

Community Development 407 Birch Ave SW, P. O. Box 810 Napavine, WA 98565 Phone: (360) 262-9344

www.cityofnapavine.com

Notice of Public Hearing

NOTICE IS HEREBY GIVEN that City of Napavine has received a Variance Application from Napavine Adventures LLC for the following development proposal:

Project Proposal: The Applicant is requesting a Variance to waive public right-of-way improvements on a new triplex. The public right of way improvements the applicant is requesting to be waived are curb, gutter, sidewalks, street light construction, and allow the extension of the existing 17-foot road. The project site is .29 acres.

Project Location: 416 (A-C) E Newaukum Ave Napavine, Washington - Tax Parcel #008243001001 (Section 26 Township 13N Range 02W LTS 6 & 7 BLK 26 ROWELLS ADD)

Hearing Date and Location: April 8, 2024, 10:00 AM

Napavine City Hall - Council Chambers

407 Birch Ave SW Napavine WA 98565

City Contact:

Bryan Morris, Director of Public Works

Phone: (360) 262-9344

Email: bmorris@cityofnapavine.com Mail: PO Box 810, Napavine, WA 98565

View the complete application online:

https://www.cityofnapavine.com/communitydev/page/public-notices

Date Application Received: January 3, 2024

Date of Complete Application: January 18, 2024

Anyone interested may appear and be heard. The decision of the Hearing Examiner will be sent to all those who submit comments, testify at the hearing, or request the decision in writing. Any aggrieved party of record can file an appeal with Lewis County Superior Court. Written comments about this application must be submitted to Bryan Morris at the listed address above. If you have any questions, please visit the website or call.

WRITTEN PUBLIC COMMENTS CAN BE ACCEPTED UNTIL 9:30 AM ON April 8, 2024



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Staff Report

GENERAL INFORMATION

Applicant: Napavine Adventures LLC

Property Owner: Napavine Adventures LLC

Purpose: Variance to waive public right-of-way improvements for a new triplex. Requested right-of-way improvements to be waived are curb, gutter, sidewalks, and street lighting construction. Also requesting extension of existing 17-foot road.

Address: 416 (A-C) E Newaukum Street (assigned address when prior variance (expired) was approved) **Parcel Number:** 008243001001 - (Se ction 26 Township 13N Range 02W LTS 6 & 7 BLK 26 ROWELLS ADD)

Zoning: Residential 3 (R3)

Surrounding Land Use: Residential 3 (R3), Residential 2 (R2), Bare Land, Residential 3 (R3)

Application Date: January 3, 2024 **Review Date:** January 18, 2024

I. BACKGROUND

The applicant is requesting a Variance to waive public right-of-way improvements on a new triplex. The public right-of-way improvements the applicant is requesting to be waived are curb, gutter, sidewalks, street light construction, and allow the extension of the existing 17-foot road. The applicant was approved for a Variance through City Council in June 2022 to waive public improvements of curb, gutters, and sidewalks. The applicants' engineer agreed to extend the existing 17-foot road to a full 22-foot width road and provide streetlighting on E. Newaukum Street. The city processed a building permit that was ready to be picked up on June 30, 2022, but that building permit was never pursued. The Variance expired 6 months later, when no substantial construction had begun on the project.

II. POLICY CONSIDERATIONS

Napavine Municipal Code (Exhibit E)

NMC 12.04.060 New Residential sub-division streets (Sections A. B. & G.) NMC 15.06.050 Fire Access Road Requirements (Section E.)

The City of Napavine Public Works Standards (Exhibit F)

Illumination 2D.02 Design Standards

Streets - 2B.02 Design Standards

Streets - 2B.04 Signing and Striping

Streets - 2B.07 Street Frontage Improvements

Roadside Features - 2F.07 Mailboxes

III. REVIEW OF VARIANCE STANDARDS

Napavine Municipal Code 17.80.040 Variances guides the Hearing Examiner in how to review variance requests:

Where unnecessary hardships and practical difficulties, resulting from peculiarities of a specific property, render it difficult or inequitable to carry out all provisions of this title, the board shall have the power to grant a variance if it finds that the following conditions are met:

(1) The variance will not constitute a grant of special privilege inconsistent with the limitation upon uses of other properties in the vicinity and zone in which subject property is located; and

Staff finds that granting the Variance will grant a special privilege inconsistent with limitation upon uses of other properties in the vicinity and zone in which subject property is located. There are 36 acres of undeveloped R2 land to the east of the subject property. Granting the variance may limit the use of that property for future development.

(2) Such variance is necessary, because of special circumstances relating to the size, shape, topography, location, or surroundings of the subject property, to provide it with use rights and privileges permitted to other properties in the vicinity and in the zone in which the subject property is located; and provided that such unusual circumstances or conditions do not exist throughout the neighborhood or zone in which the property is located, and provided further that such unusual circumstances or conditions have not been created by action of the applicant; and

Staff find that there are no special conditions which are peculiar to the land and structure.

(3) The granting of such variance will not be materially detrimental to the public welfare of injurious to the property or improvements in the vicinity and zone in which the subject property is situated; and

Staff find that the granting of such a variance will be materially detrimental to public welfare because of future improvements to the adjacent undeveloped 36 acres.

(4) The granting of such variance will not adversely affect the comprehensive plan; and

Staff find that granting the variance will not adversely affect the comprehensive plan.

(5) The variance, if granted, will not alter the essential character of the neighborhood or district in which the property is located, nor substantially or permanently impair the appropriate use or development of the adjacent property; and

Staff find that the granting of such a variance will impair the appropriate use or development of adjacent property.

The variance so authorized shall become void after the expiration of six months if no substantial construction has taken place in accordance with the plans for which the variance was authorized.

IV. RECOMMENDATION

Based on a review of the application according to the stringent evaluation criteria contained within the City Code and Public Works Standards, staff recommends **DENIAL** of the requested variance.

V. CONDITIONS OF APPROVAL

If the variance is approved consistent with the site plan submitted with this application, staff recommends that the approval shall be subject to the following:

- 1. The applicant must widen and expand the existing 17-foot road to a 22-foot road and extend to the furthest extent of the property.
- 2. Provide streetlighting on E. Newaukum Street.

VI. EXHIBIT LIST

Exhibit A. Variance Application

Exhibit B. Public Hearing Documents

Exhibit C. Site Plan

Exhibit D. City Council Findings, Conclusions Decision on expired Variance Application

Exhibit E. Napavine Municipal Codes - Policy Considerations

Exhibit F. Napavine Public Works Standards - Policy Considerations

Sincerely,

Bryan Morris

Byan Mune

Public Works/Community Development Director

CITY OF NAPAVINE

407 BIRCH AVE SW, P.O. BOX 810, NAPAVINE, WA 98565 (360) 262-9344

VARIANCE APPLICATION

Fee: \$ 500.00

File No.:	VA	01-24		Date:		
Applicant:		Napavine A	dventures.	, LLC – Kevin Klumper		
Applicant'	s Address:	790 S. Mar	ket Blvd., (Chehalis, WA 98532		
Location o	f Property:	0 E. Neway	kum Stree	t, Napavine, WA 98565 -	- 008243-001-001	
Lot:	6&7	Block:	<u>26</u>	Addition:	Rowells	

- A. The above described property was acquired on May 24, 2021.
- B. A certificate of ownership and a list of owners of property located within 300 feet of this parcel must accompany this application.
- C. Do covenants, conditions or restrictions concerning type of improvements contemplated exist on the property? <u>No.</u> If so, attach a copy of said document to this application.
- D. I HEREBY REQUEST A VAIRANCE AS FOLLOWS: (Please explain the hardship for which you are requesting a variance to alleviate.)

NAPAVINE ADVENTURES, LLC – KEVIN KLUMPER, is requesting a Variance to waive right-of-way improvements on a new triplex. The public right-of-way improvements Napavine Adventures, LLC is requesting to waive: are curb, gutter, sidewalks, and street lighting construction and allow extension of the existing 17-foot road matching the recent construction approved for East Newaukum Street. Due to the variance allotted to the developer on the north side of East Newaukum Street, the half street improvements would not align with the existing road.

Your approval of the requested variance would permit me to use my property in the following manner: Approval of the variance would allow the parcel to develop as a new triplex townhome development.

- 1. Would the strict application of the Zoning Regulations create practical difficulties or unnecessary hardships for you? (Please explain.)
 - Yes, due to the variance allotted to the developer on the north side of E. Newaukum St., the half street improvements would not line up. Our variance is to extend the extension half street improvement consistent with the previous development work.
- 2. Are there exceptional circumstances of conditions applicable to this property or to the intended use or development of the property that do not apply generally to other property in the same zone or neighborhood? (Please explain.)
 - Yes, the construction of required frontage half street would not align with the existing road.

property of improvements in your explain.)	zone or neighborhoo	d in which your propo	erty is located? (Pl	ease
No, road and public utilities will be	e extended as require	ed to provide fire and	Signature of	
		790 S. Cheha	Market B lis, WA 98	Vd. 532 Address
		(360) 3	-19 - 39 7 Telephone	8
Variance Fee: \$Receipt No.:	_		Telephone	e Number
Date Paid:				
STATE OF WASHINGTON)				
COUNTY OF LEWIS	SS			
the State of Washington, duly commission being duly sworn, on his/her oath deposes has acknowledged to me that the recitation free and voluntary act and deed for the pure	s and says that he/sh on contained therein	e prepared and read t are true, and has sign	he foregoing stater	nents and
Subscribed and swor	rn to before me this	2nd day of Ja	nnary	, 20 <u>24</u> .
MARIE MARIE	My Commission The T	expires: 3-3 Marie Elo	M -	
134614 S		Notary Public in and		ashington
Thinks 2.29-24 with the second	Residing at:	Chehalis		
WASHING				
Community Development Director	Da	ite		
Mayor	Da	ite		

3. Will the granting of a variance be significantly detrimental to the public welfare or injurious to the other



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Charles & Kendra Maslowski Po Box 936 Napavine, WA 98565

Steven & Kayla Von Seggern Po Box 66805 Saint Louis, MO 63166-6805

Diane Armitage Po Box 1224 Napavine, WA 98565

Chase Barragar 236 Chehalis Valley Dr Chehalis, WA 98532

Sean Kiffer Po Box 1013 Napavine, WA 98565-1013 Michael J Mikota Po Box 334 Napavine, WA 98565-0334

Andy & Marie Douglas 612 W Grand Blvd Chehalis, WA 98532-8869

Raghorn Investments Llc Po Box 1338 Napavine, WA 98565

Ethan White & Kindra Davis Po Box 1228 Napavine, WA 98565

Darlene R Owens Po Box 982 Napavine, WA 98565 Napavine School Dist 14 Po Box 840 Napavine, WA 98565

Todd & Kelly Kelley Po Box 1251 Napavine, WA 98565-1251

Robert Slemp Po Box 355 Napavine, WA 98565-0355

Michael Renfro & Regan Givens Po Box 6452 Olympia, WA 98507

Don Day 3251 Jackson HWY Chehalis, WA 98532-8636

Surrounding Parcels

PARCEL NO.	ADDRESS	PROPERTY OWNER
008366001002	0 E Stella St.	Charles & Kendra Maslowski
018170002000	0 E Stella St.	Charles & Kendra Maslowski
008233005000	500 E Stella St.	Charles & Kendra Maslowski
008233006000	0 E Stella St.	Michael Mikota
008234001002	0 E Stella St.	Michael Mikota
018170001002	0 E Stella St.	Napavine School Dist. 14
008365000000	0 E Rowell St.	Napavine School Dist. 14
008201000000	0 3rd Ave NE	Napavine School Dist. 14
018170001001	0 E Park St.	Napavine School Dist. 14
008244000000	404 4th Ave NE	Napavine School Dist. 14
008232000000	716 4th Ave NE	Steven & Kayla Von Seggern
008230000000	710 4th Ave NE	Andy & Marie Douglas
008229000000	704 4th Ave NE	Todd & Kelly Kelley
008217002000	313 E Stella St.	Diane Armitage
008243001002	416 E Park St.	Raghorn Investments LLC
008236001000	404 E Newaukum St.	Robert Slemp
008234001001	413 E Newaukum St.	Chase Barragar
008219001000	709 4th Ave NE	Ethan White & Kindra Davis
008209001000	611 4th Ave NE	Sean Kiffer
008209002000	601 4th Ave NE	Michael Renfro & Regan Givens
008208002000	625 4th Ave NE	Darlene Owens
008233003000	413 E Stella St.	Don Day

Katie Williams

From:

Ronda Barr <rbarr@chronline.com>

Sent:

Tuesday, March 26, 2024 3:34 PM

To:

Katie Williams

Cc:

CDPW Admin; Bryan Morris

Subject:

Re: Notice of Public Hearing - City of Napavine

CAUTION: External Email

Katie,

I have received your legal and I will get it scheduled to run March 28th. Thanks and have a wonderful week. Ronda

Thank You!
Ronda Pogorelc
Customer Service Manager
CT Publishing
The Chronicle/The Reflector/Nisqually Valley News
360-736-3311 Ext 101

On 3/26/2024 3:28 PM, Katie Williams wrote:

Ronda,

Attached you will find a Notice of Public Hearing for the City of Napavine. Please run this in the Thursday March 28th edition of the newspaper.

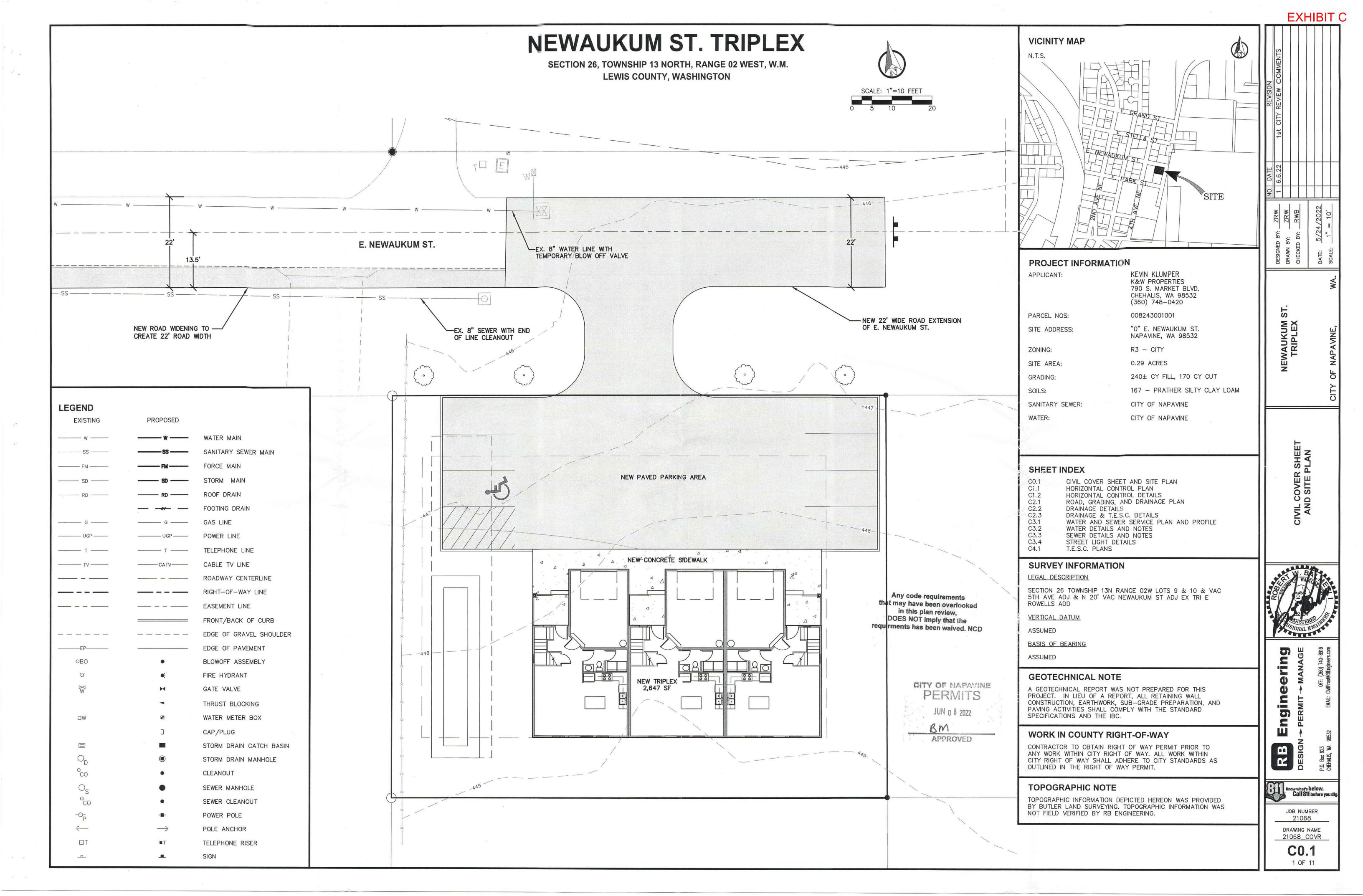
Thank you,

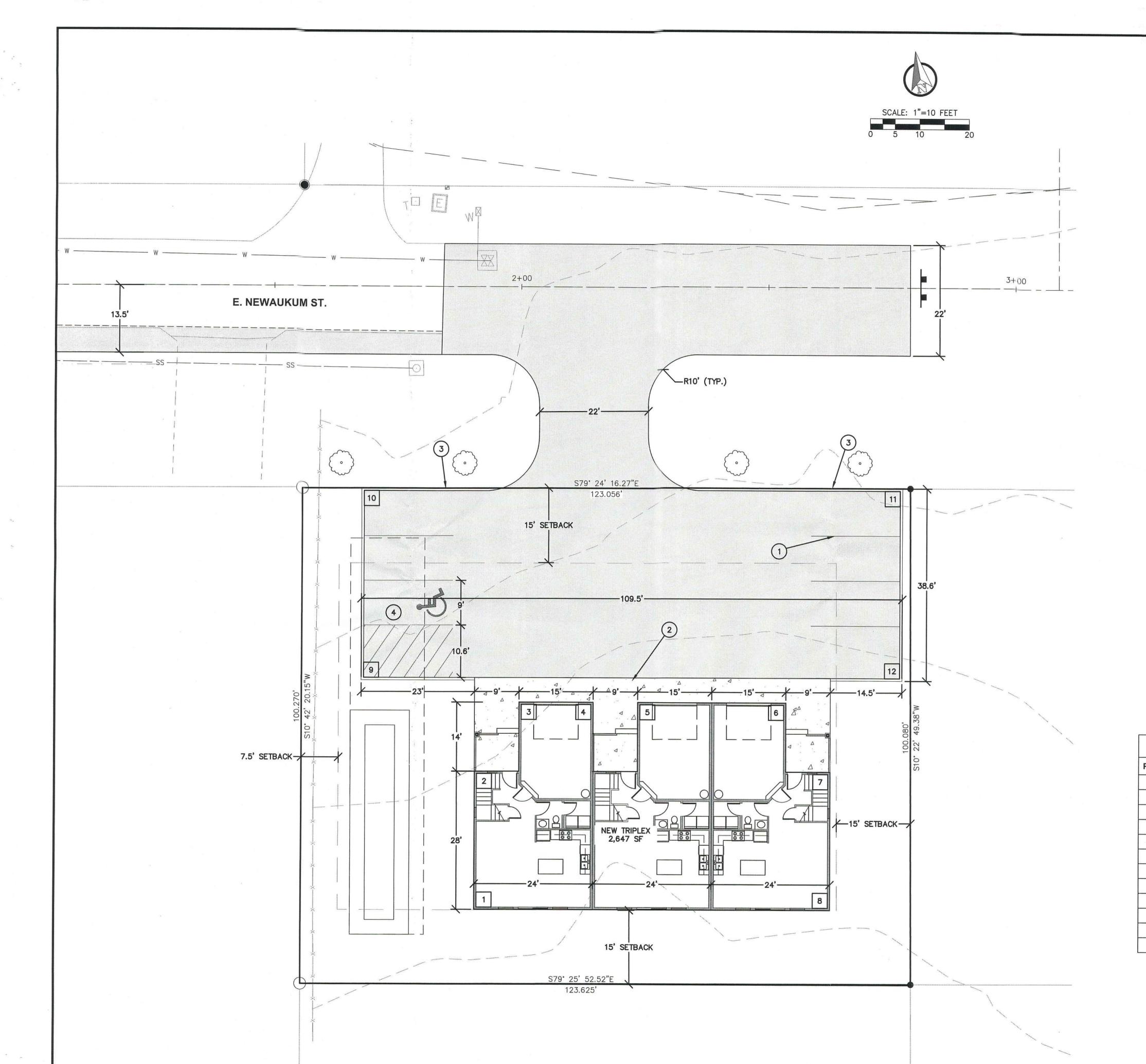
Katie Williams
Community Development/Public Works
Executive Assistant
City of Napavine
(360) 262-9344
(360) 262-9199-fax

Disclaimer: Public documents and records are available to the public as provided under the Washington State Public Records Act (RCW 42.56). This e-mail may be considered subject to the Public Records Act and may be disclosed to a third-party requestor.

×

Virus-free.www.avast.com





HORIZONTAL CONTROL NOTES:

- 1 INSTALL NEW 9'x18' PARKING STALLS PER PLAN AND DETAIL ON SHEET C1.2
- 2 INSTALL NEW 5' SIDEWALK PER PLAN AND DETAIL ON SHEET C1.2. MAX CROSS SLOPE OF 2%.
- 3 INSTALL NEW EXTRUDED CURB PER PLAN AND DETAIL ON SHEET C1.2.
- STRIPE NEW HANDICAP AND ACCESS STALL PER PLAN AND DETAIL ON SHEET C1.2.

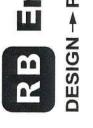
COORDINATE TABLE								
Point #	Description	Northing	Easting					
1	BUILDING	10981.78	13818.51					
2	BUILDING	11009.31	13823.66					
3	BUILDING	11021.41	13835.08					
4	BUILDING	11018.65	13849.83					
5	BUILDING	11017.00	13858.67					
6	BUILDING	11011.48	13888.16					
7	BUILDING	10996.07	13894.44					
8	BUILDING	10968.54	13889.29					
9	PARKING	11032.12	13805.04					
10	PARKING	11069.07	13811.98					
11	PARKING	11049.11	13918.60					
12	PARKING	11012.17	13911.69					

Any code requirements
that may have been overlooked
in this plan review,
DOES NOT imply that the
requirments has been waived. NCD

PERMITS

JUN 0 8 2022

APPROVED



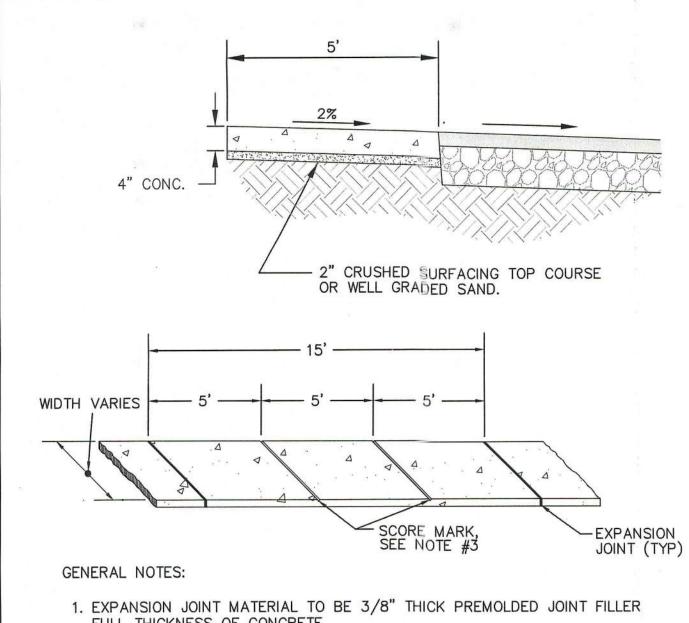
Know what's below.

Call 811 before you dig

JOB NUMBER

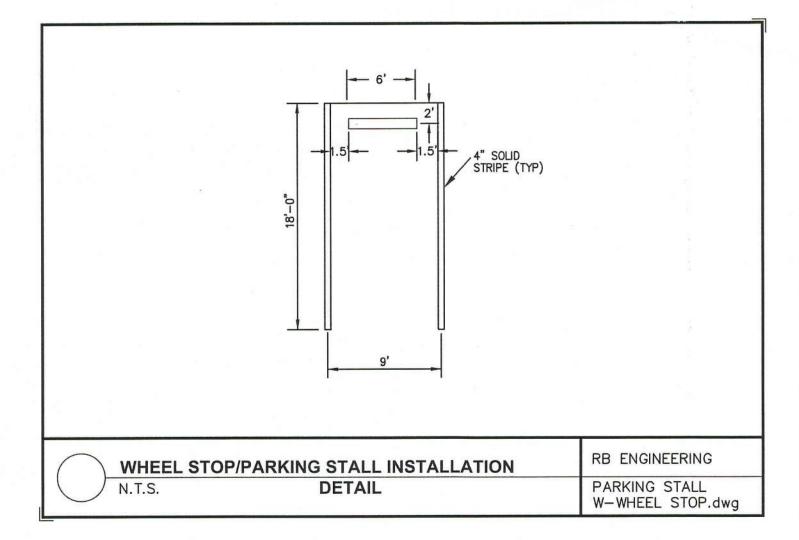
21068 DRAWING NAME 21068_HCPL

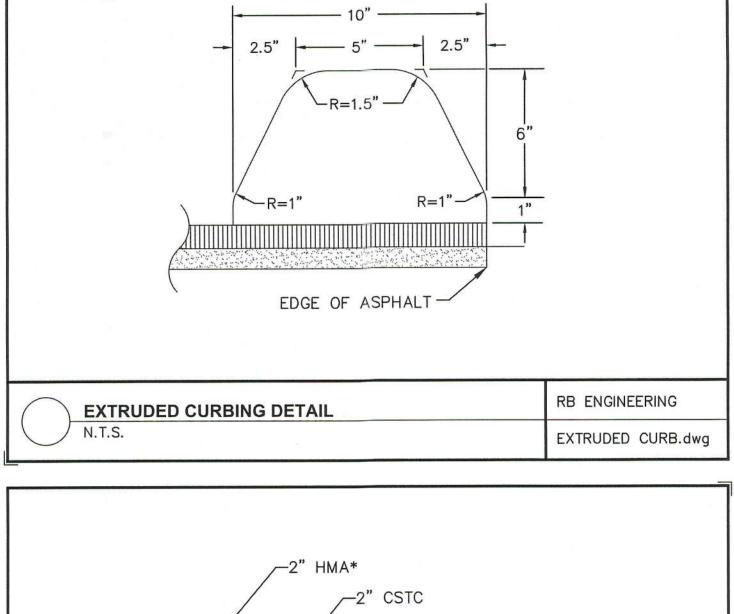
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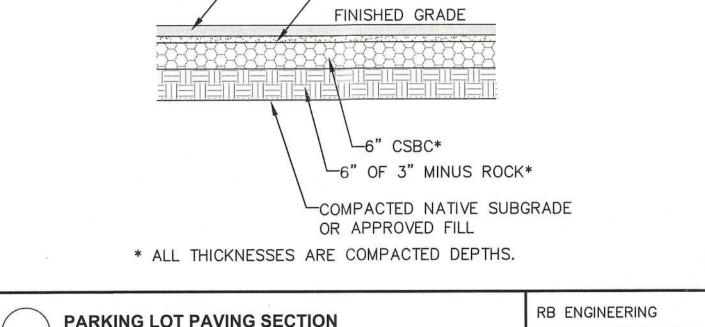


- FULL THICKNESS OF CONCRETE.
- 2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
- 3. SCORE MARKS SHALL BE $\pm 1/8$ " WIDE BY $\pm 1/4$ " DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
- 4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY ENGINEER.

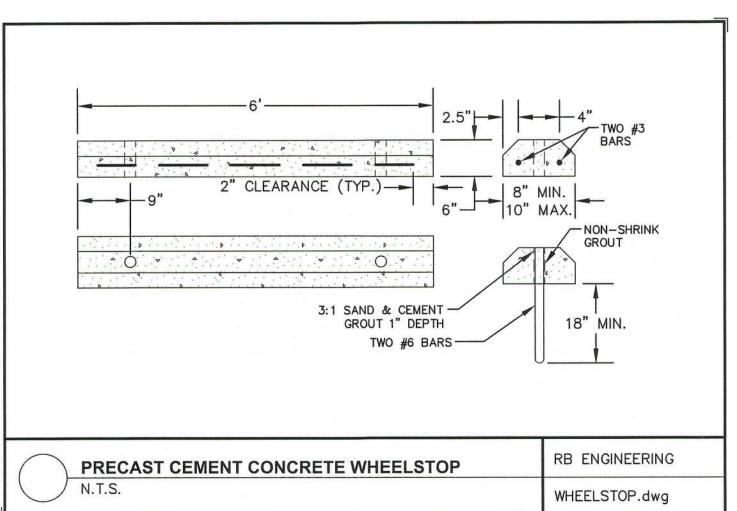
ONSITE SIDEWALK DETAIL	RB ENGINEERING
N.T.S.	ONSITE SIDEWALK.dwg

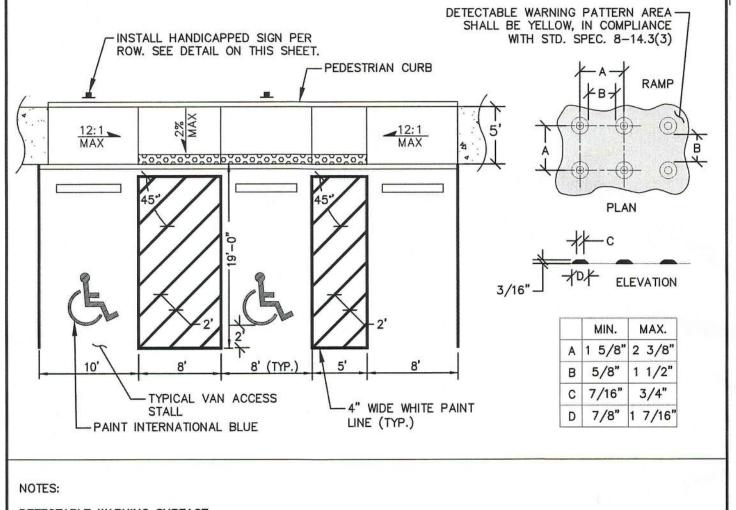






PAVING SECTION.dwg





DETECTABLE WARNING SURFACE THE DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP

(EXCLUSIVE OF FLARES) OR THE LANDING. THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE BACK OF CURB, AND NEED NOT FOLLOW THE RADIUS. THE ROWS OF TRUNCATED DOMES SHALL BE

ALIGNED TO BE PERPENDICULAR TO GRADE BREAK

AT THE BACK OF CURB. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PARALLEL TO THE DIRECTION OF

5. IF CURB AND GUTTER ARE NOT PRESENT, SUCH AS A SHARED-USE PATH CONNECTION, THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE PAVEMENT EDGE.

SIDEWALK AND CURB RAMP 6. SEE STANDARD PLANS FOR SIDEWALK AND CURB RAMP DETAILS.

IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FORM THE RAIL. WHEN THE GRADE BREAK BETWEEN THE CURB RAMP AND THE LANDING IS LESS THAN OR EQUAL

TO 5 FT. FROM THE BACK OF CURB AT ALL POINTS, PLACE THE DETECTABLE WARNING SURFACE ON THE BOTTOM OF THE CURB RAMP.

ADA STALL AND ACCESSIBILITY N.T.S. SIGN DETAIL

1) INSTALL MUTCD SIGN R7-8 IN FRONT OF HANDICAPPED (2) POST REQUIRED IN 0.25 LANDSCAPE AREAS. ADHERE SIGN ONLY TO SIDING WHEN 1.25 BUILDING BORDERS SIDEWALK. └ 0.5' 1.0' ø RB ENGINEERING

ADD_SIGN&STALL.dwg

PARKING

PARKING

ACCESSIBLE

STANDARD ROAD CONSTRUCTION NOTES

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND LEWIS COUNTY ROAD STANDARDS.

INSPECTION OF THE STORM DRAIN SYSTEM MUST BE CALLED FOR BEFORE ANY BACKFILL IS PLACED FOR THE DRAIN SYSTEM.

CATCH BASINS SHALL BE TYPE 1 WITH B-2A, WSDOT STANDARD PLANS, FRAME AND GRATE UNLESS OTHERWISE NOTED. THE OUTSIDE EDGE OF THE CATCH BASIN SHALL BE PLACED AT THE INTERSECTION OF THE CURB AND GUTTER AND 0.010' TO 0.015' BELOW FINISHED GRADE, OR IN THE GUTTER LINE OF THE ROLLED EDGE SECTION.

IF ADEQUATE INSPECTION IS NOT CALLED FOR BEFORE COMPLETION OF THE ROADWAY CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY OF ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE APPLICANT WILL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED.

IT WILL BE THE APPLICANT'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES INORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES AREA PROPERLY LOCATED AND THEIR INSTALLATION IS COORDINATED WITH THE ROAD CONSTRUCTION. ALL UTILITY RELOCATION WORK SHALL BE AT THE EXPENSE OF THE APPLICANT AND MUST BE IN ACCORDANCE WITH LEWIS COUNTY ROAD STANDARDS PRIOR TO ROAD ACCEPTANCE.

CULVERT PIPE SHALL BE CONCRETE, ALUMINUM OR PLASTIC 12-INCH DIAMETER MINIMUM PIPE WITH BEVELED ENDS UNLESS OTHERWISE NOTED. BEVELED ENDS SHALL BE A MINIMUM OF 3:1 IN THE DITCH LINE OR MATCH THE SLOPE IN A CUT OR FILL SECTION.

BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION.

ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE BY LEWIS COUNTY AND WITHIN 24 MONTHS THEREAFTER SHALL BE CORRECTED BY THE APPLICANT.

ANY REVISIONS TO PLANS MUST BE MADE BY THE PROJECT ENGINEER AND APPROVED BY THE COUNTY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.

ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD AND THE LEWIS COUNTY STANDARD PAVEMENT MARKING DETAILS.

BEFORE STRIPING TAKES PLACE THE APPLICANT SHALL CONTACT THE LEWIS COUNTY TRAFFIC DIVISION FOR COORDINATION OF THE STRIPING.

A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

LEWIS COUNTY SHALL BE NOTIFIED 72 HOURS BEFORE CONSTRUCTION IS STARTED. THE APPLICANT SHALL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY. OTHER JURISDICTIONS, PROJECT ENGINEER, UTILITY COMPANIES, SUBCONTRACTORS AND OTHER NECESSARY PARTIES TO THE PROJECT SHALL BE PRESENT AT THE PRE-CONSTRUCTION CONFERENCE.

SLOPES SHALL BE STABILIZED TO PREVENT EROSION. IN CASE EROSION OCCURS IN DITCHES, DITCH LINING IS TO BE PROVIDED AS REQUESTED AND SPECIFIED BY THE

ALL TYPE 2 CATCH BASINS OVER 4 FEET IN HEIGHT SHALL HAVE STANDARD

WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.

THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THE 1/8 INCH FROM THE LOWER EDGE OF A 10 FOOT STRAIGHT EDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRAVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THE 1/4 INCH IN 10 FEET FROM THE RATE OF TRAVERSE SLOPE SHOWN ON THE

MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE COUNTY ENGINEER. IN THE CASE OF PLAT ROADS, TESTING AND SAMPLING SHALL BE PERFORMED BY A PRIVATE TESTING LABORATORY. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES.

ALL UTILITY WORK WITHIN EXISTING PAVEMENT REQUIRES A MINIMUM ROADWAY RECONSTRUCTION FROM THE CENTERLINE, TO INCLUDE GRINDING THE EXISTING PAVEMENT AND REPLACING IT WITH A MINIMUM 0.17' PAVEMENT.

> Any code requirements that may have been overlooked in this plan review. DOES NOT imply that the requirments has been waived. NCD

> > CITY OF MAPAVINE

APPROVED

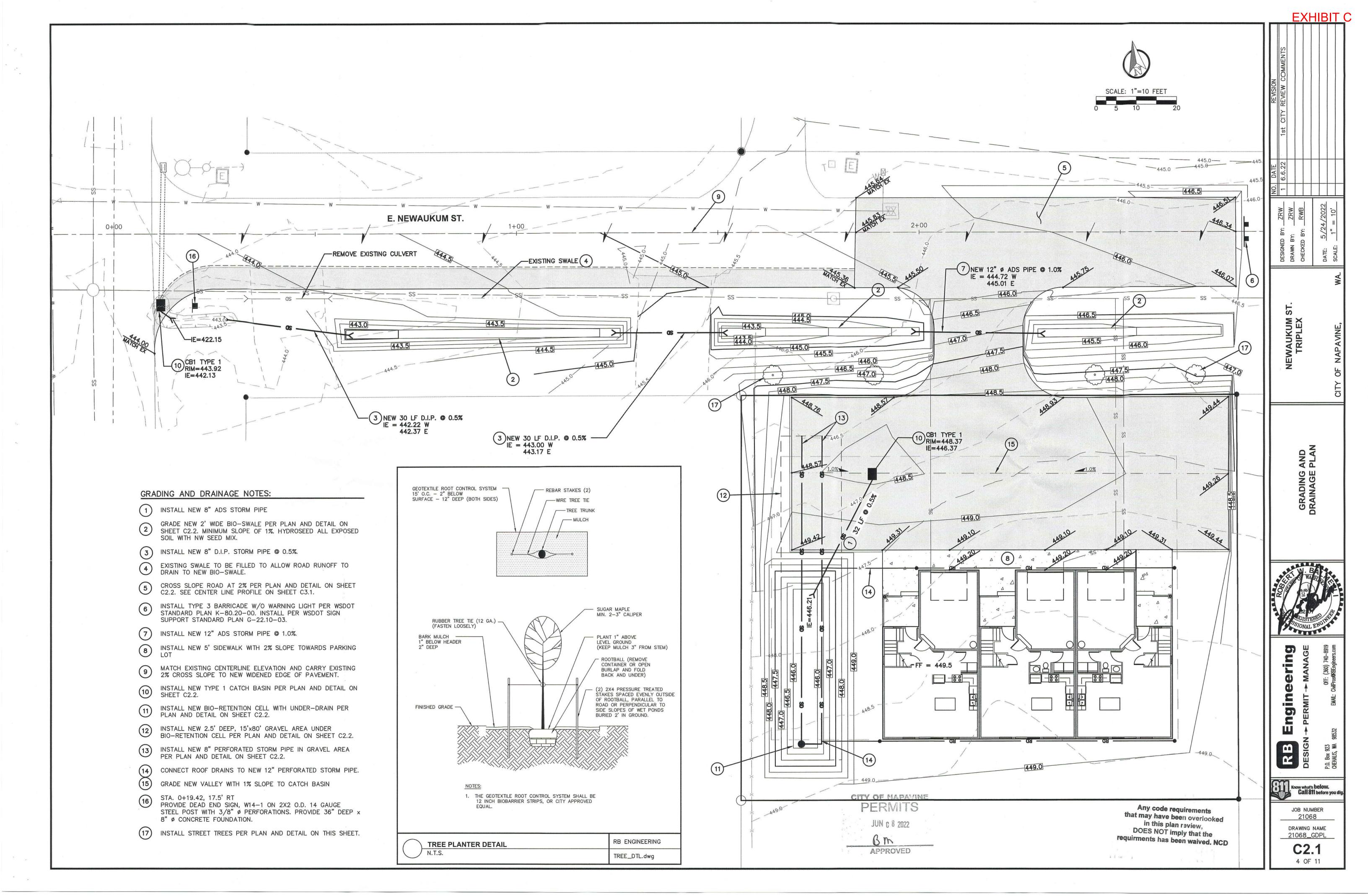
JOB NUMBER 21068

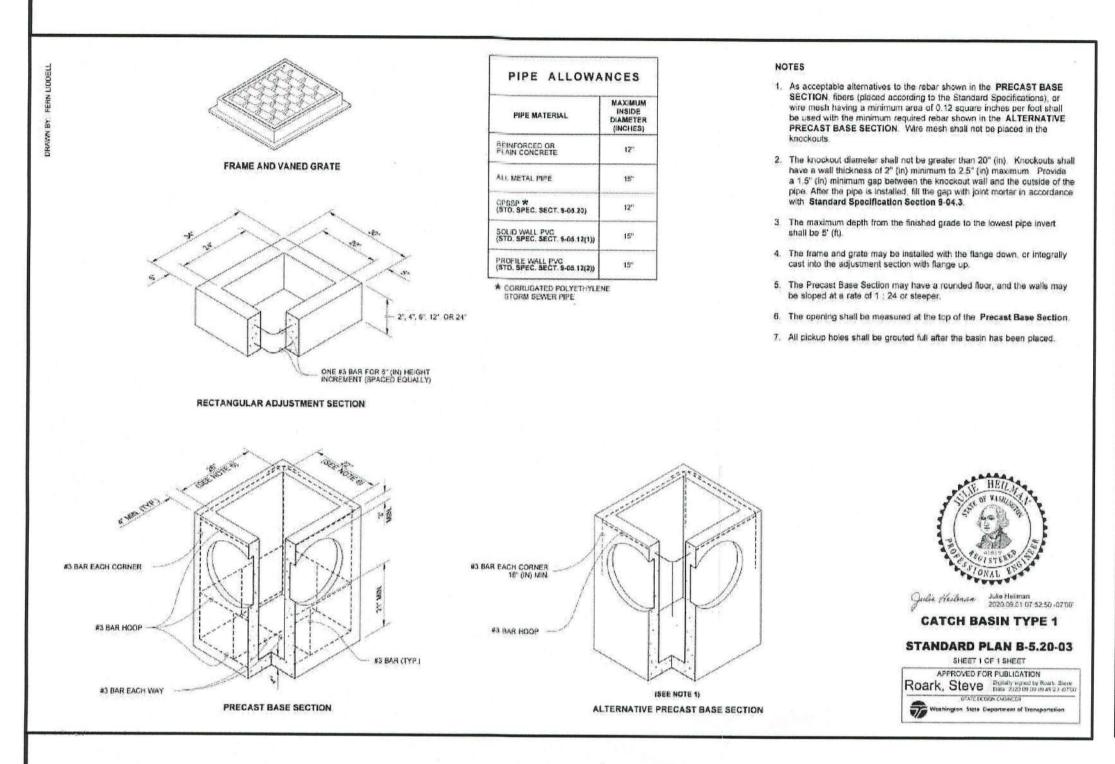
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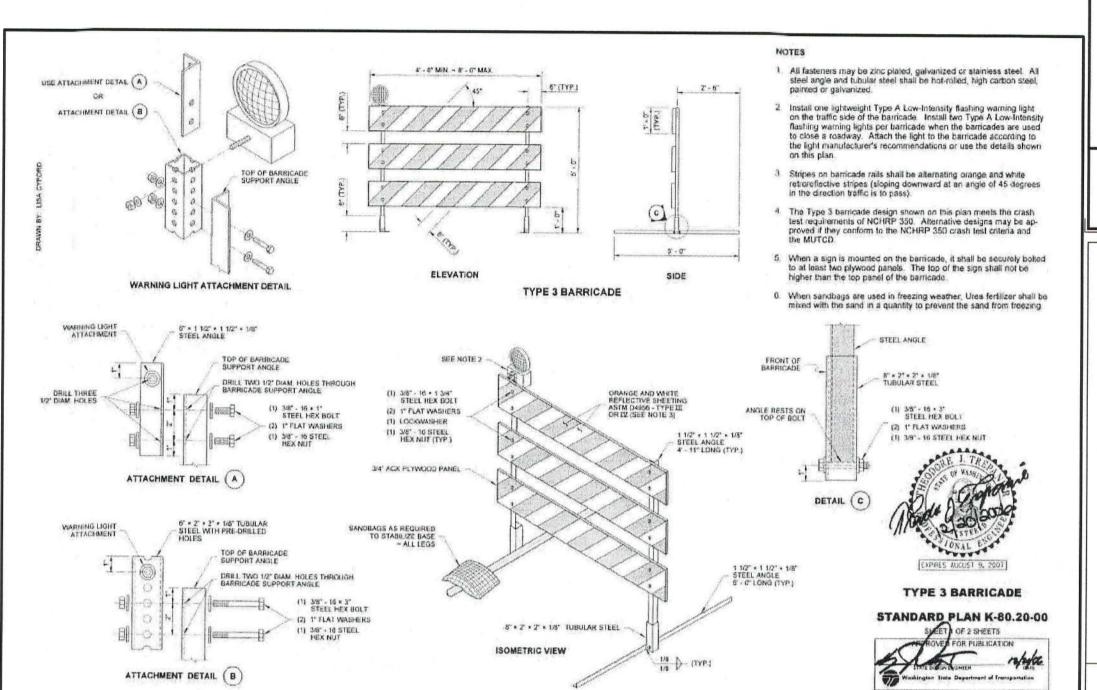
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DRAWING NAME 21068_HCDT

3 OF 11

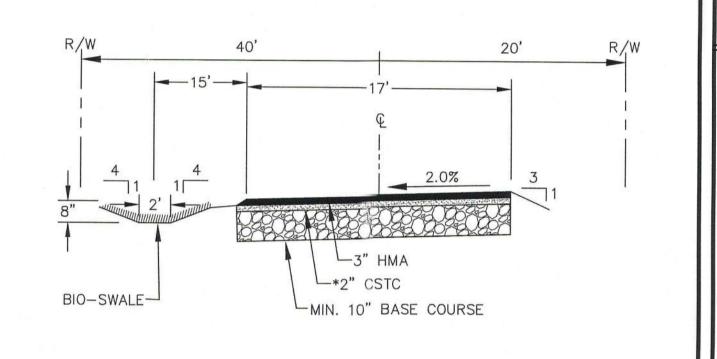






LINE WITH 6" SANDY CLAY LOAM SOIL HYROSEED WITH BIO-SWALE MIX NATIVE SOIL

RB ENGINEERING **BIOFILTRATION SWALE DETAIL** BIOFIL_SWALE.1.dwg



*ALL DEPTH ARE COMPACTED TO 95% MAX. DENSITY

CROSS-SLOPED ROAD SECTION W/ SWALE RB ENGINEERING ROAD_XSEC_CS.dwg

BIORETENTION SOIL MIX:

CONTRACTOR TO PROVIDE SUBMITTAL OF BIO-RETENTION GRADATION SOIL MIX TO CITY AND ENGINEER PRIOR TO CONSTRUCTION.

• 60% TO 65% GRAVELLY SAND AND 35% TO 40% COMPOST (SEE SPECIFICATION BELOW). GRAVELLY SAND GRADATION PER ASTM D 422 LESS THAN 5% PERCENT PASSING

SIEVE SIZE US NO. 0.375 100 US NO. 4 100 US NO. 10 75-90

US NO. 40 24-40 US NO. 100 4-10 US NO. 200 2-5

MAXIMUM CLAY CONTENT SHOULD BE LESS THAN 5%

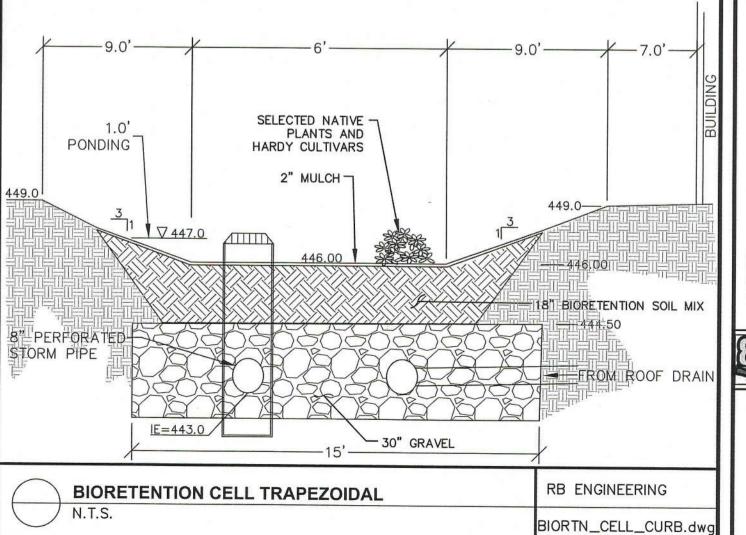
 SOIL MIXTURE SHOULD BE UNIFORM, FREE OF STONES, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES

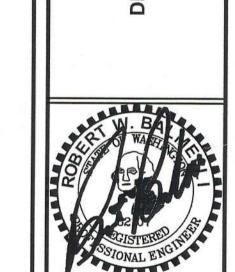
 ON-SITE SOIL MIXING OR PLACEMETN NOT ALLOWED IF SOIL IS SATURATED OR SUBJECTED TO WATER WITHIN 48 HOURS

 COVER AND STORE SOIL ACCORDINGLY TO PREVENT WETTING OR SATURATION TEST SOIL FOR FERTILITY AND MICRONUTRIENTS AND, IF NECESSARY, AMEN MIXTURE TO CREATE OPTIMUM CONDITIONS FOR PLANT ESTABLISHMENT AND EARLY GROWTH AT RATES RECOMMENDED BY AN INDEPENDENT LABORATORY SOIL TEST.

ORGANIC CONTENT OF THE SOIL MIXTURE SHOULD BE 5% TO 8%

 CATION EXCHANGE CAPACITY (C.E.C) MUST BE LESS THAN 5 MILLIEQUIVALINTS PER 100 GRAMS OF DRY SOIL.





Know what's below.
Call 811 before you dig

JOB NUMBER 21068 DRAWING NAME 21068_DRDT

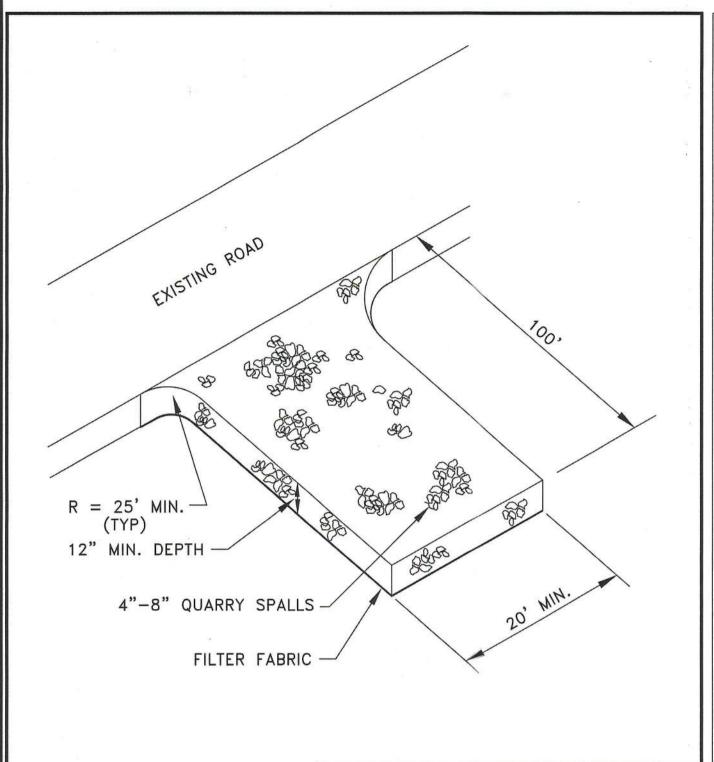
C2.2 5 OF 11

Any code requirements that may have been overlooked in this plan review, DOES NOT imply that the requirments has been waived. NCD

> CITY OF NAPAVINE PERMITS

> > BM APPROVED

JUN 0 8 2022



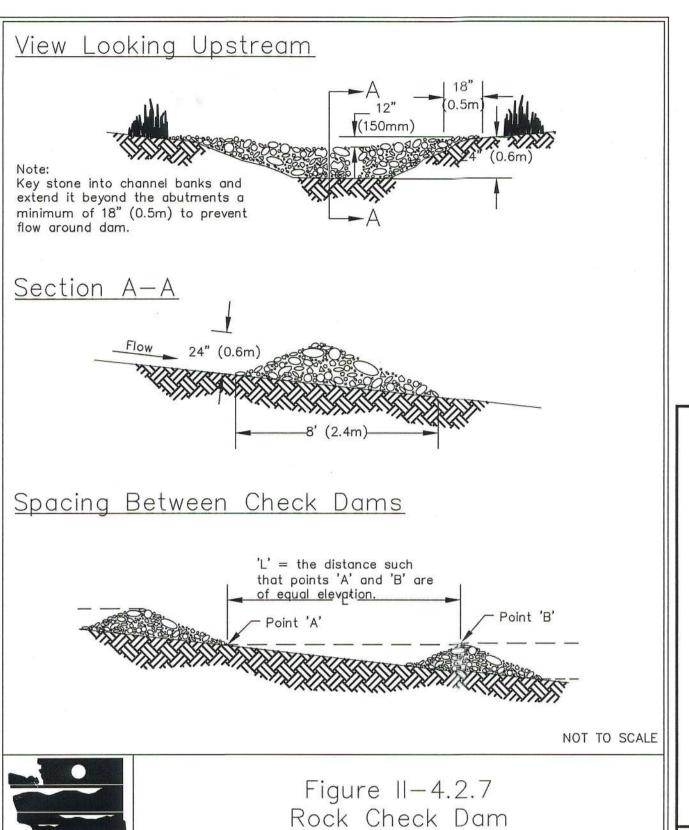
City of Napavine

CONSTRUCTION **ENTRANCE**

DEPARTMENT OF

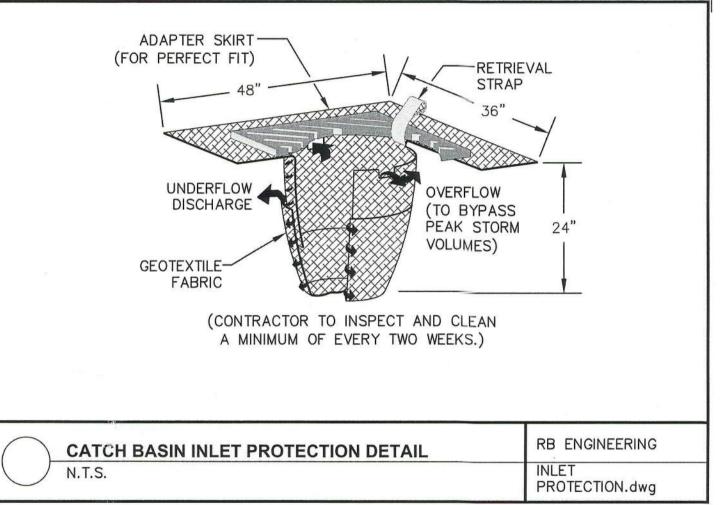
ECOLOGY

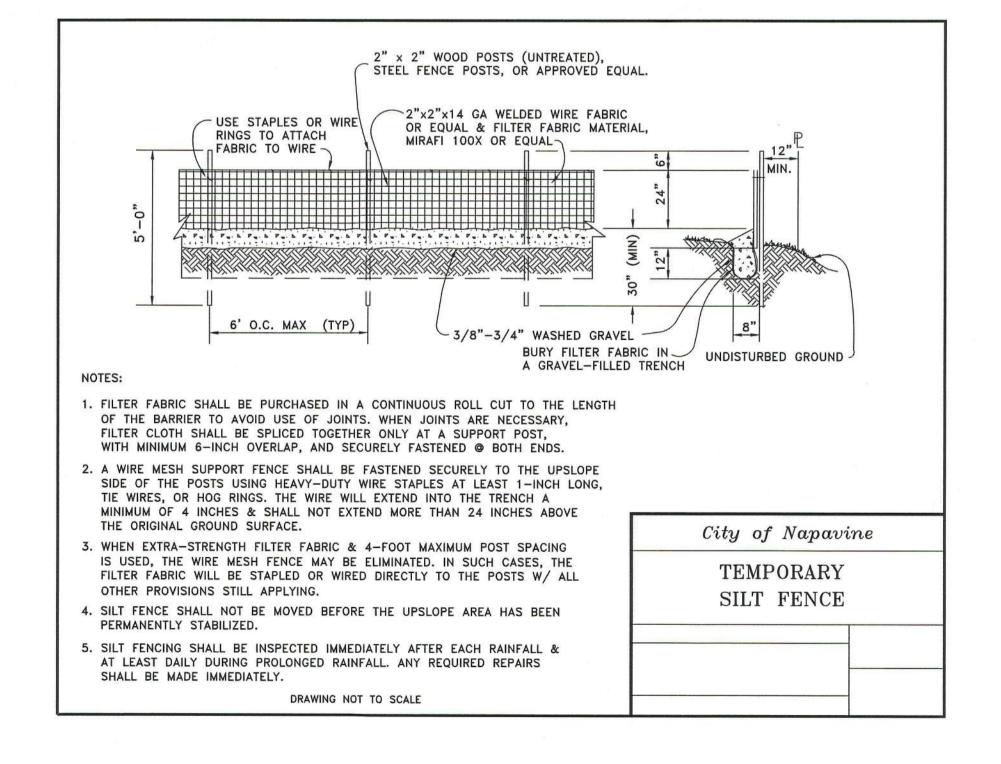
State of Washington



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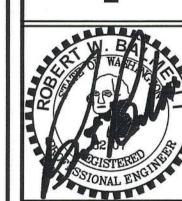


Revised July 2015

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> CITY OF NAPAVINE APPROVED

EXHIBIT C



ngine

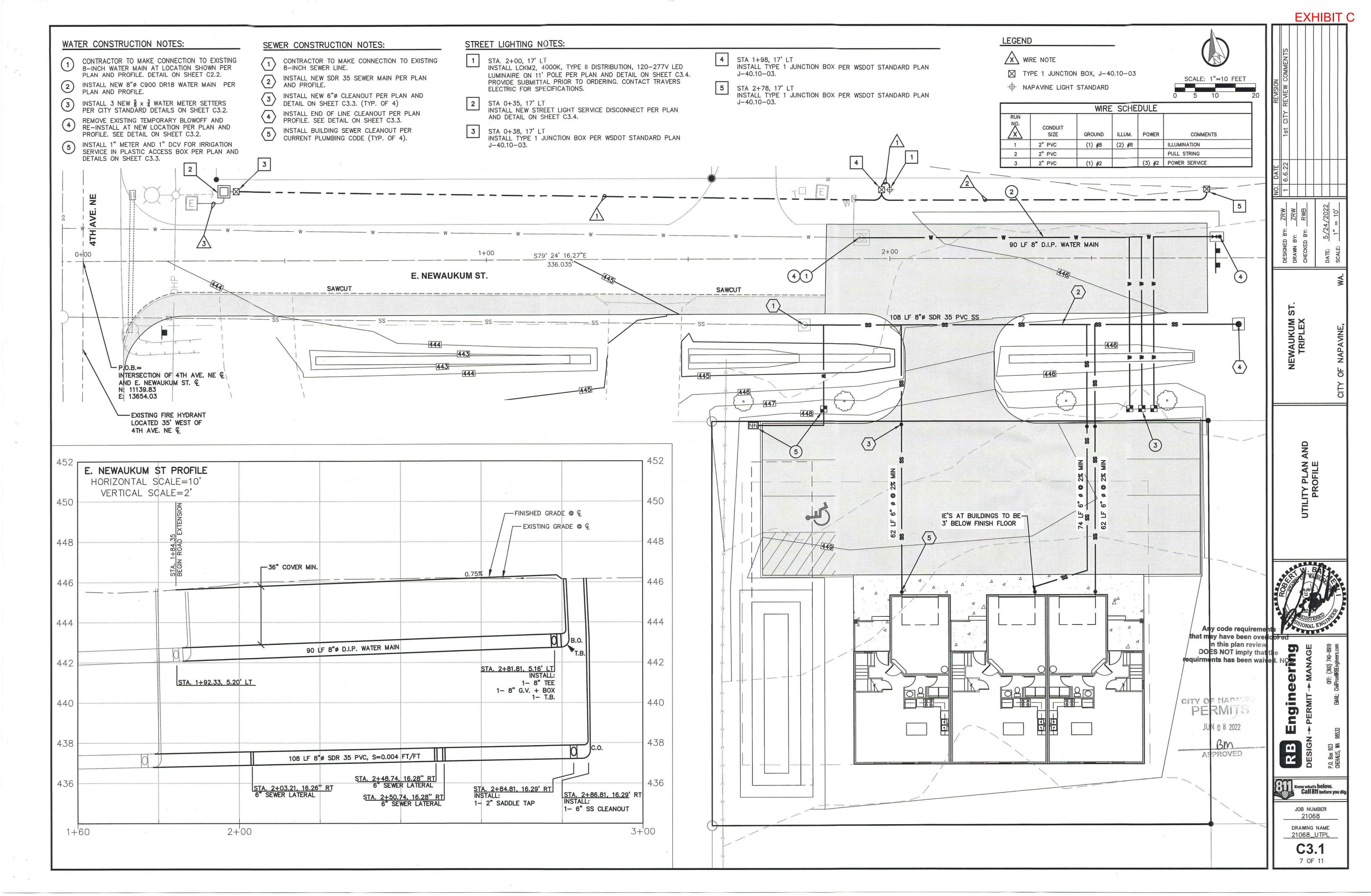


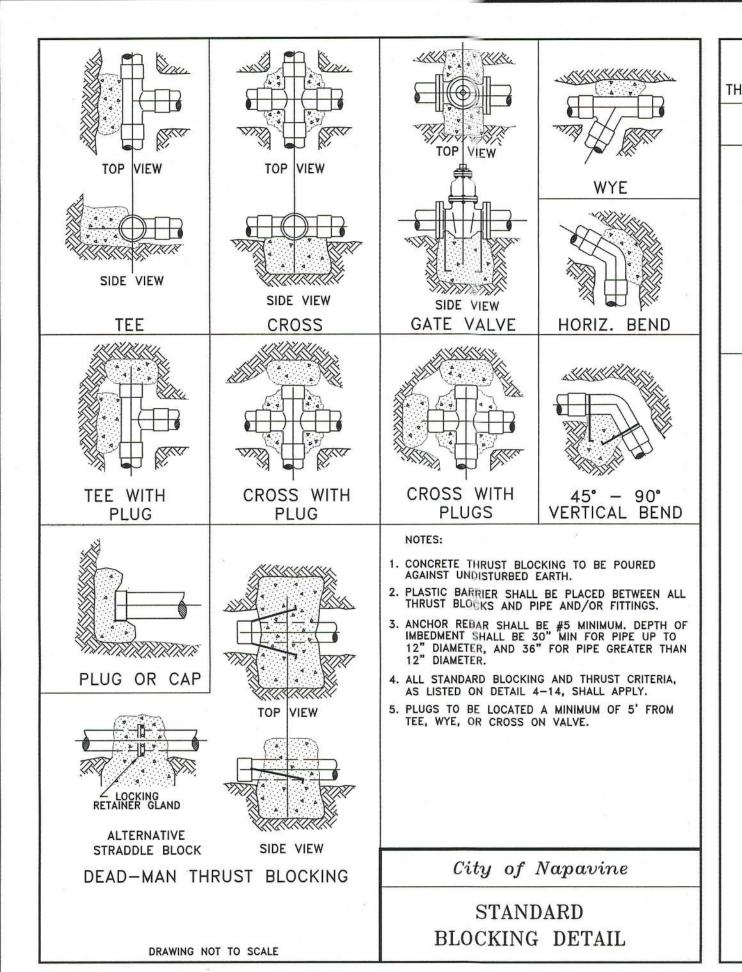
JOB NUMBER 21068

DRAWING NAME 21068_TESCDT

C2.3

6 OF 11





CSS-1 TACK SHALL BE APPLIED

USING PAVING ASPHALT AR4000W

ALL JOINTS SHALL BE SEALED

OR APPROVED EQUAL.

- EXISTING A.C. PAVEMENT

FOR TRENCH BACKFILL

BEDDING MATERIAL -

FOUNDATION TYPICAL. REQUIRED -

ONLY WHEN UNSUITABLE

MATERIALS ARE ENCOUNTERED

AND AS DIRECTED BY THE

PUBLIC WORKS DIRECTOR.

TO EDGES OF EXISTING PAVEMENT.

VARIES

0.5' MIN

MAXIMUM TRENCH

WIDTH SHALL BE 1.5' PLUS 1-1/2

City of Chehalis

TRENCH PAVEMENT

RESTORATION DETAIL

DWG. NO.

2 - 4

REVISED DATE

1/02/2003

GASKET, I.P. THREADS, & STAINLESS STEEL DOUBLE STRAPS.

APPROVED BY

CITY ENGINEER

5', WHICHEVER S GREATER

MINIMUM 0.25' CLASS 'B' A.C.P. -

APPLIED IN MAXIMUM 0.17' LIFTS

0.67' BALLAST-

1' MIN.

NOTES:

(COMPACTED DEPTH) OR EXISTING PLUS 0.08', WHICHEVER IS GREATER,

0.5' MIN

MAXIMUM TRENCH

GREATER

1. ALL MATERIALS EXCEPT A.C.P. AND BEDDING

MATERIAL SHALL BE COMPACTED IN 6-INCH

2. BEDDING SHALL CONFORM TO SECTION 9-03.16

COMPACTION: BEDDING SHALL BE COMPACTED TO 95% MAX. AS DETERMINED BY ASTM D1557.

BACKFILL SHALL BE COMPACTED TO 85% IN

4. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION

AREAS AS DETERMINED BY ASTM D1557.

5. KEEP TRENCH BOTTOM COMPACTED WITH

TO PIPE INSTALLATION.

UNIFORM GRADE. A BELL JOINT SHALL BE

Drawing Not to Scale

BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE.

TRENCH BOTTOM SHALL BE TO GRADE PRIOR

REQUIRED AT EACH JOINT FOR PROPER SUPPORT, NO TEMPORARY SUPPORTS, I.E.

UNPAVED AREA, AND 95% IN PAVED OR SHOULDER

SHALL BE IN CONFORMANCE WITH THE MOST RECENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED

BY CITY OF CHEHALIS PUBLIC WORKS STANDARDS.

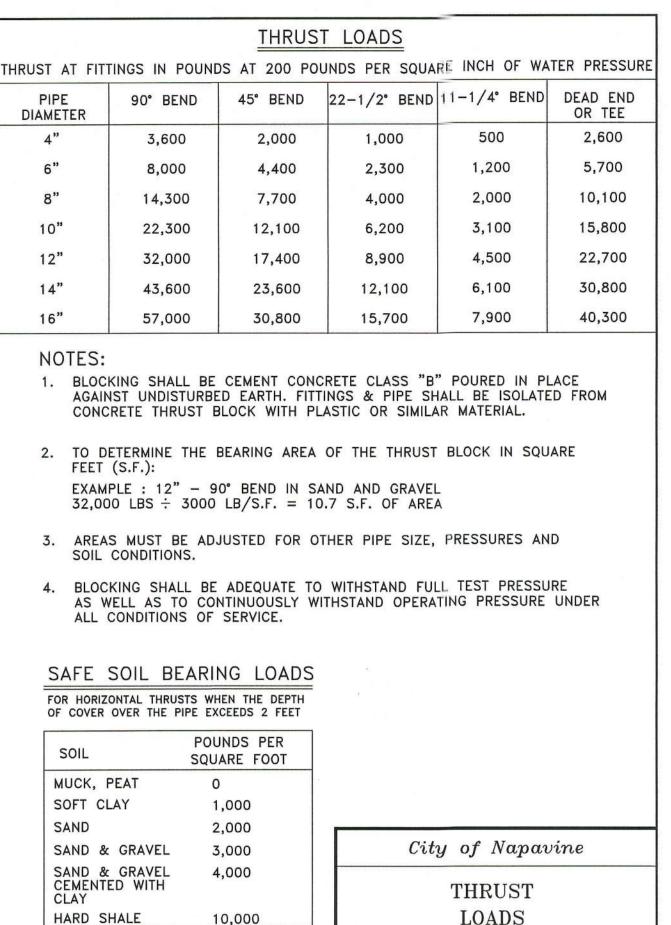
CITY OF CHEHALIS STANDARDS.

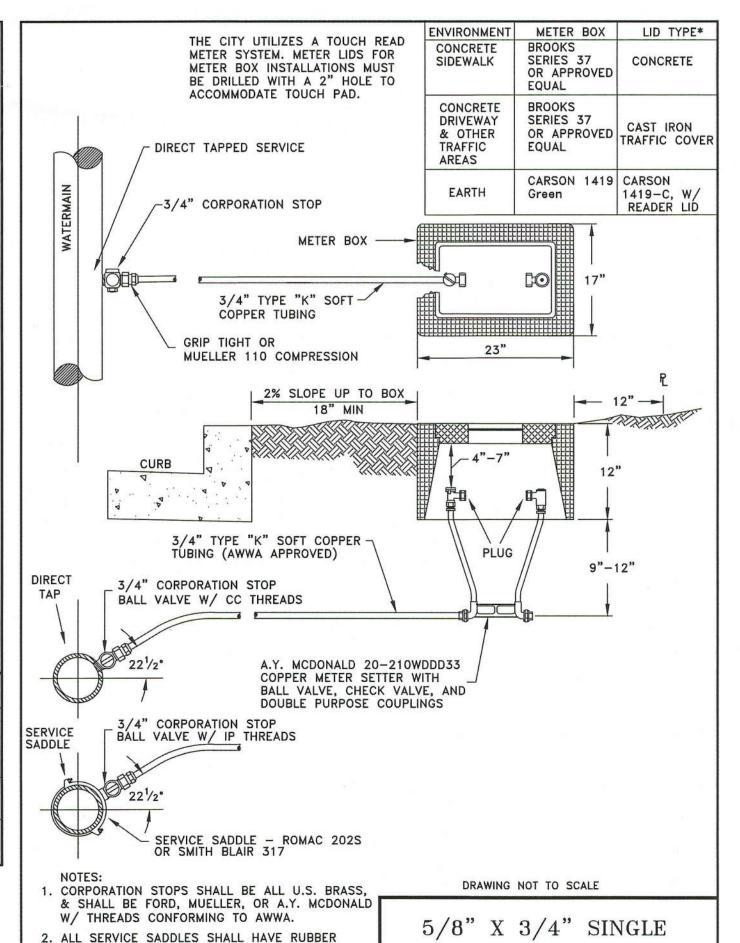
OF STANDARD SPECIFICATIONS AS AMENDED BY

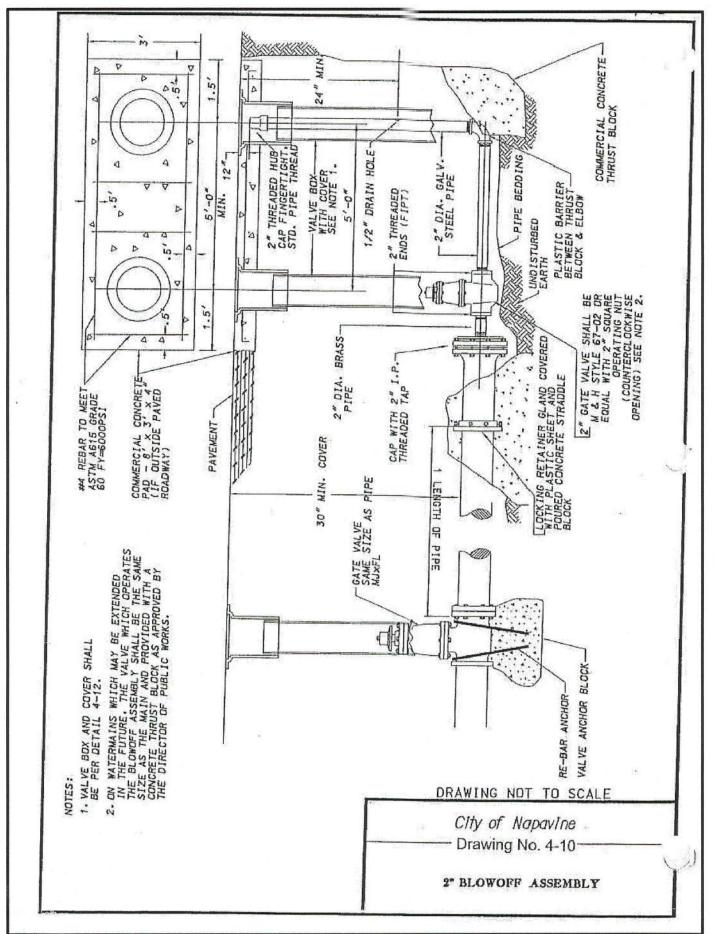
4 4 9 4 9 4 9 4 9

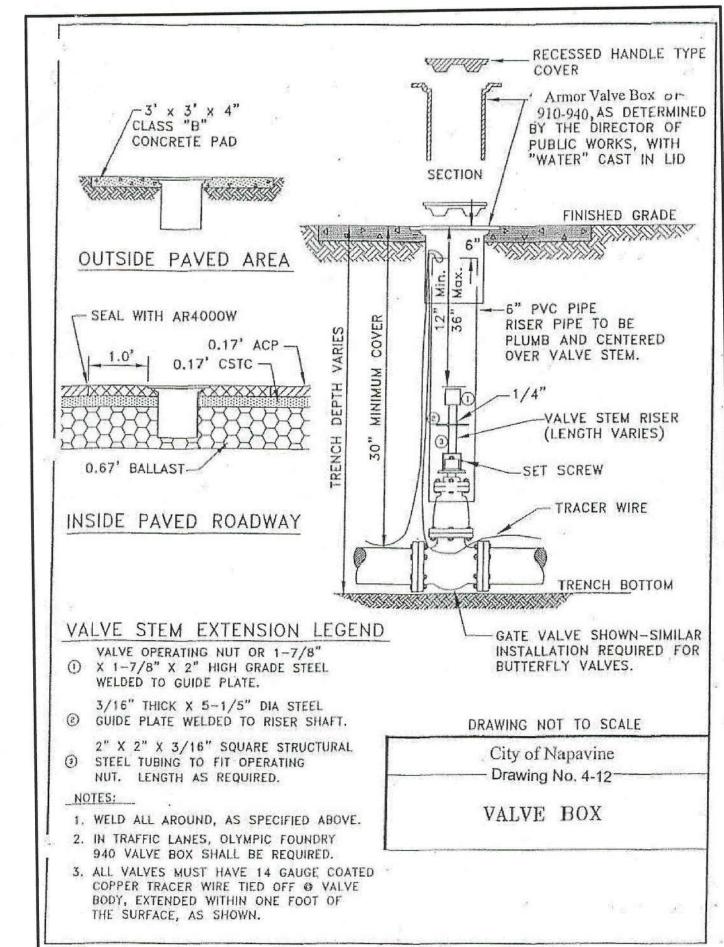
0.17' CRUSHED

SURFACING TOP COURSE









GENERAL NOTES (WATERMAIN INSTALLATION)

- 1. ALL MAIN LINE VALVES TO BE MARKED WITH CITY APPROVED CONCRETE OFFSET WATER MARKERS.
- 2. ALL SERVICE LINES AND STUB MAINS TO BE MARKED WITH CITY APPROVED MARKERS.

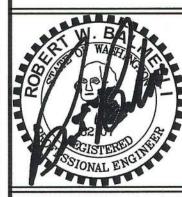
ANSI/NSF STANDARD 60 OR 61.

- 3. ALL WORKMANSHIP AND MATERIAL WILL BE IN ACCORDANCE WITH CITY OF NAPAVINE STANDARDS AND THE MOST RECENT COPY OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS AND
- 4. A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL WATERMAINS WILL BE DUCTILE IRON CEMENT MORTAR LINED THICKNESS CLASS 52 OR C900 PVC AS APPROVED.
- 6. GATE VALVES WILL BE RESILIENT WEDGE, NRS (NON-RISING STEM) WITH O-RINGS SEALS. VALVE ENDS WILL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES WILL CONFORM TO AWWA 509-80. VALVES WILL BE MUELLER, M&H, KENNEDY, CLOW R/W OR WATEROUS SERIES 500. EXISTING VALVES AND ALL VALVES INSTALLED DIRECTLY TO AND CONNECTED TO A PORTION OF THE ACTIVE WATER SYSTEM ARE TO BE OPERATED BY CITY EMPLOYEES ONLY.
- 7. FIRE HYDRANTS WILL BE INSTALLED EVERY 200' M&H SERIES 929, AND BE EQUIPPED WITH STORZ ADAPTORS. HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE UNIFORM FIRE CODE. HYDRANTS WILL BE BAGGED AND THE CONNECTING GATE VALVES LEFT CLOSED UNTIL THE SYSTEM HAS BEEN APPROVED. HYDRANTS MUST BE PAINTED WITH SUNBURST YELLOW HIGH-GRADE ENAMEL AFTER INSTALLATION.
- 8. ALL LINES WILL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE ABOVE REFERENCED SPECIFICATIONS. (SEE NOTE 1)
- 9. ALL PIPES AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE PLACED TWELVE (12) TO EIGHTEEN (18) INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC NON-BIODEGRADABLE, METAL CORE, OR BACKING MARKED "WATER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR, TAPE WILL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, TONING WIRE WILL BE INSTALLED OVER ALL PIPE AND SERVICES. TONING WIRE WILL BE UL LISTED, TYPE UF, FOURTEEN (14) GUAGE SOLID COATED COPPER WIRE, TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILLING AND LAID LOOSE ENOUGH TO PREVENT STRETCHING AND DAMAGE BEFORE BEING BROUGHT UP AND TIED OFF AT THE VALVE OPERATING NUT OR VALVE BOX. IF THE OPERATING NUT IS NOT EASILY ACCESSIBLE FROM THE GROUND SURFACE, THE COPPER WIRE WILL BE TIED OFF AT THE VALVE BOX IN SUCH A WAY THAT THE WIRE IS EASILY ACCESSIBLE FROM THE GROUND SURFACE. TWO (2) FEET OF SLACK WILL BE PROVIDED TO ALLOW FOR CONNECTION TO THE LOCATOR.
- A 1-LB MAGNESIUM ANODE WILL BE BURIED WITH THE PIPE EVERY 1,000 LINEAR FEET MAXIMUM FOR CATHODIC PROTECTION OF THE TONING WIRE. TONING WIRE SPLICES AND CONNECTIONS TO ANODES WILL JOIN WIRES BOTH MECHANICALLY AND ELECTRICALLY AND WILL EMPLOY EPOXY RESIN OR HEAT-SHRINK TAPE INSULATION. TONING WIRE WILL BE TESTED PRIOR TO ACCEPTANCE OF THE PIPE SYSTEM. A WRITTEN NOTICE FROM THE CONTRACTOR TO THE CITY MUST BE RECEIVED TWO (2) BUSINESS DAYS PRIOR TO WHEN TESTING IS REQUIRED.
- 10. THE CONTRACTOR WILL PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD AND APPROVED BY CITY OF NAPAVINE.
- 11. ALL WATERMAINS WILL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 12. ALL SERVICE LINES AND WATER VALVE LOCATIONS WILL BE MARKED ON THE FACE OF THE ADJACENT CURB WITH A "W" OR "WV" EMBOSSED 1/4 INCH INTO THE CONCRETE OR WITH CITY APPROVED MARKERS.
- 13. ALL WATER SYSTEM CONNECTIONS SERVING BUILDINGS OF PROPERTIES WITH DOMESTIC POTABLE WATER, FIRE SPRINKLER OR IRRIGATIONS SYSTEMS WILL COMPLY WITH THE MINIMUM BACKFLOW PREVENTION REQUIREMENTS ESTABLISHED BY THE DEPARTMENT OF HEALTH (DOH) AND THE CITY OF NAPAVINE CROSS-CONNECTION CONTROL PROGRAM.
- 14. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
- 15. THE CONTRACTOR TO NOTIFY THE CITY FIVE (5) BUSINESS DAYS PRIOR TO SCHEDULING A WATER SYSTEM SHUTDOWN, THE CITY'S WATER DIVISION WILL PERFORM ALL WATER SYSTEM SHUTDOWNS. WHEN CONNECTIONS REQUIRE "FEILD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTING VERIFIED BY THE CITY TWO (2) BUSINESS DAYS PRIOR TO THE DISTRIBUTION OF SHUTDOWN NOTICES. CUSTOMERS INVOLVED WITH OR AFFECTED BY WATER SERVICE INTERRUPTIONS WILL BE NOTIFIED AT LEAST FOURTY-EIGHT (48) HOURS IN ADVANCE. SHUTDOWNS WILL NOT BE PERMITTED ON FRIDAYS, WEEKENDS, OR HOLIDAYS WITHOUT WRITTEN AUTHORIZATION FROM THE DIRECTOR OF PUBLIC WORKS.
- 16. WHEN CONNECTING TO AN EXISTING WATERLINE WHERE A NEW VALVE IS NOT TO BE INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO THESE STANDARDS BY THE CONTRACTOR PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR WILL MAKE THE NECESSARY ADDITIONAL PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTING TO THE EXISTING SYSTEM OR WILL INSTALL A NEW VALVE, NEW LINES WILL NOT BE CONNECTED TO THE EXISTING SYSTEM UNTIL ALL REQUIRED TESTS HAVE BEEN PASSED.

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> CITY OF NAPAVINE JUN 0 8 2022

> > APPROVED



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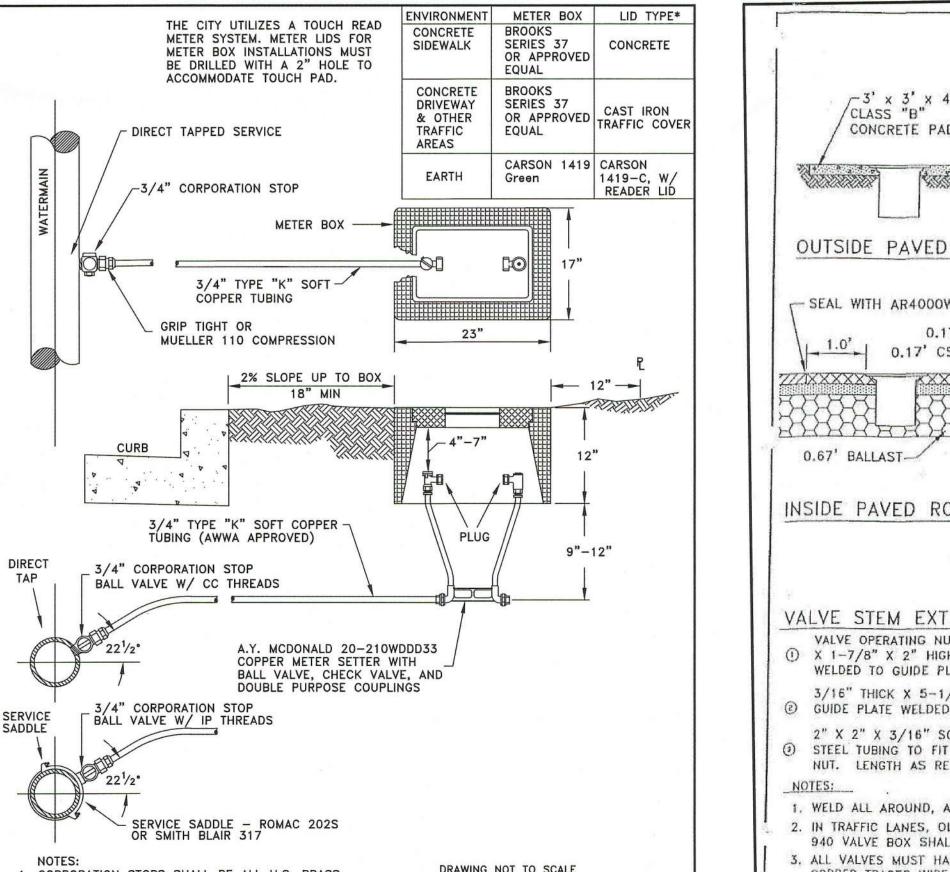


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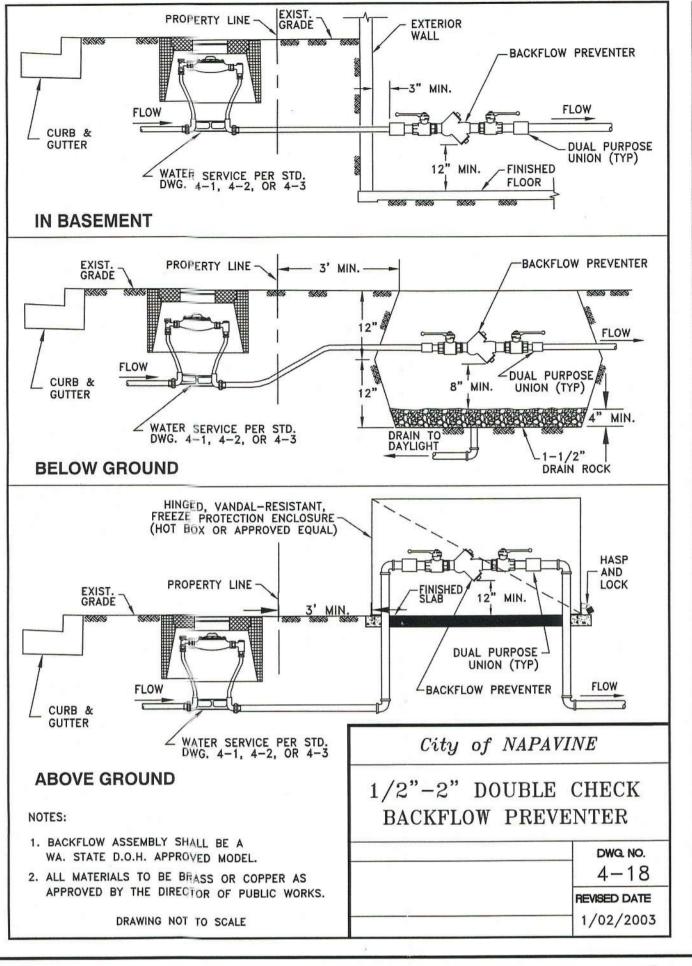
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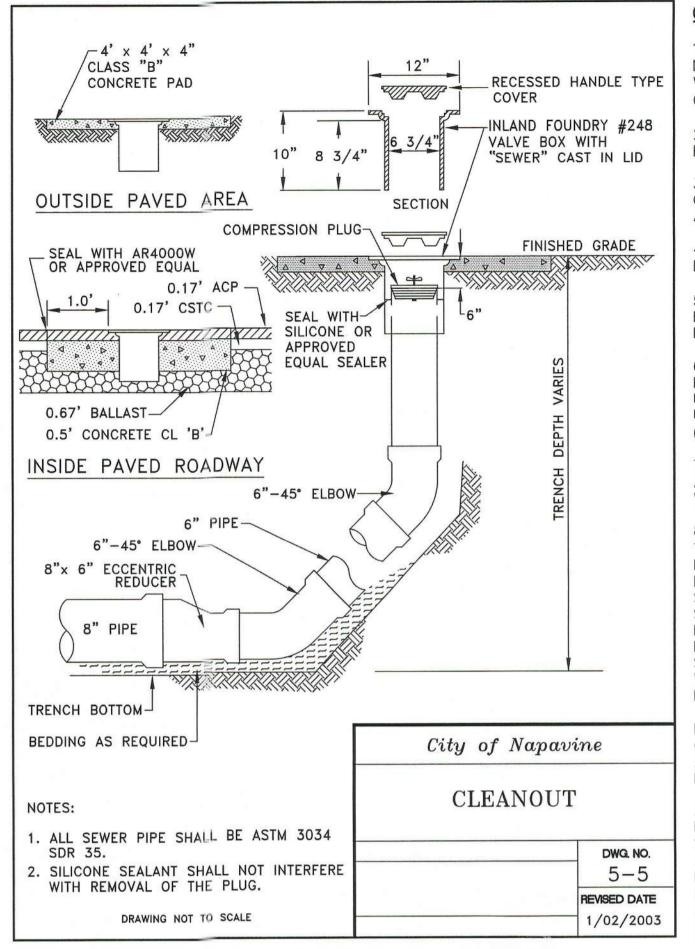
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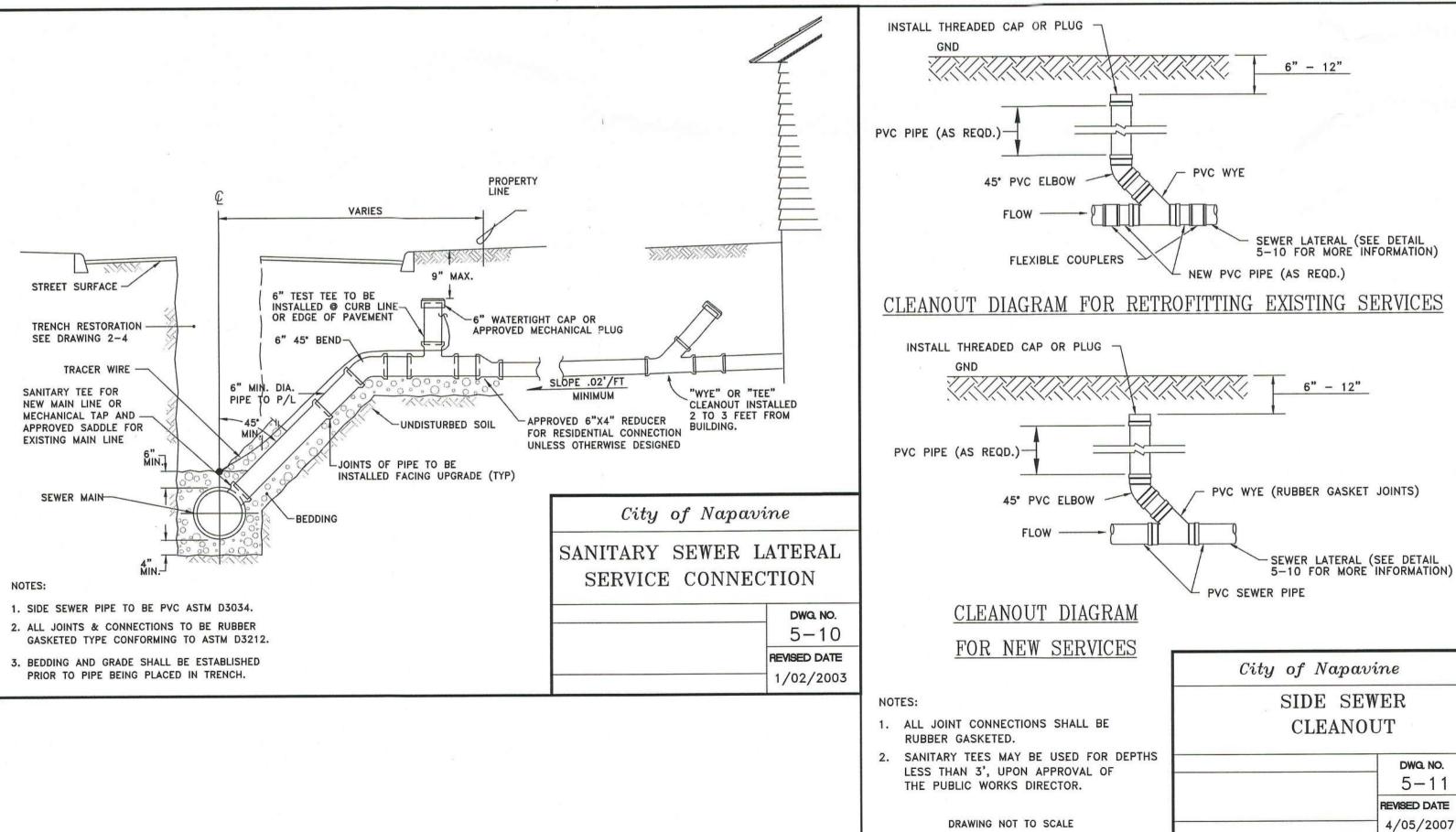
C3.2 8 OF 11



WATER SERVICE







GENERAL NOTES (SANITARY SEWER MAIN INSTALLATION)

1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF NAPAVINE STANDARDS AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA)

2. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF NAPAVINE WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

3. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT—OF—WAY, THE CONTRACTOR WILL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.

4. A PRE-CONSTRUCTION MEETING WILL BE HELD WITH A PUBLIC WORKS DEPARTMENT REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.

5. THE PUBLIC WORKS DEPARTMENT WILL BE NOTIFIED A MINIMUM OF TWO (2) BUSINESS DAYS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A PUBLIC WORKS REPRESENTATIVE WILL BE PRESENT AT THE TIME OF THE TAP.

6. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR WILL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION.

7. ALL SEWER MAINS WILL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK, STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.

8. ALL PIPE AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE PLACED TWELVE (12) TO FIGHTEFN (18) INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC NON-BIODEGRADABLE METAL CORE OR BACKING MARKED "SEWER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. IF VISIBILITY CANNOT BE MAINTAINED BETWEEN STRUCTURES ALONG THE STRAIGHT ALIGNMENT OF A SEWER, TONING WIRE WILL BE INSTALLED ABOVE THE SEWER LINE AT A DEPTH NO GREATER THAN 48 INCHES. TAPE WILL BE TERRA TAPE "D" OR AN APPROVED EQUAL. IN ADDITION, STEP MAINS, FORCE MAINS, AND CURVILINEAR SEWERS WILL BE INSTALLED WITH TONING WIRE TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILL.

IF TONING WIRE IS REQUIRED. IT WILL BE UL LISTED. TYPE UF, 14-GAUGE COPPER. THE WIRE WILL BE LAID LOOSELY ENOUGH TO PREVENT STRETCHING AND DAMAGE. THE WIRE WILL BE WRAPPED TO A MANHOLE OR CLEANOUT RINGS ON GRAVITY SEWER OR VALVE BODY ON STEP MAINS.

A 1-LB MAGNESIUM ANODE WILL BE BURIED WITH THE PIPE EVERY 1,000 LINEAR FEET MAXIMUM FOR CATHODIC PROTECTION OF THE WIRE. TONING WIRE SPLICES AND CONNECTIONS TO ANODES WILL JOIN WIRES BOTH MECHANICALLY AND ELECTRICALLY AND WILL EMPLOY EPOXY RESIN OR HEAT-SHRINK TAPE INSULATION. TONING WIRE WILL BE TESTED PRIOR TO ACCEPTANCE OF THE PIPE SYSTEM. A WRITTEN NOTICE FROM THE CONTRACTOR TO THE CITY TWO (2) BUSINESS DAYS PRIOR TO TESTING IS REQUIRED. ON A CURVILINEAR SEWER. THE WIRE WILL BE BROUGHT UP. BARED AND WRAPPED THREE (3) TIMES AROUND THE MANHOLE RING. THE TAPE AND WIRE WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

9. BEDDING OF THE SEWER MAIN AND COMPACTION OF THE BACKFILL MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH THE ABOVE SPECIFICATION. (SEE GENERAL NOTE 1)

10. ALL MANHOLES AND CLEANOUTS OUTSIDE THE PAVED AREA WILL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS 5.3 AND 5.5.

11. WHEN TEMPORARY STREET PATCHING IS ALLOWED BY THE CITY, COLD MIX ASPHALT WILL BE PLACED TO A MAXIMUM DEPTH OF ONE (1) INCH. IH CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED BY THE

12. EROSION CONTROL MEASURES CONFORMING TO THE MOST RECENT VERSION OF THE CITY OF NAPAVINE STORMWATER MANAGEMENT PLAN AND CHAPTER 3 OF THESE STANDARDS WILL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.

13. PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED.

14. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON-SITE AT ALL TIMES. "APPROVED" PLANS, ARE TYPICALLY SIGNIFIED BY THE SIGNATURE OF THE DIRECTOR OF PUBLIC WORKS.

15. ANY CHANGES TO THE DESIGN WILL FIRST BE REVIEWED AND APPROVED BY THE DEVELOPER'S PROJECT ENGINEER AND THEN THE DIRECTOR OF PUBLIC WORKS PRIOR TO IMPLEMENTATION.

16. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A PUBLIC WORKS REPRESENTATIVE. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCES OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PUBLIC WORKS DEPARTMENT IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE RE-EXCAVATED FOR INSPECTION AT NO COST TO THE CITY.

GRAVITY SEWER

1. GRAVITY SEWER MAINS WILL MEET THE FOLLOWING: PVC PIPE WILL CONFORM TO ASTM P 3034 SDR 35. ASTM F 794. OR ASTM F 679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM 3212 AND ASTM F 477.

2. PRE-CAST MANHOLES WILL MEET THE REQUIREMENTS OF ASTM C 478. MANHOLES WILL BE TYPE 1-48" AS SPECIFIED ON THE PLANS. JOINTS WILL BE RUBBER GASKET CONFORMING TO ASTM C 443 AND WILL BE GROUTED FROM THE INSIDE. LIFT HOLES WILL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE (SEE GENERAL NOTE 1).

3. SIDE SEWER SERVICES WILL BE PVC, ASTM D 3034 SDR 35 WITH FLEXIBLE GASKET JOINTS. SIDE SEWER CONNECTIONS WILL BE MADE BY A SADDLE TAP TO AN EXISTING MAIN. (SEE STANDARD DRAWING 5-12), OR A SANITARY TEE FROM A NEW MAIN CONNECTED ABOVE THE SPRINGLINE OF THE PIPE. SIDE SEWER SERVICES WILL BE INSTALLED ACCORDING TO APPLICABLE STANDARD DETAIL(S).

4. ALL SIDE SEWER LOCATIONS WILL BE MARKED ON THE FACE OF THE CURB WITH AN "S" EMBOSSED 14-INCH INTO THE CONCRETE.

5. ALL LINES WILL BE HIGH VELOCITY CLEANED, TELEVISED, AND SUBJECTED TO A LOW PRESSURE AIR TEST PER CURRENT WSDOT/APWA SPECIFICATIONS AFTER BACKFILLING, BUT PRIOR TO PAVING (SEE GENERAL NOTE 1). HYDRANT FLUSHING OF LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE SANITARY SEWER MAIN WILL INCLUDE TELEVISION INSPECTING OF THE MAIN BY AND AT THE EXPENSE OF THE CONTRACTOR IN THE PRESENCE OF A PUBLIC WORKS REPRESENTATIVE. IMMEDIATELY PRIOR TO TELEVISION INSPECTING FROUGH WATER WILL BE RUN DOWN THE LINE TO COME OUT THE LOWER MANHOLE AND THE LINE IS FLUSHED CLEAN. A COPY OF THE VIDEO WILL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT. ACCEPTANCE OF THE LINE WILL BE MADE AFTER THE TAPE HAS BEEN REVIEWED AND APPROVED BY THE INSPECTOR. A TEST OF ALL MANHOLES IN ACCORDANCE WITH THESE STANDARDS IS ALSO REQUIRED. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.

1. ALL BURIED POWER FOR STEP SYSTEMS WILL BE INSTALLED ACCORDING TO ALL CURRENT AND APPLICABLE ELECTRICAL CODES.

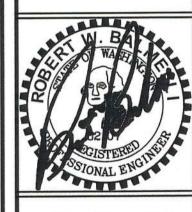
2. ALL BURIED POWER FOR STEP SYSTEMS WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED TWELVE (12) INCHES ABOVE THE BURIED POWER. THE MARKER WILL BE PLASTIC NON-BIODEGRADABLE METAL CORE BACKING MARKED 'POWER." TAPE TO BE FURNISHED BY THE CONTRACTOR.

3. ALL STEP MAINS WILL BE HYDROSTATICALLY TESTED AT 100 PSIG FOR FIFTEEN (15) MINUTES ACCORDING TO THE METHODS FOR HYDROSTATIC TESTING OF WATERLINES IN THE MOST RECENT VERSION OF THE WSDOT/APWA SPECIFICATIONS. ALL MATERIALS AND LABOR ARE TO BE PROVIDED BY THE CONTRACTOR. IN ADDITION, ALL STEP MAINS WILL BE PIGGED IN THE PRESENCE OF A PUBLIC WORKS REPRESENTATIVE, PRIOR TO PLACING THE STEP MAIN IN SERVICE.

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> > CITY OF MAPAVINE PERMITS JUN 0 8 2022

> > > APPROVED



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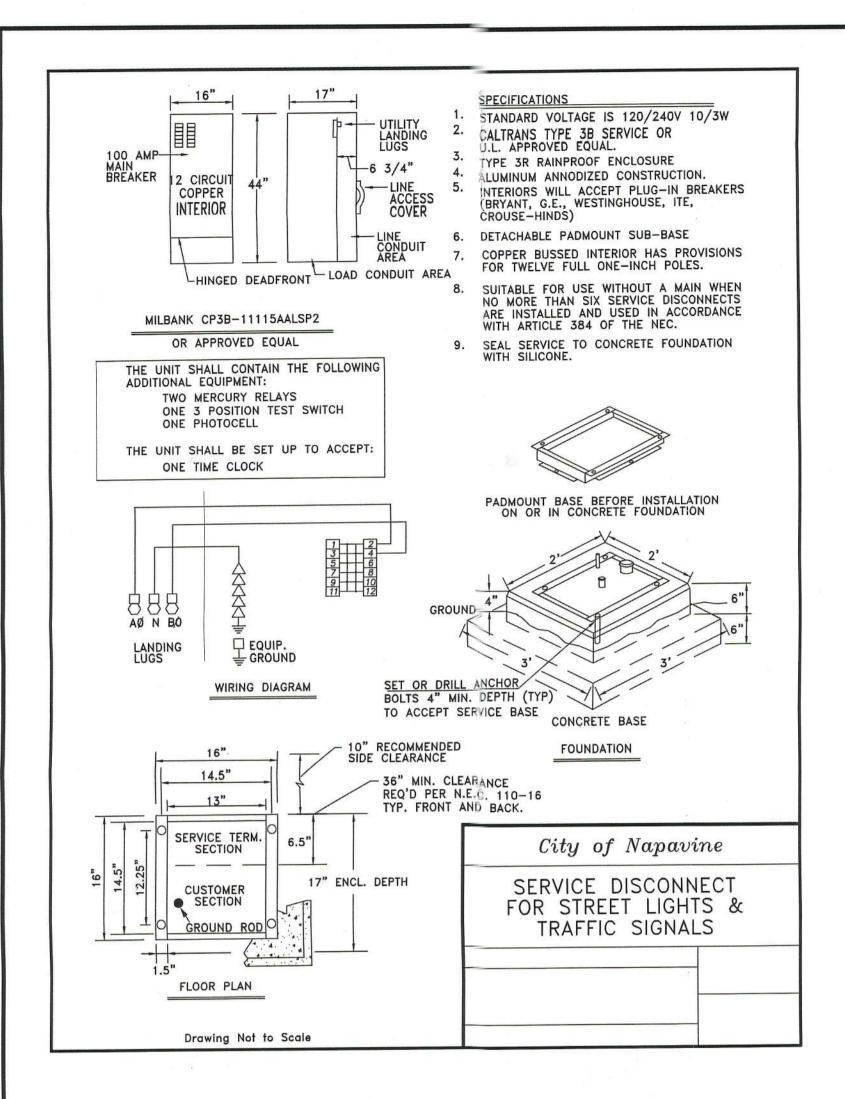


JOB NUMBER

21068 DRAWING NAME 21068_SWDT

C3.3

9 OF 11





output each. LED's are available in standard Neutral

White (4000K), or optional Cool White (5000K) or

Warm White (3000K). Consult Factory for other LED

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for

347-480VAC. Driver is mechanically fastened to a

retaining bracket. Main power quick disconnect

provided. Driver has a minimum 4KV of internal surge

protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F.

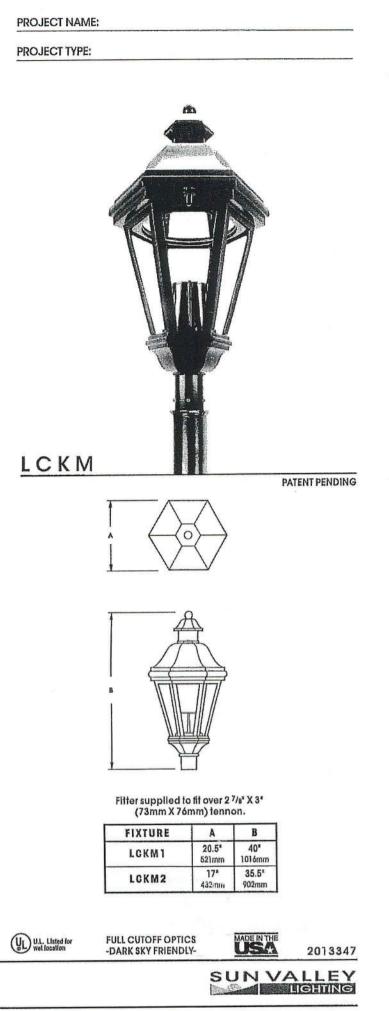
Four step iron phosphate pretreatment for protection and paint adhesion, 400°F bake for maximum hardness

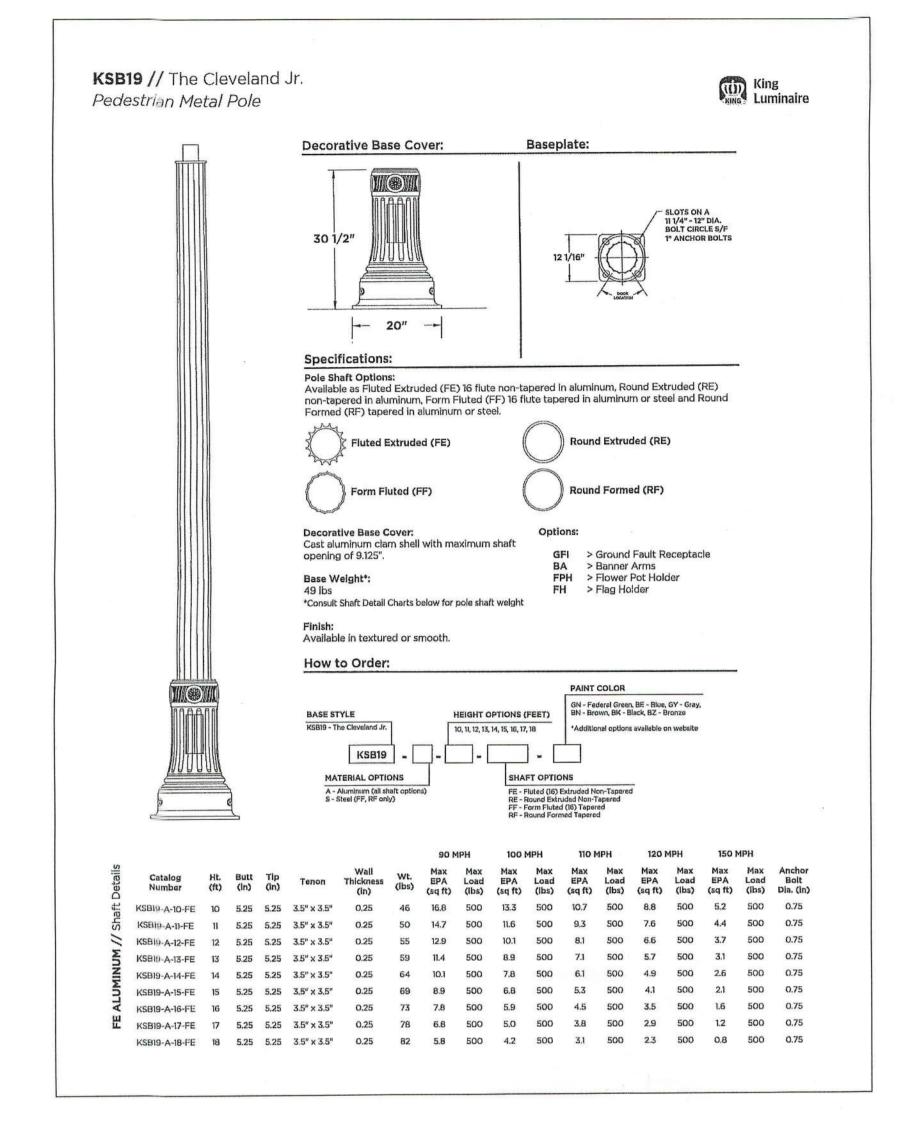
660 West Avenue O, Palmdote, CA 93551 Phone (661) 233-2000 Fox (661) 233-2001 www.usatig.com

and durability. Texture finish is standard.

Sun Valley Lighting

options.





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> CITY OF NAPAVINE PERMITS

> > JUN C 8 2022

Engineering

Know what's below.

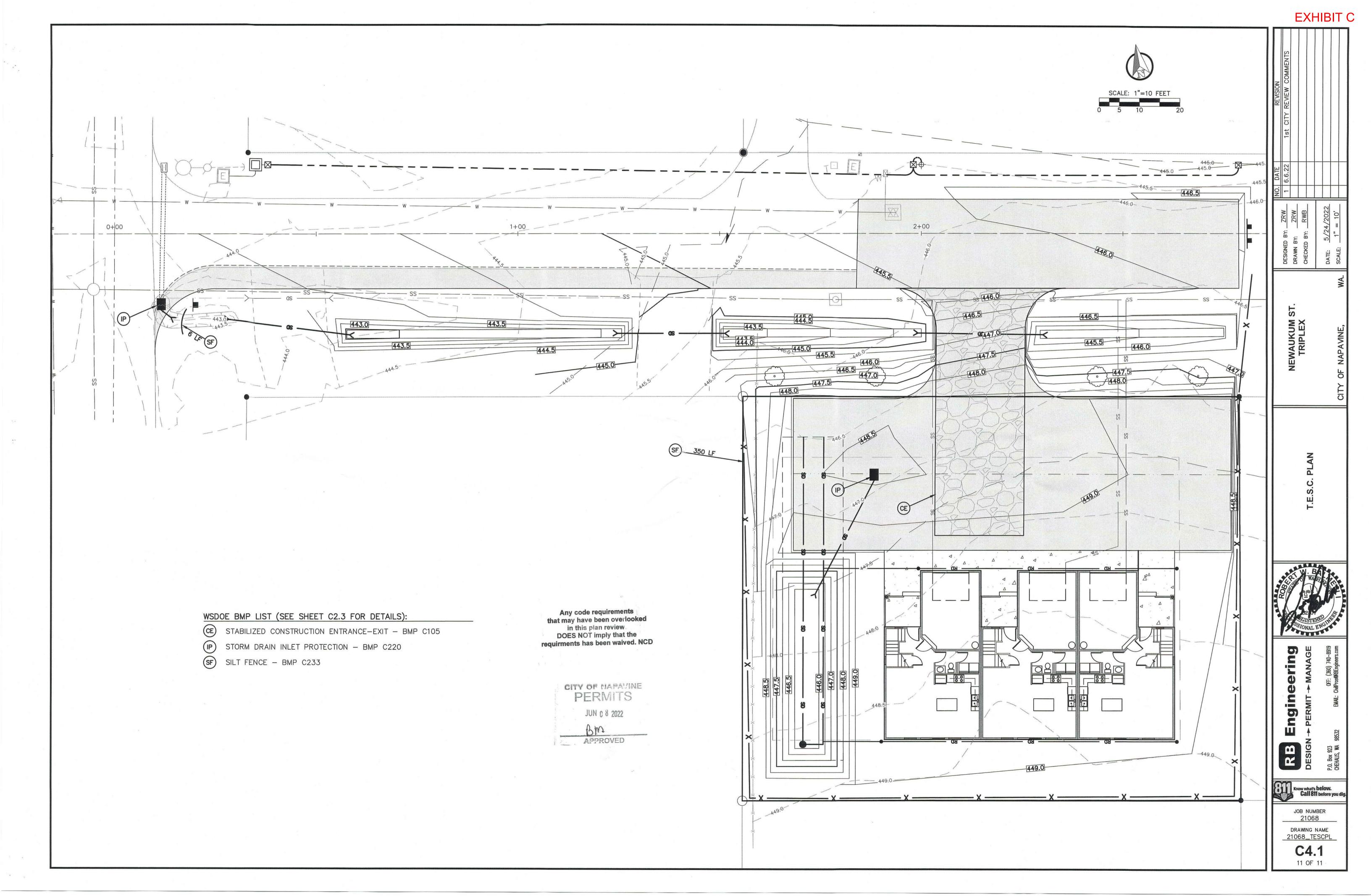
Call 811 before you dig

JOB NUMBER 21068 DRAWING NAME

21068_SLDT

C3.4

10 OF 11



NAPAVINE CITY COUNCIL

FINDINGS, CONCLUSIONS AND DECISION

Variance Application No.: <u>VA 04-12-2022</u>

Applicant: <u>Napavine Adventures, LLC – Kevin Klumper</u>

Date of Open Public Meeting: Planning Commission Hearing Date: MAY 16, 2022

City Council Hearing Date: MAY 24, 2022

Date of Written Decision: <u>JUNE 8, 2022</u>

Summary of Decision. The Applicant's request for Variance is [X] GRANTED [] DENIED.

Request for Variance. The Applicant, NAPAVINE ADENTURES – KEVIN KLUMPER, is requesting a Variance to waive right-of-way improvements on a new 4-plex. The public right-of-way improvements the applicant is requesting to waive are curb, gutter, sidewalks, and streetlighting construction and allow extension of the existing 17-foot road matching the recent construction approved for East Newaukum Street. Applicant states due to the variance allotted to the developer on the north side of East Newaukum Street, the half street improvements would not align with the existing road. The Applicant, Napavine Adventures, LLC. – Kevin Klumper, is the owner of the property at issue which is located at 0 E. Newaukum St., Napavine (Lewis County Parcel No. 008243-001-001), referred to herein as the "Subject Property."

Open Public Meeting Date. City Council considered the request on May 24, 2022, in an open public meeting.

Materials. Prior to the open public meeting, the City Council was provided the following:

- 1. Unsigned copy of the Planning Commission's Findings of Fact and Final Order;
- 2. Summary of the project revisions by Robert Balmelli from RB Engineering;
- 3. Napavine Planning Commission Public Hearing Minutes of May 16, 2022;
- 4. Napavine Planning Commission Minutes of May 2, 2022;
- 5. Community Development Staff Report supplying NMC 12.04.060 C. New Residential Sub-Division Streets, NMC 17.24.050 R3 Permitted Dimensions, NDC 2B.02 Minimum Street Standards, and NDC 2D.02 Illumination Design Standards attached to Minutes referred to above;
- 6. Notice of Public Hearing;
- 7. Public Hearing Notification Affidavit of Posting (and mailing) and;
- 8. Variance Application;

During the open public meeting before the City Council, the following materials were provided:

X No additional materials were submitted to the City Council.

	Additional materials were submitted and are on file and made a part of the record. Describe:
	nment. At the open public meeting, the Napavine Community Development Department ented the staff report and the opinion of the planning commission to the City Council.
Pub	lic Comment. At the open public meeting:
	No members of the community made comments in support of or in opposition to the Applicant's request.
	One or more members of the community made comments in support of the Applicant's request, and a summary of such comments together with identification of the individual(s) is on file herewith and made a part of the record.
X	One or more members of the community made comments in opposition to the Applicant's request, and a summary of such comments together with identification of the individual(s) is on file herewith and made a part of the record.
Fine Nap	lings. Upon consideration of the materials and testimony received as set forth above, the avine City Council enters the following Findings:
	Notice of the application for variance and notice of the open public meeting was properly given to the public and to residents within 300 feet of the Subject Property.
2	2. Applicant [X] IS [] IS NOT the owner of the Subject Property.
	[] If the Applicant is NOT the owner of the Subject Property, the Applicant has speaking authority on behalf of the Owner.
3	3. The Subject Property is located within the jurisdictional boundaries of the City of Napavine.
4	. This application for variance [] IS [X] IS NOT subject to environmental review.
4	. The current condition of the Subject Property is: UNDEVELOPED
6	The Subject Property is zoned [X] Residential [] Commercial [] Other:
7	. Land uses of properties adjacent to the Subject Property are as follows:
	i. Single family Dwelling to the North.ii. Undeveloped lot to the East.iii. Single family Dwelling to the South.

- iv. Single family Dwelling to the West.
- v. City right of way to the North and South, with residential lots thereafter.
- 8. The surrounding property uses are residential.
- 9. The area of the Subject Property is approximately 0.29 acres.
- 10. The Subject Property and the surrounding neighborhood is zoned residential.
- 11. As proposed, Applicant requests a variance to waive right-of-way improvements on a new 4-plex. The public right-of-way improvements the applicant is requesting to waive are curb, gutter, sidewalks, and streetlighting construction and allow extension of the existing 17-foot road matching the recent construction approved for East Newaukum Street. Applicant states due to the variance allotted to the developer on the north side of East Newaukum Street, the half street improvements would not align with the existing road.

However, after May 16, 2022, Planning Commission Meeting, Kevin Klumper's Engineer, Robert Balmelli, stated that the project would be better fit to extend the existing 17-foot width road to a full 22-foot width road, downsize the 4-plex to a 3-plex, and provide streetlighting on East Newaukum Street.

- 12. The requested Variance [X] IS [] IS NOT based on special circumstances related to the size, shape, topography, location or surroundings of the Subject Property.
- 13. The current plight of the Applicant [] IS [X] IS NOT due to the actions of the Applicant.
- 14. Allowing Applicant to waive right-of-way improvements for curb, gutter, sidewalks with the agreement to extend the existing 17-foot width road to a full 22-foot width road and provide streetlighting on East Newaukum Street [] WOULD [X] WOULD NOT constitute a grant of special privilege.
- 15. Granting the requested variance [] WOULD [X] WOULD NOT be materially detrimental to the public welfare.
- 16. Granting the requested variance [] WILL [X] WILL NOT be injurious to nearby properties.
- 17. Granting the requested variance [] WILL [X] WILL NOT adversely affect the goals and policies of the City of Napavine and its' comprehensive plan.
- 18. To the extent not fully set forth herein, the City Council incorporates the information presented in the materials to the Council, and incorporates Findings found in the Conclusions and Decision on this matter.

Conclusions. Upon consideration of the materials and comments received as set forth herein, and the Findings herein, the Napavine City Council makes the following Conclusions:

- 1. The City of Napavine, more specifically the Napavine City Council, has jurisdiction over the parties hereto, and the subject matter herein.
- 2. Applicant requests a variance from Napavine Municipal Code 12.04.060 C. New Residential Sub-Division Streets, Napavine Developer's Code 2B.02 Minimum Street Standards, and Napavine Developer's Code 2D.02 Illumination Design Standards.
- 3. The City is authorized to grant a variance following an open public meeting if the requirements of Napavine Municipal Code 17.80.040 are met, which states:

Where unnecessary hardships and practical difficulties, resulting from peculiarities of a specific property, render it difficult or inadequate to carry our all provisions of this title, the [city] shall have the power to grant a variance if it finds that the following conditions are met:

- A. The variance will not constitute a grant of special privilege inconsistent with the limitation upon uses of other properties in the vicinity and zone in which the subject property is located; and
- B. Such variance is necessary, because of special circumstances relating to the size, shape, topography, location, or surroundings of the subject property, to provide it with use rights in the zone in which the subject property is located; and provided that such unusual circumstances or conditions to not exist throughout the neighborhood or zone in which the property is located, and provided further that such unusual circumstances or conditions have not been created by action off the applicant; and
- C. The granting of such a variance will not be materially detrimental to the public welfare or injurious to the property or improvements in the vicinity and zone in which the subject property is situated; and
- D. The granting of such a variance will not adversely affect the comprehensive plan; and
- E. The variance, if grants, will not alter the essential character of the neighborhood or district in which the property is located, nor substantially or permanently impair the appropriate use of development of the adjacent property; and
- F. The variance so authorized shall become void after the expiration of six months if no substantial construction has taken place in accordance with the plans for which the variance was authorized.
- 4. To the extent not fully set forth herein, the City incorporates any Conclusions found in the Findings and Decision on this matter.

Deci	sion.	At the	open pi	ublic m	ieeting	held I	MAY	24,	2022,	the	City	Council	consi	dered	the
mate	rials p	resente	d and the	e comm	ients re	ceived	in su	pport	t of an	d/or	in opj	position	to this	matte	er.
	No m		as made	by the (City Co	uncil a	nd as	a res	ult the	App	olican	t's reque	est for	varian	ıce

Motion was made and seconded to [X] Grant [] Deny the Applicant's request for variance. X Opportunity for discussion held. Motion [X] Approved [] Denied.
The decision of the City Council shall take effect upon entry of the Council's written decision.
As set forth herein Applicant's request for Variance is [X] CRANTED [] DENIED

If granted, this Variance shall become void after the expiration of six (6) months if no substantial construction has taken place in accordance with the plans for which the Variance was authorized.

Note: This decision of the Napavine City Council constitutes a land use decision as defined under Chapter 36.70C RCW. Accordingly, an aggrieved party has a right of appeal to the Lewis County Superior Court by way of Petition filed within twenty-one (21) days of issuance of this Decision.

ATED THIS 8th day of JUNE, 2022.

Attest:

CLERK

Paelulle Decl

CITY OF NAPAVINE

407 BIRCH AVE SW, P. O. BOX 810, NAPAVINE, WA 98565 (360) 262-9344

VARIANCE APPLICATION

Fee: \$

File No	VA O	4-12-20:	22		Date 3/2	9/22	
Applicant	Na	oavine Adver	ntures - Kevin	Klumper			
Applicant	's Address_	790 S Mark	et Blvd, Cheh	alis WA 98532			_
Location (of property:	0 E Newa	ukum St, Nap	avine WA 98565	5		_
Lot_ 6 &	7	Block_	26	Add	ition_Rowells		
A. B.				uired on May 24		2021 n 300 feet of this	 parcel
	must acco	mpany this ap ants, condition	oplication.	s concerning type a copy of said doc	of improvemen	its contemplated e	
D.	I HEREB	Y REQUEST	A VARIANCE	E AS FOLLOWS:			
(Please	explain the	hardship for	which you are i	equesting a varian	ce to alleviate.))	
the roa	ad right of v	way. This pro	ject's frontage	as constructed or e is on the southe uct the entire sou	ern half of the	right of	

from the intersection. We are asking for a variance from curb, gutter and sidewalk and street lighting construction along the frontage and allow extension of the existing 17' road matching the recent construction approved for E. Newaukum St.

	Approval would allow the parcel to develop as a new 4-plex townhome development.
•	Would the strict application of the Zoning Regulations create practical difficulties or unnecessary hardshi you? (please explain)
	Yes, due to the variance allotted to the developer on the north side of E. Newaukum St., the half street improvements would not line up. Our variance is to extend the
	extension half street improvement consistent with the previous development work.
•	Are there exceptional circumstances of conditions applicable to this property or to the intended use or
•	Are there exceptional circumstances of conditions applicable to this property or to the intended use or development of the property that do not apply generally to other property in the same zone or neighborhouse.
	Are there exceptional circumstances of conditions applicable to this property or to the intended use or development of the property that do not apply generally to other property in the same zone or neighborho (Please explain). Yes, the construction of required frontage half street would not align with the existing

Variance Fee: \$	790 S. Market Blvd, Chehalis 98532
Receipt. No.	Address
Date Paid	360-219-3978 Telephone
STATE OF WASHINGTON)	receptions
COUNTY OF LEWIS SS	
his oath deposes and says that he prepared and read the forecitations contained therein are true, and has signed this purposes therein mentioned.	
Subscribed and sworn to before me this	day of March, 20 22
My Commission expires:	Ancemarie au
3-29-24	Notary Public in and for the State of Washington residing at Chendles
Community Development Director Da Mayor	5-25-2022 te 6-8-2022

12.04.060 - New residential sub-division streets.

- A. Establish street design for subdivisions of more than ten dwelling units on separate parcels, or multi-family dwelling units situated on a single parcel, and sufficient to accommodate required improvements, to include provisions for future use by adjacent property owners when applicable.
- B. Development of parcels shall be subject to minimum construction standards outlined in the WSDOT Standards.
- C. Development of parcels shall be required to resemble and match improvements on continuous parcels; i.e. sidewalks, culverts and driveways, curbs and gutters.
- D. Development of parcels parallel to Rush Road shall be allowed placement of a culvert and driveway.
- E. A new sub-division resembling developments such as Stadium Estates, Parkside Loop and Camden Yards shall be required to develop curbs and gutter and sidewalks when it creates a new neighborhood.
- F. Large sub-divisions consisting of ten tract or lots for single family dwelling or multi-family dwelling shall have a minimum thirty-foot right of way, twenty-foot paved surface, no parking allowed, or parking allowed on one side of the street, one sidewalk five feet in width, and one and one-half foot curb and gutter on both sides.
- G. Napavine City Council shall have the final authority to determine whether a development be required to install curbs and gutters, sidewalks and street lights and the city council may waive any other standard set forth herein as allowed by law. Provided however, a person must first exhaust administrative remedies prior to applying directly to the city council.

(Ord. No. 574, § 1, 1-23-18)

15.06.050 - Fire access road requirements.

A fire apparatus access road/fire lane can be a driveway, easement, public or private road that meets all the following requirements:

- A. Twenty-foot-wide unobstructed permanent all-weather driving surface with twenty-five-ton loading capacity.
- B. All portions of the exterior walls of residential structures must be within one hundred fifty feet from an approved fire apparatus access road/fire lane.
- C. Maximum grade of fifteen percent at all locations
- D. Vertical clearance of thirteen feet six inches.
- E. Minimum of twenty-foot inside turning radius and forty-foot outside turning radius at all bends and turns. A fire apparatus road/fire lane or driveway over one hundred fifty feet long is required to have an approved hammer head turn-around configuration. In some cases, a circular eighty-foot diameter turn-around may be acceptable.

(Ord. No. 608, § 1, 6-9-20)

2D ILLUMINATION

2D.01 General

New commercial or residential subdivisions, short plats or property development along the locations designated in Chapter 1 will provide streetlights in accordance with these Standards for such improvements of the city and they will be owned and operated by the city.

2D.02 Design Standards

A street lighting plan submitted by the applicant and approved by the Director of Public Works will be required for all streetlight installations. Type of installation will be as set forth in the most recent edition of WSDOT/APWA Standard Specifications, Illumination Standards Table in this chapter, and as directed by the city.

All public streetlights designs will be prepared by an engineering firm, licensed by the State of Washington, and capable of performing such work. All developments will submit the lighting plan on a separate plan sheet. After the system is completed and approved, a set of "as built" mylars will be submitted to the city as a permanent record.

Streetlights will be located in accordance with the design criteria contained herein, and as approved by the Director of Public Works. In addition, intersections will be illuminated to 1.5 times the highest foot-candle requirement of the streets surrounding the intersection. Exception: In residential and intermediate classes, local and collector streets intersecting other local and collector streets will not be subject to the 1.5 times illumination factor provided a luminaire is placed at the intersection. Energy efficient fixtures will be incorporated into the streetlight system whenever practical. Poles will be opposite across the roadway or on one side of the roadway. Staggered spacing will be allowed if the roadway width is such that adequate light levels cannot be provided with a one-sided or opposite/both-sided pattern.

For the purpose of this section, area classes are determined by zoning as follows:

Commercial

Multi-family, high density Central business district Freeway commercial General commercial Neighborhood commercial

Industrial

Heavy Industries Light Industries

<u>Intermediate</u>

Essential public facilities Commercial office/mixed use

Residential

Single Family, low density Single Family, medium density Multi-Family, medium density

As new zones are created, the Director of Public Works will classify them. The following criteria will be used to determine streetlight spacing:

AVERAGE MAIN	TAINED HORIZON	NTAL ILLUMINATIO	N (FOOT CANDL	ES)				
	AREA CLASS							
Road Class	Residential	Intermediate	Industrial	Commercial				
Local	0.2	0.6	N/A	N/A				
Collector	0.5	0.7	0.8	0.9				
Arterial	0.7	1.0	1.2	1.4				
Boulevard	0.7	1.0	1.2	1.4				

Uniformity ratio:

6:1 average:

Minimum for local

4:1 average: Minimum for collector

3:1 average: Minimum for arterial and boulevard

Dirt Factor: 0.85

Lamp Lumen Depreciation Factor: 0.2 fc (except local residential street)

Line loss calculations will show no more than a 5 percent voltage drop, in any circuit from the source to the most distant luminaire. Branch circuits will serve a minimum of four (4) luminaires.

Pole foundations will be per Standards Drawing 2-16. Luminaire poles will conform to Section 9-29 of the WSDOT Standard Specifications, except as modified herein. Light standards will be tapered aluminum with satin ground finish. The diameter at the base of the poll will not exceed nine (9) inches and the minimum thickness of the pole will be ¼-inches. Mounting height will be 30 feet. Mast arms will be single bracket, taper, minimum ten (10) feet in length. The shaft will heat treated after welding on the based flange to produce T6 temper. The pole davit arm will be designated to support effective streetlight luminaries with a minimum weight of 60 pounds and a minimum effective protected area (EPA) of 1.5 square feet. Poles will be designed to withstand a 100mph (AASHTO) wind loading with a 1.3 gust factor with luminaire and mast arm attached, without permanent deformation or failure. Minimum wall thickness will be 0.188 inches. Poles will be equipped with a removable metal ornamental pole cap secured to the shaft with stainless steel screws. Poles will have a minimum 3 ½ by 6-inch hand hole, with cover, near the base and will be equipped with a grounding lug. The pole will also be equipped with a 120V, 20 AMP recessed weatherproof power receptacle, that meet all applicable guidelines and standards. The receptacle will be located thirteen (13) feet above the base of the pole.

All luminaries will be a medium cut off, IES Type II distribution and will comply with all standards as established by the Public Utility District No. 1 of Lewis County. Unless otherwise required by PUD No. 1, luminaries will be: 20 watt, catalog #GEMDCLZOS3A11GMC31.

All streetlight electrical installations including wiring conduits and power connections will be located underground.

New street lighting will be designed and installed in such a way as to blend with any utility pole-mounted lighting that may exist along the frontage of adjacent properties, but also to accommodate future integration of conforming streetlights along the roadway. To this end, when streetlight(s) are required along the entire frontage, as appropriate, to allow for the interconnection of future streetlight installations. This requirement may be waived with approval of the Director of Public Works, based on the site-specific conditions of the property in question.

Alternate streetlight designs may be allowed or required by the city to accommodate the unique characteristics of a particular street or neighborhood. For example, special lighting may be deemed appropriate along a street that is part of a designated Historic District. The use of any alternate street lighting must be approved in writing by the Director of Public Works.

The General Notes on the following pages will be included on any plans dealing with streetlight design, in addition to all other applicable requirements.

General Notes (Street Light Construction)

- All workmanship, materials and testing will be in accordance with WSDOT/APWA, MUTCD, NEC or City
 of Napavine Public Works Standards unless otherwise specified below. In cases of conflict, the most
 stringent guidelines will apply.
- Washington State electrical permits and inspections are required for all street lighting installations
 within the City of Napavine. The contractor is responsible for obtaining said permits prior to any type
 of actual construction.
- 3. A clearly marked service disconnect will be provided for every lighting circuit. The location and installation of the disconnect will conform to Nation Electrical Code (NEC) and these Standards. The photo controls window will face north unless otherwise. The service disconnect will not be mounted on the luminaire pole. The service disconnect will be of a tyle equal to a Milbank CP3B-11115 AALSP2 service, 120/240 VAC, 10/3W, Caltrans Type 3B with contractors, photo controls and test switch. All service disconnects will be used to fullest capacity, i.e., maximum number of luminaires per circuit.
- 4. All lighting wire will be copper with a minimum size of #8. All wire will be suitable for wet locations. All wire will be installed in schedule 80 PVC conduit with a minimum of 1 ¼ inches. A bushing or bellend will be used at the end of a conduit that terminates at a junction box or luminaire pole. Conductor identification will be an integral part of the insulation of the conductors will be #8 copper. All splices or taps will be made by approved methods utilizing epoxy kits rated at 600 volts, minimum (i.e., 3-M 82-A2). All splices will be made with pressure type connectors (wire nuts will not be allowed). Direct burial wire will not be allowed. All other installation will conform to NEC, WSDOT/APWA and MUTCD standards.
- 5. Each luminaire pole will have an in-line, fused, watertight electrical disconnect located at the base of the pole. Access to these fused disconnects will be through the hand-hole on the pole. The hand-hole will be facing away from on-coming traffic. Additional conductor length will be left inside the pole and pull or junction box equal to a loop having a diameter of one foot. Load side of in-line fuse to luminaire head will be cable and pole bracket wire, 2 conductor, 19-strand copper, #10 and will be supported at the end of the luminaire arm by an approved means. Fuse size, disconnect installation and grounding in pole will conform to NEC standards.
- 6. Approve pull boxes or junction boxes will be installed when conduit runs are more than 200 feet. In addition, pull box or junction box will be located within 10 feet of each luminaire pole and at every road crossing. Boxes will be clearly and indelibly marked as lighting boxes by the legend, "L.T." or "LIGHTING". See WSDOT Standard Plan J-11a.
- 7. All lighting poles will have tapered round shafts with a linear taper of between 0.125 and 0.14 inches per foot. In existing developed areas, the city may require a specific pole type to maintain consistency within the developed area.
- 8. Cement concrete bases will follow WSDOT Standard Plan J-1b, Sheet 1, Foundation Detail. Conduit will extend between three (3) and six (6) inches above the concrete base.
- 9. All streetlights will include a recessed 120V weatherproof receptacle that meets all applicable guidelines and standards. The receptacle will be located thirteen (13) feet above the base of the pole.
- 10. Ann modification to approved plans will be reviewed and approved by the Director of Public Works **prior** to installation.

2B STREETS

2B.01 General

City streets are classified as arterials, collectors, and local access streets in accordance with regional transportation needs and the functional use each serves. Function is the controlling element for classification and will govern right-of-way, street width, and street geometries. The Director of Public Works will determine the classification of new streets.

Street design must provide for the maximum loading conditions anticipated. The width and grade of the pavement must conform to specific standards set forth herein for safety and uniformity. See Table I, *Minimum Street Standards*.

2B.02 Design Standards

The design of streets and roads will depend upon their type and usage. The design elements of city streets will conform to the Standards as set forth herein and current design practices as set forth in Chapter 1.

The layout of streets will provide for the continuation of existing principal streets in adjoining subdivisions or of their proper projection when adjoining property is not subdivided. Minor streets, which service primarily to provide access to abutting property, will be designed to discourage through traffic. See Table I, Minimum Street Standards.

Table I - Minimum Street Standards

DESIGN STANDARDS	BOULEVARD	MAJOR OR MINOR ARTERIAL	COMMERCIAL COLLECTOR	NEIGHBORHOOD COLLECTOR	LOCAL ACCESS	PRIVATE
DESIGN	Access and inter		N/A	N/A	N/A	N/A
LIMITATIONS	be limited. No on-street parking					
MINIMAL STRUCTURAL DESIGN	See Standard Drawing Number 2-2					
STANDARD RIGHT-OF-WAY	90' – 102'	84' – 104'	66' – 78'	60′	60′	N/A
STANDARD PAVEMENT WIDTH	48' (may have a 16' median)	48' – 60'	40′	28' – 40'	36′	20'
PARKING LANE	None Allowed	None Allowed	8' Both Sides	7' One Side	7' One Side	N/A
MINIMUM MAXIMUM GRADE	0.5% - 8.0%	0.5% - 8.0%	0.5% - 10.0%	0.5% - 12.0%	0.5% - 15.0%	0.5% - 15.0%
CURBS	Both Sides N/					N/A
SIDEWALKS	Both Sides 6' (mln) 8' – pedestrian corridor 10' – zero lot setback			Both Sides 5'	Both Sides 5'	One Side 5'
CUL-DE-SAC RADIUS (PAVEMENT WIDTH)	N/A	N/A	50' (on industrial street only)	N/A	47' with landscape island and island radius of 17'	Fire Department Standards
INTERSECTION CURB RADIUS	35'	35′	35′	35′	25′	25'
DESIGN SPEED (MPH)	40	40	30	30	25	N/A
MINIMUM CENTERLINE	w/ superelevation	w/ superelevation	150′	150′	100′	N/A
RADIUS	per AASHTO w/o superelevation 800'	per AASHTO w/o superelevation 600'				

- A. **Alignment** of major arterials, minor arterials and collectors will conform as nearly as possible with that shown in the Comprehensive Plan.
- B. **Grade.** Street grade should conform closely to the natural contour of the land. In some cases, the Director of Public Works may require a different grade. The minimum allowable grade will be 0.5 percent. The maximum allowable grade will be 8 15 percent depending on the street classification.
- C. **Width.** The pavement and right-of-way width will depend on the street classification. Table I, *Minimum Street Standards*, shows the minimum widths allowed.

The General Notes on the following page will be included on any plans dealing with street design in addition to all other applicable requirements.

General Notes (Street Construction)

- All workmanship and materials will be in accordance with the City of Napavine Standards and the most recent edition of the State of Washington Standard Specification for Road, Bridge, and Municipal Construction.
- The contactor will be responsible for all traffic control in accordance with MUTCD. Prior to disruption of any traffic, traffic control plans must be prepared and submitted to the city for approval. No work will commence until all approved traffic control plans are in place.
- 3. All curb and gutter, street grades, sidewalk grades, and any other vertical and/or horizontal alignment, will be staked by an engineering or surveying firm capable of performing such work.
- 4. Where new asphalt joins existing, the existing asphalt will be cut to a neat vertical edge and tacked with Asphalt Emulsion type CSS-1 in accordance with the Standard Specifications. The new asphalt will be feathered back over existing to provide for a seal at the saw cut location and the joint sealed with grad AR-4000W paving asphalt.
- 5. Compaction of subgrade, rock and asphalt will be in accordance with the Standard Specification.
- 6. Form and subgrade inspection by the Public Works Department is required **before** pouring concrete. Twenty-four hours (one workday) **advance** notice is required for form inspection.
- 7. Testing and sampling frequencies are described in the Standards.
- 8. The Public Works Department will install or oversee the installation of street name and regulatory signs at the contractor's and/or the developer's expense. All street name and regulatory signs will be requested and approved by the city **prior** to the start of construction.

2B.04 Signing and Striping

Street signs are defined as any regulatory, warning, or guide signs. The developer is responsible for the cost of all street signs. Street signs will comply with the latest edition of the *U.S. Department of Transportation Manual on Uniform Traffic Control Devices (MUTCD)*.

Pavement markings and street signs, including poles and hardware, will be paid for by the developer, but will be designed, furnished and installed by the city or by the developer under the city's direction to establish and maintain uniformity. The Public Works Department will determine whether pavement markings and street signs will be provided by the city or by the developer. If the work is to be performed by the city, the developer must submit a written request to Public Works and the developer will then be billed upon completion of the work.

2B.05 Right-of-Way

Right-of-way is determined by the functional classification of a street. Refer to Table I, *Minimum Street Standards*.

Right-of-Way requirements may be increased if additional lanes, pockets, transit lanes, but loading zones, operational speed, bike lanes, utilities, or other factors are required as determined by the Director of Public Works.

Right-of-way will be conveyed to the city on a recorded plat or by a right-of-way dedication deed.

2B.06 Private Streets

- A. Private streets may be allowed under the following conditions:
 - Permanently established by tract or lot providing legal access to serve not more than eight (8)
 dwelling units or businesses on separate parcels, or unlimited dwelling units or businesses
 situated on a single parcel and sufficient to accommodate required improvements to include
 provisions for future use by adjacent property owners when applicable; and
 - 2. Have a minimum 20-foot paved surface and a sidewalk five (5) feet in width of such a design that prevents parking on the sidewalk; and
 - 3. Accessible at all times for emergency and public service vehicle use; and
 - 4. Will not result in the land-locking of present or future parcels not obstruct public street circulation; and
 - Covenants have been approved, recorded, and verified with the city that provide for maintenance of the private streets and associated parking areas by the owner or homeowners association or other legal entity.
- B. Acceptance as Public Street. Acceptance of private streets as public streets will be considered only if provision is made for the street(s) to meet all applicable public street standards, including right-ofway widths.

2B.07 Street Frontage Improvements

A. All commercial and residential (including multi-family) development, plats, and short plats will install street frontage improvements at the time of construction as required by the Public Works Department. Such improvements may include curb and gutter; sidewalk; street storm drainage; street lighting system; traffic signal modification, relocation or installation; utility relocation; landscaping

and irrigation; and street widening per these Standards. Plans will be prepared and signed by a licensed civil engineer registered in the State of Washington.

- B. All frontage improvements will be made across full frontage of property and on all sides that may border a city right-of-way.
- C. Exceptions. See Chapter 1, Section 1.07 "Exceptions".

2B.08 Cul-de-sac

Streets designed to have one end permanently closed will be no longer than 400 feet. At the closed end, there will be a widened "bulb" having a minimum paved traveled radius as shown in Table 1, Minimum Street Standards.

2B.10 Medians

A median will be in addition to, not part of the specified roadway width except on a road classed as a Boulevard. Medians will be designed so as not to limit turning radius or sight distance at intersections. Landscaping and irrigation will be installed when directed by the Director of Public Works.

2B.11 Intersections

- A. Traffic control will be as specified in the most recent edition of the MUTCD or as modified by the Director of Public Works as a result of appropriate traffic engineering studies.
- B. Street intersections will be laid out to intersect as nearly as possible at right angles. Sharp angled intersections will be avoided. For reasons of traffic safety, a "T" intersection (three-legged) is preferable to the crossroad (four-legged) intersection for local access streets. For safe design, the following types of intersections features should be avoided:
 - 1. Intersections with more than four intersecting streets
 - 2. "Y" type intersections where streets meet at acute angles
 - 3. Intersections adjacent to bridges and other sight obstructions
 - 4. Offset intersections that are not conducive to side traffic flow

In no case will the angle of the intersection be less than 60 degrees nor greater that 120 degrees. The preferred angle is 90 degrees.

C. Spacing between adjacent intersecting streets, whether crossing or "T", should be as follows:

When the highest classification involved is:	Minimum centerline offset should be:		
Major Arterial	350 Feet		
Minor Arterial	300 Feet		
Commercial Collector	200 Feet		
Neighborhood Collector	200 Feet		
Local Access	150 Feet		

When different classes of streets intersect, the higher standard will apply on curb radii. Deviations may be allowed at the discretion of the Director of Public Works.

D. On sloping approaches at an intersection, landings will be provided with a grade not to exceed a one-foot difference in elevation for a distance of 300 feet approaching any arterial, or 20 feet approaching

- 1. Provide paved walkways with a hard all-weather surface linking various sections of subdivisions and developments to peripheral streets with bus stops.
- 2. Provide access ramps and other facilities consistent with barrier-free design standards along walkways leading to bus stops.
- Separate roads and parking areas from pedestrian pathways by grade separations, landscaping, and other devises. A minimum four (4) to six (6) foot planting strop will be provided to buffer sidewalks or walkways from streets and parking areas around bus stops and shelters.
- 4. Provide pedestrian-friendly features such as lighting, signs, and trash receptacles as warranted by anticipated use.
- New development street systems should be designed to minimize pedestrian travel to bus stops.

2F.07 Mailboxes

During construction, existing mailboxes will be accessible for the delivery of mail or, if necessary, moved to a temporary location. Temporary relocations will be coordinated with the U.S. Postal Service. The mailboxes will be reinstalled at the original location or, if construction has made it impossible, to a location as outlined below and approved by the U.S. Postal Service. Kiosk for 3 units or more.

Location:

- 1. Bottom or base of box will be 36 to 42 inches above the road surface.
- 2. Front of mailbox will be 18 inches behind vertical curb face or outside edge of shoulder.
- 3. New developments. Clustered mailboxes are required (contact the U.S. Postal Service for details). Refer to Standard Drawings 2-18.
- 4. Mailboxes will be set on posts strong enough to give firm support, not to exceed 4 x 4 inches wood or one 1-1/2-inch diameter pipe, or a material and design with comparable breakaway characteristics.

2F.08 Guard Rails

For purposes of design and location, all guardrails along roadways will conform to the criteria of the Department of Transportation Design Manual, as may be amended or revised.

2F.09 Retaining Walls

A. **General.** Rock walls may be used for erosion protection of cut or fill embankments up to a maximum height of eight (8) feet in stable soil conditions that will result in no significant foundation settlement or outward thrust upon the walls. For heights over six (6) feet or when soil is unstable, structural wall of acceptable design stamped by a licensed structural engineer will be used.

In the absence of such a rock wall design, walls having heights over six)6) feet or walls constructed in conditions where soil is unstable are required to be a pre-engineered structural wall having a design approved by the Public Works Department (or the Community Development Director if outside the right-of-way). Structural walls will be designed by professional engineer, licensed in the State of