### SURVEY INFORMATION:

HORIZONTAL DATUM - BASIS OF BEARINGS: HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83/91 PER CITY OF LACEY DATUM. THE SOUTH QUARTER CORNER OF THE SUBJECT SECTION, CITY POINT NO. 112, WAS HELD FOR POSITION AND A LINE BETWEEN SAID POINT AND THE NORTH QUARTER CORNER OF THE SUBJECT SECTION, CITY POINT NO. 129, WAS HELD FOR BEARING, BEING N1°54'52"E.

VERTICAL DATUM: VERTICAL DATUM FOR THIS SURVEY IS NGVD 29. SITE BENCHMARK: WSDOT MONUMENT "GP34510-57" PUBLISHED ELEVATION: 206.112 FEET, NAVD 88 CONVERTED TO NGVD 29 ELEVATION USING THE NGS COORDINATE CONVERSION AND TRANSFORMATION TOOL (NCAT). NCAT CONVERSION FACTOR: -3.389 FEET (NAVD 88 TO NGVD 29) NGVD 29 ELEVATION: 202.723 FEET

BENCHMARK DESCRIPTION: FOUND 3" DOMED BRASS DISK WITH TRIANGLE PUNCH MARK, STAMPED "GP34510-57," IN ISLAND AT SW CORNER OF INTERSECTION OF MARVIN RD. & MARVIN WAY. SHOWN HEREON.

LOT AREA:  $36,721 \pm S.F. (0.843 \pm AC.)$ 

ADDRESS: 1105 MARVIN RD. NE, LACEY, WASHINGTON

TAX PARCEL NUMBER: 65420000300

DATE OF SURVEY:

THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON DECEMBER 5, 2022 ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN NOVEMBER OF 2022.

FLOOD INFORMATION: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INFORMATION: FLOOD INSURANCE RATE MAP (FIRM) NO. 53067C0192E, PANEL 192 OF 625, DATED OCTOBER 16, 2012. THE SUBJECT PROPERTY IS IN ZONE X (UNSHADED), AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

LEGAL DESCRIPTION:

(PER ABOVE TITLE REPORT REFERENCED HEREON)

LOT 3, NORTH THURSTON COMMERCIAL PARK, AS PER PLAT RECORDED IN VOLUME 19 OF PLATS, PAGE 99, RECORDS OF THURSTON COUNTY, WASHINGTON; EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF WASHINGTON BY DEED RECORDED FEBRUARY 1, 2002 UNDER RECORDING NO. 3409776.

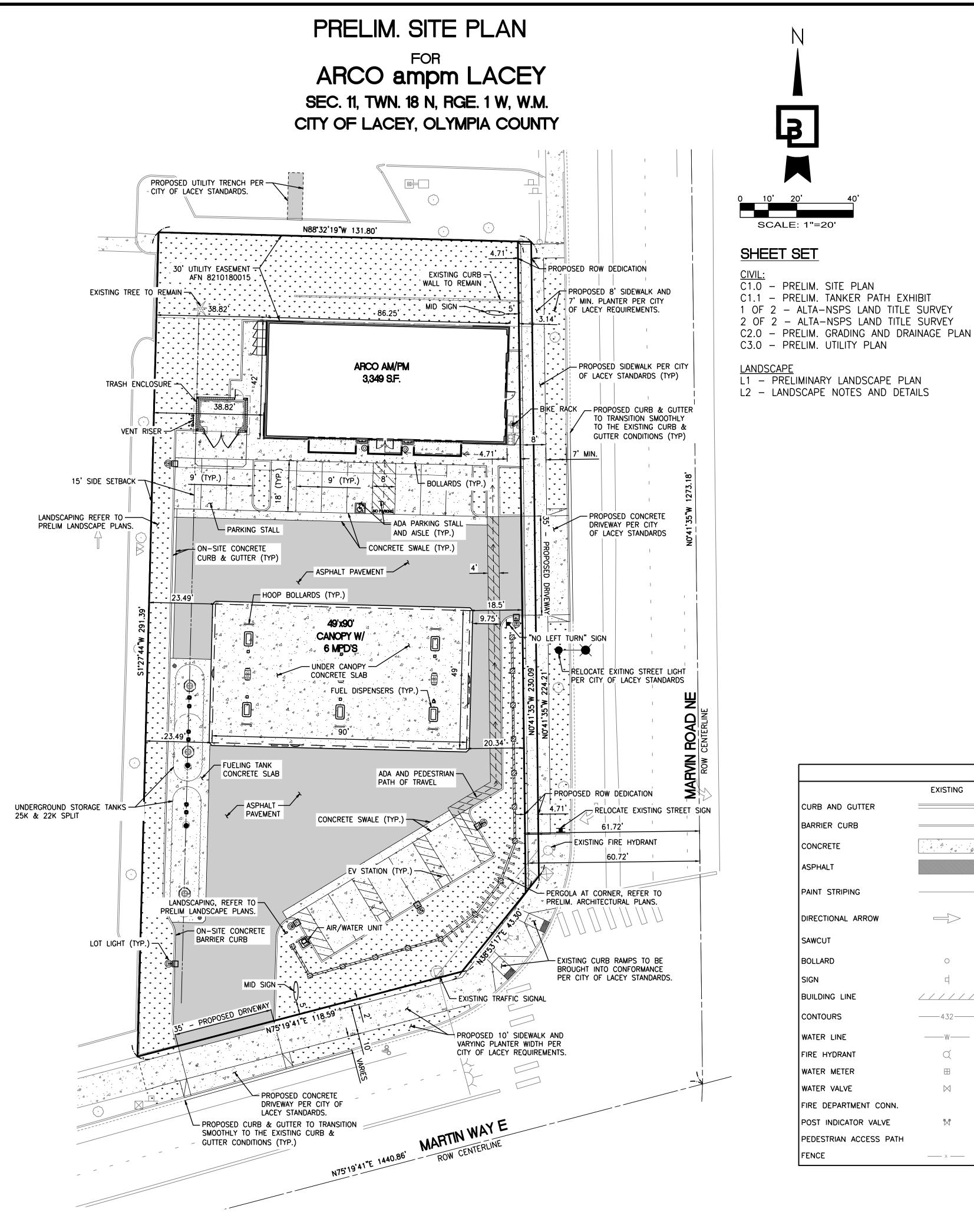
SITUATE IN THE CITY OF LACEY, COUNTY OF THURSTON, STATE OF WASHINGTON.

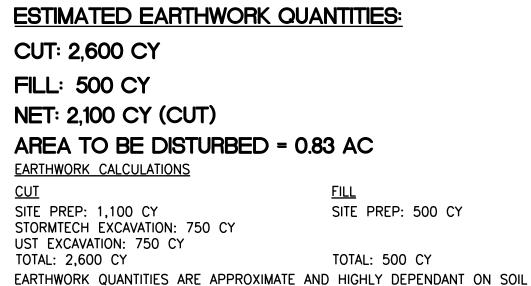
### EXISTING GROUND COVER:

ON-SITE	
EXISTING IMPERVIOUS SURFACES	28,497 SF (0.65 AC)
EXISTING LANDSCAPING	8,224 SF (0.19 AC)
TOTAL AREA	36,721± SF (0.84 AC)
RIGHT-OF-WAY	
EXISTING IMPERVIOUS SURFACES	4,753 SF (0.11 AC)
EXISTING LANDSCAPE	704 SF (0.02 AC)
TOTAL AREA	5,457 SF (0.13 AC)

#### PROPOSED GROUND COVER:

ON-SITE	
NEW AND REPLACED IMPERVIOUS SURFACES	25,631 SF (0.59 AC)
ROOF/CANOPY SURFACE	8,510 SF (0.20 AC)
PAVEMENT/CURB/WALKWAYS	17,121 SF (0.39 AC)
PROPOSED LANDSCAPING	10,020 SF (0.23 AC)
TOTAL AREA	35,651 SF (0.82 AC)
RIGHT-OF-WAY	
NEW AND REPLACED IMPERVIOUS SURFACE	4,639 SF (0.11 AC)
ROADWAY/SIDEWALK/CURB & GUTTER	4,639 SF (0.11 AC)
ROADWAY/SIDEWALK/CURB & GUTTER <u>PROPOSED_LANDSCAPING</u>	4,639 SF (0.11 AC) <u>1,888 SF (0.04 AC)</u>



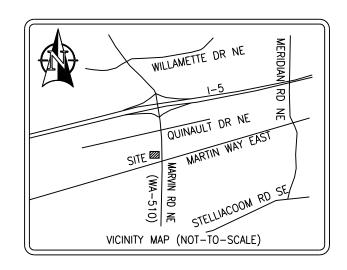


CONDITIONS ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR SHOULD PERFORM INDEPENDENT ESTIMATE FOR BIDDING.



Know what's **below**. **Call** before you dig. **Dial 811** 

# **Preliminary Not For Construction**



### APPLICANT/DEVELOPER

BP FUELS, NA P.O. BOX 696049 SAN ANTONIO, TX 78269-9931 CONTACT: RANDALL ARNOLD

### ENGINEE<u>R/SURVEYOR</u>

BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT, WA 98032 TEL: (425) 251-6222 FAX: (425) 251-8782 CONTACT: ALEX WHITE, P.E./MARK W DUFFNER, P.L.S.

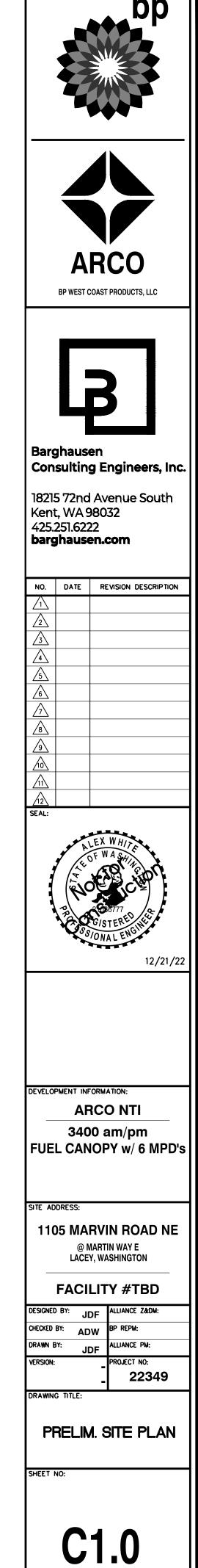
#### ARCHITECT

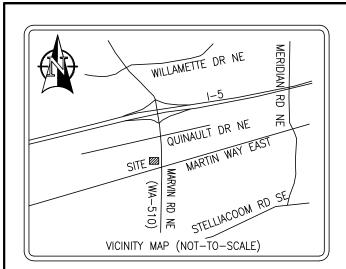
BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT, WA 98032 TEL: (425) 251-6222 FAX: (425) 251-8782 CONTACT: DAN GOALWIN

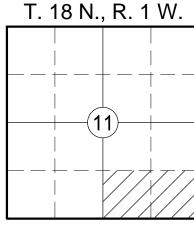
#### LANDSCAPE ARCHITECT

BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT, WA 98032 TEL: (425) 251-6222 FAX: (425) 251-8782 CONTACT: JEFF VARLEY, R.L.A.

		LEGEND			
	EXISTING	PROPOSED		EXISTING	PROPOSED
			STORM LINE	SD	
			CATCH BASIN TYPE 1		•
			CATCH BASIN TYPE 2		
			SANITARY SEWER LINE	SS SS	
			SANITARY SEWER MANHOLE	$\bigcirc$	•
		$\rightarrow$	CLEANOUT (AS NOTED)	0	•
			POWER OVERHEAD	——Р (ОН)——	———Р(ОН)——
	0	•	POWER UNDERGROUND	——————————————————————————————————————	P(UG)
	Ц	•	POWER METER	٠	
			UTILITY POLE	-0-	-
	432		JUNCTION BOX (TYPE 1,2,3)		
	W	w	LUMINAIRE	$\rightarrow \rightarrow \propto$	<b>←</b> →
	Q	€	YARD LIGHT		
		8	TELEPHONE	T(UG)	T
	$\bowtie$	M	GAS	G	G
DNN.		$\prec$	GAS METER	O	
/E		$\mathbf{\Theta}$	GAS VALVE	Se S	Η







SECTION INDEX

#### SURVEY INFORMATION

HORIZONTAL DATUM - BASIS OF BEARINGS: HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83/91 PER CITY OF LACEY DATUM. THE SOUTH QUARTER CORNER OF THE SUBJECT SECTION, CITY POINT NO. 112, WAS HELD FOR POSITION AND A LINE BETWEEN SAID POINT AND THE NORTH QUARTER CORNER OF THE SUBJECT SECTION, CITY POINT NO. 129, WAS HELD FOR BEARING, BEING N1°54'52"E.

#### VERTICAL DATUM:

VERTICAL DATUM FOR THIS SURVEY IS NGVD 29. SITE BENCHMARK: WSDOT MONUMENT "GP34510-57"

PUBLISHED ELEVATION: 206.112 FEET, NAVD 88 CONVERTED TO NGVD 29 ELEVATION USING THE NGS COORDINATE CONVERSION AND TRANSFORMATION TOOL (NCAT). NCAT CONVERSION FACTOR: -3.389 FEFT (NAVD 88 TO NGVD 29) NGVD 29 ELEVATION: 202.723 FEET

BENCHMARK DESCRIPTION: FOUND 3" DOMED BRASS DISK WITH TRIANGLE PUNCH MARK, STAMPED "GP34510-57," IN ISLAND AT SW CORNER OF INTERSECTION OF MARVIN RD. & MARVIN WAY. SHOWN HEREON.

LOT AREA:  $36,721 \pm S.F. (0.843 \pm AC.)$ 

ADDRESS: 1105 MARVIN RD. NE, LACEY, WASHINGTON

TAX PARCEL NUMBER:

#### 65420000300

DATE OF SURVEY:

THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON DECEMBER 5, 2022 ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN NOVEMBER OF 2022.

FLOOD INFORMATION: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INFORMATION: FLOOD INSURANCE RATE MAP (FIRM) NO. 53067C0192E, PANEL 192 OF 625, DATED OCTOBER 16, 2012. THE SUBJECT PROPERTY IS IN ZONE X (UNSHADED), AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

#### SURVEYOR'S NOTES:

- ALL DISTANCES SHOWN HEREON ARE GROUND MEASUREMENTS IN U.S. SURVEY FEET.
- THE BOUNDARY CORNERS AND LINES DEPICTED ON THIS MAP REPRESENT DEED LINES ONLY. AND DON'T PURPORT TO SHOW OWNERSHIP LINES THAT MAY OTHERWISE BE DETERMINED BY A COURT OF LAW. NO GUARANTEE OF OWNERSHIP IS EXPRESSED OR IMPLIED
- THE LEGAL DESCRIPTION AND SPECIAL EXCEPTIONS SHOWN HEREON ARE PER THE TITLE REPORT REFERENCED HEREON UNLESS OTHERWISE NOTED.
- THE RECORD DESCRIPTION FOR THE SUBJECT PROPERTY MATHEMATICALLY CLOSES.

OF BARGHAUSEN CONSULTING ENGINEERS, INC.

- THIS SURVEY HAS DEPICTED ALL VISIBLE OCCUPATIONAL INDICATORS (IE. FENCE LINES, BUILDINGS, WALLS, ETC. – SEE MAP FOR PARTICULARS) PER W.A.C. 332–130. LINES OF OCCUPATION, AS DEPICTED, MAY INDICATE AREAS OF POTENTIAL CLAIMS OF UNWRITTEN OWNERSHIP. THIS SURVEY HAS ONLY DEPICTED THE RELATIONSHIP BETWEEN LINES OF OCCUPATION AND DEEDED LINES OF RECORD. NO RESOLUTION OF OWNERSHIP BASED ON UNWRITTEN RIGHTS HAS BEEN MADE BY THIS SURVEY OR BY ANY PERSONNEL
- THIS IS A FIELD TRAVERSE SURVEY. A TRIMBLE R12i GPS AND A TRIMBLE S-7 ROBOTIC TOTAL STATION (TRIMBLE TSC7 DATA COLLECTOR) WERE USED TO MEASURE THE ANGULAR AND DISTANCE RELATIONSHIPS BETWEEN THE CONTROLLING MONUMENTATION AS SHOWN. CLOSURE RATIOS OF THE TRAVERSE MET OR EXCEEDED THOSE SPECIFIED IN W.A.C. 332-130-090. ALL INSTRUMENTS AND EQUIPMENT HAVE BEEN MAINTAINED IN ADJUSTMENT ACCORDING TO MANUFACTURERS' SPECIFICATIONS AND USED BY APPROPRIATELY TRAINED PERSONNEL.
- THIS SURVEY MEETS OR EXCEEDS THE "RELATIVE POSITIONAL PRECISION" REQUIREMENTS SET FORTH IN THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS IN SECTION 3(E).
- ELEMENTS AND FEATURES DEPICTED HEREON SATISFY THE REQUIREMENTS STATED WITHIN W.A.C. 332-130-145 FOR TOPOGRAPHIC MAPS, INCLUDING THE FOLLOWING: THE SOURCE OF THE CONTOURS SHOWN HEREON ARE BASED UPON DIRECT FIELD OBSERVATIONS. THE CONTOUR ACCURACY IS PER NATIONAL MAPPING STANDARDS, ONE HALF OF THE CONTOUR INTERVAL (0.5'). THE PURPOSE OF THIS SURVEY IS TO MAP THE CURRENT CONDITIONS FOR DILIGENCE AND FOR ENGINEERING DESIGN.
- UNDERGROUND UTILITIES AND FEATURES DEPICTED HEREON ARE BASED ON FIELD OBSERVATION, MARKINGS, DEVELOPMENT PLANS, AND/OR AVAILABLE RECORD DOCUMENTS ONLY. THE TRUE LOCATION, NATURE AND/OR EXISTENCE OF BELOW GROUND FEATURES, DETECTED OR UNDETECTED, SHOULD BE VERIFIED.
- NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WAS OBSERVED IN THE PROCESS OF CONDUCTING SURVEY FIELD WORK.
- NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS WAS OBSERVED IN THE PROCESS OF CONDUCTING SURVEY FIELD WORK.

#### TITLE REPORT

ALL TITLE INFORMATION SHOWN ON THIS MAP HAS BEEN EXTRACTED FROM STEWART TITLE GUARANTY COMPANY ALTA COMMITMENT NO.22000200823 DATED OCTOBER 18, 2022 AT 8:00AM, INCLUDING APPURTENANT EASEMENTS AND ADJOINING DEEDS FOR UNPLATTED LOTS, IF ANY. IN PREPARING THIS MAP, BARGHAUSEN CONSULTING ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS BARGHAUSEN CONSULTING ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND DISCLOSED BY SAID COMMITMENT. BARGHAUSEN CONSULTING ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPRESENTATIONS OF THE TITLE'S CONDITION TO PREPARE THIS SURVEY AND THEREFORE BARGHAUSEN CONSULTING ENGINEERS, INC. QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.

#### LEGAL DESCRIPTION:

(PER ABOVE TITLE REPORT REFERENCED HEREON)

LOT 3, NORTH THURSTON COMMERCIAL PARK, AS PER PLAT RECORDED IN VOLUME 19 OF PLATS, PAGE 99, RECORDS OF THURSTON COUNTY, WASHINGTON; EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF

WASHINGTON BY DEED RECORDED FEBRUARY 1, 2002 UNDER RECORDING NO. 3409776.

SITUATE IN THE CITY OF LACEY, COUNTY OF THURSTON, STATE OF WASHINGTON.

#### EXCEPTIONS: (PER ABOVE TITLE REPORT REFERENCED HEREON)

ITEMS 1 THROUGH 29 ARE NOT SURVEY RELATED. SEE THE TITLE REPORT FOR DETAILS ON THESE ITEMS.

30. EXCEPTIONS AND RESERVATIONS AS CONTAINED IN INSTRUMENT: FROM: NORTHERN PACIFIC RAILWAY COMPANY RECORDING NO.: 64052

NOTE: NO EXAMINATION HAS BEEN MADE TO DETERMINE THE PRESENT RECORD OWNER OF THE ABOVE RIGHTS TO DETERMINE WHICH MAY AFFECT THE LANDS OR RIGHTS SO RESERVED. (NO SURVEYABLE MATTERS.)

31. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: PUGET SOUND POWER & LIGHT COMPANY PURPOSE: ELECTRIC TRANSMISSION AND/OR DISTRIBUTION SYSTEM AFFECTS: REFER TO SAID INSTRUMENT RECORDED: SEPTEMBER 8, 1953

(BLANKET EASEMENT WITH NO DEFINED WIDTH OR LOCATION. IS PRESUMED TO BE CENTERED ON AS-BUILT LOCATION OF PSP&L FACILITIES.)

32. COVENANTS, CONDITIONS AND RESTRICTIONS AND EASEMENTS CONTAINED IN SHORT PLAT: RECORDED: NOVEMBER 16, 1976

RECORDING NO.: 982041 (PERTINENT MATTERS SHOWN HEREON.)

RECORDING NO.: 523991

(PERMIT EXPIRED 1991.)

33. RESTRICTIONS, EASEMENTS, DEDICATIONS, AND DELINEATED MATTERS CONTAINED ON THE FACE OF THE PLAT OF NORTH THURSTON COMMERCIAL PARK RECORDED UNDER THURSTON COUNTY RECORDING NO(S). 1007789, AND ANY AMENDMENTS THERETO. (PERTINENT MATTERS SHOWN HEREON.)

34. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: PURPOSE: INGRESS, EGRESS AND UTILITIES AFFECTS: NORTH 30 FEET RECORDED: OCTOBER 18, 1982 RECORDING NO.: 8210180015 (SHOWN HEREON.)

35. ON-SITE SEWAGE DISPOSAL OPERATIONAL PERMIT AND THE TERMS AND CONDITIONS THEREOF RECORDED: MAY 18, 1987 RECORDING NO.: 8705180101

36. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: STATE OF WASHINGTON PURPOSE: INSTALLATION, MAINTENANCE AND USE OF PERMANENT SIGNALIZATION EQUIPMENT AND ALL NECESSARY APPURTENANCES AFFECTS: REFER TO SAID INSTRUMENT RECORDED: FEBRUARY 1, 2002 RECORDING NO.: 3409777 (SHOWN HEREON.)

37. ACCESS AGREEMENT AND THE TERMS AND CONDITIONS THEREOF: RECORDED: JANUARY 2, 2009 RECORDING NO.: 4052729 (NO SURVEYABLE MATTERS.)

### LEGEND (NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP) SURVEY MONUMENT (AS NOTED)

(R#)

(UG)

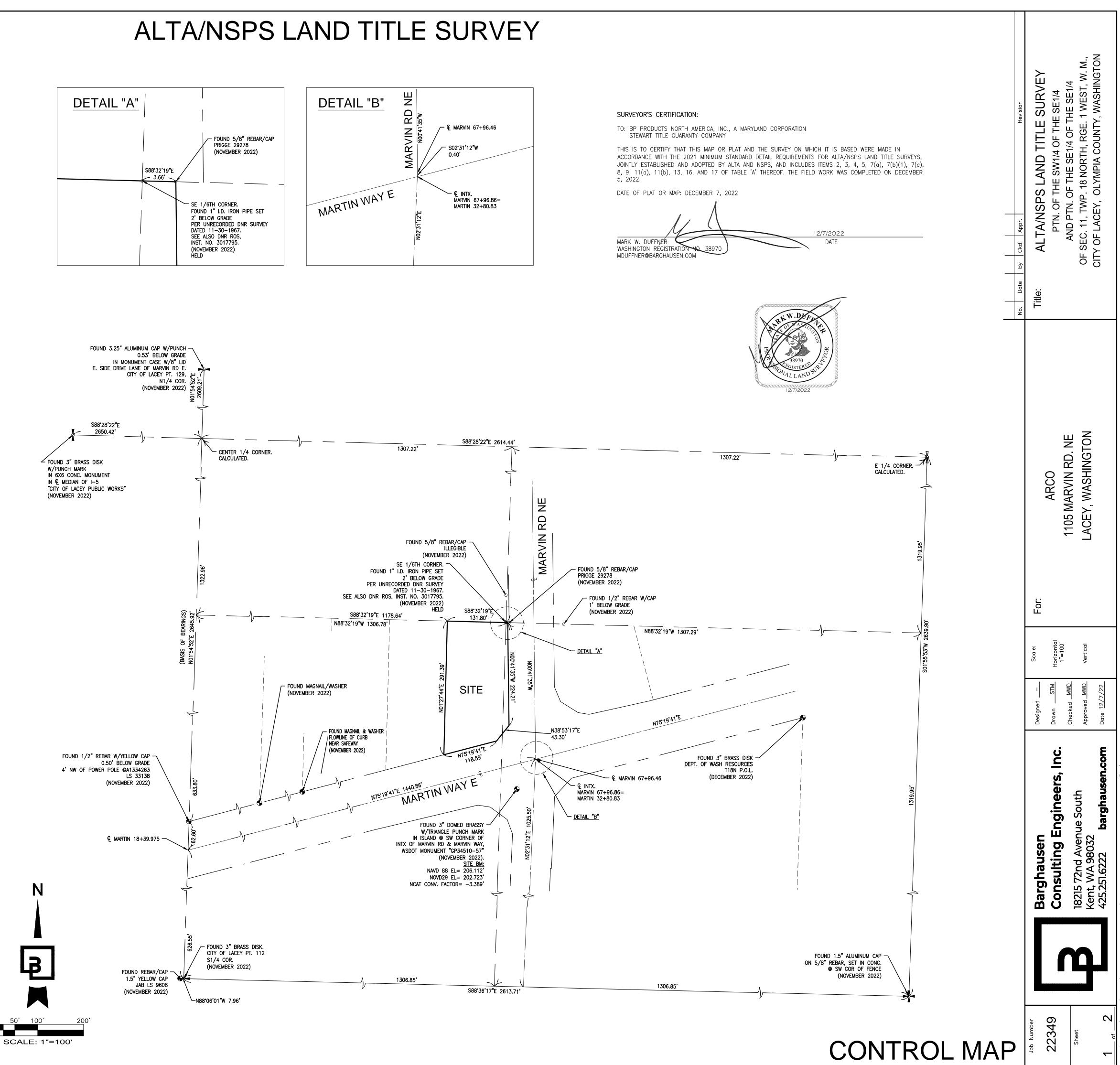
(C)

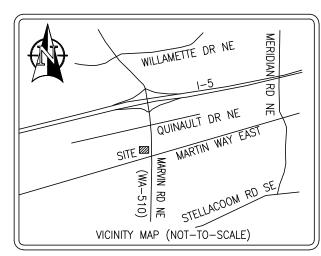
(M)

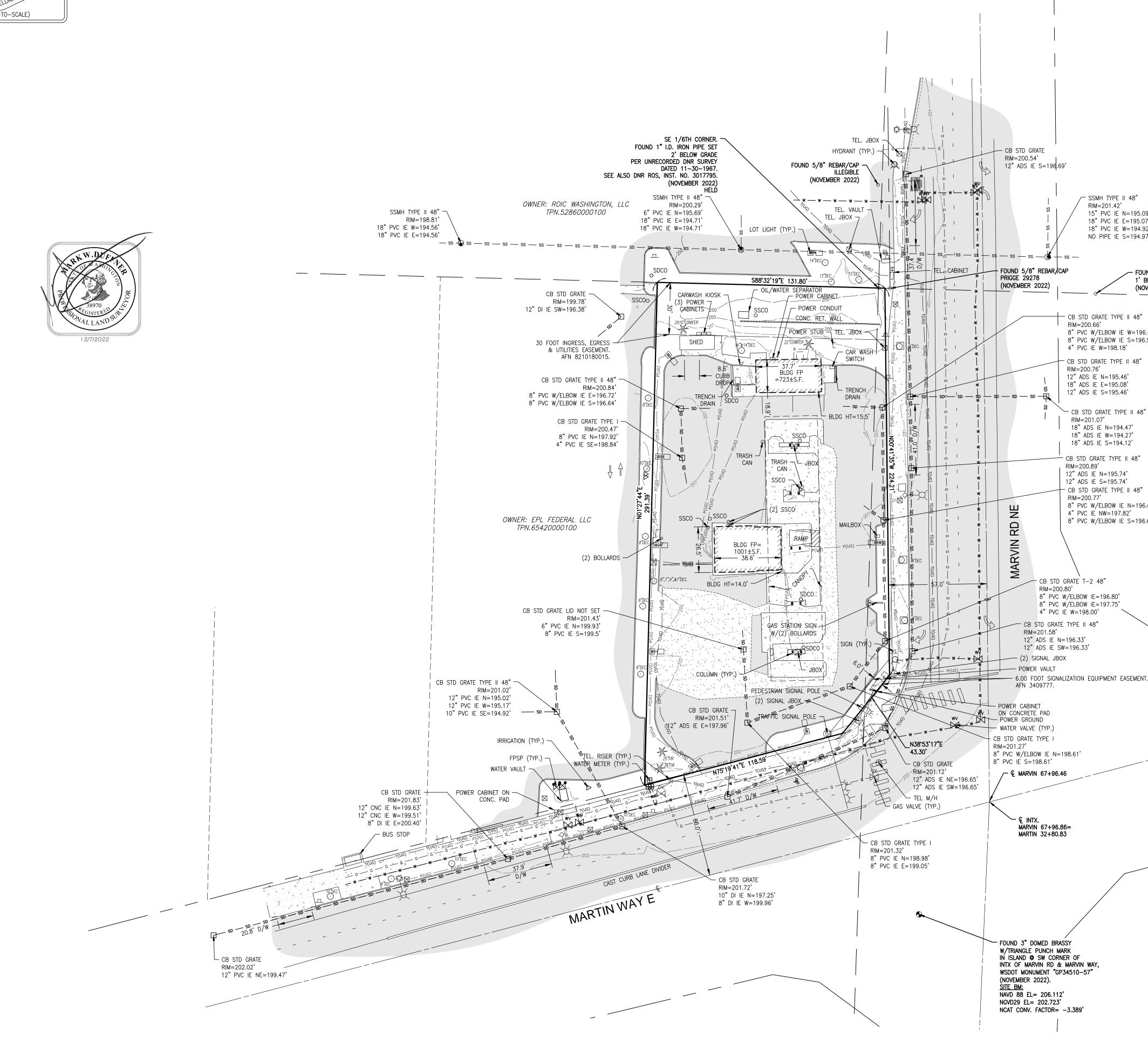
SECTION CORNER (AS NOTED) SET REBAR/CAP (AS NOTED) FOUND REBAR/CAP (AS NOTED) SET 2"X2" HUB/TACK LINE STAKE MAG/WASHER OR LEAD/TACK (AS NOTED) BENCHMARK

ABBREVIATIONS REFERENCE SURVEYS (OH) OVERHEAD UNDERGROUND (TYP) TYPICAL

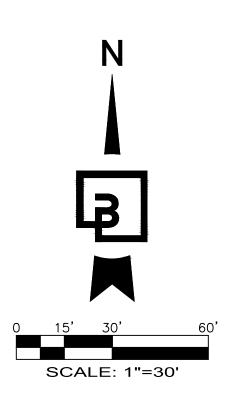
CALCULATED MEASURED







## ALTA/NSPS LAND TITLE SURVEY



∽ SSMH TYPE II 48" RIM=201.42' 15" PVC IE N=195.09' 18" PVC IE E=195.07' 18" PVC IE W=194.92' NO PIPE IE S=194.97'

FOUND 1/2" REBAR W/CAP 1' BELOW GRADE (NOVEMBER 2022)
TYPE II 48"
00W IE W=196.66' 00W IE S=196.56' 198.18'
TYPE II 48"
=195.46' :195.08' :195.46'
E TYPE II 48"
N=194.47' N=194.27' S=194.12'
TYPE    48"
195.74' 195.74' TYPE II 48"
BOW IE N=196.62' =197.82' BOW IE S=196.67'
6.80' 7.75'

LEGEND

 $\phi - \zeta$ Ē+Ó Ø o yy ۲ -0-ΩN  $\triangleright$  $\rightarrow$ G \_\_\_\_ x \_\_\_\_ \_\_\_\_ // \_\_\_\_ \_\_\_\_ 🗆 \_\_\_\_  $---\diamond$  ----— w — w — — G — G — -----STEAM ------\_\_\_\_\_T(XX)\_\_\_\_\_ —\_\_\_P(XX)—\_\_\_ \_\_\_\_\_ SD \_\_\_\_\_ \_\_\_\_\_ SS \_\_\_\_\_  $\sim$ 

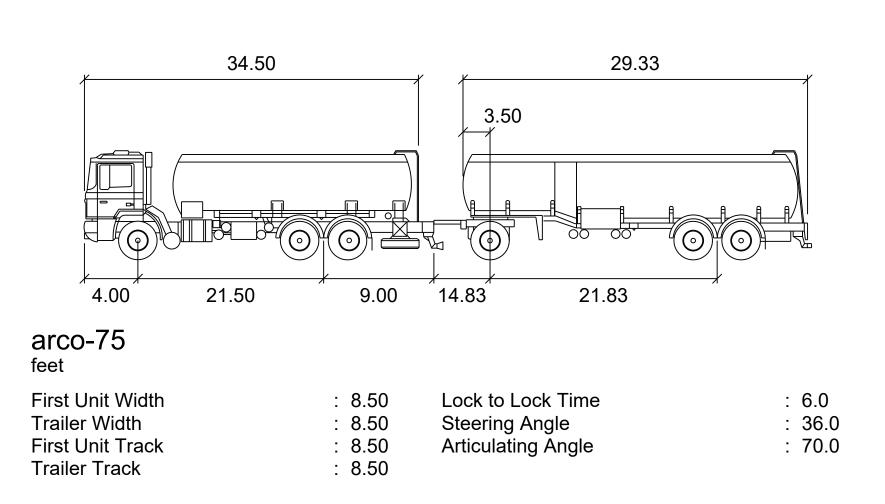
\_\_\_\_\_90\_\_\_\_ \_\_\_\_\_\_92\_\_\_\_\_ \_\_\_\_\_ <u>\_\_\_\_</u> \_\_\_\_\_ 

> (R#) (OH) (UG) (TYP) (C) (M)

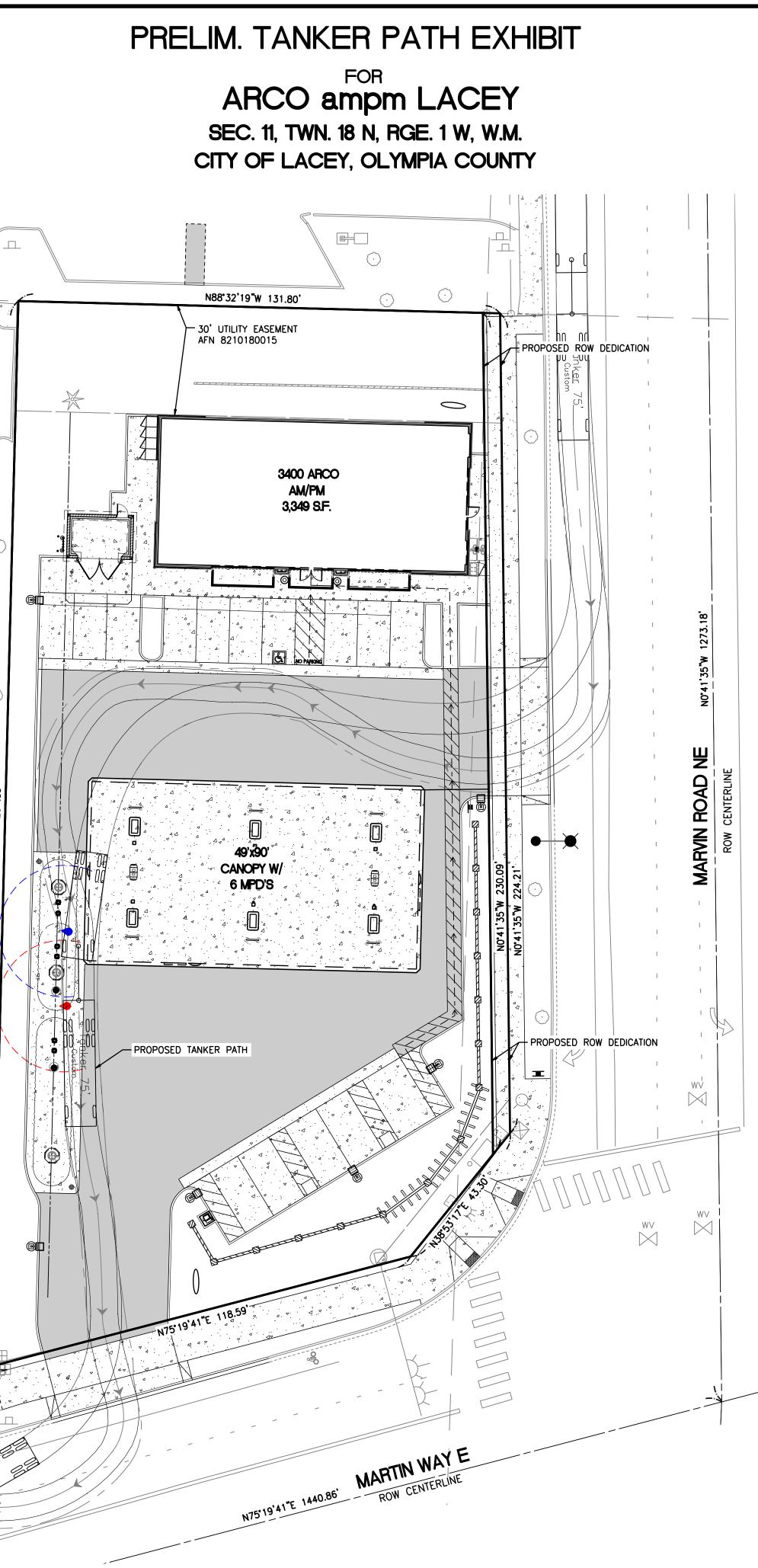
(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP) SURVEY MONUMENT (AS NOTED) SECTION CORNER (AS NOTED) SET REBAR/CAP (AS NOTED) FOUND REBAR/CAP (AS NOTED) SET 2"X2" HUB/TACK LINE STAKE MAG/WASHER OR LEAD/TACK (AS NOTED) BENCHMARK LUMINAIRE (LUM.) YARD LIGHT ORNAMENTAL LIGHT TRAFFIC SIGNAL LIGHTS POWER METER POWER POLE JUNCTION BOX (AS NOTED) TELEPHONE MANHOLE CATCH BASIN (CB) STORM MANHOLE (SDMH) SANITARY SEWER MANHOLE (SSMH) CLEANOUT (AS NOTED) GAS METER GAS VALVE WATER VALVE (WV) FAUCET FIRE HYDRANT(FH) / CONNECTION(FDC) WATER MANHOLE WATER METER BLOW-OFF / AIRVAC MONITOR WELL SIGN IRRIGATION SPRINKLER DIRECTIONAL ARROW ADA SYMBOL CHAIN LINK FENCE WOOD FENCE HOGWIRE FENCE SILT FENCE METAL/IRON FENCE GUARD RAIL/CABLE FENCE WATER LINE GAS LINE STEAM LINE TELEPHONE LINE (OH) OR (UG) POWER LINE (OH) OR (UG) STORM LINE SEWER LINE ROCKERY KEYSTONE WALL DECIDUOUS TREE CONIFEROUS TREE MAJOR CONTOUR LINE MINOR CONTOUR LINE CONCRETE GRAVEL/SAND (AS NOTED) ASPHALT BUILDING LINE **ABBREVIATIONS** REFERENCE SURVEYS

OVERHEAD UNDERGROUND TYPICAL CALCULATED MEASURED

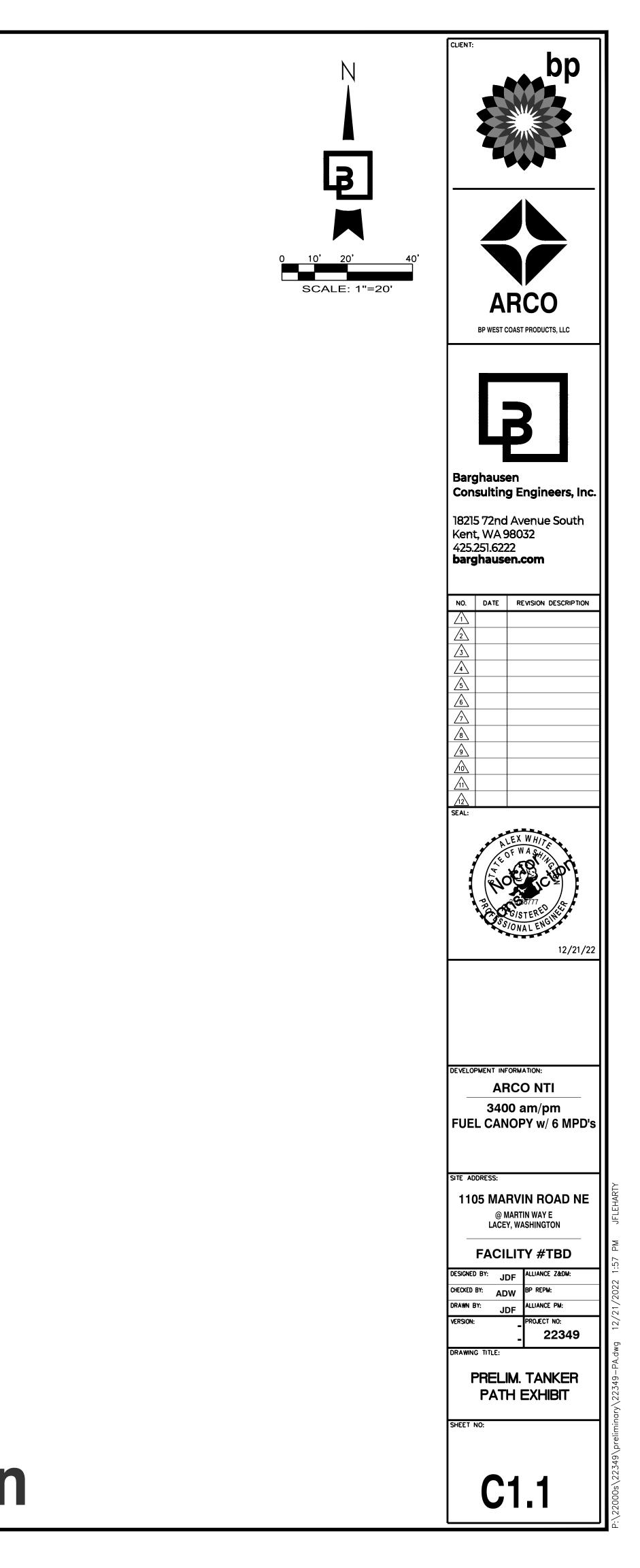
Revision	<b>.E SURVEY</b> THE SE1/4 F THE SE1/4 ie. 1 WEST, W. M., TY, WASHINGTON
By Ckd. Appr.	ALTA/NSPS LAND TITLE SURVEY PTN. OF THE SW1/4 OF THE SE1/4 AND PTN. OF THE SE1/4 OF THE SE1/4 OF SEC. 11, TWP. 18 NORTH, RGE. 1 WEST, W. M., CITY OF LACEY, OLYMPIA COUNTY, WASHINGTON
So Date	Title:
Y APPEAR ON THE MAP) EY MONUMENT (AS NOTED) ON CORNER (AS NOTED) REBAR/CAP (AS NOTED) 2"X2" HUB/TACK LINE STAKE WASHER OR LEAD/TACK (AS NOTED) HMARK WARE (LUM.) LIGHT MENTAL LIGHT TCC SIGNAL LIGHTS R METER R POLE TION BOX (AS NOTED) PHONE MANHOLE H BASIN (CB) M MANHOLE (SDMH) ARY SEWER MANHOLE (SSMH) NOUT (AS NOTED) METER VALVE R VALVE (WV) ET HYDRANT(FH) / CONNECTION(FDC) R MANHOLE R METER -OFF / AIRVAC TOR WELL ATION SPRINKLER TIONAL ARROW SYMBOL N LINK FENCE D FENCE	For: ARCO 1105 MARVIN RD. NE LACEY, WASHINGTON
VIRE FENCE FENCE L/IRON FENCE D RAIL/CABLE FENCE R LINE LINE	Scale: Horizontal 1"=30' Vertical
M LINE PHONE LINE (OH) OR (UG) IR LINE (OH) OR (UG) M LINE IR LINE IERY TONE WALL DUOUS TREE	Designed Drawn Checked Approved Date 12/7/22
FEROUS TREE R CONTOUR LINE R CONTOUR LINE CRETE FEL/SAND (AS NOTED) HALT DING LINE REVIATIONS RENCE SURVEYS HEAD CRGROUND CAL ULATED SURED	Barghausen Barghausen Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com
SITE MAP	Job Number 22349 Sheet 2 of 2

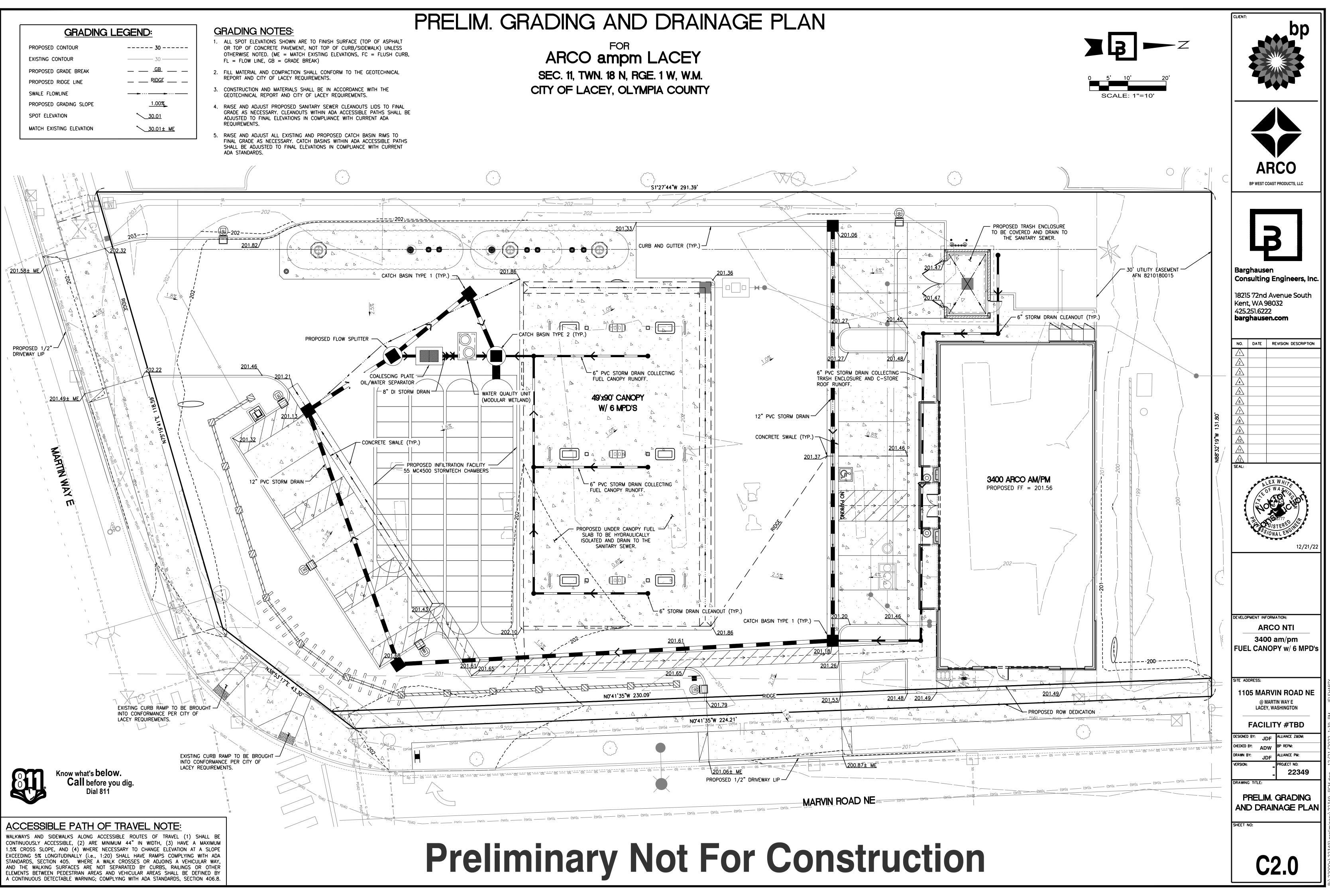




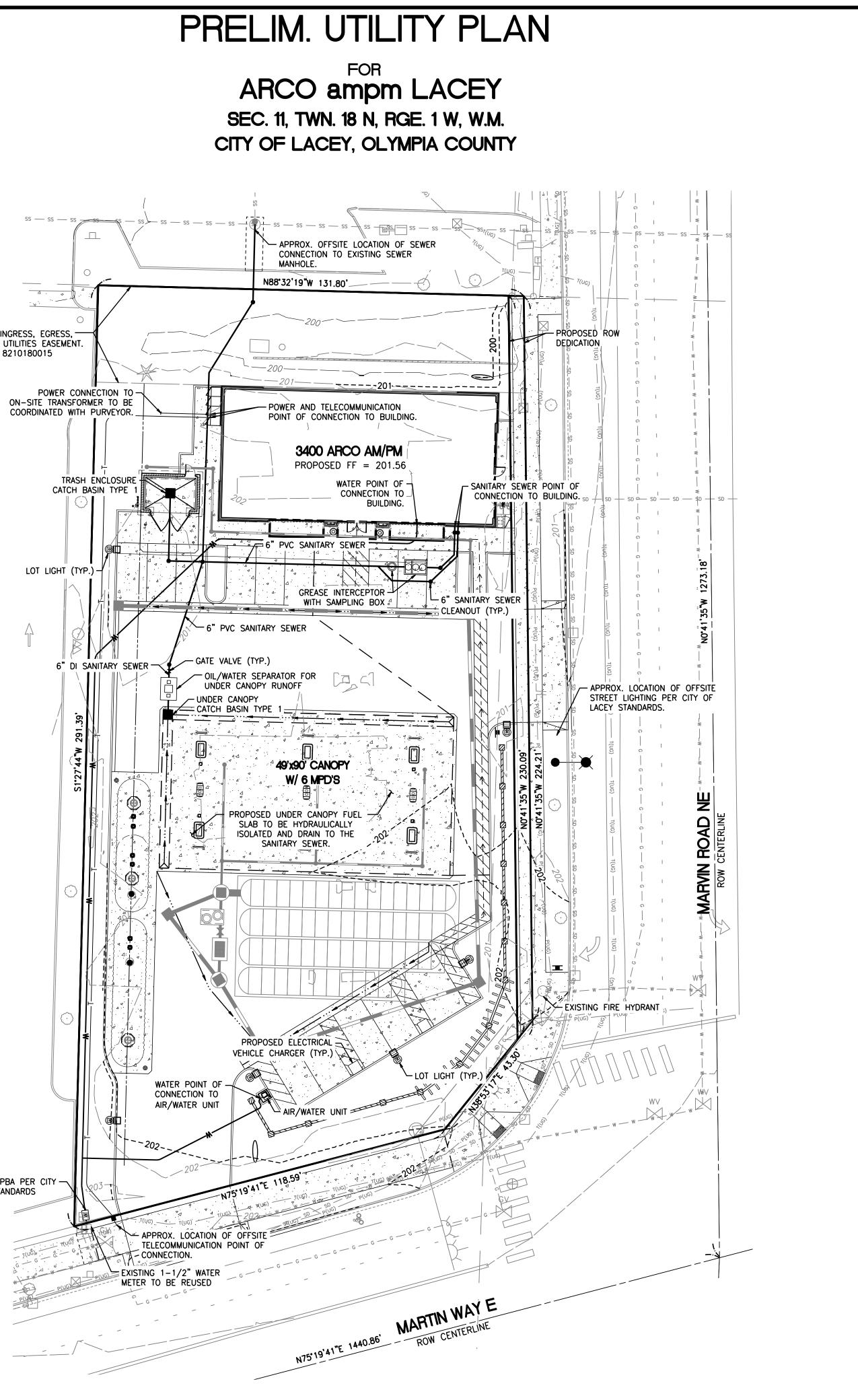


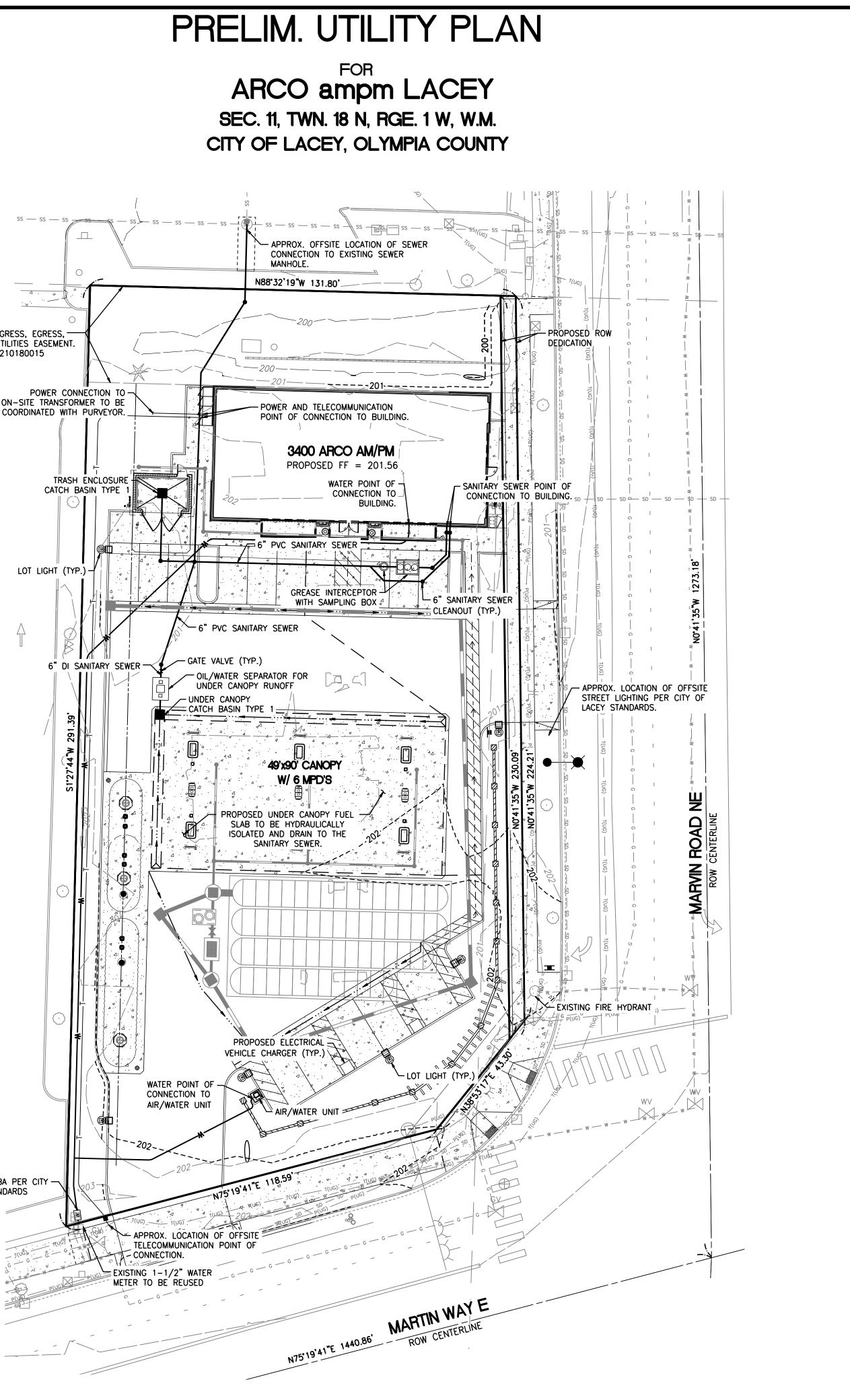
## **Preliminary Not For Construction**

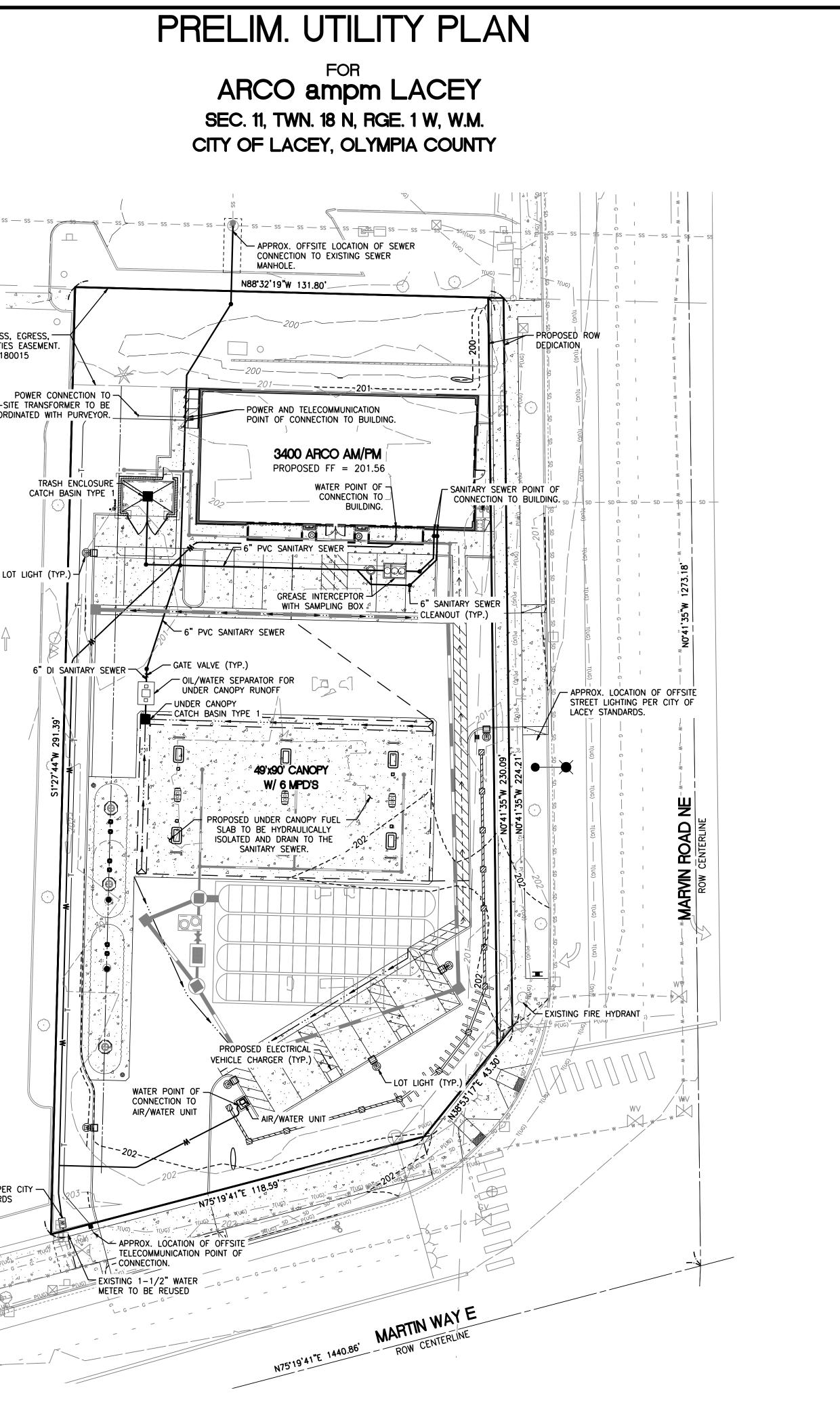


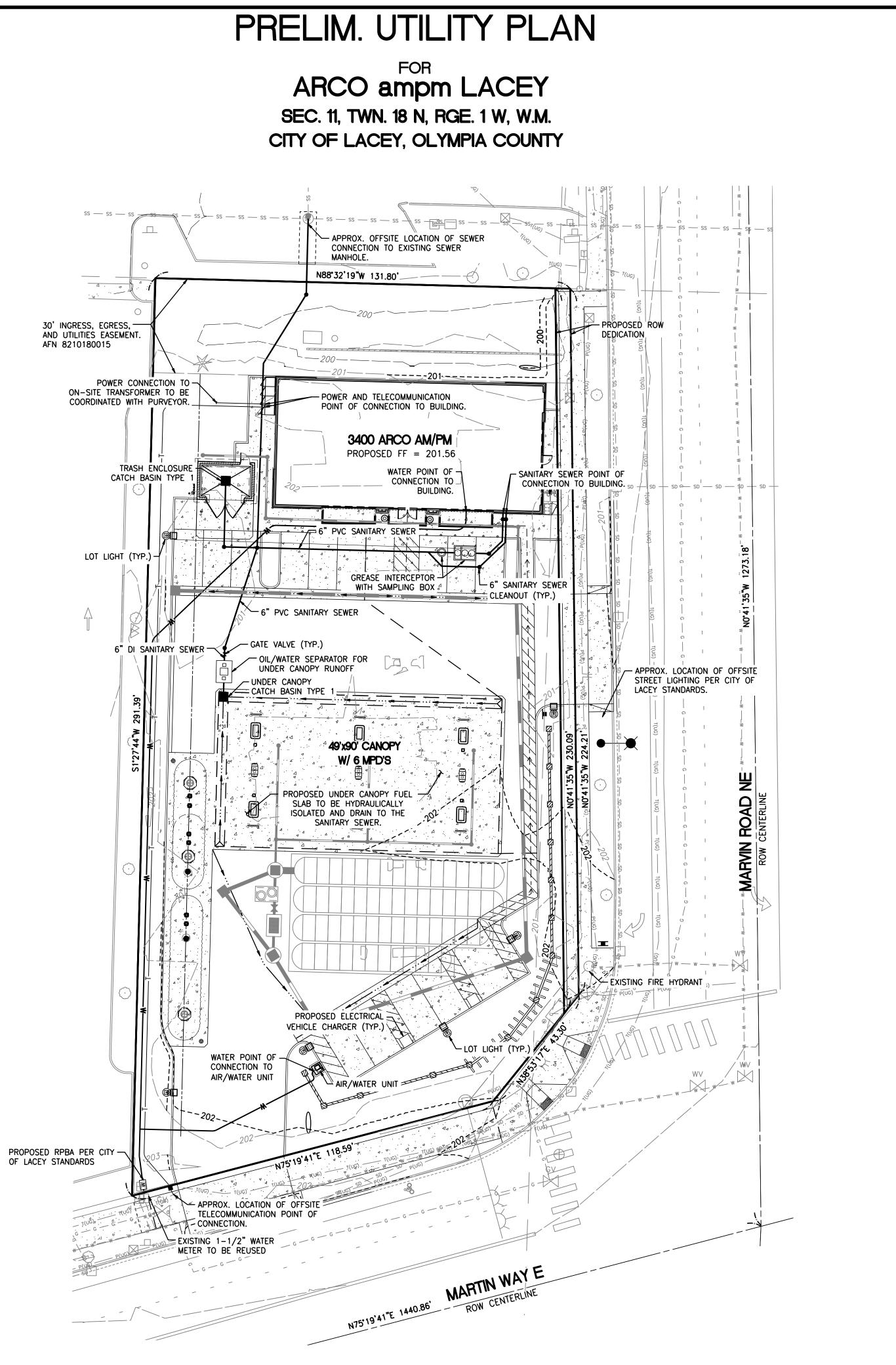


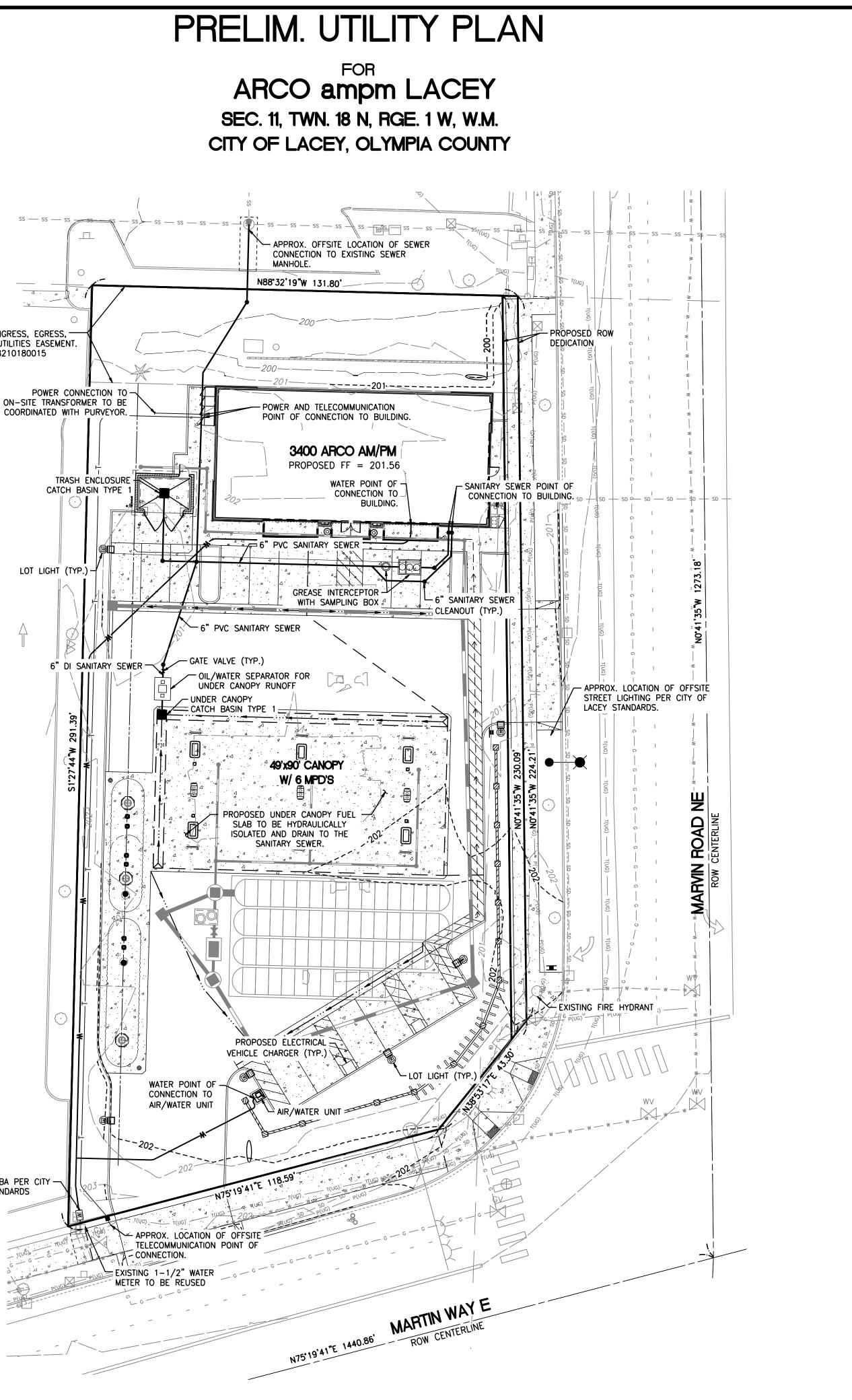












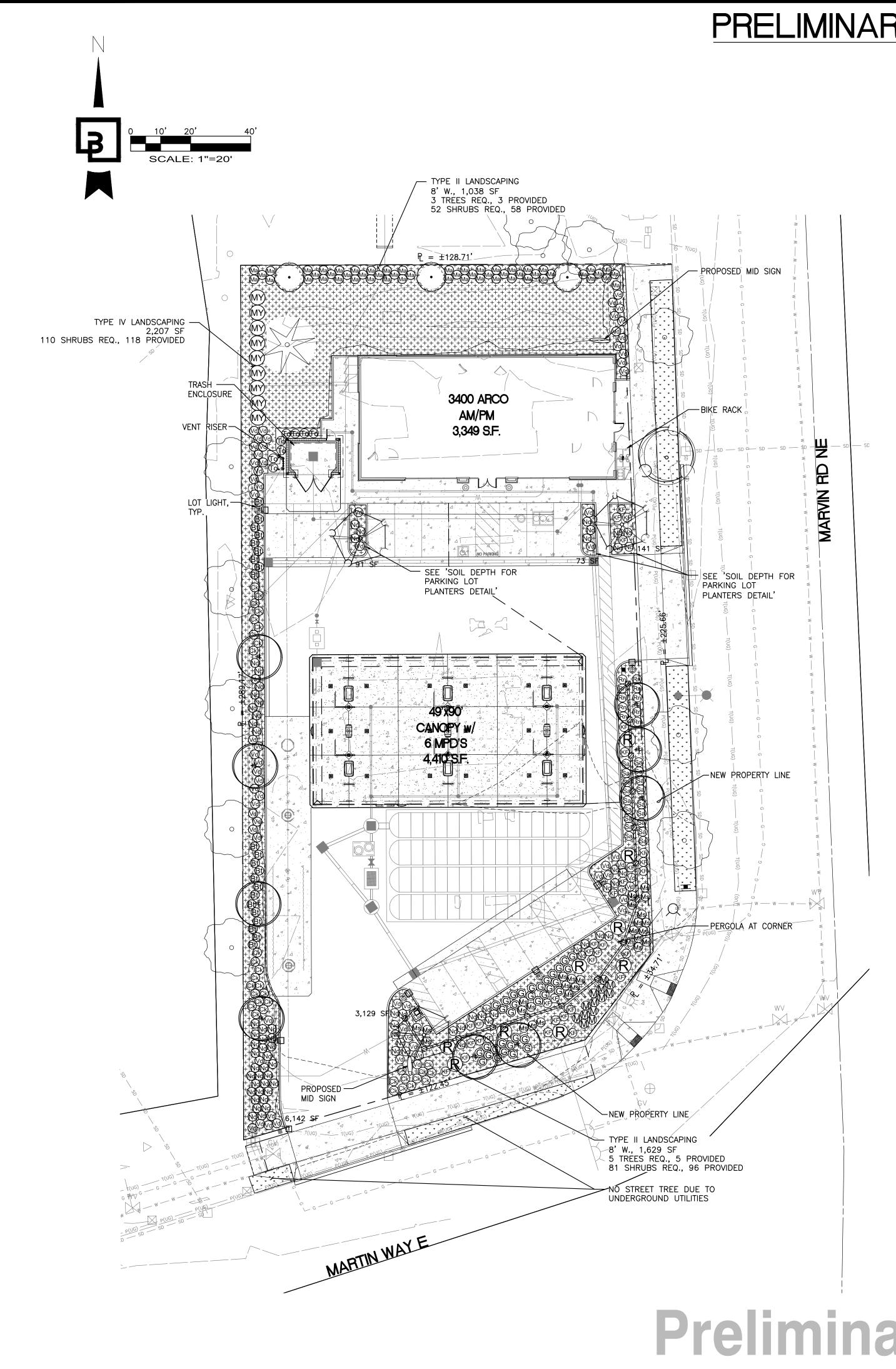




Know what's **below. Call** before you dig. Dial 811

## **Preliminary Not For Construction**

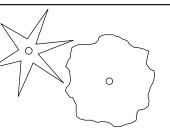
N	<image/>
	NO. DATE REVISION DESCRIPTION   1 1   1 1
	Image: search of the search of th
	DEVELOPMENT INFORMATION: ARCO NTI 3400 am/pm FUEL CANOPY w/ 6 MPD's SITE ADDRESS: 1105 MARVIN ROAD NE @ MARTIN WAY E LACEY, WASHINGTON
	FACILITY #TBD         DESIGNED BY: JDF         JDF         ADW         BP REPM:         DRAWN BY: JDF         JDF         VERSION:         PROJECT NO:         22349         DRAWING TITLE:         PRELIM. UTILITY PLAN         SHEET NO:
	<b>C3.0</b>



## PRELIMINARY LANDSCAPE PLAN

2 TREES REQUIRED PER 10,000 SF LOT AREA LOT AREA = 35,958 SF / 10,000 X 2 = 11 TREES REQUIRED 15 TREES SHOWN

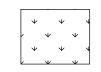
### LANDSCAPE LEGEND



EXISTING TREE TO BE RETAINED PROTECT DURING CONSTRUCTION

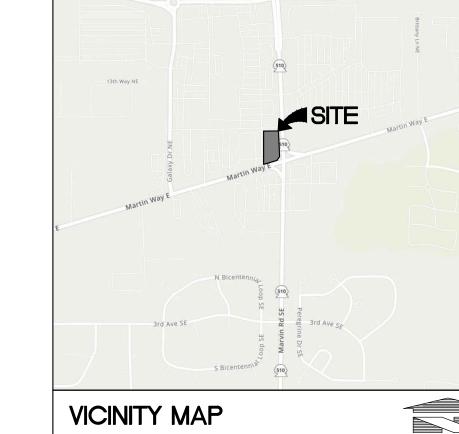
### PLANT SCHEDULE

DECIDUOUS TREES	<u>QTY</u>	BOTANICAL / COMMON NAME
#	9	ACER CIRCINATUM / VINE MAPLE SYMMETRICAL, BRANCHED TO 3-4 FEET; 3-5 STEM WITH MIN. 1 ST
	1	ACER RUBRUM 'JFS-KW78' / ARMSTRONG GOLD MAPLE NURSERY GROWN FOR STREET TREE USE, BRANCHING AT 5'. STA GROWING SEASON.
	3	GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE' / SKYLINE HONEY L NURSERY GROWN FOR STREET TREE USE, BRANCHING AT 5'. STA GROWING SEASON.
EVERGREEN TREES	<u>QTY</u>	BOTANICAL / COMMON NAME
	3	THUJA PLICATA `EXCELSA` / EXCELSA WESTERN RED CEDAR FULL TO BASE, SYMMETRICAL, SINGLE STRAIGHT LEADER, MIN. 2' GROWING SEASON.
<u>SHRUBS</u>	<u>QTY</u>	BOTANICAL / COMMON NAME
Bt	22	BERBERIS THUNBERGII `ORANGE ROCKET` / JAPANESE BARBERR
Ck	33	CORNUS SERICEA `KELSEYI` / DWARF REDTWIG DOGWOOD
G	34	GAULTHERIA SHALLON / SALAL
Ma	55	MAHONIA AQUIFOLIUM / OREGON GRAPE
M	13	MAHONIA AQUIFOLIUM `COMPACTA` / COMPACT OREGON GRAPE
MY	9	MYRICA CALIFORNICA / PACIFIC WAX MYRTLE
Nd	73	NANDINA DOMESTICA `GULF STREAM` / HEAVENLY BAMBOO
R	9	RHODODENDRON X `ANAH KRUSCHKE` / RHODODENDRON
Rn	10	ROSA NUTKANA / NOOTKA ROSE
Sa	18	SYMPHORICARPOS ALBUS / SNOWBERRY
Ó	8	THUJA OCCIDENTALIS `SMARAGD` / ARBORVITAE
Vd	66	VIBURNUM DAVIDII / DAVID VIBURNUM
FERNS AND GRASSES	QTY	BOTANICAL / COMMON NAME
KF	34	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERS
MS	28	MISCANTHUS SINENSIS `YAKU JIMA` / DWARF MAIDEN GRASS
GROUND COVERS	<u>QTY</u>	BOTANICAL / COMMON NAME
$\begin{array}{c} + + + + + + + + + + + + + + + + + + +$	760	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS' / KINNIKINNICK



TURFGRASS LAWN 1,500 SF SOD OR HYDROSEED

## **Preliminary Not For Construction**



S Bicentennia 5			BP WEST COAST PRODUCTS, LLC
CINITY MAP			
	CONT.	SIZE	B
			Barghausen
STEM AT 3/4" CAL.	B & B	8` MIN. HT.	Consulting Engineers,
TAKE AND GUY ONE	B & B	2" CAL	18215 72nd Avenue Sout Kent, WA 98032 425.251.6222
LOCUST FAKE AND GUY ONE	B & B	2" CAL	barghausen.com
	CONT.	SIZE	NO.     DATE     REVISION DESCRIPT       1
2" CAL. STAKE AND GUY ONE	B & B	7` MIN. HT.	$ \begin{array}{c c} \hline 3 \\ \hline 4 \\ \hline 5 \\ \hline \end{array} $
	CONT.		
RY	16" HT. MIN.		
	16" HT. MIN.		
	16" HT. MIN.		<u>/11</u> <u>/12</u> SEAL:
	16" HT. MIN.		AT SEF M. VARIAL
Ξ	16" HT. MIN.		
	16" HT. MIN.		ANDECOPE AL
	16" HT. MIN.		
	16" HT. MIN.		
	16" HT. MIN.		
	16" HT. MIN.		DEVELOPMENT INFORMATION:
	42" MIN HT		
	16" HT. MIN.		3400 am/pm FUEL CANOPY w/ 6 MF
	CONT.		
STER FEATHER REED GRASS	1 GAL.		SITE ADDRESS: 1105 MARVIN ROAD I
	1 GAL.		@ MARTIN WAY E LACEY, WASHINGTON
	CONT.	SPACING	FACILITY #TBD
			DESIGNED BY: TCR ALLIANCE Z&DM:
	1 GAL.	36" o.c.	CHECKED BY: JMV BP REPM: DRAWN BY: TCR ALLIANCE PM:
			VERSION: PROJECT NO:
			DRAWING TITLE: PRELIMINAR' LANDSCAPE PLAN

ARCO BP WEST COAST PRODUCTS, LLC Engineers, Inc. venue South )32 .com EVISION DESCRIPTION



PLAN

SHEET NO:

#### LANDSCAPE PLANTING NOTES AND MATERIALS

#### SCOPE OF WORK

FURNISH ALL MATERIALS, LABOR, EQUIPMENT AND RELATED ITEMS NECESSARY TO ACCOMPLISH TOPSOIL, TREATMENT AND PREPARATION OF SOIL, FINISH GRADING, PLACEMENT OF SPECIFIED PLANT MATERIALS, FERTILIZER, STAKING, MULCH, CLEAN-UP, DEBRIS REMOVAL, AND 30-DAY MAINTENANCE.

QUALIFICATIONS

LANDSCAPE CONTRACTOR TO BE SKILLED AND KNOWLEDGEABLE IN THE FIELD OF WORK AND HAVE A MINIMUM OF FIVE (5) YEAR'S EXPERIENCE INSTALLING SIMILAR WORK. CONTRACTOR TO BE LICENSED TO PERFORM THE WORK SPECIFIED WITHIN THE PRESIDING JURISDICTION.

#### JOB CONDITIONS:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE AND REPORT ANY DISCREPANCIES TO THE OWNER OR THE OWNER'S REPRESENTATIVES. ALL PLANT MATERIAL AND FINISH GRADES ARE SUBJECT TO APPROVAL BY THE OWNER.

#### PROTECTION

SAVE AND PROTECT ALL EXISTING PLANTINGS SHOWN TO REMAIN. DO NOT PLANT UNTIL OTHER CONSTRUCTION OPERATIONS WHICH CONFLICT HAVE BEEN COMPLETED. IF AN IRRIGATION SYSTEM IS TO BE INSTALLED DO NOT PLANT UNTIL THE SYSTEM HAS BEEN INSTALLED, TESTED. AND APPROVED BY THE OWNER. HANDLE PLANTS WITH CARE - DO NOT DAMAGE OR BREAK ROOT SYSTEM, BARK, OR BRANCHES. REPAIR AND/OR REPLACE ITEMS DAMAGED AS A RESULT OF WORK, OR WORK NOT IN COMPLIANCE WITH PLANS AND SPECIFICATIONS, AS DIRECTED BY OWNER AT NO ADDITIONAL COST TO THE OWNER.

#### REPAIR OF EXISTING PLANTINGS:

DURING THE COURSE OF WORK, REPAIR ALL EXISTING PLANTING AREAS BY PRUNING DEAD GROWTH, RE-ESTABLISHING FINISH GRADE AND RE-MULCHING TO SPECIFIED DEPTH.

#### REPAIR OF IRRIGATION SYSTEM:

DURING THE COURSE OF WORK, REPAIR ANY DAMAGE TO THE IRRIGATION SYSTEM TO MATCH CONDITIONS PRIOR TO THE DAMAGE.

#### GUARANTEE

GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE JOB BY OWNER.

#### 30-DAY MAINTENANCE

CONTRACTOR TO PROVIDE OWNER WITH A SCOPE OF WORK AT TIME OF INITIAL PROJECT BID TO PROVIDE LANDSCAPE AND IRRIGATION MAINTENANCE FOR 30 DAYS FOLLOWING STORE OPENING. WORK TO INCLUDE MAINTENANCE AS DESCRIBED BELOW, IN PLANTING AND IRRIGATION MAINTENANCE.

#### SUBMITTALS

SUBMIT THE FOLLOWING TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY WORK: A) DOCUMENTATION THAT ALL PLANT MATERIAL HAS BEEN ORDERED.

- B) TOPSOIL ANALYSIS AND RECOMMENDED AMENDMENTS; SEE BMP T5.13 NOTES THIS SET.
- C) TREE STAKING AND GUYING MATERIALS D) ONE (1) QUART SIZE OF TOPSOIL AND MULCH.
- E) PLANTING SCHEDULE INCLUDING DATES AND TIMES.
- F) MAINTENANCE INSTRUCTIONS FOR ONE (1) FULL YEAR

#### MATERIALS:

#### PLANT MATERIALS:

PLANT MATERIALS TO BE GRADE NO. 1, SIZED IN ACCORDANCE WITH (AAN) AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PRUNE PLANTS RECEIVED FROM THE NURSERY ONLY UPON AUTHORIZATION BY THE LANDSCAPE ARCHITECT. "B & B" INDICATES BALLED AND BURLAPPED; "CONT." INDICATES CONTAINER; "BR" INDICATES BARE ROOT; "GAL" INDICATES GALLON.

- A) SPECIFIED PLANT CANOPY SIZE OR CALIPER IS THE MINIMUM ACCEPTABLE CONTAINER OR BALL SIZE AND ESTABLISHES MINIMUM PLANT CONDITION TO BE PROVIDED. B) QUALITY:
- PLANT MATERIAL TO COMPLY WITH STATE AND FEDERAL LAWS FOR DISEASE INSPECTION, PLANTS TO BE FULLY LIVE, VIGOROUS, WELL FORMED, WITH WELL DEVELOPED FIBROUS ROOT SYSTEMS. ROOT BALLS OF PLANTS TO BE SOLID AND FIRMLY HELD TOGETHER, SECURELY CONTAINED AND PROTECTED FROM INJURY AND DESICCATION. PLANTS DETERMINED BY LANDSCAPE ARCHITECT TO HAVE BEEN DAMAGED; HAVE DEFORMITIES OF STEM, BRANCHES, OR ROOTS; LACK SYMMETRY, HAVE MULTIPLE LEADERS OR "Y" CROTCHES LESS THAN 30 DEGREES IN TREES, OR DO NOT MEET SIZE OR ANSI STANDARDS WILL BE REJECTED. PLANT MATERIAL TO BE FROM A SINGLE NURSERY SOURCE FOR EACH SPECIFIED SPECIES/HYBRID. NURSERY SOURCES TO BE THOSE LOCATED IN THE SAME REGION AS THE JOB SITE.
- C) SUBSTITUTION: NO SUBSTITUTION OF PLANT MATERIAL, SPECIES OR VARIETY, WILL BE PERMITTED UNLESS WRITTEN EVIDENCE IS SUBMITTED TO THE OWNER FROM TWO QUALIFIED PLANT BROKERAGE OFFICES. SUBSTITUTIONS WHICH ARE PERMITTED TO BE IN WRITING FROM THE OWNER AND LANDSCAPE ARCHITECT. THE SPECIFIED SIZE, SPECIES AND NEAREST VARIETY, AS APPROVED, TO BE FURNISHED. SUBSTITUTIONS MAY REQUIRE SUBMITTAL TO REVISED LANDSCAPE PLAN TO CITY FOR APPROVAL
- D) LABEL AT LEAST ONE (1) TREE, SHRUB, AND GROUNDCOVER OF EACH VARIETY WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAMES.

#### BMP T5.13 POST-CONSTRUCTION SOIL QUALITY AND DEPTH

#### PURPOSE AND DEFINITION

NATURALLY OCCURRING (UNDISTURBED) SOIL AND VEGETATION PROVIDE IMPORTANT STORMWATER FUNCTIONS INCLUDING: WATER INFILTRATION: NUTRIENT, SEDIMENT, AND POLLUTANT ABSORPTION: SEDIMENT AND POLLUTANT BIOFILTRATION: WATER INTERFLOW STORAGE AND TRANSMISSION; AND POLLUTANT DECOMPOSITION. THESE FUNCTIONS ARE LARGELY LOST WHEN DEVELOPMENT STRIPS AWAY NATIVE SOIL AND VEGETATION AND REPLACES IT WITH MINIMAL TOPSOIL AND SOD. NOT ONLY ARE THESE IMPORTANT STORMWATER FUNCTIONS LOST, BUT SUCH LANDSCAPES THEMSELVES BECOME POLLUTION GENERATING SURFACES DUE TO INCREASED USE OF PESTICIDES, FERTILIZERS AND OTHER LANDSCAPING AND HOUSEHOLD/INDUSTRIAL CHEMICALS, THE CONCENTRATION OF PET WASTES, AND POLLUTANTS THAT ACCOMPANY ROADSIDE LITTER

ESTABLISHING SOIL QUALITY AND DEPTH REGAINS GRATER STORMWATER FUNCTIONS IN THE POST DEVELOPMENT LANDSCAPE, PROVIDES INCREASED TREATMENT OF POLLUTANTS AND SEDIMENTS THAT RESULT FROM DVELOPMENT AND HABITATION, AND MINIMIZES THE NEED FOR SOME LANDSCAPING CHEMICALS, THUS REDUCING POLLUTION THROUGH PREVENTION.

APPLICATIONS AND LIMITATIONS ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH IS NOT THE SAME AS PRESERVATION OF NATURALLY OCCURRING SOIL AND VEGETATION. HOWEVER, ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH WILL PROVIDE IMPROVED ON-SITE MANAGEMENT OF STORMWATER FLOW AND WATER QUALITY

SOIL ORGANIC MATTER CAN BE ATTAINED THROUGH NUMEROUS MATERIALS SUCH AS COMPOSTED WOODY MATERIAL, BIOSOLIDS, AND FOREST PRODUCT RESIDUALS. IT IS IMPORTANT THAT THE MATERIALS USE TO MEET THIS BMP BE APPROPRIATE AND BENEFICIAL TO THE PLANT COVER TO BE ESTABLISHED. LIKEWISE, IT IS IMPORTANT THAT IMPORTED TOPSOILS IMPROVE SOIL CONDITIONS AND DO NOT HAVE AN EXCESSIVE PERCENT OF CLAY FINES. THE BMP CAN BE CONSIDERED INFEASIBLE ON TILL SOIL SLOPES GREATER THAN 33 PERCENT.

#### DESIGN GUIDELINES

SOIL RETENTION

RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING, REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING: 1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A pH FROM 6.0 TO 8.0 OR MATCHING THE pH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4

INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.

- USE COMPOST AND OTHER MATERIALS THAT MEET THE FOLLOWING ORGANIC CONTENT REQUIREMENTS: THE ORGNICA CONTENT FOR 'PRE-APPROVED' AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BMP 17-30: BIORETENTION, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% 3.1. BIOSOLIDS OR MANURE THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1
- THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (3.1) ABOVE, OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE 3.4. CONTAINMENT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.

THE REULTING SOIL SHOULD BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

IMPLEMENTATION OPTIONS THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

- LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
- AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT 'PRE-APPROVED' RATES, OR AT CUSTOM CALCULATED RATES ASED ON TESTS OF THE SOIL AND AMENDMENT. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT 'PRE-APPROVED' RATE OR AT A CUSTOM CALCULATED RATE
- 4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED

- AND COMMON NAMES.
- E) DELIVER PLANT MATERIAL AFTER PREPARATION OF PLANTING AREAS HAVE BEEN OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

SOIL PREPARATION: SEE BMP T5.13 SOIL IMPROVEMENT NOTES THIS SET.

ORGANIC MULCH (TOPDRESSING): ONE-HALF-INCH (1/2") SIZE, TO ONE-QUARTER (1/4"), HEMLOCK/FIR BARK. FINE TEXTURED AND DARK BROWN IN COLOR.

STAKES: 2-INCH DIAMETER BY 8-FOOT MINIMUM LODGEPOLE PINE STAKES.

GUY MATERIAL: 1-INCH WIDE POLYETHYLENE CHAIN LOCK TYPE TIES; OR, 3/8" DIAMETER RUBBER. NO WIRE.

DROUGHT TOLERANT COMMERCIAL SEED AS NOTED ON PLANS.

HERBICIDE HERBICIDE IS NOT RECOMMENDED FOR THE FIRST YEAR AFTER INSTALLATION.

ANTI-DESICCANT "WILT-PROOF," 48 HOURS PRIOR TO SHIPMENT TO SITE FROM JUNE 1 THROUGH SEPTEMBER. THOROUGHLY ROOT WATER PLANTS PRIOR TO DELIVERY. PLANT MATERIAL DELIVERED TO SITE TO BE KEPT CONTINUALLY MOIST THROUGH INSTALLATION.

#### EXECUTION:

CONTAMINANTS VERIFY THAT ALL SOIL CONTAMINANTS (E.G., PAINT, SEALANTS, SOLVENTS, OILS, GREASES, CONCRETE/ASPHALT SPOILS, ETC.) HAVE BEEN SATISFACTORILY REMOVED FROM ALL PLANTING AREAS. DO NOT BEGIN WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED

# FINISH GRADES

FINE GRADE AND REMOVE ROCKS, DEBRIS, AND FOREIGN OBJECTS OVER 2 INCHES DIAMETER FROM TOP SURFACE OF PREPARED LANDSCAPE AREAS. FINISH ELEVATIONS TO BE DEFINED AS 3 INCHES BELOW CURBS, WALKS AND/OR OTHER ADJACENT HARDSCAPE FOR ALL PLANTING BED AREAS AND 1-INCH BELOW CURBS, WALKS AND/OR OTHER ADJACENT HARDSCAPE FOR ALL LAWN AREAS. 'FINISH GRADE' REFERS TO GRADES PRIOR TO INSTALLATION OF MULCH OR LAWN. ALL FINISH GRADES TO BE SMOOTH EVEN GRADES, LIGHTLY COMPACTED, AS SHOWN ON THE PLAN AND DETAILED. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. SITE CIVIL DRAWINGS IDENTIFY FINAL ELEVATIONS. MOISTEN PREPARED AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.

#### TREES AND SHRUBS

ARRANGE TREES AND SHRUBS ON SITE IN PROPOSED LOCATIONS PER DRAWINGS. EXCAVATE PIT, PLANT AND STAKE OR GUY, AS CALLED OUT AND DETAILED. ALL TREES, SHRUBS, AND SUPPORTS TO STAND VERTICAL. BACKFILL SHALL BE PIT SPOILS. SETTLE BACKFILL USING WATER ONLY. NO MECHANICAL COMPACTION.

GROUNDCOVERS: EXCAVATE PITS TO A MINIMUM OF 3 INCHES BELOW, AND TWICE THE ROOT BALL DIAMETER. WATER THOROUGHLY AND TAKE CARE TO ENSURE THAT ROOT CROWN IS AT PROPER GRADE, AS DETAILED.

MULCH MULCH ALL LANDSCAPE AREAS NOT COVERED BY LAWN AND/OR SEED. APPLY SUFFICIENT QUANTITY TO PROVIDE A 3-INCH DEPTH.

UTILITY CLEARANCES: SEPARATION FOR GROUNDCOVER FROM FIRE HYDRANTS AND UTILITY VAULTS.

CLEANUP AND PROTECTION:

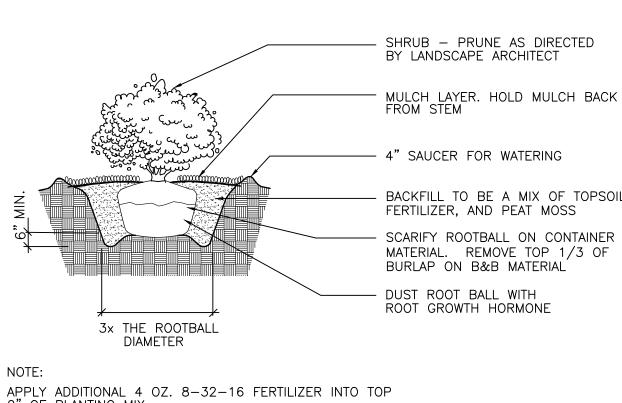
## PRELIMINARY LANDSCAPE PLAN

D) LABEL AT LEAST ONE (1) TREE, SHRUB, AND GROUNDCOVER OF EACH VARIETY WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL

COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX (6) HOURS AFTER DELIVERY, SET MATERIAL IN SHADE, PROTECT FOR WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOT BALLS MOIST BY COVERING WITH MULCH, BURLAP

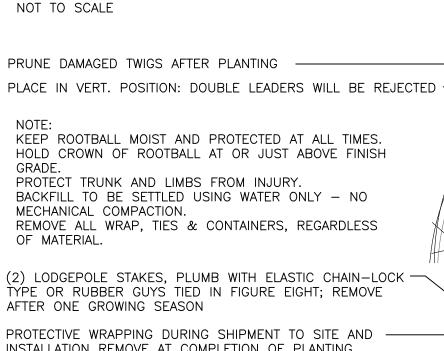
FIELD ADJUST PLANT LOCATIONS FOR 8-FOOT SEPARATION OF TREES/SHRUBS AND 2-FOOT

DURING LANDSCAPE WORK, KEEP ALL PAVEMENT CLEAN AND WORK AREAS IN AN ORDERLY CONDITION. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIOD. TREAT. REPAIR. OR REPLACE DAMAGE LANDSCAPE WORK AS DIRECTED BY THE OWNER.



2" OF PLANTING MIX. PLANT SHRUB HIGH ENOUGH TO ALLOW POSITIVE DRAINAGE AWAY FROM ROOTBALL. ROUGHEN ALL SURFACES OF PIT. CUT AND REMOVE BURLAP FROM ROOT BALL

SHRUB PLANTING DETAIL



INSTALLATION REMOVE AT COMPLETION OF PLANTING 2" DEEP MULCH LAYER IN WELL. HOLD BACK FROM

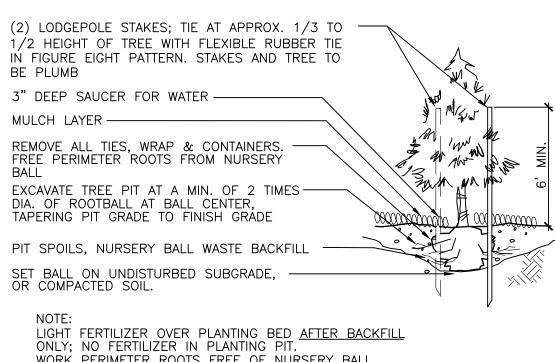
TRUNK 8" TO 10" FINISH GRADE

PREPARE PLANTING BED PER SPEC'S; AT MIN., LOSSEN AND MIX SOIL TO 18" OR DEPTH OF ROOTBALL AND 2 TIMES BALL DIAMETER

REMOVE ALL WRAP, TIES, AND CONTAINERS -SCORE ROOTBALL AND WORK NURSERY SOIL AWAY FROM PERIMETER ROOTS SET BALL ON UNDISTURBED BASE OR COMPACTED MOUND UNDER BALL

PENETRATION TO SUBBASE (+) 24"

#### DECIDUOUS TREE PLANTING/STAKING DETAIL NOT TO SCALE



WORK PERIMETER ROOTS FREE OF NURSERY BALL. BALL & PIT TO BE COURSELY SCARIFIED.

EVERGREEN TREE PLANTING/STAKING DETAIL

# **Not For Construction**

NOT TO SCALE

- 4" SAUCER FOR WATERING

BACKFILL TO BE A MIX OF TOPSOIL, FERTILIZER, AND PEAT MOSS SCARIFY ROOTBALL ON CONTAINER MATERIAL. REMOVE TOP 1/3 OF BURLAP ON B&B MATERIAL DUST ROOT BALL WITH

