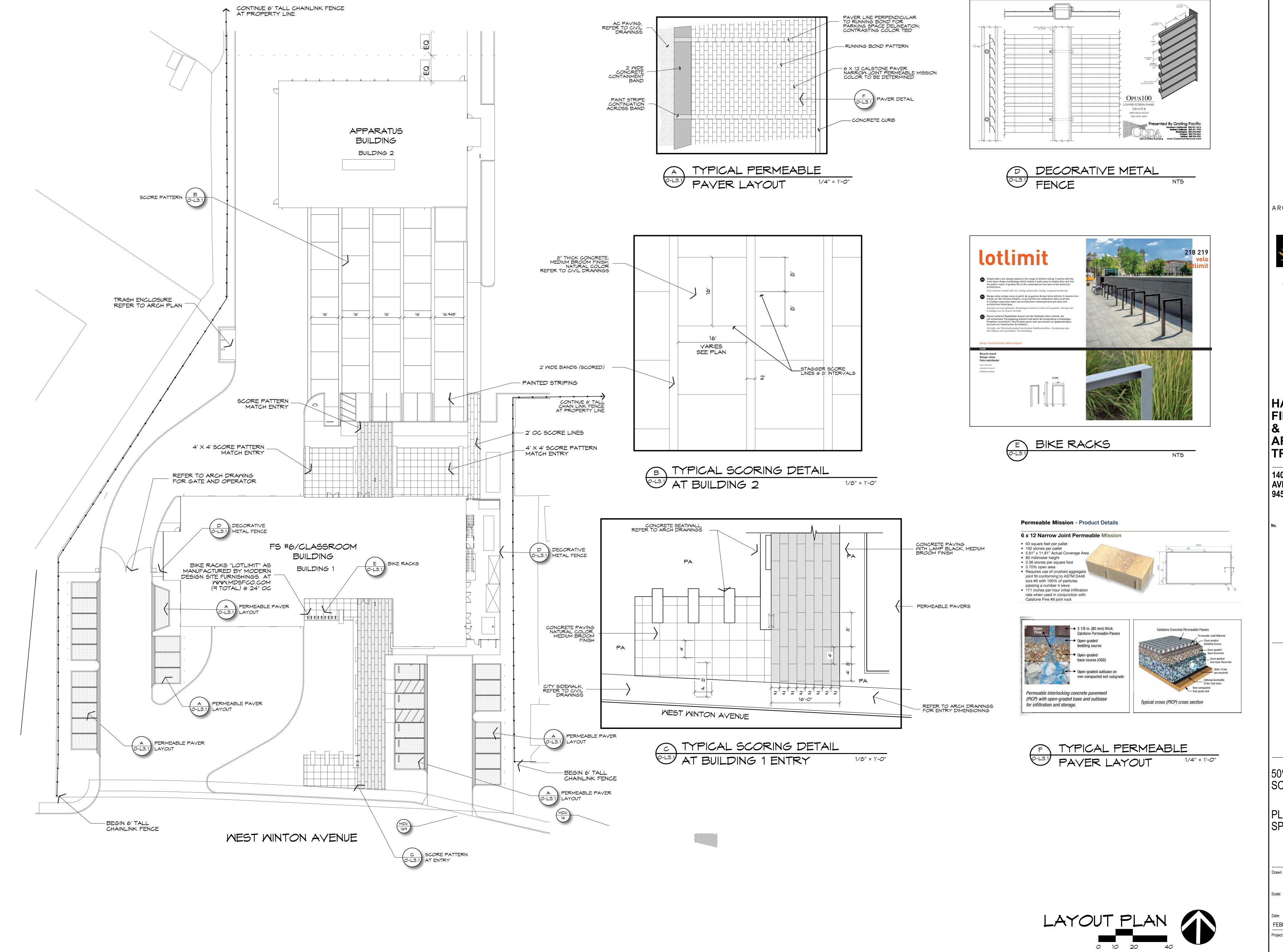
ate:

FEBRUARY 1, 2018
Project No. 2016039

O-L2.4

Drawing No.

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HAYWARD
FIRESTATION #6
& REGIONAL
ARFF FIRE
TRAINING CENTER

1401 W. WINTON AVE.HAYWARD, CA 94545

REVISIONS

Description Date

50% CD LAYOUT PLAN SOUTHWEST QUADRANT

PLANNING SPR RESUBMITTAL

Drawn By: DM Checked By:

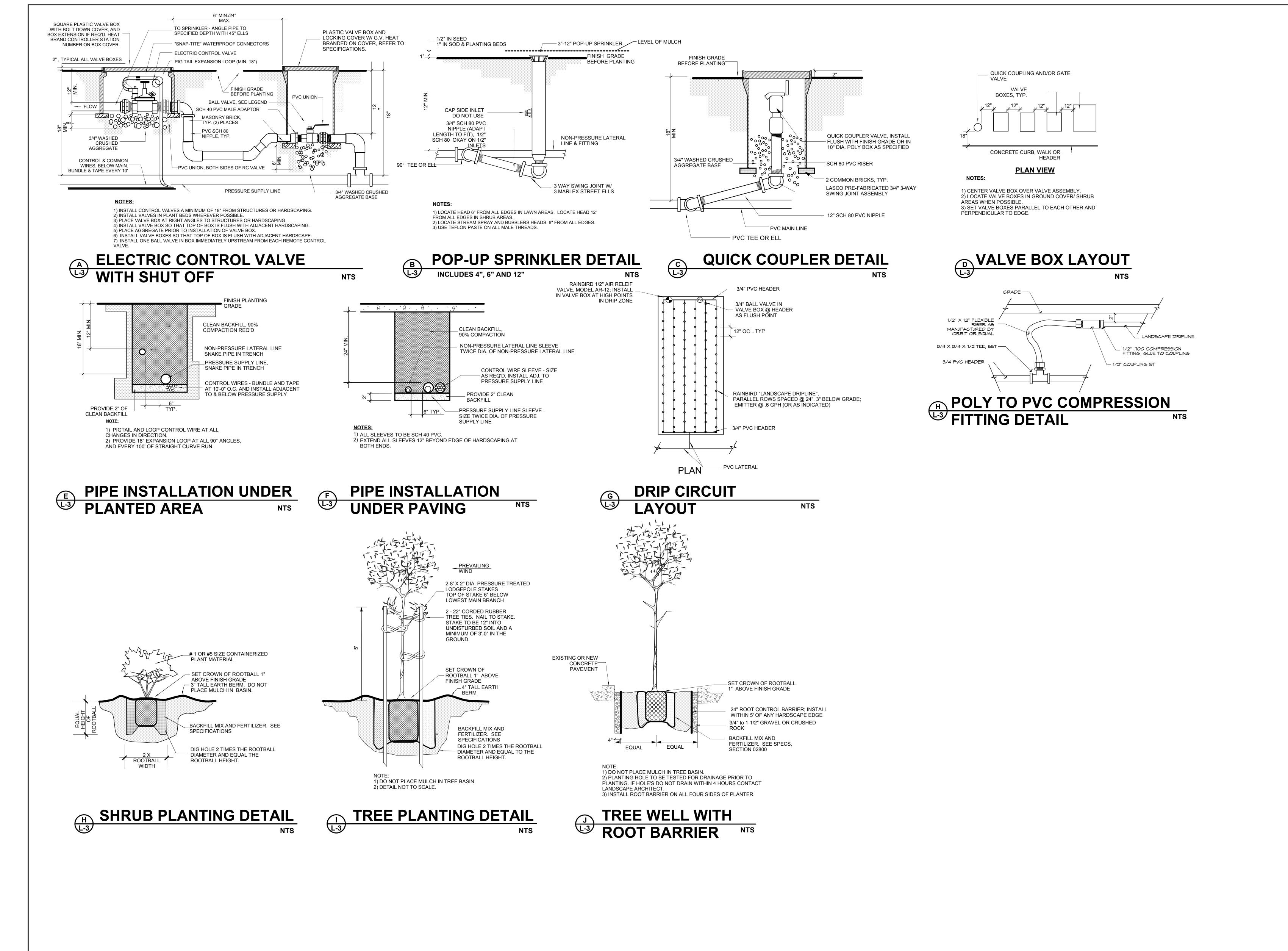
Date: FEBRUARY 1, 2018

Project No. 2016039

O-L3.1

Drawing No.

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SaDrufiscusenber

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HAYWARD
FIRESTATION #6
& REGIONAL
ARFF FIRE
TRAINING CENTER

1401 W. WINTON AVE.HAYWARD, CA 94545

REVISIONS o. Description Date

LANDSCAPE DETAILS

PLANNING SPR RESUBMITTAL

Drawn By: DM Checked By:

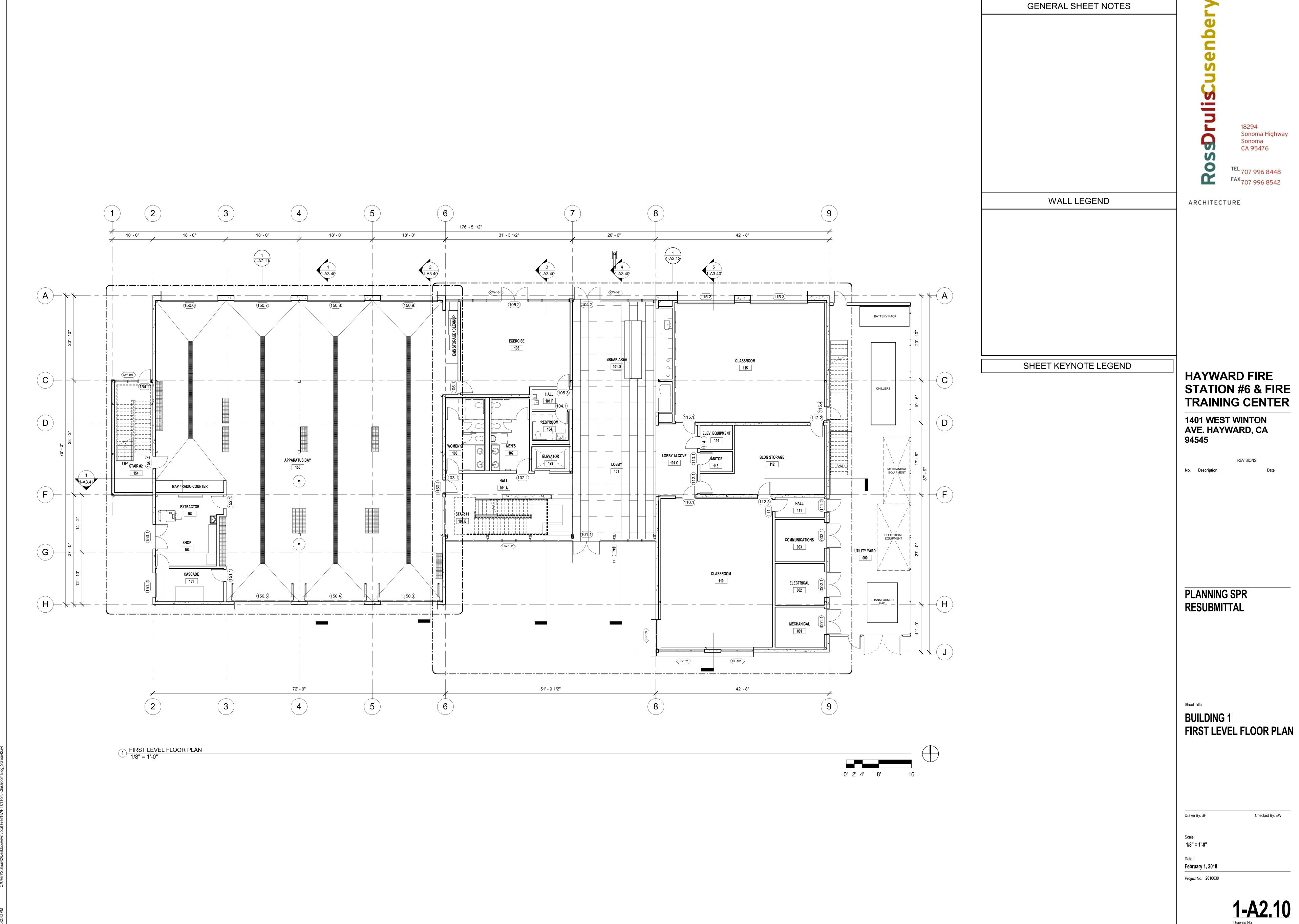
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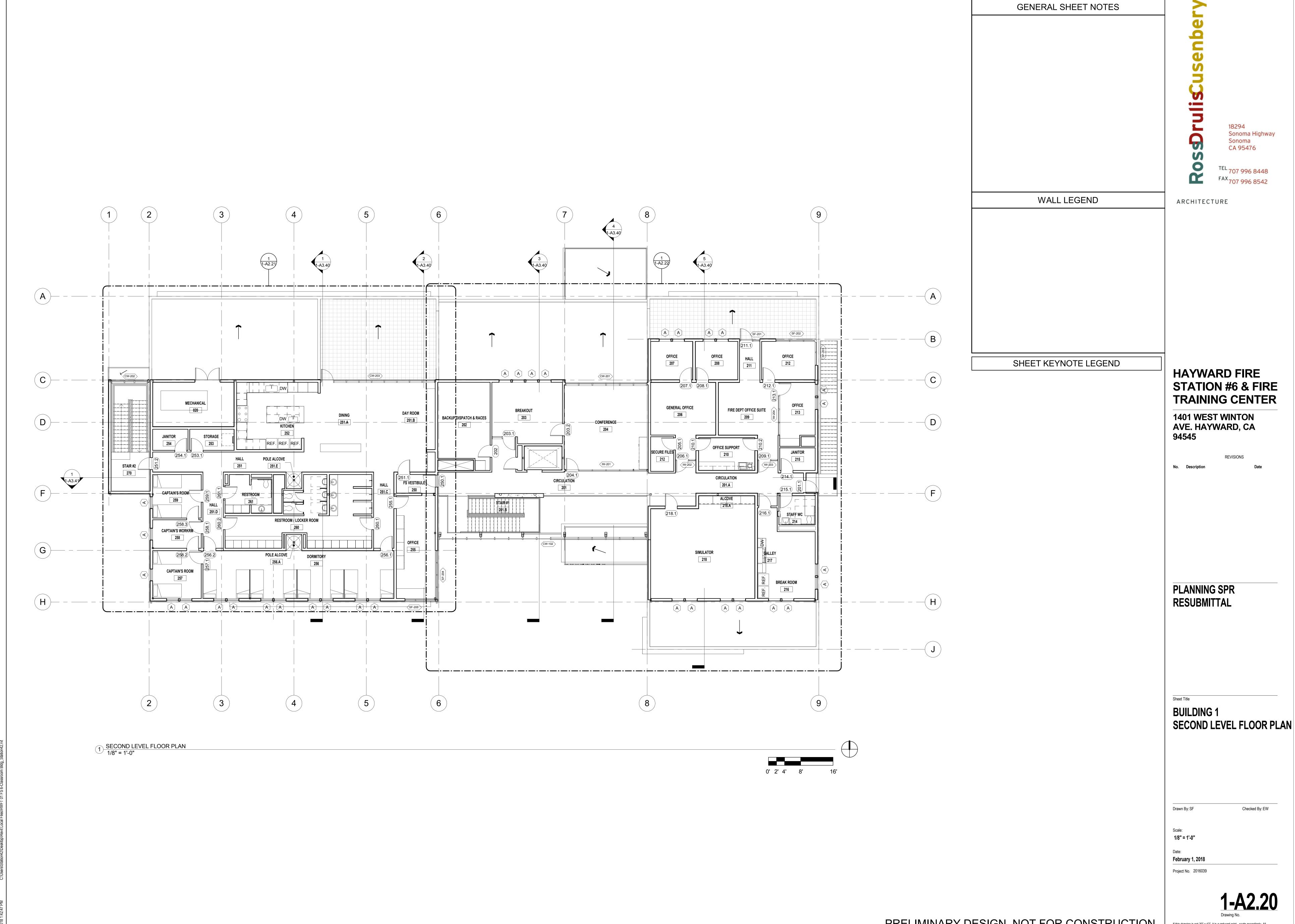
FEBRUARY 1, 2018

Project No. 2016039

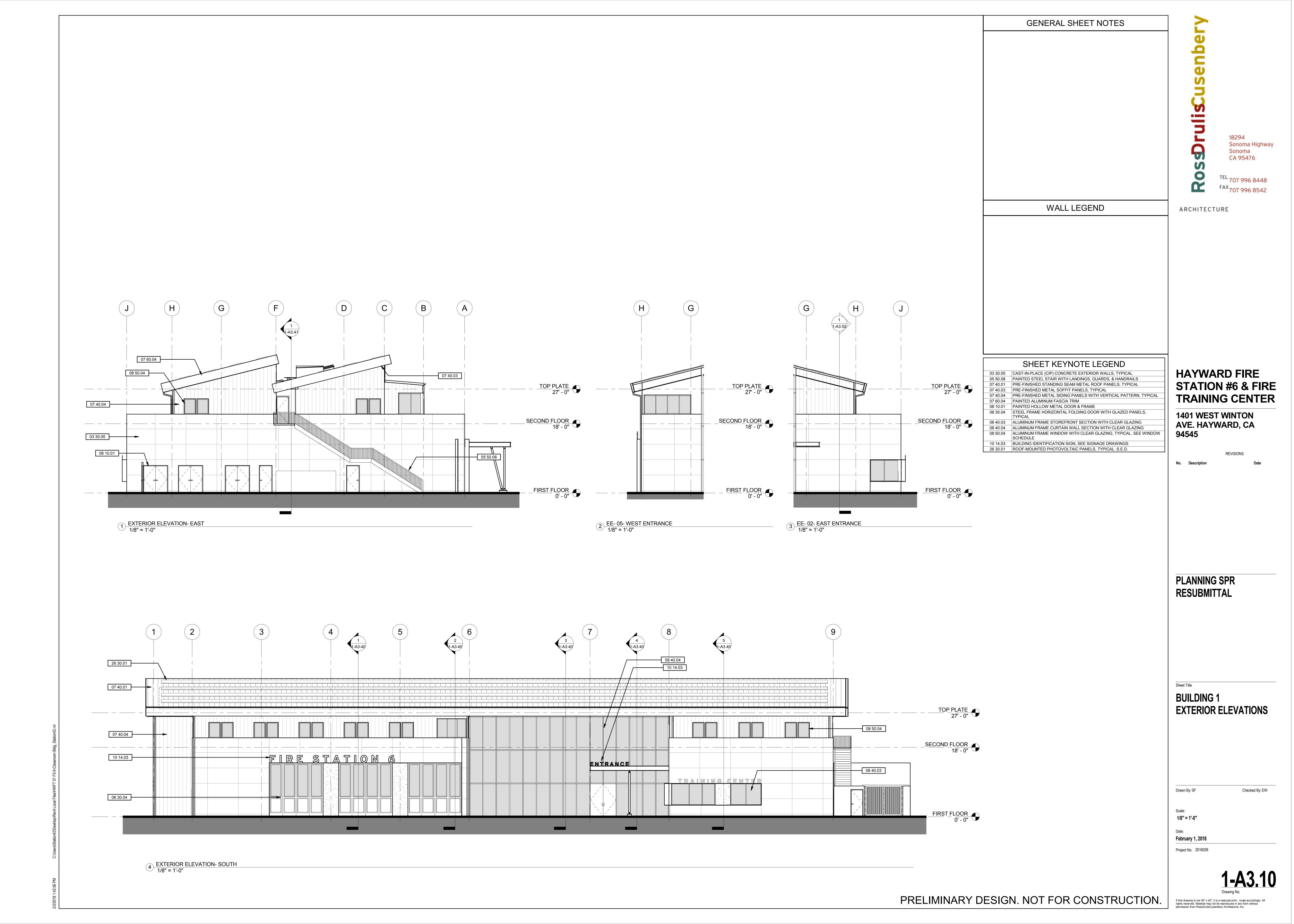
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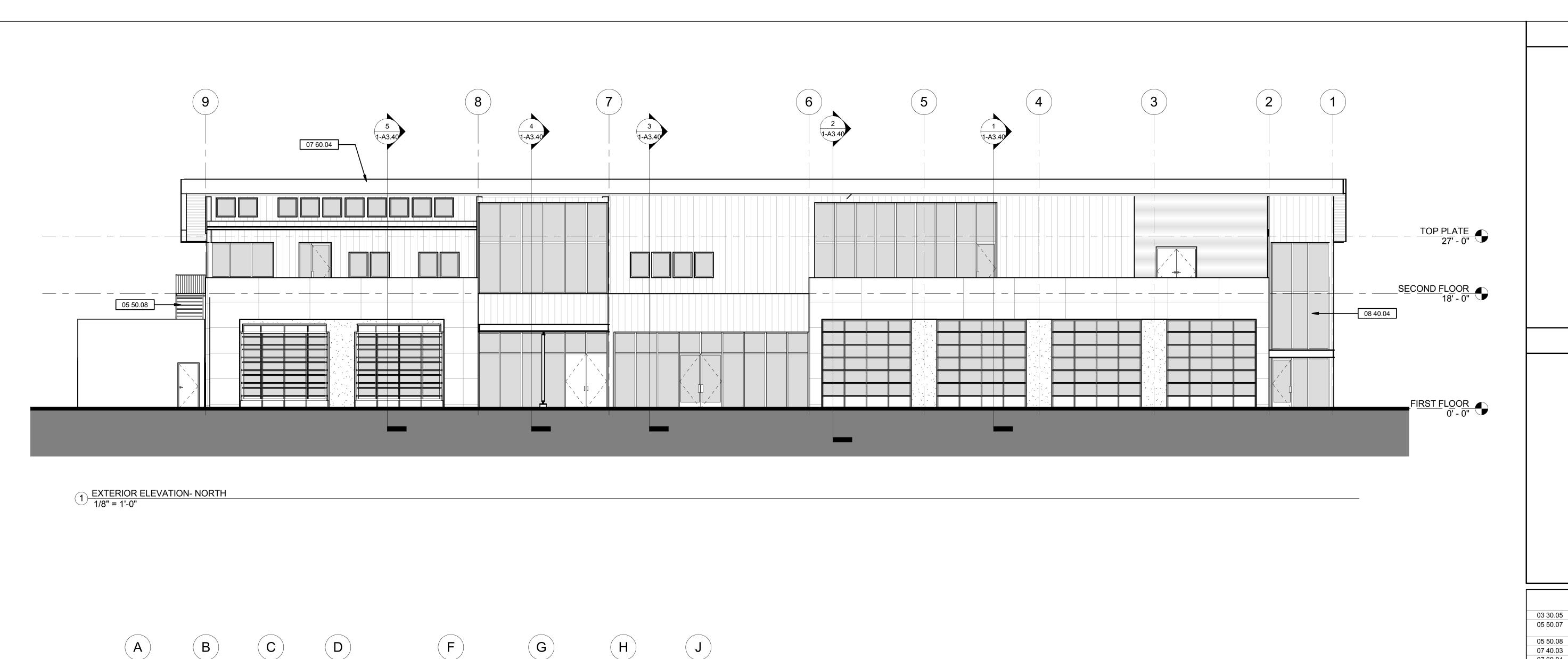
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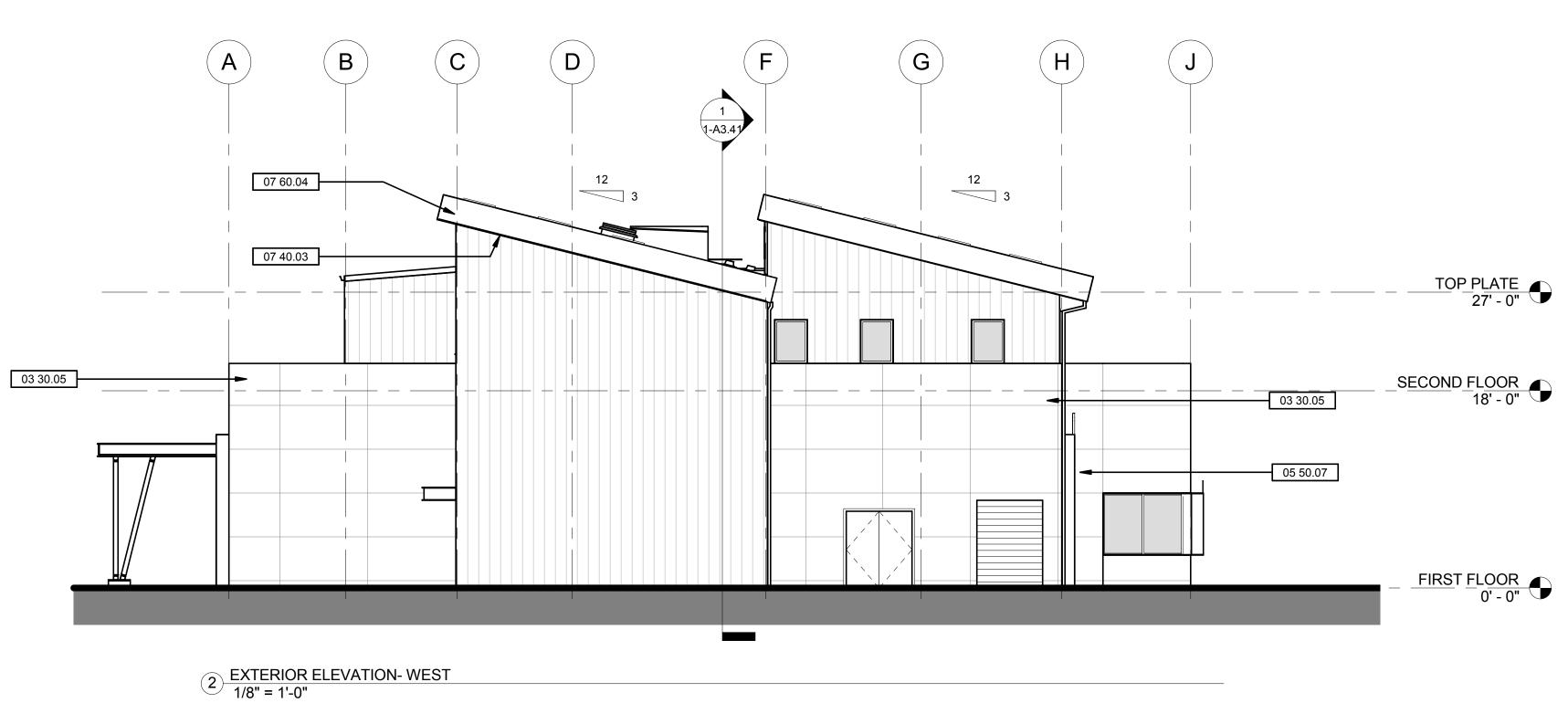


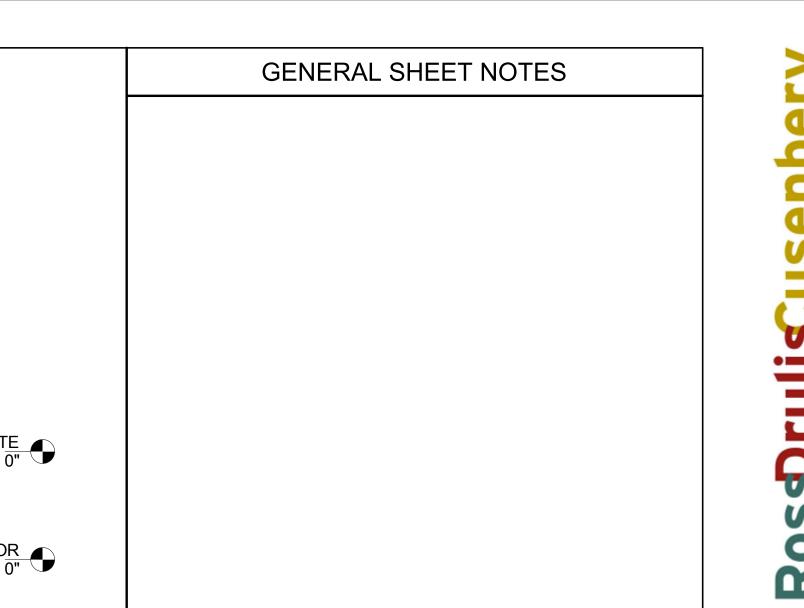


PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.









WALL LEGEND

SHEET KEYNOTE LEGEND

03 30.05 CAST-IN-PLACE (CIP) CONCRETE EXTERIOR WALLS, TYPICAL
05 50.07 PAINTED ALUMINUM PLATE "PORTAL" AT HEAD & JAMBS OF APPARATUS
BAY DOOR GROUP

05 50.08 PAINTED STEEL STAIR WITH LANDINGS, GUARDS, & HANDRAILS
07 40.03 PRE-FINISHED METAL SOFFIT PANELS, TYPICAL
07 60.04 PAINTED ALUMINUM FASCIA TRIM
08 40.04 ALUMINUM FRAME CURTAIN WALL SECTION WITH CLEAR GLAZING

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

Sonoma Highway

CA 95476

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ARCHITECTURE

1401 WEST WINTON AVE. HAYWARD, CA 94545

REVISIONS

PLANNING SPR RESUBMITTAL

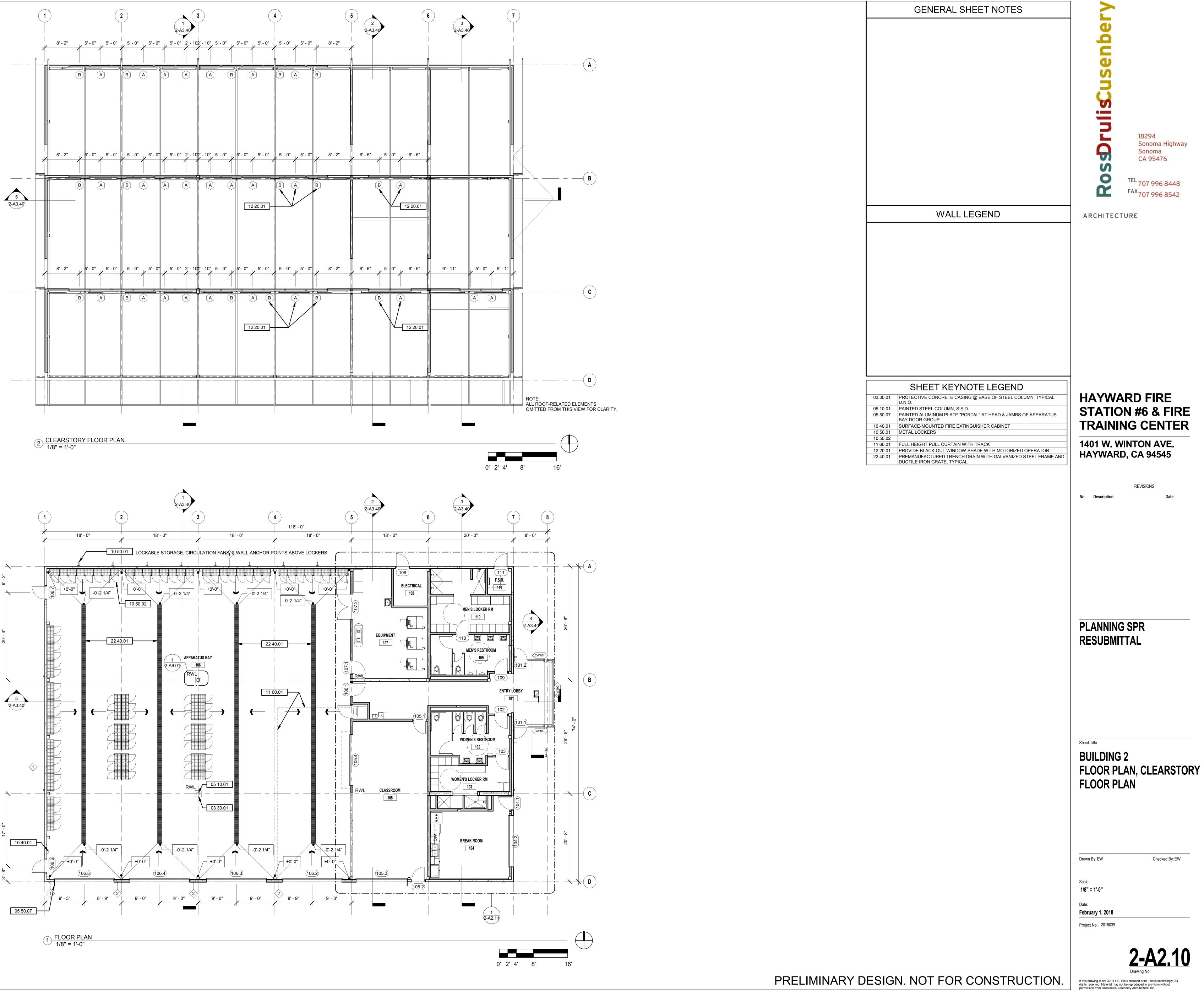
Sheet Title

BUILDING 1 EXTERIOR ELEVATIONS

Drawn By: SF Checked By: EW

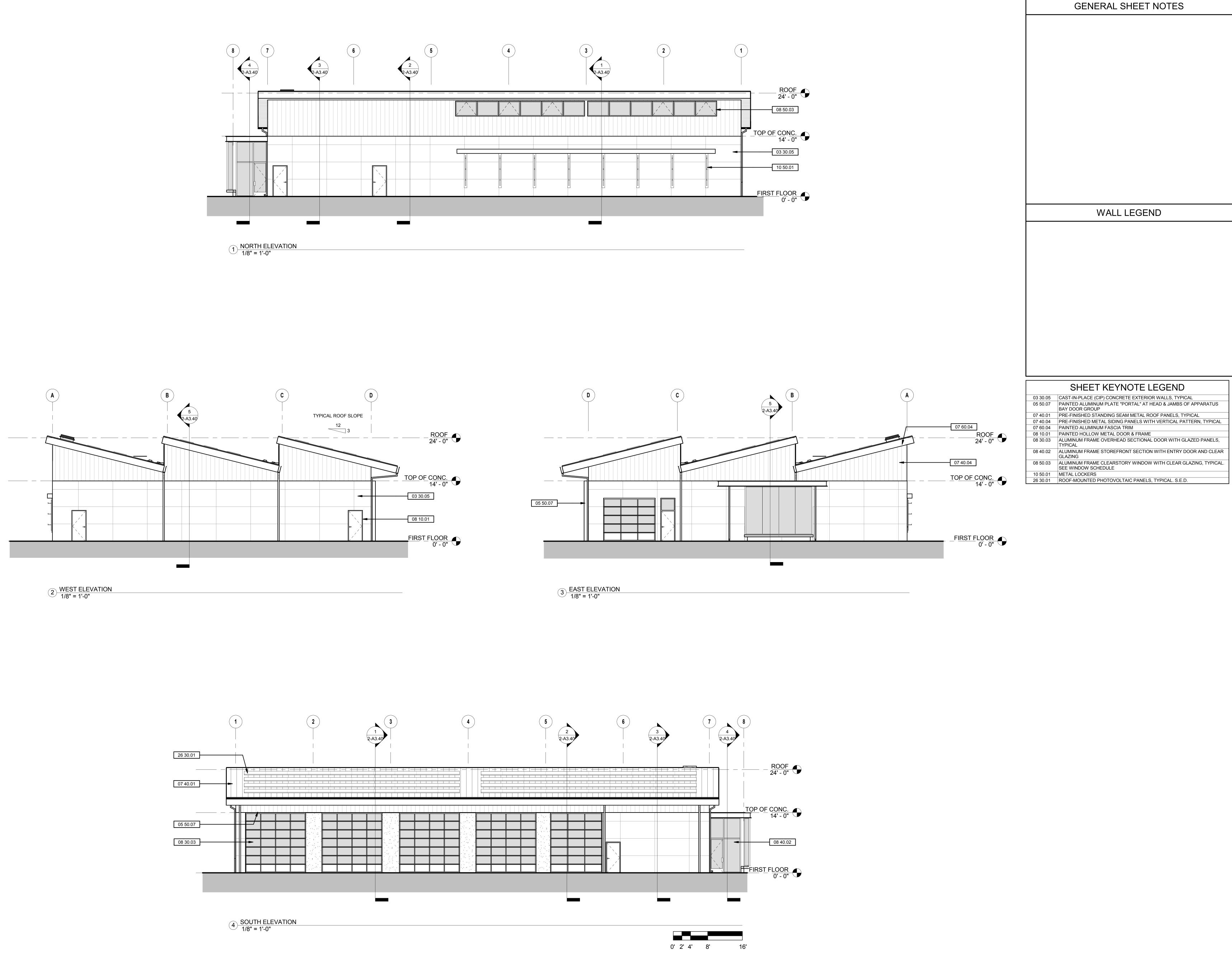
1/8" = 1'-0"

February 1, 2018 Project No. 2016039



PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

Checked By: EW



ARCHITECTURE

Sonoma Highway

Sonoma

CA 95476

HAYWARD FIRE STATION #6 & FIRE

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TRAINING CENTER

REVISIONS

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 2 EXTERIOR ELEVATIONS

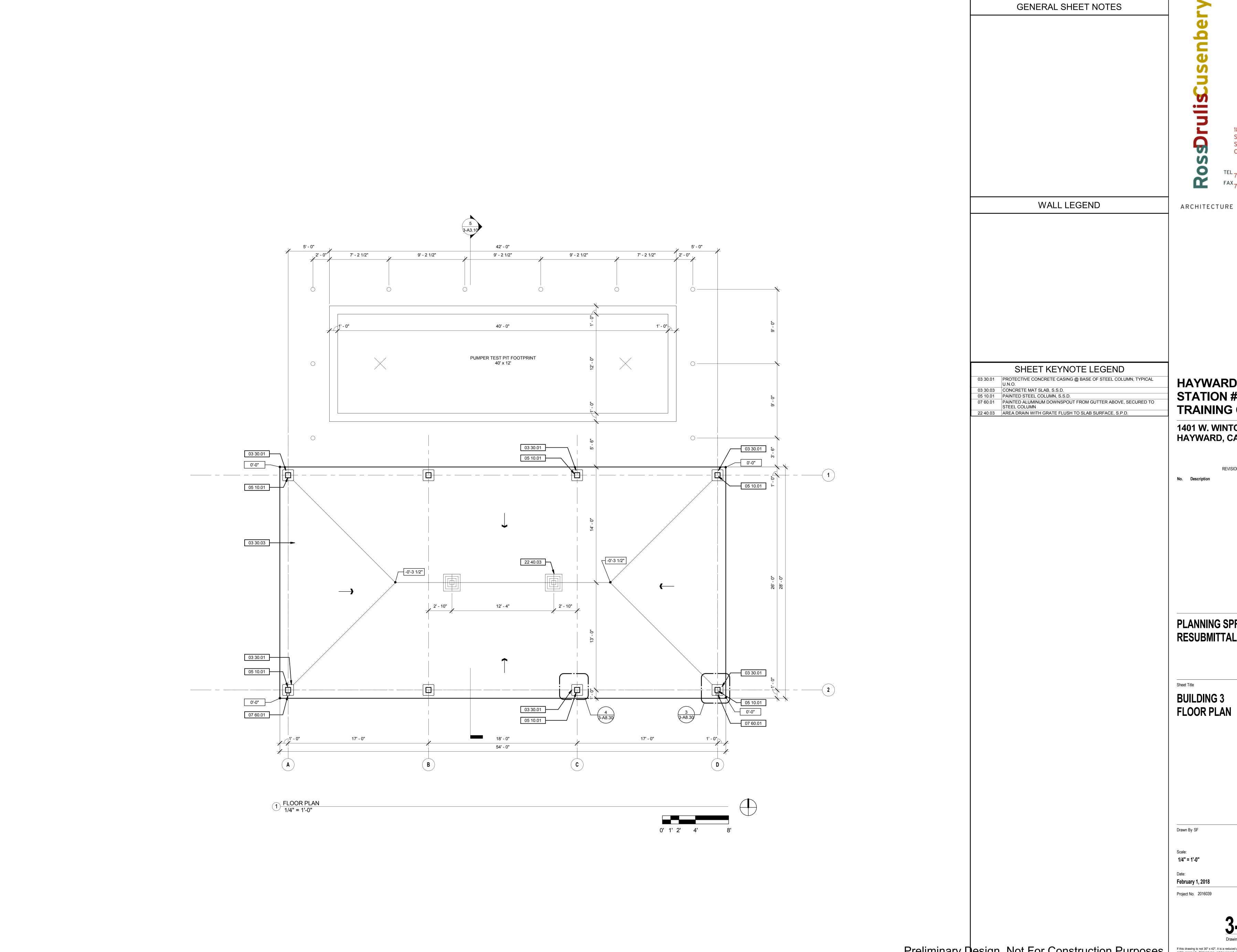
Checked By: EW Drawn By: EW

1/8" = 1'-0"

February 1, 2018

Project No. 2016039

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PLANNING SPR RESUBMITTAL

BUILDING 3 FLOOR PLAN

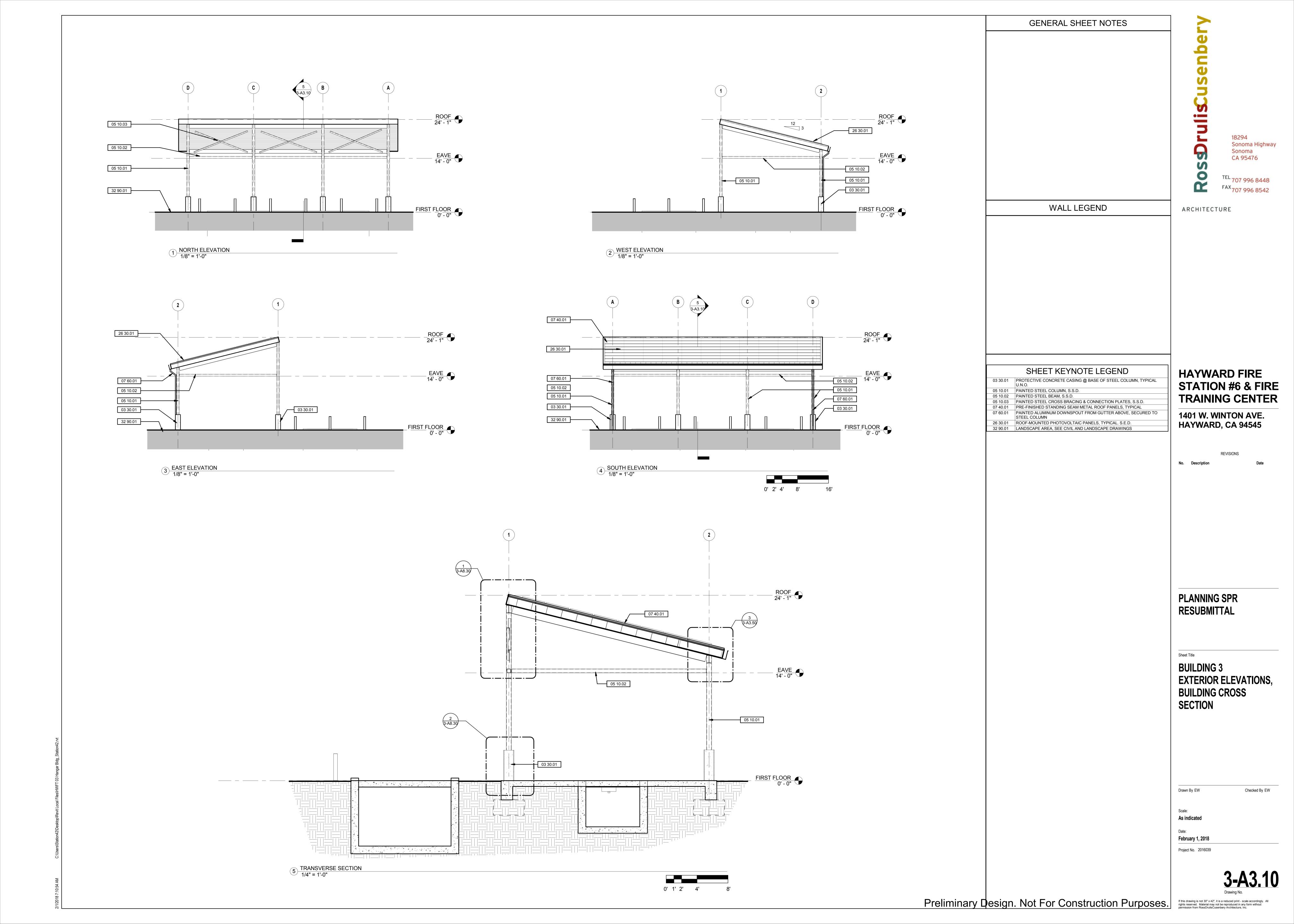
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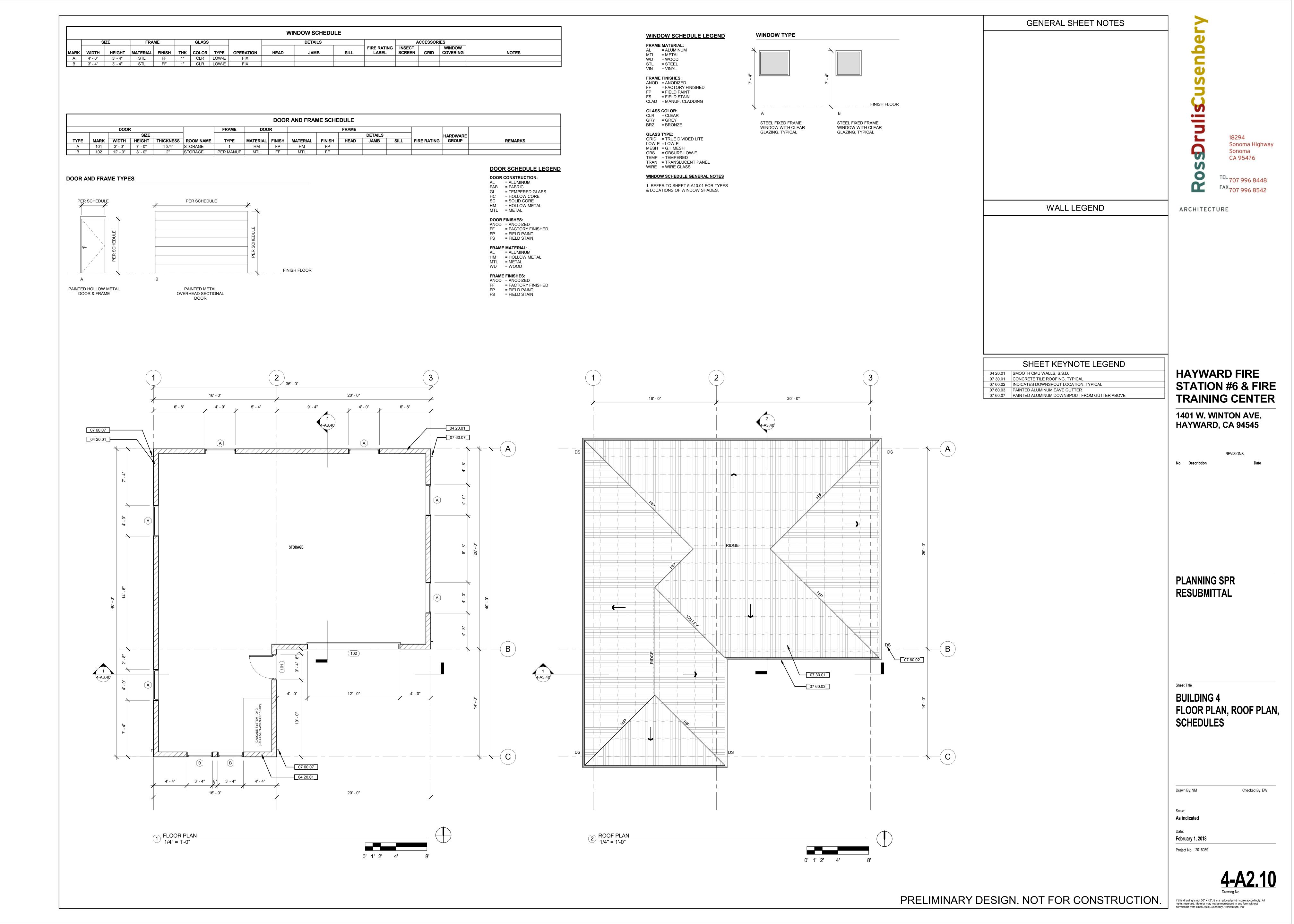
February 1, 2018 Project No. 2016039

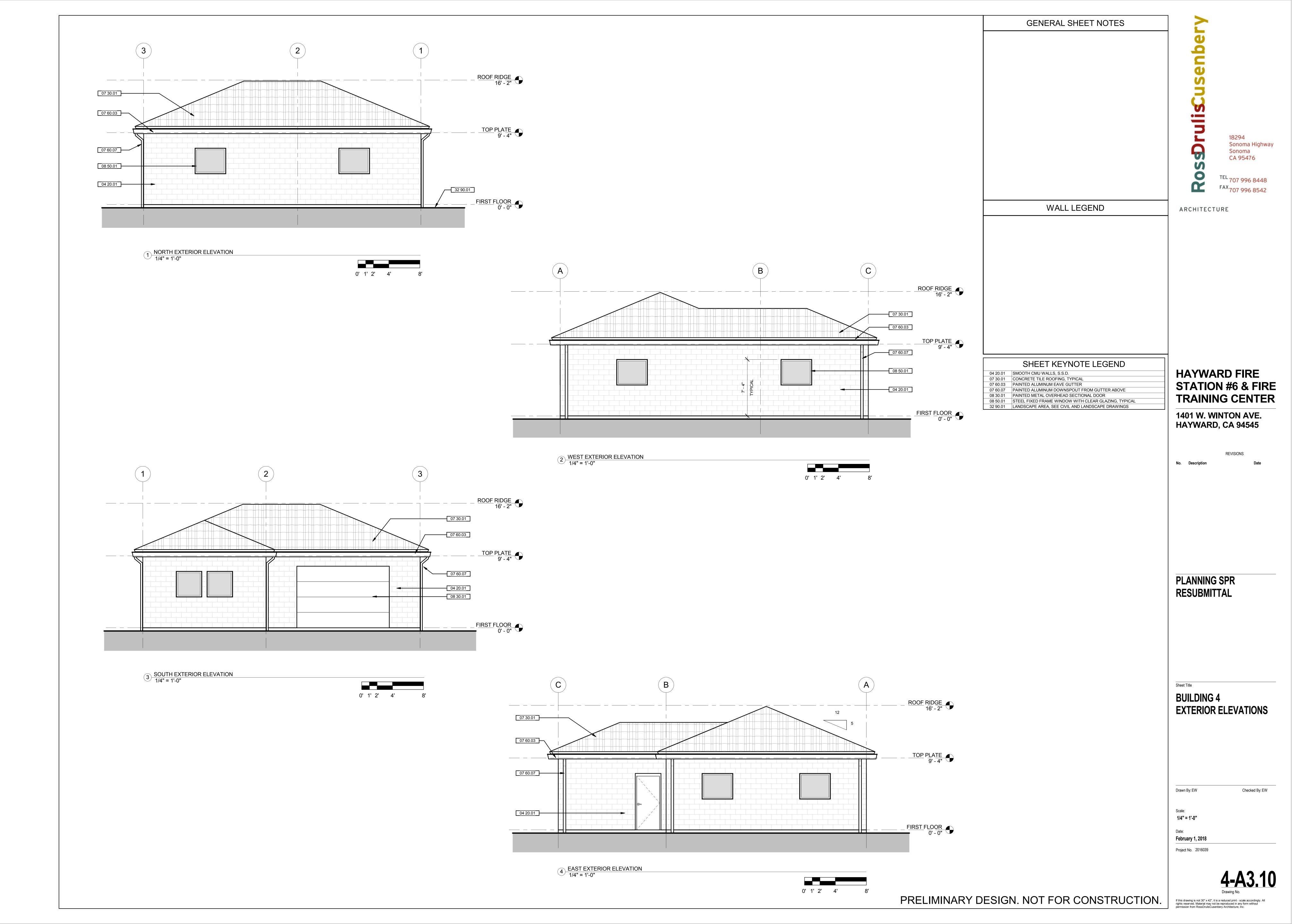
3-A2.10

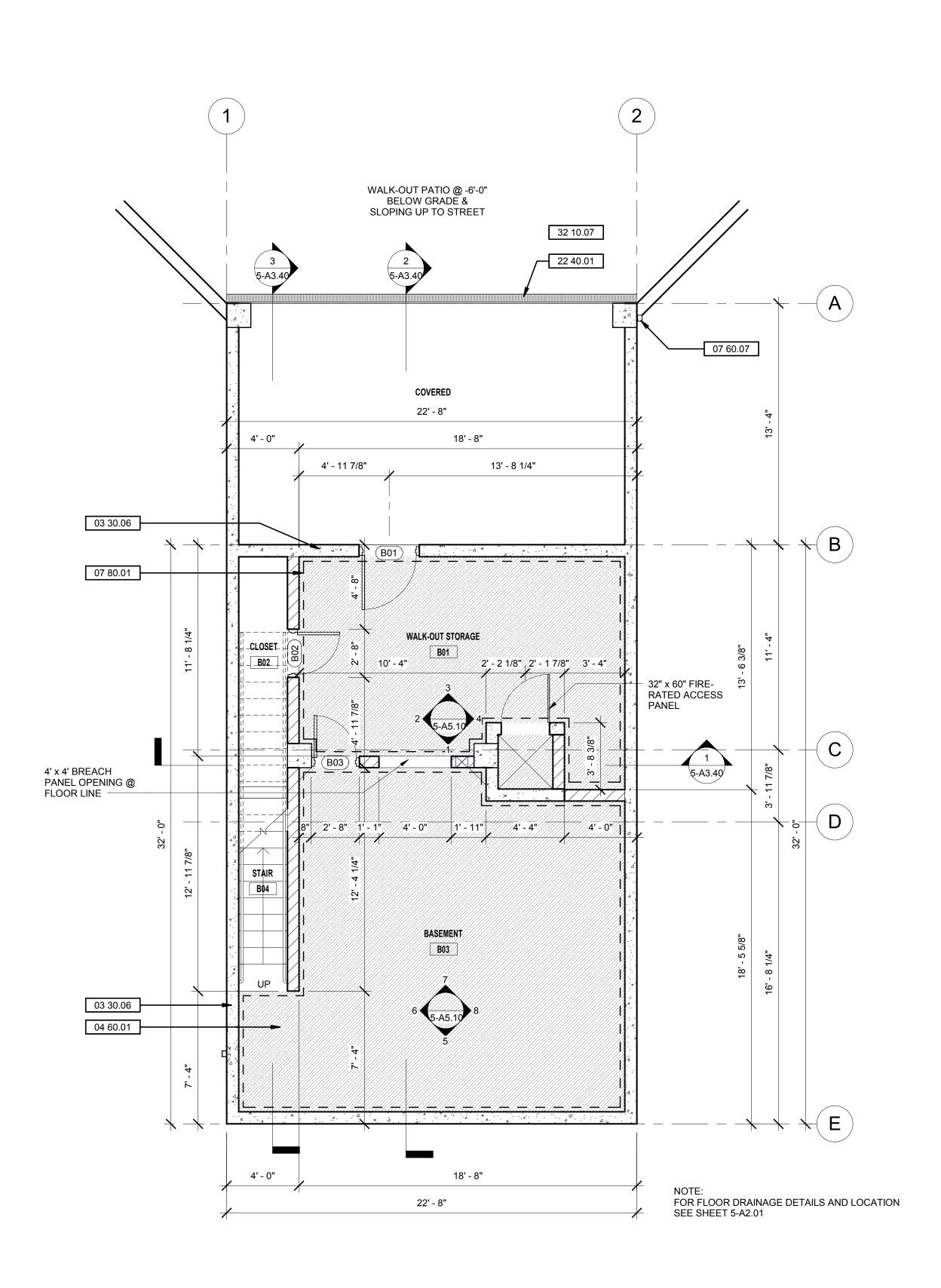
Preliminary Design. Not For Construction Purposes.

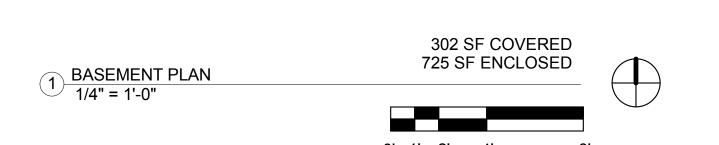
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ARCHITECTURE

SHEET KEYNOTE LEGEND

WALL LEGEND

03 30.06 CAST-IN-PLACE (CIP) CONCRETE WALLS AT EXTERIOR OF BASEMENT LEVEL, TYPICAL 04 60.01 SHADING INDICATES AREA OF FIRE BRICK FLOORING, TYPICAL 04 60.01 SHADING INDICATES AREA OF FIRE BRICK FLOORING, TYPICAL
07 60.07 PAINTED ALUMINUM DOWNSPOUT FROM GUTTER ABOVE
07 80.01 DASHED LINES DELINEATE AREAS OF THERMAL LINING ("SUPER PADGENITE HD" BY WHP TRAININGTOWERS OR SIMILAR) AT WALLS, TYPICAL
22 40.01 PREMANUFACTURED TRENCH DRAIN WITH GALVANIZED STEEL FRAME AND DUCTILE IRON GRATE, TYPICAL
32 10.07 PERMEABLE PAVERS ON SLOPED SURFACE DOWN TO BASEMENT, SEE BUILDING 5 DRAWINGS

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE HAYWARD, CA 94545

REVISIONS

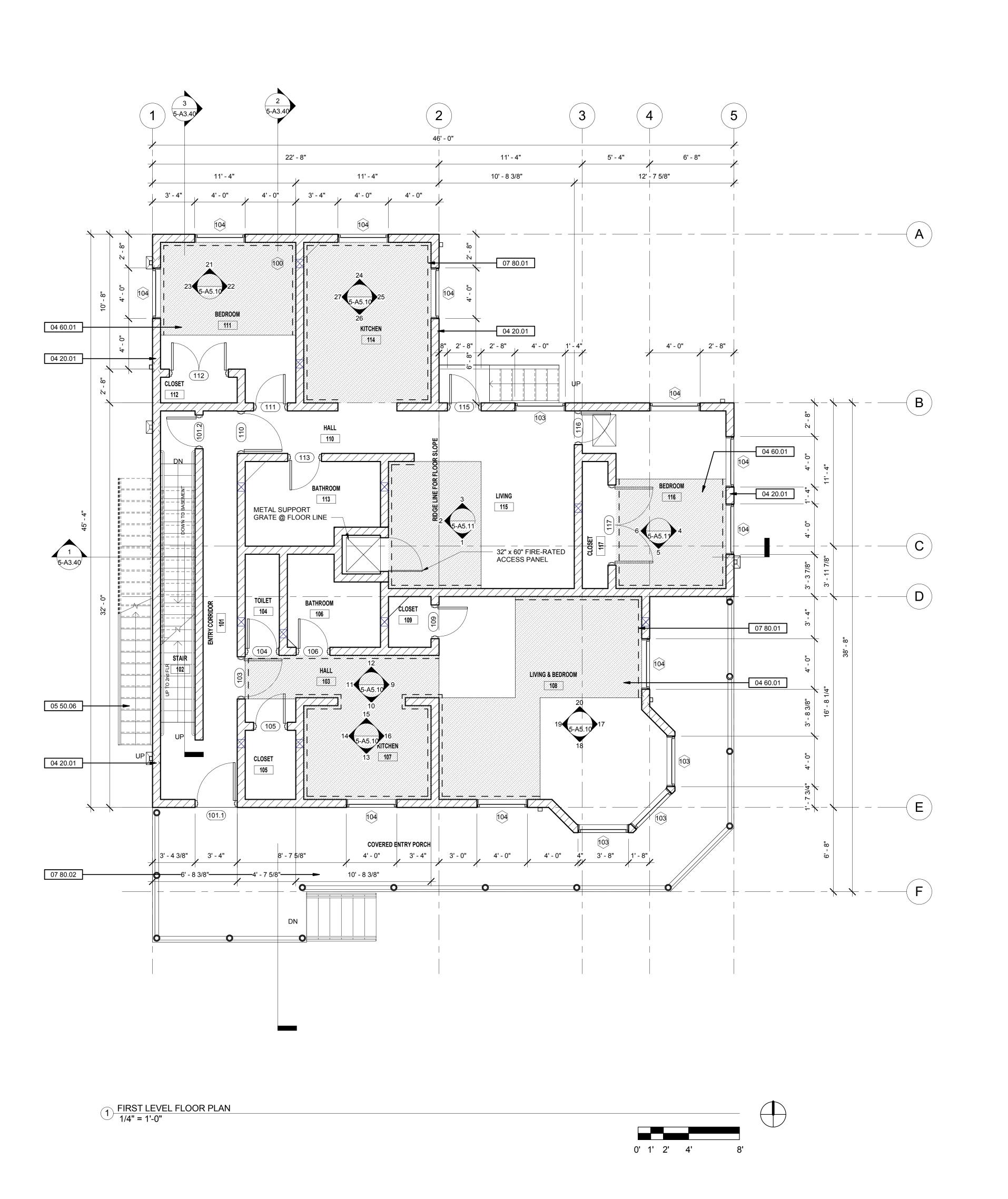
PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 5 BASEMENT FLOOR PLAN

Checked By EW

1/4" = 1'-0"



- DIAGRAMMATIC FURNITURE, CASEWORK, & PLUMBING FIXTURES ARE PROPS SHOWN AS SUGGESTED ITEMS TO ENHANCE THE OVERALL RESIDENTIAL FIRE-FIGHTING SIMULATION EXPERIENCE. THEY ARE NOT INTENDED TO INDICATE ACTUAL FURNITURE OR FIXTURES.
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WALL LEGEND

3. FOR DRAINAGE LOCATION AND DETAILS SEE DWG. A2.21.

Sonoma Highway Sonoma CA 95476

TEL 707 996 8448

ARCHITECTURE

SHEET KEYNOTE LEGEND

04 20.01 SMOOTH CMU WALLS, S.S.D. 04 60.01 SHADING INDICATES AREA OF FIRE BRICK FLOORING, TYPICAL 05 50.06 METAL EMERGENCY FIRE ESCAPE PLATFORM WITH PERMANENT STAIR

07 80.01 DASHED LINES DELINEATE AREAS OF THERMAL LINING ("SUPER PADGENITE HD" BY WHP TRAININGTOWERS OR SIMILAR) AT WALLS, TYPICAL

SHADING INDICATES AREAS OF THERMAL LINING ("SUPER PADGENITE HD" BY WHP TRAININGTOWERS OR SIMILAR) AT CEILING, TYPICAL

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PLANNING SPR RESUBMITTAL

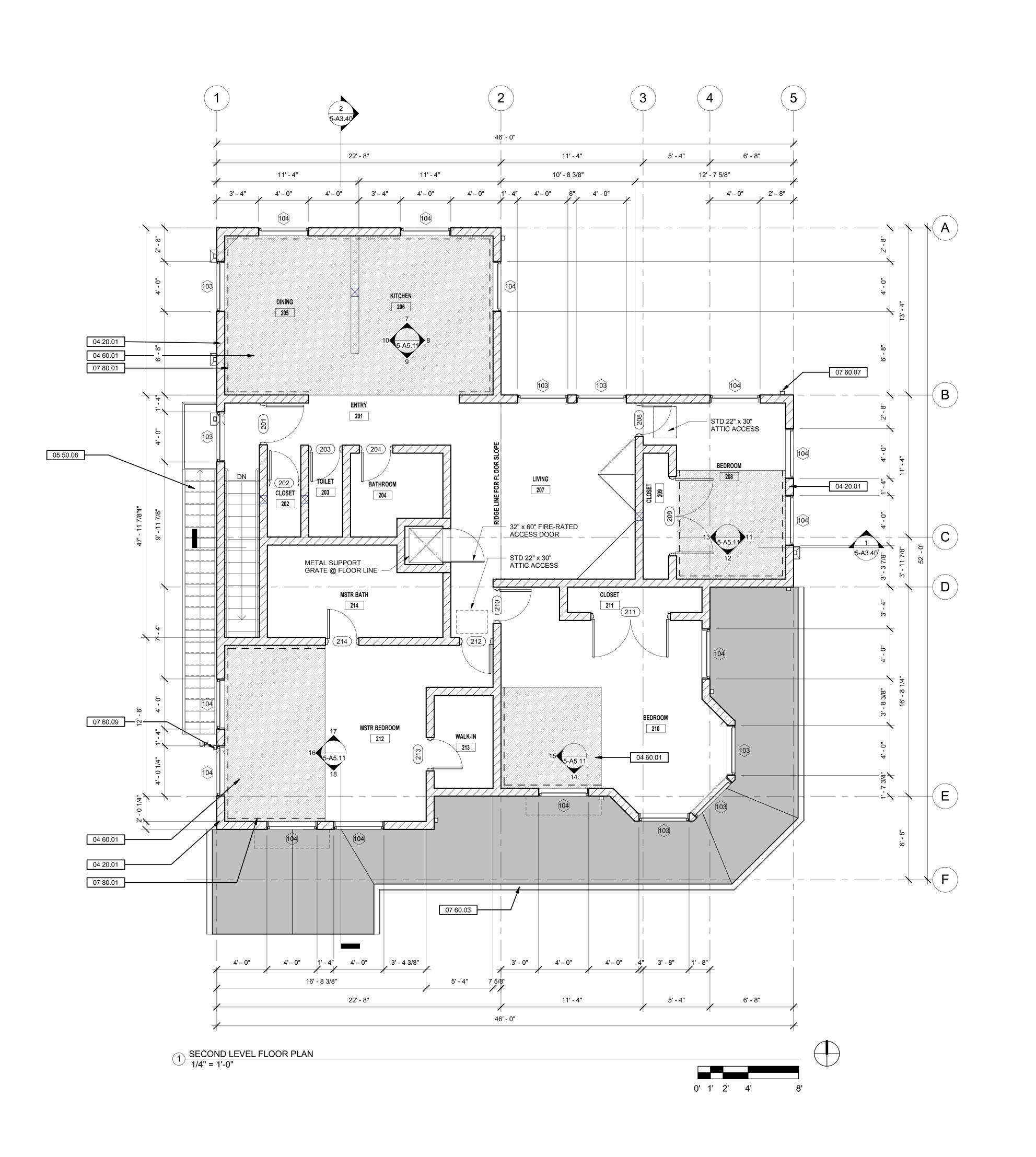
BUILDING 5 FIRST LEVEL FLOOR **PLAN**

Checked By EW

1/4" = 1'-0"

February 1, 2018 Project No. 2016039

5-A2.10



- DIAGRAMMATIC FURNITURE, CASEWORK, & PLUMBING FIXTURES ARE PROPS SHOWN AS SUGGESTED ITEMS TO ENHANCE THE OVERALL RESIDENTIAL FIRE-FIGHTING SIMULATION EXPERIENCE. THEY ARE NOT INTENDED TO INDICATE ACTUAL FURNITURE OR FIXTURES.
- THIS STRUCTURE IS A NON-OCCUPIED STRUCTURE USED FOR THE SOLE PURPOSE OF TRAINING ABLE-BODIED FIRE DEPARTMENT AND LAW ENFORCEMENT PERSONNEL. THIS STRUCTURE IS NOT DESIGNED TO ACCOMODATE THE GENERAL PUBLIC AND AS SUCH IS NOT DESIGNED IN CONFORMANCE WITH ACCESS AND BUILDING CODES FOR CIRCULATION, EXITING, OR LIFE SAFETY.
- 3. FOR DRAINAGE LOCATION AND DETAILS SEE DWG. A2.21.

0

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Sonoma Highway

Sonoma

WALL LEGEND ARCHITECTURE

SHEET KEYNOTE LEGEND

- 04 20.01 SMOOTH CMU WALLS, S.S.D.

- 04 20.01 SMOOTH CMU WALLS, S.S.D.
 04 60.01 SHADING INDICATES AREA OF FIRE BRICK FLOORING, TYPICAL
 05 30 METAL DECKING
 05 50.06 METAL EMERGENCY FIRE ESCAPE PLATFORM WITH PERMANENT STAIR
 07 60.03 PAINTED ALUMINUM EAVE GUTTER
 07 60.07 PAINTED ALUMINUM DOWNSPOUT FROM GUTTER ABOVE
 07 60.09 ROOF SCUPPER THROUGH WALL WITH DOWNSPOUT
- 07 80.01 DASHED LINES DELINEATE AREAS OF THERMAL LINING ("SUPER PADGENITHD" BY WHP TRAININGTOWERS OR SIMILAR) AT WALLS, TYPICAL

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE HAYWARD, CA 94545

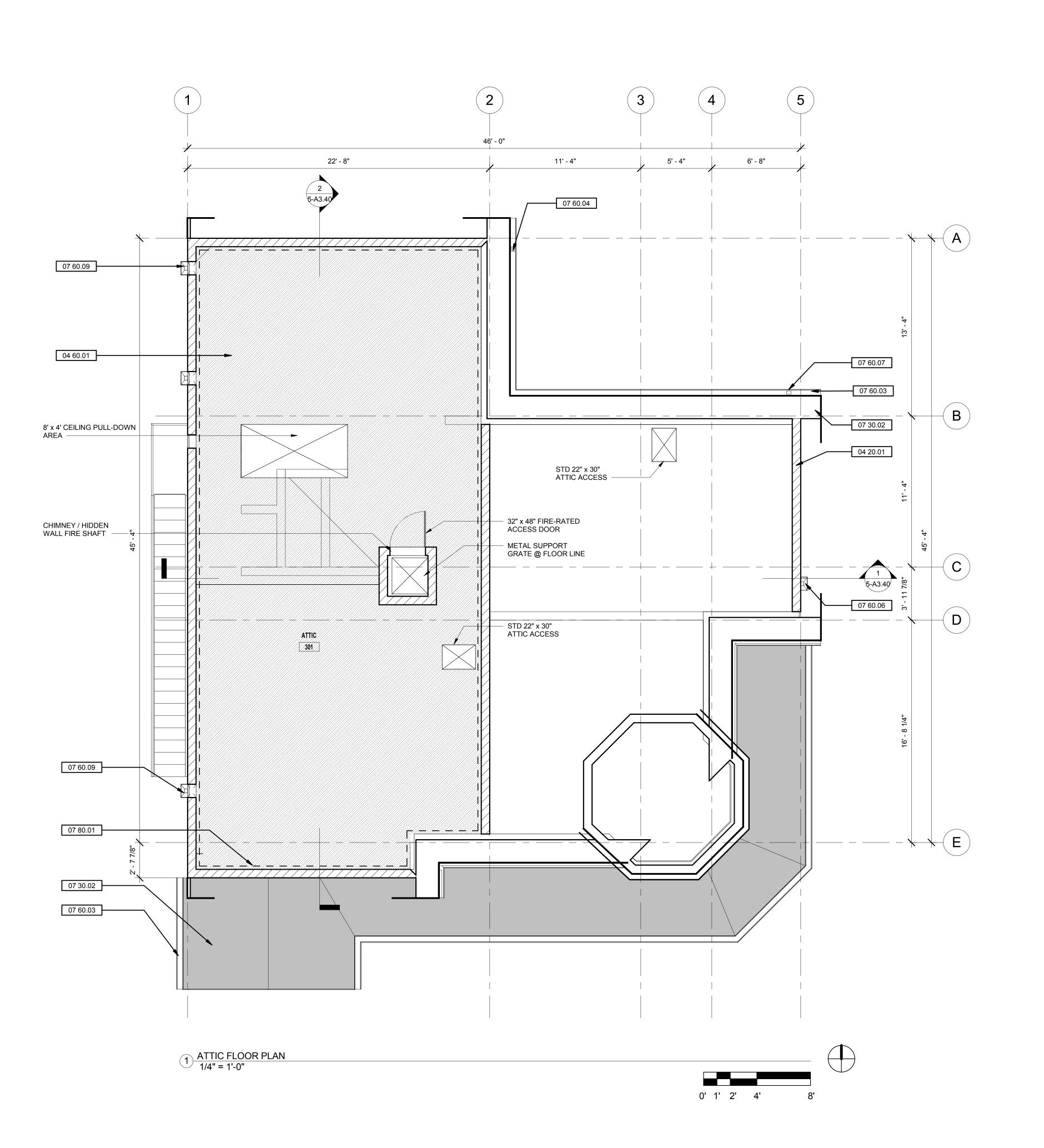
REVISIONS

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 5 SECOND LEVEL FLOOR **PLAN**

1/4" = 1'-0"



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- 3. FOR DRAINAGE LOCATION AND DETAILS SEE DWG. A2.21.

Sonoma Highway Sonoma CA 95476

WALL LEGEND ARCHITECTURE

SHEET KEYNOTE LEGEND

- 04 20.01 SMOOTH CMU WALLS, S.S.D.

- 04 20.01 SMOOTH CMU WALLS, S.S.D.

 04 60.01 SHADING INDICATES AREA OF FIRE BRICK FLOORING, TYPICAL

 07 30.02 FIBERGLASS COMPOSITION SHINGLE ROOFING

 07 60.03 PAINTED ALUMINUM EAVE GUTTER

 07 60.04 PAINTED ALUMINUM FASCIA TRIM

 07 60.06 ALUMINUM DOWNSPOUT WITH COLLECTOR HEAD AT CLEAN-OUT SCUPPER LOCATION, TYPICAL
- 07 60.07 PAINTED ALUMINUM DOWNSPOUT FROM GUTTER ABOVE
- 07 60.09 ROOF SCUPPER THROUGH WALL WITH DOWNSPOUT

 07 80.01 DASHED LINES DELINEATE AREAS OF THERMAL LINING ("SUPER PADGENIT HD" BY WHP TRAININGTOWERS OR SIMILAR) AT WALLS, TYPICAL

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE HAYWARD, CA 94545

REVISIONS

PLANNING SPR RESUBMITTAL

BUILDING 5 ATTIC PLAN

1/4" = 1'-0"

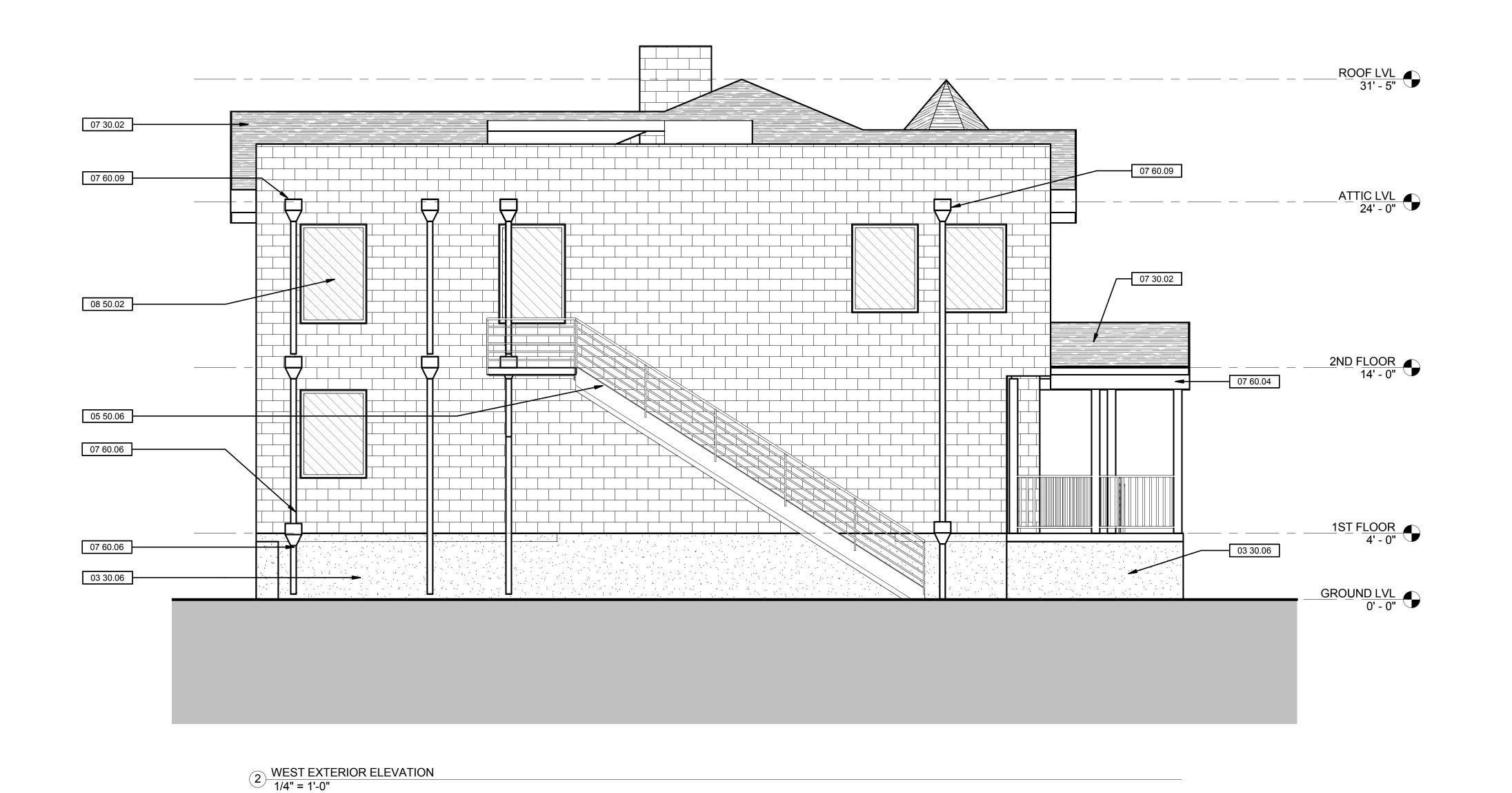
February 1, 2018 Project No. 2016039

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1) SOUTH EXTERIOR ELEVATION 1/4" = 1'-0"



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CONFORMANCE WITH ACCESS AND BUILDING CODES FOR CIRCULATION, EXITING,

ARCHITECTURE

Sonoma Highway

Sonoma CA 95476

WALL LEGEND

SHEET KEYNOTE LEGEND

03 30.06 CAST-IN-PLACE (CIP) CONCRETE WALLS AT EXTERIOR OF BASEMENT LEVEL, TYPICAL 04 20.01 SMOOTH CMU WALLS, S.S.D. 04 20.01 SMOOTH CMU WALLS, S.S.D.
05 50.06 METAL EMERGENCY FIRE ESCAPE PLATFORM WITH PERMANENT STAIR
07 30.02 FIBERGLASS COMPOSITION SHINGLE ROOFING
07 60.03 PAINTED ALUMINUM EAVE GUTTER
07 60.04 PAINTED ALUMINUM FASCIA TRIM
07 60.06 ALUMINUM DOWNSPOUT WITH COLLECTOR HEAD AT CLEAN-OUT SCUPPER LOCATION, TYPICAL
07 60.07 PAINTED ALUMINUM DOWNSPOUT FROM GUTTER ABOVE
07 60.09 ROOF SCUPPER THROUGH WALL WITH DOWNSPOUT
08 10.01 PAINTED HOLLOW METAL DOOR & FRAME
08 50.02 STEEL FRAME WINDOW OPENINGS WITH DOUBLE-ACTING HOLLOW METAL DOORS, TYPICAL

32 90.01 LANDSCAPE AREA, SEE CIVIL AND LANDSCAPE DRAWINGS

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE HAYWARD, CA 94545

REVISIONS

PLANNING SPR **RESUBMITTAL**

Sheet Title

BUILDING 5 EXTERIOR ELEVATIONS

Checked By EW

1/4" = 1'-0"





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^{TEL} 707 996 8448

ARCHITECTURE

SHEET KEYNOTE LEGEND

WALL LEGEND

04 20.01 SMOOTH CMU WALLS, S.S.D.
07 30.02 FIBERGLASS COMPOSITION SHINGLE ROOFING
07 60.03 PAINTED ALUMINUM EAVE GUTTER
07 60.04 PAINTED ALUMINUM FASCIA TRIM
07 60.06 ALUMINUM DOWNSPOUT WITH COLLECTOR HEAD AT CLEAN-OUT SCUPPER LOCATION, TYPICAL

07 60.07 PAINTED ALUMINUM DOWNSPOUT FROM GUTTER ABOVE
08 50.02 STEEL FRAME WINDOW OPENINGS WITH DOUBLE-ACTING HOLLOW METAL DOORS, TYPICAL

1401 W. WINTON AVE

HAYWARD, CA 94545

HAYWARD FIRE

STATION #6 & FIRE

TRAINING CENTER

REVISIONS

PLANNING SPR RESUBMITTAL

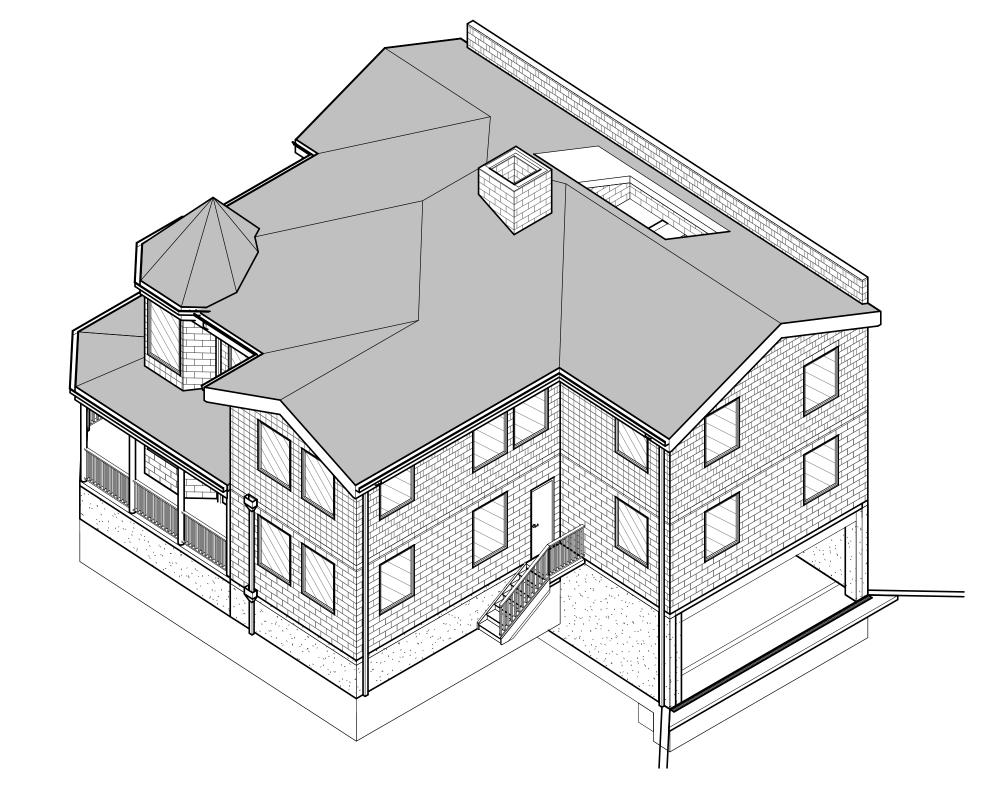
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BUILDING 5 EXTERIOR ELEVATIONS

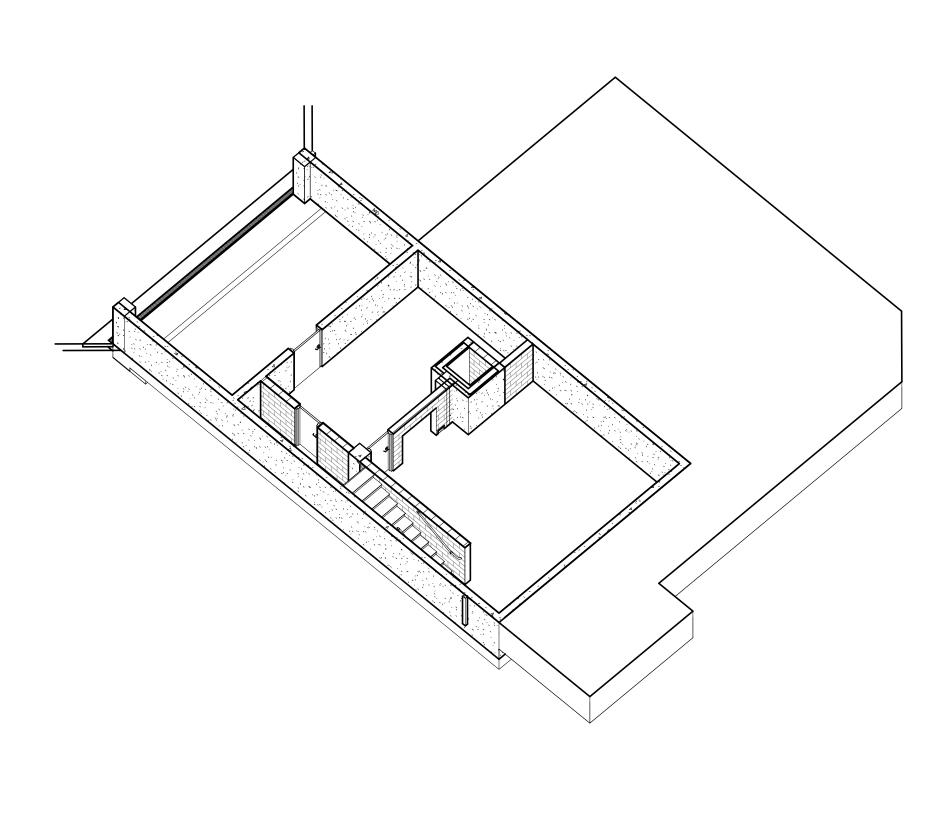
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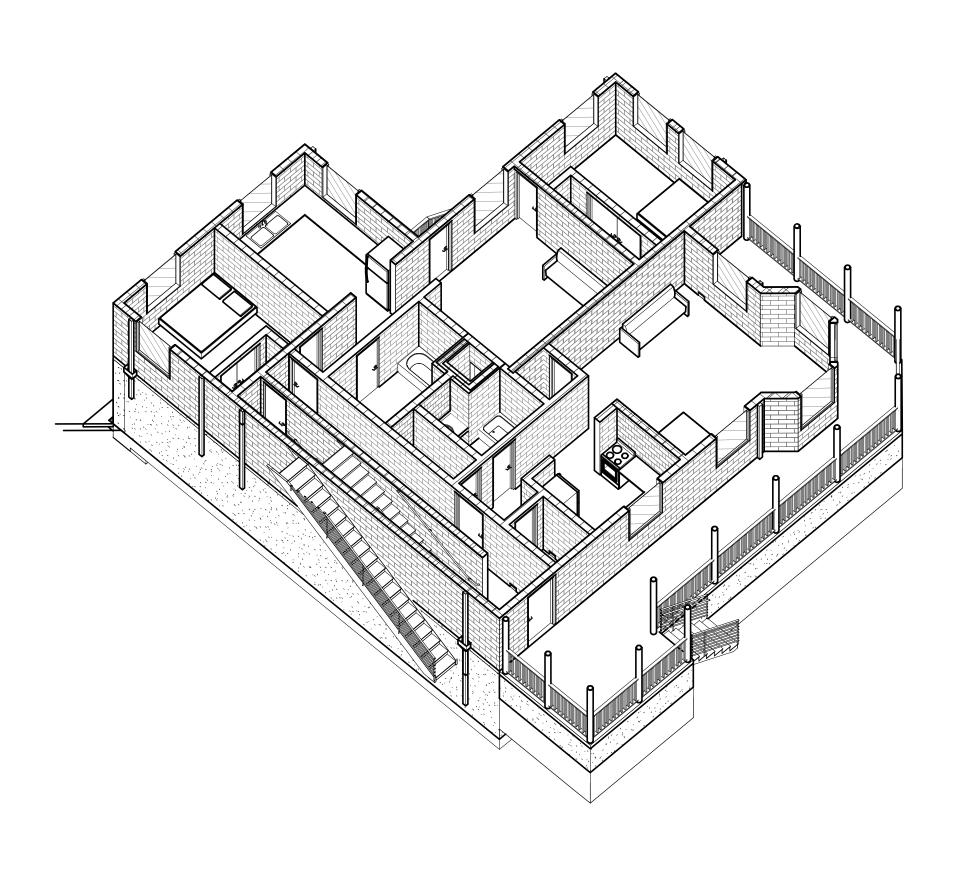
4 SOUTHWEST AXONOMETRIC



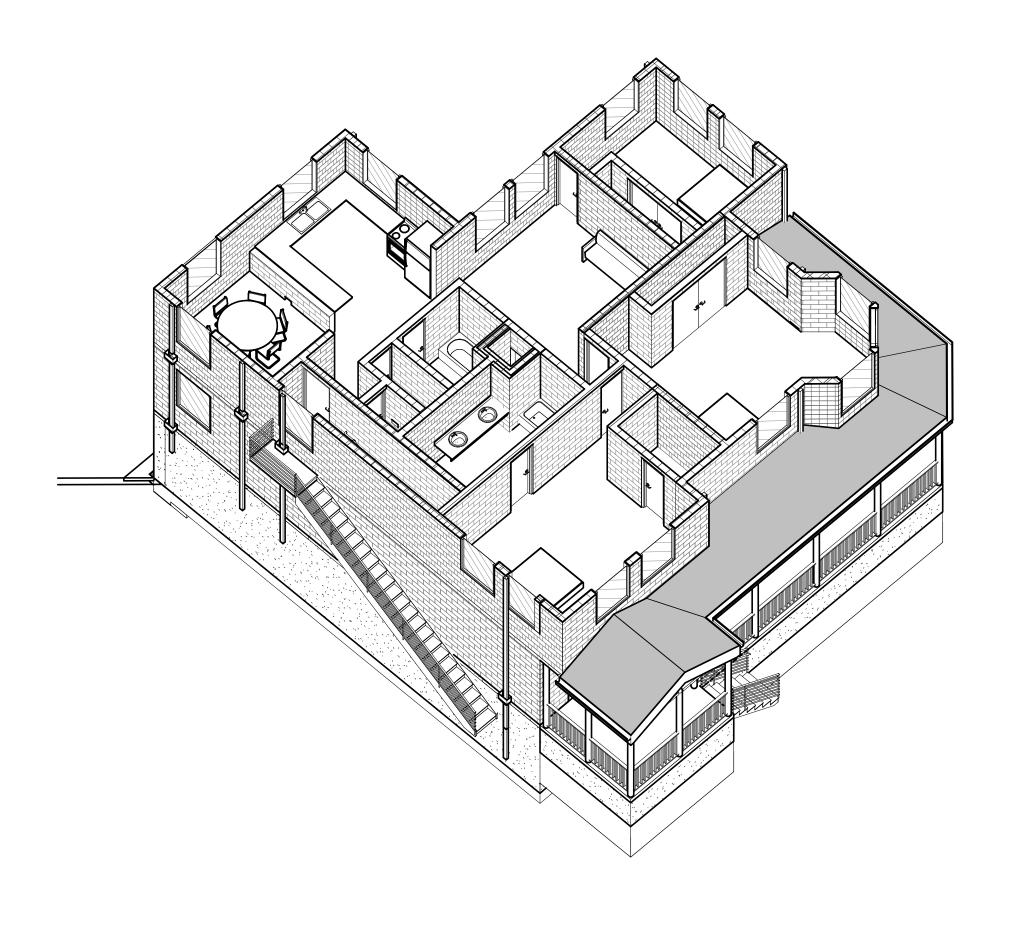
5 NORTHEAST AXONOMETRIC



1 BASEMENT AXONOMETRIC



2 FIRST FLOOR AXONOMETRIC



3 SECOND FLOOR AXONOMETRIC

ARCHITECTURE

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE HAYWARD, CA 94545

PLANNING SPR RESUBMITTAL

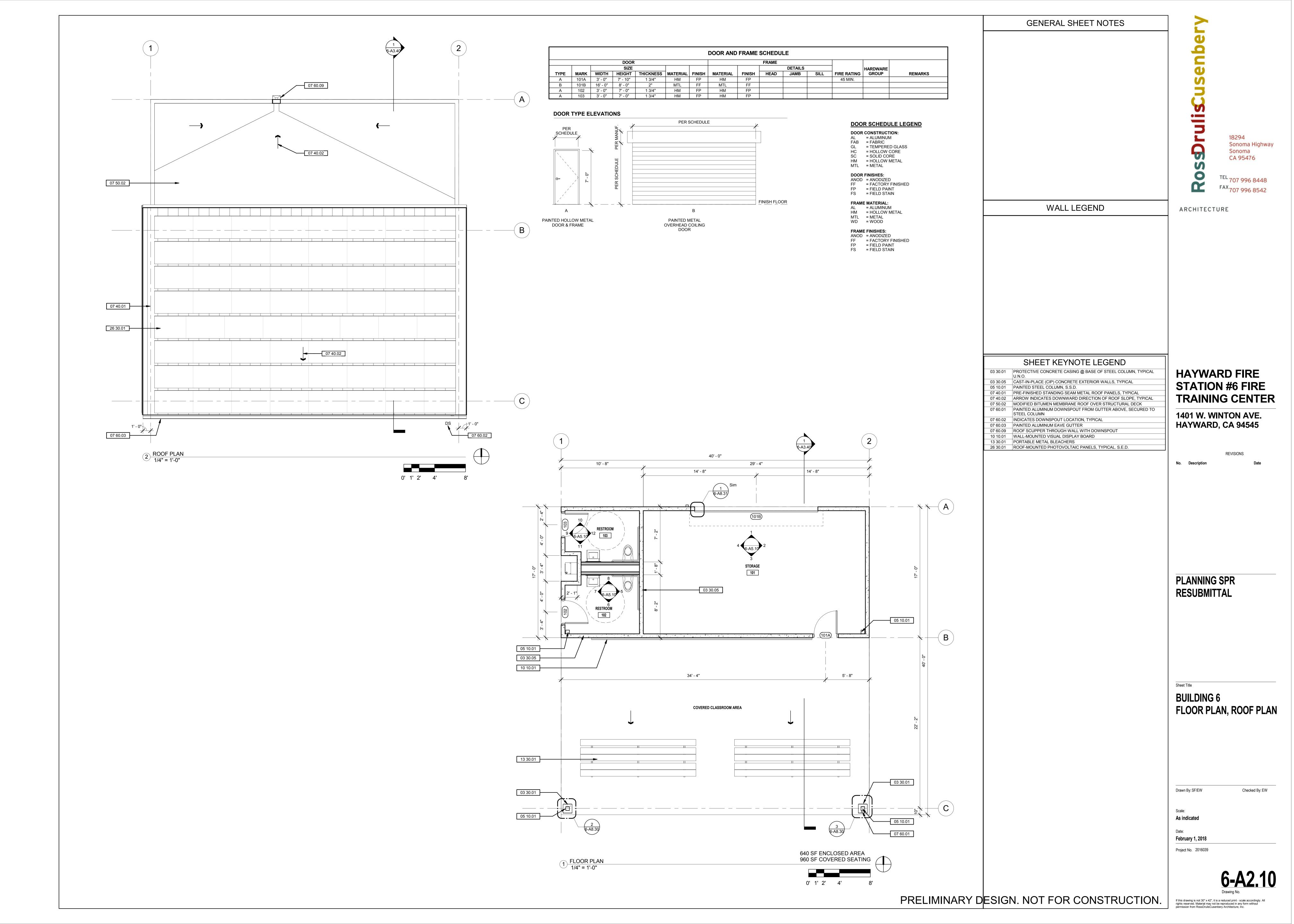
BUILDING 5 AXONOMETRIC VIEWS

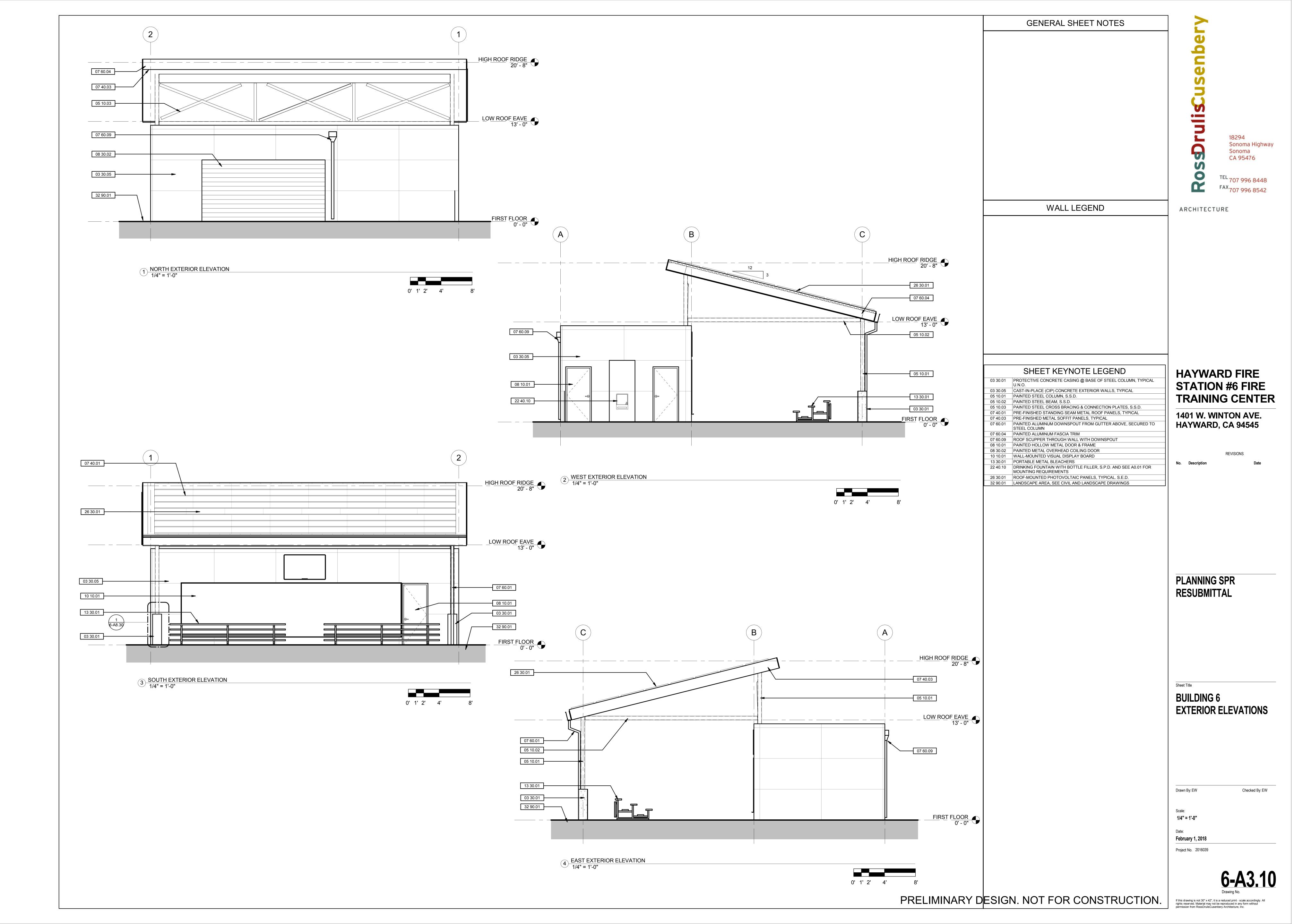
Drawn By NM

Checked By EW

Project No. 2016039

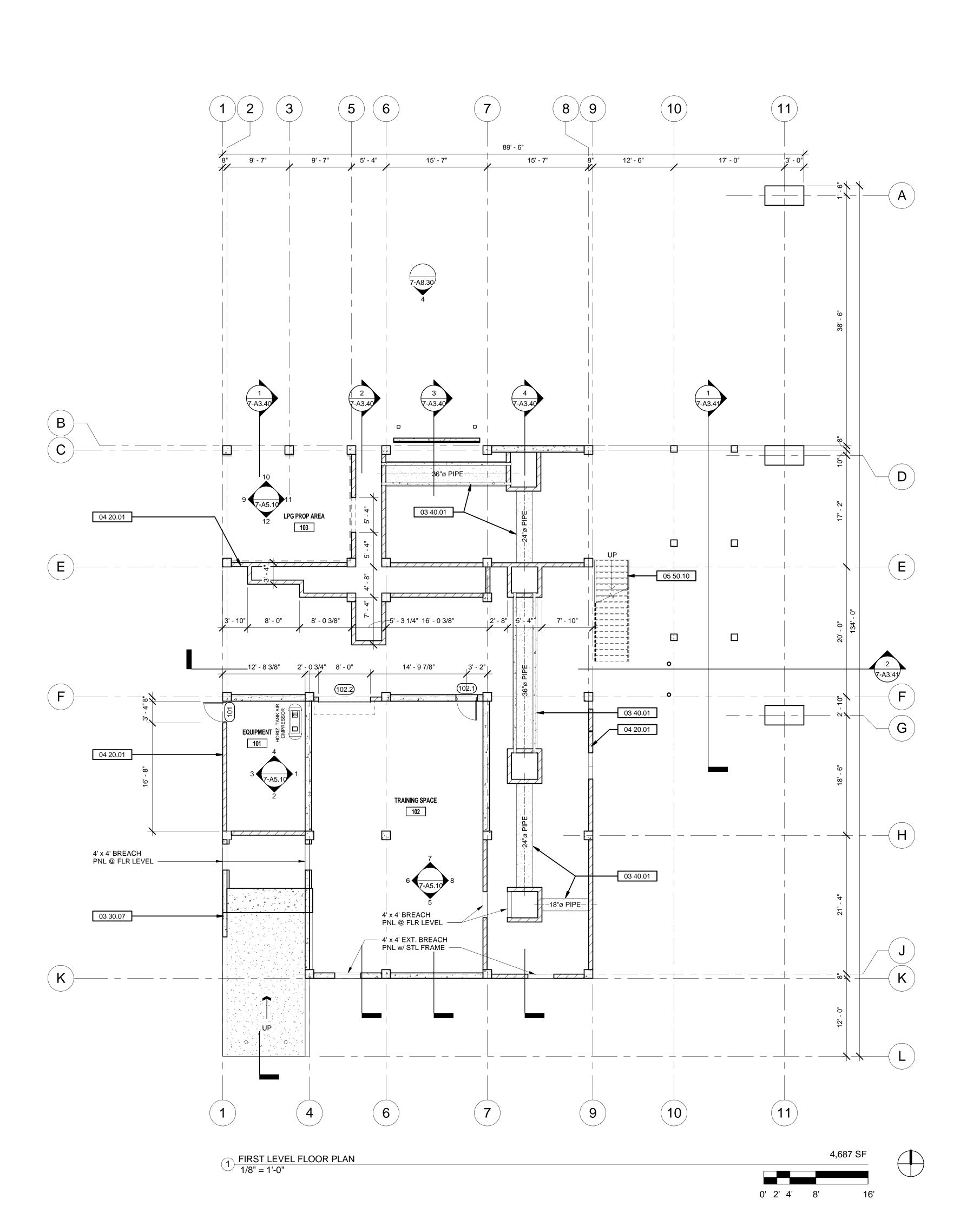
February 1, 2018

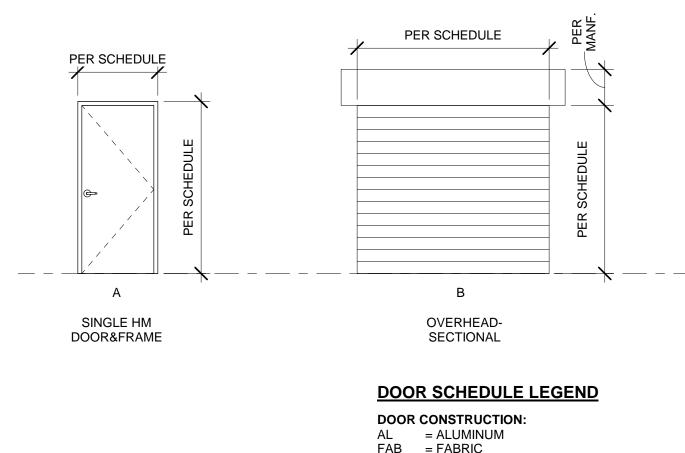




	DOOR AND FRAME SCHEDULE														
DOOR			DOOR					FRAME							
]	SIZE					DETAILS				1	HARDWARE		
TYPE	MARK	ROOM NAME	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB	SILL	FIRE RATING	GROUP	REMARKS
А	101	EQUIPMENT	3' - 0"	7' - 0"	1 3/4"	HM	FP	HM	FP						
Α	102.1	TRAINING SPACE	3' - 0"	7' - 0"	1 3/4"	НМ	FP	НМ	FP						
В	1	TRAINING SPACE	8' - 0"	7' - 0"	2"	MTL	FF	MTL	FF						

DOOR TYPE ELEVATIONS





DOOR CONSTRUCTION:

AL = ALUMINUM
FAB = FABRIC
GL = TEMPERED GLASS
HC = HOLLOW CORE
SC = SOLID CORE
HM = HOLLOW METAL
MTL = METAL

DOOR FINISHES:
ANOD = ANODIZED
FF = FACTORY FINISHED
FP = FIELD PAINT
FS = FIELD STAIN

FRAME MATERIAL:
AL = ALUMINUM
HM = HOLLOW METAL
MTL = METAL

WD = WOOD

FRAME FINISHES:

ANOD = ANODIZED

FF = FACTORY FINISHED

FP = FIELD PAINT

FS = FIELD STAIN

GENERAL SHEET NOTES

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WALL LEGEND

SHEET KEYNOTE LEGEND

03 30.07 CAST-IN-PLACE CONCRETE WALL, S.S.D.

03 40.01 HORIZONTAL PRECAST CONCRETE PIPE IN NOTED DIAMETER TO PENETRATE THROUGH CMU WALL AT EACH END

04 20.01 SMOOTH CMU WALLS, S.S.D.

05 50.10 PRE-ENGINEERED AND FABRICATED METAL STAIR WITH HANDRAIL EACH SIDE

ossDruliscusenber

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ARCHITECTURE

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

ATTIAND, OA 34040

REVISIONS

No. Description Date

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 7

FIRST FLOOR PLAN

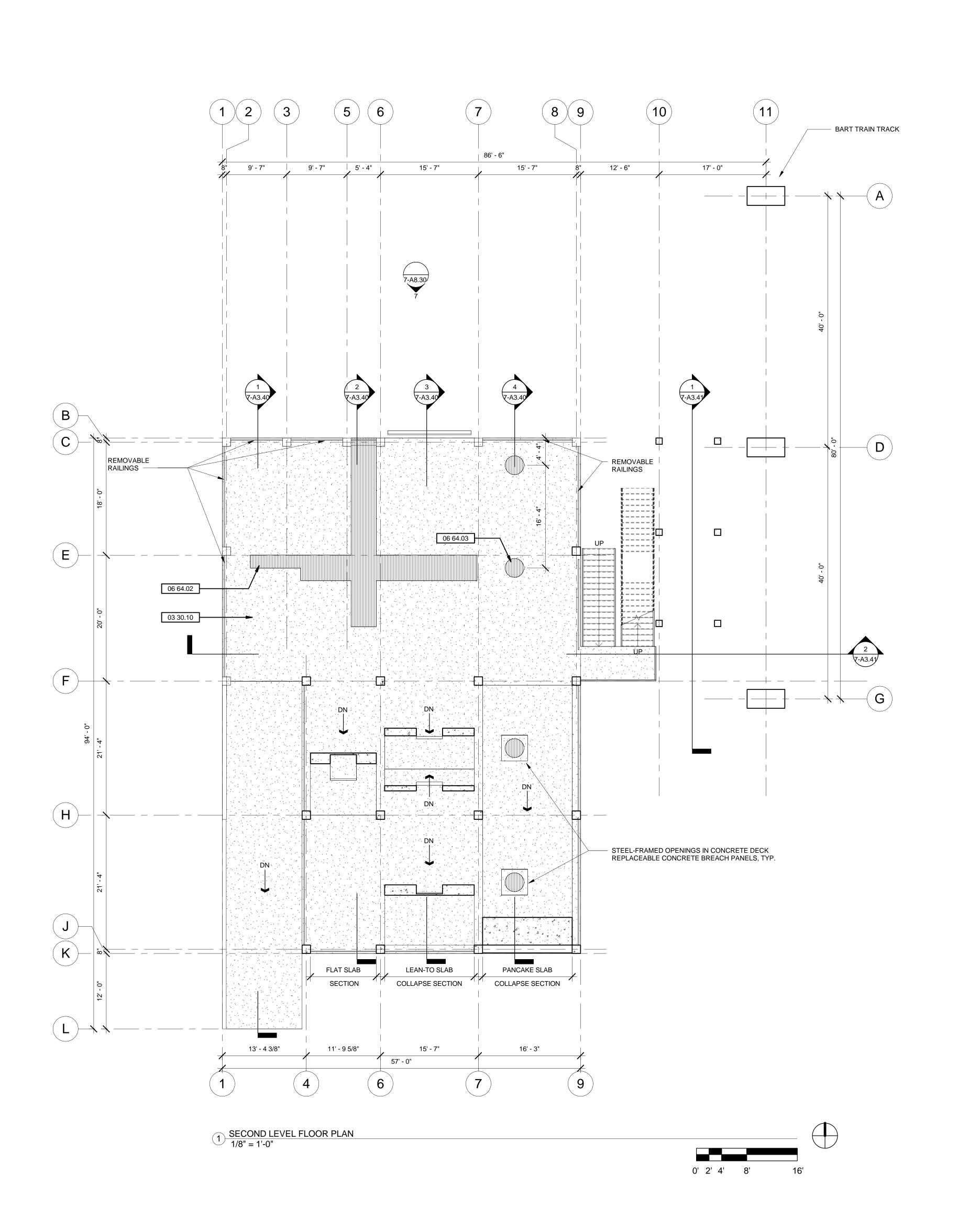
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Scale:
As indicated

February 1, 2018

Project No. 2016039

7-A2.10



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WALL LEGEND

ARCHITECTURE

SHEET KEYNOTE LEGEND

03 30.10 CONCRETE FLOOR SLAB, S.S.D.
03 30.11 CAST-IN-PLACE CONCRETE COLUMN, S.S.D.
06 64.02 REMOVEABLE FIBERGLASS GRATE SECTIONS ON STEEL ANGLE SUPPORT LEDGER 06 64.03 36-INCH DIAMETER REMOVEABLE FIBERGLASS GRATE SECTION CENTERED ON CHASE BELOW

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

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REVISIONS

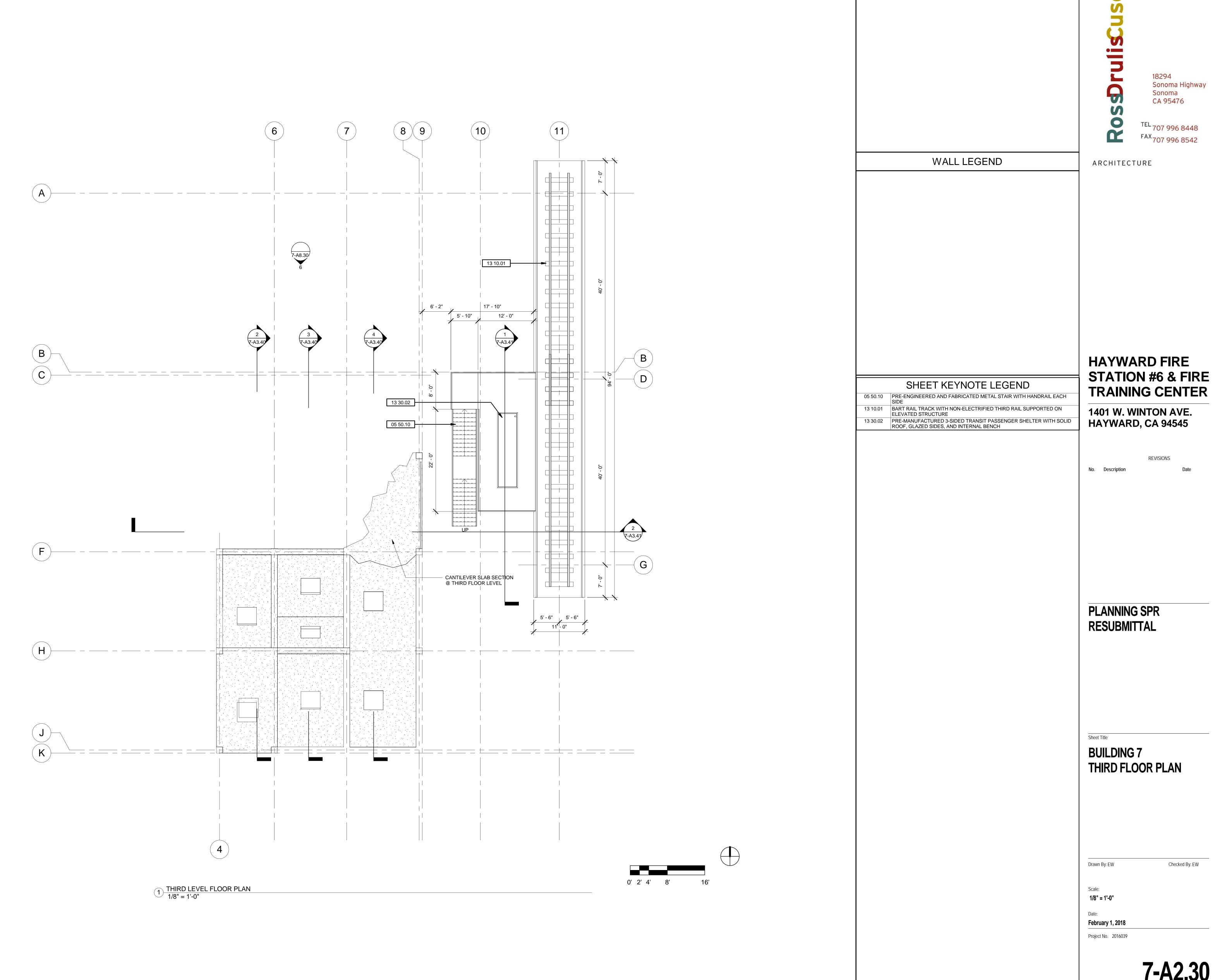
No. Description

PLANNING SPR RESUBMITTAL

BUILDING 7 SECOND FLOOR PLAN

Drawn By: EW Checked By: EW

1/8" = 1'-0"



PRELIMINARY DESIGN. NOT FOR CONSTRUCTION.

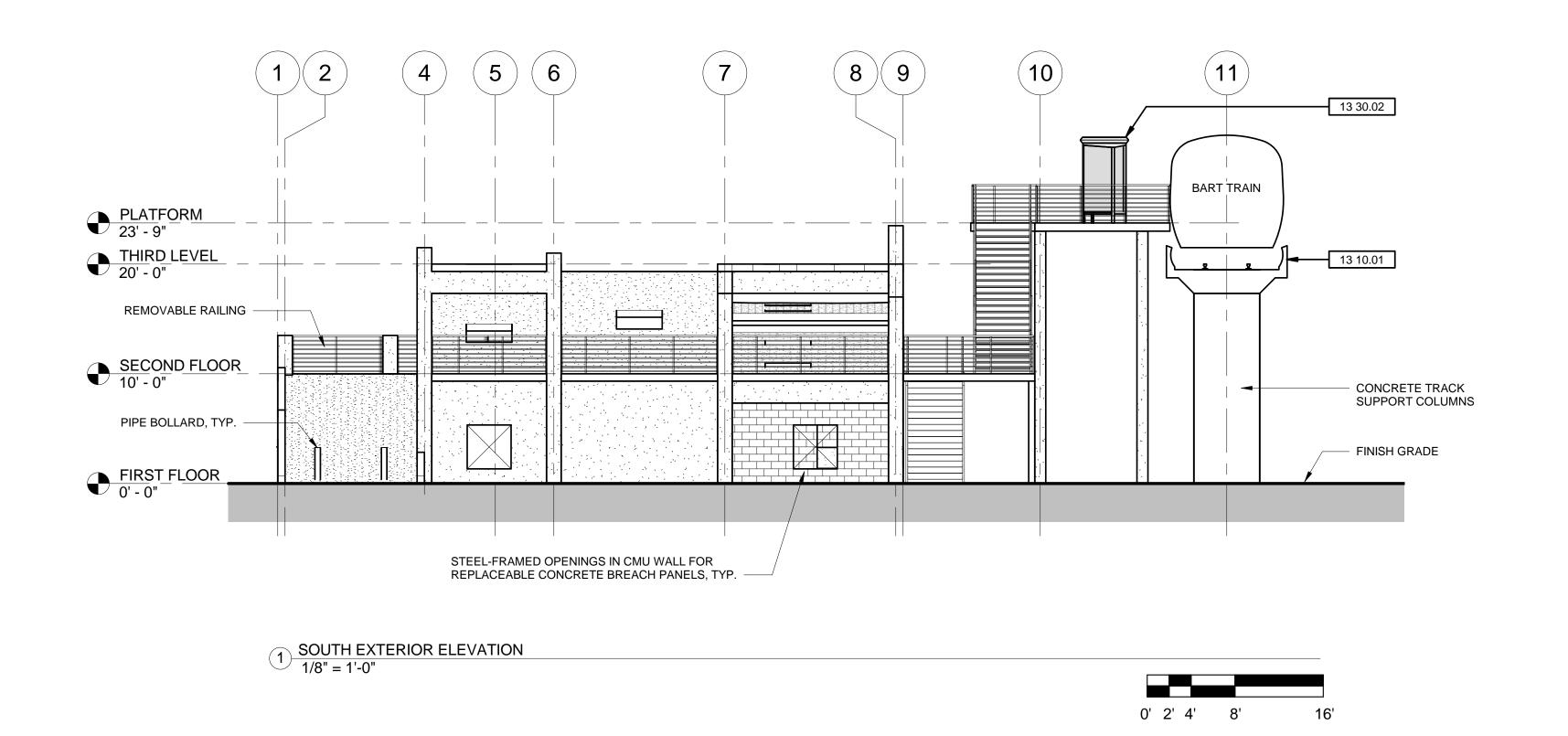
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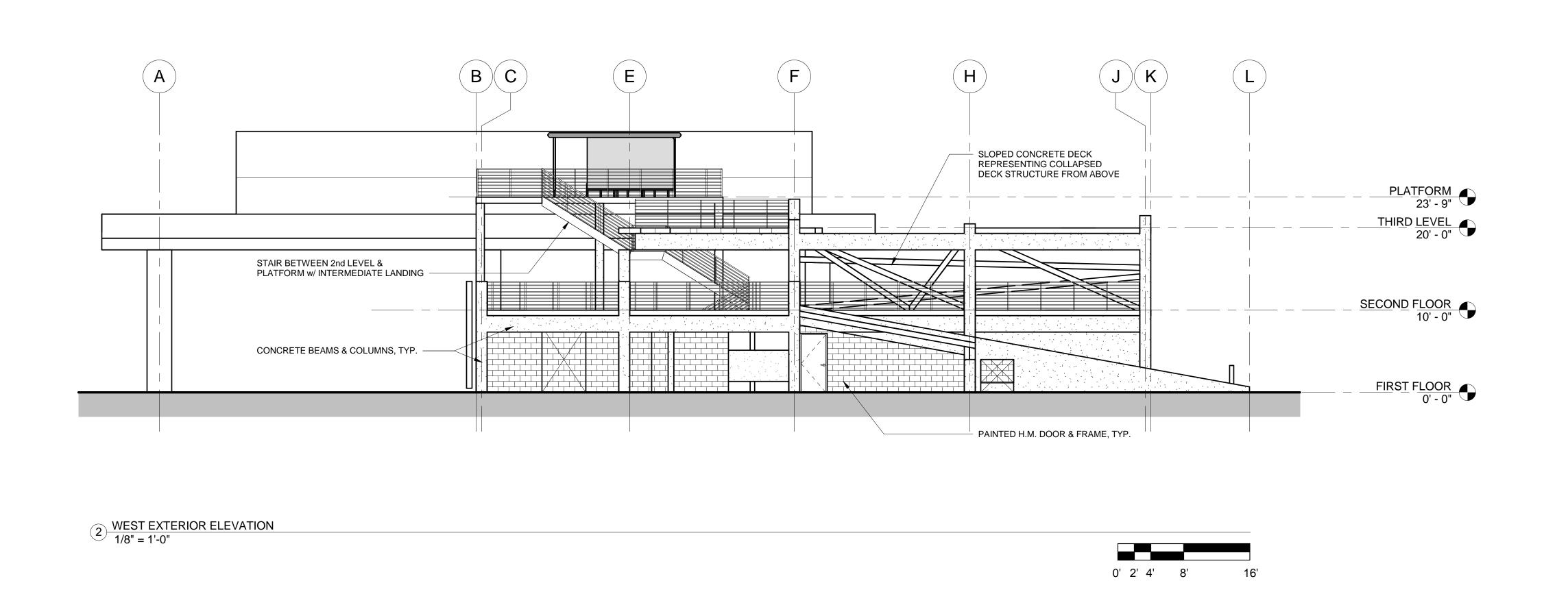
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WALL LEGEND

ARCHITECTURE

SHEET KEYNOTE LEGEND 13 10.01 BART RAIL TRACK WITH NON-ELECTRIFIED THIRD RAIL SUPPORTED ON ELEVATED STRUCTURE

13 30.02 PRE-MANUFACTURED 3-SIDED TRANSIT PASSENGER SHELTER WITH SOLID ROOF, GLAZED SIDES, AND INTERNAL BENCH

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS No. Description

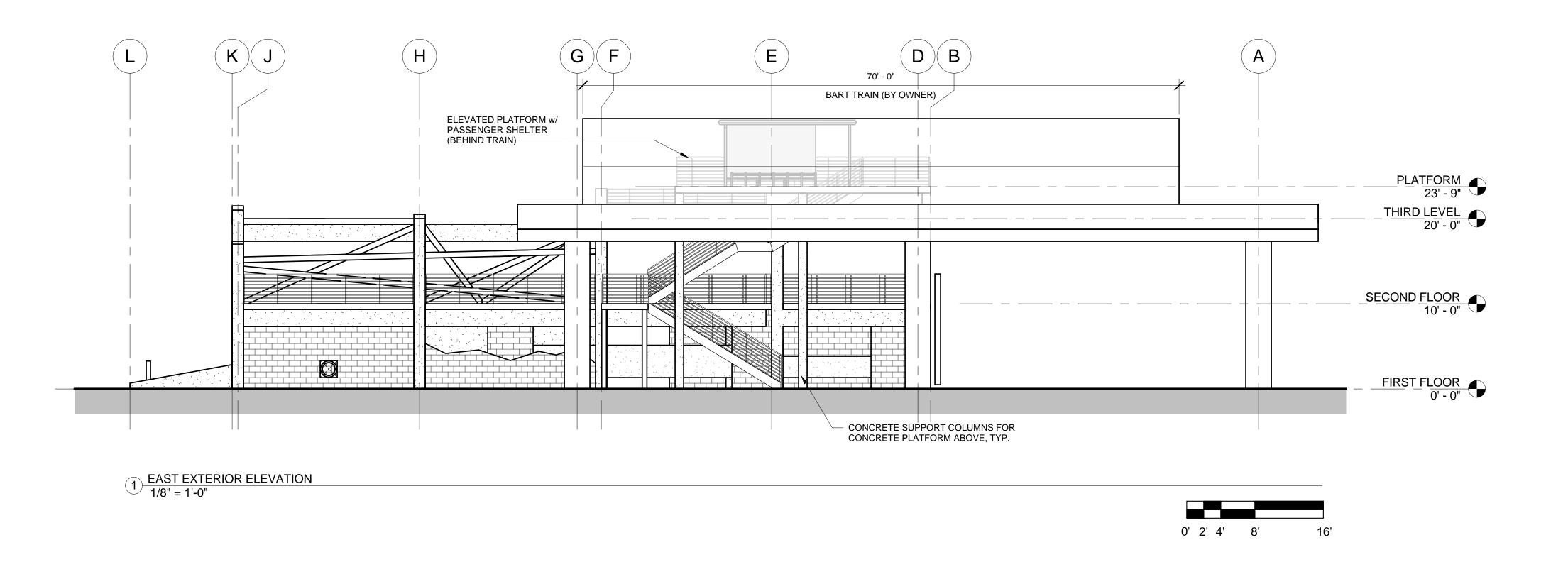
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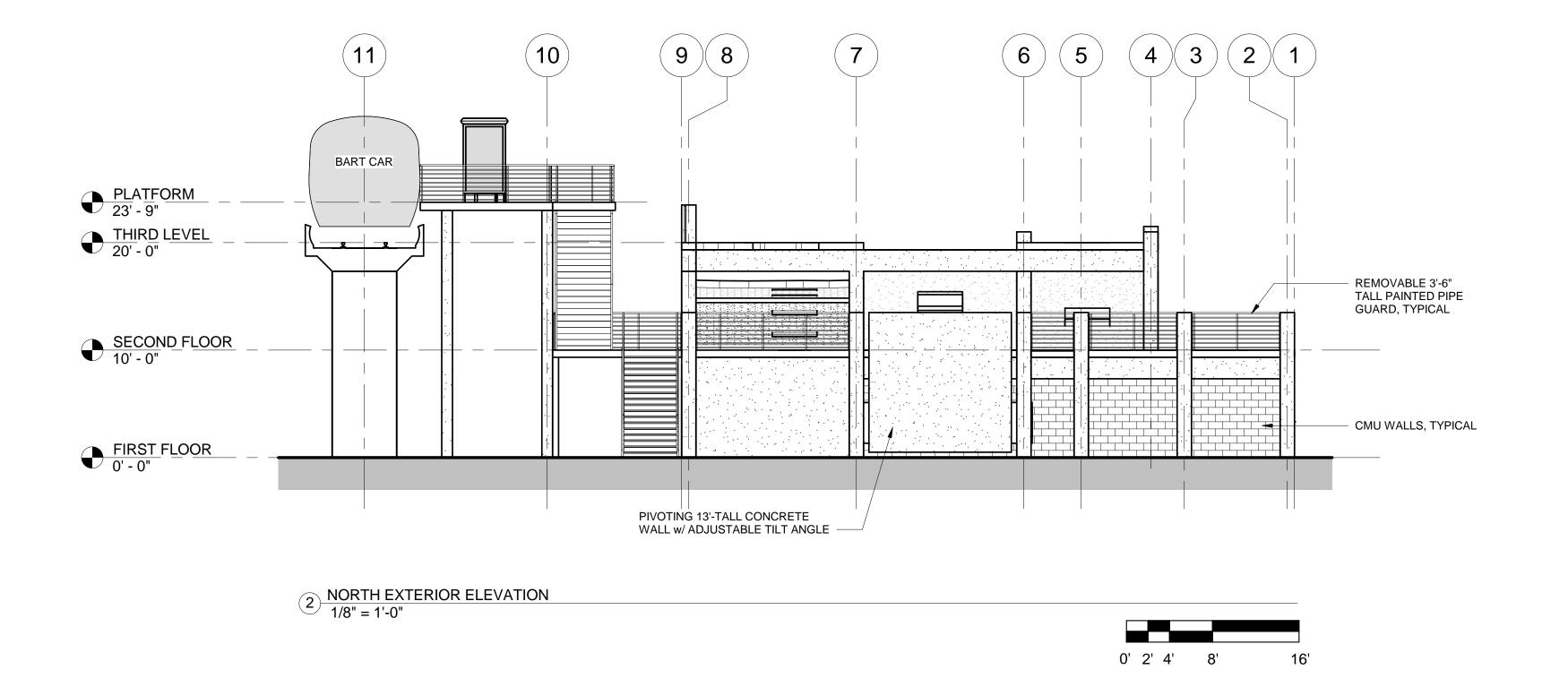
Sheet Title

BUILDING 7 EXTERIOR ELEVATIONS

Drawn By: EW Checked By: EW

1/8" = 1'-0"





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ARCHITECTURE

SHEET KEYNOTE LEGEND

WALL LEGEND

HAYWARD FIRE
STATION #6 & FIRE
TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

No. Description REVISIONS

Date

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 7 EXTERIOR ELEVATIONS

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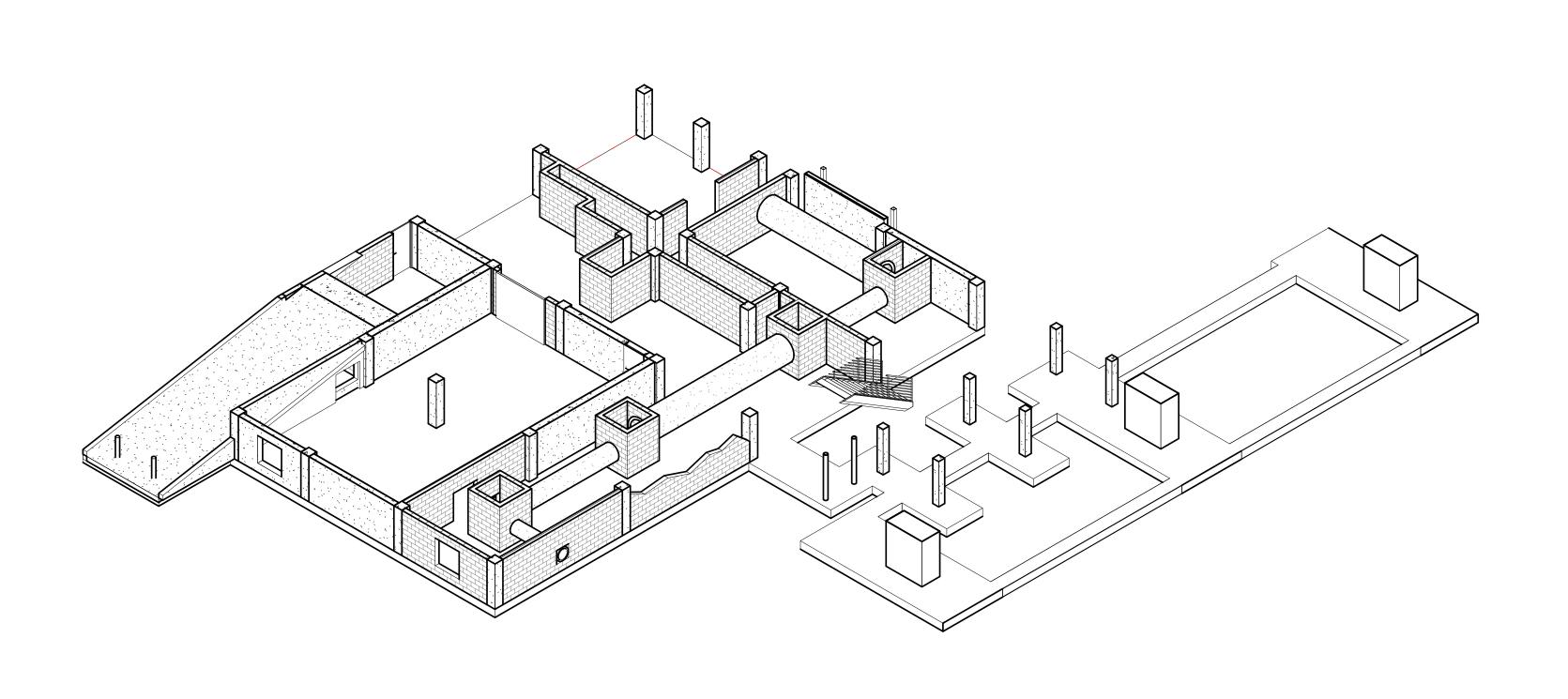
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February 1, 2018

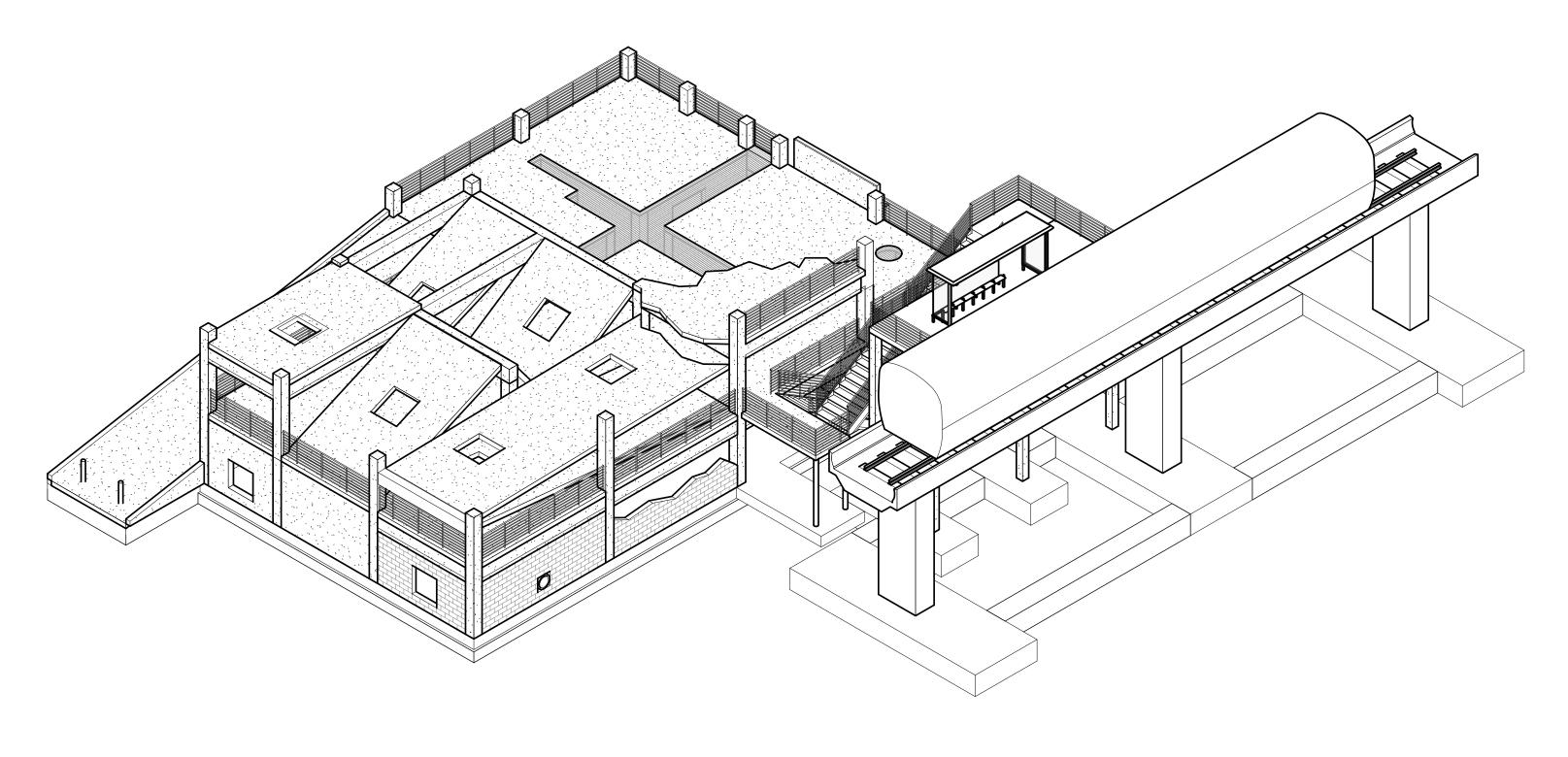
Project No. 2016039

Drawing No.

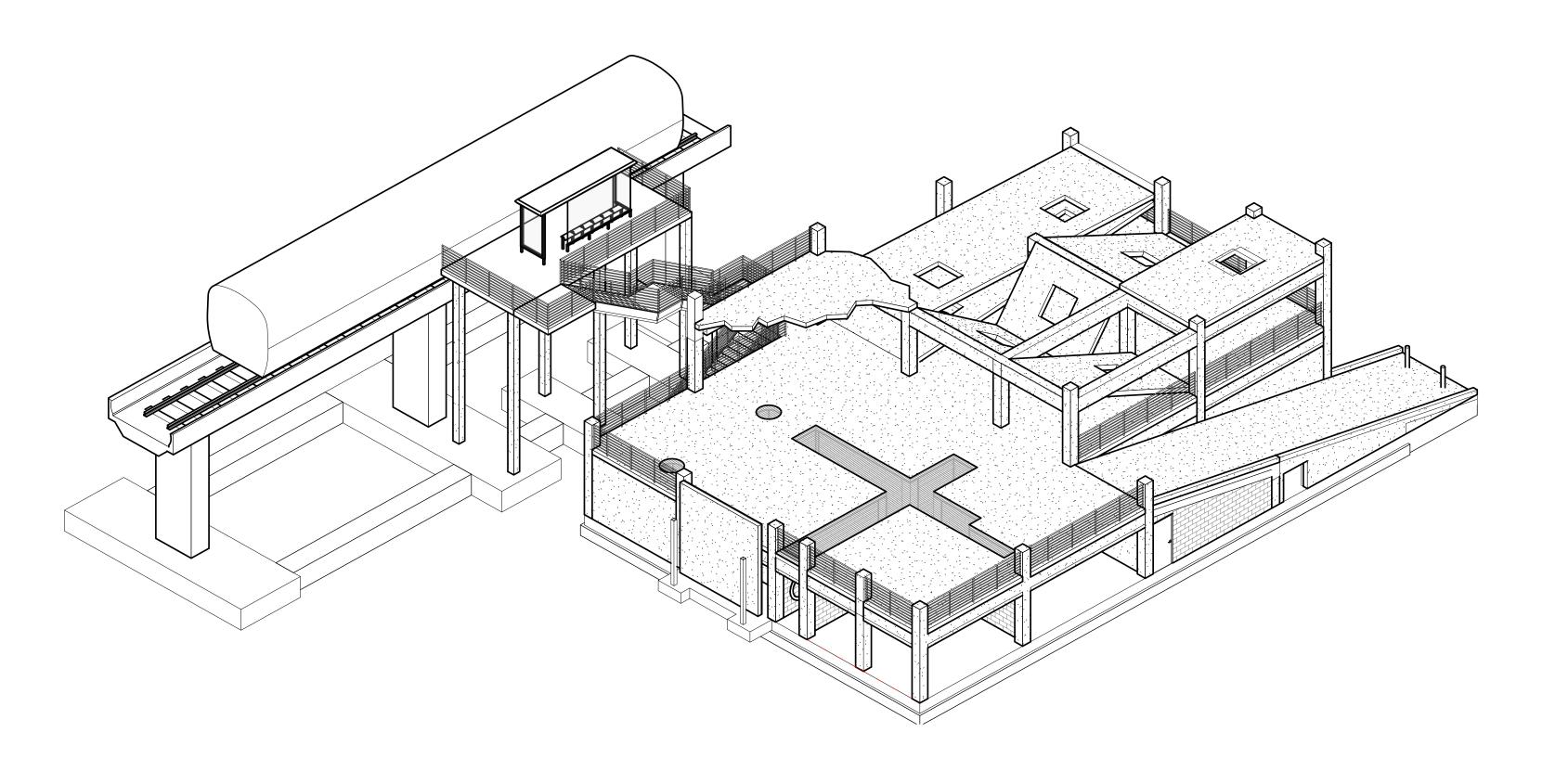
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3 NORTHEAST AXONOMETRIC VIEW



SOUTHWEST AXONOMETRIC VIEW



1829 Sond Sond CA 9 TEL 707 FAX 707

ARCHITECTURE

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

No. Description Date

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 7 AXONOMETRIC VIEWS

Drawn By: EW Checked By: EW

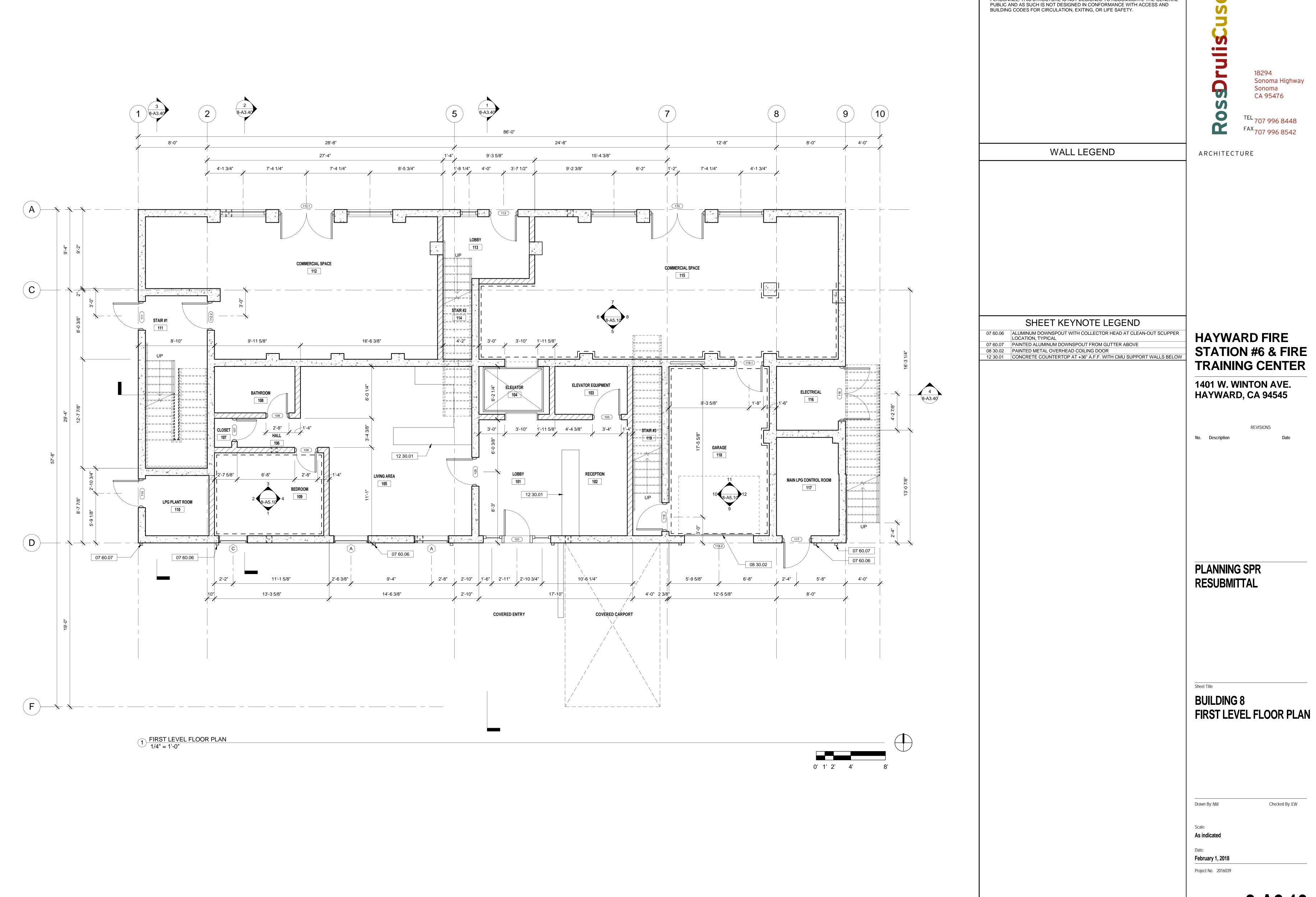
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February 1, 2018

Project No. 2016039

Drawing No.

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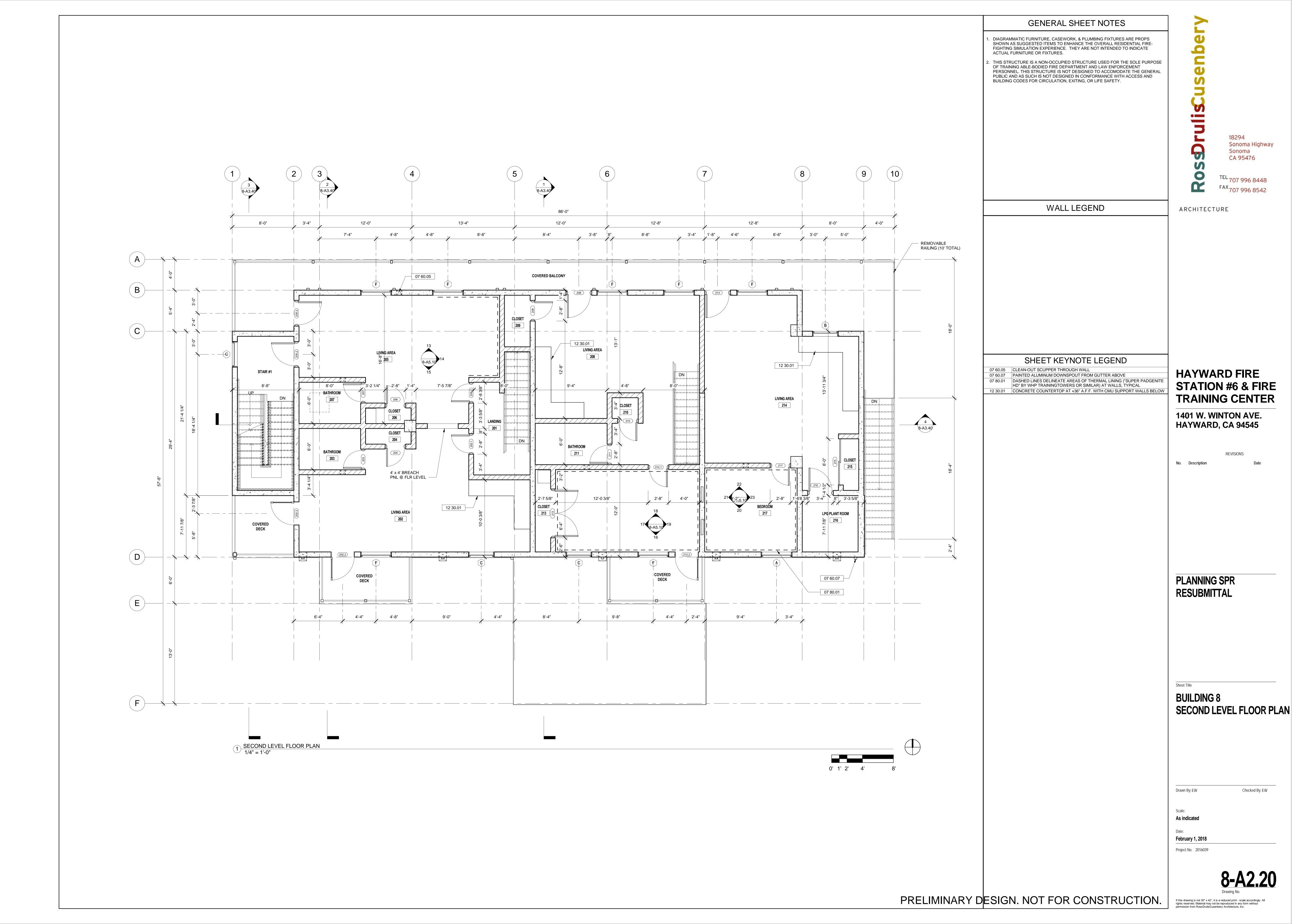
Sonoma Highway

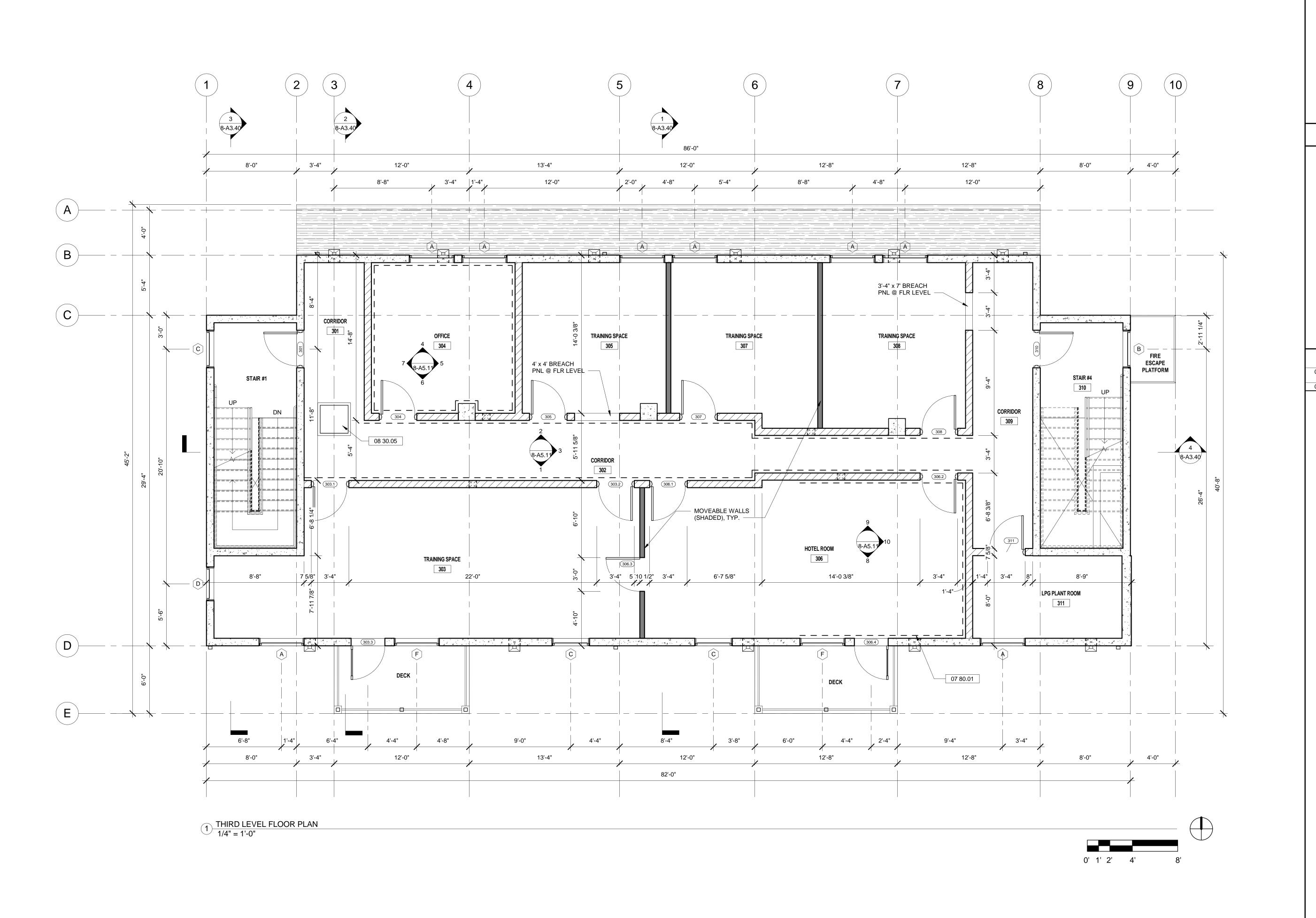
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STATION #6 & FIRE

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DrulisCuser

18294 Sonoma Highway Sonoma CA 95476

TEL 707 996 8448

FAX 707 996 8542

WALL LEGEND ARCHITECTURE

SHEET KEYNOTE LEGEND

07 80.01 DASHED LINES DELINEATE AREAS OF THERMAL LINING ("SUPER PADGENITE HD" BY WHP TRAININGTOWERS OR SIMILAR) AT WALLS, TYPICAL

08 30.05 30" SQUARE ALUMINUM FLOOR ACCESS DOOR

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

No. Description Date

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 8
THIRD LEVEL FLOOR PLAN

Drawn By: EW Checked By: EW

Scale:
As indicated

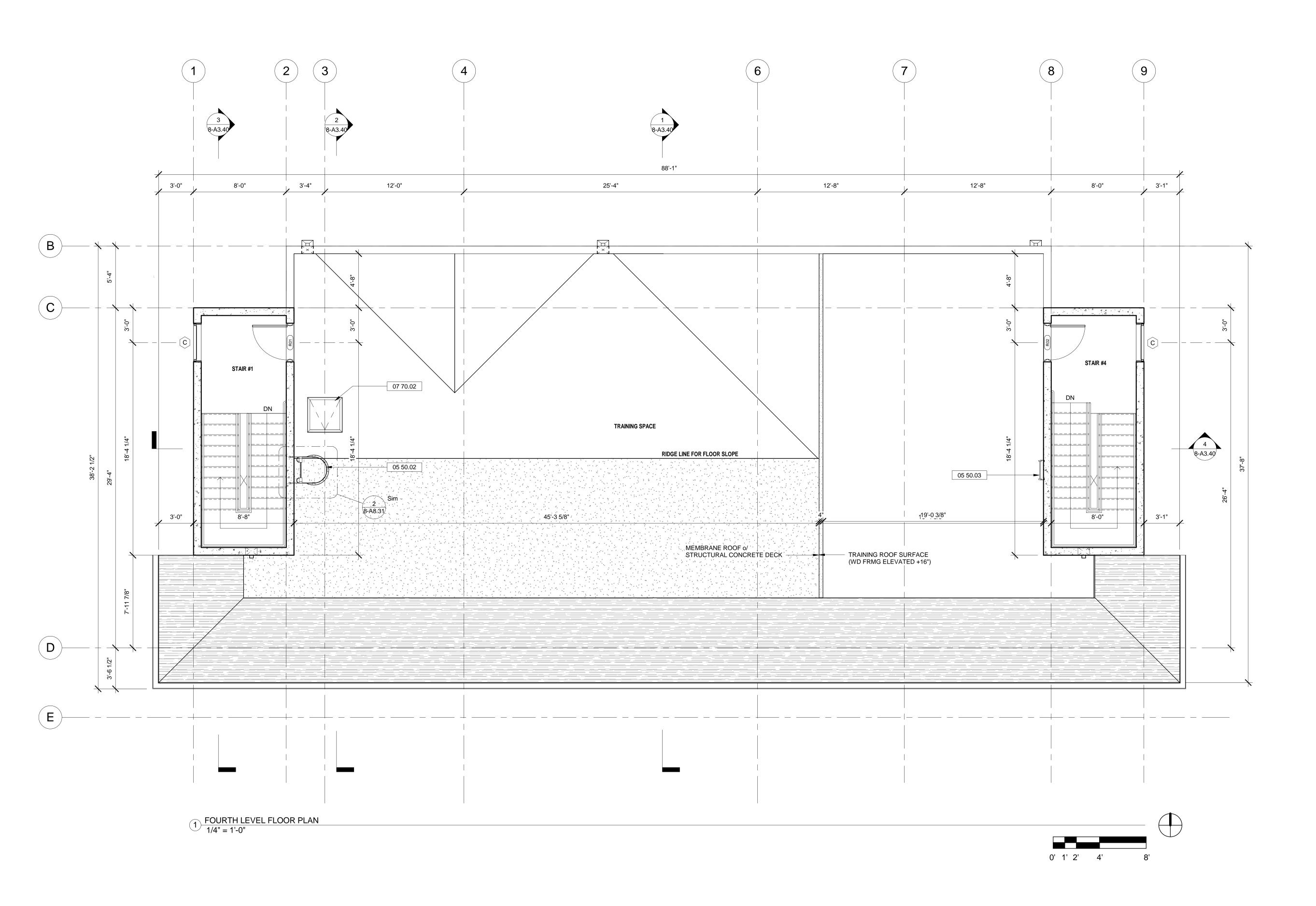
February 1, 2018

Project No. 2016039

8-A2.30

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Sources

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WALL LEGEND ARCHITECTURE

SHEET KEYNOTE LEGEND

05 50.02 PRE-FABRICATED METAL LADDER WITH SAFETY CAGE EXTENDING FROM FOURTH FLOOR TO ROOF OVER STAIR #1

05 50.03 PRE-FABRICATED METAL LADDER EXTENDING FROM TRAINING ROOF TO ROOF OVER STAIR #4

07 70.02 ROOF HATCH (TRAINING DEVICE WITHOUT SAFETY POST)

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

PLANNING SPR RESUBMITTAL

BUILDING 8 FOURTH LEVEL FLOOR PLAN

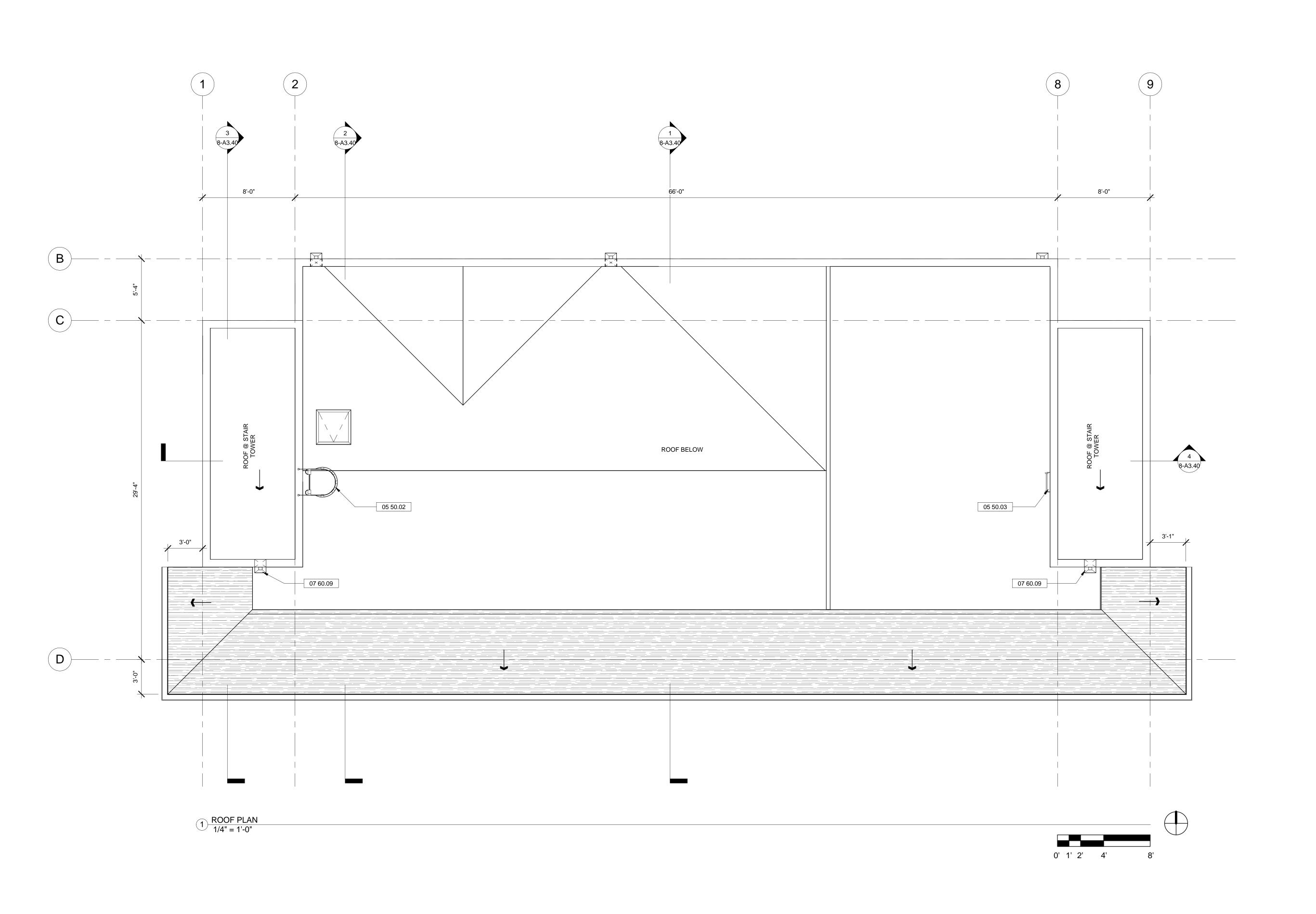
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Scale:
As indicated

February 1, 2018

Project No. 2016039

8-A2.40



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18294
Sonoma Highway
Sonoma
CA 95476

^{TEL} 707 996 8448 ^{FAX} 707 996 8542

WALL LEGEND ARCHITECTURE

SHEET KEYNOTE LEGEND

05 50.02 PRE-FABRICATED METAL LADDER WITH SAFETY CAGE EXTENDING FROM FOURTH FLOOR TO ROOF OVER STAIR #1

05 50.03 PRE-FABRICATED METAL LADDER EXTENDING FROM TRAINING ROOF TO ROOF OVER STAIR #4

ROOF OVER STAIR #4

07 60.09 ROOF SCUPPER THROUGH WALL WITH DOWNSPOUT

HAYWARD FIRE STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

No. Description

PLANNING SPR RESUBMITTAL

Sheet Title

BUILDING 8 ROOF PLAN

Drawn By: EW Checked By: EW

Scale: **As indicated**

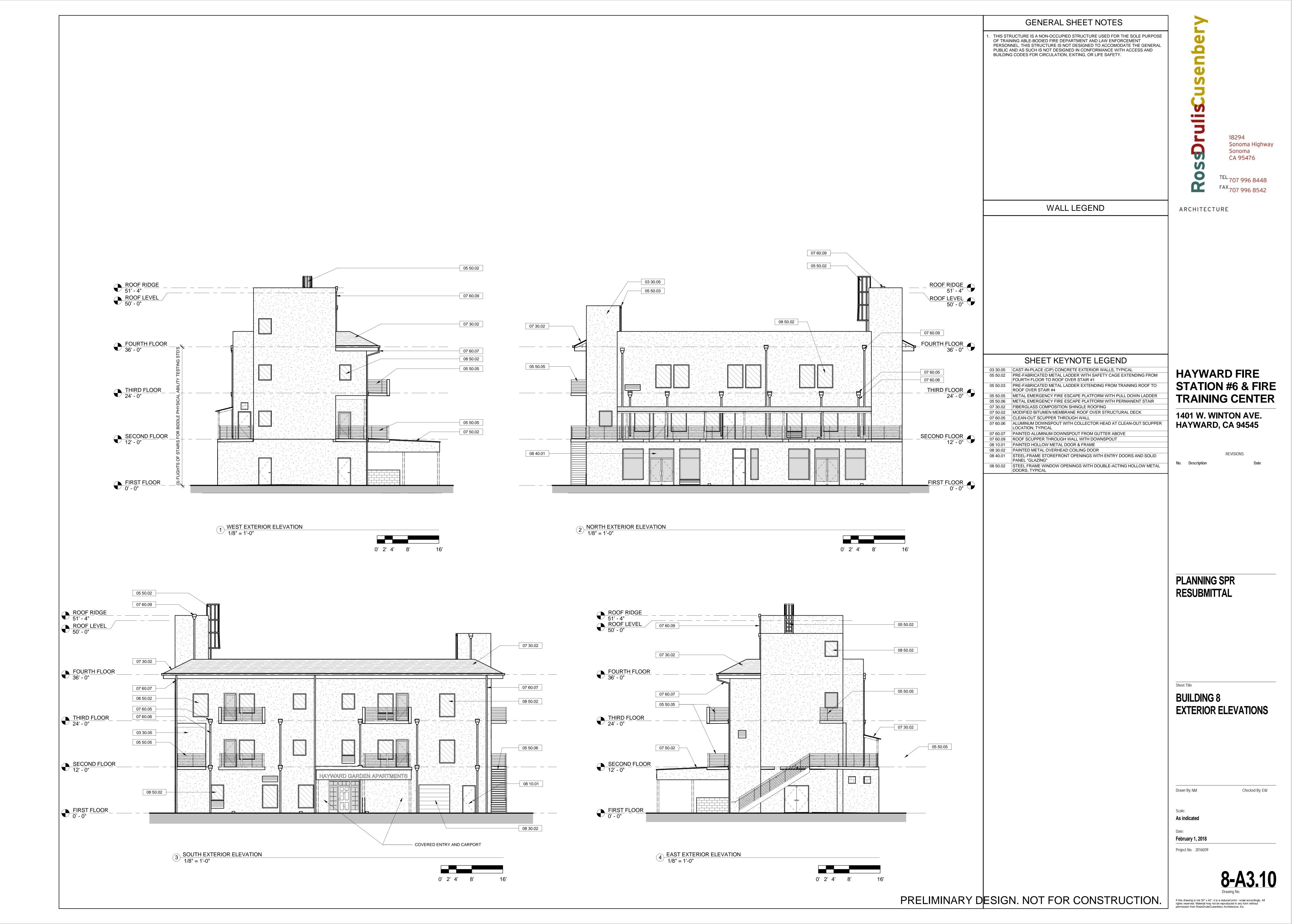
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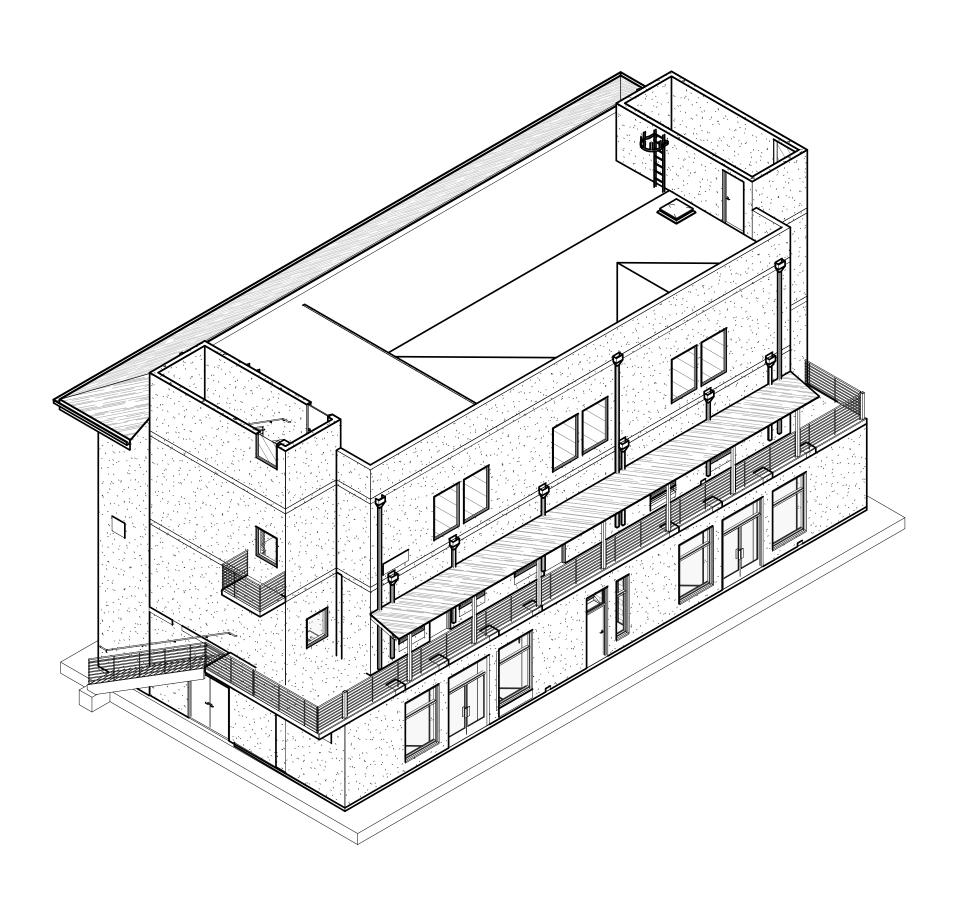
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8-A2.60

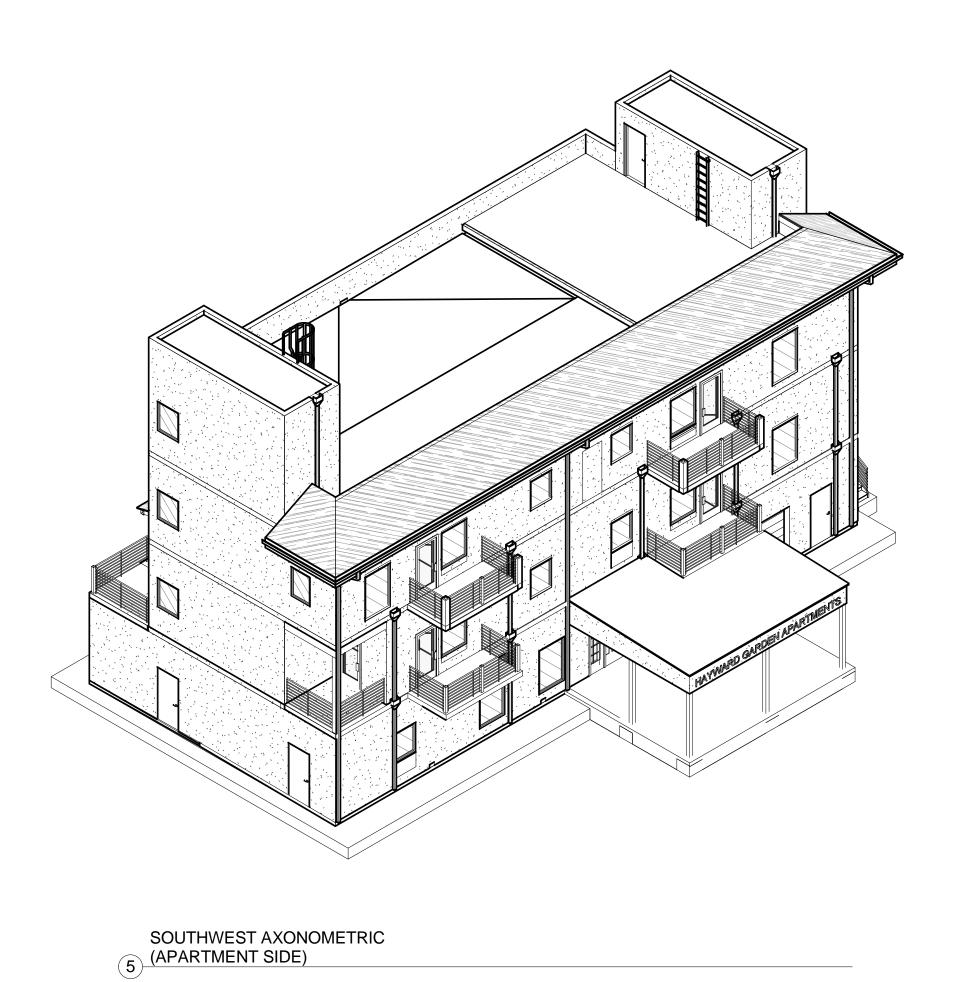
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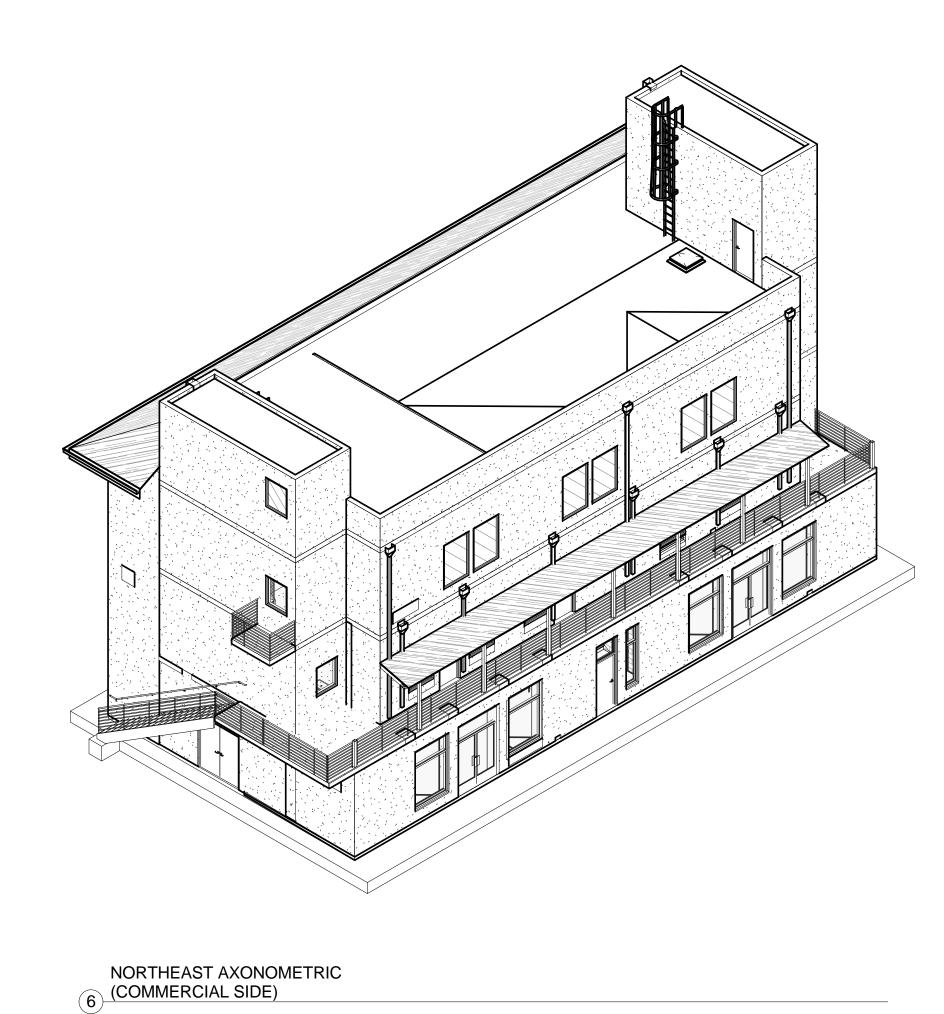
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4 ROOF LEVEL AXONOMETRIC





STATION #6 & FIRE TRAINING CENTER

1401 W. WINTON AVE. HAYWARD, CA 94545

REVISIONS

No. Description Date

HAYWARD FIRE

ARCHITECTURE

PLANNING SPR RESUBMITTAL

BUILDING 8
AXONOMETRIC VIEWS

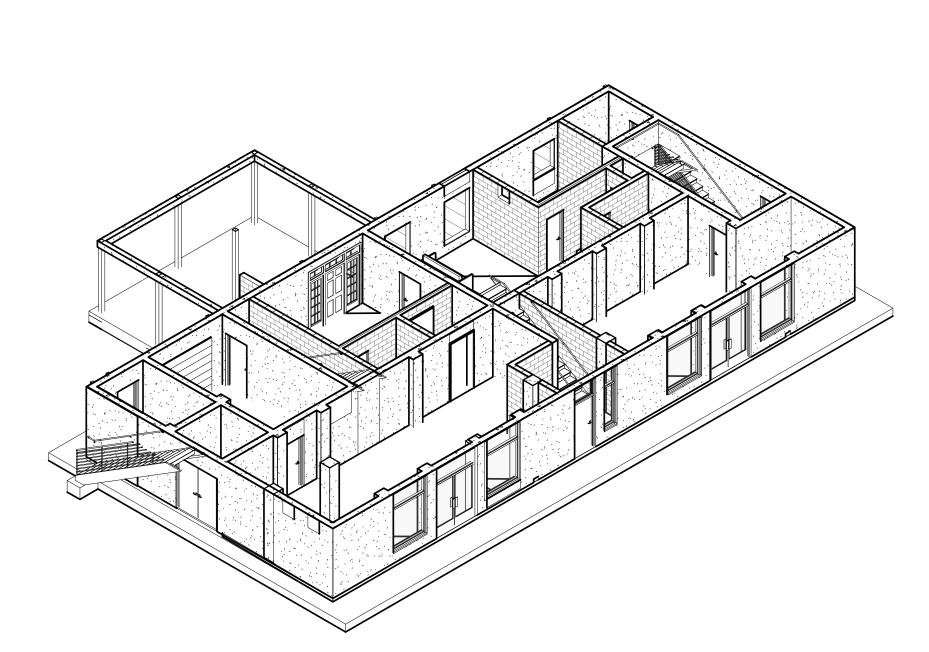
Drawn By: NM Checked By: EW

Date:
February 1, 2018

Project No. 2016039

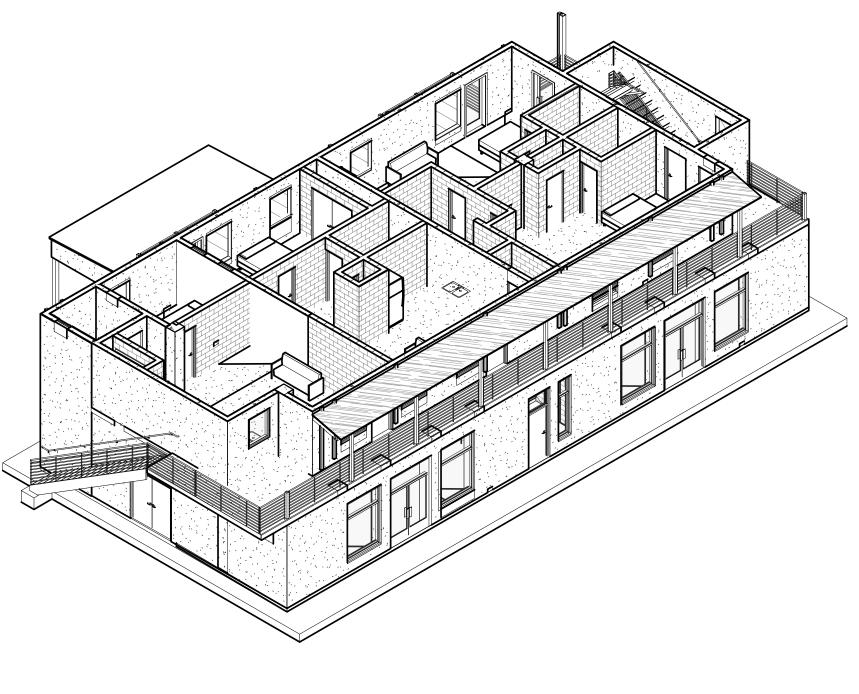
Drawing No.

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1 FIRST FLOOR LEVEL AXONOMETRIC





SECOND FLOOR LEVEL AXONOMETRIC

3 THIRD FLOOR LEVEL AXONOMETRIC

