

Abbreviations

AA	ANCHOR BOLT	MA	MASONRY
AA	ASPHALT CONCRETE	MAK	MAXIMUM
AC	ACROSTIC	MAK-1	MASONRY NO. 1
AC	ACROSTIC	MAK-2	MASONRY NO. 2
AD	ADJUSTABLE	MAK-3	MASONRY NO. 3
AD	ADJUSTABLE	MAK-4	MASONRY NO. 4
AD	ADJUSTABLE	MAK-5	MASONRY NO. 5
AD	ADJUSTABLE	MAK-6	MASONRY NO. 6
AD	ADJUSTABLE	MAK-7	MASONRY NO. 7
AD	ADJUSTABLE	MAK-8	MASONRY NO. 8
AD	ADJUSTABLE	MAK-9	MASONRY NO. 9
AD	ADJUSTABLE	MAK-10	MASONRY NO. 10
AD	ADJUSTABLE	MAK-11	MASONRY NO. 11
AD	ADJUSTABLE	MAK-12	MASONRY NO. 12
AD	ADJUSTABLE	MAK-13	MASONRY NO. 13
AD	ADJUSTABLE	MAK-14	MASONRY NO. 14
AD	ADJUSTABLE	MAK-15	MASONRY NO. 15
AD	ADJUSTABLE	MAK-16	MASONRY NO. 16
AD	ADJUSTABLE	MAK-17	MASONRY NO. 17
AD	ADJUSTABLE	MAK-18	MASONRY NO. 18
AD	ADJUSTABLE	MAK-19	MASONRY NO. 19
AD	ADJUSTABLE	MAK-20	MASONRY NO. 20
AD	ADJUSTABLE	MAK-21	MASONRY NO. 21
AD	ADJUSTABLE	MAK-22	MASONRY NO. 22
AD	ADJUSTABLE	MAK-23	MASONRY NO. 23
AD	ADJUSTABLE	MAK-24	MASONRY NO. 24
AD	ADJUSTABLE	MAK-25	MASONRY NO. 25
AD	ADJUSTABLE	MAK-26	MASONRY NO. 26
AD	ADJUSTABLE	MAK-27	MASONRY NO. 27
AD	ADJUSTABLE	MAK-28	MASONRY NO. 28
AD	ADJUSTABLE	MAK-29	MASONRY NO. 29
AD	ADJUSTABLE	MAK-30	MASONRY NO. 30
AD	ADJUSTABLE	MAK-31	MASONRY NO. 31
AD	ADJUSTABLE	MAK-32	MASONRY NO. 32
AD	ADJUSTABLE	MAK-33	MASONRY NO. 33
AD	ADJUSTABLE	MAK-34	MASONRY NO. 34
AD	ADJUSTABLE	MAK-35	MASONRY NO. 35
AD	ADJUSTABLE	MAK-36	MASONRY NO. 36
AD	ADJUSTABLE	MAK-37	MASONRY NO. 37
AD	ADJUSTABLE	MAK-38	MASONRY NO. 38
AD	ADJUSTABLE	MAK-39	MASONRY NO. 39
AD	ADJUSTABLE	MAK-40	MASONRY NO. 40
AD	ADJUSTABLE	MAK-41	MASONRY NO. 41
AD	ADJUSTABLE	MAK-42	MASONRY NO. 42
AD	ADJUSTABLE	MAK-43	MASONRY NO. 43
AD	ADJUSTABLE	MAK-44	MASONRY NO. 44
AD	ADJUSTABLE	MAK-45	MASONRY NO. 45
AD	ADJUSTABLE	MAK-46	MASONRY NO. 46
AD	ADJUSTABLE	MAK-47	MASONRY NO. 47
AD	ADJUSTABLE	MAK-48	MASONRY NO. 48
AD	ADJUSTABLE	MAK-49	MASONRY NO. 49
AD	ADJUSTABLE	MAK-50	MASONRY NO. 50

Reference Symbols

	GRID LINE
	SECTION IDENTIFICATION
	DETAIL IDENTIFICATION
	INTERIOR ELEVATION
	SHEET DESIGNATION
	ELEVATION DESIGNATION
	EXTERIOR ELEVATION
	ELEVATION IDENTIFICATION
	SHEET DESIGNATION
	SPOT ELEVATION
	ROOM IDENTIFICATION
	WINDOW IDENTIFICATION
	DOOR IDENTIFICATION
	MATCH LINE
	WALL ASSEMBLY TYPE
	ROOF OR FLOOR / CEILING ASSEMBLY TYPE
	REVISION IDENTIFICATION
	CONTOUR LINES
	EXISTING PROPOSED

Symbols

	ANGLE
	AT
	CENTER LINE
	CHANNEL
	DIAMETER
	INCHES
	FEET
	PENNY
	PERPENDICULAR
	PROPERTY LINE
	SQUARE FEET
	POUND

Vicinity Map

SPE CIVIL ENGINEERING SHEET C-1 FOR VICINITY MAP

Project Team

OWNER: TRUCKEE TAHOE AIRPORT DISTRICT
 CONTACT: KEVIN SMITH, GENERAL MANAGER
 10356 TRUCKEE AIRPORT ROAD
 TRUCKEE, CA 96161
 530-587-4119

CIVIL ENGINEER: ACTIMEN ENGINEERING
 CONTACT: BILL QUENSEL
 P.O. BOX 3497
 TRUCKEE, CA 96160
 530-550-8068

ARCHITECT: PETER S. GERDIN
 15695 DONNER PASS RD STE 206
 TRUCKEE, CA 96161
 530-587-7513

STRUCTURAL ENGINEER: GABBART & WOODS
 ABE HAHN
 10775 POWERS TRAIL, SUITE 214
 TRUCKEE, CA 96161
 530-563-6274

MECHANICAL ENGINEER: SIGARPINE ENGINEERING
 MARK SCHLOSSER
 12710 NORTHWOODS BLVD, SUITE 3
 TRUCKEE, CA 96161
 530-214-0839

ELECTRICAL ENGINEER: SA ENGINEERING
 ERIC SANDEL
 P.O. BOX 2469
 TRUCKEE, CA 96160

Sheet Index

CVR	COVER SHEET - PROJECT INFORMATION
CI	SITE PLAN
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A3.1	EXTERIOR ELEVATIONS
A3.2	EXTERIOR ELEVATIONS/CROSS SECTION
S1.1	STRUCTURAL NOTES, ABBREVIATIONS
S2.1	FOUNDATION PLAN
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S3.1	STRUCTURAL DETAILS
S4.1	STRUCTURAL DETAILS
M1.1	MECHANICAL NOTES & SCHEDULES
M2.1	PLUMBING PLANS
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M4.1	MECH DIAGRAMS
E1.0	ELECTRICAL DIAGRAM, PANEL SCHEDS, & LOAD CALC
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E2.1	LIGHTING & HVAC PLAN

Project Data

PROJECT LOCATION: 12110 CHANDELLE WAY TRUCKEE, CA 96161

APN: 19-440-39

BLDG SQ FTG: (E) BLDG = 8820 S.F. ADDITION = 2460 S.F. MEZZ STORAGE = 1110 S.F. TOTAL ADDITION = 3570 S.F.

Deferred Submittals

FIRE SPRINKLER DESIGN & DRAWINGS

DEFERRED SUBMITTALS - DOCUMENTS FOR DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO FORWARDED THEM TO THE BUILDING OFFICIAL. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHOULD NOTE ON THE DOCUMENT INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHOULD NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. 2013 CBC SECTION 107.3.4.1

Notes

SPECIAL INSPECTIONS PER CBC SECTION 1704 - THE OWNER OR THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. COORDINATE WITH THE STRUCTURAL ENGINEER AND LIST ALL REQUIRED INSPECTIONS. 2013 CBC SECTION 1704.2. FABRICATOR APPROVAL - APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. 2013 CBC SECTION 1704.2.5.2

General Notes

REFER TO SOils REPORT BY HOLDREGE & KILLI DATED 2/12/16 FOR UNDERSLAB & FOUNDATIONS RECOMMENDATIONS

95% CONSTRUCTION DRAWINGS

BID SET

Peter S. Gerdin Architect

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 Truckee, CA 96161
 Ph. 530.587.7513 Fax 530.587.7557
 e-mail psgerdin@cedwdg.com

Scale	NA	Sheet No.	CVR
Date	12/15/16	Revision	PG
Drawn	PAD	Checked	PG
Reviewed	PG	Scale	NA

These drawings are the property of Peter S. Gerdin, Architect. All instruments of service, the information contained on these drawings is for use on the specified project. These drawings shall not be used otherwise without the written permission of Peter S. Gerdin, Architect. Written dimensions shall have precedence over scaled dimensions. All contractors and subcontractors shall verify and be responsible for all dimensions and conditions on the job and shall notify the Architect's Office as to any variation or condition shown by these drawings.

GENERAL NOTES

- All construction materials and methods shall conform to the requirements of Nevada County. All references to the Standard Specifications shall refer to latest edition of the State of California Department of Transportation Standard Specifications. Attention is also directed to the Nevada County Standard plan details.
- COUNTY, DEPARTMENT OR ENGINEER, as used on these plans and notes, refers to the Nevada County Engineer or an authorized agent appointed by the Nevada County Engineer.
- All field staking shall be done by a registered civil engineer or licensed land surveyor.
- The contractor is hereby notified that prior to commencing construction, they are responsible for contacting all utility companies for verification at the construction site of the locations of all underground facilities where such facilities may possibly conflict with the placement of the improvements shown on these plans. Call "Underground Service Alert" at 1-800-227-2600 two (2) days minimum to fourteen (14) days maximum before any excavation is started.
- Contractor is responsible for the protection of all existing monuments and other survey markers. Monuments and survey markers destroyed during construction shall be replaced at the contractor's expense.
- All asphalt concrete surfaces shall be sawcut two feet minimum inside the edge of pavement to a neat, straight line and removed. The exposed edge shall be sealed with emulsion prior to paving. The exposed base material shall be graded, recompact and ressealed prior to paving.
- Contractor shall maintain adequate dust control per Nevada County specifications.
- No construction shall be done without a County approved sediment/erosion control plan to prevent soil erosion. All erosion and sedimentation control measures shall be in accordance with the Regional Water Quality Control Board Best Management Practices.
- Installation and maintenance of erosion control measures are the minimum required and the responsibility of the contractor. Winterization and erosion control shown on these plans is intended as a guide. Additional erosion control measures may be required as determined by the County. This responsibility shall apply throughout the course of construction and until all disturbed areas have become stabilized and shall not be limited to wet weather periods.
- After stripping the debris, any existing loose fill, unsuitable soil, silty, sand deposits, or disturbed natural soils shall be excavated and properly disposed of.
- Asphalt Concrete (AC) mix design and specifications for paving shall conform to the latest edition of the Standard Specifications for Public Works Construction, "Greenbook". Specified lifts of C2-AR-4000 mineral aggregate AC mix.
- The County or utility provider may require the contractor to uncover any improvements that have been completed without proper County or utility inspection and/or approval. If the installation is found not to meet agency standards or previously approved alternatives shown on the plans, the contractor may be required to remove and replace such improvements at contractor's expense.
- Construction waste and industrial toxic waste (petroleum and other chemical products) shall be disposed of properly in compliance with existing regulations and facilities.
- Hours of operation shall be limited to the hours of 7 a.m. to 7 p.m. Monday through Saturday.

NEVADA COUNTY GRADING REQUIREMENTS

NO GRADING SHALL OCCUR AFTER OCTOBER 15 OR BEFORE MAY 15 UNLESS THE CHIEF BUILDING INSPECTOR, OR HIS/HER AUTHORIZED AGENT, DETERMINES PROJECT SOIL CONDITIONS TO BE ADEQUATE TO ACCOMMODATE GRADING ACTIVITIES AND AN ADEQUATE EROSION CONTROL PLAN IS APPROVED AND IN PLACE.

DISRUPTION OF SOILS AND NATIVE VEGETATION SHALL BE MINIMIZED; DISTURBED AREAS SHALL BE GRADED TO MINIMIZE SURFACE EROSION AND SILTATION; BARE SOILS SHALL BE IMMEDIATELY STABILIZED AND REVEGETATED. SEEDED AREAS SHALL BE COVERED WITH BROADCAST STRAW OR PINE NEEDLE MULCH PER REVEGETATION SPECIFICATION.

IF STRAW IS BROADCAST OVER SEEDED AREAS, ONLY CERTIFIED WEED-FREE STRAW OR RICE STRAW SHALL BE UTILIZED TO MINIMIZE THE RISK OF INTRODUCING OR SPREADING NOXIOUS WEEDS SUCH AS YELLOW STAR THISTLE OR ITALIAN THISTLE.

THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT WATERWAYS AND DRAINAGE COURSES FROM POLLUTION WITH FUELS, OILS, BITUMEN, CALCIUM CHLORIDE, AND OTHER HARMFUL MATERIALS. CONSTRUCTION BYPRODUCTS AND POLLUTANTS SUCH AS OIL, CEMENT, AND WASH WATER SHALL BE PREVENTED FROM DISCHARGING INTO OR NEAR THESE RESOURCES AND SHALL BE COLLECTED AND REMOVED FROM THE SITE. ALL CONSTRUCTION DEBRIS AND ASSOCIATED MATERIALS AND LITTER SHALL BE REMOVED FROM THE WORK SITE IMMEDIATELY UPON COMPLETION.

PRIOR TO APPROVAL OF IMPROVEMENT OR GRADING PLANS FOR DRIVEWAY OR ROAD CONSTRUCTION, AN APPROVAL LETTER FROM THE NSAQMD SHALL BE OBTAINED, INDICATING THE APPROVED METHOD OF CLEARED VEGETATION DISPOSAL. SUCH METHODS SHALL BE NOTED ON THE IMPROVEMENT PLANS PRIOR TO APPROVAL.

CONTRACTORS AND CONSTRUCTION PERSONNEL INVOLVED IN ANY FORM OF GROUND DISTURBANCE SHALL BE ADVISED OF THE POSSIBILITY OF ENCOUNTERING SUBSURFACE CULTURAL RESOURCES. IF SUCH RESOURCES ARE ENCOUNTERED OR SUSPECTED, WORK SHALL BE HALTED IMMEDIATELY AND THE CONSTRUCTION CONTRACTOR SHALL CONTACT THE PLANNING DEPARTMENT. A PROFESSIONAL ARCHAEOLOGIST SHALL BE CONSULTED TO ACCESS ANY DISCOVERIES AND DEVELOP APPROPRIATE MANAGEMENT RECOMMENDATIONS FOR ARCHAEOLOGICAL RESOURCE TREATMENT. IF BONES ARE ENCOUNTERED AND APPEAR TO BE HUMAN, THE NEVADA COUNTY CORONER AND THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED. IF THE RESOURCES ENCOUNTERED ARE NATIVE AMERICAN IN ORIGIN, NATIVE AMERICAN TRIBES AND INDIVIDUALS RECOGNIZED BY THE COUNTY SHALL BE NOTIFIED AND CONSULTED ABOUT ANY PLANS FOR TREATMENT.

NSAQMD DUST CONTROL PLAN

- The contractor shall be responsible for ensuring that all adequate dust control measures are implemented in a timely manner during all phases of project development and construction.
- All material excavated, stockpiled, or graded shall be sufficiently watered, treated, or covered to prevent fugitive dust from leaving the property boundaries and/or causing a public nuisance. Watering during summer months should occur at least twice daily, with complete coverage of disturbed areas.
- All areas with vehicle traffic shall be watered or have dust palliative applied as necessary to minimize dust emissions.
- All on-site vehicle traffic shall be limited to a speed of 15 mph on unpaved roads.
- All land clearing, grading, earth moving, or excavation activities on a project shall be suspended as necessary to prevent excessive windblown dust when winds are expected to exceed 20 mph.
- All inactive portions of the development site shall be covered, seeded, or watered or otherwise stabilized until a suitable cover is established.
- All material transported off-site shall be either sufficiently watered or securely covered to prevent it from being entrained in the air and there must be a minimum of six (6) inches of freeboard in the bed of the transport vehicle.
- Paved streets adjacent to the project shall be swept or washed at the end of each day, or more frequently if necessary, to remove excessive accumulations or visibly raised areas of soil which may have resulted from activities at the project site.
- Prior to final occupancy, the contractor shall re-establish ground cover on the site through seeding and watering.

REVEGETATION PLAN:

ALL DISTURBED AREAS SHALL BE REVEGETATED WITH THE FOLLOWING SEED MIX APPLIED AT THE SPECIFIED RATES:

Species	Purity	Germination	Rate of Application
Slender Wheatgrass (<i>Agropyron trachyauculum</i>)	90%	90%	8 lbs/acre
Luna Pubescent Wheatgrass (<i>Agropyron trichophorum luna</i>)	90%	90%	8 lbs/acre
"Scaldus" Hard Fescue (<i>Festuca longifolia</i>)	90%	90%	10 lbs/acre
"Sherman" Big Bluegrass (<i>Poa ampa</i>)	90%	90%	8 lbs/acre
"Apar Lewis Flax (<i>Linium lewisii</i>)	99%	80%	4 lbs/acre
"Bondera" Rocky Mountain Penstemon (<i>Penstemon strictus</i>)	99%	80%	2 lbs/acre
Lupine Blend	60%	70%	2 lbs/acre
"California Poppy" (<i>Ehsholtzia</i>)	99%	80%	2 lbs/acre**
"Sierra" Sulphur Flower Buckwheat (<i>Eriogonum umbellatum</i>)	40%	50%	2 lbs/acre
			Total: 46 lbs/acre

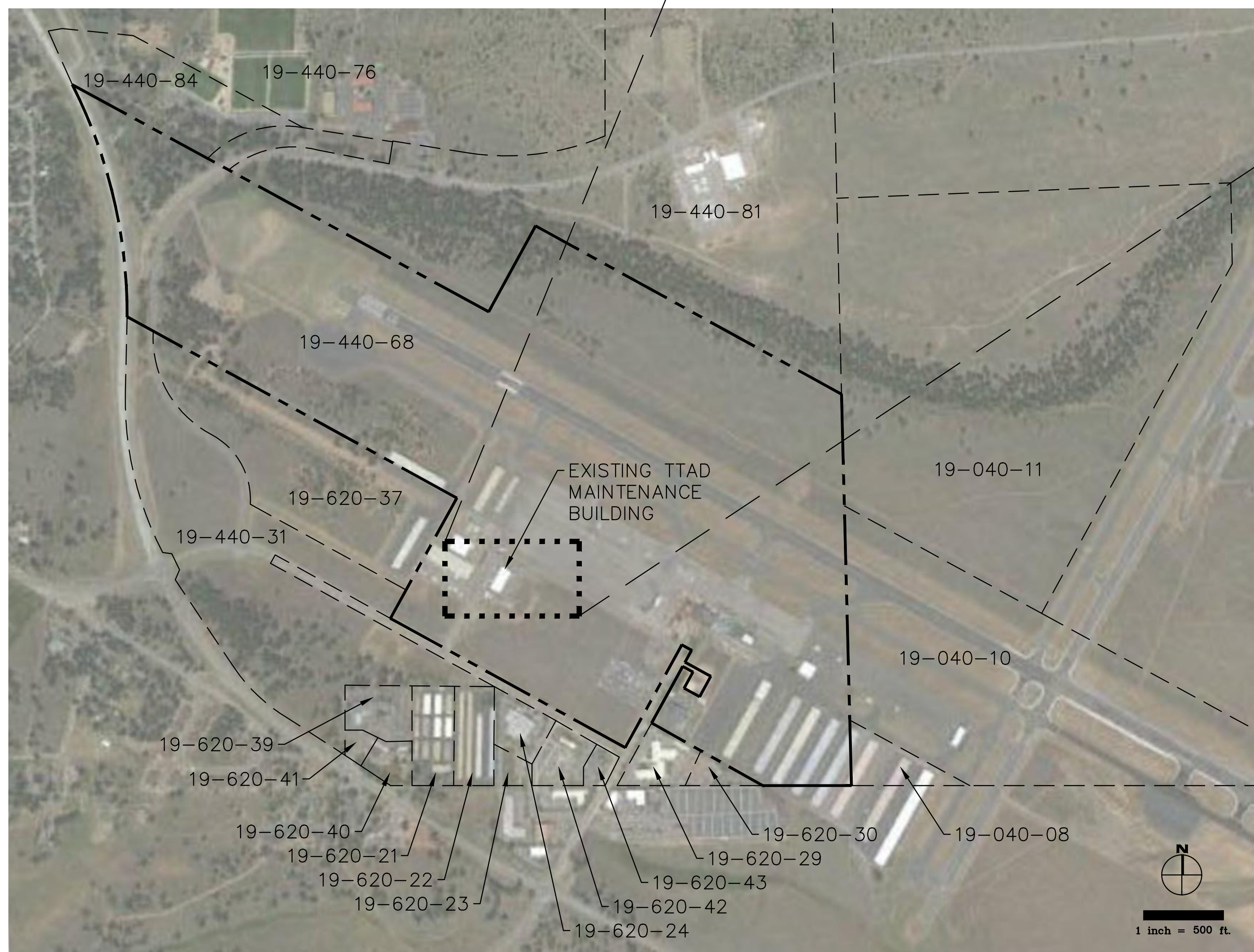
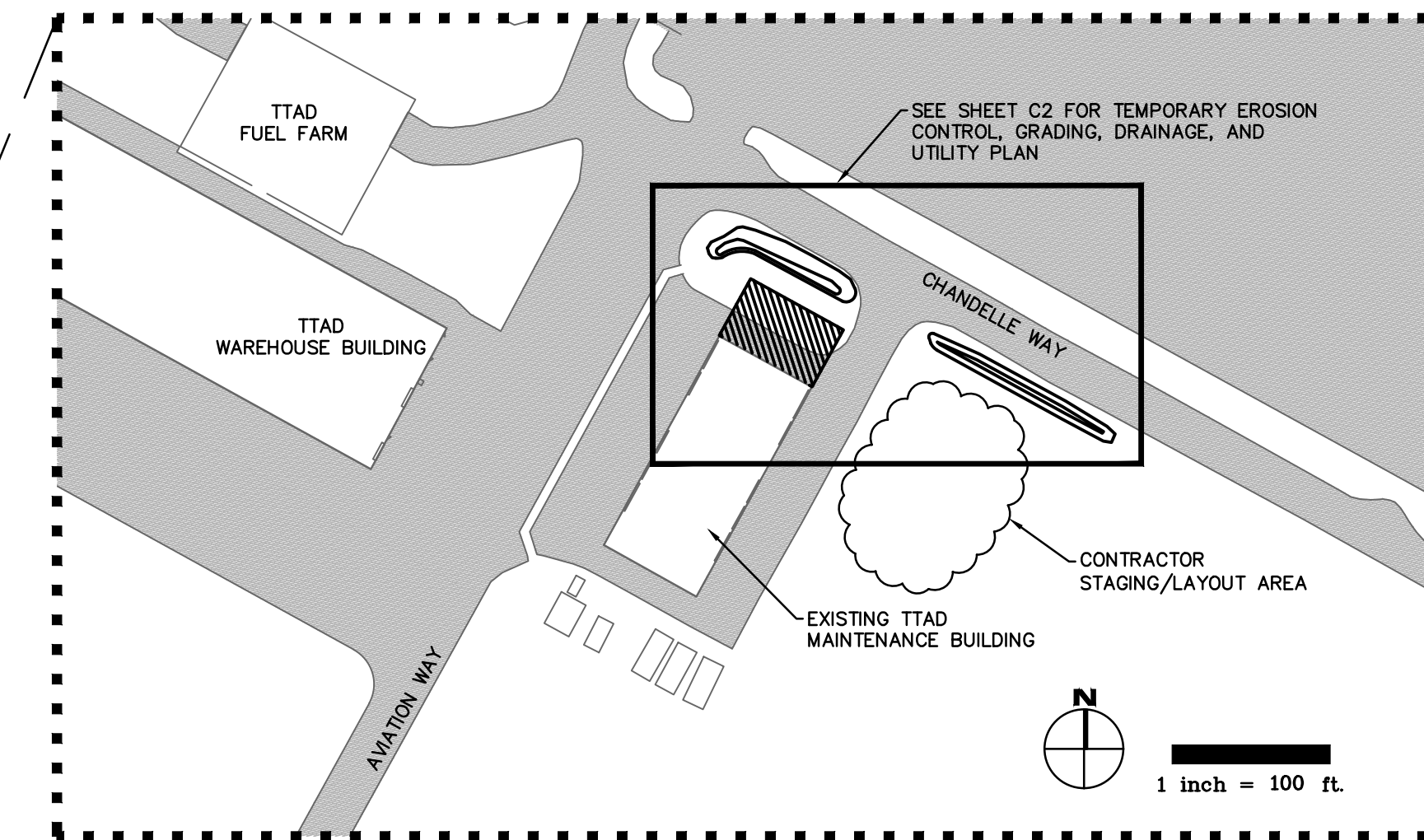
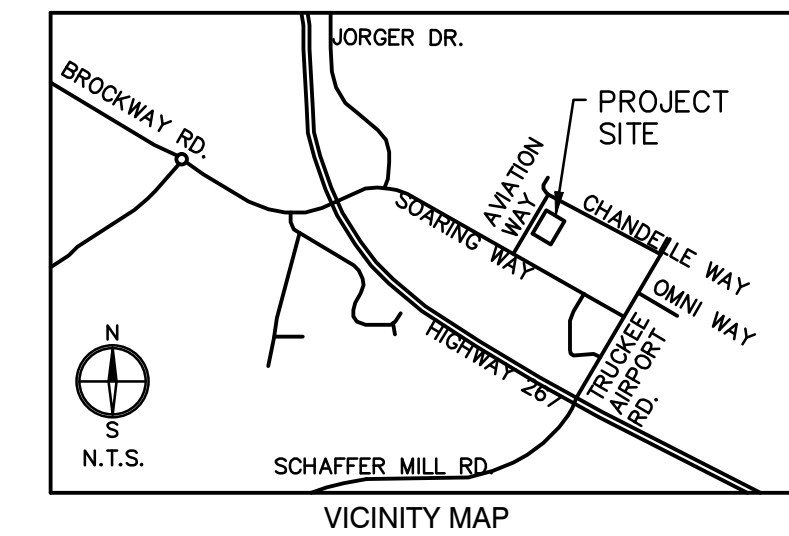
THE SEED SHALL BE EVENLY BROADCAST BY HAND, MECHANICAL HAND SEEDER, OR OTHER APPROVED EQUIPMENT. SEED SHALL BE INCORPORATED INTO THE SOIL USING HAND TOOLS. THE INCORPORATION PROCESS SHALL BE PERFORMED LONGITUDINAL TO THE SLOPE PROGRESSING FROM THE TOE OF THE SLOPE TO THE TOP OF THE SLOPE. THE WORK SHALL NOT CREATE AN EXCESSIVE AMOUNT OF DOWNWARD MOVEMENT OF SOIL OR CLODS ON SLOPING AREAS. SEED SHALL HAVE A SOIL COVER OF NOT LESS THAN ONE-QUARTER INCH (1/4") OR MORE THAN THREE-QUARTERS INCH (3/4").

SLOW RELEASE FERTILIZER SHALL BE AMMONIUM PHOSPHATE SULFATE COMMERCIAL FERTILIZER, AND SHALL CONTAIN A MINIMUM OF 17 PERCENT NITROGEN, 7 PERCENT AVAILABLE PHOSPHORIC ACID, 12 PERCENT WATER SOLUBLE POTASH; AND SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING, PELLETTED OR GRANULAR. THE APPLICATION RATE SHALL BE 250 POUNDS PER ACRE SPREAD UNIFORMLY OVER THE AREA TO BE REVEGETATED.

ALL SEEDED AREAS SHALL BE PERMANENTLY MULCHED TO ALLOW ESTABLISHMENT OF VEGETATION. MULCH SHALL CONSIST OF PINE NEEDLES OR PROCESSED SITE CLEARED VEGETATION. THE MULCH SHALL BE APPLIED UNIFORMLY AT A RATE OF APPROXIMATELY 4000 POUNDS/ACRE. THE MULCH SHALL BE ANCHORED IN THE SOIL BY USE OF A SHEEPSFOOT, CRAWLER TRACK OR HAND PUNCHED WITH SHOVELS.

FOLLOWING MANUAL APPLICATION OF THE SEED, AND AMENDMENTS, MULCH MAY BE APPLIED MANUALLY OR WITH TRACK WALK MULCHER. HYDROSEEDING IS NOT SUFFICIENT FOR REVEGETATION.

NOTE: ALL GEOTECHNICAL WORK SHALL BE IN COMPLIANCE WITH THE GEOTECHNICAL REPORT PREPARED BY HOLDREGE & KULL, 41277A-02, DATED FEBRUARY 17, 2016.



UTILITY PROVIDERS

- SANITARY SEWER - TRUCKEE SANITARY DISTRICT (530) 587-3804
12304 JOERGER DR., TRUCKEE, CA
- POWER/COMMUNICATIONS - TRUCKEE DONNER P.U.D. (530) 582-3945
P.O. BOX 309, TRUCKEE, CA
- WATER - TRUCKEE DONNER P.U.D. (530) 582-3950
P.O. BOX 309, TRUCKEE, CA
- NATURAL GAS - SOUTHWEST GAS (530) 582-7228
10682 PIONEER TRAIL, TRUCKEE, CA
- TELEPHONE - AT&T (530) 888-2365
P.O. BOX 2696, TRUCKEE, CA 96160
- CABLE TV - SUDDENLINK COMMUNICATIONS (530) 587-6100
10607 WEST RIVER ST., TRUCKEE, CA

BID SET



ACUMEN ENGINEERING COMPANY

ph 530.550.8068 Post Office Box 3497
fax 530.550.8069 Truckee, CA 96160

**TRUCKEE TAHOE AIRPORT DISTRICT
VEHICLE MAINTENANCE BUILDING ADDITION**

12116 CHANDELLE WAY
TRUCKEE, CALIFORNIA
APN 19-440-68 NEVADA COUNTY

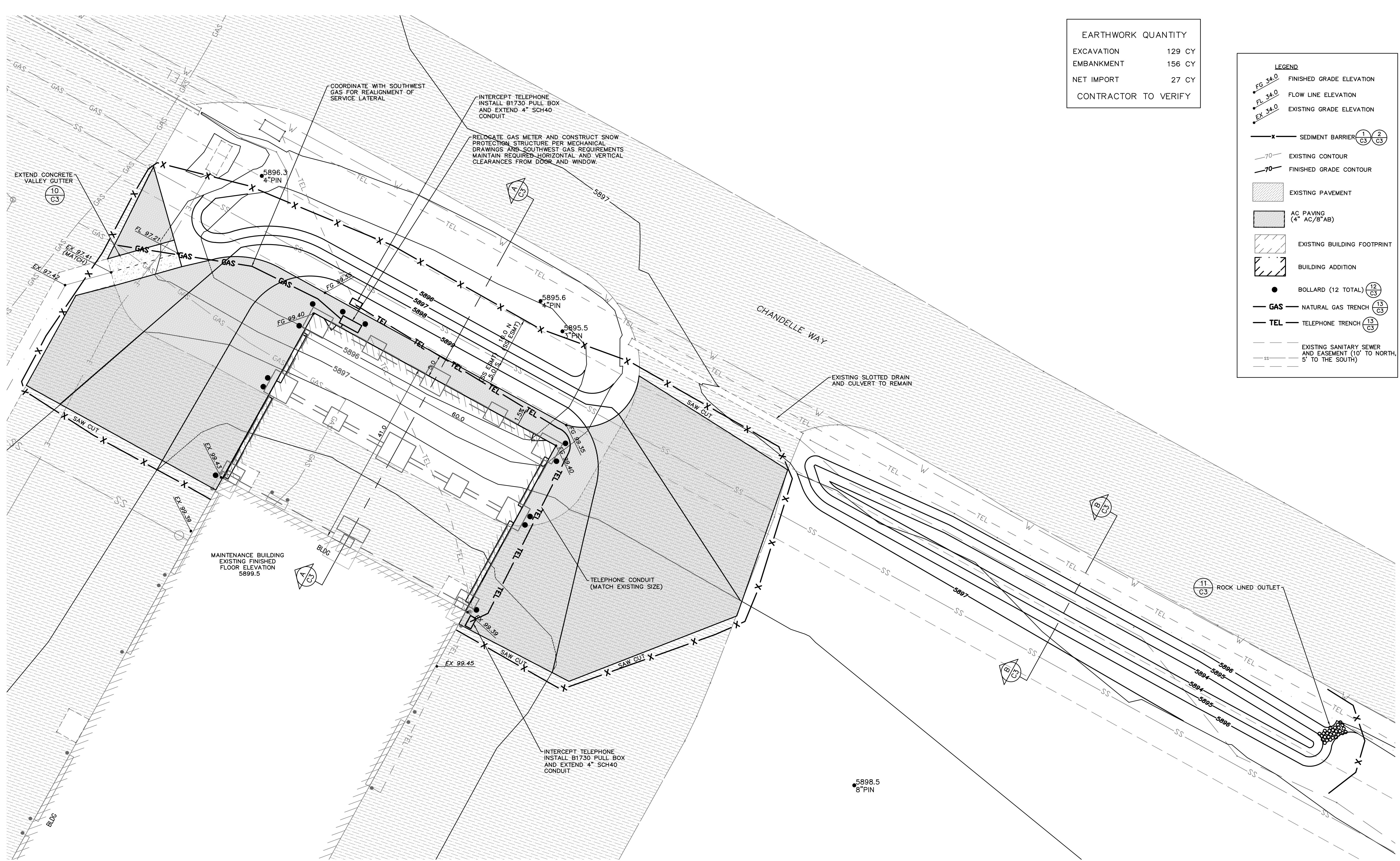
CLIENT NAME:
TRUCKEE TAHOE AIRPORT DISTRICT
10356 TRUCKEE AIRPORT ROAD
TRUCKEE, CA 96161
(530) 587-4119

FILE:
TTAD Maintenance Bldg Addition.dwg
SCALE:
NO SCALE
DATE:
15 DECEMBER 2016

REVISIONS:

DESCRIPTION:
SITE PLAN

SHEET:
C1



EARTHWORK QUANTITY	
EXCAVATION	129 CY
EMBANKMENT	156 CY
NET IMPORT	27 CY
CONTRACTOR TO VERIFY	

LEGEND

- FG 34.0 FINISHED GRADE ELEVATION
- FL 34.0 FLOW LINE ELEVATION
- EX 34.0 EXISTING GRADE ELEVATION
- X SEDIMENT BARRIER (1 C3 2 C3)
- 70- EXISTING CONTOUR
- 70- FINISHED GRADE CONTOUR
- EXISTING PAVEMENT
- AC PAVING (4" AC/S'AB)
- EXISTING BUILDING FOOTPRINT
- BUILDING ADDITION
- BOLLARD (12 TOTAL) (12 C3)
- GAS NATURAL GAS TRENCH (13 C3)
- TEL TELEPHONE TRENCH (13 C3)
- EXISTING SANITARY SEWER AND EASEMENT (10' TO NORTH, 5' TO THE SOUTH)

ACUMEN ENGINEERING COMPANY
 ph 530.550.8068 Post Office Box 3497
 fax 530.550.8069 Truckee, CA 96160

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12116 CHANDELLE WAY
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 10356 TRUCKEE AIRPORT ROAD
 TRUCKEE, CA 96161
 (530) 587-4119

FILE:
 TTAD Maintenance Bldg Addition.dwg
 SCALE:
 NO SCALE
 DATE:
 15 DECEMBER 2016

REVISIONS:

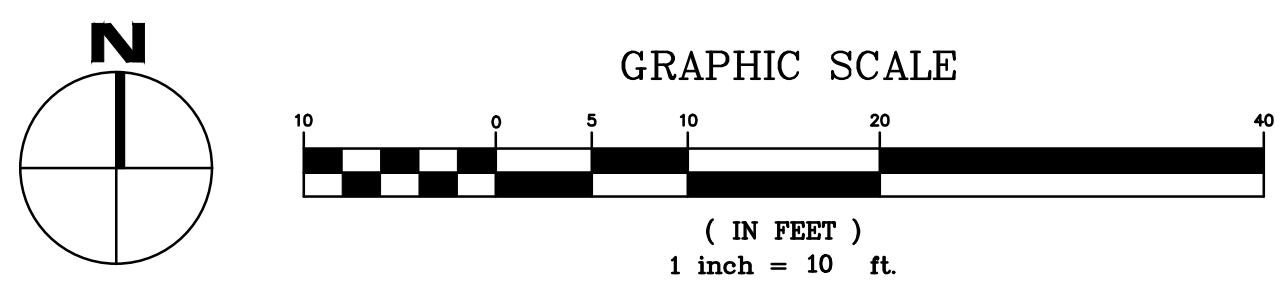
DESCRIPTION:
**TEMPORARY
 EROSION CONTROL,
 GRADING, DRAINAGE,
 AND UTILITY PLAN**

SHEET:
C2
 OF 3 SHEETS

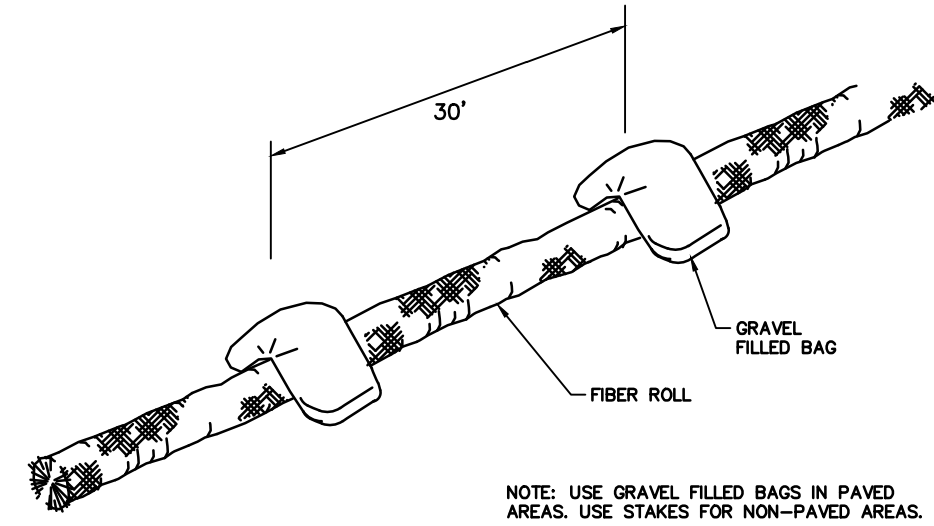


NOTE
 THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPE, CONDUIT, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

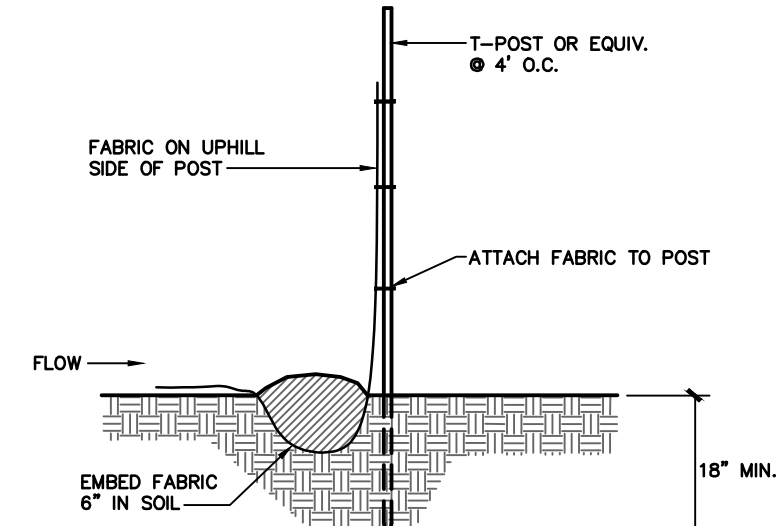
ALL FILLS TO BE COMPACTED PER SOILS REPORT. PROVIDE REQUIRED DOCUMENTATION TO BUILDING OFFICIAL PRIOR TO CONSTRUCTION OF BUILDING.



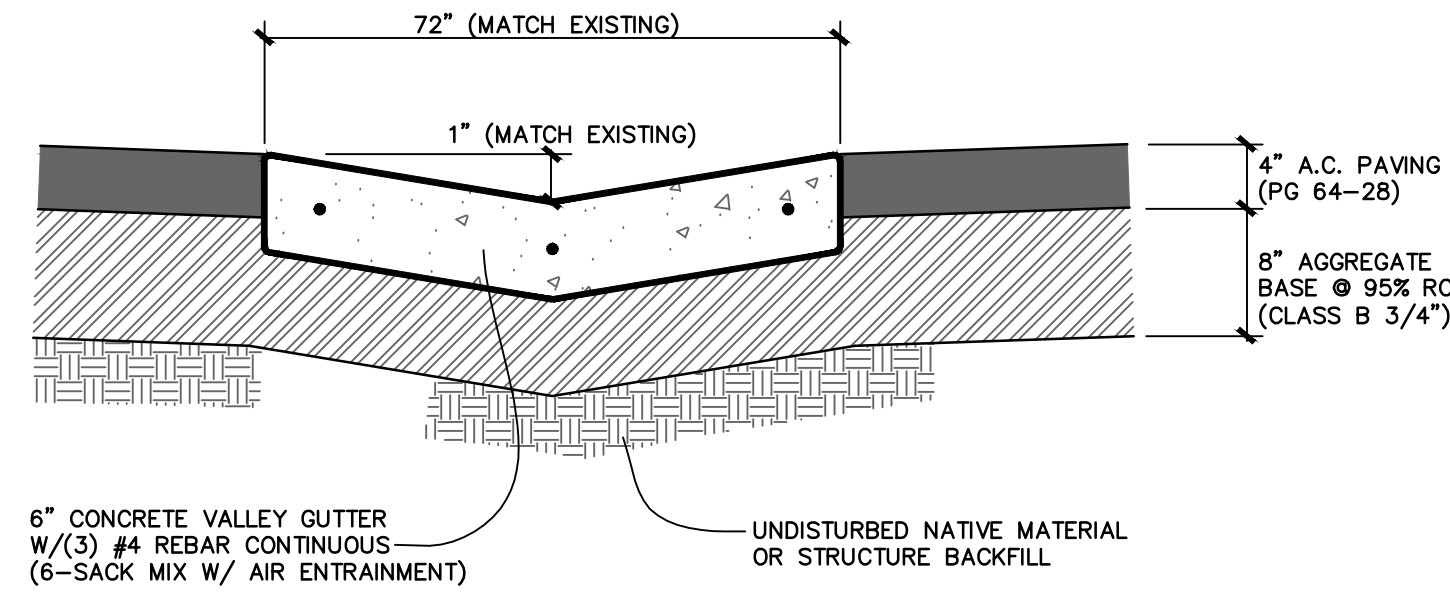
BID SET
 REGISTERED PROFESSIONAL ENGINEER
 WILLIAM G. QUESADA
 No. 46801
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA
William G. Quesada
 12/15/2016



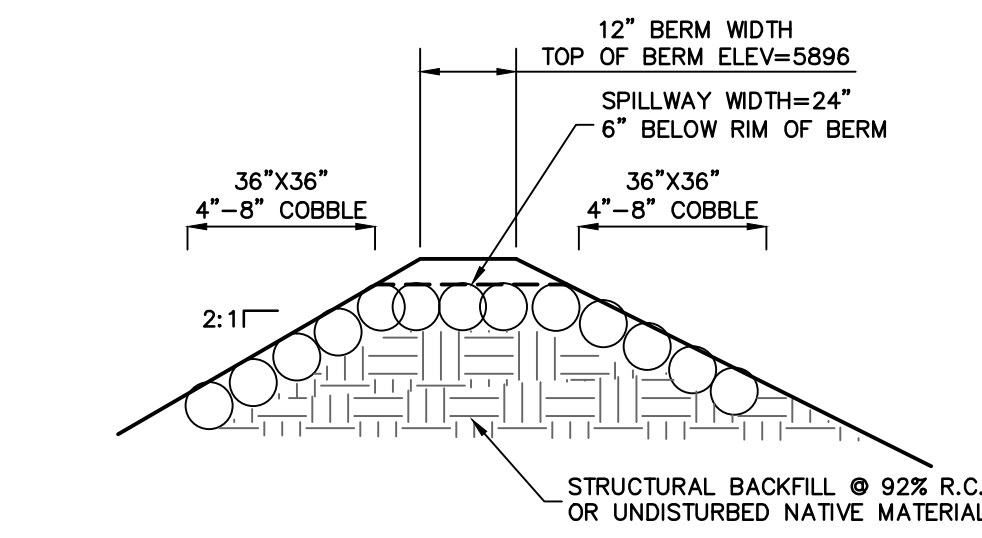
1 SEDIMENT BARRIER
N.T.S.



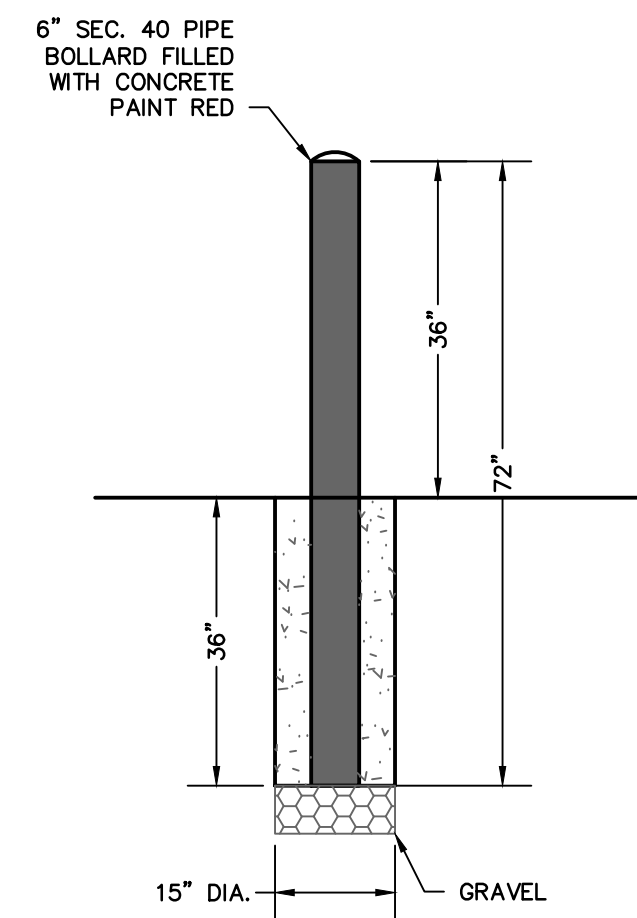
2 SEDIMENT BARRIER
N.T.S.



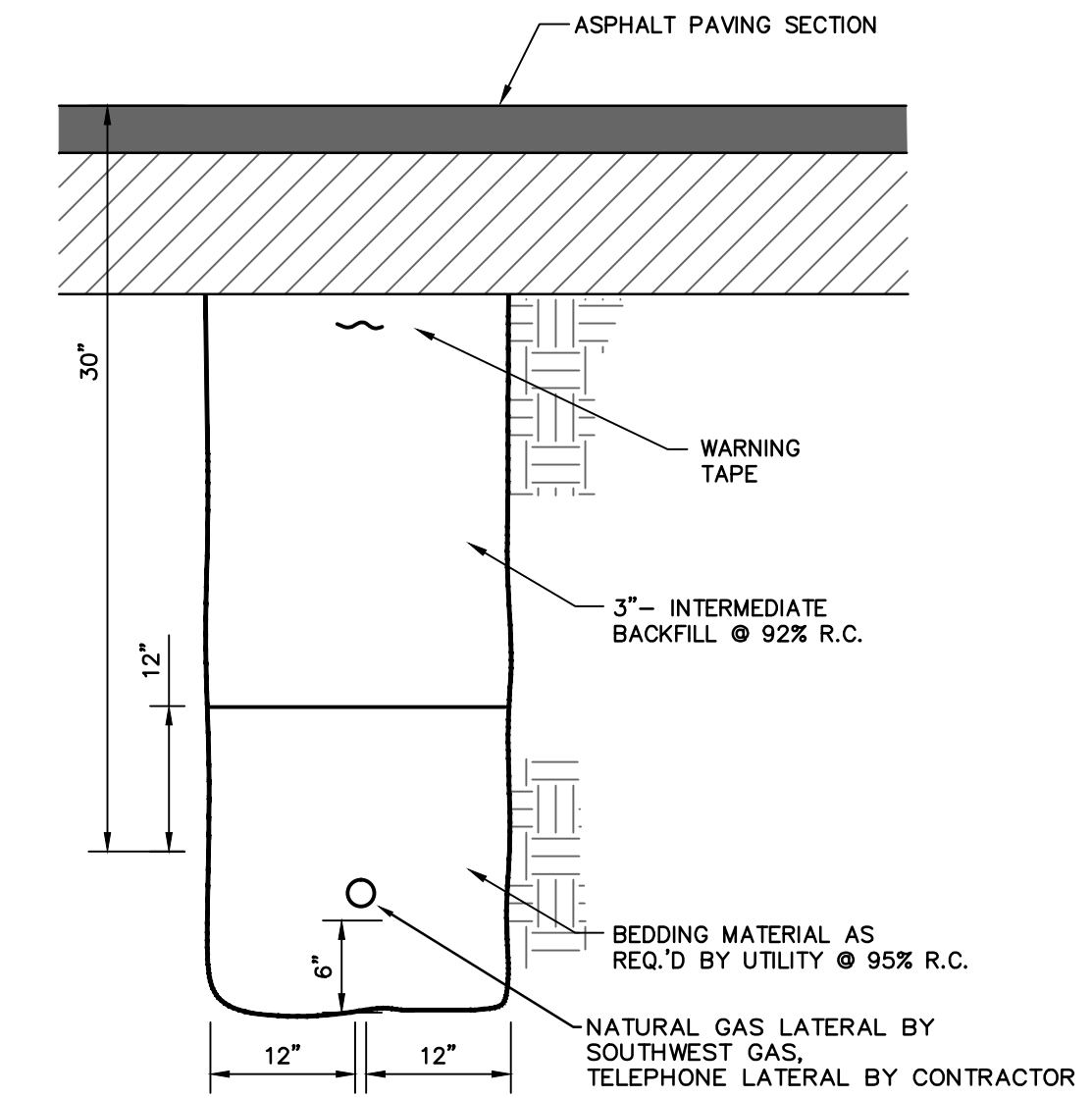
10 VALLEY GUTTER
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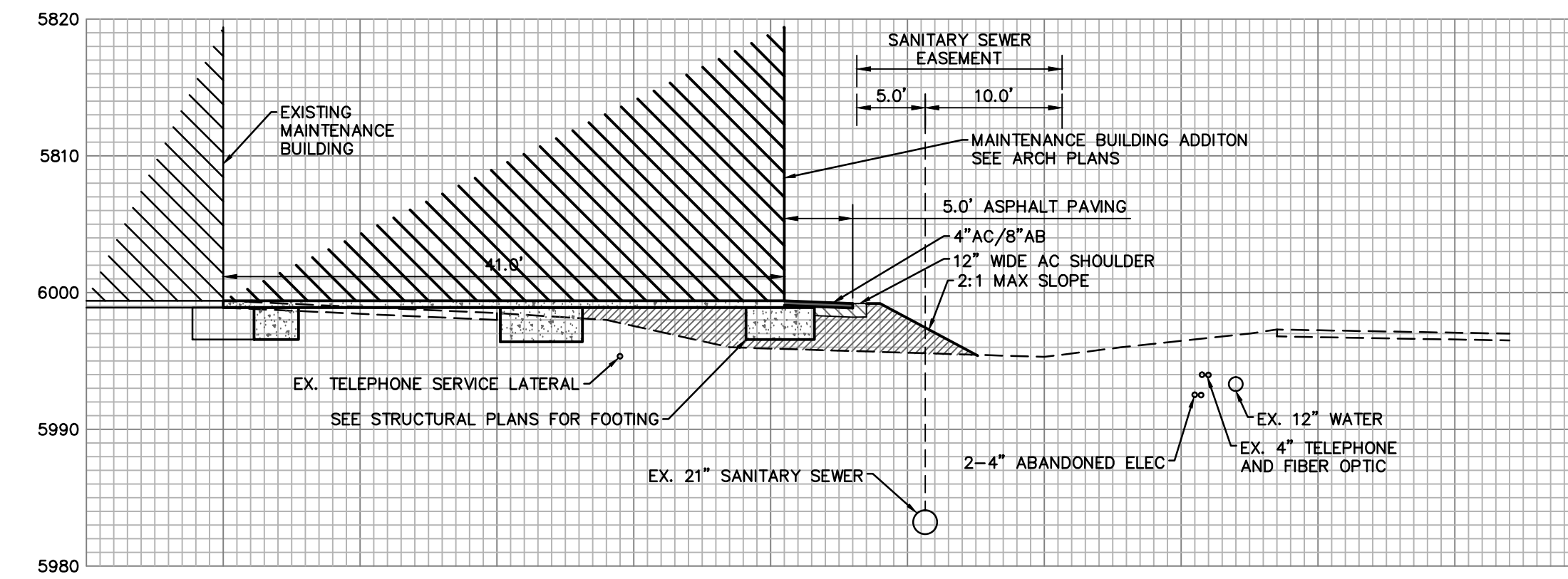
11 ROCK LINED OUTLET
NO SCALE



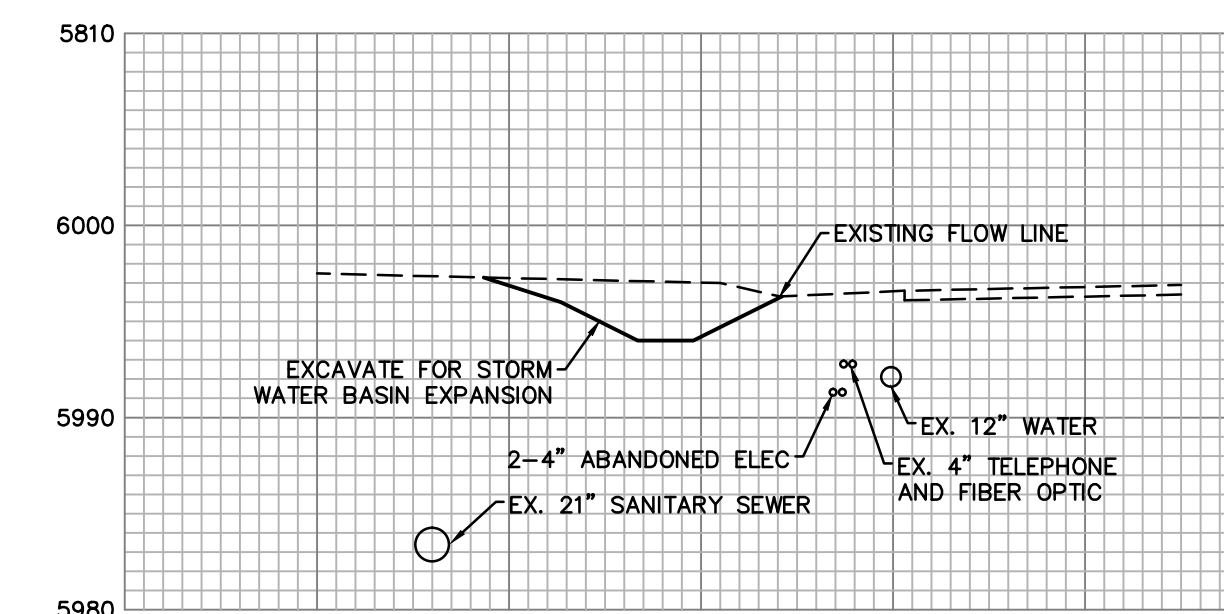
12 BOLLARD
NO SCALE



13 UTILITY TRENCH
NO SCALE



SECTION A-A
1"=10'



SECTION B-B
1"=10'

BID SET



**ACUMEN
ENGINEERING
COMPANY**

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fax 530.550.8069 Truckee, CA 96160

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SCALE: AS NOTED

DATE: 15 DECEMBER 2016

REVISIONS:

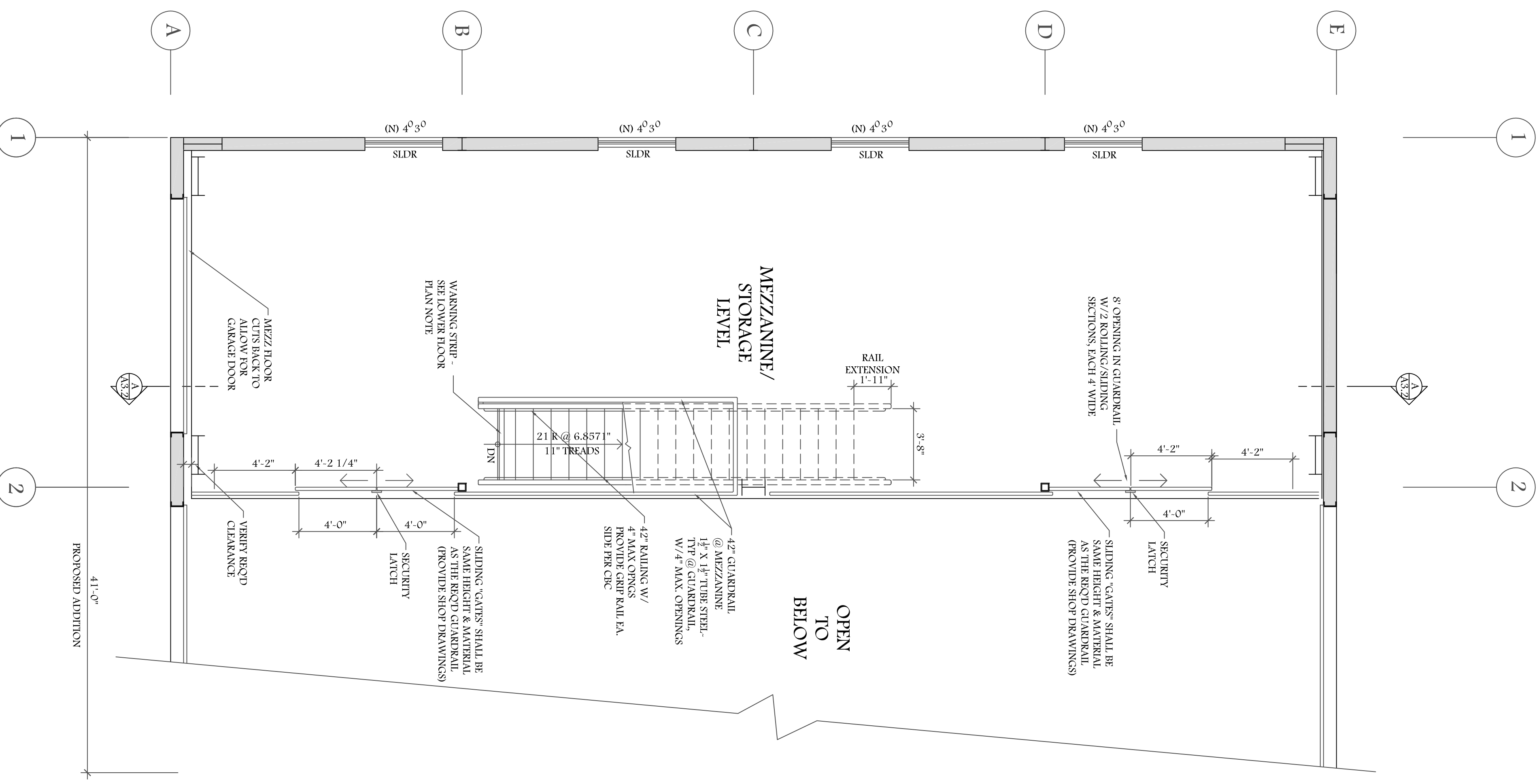
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DETAILS

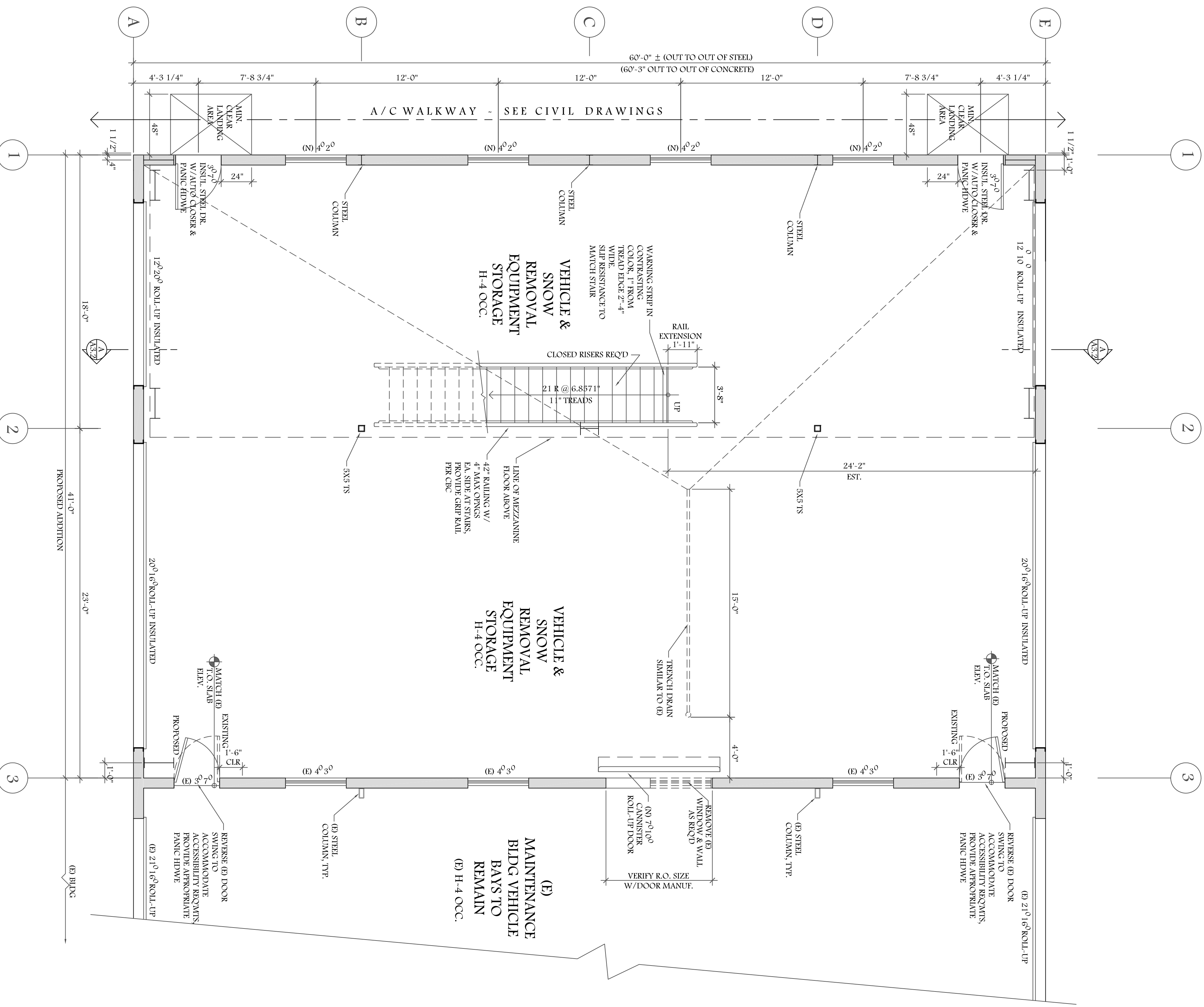
SHEET:

C3

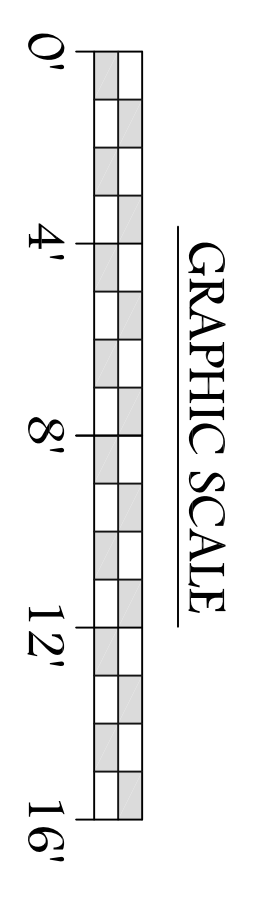
OF 3 SHEETS



UPPER FLOOR PLAN
1110 S.F. MEZZ & STORAGE



LOWER FLOOR PLAN
2460 S.F. ADDITION



BID SET

General Notes
 BLDG ADDITION TO BE HEATED TO A MAX. 50° F
 SEE SFT S2.1, NOTE 4 FOR LOCATION OF CONC. SLAB CONTROL JOINTS
 ALL ROLL UP DOORS ARE ELECTRICALLY OPERATED, SEE ELECTR. SHEETS.
 PROVIDE 3/4" PLYWOOD SHEATHING ON INTERIOR SIDE OF ADDED WALLS, UP TO 8' HEIGHT, PAINTED, ON BOTH LOWER & MEZZ LEVELS
 GAS METER SHED ON NORTH WALL TO COMPLY WITH WINDOW AND DOOR CLEARANCE REQUIREMENT, AND SHALL NOT ENCRACH INTO LANDING AREA.

Revisions

No.	Description	Date

Project: AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION

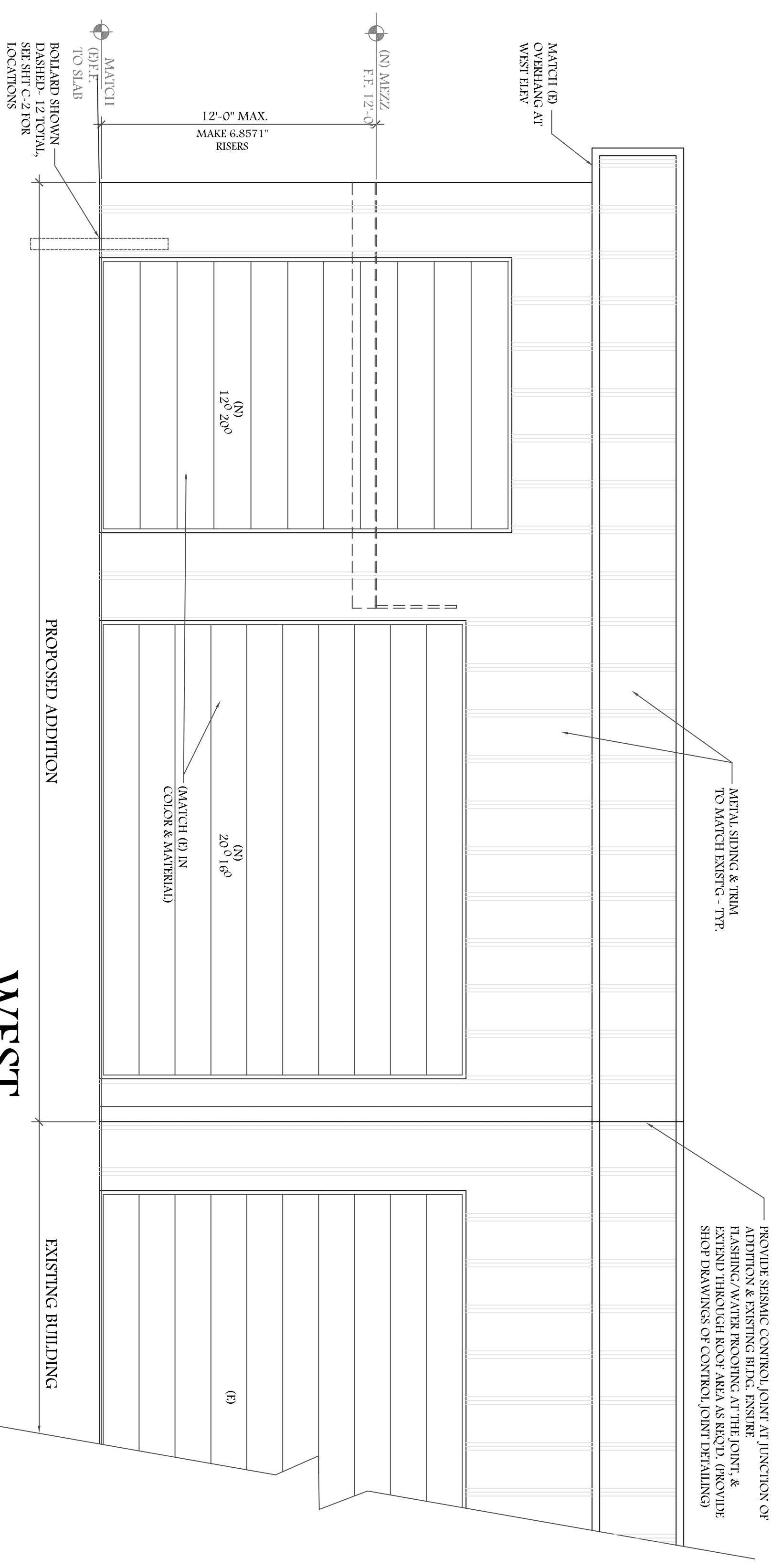
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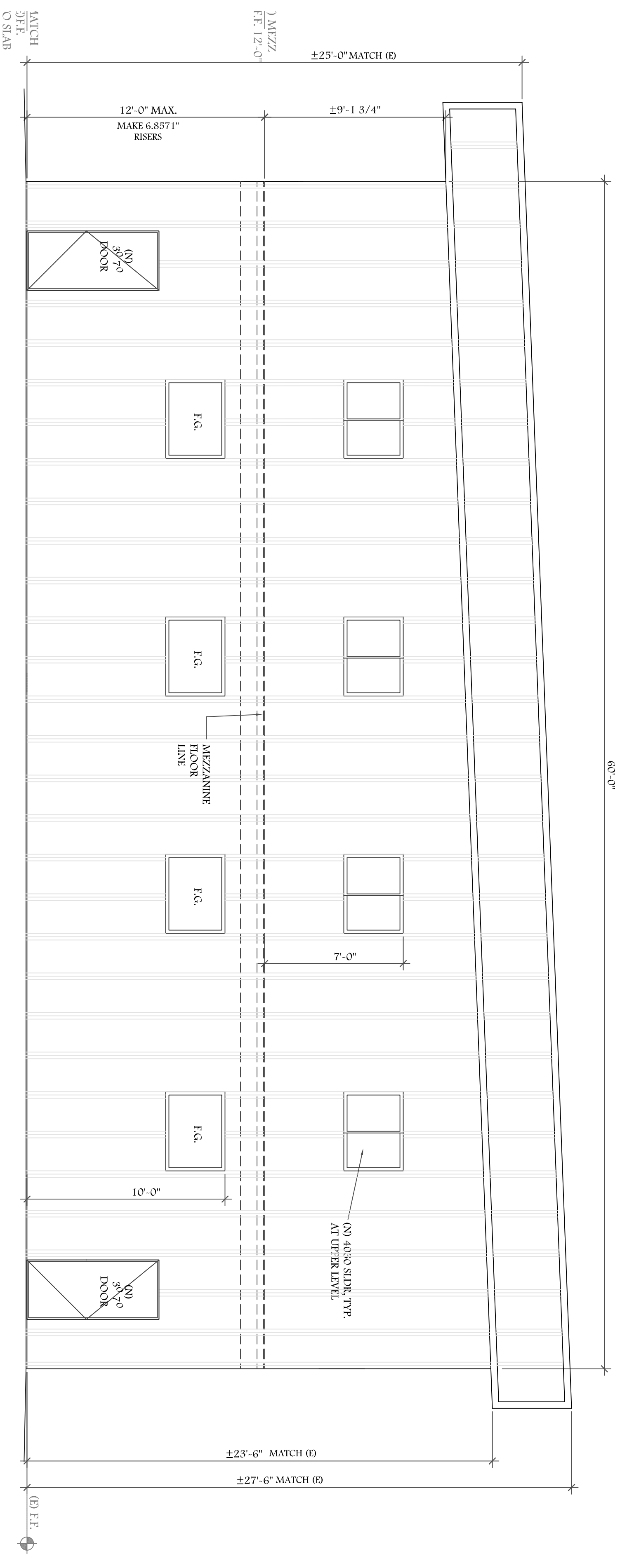
Date: 12/15/16
 Drawn: PAD
 Revised: PG
 Scale: 1/4" = 1'-0"

Sheet No. **A2.1**

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WEST



NORTH

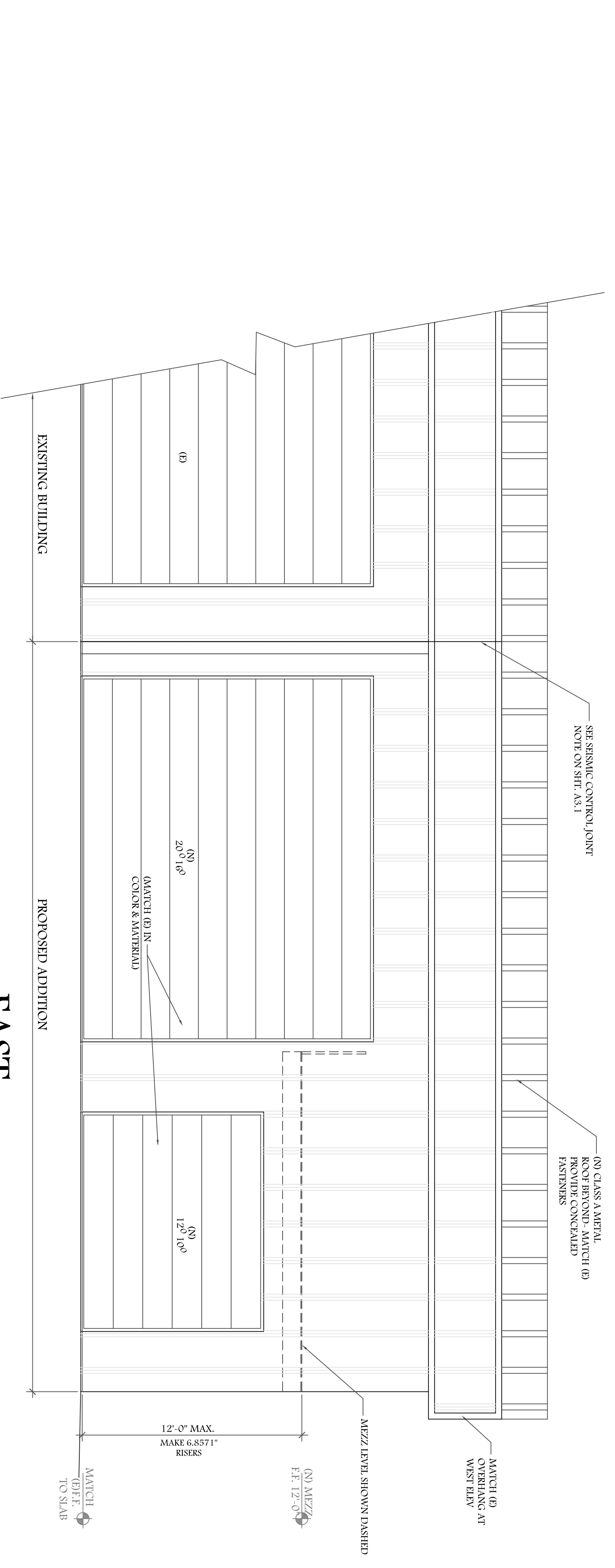
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BID SET

Project: **AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION**
 No. _____ Revision _____ Date _____
 Drawn: PAD
 Reviewed: PG
 Scale: 1/4" = 1'-0"

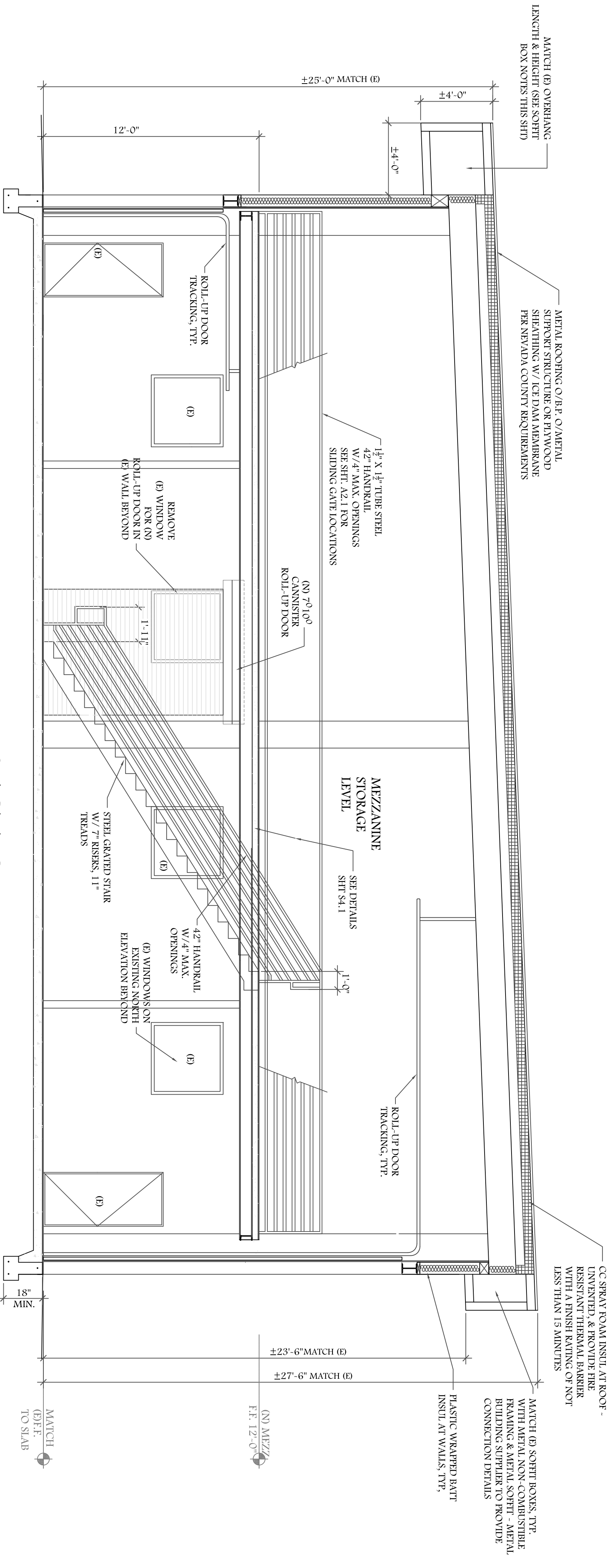
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Date	12/15/16	Sheet No.	
Drawn	PAD	<h1 style="margin: 0;">A3.1</h1>	of _____
Reviewed	PG		
Scale	1/4" = 1'-0"		



EAST

SECTION



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BID SET

General Notes
 BUILDING INSULATION:
 ROOF: R-38
 WALLS: R-21
 * ALL EXPOSED INSULATION IS REQ'D TO BE ASTM E84 FLAME/SMOKE COMPLIANT

Project: **AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION**

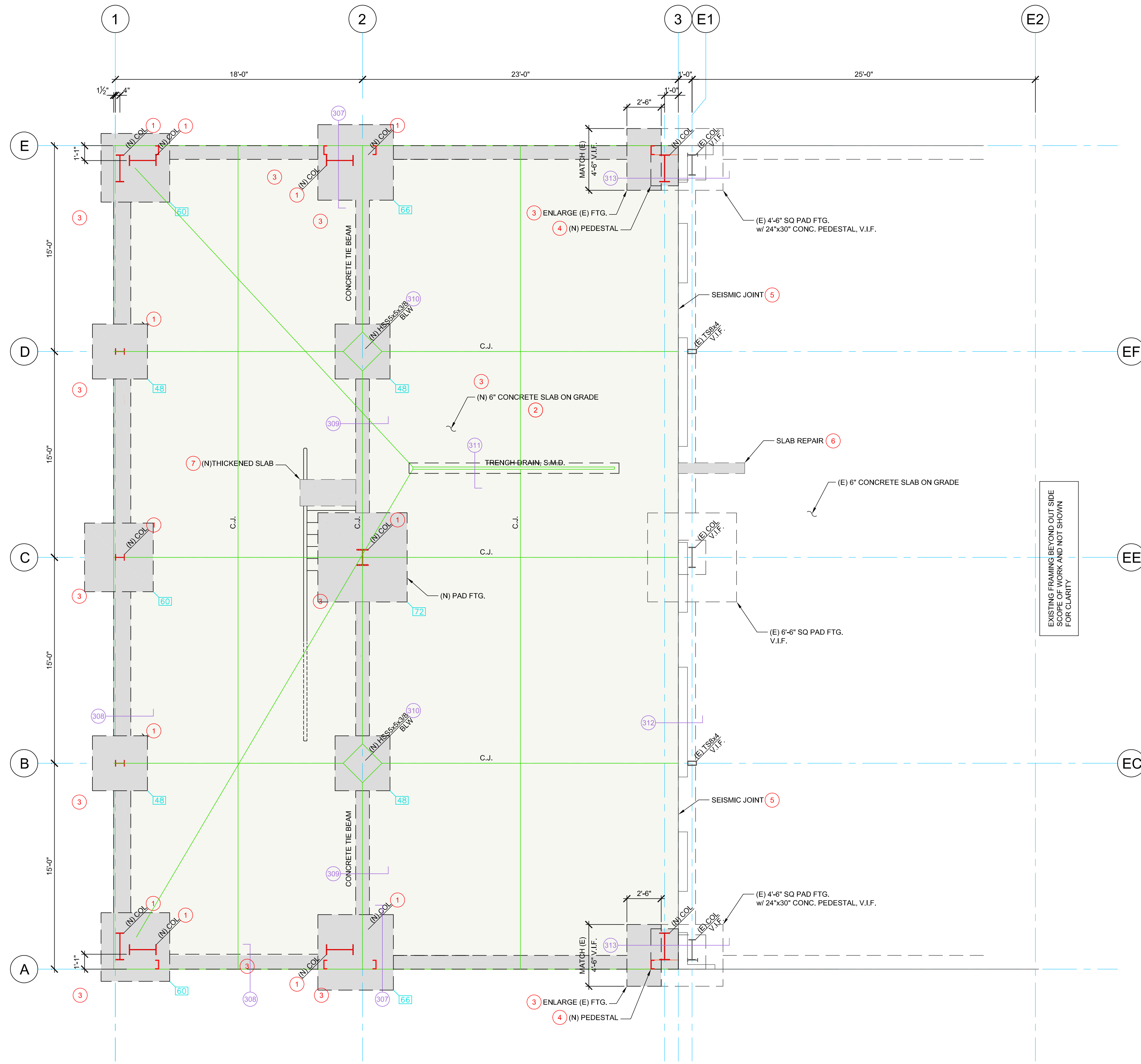
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Date	12/15/16	Sheet No.	
Drawn	PAD	Scale	A3.2
Reviewed	RG		
Scale		1/4" = 1'-0"	

AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION
FOUNDATION & MEZZANINE FRAMING

PLAN GRAPHIC LEGEND (BEST IN COLOR)

	NEW CONCRETE SLAB ON GRADE
	NEW CONCRETE FOOTING
	STEEL BEAM
	HUNG
	BEARING
	MOMENT CONNECTION
	PAD FOOTING TAG
	HSS COL BELOW
	POST OR COL ABOVE
	WIDE FLANGE COL BELOW
	WIDE FLANGE COL ABV
	GENERAL SECTION DETAIL
	SPECIFIC LOCATION DETAIL
	KEYNOTE



- GENERAL PLAN NOTES**
- FOUNDATION:**
- REFER TO GEOTECHNICAL REPORT BY HOLDREGE & KULL DATED FEB. 17, 2016.
 - ALL EXTERIOR FOOTINGS SHALL HAVE MINIMUM 24" FROST PROTECTION, U.N.O.
 - BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 - SLAB CONTROL JOINT PATTERN SHALL BE PROVIDED AS A MINIMUM @ 15 FT. O.C. @ INTERIOR SLABS OR 6 FT. O.C. @ EXTERIOR PATIOS, EACH WAY, U.N.O.
 - SEE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS IF APPLICABLE.
- PLAN KEYNOTES**
- COLUMN BY METAL BUILDING MANUFACTURER. REFER TO METAL BUILDING SHOP DRAWINGS FOR COLUMN MEMBER SIZE AND BASE PLATE DETAILS.
 - 6" CONCRETE SLAB ON GRADE W/ #4 @ 12" O.C. EACH WAY (MID-DEPTH). UNDERLAYMENT DESIGNED BY OTHERS (REFER TO GEOTECHNICAL REPORT).
 - (E) FTG TO BE ENLARGED AS INDICATED ON PLAN. FOOTING REINFORCING SHALL BE DRILLED & EPOXIED INTO FACE OF EXISTING FTG. PER DETAIL 313.
 - (N) CONCRETE PEDESTAL BELOW (N) METAL BUILDING COLUMN. VERTICAL PEDESTAL REINFORCING AND COLUMN ANCHOR BOLTS SHALL BE DRILLED & EPOXIED INTO TOP OF EXISTING FOOTING.
 - PROVIDE SEISMIC SEPARATION BETWEEN NEW AND EXISTING STRUCTURES PER ASCE 7-10, SECTION 12.12.3. REFER TO ARCH'D DRAWINGS FOR SEISMIC JOINT DETAILS AT EXTERIOR WALLS AND ROOF. AS AN ALTERNATE, NEW AND EXISTING STRUCTURES COULD BE TIED TOGETHER IF METAL BUILDING MANUFACTURER CAN JUSTIFY THAT THE ADDITION IS DESIGNED SUCH THAT IT DOES NOT INCREASE THE LOAD TO THE EXISTING STRUCTURE.
 - AT LOCATIONS WHERE EXISTING SLAB IS LOCALLY DEMOLISHED TO ALLOW FOR INSTALLATION OF NEW SUB SLAB PLUMBING, CHIP EXISTING CONCRETE OUT WITHOUT DAMAGING EXISTING SLAB REINFORCING. REPLACE SLAB WITH NEW CONCRETE OF AT LEAST 6" THICK. IF EXISTING SLAB REINFORCING IS CUT, REPLACE WITH NEW #3 DOWELS DRILLED AND EPOXIED INTO FACE OF EXISTING SLAB @ 18" O.C., WITH 6" EMBED.
 - PROVIDE THICKENED SLAB (12" THICK) AT LOCATION WHERE STAIR STRINGER LANDS ON SLAB.

PAD FOOTING SCHEDULE

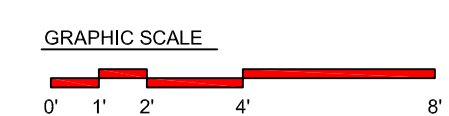
TAG	PAD SIZE	REINFORCING
30	30" SQ x 18" THK	(4) #5 BARS EW T&B
36	36" SQ x 18" THK	(5) #5 BARS EW T&B
42	42" SQ x 20" THK	(6) #6 BARS EW T&B
48	48" SQ x 28" THK	(7) #6 BARS EW T&B
54	54" SQ x 28" THK	(8) #6 BARS EW T&B
60	60" SQ x 28" THK	(9) #6 BARS EW T&B
66	66" SQ x 30" THK	(9) #6 BARS EW T&B
72	72" SQ x 30" THK	(10) #6 BARS EW T&B

- FOOTNOTES**
- Place footings in undisturbed, native soils.
 - Provide concrete pedestal above footing as required to extend minimum 6" above finished grade. See details.

FOOTING SIZES BASED ON ASSUMED COLUMN REACTIONS AND ARE PROVIDED FOR ESTIMATING PURPOSES. ACTUAL FOOTING SIZES WILL NEED TO BE CONFIRMED ONCE LOADS AND REACTIONS ARE PROVIDED BY PRE-MANUFACTURED METAL BUILDING SUPPLIER AND ARE SUBJECT TO CHANGE.

FOUNDATION PLAN

1/4" = 1'-0"



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No.	Revisions
	Date

AIRPORT VEHICAL MAINTENANCE BUILDING ADDITION

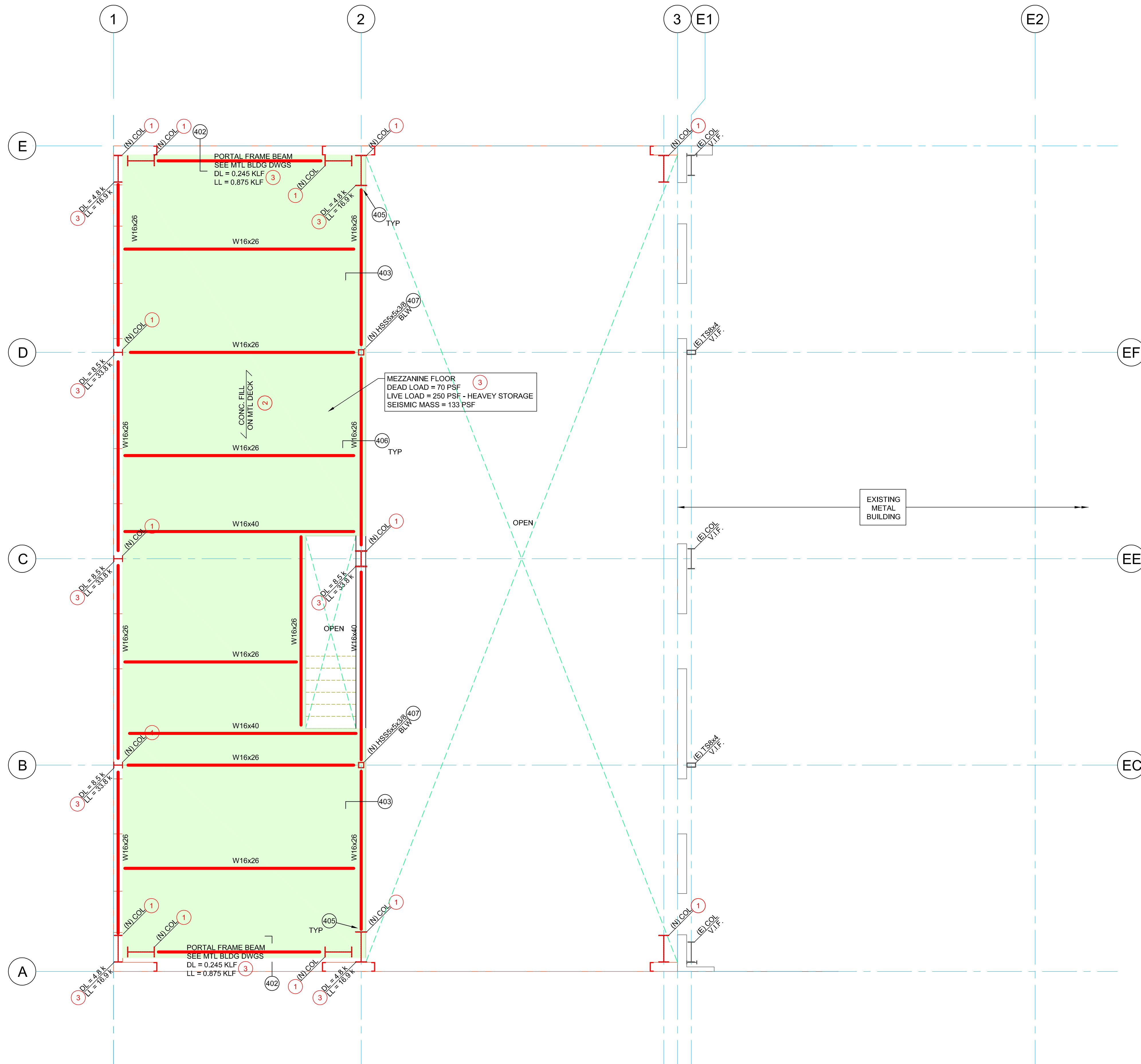
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Date	12/15/16	Sheet No.	S2.1
Drawn	ADH		
Reviewed	RW		
Scale			

PLAN GRAPHIC LEGEND (BEST IN COLOR)

- NEW CONCRETE SLAB ON GRADE
- NEW CONCRETE FOOTING
- STEEL BEAM
- HUNG
- BEARING
- MOMENT CONNECTION
- PAD FOOTING TAG
- HSS COL BELOW
- POST OR COL ABOVE
- WIDE FLANGE COL BELOW
- WIDE FLANGE COL ABV
- GENERAL SECTION DETAIL
- SPECIFIC LOCATION DETAIL
- KEYNOTE



GENERAL PLAN NOTES

FRAMING SYSTEM:

1. STEEL BEAMS SHALL BE ASTM A572 Grade 50.
2. METAL DECK SHALL BE WELDED TO STEEL FRAMING PER SCHEDULE 401.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
4. PROVIDE FLOOR JOISTS BELOW ALL PARALLEL PARTITIONS. BLOCK BELOW PERPENDICULAR PARTITIONS.
5. TOP OF MEZZANINE CONCRETE = +12'-0", S.A.D.
TOP OF MEZZANINE STEEL = +11'-5 1/2", S.A.D.

PLAN KEYNOTES

1. COLUMN BY METAL BUILDING MANUFACTURER. REFER TO METAL BUILDING SHOP DRAWINGS FOR COLUMN MEMBER SIZE AND BASE PLATE DETAILS.
2. 3-1/2" CONCRETE TOPPING OVER 3" 18GA METAL DECK. REFER TO SCHEDULE 401, TAG 'A'.
3. MEZZANINE LOADING IMPOSED ON METAL BUILDING COLUMNS TO BE INCORPORATED INTO METAL BUILDING DESIGN. DL = DEAD LOAD, LL = LIVE LOAD IN KIPS (k) OR KIPS PER LINEAR FOOT (KLF), UN-FACTORED (ASD). METAL BUILDING SHALL ALSO BE DESIGNED FOR 133 PSF SEISMIC MASS FROM MEZZANINE (70 PSF DL + 25% * 250 PSF STORAGE LOAD)

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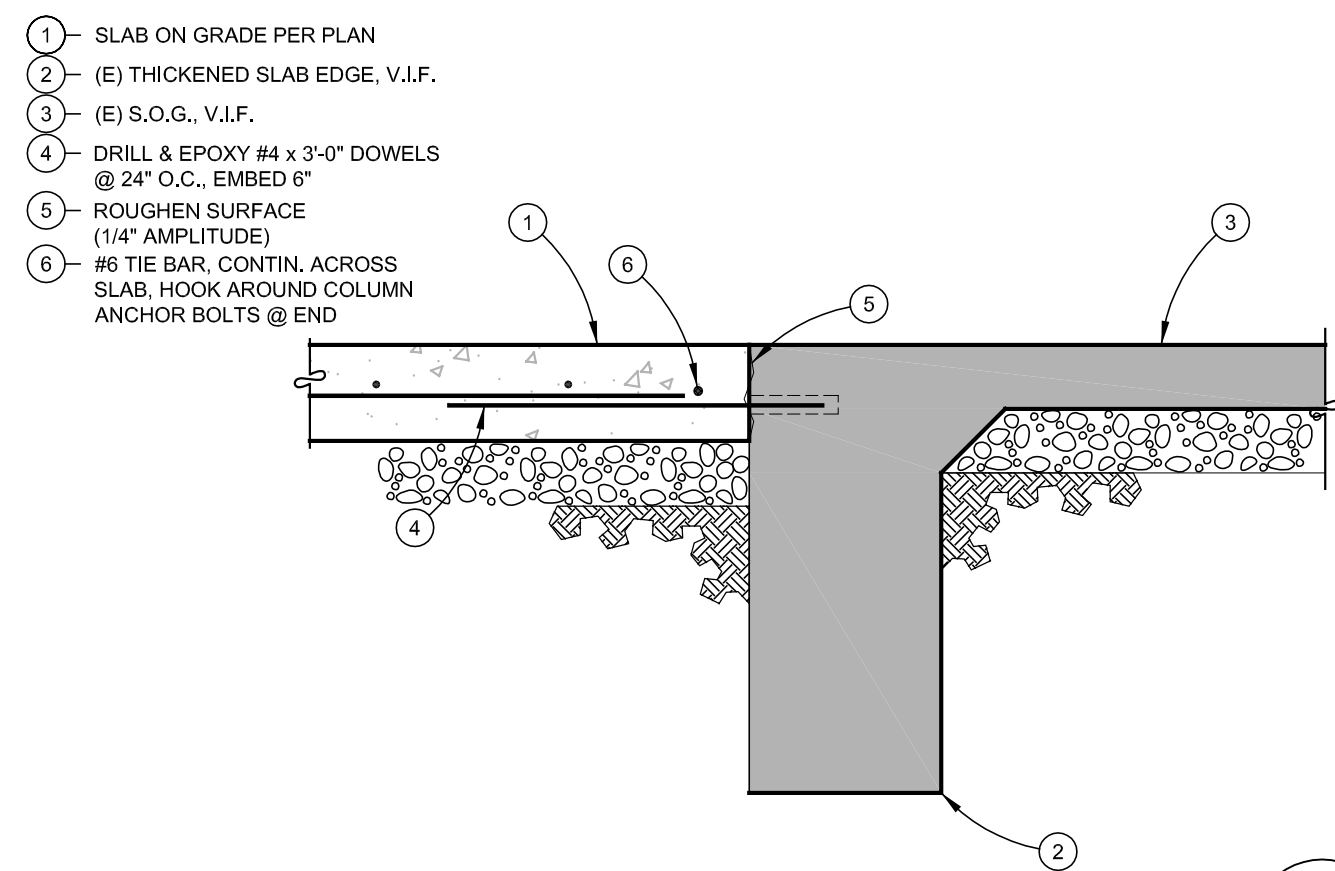
AIRPORT VEHICAL MAINTENANCE BUILDING ADDITION

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Architect

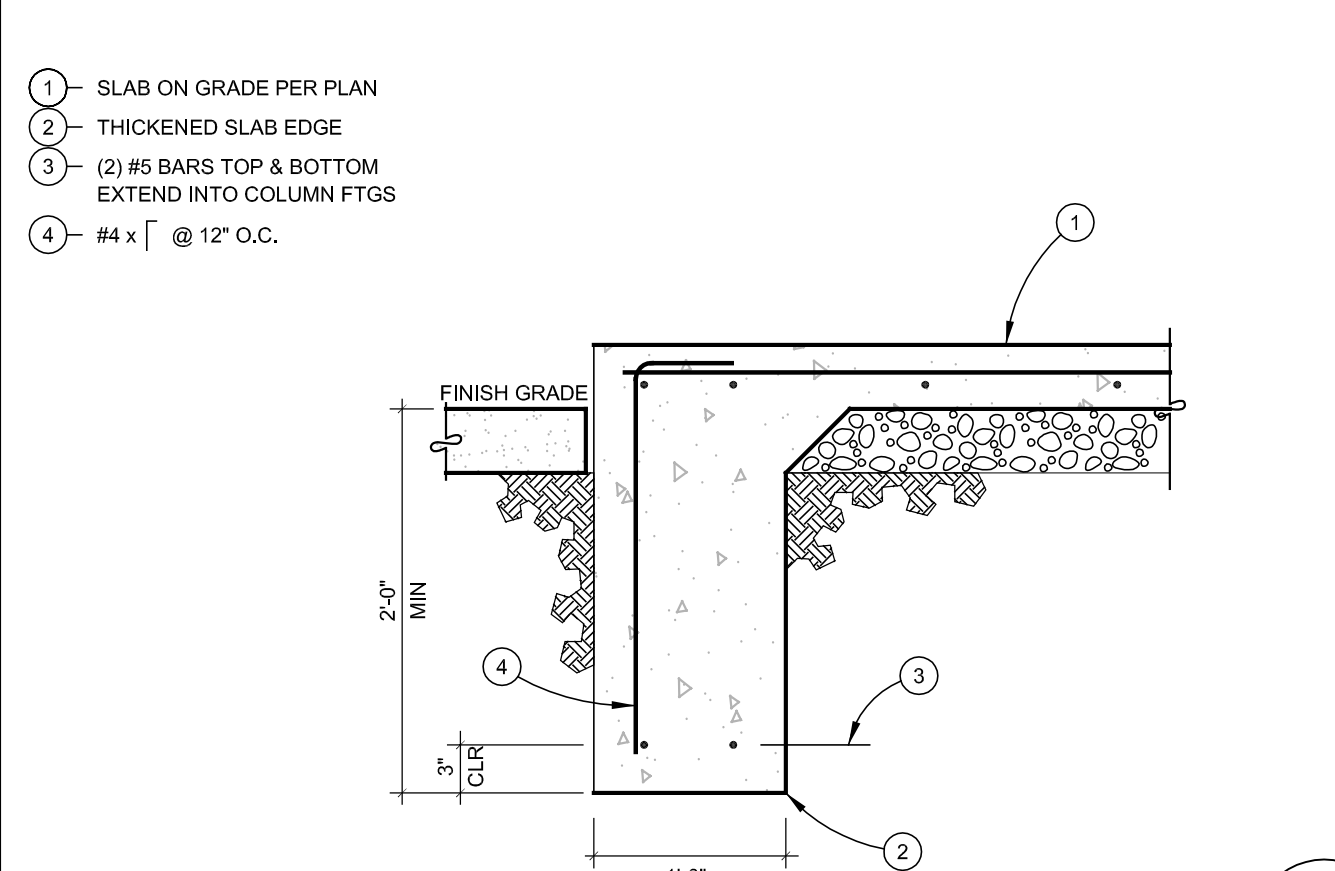
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Date	12/15/16	Sheet No.	S2.2
Drawn	ADH		
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Scale			

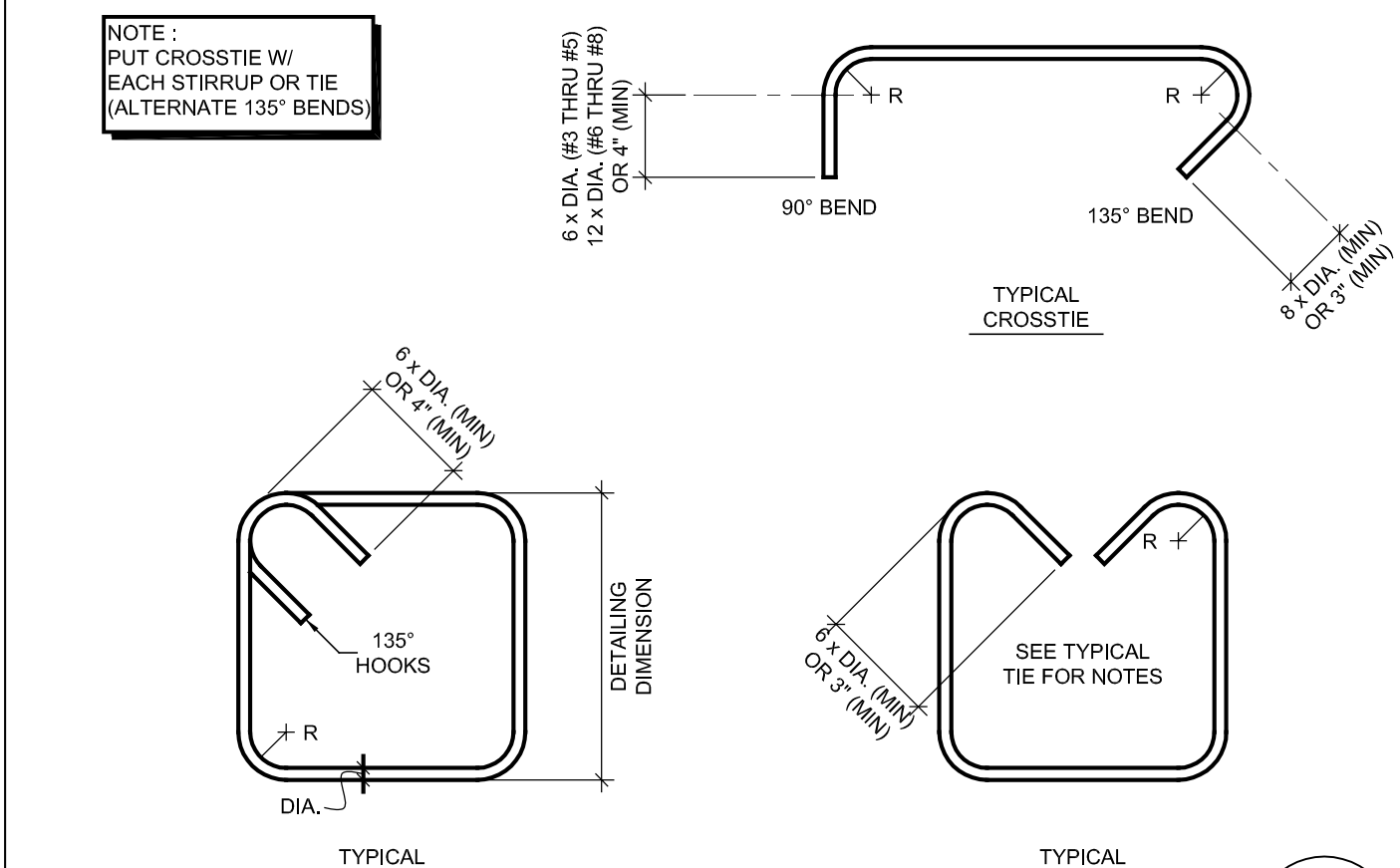
**AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION
FOUNDATION & MEZZANINE FRAMING**



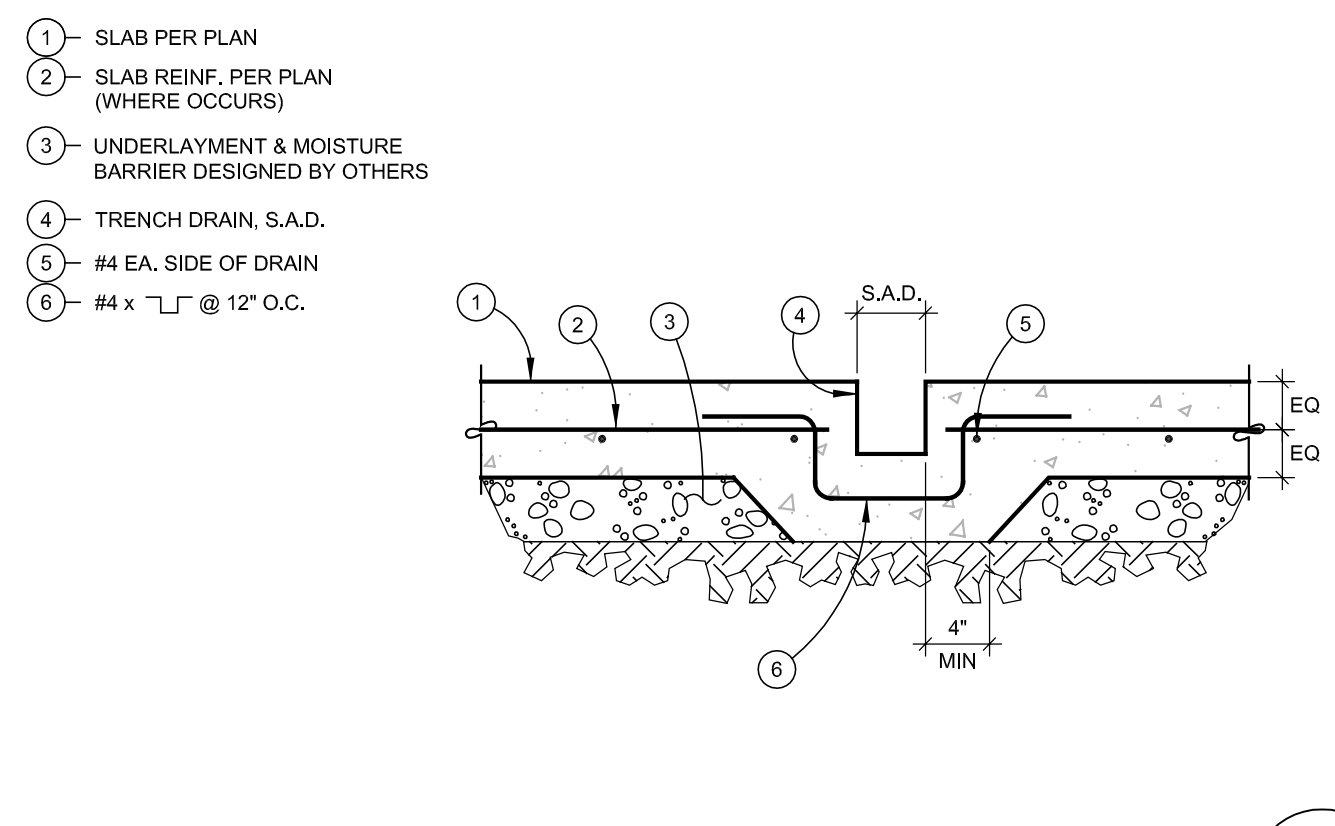
DTL - NEW SLAB @ EXISTING BLDG EDGE
SCALE: 1" = 1'-0"



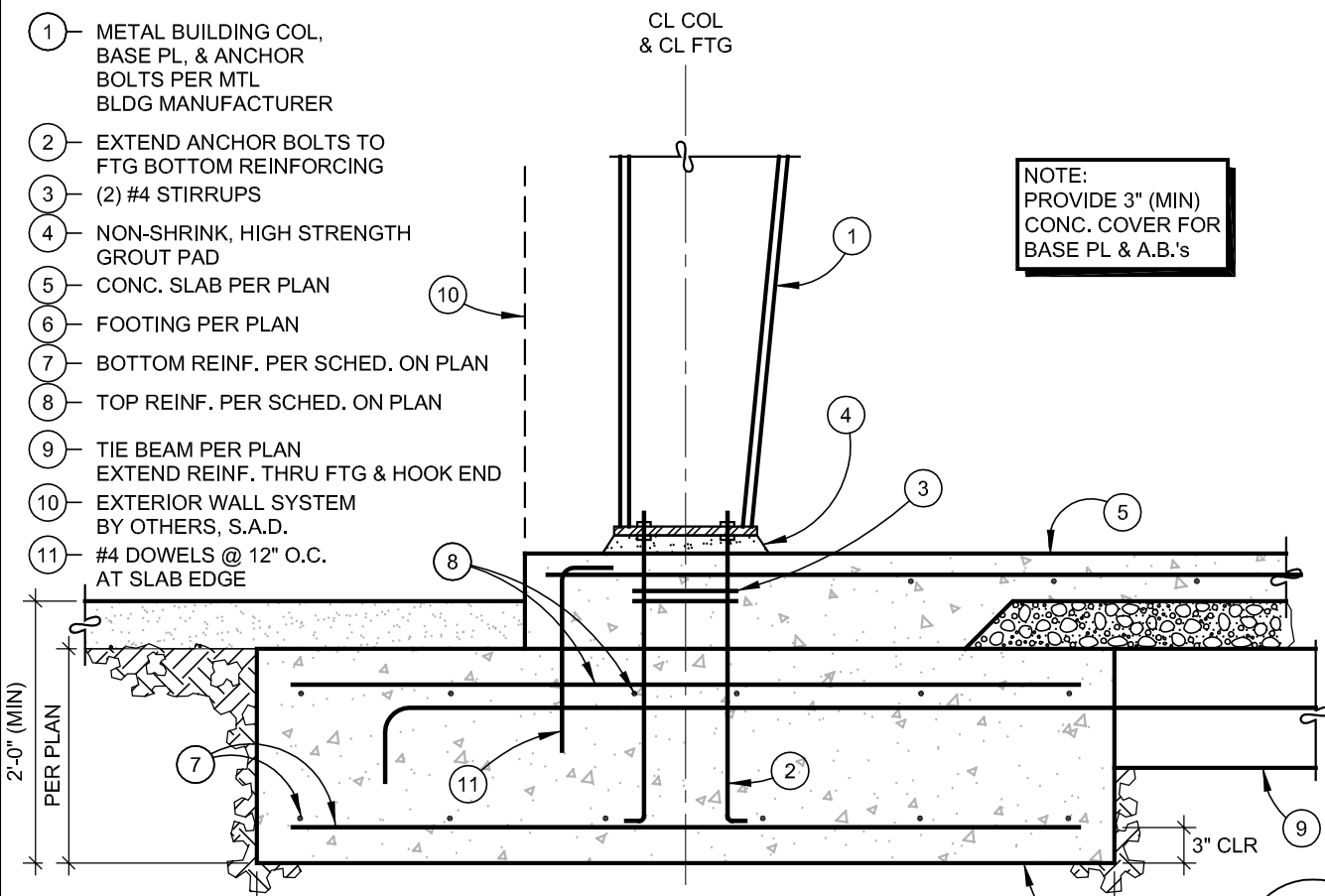
DTL - EXTERIOR SLAB EDGE
SCALE: 1" = 1'-0"



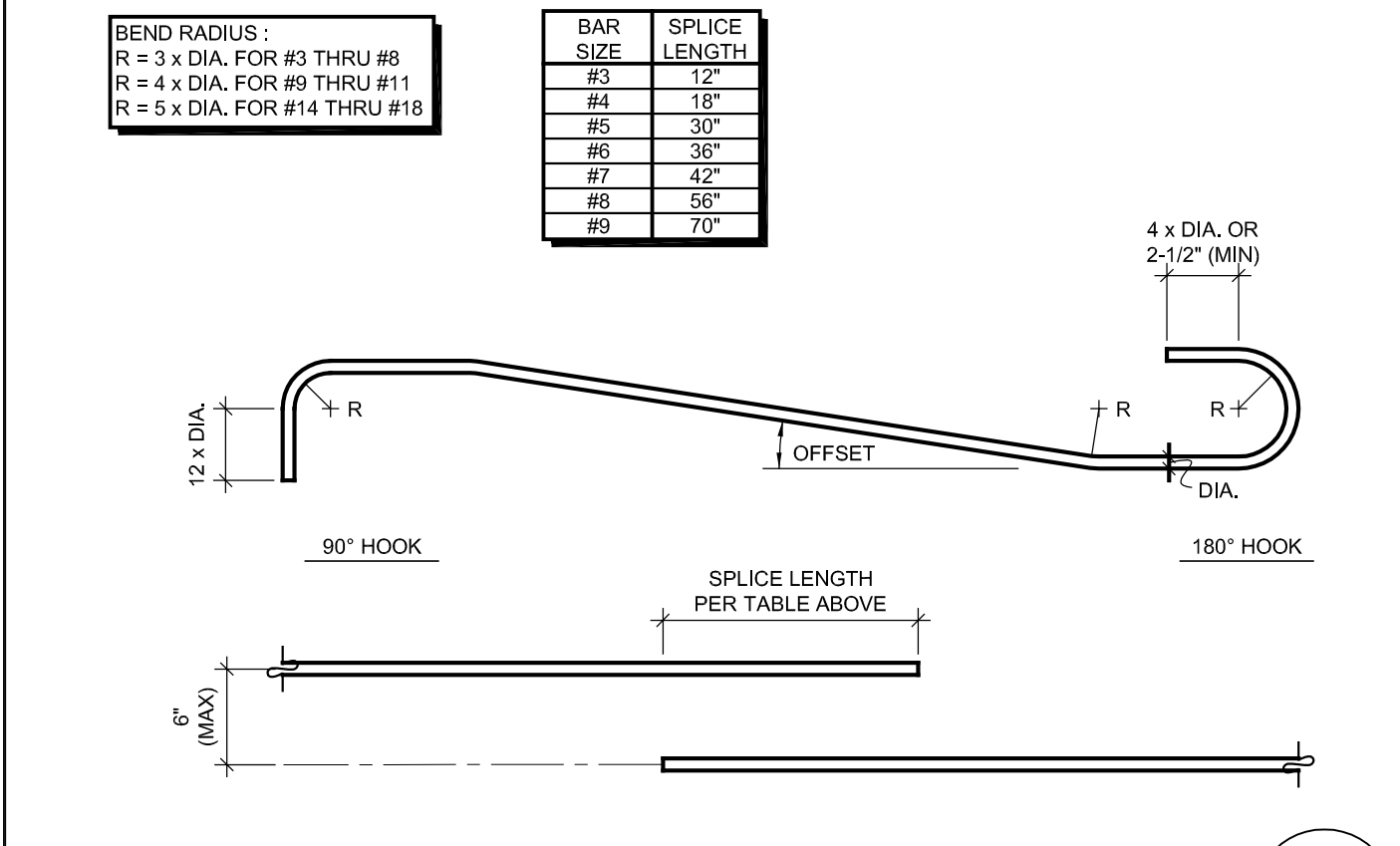
DTL - TYPICAL STIRRUP, TIE HOOKS & BENDS (CONC.)
SCALE: 1" = 1'-0"



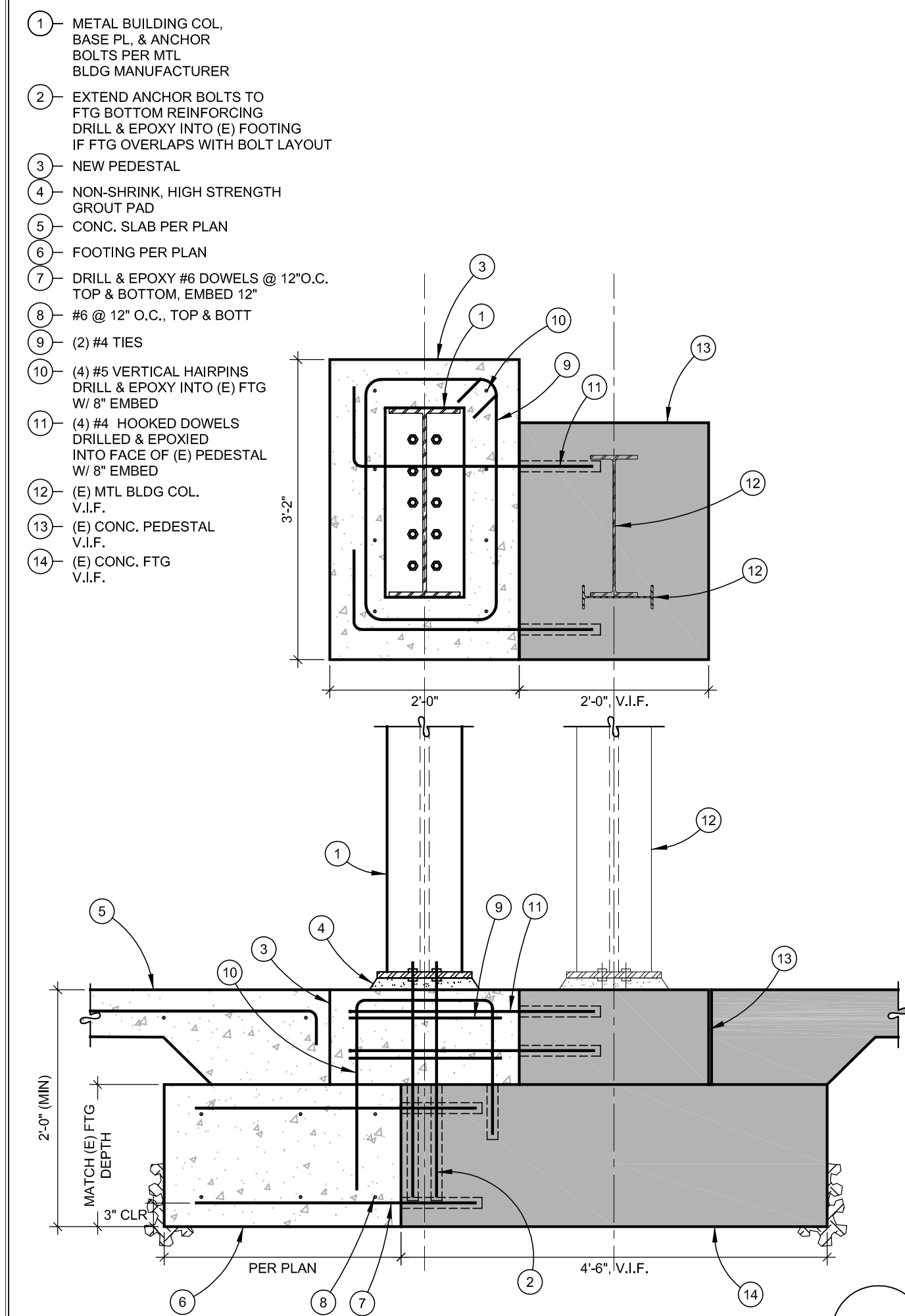
DTL - TYPICAL FLOOR SLAB @ TRENCH DRAIN
SCALE: 1" = 1'-0"



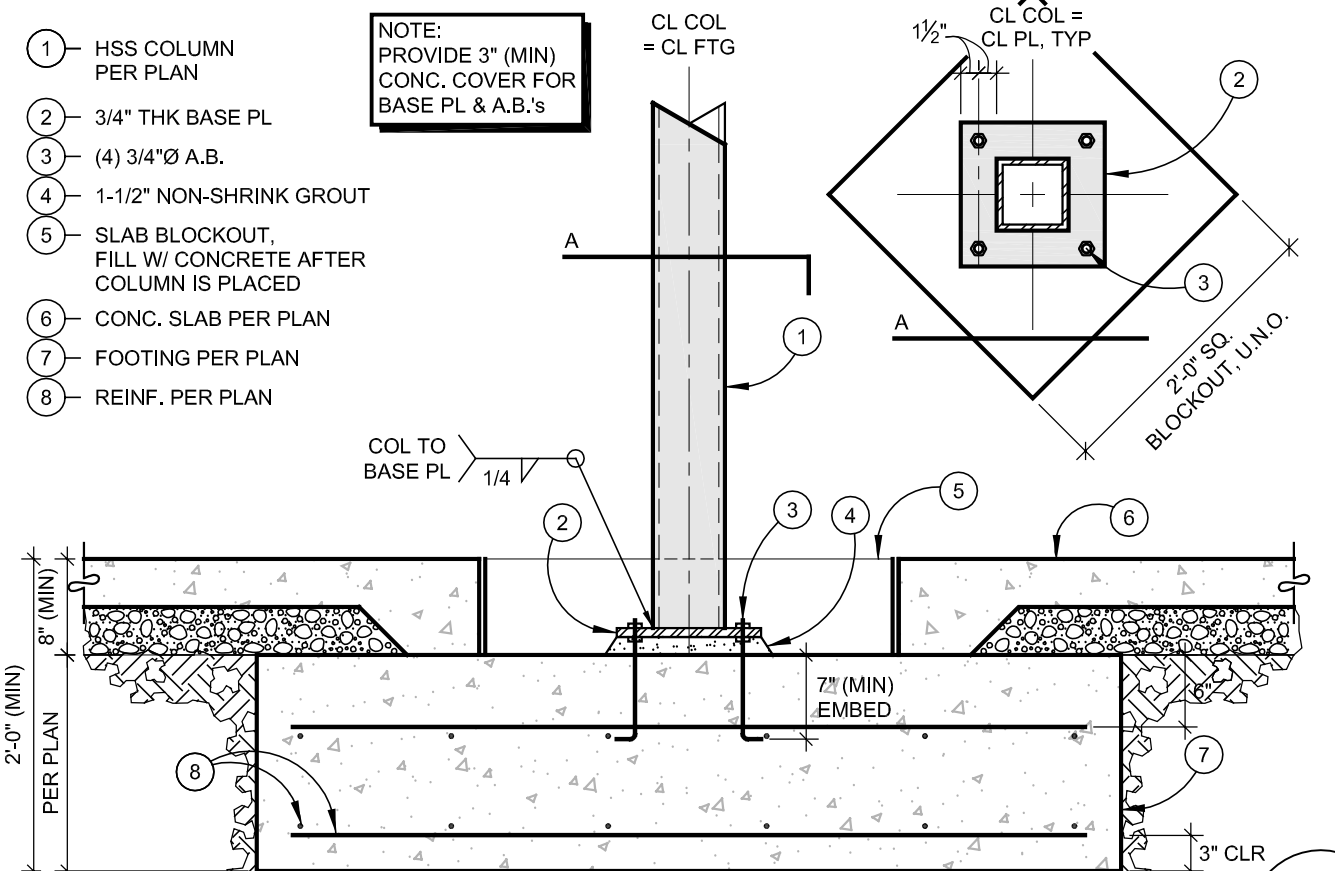
DTL - PERIMETER COLUMN TO FOOTING
SCALE: 3/4" = 1'-0"



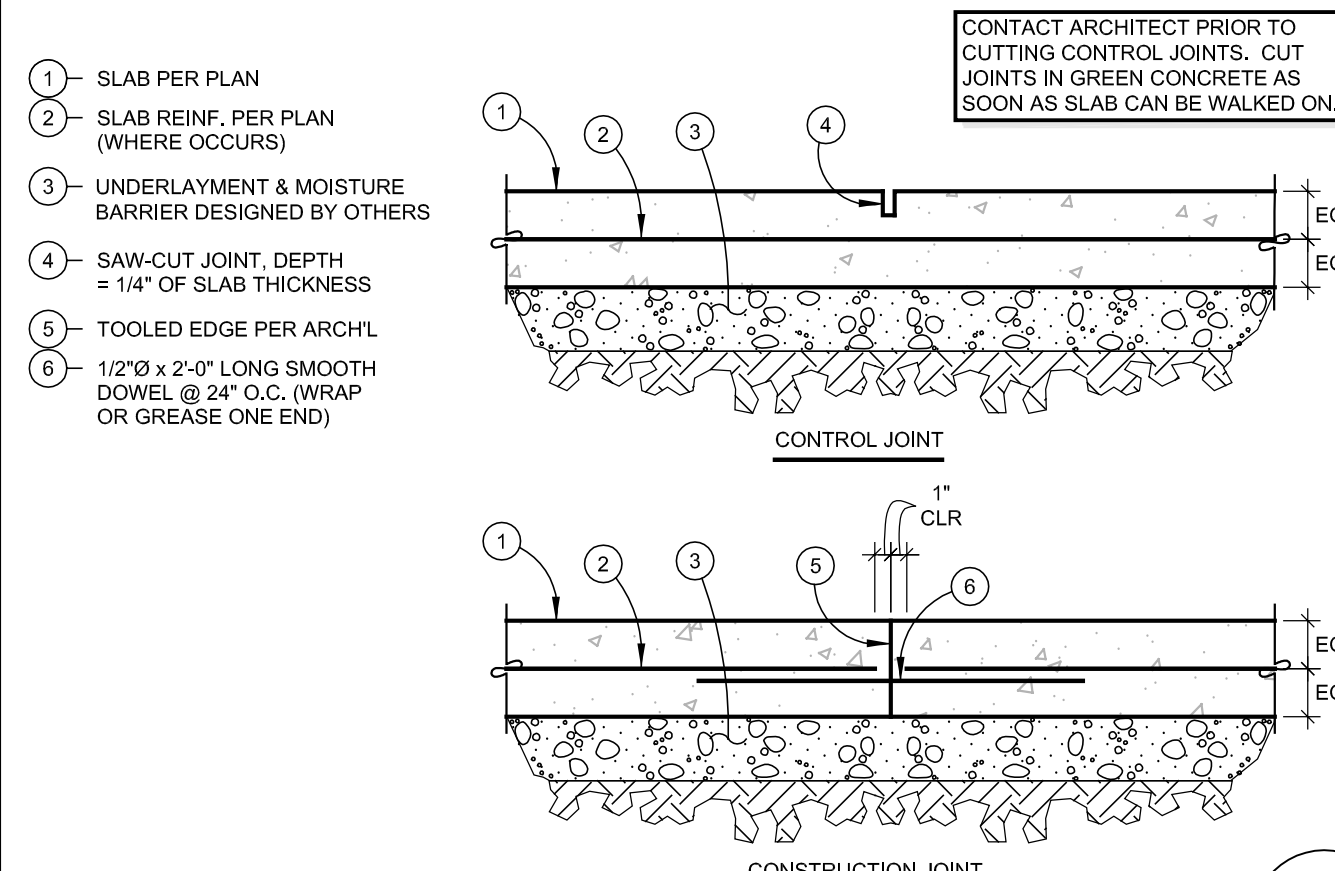
DTL - TYPICAL HOOKS & SPLICE (CONCRETE)
SCALE: 1" = 1'-0"



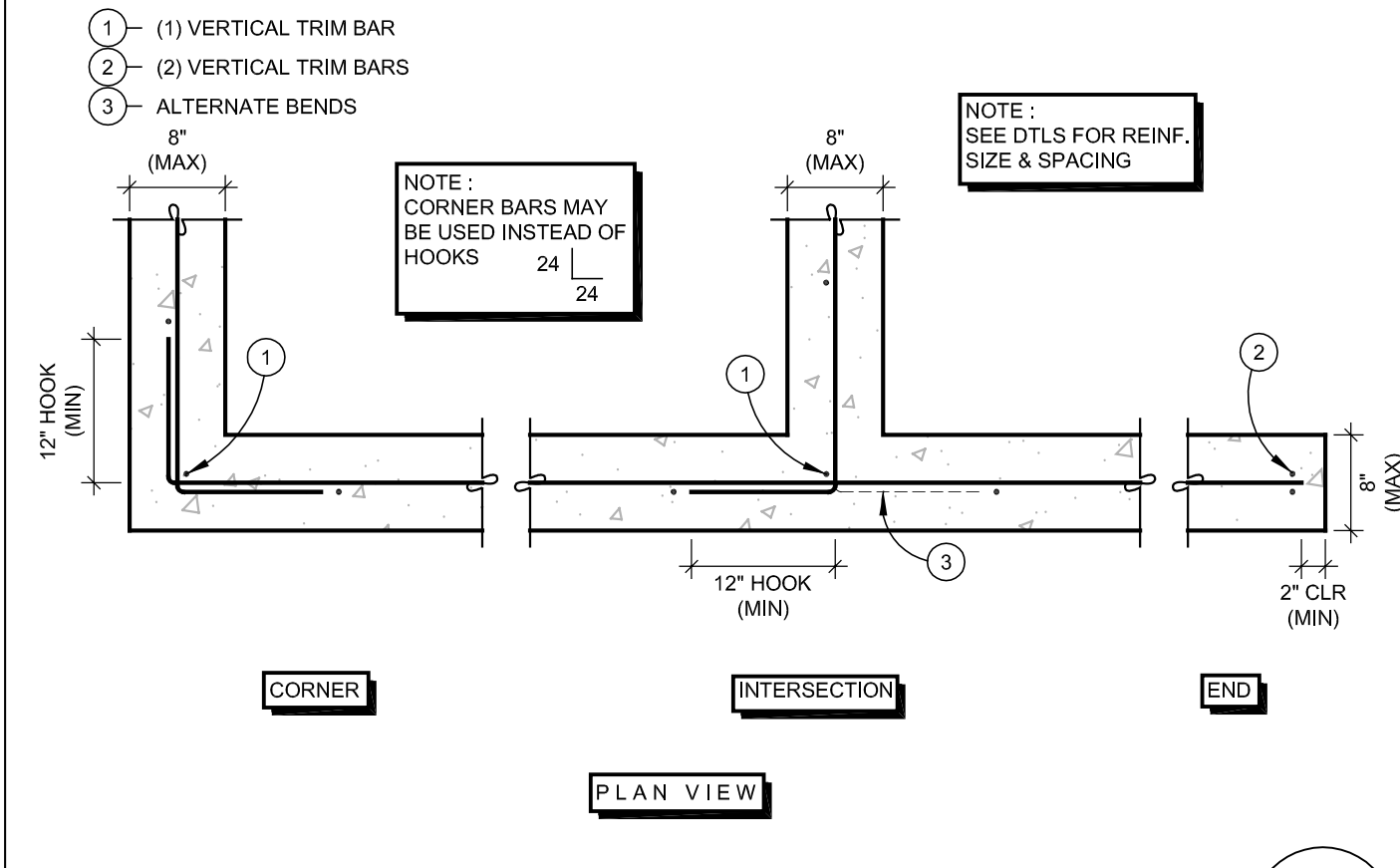
DTL - PERIMETER COLUMN TO FOOTING
SCALE: 3/4" = 1'-0"



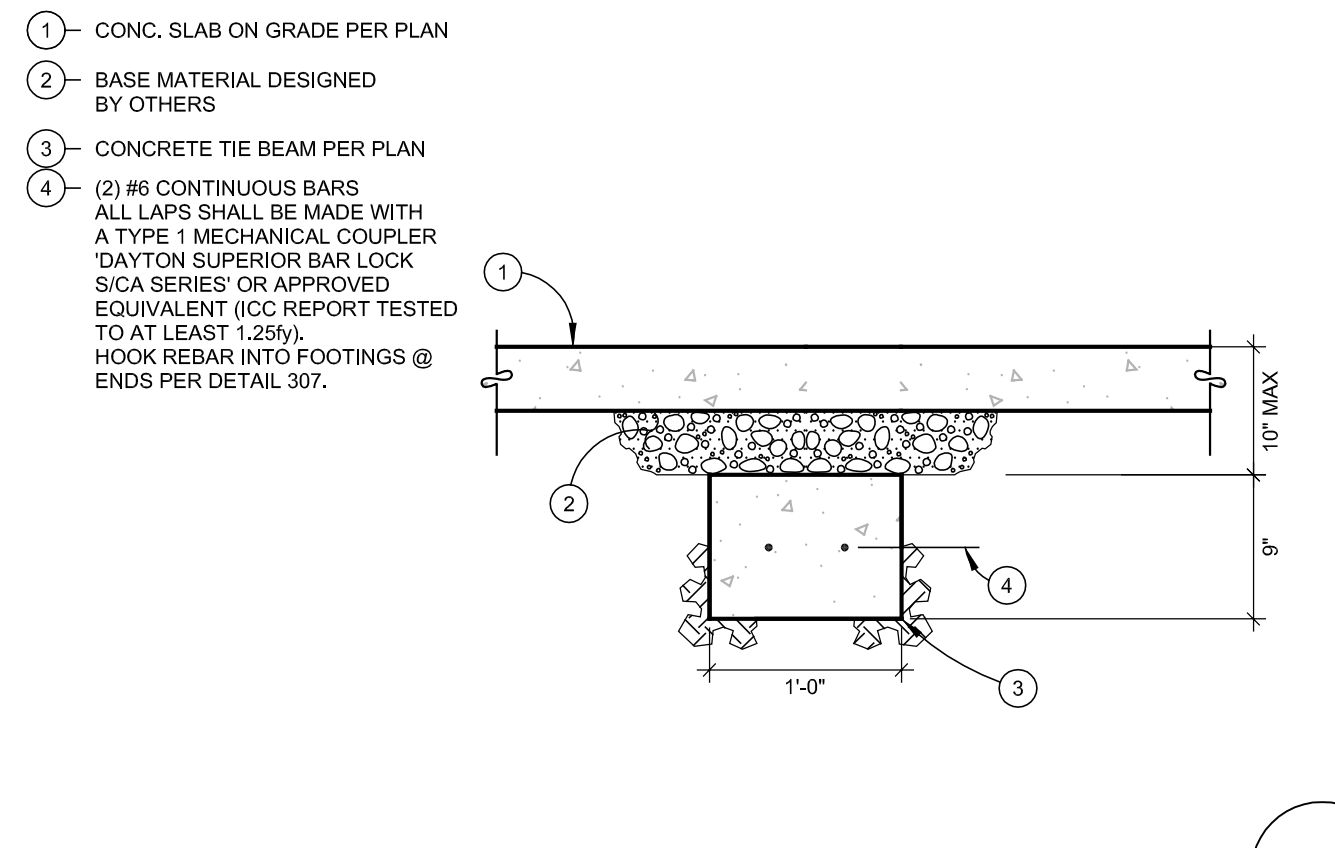
DTL - INTERIOR HSS COLUMN TO FOOTING
SCALE: 3/4" = 1'-0"



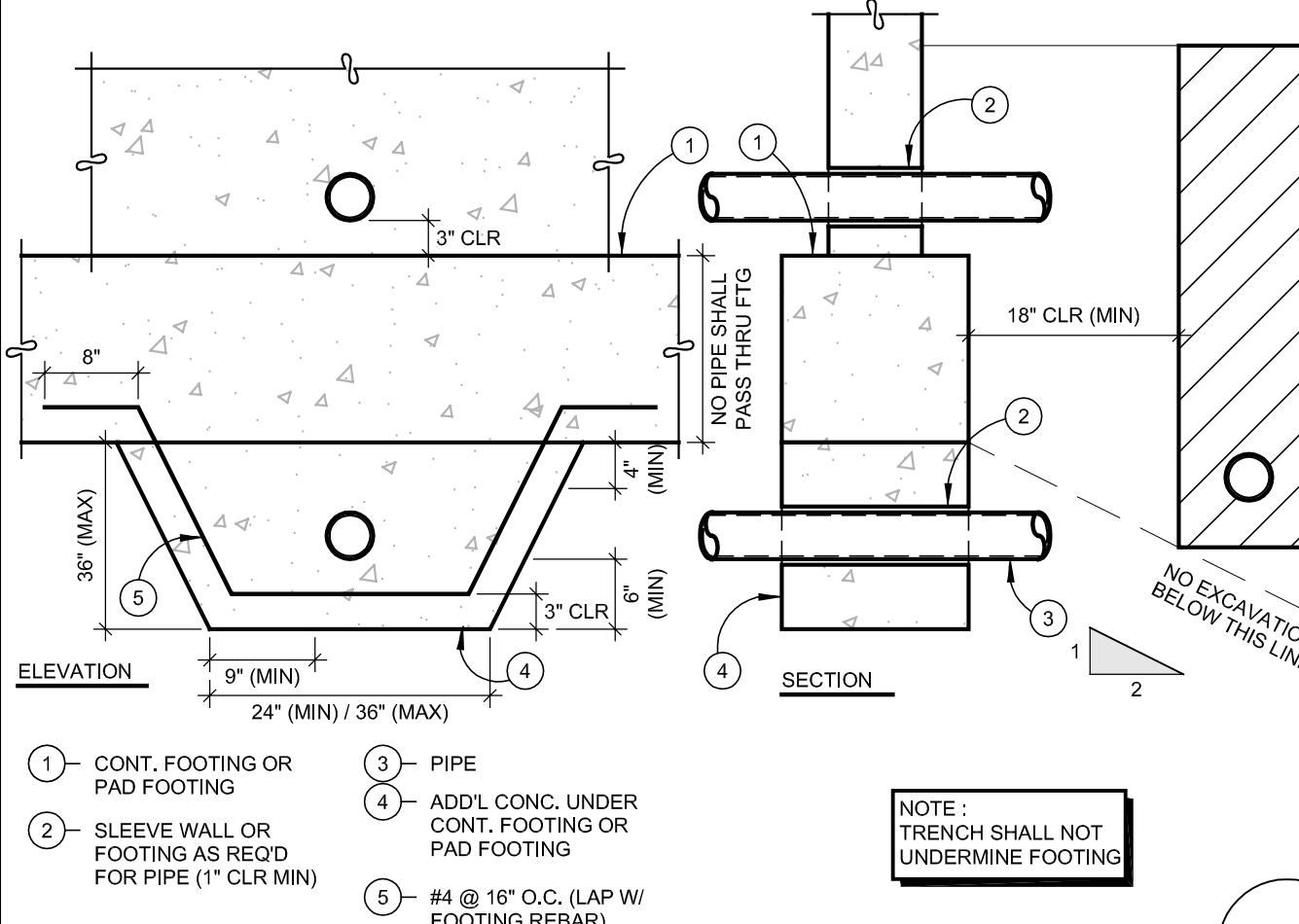
DTL - TYPICAL FLOOR SLAB JOINT
SCALE: 1" = 1'-0"



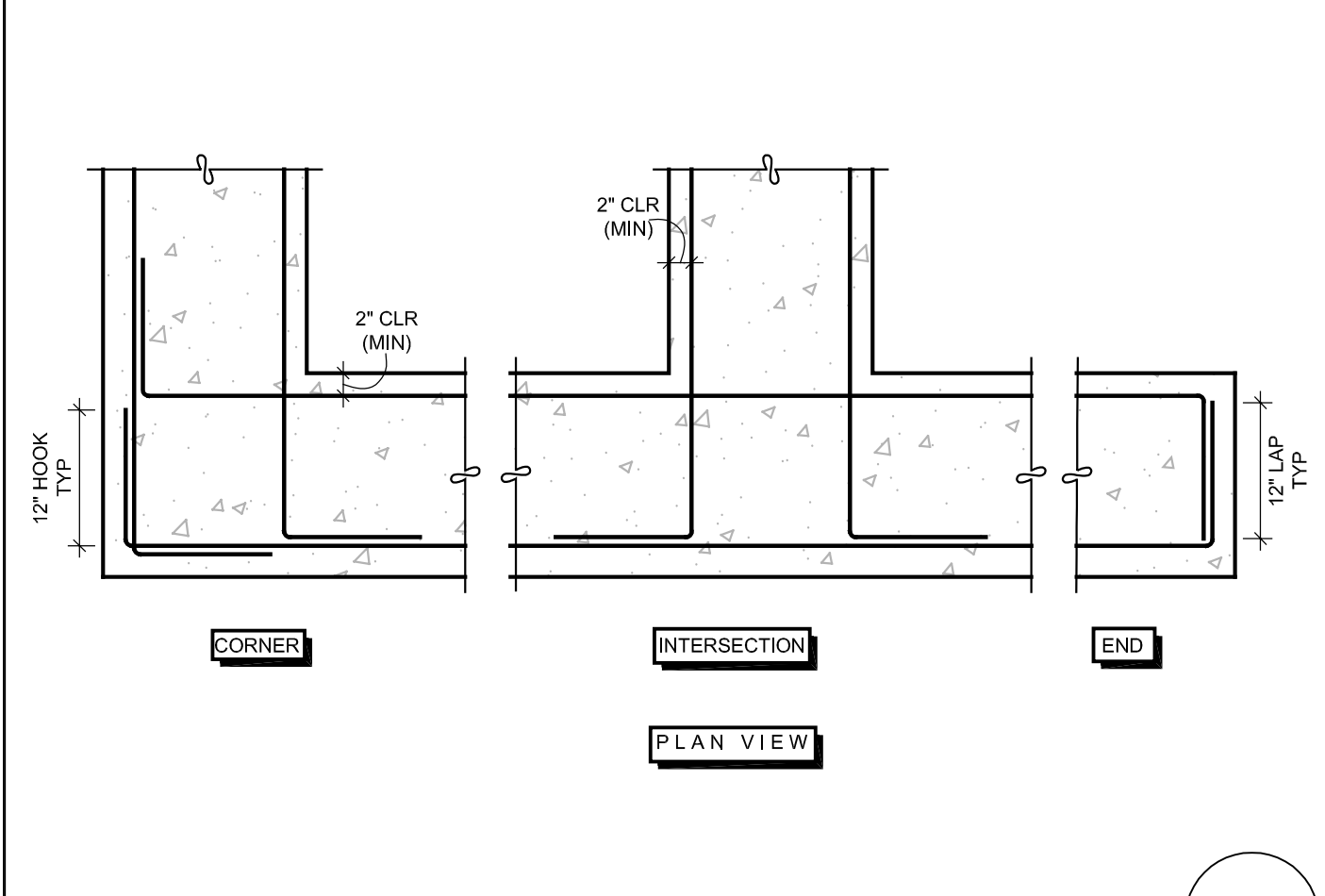
DTL - TYPICAL REINFORCING LAPS IN CONCRETE WALL
SCALE: 3/4" = 1'-0"



DTL - CONCRETE TIE BEAM
SCALE: 1" = 1'-0"

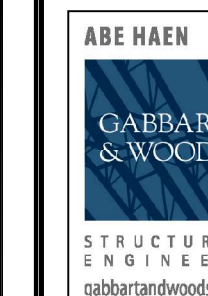


DTL - TYPICAL PIPE AND TRENCH
SCALE: 3/4" = 1'-0"



DTL - TYPICAL REINFORCING LAPS IN FOOTING
SCALE: 3/4" = 1'-0"

AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION
FOUNDATION & MEZZANINE FRAMING



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Project: AIRPORT VEHICAL MAINTENANCE BUILDING ADDITION

**AIRPORT VEHICAL
MAINTENANCE
BUILDING
ADDITION**

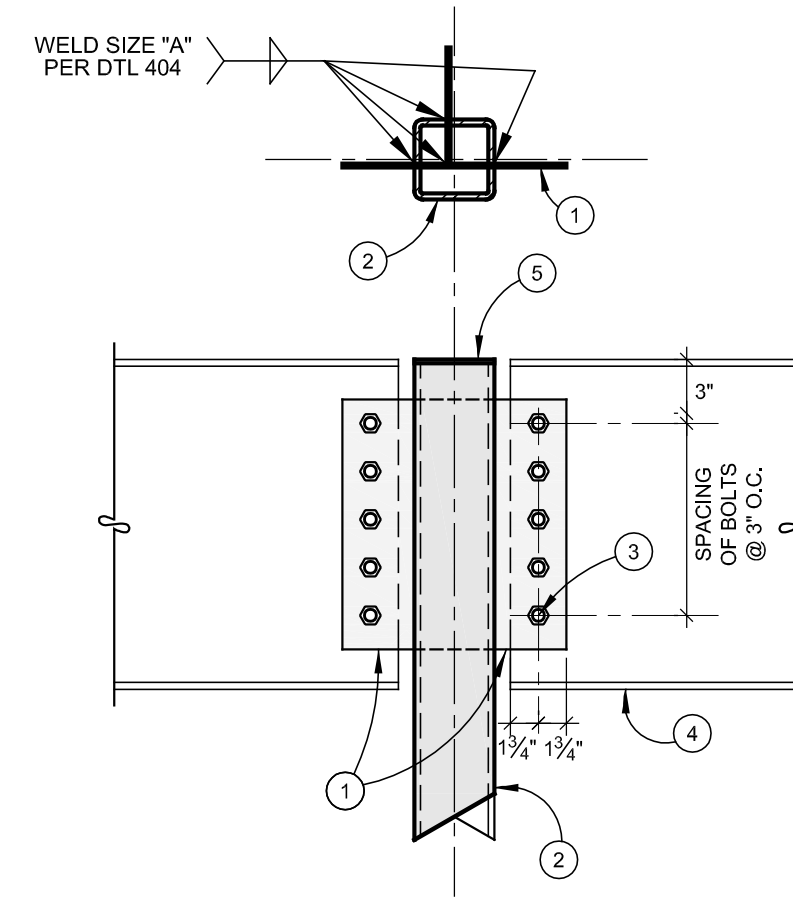
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Date	12/15/16	Sheet No.	S3.1
Drawn	ADH		
Reviewed	RW		
Scale			

- 1- KNIFE CONNECTION PL PER DTL 404 (OFFSET FROM COL CL)
- 2- HSS COLUMN PER PLAN
- 3- SIZE & NUMBER OF BOLTS PER DTL 404
- 4- BEAM PER PLAN @ CENTERLINE OF HSS COLUMN
- 5- 1/4" CAP PL

NOTE:
SIMILAR WHERE BEAMS OCCUR ON TWO OPPOSITE SIDES OF COLUMN



DTL - STEEL BEAM TO HSS COLUMN

SCALE: 1" = 1'-0"

407

STEEL BEAM CONNECTION SCHEDULE				
SUPPORTED MEMBER DEPTH	CONNECTION PLATE	WELD SIZE "A"	(IF APPL) # SHEAR BOLTS 7/8"Ø A325N	BOLT CAPACITY
8	5/16"	1/4" FILLET	(2)	11.1
9	5/16"	1/4" FILLET	(2)	11.1
10	5/16"	1/4" FILLET	(2)	11.1
12	5/16"	1/4" FILLET	(3)	22.4
14	5/16"	1/4" FILLET	(3)	22.4
15	3/8"	5/16" FILLET	(4)	35.7
16	3/8"	5/16" FILLET	(4)	35.7
18	3/8"	5/16" FILLET	(5)	49.4
21	3/8"	5/16" FILLET	(5)	49.4
24	1/2"	3/8" FILLET	(6)	63.0
27	1/2"	3/8" FILLET	(7)	76.7
30	5/8"	3/8" FILLET	(8)	84.1
33	5/8"	3/8" FILLET	(8)	84.1

FOOTNOTES

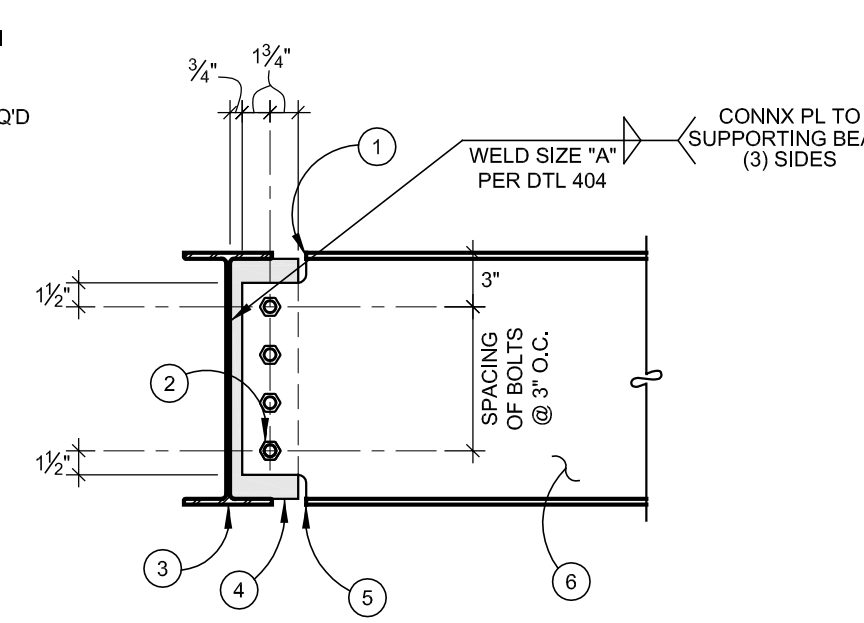
- 1. See details for applications.
- 2. Use A325N bolts, UNO.
- 3. Special inspection required, TYP.

DTL - STEEL BEAM BOLTING, WELDING & TAB SCHEDULE

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

404

- 1- COPE TOP FLANGE
- 2- SIZE & NUMBER OF BOLTS PER DTL 404
- 3- SUPPORTING BEAM PER PLAN
- 4- CONNECTION PL PER DTL 404
- 5- COPE BOTTOM FLANGE IF REQD
- 6- SUPPORTED BEAM PER PLAN

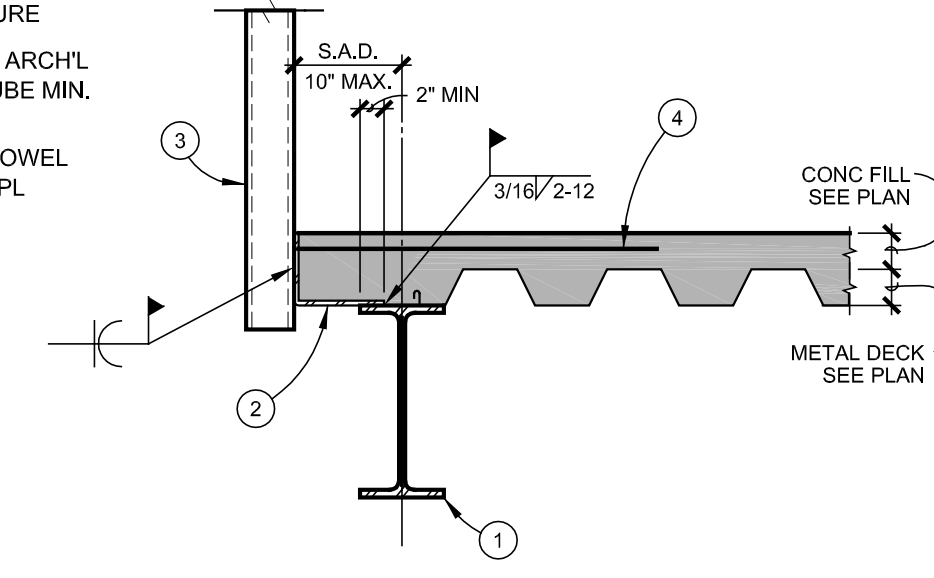


DTL - STEEL BEAM SHEAR CONNECTION (BOLTED)

SCALE: 1" = 1'-0"

406

- 1- WF BEAM PER PLAN
- 2- 1/4" BENT PLATE CLOSURE
- 3- GAURD RAIL POST PER ARCH'L (1-1/2"x1-1/2"x1/4" SQ TUBE MIN. @ 4'-0" O.C. MAX)
- 4- #4 x 3'-0" A307 REBAR DOWEL WELDED TO CLOSURE PL

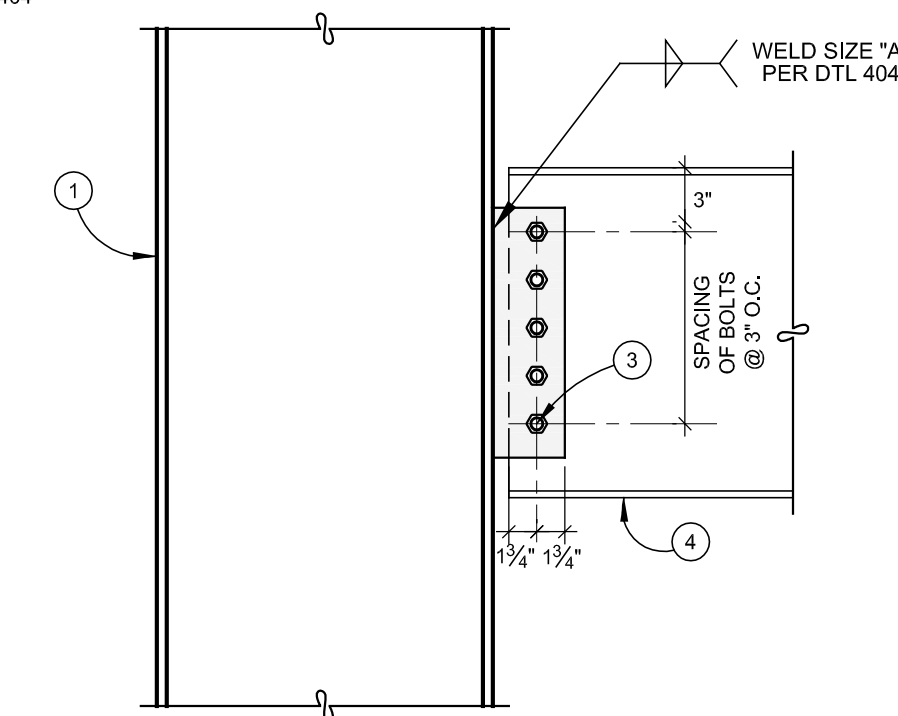


DTL - DECK CLOSURE @ EDGE W/ GUARDRAIL

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

403

- 1- STEEL COLUMN PER PLAN
- 2- CONNECTION PL PER DTL 404
- 3- BOLTS PER DTL 404
- 4- BEAM PER PLAN

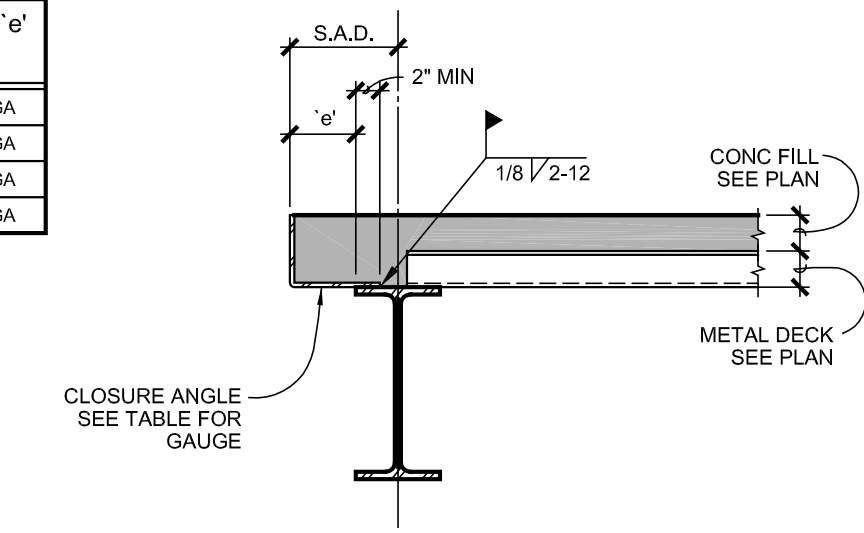


DTL - STEEL BEAM TO WIDE FLANGE COLUMN

SCALE: 1" = 1'-0"

405

OVERHANG 'e'	
2' to 4'	16GA
5'	16GA
6' to 7'	12GA
8' to 9'	10GA



DTL - DECK CLOSURE @ EDGE

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

402

DECK TAG	STEEL DECK REQUIREMENTS						COMPOSITE DECK REQUIREMENTS				NOTES		
	STEEL DECK GAGE & PROFILE ⁽¹⁾	PERP. SUPPORTS CONNX ⁽²⁾	PATTERN	PAR. SUPPORTS CONNX ⁽²⁾	PATTERN	SIDLAPS CONNX ⁽²⁾	PATTERN	CONC. TYPE ⁽⁵⁾	CONC. ABV DECK	TOTAL THICKNESS		HEADED STUD LENGTH	SLAB REINFORCEMENT ⁽³⁾
A	3", 18 GA, GALV. W3-FORMLOCK	3/4" PW	363	3/4" PW	12" o.c.	VSC OR 1/2" TSW	36" o.c.	NW	3-1/2"	6-1/2"	N/A	#3 @ 18" o.c. EA. WAY	TYPICAL FLOOR

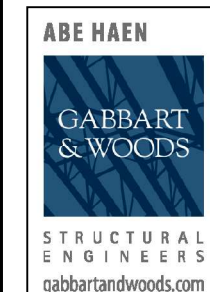
- NOTES
1. METAL DECK BY VERCO, INC. OR APPROVED EQUAL. ALL DECK TO BE GALVANIZED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 2. DECK TO BE CONTINUOUS OVER THREE OR MORE UNSHORED SPANS.
 3. PW = ARC PUDDLE WELD (SIZE BASED ON MIN. VISIBLE DIAMETER). STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF PUDDLE WELDS.
 4. COMPOSITE DECK DESIGN IS BASED UPON THE FOLLOWING:
 - A. WET WEIGHT OF CONCRETE NOT TO EXCEED 145 pcf FOR NORMAL WEIGHT CONCRETE (NWC)
 - 135 pcf FOR LIGHT WEIGHT CONCRETE (LWC)
 - B. 1/2" OF ADDITIONAL SLAB THICKNESS HAS BEEN INCLUDED IN DEAD LOAD TO ACCOUNT FOR INITIAL BEAM DEFLECTIONS AND SLAB LEVELING.
 - C. CONSTRUCTION LIVE LOAD NOT TO EXCEED 20 pcf
 5. PLACE REBAR 1" BELOW TOP SURFACE OF SLAB. TOP LAYER OF REINFORCEMENT SHALL RUN PARALLEL TO RIBS.
 6. ALL CONCRETE COMPOSITE DECKS MAY HAVE VENTED METAL DECK AS AN OPTION TO CONTRACTOR.

STEEL DECK SPECIFICATIONS

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

401

AIRPORT VEHICLE MAINTENANCE BUILDING ADDITION FOUNDATION & MEZZANINE FRAMING



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No.	Revisions	Date

AIRPORT VEHICAL MAINTENANCE BUILDING ADDITION

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Date	12/15/16	Sheet No.
Drawn	ADH	S4.1
Reviewed	RW	
Scale		

DEMOLITION SYMBOLS	
	DISCONNECT FROM EXISTING
	CONNECT TO EXISTING

PLUMBING FIXTURE CONNECTION SCHEDULE				
FIXTURE	HW	CW	WASTE	VENT
HOSE BIBB		3/4"		
FLOOR DRAIN OR FLOOR SINK		1/2"	2"	1 1/2"

SIZES SHOWN ARE PIPE SIZES TO A SINGLE FIXTURE.

ABBREVIATIONS & ACRONYMS			
(E) Existing	DFU Drainage Fixture Unit	IE Invert Elevation (Bottom of Pipe)	RP Reduced Pressure
(N) New	DHW Domestic Hot Water	IWC Inches Water Column	RPBFR Reduced Pressure Backflow Preventer
A Amperes, Amps	DIAG Diagram	ISO Isolation, Isolator	RPM Revolutions per Minute
ABS Acrylonitrile Butadiene Styrene	DN Down	JT Joint Trench	RTN Return
ADA Americans with Disabilities Act	DT Differential Temperature	KBTU 1,000 Btu	SA Supply Air
ADJ Adjustable	DX Direct Expansion Refrigerant	LAT Leaving Air Temperature	SEER Seasonal Energy Efficiency Ratio
AFF Above Finished Floor	EA Exhaust Air	LAV Lavatory	SF Square Feet
AFG Above Finished Grade	EAT Entering Air Temperature	LPG Liquefied Petroleum Gas (Propane)	SL Sea Level
AFUE Annual Fuel Utilization Efficiency	EC Electrical Contractor	LRA Locked Rotor Amps	SS Sanitary Sewer
AGF Air Gap Fitting	ECM Electrically Commutated Motor	LWT Leaving Water Temperature	SUP Supply
ALT Altitude	ED Electrical Division	MAT Mixed Air Temperature	T24 Title 24 (California)
APD Air Pressure Drop	EER Energy Efficiency Ratio	MBH 1,000 Btu per Hour	TEMP Temporary, Temperature
ASSE American Society of Sanitary Engineering	EFF Efficiency	MC Mechanical Contractor	TFR Transfer
ATD Air Temperature Differential	EPA Environmental Protection Agency, US	MCA Minimum Circuit Ampacity	THERM 100,000 Btu
BAS Building Automation System	EWT Entering Water Temperature	MD Mechanical Division	TPV Trap Primer Valve
BDD Backdraft Damper	EXH Exhaust	MFG Manufacturing	TYP Typical
BFF Below Finished Floor	FBO Furnished By Others/Owner	MFR Manufacturer	UL Underwriters Laboratory
BFG Below Finished Grade	FC Fan Coil	MG Medium Pressure (2psi) Gas	UNO Unless Noted Otherwise
BFP Backflow Preventer	FCO Floor Cleanout	MGT Management	UPC Uniform Plumbing Code
BHP Brake Horsepower	FD Floor Drain	MOCPP Max Overcurrent Protection	V Volts
BMS Building Management System	FIXT Fixture	NA Not Applicable	VAR Variable
BMS Building Management/Automation System	FLA Full Load Amps	NG Natural Gas (Methane)	VFD Variable Frequency Drive
BTUH Btu/Hour	FREQ Frequency	NIC Not In Contract	VIB Vibration
CA Combustion Air	FS Floor Sink, Fire/Smoke	OBDO Opposed Blad Damper	VOC Volatile Organic Compound
CFH Cubic Feet per Hour	FT Feet	OC On Center	VSD Variable Speed Drive
CFM Cubic Feet per Minute	GA Gauge	OC Occupancy	VTR Vent Through Roof
CKT Circuit	GC General Contractor	OSA Outside Air / Ventilation Air	W Waste, Waits
CLG Ceiling	GEO Geological, Geoexchange, Earth	PE Polyethylene	W/ With
CO Cleanout	GPH Gallons Per Hour	PEX Cross-linked Polyethylene	WCO Wall Cleanout
COMB Combustion, Combination	GPM Gallons Per Minute	PH Phase	WSFL Water Supply Fixture Unit
CONEC Concentric, Concrete	GSPH Ground Source Heat Pump	PRV Pressure Reducing Valve	WTD Water Temperature Differential
COP Coefficient of Performance	HOA Hand-Off-Auto	PSI Pounds per Square Inch	WWHP Water to Water Heat Pump
COTG Cleanout To/At Grade	HP Heat Pump, Horsepower	PVC Poly(vinyl Chloride)	
CW Cold Water	HW Domestic Hot Water	RA Return Air	
DDC Direct Digital Control	HWC Domestic Hot Water Recirculation	RLA Running Load Amps	
	Hz Hertz		

SECTION CUT

GAS FIRED UNIT HEATER SCHEDULE									
MARK	TYPE	CFM	INPUT S.L. (MBH)	OUTPUT ALT. (MBH)	ELECTRICAL		MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
					HP/ (WATTS)	VOLT/ HP			
RH-1	RADIANT HEATER	NO FAN	30	25	10W	120/1	MODINE MHR30	WALL THERMOSTAT PER PLANS	24V CTRL. DIRECT SPARK IGNITION, 30LBS
-	-	-	-	-	-	-	-	-	-

MANUFACTURERS:
* BEACON MORRIS, TRANE, MCQUAY OR MODINE EQUIVALENT

GENERAL NOTES:
A:
B:

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PLUMBING FIXTURE SCHEDULE							
SYMBOL	TYPE	A.D.A.	FINISH	MANUFACTURER* & MODEL #	FAUCET TRIM MFR.* & MODEL #	ACCESSORIES	REMARKS
TD-1	TRENCH DRAIN	NA	CAST IRON GRATE	ZURN Z-883	NA	END OUTLET, END CAP, SEE PLANS.	PER PLANS
FCO	FLOOR CLEANOUT	NA	BRONZE COVER	ZURN		ADJUSTABLE COVER	FLUSH WITH FLOOR
TPV	TRAP PRIMER VALVE	NA	-	PPP PRIME PERFECT		-	ASSE LISTED, INSTALL PER MFR.
HB-1	HOSE BIBB	NA	-	WOODFORD MODEL 25		METAL HANDLE	ANTI-SIPHON ASSE LISTED
CA-1	COMPRESSED AIR CONNECTION	NA	-	SNAP-ON PTQFRL		-	WALL MOUNTED BOX, COMPLETE SET

MANUFACTURERS:
FIXTURE: AMERICAN STANDARD, UNIVERSAL RUNDLE, FIAT STERN WILLIAMS
FAUCET: SPEAKMAN, DELTA, AMERICAN STANDARD, CHICAGO
DRAIN: JOSAM, WADE SMITH

GENERAL NOTES:
A:
B:

- GENERAL NOTES:**
- All exposed pipes, ducts and materials shall be metallic or shall be suitably wrapped to meet applicable flame spread requirements. No exposed plastic pipe, duct or wiring is allowed.
 - Coordinate with existing conditions, GC, and all other trades prior to all installations. Overlay plans and visit site as necessary. No allowance will be made for re-work due to lack of advanced coordination.
 - See Specifications Manual for additional information.
 - Fire suppression system changes shall be designed by FPE or NICET 3 licensed technician. Comply with NFPA 13. Perform flow tests and submit all calculations and final shop drawings. Residual pressures may be available from the District upon request. Plans show basic arrangements only.
 - The building occupancy per architectural plans is Group H-4 and any and all hazardous materials shall be kept in sealed containers and stored in approved hazardous materials storage cabinets. NFPA 13 Occupancy Hazard class is Ordinary Hazard Group 2.
 - All contractors and subcontractors shall be licensed and experienced with the systems, performance levels, and construction types indicated in the plans and specifications prior to bidding.
 - All equipment shall meet or exceed 2013 Title 24 prescriptive efficiencies, controls, and other requirements. See compliance forms for more information. Signed and submitted compliance forms are part of this contract. This new building has heat and vent only. The building interior is a process space with freeze protection heating controls limited to less than 55°F setpoint; therefore, this space is classified as unconditioned.
 - All products shall be selected and capable of performance at project altitude: 5,900'.
 - All products shall be provided and installed to comply with CBC Chapter 16 seismic requirements. All piping shall be anchored and laterally braced.
 - All products and systems shall be installed to comply with their UL listings.
 - All control wiring shall be in metallic (EMT) raceways. Raceways by EC, wiring by MC. MC responsible to coordinate this requirement to the EC and GC for base bid.
 - Sugarpine Engineering cannot, through its designs, specifications, observations, or by any other means, guarantee the prevention, reduction or elimination of microorganisms, Legionella, chemicals, particles, molecules or debris (collectively substances) in air, water or other building systems, or control potential risk factors for human health. Similarly, Sugarpine cannot guarantee the security of the project, including but not limited to entry, forced entry, filtration, air quality, equipment reliability, or other means of protection, explicit or implied.
 - All stand-alone, factory, and equipment-provided controls are considered part of the controls system for the project. Each device shall have its programming and settings adjusted by the Controls Contractor, and shall be integrated with the building's overall controls, if applicable. See control sequences for more information.
 - Prior to passing rough mechanical inspection, the contractor shall complete, and provide to the inspector for acceptance, the applicable Title 24 energy compliance forms, as required by the Authority Having Jurisdiction.
 - Contractor shall include in the base bid all Acceptance Testing, where required to complete acceptance forms requested by the AHJ.

PIPE SYMBOLS, DEVICES & PLAN TAGS		
SMS SNOWMELT SUPPLY	PW PRESSURIZED WASTE	
SMR SNOWMELT RETURN	ST STORM DRAIN	
HWS HEATING WATER SUPPLY	ST(OP) STORM DRAIN OVERFLOW	
HWR HEATING WATER RETURN	SO SAND AND OIL WASTE	
SHS SOLAR HEATING WATER SUPPLY		
SHR SOLAR HEATING WATER RETURN		
G STD PRESSURE GAS		
MG MEDIUM PRESSURE 2 PSI GAS		
D DRAIN (NON SEWER)		
PC PUMPED CONDENSATE		
GF GLYCOL FEED		
RFS RADIANT FLOOR SUPPLY		
RFR RADIANT FLOOR RETURN		
RS REFRIGERANT SUCTION		
RL REFRIGERANT LIQUID		
- CW DOMESTIC COLD WATER		
-- HW DOMESTIC HOT WATER		
--- HWC DOMESTIC HOT WATER CIRCULATION		
F FIRE LINE		
W WASTE PIPE		
V PLUMBING VENT PIPE		

EXHAUST FAN SCHEDULE										
MARK	TYPE	CFM	SONES	FAN		MOTOR		MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
				S.L. (IN WC)	ALT (IN WC)	HP	VOLT/ PHASE			
EF-1	SIDEWAL	3635	18.7	-	0.125	1	120/1	GREENHECK CW-161-VG1	15"x15" BACKDRAFT DAMPER	SIDEWALL EXHAUSTER WITH VARI-GREEN MOTOR
-	-	-	-	-	-	-	-	-	-	-

MANUFACTURERS:
* ACME, COOK, GREENHECK, PANASONIC, PENN

GENERAL NOTES:
A:
B:

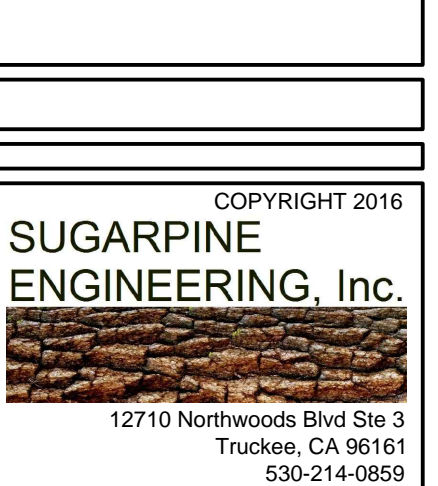
DUCT SYMBOLS			

GRILLE, REGISTER, DIFFUSER & LOUVER						
SYMBOL	USE	PATTERN	FINISH	MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
LV-1	INTAKE LOUVER	48"Wx36"H	COLOR PER ARCHITECT	RUSKIN EL06375DAX + ACTUATOR + BIRD SCREEN	SPRINGS RETURN ACTUATOR, BELIMO AFB24, BIRD SCREEN	6" DEEP COMBINATION LOUVER/DAMPER, CONCEALED LINKAGE, DRAINABLE BLADES, INTERLOCK WITH FAN
-	-	-	-	-	-	-
-	-	-	-	-	-	-

MANUFACTURERS:
GRD KRUEGER, METALAIRE, TITUS
LOUVER GREENHECK, L&D, RUSKIN

GENERAL NOTES:
A:
B:

CONTROLS SYMBOLS			



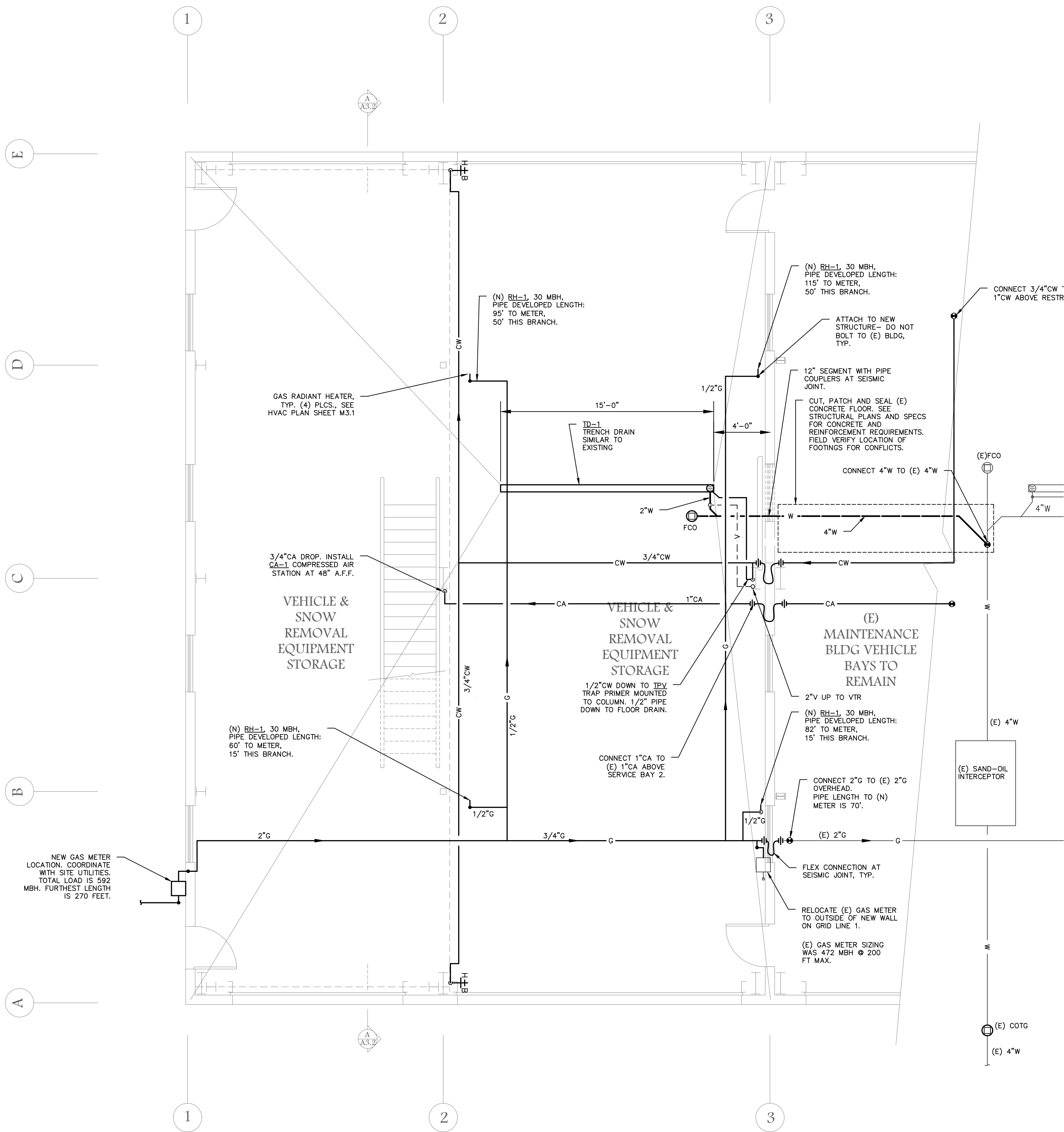
Truckee Tahoe Airport District
Airport Vehicle Maintenance Building Addition
Truckee Tahoe Airport Road
Truckee, CA

DATE	December 15, 2016
ISSUE	Bid Set
SCALE	See Plan
SHEET NAME	MECHANICAL LEGENDS, NOTES, SCHEDULES
SHEET NO.	M1.1

**Truckee Tahoe Airport District
 Airport Vehicle Maintenance Building Addition**
 Truckee Tahoe Airport Road
 Truckee, CA



2 MEZZANINE LEVEL PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



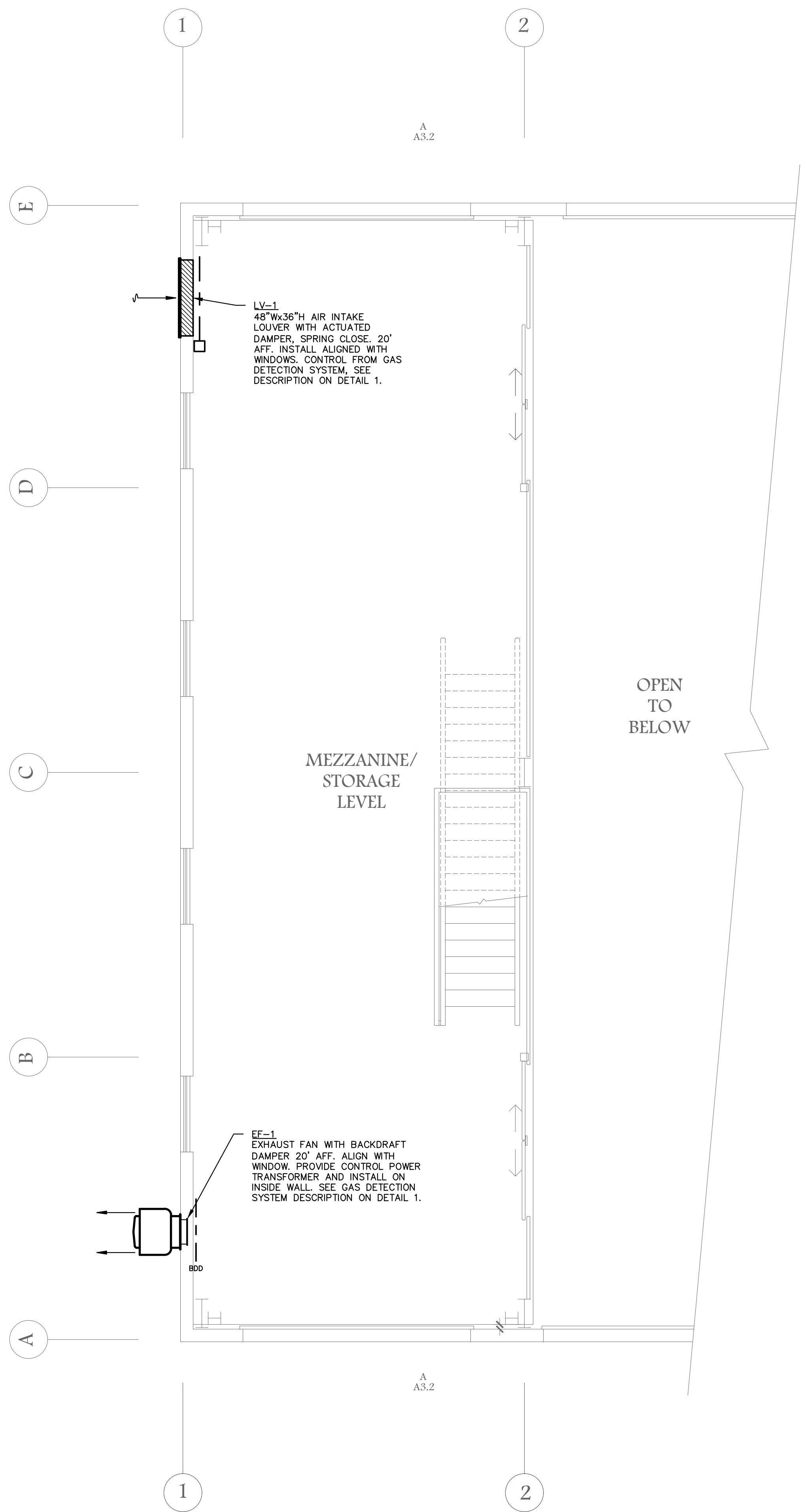
1 MAIN LEVEL PLUMBING PLAN
 SCALE: 1/4" = 1'-0"

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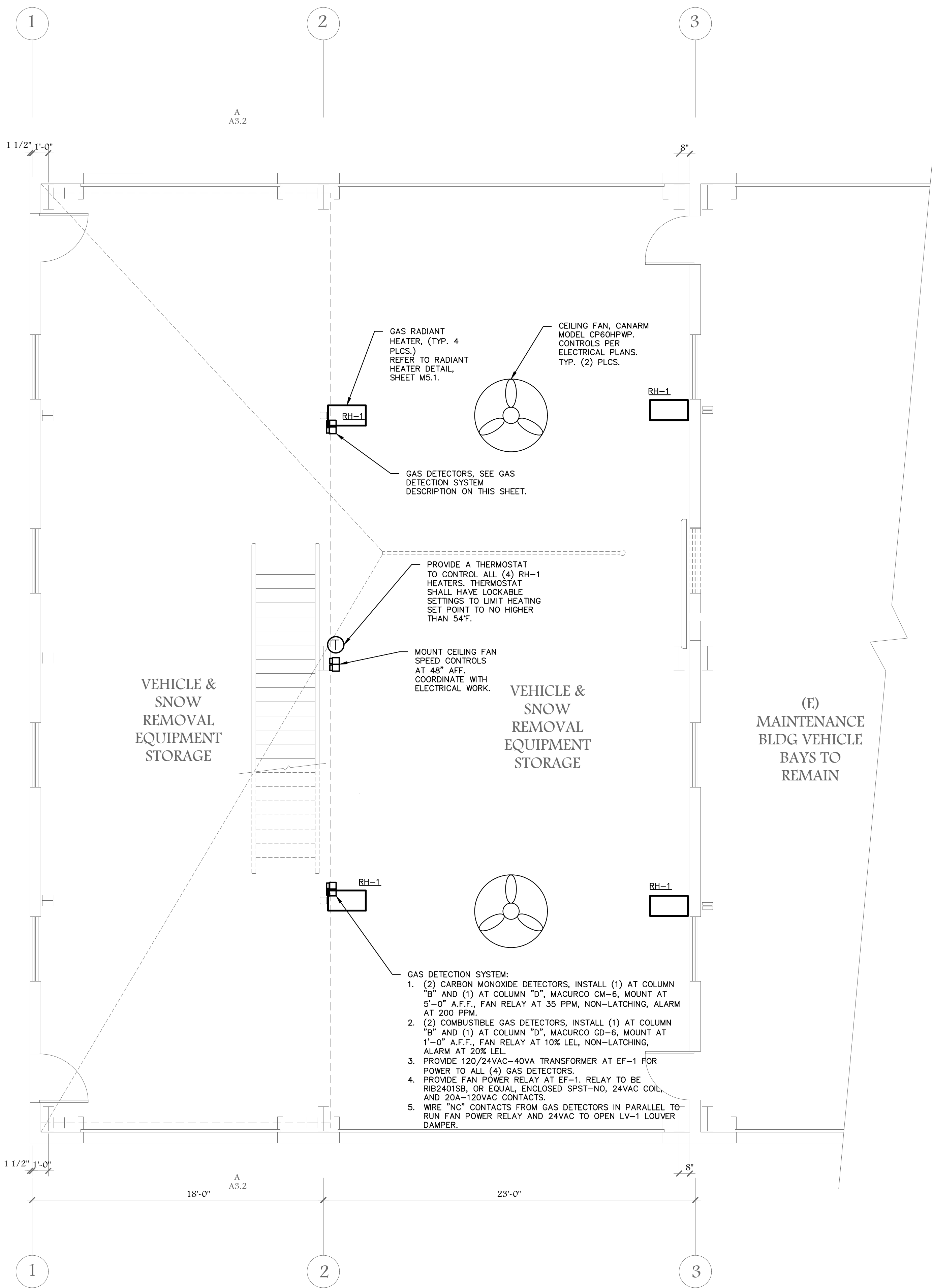
SEAL
REVISIONS
DATE December 15, 2016
ISSUE Bid Set
SCALE See Plan
SHEET NAME PLUMBING PLANS
SHEET NO. M2.1

**Truckee Tahoe Airport District
 Airport Vehicle Maintenance Building Addition**
 Truckee Tahoe Airport Road
 Truckee, CA

SEAL
REVISIONS
DATE December 15, 2016
ISSUE Bid Set
SCALE See Plan
SHEET NAME HVAC PLANS
SHEET NO. M3.1

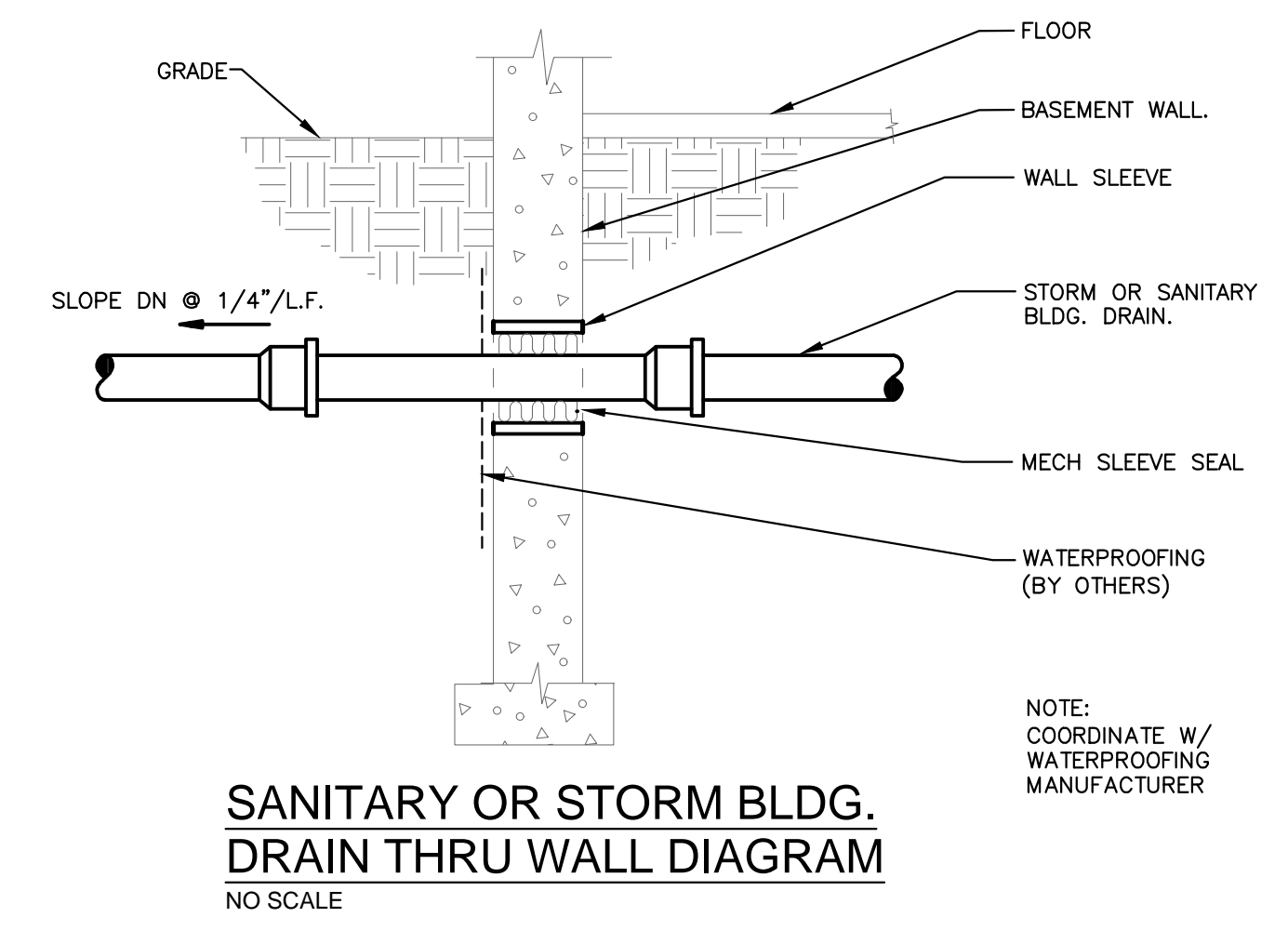
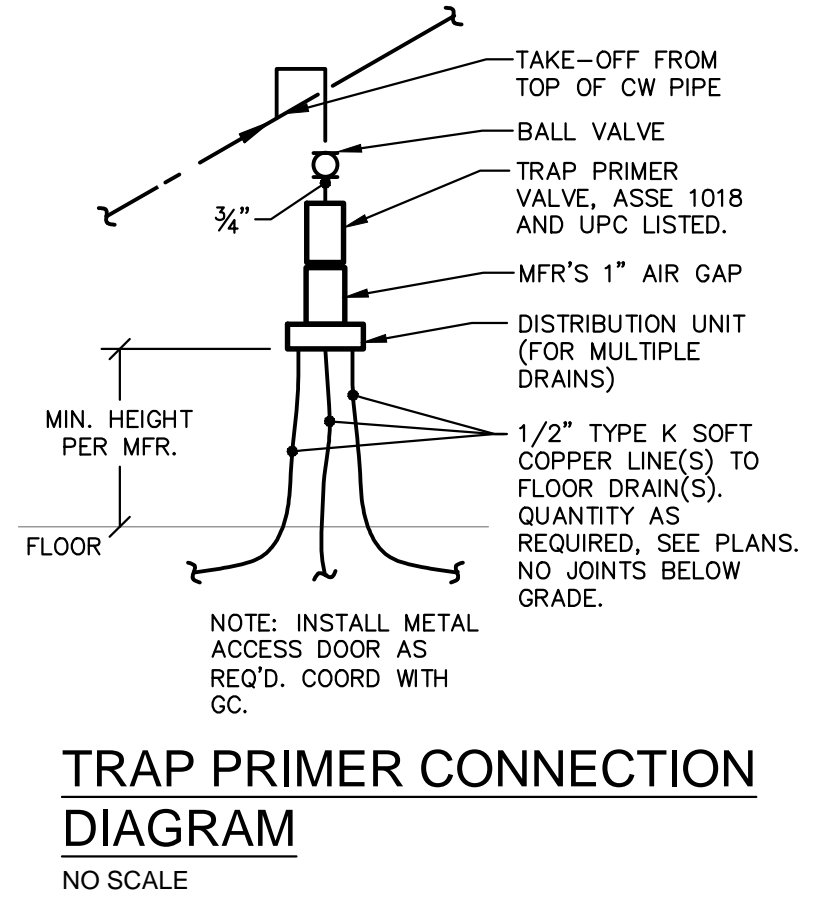
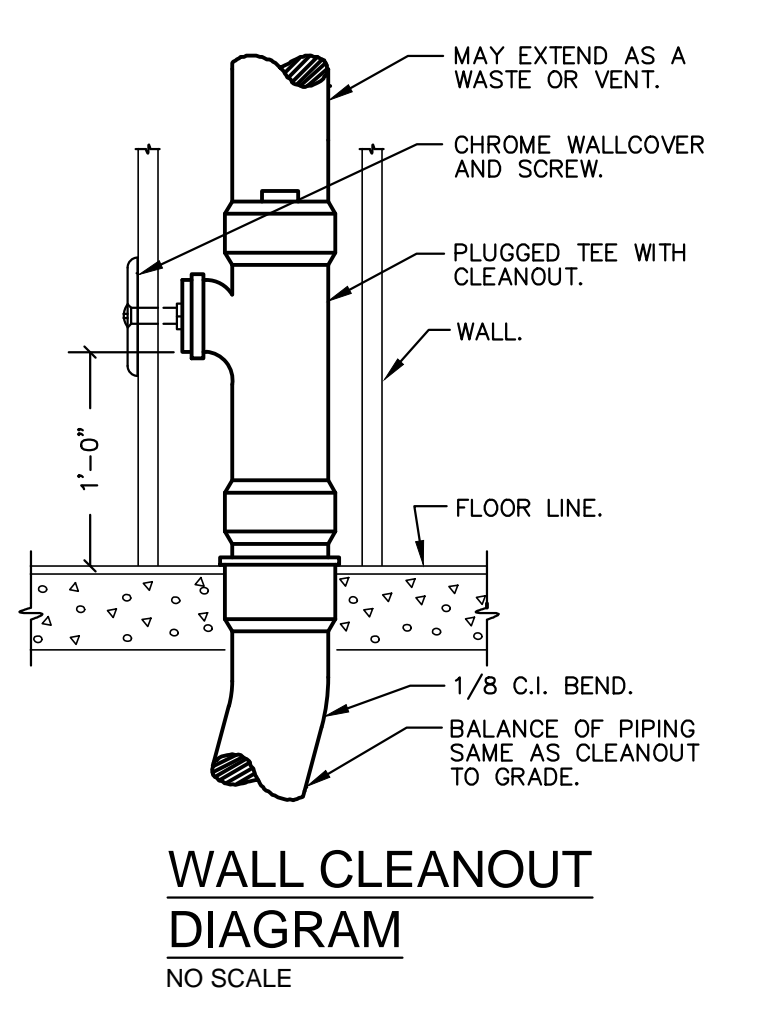
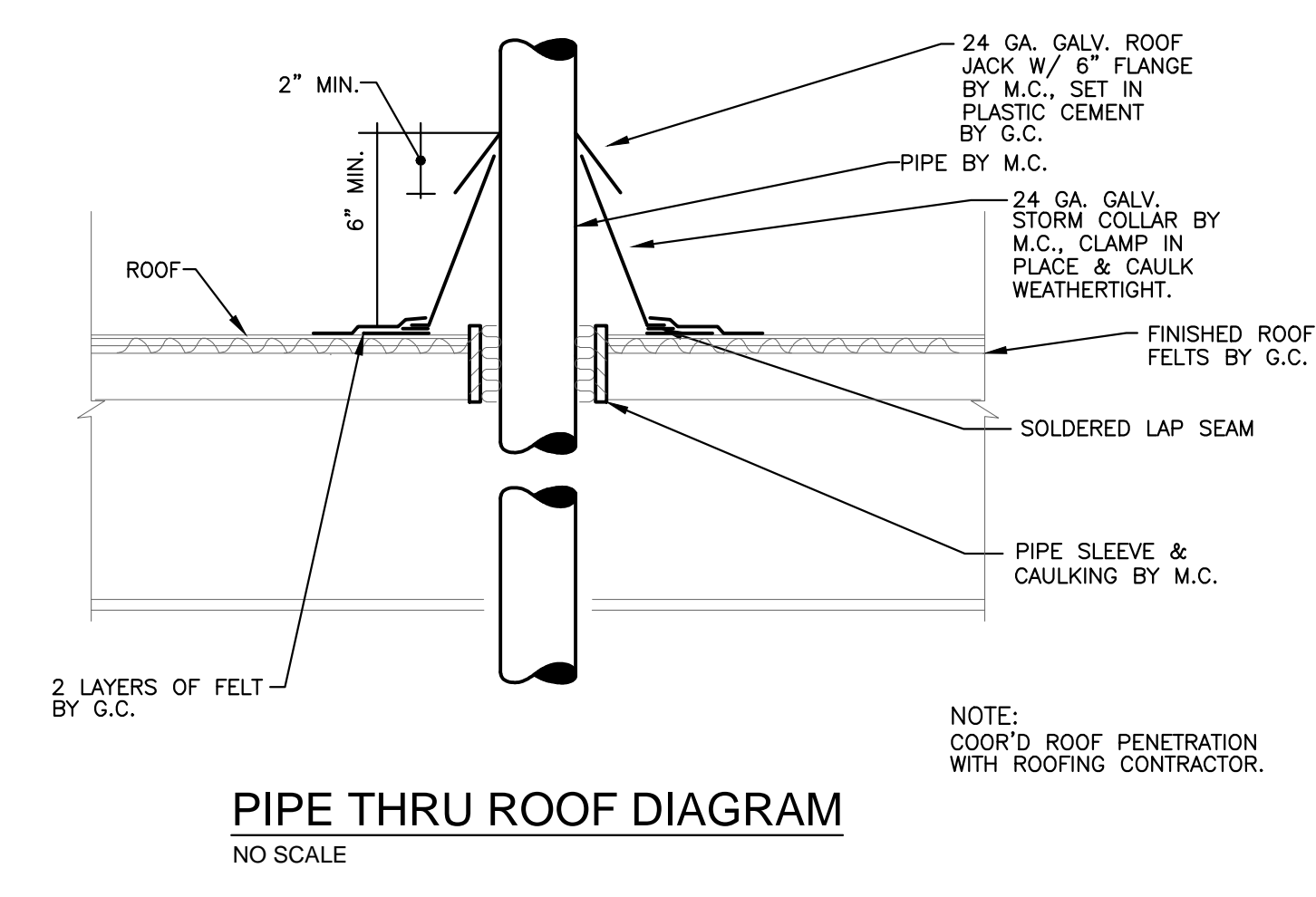
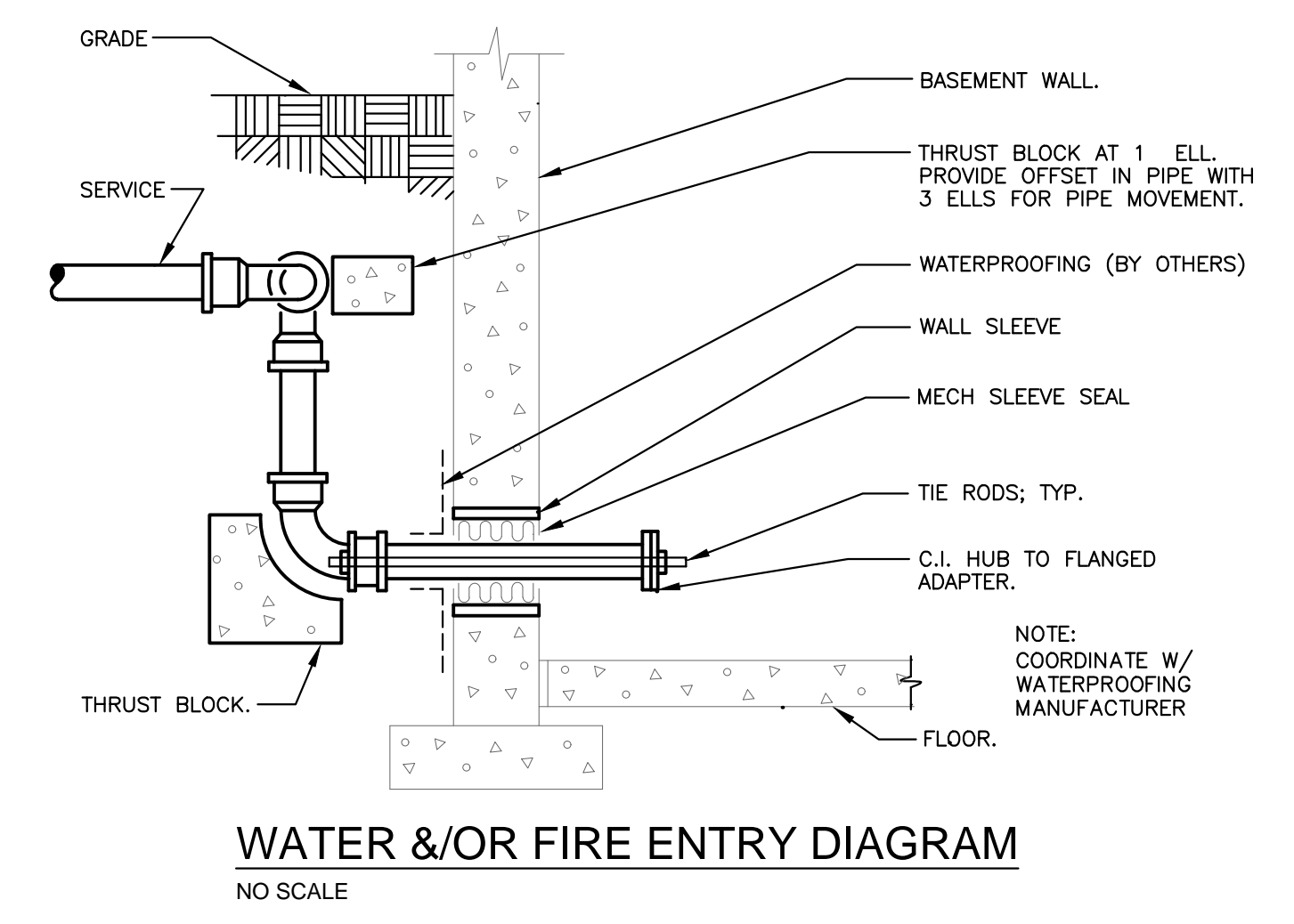
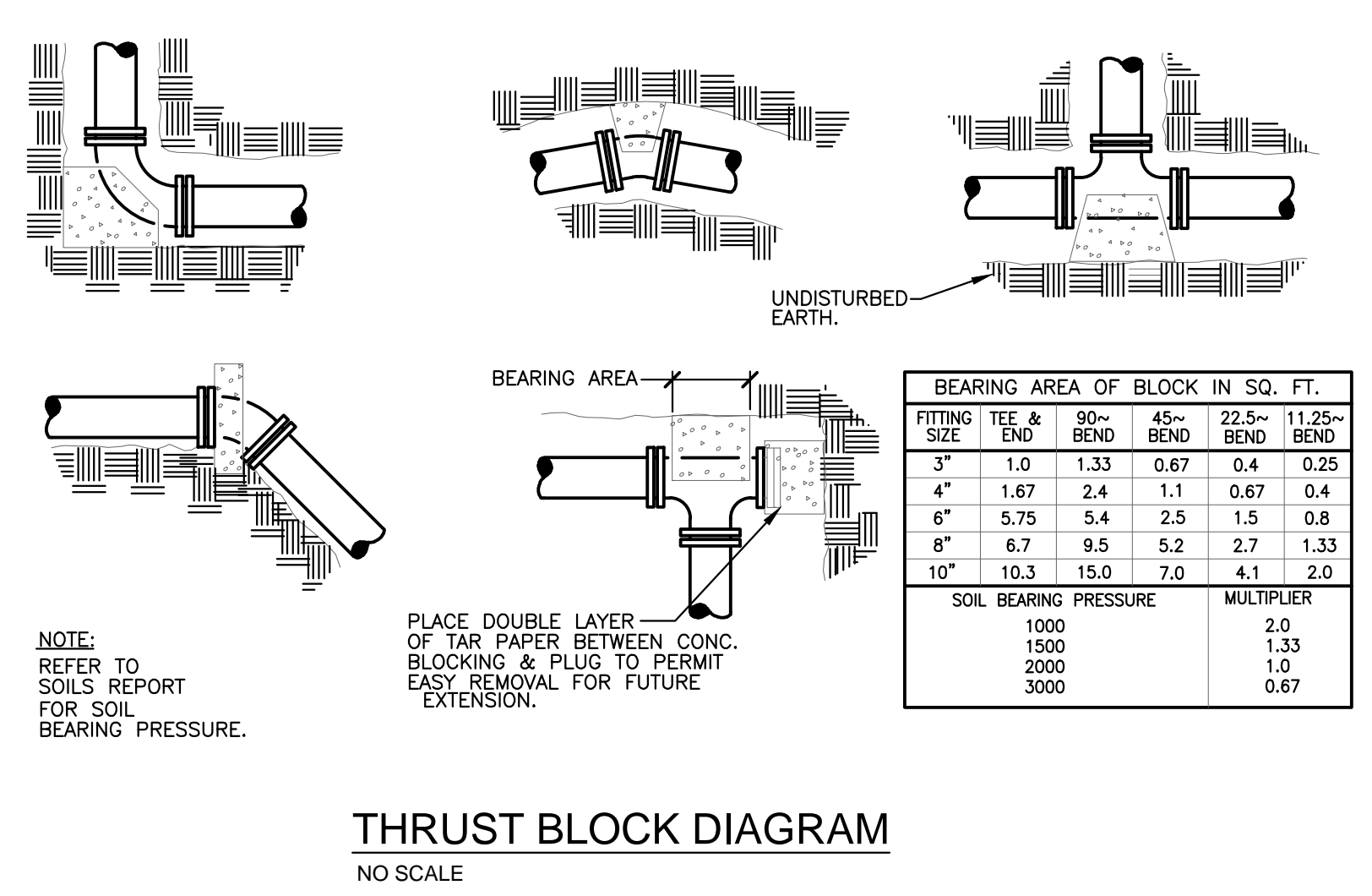
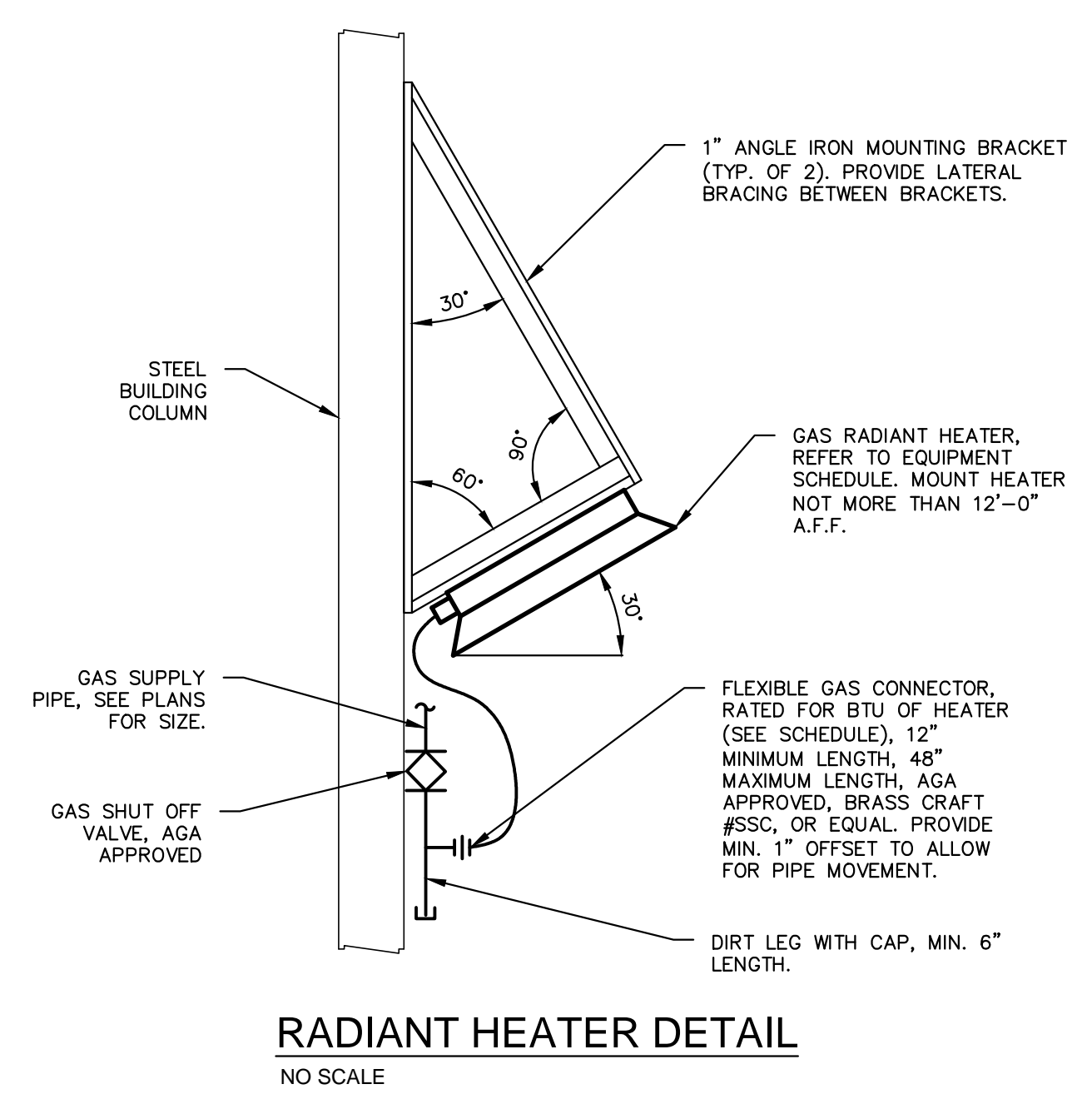
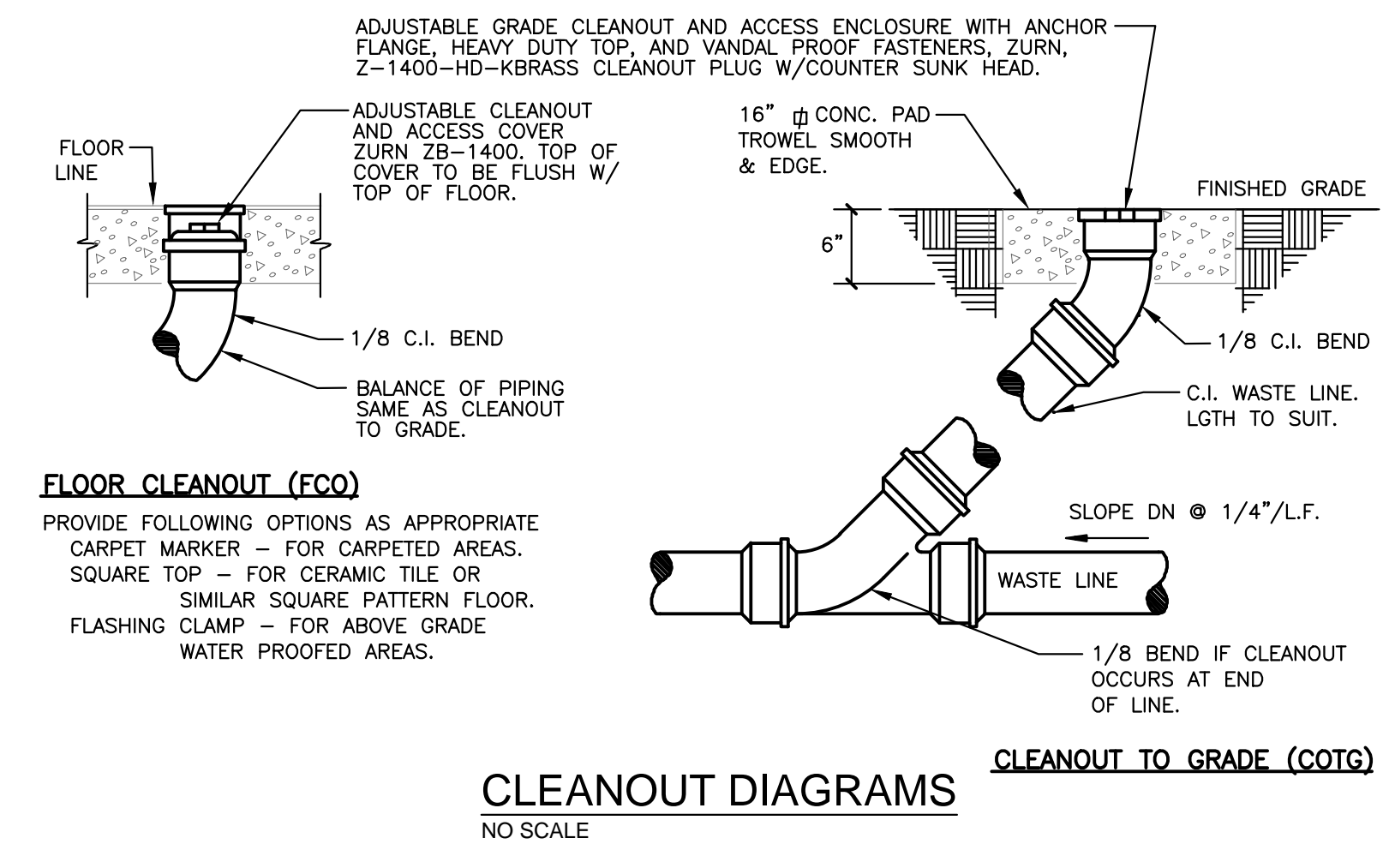
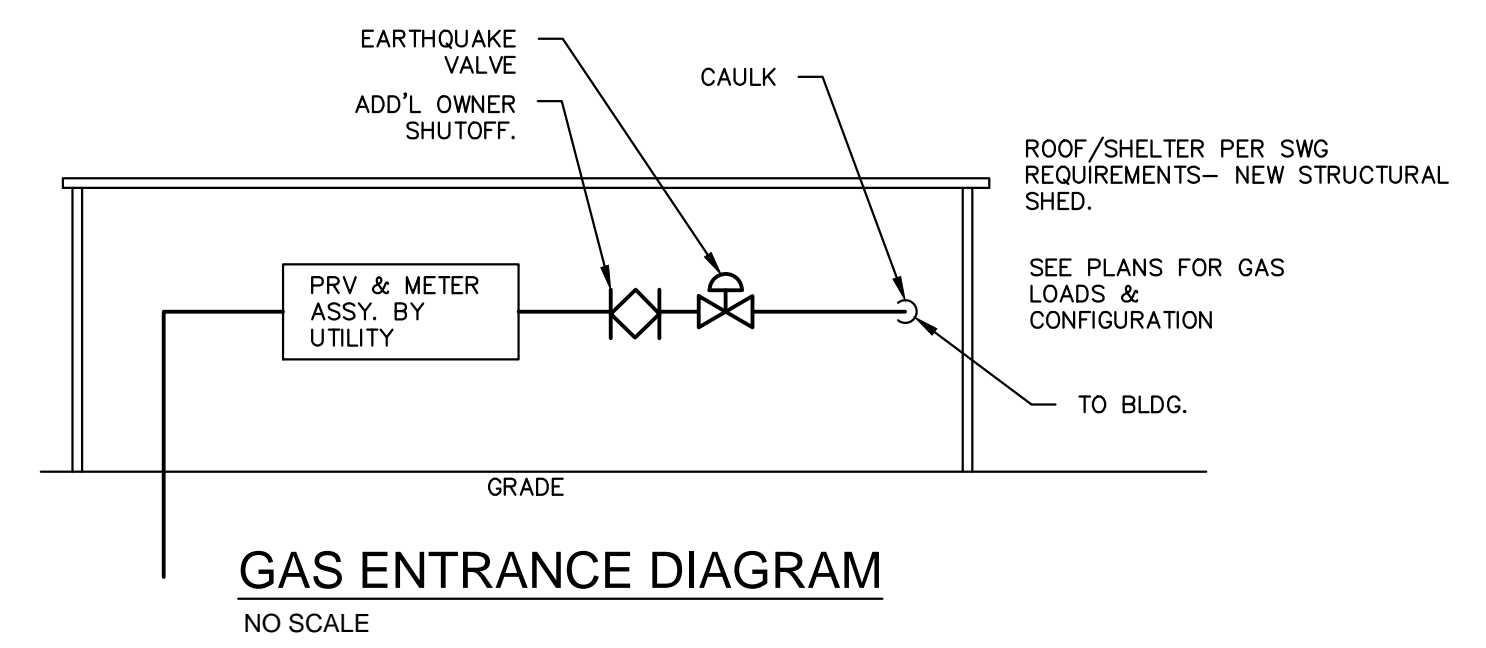


1 MEZZANINE LEVEL HVAC PLAN
 SCALE: 1/4" = 1'-0"



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

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SEAL
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DATE December 15, 2016
ISSUE Bid Set
SCALE See Plan
SHEET NAME MECHANICAL DIAGRAMS
SHEET NO.

PANEL " C "		208 Y/ 120 VOLT 3 PH 4 WIRE		125A main lug AMPERE MAIN 100 : 125 AMPERE BUS							
LOCATION New Bay			MOUNTING Surface			A.I.C. 22KAIC.					
CRK	LOAD			LOAD DESCRIPTION			LOAD				
	LINE A	LINE B	LINE C	REC	LITES	POLE	TRIP	A	B	C	
1											
3											
5											
7	20										
9		1488									
11											
13	5200										
15		5200									
17			5200								
19	5200										
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
42											
SUB TOTALS				3200	4800	3200					
NOTES: PROVIDE ALL CIRCUITS, CONDUIT, WIRE, DISCONNECTS, RECEPTS., ETC. REQUIRED BY MECHANICAL EQUIPMENT. PROVIDE FACTORY SPD IN PANEL C.				LINE TOTALS				13620	11488	8400	
ALL OUTSIDE 120V RECEPTACLES SHALL BE SPECIFICATION GRADE 20A GFCI TYPE WITH HD METAL IN-USE COVERS				LCL ADDER							
INSIDE RECEPTACLES SHALL BE SPECIFICATION GRADE 20A GFCI.				TOTAL VAP/PH				13620	11488	8400	
				LINE AMPS				114	96	70	
				TOTAL KVA LOAD				33.5			

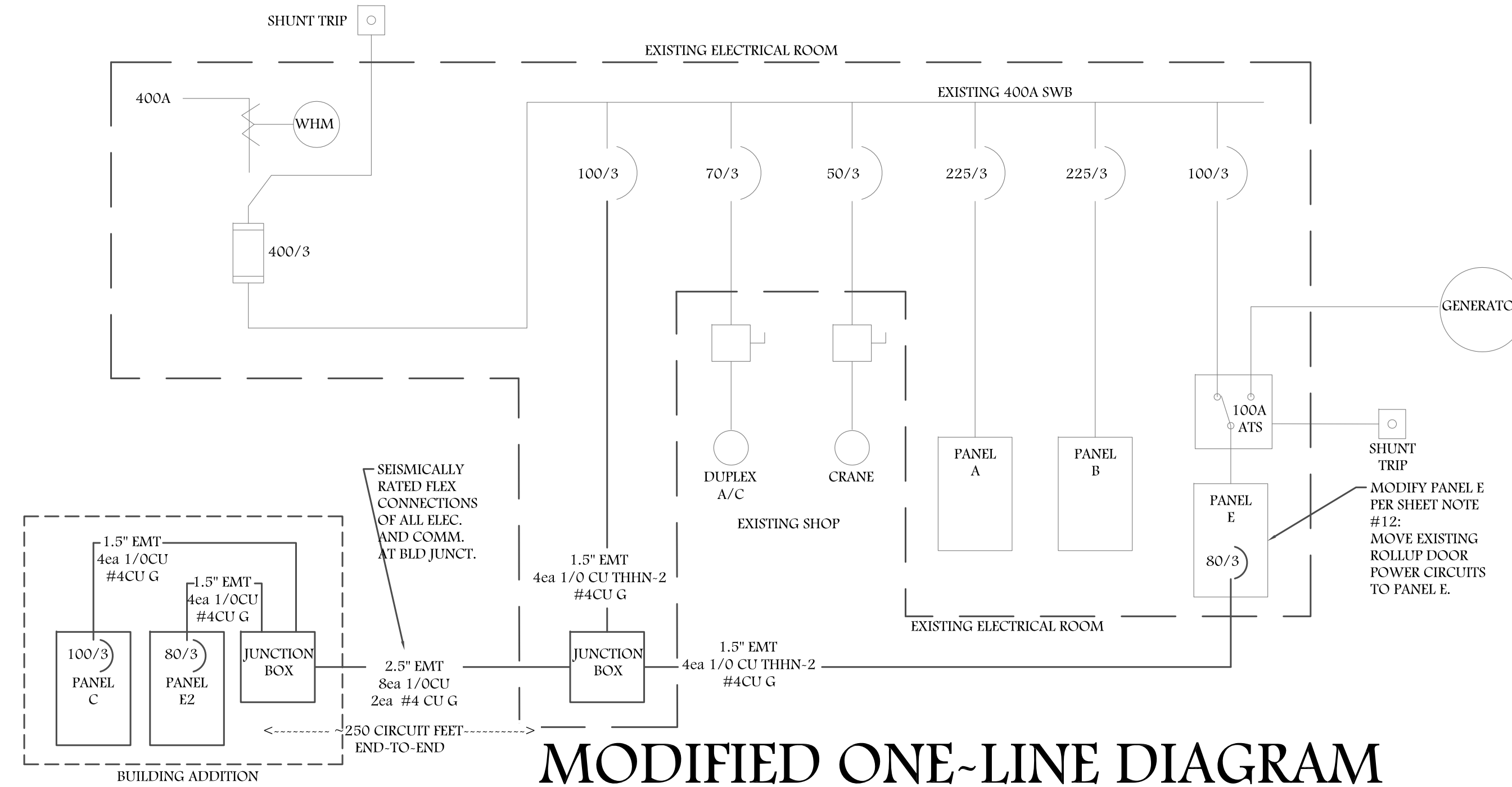
PANEL C SCHEDULE

PANEL " E2 "		208 Y/ 120 VOLT 3 PH 4 WIRE		125A main lug AMPERE MAIN 80 : 125 AMPERE BUS							
LOCATION Next to new Panel C			MOUNTING Surface			A.I.C. 22KAIC.					
CRK	LOAD			LOAD DESCRIPTION			LOAD				
	LINE A	LINE B	LINE C	REC	LITES	POLE	TRIP	A	B	C	
1											
3		1296									
5			1296								
7	20										
9											
11			202								
13	1600										
15		1600									
17			1600								
19	1600										
21											
23											
25											
27											
29											
31											
33											
35											
37											
39											
41											
42											
SUB TOTALS				2700	4096	3856					
NOTES: PROVIDE ALL CIRCUITS, CONDUIT, WIRE, DISCONNECTS, RECEPTS., ETC. REQUIRED BY MECHANICAL EQUIPMENT. PROVIDE FACTORY SPD IN PANEL E2.				LINE TOTALS				5920	8592	6953.6	
ALL OUTSIDE 120V RECEPTACLES SHALL BE SPECIFICATION GRADE 20A GFCI TYPE WITH HD METAL IN-USE COVERS.				LCL ADDER							
SPRAY COVERS OF ALL RECEPTACLES ON E2 PANEL RED TO MARK AS ON EMERGENCY POWER.				TOTAL VAP/PH				5920	8592	6953.6	
INSIDE GFCI RECEPTACLES SHALL BE SPECIFICATION GRADE 20A.				LINE AMPS				49	72	58	
				TOTAL KVA LOAD				21.5			

PANEL E2 SCHEDULE

MODIFIED LOAD CALCULATION	
ITEM	KVA
PANEL A	7
PANEL B	18
PANEL E	33
CRANE	12.6
COMPRESSORS	18
25% LARGEST MOTOR	3
20% SPARE	15
Total Original kVA	107
Total Original Amperes	297A
ADDITIONAL LOADS - VA	
Lighting 3570sf @ 2VA/sf	7,500
Receptacles - Block Heaters	9,600
Ventilation+Heating	1,500
Roll-up Door	3,888
Total Added VA	22,488
Added Amperes	62
New Calculated Load - 208V Amperes	359

LOAD CALCULATION



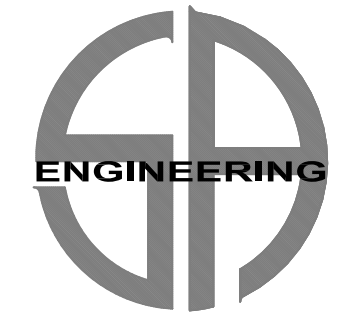
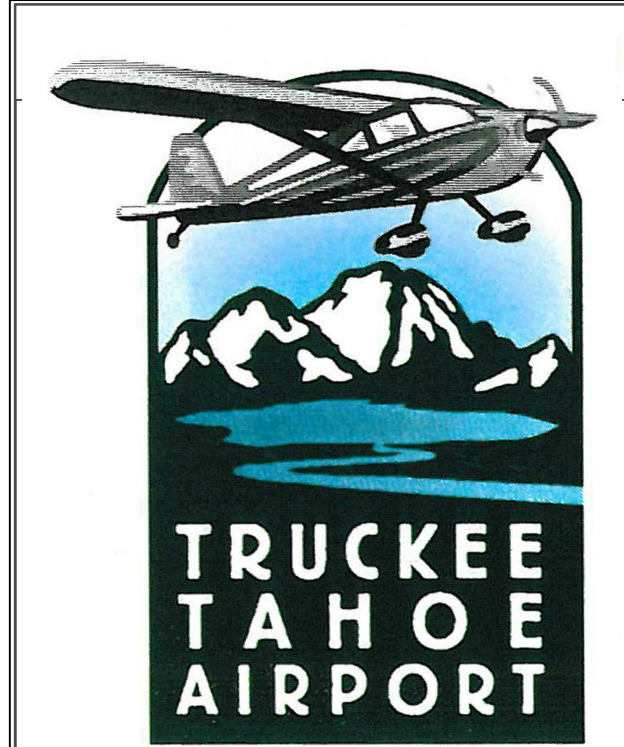
MODIFIED ONE-LINE DIAGRAM

GENERAL ELECTRICAL NOTES

- LIGHTING FIXTURE POWER SHALL NOT EXCEED TITLE 24 LIMITS
- LIGHTING FIXTURES SHALL BE LED TYPE WITH DIMMING POWER SUPPLIES
- LIGHTING CONTROLS SHALL BE OCCUPANCY SENSING WITH SENSORS INSTALLED AS REQUIRED FOR FULL COVERAGE OF THE LIT AREA
- DEFAULT CONDUIT IS 3/4" EMT, UNLESS CONDUCTOR FILL REQUIRES LARGER, WITH STEEL RAIN-TIGHT COMPRESSION FITTINGS. EMT IN/UNDER FLOOR SHALL BE RATED FOR UG AND CONCRETE EMBEDDMENT OR GRS OR PVC WITH GRS ELBOWS AND RISERS SHALL BE USED.
- SUPPORT 3/4" EMT 5' O.C. THROUGHOUT.
- DEFAULT LIGHTING CONDUCTOR IS #12 CU THHN-2 WITH #12GND. DEFAULT RECEPT. CONDUCTORS: DIRECT, UNDER SLAB, #10 W/#12 GND. OVERHEAD, #8 WITH #12GND (~150 CIRCUIT FEET). RUNS UNDER 50" MAY BE #12 WITH #12GND. LIMIT VOLTAGE DROP TO LESS THAN 2.5%.
- INSTALL BONDING CONDUCTORS IN ALL POWER CONDUITS.
- PANELS AND BREAKERS SHALL BE 22KAIC RATED
- SUBMIT SHOP DRAWINGS SHOWING MOUNTING METHODS FOR ALL SWITCHES, RECEPTACLES, CONTROLS, LIGHTING FIXTURES AND CONDUIT WITH DETAILS OF SUPPORT AND ATTACHMENT
- ALL RECEPTACLES AND SWITCHES SHALL BE SPECIFICATION GRADE
- DISTRIBUTE LOADS IN NEW E2 PANEL TO EQUALIZE CURRENTS ACROSS THREE PHASES IN PANEL E AND E2
- MOVE ONE CIRCUIT IN EXISTING PANEL E TO CLEAR SPACE FOR 80/3 BREAKER. PROVIDE EDITED PANEL SCHEDULE SHOWING NEW CIRCUIT ASSIGNMENT. MOVE EXISTING DOOR MOTORS NOT ON PANEL E TO PANEL E. INSTALL SUB-PANEL AND LARGER BREAKER IF REQUIRED. CONNECT THE LOADS TO THE UNDERLOADED GENERATOR PHASE.
- PROVIDE FACTORY INSTALLED SPD IN NEW PANELS E2 AND C.
- IDENTIFY AND EXTEND ORIGINAL OUTSIDE LIGHTING POWER CIRCUIT AND CONNECT NEW OUTSIDE LIGHTING FIXTURES TO THIS CIRCUIT
- PROVIDE ALL REQUIRED CIRCUITS, CONDUIT, DISCONNECTS, ETC. FOR MECHANICAL EQUIPMENT, GAS DETECTORS, ETC. SEE MECHANICAL PLANS
- PROVIDE CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL (FACP) IN ELECTRICAL ROOM FROM NEW SENSORS AND OTHER DETECTOR AND ALARM EQUIPMENT DESIGNED AND PROVIDED BY FIRE ALARM CONTRACTOR. F.A. CONTRACTOR SHALL SPECIFY CONDUIT AND BOX SIZES AND LOCATIONS.
- LIGHTING FIXTURES SUSPENDED FROM CEILING OR OTHER STRUCTURAL MEMBERS SHALL HAVE FACTORY SEISMIC TETHERING CABLES
- HEIGHT AFF OF RECEPTACLES AND SWITCHES SHALL BE PER ARCHITECT.
- WALL PLATES AND GFCI HD IN-USE COVERS OF RECEPTACLES ON E2 SHALL BE PAINTED RED. COLOR AND COATING TYPE BY ARCHITECT.
- PERMANENTLY LABEL THE PANEL AND CIRCUIT BREAKER NUMBER OF ALL RECEPTACLES WITH ENGRAVED LABELS ATTACHED WITH SILASTIC MASTIC.

LIGHTING FIXTURE SCHEDULE

- G.E. HIGHBAY LED LIGHT FIXTURE ABV1-0-1-V-47-9-N-V-22-A-A-W ALBEO 120V, 2 MODULE, 93W, STANDARD OUTPUT, 4K, 90° BEAM, DIMMING POWER SUPPLY COMPATIBLE WITH DIMMERS, 1/2" THREADED ROD MOUNTING KIT WITH 6' CORD, 15A PLUG, WHITE. WITH SEISMIC TETHER CABLE IF REQUIRED BY CODE OR MANUFACTURER. QUAN=12
- G.E. LOWBAY LED LIGHT FIXTURE ALCS-0-1-H48-8-S-N-V-ST-K-N-W ALBEO 120V, 1 MODULE, 38W, HIGH OUTPUT, 4K 80° CRI, 80° BEAM, 4FEET, STAND ALONE, NO SENSOR, DIMMING POWER SUPPLY COMPATIBLE WITH DIMMERS, STANDARD MOUNTING (TO CEILING), KNOCKOUT, WHITE. QUAN=12
- LED WALLPACK PER ITAD- DARK SKY COMPLIANT (FULL CUTOFF), EITHER INDIVIDUAL OR CENTRAL PHOTOELECTRIC CONTROL. BACKUP BATTERY IF FOR EGRESS LIGHTING APPROXIMATELY 50W. COOPER CROSSTOUR XTOR5A-MS/DIM-L20-CBP, 41W, MOTION+DIMMING CONTROL, COLD WX BATTERY BACKUP.
- LIGHTING FIXTURES AND CONTROLS SHALL BE C.E.C. CERTIFIED AND COMPLIANT WITH T-24 POWER LIMITS.
- FINALIZE FIXTURE PART NUMBERS WITH MANUFACTURER'S REPRESENTATIVE BEFORE SUBMITTING OR ORDERING.
- TOTAL TITLE 24 INSIDE LIGHTING ALLOWANCE FOR NEW SPACE: 3,570SF @ 1.0W/SF = 3,570VA.
- INSIDE LIGHTING:
12ea L1 @ 95 VA EACH = 1,140VA
12ea L2 @ 38 VA EACH = 456VA
TOTAL INSIDE LIGHTING = 1,596VA
- NEW OUTSIDE LIGHTING:
3 L3 @ 41 VA EACH = 123VA



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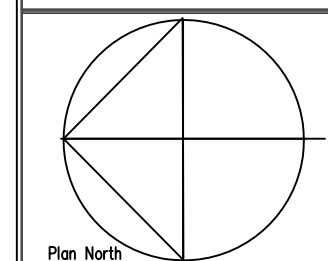
General Notes
VERIFY LOCATION OF ALL ELECTRICAL WITH OWNER & ARCHITECT DURING WALK THRU - PRIOR TO ROUGH IN.
BLDG ADDITION TO BE HEATED TO A MAX. 50° F



Project: AIRPORT
VEHICLE MAINT.
BLD. ADDITION
ONE-LINE DIAGRAM

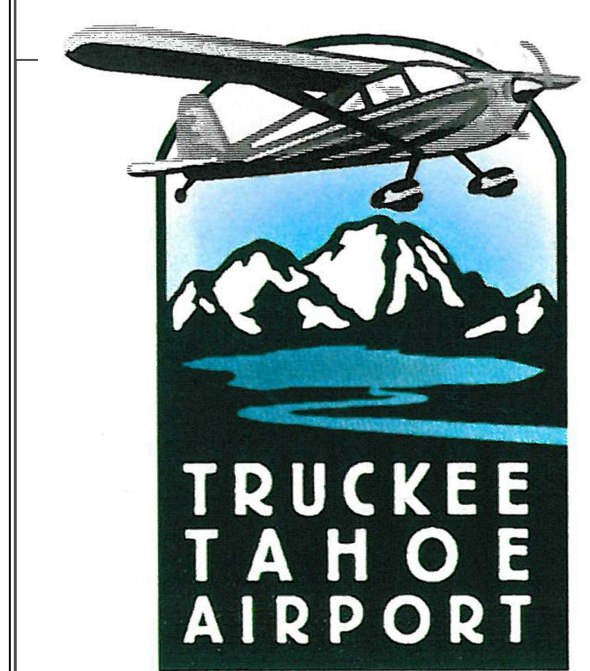
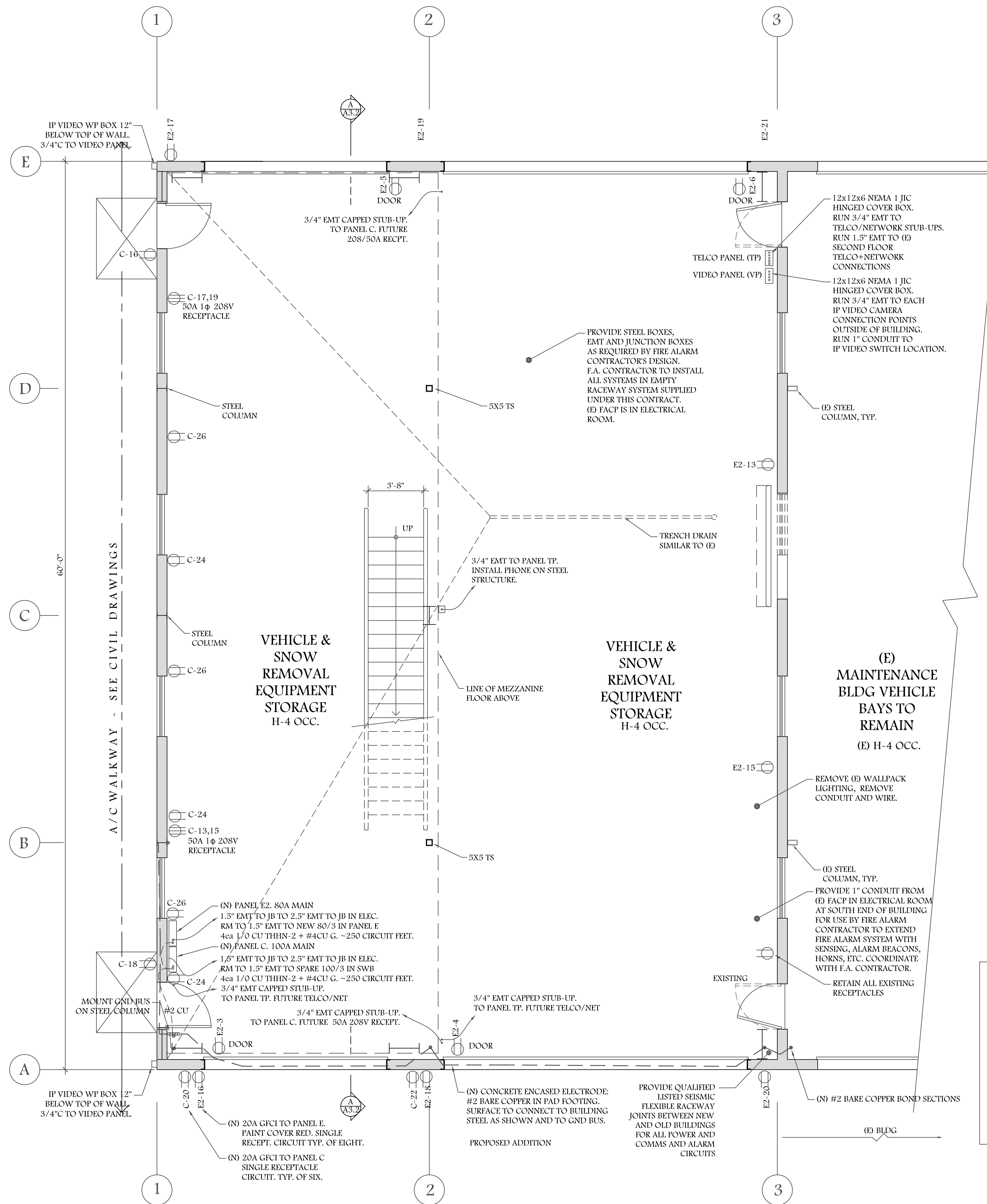
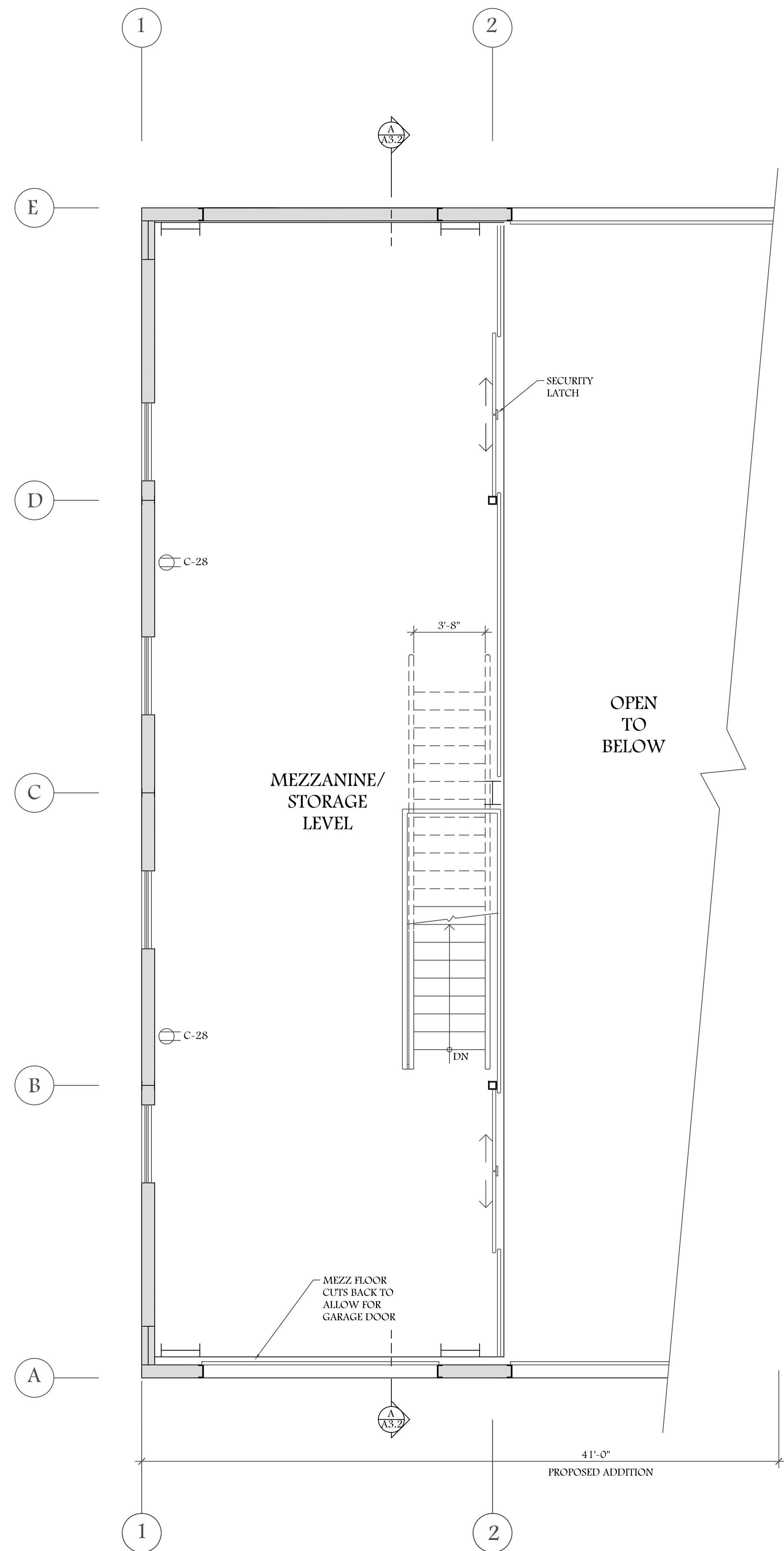
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Truckee, CA 96161
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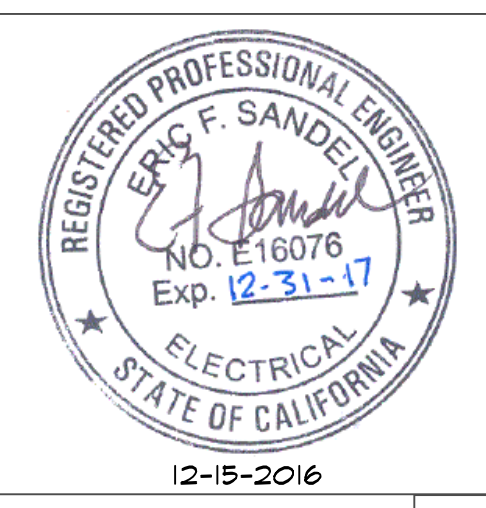
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Drawn: SD
Reviewed: EFS
Scale: 1/4" = 1'-0"

Sheet No.
E1.0

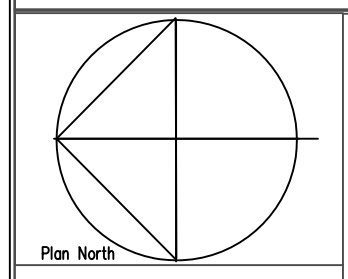


ENGINEERING
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General Notes
VERIFY LOCATION OF ALL ELECTRICAL WITH OWNER & ARCHITECT DURING WALK THRU - PRIOR TO ROUGH IN.
BLDG ADDITION TO BE HEATED TO A MAX. 50° F

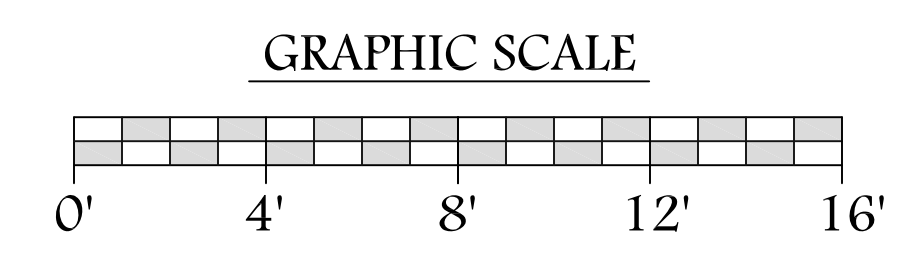


AIRPORT VEHICLE MAINT. BLD. ADDITION PWR & DATA PLAN
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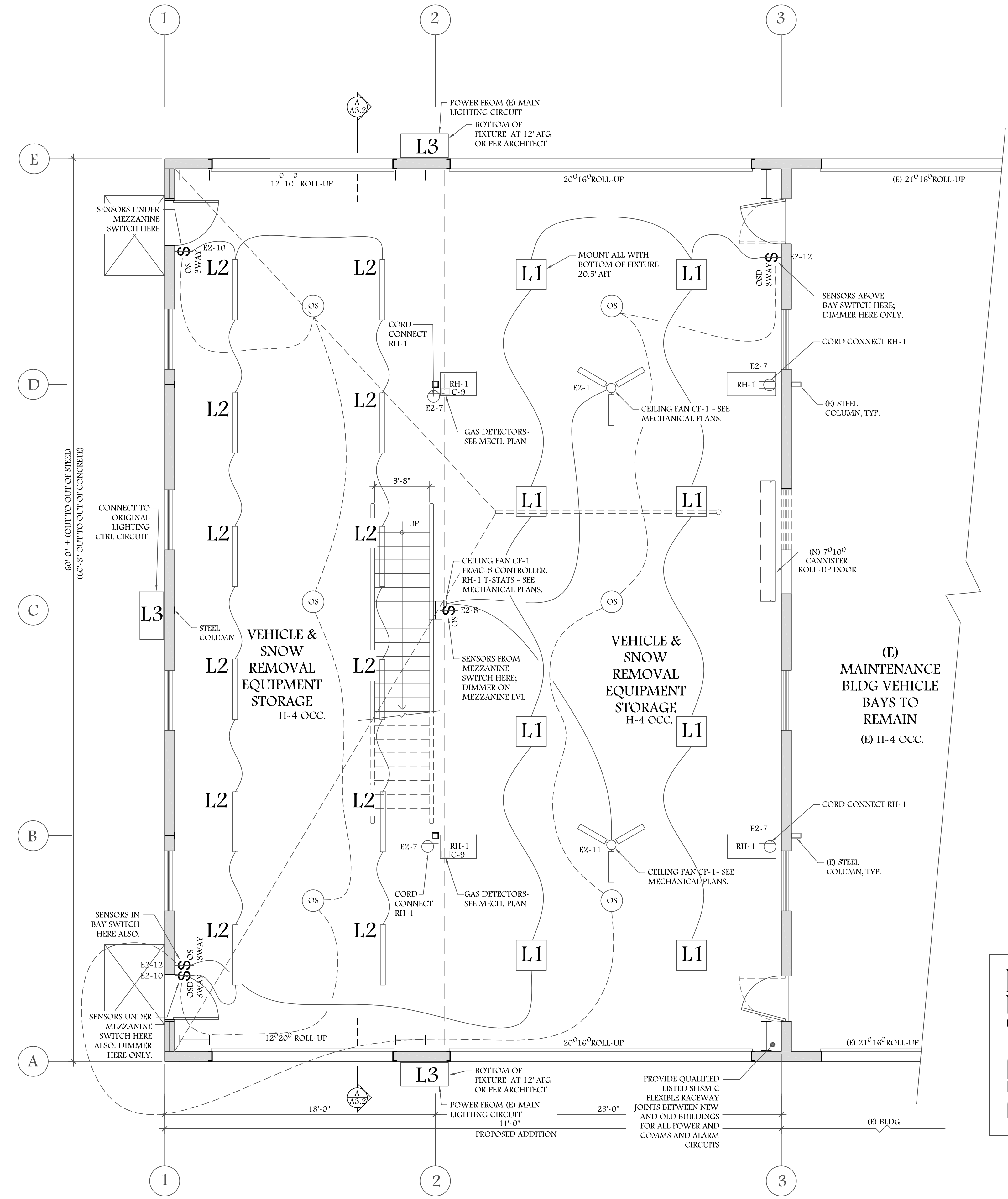
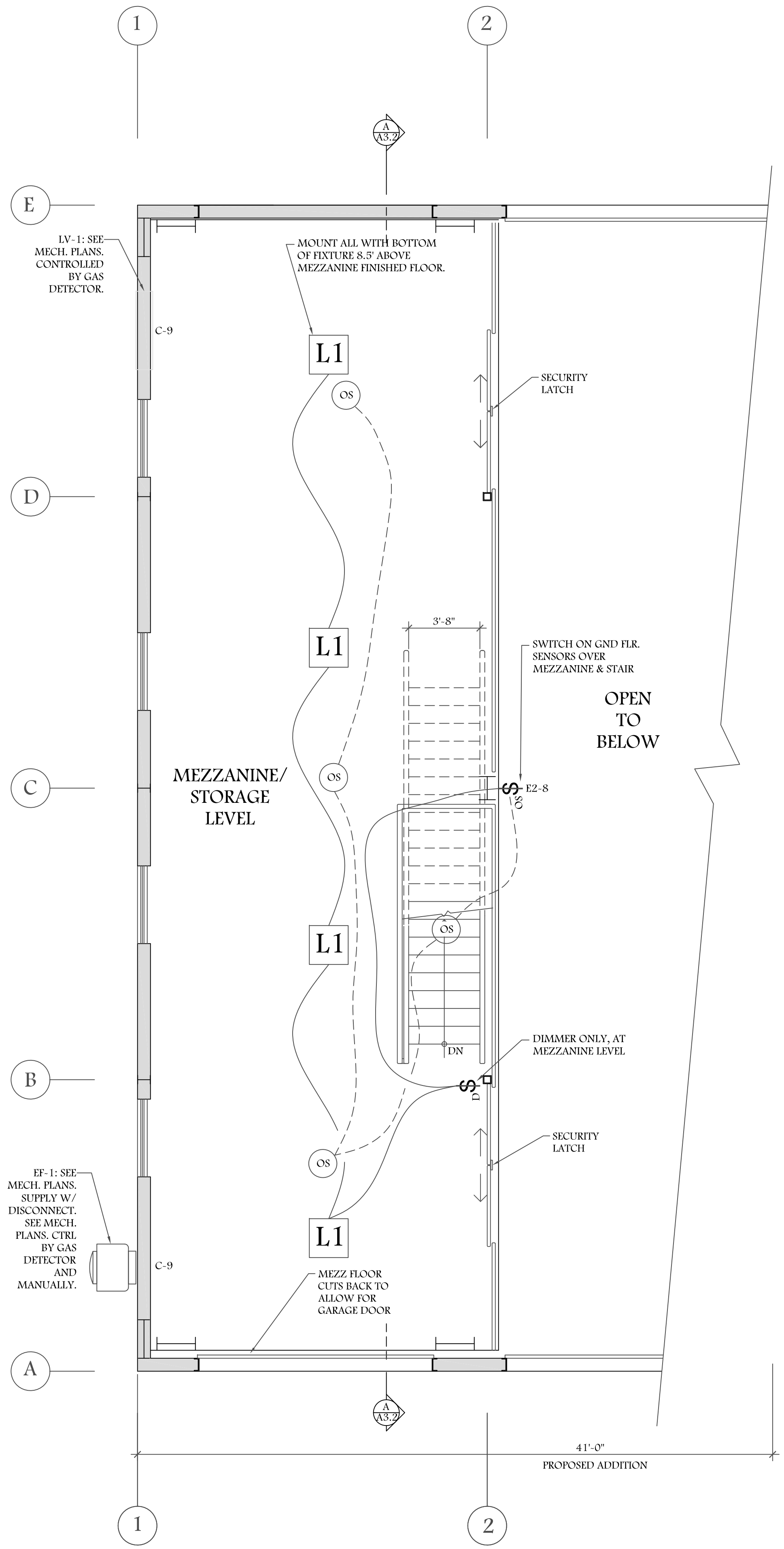


Date 12/15/16
Drawn SD
Reviewed EFS
Scale 1/4" = 1'-0"

BID SET

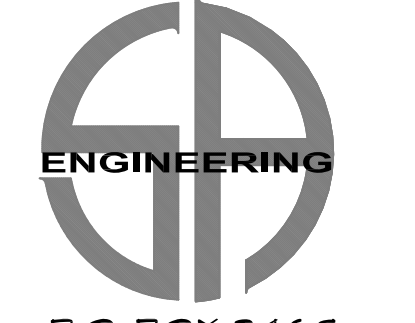
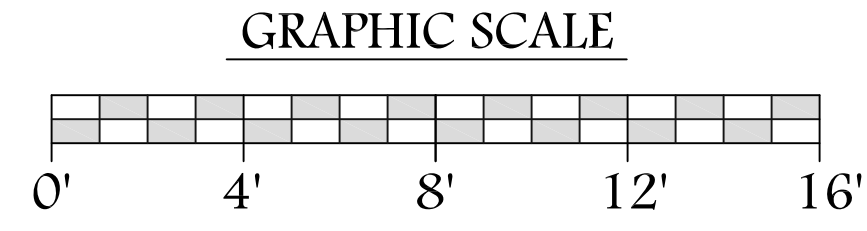


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UPPER FLOOR LIGHTING & HVAC PLAN
1110 S.F. MEZZ & STORAGE

LOWER FLOOR LIGHTING & HVAC PLAN
2460 S.F. ADDITION



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General Notes
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BLDG ADDITION TO BE HEATED TO A MAX. 50° F

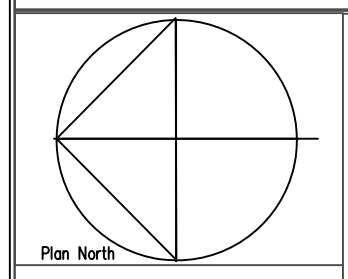


12-15-2016

Project: AIRPORT
VEHICLE MAINT. BLD. ADDITION:
LTG & HVAC PLAN

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Date	12/15/16	Sheet No.	E2.1
Drawn	SD		
Reviewed	EFS		
Scale	1/4" = 1'-0"		

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