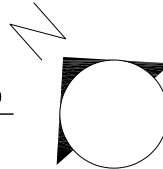


1

existing site plan: 1:40



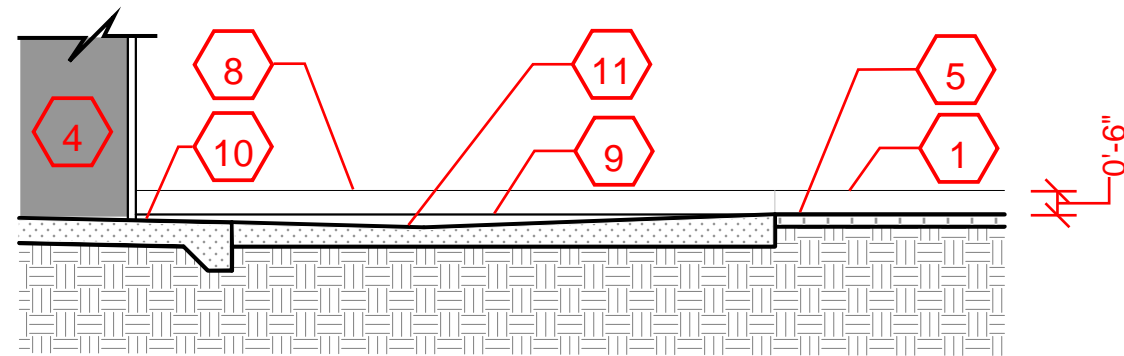
These documents are prepared for the owner or owner's representative for design intent. All structural calculations and design details are the responsibility of the structural engineer. The contractor is responsible for obtaining all necessary permits and approvals for and paid for by the owner. Owner's representative or licensed building contractor, if required, inspections are to be conducted by the contractor with the appropriate city or county jurisdiction.

PROJECT NO. 17835 SW PACIFIC HIGHWAY TUALATIN, OR 970602
 DATE 09.08.2020
 CHECKED J.E.
 DRAWN J.C.

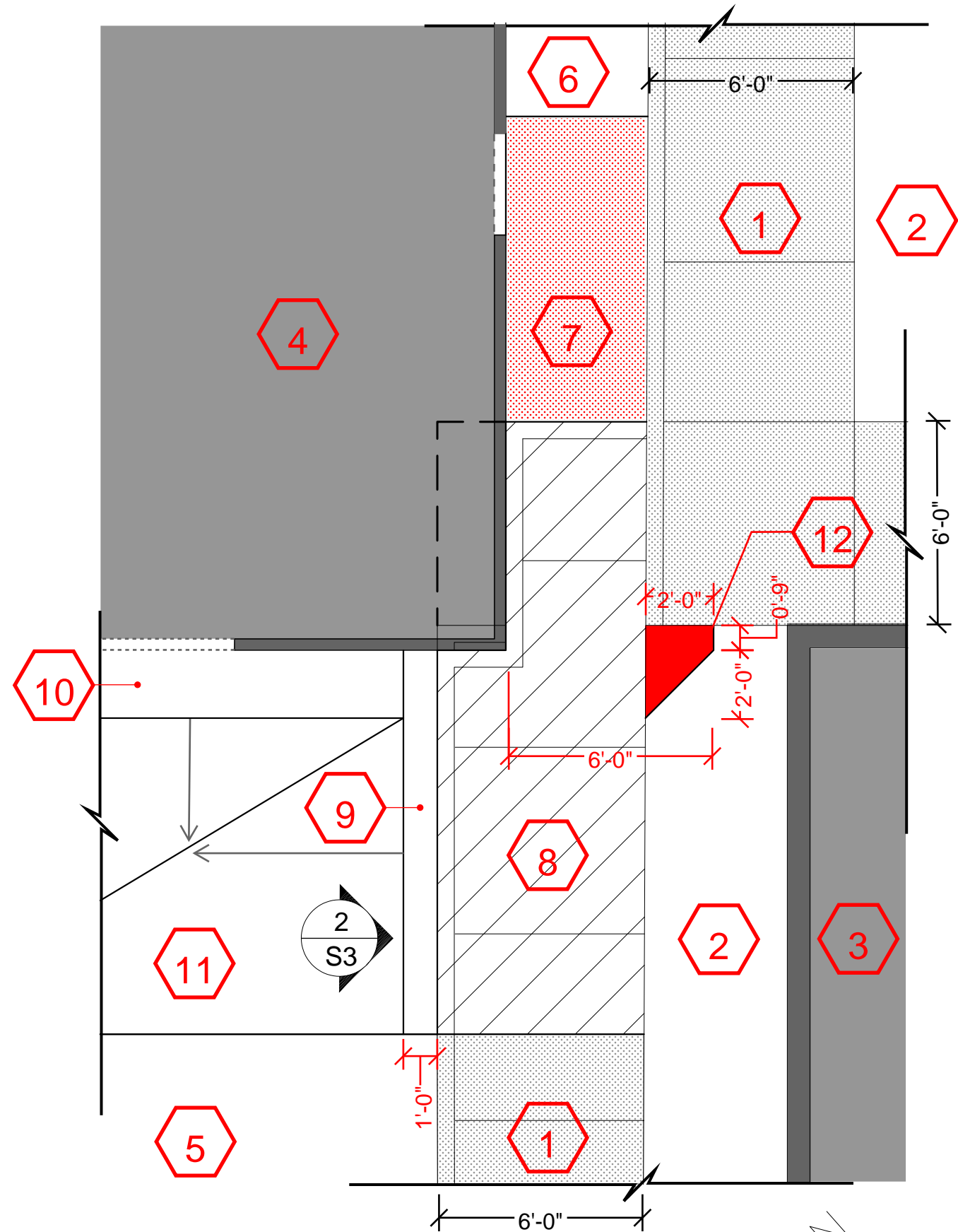
S1

KEYNOTES

- 1 EXISTING SIDEWALK
- 2 EXISTING LANDSCAPE
- 3 EXISTING BUILDING (SHOWN PARTIALLY)
- 4 EXISTING STORAGE (SHOWN PARTIALLY)
- 5 EXISTING ASPHALT PAVING (SHOWN PARTIALLY)
- 6 EXISTING BUILDING TO BE REMOVED AND TURNED INTO LANDSCAPE AREA (SHOWN PARTIALLY)
- 7 REPLACED AREA EXISTING ASPHALT WITH CONCRETE
- 8 EXISTING SIDEWALK AREA TO BE REPLACED
- 9 ADD CONCRETE STEP 12" DEEP AT 6" BELOW TOP OF EXISTING SIDEWALK ELEVATION
- 10 EXISTING CONCRETE APRON
- 11 REPLACE AREA OF TAPERED ASPHALT TO MATCH ELEVATIONS AT NEAREST EDGES AND DRAIN TO EXISTING STORM CATCH BASIN
- 12 AREA OF REQUESTED VARIANCE TO EXTEND SIDEWALK INTO LANDSCAPE AREA TO MAINTAIN 6'-0" SIDEWALK WIDTH



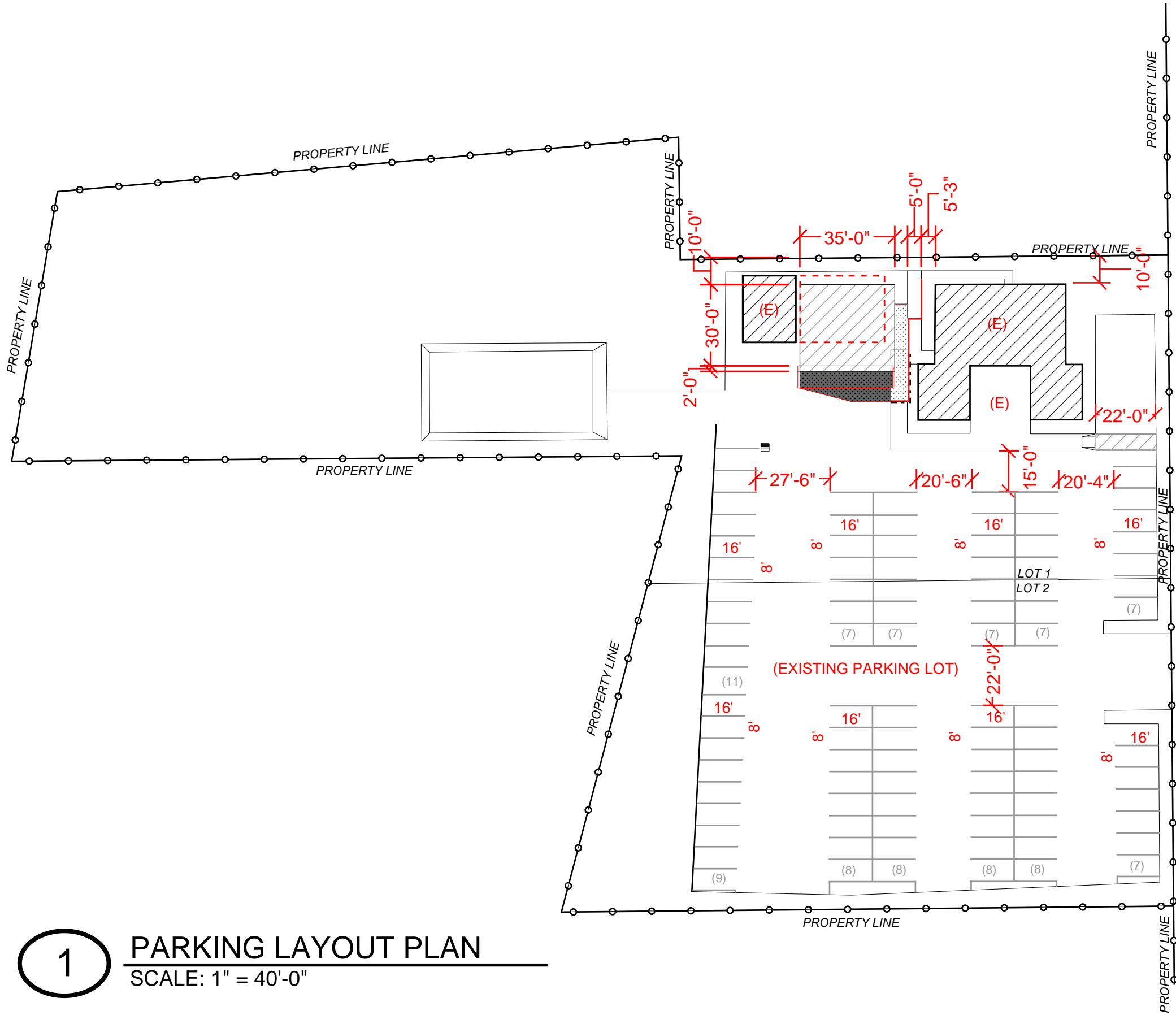
2 apron section: 1/4" = 1' - 0"



1 enlarged site plan: 1/4" = 1' - 0"

PROJECT NO. 17835 SW PACIFIC HIGHWAY TUALATIN, OR 970602
 DRAWN J.C.
 CHECKED J.C.
 DATE 09.08.2020
 ISLAND AUTO REPAIR
 THESE DOCUMENTS ARE PREPARED FOR THE OWNER OR OWNER'S REPRESENTATIVE FOR DESIGN, PERMIT, OR STRUCTURAL CALCULATIONS AND ARE NOT TO BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE CITY OR COUNTY JURISDICTION.

S3



1

PARKING LAYOUT PLAN

SCALE: 1" = 40'-0"

LEGEND

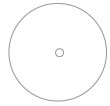
- 1 .
- 2 .
- 3 .

NOTES

- (1) ADA SPACE
- (94) TYPICAL SPACE 8'x16'

HIGHWAY 99

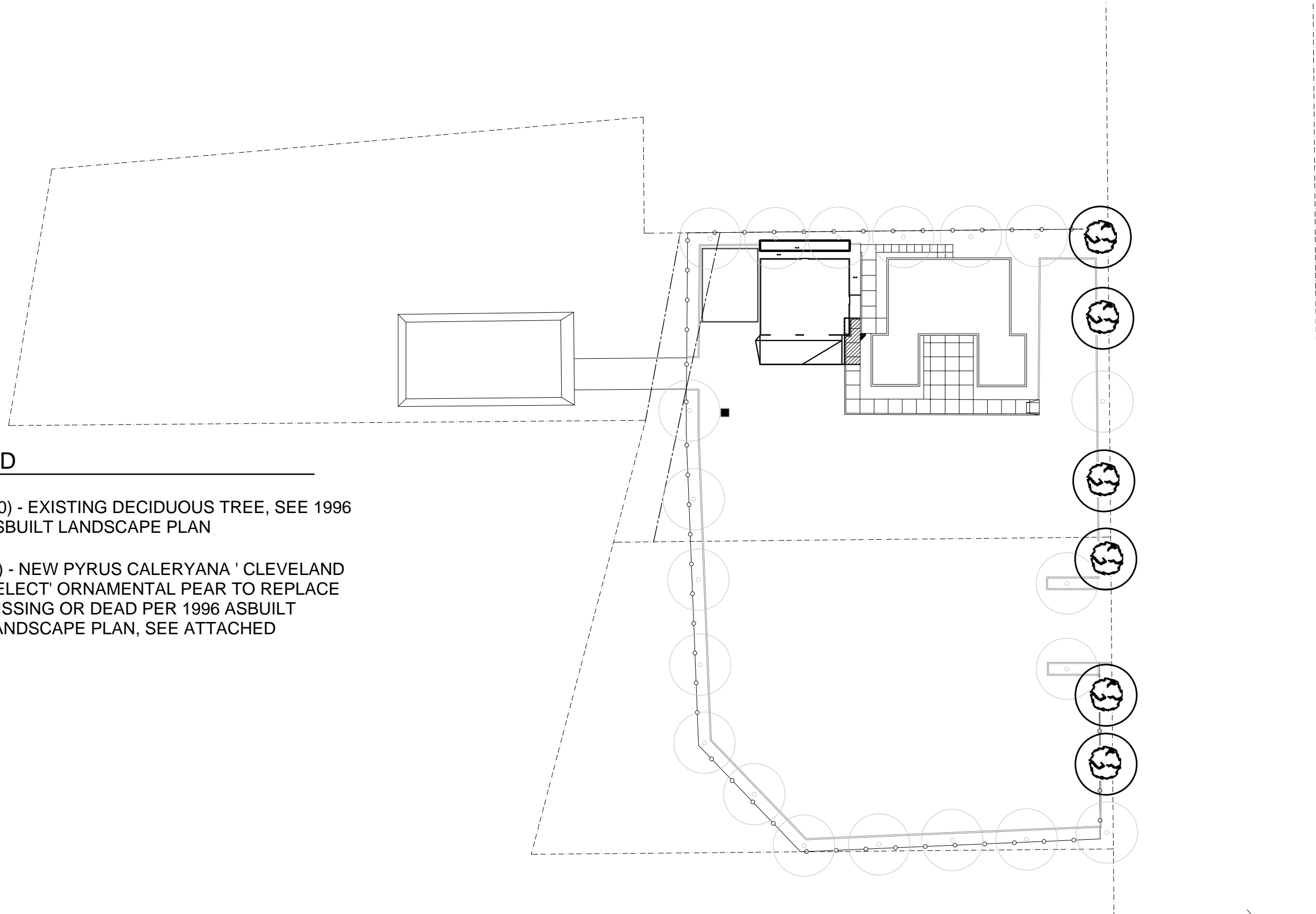
LEGEND



(20) - EXISTING DECIDUOUS TREE, SEE 1996 ASBUILT LANDSCAPE PLAN

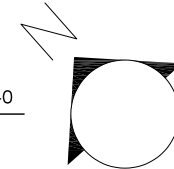


(6) - NEW PYRUS CALERYANA ' CLEVELAND SELECT' ORNAMENTAL PEAR TO REPLACE MISSING OR DEAD PER 1996 ASBUILT LANDSCAPE PLAN, SEE ATTACHED



1

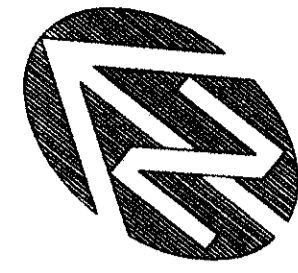
existing site plan: 1:40



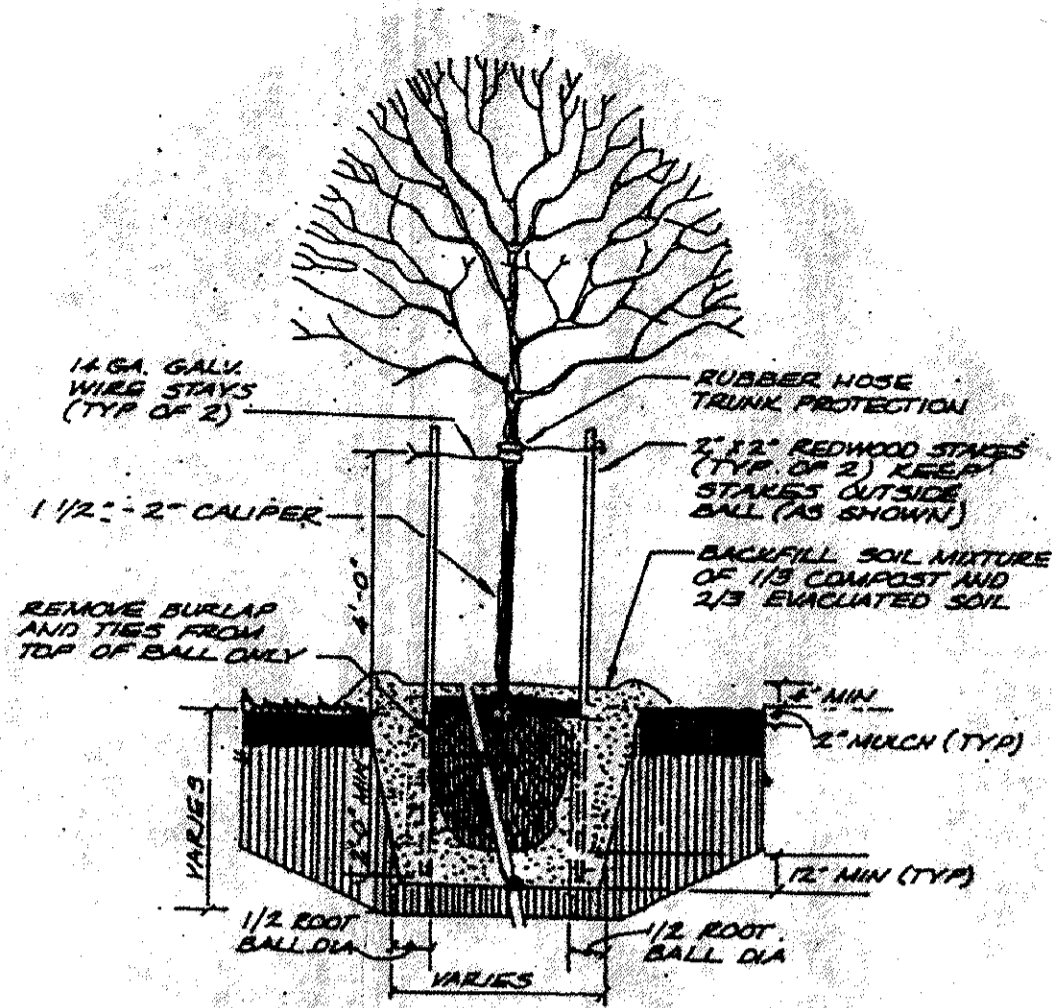
ISLAND AUTO REPAIR

PROJECT NO. 17835 SW PACIFIC HIGHWAY TUALATIN, OR 970602
 DRAWN J.C.
 CHECKED J.C.
 DATE 09.08.2020
 THESE DOCUMENTS ARE PREPARED FOR THE OWNER OR OWNER'S REPRESENTATIVE FOR DESIGN. DESIGNER, OR STRUCTURAL CALCULATIONS AND SUBMITTED FOR AND PAID FOR BY THE OWNER. OWNER'S REPRESENTATIVE OR LICENSED BUILDING CONTRACTOR, AS REQUIRED BY INSPECTIONS ARE TO BE CONDUCTED WITH THE APPROPRIATE CITY OR COUNTY JURISDICTION.

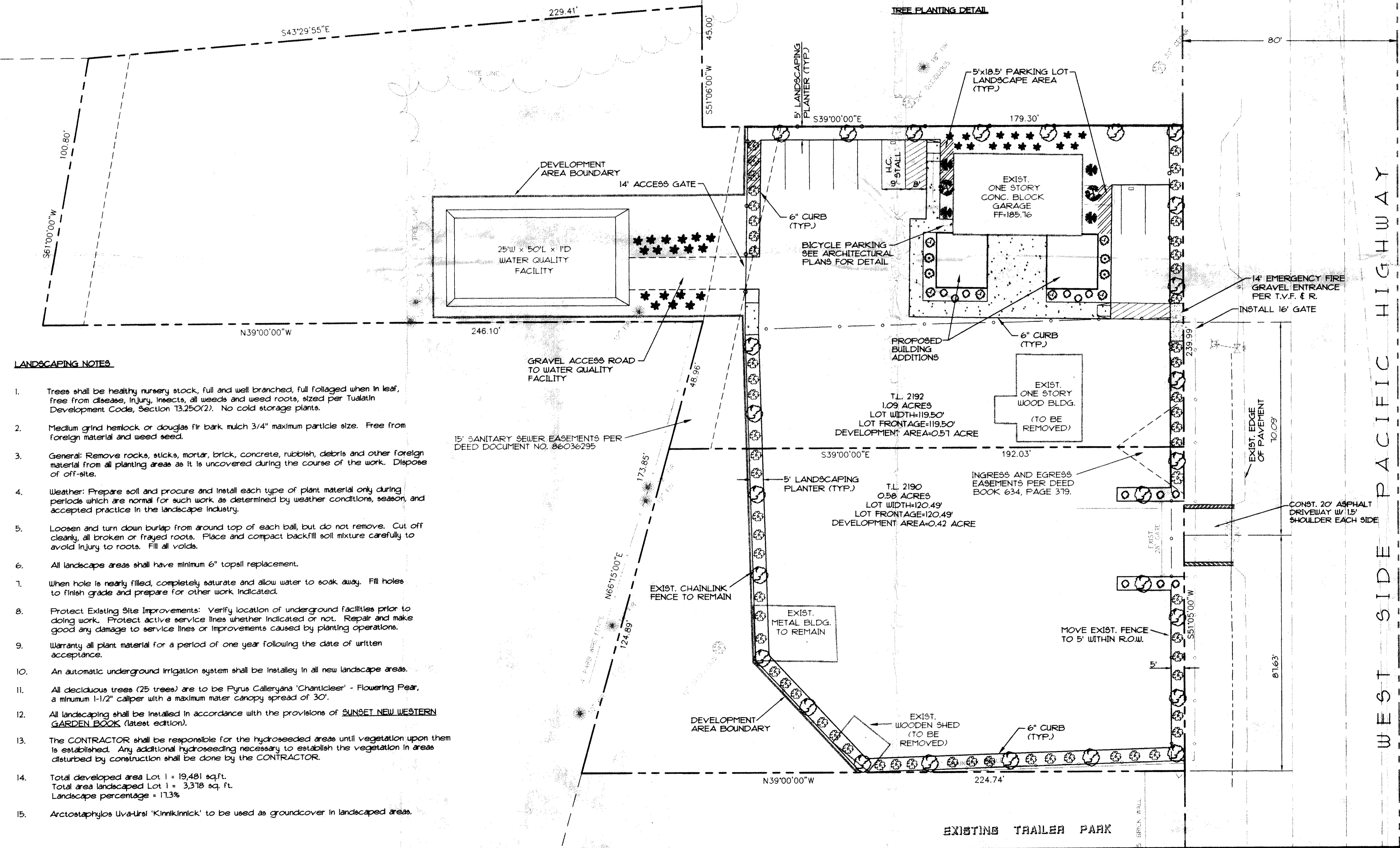
S1



SCALE: 1" = 20'



TREE PLANTING DETAIL



LANDSCAPING NOTES

1. Trees shall be healthy nursery stock, full and well branched, full foliated when in leaf, free from disease, injury, insects, all weeds and weed roots, sized per Tualatin Development Code, Section 13.250(2). No cold storage plants.
2. Medium grind hemlock or douglas fir bark mulch 3/4" maximum particle size. Free from foreign material and weed seed.
3. General: Remove rocks, sticks, mortar, brick, concrete, rubbish, debris and other foreign material from all planting areas as it is uncovered during the course of the work. Dispose of off-site.
4. Weather: Prepare soil and procure and install each type of plant material only during periods which are normal for such work as determined by weather conditions, season, and accepted practice in the landscape industry.
5. Loosen and turn down burlap from around top of each ball, but do not remove. Cut off cleanly, all broken or frayed roots. Place and compact backfill soil mixture carefully to avoid injury to roots. Fill all voids.
6. All landscape areas shall have minimum 6" topsoil replacement.
7. When hole is nearly filled, completely saturate and allow water to soak away. Fill holes to finish grade and prepare for other work indicated.
8. Protect Existing Site Improvements: Verify location of underground facilities prior to doing work. Protect active service lines whether indicated or not. Repair and make good any damage to service lines or improvements caused by planting operations.
9. Warranty all plant material for a period of one year following the date of written acceptance.
10. An automatic underground irrigation system shall be installed in all new landscape areas.
11. All deciduous trees (25 trees) are to be *Pyrus Calleryana* 'Chanticleer' - Flowering Pear, a minimum 1-1/2" caliper with a maximum water canopy spread of 30'.
12. All landscaping shall be installed in accordance with the provisions of SUNSET NEW WESTERN GARDEN BOOK (latest edition).
13. The CONTRACTOR shall be responsible for the hydroseeded areas until vegetation upon them is established. Any additional hydroseeding necessary to establish the vegetation in areas disturbed by construction shall be done by the CONTRACTOR.
14. Total developed area Lot 1 = 19,481 sq.ft.
Total area landscaped Lot 1 = 3,378 sq. ft.
Landscape percentage = 17.3%
15. *Arctostaphylos Uva-Ursi* 'Kinnikinnick' to be used as groundcover in landscaped areas.

LEGEND

- PROPOSED LANDSCAPING
- 26 *Pyrus Calleryana* 'Chanticleer' Select Ornamental Pear
 - 2 *Acer Circinatum* Vine Maple
 - 6 *Chamaecyparis Obtusa* Hinok False Cypress
 - 33 *Juniperus Horizontalis* 'Wiltonii' Blue Carpet Juniper
 - 4 *Nandina Domestica* 'Mayers Red' Heavenly Bamboo
 - 12 *Nandina Domestica* 'Nana' Heavenly Bamboo
 - 44 *Photinia Fraseri* Evergreen Shrub
 - 4 *Viburnum Tinus* 'Laurustinus' Evergreen Shrub
- EXISTING TREES WITH DESCRIPTION
- -

WESTLAKE CONSULTANTS INC.

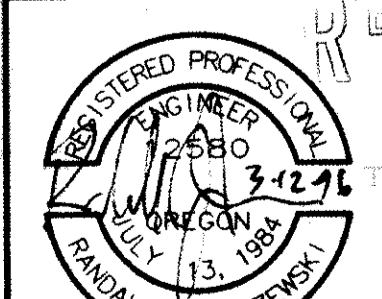
ENGINEERING SURVEYING PLANNING
PACIFIC CORPORATE CENTER
13100 N. TIGARD ROAD, TIGARD, OREGON 97224
(503) 864-0888
(503) 864-0187
FAX

OREGON AUTO CENTER
CITY OF TUALATIN
LANDSCAPE PLAN

THESE DRAWINGS ARE THE PROPERTY OF WESTLAKE CONSULTANTS INC. (WCI) AND ARE NOT TO BE REPRODUCED IN ANY MANNER EXCEPT WITH THE WRITTEN PERMISSION OF WCI

NO.	DATE	DESCRIPTION	DESIGN BY	DRAWN BY	CHECK BY	ENGR. BY	CAD. COMP.

CITY OF TUALATIN
PLANNING DEPARTMENT
APPROVED PLANS
AR: 95-53
DATE: 3/3/96
BY: [Signature]

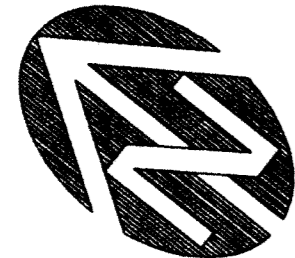


PRINTED BY
MAR 12 1996

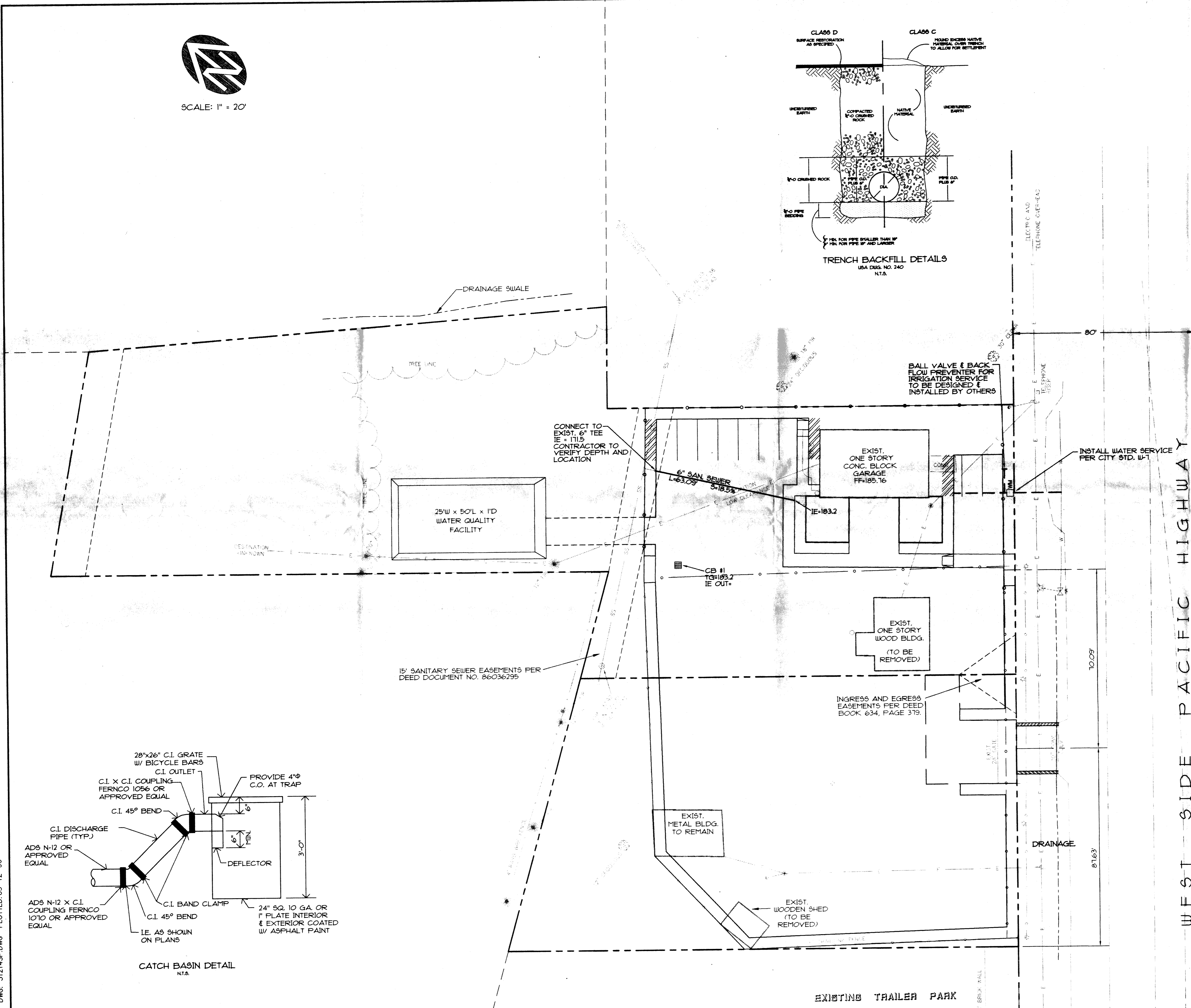
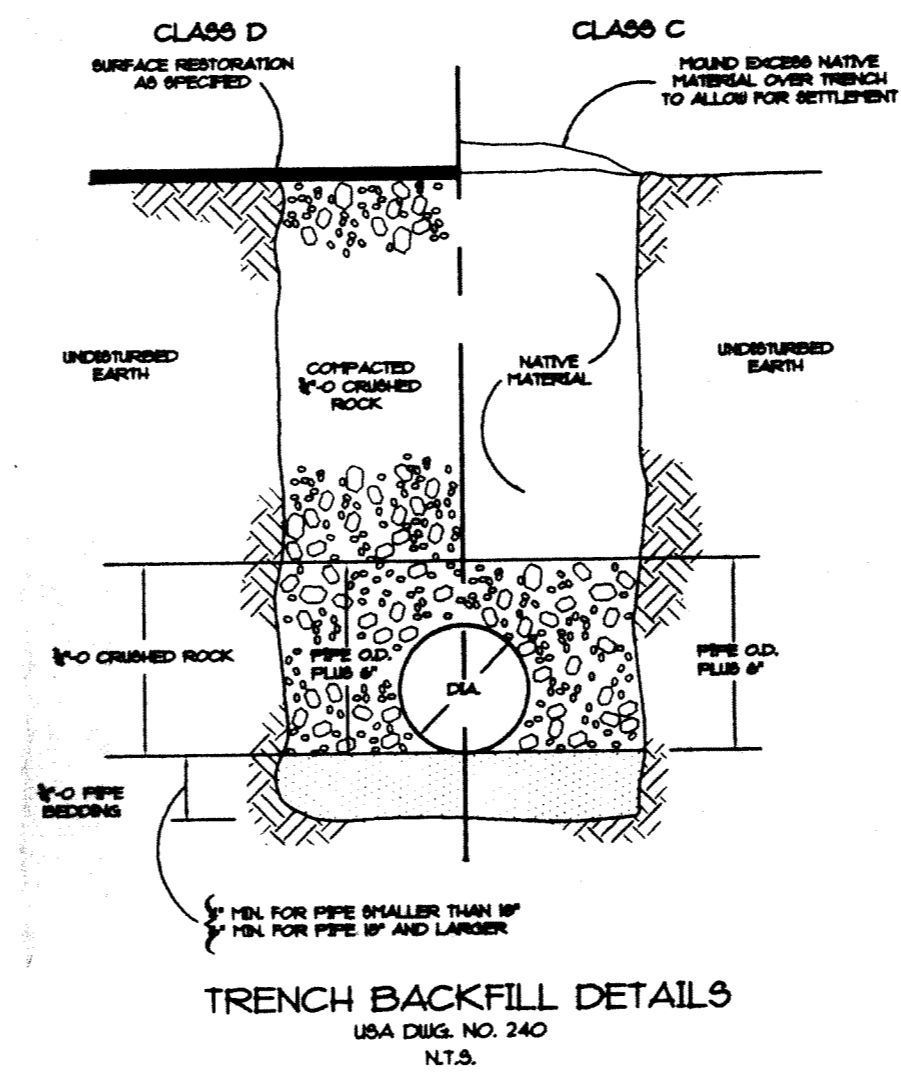
Westlake Consultants, Inc.

12-31-96
RENEWAL DATE

NO. DATE
SHEETS
4 OF 4
JOB NO.
312-14
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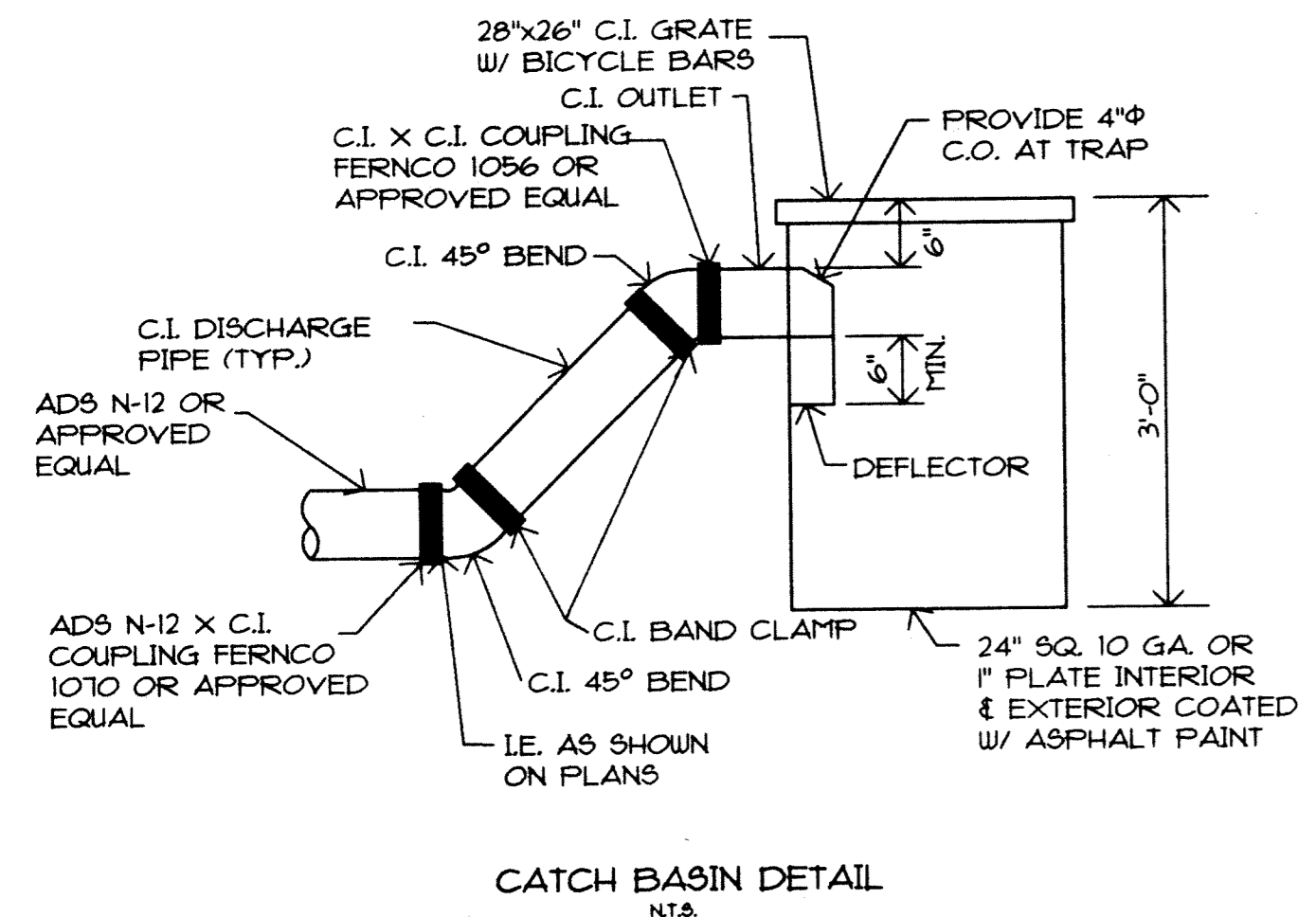
SCALE: 1" = 20'



WEST SIDE PACIFIC HIGHWAY

CITY OF TUALATIN
PLANNING DEPARTMENT
APPROVED PLANS
AR: 95-53
DATE: 3/13/96
BY: [Signature]

- LEGEND**
- PROPOSED STORM LINE
 - PROPOSED SANITARY LINE
 - PROPOSED WATERLINE
 - PROPOSED CATCH BASIN
 - PROPOSED MANHOLE
 - EXISTING FIRE HYDRANT
 - EXISTING STORM LINE
 - EXISTING SANITARY LINE
 - EXISTING WATER LINE
 - EXISTING CATCH BASIN
 - EXISTING MANHOLE

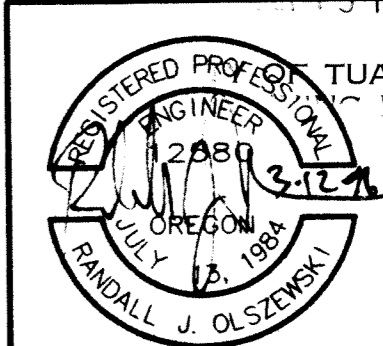


WESTLAKE CONSULTANTS INC.
ENGINEERING • SURVEYING • PLANNING
PACIFIC CORPORATE CENTER
18115 S.W. SEAVOIA PARKWAY, SUITE 100
TIGARD, OREGON 97224
(503) 894-0652
FAX (503) 894-0107

OREGON AUTO CENTER
CITY OF TUALATIN
UTILITY PLAN

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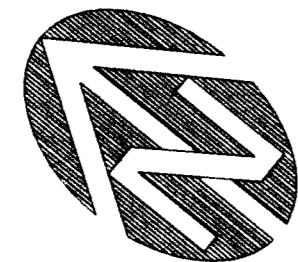
NO.	DATE	DESCRIPTION	DESIGN BY	DRAFT BY	CHECK BY	ENGR. BY	CAD. COMP.



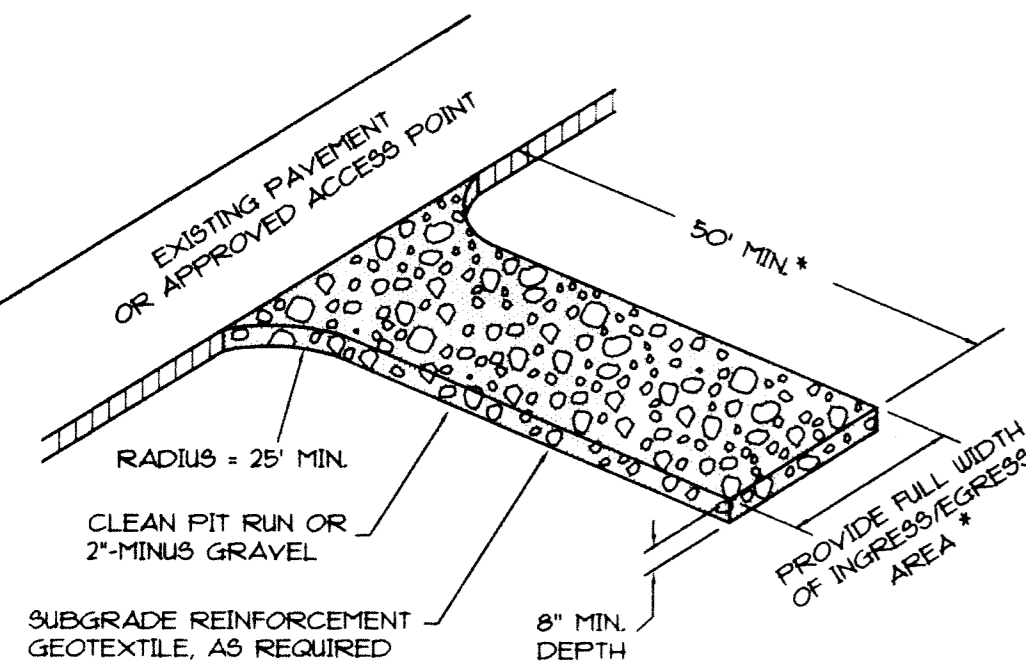
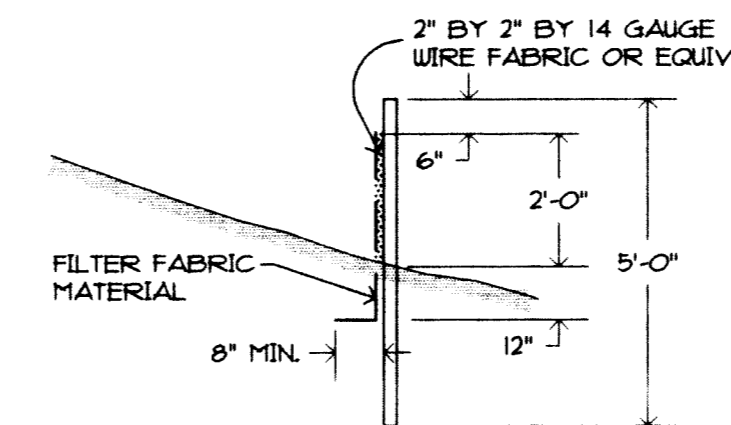
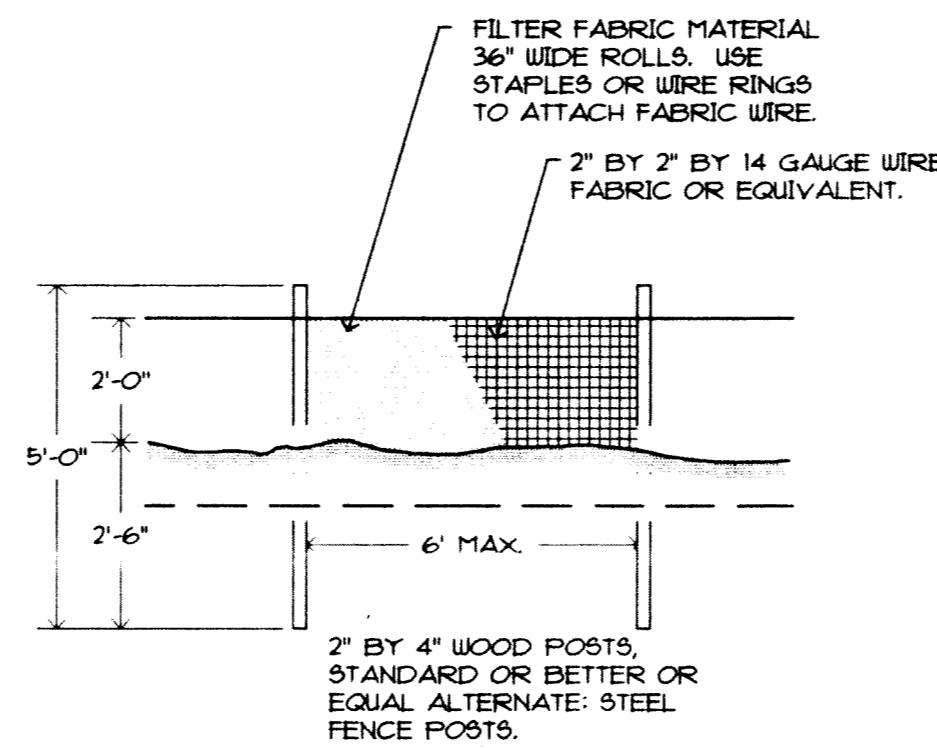
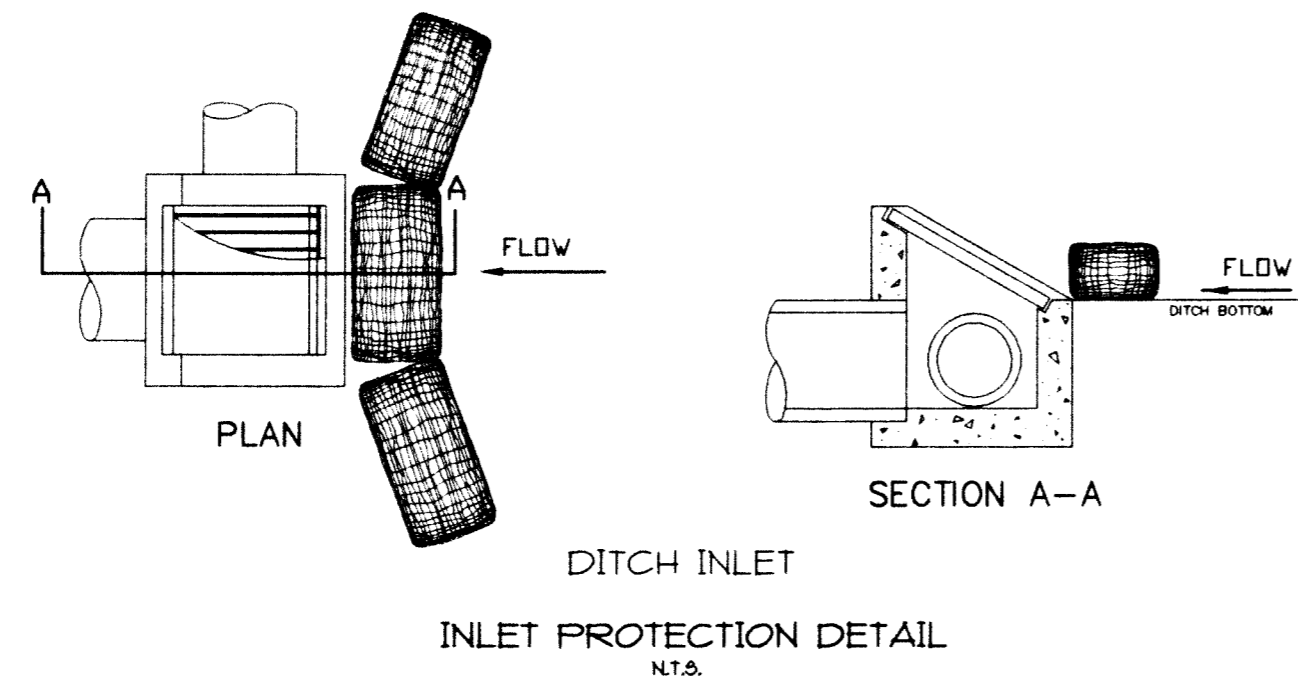
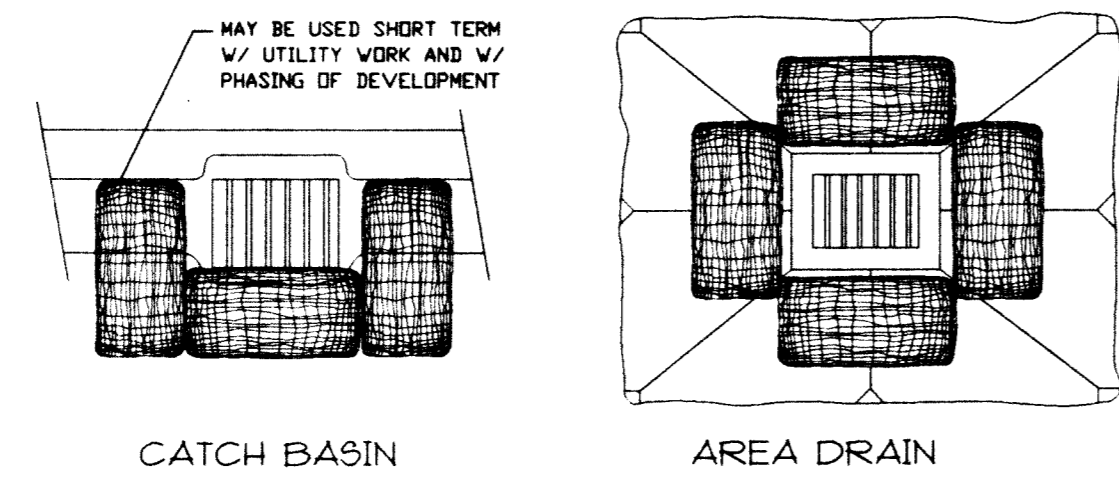
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MAR 12 1996
Westlake Consultants, Inc.

SHEET
2 OF **4**
JOB NO.
312-14

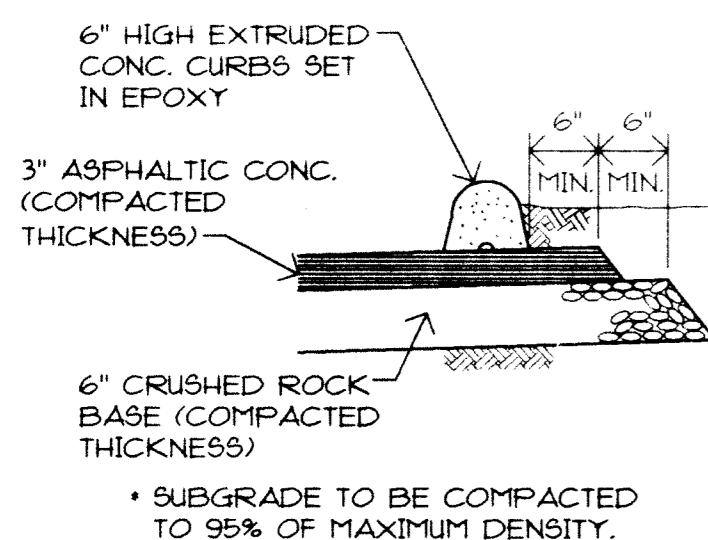
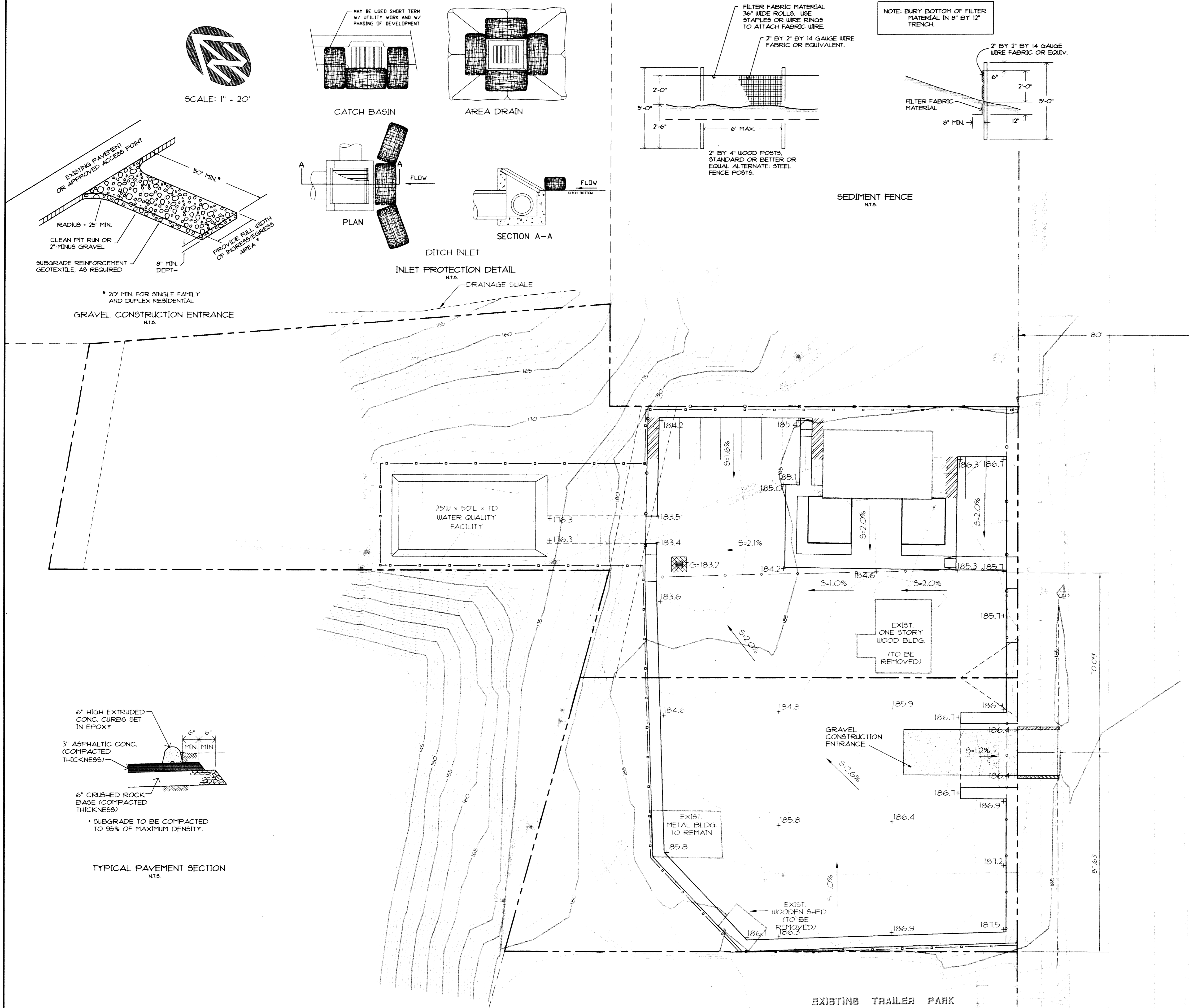
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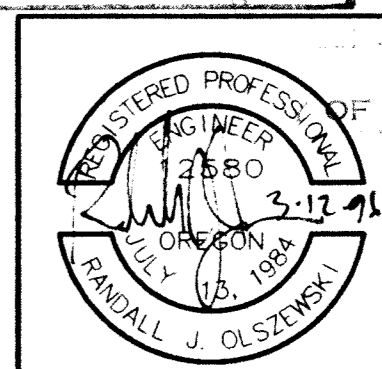
* 20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL
GRAVEL CONSTRUCTION ENTRANCE
NTS.



TYPICAL PAVEMENT SECTION
NTS.

- LEGEND**
- PROPOSED EROSION CONTROL FENCE
 - PROPOSED INLET BARRIER
 - +183.6 PROPOSED SPOT ELEVATIONS
 - PROPOSED CATCH BASIN

CITY OF TUALATIN
PLANNING DEPARTMENT
EROSION CONTROL PLAN
AR: 95-53
DATE: 3/13/96
BY: [Signature]



PRINTED BY
MAR 12 1996

Westlake Consultants, Inc.

12-31-96
RENEWAL DATE

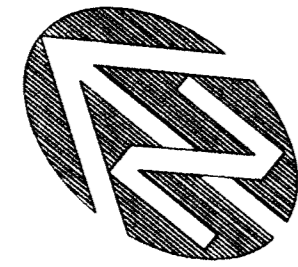
WESTLAKE
CONSULTANTS INC.
ENGINEERING • SURVEYING • PLANNING
PACIFIC CORPORATE CENTER
15115 S.W. SEQUOIA PARKWAY, SUITE 150
TIGARD, OREGON 97224
(503) 884-0852
FAX (503) 884-0157

OREGON AUTO CENTER
CITY OF TUALATIN
GRADING AND EROSION CONTROL

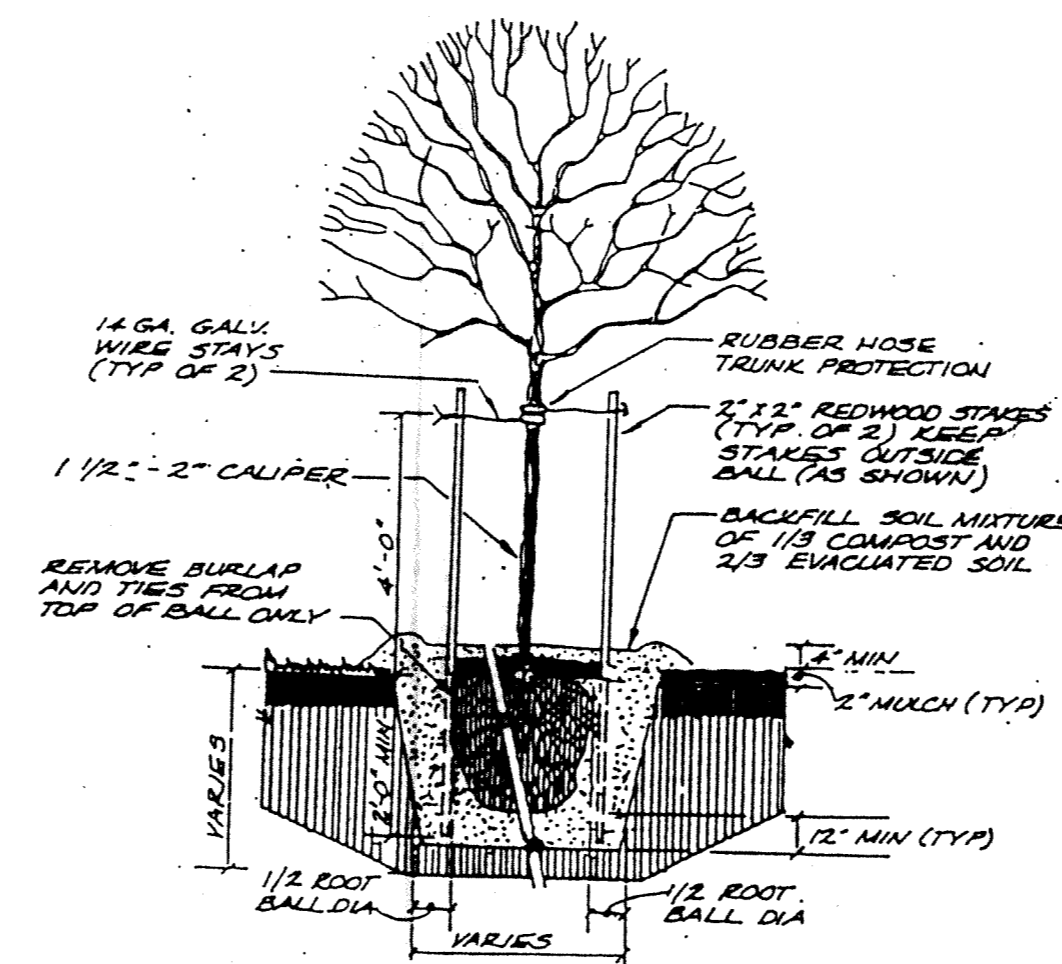
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NO.	DATE	DESCRIPTION	DESIGN BY	DRAWN BY	CHECK BY	ENGR. BY	CAD COMP.
1	3/13/96	PRELIMINARY	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
2							
3							
4							

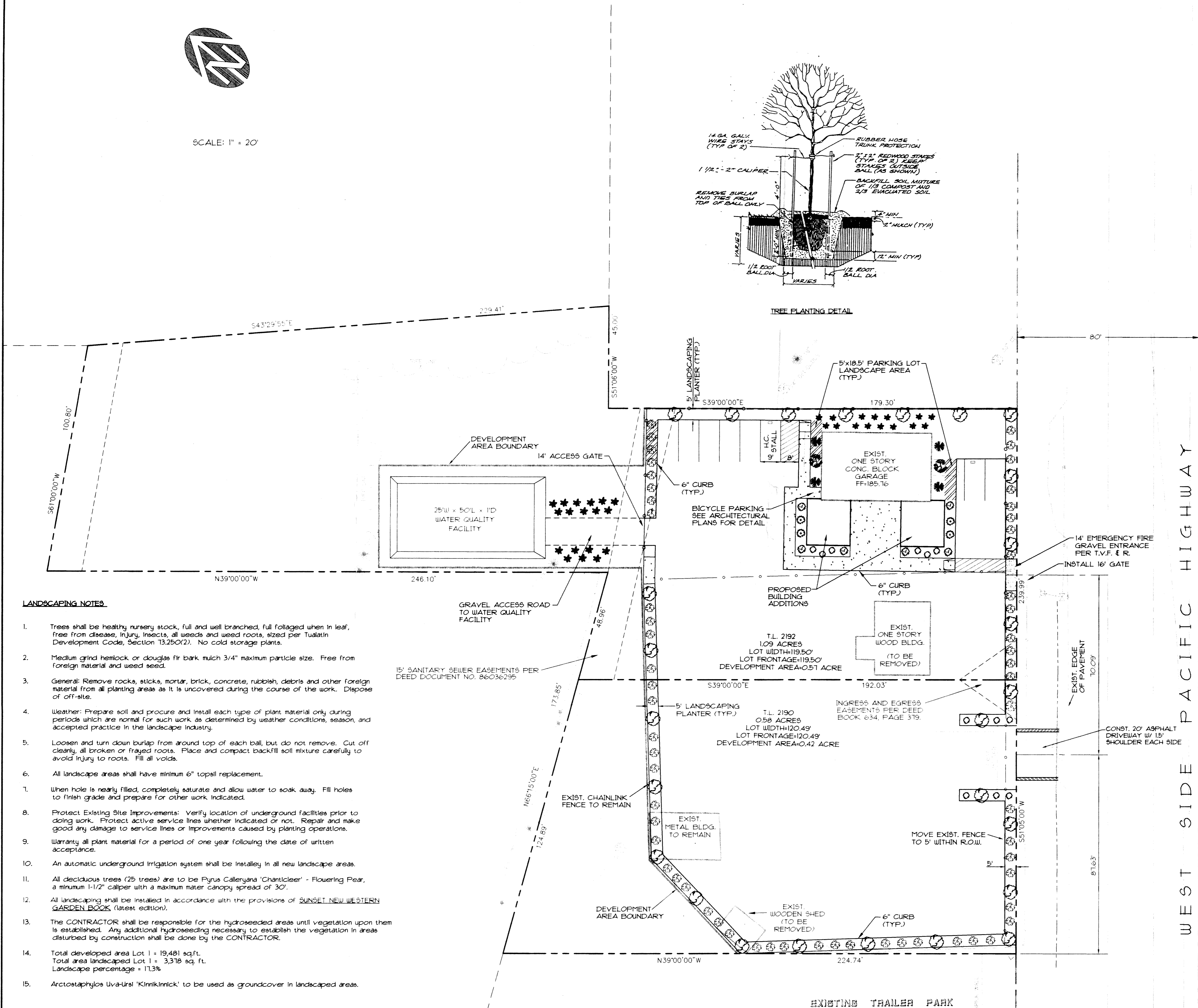
REVISION SHEET
3 OF **4**
JOB NO. 312-14



SCALE: 1" = 20'



TREE PLANTING DETAIL



LANDSCAPING NOTES

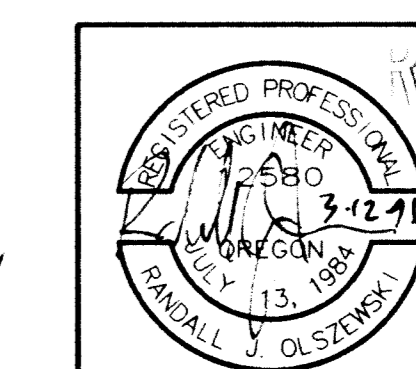
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14. Total developed area Lot 1 = 19,481 sq. ft. Total area landscaped Lot 1 = 3,378 sq. ft. Landscape percentage = 17.3%...
15. Arctostaphylos Uva-Ursi 'Kinnikinnick' to be used as groundcover in landscaped areas.

LEGEND

- PROPOSED LANDSCAPING
26 Pyrus Calleryana 'Cleveland Select' Ornamental Pear
2 Acer Circinatum Vine Maple
6 Chamaecyparis Obtusa Hink! False Cypress
33 Juniperus Horizontalis 'Wiltonii' Blue Carpet Juniper
4 Nandina Domestica 'Moyers Red' Heavenly Bamboo
12 Nandina Domestica 'Nana' Heavenly Bamboo
44 Photinia Fraseri Evergreen Shrub
4 Viburnum Tinus 'Laurustinus' Evergreen Shrub

EXISTING TREES WITH DESCRIPTION

CITY OF TUALATIN PLANNING DEPARTMENT APPROVAL STAMP with date 3/13/96 and signature.



PRINTED BY MAR 12 1996 Westlake Consultants, Inc.

RENEWAL DATE 12-31-96

WESTLAKE CONSULTANTS INC. ENGINEERING SURVEYING PLANNING
PACIFIC CORPORATE CENTER
16115 S.W. SEASIDE PARKWAY, SUITE 150
TIGARD, OREGON 97224
(503) 884-0652
FAX (503) 824-0167

OREGON AUTO CENTER
CITY OF TUALATIN
LANDSCAPE PLAN

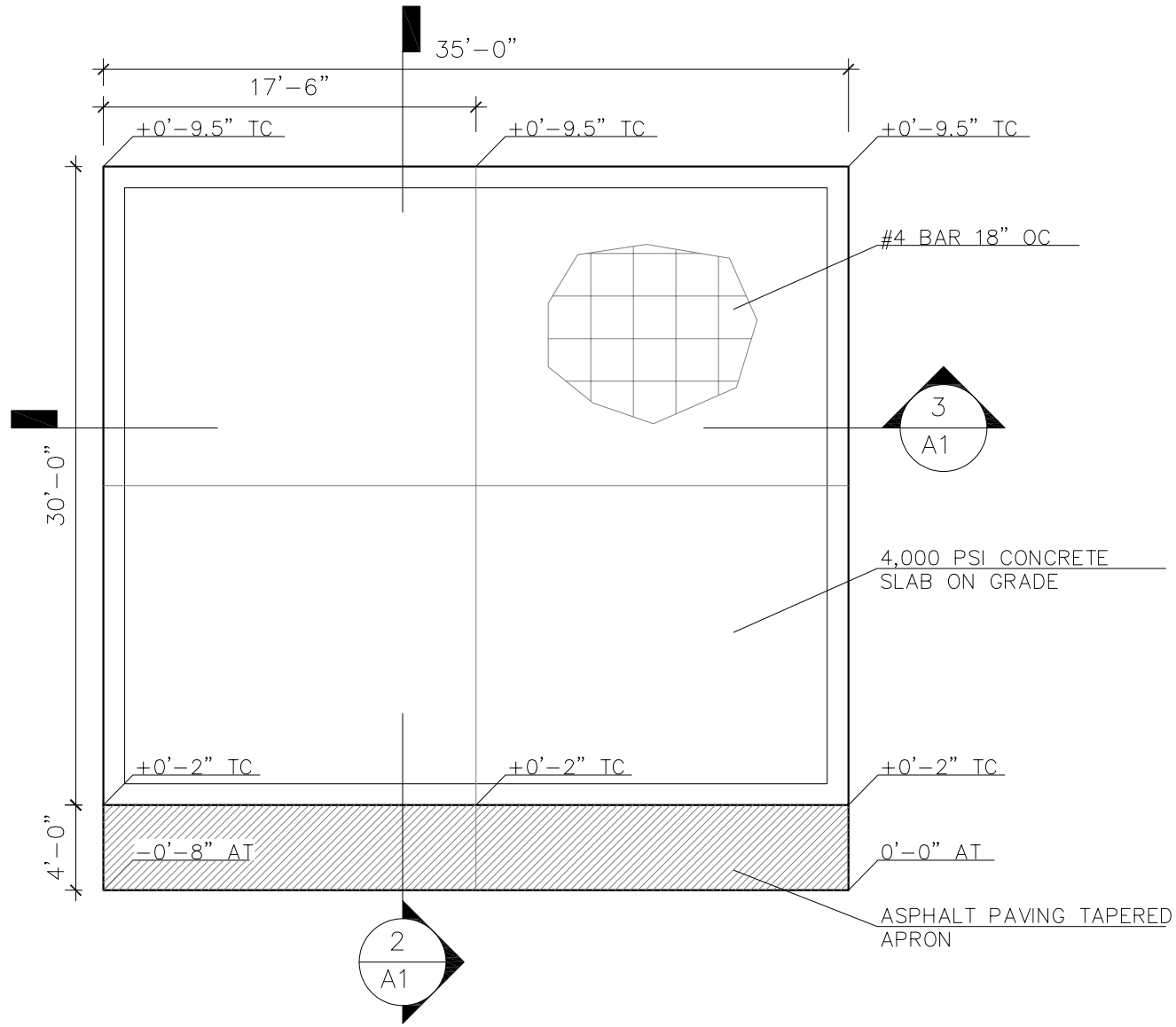
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Table with columns: NO., DATE, DESIGN BY, DRAFT BY, CHECK BY, ENGIN. BY, CAD COMP.

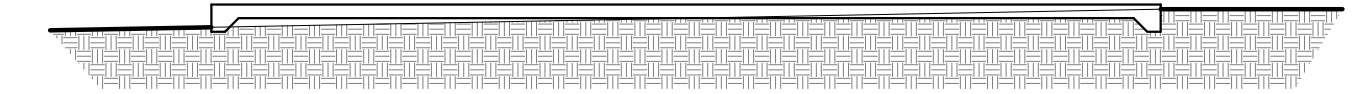
REVISIONS: 1 3/13/96
SHEET 4 OF 4
JOB NO. 312-14

DWG: 31214SP.DWG PLOTTED: 03-12-96

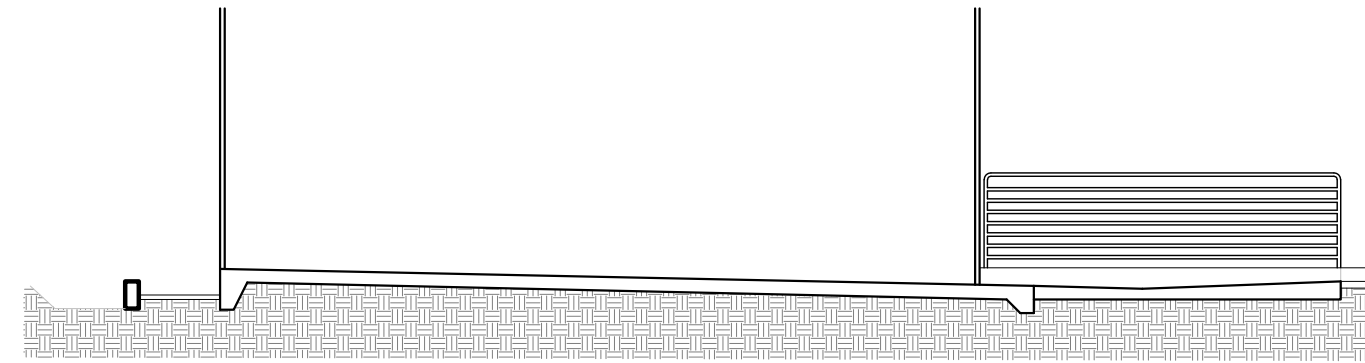
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A1 1st floor plan: $1/8" = 1' - 0"$



A3 E & W Section: $1/8" = 1' - 0"$



A2 N & S Section: $1/8" = 1' - 0"$

These documents are prepared for the owner or owner's representative for design intent. All structural calculations and design details are the responsibility of the engineer. The engineer's representative or licensed building contractor, if required, is responsible for the construction of the project. Inspections are to be conducted by the appropriate city or county jurisdiction.

PROJECT NO. 17835 SW PACIFIC HIGHWAY TUALATIN, OR 970602
 DRAWN J.C.
 CHECKED J.C.
 DATE 09.08.2020

ISLAND AUTO REPAIR

A1



REGULAR / A-FRAME 30'-0" WIDE CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, OSHA, AISC 360, AISI 100, ASCE 7-16, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA. IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

PREVAILING CODE:	OSSC 2019 (IBC 2018)
USE GROUP:	U (CARPORTS, BARN)
RISK CATEGORY:	1
1. DEAD LOAD (D)	D = 4 PSF
2. ROOF LIVE/SNOW LOAD (Lr)	Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4)
3. SNOW LOAD (S)	
GROUND SNOW LOAD	P _g = 20 - 90 PSF
IMPORTANCE FACTOR	I _s = 0.8
THERMAL FACTOR	C _t = 1.2
EXPOSURE FACTOR	C _e = 1.0
ROOF SLOPE FACTOR	C _s = 1.0
4. WIND LOAD (W)	
BASIC WIND SPEED	V _{ULT} = 105 - 180 MPH
EXPOSURE	C
5. SEISMIC LOAD (E)	
DESIGN CATEGORY	D
IMPORTANCE FACTOR	I _e = 1.00

LOAD COMBINATIONS:

1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

DRAWING INDEX

COVER SHEET	----	1
SCHEDULES & MEMBER -		
SECTIONS	----	2
FRAME SECTIONS & DETAILS	----	3
SPACING SCHEDULES -		
& ENCLOSURE NOTES	----	4
PURLIN & GIRT SCHEDULES	----	5
SHEATHING OPTIONS	----	6
SIDE WALL FRAMING		
& OPENINGS	----	7-A, 7-B
END WALL FRAMING		
& OPENINGS	----	8-A, 8-B
CORNER BRACING DETAILS	----	9
OPTIONAL LEAN-TO ADDITION	----	10
FOUNDATION OPTIONS	----	11-A TO 11-D

MANUFACTURED BY:



CARPORTS, INC.

22525 Interstate 40
Knoxville, AR 72845
1-866-267-3790

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

6036 Renaissance Place • Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

COVER SHEET

SHEET NO.: 1 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:



CUSTOMER INFORMATION

OWNER: **Ramin Sabeti**
ADDRESS: **17835 SW Pacific Hwy
Tualatin, OR 97062**

DESIGN LOADS

GROUND SNOW: **40**
ROOF LIVE LOAD: **27**
BASIC WIND SPEED: **105**

BUILDING INFORMATION

WIDTH: **30**
LENGTH: **35**
HEIGHT: **12**

FRAME TYPE: A-FRAME
 REGULAR
ENCLOSURE TYPE: FULL
 PARTIAL
 OPEN

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS EXPIRATION: **FEB 01 2022**
CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

DATE EXPIRES: **DEC 31, 2021**

DATE SIGNED: **FEB 01, 2021**

TABLE 2.1: MEMBER PROPERTIES

NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE W/ 2.25" X 2.25" X 12GA TUBE INSERT	11
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" X 14GA TUBE	1
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 18GA / 14GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 18GA / 14GA HAT CHANNEL	5
10	SHEATHING	29 GA CORRUGATED SHEET	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25 X 6" X 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	ALL FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	

TABLE 2.2: SHEATHING FASTENER SCHEDULE

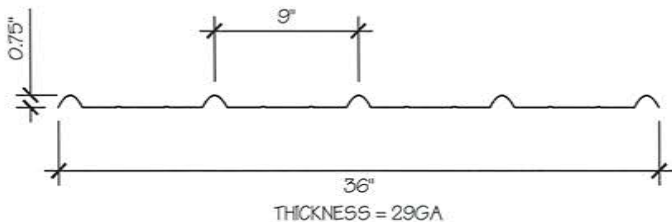
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4 1/2" C/C	9" C/C

FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

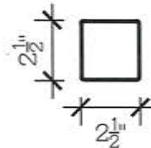
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.

TABLE 2.3: GAUGE THICKNESS

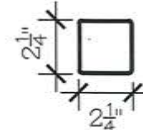
GAUGE	29	18	14	12
THICKNESS (IN)	0.0135	0.049	0.083	0.109



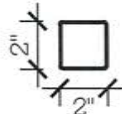
29 GA CORRUGATED SHEATHING (8)
SCALE: NTS



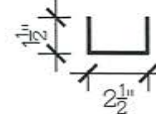
THICKNESS = 14GA
2.5" X 2.5" 14GA TUBE (1)
SCALE: NTS



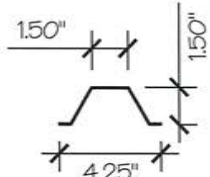
THICKNESS = 12GA
2.25" X 2.25" 12GA TUBE (2)
SCALE: NTS



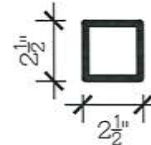
THICKNESS = 14GA
2" X 2" 14GA TUBE (3)
SCALE: NTS



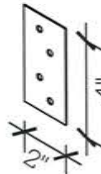
THICKNESS = 14GA
2.5" X 1.5" 14GA CHANNEL (4)
SCALE: NTS



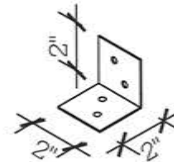
THICKNESS = 14GA / 18GA
4.25" X 1.5" X 18GA / 14GA HAT CHANNEL (5)
SCALE: NTS



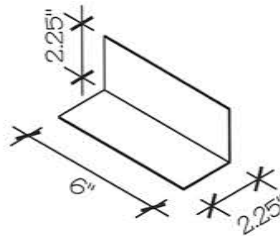
2.5" X 2.5" X 14GA TUBE W/ 2.25" X 2.25" X 12GA TUBE INSERT (11)
SCALE: NTS
NOTE: INSERT FULL LENGTH & FIELD BOLT W/ [23] FASTENERS @ 12" C/C STAGGERED OPPOSITE FACE



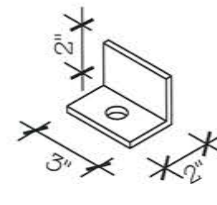
THICKNESS = 14GA
STRAIGHT BRACKET (6)
SCALE: NTS



THICKNESS = 14GA
ANGLE BRACKET (7)
SCALE: NTS



THICKNESS = 14GA
DB BRACKET (9)
SCALE: NTS



THICKNESS = 3/16"
BASE ANGLE (10)
SCALE: NTS

MANUFACTURED BY:



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Knoxville, AR 72845
1-866-267-3790

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

6036 Renaissance Place • Toledo, OH 43623
Tel. 419-992-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

SCHEDULES &
MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

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DATE EXPIRES: DEC 31, 2021

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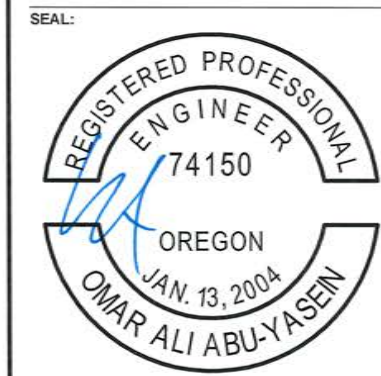
DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF OREGON
PROJECT NO.: 031-21-0237
SHEET TITLE:
FRAME SECTIONS & DETAILS

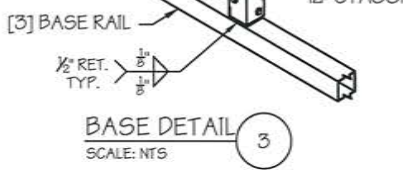
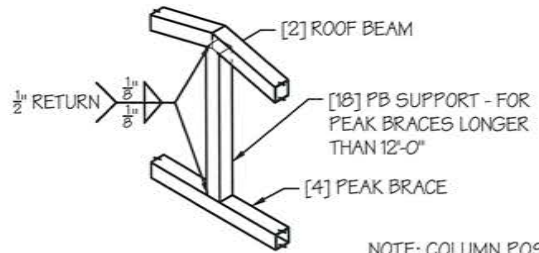
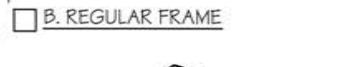
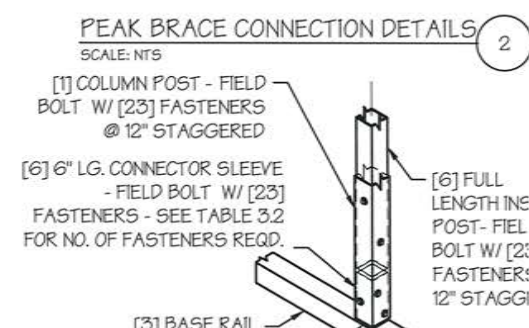
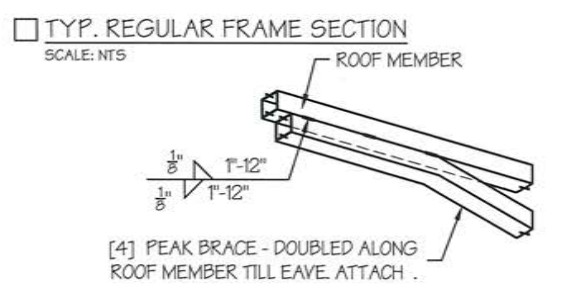
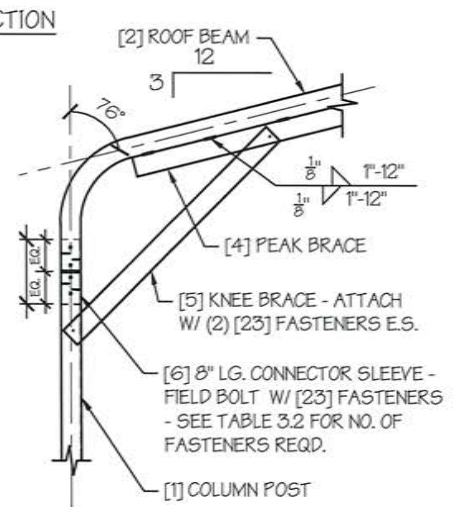
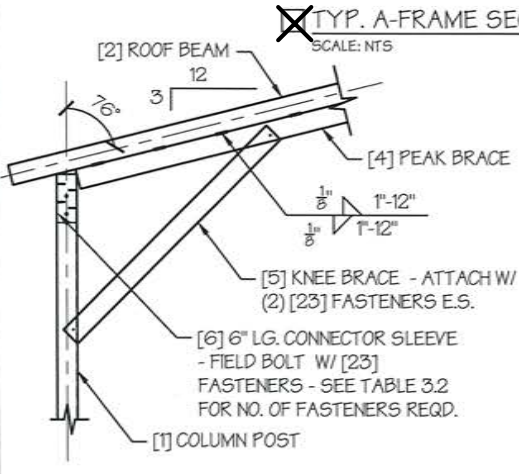
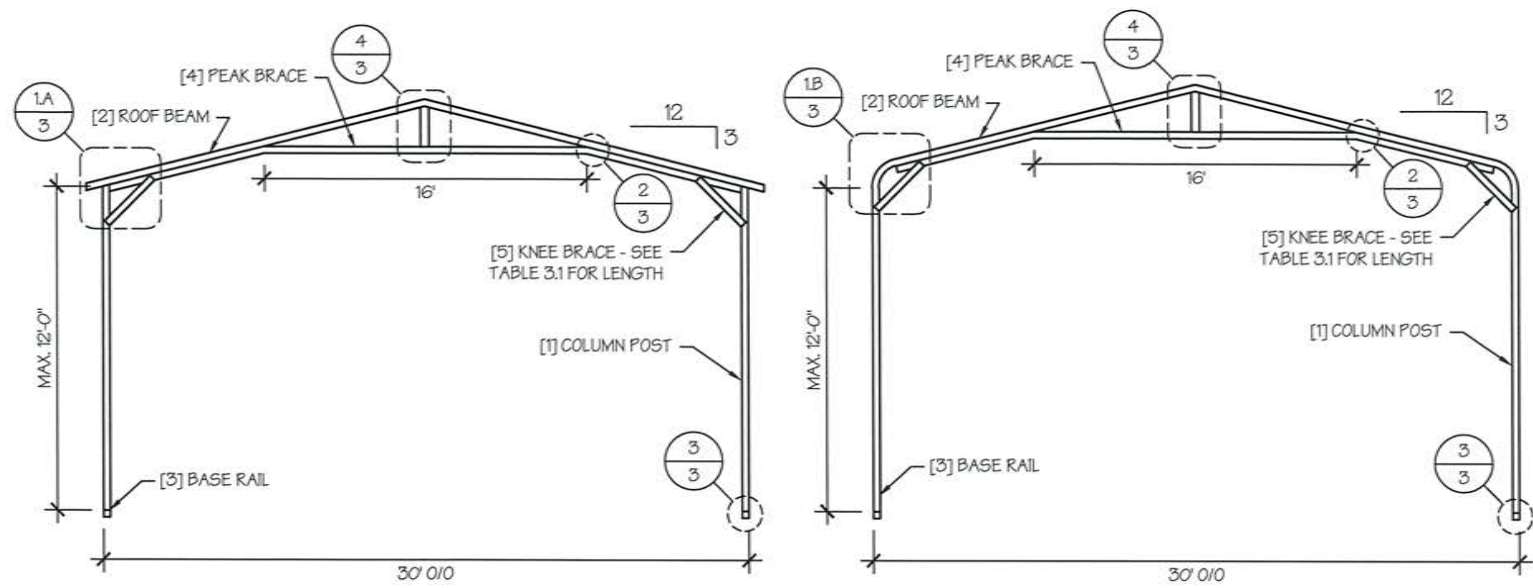
SHEET NO.: 3 / 11
DRAWN BY: A.W. DATE: 2/1/21
CHECKED BY: OAA DATE: 2/1/21

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DATE SIGNED: **FEB 01, 2021**



NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING.
MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

TABLE 3.1: KNEE BRACE SCHEDULE

EAVE HEIGHT	KNEE BRACE LENGTH
<input type="checkbox"/> UP TO 8'	24"
<input checked="" type="checkbox"/> 9' TO 12'	36"

TABLE 3.2 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
<input checked="" type="checkbox"/> 105 TO 125	4
<input type="checkbox"/> 130 TO 155	6
<input type="checkbox"/> 160 TO 180	8

TABLE 4: FRAME SPACING CHART / SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	ENCLOSED BUILDINGS							OPEN BUILDINGS						
	WIND SPEED (MPH)													
	105	115	130	140	155	165	180	105	115	130	140	155	165	180
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/48	42	36/42	36	30
40 / 27	48/60	48/60	42/60	42/54	48	42/48	36/42	48	48	42/48	42	36/42	36	30
50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36	36	30
60 / 41	36/42	36/42	36	36	36	36	36	36	36	30	30	30	30	24
70 / 47	32/36	32/36	32/36	32/36	30	30	30	30	30	30	24	24	24	24
80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	---
90 / 61	18	18	18	18	---	---	---	18	18	---	---	---	---	---
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/54	42/48	36/42	36/42	30/36
40 / 27	48/60	48/60	42/60	48/54	48	42/48	36/42	48	48	42/48	42/48	36/42	36/42	30/36
50 / 34	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36/42	36	30/36
60 / 41	36/48	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	30/36
70 / 47	32/36	32/36	32/36	32/36	32/36	30	30	30	30	30	30	30	30	24
80 / 54	30	30	30	30	30	30	30	24	24	24	24	24	24	24
90 / 61	24	24	24	24	24	24	24	18	18	18	18	18	18	18
30 / 20	60	60	54/60	54	48	42/48	36/42	54	48/54	42/54	42/54	36/48	36/48	30/36
40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	36/42	48	48	42/48	42/48	36/48	36/48	30/36
50 / 34	40/54	40/54	40/54	40/48	40/48	40/48	36/42	40/42	40/42	40/42	40/42	36/42	36/42	30/36
60 / 41	36/48	36/48	36/48	36/48	36/42	36/42	36/42	36	36	36	36	36	36	30/36
70 / 47	32/42	32/42	32/36	32/36	32/36	32/36	30	32/36	32/36	30	30	30	30	24
80 / 54	30/36	30/36	30/36	30/36	30/36	30	30	30	30	30	30	30	24	24
90 / 61	30/36	30/36	30	30	30	30	30	24	24	24	24	---	---	---

EAVE HEIGHT = 10'-0" TO 12'-0"
 EAVE HEIGHT = 7'-0" TO 9'-0"
 EAVE HEIGHT = UP TO 6'-0"

- NOTES:
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
 - WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
 - SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
 - FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION:

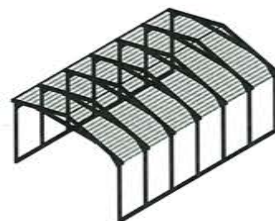
- ENCLOSED BUILDING** = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- OPEN BUILDING** = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 3FT PARTIALLY ENCLOSED** = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
- PARTIALLY ENCLOSED** = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
- 3 SIDED ENCLOSED** = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
- FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.

GENERAL NOTES:

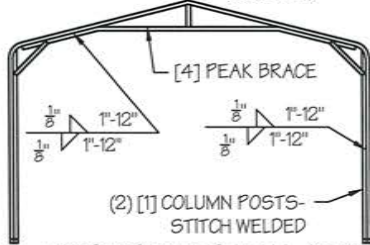
- THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
- BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).



TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS



TYP. OPEN END WALL ON 3 SIDE ENCLOSED BUILDING
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES

SHEET NO.: 4 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

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SEAL:

REGISTERED PROFESSIONAL ENGINEER
74150
OREGON
JAN. 13, 2004
OMAR ALI ABU-YASEIN

DATE EXPIRES: **DEC 31, 2021**

DATE SIGNED: **FEB 01, 2021**

TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	14GA. HAT CHANNEL PURLIN							18GA. HAT CHANNEL PURLIN						
	WIND SPEED (MPH)							WIND SPEED (MPH)						
	105	115	130	140	155	165	180	105	115	130	140	155	165	180
30/20	54	48	42	36	30	24	24	36	30	24	18	18	12	12
40/27	42	42	42	36	30	24	24	30	30	24	18	18	12	12
50/34	40	40	40	36	30	24	24	24	24	24	18	18	12	12
60/41	36	36	36	36	30	24	24	18	18	18	18	18	12	12
70/47	32	32	32	32	30	24	24	18	18	18	18	18	12	12
80/54	30	30	30	30	30	24	24	18	18	18	18	18	12	12
90/61	24	24	24	24	24	24	24	12	12	12	12	12	12	12
30/20	54	48	42	42	36	30	30	48	36	30	24	18	18	12
40/27	42	42	42	42	36	30	30	42	36	30	24	18	18	12
50/34	40	40	40	40	36	30	30	30	30	30	24	18	18	12
60/41	36	36	36	36	36	30	30	30	30	30	24	18	18	12
70/47	32	32	32	32	32	30	30	24	24	24	24	18	18	12
80/54	32	32	32	32	32	30	30	18	18	18	18	18	18	12
90/61	30	30	30	30	30	30	30	18	18	18	18	18	18	12
30/20	54	48	42	42	36	36	30	54	48	36	30	24	24	18
40/27	42	42	42	42	36	36	30	42	42	36	30	24	24	18
50/34	40	40	40	40	36	36	30	40	40	36	30	24	24	18
60/41	36	36	36	36	36	36	30	36	36	36	30	24	24	18
70/47	32	32	32	32	32	32	30	30	30	30	24	24	24	18
80/54	32	32	32	32	32	32	30	24	24	24	24	24	24	18
90/61	30	30	30	30	30	30	30	24	24	24	24	24	24	18
30/20	54	48	42	42	36	36	30	54	48	42	42	36	30	30
40/27	42	42	42	42	36	36	30	42	42	42	42	36	30	30
50/34	40	40	40	40	36	36	30	40	40	40	40	36	30	30
60/41	36	36	36	36	36	36	30	36	36	36	36	36	30	30
70/47	32	32	32	32	32	32	30	32	32	32	32	32	30	30
80/54	32	32	32	32	32	32	30	32	32	32	32	32	30	30
90/61	30	30	30	30	30	30	30	30	30	30	30	30	30	30

- NOTES:
- PURLIN SPACING UNITS ARE IN INCHES.
 - FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

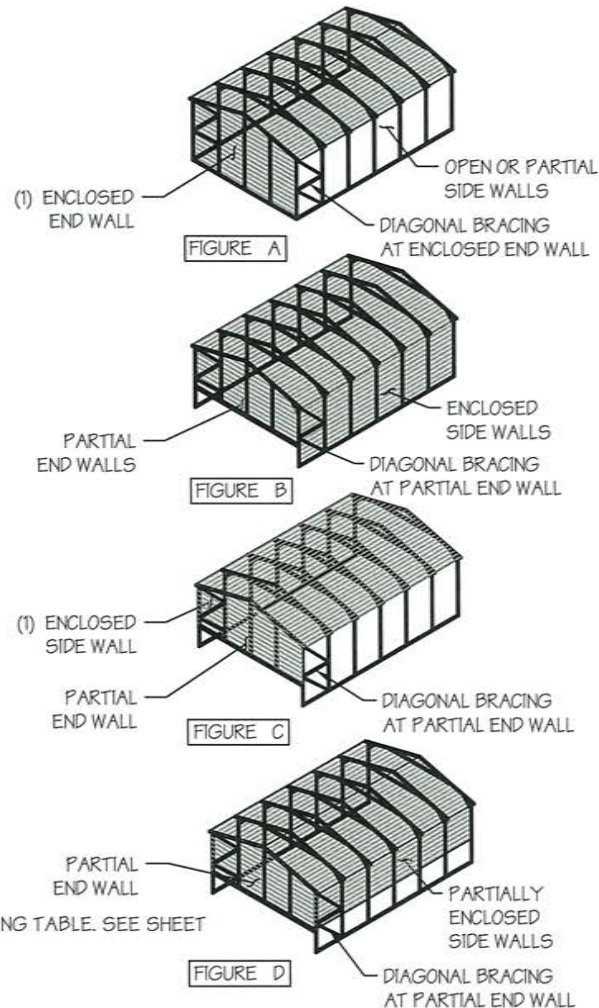
IRREGULAR BUILDING NOTES:

- FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
- FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
- SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)						
	105	115	130	140	155	165	180
5'-0"	60	48	36	30	24	24	18
4'-6"	60	60	48	42	36	30	24
4'-0"	60	60	54	54	42	36	30
3'-6"	60	60	54	54	48	42	42
2'-0" TO 3'-0"	60	60	54	54	48	42	42

- NOTES:
- GIRT SPACING UNITS ARE IN INCHES.
 - THIS SCHEDULE IS TO BE USED FOR BOTH 14GA AND 18 GA PURLINS.
 - FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.



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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

PURLIN & GIRT
SPACING SCHEDULES

SHEET NO.: 5 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

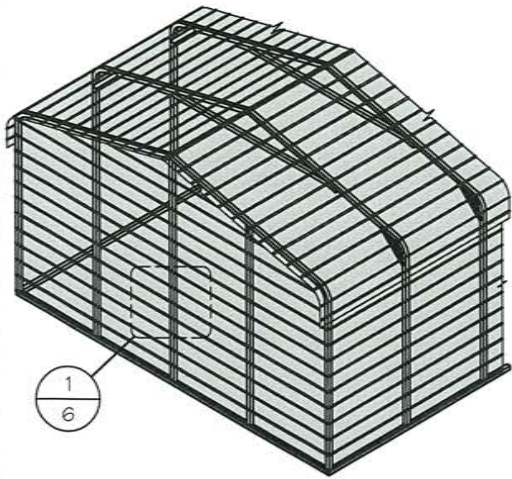
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SEAL:

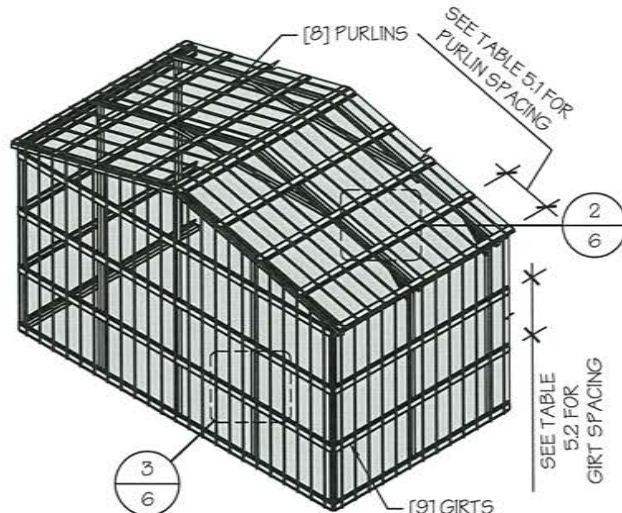


DATE EXPIRES: DEC 31, 2021

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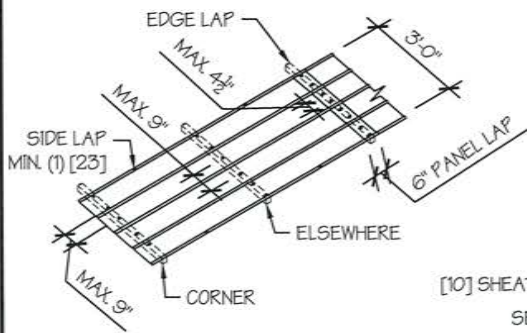
TYP. HORIZONTAL SHEATHING
SCALE: NTS



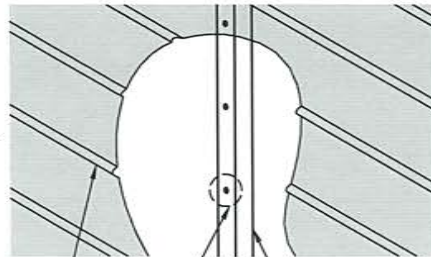
TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

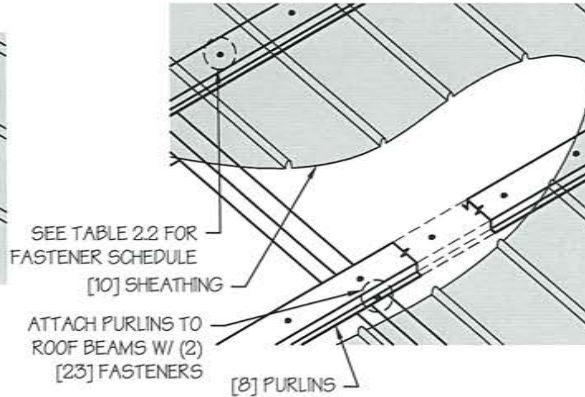
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
5. VERTICAL SHEATHING RECOMMENDED FOR BUILDINGS 30' OR LONGER



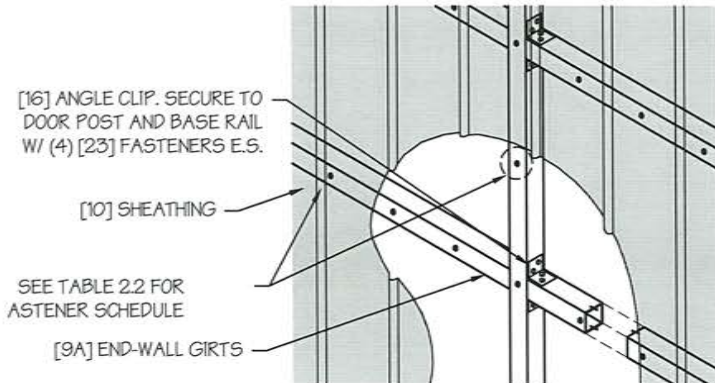
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



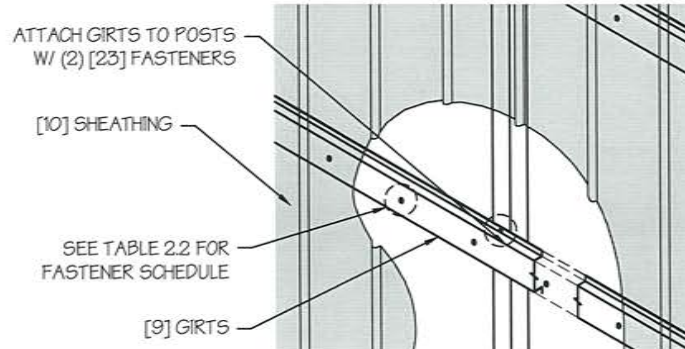
TYP. HORIZONTAL SHEATHING DETAIL
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL
SCALE: NTS



WALL VERTICAL SHEATHING - TUBE DETAIL
SCALE: NTS



WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL
SCALE: NTS

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Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

SHEATHING OPTIONS
& DETAILS

SHEET NO.: 6 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

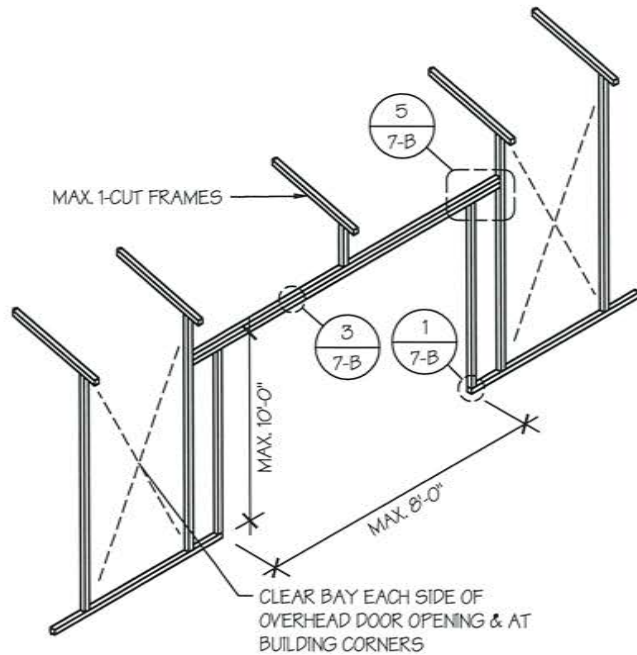
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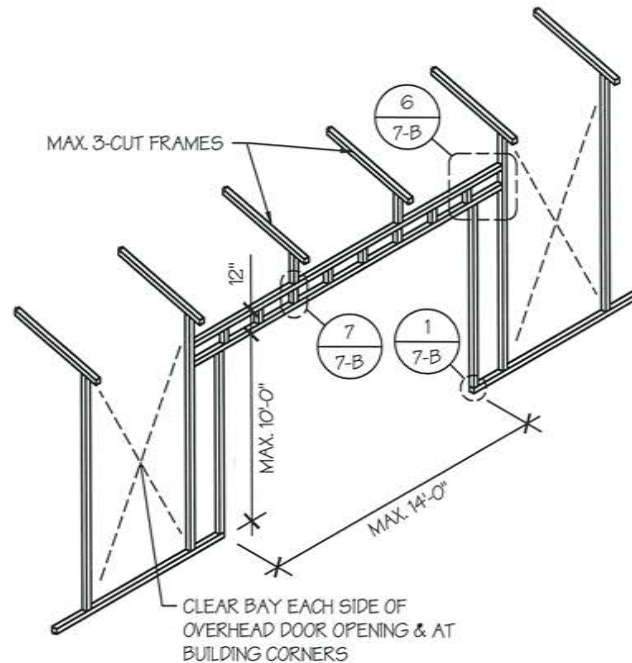


DATE EXPIRES: **DEC 31, 2021**

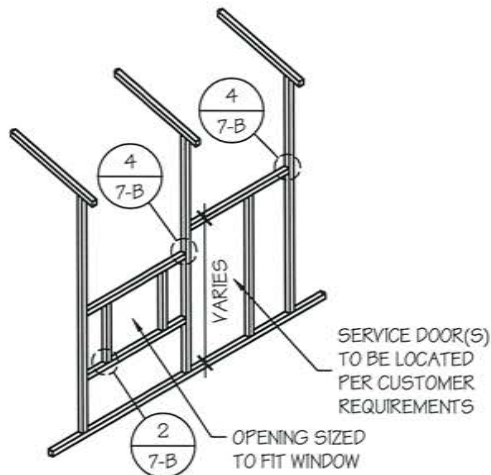
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SIDE WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER
SCALE: NTS



SIDE WALL SERVICE DOOR / WINDOW OPENINGS
SCALE: NTS

SIDE WALL FRAMING NOTES:

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
3. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
4. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
5. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
7. SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

SIDE WALL FRAMING
& OPENINGS

SHEET NO.: 7-A / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

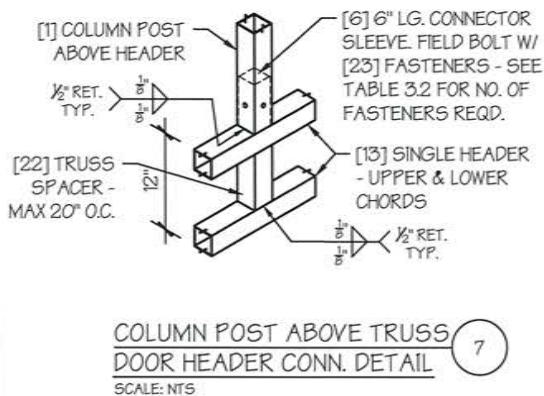
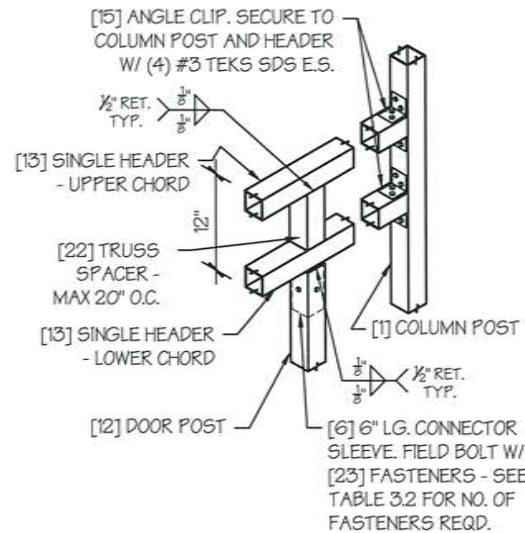
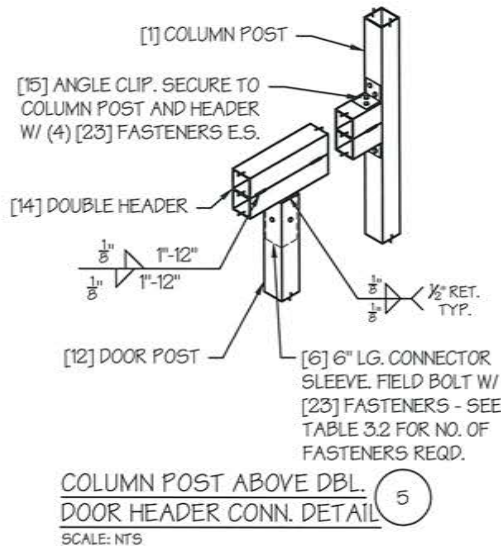
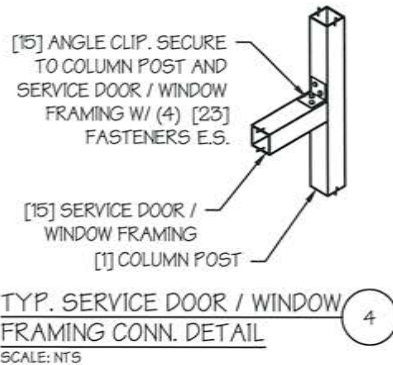
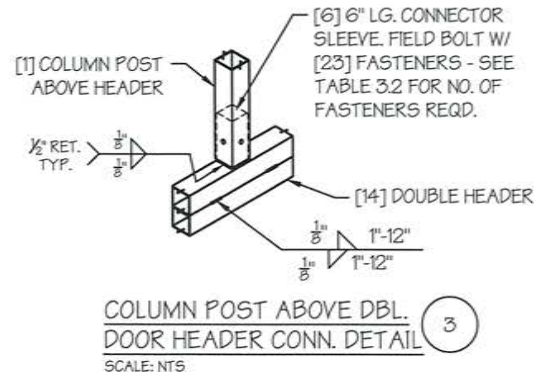
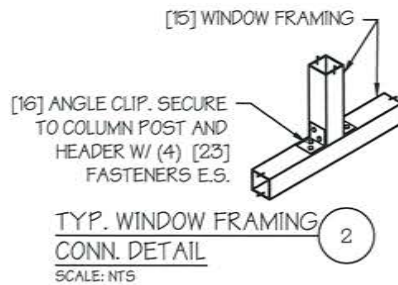
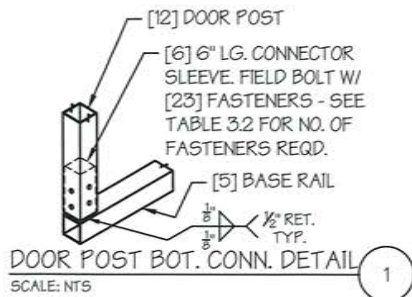
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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

**SIDE WALL FRAMING
DETAILS**

SHEET NO.: 7-B / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

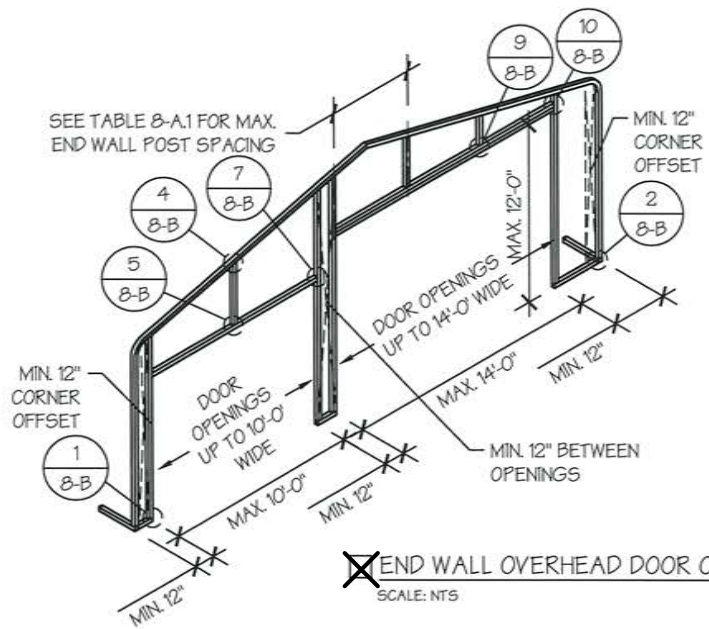
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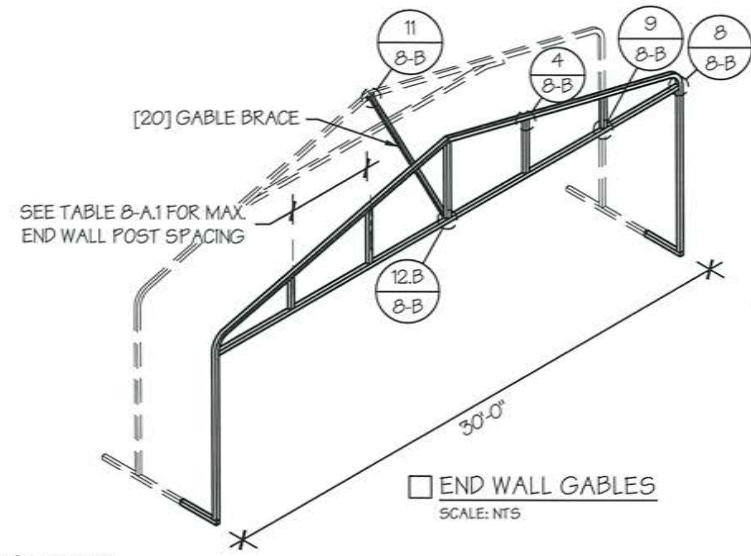


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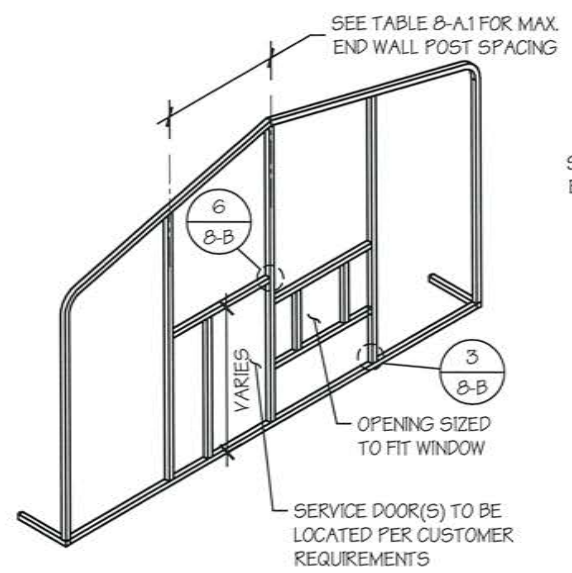
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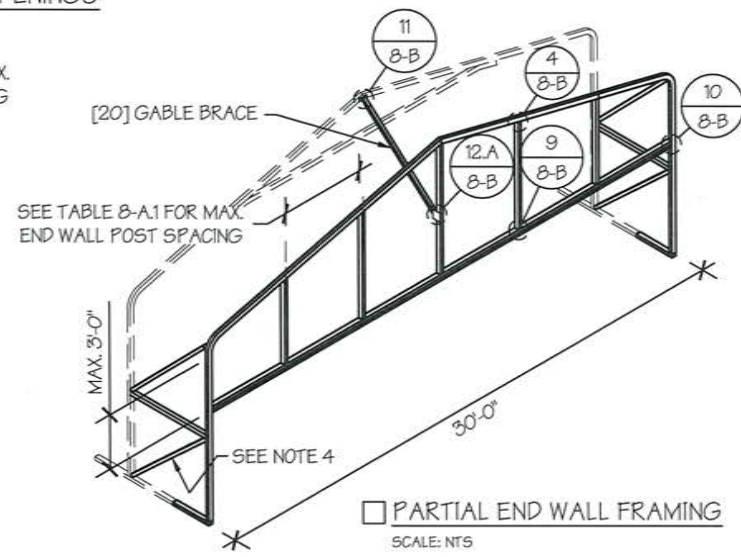
END WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



END WALL GABLES
SCALE: NTS



END WALL SERVICE DOOR AND WINDOW OPENINGS
SCALE: NTS



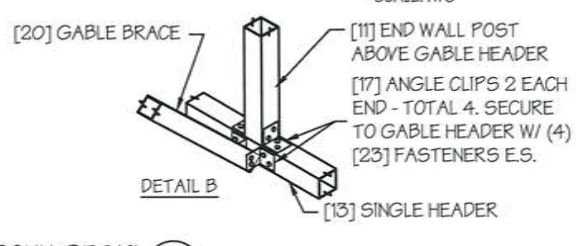
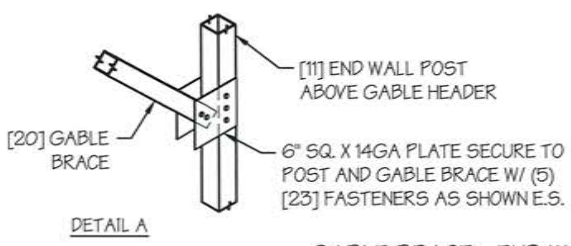
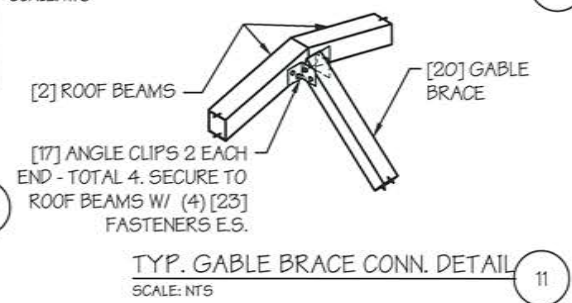
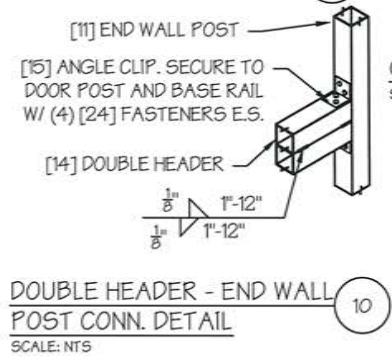
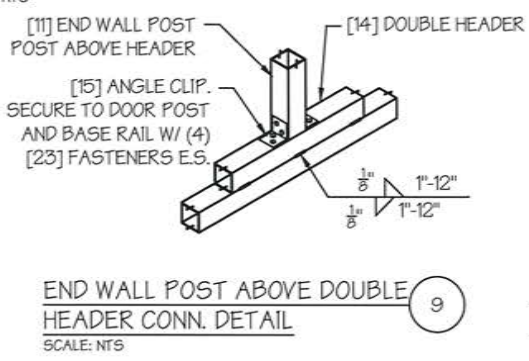
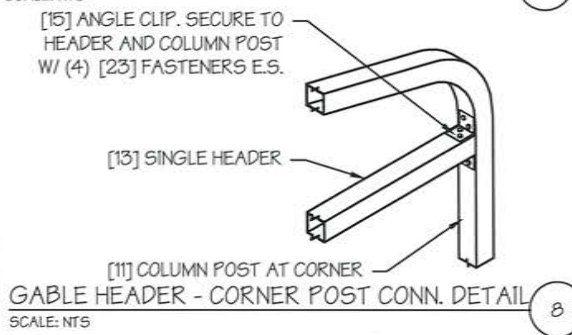
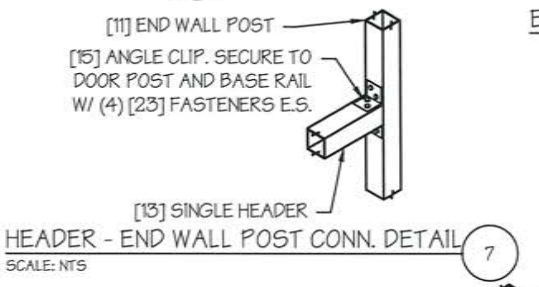
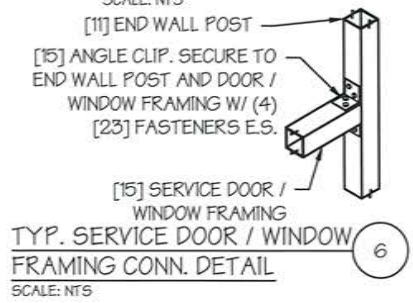
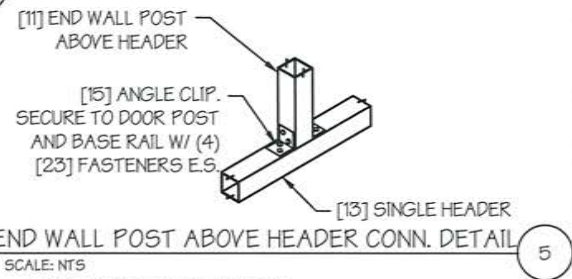
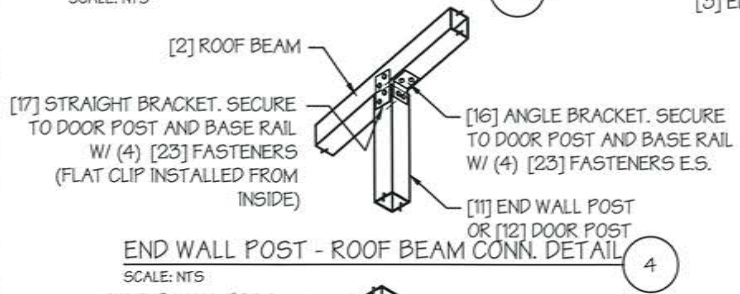
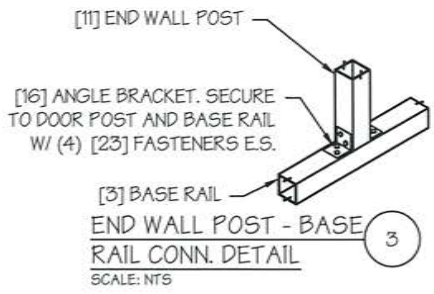
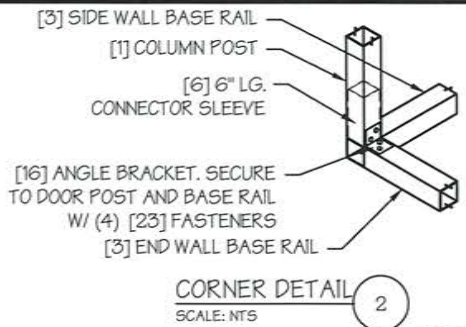
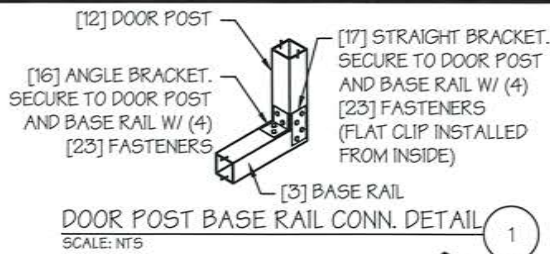
PARTIAL END WALL FRAMING
SCALE: NTS

TABLE 8-A.1: END WALL POST SPACING SCHEDULE

WIND SPEED (MPH)	EAVE HEIGHT		
	UP TO 7'	8' TO 9'	10' TO 12'
<input checked="" type="checkbox"/> 105	5'	5'	5'
<input type="checkbox"/> 115	5'	5'	4.5'
<input type="checkbox"/> 130	4.5'	4.5'	4'
<input type="checkbox"/> 140	4.5'	4.5'	3'
<input type="checkbox"/> 155	4'	4'	2.5'
<input type="checkbox"/> 165 - 180	3.5'	3'	2'

END WALL FRAMING NOTES:

- DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
- MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
- SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
- DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.



GABLE BRACE - END WALL CONN. DETAIL 12
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE: END WALL FRAMING DETAILS

SHEET NO.: B-B / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

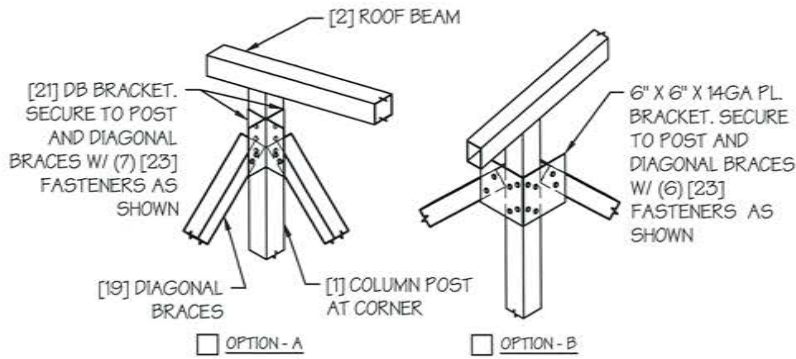
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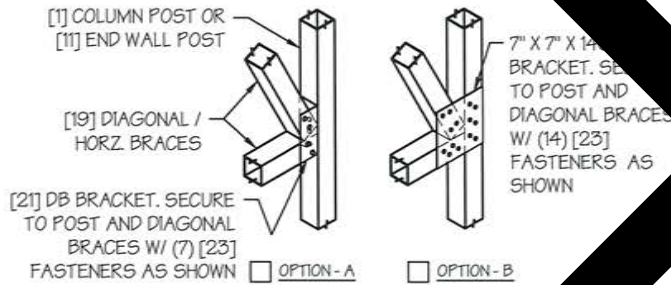
SEAL:

REGISTERED PROFESSIONAL ENGINEER
74150
OREGON
JAN. 13, 2004
OMAR ALI ABU-YASEIN

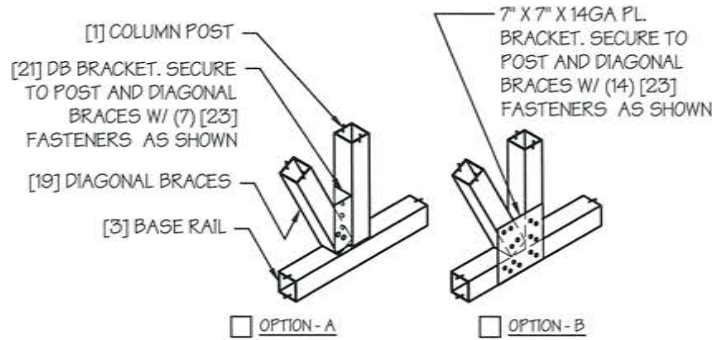
DATE EXPIRES: **DEC 31, 2021**
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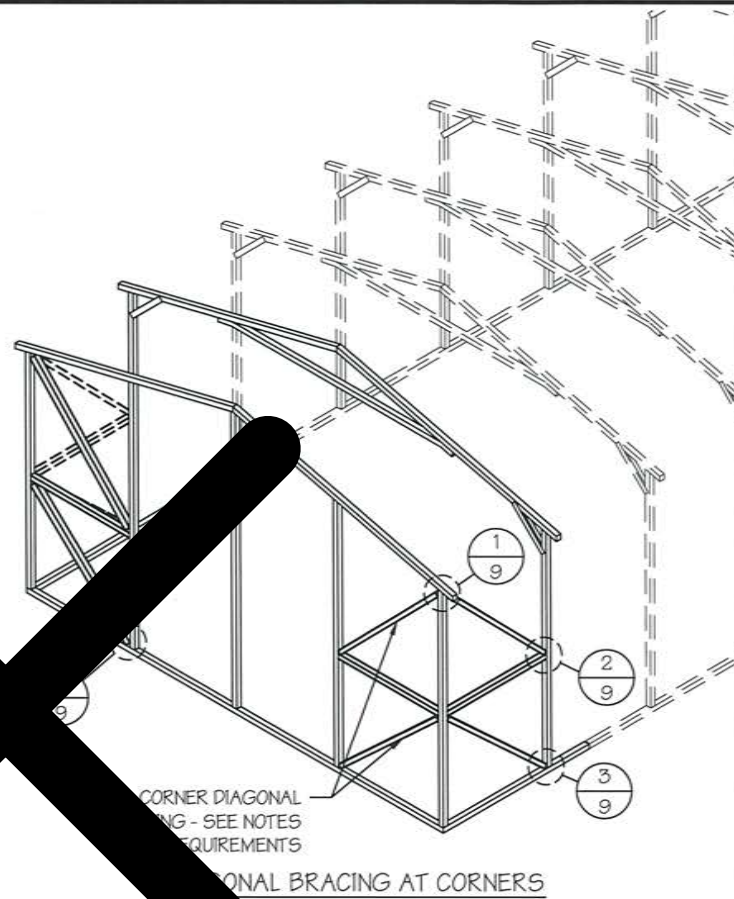
DIAGONAL BRACE TOP CORNER CONN. DETAIL* (1)
SCALE: NTS



DIAGONAL BRACE - POST CONN. DETAIL* (2)
SCALE: NTS



DIAGONAL BRACE BOT. CORNER CONN. DETAIL* (3)
SCALE: NTS



CORNER BRACING NOTES:

- DIAGONAL BRACING AT BUILDING CORNERS IS REQUIRED FOR ALL BUILDINGS IN LOCATIONS WHERE WIND SPEED IS 140 MPH OR GREATER.
 - FOR 3 SIDED ENCLOSED BUILDINGS 140 MPH OR GREATER WIND SPEED - THE BUILDING MUST BE DESIGNED WITH OPEN BUILDING SPACING AND DIAGONAL BRACING IS REQUIRED ON ALL ENCLOSED WALLS.
- SIDE-WALL DIAGONAL BRACING IS REQUIRED WHEN THE ADJACENT END-WALL IS PARTIALLY ENCLOSED.
- ALL BUILDINGS WITH IRREGULAR ENCLOSURE (SEE SHEET 5) WILL REQUIRE SIDE-WALL BRACING CLOSE TO THE PARTIALLY ENCLOSED END-WALL.

* INSIDE VIEW SHOWN FOR CLARITY

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

CORNER BRACING
DETAILS

SHEET NO.: 9 / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

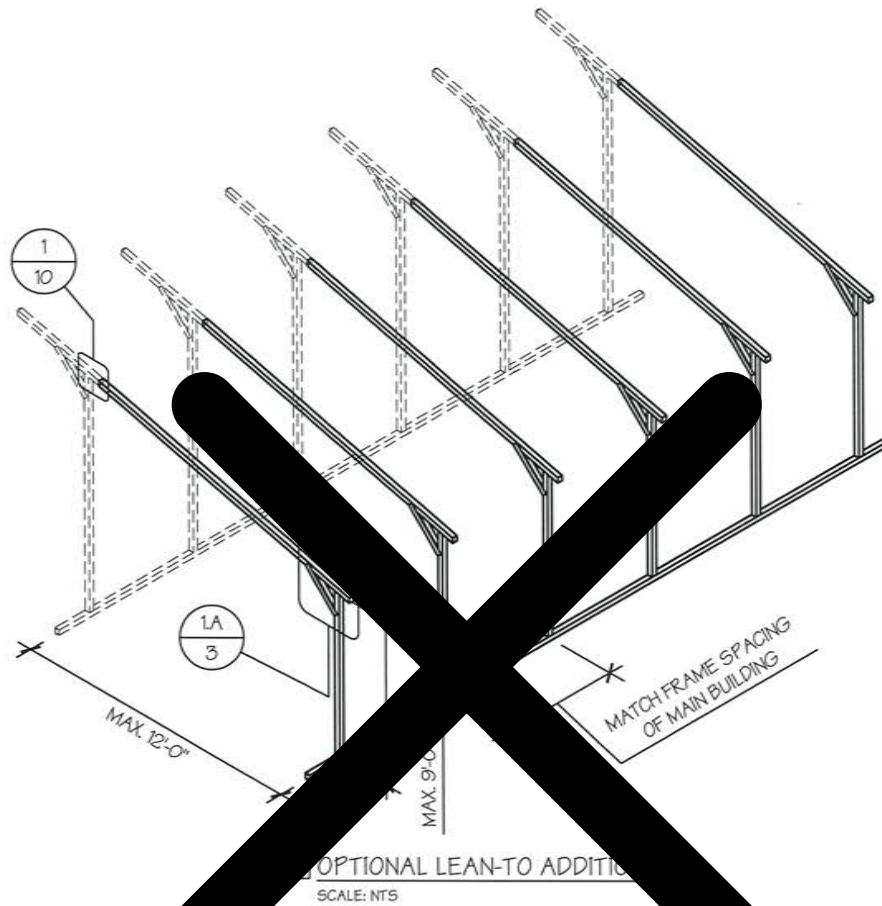
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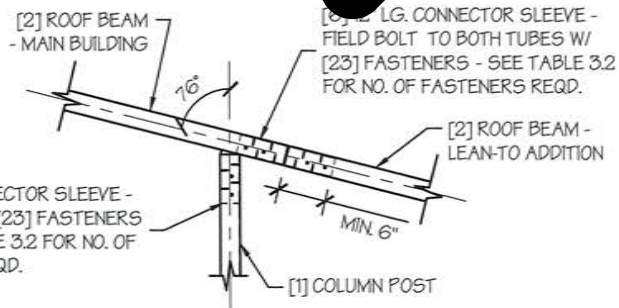


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OPTIONAL LEAN-TO ADDITION
SCALE: NTS



LEAN-TO ATTACHMENT DETAIL
SCALE: NTS

LEAN-TO ADDITION NOTES:

1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS "OPEN" (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4.

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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

OPTIONAL LEAN-TO
ADDITION

SHEET NO.: 10 / 11

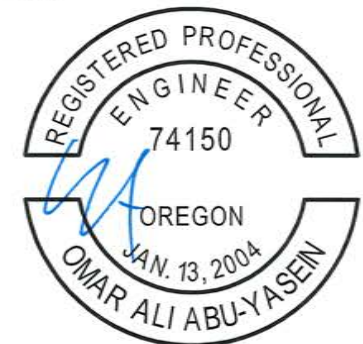
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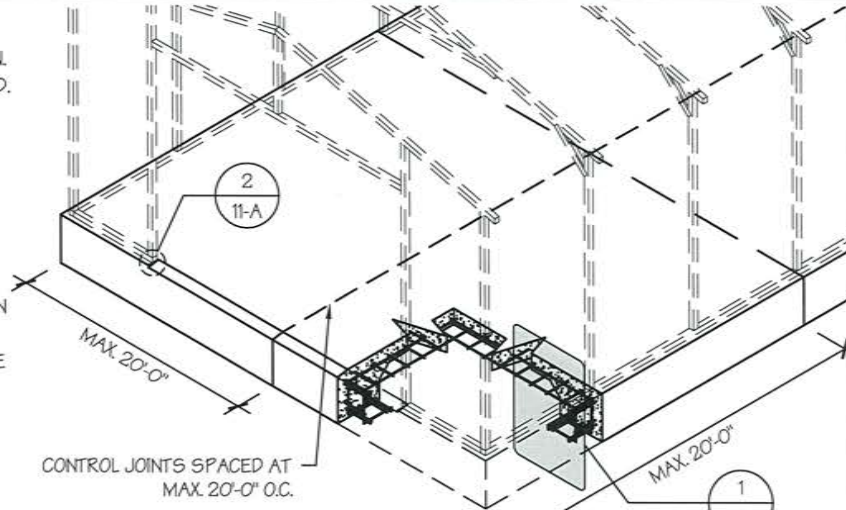


DATE EXPIRES: **DEC 31, 2021**

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CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU D CAN BE USED.
- CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $5\frac{1}{2}$ " FOR 14GA MATERIAL AND $5\frac{3}{4}$ " FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.



CONCRETE SLAB FOUNDATION
SCALE: NTS

MANUFACTURED BY:
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DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF OREGON
PROJECT NO.: 031-21-0237
SHEET TITLE:
**FOUNDATION OPTION 1:
CONCRETE SLAB**
SHEET NO.: 11-A / 11

DRAWN BY: A.W. DATE: 2/1/21
CHECKED BY: OAA DATE: 2/1/21

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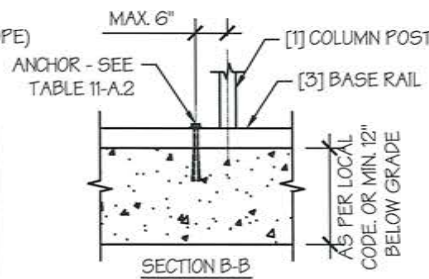
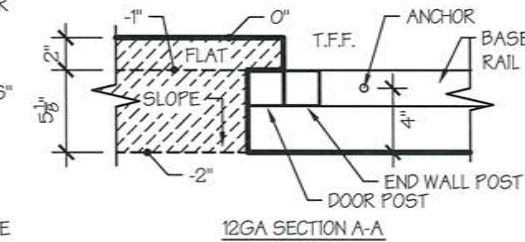
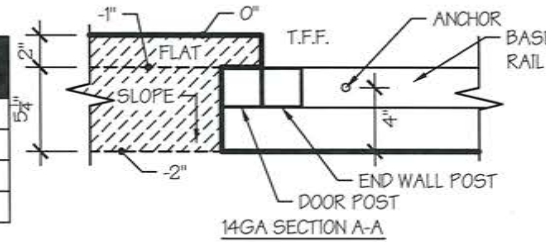
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DATE SIGNED: **FEB 01, 2021**

TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

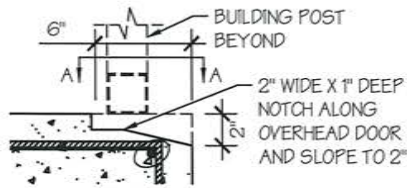
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	105 TO 135	(1) 1/2"Ø X 7"
	136 TO 180	(2) 1/2"Ø X 7"
OPEN	105 TO 135	(1) 1/2"Ø X 7"
	136 TO 180	(2) 1/2"Ø X 7"

- NOTES:
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE $2\frac{3}{8}$ ".
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



EDGE OFFSET DETAIL

SCALE: NTS



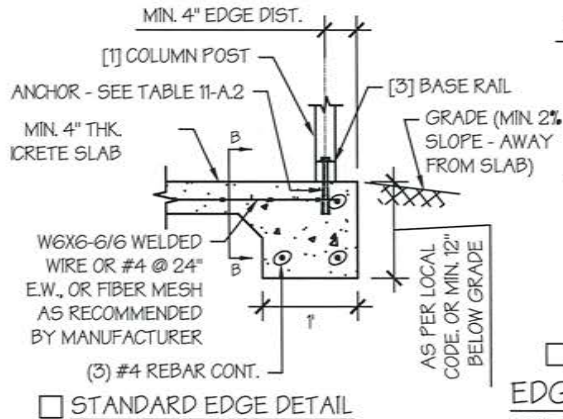
OVERHEAD DOOR NOTCH DETAIL

SCALE: NTS

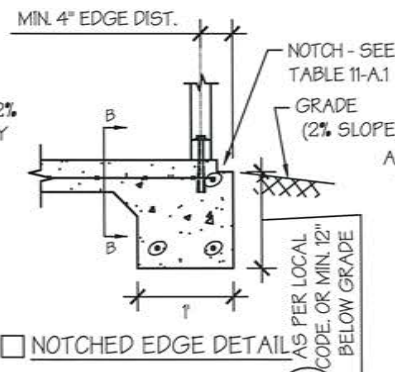
TABLE 11-A.1: NOTCH WIDTH

HORIZONTAL/OPEN		VERTICAL	
14GA	12GA	14GA	12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

NOTE: DEPTH IS TO BE 1 1/2"



STANDARD EDGE DETAIL



NOTCHED EDGE DETAIL

EDGE OFFSET DETAIL

SCALE: NTS

CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.1.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $\frac{1}{2}$ " FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAXIMUM SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 P.S.F.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.

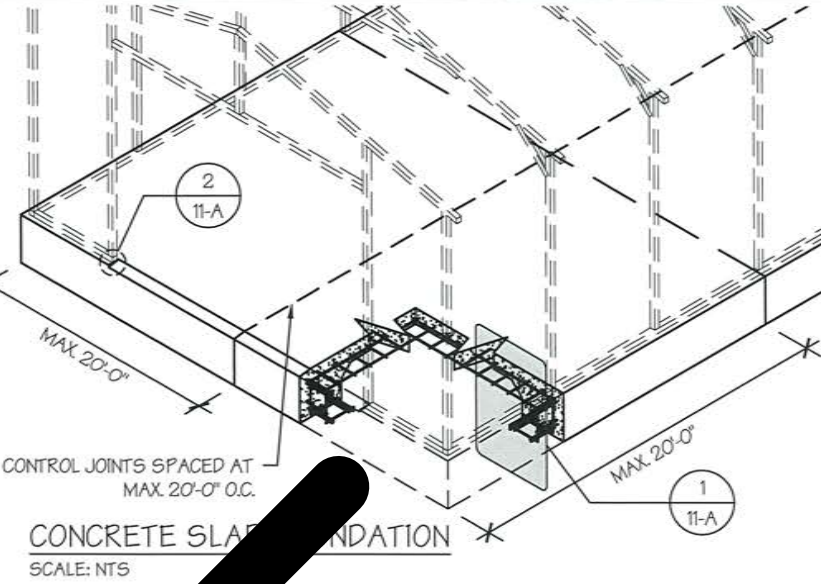
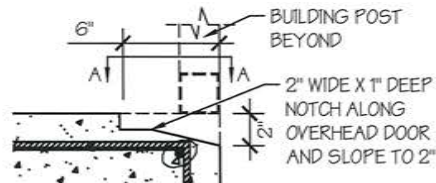


TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□ 105 TO 135	(1) 1/2"Ø X 7"
	□ 136 TO 180	(2) 1/2"Ø X 7"
OPEN	□ 105 TO 135	(1) 1/2"Ø X 7"
	□ 136 TO 180	(2) 1/2"Ø X 7"

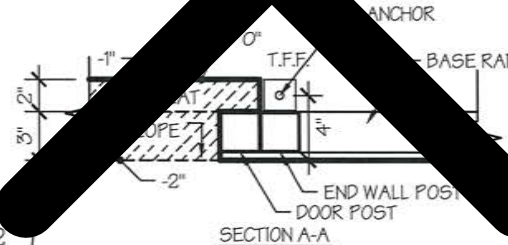
NOTES:

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE $2\frac{3}{8}$ ".
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

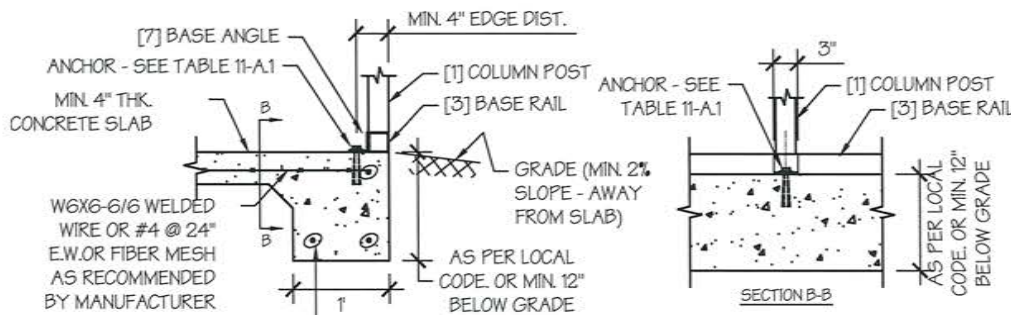


OVERHEAD DOOR NOTCH DETAIL

SCALE: NTS



SECTION A-A



EDGE FLUSH DETAIL

SCALE: NTS

MANUFACTURED BY:



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Knoxville, AR 72845
1-866-267-3790

ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

6036 Renaissance Place • Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

FOUNDATION OPTION 1:
CONCRETE SLAB

SHEET NO.: 11-A / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:



DATE EXPIRES: **DEC 31, 2021**

DATE SIGNED: **FEB 01, 2021**

TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 TO 135	(1) 1/2"Ø X 7"
	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 TO 135	(1) 1/2"Ø X 7"
	□136 TO 180	(2) 1/2"Ø X 7"

NOTES:

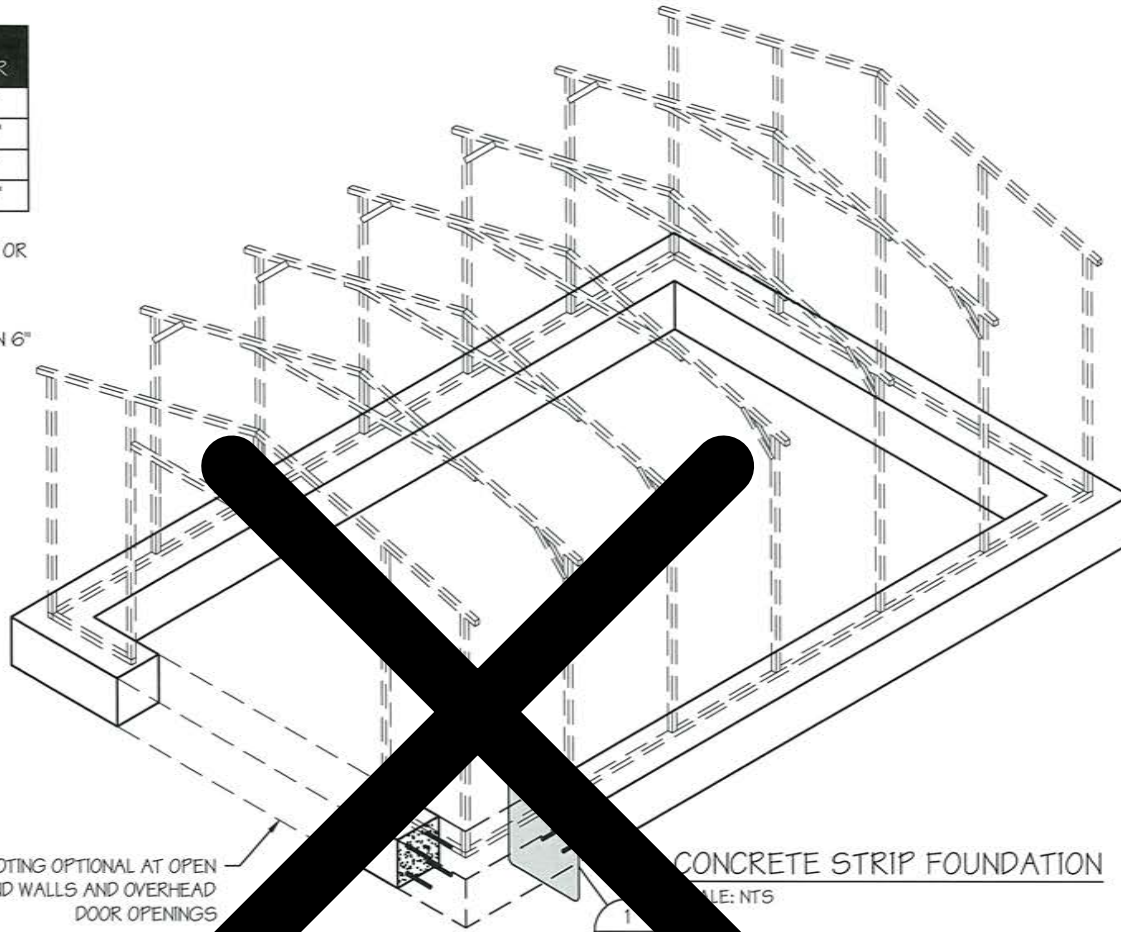
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 2 7/8".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
□105 TO 130	15" X 12"
□140 TO 155	24" X 12"
□165 TO 180	30" X 12"
	24 X 15"
	20" X 18"

NOTES:

1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.



FOOTING OPTIONAL AT OPEN END WALLS AND OVERHEAD DOOR OPENINGS

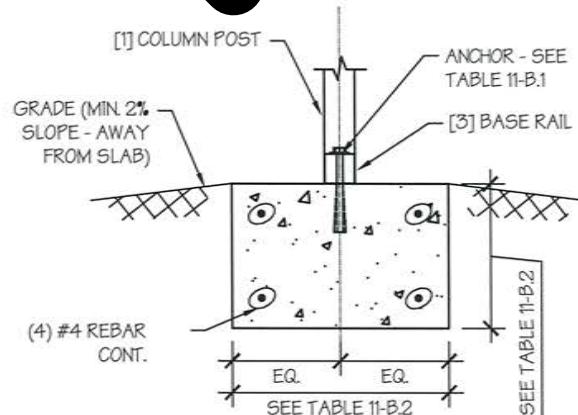
CONCRETE STRIP FOUNDATION

SCALE: NTS

1
11-B

CONCRETE STRIP FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-B.1.
4. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
5. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
6. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
7. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.



CONCRETE STRIP FOUNDATION DETAIL

SCALE: NTS

1

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CIVIL • STRUCTURAL

6036 Renaissance Place • Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

FOUNDATION OPTION 2:
CONCRETE STRIP

SHEET NO.: 11-B / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

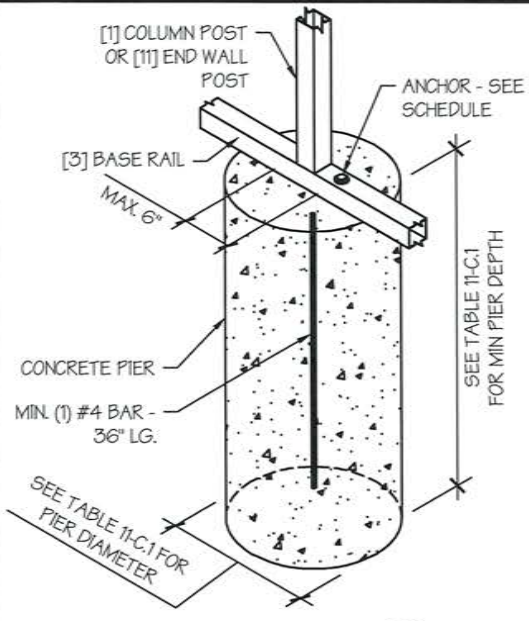
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:

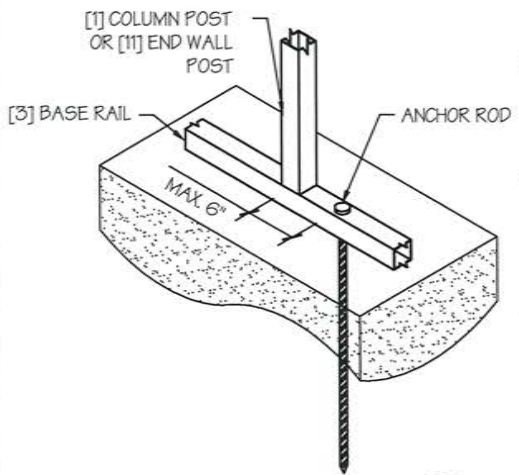


DATE EXPIRES: DEC 31, 2021

DATE SIGNED: FEB 01, 2021



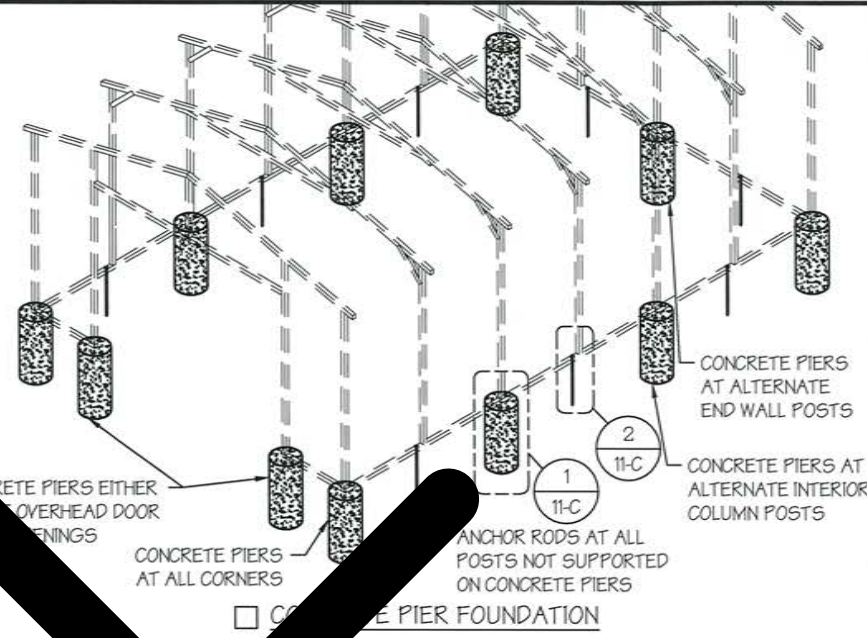
CONCRETE PIER DETAIL
SCALE: NTS



ANCHOR ROD INTO SOIL DETAIL
SCALE: NTS

TABLE 11-C.1: CONC. PIER SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
□ 105 TO 130	24"Ø X 36"
□ 140 TO 155	24"Ø X 42"
□ 165 TO 180	24"Ø X 48"



CONCRETE PIER FOUNDATION NOTES

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE PIER FOUNDATION. ANY OF THE FOUNDATION TYPES SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- CONCRETE PIERS SHALL BE REQUIRED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- TWO ANCHORS SHALL BE INSTALLED AT CORNERS. ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH SIDE OF THE END WALL. BUILDINGS REQUIRING TWO ANCHORS AT EACH CORNER - ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST WITH A PIER.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST WITH A PIER SHALL BE AS SHOWN IN TABLE 11-A.2.
- TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL BRACING.
- ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
- PIERS SHALL BE FORMED BY DIGGING A HOLE OF THE SAME SIZE AS THE PIER ON LEVEL GRADE AND FILLING IT WITH CONCRETE. THRD. ROD ANCHORS SHOULD BE DROPPED INTO THE PIERS PRIOR TO POURING THE CONCRETE.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

TABLE 11-B.1: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□ 105 TO 135	(1) 1/2"Ø X 7"
	□ 136 TO 180	(2) 1/2"Ø X 7"
OPEN	□ 105 TO 135	(1) 1/2"Ø X 7"
	□ 136 TO 180	(2) 1/2"Ø X 7"

- NOTES:**
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE 2 1/2".
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

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TO
COAST
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Knoxville, AR 72845
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ENGINEERED BY:

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6036 Renaissance Place • Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

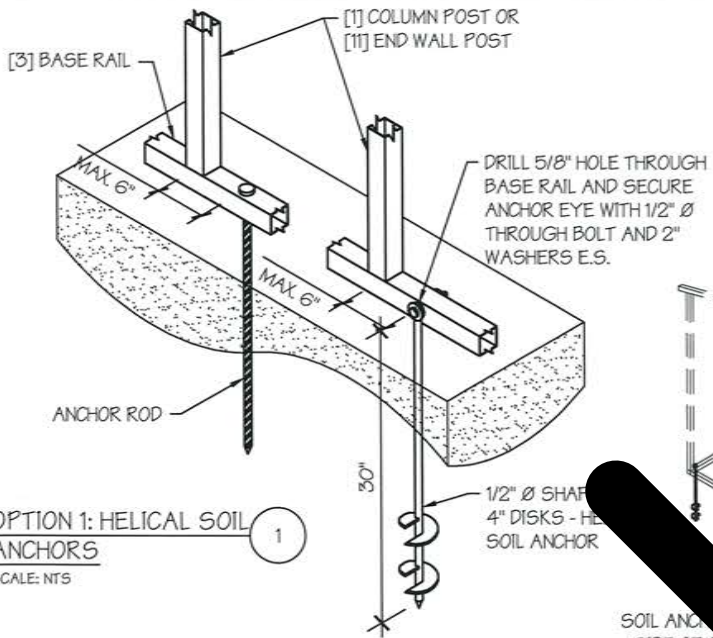
DRAWING INFORMATION
PROJECT: 30'-0" WIDE BUILDINGS
LOCATION: STATE OF OREGON
PROJECT NO.: 031-21-0237
SHEET TITLE:
**FOUNDATION OPTION 3:
CONCRETE PIERS**
SHEET NO.: 11-C / 11
DRAWN BY: A.W. DATE: 2/1/21
CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

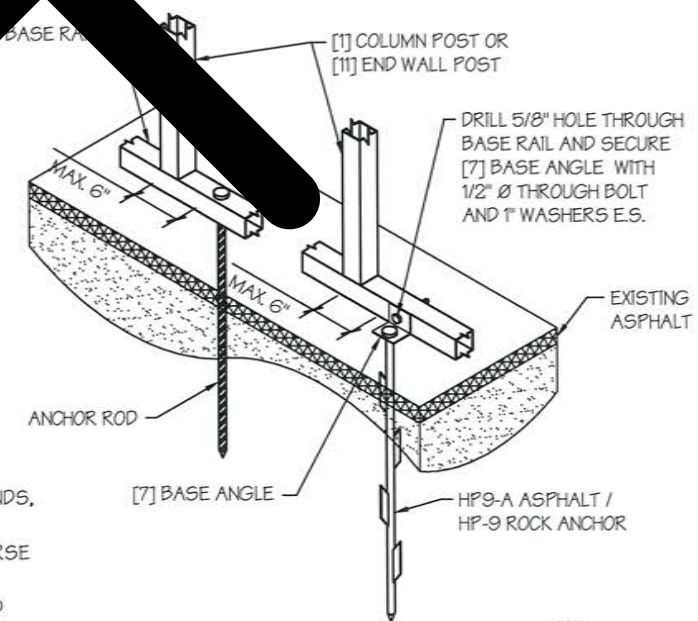
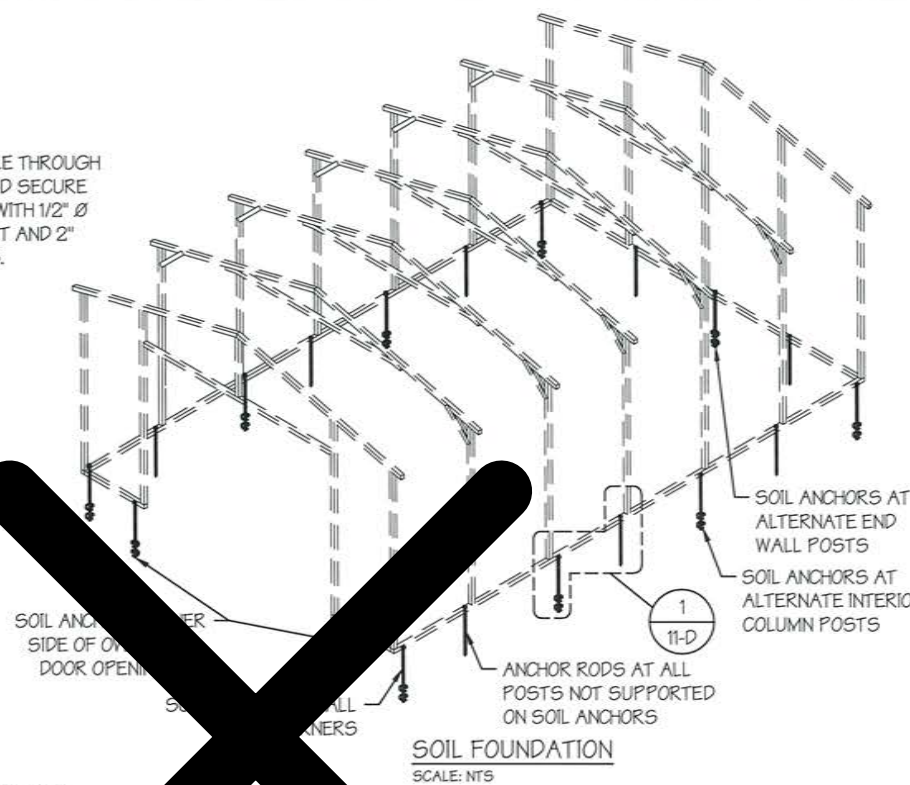
SEAL:

REGISTERED PROFESSIONAL ENGINEER
74150
OREGON
JAN. 13, 2004
OMAR ALI ABU-YASEIN

DATE EXPIRES: **DEC 31, 2021**
DATE SIGNED: **FEB 01, 2021**



OPTION 1: HELICAL SOIL ANCHORS
SCALE: NTS



OPTION 2: ROCK / ASPHALT ANCHORS
SCALE: NTS

SOIL FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE IN THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
- HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

SOIL CLASSIFICATIONS:

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLES, PRELOADED SILTS, CLAYS AND CORAL.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

*FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS"

MANUFACTURED BY:



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Tel. 419-292-1988 • Fax. 419-292-0955
www.a-a-engineers.com

DRAWING INFORMATION

PROJECT: 30'-0" WIDE BUILDINGS

LOCATION: STATE OF OREGON

PROJECT NO.: 031-21-0237

SHEET TITLE:

FOUNDATION OPTION 4:
SOIL ANCHORS

SHEET NO.: 11-D / 11

DRAWN BY: A.W. DATE: 2/1/21

CHECKED BY: OAA DATE: 2/1/21

LEGAL INFORMATION

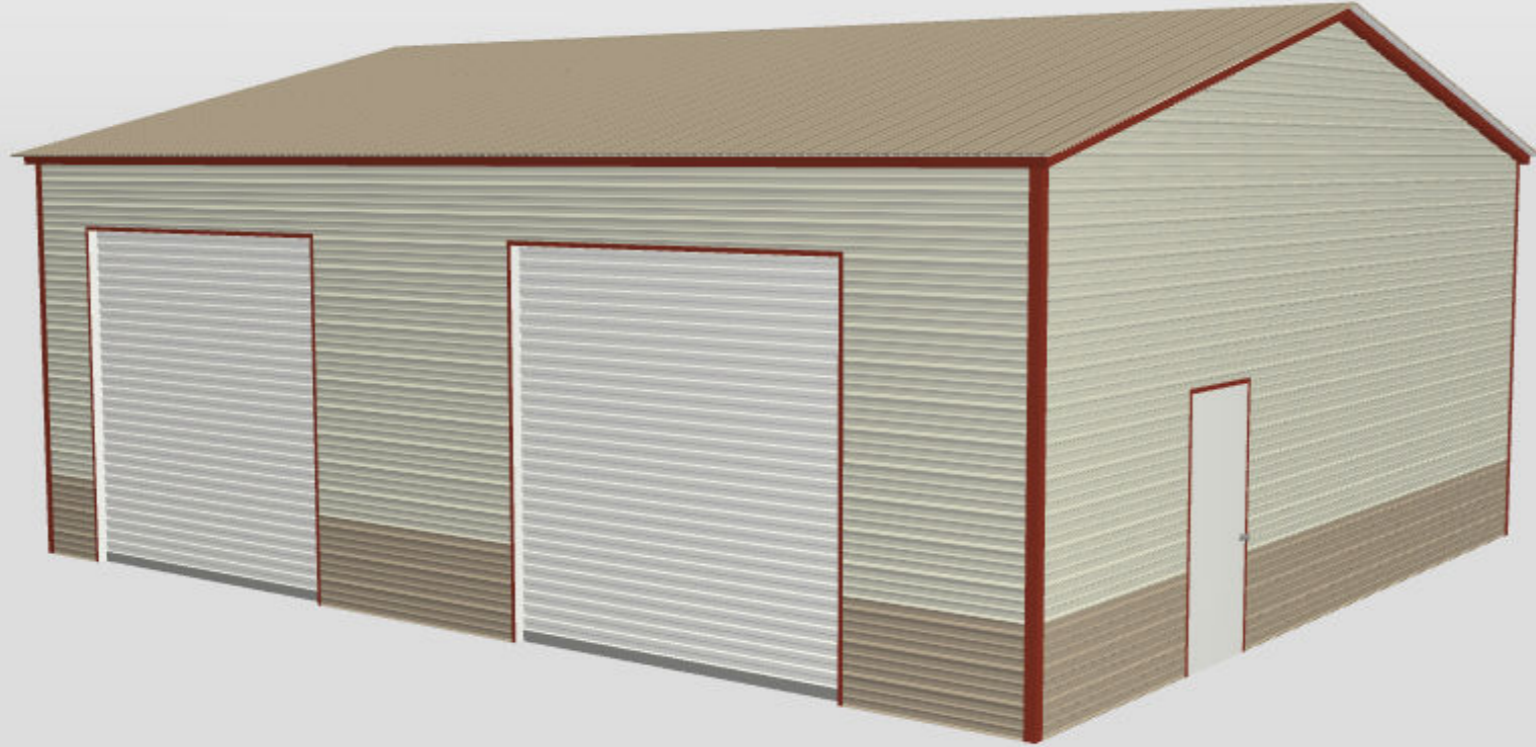
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- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:

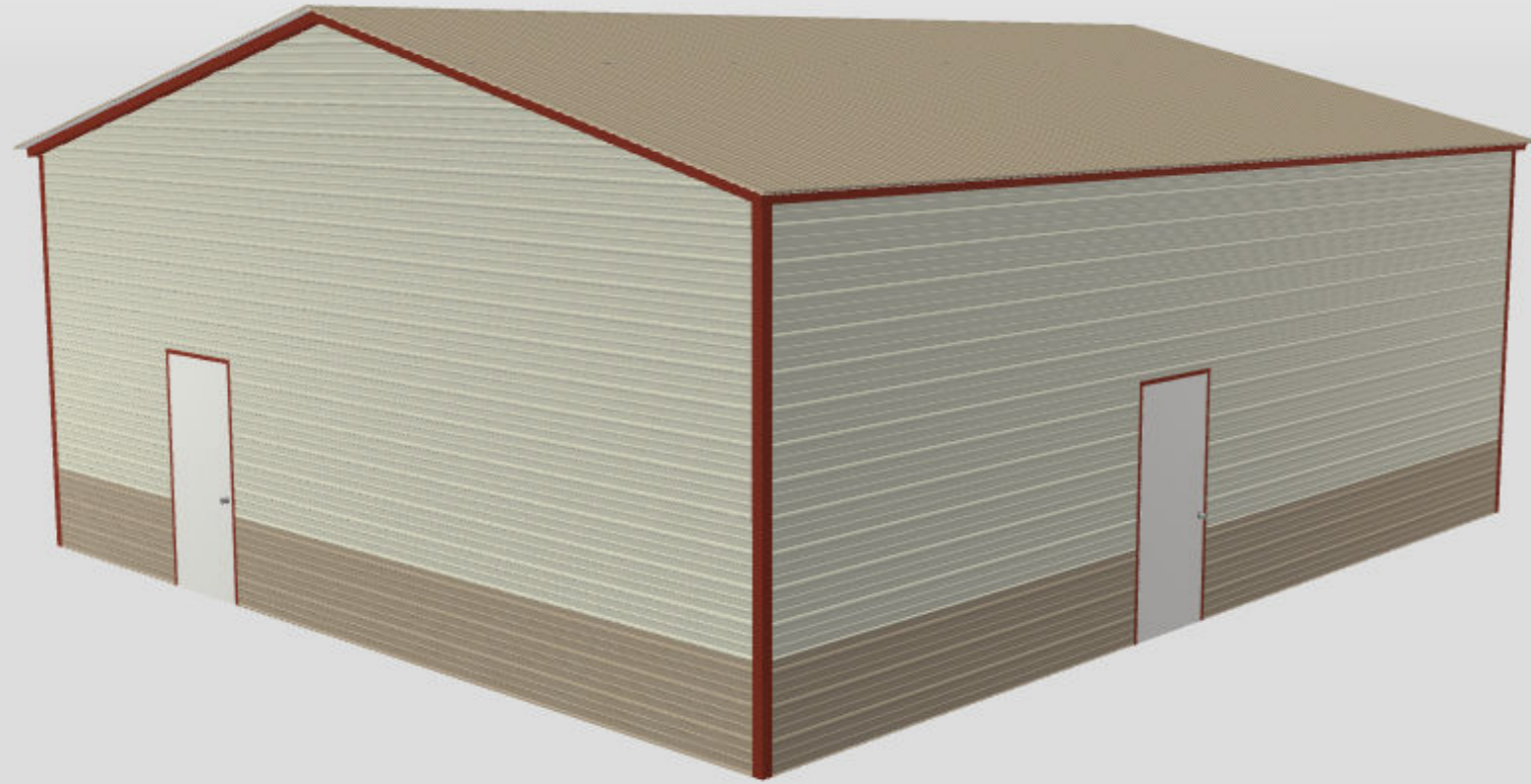


DATE EXPIRES: **DEC 31, 2021**

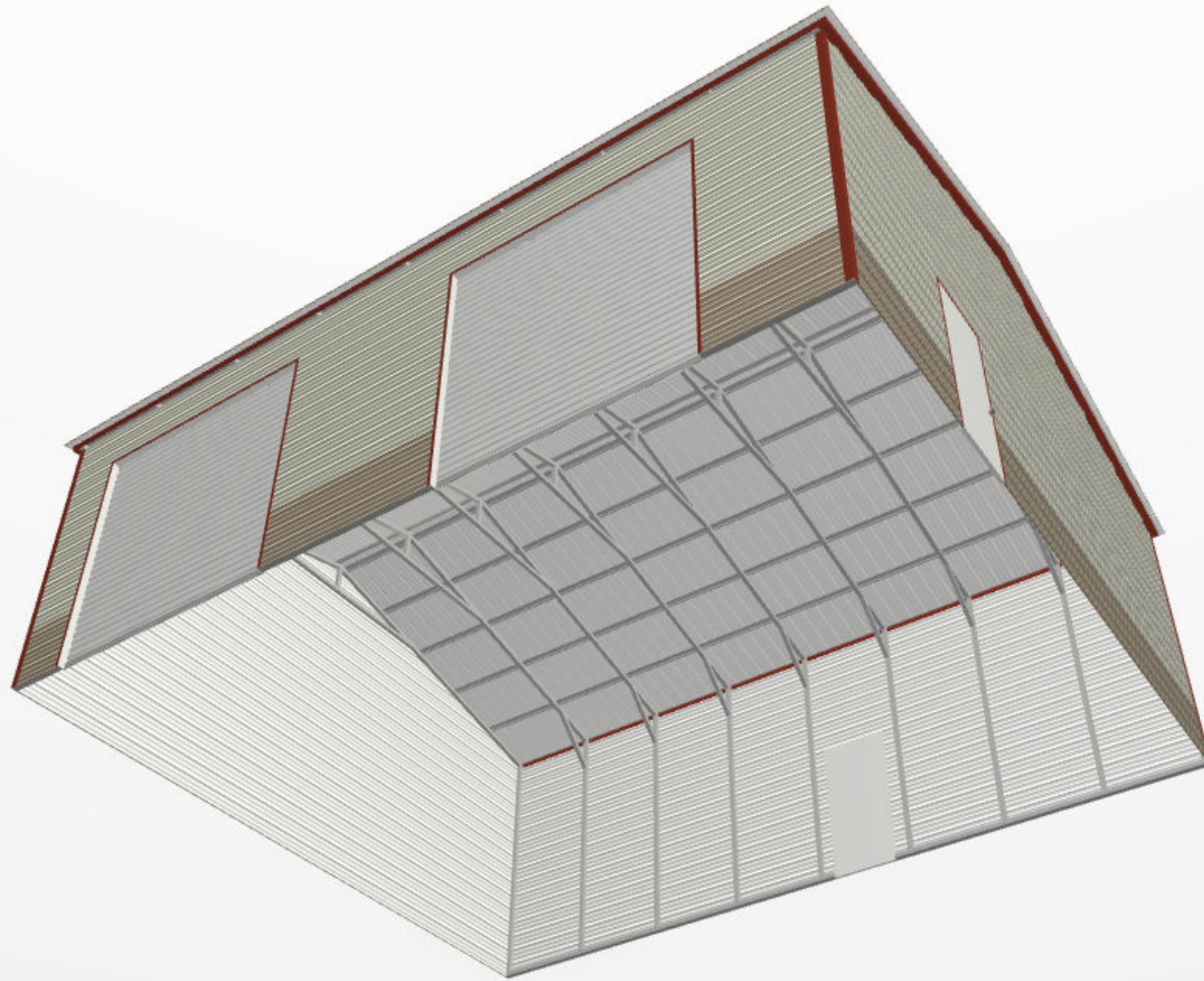
DATE SIGNED: **FEB 01, 2021**



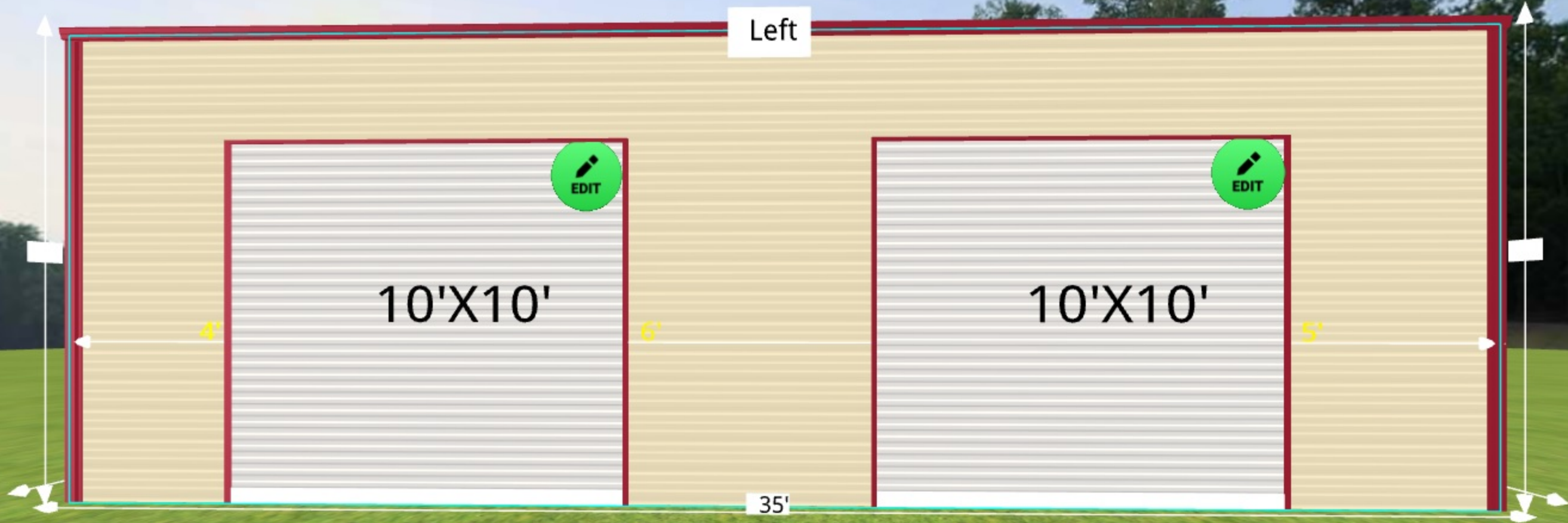
Triple Wide (26'-30' Wide)
30' W x 35' L x 12' H

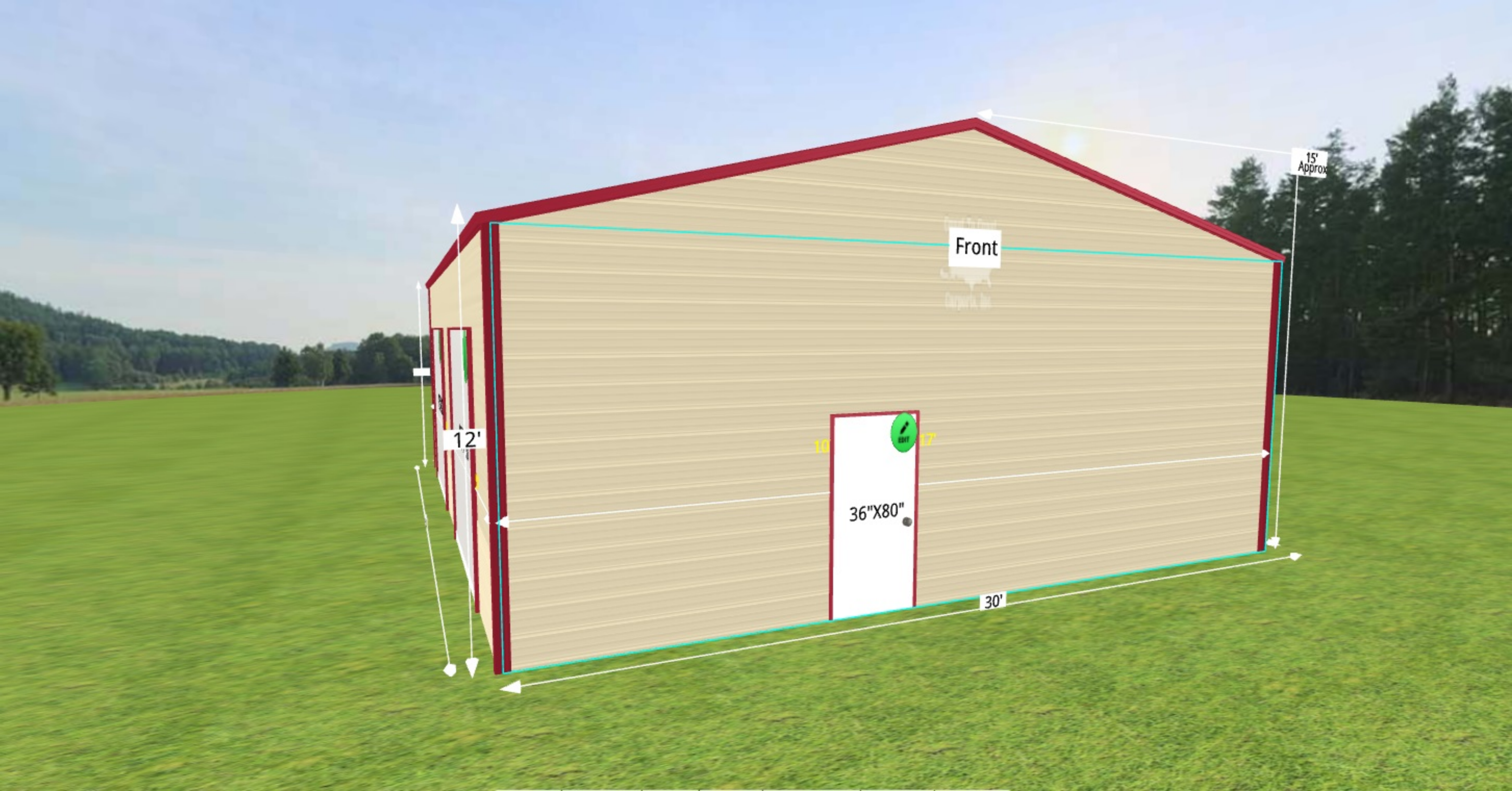


Triple Wide (26'-30' Wide)
30' W x 35' L x 12' H



Triple Wide (26'-30' Wide)
30' W x 35' L x 12' H





Front

15'
Approx

12'

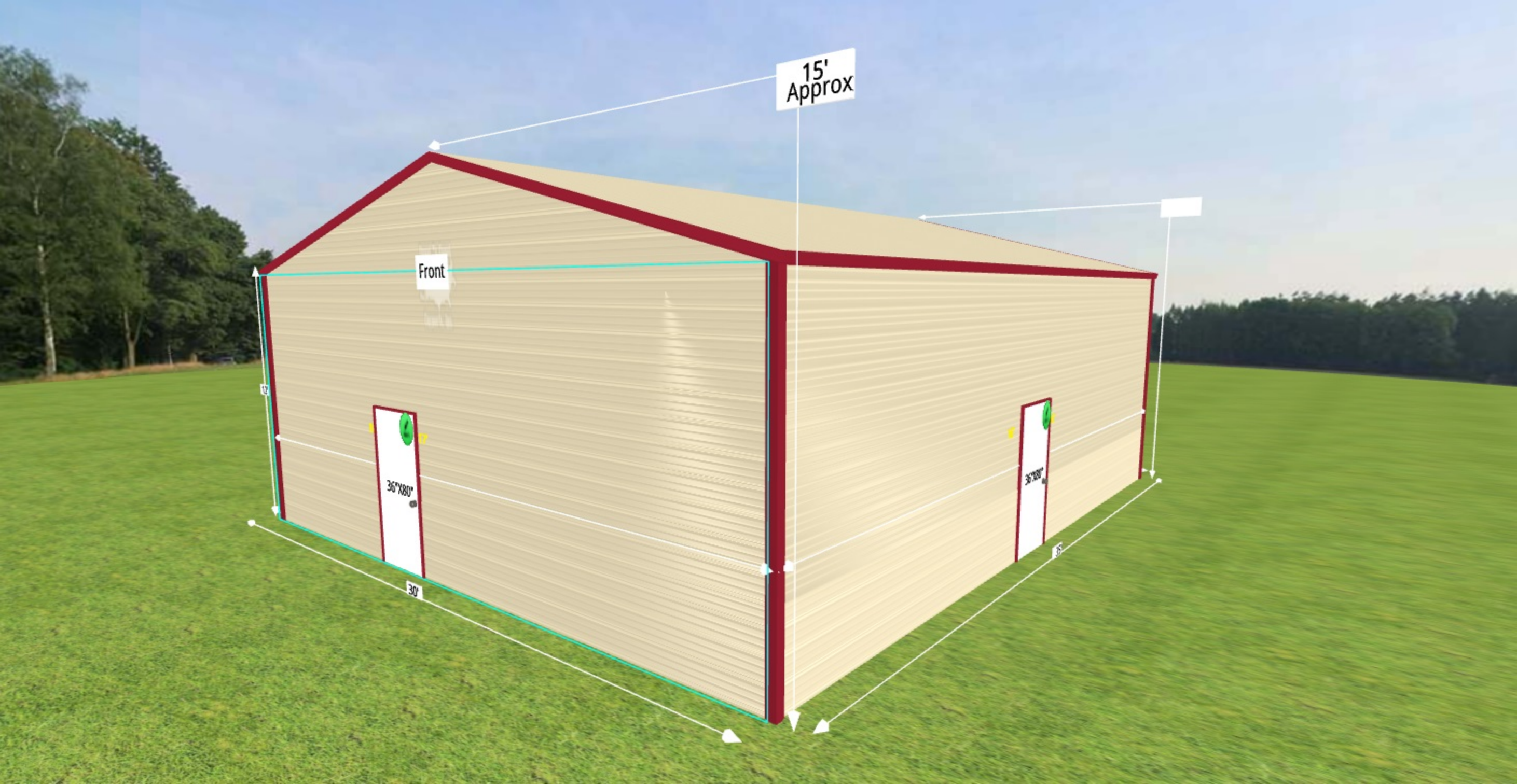
36"X80"

30'



10'

17'



15'
Approx

Front

36'x80'

30'

36'x80'

15'



15' Approx.

Back

12'

30'

35'

10'X10'

10'X10'