

AUKE BAY LOADING FACILITY BOAT YARD BUILDINGS

VOLUME II of II

Contract No. DH17-008

File No. 1931





MRV ARCHITECTS
1420 GLACIER AVE. #101
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CONSTRUCTION DOCUMENTS

AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES

CBJ DOCKS AND HARBORS

Contract No: DH17-008

MRV No: 1519

GENERAL ABBREVIATIONS (SEE ENGINEERING SHEETS FOR ADDITIONAL)

@	AT	GA	GAUGE, GYPSUM ASSOCIATION	RAD	RADIUS
AB	ANCHOR BOLT(S)	GALV	GALVANIZED	RB	RESILIENT WALL BASE
ACT	ACOUSTICAL CEILING TILE	GB	GRAB BAR	REINF	REINFORCED, REINFORCING
ADA	AMERICANS W/ DISABILITIES ACT	GL	GLASS, GLAZING	REQD	REQUIRED
ADJ	ADJUSTABLE	GLU-LAM	GLUED-LAMINATED	RESIL	RESILIENT
AFF	ABOVE FINISH FLOOR	GWB	GYPSUM WALL BOARD	RESIST	RESISTANT
ALM	ALTERNATE	GWS	GYPSUM WALL SHEATHING	REV	REVISION, REVISE
ALUM	ALUMINUM	GYP	GYPSUM	R/F	REFRIGERATOR/FREEZER
APC	ACOUSTICAL PANEL CEILING	H	HIGH	RM	ROOM
APPRX	APPROXIMATE	HDWD	HARDWOOD	RO	ROUGH OPENING
ASPH	ASPHALT	HM	HOLLOW METAL	ROW	RIGHT-OF-WAY
AT	ACOUSTICAL TILE	HSS	HOLLOW STEEL SECTION	RTN	RETURN
BATT	MINERAL FIBRE BLANKET	HT	HEIGHT	S	SOUTH
BLDG	BUILDING	HORZ	HORIZONTAL	S-AWPM	SELF-ADHERED WATERPROOF MEMBRANE
BLKG	BLOCKING	ID	INSIDE DIAMETER	SCHED	SCHEDULE
BOC	BOTTOM OF CONCRETE	IN	INCH	SD	SOAP DISPENSER
BOD	BOTTOM OF DECK	INCL	INCLUDING, INCLUDED	SECT	SECTION(AL)
BO	BOTTOM OF	INSUL	INSULATION, INSULATED	SHT	SHEET
BOS	BOTTOM OF STEEL	JST	JOIST	SIM	SIMILAR
CG	CENTERLINE	KIT	KITCHEN	SPEC	SPECIFICATIONS(S)
CLG	CORNER GUARD	L	LENGTH	SO	SQUARE
CLR	CLEAR	LAM	LAMINATE(D)	STD	STANDARD
COL	COLUMN	LAV	LAVATORY	STL	STEEL
CONC	CONCRETE	LB	POUND	STOR	STORAGE
CONFIG	CONFIGURATION	LF	LINEAL FEET	STRUCT	STRUCTURE, STRUCTURAL
CONST	CONSTRUCTION	LVR	LOUVER	SS	STAINLESS STEEL
CONT	CONTINUOUS	MAT	MATERIAL	SYMM	SYMMETRIC(AL)
COORD	COORDINATE	MAX	MAXIMUM	T	TREAD(S), TOILET
CORR	CORRIDOR	MB	MARKERBOARD	T&G	TONGUE AND GROOVE
CPT	CARPET	MECH	MECHANICAL	TOC	TOP OF CONCRETE
CSNK	COUNTERSINK	MEZZ	MEZZANINE	TEL	TELEPHONE
DIA	DIAMETER	MH	MOP HOLDER	TEMP	TEMPORARY
DISP	DISPENSER	MIN	MINIMUM	TOC	TOP OF CONCRETE
DIM	DIMENSION	MISC	MISCELLANEOUS	TOD	TOP OF DECKING
DN	DOWN	MTD	MOUNTED	TOF	TOP OF FOOTING
DS	DOWNSPOUT	MTL	METAL	TOS	TOP OF STEEL
DWG	DRAWING	MUL	MULLION	TP	TOWEL PIN
(E)	EXISTING	MW	MICROWAVE UNIT	TS	TUBE STEEL
E	EAST	N	NORTH	TV	TELEVISION
EA	EACH	NIC	NOT IN CONTRACT	TYP	TYPICAL
EIFS	EXTERIOR INSULATION FINISH SYSTEM	NO#	NUMBER	UC	UNDER COUNTER
ELEC	ELECTRIC(AL)	NOM	NOMINAL	UON	UNLESS OTHERWISE NOTED
ENGR	ENGINEER	NTS	NOT TO SCALE	VCT	VINYL COMPOSITION TILE
EP	ELECTRICAL PANELBOARD	OA	OVERALL	VERT	VERTICAL
EPS	EXPANDED POLYSTYRENE	OC	ON CENTER	VF	VERIFY IN FIELD
EQ	EQUAL	OD	OUTSIDE DIAMETER	VOL	VOLUME
EQUIP	EQUIPMENT	OFCI	OWNER FURNISH CONTRACTOR	VR	VAPOR RETARDER
EXTG	EXISTING	OFI	OWNER FURNISH OWNER INSTALL	VTR	VENT THROUGH ROOF
FA	FIRE ALARM	OH	OVERHEAD, OPPOSITE HAND	W	WEST
FD	FLOOR DRAIN	OPNG	OPENING	W/	WITH
FDN	FOUNDATION	OPP	OPPOSITE	WO	WITHOUT
FE	FIRE EXTINGUISHER	OSB	ORIENTED STRAND BOARD	WB	WOOD BASE
FEC	FIRE EXTINGUISHER CABINET	PDF	POWER DRIVEN FASTENER	WC	WATER CLOSET
FF	FINISH FACE	PERF	PERFORATED	WD	WOOD
FFB	FINISH FLOOR BREAK	PIC	POLYISOCYANURATE BOARD	WF	WIDE FLANGE
FIN	FINISH	PL	PLATE	WP	WATERPROOF
FL	FLOORING	PLAM	PLASTIC LAMINATE	WM	WALK-OFF MAT
FOC	FACE OF CONCRETE	PLAS	PLASTER	WR	WATER RESISTANT
FOF	FACE OF FINISH	PLYWD	PLYWOOD	WSCT	WAINSCOT
FSS	FOLDING SHOWER SEAT	POLY	POLYETHYLENE	WT	WEIGHT
FOS	FACE OF STUD	PREFAB	PREFABRICATED	XPS	EXTRUDED PLASTICBOARD INSULATION
FRT	FIRE-RETARDANT TREATED	PREFIN	PREFINISHED	YD	YARD, YARD DRAIN
FT	FOOT, FEET	PT	PRESSURE TREATED		
FTG	FOOTING	PTA, PT1	PAINT TYPE "A", PAINT TYPE "1", ETC.		
FURR	FURRING	PTD	PAPER TOWEL DISPENSER		
		PVC	POLY VINYL CHLORIDE		

PROJECT DESCRIPTION

Overview
The project is one framed stand-alone building, one addition to an existing framed building and the foundation and erection of an OFCI fabric building.

The stand-alone framed building is a shop building. The addition is a small office added to the front of an existing utility building. Both framed buildings are wood-framed with concrete slab foundations.

The fabric building has already been purchased by the Owner. Work this contract will include the structural foundation for the building as well as erection of the fabric building.

DESIGN TEAM

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JUNEAU, AK 99801

907-780-6060

MANAGER: MIKE STORY
EMAIL: rmengineering@rmjuneau.com

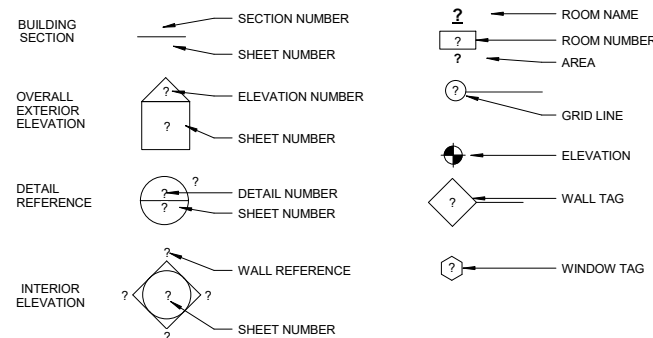
ELECTRICAL ENGINEER

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MANAGER: MARK MORRIS
EMAIL: info@morrisingengineeringgroup.com

DRAWING LEGEND



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A2.1	Shop Building Floor Plan
A2.2	Shop Building Roof Plan
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CONSTRUCTION DRAWINGS

AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES

for CBJ Docks and Harbors Dept.

MRV 1519

Contract No: DH17-008

No.	Description	Date

SHEET TITLE:
Notes, Abbreviations,
Sheet Index

DATE: 11/4/2016
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SHEET NO.
G1.1

NOTE: 11"x 17" PRINT IS HALF SIZE

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SHEET NOTES

- | | | |
|---|------------------------|---------------------|
| ① SHOP, SEE A2.1 | ⑥ CONC BARRIER, NIC | ⑫ STRIPING, NIC |
| ② OFFICE, SEE A2.3 | ⑦ GATE, NIC | ⑬ (E) BOLLARD |
| ③ FABRIC-COVERED BUILDING, OFCI
SEE STRUCT. FOR FOUNDATION | ⑧ DUMPSTER, NIC | ⑭ (E) GATE |
| ④ (E) UTILITY BUILDING | ⑨ PORTABLE TOILET, NIC | ⑮ (E) CONC. BARRIER |
| ⑤ WASH-DOWN PAD, NIC | ⑩ (E) CATCH BASIN | ⑯ (E) LIGHT POLE |
| | ⑪ (E) STORM DRAIN LINE | ⑰ (E) BOULDER |



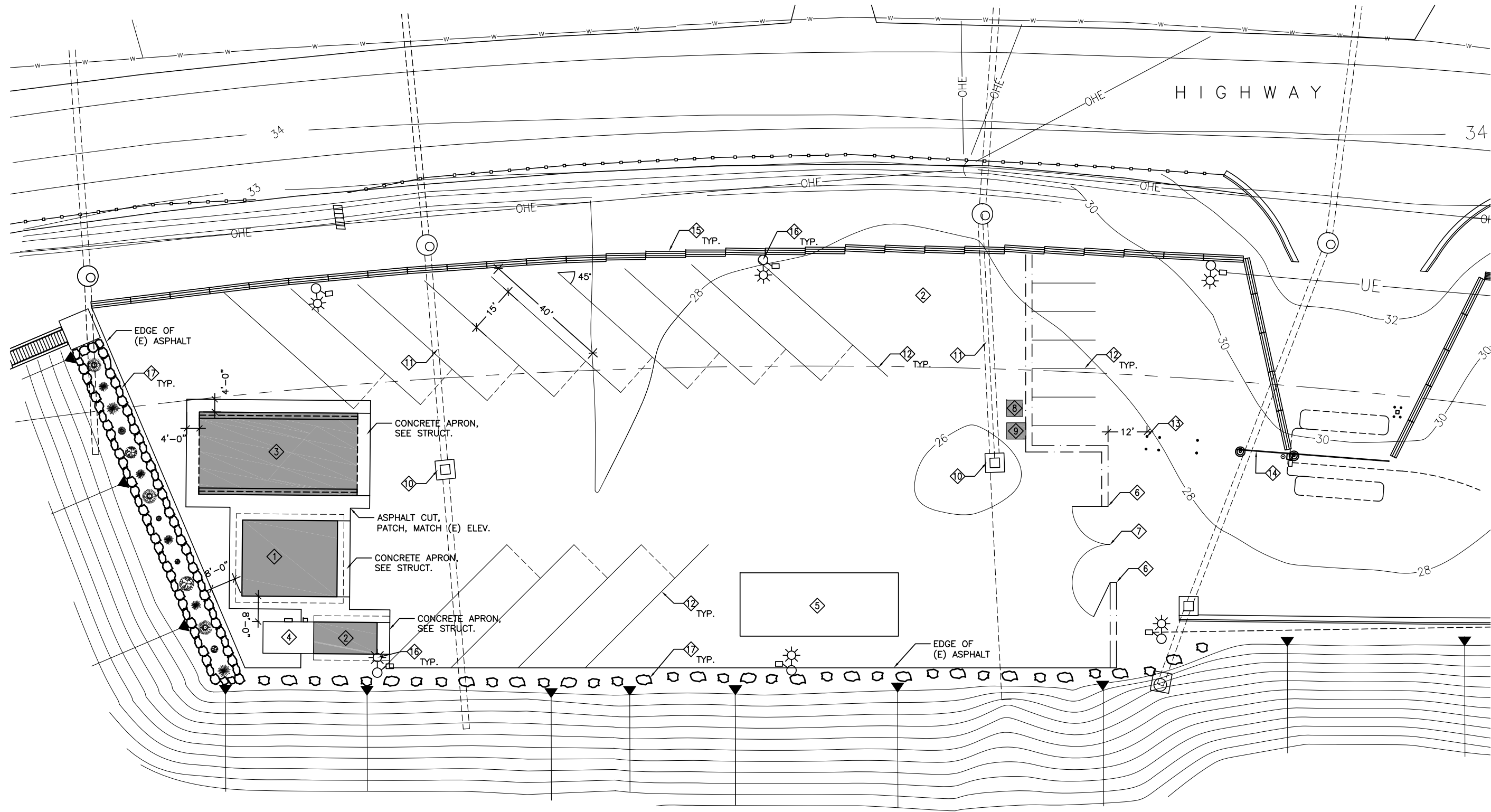
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No.	Description	Date

SHEET TITLE:
Site Plan

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A1.1

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① Overall Site Plan
1/32" = 1'-0"

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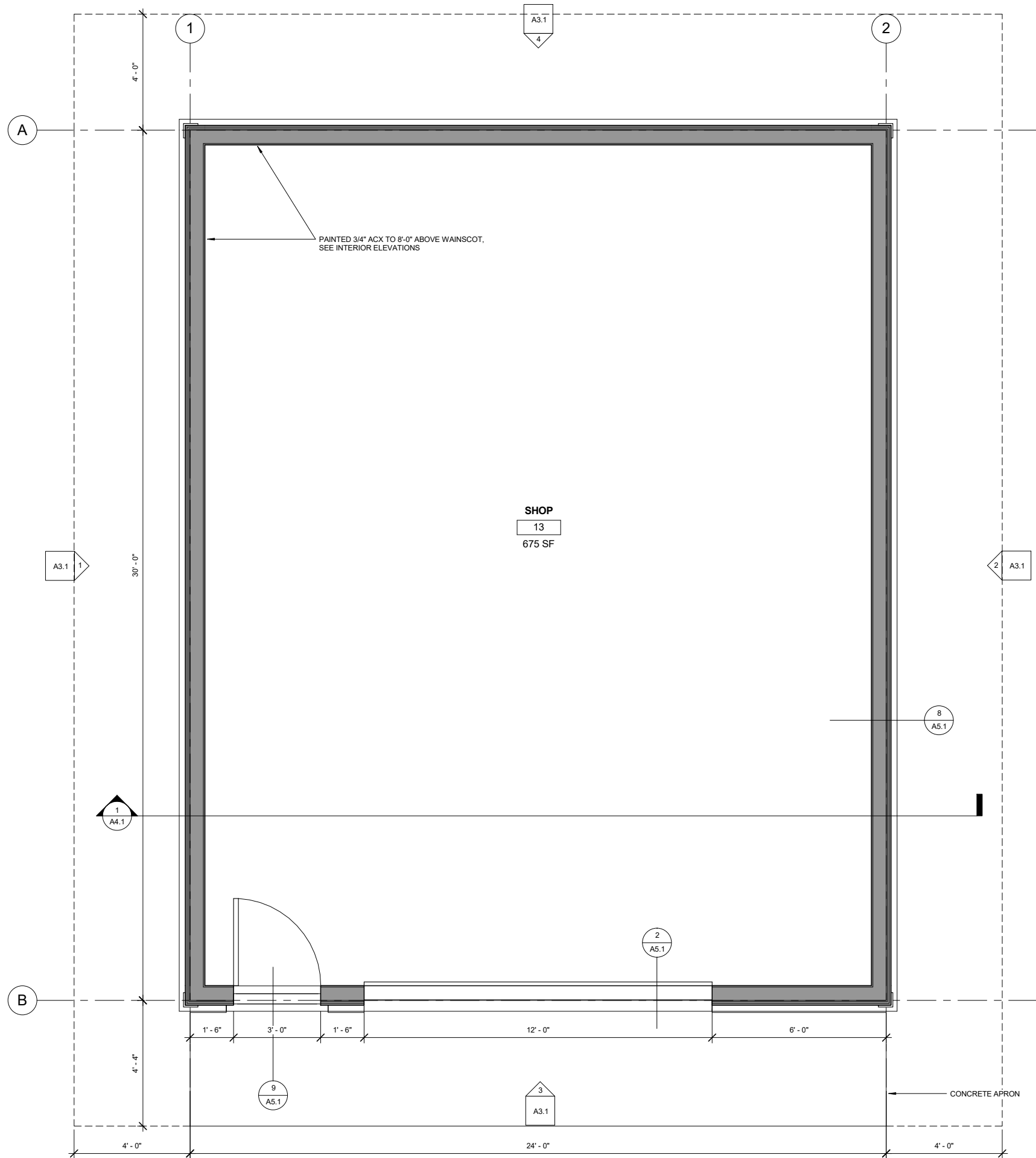
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Shop Building Floor Plan

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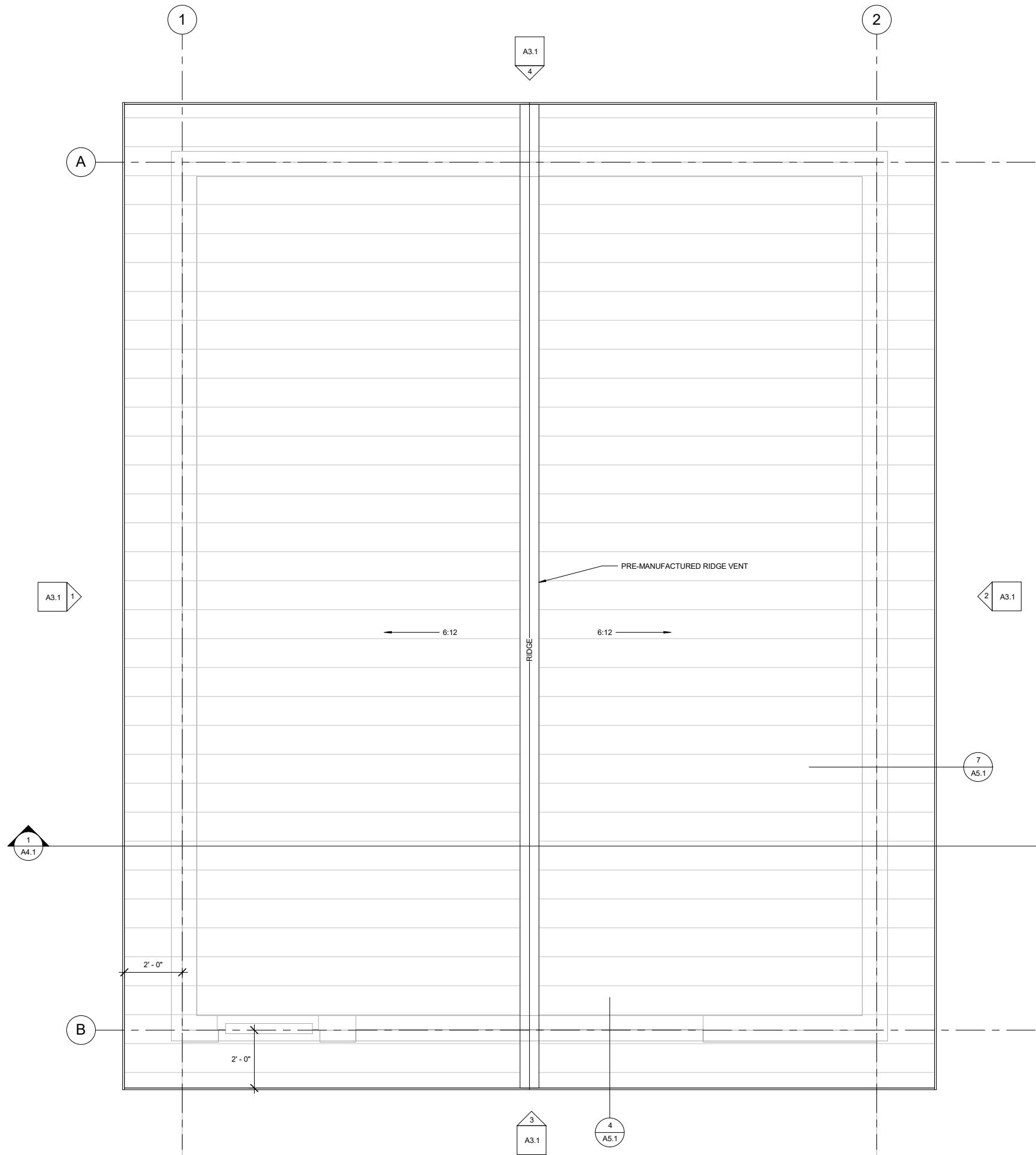
A2.1



1 Shop Floor Plan
1/2" = 1'-0"
0' 1' 2' 4'

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1 Roof Plan
1/2" = 1'-0"

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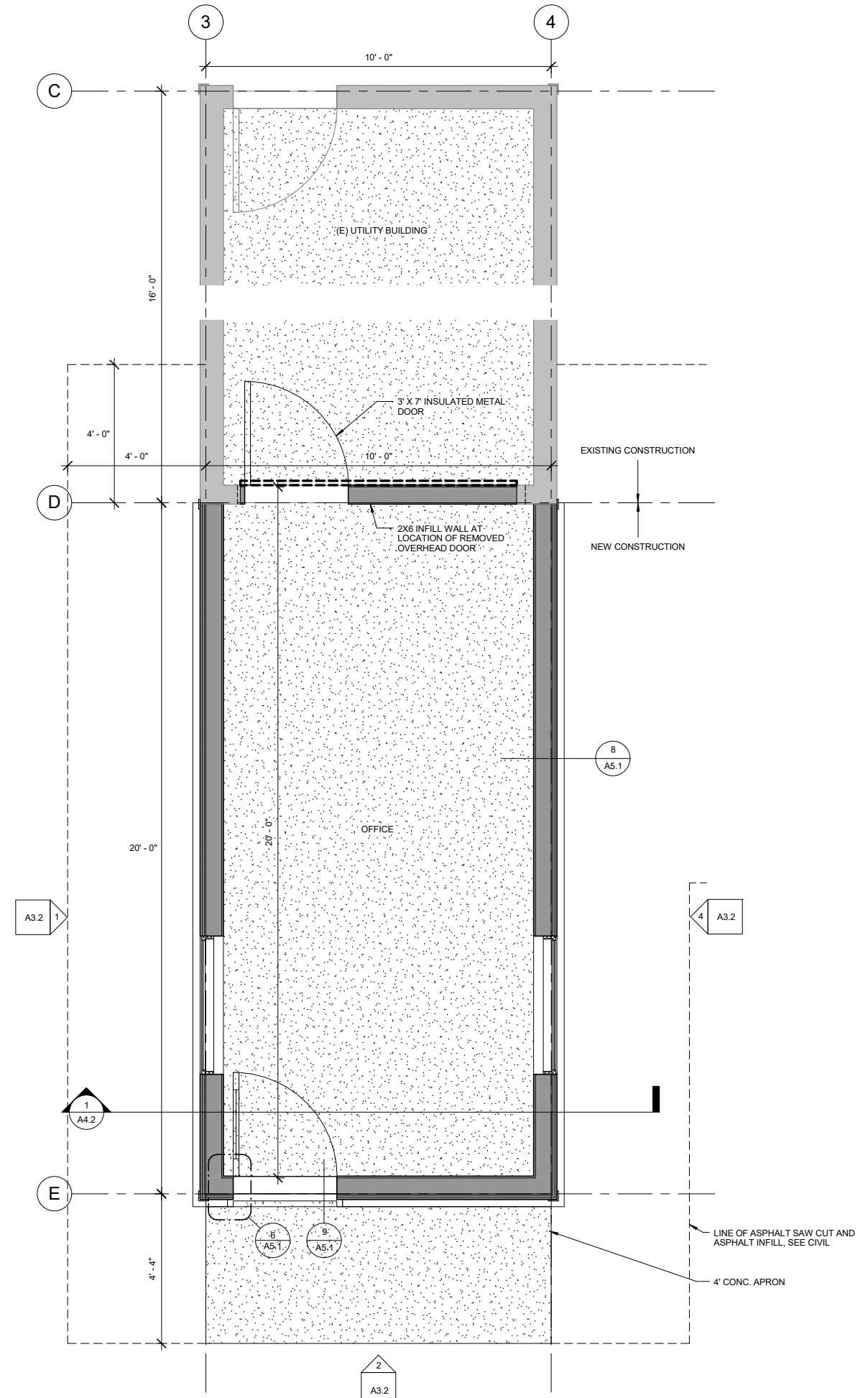
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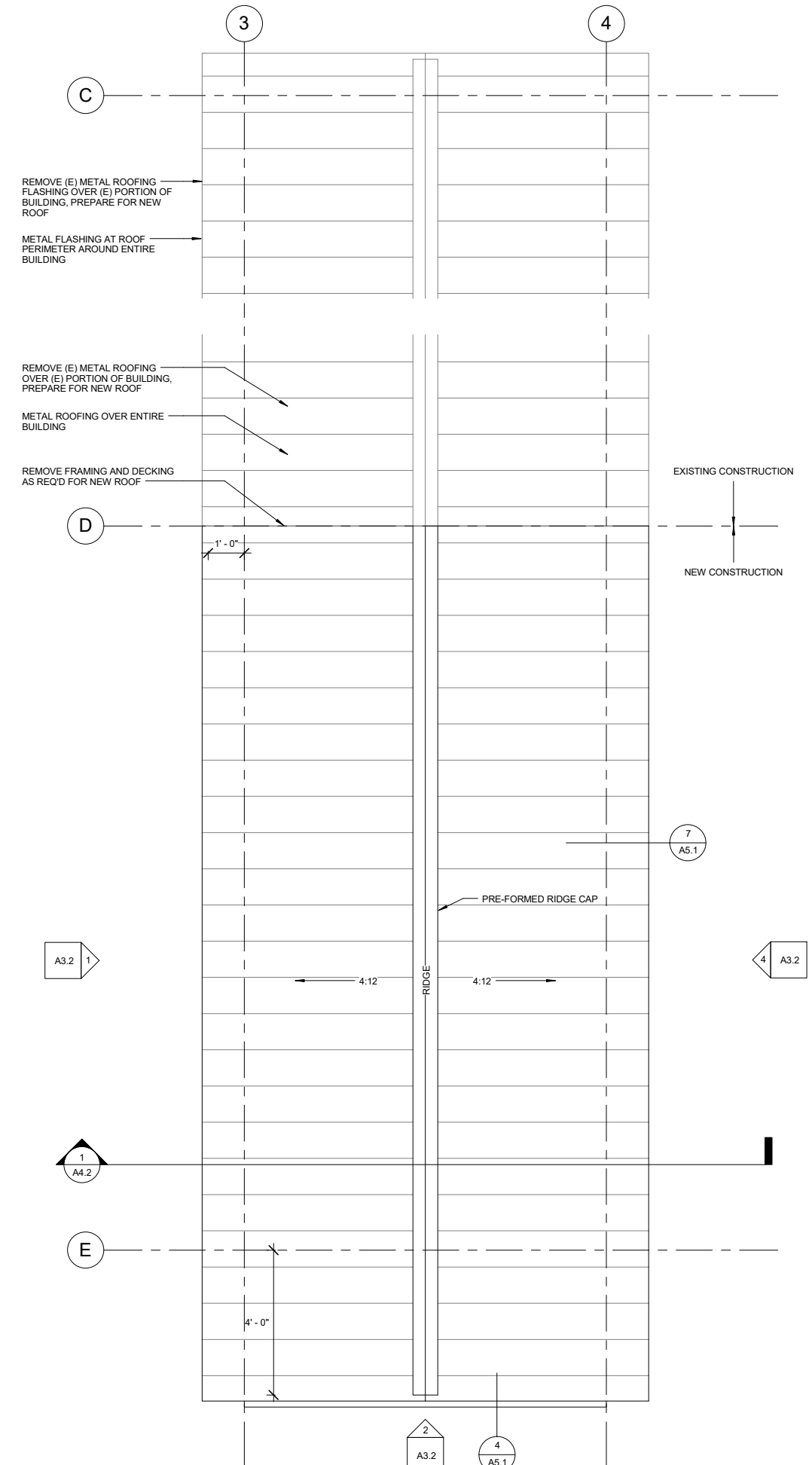
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A2.2

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1 Office Floor Plan
1/2" = 1'-0"
0' 1' 2' 4'



2 Office Roof Plan
1/2" = 1'-0"
0' 1' 2' 4'

NOTE: 11"x 17" PRINT IS HALF SIZE



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No.	Description	Date

SHEET TITLE:
Office Building Floor
and Roof Plans

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A2.3



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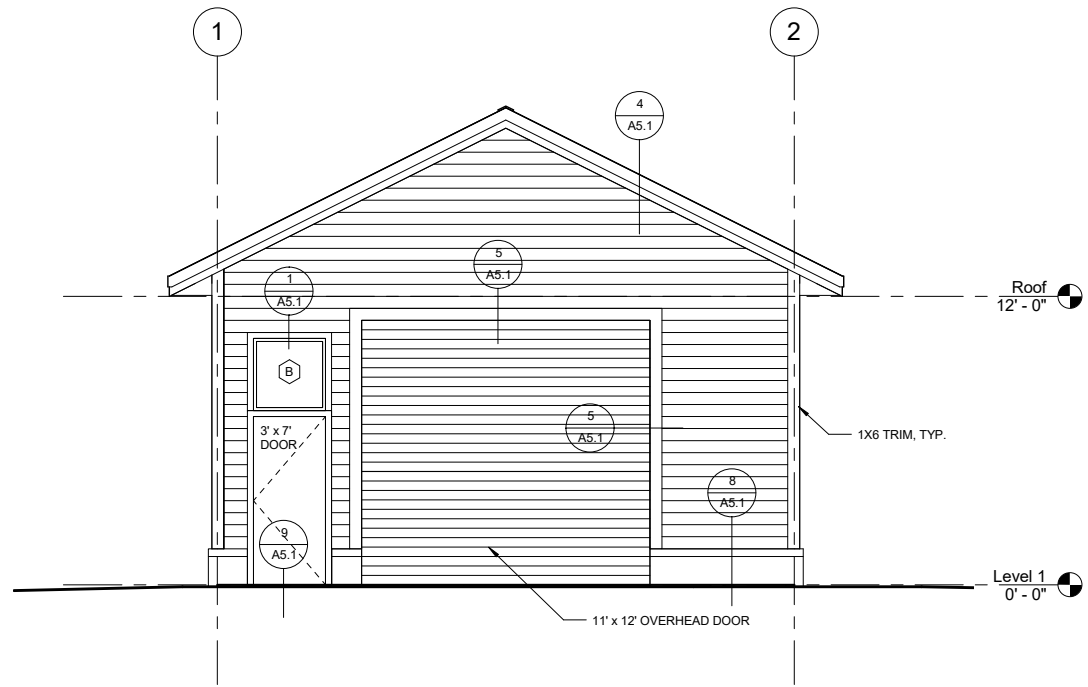
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Shop Building Exterior Elevations

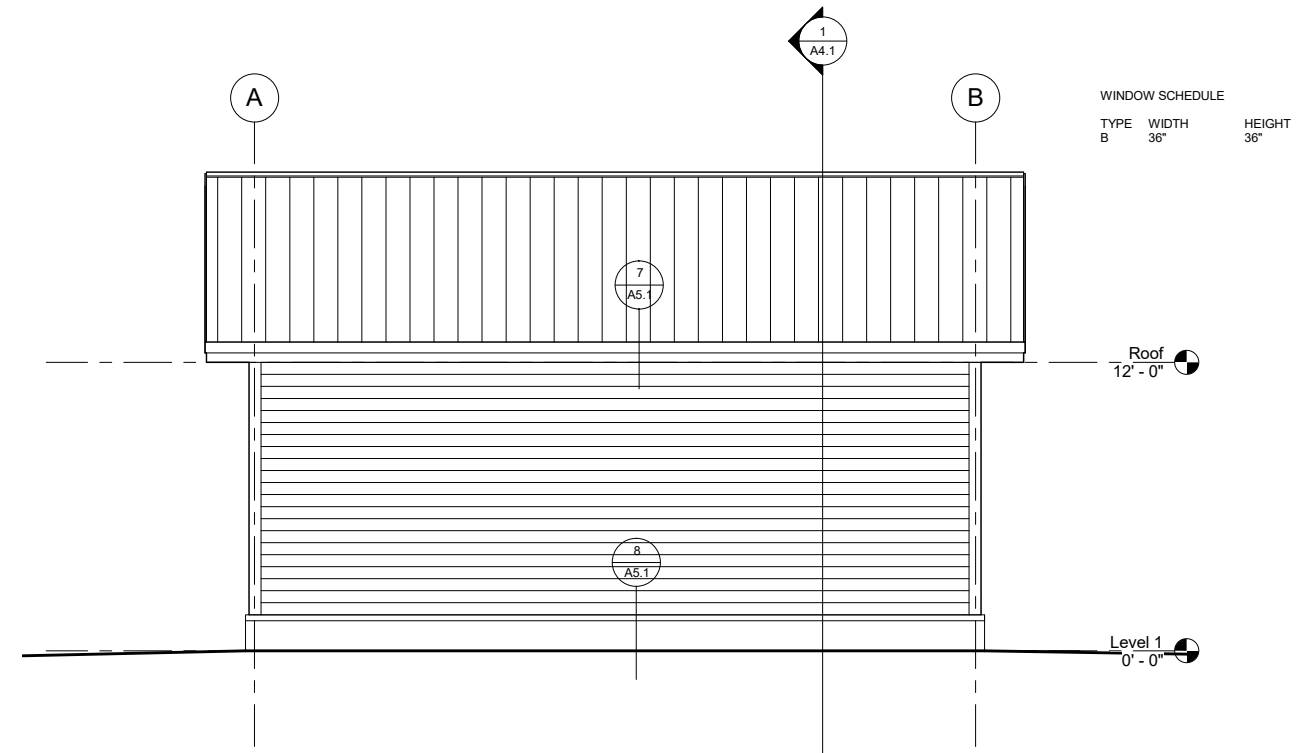
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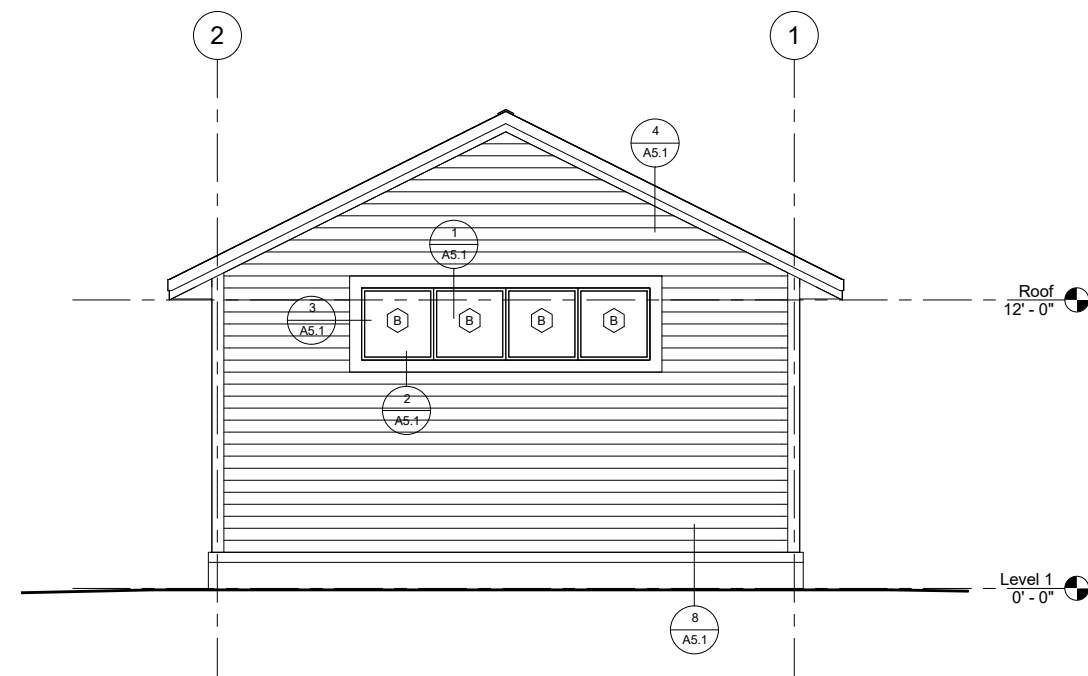
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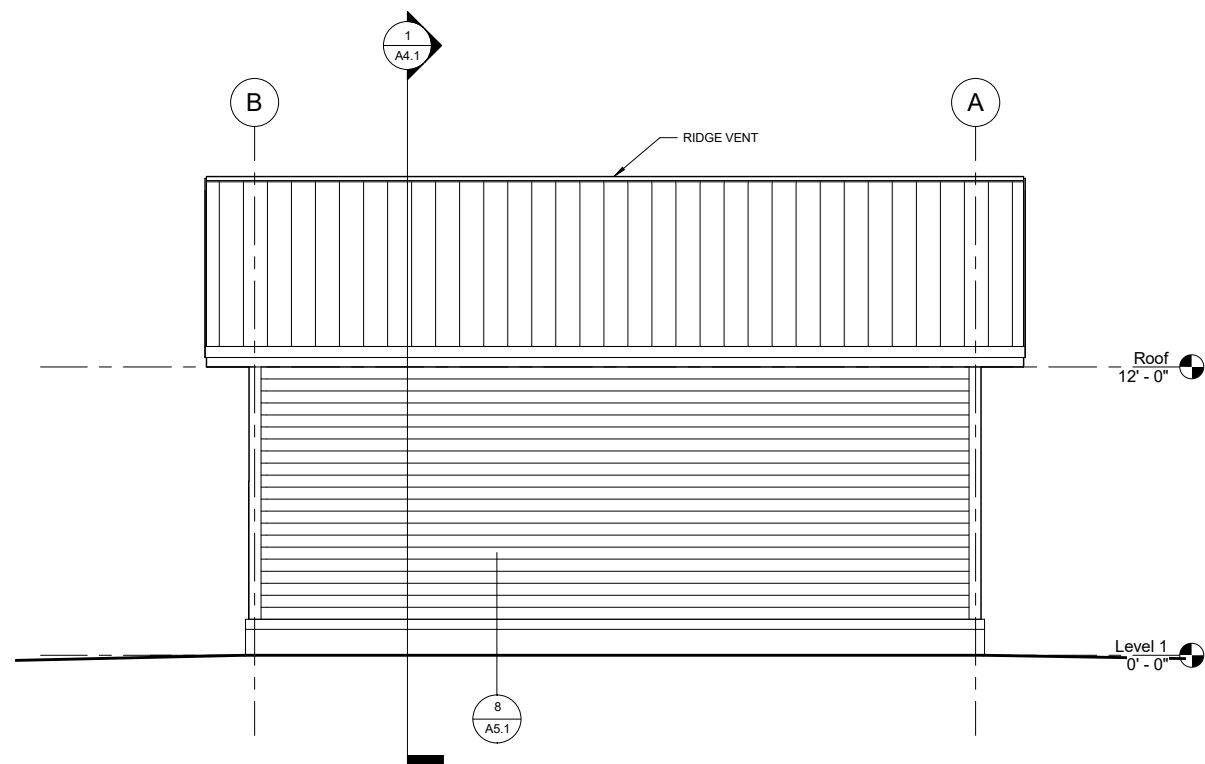
③ East Elevation
1/4" = 1'-0"
0' 2' 4' 8'



① South Elevation
1/4" = 1'-0"
0' 2' 4' 8'



④ West Elevation
1/4" = 1'-0"
0' 2' 4' 8'



② North Elevation
1/4" = 1'-0"
0' 2' 4' 8'

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Contract No: DH17-008

No.	Description	Date

SHEET TITLE:
Office Building
Exterior Elevations

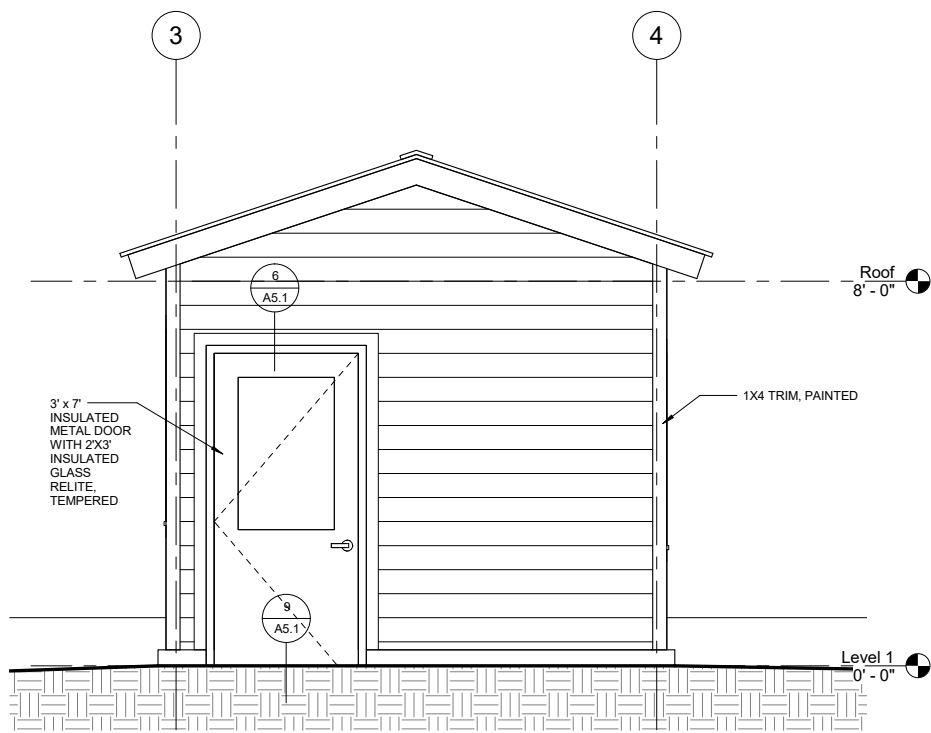
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A3.2

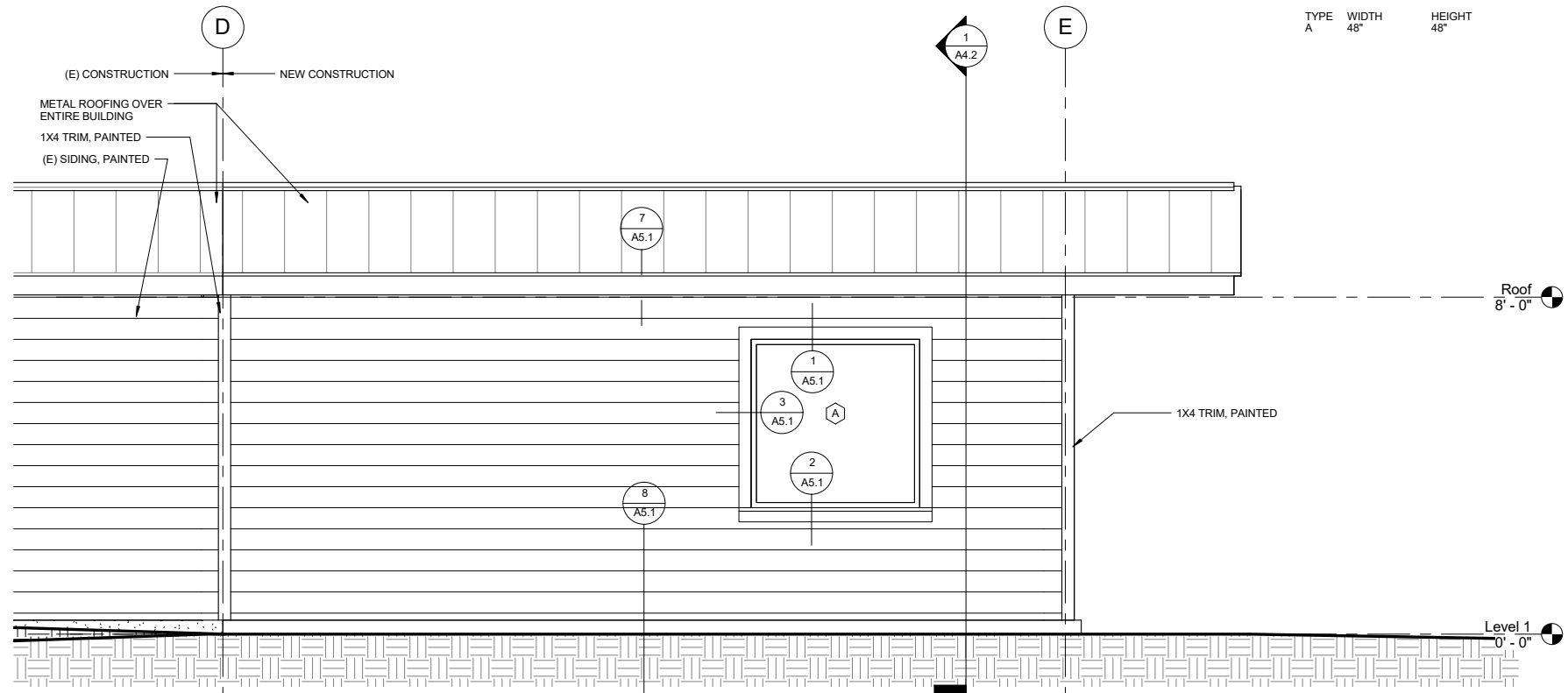
WINDOW SCHEDULE

TYPE	WIDTH	HEIGHT
A	48"	48"



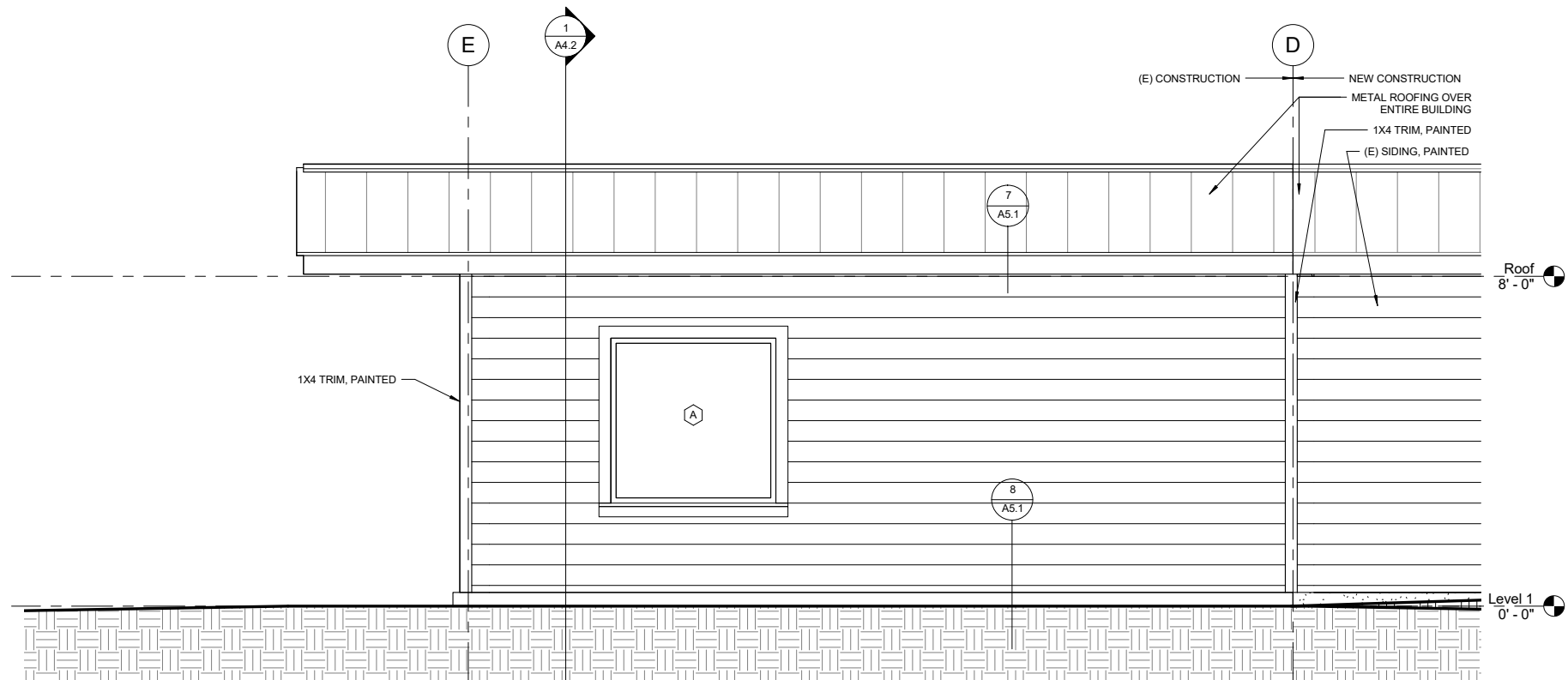
2 South Elevation

1/2" = 1'-0"
0' 1' 2' 4'



1 East Elevation

1/2" = 1'-0"
0' 1' 2' 4'



4 West Elevation

1/2" = 1'-0"
0' 1' 2' 4'

- SHEET NOTES:
1. REMOVE (E) METAL ROOFING AND ASSOCIATED FLASHING FROM (E) UTILITY BUILDING.
 2. REMOVE (E) ROOF SHEATHING, TRUSSES AND FRAMING FROM (E) UTILITY BUILDING AS REQ'D FOR NEW WORK. SEE STRUCT.
 3. REMOVE (E) CORNER TRIM AT LOCATION OF NEW ADDITION.
 4. RETAIN (E) SIDING, FASCIA, SOFFIT, ETC. AT (E) BUILDING WHERE POSSIBLE. PREPARE FOR NEW WORK.
 5. ALIGN NEW AND OLD WORK AT SOFFITS, FASCIAS, AND FOUNDATIONS. ADJUST DIMENSIONS AS REQ'D.
 6. REPLACE ROOF AND ASSOCIATED FLASHINGS AT (E) BUILDING.
 7. PAINT/REPAINT ENTIRE BUILDING, INCLUDING WOOD TRIM, FASCIAS AND SOFFITS. ASSUME 3 COLORS.

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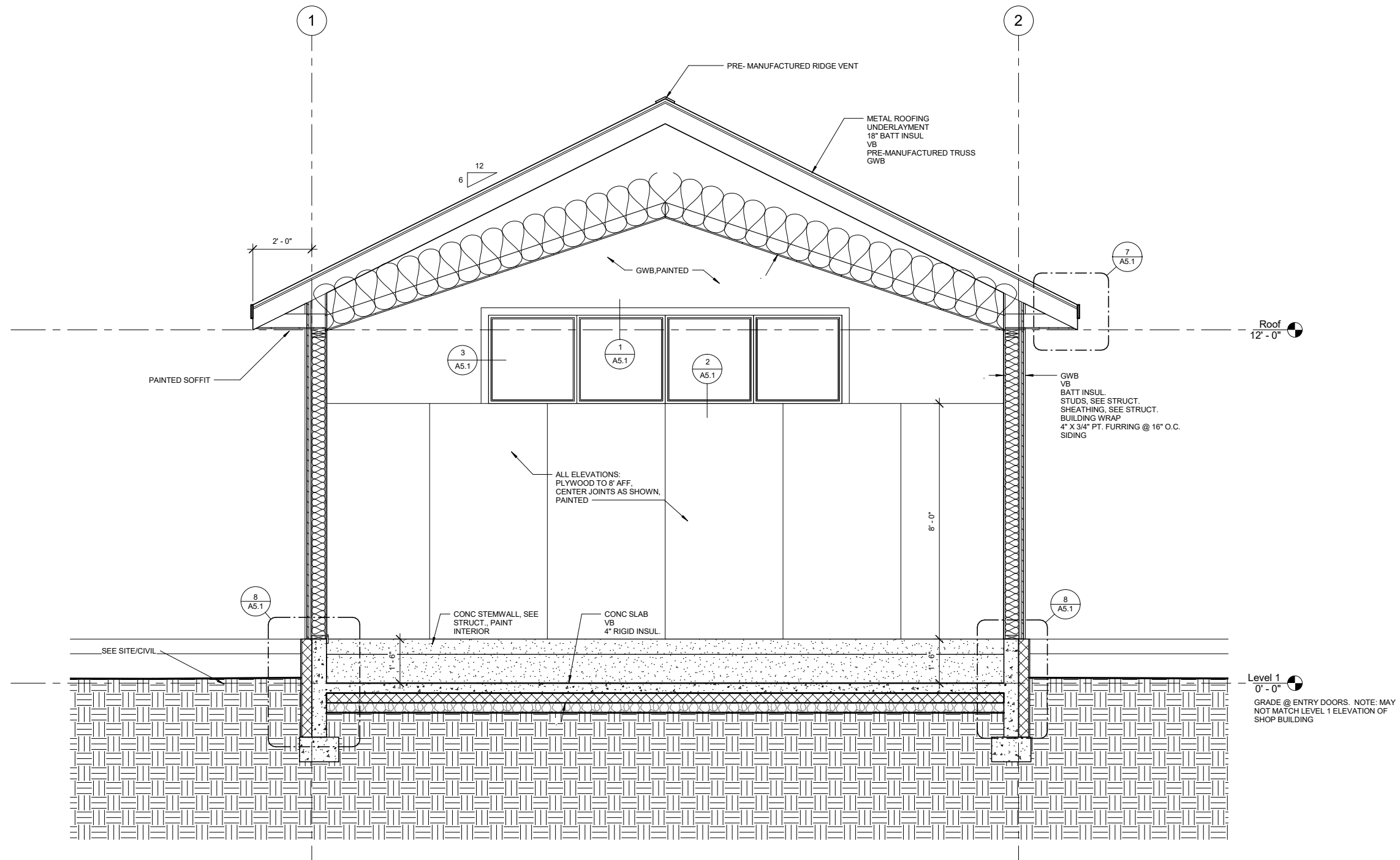
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SHEET TITLE:
Shop Building Section

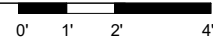
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A4.1



1 Shop Building Section
1/2" = 1'-0"



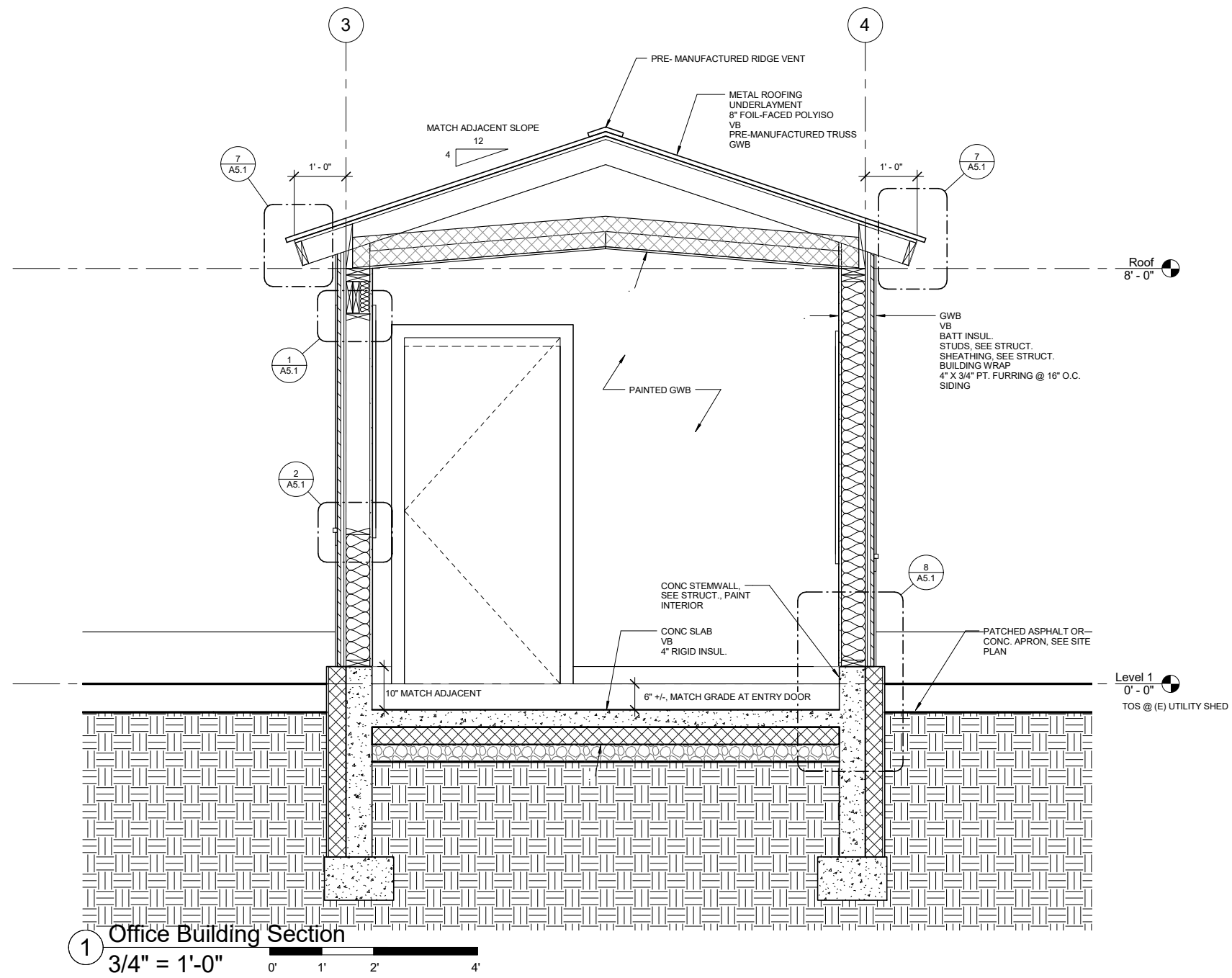
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1 Office Building Section
3/4" = 1'-0"

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No.	Description	Date

SHEET TITLE:
Office Building
Sections

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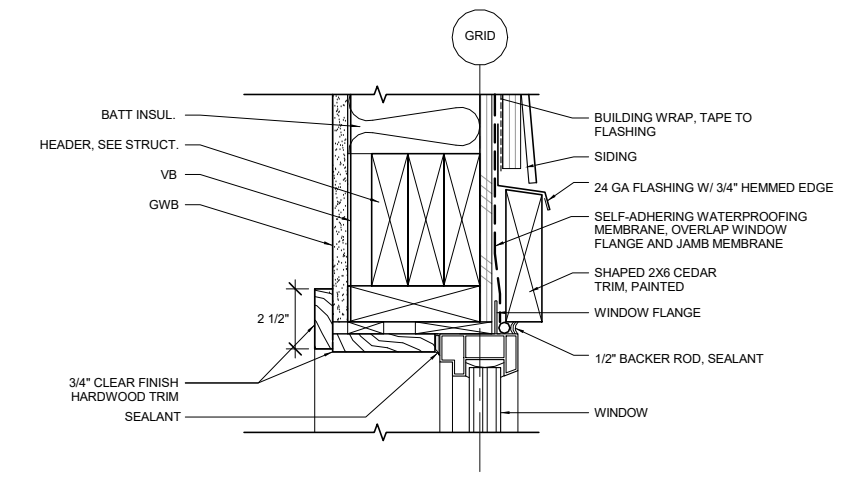
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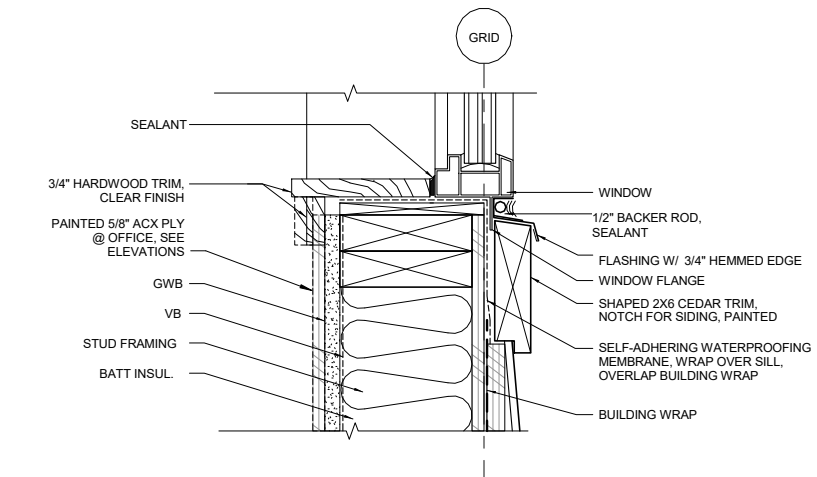
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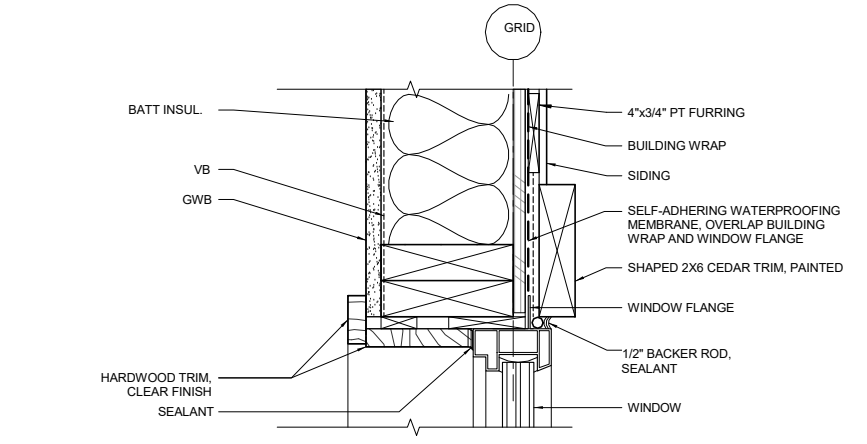
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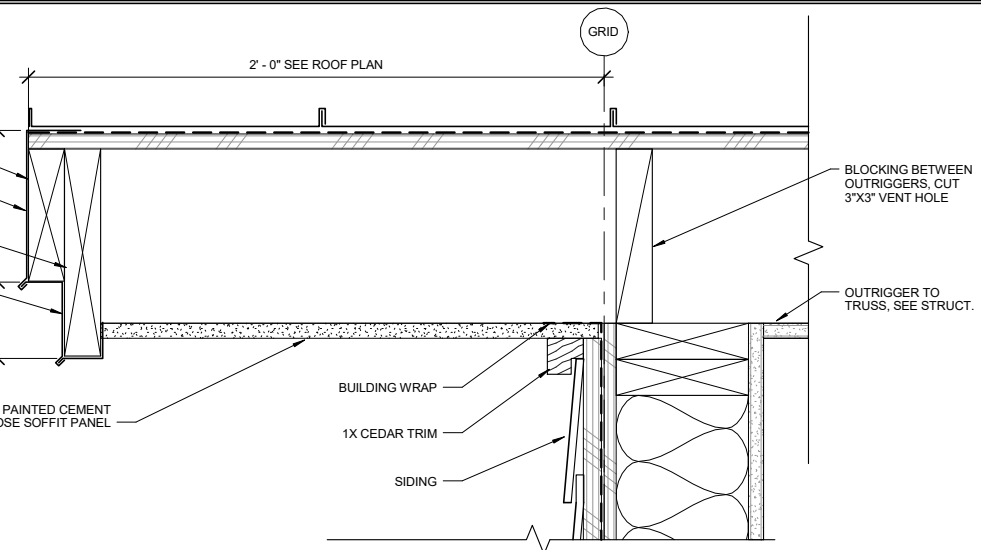
1 WINDOW HEAD
3" = 1'-0"



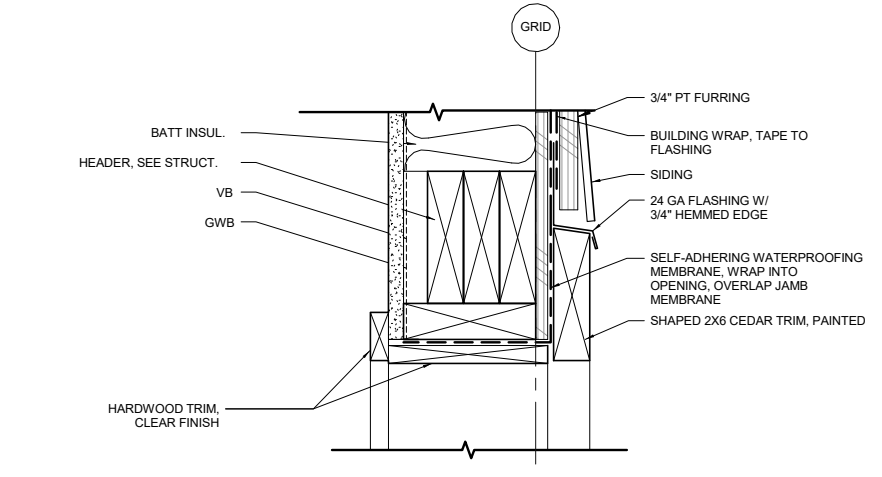
2 WINDOW SILL
3" = 1'-0"



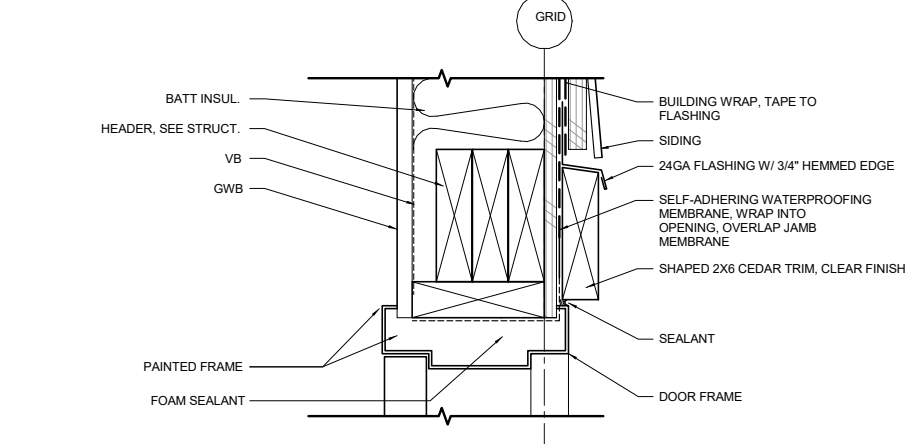
3 WINDOW JAMB
3" = 1'-0"



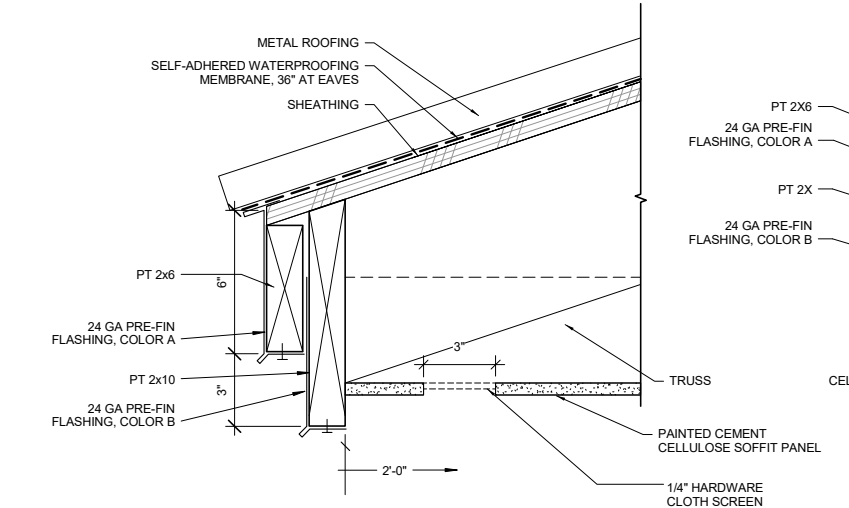
4 RAKE DETAIL
3" = 1'-0"



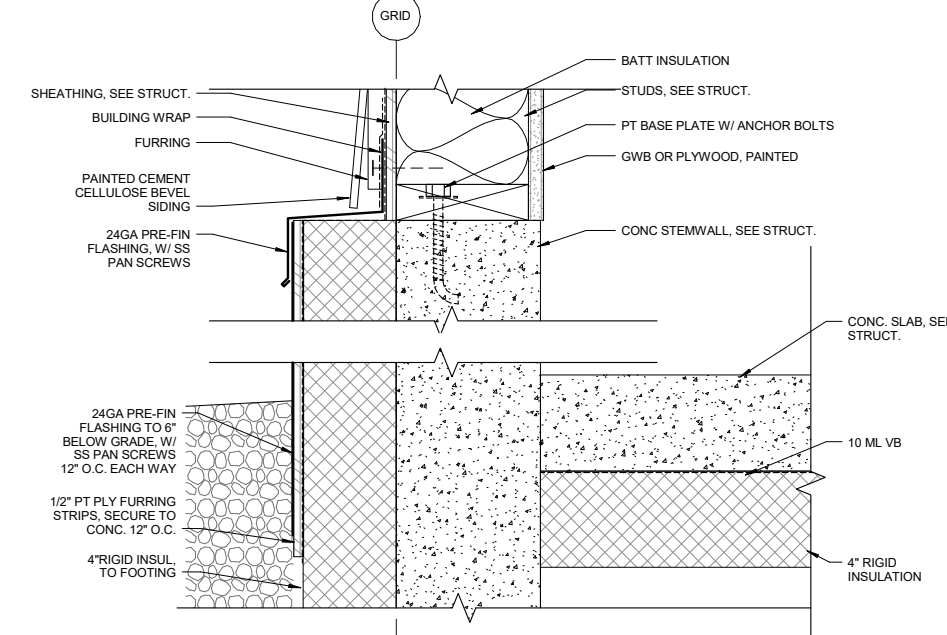
5 GARAGE DOOR HEAD, JAMB SIM
3" = 1'-0"



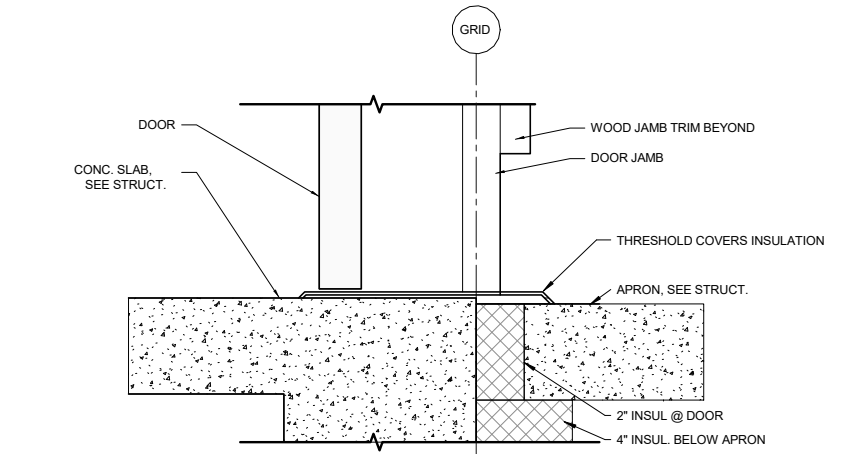
6 DOOR HEAD, JAMB SIM
3" = 1'-0"



7 ROOF EAVE
3" = 1'-0"



8 GRADE DETAIL
3" = 1'-0"



9 DOOR SILL
3" = 1'-0"

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ABBREVIATIONS

AB ANCHOR BOLT
ADDL ADDITIONAL
ALT ALTERNATE
APPROX APPROXIMATE (LY)
ARCH ARCHITECT (URAL)
BD BOARD
BLDG BUILDING
BLKG BLOCKING
BM BEAM
BN BOUNDARY NAIL
BO BOTTOM OF
BOF BOTTOM OF FOOTING
BRG BEARING
BTM BOTTOM
BTWN BETWEEN
CL CENTERLINE
CLR CLEAR
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONSTR CONSTRUCTION
CONT CONTINUOUS
CTR CENTER
d PENNY
DBL DOUBLE
DEPT DEPARTMENT
DIA OR # DIAMETER
DIAPH DIAPHRAGM
DIM DIMENSION
DP DEEP
EA EACH
EF EACH FACE
EL ELEVATION (HEIGHT)
EN EDGE NAIL
ENR ENGINEER
EQ EQUAL
EW EACH WAY
EXIST OR (E) EXISTING
EXT EXTERIOR
FDN FOUNDATION
FF FINISH FLOOR
FN FIELD NAIL
FOC FACE OF CONCRETE
FOS FACE OF STUD
FRMG FRAMING
FT OR ' FOOT (FEET)
FTG FOOTING
GLB GLUED LAMINATED BEAM
GR GRADE
GYP GYPSUM
HD HOLDDOWN
HDR OR H HEADER
HGR HANGER
HORIZ HORIZONTAL
HSS STRUCTURAL TUBE STEEL
HT HEIGHT
IBC INTERNATIONAL BUILDING CODE
JST JOIST
JT JOINT
LB OR # POUND(S)
LDGR LEDGER
LF LINEAR FOOT (FEET)
MAX MAXIMUM
MB MACHINE BOLT
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MTL METAL
NIC NOT IN CONTRACT
NO. OR # NUMBER
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OPNG OPENING
ORIG ORIGINAL
PERP OR L PERPENDICULAR
P PLATE
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED
R RADIUS
REF REFERENCE
REINF REINFORCING
REQD REQUIRED
SCH SCHEDULE
SF SQUARE FEET (FOOT)
SHTG SHEATHING
SIM SIMILAR
SN SHEAR NAIL
SPEC(S) SPECIFICATION(S)
SQ SQUARE
SST SIMPSON STRONG TIE
STD STANDARD
STGR STAGGER
STL STEEL
STRUC STRUCTURAL
T&B TOP AND BOTTOM
TEMP TEMPORARY OR TEMPERATURE
T&G TONGUE AND GROOVE
THK THICKNESS/THICK
THR THREADED
THRU THROUGH
TN TOE NAIL
TOW TOP OF WALL
TYP TYPICAL
U/S UNDER SIDE OF
UON UNLESS OTHERWISE NOTED
V OR VERT VERTICAL
WD WOOD

DESIGN CRITERIA

CODE: INTERNATIONAL BUILDING CODE, 2009 EDITION (IBC 2009)
ROOF SNOW LOAD: 50 PSF
WIND: 105 MPH, (3 SEC. GUST) EXPOSURE D
SEISMIC: SITE CLASS: D
IMPORTANCE FACTOR: 1.0
DESIGN CATEGORY: D
Ss = 0.646g, S1 = 0.397g, Sds = 0.533g, Sd1 = 0.425g

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
2. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND A SOLUTION GIVEN BY, THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS."
4. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
5. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS.
6. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE 2006 EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.
7. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
8. IN AREAS TO BE EXCAVATED, THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF EXISTING UTILITY SERVICES PRIOR TO EXCAVATION.
9. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED TO PROVIDE STABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
10. SUBMITTALS:
A. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE COMPLETE, CHECKED, AND APPROVED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR SUB-CONTRACTORS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE ARE ANY DISCREPANCIES IN THE DIMENSIONS OR DETAILS.
B. SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS:
REINFORCING STEEL
CONCRETE MIX DESIGN
PRE-FABRICATED WOOD TRUSSES
11. SPECIAL INSPECTION:
A. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH IBC SECTION 1704:
SITE PREP. FOR SOIL BEARING
CAST-IN-PLACE CONCRETE
CONCRETE MIX DESIGN
CAST-IN-PLACE ANCHOR BOLTS
PLACEMENT OF REINFORCING STEEL
CONCRETE TESTING; SLUMP, AIR, AND TEST CYLINDERS
EPOXY ANCHORS
B. THE FOLLOWING REQUIREMENTS SHALL BE MET FOR SPECIAL INSPECTION:
(1) THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A CIVIL ENGINEER REGISTERED IN ALASKA.
(2) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE DESIGN ENGINEER, AND THE OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF UNCORRECTED, TO THE DESIGN ENGINEER AND THE BUILDING OFFICIAL.
(3) THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY THE ENGINEER SUPERVISING THE WORK, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
12. FOUNDATION
1. A SOIL BEARING PRESSURE OF 3,000 PSF WAS USED FOR THE FOUNDATION DESIGN BASED ON ASSUMED FREE DRAINING DENSE SANDY GRAVELS EXISTING SOILS PER IBC TABLE 1806.2. IF CONDITIONS ARE FOUND TO BE DIFFERENT, THE ENGINEER SHALL GIVE DIRECTION FOR FOUNDATION IMPROVEMENT.
2. EXISTING SOIL IS ASSUMED TO BE FREE DRAINING AND NON-FROST SUSCEPTIBLE. IF CONDITIONS ARE FOUND TO BE DIFFERENT, THE ENGINEER SHALL GIVE DIRECTION FOR FOUNDATION IMPROVEMENT.
3. ALL SOIL COMPACTION AND SITE PREPARATION WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED ALASKAN CIVIL ENGINEER OR ENGINEERING GEOLOGIST PRACTICING IN THE STATE OF ALASKA.
4. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE TO LINE WITH ALL LOOSE MATERIAL AND STANDING WATER REMOVED BEFORE CONCRETE IS PLACED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO ENSURE THAT THE SPECIFIED COMPACTION DENSITIES ARE ACHIEVED. COMPACTION REPORTS FOR ALL FILL SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO PLACING ANY CONCRETE.
6. ALL SOIL AND FILL DIRT UNDER FOOTINGS OR SLABS SHALL BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DENSITY.
7. ALL LOOSE SOIL AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY.

REINFORCED CONCRETE

- 1. REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING:
A. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 4,000 PSI. CONCRETE TO BE CLASS A CONCRETE FOR GENERAL USE.
B. THE MAXIMUM SLUMP SHALL BE 4 INCHES.
C. SLABS AND OTHER FLATWORK SHALL HAVE A MAXIMUM SLUMP OF 4 INCHES AND A MAXIMUM WATER/CEMENT RATIO OF 0.45.
D. THE MINIMUM CEMENT CONTENT SHALL BE 5-1/2 SACKS PER CUBIC YARD OF CONCRETE.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
4. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
5. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM A494. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
6. READY-MIX CONC. SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
7. SLEEVES, PIPES, OR CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTINGS, GRADE BEAMS, OR TIE BEAMS.
8. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH, UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE CAST IN THE CONCRETE AND FOR EXTENT OF DEPRESSIONS, CURBS, AND RAMPS.
10. ALL VERTICAL SURFACES OF CONCRETE ABOVE FINISHED GRADE SHALL BE FORMED.
11. CONCRETE PLACEMENTS SHALL BE CONTINUOUS BETWEEN CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEYS. THEIR LOCATIONS AND DETAILS, WHEN NOT SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
12. JOINT SEALANT TO BE SILICONE JOINT SEALER TYPE M OR S GRADE P. CONFORM WITH FSS TT-S-001543A, CLASS A.

REINFORCING STEEL

- 1. BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, INCLUDING SUPPLEMENT S1.
2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-05, UNLESS OTHERWISE NOTED.
3. LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE CLASS B IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-05, UNLESS OTHERWISE NOTED.
4. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED ON THE DETAILS.
5. ALL REINFORCING STEEL SHALL BE SECURELY TIED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
7. LAPS OF WELDED WIRE FABRIC AT SPLICES SHALL BE IN CONFORMANCE WITH ACI 318-02, BUT NOT BE LESS THAN 8 INCHES.
8. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
9. SEE THE PLANS FOR THE REQUIRED CONCRETE COVER FOR CAST-IN-PLACE CONCRETE.
10. REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY CRSI.
11. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.

PRE-FABRICATED WOOD TRUSSES

- 1. PRE-FABRICATED WOOD TRUSSES SHALL BE SUPPLIED BY A MEMBER OF THE TRUSS PLATE INSTITUTE. THE CONTRACTOR SHALL SUBMIT TRUSS LAYOUT DRAWINGS, DETAILS, AND CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
2. ALL LATERAL BRACING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL SUBMIT BRACING LAYOUT AND DETAILS, INCLUDING BRIDGING, HANGERS, STIFFENERS, CLIPS, AND OTHER HARDWARE PROVIDED FOR INSTALLATION, TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
3. THE TRUSS SYSTEM SHALL BE DESIGNED FOR THE LOADING CRITERIA SHOWN ON THIS SHEET.
4. SHOP DRAWINGS SHALL INDICATE THAT ADEQUATE BEARING LENGTH IS AVAILABLE FOR BEARING ON BEAMS.
5. PROVIDE MODIFIED BEARING SEAT DETAILS IF REQUIRED.

STRUCTURAL WOOD

- 1. EXCEPT AS NOTED IN NOTE 2 BELOW, SAWN WOOD MEMBERS SHALL BE HEM FIR NO. 2 OR BETTER, UNLESS OTHERWISE NOTED, S4S, AND SHALL BE GRADE MARKED BY A RECOGNIZED GRADING AGENCY APPROVED BY THE INTERNATIONAL CODE CONFERENCE (ICC).
2. EXTERIOR SAWN WOOD MEMBERS SHALL BE TREATED PER THE RECOMMENDATIONS OF WESTERN WOOD PRESERVES INSTITUTE.
3. SHEATHING SHALL BE PLYWOOD OR ORIENTED STRAND BOARD; SHALL BE APA RATED SHEATHING; SHALL BE OF THICKNESS AND GRADE AS NOTED ON THE STRUCTURAL DRAWINGS; AND SHALL BE STAMPED WITH THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
4. FRAMING ANCHORS, STRAPS, JOIST HANGERS, ETC., SHALL BE AS MANUFACTURED BY "SIMPSON COMPANY" OR AN APPROVED EQUAL.
5. BOLTS SHALL CONFORM TO ASTM A307. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563, HEX GRADE A.
6. ALL BOLT HEADS, NUTS, AND LAG SCREWS BEARING ON WOOD SHALL HAVE CUT WASHERS, UNLESS OTHERWISE NOTED.
7. BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER.
8. NAILING OF SAWN WOOD MEMBERS SHALL BE WITH COMMON NAILS, UNLESS OTHERWISE NOTED. WHERE NOT SHOWN ON THE DRAWINGS, NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC.
9. DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO TABLE 2306.2.1 AND 2306.3 OF THE IBC (COMMON NAILS) WITH NOMENCLATURE DEFINED AS FOLLOWS:
BN = NAILING AT DIAPHRAGM BOUNDARIES AND AT EDGES OF OPENINGS.
EN = EDGE NAILING.
FN = FIELD NAILING.
10. IN HORIZONTAL DIAPHRAGMS OR VERTICAL SHEAR WALLS, NO PANEL LESS THAN 24" WIDE SHALL BE USED UNLESS ALL EDGES ARE SUPPORTED ON FRAMING OR BLOCKING.
11. WOOD MEMBERS SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
12. ALL NAILS LARGER THAN 16d AND ALL NAILING TENDING TO CAUSE SPLITTING OF WOOD MEMBERS, SHALL BE INSTALLED IN PRE-DRILLED HOLES.
13. CUTTING, NOTCHING, OR DRILLING OF BEAMS/JOISTS/POSTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
14. ALL WOOD RESTING ON CONCRETE OR NOTED AS TREATED ON THE PLANS SHALL BE PRESSURE TREATED IN CONFORMANCE WITH WESTERN WOOD PRESERVER'S INSTITUTE. SURFACES THAT ARE DAMAGED OR EXPOSED BY CUTTING, DRILLING, OR NOTCHING SHALL BE TREATED WITH A PRESERVATIVE PER WESTERN WOOD PRESERVER'S INSTITUTE.
15. PROVIDE BLOCKING OR BRIDGING PER SECTIONS 2308.8, 2309.9, 2308.10.6 OF THE IBC.
16. MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19 PERCENT.



11/4/16



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CONSTRUCTION DRAWINGS

AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES

for CBJ Docks and Harbors Dept.

Contract No: DHT17-008

MRV 1519

Table with 3 columns: No., Description, Date.

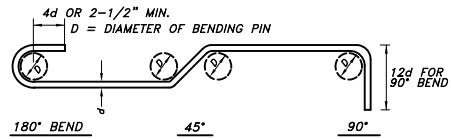
SHEET TITLE: GENERAL NOTES

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.

S1.1

NOTE: 11"x 17" PRINT IS HALF SIZE

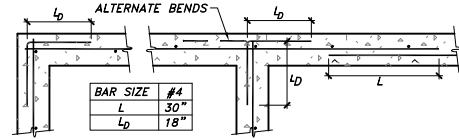


BAR SIZE	MIN. PIN DIA.
#3 THRU #8	6 BAR DIA.

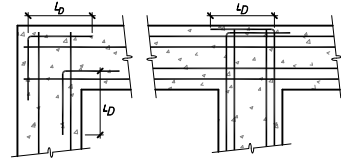
LEGEND (FOR REINF. BENDS NOT SHOWN TO SCALE)

- DENOTES 90° BEND IN THE PLANE OF THE DWG.
- DENOTES 90° BEND PERPENDICULAR TO THE PLANE OF THE DWG.
- DENOTES BEND PERPENDICULAR TO THE PLANE OF THE DWG.
- DENOTES BEND IN THE PLANE OF THE DWG.
- DENOTES OFFSET IN THE PLANE OF THE DWG.

1 STANDARD HOOKS & BENDS
NTS

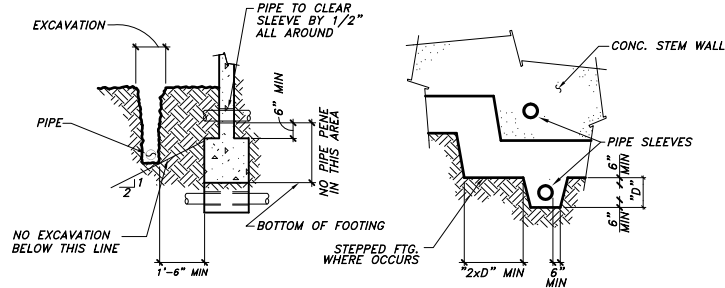


SINGLE CURTAIN @ STEM WALLS



DOUBLE CURTAIN @ FTGS

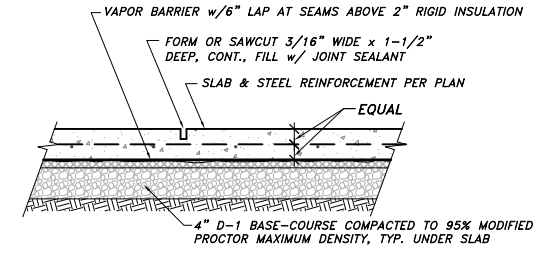
2 WALL & FTG REINF @ CORNERS & INTERSECTIONS
NTS



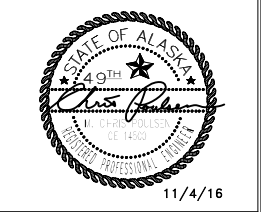
FOOTING SECTION

FOOTING ELEVATION

3 PIPES & TRENCHES @ FOUNDATIONS
NTS



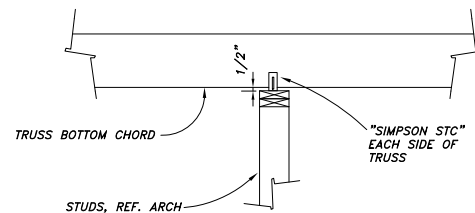
4 CRACK CONTROL JOINT
NTS



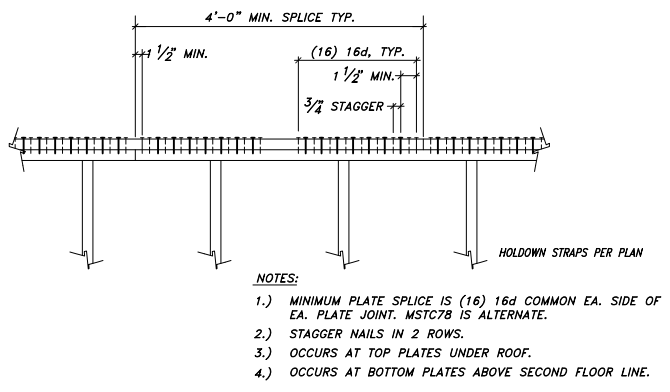
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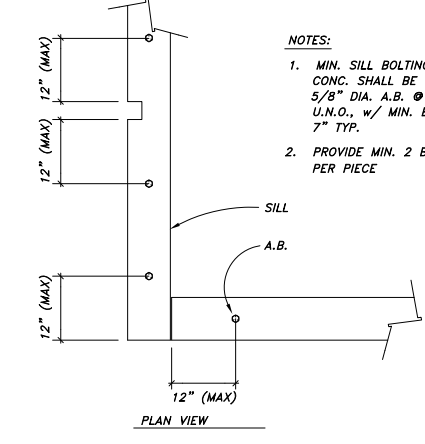
CONSTRUCTION DRAWINGS
AUKE BAY LOADING FACILITY BOAT YARD
STRUCTURES
for
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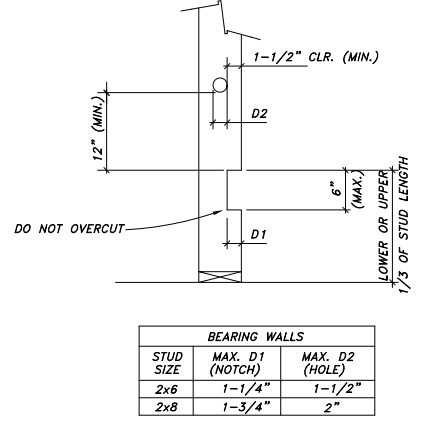
5 NON-BEARING WALL PERP. TO TRUSSES
NTS



6 NAILED SPLICE
NTS

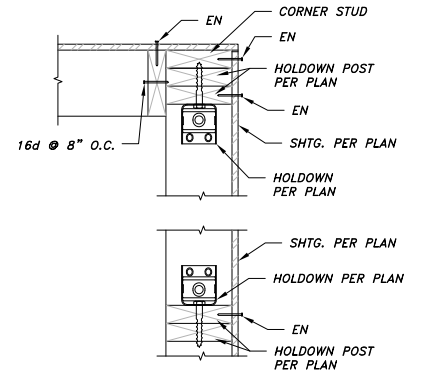


7 SILL PLATE BOLTING TO CONCRETE
NTS

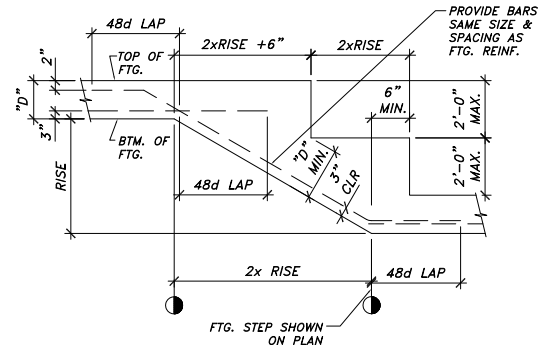


8 ALLOWABLE HOLES & NOTCHES IN WOOD STUDS
NTS

BEARING WALLS		
STUD SIZE	MAX. D1 (NOTCH)	MAX. D2 (HOLE)
2x6	1-1/4"	1-1/2"
2x8	1-3/4"	2"



9 TYP. HD CORNER FRAMING
NTS



10 TYPICAL FOUNDATION STEP
NTS

NOTE: 11"x 17" PRINT IS HALF SIZE

No.	Description	Date

SHEET TITLE:
STANDARD DETAILS

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.

S1.2

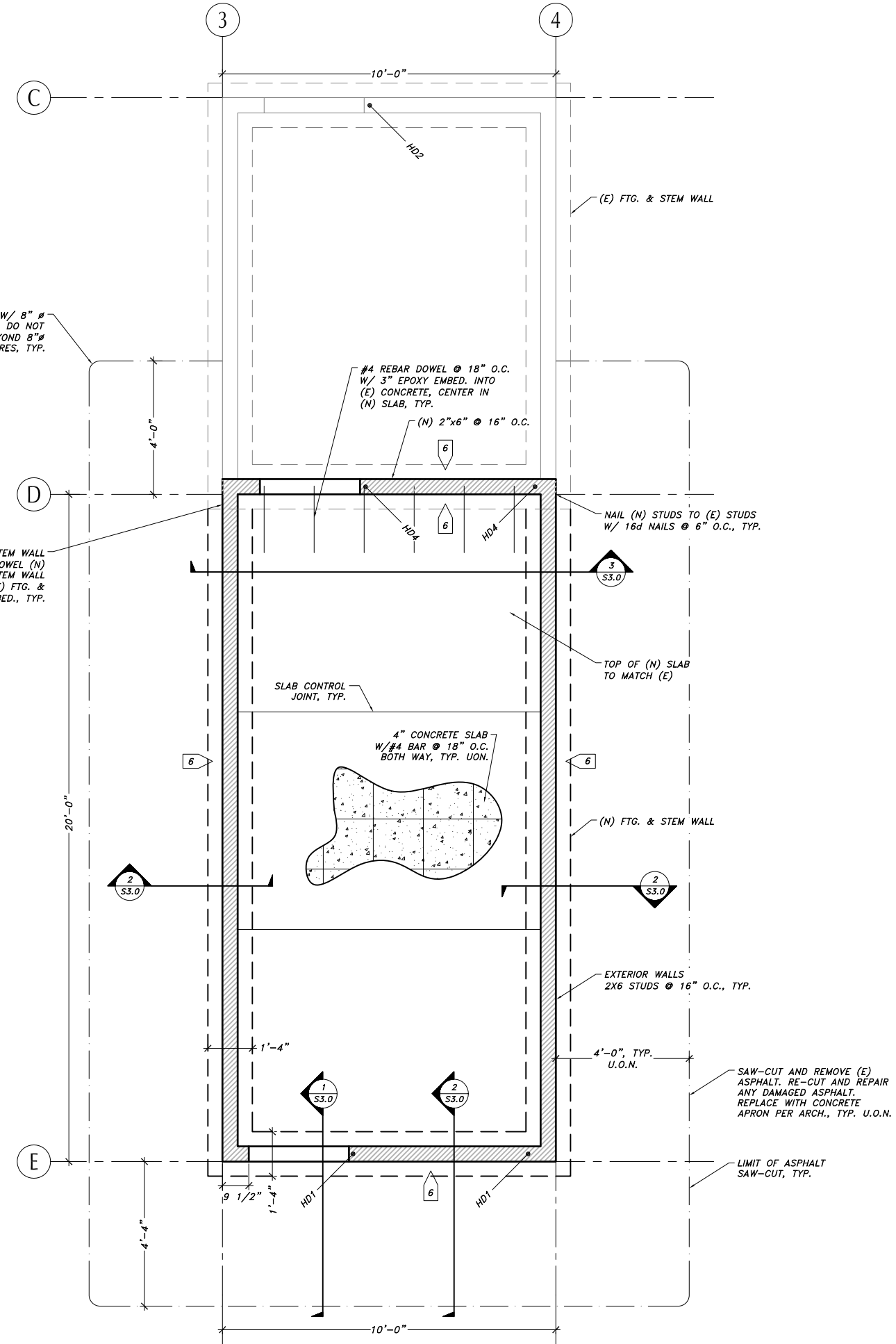
\\PDC-JNU-FILE\Juneau\2016\16139JN\Drawings\16139JN, Structural Plans.dwg PLOT: November 04, 2016 at: 4:20pm

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Contract No: DHT17-008
MRV 1519



OFFICE BUILDING FOUNDATION PLAN

SCALE: 0.5' 1' 2'



PLAN NOTES

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, STAIR DETAILS, GUARDRAILS, ETC. W/ ARCHITECTURAL DRAWINGS. WINDOW/DOOR OPENINGS ARE LOCATE WHERE SHOWN BY THE ARCHITECT.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE S1.2 FOR STANDARD DETAILS.

SHEAR WALL SCHEDULE

MARK	EDGE NAILING (4)	BOTTOM WALL PLATE	BLOCKING (2)
6	8d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 36" O.C. W/ 7" EMBED	2X
6	8d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C. W/ 7" EMBED, SEE NOTE 6	2X

SHEAR WALL NOTES:

1. SHEATHING SHALL BE 15/32" APA RATED WITH A SPAN INDEX OF 32/16, UON.
2. ALL PANEL EDGES SHALL BE BLOCKED WITH FULL DEPTH BLOCKING.
3. END STUDS AND HOLDDOWNS PER DETAIL 5/S3.0.
4. ALL SHEATHING NAILS ARE TO BE COMMON.
5. 12" FIELD NAILING UON.
6. USE 1/2" A.B. @ 24" O.C. W/ 5" EPOXY EMBED. @ EXISTING CONCRETE.

'X' SHEAR WALL MARK (NAIL SPACING)
- DENOTES SHEAR WALL

HOLD DOWN SCHEDULE

TAG	SIMPSON HOLDDOWN	ANCHOR BOLT	END STUD
HD1	HDU2	5/8" W/ 7" EMBED.	(2) 2X6
HD2	HDU2	1/2" W/ 5" EPOXY EMBED.	(2) 2X6
HD3	HHQ11-SDS2.5	1" W/ 6" EMBED. *	(4) 2X6
HD4	MSTCM40	PER SIMPSON STRONG TIE **	(2) 2X6

HOLD DOWN NOTE:

- * HD3 AB EMBED DEPTH MEASURED FROM TOP OF FTG.
- ** USE TITEN SCREWS INTO CONCRETE PER SIMPSON STRONG TIE.

No.	Description	Date

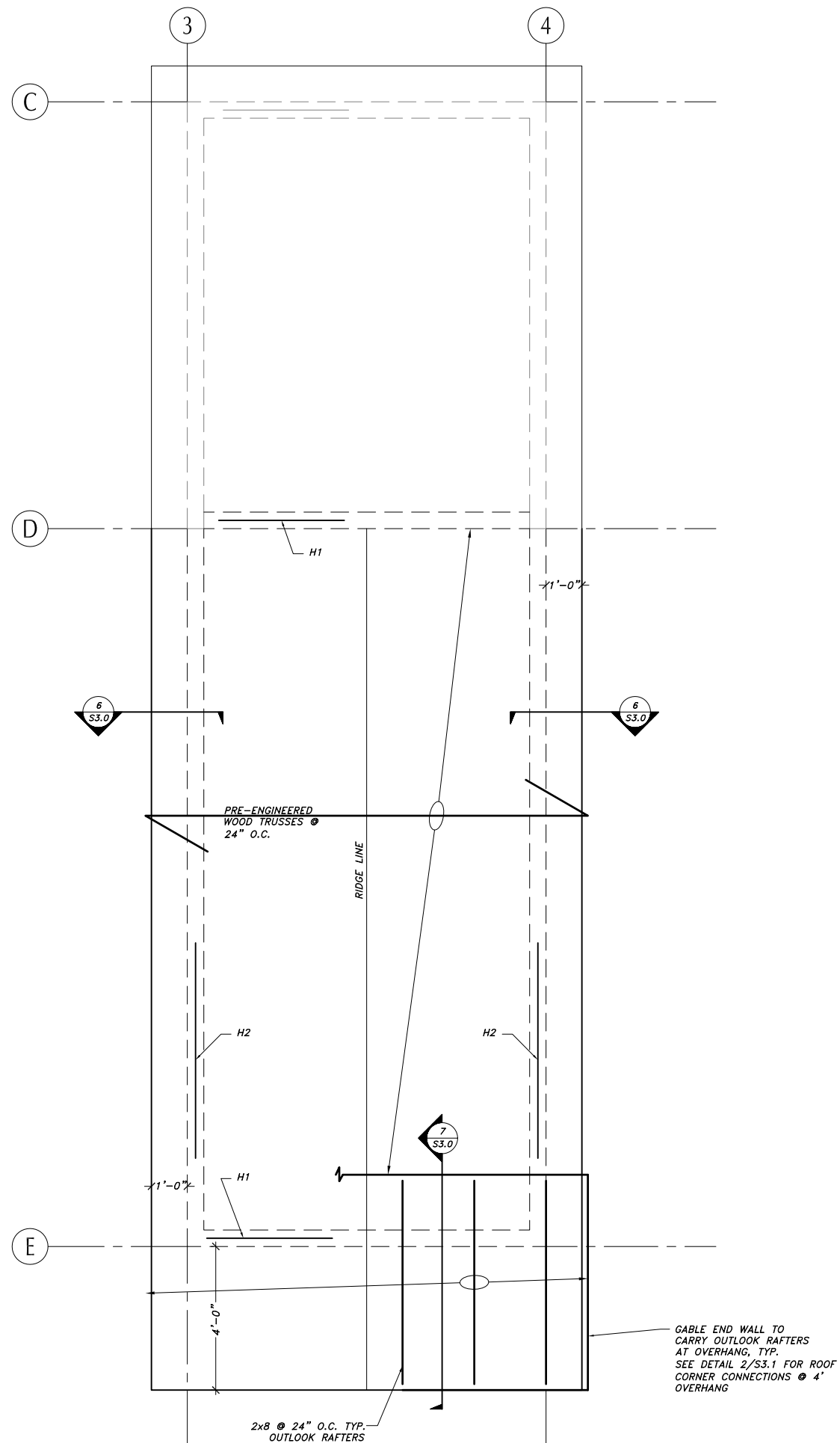
SHEET TITLE:
OFFICE BUILDING FOUNDATION PLAN

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.
S2.0

NOTE: 11"x 17" PRINT IS HALF SIZE

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OFFICE BUILDING ROOF PLAN

SCALE: 0 0.5' 1' 2'



PLAN NOTES

1. VERIFY ALL DIMENSIONS, OVERHANGS, ETC., WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE S1.2 FOR STANDARD DETAILS.

ROOF SHEATHING

19/32" APA CCX RATED SHEATHING W/ PANEL INDEX 40/20 EXTERIOR GLUE, NAIL W/ 8d @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @12" O.C. IN FIELD.

HEADER SCHEDULE

TAG	SPAN	SIZE	STUDS
H1	3'-0"	(2) 2x8	(1) JACK, (2) KING
H2	6'-0"	(2) 2x8	(1) JACK, (2) KING
H3 (1)	12'-0"	(3) 2x12	(1) JACK, (4) KING

HEADER NOTE:

1. NAIL HEADER TO KING STUDS PER DETAIL 6/S3.1. ATTACH KING STUDS W/ (2) SIMPSON SL50 ANGLES TO TOP PLATE, (1) ON EACH SIDE.

TRUSS NOTES

1. DESIGN FOR AN EAVE OVERHANG UPLIFT WIND LOAD OF 55 PSF TYP., AND 91 PSF FROM CORNER OF OVERHANG TO FACE OF BUILDING AND WITHIN 3 FT OF OVERHANG CORNER MIN.



11/4/16



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CONSTRUCTION DRAWINGS
**AUKE BAY LOADING FACILITY BOAT YARD
STRUCTURES**
for
CBI Docks and Harbors Dept.

MRV 1519

Contract No: DH17-008

No.	Description	Date

SHEET TITLE:
**OFFICE BUILDING
ROOF PLAN**

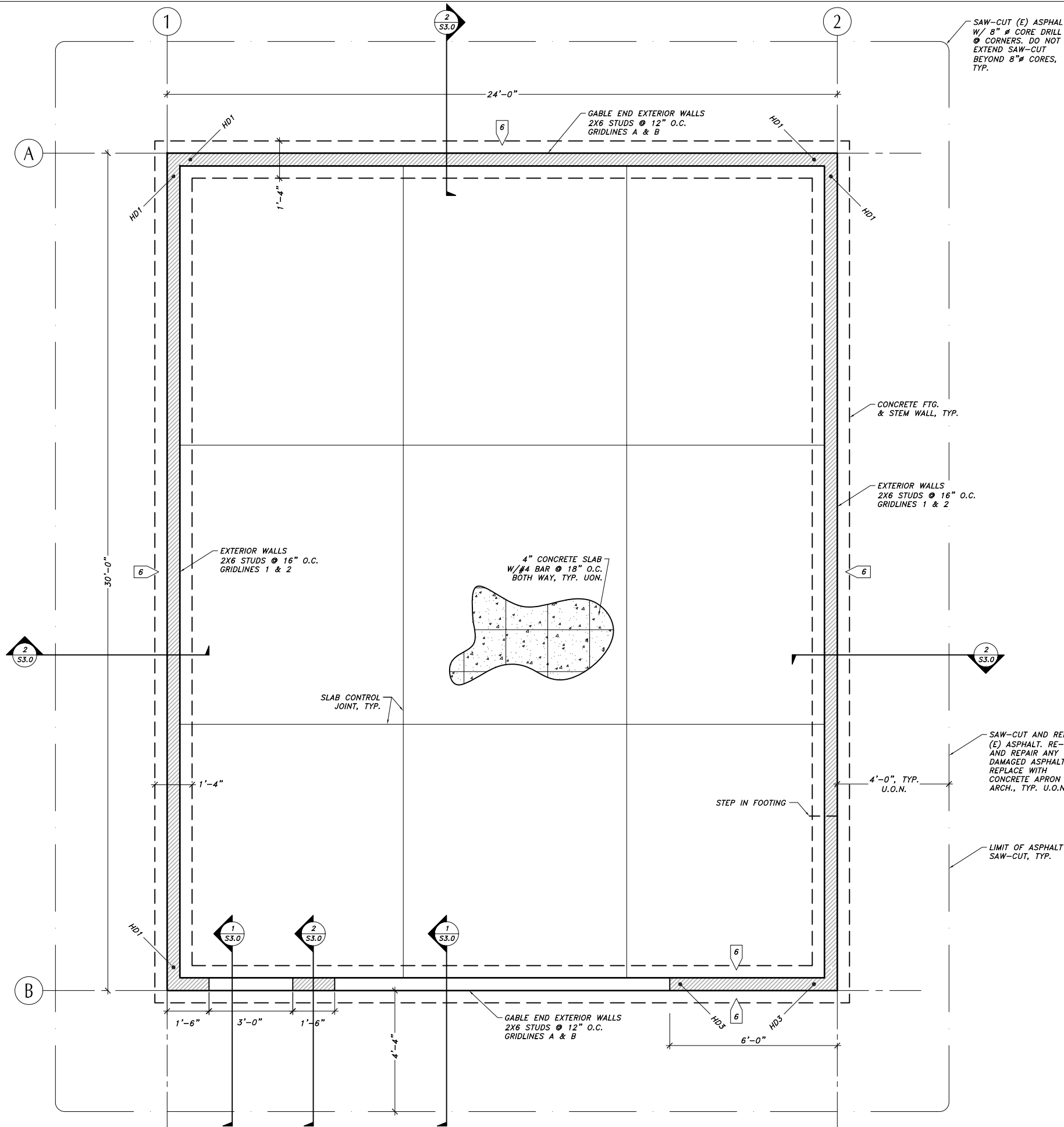
DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.

S2.1

NOTE: 11"x 17" PRINT IS HALF SIZE

\\PDC-JNU-FILE\Juneau\2016\16139JN\Drawings\16139JN_Structural Plans.dwg PLOT: November 04, 2016 at: 4:20pm



SHOP BUILDING FOUNDATION PLAN

SCALE: 0 0.5' 1' 2'

SAW-CUT (E) ASPHALT W/ 8" # CORE DRILL @ CORNERS. DO NOT EXTEND SAW-CUT BEYOND 8" # CORES, TYP.

GABLE END EXTERIOR WALLS 2X6 STUDS @ 12" O.C. GRIDLINES A & B

CONCRETE FTG. & STEM WALL, TYP.

EXTERIOR WALLS 2X6 STUDS @ 16" O.C. GRIDLINES 1 & 2

4" CONCRETE SLAB W/#4 BAR @ 18" O.C. BOTH WAY, TYP. UON.

SLAB CONTROL JOINT, TYP.

SAW-CUT AND REMOVE (E) ASPHALT. RE-CUT AND REPAIR ANY DAMAGED ASPHALT. REPLACE WITH CONCRETE APRON PER ARCH., TYP. U.O.N.

LIMIT OF ASPHALT SAW-CUT, TYP.

STEP IN FOOTING

4'-0", TYP. U.O.N.

GABLE END EXTERIOR WALLS 2X6 STUDS @ 12" O.C. GRIDLINES A & B

PLAN NOTES

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, STAIR DETAILS, GUARDRAILS, ETC. W/ ARCHITECTURAL DRAWINGS. WINDOW/DOOR OPENINGS ARE LOCATE WHERE SHOWN BY THE ARCHITECT.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE S1.2 FOR STANDARD DETAILS.

SHEAR WALL SCHEDULE

MARK	EDGE NAILING (4)	BOTTOM WALL PLATE	BLOCKING (2)
6	8d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 36" O.C. W/ 7" EMBED	2X
6	8d's @ 6" OC	2X W/ 5/8" ANCHOR BOLT @ 24" O.C. W/ 7" EMBED, SEE NOTE 6.	2X

SHEAR WALL NOTES:

1. SHEATHING SHALL BE 15/32" APA RATED WITH A SPAN INDEX OF 32/16, UON.
2. ALL PANEL EDGES SHALL BE BLOCKED WITH FULL DEPTH BLOCKING.
3. END STUDS AND HOLDDOWNS PER DETAIL 5/S3.0.
4. ALL SHEATHING NAILS ARE TO BE COMMON.
5. 12" FIELD NAILING UON.
6. USE 1/2" # A.B. @ 24" O.C. W/ 5" EPOXY EMBED. @ EXISTING CONCRETE.

'X'

SHEAR WALL MARK (NAIL SPACING)

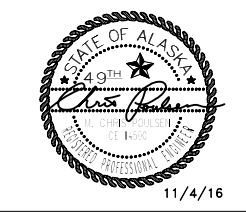
- DENOTES SHEAR WALL

HOLD DOWN SCHEDULE

TAG	SIMPSON HOLDDOWN	ANCHOR BOLT	END STUD
HD1	HDU2	5/8" # W/ 7" EMBED.	(2) 2X6
HD2	HDU2	1/2" # W/ 5" EPOXY EMBED.	(2) 2X6
HD3	HHHQ11-SDS2.5	1" # W/ 6" EMBED. *	(4) 2X6
HD4	MSTCM40	PER SIMPSON STRONG TIE **	(2) 2X6

HOLD DOWN NOTE:

- * HD3 AB EMBED DEPTH MEASURED FROM TOP OF FTG.
- ** USE TITEN SCREWS INTO CONCRETE PER SIMPSON STRONG TIE.



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CONSTRUCTION DRAWINGS
MRY 1519

AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES

for
CBJ Docks and Harbors Dept.

Contract No: DHT17-008

No.	Description	Date

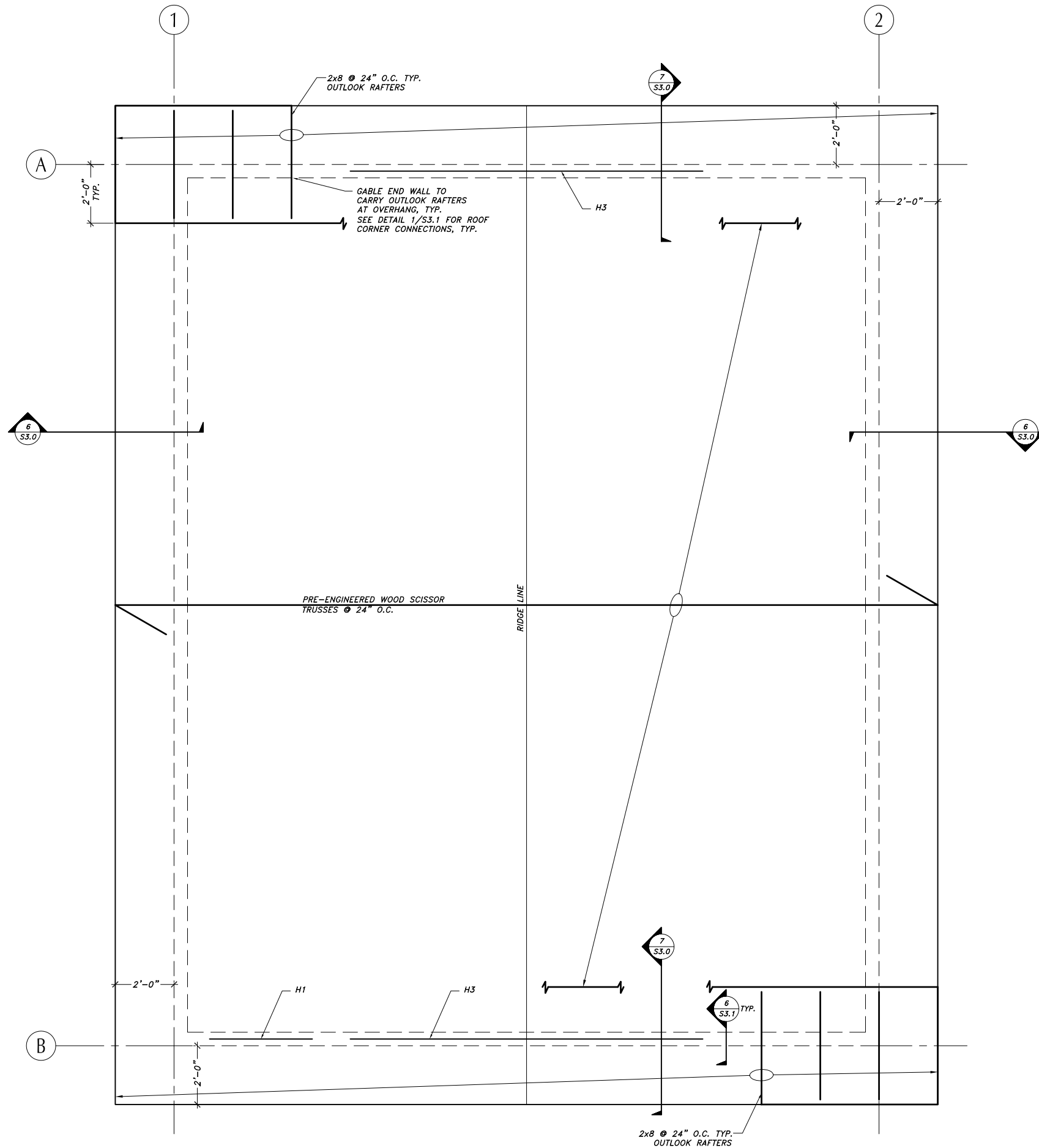
SHEET TITLE:
SHOP BUILDING FOUNDATION PLAN

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.
S2.2

NOTE: 11"x 17" PRINT IS HALF SIZE

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SHOP BUILDING ROOF PLAN

SCALE: 0 0.5' 1' 2'



PLAN NOTES

1. VERIFY ALL DIMENSIONS, OVERHANGS, ETC., WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR DUCTS, CHASES, PIPES, ETC.
3. REFERENCE S1.1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REFERENCE S1.2 FOR STANDARD DETAILS.

ROOF SHEATHING

19/32" APA CCX RATED SHEATHING W/ PANEL INDEX 40/20 EXTERIOR GLUE, NAIL W/ 8d @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @ 12" O.C. IN FIELD.

HEADER SCHEDULE

TAG	SPAN	SIZE	STUDS
H1	3'-0"	(2) 2x8	(1) JACK, (2) KING
H2	6'-0"	(2) 2x8	(1) JACK, (2) KING
H3 (1)	12'-0"	(3) 2x12	(1) JACK, (4) KING

HEADER NOTE:

1. NAIL HEADER TO KING STUDS PER DETAIL 6/S3.1. ATTACH KING STUDS W/ (2) SIMPSON SL50 ANGLES TO TOP PLATE, (1) ON EACH SIDE.

TRUSS NOTES

1. DESIGN FOR AN EAVE OVERHANG UPLIFT WIND LOAD OF 55 PSF TYP., AND 91 PSF FROM CORNER OF OVERHANG TO FACE OF BUILDING AND WITHIN 3 FT OF OVERHANG CORNER MIN..



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ROOF PLAN**

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S2.3

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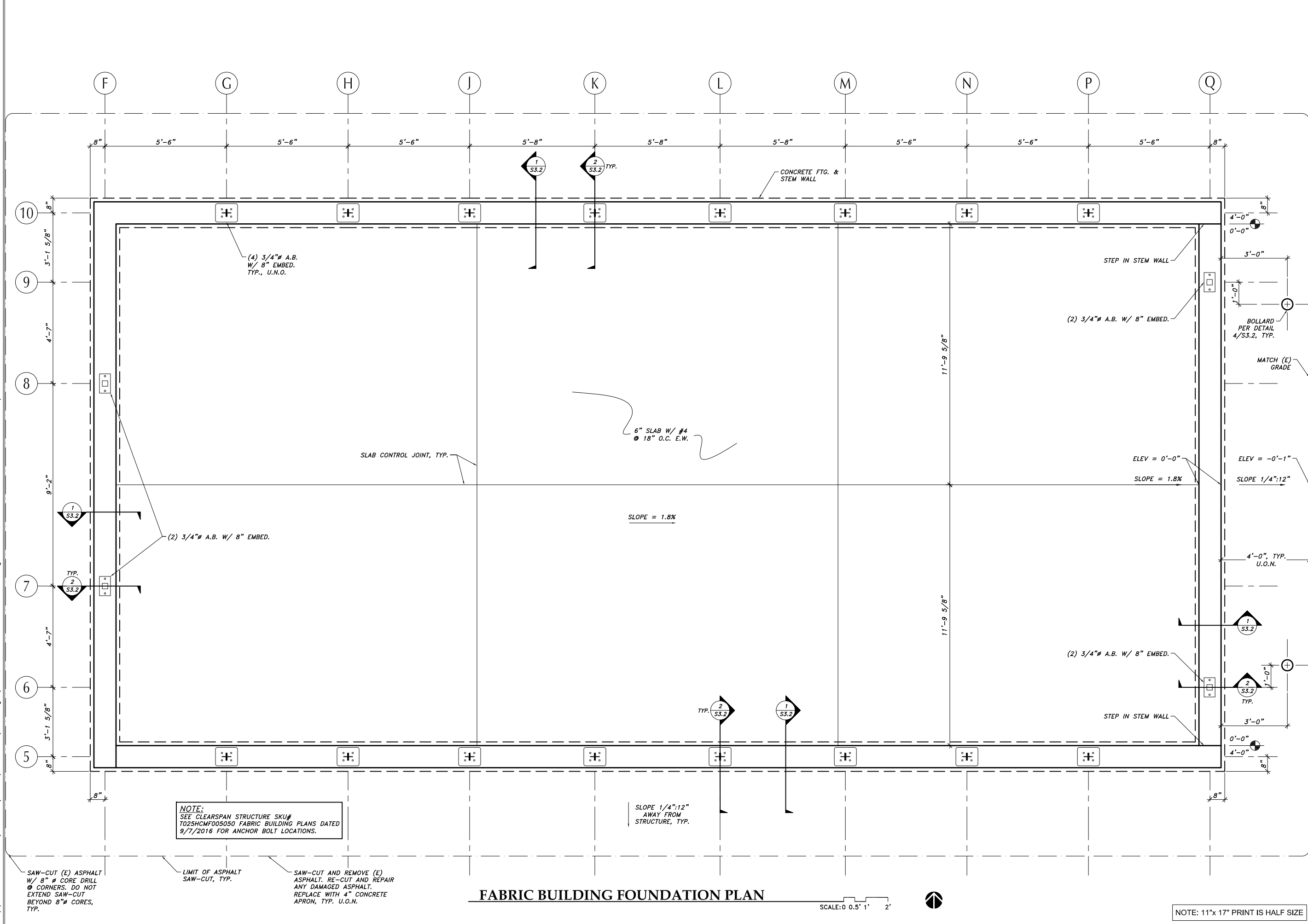
Contract No: DHT17-008

No.	Description	Date

SHEET TITLE:
FABRIC BUILDING
FOUNDATION PLAN

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.
S2.4



NOTE:
SEE CLEARSPAN STRUCTURE SKU#
T025HCF005050 FABRIC BUILDING PLANS DATED
9/7/2016 FOR ANCHOR BOLT LOCATIONS.

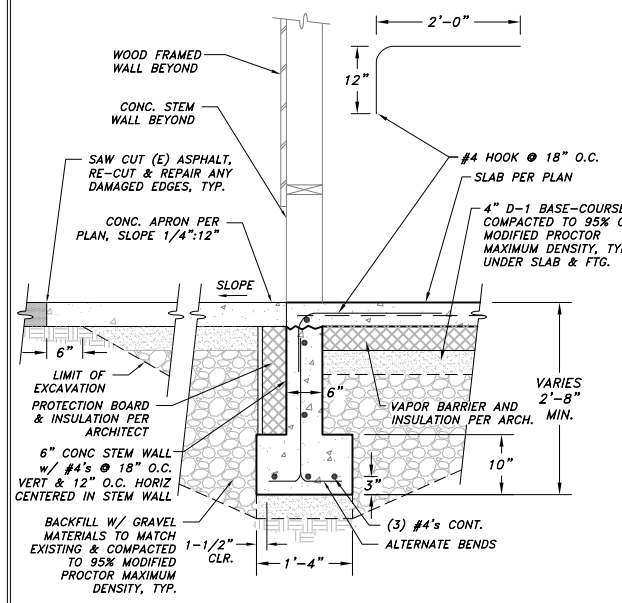
SAW-CUT (E) ASPHALT W/ 8" # CORE DRILL @ CORNERS, DO NOT EXTEND SAW-CUT BEYOND 8" CORES, TYP.
LIMIT OF ASPHALT SAW-CUT, TYP.
SAW-CUT AND REMOVE (E) ASPHALT, RE-CUT AND REPAIR ANY DAMAGED ASPHALT. REPLACE WITH 4" CONCRETE APRON, TYP. U.O.N.

FABRIC BUILDING FOUNDATION PLAN
SCALE: 0 0.5' 1' 2'

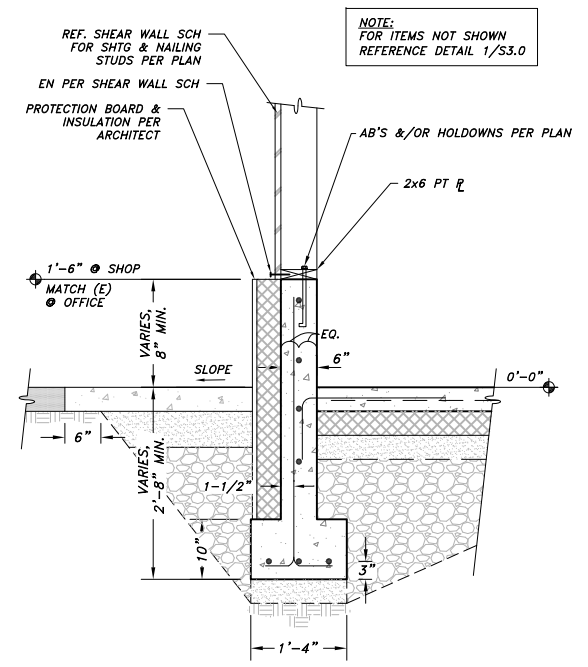
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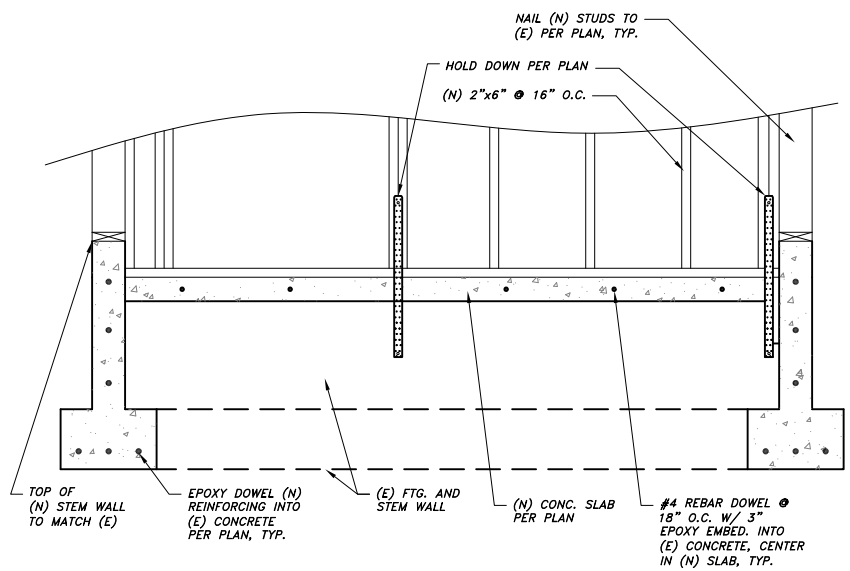
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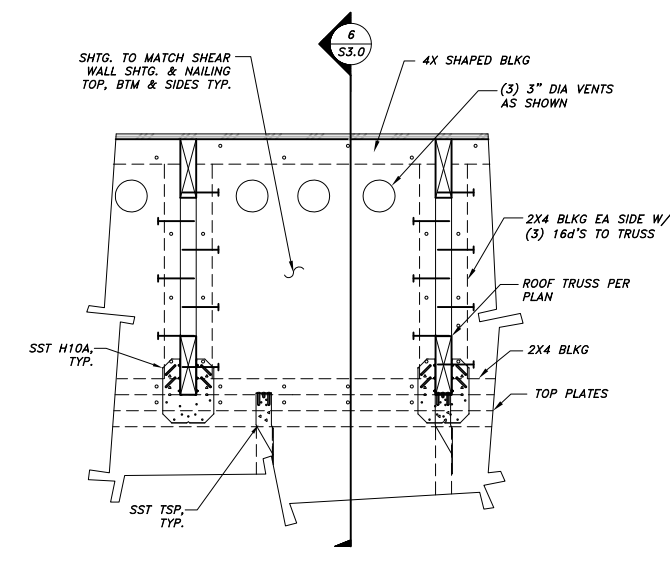
1 **TYPICAL EXTERIOR FOOTING AT DOOR OPENINGS**
3/4"=1'-0"



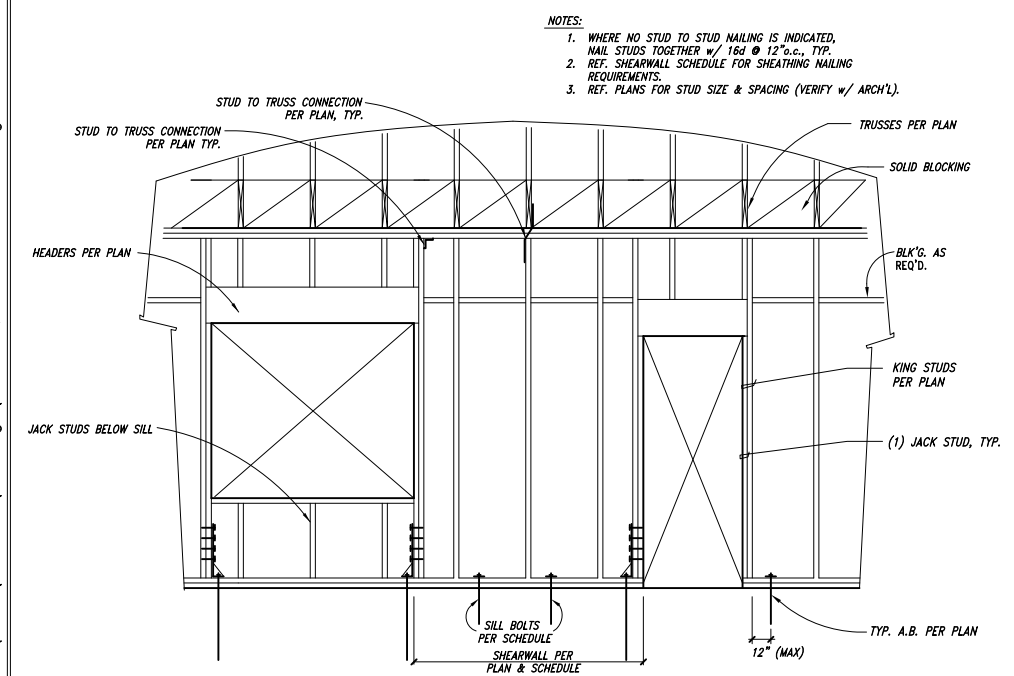
2 **TYPICAL EXTERIOR FOOTING**
3/4"=1'-0"



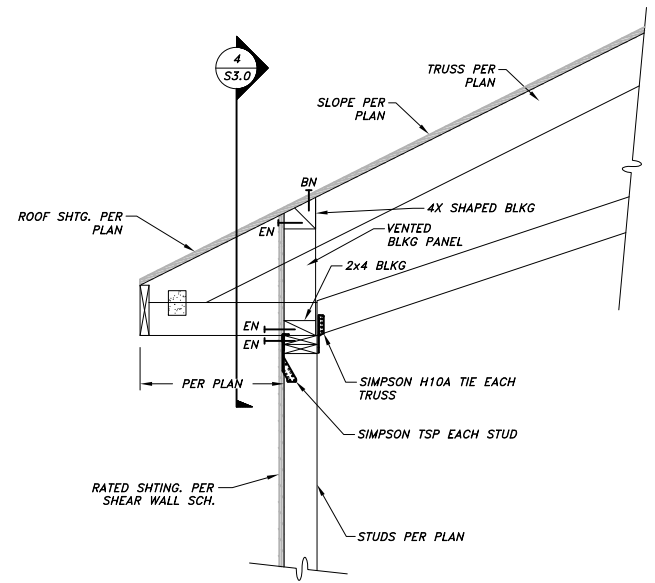
3 **CONNECTION TO EXISTING FOUNDATION**
3/4"=1'-0"



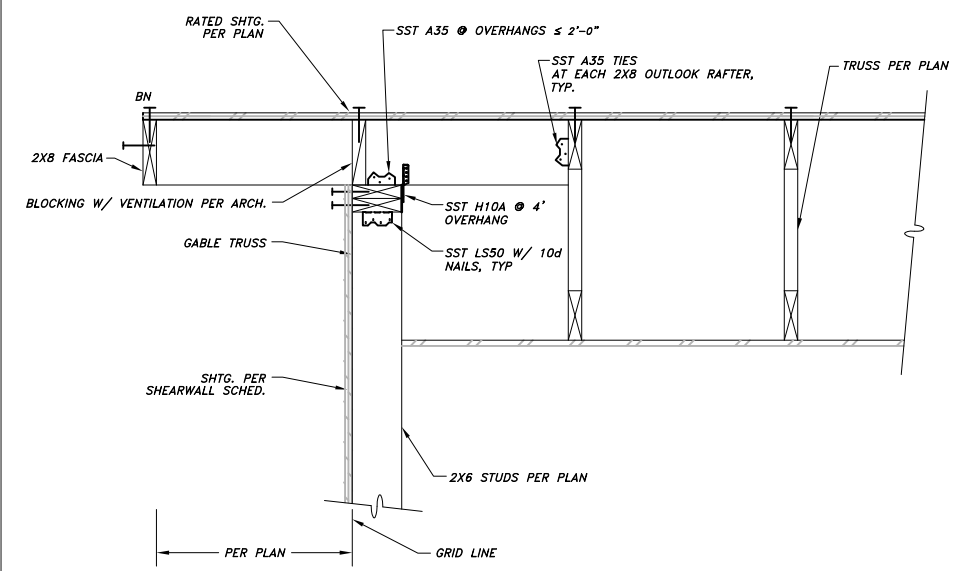
4 **TYPICAL ROOF BLOCKING PANEL**
NTS



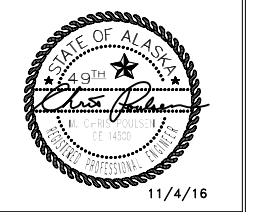
5 **TYPICAL SHEAR WALL STUD FRAMING**
NTS



6 **ROOF TRUSS TO WALL CONNECTION**
3/4"=1'-0"



7 **GABLE END DETAIL**
3/4"=1'-0"



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CONSTRUCTION DRAWINGS
AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES
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No.	Description	Date

SHEET TITLE:
FOUNDATION AND FRAMING DETAILS

DATE: 11/4/2016
SCALE:
DRAWN: JAG
CHECKED: MCP

SHEET NO.

S3.0

NOTE: 11"x 17" PRINT IS HALF SIZE

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MRV 1519

Contract No: DHT17-008

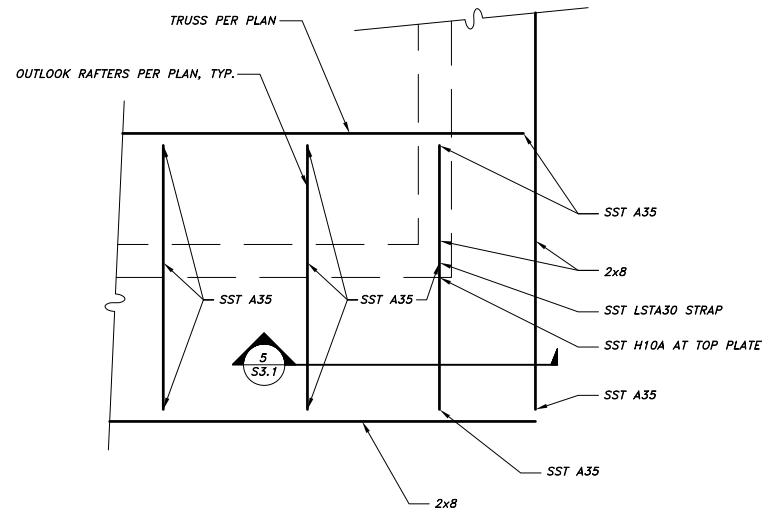
No.	Description	Date

SHEET TITLE:
FRAMING DETAILS

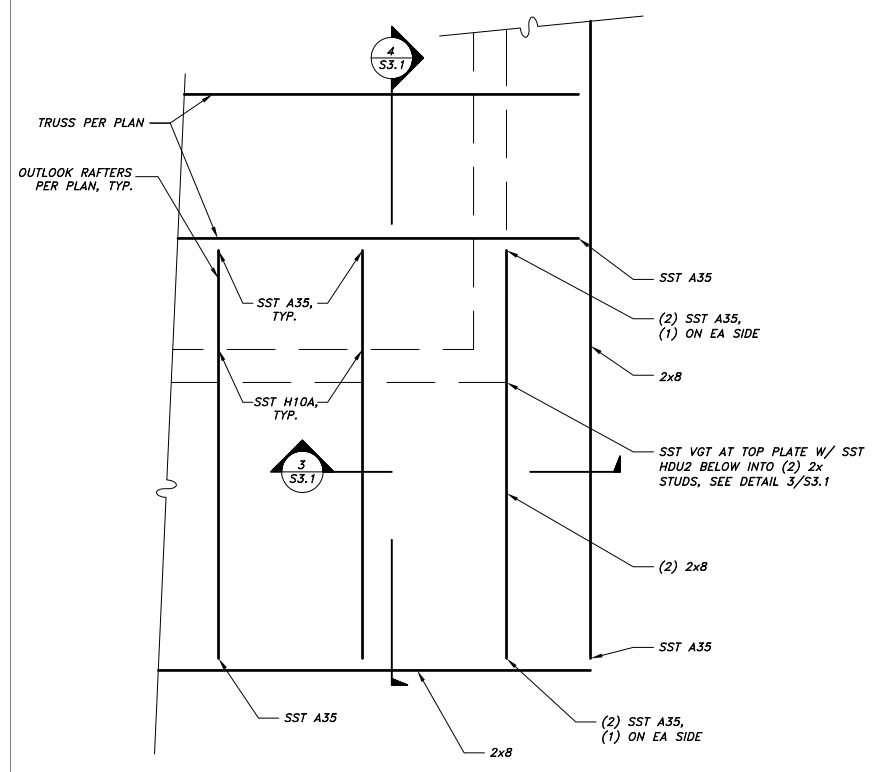
DATE: 11/4/2016
SCALE:
DRAWN: JAG
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SHEET NO.

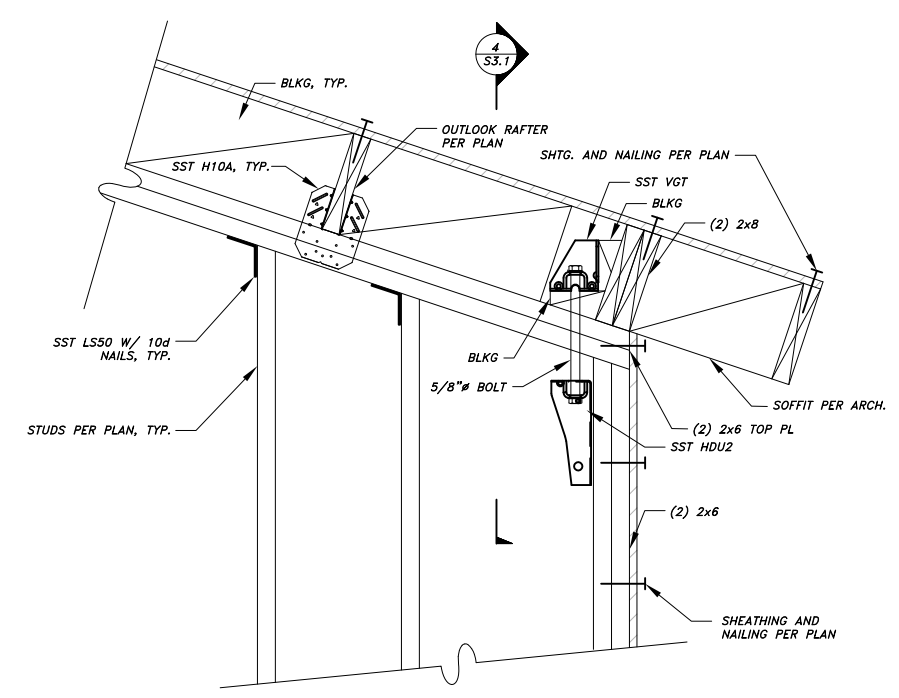
S3.1



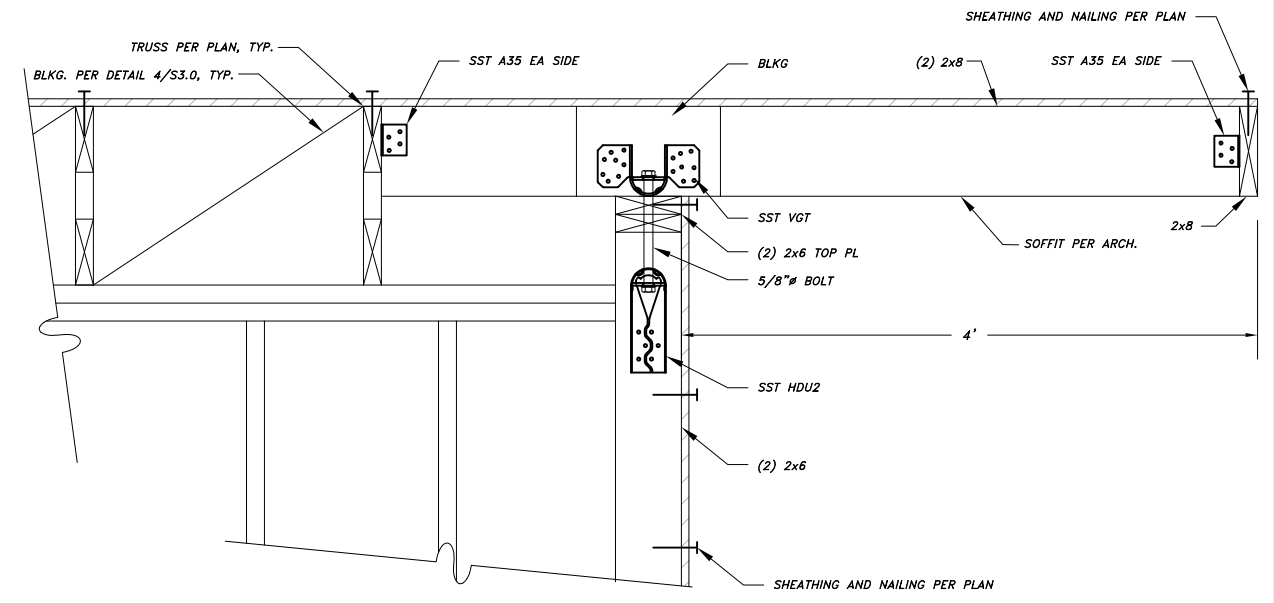
1 TYPICAL ROOF CORNER FRAMING
3/4"=1'-0"



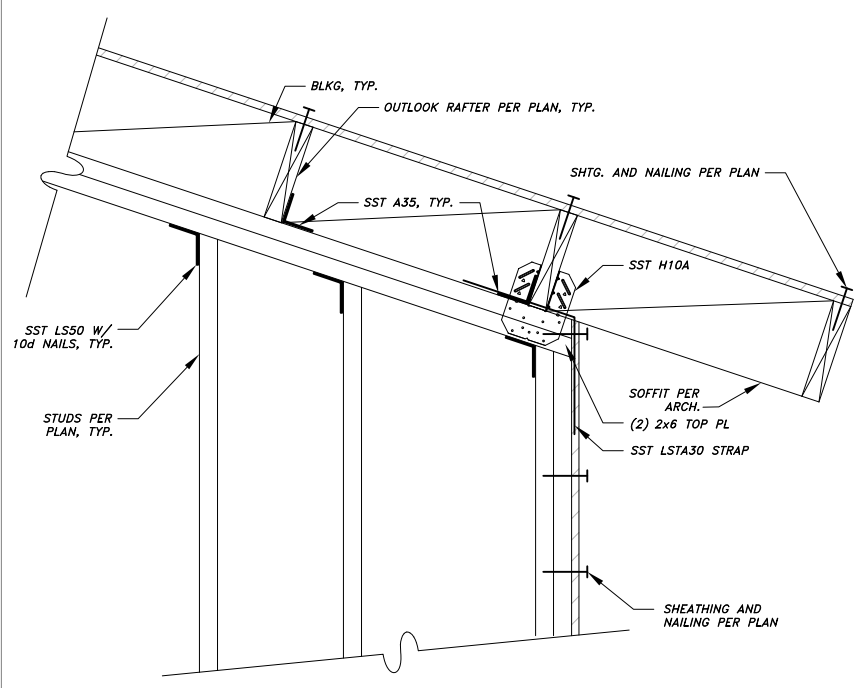
2 4' OVERHANG ROOF CORNER FRAMING
3/4"=1'-0"



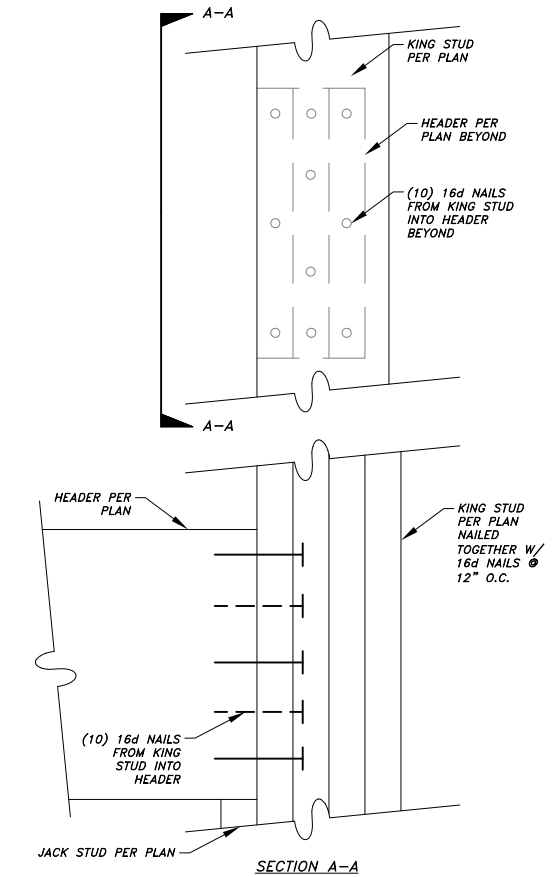
3 4' OVERHANG ROOF CORNER DETAIL - FRONT VIEW
1-1/2"=1'-0"



4 4' OVERHANG ROOF CORNER DETAIL - SIDE VIEW
1-1/2"=1'-0"



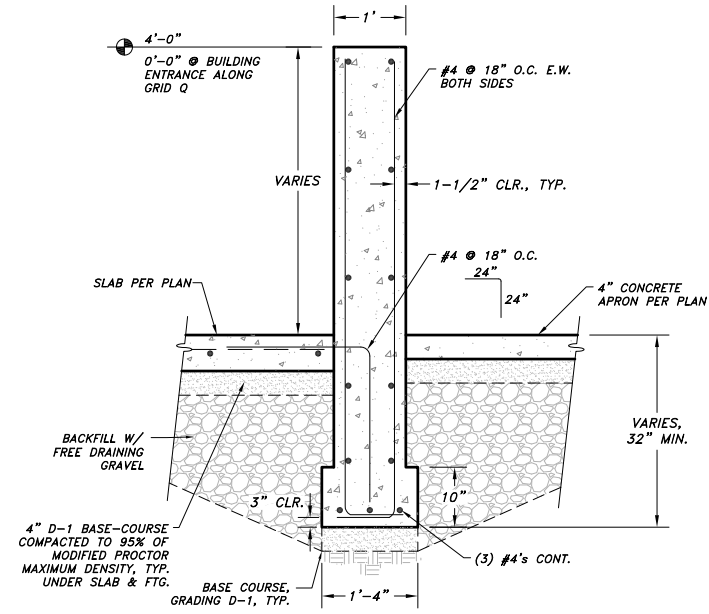
5 TYPICAL ROOF CORNER DETAIL
1-1/2"=1'-0"



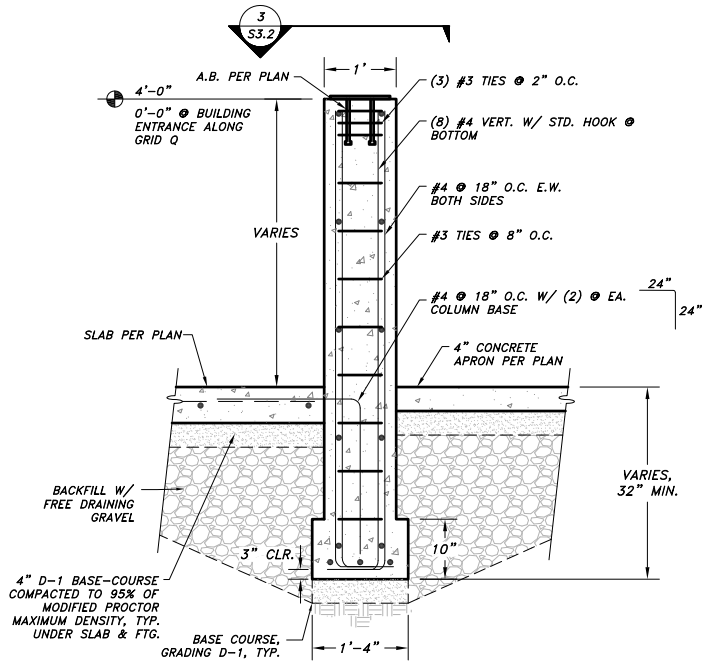
6 HEADER CONNECTION DETAIL
3"=1'-0"

NOTE: 11"x 17" PRINT IS HALF SIZE

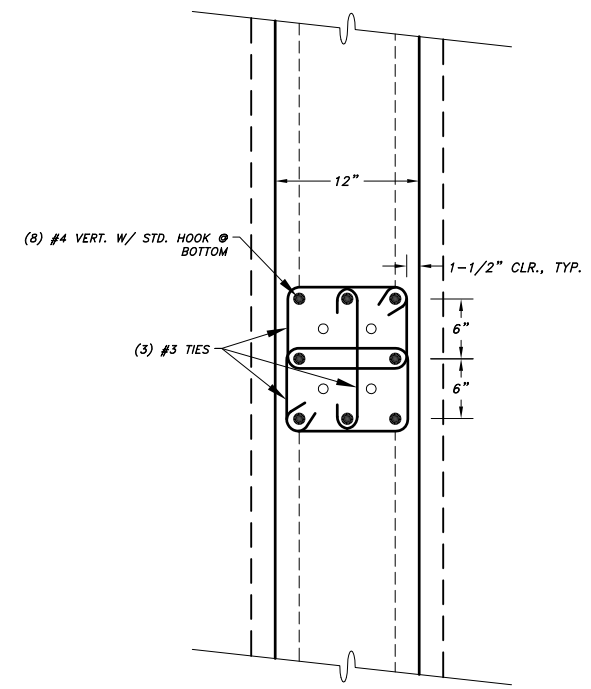
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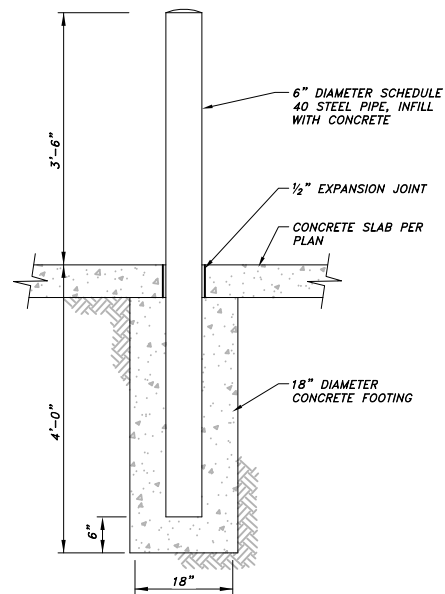
1 TYPICAL STEMWALL / FOOTING
3/4"=1'-0"



2 STEM WALL @ COLUMN BASE PL, TYP.
3/4"=1'-0"



3 TYPICAL ANCHOR BOLT REINFORCING CAGE
1-1/2"=1'-0"



4 TYPICAL BOLLARD DETAIL
3/4"=1'-0"



11/4/16



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MRV 1519

Contract No: DHT17-008

No.	Description	Date

SHEET TITLE:
FABRIC STRUCTURE FDN. DETAILS

DATE: 11/4/2016
SCALE:
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CHECKED: MCP

SHEET NO.

S3.2

NOTE: 11"x 17" PRINT IS HALF SIZE



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SHEET INDEX	
SHEET NO.	SHEET TITLE
E0.1	SHEET INDEX AND LEGEND
E1.1	SITE PLAN - ELECTRICAL
E2.1	EXTG MAINT SHED FLOOR PLAN - ELECTRICAL
E2.2	SHOP FLOOR PLAN - ELECTRICAL
E2.3	EXTG UTILITY BUILDING FLOOR PLAN - ELECTRICAL
E2.4	OFFICE FLOOR PLAN - ELECTRICAL
E3.1	SHOP AND OFFICE SINGLE LINE DIAGRAMS
E4.1	TRENCH DETAILS

GENERAL NOTES:

- PROVIDE FLUSH MOUNT DEVICES AND CONCEALED WIRING IN THE OFFICE BUILDING. PROVIDE SURFACE MOUNT DEVICES AND WIRING IN THE SHOP BUILDING. ALL WIRING SHALL BE IN CONDUIT. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION INDOORS AND XHHW INSULATION OUTDOORS. PROVIDE COMMERCIAL SPECIFICATION GRADE DEVICES. PROVIDE STAINLESS STEEL OR HOT DIPPED GALVANIZED HARDWARE OUTDOORS WITH NEMA 3R STAINLESS STEEL ENCLOSURES. PERFORM ALL WORK PER NEC AND NFPA CODES AS ADOPTED BY THE CITY AND BOROUGH OF JUNEAU.
- THE LUMINAIRE PART NUMBERS MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE LUMINAIRE FEATURES (INCLUDING THE MOUNTING) LISTED IN THE FLOOR PLANS AND IN THE SPECIFICATIONS.

LEGEND

	POWER & LIGHT PEDESTAL		FLUORESCENT LUMINAIRE "EM" INDICATES EMERGENCY BALLAST WITH 90 MINUTES OF LIGHT AT 100% OF ONE LAMP OUTPUT	EBM	EXTENDED BATTERY MODULE	PED	PEDESTAL
	DATA/TELEPHONE JACK	EM		EXTG	EXISTING	PR.	PAIR (2PR. = 2 PAIR)
	TELEPHONE JACK	AFF	ABOVE FINISHED FLOOR	GALV.	GALVANIZED	PROX.	PROXIMITY
	DATA JACK	AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	PTZ	PAN TILT ZOOM
	SINGLE POLE SWITCH	ACS	ALASKA COMMUNICATIONS SYSTEMS	GRS	GALVANIZED RIGID STEEL	PWR	POWER
	MOTOR CONNECTION	AEL&P	ALASKA ELECTRIC LIGHT AND POWER	GND	GROUND	REC	RECEPTACLE
	JUNCTION BOX	AUX	AUXILIARY	HOA	HAND OFF AUTO	REQ'D	REQUIRED
	DUPLEX RECEPTACLE	BLDG	BUILDING	J-BOX	JUNCTION BOX	SS	STAINLESS STEEL
	DOUBLE DUPLEX RECEPTACLE	C/B	CIRCUIT BREAKER	KAIC	KILO-AMPERE INTERRUPTING CAPACITY	STP	SHIELDED TWISTED PAIR
	HOME RUN	CBJ	CITY AND BOROUGH OF JUNEAU	LFNC	LIQUID TIGHT NON-METALLIC CONDUIT	TELE	TELEPHONE
	CONDUIT WITH CONDUCTORS. SEE PLANS FOR SIZE AND QUANTITY. EACH LARGE TIC INDICATES A NEUTRAL CONDUCTOR AND EACH SMALL TIC INDICATES A PHASE CONDUCTOR.	CKT	CIRCUIT	LTG	LIGHTING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	SPECIAL USE RECEPTACLE	COAX	COAXIAL CABLE	MAINT	MAINTENANCE	TYP	TYPICAL
	WALL MOUNT LUMINAIRE	CONC	CONCRETE	MIN	MINIMUM	TYP-#	TYPICAL OF # (TYP-2 = TYPICAL OF 2)
	POLE MOUNT LUMINAIRE	CONDS.	CONDUCTORS	NEC	NATIONAL ELEC CODE	UGE	UNDERGROUND ELECTRICAL UTILITY
	DISCONNECT	C	CONDUIT	NID	NETWORK INTERFACE DEVICE	UPS	UNINTERRUPTIBLE POWER SUPPLY
	THERMOSTAT	CTRL	CONTROL	N.O.	NORMALLY OPEN	UTP	UNSHIELDED TWISTED PAIR
	PAN TILT ZOOM CAMERA. LABEL DESIGNATES CAMERA NUMBER	DIST.	DISTRIBUTION	NIC	NOT IN CONTRACT	W/	WITH
		DVR	DIGITAL VIDEO RECORDER	NO.	NUMBER	WP	WEATHER PROOF
		DPST	DOUBLE POLE, SINGLE THROW	OHE	OVERHEAD ELECTRICAL UTILITY	XFMR	TRANSFORMER
		ELEC	ELECTRIC OR ELECTRICAL	P.E.	PHOTO ELECTRIC		

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 MRV 1519
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SHEET TITLE:
 SHEET INDEX AND LEGEND

DATE: 11/4/2016
 SCALE:
 DRAWN: LDS
 CHECKED: MGM

SHEET NO.
E0.1



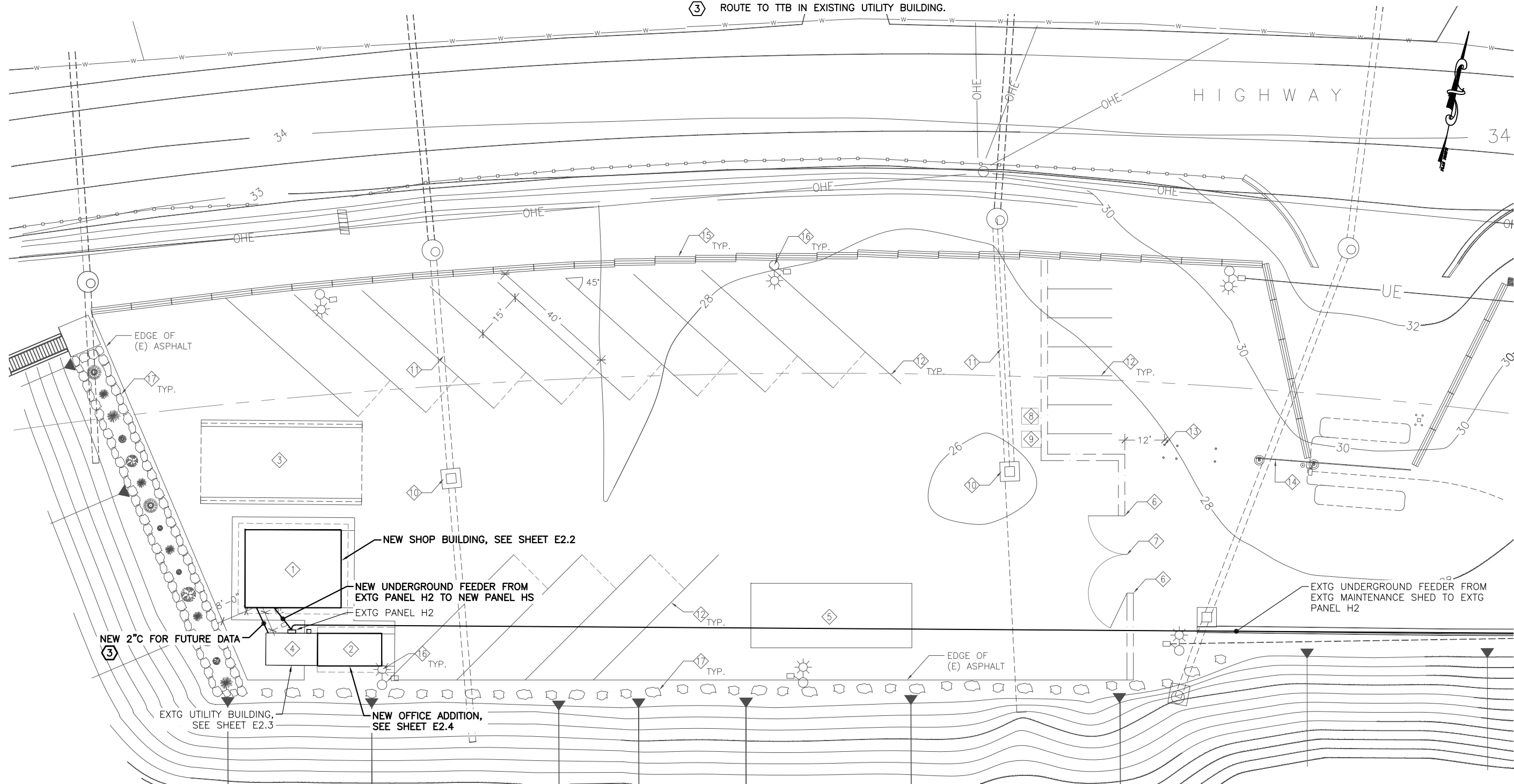
NOTE: 11"x 17" PRINT IS HALF SIZE

SHEET NOTES

- | | | |
|---------------------------------|-------------------------|----------------------|
| 1 SHOP, SEE A2.1 | 6 CONC BARRIER, NIC | 12 STRIPING, NIC |
| 2 OFFICE, SEE A2.3 | 7 GATE, NIC | 13 (E) BOLLARD |
| 3 FABRIC-COVERED BOAT SHED, NIC | 8 DUMPSTER, NIC | 14 (E) GATE |
| 4 (E) UTILITY BUILDING | 9 PORTABLE TOILET, NIC | 15 (E) CONC. BARRIER |
| 5 WASH-DOWN PAD, NIC | 10 (E) CATCH BASIN | 16 (E) LIGHT POLE |
| | 11 (E) STORM DRAIN LINE | 17 (E) BOULDER |

NOTES:

- COORDINATE WITH AEL&P TO PROVIDE A 200A, 277/480V, 3Φ, 4W SERVICE TO A NEW METER MAIN MOUNTED TO EXISTING MAINTENANCE SHED ON EAST SIDE OF PROPERTY (NOT SHOWN ON THIS SHEET). ROUTE THE EXISTING 225A FEEDER, (2) 2-1/2" C, 4 NO. 1/0 & 1 NO. 4 GND, OUT OF THE EXISTING PANEL MDP AND INTO A NEW 24" X 24" ENCLOSURE. TERMINATE ON POWER DISTRIBUTION BLOCKS IN ENCLOSURE. FEED THE BLOCKS FROM NEW METER MAIN WITH (2) 1-1/2" C, 4 NO. 2 & 1 NO. 6 GND, SEE SHEET E2.1. THE FEEDER POWERS THE EXISTING PANEL H2 IN EXISTING UTILITY BUILDING ON WEST END OF SITE. FEED THE NEW SHOP BUILDING FROM EXISTING PANEL H2 WITH A NEW 100/3 C/B AND (1) 2" C, 4 NO. 2 & 1 NO. 4 GND. CBJ TO PAY AEL&P FOR THEIR WORK.
- OBTAIN PRIVATE LOCATES OF EXISTING UNDERGROUND ELECTRICAL PRIOR TO CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR TO PROTECT EXISTING ELECTRICAL. REPLACE ALL ELECTRICAL DAMAGED DURING CONSTRUCTION.
- ROUTE TO TTB IN EXISTING UTILITY BUILDING.



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MRV 1519

CONSTRUCTION DRAWINGS
**AUKE BAY LOADING FACILITY BOAT YARD
STRUCTURES**
for
CBJ Docks and Harbors Dept.

Contract No. DH17-008

No.	Description	Date

SHEET TITLE:
SITE PLAN -
ELECTRICAL

DATE: 11/4/2016
SCALE:
DRAWN: LDS
CHECKED: MGM

SHEET NO.

E1.1

1 SITE PLAN - ELECTRICAL



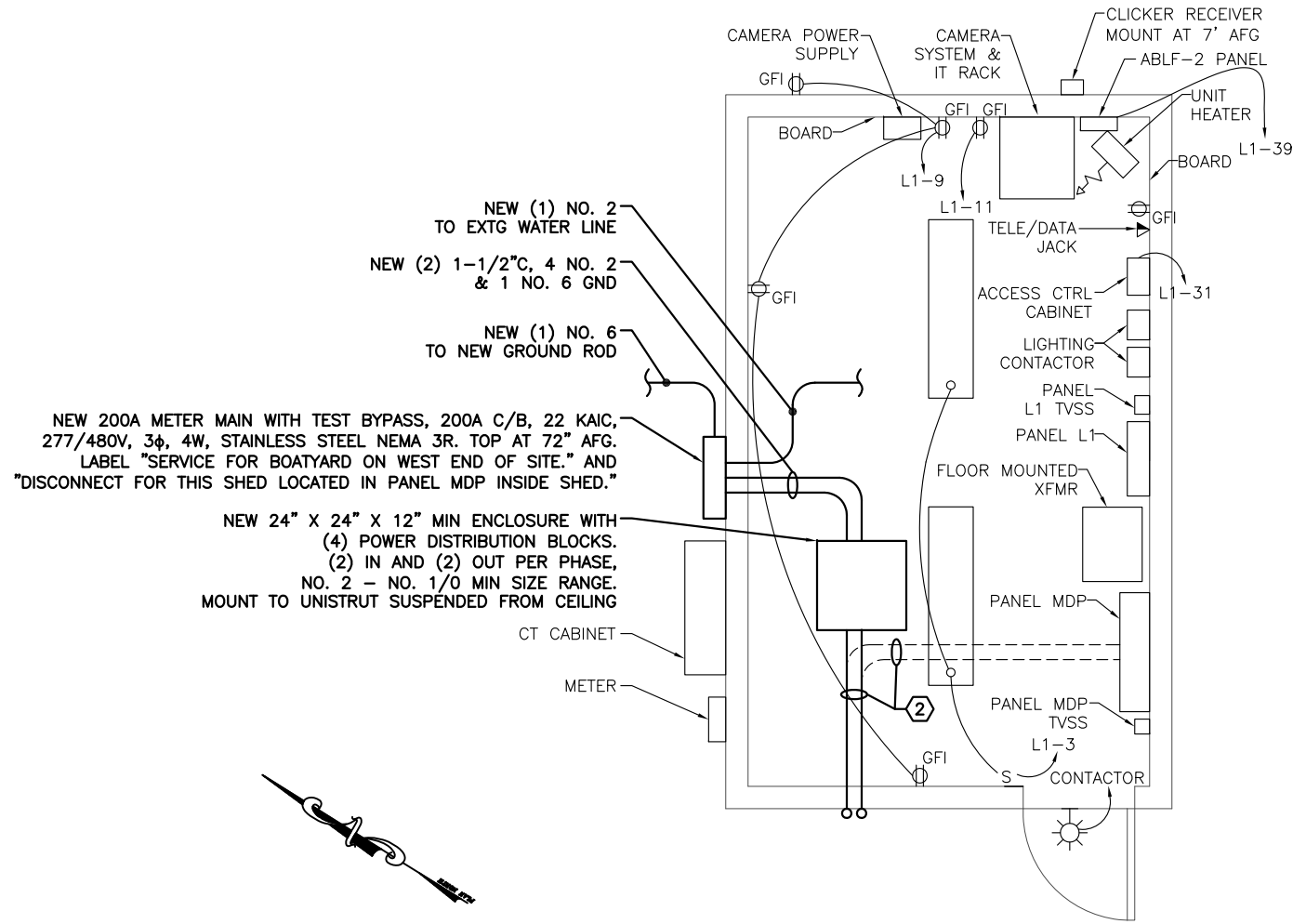
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Phone: 907-789-3350, License: AECL1010

NOTE: 11"x 17" PRINT IS HALF SIZE



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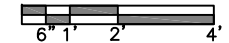
CONSTRUCTION DRAWINGS
AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES
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NEW (1) NO. 2 TO EXTG WATER LINE
 NEW (2) 1-1/2" C, 4 NO. 2 & 1 NO. 6 GND
 NEW (1) NO. 6 TO NEW GROUND ROD
 NEW 200A METER MAIN WITH TEST BYPASS, 200A C/B, 22 KAIC, 277/480V, 3φ, 4W, STAINLESS STEEL NEMA 3R. TOP AT 72" AFG. LABEL "SERVICE FOR BOATYARD ON WEST END OF SITE." AND "DISCONNECT FOR THIS SHED LOCATED IN PANEL MDP INSIDE SHED."
 NEW 24" X 24" X 12" MIN ENCLOSURE WITH (4) POWER DISTRIBUTION BLOCKS. (2) IN AND (2) OUT PER PHASE, NO. 2 - NO. 1/0 MIN SIZE RANGE. MOUNT TO UNISTRUT SUSPENDED FROM CEILING

- NOTES:
- EVERYTHING SHOWN IS EXISTING UNLESS OTHERWISE NOTED.
 - (2) 2-1/2" C, 4 NO. 1/0 & 1 NO. 4 GND REROUTE INTO NEW 24" X 24" ENCLOSURE. TERMINATE ON POWER DISTRIBUTION BLOCKS IN ENCLOSURE.

① EXTG MAINTENANCE SHED FLOOR PLAN - ELECTRICAL



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SHEET TITLE:
 EXTG MAINT SHED FLOOR PLAN - ELECTRICAL

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SHEET NO.
E2.1



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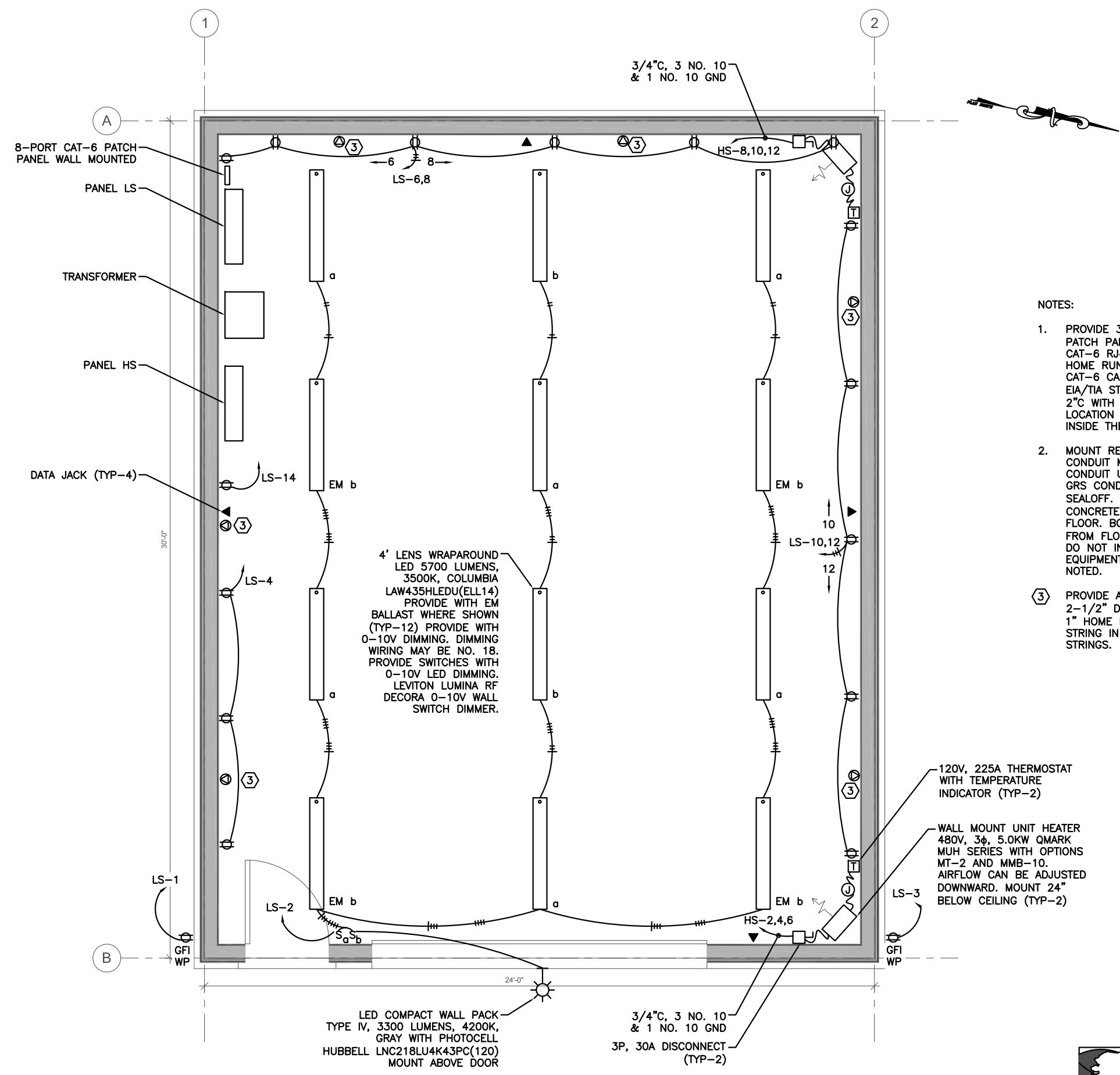
CONSTRUCTION DRAWINGS
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 for
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 MRV 1519
 Contract No. DH17-008

No.	Description	Date

SHEET TITLE:
**SHOP FLOOR PLAN -
 ELECTRICAL**

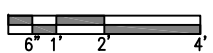
DATE: 11/4/2016
 SCALE:
 DRAWN: LDS
 CHECKED: MGM

SHEET NO.
E2.2



- NOTES:
- PROVIDE 3/4" C FROM EACH DATA JACK TO THE PATCH PANEL. PROVIDE EACH DATA JACK WITH (2) CAT-6 RJ45 CONNECTORS, EACH WITH ITS OWN HOME RUN TO THE PATCH PANEL. TERMINATE CAT-6 CABLES ON PATCH PANEL AND TEST PER EIA/TIA STANDARDS FOR CAT-6 CABLE. PROVIDE 2" C WITH BUSHINGS BETWEEN THE PATCH PANEL LOCATION AND THE TELEPHONE TERMINAL BOARD INSIDE THE EXISTING UTILITY BUILDING.
 - MOUNT RECEPTACLES AND CONDUIT AT 42" AFF. CONDUIT MAY BE MOUNTED HIGHER. DO NOT STUB CONDUIT UP THROUGH SLAB. FEED PANEL HS WITH GRS CONDUIT STUBBED UP THROUGH SLAB WITH SEALOFF. MOUNT TRANSFORMER ON A 24" CONCRETE PLINTH SO IT IS 24" ABOVE THE FLOOR. BOLT TO PLINTH WITH HILTE BOLTS. AREA FROM FLOOR UP TO 18" IS CLASS 1, DIVISION 2. DO NOT INSTALL ANY ELECTRICAL WIRING OR EQUIPMENT IN THIS AREA UNLESS OTHERWISE NOTED.
- ③ PROVIDE A 4-11/16" SQUARE JUNCTION BOX X 2-1/2" DEEP WITH A BLANK COVER. PROVIDE A 1" HOME RUN TO PANEL LS. LEAVE A PULL STRING IN CONDUIT. LABEL BOXES AND PULL STRINGS.

① **SHOP FLOOR PLAN - ELECTRICAL**



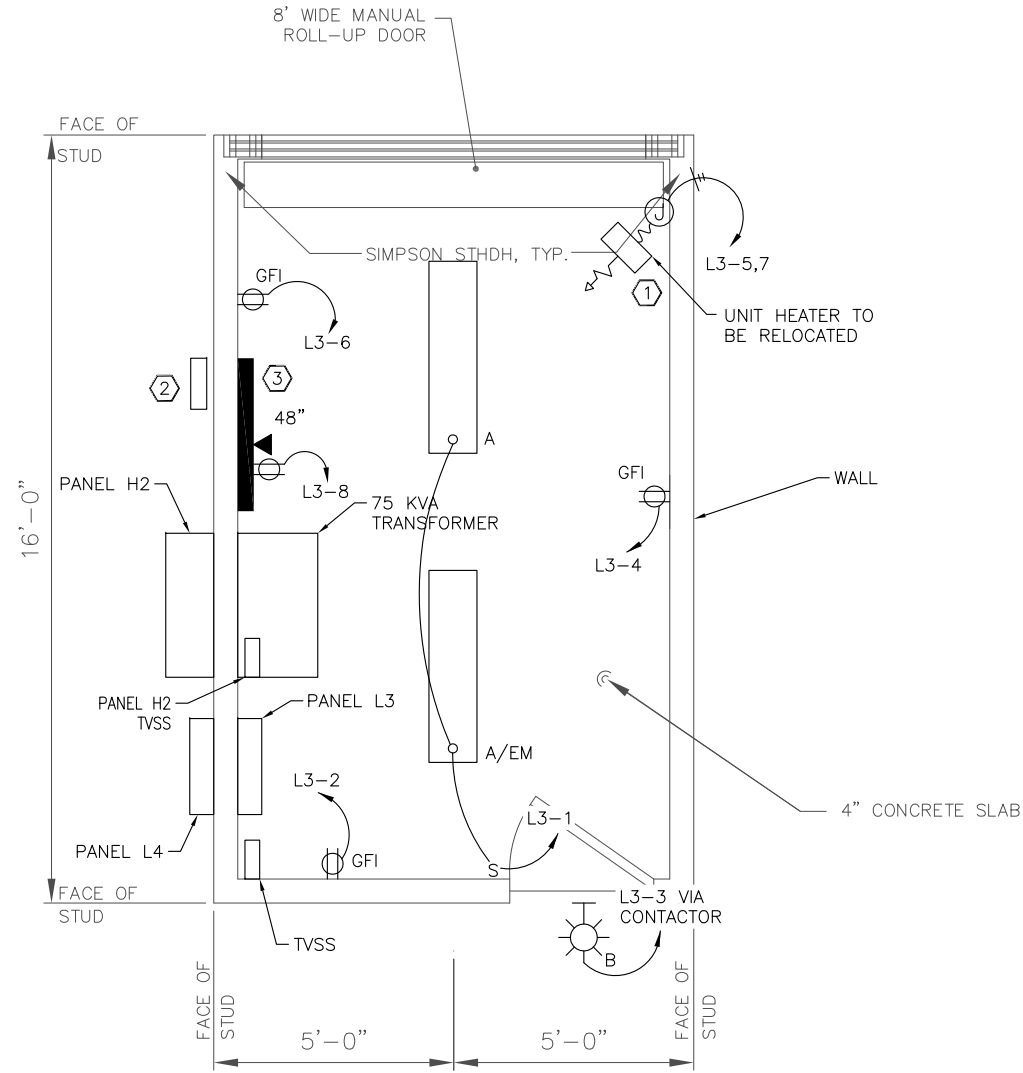
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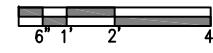
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NOTES:

- ① CEILING MOUNT UNIT HEATER. 208V, 1 ϕ , 3.7KW, WITH BUILT IN TWO STAGE THERMOSTAT AND THERMAL CUTOUT. AIR FLOW CAN BE ADJUSTED DOWNWARD. QMARK MUH05-21 WITH OPTIONS MT-2 AND MMB-10 OR EQUAL.
- ② 2 LINE TELEPHONE NETWORK INTERFACE DEVICE (N.I.D.).
- ③ 4' X 4" 1/2" PLYWOOD BOARD PAINTED GRAY TO MOUNT THE TELEPHONE EQUIPMENT ON.
4. ALL EXISTING EQUIPMENT TO REMAIN, RELOCATE EXISTING EQUIPMENT AS SHOWN WITH ASSOCIATED WIRING.



① EXTG UTILITY BUILDING FLOOR PLAN - ELECTRICAL



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Contract No. DH17-008 MRV 1519

No.	Description	Date

SHEET TITLE:
EXTG UTILITY BUILDING FLOOR PLAN - ELECTRICAL

DATE: 11/4/2016
 SCALE:
 DRAWN: LDS
 CHECKED: MGM

SHEET NO.
E2.3

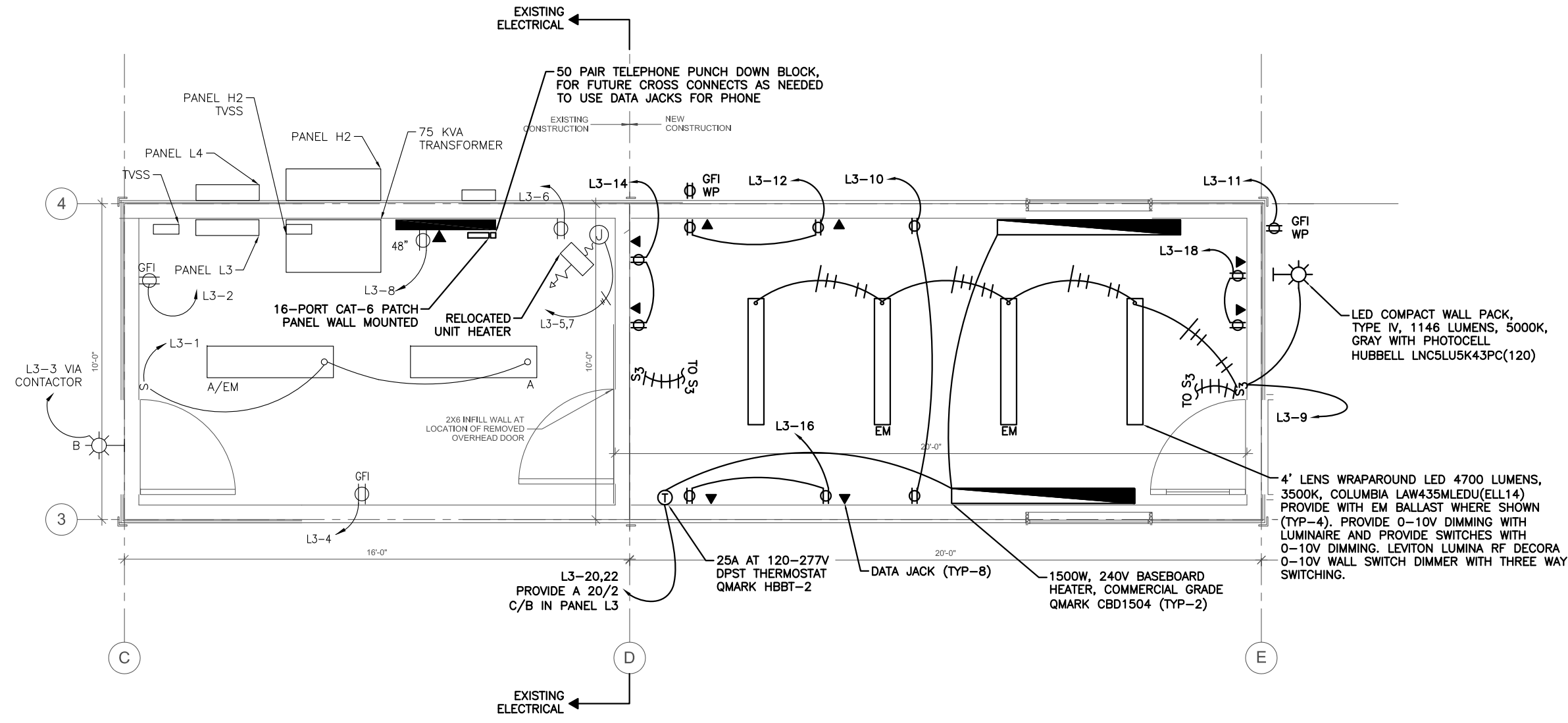
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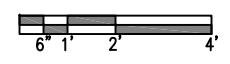
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CONSTRUCTION DRAWINGS
AUKE BAY LOADING FACILITY BOAT YARD STRUCTURES
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 Contract No. DH17-008
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- NOTES:
1. PROVIDE 3/4" C FROM EACH DATA JACK TO THE PATCH PANEL. PROVIDE EACH DATA JACK WITH (2) CAT-6 RJ45 CONNECTORS, EACH WITH ITS OWN HOME RUN TO THE PATCH PANEL. TERMINATE CAT-6 CABLES ON PATCH PANEL AND TEST PER EIA/TIA STANDARDS FOR CAT-6 CABLE. COORDINATE WITH ACS TO PROVIDE AN INTERNET AND PHONE SERVICE TO THE OFFICE BUILDING. COORDINATE LOCATION OF NID WITH ACS AND ROUTE 3/4" C FROM NID LOCATION TO PATCH PANEL. PROVIDE SHELF ABOVE PATCH PANEL FOR INTERNET EQUIPMENT.
 2. MOUNT ALL RECEPTACLES AND BASEBOARD HEATERS AT 24" AFF.
 3. L3 IS A SQUARED NQO PANEL. L3 HAS 20/1 SPARE CIRCUIT BREAKERS FOR CIRCUITS 9-30. EXISTING SHED CIRCUITING MAY NOT BE FED FROM C/B SHOWN.

① OFFICE FLOOR PLAN - ELECTRICAL



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 OFFICE FLOOR PLAN - ELECTRICAL

DATE: 11/4/2016
 SCALE:
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 CHECKED: MGM

SHEET NO.

E2.4

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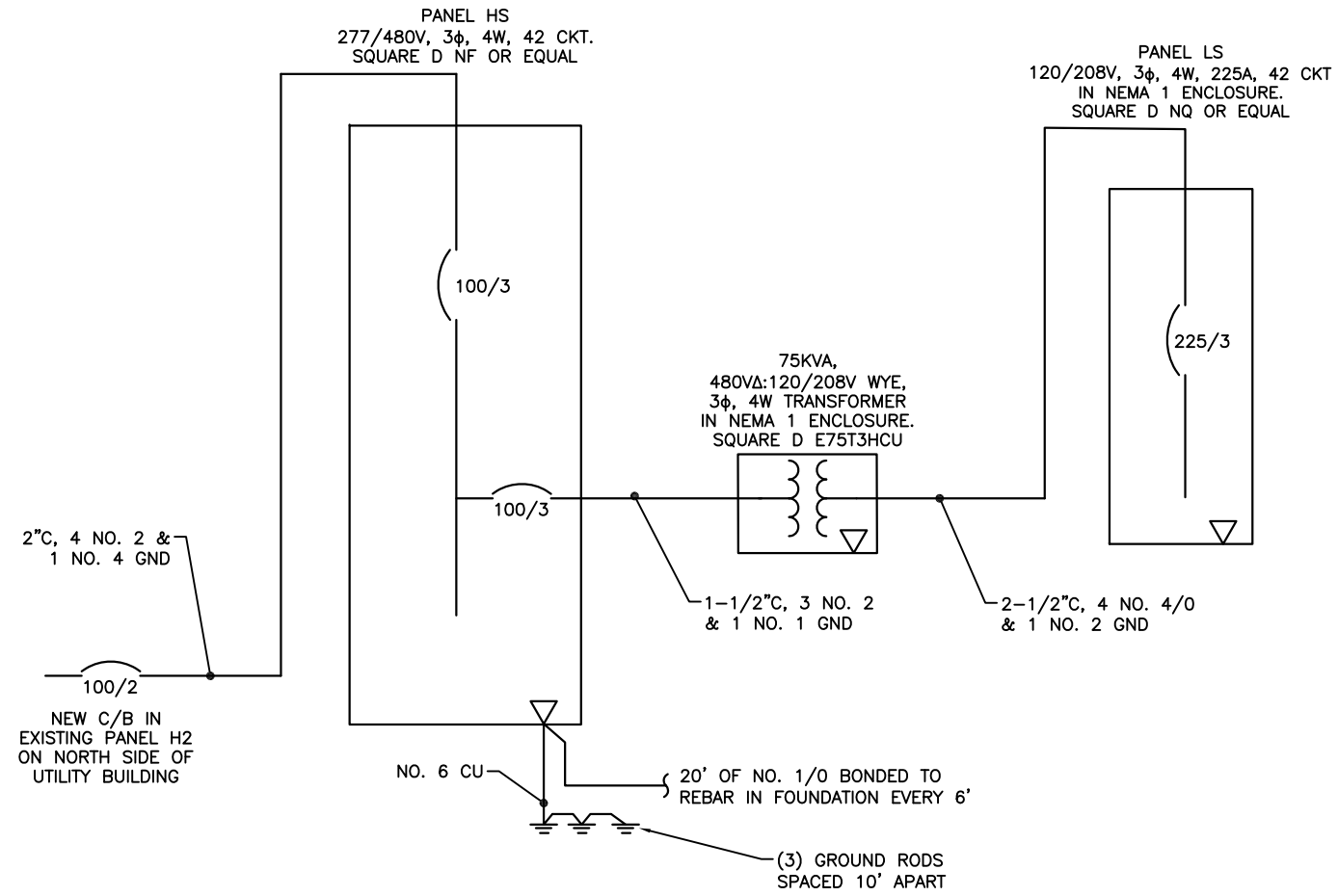


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NOTES:

1. PROVIDE PANEL HS WITH (2) 20/3 CIRCUIT BREAKERS FOR HEATERS, (2) SPARE 30/3 AND (2) SPARE 50/3 CIRCUIT BREAKERS IN ADDITION TO (1) 100/3 CIRCUIT BREAKER FOR TRANSFORMER.
2. PROVIDE PANEL LS WITH (4) 30/2 CIRCUIT BREAKERS, (4) 50/2 CIRCUIT BREAKERS, (24) 20/1 CIRCUIT BREAKERS AND (2) 20/1 GFI CIRCUIT BREAKERS.

① **SHOP SINGLE LINE DIAGRAM**

No.	Description	Date

SHEET TITLE:
**SHOP AND OFFICE
 SINGLE LINE
 DIAGRAMS**

DATE: 11/4/2016
 SCALE:
 DRAWN: LDS
 CHECKED: MGM

SHEET NO.
E3.1

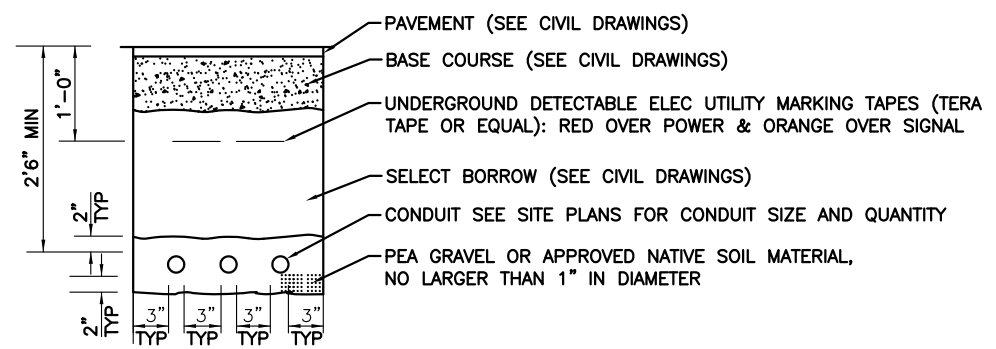


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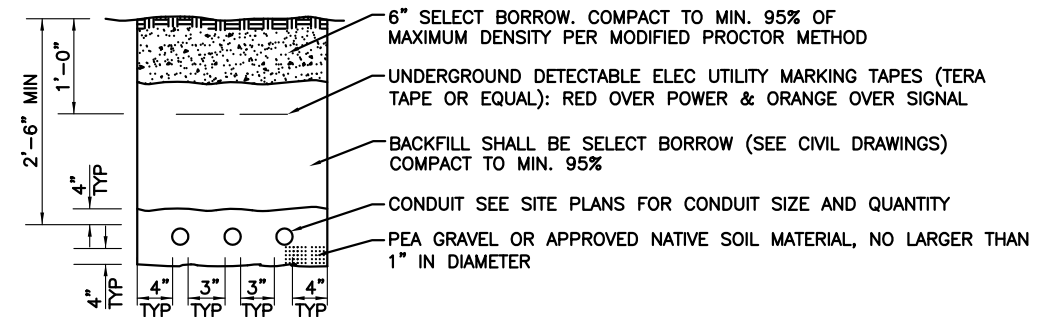
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 Contract No. DH17-008
 MRV 1519



NOTES:

1. ALL DIMENSIONS ARE MINIMUM.
2. SEE CIVIL DRAWINGS FOR TYPICAL SECTIONS UNDER PAVED AREAS. PROVIDE BACKFILL (MATERIAL, COMPACTION, ETC.) PER THE CIVIL DRAWINGS.
3. THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC. MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES, CONDUITS, CABLES, AND OTHER CONFLICTS.
4. MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.
5. CUT & REPLACE EXISTING ASPHALT, CONCRETE, CONCRETE CURB, GUTTER, SIDEWALK, ETC. AS NECESSARY.
6. SAWCUT EXISTING ASPHALT AS REQUIRED TO INSTALL CONDUIT AND OTHER ELECTRICAL ITEMS. SAWCUT ASPHALT BACK 18" ON EACH SIDE OF EDGE OF TRENCH OR EXCAVATION AREA (ALL SIDES). THERE SHALL BE 18" OF UNDISTURBED SOIL BETWEEN EDGE OF SAWCUT AND EXCAVATION LIMITS. ALL TRENCHES SHALL BE 18" WIDE MIN. COMPACT BACKFILL TO 95%. COMPACT D-1 TO 100% WHERE COVERED WITH PAVEMENT. RE-PAVE SAWCUT AREAS PER PAVING SPECIFICATIONS.
7. POWER UTILITY CONDUITS SHALL BE BURIED AT A MINIMUM OF 3'-6". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
8. MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ASSUME CONDUIT WILL HAVE TO BE BURIED DEEPER TO AVOID EXISTING ELECTRICAL UTILITIES, PRIVATE CONDUIT AND CABLES, AND OTHER PIPING, STRUCTURES, ETC. ADJUST CONDUIT ROUTING AS REQUIRED. PROVIDE PRIVATE LOCATES.
9. THIS DETAIL APPLIES TO DRAIN CONDUITS AS WELL AS POWER & SIGNAL CONDUITS.

① **TRENCH DETAIL - PAVED AREAS**
 NO SCALE



NOTES:

1. ALL DIMENSIONS ARE MINIMUM.
2. THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC. MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES, CONDUITS, CABLES, AND OTHER CONFLICTS.
3. MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.
4. CUT & REPLACE EXISTING ASPHALT, CONCRETE, CONCRETE CURB, GUTTER, SIDEWALK, ETC. AS NECESSARY.
5. ALL TRENCHES SHALL BE 18" WIDE MIN. COMPACT BACKFILL TO 95%.
6. POWER UTILITY CONDUITS SHALL BE BURIED AT A MINIMUM OF 3'-6". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
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8. THIS DETAIL APPLIES TO DRAIN CONDUITS AS WELL AS POWER & SIGNAL CONDUITS.

② **TRENCH DETAIL - NON-PAVED AREAS**
 NO SCALE

No.	Description	Date

SHEET TITLE:
TRENCH DETAILS

DATE: 11/4/2016
 SCALE:
 DRAWN: LDS
 CHECKED: MGM

SHEET NO.

E4.1



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