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ELECTRICAL ENGINEER

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CELLULAR:

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STRUCTURAL ENGINEER

PHONE: FAX: CELLULAR:

ABBREVIATIONS

AIR CONDITIONING

ANCHOR BOLT INSULATION AIR CONDITIONING INTERIOR JST ACOUSTICAL CEILING TILE **JOIST** ABOVE FINISHED FLOOR MAX MAXIMUM ALUMINUM MECH MECHANICAL ANCH ANCHOR MINIMUM BOARD MASONRY OPENING BD MOISTURE RESISTANT GYP BD BEAM CTOC CENTER TO CENTER MTL METAL CARPET ON CENTER PB0 CONSTRUCTION JOINT PROVIDED BY OWNER CMU CONCRETE MASONRY UNIT PLATE COL COLUMN PRE-ENG PRE-ENGINEERED CONC CONCRETE PLAM PLASTIC LAMINATE CONSTR CONSTRUCTION PLYMD PLYWOOD CONTINUOUS PULL STATION CONTR PRESSURE TREATED OR PAINT CONTRACTOR CERAMIC TILE PTD PAINTED PVC POLYVINYL CHLORIDE PIPE DET DETAIL RESIL DRINKING FOUNTAIN RESILIENT RETAINING DOWN SPOUT SHEET DRAWING EACH STEEL ELEVATION TEMPERATURE T & G TONGUE AND GROOVE EXPANDED POLYSTYRENE EQUIP EQUIPMENT TOP OF CONCRETE TOF EMH ELECTRIC WATER HEATER TOP OF FOOTING TOP OF STEEL TOS EXP EXPANSION OR EXPOSED EXT TOW TOP OF WALL EXTERIOR OR EXISTING TOILET PAPER HOLDER EXIST EXISTING FINISH FLOOR/FINISH FACE TYPICAL VINYL COMPOSITE TILE FLOORING FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET VINYL BASE FG FIBERGLASS MITH WATER CLOSET FIRE HOSE CABINET FLASH FLASHING MOOD FIBER-REINFORCED PLASTIC XPS MOOD GAUGE 32 DEGREES, 4 MINUTES, 8 SECONDS GRAB BAR DIAMETER GYP BD GYPSUM BOARD AND HDMD HARDWOOD HIGH OR HEIGHT ANGLE HVAC HEATING, VENTILATION & CENTER LINE

Rutledge Pike Mini Storage

5831 - 5851 - 5859 Rutledge Pike Knoxville, TN 37924



SITE

1 \KEY MAP G001 / SCALE: N.T.S.

GENERAL NOTES

6 SCOPE OF WORK: New construction for climate control self-storage facility in 2 or more buildings, with an open RV \$ boat storage structure, and a new one-story office/living building.

62 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL

CODES, ORDINANCES, AMENDMENTS, & COVENANTS:

2009 ICC / ANSI AII7.I

2018 edition of the International Energy Conservation Code

2018 edition of the International Building Code 2017 edition of the National Electrical Code

2018 edition of the International Fuel Gas Code 2018 edition of the International Mechanical Code

2018 edition of the International Plumbing Code

2018 edition of the International Property Maintenance Code 2018 edition of the International Fire Code with Local Amendments

63 READ (OR CALCULATE) DIMENSIONS FROM PUBLISHED <u>PRINTS OF CONSTRUCTION DRAWINGS; DO NOT "SCALE"</u> FROM DRAWINGS, IN EITHER THEIR PUBLISHED OR ELECTRONIC FORMS.

64 CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & DIMENSIONS BEFORE BEGINNING CONSTRUCTION; ANY DISCREPANCIES MUST BE REPORTED TO OUSKS architects FOR JUSTIFICATION AND/OR CORRECTION; CONTRACTOR ASSUMES RESPONSIBILITY FOR CONDITIONS THAT ARE NOT REPORTED.

65 CONTRACTOR SHALL FIELD-VERIFY COMPATIBILITY OF THE BUILDING WITH ALL SITE CONDITIONS; i.e., GRADES, ELEVATIONS, UTILITY LOCATIONS & INVERTS, OTHER EXISTING CONDITIONS, ETC.

66 ALL FOOTINGS MUST REST ON UNDISTURBED OR SUITABLE, COMPACTED SUBSOIL.

67 MANUFACTURED TRUSSES, BEAMS, & OTHER ENGINEERED BUILDING SYSTEMS MUST BE DESIGNED BY THE MANUFACTURER'S ENGINEER, WHO SHALL BE REGISTERED IN THE STATE OF TENNESSEE; STAMPED, APPROVED SHOP DRAWINGS SHALL BE ON-SITE BEFORE ERECTION BEGINS.

FACILITY & CODE COMPLIANCE INFORMATION

PARCEL DESCRIPTION Parcel ID: 060 | 360| + 060 084 (to be one-lotted) PROPERTY ZONE CB - Business \$ Manufacturing Zone (Knox County) PROPERTY SIZE +/- 5.21 acres (+/-53% building coverage)

BUILDING SQUARE FOOTAGE Office Building / Living Unit = 1,610 sq. ft. 56,700 sq. ft. Storage Building | = -

1,950 sq. ft. Storage Building 3 = RV/Boat Storage = 8,280 sq. ft.

FLOOR LEVELS Office Building: One Storage Buildings: One

CONSTRUCTION CLASSIFICATION Office Building: IBC Type VB 9,000 sq. ft. (allowable) Storage Buildings: IBC Type IIB 17,500 sq. ft. (allowable) for individual storage buildings, IBC 2018 Section 506.2.1 Aa = At + (NSxIf) where If = [F/P-0.25] W/30

<u>Building l</u> Ārea I.A = 11,550 sq. ft. If = [325/430-0.25] 30/30 = 0.51 Aa = 17,500 + (17500x0.51) = 26,425 sq. ft. (allowable) Area I.B = 23,100 sq. ft.

If = [440/650-0.25] 30/30 = 0.43 Aa = 17,500 + (17500x0.43) =25,025 sq. ft. (allowable) Area I.C = 22,050 sq. ft. If = [525/630-0.25] 30/30 = 0.58

Aa = 17,500 + (17500x0.58) = 27,650 sq. ft. (allowable) Area 2.A = 11,050 sq. ft.

If = [345/430-0.25] 30/30 = 0.55 Aa = 17,500 + (17500x0.55) = 27,125 sq. ft. (allowable) Area 2.B = 23,200 sq. ft.

If = [605/690-0.25] 30/30 = 0.63 Aa = 17,500 + (17500x0.63) = 28,525 sq. ft. (allowable)

OCCUPANCY CLASSIFICATION Storage S-1 ACCESSORY OCCUPANCY Office / Residence - B / R3

EMERGENCY ILLUMINATION

TOILET REQUIREMENTS

H.C. STORAGE UNIT REQUIREMENTS

OCCUPANT LOAD Office: 847 sf / 100 = 8.47 occs

Residence: 760 sf / 200 = 3.8 occs

Storage: Building | Area I.A | 11,550 sf / 500 = 23.1 occs Area I.B 23,100 sf / 500 = 46.2 occs Area I.C 22,050 sf / 500 = 44.1 occs Building 2 Area 2.A 11,050 sf / 500 = 22.1 occs Area 2.B 23,200 sf / 500 = 46.4 occs Building 3 1,950 sf / 500 = 3.9 occs

RV/Boat 8,280 sf / 500 = 16.56 occs

RATED WALLS In Storage buildings: 3-hour fire rated Fire Barrier walls (fire areas less than 12,000 sf) + 3-hour fire rated Fire Wall (building areas less than 24,000 sf)

In Office/Residence building: I hour fire rated separation wall DETECTION & ALARM SYSTEMS Hardwire smoke/carbon monoxide detectors at all gas equipment

MAX. TRAVEL DISTANCE TO EXITS Allowed: 200' maximum Provided: 112'-6" (max) FIRE EXTINGUISHERS Yes - 5 lb A, 10 lb BC

> Required: I toilet room + I service sink + I drinking fountain Provided: 2 toilet rooms (unisex) + mopsink + 2 drinking fountain

PARKING REQUIREMENTS Required: $5 + [364 \text{ (interior units)} \times 0.020] = 5 + 7 = 12 \text{ (I h.c. required)}$ Provided: | | + | handicap = |2 total

> Proposed number of units (building 1 + building 2): 364 (interior) + 199 (exterior) = 563 units 5% of units required = $563 \times 0.05 = 28$ h.c. units

DRAWING INDEX

Project Information G001 Site Plan, Notes & Details G002 G003 Landscape Plan

Office/Residence Building Plans & Elevations

Storage & RV Buildings Élevations

Civil drawing package

OT

ELIMIN,

PROJECT INFORMATION

PROJECT: 18155

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BUILDING 2 - AREA 2.A

APPROXIMATE

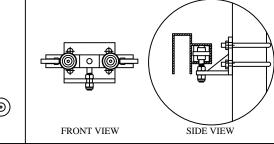
BUFFER

LANDSCAPE & FENCE

SETBACK

(AT RESIDENTIAL)

BULDING 2 - AREA 2.B



FEI 6'-0" CHAIN LINK FENCE WITH OPAQUE STRIPS, OR EQUAL OPAQUE PRODUCT AT ADJACENT

FE2 ROLLING OR SWING GATE SHALL BE 6'-O" TALL (PICKETS AT 4" O.C.). FENCE AGAINST COMMERCIAL PROPERTY

SPI BOUNDARY INFORMATION, TOPOGRAPHIC INFORMATION, & OTHER SITE INFORMATION IS TAKEN FROM KNOX COUNTY G.I.S. MAPS, BOUNDARY SURVEY BY Romans Engineering, & OTHER DOCUMENTS PROVIDED BY THE OWNER.

SP3 ALL GROUND DISTURBED BY CONSTRUCTION SHALL BE REPAIRED/REPLACED WITH TOPSOIL; THIS SHALL BE GRADED, RAKED, SEEDED, MULCHED, & WATERED PER SPECIFICATIONS, UNLESS OTHER LANDSCAPING IS

<u>SP4</u> BUILDING SHALL CONNECT TO SEWER AT MANHOLE OR TAP; CONNECTION

SP5 PARKING LOT PAVEMENT SHALL BE BITUMINOUS PAVING, THICKNESS AS NOTED ON DRAWINGS, WITH 8" MACHINE-FORMED CONCRETE CURBS; SIDEWALKS PAD TO BE CONCRETE, THICKNESS AS NOTED ON DRAWINGS.

<u>SP6</u> IN ALL AREAS, PROVIDE POSITIVE DRAINAGE; SLOPE GRADE AWAY FROM BUILDINGS; MAINTAIN & EXTEND EXISTING SWALES; PROVIDE FRENCH DRAIN TO GRADE WHERE SURFACE SLOPE DOES NOT PROVIDE ADEQUATE

SP8 PUBLIC WALKS CONNECTING PRIMARY ENTRANCES SHALL BE HANDICAP

ACCESSIBLE, WITH A MINIMUM CLEAR WIDTH OF 48 INCHES; SLOPE OF ACCESSIBLE MALKS SHALL NOT EXCEED 1:20 (1" RISE OVER 20" RUN); WHERE HANDRAILS ARE PROVIDED, SLOPE SHALL NOT EXCEED 1:12; CURB CUTS & CURB

CHARACTER & COLOR OF THE BUILDING; THIS SIGN SHALL BE EITHER INTERNALLY-LIT, OR ILLUMINATED BY GROUND-MOUNTED FLOODLIGHTS, & SET

SIGNS AT LEAST 100' APART - (2) 10' POLE GROUND SIGNS AT ROAD FRONTAGE AS INDICATED. EACH GROUND SIGN SHALL BE NO GREATER THAN 450 SQ FT. THERE SHALL BE SIGNAGE ON THE BUILDING NOT EXCEEDING 66 SQ FT.

SPIO BUILDING ENTRANCE, ACCESSIBLE PARKING SPACE, & ADJACENT

<u>SPII</u> ALL TREES RETAINED OR PROVIDED TO MEET THE REQUIREMENTS OF KNOX COUNTY SHALL BE PROPERLY MAINTAINED TO ENSURE THEIR SURVIVAL FOR A PERIOD OF AT LEAST EIGHTEEN (18) MONTHS FROM THE DATE OF COMPLETED CONSTRUCTION, FINAL PLAT APPROVAL, OR PLANTING, AS SPECIFIED BY THE CONTRACT. ANY TREE WHICH FAILS TO SURVIVE EIGHTEEN (18) MONTHS SHALL BE REPLACED WITHIN TWELVE (12) MONTHS OF LOSS.

SP12 MAXIMUM STORAGE UNIT IS 600 SQ. FT.

<u>SPI5</u> TYPICAL HANDICAP ACCESSIBLE EXIT.

<u>SP16</u> PUBLIC ENTRANCES VESTIBULE - HANDICAP ACCESSIBLE.

SP17 PER KNOX COUNTY CODE OF ORDINANCES - SECTION 4.93 - ABOUT OUTDOOR LIGHTING:

ALL OUTDOOR LIGHTS SHALL BE SHIELDED TO DIRECT LIGHT AND GLARE ONLY ONTO THE SELF-SERVICE STORAGE PREMISES AND MAY BE OF SUFFICIENT INTENSITY TO DISCOURAGE VANDALISM AND THEFT. SAID LIGHTING AND GLARE SHALL BE DEFLECTED, SHADED, AND FOCUSED AWAY FROM ALL ADJOINING PROPERTY.

SP18 BUILDING SETBACKS: FRONT ON HIGHWAY = 20' SIDE = NONE EXCEPT 5' FOR RESIDENTIAL

REAR = 16'

SP19 LANDSCAPE SETBACK:

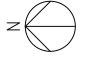
SP20 ACCESS EASEMENT SHALL BE CHANGED TO WORK OUT WITH NEW

5'-0" AGAINST RESIDENTIAL ZONE

PROPOSED LAYOUT.

<u>SP2|</u> IN SOME CASES - RETAINING WALLS MAY BE SHIFTED FURTHER BACK ON SITE IN FINAL CONSTRUCTION DOCUMENTS.

SCALE: 1" = 40'-0"





SITE PLAN, NOTES & DETAILS

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PROJECT: 18155



5'-0" SETBACK

BUFFER

TAMIXOA99A "O-'41

BONE #

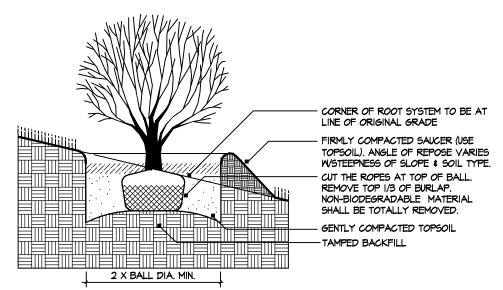
LANDSCAPE

"O−,⊊

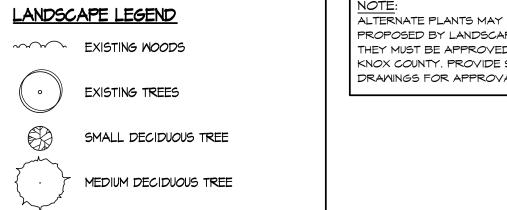
BUILDING I - AREA I.C

SITE PLAN

G002 SCALE: 1" = 40'-0"



SHRUB PLANTING (ON SLOPE) DTL SCALE: NOT TO SCALE



ALTERNATE PLANTS MAY BE

PROPOSED BY LANDSCAPER THEY MUST BE APPROVED BY KNOX COUNTY. PROVIDE SHOP DRAWINGS FOR APPROVAL.

Ø

RELIMINARY

EVERGREEN BUSH

LARGE DECIDUOUS TREE

MEDIUM EVERGREEN

LANDSCAPE AREA (perennials per owner, ground cover, vines, small bushes, trees, or grass - as indicated) LANDSCAPE KEY

LANDSCAPE PLANTS LEGEND

A LARGE TREE Red Maple Chestnut Oak MEDIUM TREE

Colorado Blue Spruce (buffer) Lace Bark Elm SMALL TREE

Japanese Maple Eastern Red Bud Crepe Myrtle Flower Dogwood BUSHES, ETC.

Emily Bruner Holly (screen/buffer) Virginia Sweetspire Barberry

Crimson Pygmy Dwarf Yaupon Holly PLANTING BEDS

Mondo Grass, Ophiopogon Juniper Bar Harbor Juniperus Wiltonii Vinca Minor

LANDSCAPE NOTES

LSI AT SIDES WHERE ADJACENT TO RESIDENTIAL ZONES, & AT FRONT ALONG HIGHMAY - PROVIDE LANDSCAPE BUFFER WITH: I EVERGREEN TREE EVERY 40' -ALTERNATE 20' O.C. (MAX)

> I DECIDUOUS TREE EVERY 40' - ALTERNATE 20' O.C. (MAX) 3 SHRUBS (2 EVERGREEN) IN BETWEEN EVERY 20'

LS2 BETWEEN PARKING LOT & MIXED USE NON-RESIDENTIAL ZONES, PROVIDE PERIMETER SCREENING OF CONTINUOUS LANDSCAPE (50% EVERGREEN SHRUBS).

LS3 PARKING LOT ISLANDS SHALL BE MINIMUM OF 120 SQ. FT. PERVIOUS PLANTED AREA WITH (I) DECIDUOUS TREE, MINIMUM 2" CALIPER & 8'-0" TALL. AREA SHALL BE PLANTED WITH VINES, SHRUBS, GRASS, OR GROUND COVER.

LS4 PRESERVE EXISTING TREES WHERE FEASIBLE. PROVIDE PROTECTIVE BARRIER FOR PRESERVED TREES.

<u>LS5</u> N/A

<u>LS6</u> N/A

LANDSCAPE PLAN

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G003

SCALE: 1" = 40'-0"





DRAWN:

EXISTING SITE

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ROMANS Engineering

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PRELIMINARY

POWER POLE

GUY WIRE WATER METER GAS METER

4. PROPERTY SUBJECT TO A 10' DRAINAGE EASEMENT INSIDE ALL EXTERIOR LOT LINES AND ALONG ALL ROADS AND

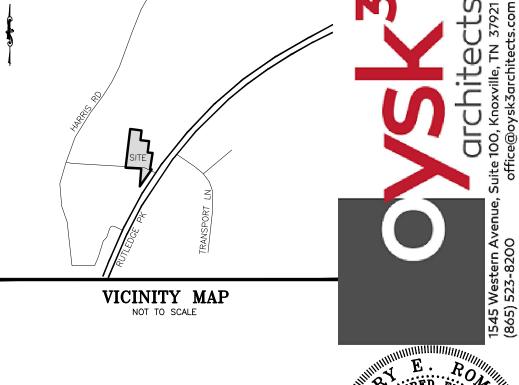
5' ALONG BOTH SIDES OF ALL INTERIOR LOT LINES.

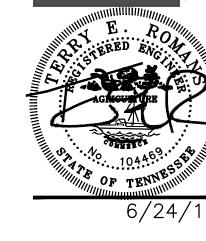


SCALE: 1 INCH = 40 FEET

ALL EXTERIOR LOT LINES AND ALONG ALL ROADS AND

5' ALONG BOTH SIDES OF ALL INTERIOR LOT LINES.





PRELIMINARY - NOT FOR CONSTRUCTION Autledge Pike Mini Storage

MARK DATE ISSUE FOR:

. 06/24/19 Preliminary Meeting

ROMANS
Engineerin

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HORIZONTAL SCALE : 1 INCH = 40 FEET VERTICAL SCALE : 1 INCH = 10 FEET

GRADING PLAN

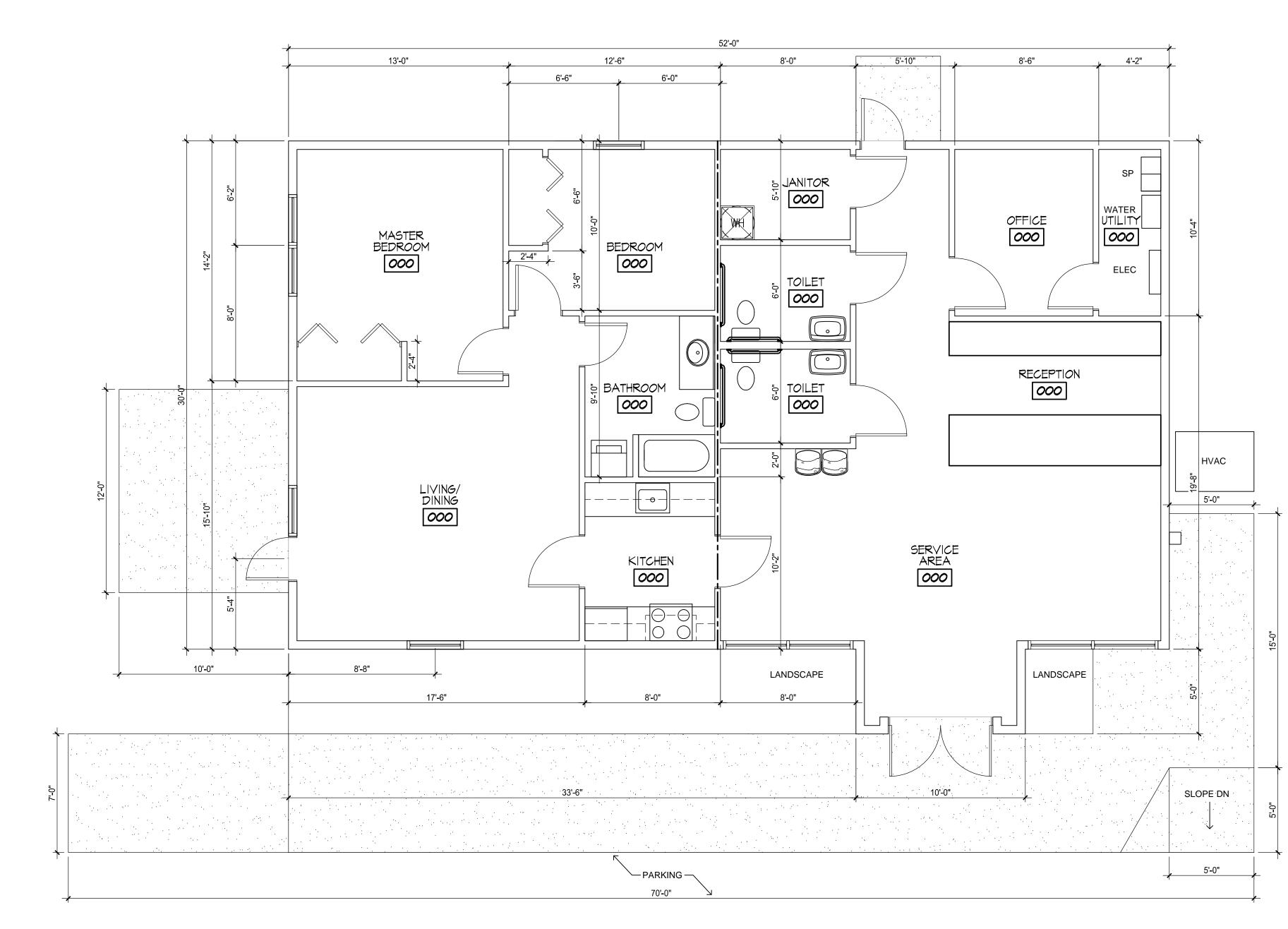


DRAWN: KTJ/GA

OFFICE BUILDING PLANS & ELEVATIONS

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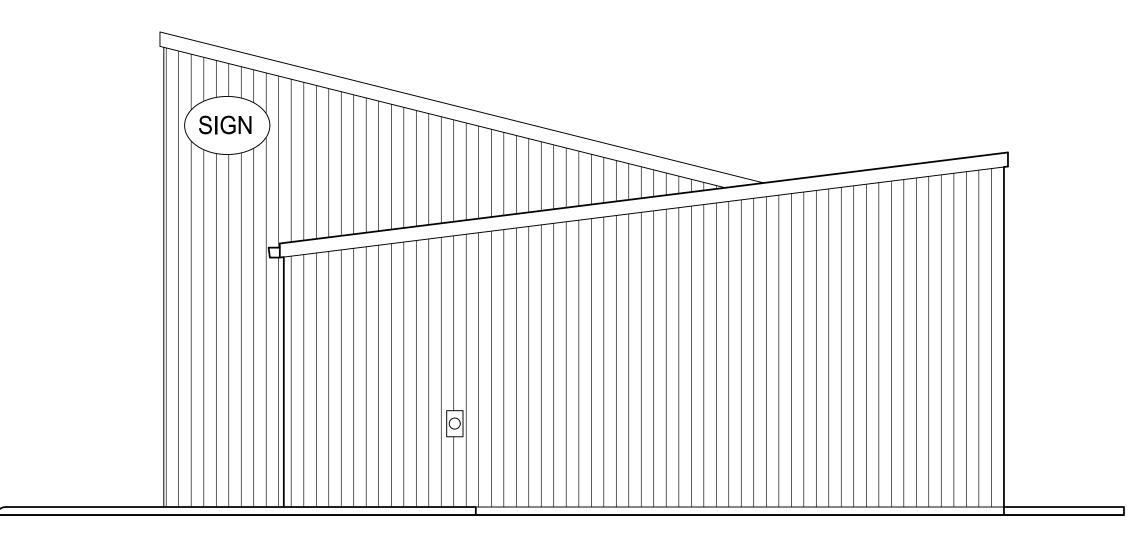
A101 PROJECT: 18155



RESIDENCE/ OFFICE PLAN

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





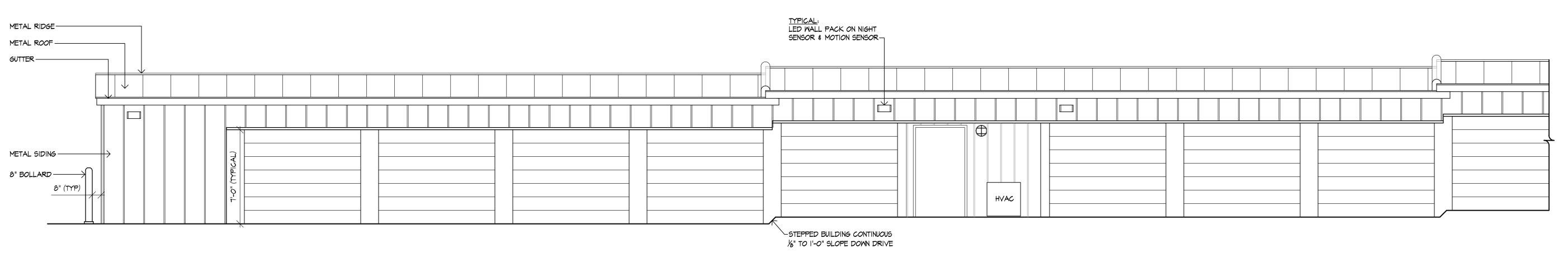
PRONT ELEVATION

Aloi Scale: 1/4" = 1'-0"

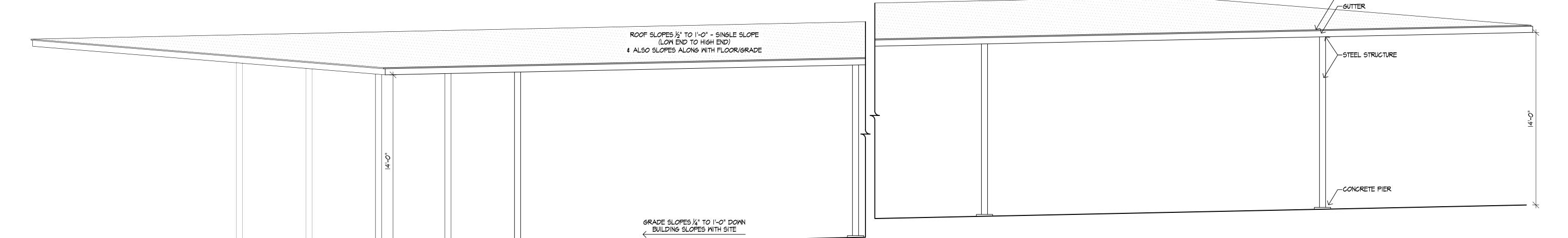
3 RIGHT ELEVATION

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

Storage Building - End View
A203 SCALE: 1/4" = 1'-0"



Storage Building - Side View
A207 SCALE: 1/4" = 1'-0"



Boat and RV Storage
A207 SCALE: 1/4" = 1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION edge Pike Mini Storage

- KNOXVILLE, TN 37924

ISSUE FOR:

| Rutledge Pike

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. 06/24/19 Use on Review

STORAGE BUILDINGS & RV/BOAT BUILDING ELEVATIONS

A202
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