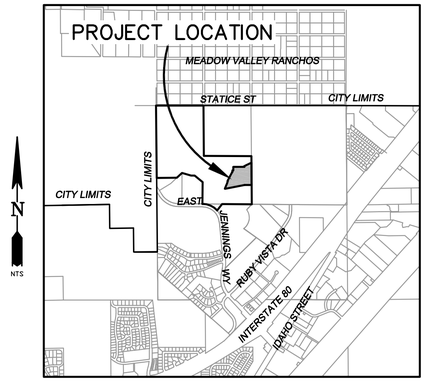
BERGERON VILLAGE PHASE 3

SINGLE FAMILY RESIDENTIAL SUBDIVISION

SITE IMPROVEMENT CIVIL CONSTRUCTION PLANS

LEGEND

EXISTING SANITARY SEWER MANHOLE	EXISTING WATER VALVE
EXISTING SANITARY SEWER LINE — 8" SS	PROPOSED WATER SERVICE & METER — WS — WM
PROPOSED SANITARY SEWER MANHOLE	PROPOSED STREET MONUMENT
PROPOSED SANITARY SEWER LINE — 8" SS	CALCULATED POINT NOTHING SET
PROPOSED SANITARY LATERAL — SS	DETAIL REFERENCE NUMBER FOR DETAILS ON SHEETS C12 - C15 — K / C12
EXISTING STORM DRAIN MANHOLE	PROPOSED STREET LIGHT
EXISTING STORM DRAIN — 24" SD	PROPOSED PAVEMENT
PROPOSED STORM DRAIN CURB INLET	EXISTING GROUND CONTOUR — 5280
PROPOSED STORM DRAIN — 18" SD	FINISH GRADE CONTOUR — 5280
EXISTING GAS LINE — GAS	SPOT ELEVATION — ELEV / LABEL
EXISTING WATER LINE — W	PERCENT OF SLOPE — 2.00%
EXISTING WATER VALVE	EXISTING DRAINAGE SWALE
EXISTING FIRE HYDRANT	PROPOSED DRAINAGE SWALE
PROPOSED WATER LINE — W	
PROPOSED FIRE HYDRANT	



VICINITY MAP

SHEET INDEX

C1 ..... TITLE SHEET & SITE SPECIFICATIONS
C2 ..... SITE PLAN
C3 ..... GRADING PLAN
C4 ..... GRADING PLAN OFF SITE FILL AREA
C5 ..... WATER PLAN
C6 ..... SANITARY SEWER AND STORM DRAIN PLAN
C7 ..... PLAN AND PROFILE YORK BOULEVARD
C8 ..... PLAN AND PROFILE VERA WAY
C9 ..... PLAN AND PROFILE BERGERON AVENUE
C10 ..... PLAN AND PROFILE OFF SITE SANITARY SEWER STATION 0+00 TO 7+00
C11 ..... PLAN AND PROFILE OFF SITE SANITARY SEWER STATION TO 7+00 TO 15+50
C12 ..... IMPROVEMENT DETAILS
C13 ..... IMPROVEMENT DETAILS
C14 ..... WATER IMPROVEMENT DETAILS
C15 ..... SANITARY SEWER AND STORM DRAIN DETAILS
C16 ..... ALTERNATE FIRE ACCESS

PROJECT INFORMATION

1. ZONING: R1 - SINGLE FAMILY RESIDENTIAL.
2. APN = 001-562-009
3. PARCEL TO BE SUBDIVIDED IS IN LOCATED IN SECTION 2 OF TOWNSHIP 34 NORTH, RANGE 55 EAST M.D.B.& M.
4. LEGAL DESCRIPTION = ADJUSTED PARCEL 3 OF FILE NUMBER 815527 IN THE OFFICE OF THE ELKO COUNTY RECORDER.
5. AREA TOTALS AS FOLLOWS:

   TOTAL PROPERTY = 81.970 ACRES
   25 PROPOSED SINGLE FAMILY LOTS AND 1 REMAINDER LOTS. THE TOTAL AREA OF THE 25 LOTS IS 7.915 ACRES
6. DENSITY IS 3.159 HOMES PER ACRE.
7. ALL STREETS WILL BE OFFERED FOR DEDICATION. TOTAL RIGHT OF WAY AREA OFFERED FOR DEDICATION IS 67,514 SQUARE FEET.
8. SUBDIVISION TO BE SERVED BY THE FOLLOWING UTILITY COMPANIES:

   CITY OF ELKO - WATER, SEWER & STORM DRAIN
   SW GAS - NATURAL GAS
   FRONTIER - COMMUNICATIONS AND TELEPHONE
   NV ENERGY - ELECTRICAL
   ZITO MEDIA - COMMUNICATIONS AND TELEVISION
   OTHER COMMUNICATION PROVIDERS IF IN THE AREA
   ELKO SANITATION - WASTE DISPOSAL
9. THIS PROPERTY IS LOCATED IN ZONE X (AREA OF MINIMAL FLOOD HAZARD) PER FEMA FIRM MAP 32007C5626E EFFECTIVE 5-23-23 AND 32007C5607E EFFECTIVE 9-4-13
10. THE ESTIMATED SANITARY SEWER CONTRIBUTION IS 350 GPD/LOT. 25 LOTS x 350 GPD/LOT = 8,750 GPD.
11. THE ESTIMATED WATER DEMAND IS 1.12 AC-FT/YEAR/LOT. 25 LOTS x 1.12 AC-FT/YEAR/LOT = 28.00 AC-FT/YEAR.
12. ALL STREET DIMENSIONS ARE TO TOP BACK OF CURB.
13. INTERSECTION OF STREET RIGHT OF WAY LINES HAVE A 15' RADIUS.
14. CURB RETURN RADIUS SHALL BE 20 FOOT RADIUS MEASURE FROM TOP BACK OF CURB WITH ACCESSIBLE CURB RAMPS.
15. THE PEDESTRIAN PATHS BE OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION.
16. EARTHWORK
    TOTAL CUT = 59,438 BANK CUBIC YARDS
    TOTAL FILL = 44,635 BANK CUBIC YARDS
17. NO SLOPES GREATER THAN 2:1. SLOPES AT 3:1 OR STEEPER WILL BE STABILIZED WITH VEGETATION OR RIP RAP.
18. ALL GRADE BREAKS EXCEEDING 2% DIFFERENCE WILL HAVE A VERTICAL CURVE WITH AN ACCEPTABLE K VALUE.
19. DEED RESTRICTIONS PER FILE NOs 799110 AND 805843.
20. NO ADDRESSES ASSIGNED TO THE PARCELS AT THIS TIME.
21. IN ADDITION TO THE EASEMENTS SHOWN A 7.5' WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT IS PROPOSED ALONG ALL STREET FRONT LOT LINES AND A 5.0' WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT IS PROPOSED ALONG ALL SIDE AND REAR LOT LINES.
22. BASIS OF BEARING AND ELEVATION IS ELKO GRID.
23. THERE ARE NO CITY OF ELKO WATER WELLS IN THIS AREA. THERE ARE PRIVATE DOMESTIC WELL LOCATED IN THE COUNTY SUBDIVISION TO THE NORTH.

PROJECT SPECIFICATIONS:

1. **PROJECT STANDARD SPECIFICATIONS.** ALL WATER SYSTEM WORK SHALL BE EXECUTED AND COMPLETED IN ACCORDANCE WITH THE ***"STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION" AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AS THEY EXISTED JULY 1, 2022.*** ALL OTHER WORK RELATED TO THESE CIVIL IMPROVEMENTS SHALL BE EXECUTED AND COMPLETED IN ACCORDANCE WITH THE ***"STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION",*** SPONSORED AND DISTRIBUTED BY THE REGIONAL TRANSPORTATION COMMISSION OF WASHOE COUNTY AND ADOPTED BY THE CITY OF ELKO, NEVADA FOR PUBLIC WORKS CONSTRUCTION. ALL CIVIL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS UNLESS MODIFIED WITHIN THE WRITTEN CONTRACT WITH THE CONTRACTOR. THESE SPECIFICATIONS SHALL BE HEREAFTER REFEREED TO AS THE PROJECT'S***STANDARD SPECIFICATIONS"***. CONSTRUCTION DETAILS SHALL COMPLY WITH THE CONSTRUCTION DETAILS SHOWN IN THESE PLANS. CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH THE ***STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION***, AS ADOPTED AND DISTRIBUTED BY THE CITY OF ELKO.
2. **CLEARING & GRUBBING AND REMOVAL OF MATERIALS.** CLEARING & GRUBBING SHALL CONSIST OF REMOVING ALL BRUSH, GRASS, TOPSOIL MATERIALS AND OTHER NATURAL OR OBJECTIONABLE MATERIAL FROM THE CONSTRUCTION LIMITS PRIOR SUBGRADE PREPARATION. CLEARING & GRUBBING SHALL BE PERFORMED IN ACCORDANCE WITH **SECTION 300 SITE PREPARATION** OF THE REFERENCED ***STANDARD SPECIFICATIONS.***
3. **STORMWATER AND EROSION CONTROL.** THE CONTRACTOR SHALL MAINTAIN AN EROSION CONTROL PROGRAM ON SITE AT ALL TIMES THAT MEETS, OR EXCEEDS, THE CITY OF ELKO AND THE STATE OF NEVADA REQUIREMENTS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE PLACEMENT OF FIBER ROLLS AT THE DOWN STREAM LOCATIONS OF THE JOBSITE AND VEHICLE MUD TRACKOUT PREVENTION MEASURES AT INGRESS AND EGRESS LOCATIONS ON THE JOB SITE. THE CONTRACTOR SHALL MAINTAIN AND ON GOING PROCESS FOR REMOVAL OF SPILLAGE OF EXCAVATED MATERIAL OR TRACK OUT ON ALL PAVED STREETS. THE CONTRACTOR SHALL DESIGNATE A LOCATION ON SITE TO CONSTRUCT A CONCRETE WASHOUT PIT FOR READY-MIX CONCRETE CLEANUP. AT THE COMPLETION OF WORK THE CONCRETE CLEANUP PIT SHALL BE REMOVED FROM THE SITE. A CLEAN JOBSITE SHALL BE MAINTAINED BY THE CONTRACTOR. A STORM WATER DISCHARGE PERMIT, FROM THE STATE OF NEVADA AND CITY OF ELKO, IS REQUIRED ON ALL CONSTRUCTION WORK SITES THAT EXCEED 1.0 ACRES IN SIZE. THE WORK SITE FOR THIS PROJECT IS 10 ACRES.
4. **DUST CONTROL PROGRAM.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A DUST CONTROL PROGRAM ON SITE AT TIMES TO INCLUDE WATERING OF OPEN AREAS. THE PROGRAM SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY AND CITY CODES. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO ENSURE THAT AIR-BORN DUST DOES NOT LEAVE THE JOBSITE. ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF A DUST PALLIATIVE. ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 90 DAYS SHALL BE HYDRO-SEEDED WITH AN APPROVED SEED MIX AND TACKIFIER AND SHALL BE IRRIGATED UNTIL FIRMLY ESTABLISHED AS APPROVED BY THE CITY OF ELKO.
5. **UNDERGROUND UTILITIES.** ALL UTILITY TRENCHES SHALL CONFORM TO THE CITY OF ELKO AND UTILITY COMPANY SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UNDERGROUND UTILITIES AT ALL TIMES DURING CONSTRUCTION. THE LOCATIONS OF UNDERSGROUND UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE APPROXIMATE AND BASED ON EXISTING RECORDS AND FIELD SURVEYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL CALL **811 USA NORTH** FOR UTILITY FIELD LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION ON SITE. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FOLLOWING UTILITY COMPANIES:

ELECTRIC POWER	NV ENERGY
NATURAL GAS	SOUTHWEST GAS CORPORATION
TELEPHONE	FRONTIER
FIBER OPTIC COMMUNICATION LINES	AT&T, US SPRINT, FRONTIER TELEPHONE AND OTHER FIBER OPERATORS
CABLE TV	ZITO MEDIA

6. **REMOVAL OF EXISTING IMPROVEMENTS.** REMOVAL OF BITUMINOUS PAVEMENT, CONCRETE SIDEWALK, AND CURB & GUTTER SHALL BE IN ACCORDANCE WITH **SECTION 300 SITE PREPARATION** AND **SECTION 301 PROTECTION AND RESTORATION** OF THE PROJECT ***STANDARD SPECIFICATIONS***. THE CONTRACTOR SHALL SAWCUT ALL PAVEMENT AND CONCRETE AT THE LOCATIONS SHOWN ON THE PROJECT PLANS PRIOR TO REMOVAL.
7. **WATER DISTRIBUTION PIPE MATERIALS**. ALL WATER PIPE INSTALLED SHALL BE IN ACCORDANCE WITH CITY OF ELKO STANDARDS AND SHALL MEET THE REQUIREMENTS OF **SECTION 203.00 PIPE AND RELATED MATERIALS** OF THE REFERENCED PROJECT ***STANDARD SPECIFICATIONS,*** THE LATEST ADOPTED EDITION OF THE **UNIFORM PLUMBING CODE** THE LATEST ADOPTED EDITION OF THE **UNIFORM FIRE CODE**. ALL MATERIALS IN CONTACT WITH POTABLE WATER MUST BE NSF/ANSI 61 CERTIFIED AS LEAD FREE AND COMPATIBLE WITH DRINKING WATER. INSTALLATION OF BURIED WATER PIPE MATERIALS SHALL BE DONE AS SPECIFIED IN **SECTION 305 PIPE SYSTEMS** AND **SECTION 307 FIRE HYDRANTS** OF THE PROJECT ***STANDARD SPECIFICATIONS.*** WATER MAIN PIPE SHALL BE AWWA DR18 C-900 WATER PIPE. WATER SERVICE PIPE SHALL BE AWWA C901 POLYETHYLENE WATER SERVICE PIPE , IRON PIPE SIZE (IPS), WITH A MINIMUM WORKING PRESSURE OF 200-PSI . CONSTRUCTION SHALL COMMENCE UPON APPROVAL OF THE CONSTRUCTION PLANS BY THE CITY OF ELKO AND NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY OR STORM) UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718** AND THE BUREAU OF SAFE DRINKING WATER (BSDW) GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION, EDITION 1.0, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER OR BSDW. WATER LINES SHALL BE INSTALLED A MINIMUM OF 42" MEASURE FROM FINISH GRADE TO TOP OF THE PIPE. THE CITY OF ELKO UTILITIES DEPARTMENT SHALL BE CONTACTED TO PERFORM ALL TAPS ONTO CITY OF ELKO UTILITIES. THE CITY OF ELKO SHALL BE CONTACTED FOR AUTHORIZATION TO PLACE ANY NEW WATER SYSTEMS, EXTENSION, REPLACEMENTS IN EXISTING SYSTEMS AND VALVED SECTIONS INTO SERVICE FOR TESTING OR FINAL ACCEPTANCE. BEFORE BEING CERTIFIED BY AN ENGINEER ACCEPTED BY THE CITY OF ELKO, ANY NEW WATER SYSTEMS, EXTENSIONS, REPLACEMENTS IN EXISTING SYSTEMS AND VALVED SECTIONS SHALL BE DISINFECTED IN ACCORDANCE WITH **AWWA C-651 (DISINFECTING WATER MAINS)** AND BE PRESSURE TESTED IN ACCORDANCE WITH **NAC 445A 6715.7 (A) AND (B) AND AWWA C-605**. THE DISPOSAL OF HIGHLY CHLORINATED WATER MUST BE COORDINATED WITH NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WATER POLLUTION CONTROL.
8. **SANITARY SEWER AND STORM DRAIN PIPE**. ALL SANITARY SEWER AND STORM DRAIN PIPE MATERIALS INSTALLED SHALL BE IN ACCORDANCE WITH CITY OF ELKO STANDARDS AND SHALL MEET THE REQUIREMENTS OF **SECTION 203.00 PIPE AND RELATED MATERIALS** OF THE REFERENCED PROJECT ***STANDARD SPECIFICATIONS*** AS ADOPTED FOR PUBLIC WORKS CONSTRUCTION AND THE LATEST ADOPTED EDITION OF THE **UNIFORM PLUMBING COD**E. SANITARY SEWER SHALL BE SDR-35 GRAVITY SEWER PIPE INSTALLED IN LOCATIONS SHOWN ON THE PLAN. STORM DRAIN SHALL BE ADS N-12 PIPE WITH WATER TIGHT JOINTS INSTALLED IN THE LOCATION SHOWN ON THE PLAN. INSTALLATION OF BURIED SANITARY SEWER AND STORM DRAIN MATERIALS SHALL BE DONE AS SPECIFIED IN **SECTION 306 CULVERTS, AND SANITARY SEWER AND STORM DRAIN SYSTEMS** OF THE PROJECT ***STANDARD SPECIFICATIONS.*** CONSTRUCTION SHALL COMMENCE UPON APPROVAL OF THE CONSTRUCTION PLANS BY THE CITY OF ELKO AND NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SANITARY UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718**.
9. **SUBGRADE PREPARATION, EXCAVATION AND FILL.** SUBGRADE SOILS SHALL BE PROPERLY PROCESSED BY MOISTURIZING AND COMPACTING THE SUBGRADE SOIL TO A MINIMUM OF 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHOD ASTM D 1557. FILL SOIL SHALL ALSO BE PROPERLY MOISTURIZED AND COMPACTED TO A MINIMUM OF 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHOD ASTM D 1557. SUBGRADE UNDER BITUMINOUS PAVEMENT SHALL BE PROPERLY MOISTURIZED AND COMPACTED (6-INCH DEPTH) TO A MINIMUM OF 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHOD ASTM D 1557. EARTHWORK SHALL COMPLY WITH **SECTION 302 SUBGRADE PREPARATION** AND **SECTION 303 EXCAVATION, SECTION 304 FILL AND BACKFILL** OF THE PROJECT ***STANDARD SPECIFICATIONS.***
10. **AGGREGATE BASE MATERIAL.** AGGREGATE BASE MATERIAL SHALL BE OF THE CLASSIFICATION SHOWN ON THE PLANS AND SHALL BE PLACED TO THE COMPACTED THICKNESS SHOWN . AGGREGATE BASE SHALL BE MOISTURIZED, SPREAD, AND COMPACTED IN MAXIMUM LIFT THICKNESS OF 8-INCHES. MINIMUM COMPACTION REQUIREMENTS ARE 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHOD ASTM D 1557. ALL AGGREGATE BASE MATERIAL, INCLUDING TYPE 2, CLASS B, AGGREGATE BASE, SHALL MEET THE MATERIAL REQUIREMENTS SPECIFIED IN **SECTION 200 AGGREGATES FOR BASE COURSES** OF THE ***STANDARD SPECIFICATIONS.*** PLACEMENT OF AGGREGATE BASE MATERIAL SHALL BE AS SPECIFIED IN **SECTION 308 UNTREATED BASE COURSES** OF THE PROJECT ***STANDARD SPECIFICATIONS.***
11. **CONCRETE CURB & GUTTERS, VALLEY GUTTERS, SIDEWALK AND APPROACH SLABS.** AGGREGATES FOR CONCRETE SHALL COMPLY WITH **SECTION 200 AGGREGATES** OF THE PROJECT ***STANDARD SPECIFICATIONS.*** CEMENT AND OTHER ADMIXTURES SHALL COMPLY WITH **SECTION 202 CEMENTITIOUS AND RELATED MATERIALS.** ALL CONCRETE SHALL BE AIR ENTRAINED WITH A MINIMUM STRENGTH OF 4,000-PSI AT 28-DAYS. CONCRETE MIX DESIGNS SHALL BE PROVIDED TO THE ENGINEER AND SHALL BE CURRENT (WITH IN THE LAST 12 MONTHS). MIX DESIGNS SHALL BE AS SPECIFIED IN THE PROJECT ***STANDARD SPECIFICATIONS*** FOR THE TYPE OF WORK. CONCRETE SHALL BE PLACED, FINISHED AND CURED IN ACCORDANCE WITH **SECTION 312 PCC FLATWORK, CURBS, DITCHES AND SLOPE PAVING RETURNS** OF THE PROJECT ***STANDARD SPECIFICATIONS.***
12. **PLANTMIX BITUMINOUS PAVEMENT, PRIME COATS, SEAL COATS, AND ASPHALTIC MATERIALS**. AGGREGATES FOR BITUMINOUS PAVEMENT SHALL BE AS SPECIFIED IN **SECTION 200 AGGREGATES** OF THE PROJECT ***STANDARD SPECIFICATIONS.*** ASPHALT CEMENTS AND BITUMINOUS MATERIALS SHALL MEET THE REQUIREMENTS OF **SECTION 201 ASPHALTS AND ADDITIVES MATERIALS** OF THE PROJECT ***STANDARD SPECIFICATIONS.*** THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MIX DESIGN FOR APPROVAL PRIOR TO PLACEMENT OF BITUMINOUS PAVING MATERIALS. PLANTMIX BITUMINOUS PAVEMENT SHALL BE PG 64-22, **TYPE 2 AGGREGATE**, UNLESS OTHERWISE SPECIFIED OR APPROVED. LIQUID ASPHALT AND EMULSIFIED ASPHALT PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH **SECTION 318 PRIME COAT AND TACK COAT** OF THE ***STANDARD SPECIFICATIONS.*** PLANTMIX BITUMINOUS PAVEMENT SHALL BE DELIVERED, PLACED AND COMPACTED WITHIN SPECIFIED TOLERANCES IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN **SECTION 320 HMA PAVEMENT** OF THE PROJECT ***STANDARD SPECIFICATIONS.***
13. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE TO THE FINISH GRADE ELEVATION OF THE MATERIAL COURSES INDICATED ON THE PLAN DRAWINGS. BURIED UTILITY LINE ELEVATIONS SHALL BE NOTED AS INVERT ELEVATION (PIPE FLOWLINE). THE CONTRACTOR SHALL VERIFY UTILITY LINE LOCATIONS AND PROTECT THESE LINES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN ADEQUATE SAFETY PROGRAM DURING ALL CONSTRUCTION WORK ON THE PROJECT SITE. MINIMUM SAFETY STANDARDS TO BE MET ON THE JOB SHALL EXCEED THOSE MINIMUM STANDARDS ESTABLISHED BY THE FEDERAL GOVERNMENT (OSHA), THE STATE OF NEVADA AND THE LOCAL GOVERNING AUTHORITY.
15. THE CONSTRUCTION INSPECTION AND TESTING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF **SECTION 336.00** OF THE PROJECT **STANDARD SPECIFICATIONS**.
16. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, THE CITY OF ELKO AND ALL UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF THE WORK.
17. THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, FLOW LINE, EXISTING CONDITIONS AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALL TO THE ATTENTION OF THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK.
18. THE CONTRACTOR SHALL WORK WITH THE PROJECT ENGINEER TO ENSURE ACCURATE AS-BUILTS ARE GENERATED AND SUBMITTED TO THE CITY OF ELKO BY THE PROJECT ENGINEER.
19. UPON COMPLETION OF WORK THE CONTRACTOR SHALL FINISH GRADE ALL DISTURBED AREAS AND CLEANUP ALL CONSTRUCTION DEBRIS. THE CONDITION OF THE WORK SITE SHALL BE LEFT IN A CLEAN CONDITION FREE OF ALL CONSTRUCTION DEBRIS FOLLOWING CONSTRUCTION.
20. THESE PLANS ARE IN COMPLIANCE WITH NAC 278.440 AND NAC 445A.65505 THROUGH NAC 445A.6731.

ABBREVIATIONS:

AC ..... ASPHALTIC CONCRETE	PI ..... POINT OF INTERSECTION
BVC ..... BEGIN VERTICAL CURVE	PC ..... POINT OF CURVATURE
CL ..... CENTERLINE	PT ..... POINT OF TANGENCY
CONC ..... CONCRETE	PVC ..... POLYVINYL CHLORIDE PIPE
DI ..... DROP INLET	PL ..... PROPERTY LINE
EL ..... ELEVATION	R ..... RADIUS
ELEV ..... ELEVATION	REF ..... REFERENCE
EVC ..... END OF VERTICAL CURVE	RT ..... RIGHT
EX ..... EXISTING	ROW ..... RIGHT OF WAY
EG ..... EXISTING GRADE	SS ..... SANITARY SEWER
FG ..... FINISH GRADE	SSCO ..... SANITARY SEWER CLEANOUT
FH ..... FIRE HYDRANT	SW ..... SIDEWALK
FL ..... FLOW LINE	S ..... SLOPE
G ..... GAS	SHT ..... SHEET
GV ..... GATE VALVE	STA ..... STATION
GB ..... GRADE BREAK	SD ..... STORM DRAIN
HORZ ..... HORIZONTAL	T ..... TELEPHONE
IPS ..... IRON PIPE SIZE	TBC ..... TOP BACK OF CURB
INT ..... INTERSECTION	TC ..... TOP OF CONCRETE
IE ..... INVERT ELEVATION	TYP ..... TYPICAL
LT ..... LEFT	VERT ..... VERTICAL
LF ..... LINEAR FEET	VC ..... VERTICAL CURVE
MH ..... MANHOLE	W ..... WATER

PROJECT CONTACTS

OWNER-DEVELOPER

DGB INVESTMENTS, INC
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PARK CITY, UTAH 84098-5586
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LAND SURVEYOR

HIGH DESERT ENGINEERING, LLC
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CONTACT: BOB THIBAULT P.E., P.L.S.
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CIVIL ENGINEER

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GEOTECHNICAL ENGINEER

SANBELL
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Lana L Carter
Digitally signed by Lana L Carter
DN: cn=Lana L Carter, o=Carter Engineering, LLC, ou, email=lanalcarter@live.com, c=US
Date: 2025.07.10 15:16:25 -07'00'

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — LANA L CARTER — EXP. 12/31/26 — CIVIL — No. 10962

6-17-25

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

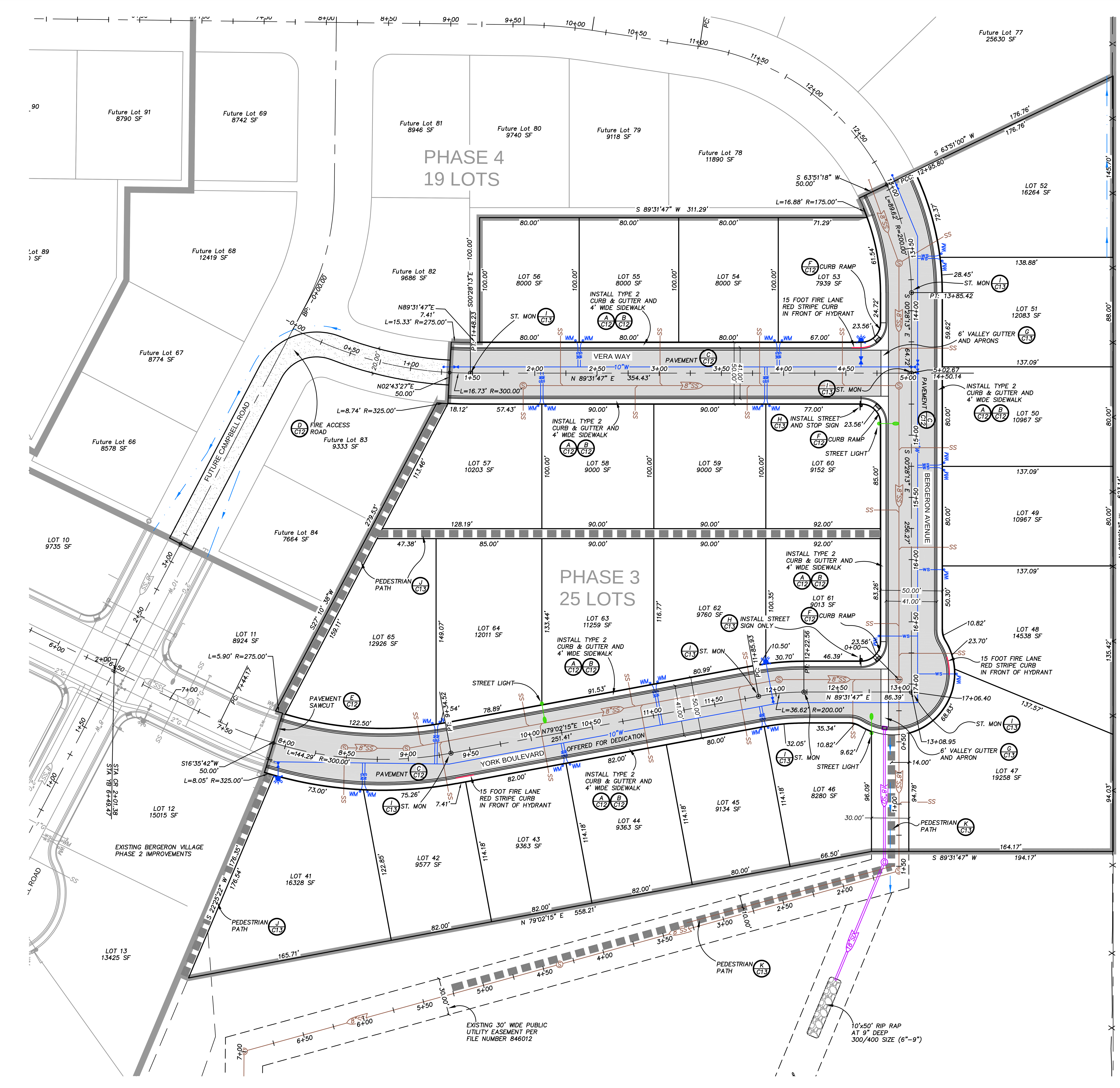
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE PHASE 3
TITLE SHEET & SPECIFICATIONS
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: N/A
VERT: N/A

SHEET C1
OF 16



SITE NOTES:

1. ALL P.C.C. CURB, GUTTER, SIDEWALK, REINFORCED CONCRETE PAD AND CONCRETE RETAINING SHALL BE A MINIMUM OF 6 SACK OF CEMENT PER CUBIC YARD OF CONCRETE (4000 P.S.I.), 4.5% - 7.5% AIR, MAXIMUM SLUMP OF 4" AND WATER/CEMENT RATIO OF 0.45.
2. ALL CONCRETE CURB & GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10' AND SIDEWALK SHALL HAVE WEAKENED PLANE JOINTS EVERY 5'.
3. EXPANSION JOINTS 1/2" WIDE SHALL BE LOCATED IN CURBS & GUTTERS AT EACH SIDE OF STRUCTURES, AT ENDS OF ALL CURB RETURNS, ABUTTING HARDENED IN-PLACE CURB & GUTTER AND EVERY 90'.
4. EXPANSION JOINTS IN SIDEWALKS SHALL BE PLACED AT ALL TANGENT POINTS, CURB RETURNS AND AT EVERY 30 FEET.
5. AGGREGATE BASE UNDER CONCRETE AND PAVEMENT SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2, CLASS B AGGREGATE BASE AND COMPACTED TO A MINIMUM 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557.
6. SUBGRADE SHALL BE COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 90% FOR A MINIMUM DEPTH OF 6" IN ACCORDANCE WITH TEST PROCEDURES SET FORTH IN ASTM D 1557. SUBGRADE UNDER BITUMINOUS PAVEMENT SHALL BE COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 95% FOR A MINIMUM DEPTH OF 6" IN ACCORDANCE WITH TEST PROCEDURES SET FORTH IN ASTM D 1557.
7. ALL PAVEMENT MARKING SHALL MEET STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION, SECTIONS 214 AND 324.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING 811 USA NORTH AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
9. DIMENSIONS ARE TO TOP BACK OF CURB.
10. IN THE DESIGNATED DEMOLITION AREAS THE EXISTING CONCRETE OR PAVEMENT AND AGGREGATE BASE SHALL BE REMOVED TO SUBGRADE FOR THE INSTALLATION OF THE PROPOSED IMPROVEMENTS.
11. ALL DEMOLITION SHALL BE PER SECTION 300 AND 301 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION.
12. DIMENSIONS, STREET MONUMENT PLACEMENT, LINE DISTANCES AND BEARINGS PER FINAL MAP. THOSE SHOWN HERE ARE FOR REFERENCE ONLY.
13. SEE SHEET C12 AND C13 FOR DETAILS ON CURB AND GUTTER, SIDEWALK, PAVEMENT SECTION, GRAVEL SECTION, SAW CUT, CURB RAMP, VALLEY GUTTER WITH APRON, STREET AND STOP SIGN, STREET MONUMENT AND GRAVEL SECTION FOR PEDESTRIAN PATH AND STREET SECTION.
14. THE COMMUNITY MAIL BOX LOCATION WILL BE AT THE SAME LOCATION AS THAT SHOWN ON THE BERGERON VILLAGE PHASE 2 PLANS ON WINDSOR DRIVE APPROXIMATE STATION 6+50, ±150' NORTHEAST OF THE INTERSECTION WITH EAST JENNINGS AVENUE.

REGISTERED PROFESSIONAL ENGINEER · STATE OF NEVADA
LANA L. CARTER
EXP. 12/31/26
CIVIL
No. 10962

6-17-25

40 0 40 80 120 160
SCALE: 1"=40'

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

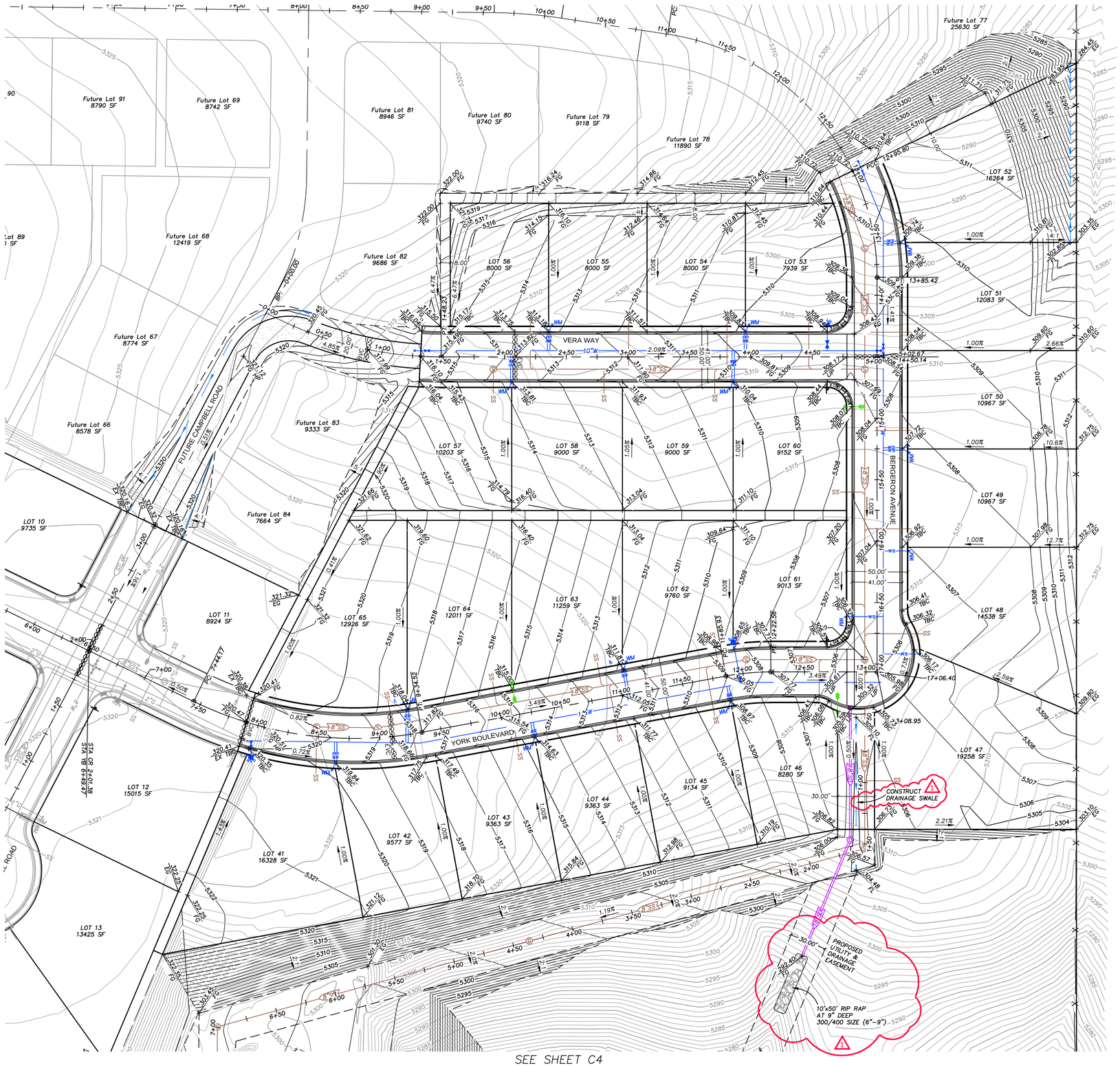
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE PHASE 3 SITE PLAN
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: N/A

SHEET
C2
OF 16

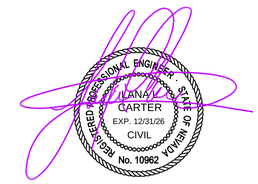


GRADING NOTES

1. THE ESTIMATED EARTHWORK QUANTITIES ARE AS FOLLOWS:

   UNCLASSIFIED EXCAVATION = 59,438 CY CUT
   UNCLASSIFIED EMBANKMENT = 44,635 CY FILL

   THE ABOVE QUANTITIES ARE BANK CUBIC YARDS WITH A 3-INCH GRUB. SHRINK OR SWELL HAS NOT BEEN CONSIDERED.
2. ADD 5000 FEET TO SPOT ELEVATIONS.
3. THE FINAL GRADING OF THE LOTS WILL BE DONE TO ELIMINATE CROSS LOT DRAINAGE.
4. SLOPES 3:1 OR GREATER REQUIRE SLOPE STABILIZATION.
5. SLOPES SHALL NOT EXCEED 2:1.
6. THE EXISTING GROUND TOPOGRAPHY SHOWN ON THIS PLAN IS FROM A SURVEY PROVIDED BY HIGH DESERT ENGINEERING ON 3-17-22.



6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

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BERGERON VILLAGE PHASE 3 GRADING PLAN

ELKO, NEVADA

DESIGN BY:	LLC
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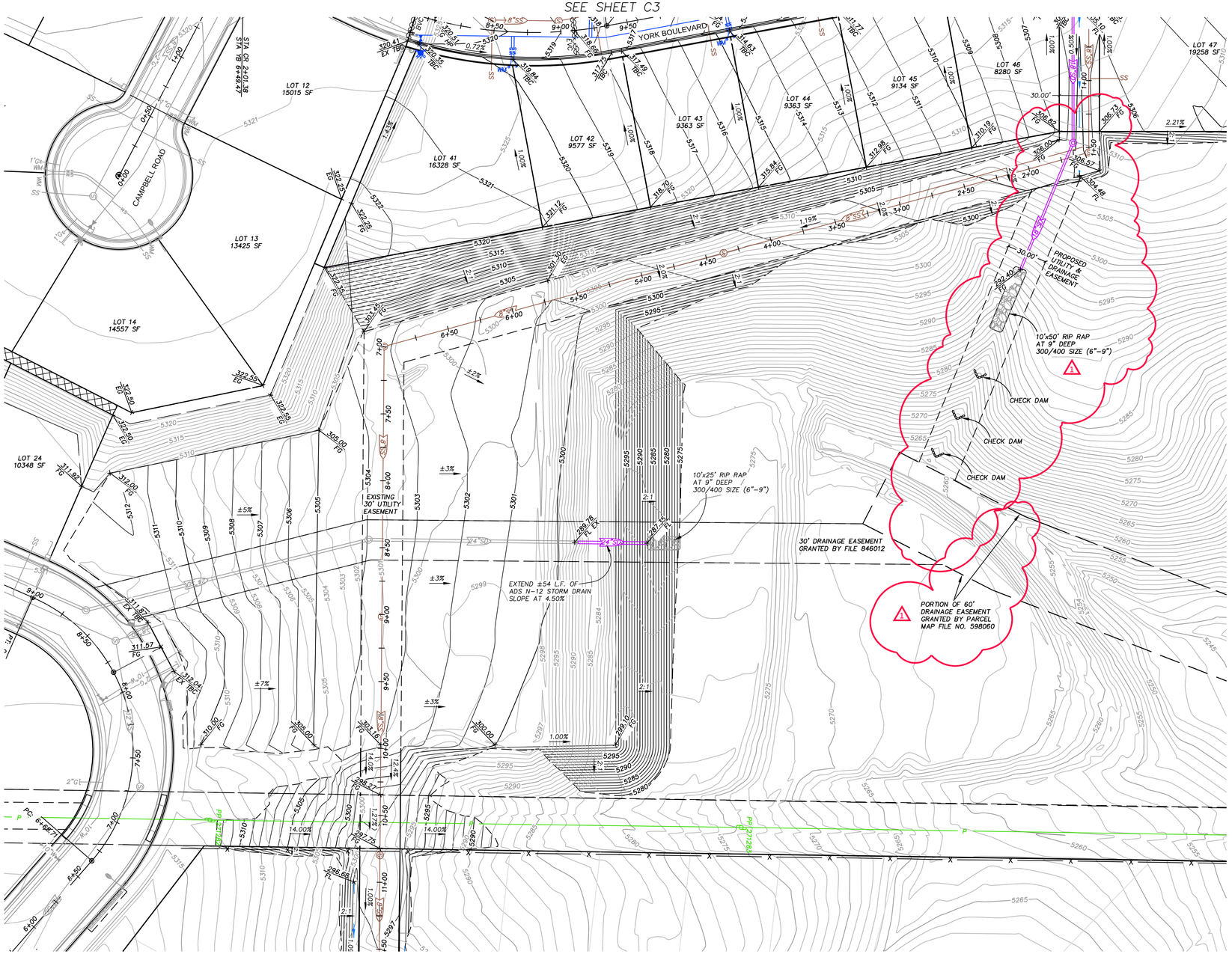
SHEET C3

OF 16



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3. THE FINAL GRADING OF THE LOTS WILL BE DONE TO ELIMINATE CROSS LOT DRAINAGE.
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5. SLOPES SHALL NOT EXCEED 2:1.
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6-17-25

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SCALE: 1"=40'

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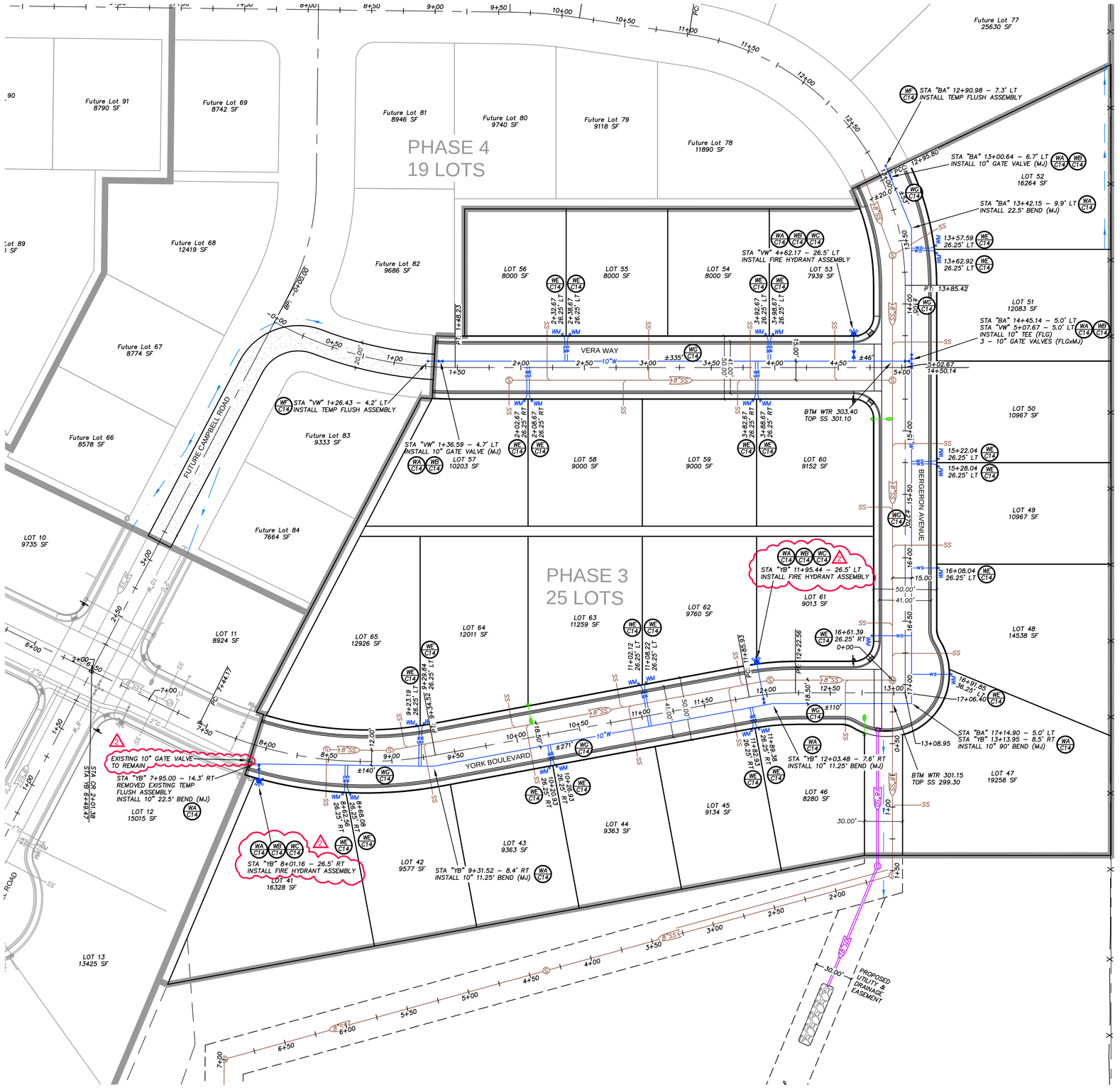
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE PHASE 3
GRADING PLAN OFF SITE FILL AREA
ELKO, NEVADA

DESIGN BY:	LLC	DATE:	6-17-25
DRAWN BY:	LLC	JOB NO:	17-2020
CHECKED BY:	LLC	DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: N/A

SHEET
C4
OF 16



WATER NOTES:

1. ALL WATER MAINS SHALL BE AWWA C900, DR 18 WATER PIPE.
2. ALL WATER SERVICE LINES SHALL BE AWWA C-901, 1" IPS 200 PSI POLYETHYLENE.
3. ALL WATER LINE FITTINGS SHALL BE DUCTILE IRON AWWA C-110 AND AWWA C-153.
4. ALL WATER LINES SHALL BE PLACED WITH 42" OF MINIMUM COVER.
5. SEE SHEET C14 FOR DETAIL ON THRUST BLOCKS, VALVE, FIRE HYDRANT, WATER METER, WATER SERVICE CONNECTION, TEMPORARY FLUSH ASSEMBLY AND TRENCH DETAILS.
6. ALL METERS SHALL BE 1 INCH.
7. ALL NEW FIRE HYDRANTS WILL BE EQUIPPED WITH STORZ FITTINGS.
8. A MINIMUM OF 18" INCHES SEPARATION WILL BE ALLOWED BETWEEN WATER TAPS AS REQUIRED BY THE CITY OF ELKO UTILITIES DEPARTMENT.
9. A MINIMUM OF 2 FOOT SEPARATION WILL BE ALLOWED BETWEEN WATER TAPS AND HYDRANT TAPS AS REQUIRED BY THE CITY OF ELKO UTILITIES DEPARTMENT.
10. WATER AND SEWER LATERALS WILL BE PLACED IN SEPARATE TRENCHES AND LOCATED AT LEAST 48" APART MEASURE FROM OUTSIDE DIAMETERS PER NAC 445A.6716.
11. HOT TAPS SHALL BE PERFORMED BY THE CITY OF ELKO UTILITIES DEPARTMENT. THE CONTRACTOR SHALL SUPPLY TRENCH AND MATERIALS FOR THE HOT TAP. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS WORK WITH THE CITY OF ELKO.
12. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY OR STORM) UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718** AND THE BUREAU OF SAFE DRINKING WATER (BSDW) GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION, EDITION 1.0, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER OR BSDW.
13. ANY OPENINGS IN UNFINISHED PIPING AND APPURTENANCES MUST BE SEALED WATERTIGHT AT THE END OF EACH WORKING DAY.
14. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS.
15. THE MAXIMUM JOINT DEFLECTION SHALL NOT EXCEED THE MANUFACTURES SPECIFICATIONS.
16. ALL MATERIALS IN CONTACT WITH POTABLE WATER MUST BE NSF/ANSI 61 CERTIFIED AS LEAD FREE AND COMPATIBLE WITH DRINKING WATER.
17. BEFORE BEING CERTIFIED BY AN ENGINEER ACCEPTED BY THE CITY OF ELKO, ANY NEW WATER SYSTEMS, EXTENSIONS, REPLACEMENTS IN EXISTING SYSTEMS AND VALVED SECTIONS SHALL BE DISINFECTED IN ACCORDANCE WITH **AWWA C-651 (DISINFECTING WATER MAINS)** AND BE PRESSURE TESTED IN ACCORDANCE WITH **NAC 445A 67145.7 (A) AND (B) AND AWWA C-605**. THE DISPOSAL OF HIGHLY CHLORINATED WATER MUST BE COORDINATED WITH NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WATER POLLUTION CONTROL. ADDITIONALLY, A WATER MAIN MUST NOT BE PLACED INTO SERVICE, AFTER ITS INITIAL CONSTRUCTION, UNTIL AN ANALYSIS OF THE WATER MAIN WHICH INDICATES THAT IT MEETS PRIMARY STANDARDS FOR CHLOROFORM BACTERIA HAS BEEN OBTAINED AND REPORTED TO THE BUREAU OF SAFE DRINKING WATER.

SPECIAL CROSSING NOTES:

1. SPECIAL CONSTRUCTION FOR STORM DRAIN LATERAL CROSSING WATER MAIN SHALL BE PER **NAC 445A.67165 SEPARATION OF LINES - SEWER MAIN CROSSING WATER MAIN** AND **NDEP BUREAU OF SAFE DRINKING WATER PUBLICATION "GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION" EDITION 1.0, UPDATED JUNE 2018, BULLETIN 3.0 VERTICAL CROSSING CONFLICT - WATER AND SEWER MITIGATION IN AREA OF SPECIAL CONSTRUCTION.**
2. THE PIPE JOINTS FOR WATER AND STORM DRAIN SHALL BE EQUAL DISTANCE FROM THE POINT OF CROSSING.
3. THE WATER PIPE AND SEWER OR STORM DRAIN PIPE SHALL BE A MINIMUM OF 6" APART MEASURED FROM THE OUTSIDE OF THE PIPES.
4. THE WATER LINE SHALL HAVE RESTRAINT JOINTS ON BOTH SIDES OF THE CROSSING AND ON ANY BENDS REQUIRED FOR THE CROSSING.

REV	DATE	DESCRIPTION
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2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

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Civil Engineering
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BERGERON VILLAGE
PHASE 3
WATER PLAN
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

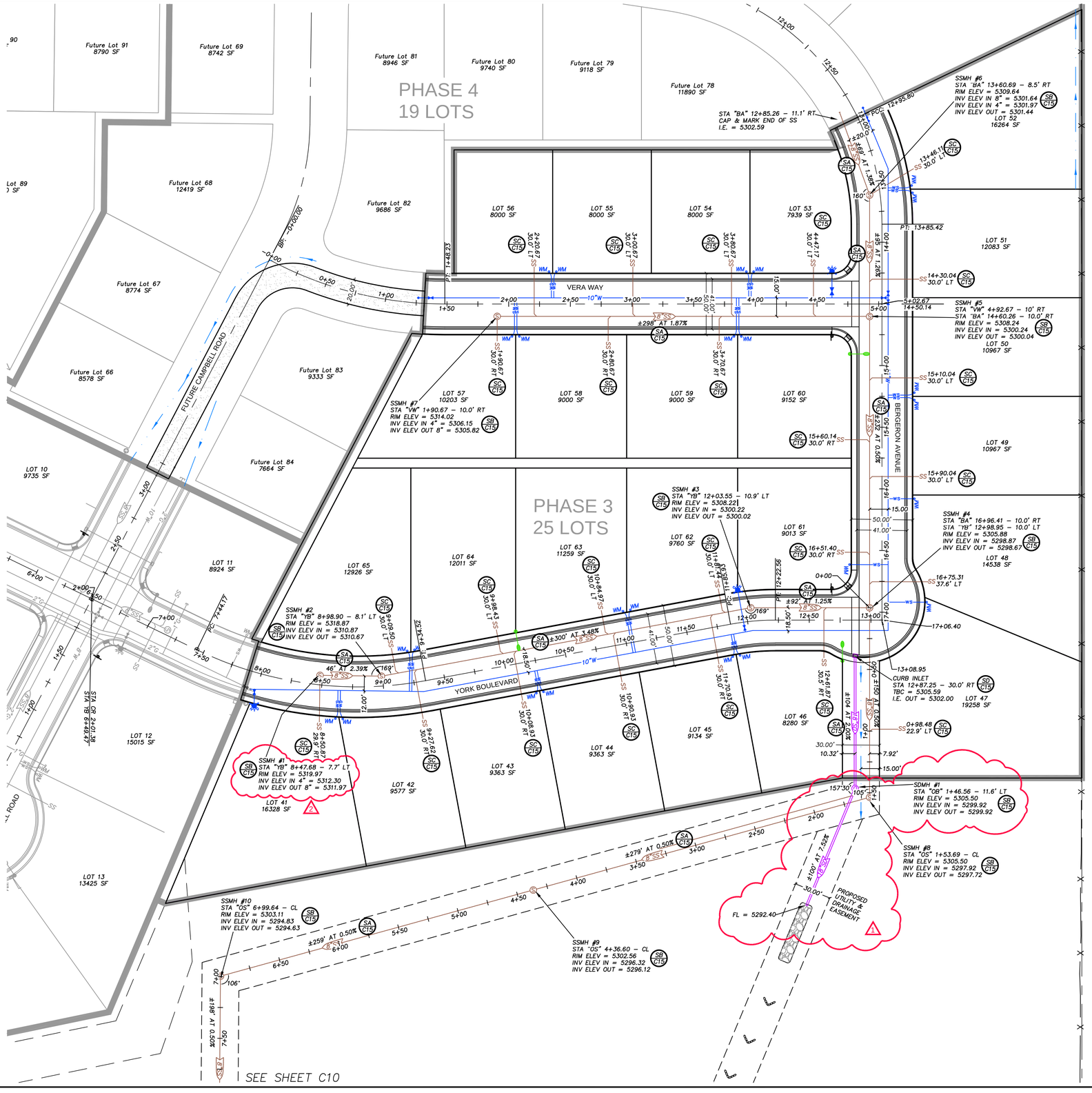
SCALE
HORIZ: 1"=40'
VERT: N/A

SHEET
C5
OF 16

REGISTERED PROFESSIONAL ENGINEER
LANA M. CARTER
EXP. 12/31/26
CIVIL
No. 10962
STATE OF NEVADA

6-17-25

40 0 40 80 120 160
SCALE: 1"=40'



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4. THE WATER LINE SHALL HAVE RESTRAINT JOINTS ON BOTH SIDES OF THE CROSSING AND ON ANY BENDS REQUIRED FOR THE CROSSING.

STORM DRAIN NOTES:

1. ALL STORM DRAIN LINES SHALL BE ADS N-12 WT OR APPROVED EQUAL.
2. ALL CURB INLETS SHALL BE TYPE R-4 .
3. SEE SHEET C15 FOR DETAILS FOR TRENCH AND CURB BASIN DETAIL.
4. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY OR STORM) UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718** AND THE BUREAU OF SAFE DRINKING WATER (BSDW) GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION, EDITION 1.0, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER OR BSDW.

SANITARY SEWER NOTES:

1. ALL SEWER LINES SHALL BE SDR-35 P.V.C.
2. SEE SHEET C15 FOR DETAILS OF SANITARY SEWER MANHOLE, LATERAL CONNECTION AND TRENCH DETAIL FOR SEWER PIPE.
3. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON THE TOP OF THE PIPE.
4. SEWER LATERALS TO BE 4" Ø AND SHALL HAVE A MINIMUM SLOPE OF 2% FOR 100-FEET.
5. EXPOSE EXISTING SANITARY SEWER LINE AT CONNECTION POINT AND CALL PROJECT ENGINEER FOR ELEVATION VERIFICATION PRIOR TO THE INSTALLATION OF ANY SANITARY SEWER.
6. THESE PLANS ARE IN COMPLIANCE WITH NAC 278.440 AND NAC 445A.65505 THOUGH NAC 445A.6731.

6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

REV	DATE	DESCRIPTION
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Carter Engineering, LLC
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P. O. Box 794
Elko, Nevada 89803
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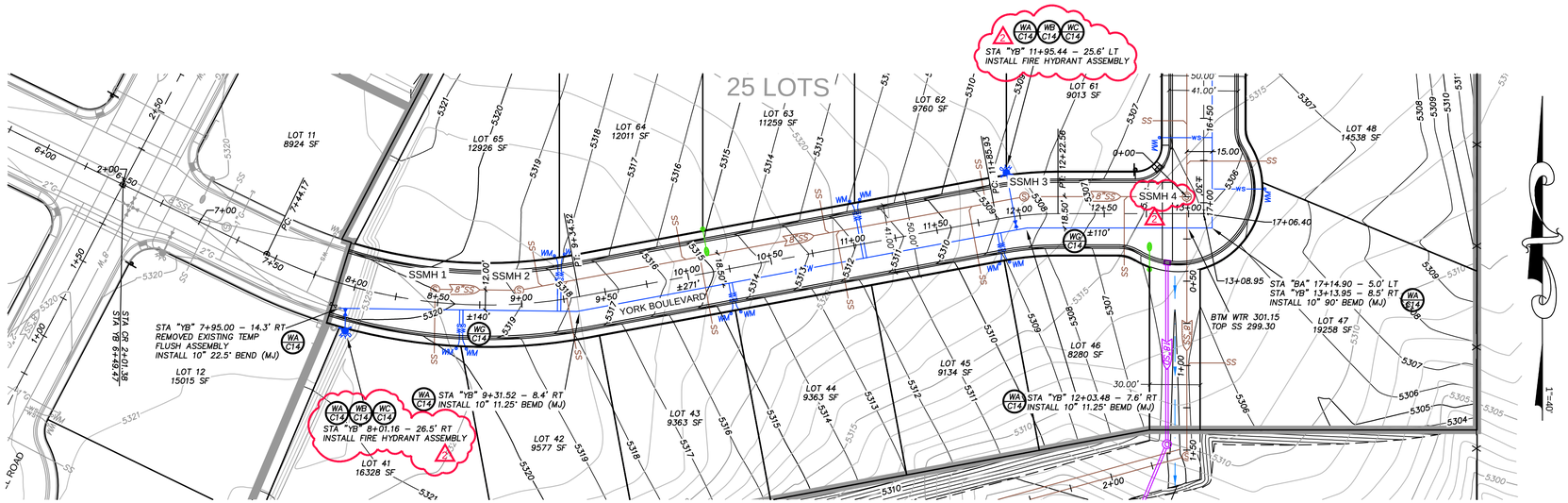
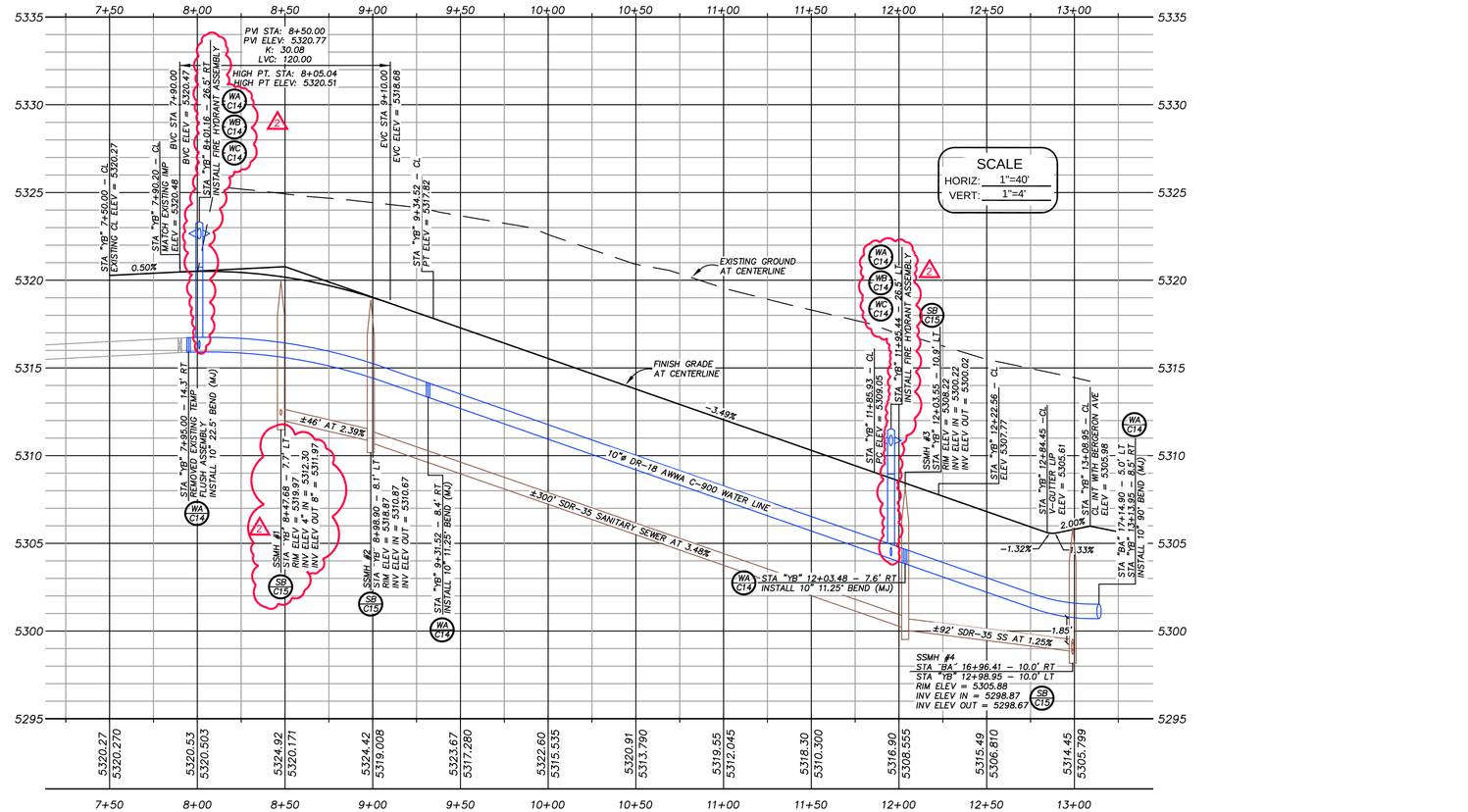
BERGERON VILLAGE PHASE 3
SANITARY SEWER & STORM DRAIN PLAN
ELKO, NEVADA

DESIGN BY:	LLC	DATE:	6-17-25
DRAWN BY:	LLC	JOB NO:	17-2020
CHECKED BY:	LLC	DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: N/A

SHEET
C6
OF 16





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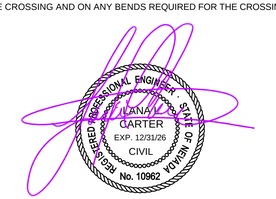

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40 0 40 80 120 160

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BERGERON VILLAGE - PHASE 3
PLAN AND PROFILE
YORK BOULEVARD
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
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SCALE
HORIZ: 1"=40'
VERT: 1"=4'

SHEET
C7
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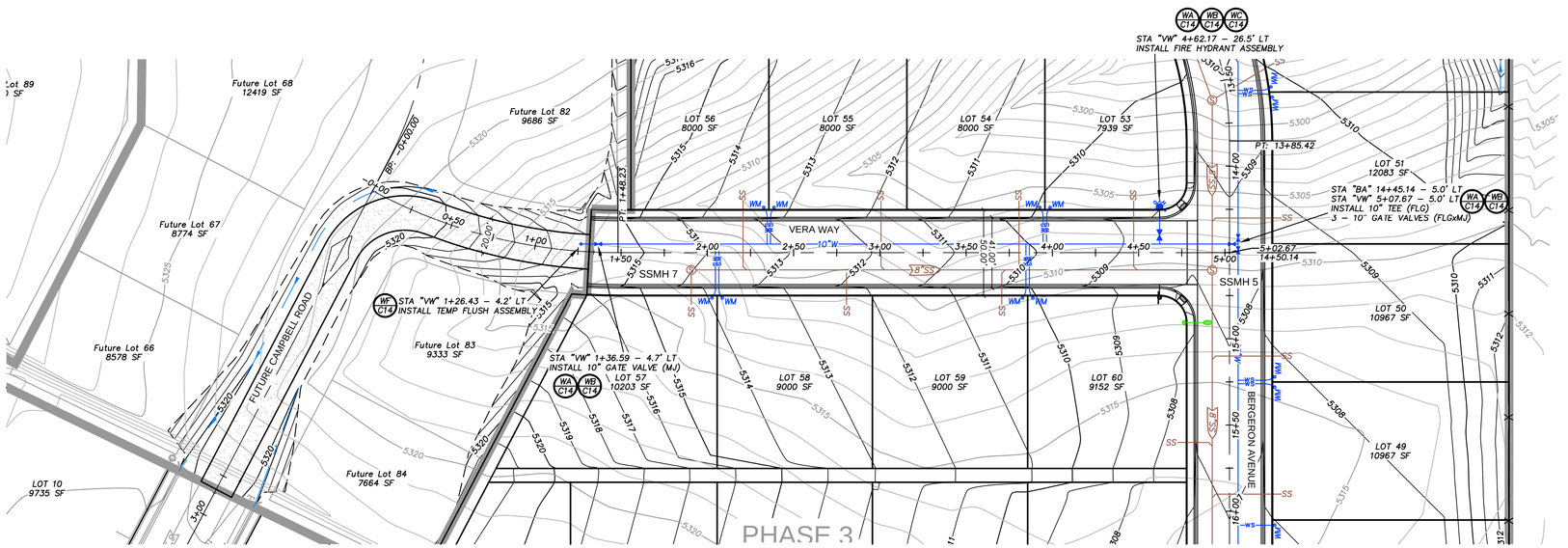

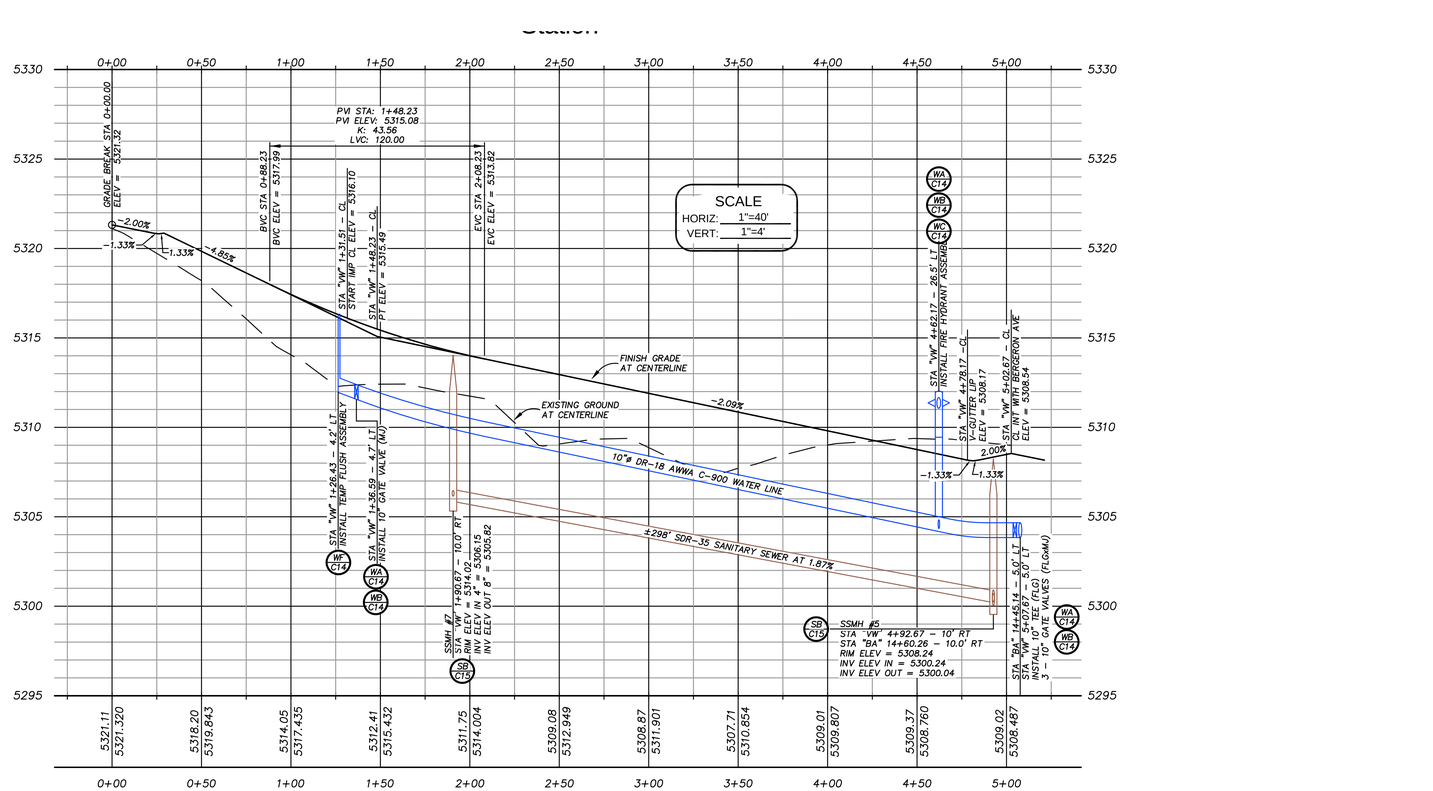

WATER NOTES:

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SANITARY SEWER NOTES:

1. ALL SEWER LINES SHALL BE SDR-35 P.V.C.
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6. THESE PLANS ARE IN COMPLIANCE WITH NAC 278.440 AND NAC 445A.65505 THOUGH NAC 445A.6731.

SPECIAL CROSSING NOTES:

1. SPECIAL CONSTRUCTION FOR STORM DRAIN LATERAL CROSSING WATER MAIN SHALL BE PER **NAC 445A.67165 SEPARATION OF LINES - SEWER MAIN CROSSING WATER MAIN** AND **NDEP BUREAU OF SAFE DRINKING WATER PUBLICATION "GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION" EDITION 1.0, UPDATED JUNE 2018, BULLETIN 3.0 VERTICAL CROSSING CONFLICT - WATER AND SEWER MITIGATION IN AREA OF SPECIAL CONSTRUCTION.**
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3. THE WATER PIPE AND SEWER OR STORM DRAIN PIPE SHALL BE A MINIMUM OF 6" APART MEASURED FROM THE OUTSIDE OF THE PIPES.
4. THE WATER LINE SHALL HAVE RESTRAINT JOINTS ON BOTH SIDES OF THE CROSSING AND ON ANY BENDS REQUIRED FOR THE CROSSING.

6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

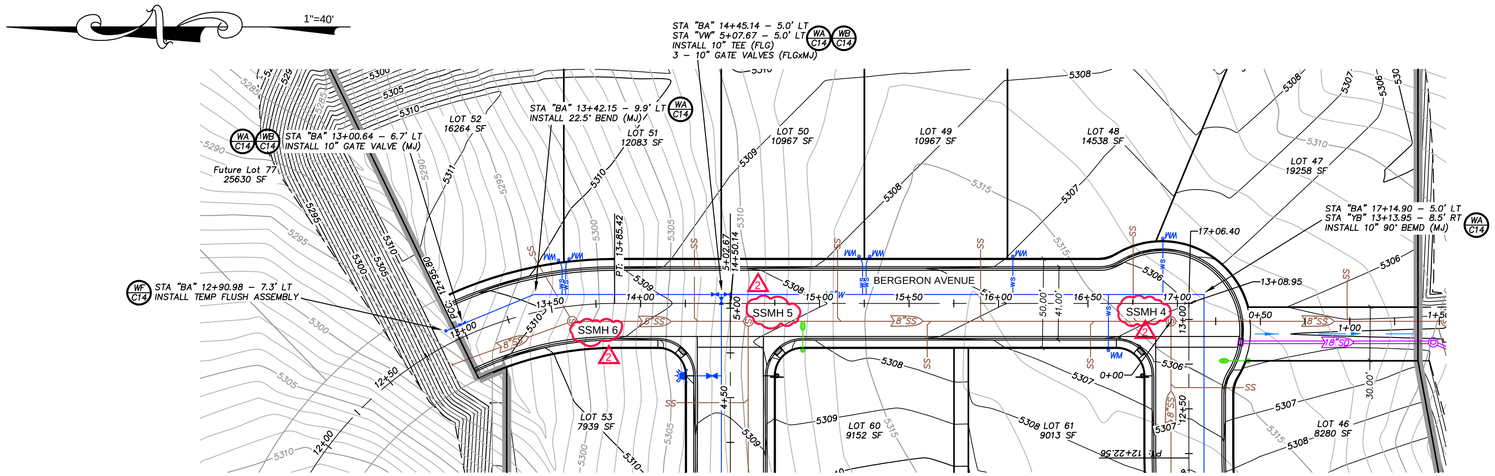
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

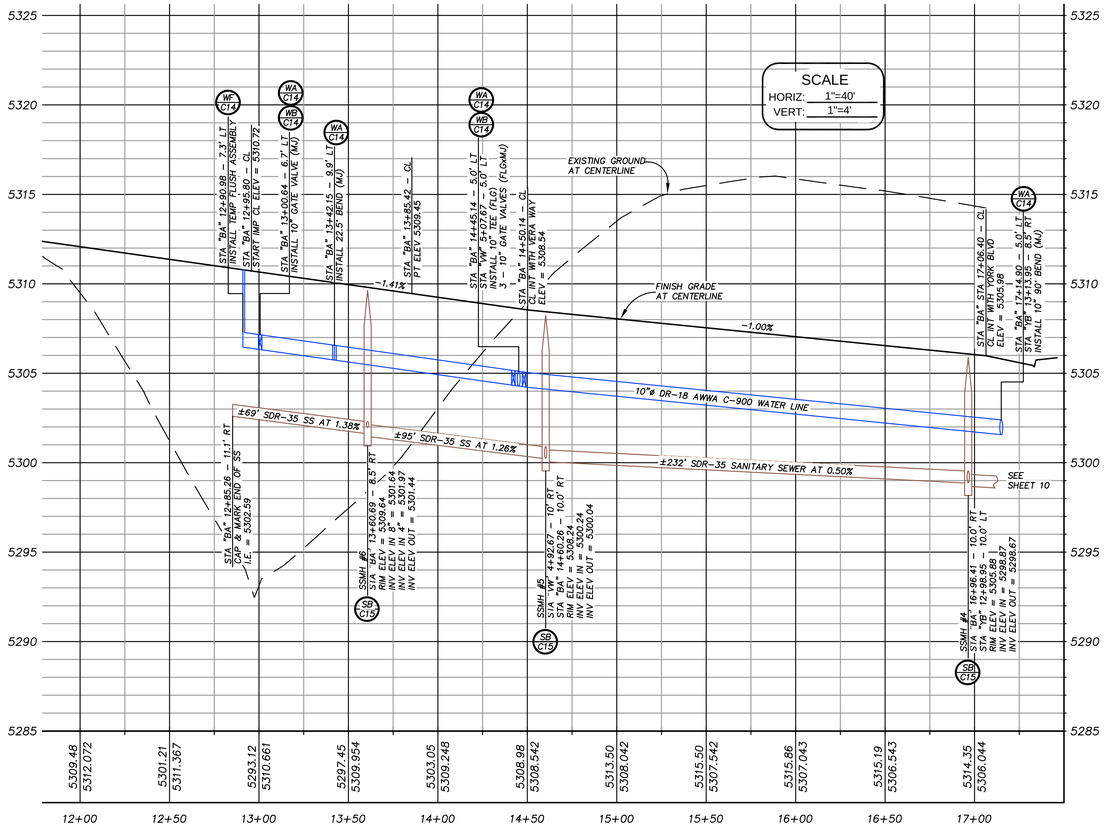
BERGERON VILLAGE - PHASE 3
PLAN AND PROFILE
VERA WAY
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: 1"=4'

SHEET
C8
OF 16





WATER NOTES:

1. ALL WATER MAINS SHALL BE AWWA C900, DR 18 WATER PIPE.
2. ALL WATER SERVICE LINES SHALL BE AWWA C-901, 1" IPS 200 PSI POLYETHYLENE.
3. ALL WATER LINE FITTINGS SHALL BE DUCTILE IRON AWWA C-110 AND AWWA C-153.
4. ALL WATER LINES SHALL BE PLACED WITH 42" OF MINIMUM COVER.
5. SEE SHEET C14 FOR DETAIL ON THRUST BLOCKS, VALVE, FIRE HYDRANT, WATER METER, WATER SERVICE CONNECTION, TEMPORARY FLUSH ASSEMBLY AND TRENCH DETAILS.
6. ALL METERS SHALL BE 1 INCH.
7. ALL NEW FIRE HYDRANTS WILL BE EQUIPPED WITH STORZ FITTINGS.
8. A MINIMUM OF 18" INCHES SEPARATION WILL BE ALLOWED BETWEEN WATER TAPS AS REQUIRED BY THE CITY OF ELKO UTILITIES DEPARTMENT.
9. A MINIMUM OF 2 FOOT SEPARATION WILL BE ALLOWED BETWEEN WATER TAPS AND HYDRANT TAPS AS REQUIRED BY THE CITY OF ELKO UTILITIES DEPARTMENT.
10. WATER AND SEWER LATERALS WILL BE PLACED IN SEPARATE TRENCHES AND LOCATED AT LEAST 48" APART MEASURE FROM OUTSIDE DIAMETERS PER NAC 445A.6716.
11. HOT TAPS SHALL BE PERFORMED BY THE CITY OF ELKO UTILITIES DEPARTMENT. THE CONTRACTOR SHALL SUPPLY TRENCH AND MATERIALS FOR THE HOT TAP. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS WORK WITH THE CITY OF ELKO.
12. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY OR STORM) UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718** AND THE BUREAU OF SAFE DRINKING WATER (BSDW) GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION, EDITION 1.0, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER OR BSDW.
13. ANY OPENINGS IN UNFINISHED PIPING AND APPURTENANCES MUST BE SEALED WATERTIGHT AT THE END OF EACH WORKING DAY.
14. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS.
15. THE MAXIMUM JOINT DEFLECTION SHALL NOT EXCEED THE MANUFACTURES SPECIFICATIONS.
16. ALL MATERIALS IN CONTACT WITH POTABLE WATER MUST BE NSF/ANSI 61 CERTIFIED AS LEAD FREE AND COMPATIBLE WITH DRINKING WATER.
17. BEFORE BEING CERTIFIED BY AN ENGINEER ACCEPTED BY THE CITY OF ELKO, ANY NEW WATER SYSTEMS, EXTENSIONS, REPLACEMENTS IN EXISTING SYSTEMS AND VALVED SECTIONS SHALL BE DISINFECTED IN ACCORDANCE WITH **AWWA C-651 (DISINFECTING WATER MAINS)** AND BE PRESSURE TESTED IN ACCORDANCE WITH **NAC 445A 67145.7 (A) AND (B) AND AWWA C-605**. THE DISPOSAL OF HIGHLY CHLORINATED WATER MUST BE COORDINATED WITH NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WATER POLLUTION CONTROL. ADDITIONALLY, A WATER MAIN MUST NOT BE PLACED INTO SERVICE, AFTER ITS INITIAL CONSTRUCTION, UNTIL AN ANALYSIS OF THE WATER MAIN WHICH INDICATES THAT IT MEETS PRIMARY STANDARDS FOR CHLOROFORM BACTERIA HAS BEEN OBTAINED AND REPORTED TO THE BUREAU OF SAFE DRINKING WATER.

SANITARY SEWER NOTES:

1. ALL SEWER LINES SHALL BE SDR-35 P.V.C.
2. SEE SHEET C15 FOR DETAILS OF SANITARY SEWER MANHOLE, LATERAL CONNECTION AND TRENCH DETAIL FOR SEWER PIPE.
3. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON THE TOP OF THE PIPE.
4. SEWER LATERALS TO BE 4" Ø AND SHALL HAVE A MINIMUM SLOPE OF 2% FOR 100-FEET.
5. EXPOSE EXISTING SANITARY SEWER LINE AT CONNECTION POINT AND CALL PROJECT ENGINEER FOR ELEVATION VERIFICATION PRIOR TO THE INSTALLATION OF ANY SANITARY SEWER.
6. THESE PLANS ARE IN COMPLIANCE WITH NAC 278.440 AND NAC 445A.65505 THOUGH NAC 445A.6731.

SPECIAL CROSSING NOTES:

1. SPECIAL CONSTRUCTION FOR STORM DRAIN LATERAL CROSSING WATER MAIN SHALL BE PER **NAC 445A.67165 SEPARATION OF LINES - SEWER MAIN CROSSING WATER MAIN** AND **NDEP BUREAU OF SAFE DRINKING WATER PUBLICATION "GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION" EDITION 1.0, UPDATED JUNE 2018, BULLETIN 3.0 VERTICAL CROSSING CONFLICT - WATER AND SEWER MITIGATION IN AREA OF SPECIAL CONSTRUCTION.**
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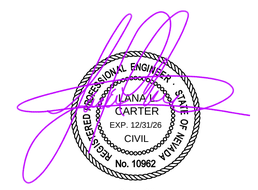

6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

REV	DATE	DESCRIPTION
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2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

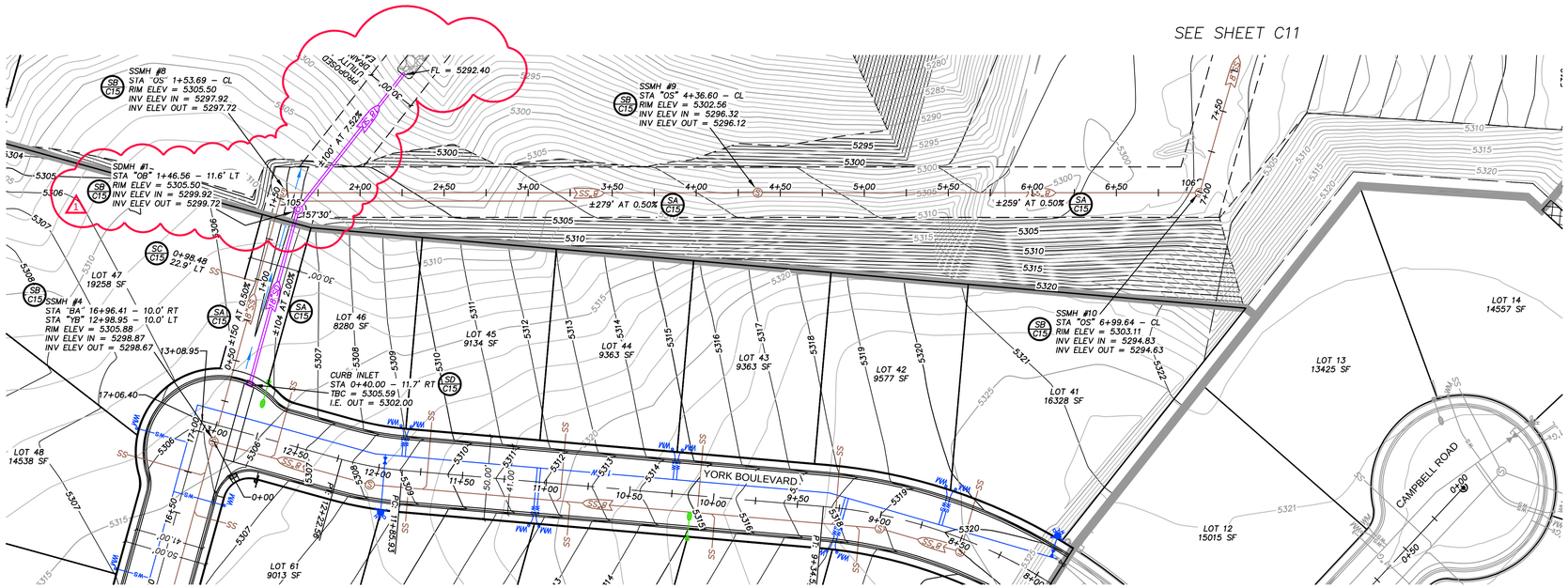
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

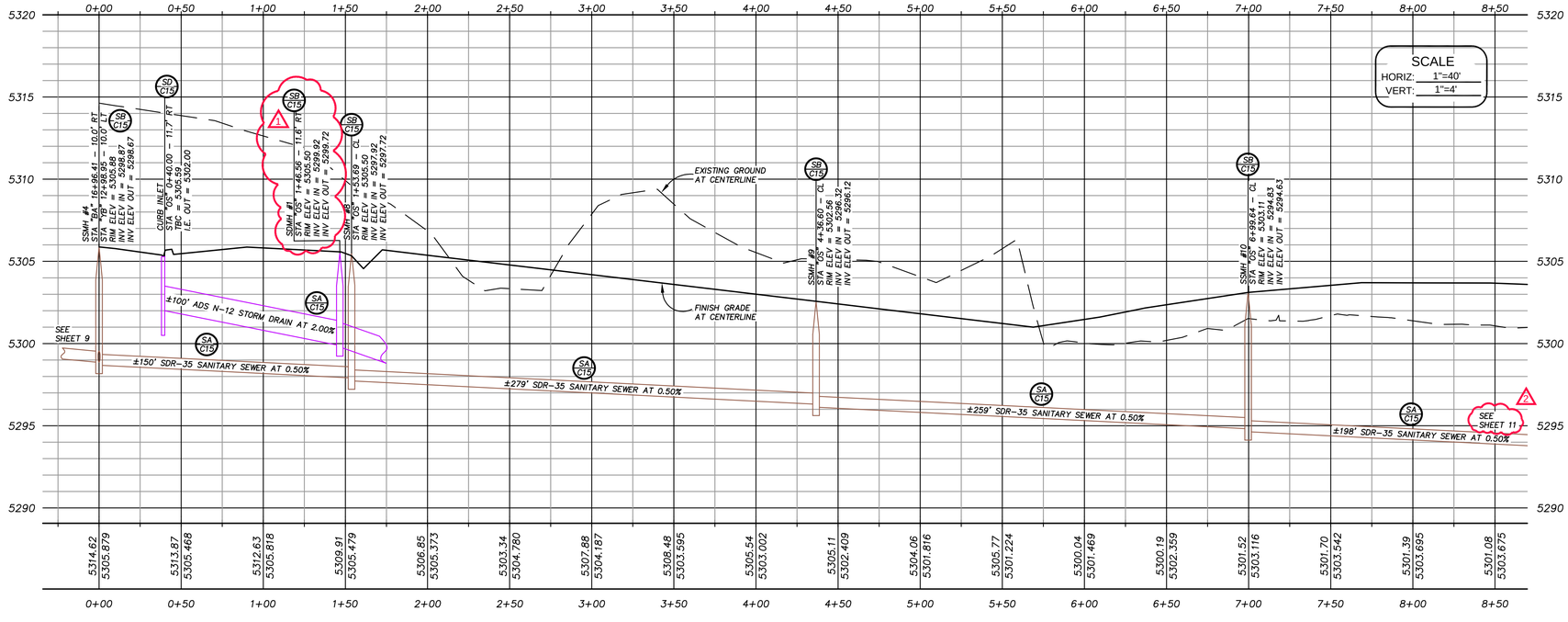
BERGERON VILLAGE - PHASE 3
PLAN AND PROFILE
BERGERON AVENUE
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: 1"=4'

SHEET C9 OF 16





SPECIAL CROSSING NOTES:

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4. THE WATER LINE SHALL HAVE RESTRAINT JOINTS ON BOTH SIDES OF THE CROSSING AND ON ANY BENDS REQUIRED FOR THE CROSSING.

STORM DRAIN NOTES:

1. ALL STORM DRAIN LINES SHALL BE ADS N-12 WT OR APPROVED EQUAL.
2. ALL CURB INLETS SHALL BE TYPE R-4 .
3. SEE SHEET C15 FOR DETAILS FOR TRENCH AND CURB BASIN DETAIL.
4. VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY OR STORM) UTILITIES SHALL BE MAINTAINED PER **NAC SECTION 445A.6715 - SECTION 445A.6718** AND THE BUREAU OF SAFE DRINKING WATER (BSDW) GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION, EDITION 1.0, UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER OR BSDW.

SANITARY SEWER NOTES:

1. ALL SEWER LINES SHALL BE SDR-35 P.V.C.
2. SEE SHEET C15 FOR DETAILS OF SANITARY SEWER MANHOLE, LATERAL CONNECTION AND TRENCH DETAIL FOR SEWER PIPE.
3. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON THE TOP OF THE PIPE.
4. SEWER LATERALS TO BE 4" Ø AND SHALL HAVE A MINIMUM SLOPE OF 2% FOR 100-FEET.
5. EXPOSE EXISTING SANITARY SEWER LINE AT CONNECTION POINT AND CALL PROJECT ENGINEER FOR ELEVATION VERIFICATION PRIOR TO THE INSTALLATION OF ANY SANITARY SEWER.
6. THESE PLANS ARE IN COMPLIANCE WITH NAC 278.440 AND NAC 445A.65505 THOUGH NAC 445A.6731.

6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

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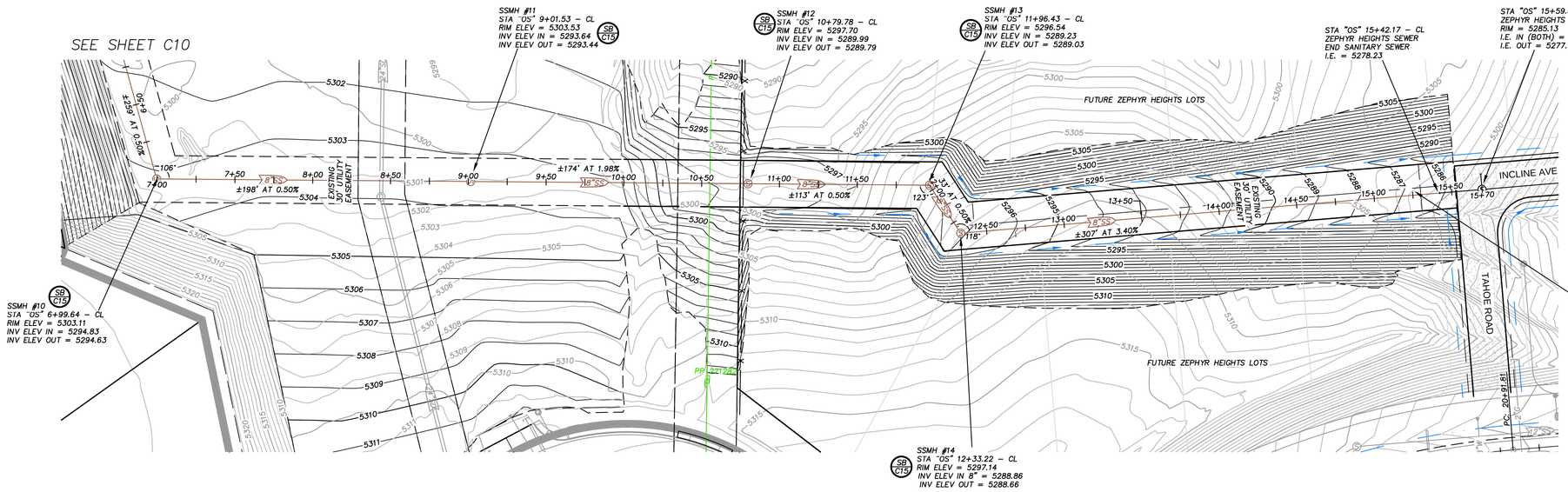
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE - PHASE 3
PLAN AND PROFILE
OFF SITE SEWER STA 0+00 TO 7+00
ELKO, NEVADA

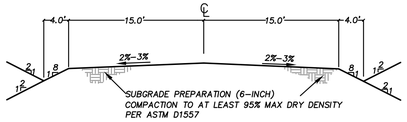
DESIGN BY:	LLC	
DRAWN BY:	LLC	
CHECKED BY:	LLC	
DATE:	6-17-25	
JOB NO:	17-2020	
DWG NO:	2025-03	

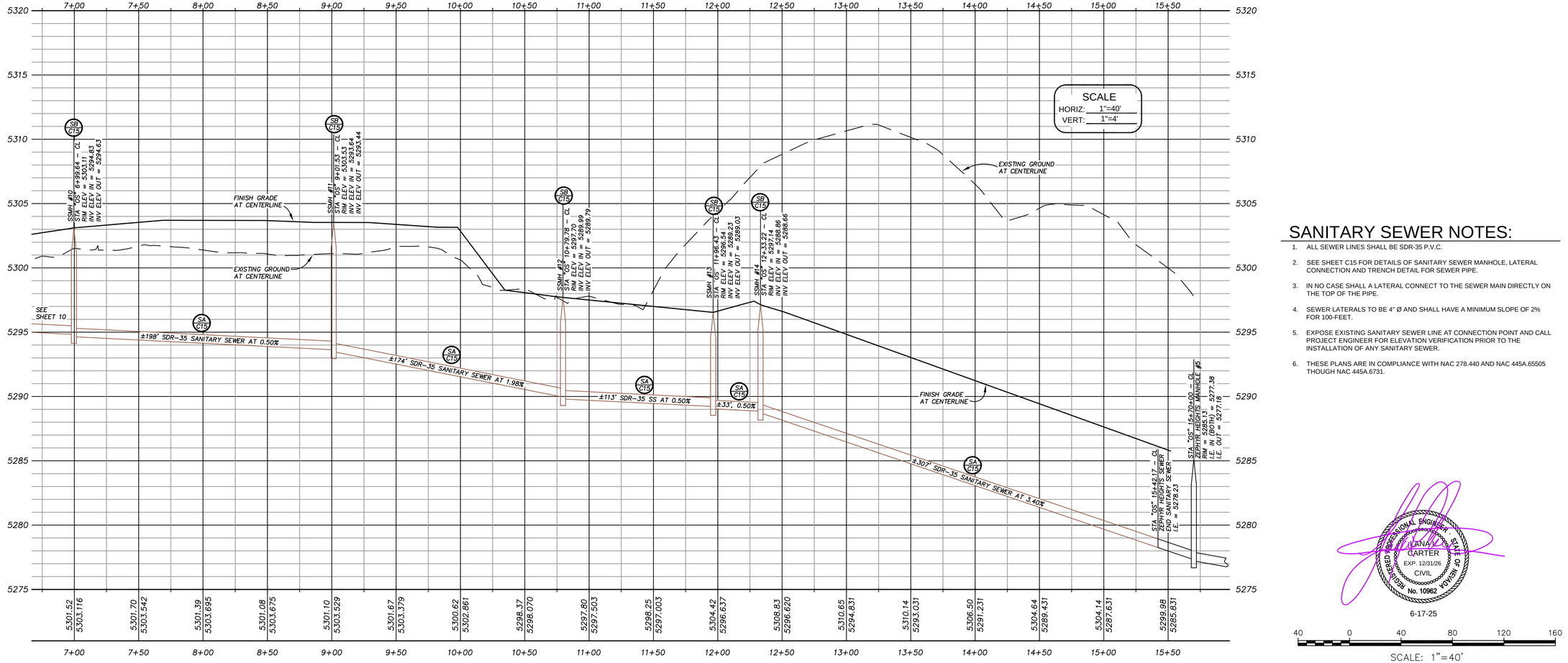
SCALE
HORIZ: 1"=40'
VERT: 1"=4'

SHEET
C10
OF 16



OFF SITE SEWER SECTION THRU ZEPHYR





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6-17-25

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SCALE: 1"=40'

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2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

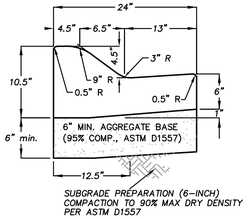
BERGERON VILLAGE - PHASE 2
PLAN AND PROFILE
OFF SITE SEWER STA 7+00 TO 15+50
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: 1"=4'

SHEET
C11

OF 16

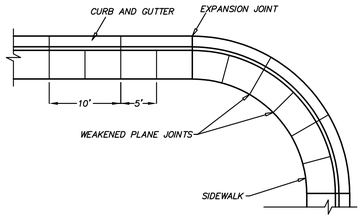


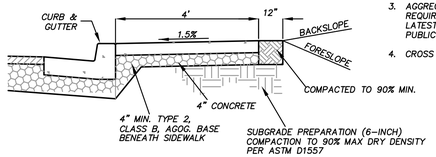
TYPE 2 CURB AND GUTTER — A

N.T.S.

CURB AND GUTTER NOTES:

1. CONCRETE WORK SHALL MEET THE REQUIREMENTS OF SECTIONS 200, 202 AND 312 OF THE 2016 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHALL BE A CITY OF ELKO APPROVED MIX DESIGN.
2. ALL CONCRETE CURB AND GUTTER SHALL HAVE ½" EXPANSION JOINTS EVERY 90 FEET AND AT ALL CURB RETURNS. WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET.
3. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 200 AND 308 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
4. PLANTMIX BITUMINOUS SURFACE SHALL BE ¼" TO ½" ABOVE LIP OF GUTTER PAN.



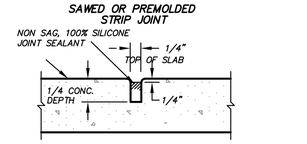


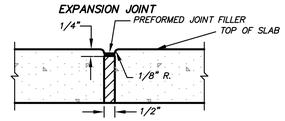
SIDEWALK NOTES:

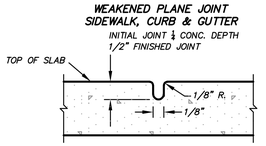
1. CONCRETE WORK SHALL MEET THE REQUIREMENTS OF SECTIONS 200, 202 AND 312 OF THE 2016 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHALL BE A CITY OF ELKO APPROVED MIX DESIGN.
2. ALL CONCRETE SIDEWALK SHALL HAVE ½" EXPANSION JOINTS EVERY 30 FEET AND AT ALL CURB RETURNS. WEAKENED PLANE JOINTS SHALL BE EVERY 5 FEET AND COINCIDE WITH THE ADJACENT CURB AND GUTTER WEAKENED PLANE JOINTS. THE WEAKENED PLANE JOINTS PLACED EVERY 5' IN THE SIDEWALK MAY BE SAW CUT WITH CITY OF ELKO APPROVAL AND SHALL MEET THE REQUIREMENTS OF SECTION 314 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 200 AND 308 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
4. CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2%

P.C.C. SIDEWALK — B

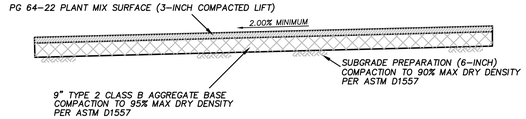
N.T.S.







WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED TO SECTION 312.03.02.02.03.02 FOR CURB AND SECTION 312.03.02.02.03.02.01 FOR SIDEWALK WITH SPECIAL CARE IN EITHER CASE TO THE PARTED DEPTH OF 2"



ASPHALT PAVEMENT SECTION — C

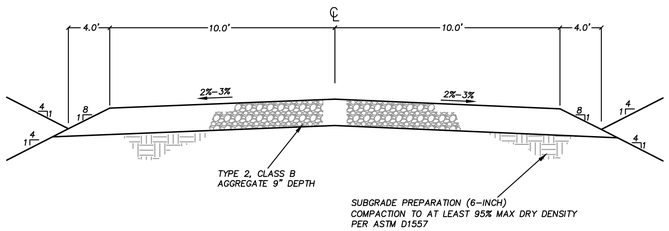
N.T.S.

YORK BOULEVARD, VERA WAY
AND BERGERON AVENUE

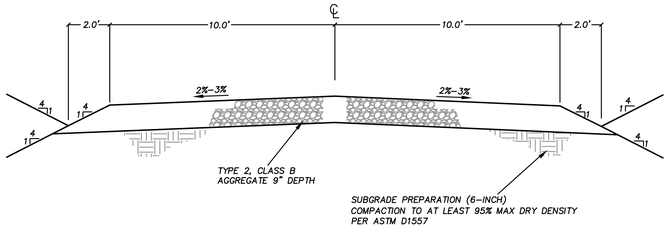
N.T.S.

P.C.C. JOINTING DETAILS

CAMPBELL/VERA LOOP



ALTERNATE ACCESS FROM JENNINGS



GRAVEL SECTION FOR FIRE DEPARTMENT ACCESS — D

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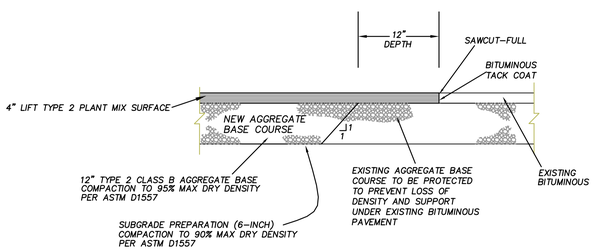
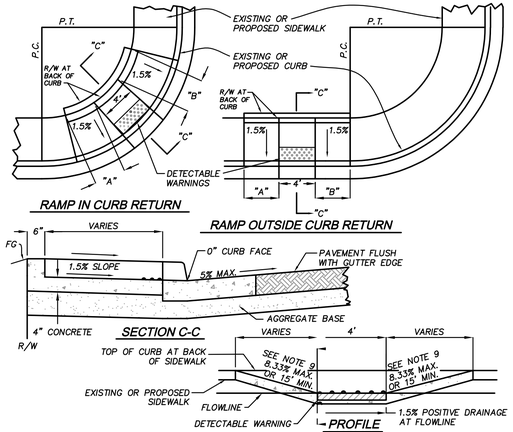


PAVEMENT SAW CUT AND JOIN — E



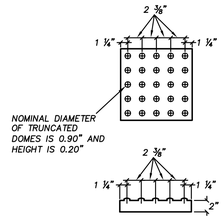
TRANSITION LENGTHS FOR 8.33% SLOPE (SEE NOTE 9)		
GRADE % (B TO A)	"A" MIN. (FT.)	"B" MIN. (FT.)
> −4.00	4.5	15.0
−4 TO −3.01	4.5	12.0
−3 TO −2.01	5.0	9.5
−2 TO −1.01	5.5	8.0
−1 TO 1	7.0	7.0
1.01 TO 2	8.0	5.5
2.01 TO 3	9.5	5.0
3.01 TO 4	12.0	4.5
> 4.00	15.0	4.5

NOTES:

1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 337.10 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 302 & 308 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. CURB RAMP WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN.
4. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
5. WHEN CONSTRUCTING A RAMP WHERE CURB & GUTTER EXIST, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER. LOCATION OF CURB RAMP SHALL BE APPROVED BY THE CITY OF ELKO PRIOR TO INSTALLATION.
6. DETECTABLE WARNINGS SHALL BE YELLOW AND CONSIST OF RAISED TRUNCATED DOMES AND PLACED AT THE BOTTOM PORTION OF THE RAMP.
7. CROSS SLOPE OF SIDEWALK AND RAMP SURFACES SHALL NOT EXCEED 2%.
8. CURB RAMPS & DETECTABLE WARNINGS SHALL MEET THE REQUIREMENTS OF 28 CFR PART 36, ADA STANDARDS FOR ACCESSIBLE DESIGN.
9. PER THE PROWAG, SECTION R304.3.2, THE RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% MAXIMUM, BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FEET. ON STEEP STREETS OR INTERSECTIONS THE TRANSITION TO FULL HEIGHT CURB MAY HAPPEN IN THE FIRST 15' MINIMUM, AND THE RESULTING SLOPE OF THE RAMP IS ALLOWED TO EXCEED 8.33%.

CURB RAMP — F

N.T.S.



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Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

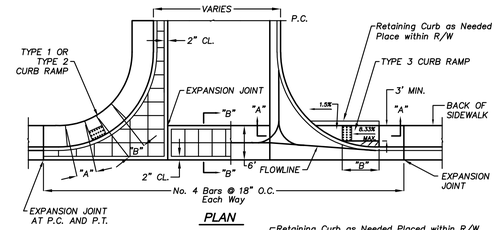
BERGERON VILLAGE PHASE 3 IMPROVEMENT DETAILS

ELKO, NEVADA

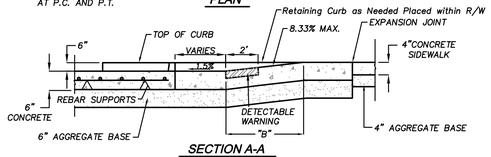
DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: N/A
VERT: N/A

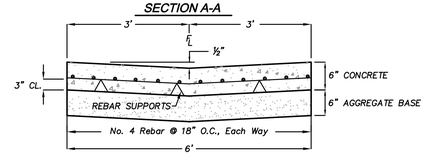
SHEET
C12
OF 16



PLAN



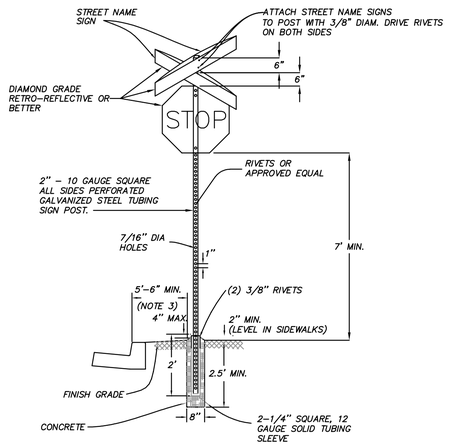
SECTION A-A



SECTION B-B

P.C.C. VALLEY GUTTER WITH APRON (G)

N.T.S.

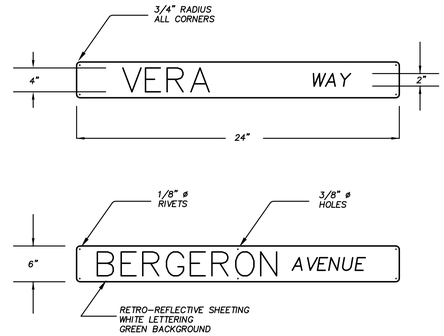


NOTES:

1. SIGN MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. MATERIALS USED FOR SIGNING SHALL BE DIAMOND GRADE RETROREFLECTIVE SHEETING OR BETTER.
2. STREET NAME SIGN SHALL BE AS SPECIFIED BE THE GOVERNING AGENCY AND MOUNTED WITH VANDAL – PROOF HARDWARE.
3. ON STREETS WHERE CURBING DOES NOT EXIST, SET EDGE OF SIGN 6' MINIMUM FROM PAVEMENT EDGE.
4. EACH SIGN SHALL CONSIST OF TWO PLATES RIVETED TOGETHER.

TYPE 2 STREET SIGN

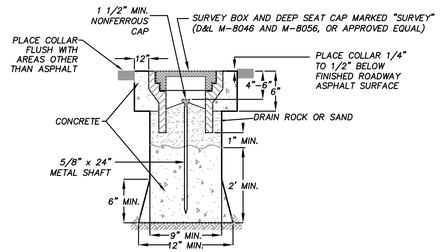
STREET AND STOP SIGN (H)



NOTES:

1. SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE LATEST EDITION OF THE M.U.T.C.D.
2. SIGN PANELS SHALL BE MOUNTED ON SIGN BLANK EXTRUDED ALUMINUM NO. 6061–T6, WITH A MINIMUM THICKNESS OF 0.080".
3. MATERIALS TO BE USED FOR SIGNING SHALL BE DIAMOND GRADE RETRO–REFLECTIVE SHEETING OR BETTER.

STREET NAME SIGN

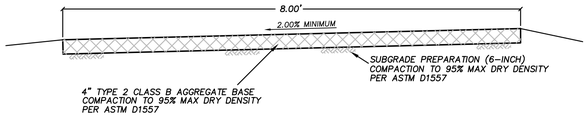


NOTES:

1. FERROUS METAL OVER MONUMENT FOR RECOVERY BY DIP NEEDLE OR MAGNETIC INSERT IN CAP.
2. 1 1/2" MIN. NONFERROUS CAP WITH PROFESSIONAL LAND SURVEYOR NO. PERMANENTLY ATTACHED PRIOR TO PLACEMENT.

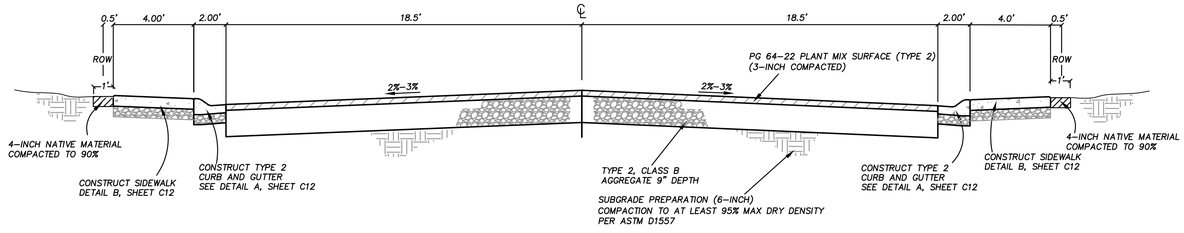
   5/8" METALLIC SHAFT (SMOOTH SHAFTS TO BE DEFORMED).
4. CONSTRUCTION SHALL MEET THE REQUIREMENTS OF SECTION 216 OF 2016 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
5. SCORE CONCRETE COLLAR AS PER MANHOLE COLLAR SHOWN ON DRAWING U–5.1
3. CLASS A MONUMENT (I)

N.T.S.



GRAVEL SECTION FOR PEDESTRIAN PATH (J)

N.T.S.



TYPICAL ROADWAY SECTION
YORK BOULEVARD
VERA WAY
BERGERON AVENUE

N.T.S.

6-17-25

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

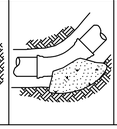
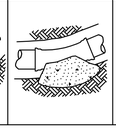
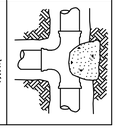
BERGERON VILLAGE PHASE 3 IMPROVEMENT DETAILS

ELKO, NEVADA

DESIGN BY:	LLC	CHECKED BY:	LLC
DRAWN BY:	LLC	DATE:	6-17-25
		JOB NO:	17-2020
		DWG NO:	2025-03

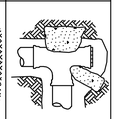
SCALE
HORIZ: N/A
VERT: N/A

SHEET C13
OF 16

Type of Fitting	90° Bend	45° Bend	11-1/4° or 22-1/2° Bend	Tee or Dead End
Typical Installation				

THRUST BLOCK BEARING AREA (SQ. FT.)

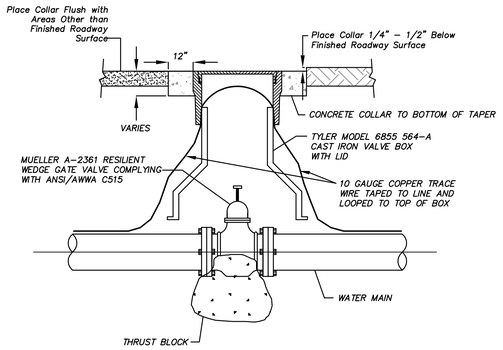
Type of Fitting		90° Bend	45° Bend	11-1/4° or 22-1/2° Bend	Tee or Dead End	Tee with Plug	Cross with Plug
Pipe		2	1	1	2	2	2
	6"	4	4	2	4	4	4
	8"	7	4	2	5	7	7
	10"	12	6	3	8	12	12
	12"	16	10	5	12	16	16
	18"	45	25	13	32	45	45

Type of Fitting	Cross with Plug	Tee with Plug
Typical Installation		

NOTES:

1. Thrust blocks to be constructed of Class "C" concrete.
2. Areas given are for class 150 pipe at test pressure of 150 p.s.i., with 2000 p.s.f. bearing capacity. Installations using different pipe, test pressures, and/or soil types should adjust areas accordingly, subject to approval of the Engineer.
3. Thrust blocks to be poured against undisturbed soil.
4. Joints and face of plugs to be kept clear of concrete.

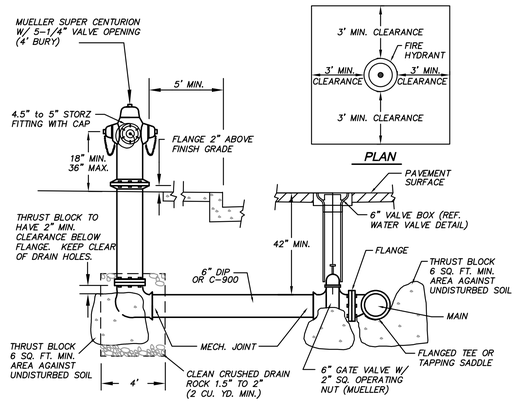
STANDARD THRUST BLOCKS — WA
N.T.S.



NOTES:

1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 337.10 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, UNLESS OTHERWISE SPECIFIED.
2. VALVE COLLAR SHALL BE SET ¼" TO ½" BELOW FINISHED CONCRETE OR BITUMINOUS SURFACE. VALVE COLLARS IN ALL OTHER AREAS SHALL BE SET FLUSH WITH FINISHED GRADE, UNLESS OTHERWISE SPECIFIED.
3. CONCRETE COLLAR REQUIRED WHEN VALVE IS NOT LOCATED IN CONCRETE OR BITUMINOUS SURFACE.

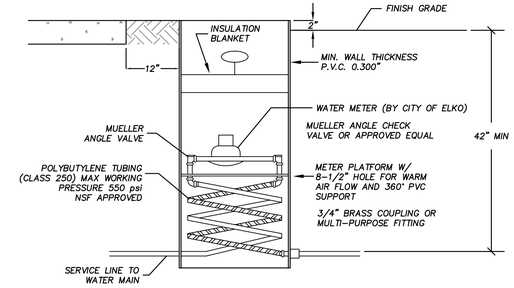
VALVE AND BOX — WB
N.T.S.



NOTES:

1. HYDRANTS SHALL BE ENAMELED RED.
2. ALL HYDRANTS SHALL HAVE (2) 2.5" PUMPER OUTLETS (MALE THREAD WITH CAP & CHAIN) AND (1) 4.5" STEAMER PUMPER OUTLET WITH 4.5" – 5" STORZ MALE CONNECT WITH CAP & CHAIN. ALL THREADS SHALL BE SPECIFIED FOR AMERICAN NATIONAL HOSE COUPLING.
3. OPERATING NUT SHALL BE 1.5" PENTAGON.
4. INSPECTION BY A CITY OF ELKO FIRE OR PUBLIC WORKS REPRESENTATIVE IS REQUIRED PRIOR TO BACKFILLING.
5. FOR FINAL ACCEPTANCE, A FLOW, FLUSH, & HYDROSTATIC TEST SHALL BE WITNESSED BY CITY OF ELKO FIRE DEPT./UTILITY DIRECTOR OR PUBLIC WORKS REPRESENTATIVE, PER FORM 13-97, "MATERIALS & TEST CERTIFICATE FOR UNDERGROUND PIPING".
6. ALL HYDRANT SHALL INCLUDE APPROVED TRAFFIC PROTECTION, 3' MINIMUM CLEARANCES, AND POSITIVE DRAINAGE AWAY FROM THE HYDRANT.

FIRE HYDRANT ASSEMBLY — WC
N.T.S.

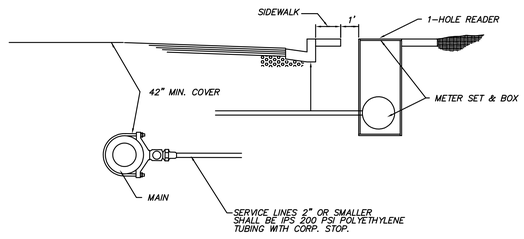


1" WATER METER BOX

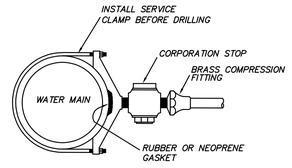
NOTES:

1. 4" WATER METER BOX SHALL BE MUELLER / McCULLOUGH THERMA-COIL METER BOX.
2. NO MORE THAN ONE EXTENSION ALLOWED.
3. LOCATE WATER METER 1 FT. BEHIND BACK OF SIDEWALK.

WATER METER — WD
N.T.S.



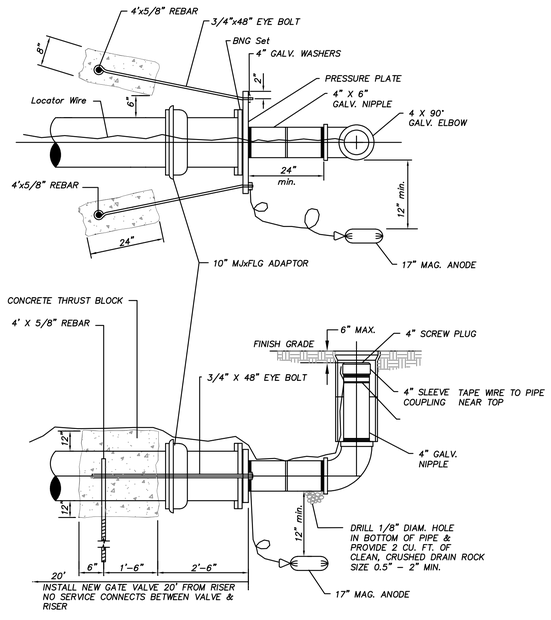
SERVICE TAP



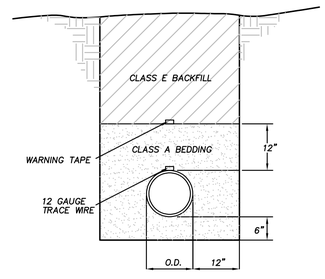
NOTES:

1. CORPORATION STOP, CURB STOP, (GATE VALVE 4" OR LARGER) AND SERVICE LINE TO BE SAME SIZE.
2. SERVICE CLAMPS SHALL BE DOUBLE STRAP FOR ALL SERVICE TAP SIZES, EXCEPT WHERE SIZE OF TAP EXCEEDS MANUFACTURER'S RECOMMENDED LIMIT FOR SIZE OF MAIN.
3. TAPS SHALL BE STAGGERED AND PLACED A MINIMUM OF 12" APART FOR DUCTILE IRON PIPE. TAPS SHALL BE STAGGERED AND PLACED A MINIMUM OF 18" APART FOR C900. NO TAPS SHALL BE CLOSER THAN 2 FEET FROM THE ENDS OF PIPE.
4. ALL JOINT FITTINGS SHALL BE OF BRASS COMPRESSION TYPE.

WATER SERVICE CONNECTION — WE
N.T.S.



TEMPORARY FLUSH ASSEMBLY — WF
N.T.S.



1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL NOT BE ALLOWED.
2. BACKFILL SHALL MEET THE REQUIREMENTS FOR CLASS "E" BACKFILL WITH NO ROCKS OVER 4" COMPACTED IN 6" MAXIMUM LIFTS TO MINIMUM 90% OF MAXIMUM DRY DENSITY ASTM D1557 MODIFIED PROCTOR.
3. BEDDING MATERIAL SHALL MEET REQUIREMENTS FOR CLASS "A" BACKFILL AS SHOWN IN SUBSECTION 200.03.02 OF STANDARD SPECIFICATIONS AND COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY ASTM D1557 MODIFIED PROCTOR.
4. PLACE METALLIC LOCATION TAPE (12 GAGE TRACE WIRE) 1 FOOT ABOVE WATER, SEWER AND STORM DRAIN PIPE.
5. HAUNCHING SHALL BE TO SPRING LINE OF PIPE.
6. FOR TRENCHES & EXCAVATIONS LOCATED WITHIN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL.
7. ALL TRENCHES AND EXCAVATIONS SHALL CONFORM TO THE LATEST EDITION OF O.S.H.A. AND M.U.T.C.D. REQUIREMENTS.
8. UNDERGROUND WARNING TAPE SHALL BE METALLIC AND APPROPRIATELY LABELED AND COLORED.

TRENCH DETAIL — WG
N.T.S. FOR WATER

6-17-25

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

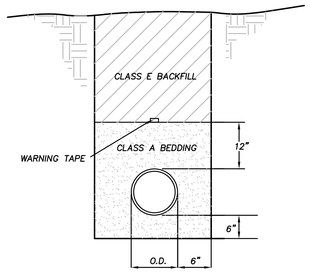
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE
PHASE 3
WATER DETAILS
ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

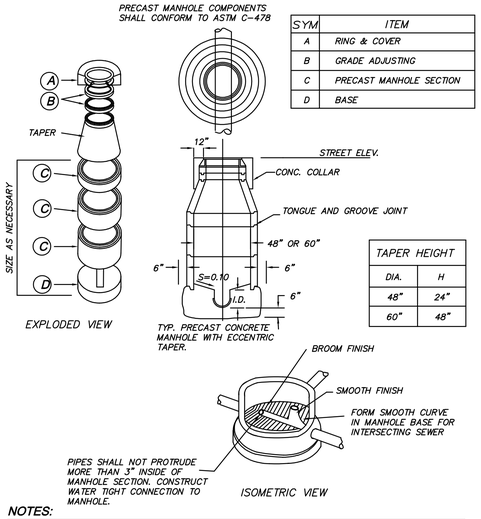
SCALE
HORIZ: N/A
VERT: N/A

SHEET
C14
OF 16



1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL NOT BE ALLOWED.
2. BACKFILL SHALL MEET THE REQUIREMENTS FOR CLASS "E" BACKFILL WITH NO ROCKS OVER 4" COMPACTED IN 6" MAXIMUM LIFTS TO MINIMUM 90% OF MAXIMUM DRY DENSITY ASTM D1557 MODIFIED PROCTOR.
3. BEDDING MATERIAL SHALL MEET REQUIREMENTS FOR CLASS "A" BACKFILL AS SHOWN IN SUBSECTION 200.03.02 OF STANDARD SPECIFICATIONS AND COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY ASTM D1557 MODIFIED PROCTOR.
4. PLACE METALLIC LOCATION TAPE (12 GAGE TRACE WIRE) 1 FOOT ABOVE WATER, SEWER AND STORM DRAIN PIPE.
5. HAUNCHING SHALL BE TO SPRING LINE OF PIPE.
6. FOR TRENCHES & EXCAVATIONS LOCATED WITHIN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL.
7. ALL TRENCHES AND EXCAVATIONS SHALL CONFORM TO THE LATEST EDITION OF O.S.H.A. AND M.U.T.C.D. REQUIREMENTS.
8. UNDERGROUND WARNING TAPE SHALL BE METALLIC AND APPROPRIATELY LABELED AND COLORED.

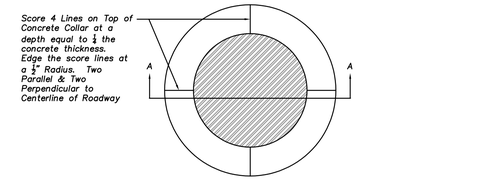
TRENCH DETAIL
N.T.S. SEWER AND STORM DRAIN — SA



SYM	ITEM
A	RING & COVER
B	GRADE ADJUSTING
C	PRECAST MANHOLE SECTION
D	BASE

TAPER HEIGHT	
DIA.	H
48"	24"
60"	48"

NOTES:
1. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
2. PRECAST BASE MAY BE USED IF APPROVED BY GOVERNING AGENCY.
3. MANHOLE STEPS ARE NOT REQUIRED.
4. REFER TO DETAIL SHEET (MANHOLE – GENERAL NOTES) FOR ADDITIONAL INFORMATION.



SECTION A-A

NOTES:
1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 337.10 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. MANHOLE COLLAR SHALL BE SET ½" TO ¾" BELOW FINISHED CONCRETE OR BITUMINOUS SURFACE. MANHOLE COLLARS IN ALL OTHER AREAS SHALL BE SET FLUSH WITH FINISHED GRADE, UNLESS OTHERWISE SPECIFIED.
3. CONCRETE COLLAR IS REQUIRED WHEN MANHOLE IS NOT LOCATED IN CONCRETE OR BITUMINOUS SURFACE.
4. REFER TO DETAIL SHEET (MANHOLE – GENERAL NOTES) FOR ADDITIONAL INFORMATION.

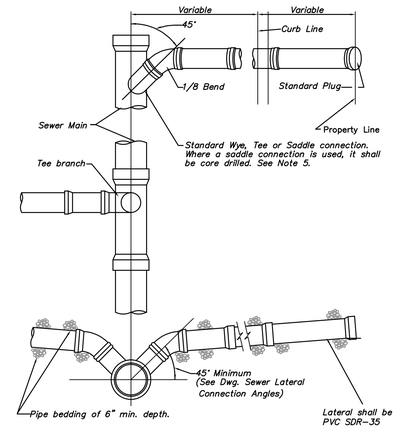
TYPE 1 MANHOLE
N.T.S. FOR SANITARY SEWER — SB

MANHOLES - GENERAL NOTES:
1. ALL MANHOLES SHALL MEET THE REQUIREMENTS OF SECTION 204 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. MANHOLE COVERS SHALL BE IDENTIFIED AS STORM DRAIN, WATER OR SEWER CLEARLY DISPLAYED ON THE COVER.
3. ALL TRENCHES AND EXCAVATIONS SHALL CONFORM WITH THE LATEST EDITION OF THE O.S.H.A. REQUIREMENTS.
4. PRECAST MANHOLE SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS "RAM-NEK" OR EQUAL AS PER MANUFACTURER'S RECOMMENDATIONS.
5. TYPE & SIZE OF MANHOLE TO BE CONSTRUCTED IN A PARTICULAR LOCATION SHALL BE DETERMINED BY THE PIPE SIZE, ALIGNMENT AND GRADE AS FOLLOWS:

   TYPE 1A & 1B

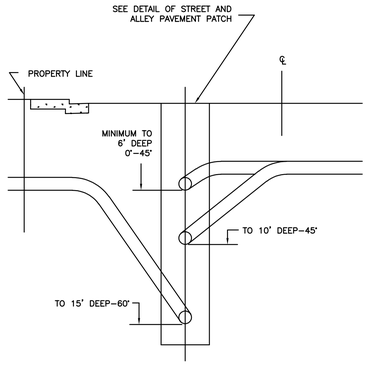
   48" SIZE
   - A. ALL CASES FOR PIPE 18" AND SMALLER.
   - B. 24" AND SMALLER PIPE ON TANGENT LINE & GRADE.

   60" SIZE
   - A. 27" THROUGH 36" PIPE ON TANGENT LINE AND GRADE.
   - B. 21" THROUGH 27" PIPE AT ANGLE POINTS AND CHANGES IN GRADE OR PIPE SIZE.
6. EXCAVATABLE SLURRY BACKFILL MAY BE USED AS STRUCTURAL BACKFILL FOR MANHOLES AND MUST MEET THE REQUIREMENTS OF SECTIONS 305.16 & 337.08 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
7. THE TOTAL HEIGHT OF MANHOLE GRADE RINGS SHALL NOT EXCEED 12 INCHES.
8. MANHOLE ACCESS DIAMETER SHALL BE 24" MINIMUM.

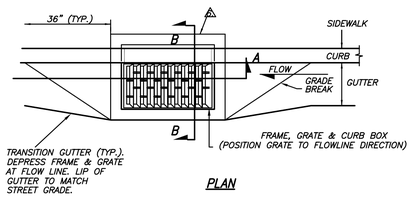


NOTES:
1. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OR MATCH THE FLOWLINE OF THE PIPE.
2. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2%
3. ALL JOINTS ON SEWER LATERAL PIPE WITHIN THE RIGHT-OF-WAY SHALL BE COMPRESSION TYPE.
4. LATERAL SHALL EXTEND TO PROPERTY LINE UNLESS OTHERWISE SHOWN ON PLANS.
5. SADDLE CONNECTION SHALL BE PVC SADDLE WITH STAINLESS STEEL STRAPS.
6. ANY ABANDONED SEWER LATERAL IS THE RESPONSIBILITY OF THE CUSTOMER AND SHALL BE CUT AND CAPPED OR PLUGGED WITHIN 6 INCHES OF THE SEWER MAIN AND SUBJECT TO THE CITY OF ELKO'S APPROVAL.
7. SEWER MAIN/LATERAL CONNECTIONS SHALL MEET THE REQUIREMENTS OF NAC 445A.

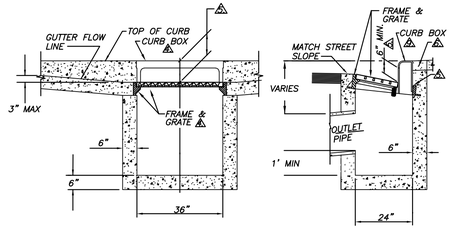
SEWER LATERAL CONNECTION
N.T.S. — SC



LATERAL CONNECTION ANGLES



PLAN



SECTION A-A **SECTION B-B**

NOTES:
1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 337.10 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 302, 304 & 308 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. USE STRUCTURAL BACKFILL FOR BASE BENEATH DROP INLET FLOOR AND BACKFILLING OF DROP INLET AND SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95%
3. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 326 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. REINFORCING STEEL TO HAVE A MINIMUM OF 2 INCH CLEARANCES.
4. FRAME SHALL BE NEENAH R-3294, R-3295 OR R-3067 SINGLE CURB UNIT WITH A TYPE L "VANE GRATE" FOR SINGLE FLOW AND CURB BOX, SOUTH BAY FOUNDRY VANE GRATE SBF 1947 OR APPROVED EQUAL, INSTALLED WITH PROPER FLOW DIRECTION OR A TYPE "DL" GRATE FOR DUAL FLOW.
5. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB.
6. IF NO SIDEWALK IS PRESENT, POUR 6" CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
7. DROP INLET MAY BE A CAST-IN-PLACE CONCRETE UNIT WITH PRIOR APPROVAL FROM THE CITY OF ELKO.
8. DROP INLET SHALL BE TRAFFIC-RATED & LOCATED AT THE LOW POINTS OR PER APPROVED PLANS.
9. ALL STORM DRAIN INLETS SHALL HAVE A CAST IRON HOOD WITH THE FOLLOWING LANGUAGE STAMPED INTO THE HOOD "NO DUMPING! DRAINS TO WATERWAYS".
10. INFLOW PIPE INVERT ELEVATION SHALL BE ≥0.1 FEET ABOVE OUTFLOW PIPE INVERT ELEVATION.
11. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE CITY OF ELKO.
12. STORM DRAIN PIPE ENTERING OR EXITING DROP INLET SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) OR REINFORCED CONCRETE PIPE (RCP). USE OF ANY OTHER PIPE WILL REQUIRE PRE-APPROVAL FROM THE CITY OF ELKO. PIPE'S MINIMUM AND MAXIMUM COVER SHALL BE AS PER MANUFACTURER'S RECOMMENDATION.

TYPE 4-R CURB BASIN
N.T.S. — SD

6-17-25

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

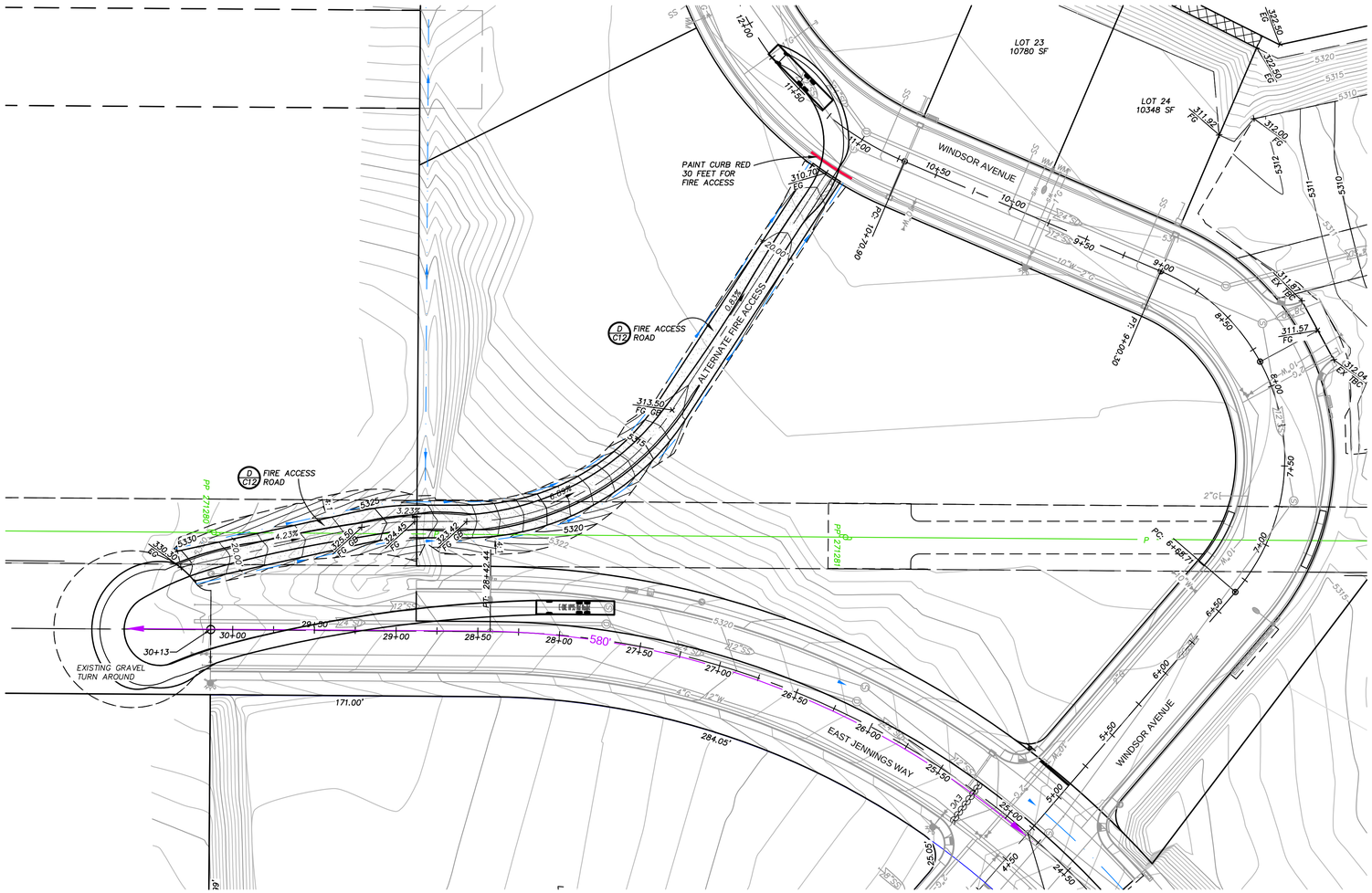
Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE
PHASE 3
SEWER & STORM DRAIN DETAILS
ELKO, NEVADA

DESIGN BY:	LLC	
DRAWN BY:	LLC	
CHECKED BY:	LLC	
DATE:	6-17-25	
JOB NO:	17-2020	
DWG NO:	2025-03	

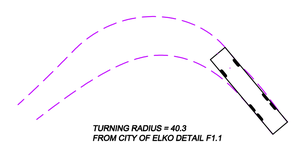
SCALE
HORIZ: N/A
VERT: N/A

SHEET
C15
OF 16



NOTES:

1. ALL NEW CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 INTERNATIONAL FIRE CODE AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2016 EDITION.
2. FIRE DEPARTMENT ACCESS SHALL HAVE A PAINTED CURB AND SIGNAGE COMPLYING WITH THE 2018 INTERNATIONAL FIRE CODE SECTION 503.3 AND APPENDIX D SECTION 103.6.
3. FIRE DEPARTMENT ACCESS ROAD SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL FIRE CODE APPENDIX D SECTION D105.
4. ADDITIONAL NO PARKING FIRE LANE SIGNS AND OR STRIPING MAY BE REQUIRED. COORDINATION LOCATIONS WITH FIRE MARSHAL.
5. FIRE TRUCK TURN MOVEMENT IS BASED ON AN E-ONE HP95 MID MOUNT ENGINE.



TURNING RADIUS = 40.3
FROM CITY OF ELKO DETAIL F1.1

6-17-25

40 0 40 80 120 160

SCALE: 1"=40'

REV	DATE	DESCRIPTION
1	4-27-25	CITY OF ELKO PLAN CHECK DATED 4-24-25
2	6-17-25	NDEP PLAN CHECK PER LETTER DATED 6-13-25

Carter Engineering, LLC
Civil Engineering
P. O. Box 794
Elko, Nevada 89803
775-397-2531

BERGERON VILLAGE PHASE 3 ALTERNATE FIRE ACCESS

ELKO, NEVADA

DESIGN BY:	LLC
DRAWN BY:	LLC
CHECKED BY:	LLC
DATE:	6-17-25
JOB NO:	17-2020
DWG NO:	2025-03

SCALE
HORIZ: 1"=40'
VERT: N/A

SHEET
C16
OF 16