NEW CONSTRUCTION OF

SINGLE CARPORT

3434 97TH AVE SE MERCER ISLAND WA 98040

Prepared for

Joosuk Hwang

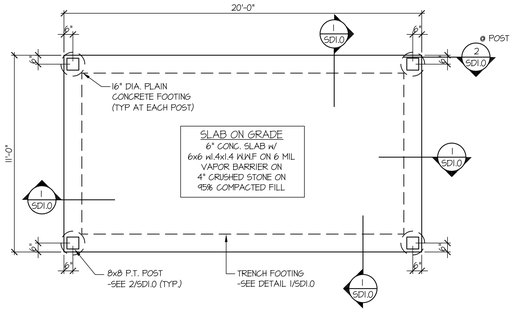
Issued information

PERMIT SET

04/12/2021

FOUNDATION NOTES

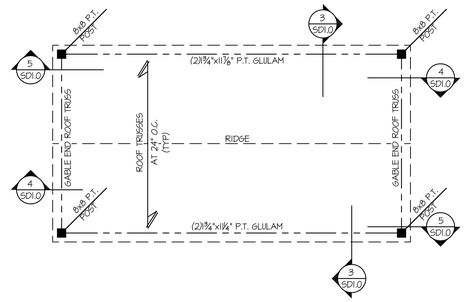
- DESIGN IS BASED ON 2015 IRC w/ WASHINGTON STATE AMENDMENTS.
- FOOTING DESIGN - 1500 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
  f'c = 3500 psi ..... FOOTINGS & EXTERIOR SLABS ON GRADE
  fy = 60,000 psi
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
  - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
  - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
  - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.



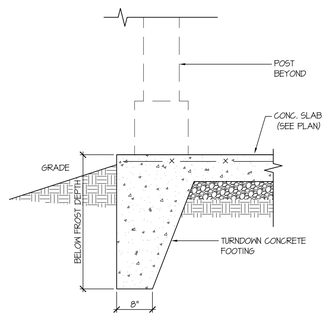
1 FOUNDATION PLAN
SCALE: 1/4"=1'-0"

FRAMING NOTES

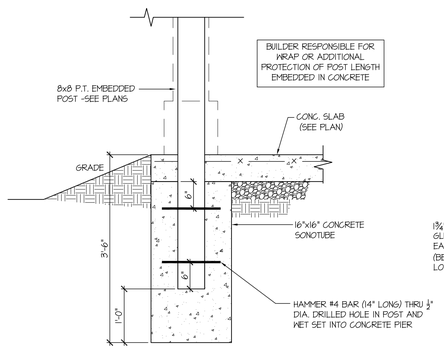
- ALL HEADERS, BEAMS, & OTHER STRUCTURAL MEMBERS SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2 LUMBER, OR BETTER.
- ROOF CONSTRUCTION SHALL BE METAL STANDING SEAM ROOF OVER 3/8" A.P.A. RATED SHEATHING 32/16, EXPOSURE 1. FASTEN SHEATHING TO FRAMING MEMBERS W/ -2 3/8"X0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. @ INTERMEDIATE SUPPORTS.
  -2 3/8"X0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. @ INTERMEDIATE SUPPORTS.
  -PROVIDE "H" STYLE CLIPS ALONG UNSUPPORTED EDGES.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORDINATE.
- ALL HANGERS AND HARDWARE, INCLUDING BOLTS, TO BE HOT DIPPED GALVANIZED.



2 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



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



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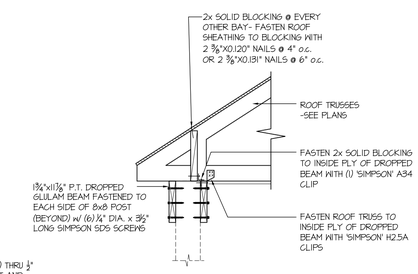
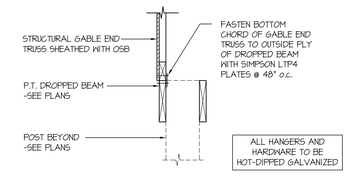
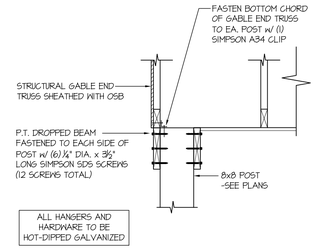
SCALE: 3/4"=1'-0"



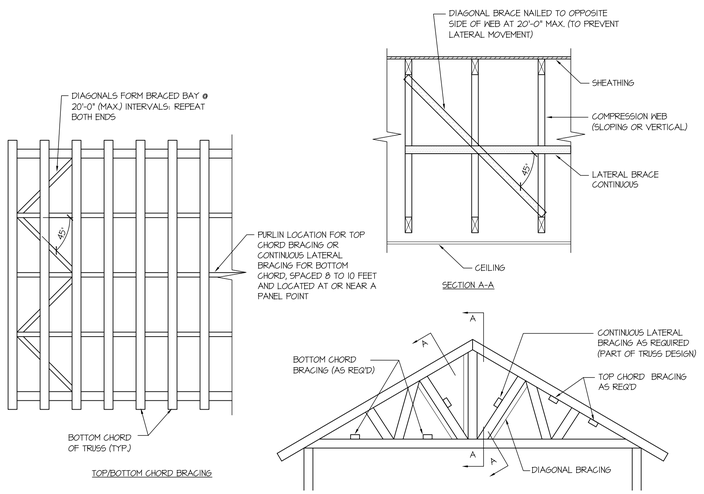
3 SECTION
SCALE: 3/4"=1'-0"



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



5 SECTION AT POST
SCALE: 3/4"=1'-0"



A PERMANENT TRUSS BRACING DETAILS & NOTES
SCALE: NONE

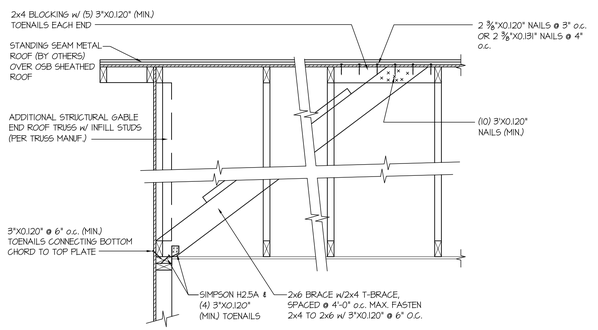
TRUSS NOTES:

1. WOOD TRUSSES SHALL BE BRACED AND ERECTED IN ACCORDANCE WITH THE BUILDING COMPONENT SAFETY INFORMATION (BCSI), "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

2. BRACING IN THE PLANE OF WEB MEMBERS:
   a. THE TRUSS FABRICATOR SHALL PROVIDE AND LOCATE CONTINUOUS LATERAL BRACING FOR EACH TRUSS WEB MEMBER AS REQUIRED.
   b. LATERAL BRACING SHALL BE RESTRAINED BY DIAGONAL BRACING (MIN. 2" THICK NOMINAL LUMBER). THIS BRACING IS TO BE CONTINUOUS.
   c. PROVIDE ONE ROW OF DIAGONAL BRACING AT VERTICAL WEB MEMBERS OF TRUSSES CLOSEST TO EACH GABLE END WALL & ADDITIONAL BRACES @ 20'-0" AS REQUIRED.

3. BOTTOM CHORD BRACING
   THE BOTTOM CHORDS SHALL BE BRACED BY CONTINUOUS LATERAL BRACING SPACED AT 8 TO 10 FEET NAILED TO TOP OF THE BOTTOM CHORD. DIAGONALS PLACED AT 45° TO THE LATERAL BRACES SHALL BE LOCATED AT EACH END. IF THE BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.

4. TOP CHORD BRACING
   a. IF PLYWOOD DECKING IS APPLIED DIRECTLY TO TOP CHORD, PROPERLY LAPPED AND NAILED TO DEVELOP DIAPHRAGM ACTION, BRACING IS NOT REQUIRED.
   b. IF PURLINS ARE USED, DIAGONAL TOP CHORD BRACING IS REQUIRED AT EACH END. IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.



B TYPICAL GABLE END BRACING DETAIL
SCALE: 3/4"=1'-0"

seal:

JAMES G. FRILING
STATE OF WASHINGTON
49880
REGISTERED
PROFESSIONAL ENGINEER

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Brookside Ave. Building 4 ▸ Ambler, PA 19002
p 215-646-8001 ▸ mulhernkulp.com

Mulhern+Kulp project number: 01B-18061

project mgr: NJM
drawn by: MJB
issue date: 09-17-18

REVISIONS:

date:	initial:

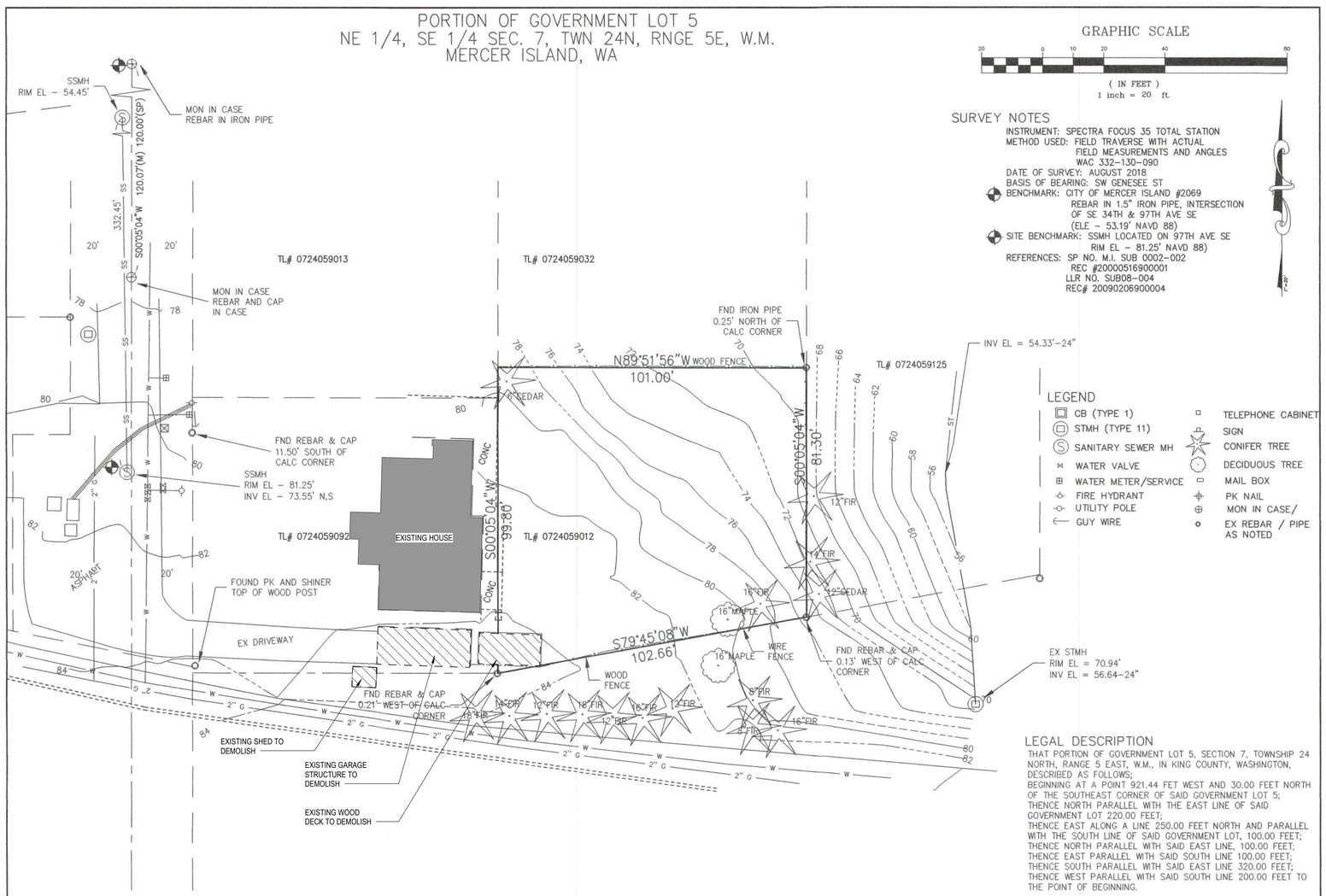
J DESIGNS
SEATTLE

FRAMING PLANS & DETAILS

CARPORT
3434 97TH AVE SE
MERCER ISLAND, WASHINGTON

sheet:
SD1.0

PORTION OF GOVERNMENT LOT 5
NE 1/4, SE 1/4 SEC. 7, TWN 24N, RNGE 5E, W.M.
MERCER ISLAND, WA



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

SURVEY NOTES

INSTRUMENT: SPECTRA FOCUS 35 TOTAL STATION
METHOD USED: FIELD TRAVERSE WITH ACTUAL FIELD MEASUREMENTS AND ANGLES WAC 332-130-090
DATE OF SURVEY: AUGUST 2018
BASIS OF BEARING: SW GENESEE ST
BENCHMARK: CITY OF MERCER ISLAND #2069
REBAR IN 1.5" IRON PIPE, INTERSECTION OF SE 34TH & 97TH AVE SE
(ELE = 53.19' NAVD 88)
SITE BENCHMARK: SSMH LOCATED ON 97TH AVE SE
RIM EL = 81.25' NAVD 88)
REFERENCES: SP NO. M.I. SUB 0002-002
REC #20000516900001
LLR NO. SUB08-004
REC# 20090206900004

LEGEND

- CB (TYPE 1)
- STMH (TYPE 11)
- SANITARY SEWER MH
- WATER VALVE
- WATER METER/SERVICE
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- TELEPHONE CABINET
- SIGN
- CONIFER TREE
- DECIDUOUS TREE
- MAIL BOX
- PK NAIL
- MON IN CASE/
- EX REBAR / PIPE AS NOTED

LEGAL DESCRIPTION

THAT PORTION OF GOVERNMENT LOT 5, SECTION 7, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS;
BEGINNING AT A POINT 921.44 FET WEST AND 30.00 FEET NORTH OF THE SOUTHEAST CORNER OF SAID GOVERNMENT LOT 5;
THENCE NORTH PARALLEL WITH THE EAST LINE OF SAID GOVERNMENT LOT 220.00 FEET;
THENCE EAST ALONG A LINE 250.00 FEET NORTH AND PARALLEL WITH THE SOUTH LINE OF SAID GOVERNMENT LOT, 100.00 FEET;
THENCE NORTH PARALLEL WITH SAID EAST LINE, 100.00 FEET;
THENCE EAST PARALLEL WITH SAID SOUTH LINE 100.00 FEET;
THENCE SOUTH PARALLEL WITH SAID EAST LINE 320.00 FEET;
THENCE WEST PARALLEL WITH SAID SOUTH LINE 200.00 FEET TO THE POINT OF BEGINNING.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

RECORDER'S CERTIFICATE No. _____
Filed for record this___day of_____,20___ at___ M
in book____of_____at page_____ at the request of _____
Mgr. Supt. of Records

LAND SURVEYOR'S CERTIFICATE
This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Survey Recording Act at the request of
in _____
Certificate No. 38992

DAN M. TOUMA
STATE OF WASHINGTON
38992
REGISTERED
PROFESSIONAL LAND SURVEYOR

TOUMA ENGINEERS AND LAND SURVEYORS, PLLC
255 SW 41st STREET
RENTON, WASHINGTON 98057
425-251-0665 OFFICE
425-251-0625 FAX

BOUNDARY & TOPOGRAPHY
3440 97TH AVE SE
MERCER ISLAND, WA 98040

DWN. BY	DATE	JOB NO.
DJH	AUGUST 2018	1019-004-018
CHKD. BY	SCALE	SHEET
DMT	NOTED	1 OF 1

1 SITE PLAN - DEMO
1" = 20'-0"

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Project
SINGLE CARPORT
3434 97TH AVE SE MERCER ISLAND WA 98040
Prepared for
Joosuk Hwang

Key Plan

Professional Seals

No.	Description	Date

Project No: 00.00000.00
Sheet Title:
SITE PLAN - DEMO

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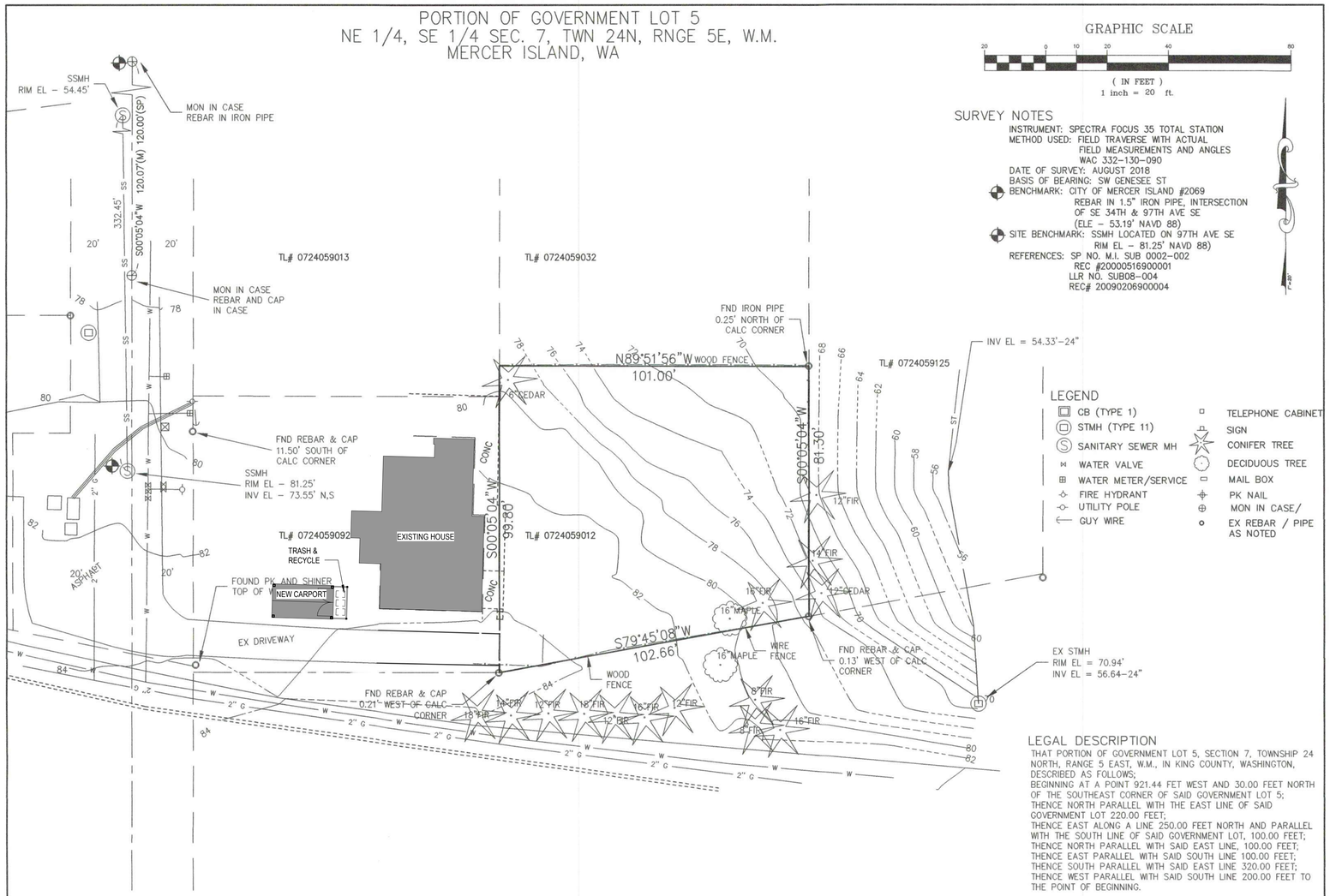
Sheet Number
A101



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CHKD. BY	SCALE	SHEET
DMT	NOTED	1 OF 1

1 SITE PLAN
1" = 20'-0"

GENERAL PLAN NOTES

1. SEE STRUCTURAL DRAWING FOR SIZE OF CARPORT.

2. CARPORT FLOOR TO BE COVERED WITH 4" CRUSHED STONE ON COMPACT FILL. SEE STRUCTURAL FOR DETAIL.

Project
SINGLE CARPORT
3434 97TH AVE SE MERCER ISLAND WA 98040
Prepared for
Joosuk Hwang

Key Plan

Professional Seals

No.	Description	Date

Project No: 00.00000.00
Sheet Title:
SITE PLAN

Original is 36 x 24. Do not scale contents of this drawing.
Sheet Number
A102

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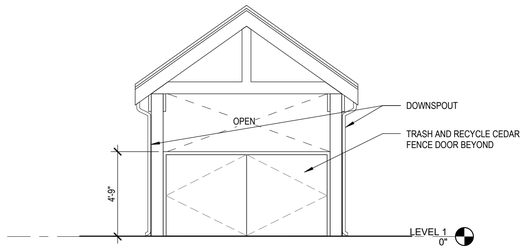
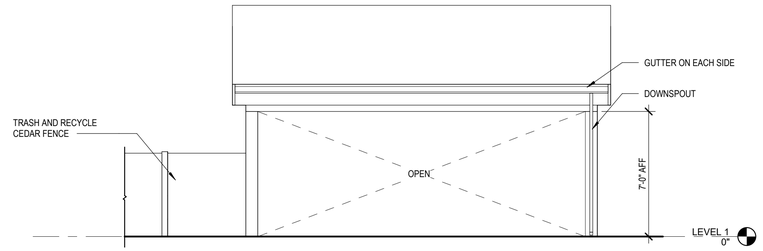
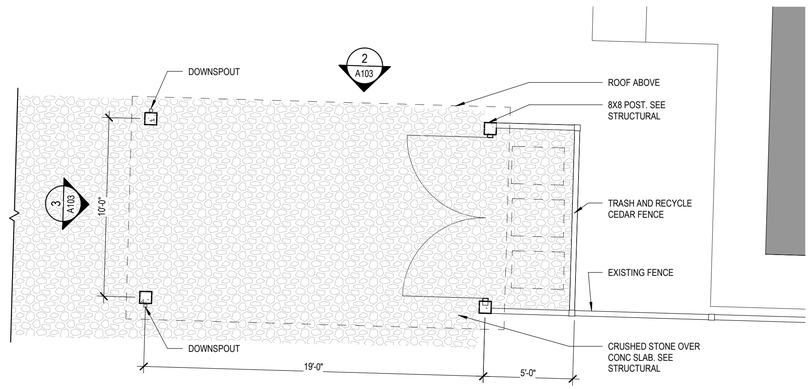


3 WEST ELEVATION
1/4" = 1'-0"



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



1 FLOOR PLAN - LEVEL 1
1/4" = 1'-0"

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SINGLE CARPORT
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Key Plan

Professional Seals

No.	Description	Date

Project No: 00.00000.00
Sheet Title:

FLOOR PLAN AND ELEVATIONS

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Sheet Number

A103