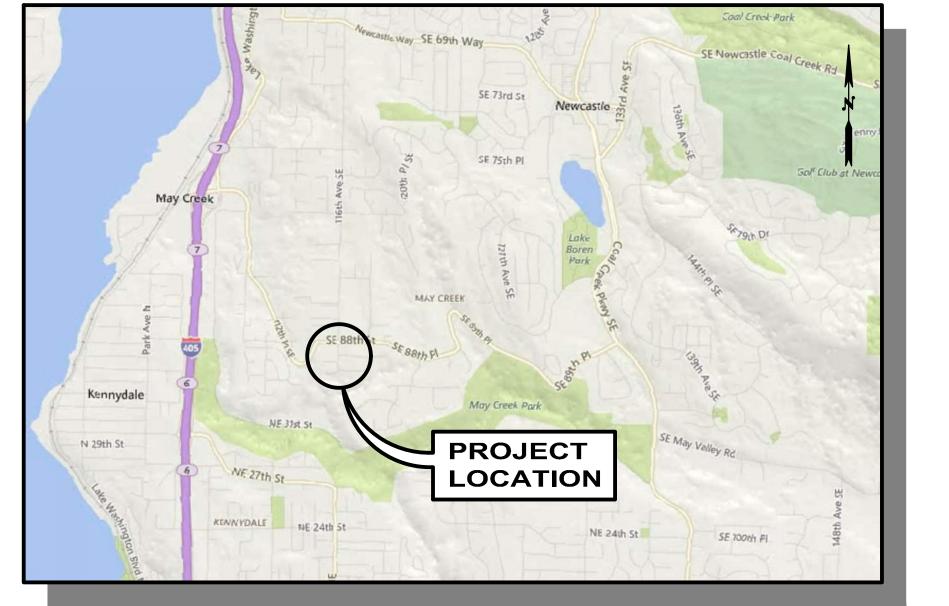
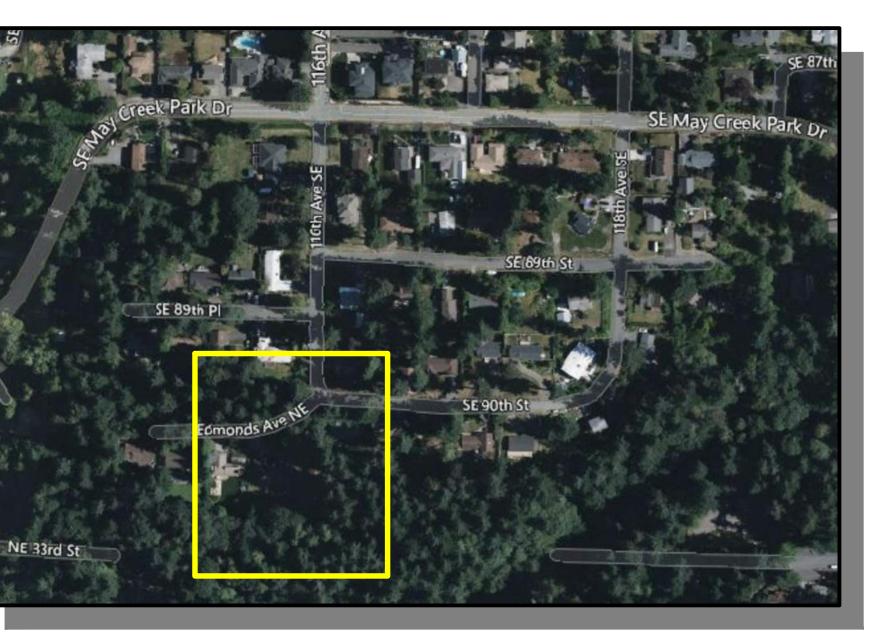
# CITY OF NEWCASTLE 116TH AVENUE SE FLOW CONTROL FACILITIES



VICINITY MAP N.T.S.

5:25 PM

DESIGNED BY KJ		Osborn Consulting, Inc.
DRAWN BY HDO	OSBORN CONSULTING	Bellevue   Seattle   Spokane
CHECKED BY LRR	INCORPORATED	www.osbornconsulting.com



**PROJECT LOCATION** N.T.S.

## **CITY OFFICIALS:**

LINDA NEWING - MAYOR **ARIANA SHERLOCK - DEPUTY MAYOR TOM GRIFFIN - COUNCIL MEMBER** PRATIMA LAKHOTIA - COUNCIL MEMBER PAUL CHARBONNEAU - COUNCIL MEMBER **ROBERT CLARK - COUNCIL MEMBER** CHRIS VILLASEÑOR - COUNCIL MEMBER

## **CITY OF NEWCASTLE:**

PROJECT MANAGER **BRIAN MILLER** 12835 NEWCASTLE WAY, SUITE 200 NEWCASTLE, WA 98056 (425) 386-4111

## SURVEYOR:

AXIS SURVEY AND MAPPING ZANE L. NALL, PLS 15241 NE 90TH ST. REDMOND, WA 98052 (425) 823-5700 1-800-933-AXIS

## **ENGINEERING:**

OSBORN CONSULTING, INC. LAURA RUPPERT, PE 1800 112TH AVE. NE, SUITE 220E BELLEVUE, WA 98004 (425) 451-4009

				SE CITY	116TH AVENUE SE FLC
				1869 Washington 1994	CONTROL FACILITIES
				EL ST	CITY OF NEWCASTLE
NO.	DATE	REVISION	BY	WCAS'	COVER SHEET, VICINITY MAP, AND SHEE

## SHEET INDEX

SHT NO	SHEET TITLE
1	COVER SHEET, VICINITY MAP, AND SHEET INDEX
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7	RESTORATION PLAN
8	DETAILS

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	PROJECT ENGINEER	DATE
	PUBLIC WORKS DIRECTOR	DATE
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116TH AVENUE SE FLOW	<b>V</b> 10-190001	05/06/2022
CONTROL FACILITIES CITY OF NEWCASTLE	SCALE	SHEET
COVER SHEET, VICINITY MAP, AND SHEET I	NDEX <sup>H:</sup> N/A <sup>V:</sup> N/A	1 of 8

## **GENERAL NOTES:**

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NEWCASTLE MUNICIPAL CODE (NMC), NEWCASTLE PUBLIC WORKS STANDARDS, AND THE CITY OF NEWCASTLE'S CONDITIONS OF APPROVAL.
- 2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE NEWCASTLE DEPARTMENT OF PUBLIC WORKS ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
- 3. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 4. CONSTRUCTION HOURS SHALL BE LIMITED IN ACCORDANCE WITH NMC; NORMALLY THIS IS 7 A.M. TO 7 P.M. ON WEEKDAYS AND 9 A.M. TO 6 P.M. ON WEEKENDS AND LEGAL HOLIDAYS.
- 5. DATUM SHALL BE NAVD 1988 UNLESS OTHERWISE APPROVE BY THE CITY.
- 6. APPLICANT IS REQUIRED TO SEND OUT "CONSTRUCTION NOTICES" TO RESIDENTS FIVE (5) DAYS PRIOR TO START OF WORK. 7. SEDIMENT AND EROSION CONTROL SHALL MEET THE REQUIREMENTS OF MOST RECENT NEWCASTLE PUBLIC WORKS
- STANDARDS, THE 2016 KING COUNTY SURFACE WATER DESIGN MANUAL, AND THE CITY ADDENDUM TO THE 2016 KCSWDM. CONTRACTOR IS REQUIRED TO PROVIDE PROTECTION OF THE CITY STORM DRAIN SYSTEM.
- 8. ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE.
- 9. PRIOR TO ANY SITE CONSTRUCTION INCLUDING CLEARING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED.
- 10. NON COMPLIANCE WITH THE REQUIREMENTS FOR EROSION CONTROLS, WATER QUALITY AND CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- 11. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER WHEN CONFLICTS EXIST BETWEEN THE PLANS AND FIELD CONDITIONS. CONFLICTS SHALL BE RESOLVED AND APPROVED BY THE CITY ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 12. THE CONTRACTOR SHALL KEEP TWO (2) SETS OF PLANS ONSITE AT ALL TIMES FOR RECORDING AS-BUILT INFORMATION; BOTH SETS SHALL BE SUBMITTED TO THE CITY ENGINEER AT COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF WORK. ENGINEERED AS-BUILT DRAWINGS IN ACCORDANCE WITH THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
- 13. SITE DISTURBANCE ON PRIVATE PROPERTY SHALL BE MINIMIZED TO THE EXTENT FEASIBLE
- 14. CONSTRUCTION LIMITS AND STORM CONVEYANCE SYSTEM GRADES SHALL BE LOCATED BY SURVEY.
- 15. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ANY AND ALL PERMITS AND REGULATIONS RELATED TO THIS PROJECT AND ANY RELEVANT CITY, STATE, AND FEDERAL PERMITS AND/OR WATER QUALITY REGULATIONS.
- 16. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR.
- 17. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL.
- 18. REQUIREMENTS FOR TYPE AND PLACEMENT OF STEEL SHEETS: MINIMUM SIZE IS 1" THICK BY 8' WIDE BY 20' LONG WITH SKID PROOF SURFACE. SHEETS ARE NOT PINNED AND COLD MIX PLACED ON EDGES. PLATES SHALL NOT BE STACKED OR HAVE EDGES GREATER THAN 1/4" VERTICALLY BETWEEN PLATES WHEN PLACED IN BIKE LANES. AREA IS TO BE KEPT CLEAN AT ALL TIMES. "STEEL PLATES AHEAD" WARNING SIGNS REQUIRED.
- 19. RESTORATION OF OPEN-CUT PAVEMENT SECTIONS SHALL MEET ALL REQUIREMENTS OF CITY OF NEWCASTLE STANDARD SPECIFICATIONS & STANDARD DETAIL DRAWING & AS DIRECTED BY CITY INSPECTION.
- 20. CONTRACTOR SHALL NOT BLOCK DRIVEWAY AND MAINTAIN ACCESS AT ALL TIME.
- 21. DRIVEWAY SHALL BE PROTECTED FROM EQUIPMENT AND MATERIAL STORAGE DAMAGE.

#### **ABBREVIATIONS:**

IE	INVERT ELEVATION
NMC	NEWCASTLE MUNICIPAL CODE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TESC	TEMPORARY EROSION AND SEDIMENT CONTRO

## **LEGEND**:

EVICTING

EXISTING		
O □ ↓ PST X ICV II ① □ ↓ ↔ ↔	SIGN POST CULVERT IRRIGATION CONTROL VALVE WATER METER POWER METER TELECOMMUNICATIONS RISER GUY ANCHOR UTILITY POLE W/UNDERGROUND CONDUIT UTILITY POLE	
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X	12"C CEDAR 12"F FIR	
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SANIT	- — — — D — — — — D — — — — D — — — — —	
STOR	M DRAIN LINE	
OVERH	-SD	
WOOD	FENCE LINE (BENC)	
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GUAR	D RAIL LINE [] []	
STOR	M LINE (PER AS-BUILTS) -SD	
SEWER	-SD	
	<u> </u>	

EXISTING RETAINING WALL ROCKERY CDDCCMU RETAINING WALL :. • · CONCRETE PAVING Δ · Δ' ASPHALT PAVING BUILDINGS ..... GRAVEL SURFACE

SIGNED KJ RAWN BY HDO HECKED BY

## **DRAINAGE NOTES:**

1. ALL FEES, BONDING, AND PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION.

## STANDARD CLEARING, GRADING AND **TEMPORARY EROSION CONTROL PLAN NOTES:**

- 1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 3. THE BOUNDARIES OF THE CONSTRUCTION LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF ORANGE PROTECTION FENCING PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE CONSTRUCTION LIMITS SHALL BE PERMITTED. THE CONSTRUCTION LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS PREVENTED.
- 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE COURSE OF CONSTRUCTION, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS.
- 6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30).
- 7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 8. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- 9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
- 10. PRIOR TO SEPTEMBER 15, ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED PRIOR TO OCTOBER 1. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY INSPECTOR THE CITY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- 11. ESC AND WATER POLLUTION CONTROL IS REQUIRED FOR THIS PROJECT PER SECTION 8-01.
- 12. ALL WORK AND MATERIALS TO BE PER CITY OF NEWCASTLE STANDARDS DETAILS.
- 13. KEEP OFF-SITE STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. ALL STREETS SHOULD BE SWEPT
- 14. ADDITIONAL ESC MEASURES MAY BE REQUIRED BY CITY INSPECTOR OR ENGINEER.
- 15. PREVENT UNFILTERED SEDIMENT LADEN WATER FROM CONSTRUCTION ACTIVITIES FROM ENTERING STORM DRAINAGE STRUCTURES OR LEAVING THE PROJECT LIMITS.
- 16. ENSURE ALL CHEMICAL OR HAZARDOUS MATERIALS ARE CONTAINED AND HANDLED APPROPRIATELY. NO CHEMICAL OR HAZARDOUS MATERIAL SHALL BE DISCHARGED TO THE STORM DRAINAGE SYSTEM.
- 17. ALL GROUND COVER IS TO REMAIN UNDISTURBED OUTSIDE OF CLEARING AREAS.
- 18. REMOVE ALL ESC AND WATER POLLUTION CONTROL BMPs AFTER THE PROJECT IS COMPLETED AND ACCEPTED BY THE CITY
- 19. WHEN WORK IS STOPPED/COMPLETED IN AN AREA, THE CITY INSPECTOR MAY REQUIRE POST-CONSTRUCTION ESC MEASURES INCLUDING SEEDING OR OTHER MEASURES.
- 20. FILL OR TEMPORARY FILL, INCLUDING COIR LOGS AND SANDBAGS, SHALL NOT BE PLACED WITHIN THE PROPOSED OHWM OF THE POND.
- 21. LOCATION OF STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONFIRMED BY THE INSPECTOR OR ENGINEER PRIOR TO INSTALLATION.
- 22. HEAVY EQUIPMENT SHALL NOT BE USE ON STEEP SLOPES FOR CLEARING AND GRUBBING.

## SURVEY NOTES:

BASIS OF BEARINGS

HORIZONTAL DATUM

NAD '83/'11 GPS HXGN SMARTNET

VERTICAL DATUM

BENCHMARKS

**ORIGINATING BENCHMARK:** 

CASE, TOP MONUMENT TO TOP RIM CASE 1.40 FEET. ELEVATION: 326.703'

**TEMPORARY BENCHMARKS:** 

TBM 'A' SET RAILROAD SPIKE ON NORTHWEST FACE OF UTILITY POLE WITH UNDERGROUND CONDUIT 5.3' NORTH OF PROPERTY LINE & 8.7'NE OF 12" FIR TREE, NEAR NORTHEAST CORNER OF SITE.

ELEVATION: 314.37'

OF SE 91ST ST INTERSECTION. ELEVATION: 360.65'

EQUIPMENT NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC 1201 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

<u>NOTES</u> THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON NOVEMBER, 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.

CONTOUR INTERVAL.

REFERENCES

- R2 THE PLAT OF BREWER ADDITION, AS RECORDED UNDER VOLUME 56 OF PLATS, PAGES 53 AND 54 UNDER RECORDING NUMBER 4627689.
- RECORDING NUMBER 20151124900031.
- 197907239003.

				CITY	116TH AVENUE SE FLOW	JOB# / DWG	DATE
						10-190001	05/06/2022
				1869 Washington 1994	CONTROL FACILITIES	SCALE	SHEET
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NO.	DATE	REVISION	BY	WCAS'	LEGEND, GENERAL NOTES, AND ABBREVIATIONS	H: N/A ∨: N/	A 2 of 8

HELD A BASIS OF BEARING OF NORTH 01°07'04" EAST ALONG THE CENTERLINE OF 116TH AVE SE

NAVD '88 PER GPS HXGN SMARTNET AS VERIFIED TO CITY OF BELLEVUE CONTROL POINT 0189

CITY OF BELLEVUE CONTROL POINT 0189. FOUND CONCRETE MONUMENT 1' DEEP WITH 3/8" BRASS PLUG WITH PUNCHMARK IN

TBM 'B' USED EXISTING 5/8" REBAR & CAP STAMPED "PACE LS 32429" AT GRADE, LOCATED AT THE SECTION LINE AND SOUTH LINE

2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION.

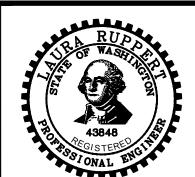
THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE

R1 THE PLAT OF C.D. HILLMAN'S LAKE WASHINGTON GARDEN OF EDEN ADDITION TO SEATTLE DIVISION NO. 6, AS RECORDED UNDER VOLUME 11 OF PLATS, PAGE 84 UNDER RECORDING NUMBER 313827.

R3 THE RECORD OF SURVEY FOR THE CITY OF RENTON, AS RECORDED UNDER VOLUME 334, PAGES 1 AND 2 UNDER

R4 THE RECORD OF SURVEY FOR DANA SORUM, AS RECORDED UNDER BOOK 11, PAGE 133 UNDER RECORDING NUMBER

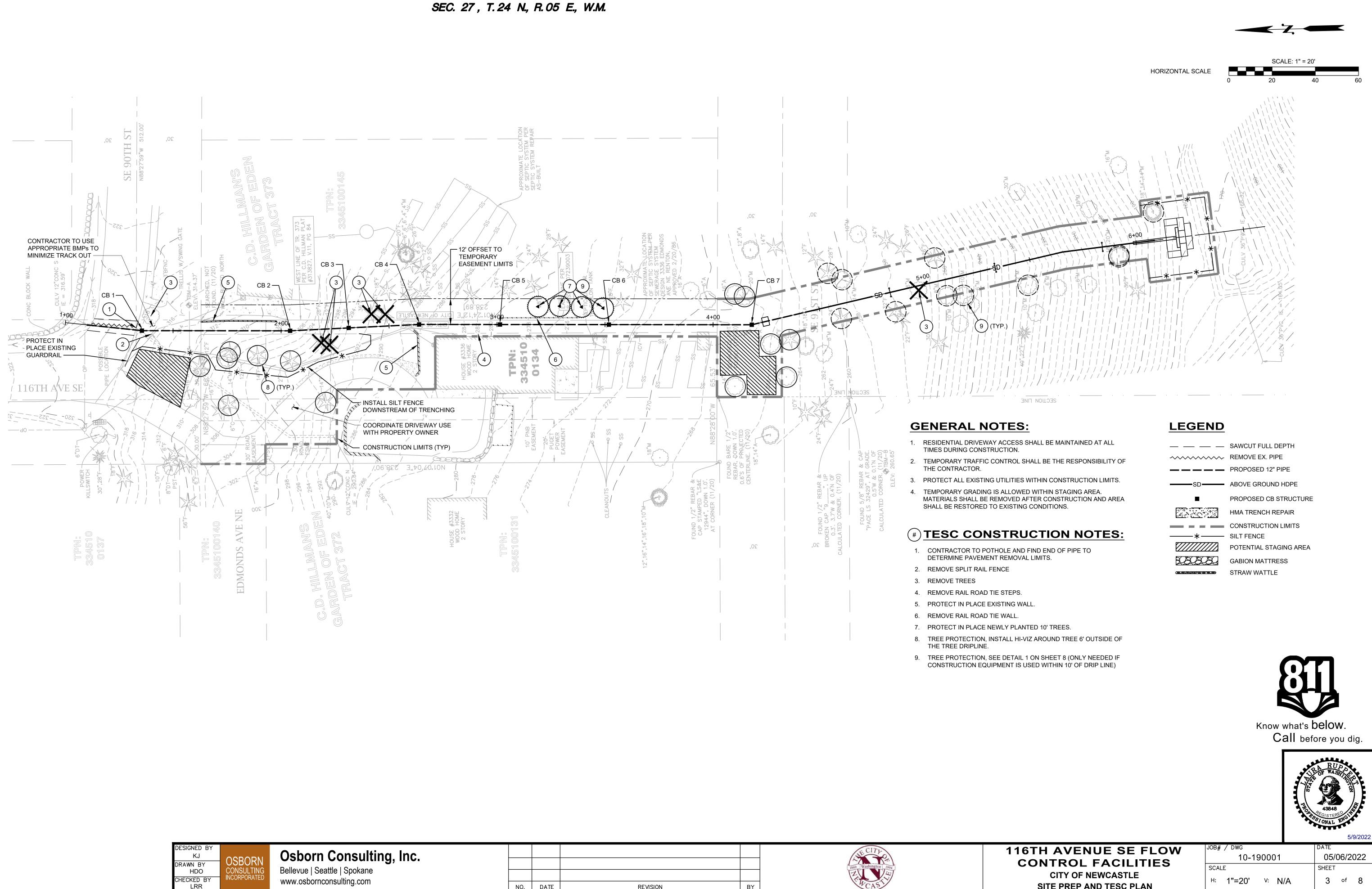




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Know what's below. Call before you dig.





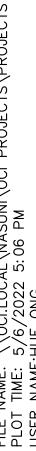
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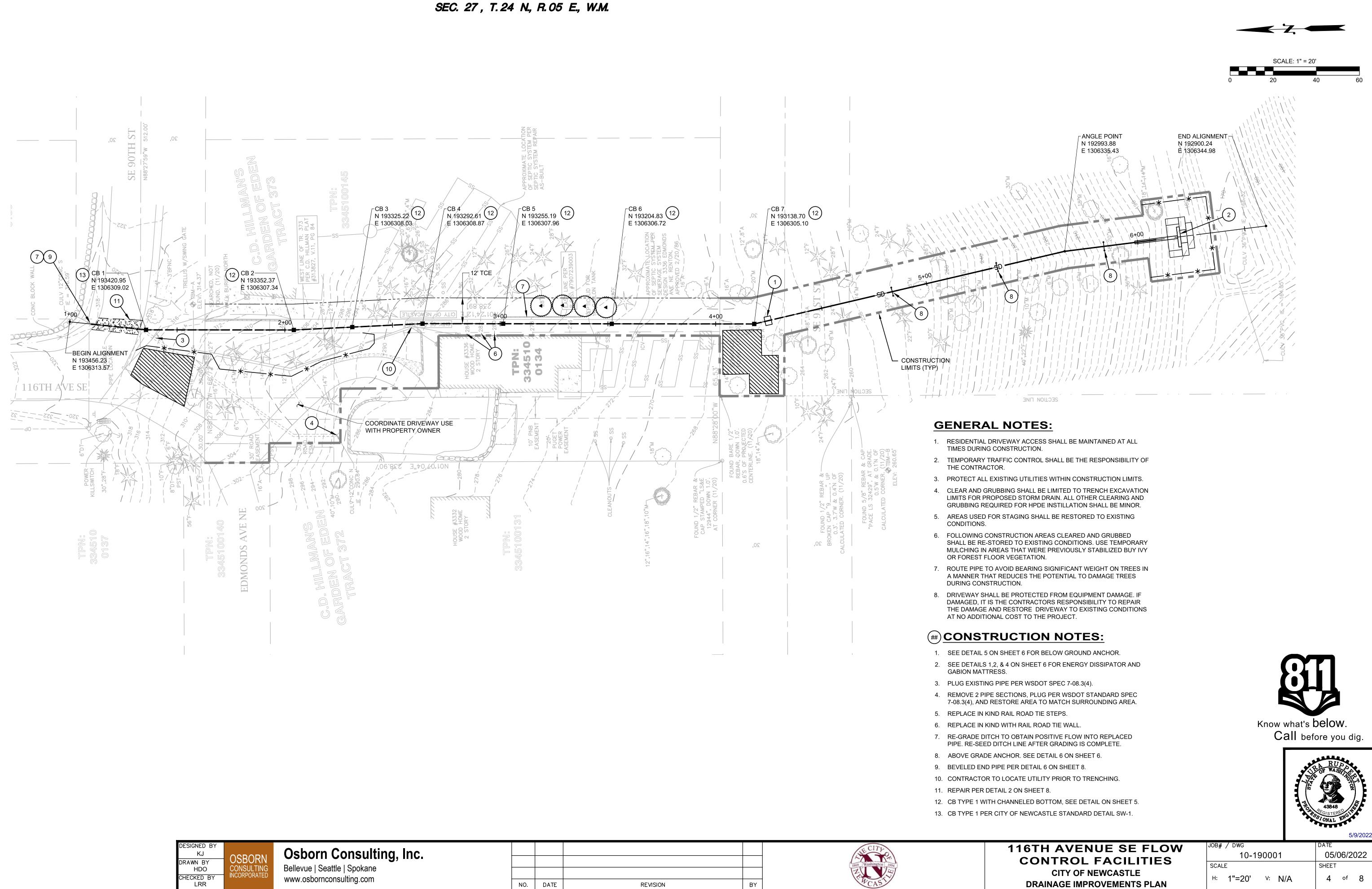
SAWCUT FULL DEPTH	
REMOVE EX. PIPE	
PROPOSED 12" PIPE	
ABOVE GROUND HDPE	
PROPOSED CB STRUCTURE	Ξ
HMA TRENCH REPAIR	
CONSTRUCTION LIMITS	
SILT FENCE	
POTENTIAL STAGING AREA	
GABION MATTRESS	
STRAW WATTLE	

## SITE PREP AND TESC PLAN

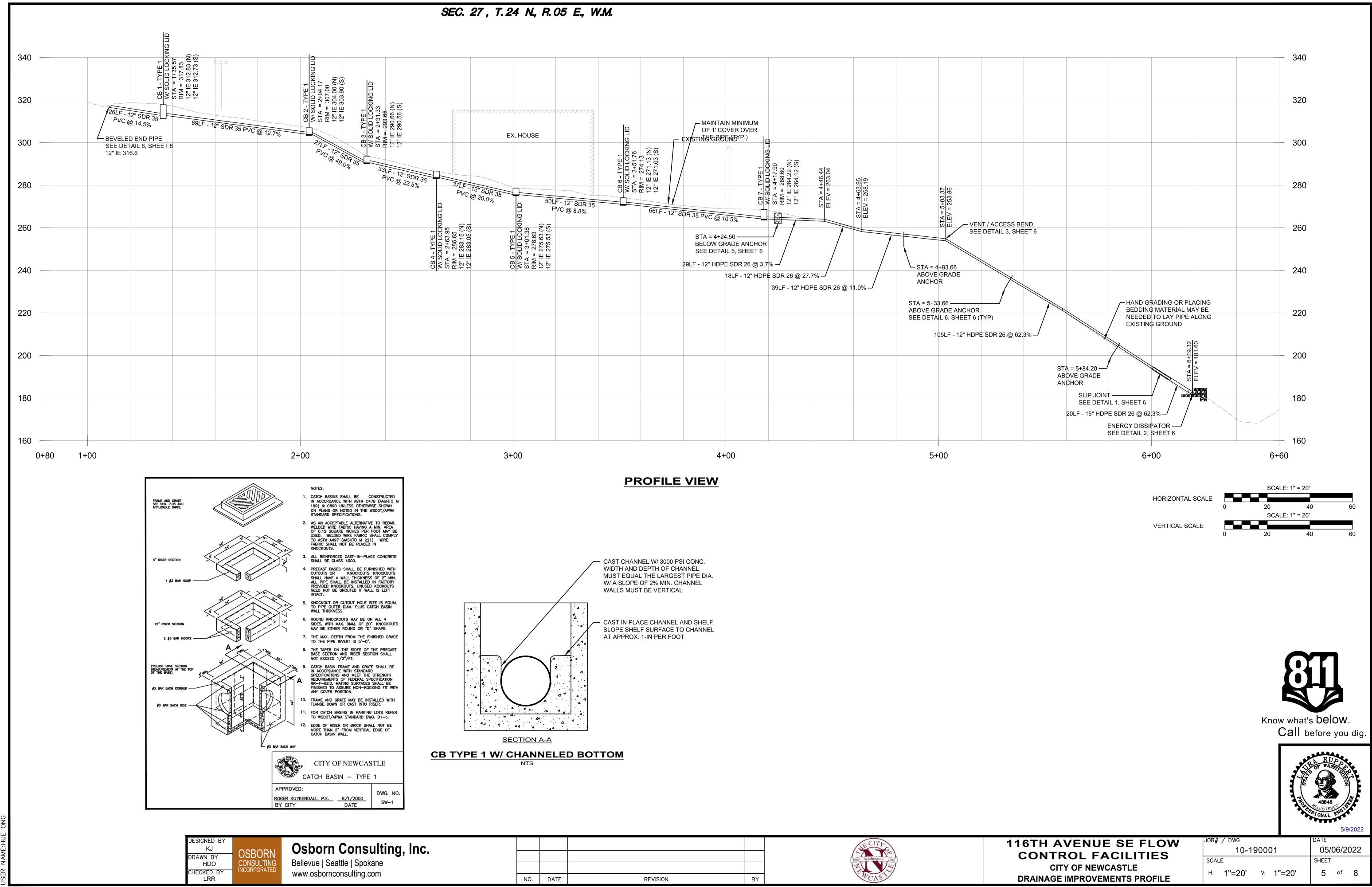
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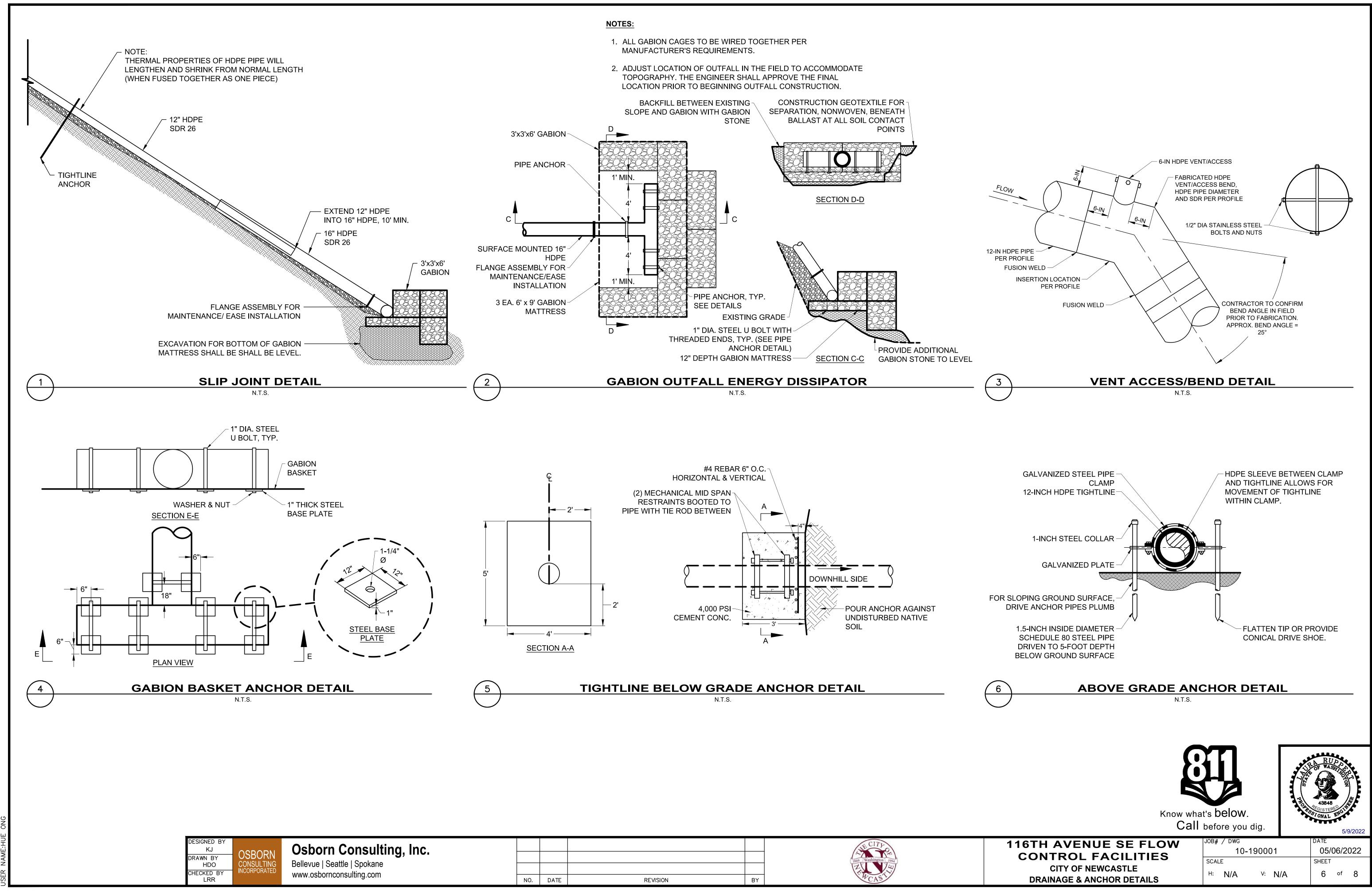


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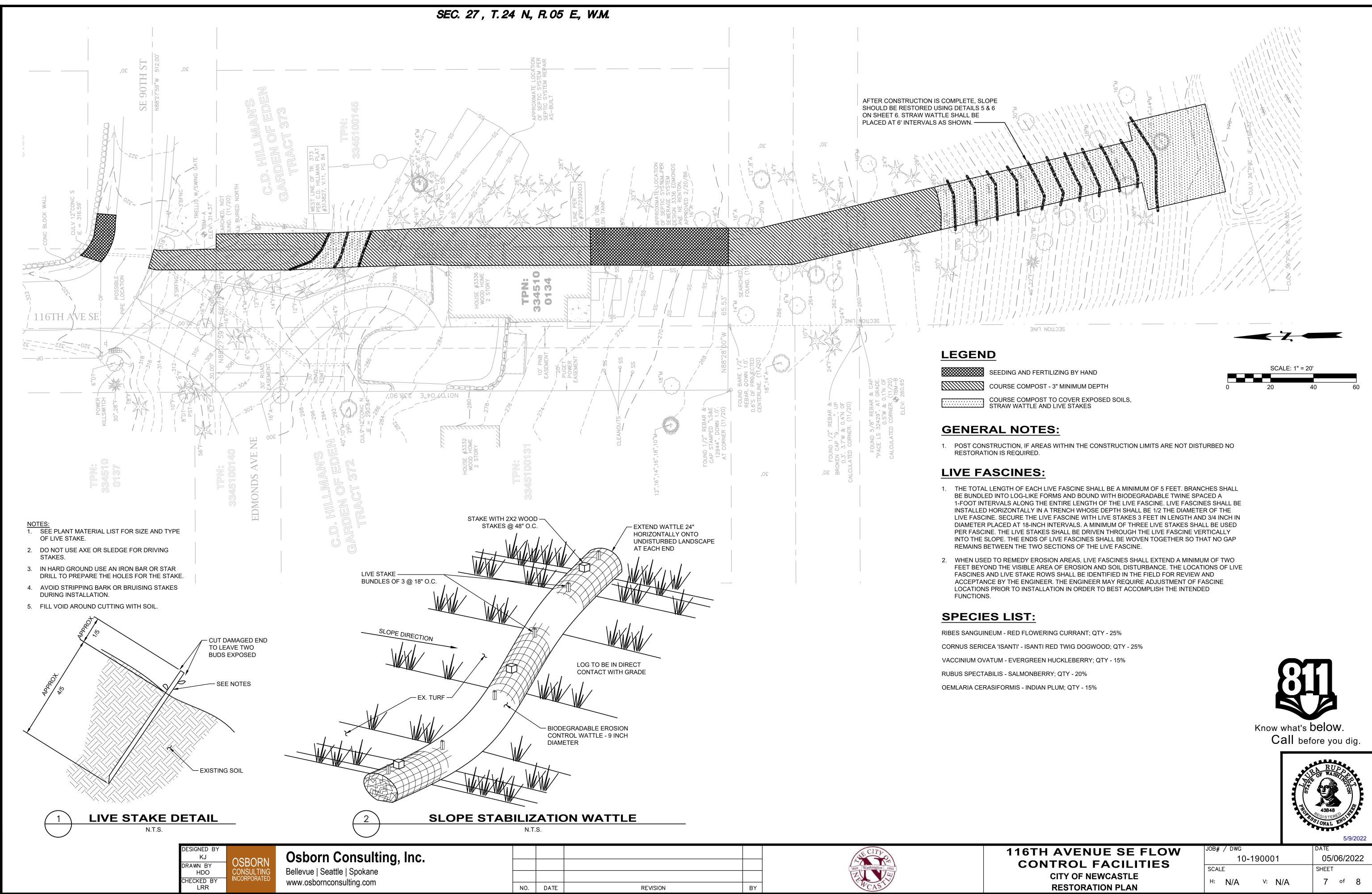


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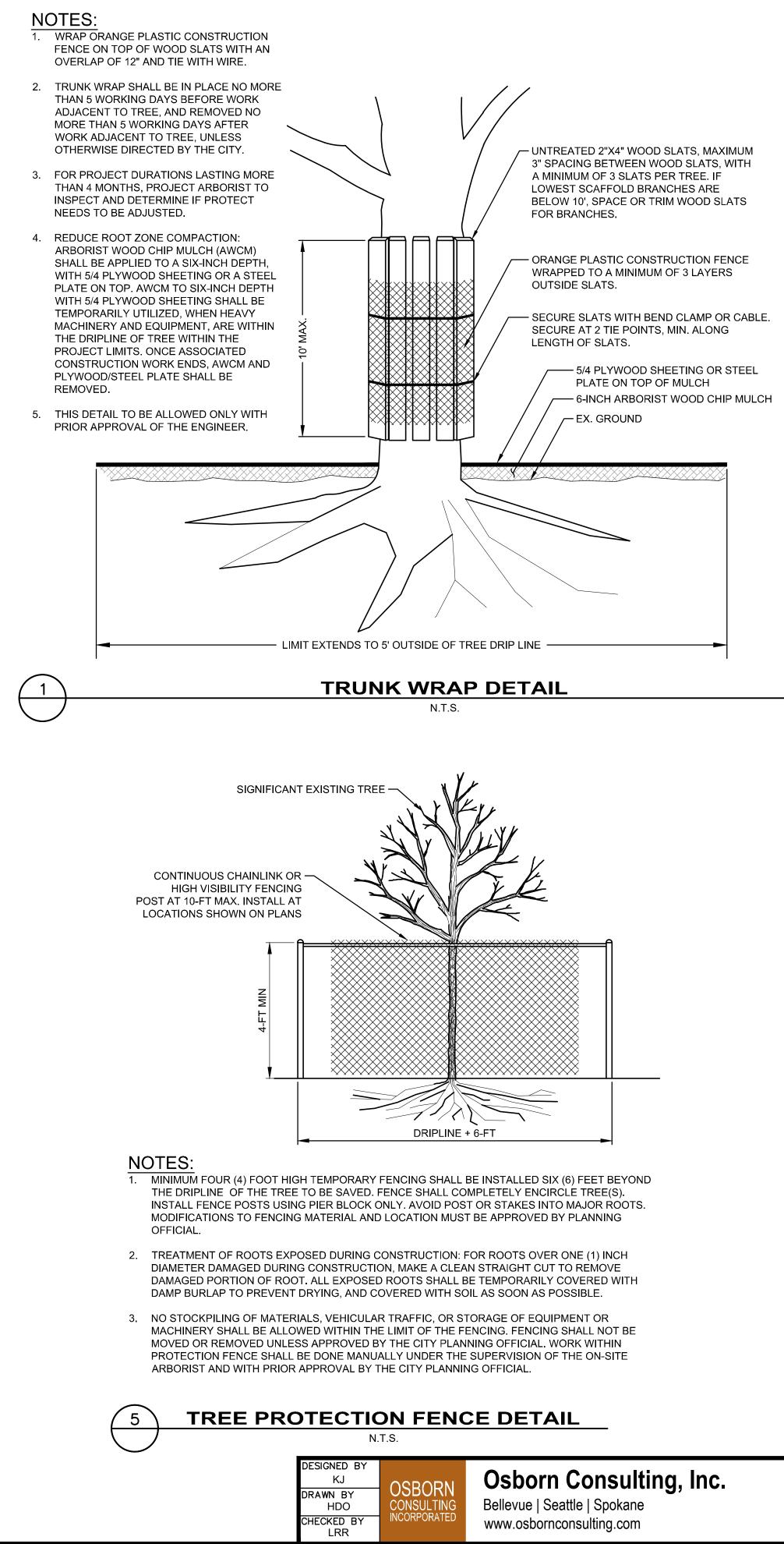


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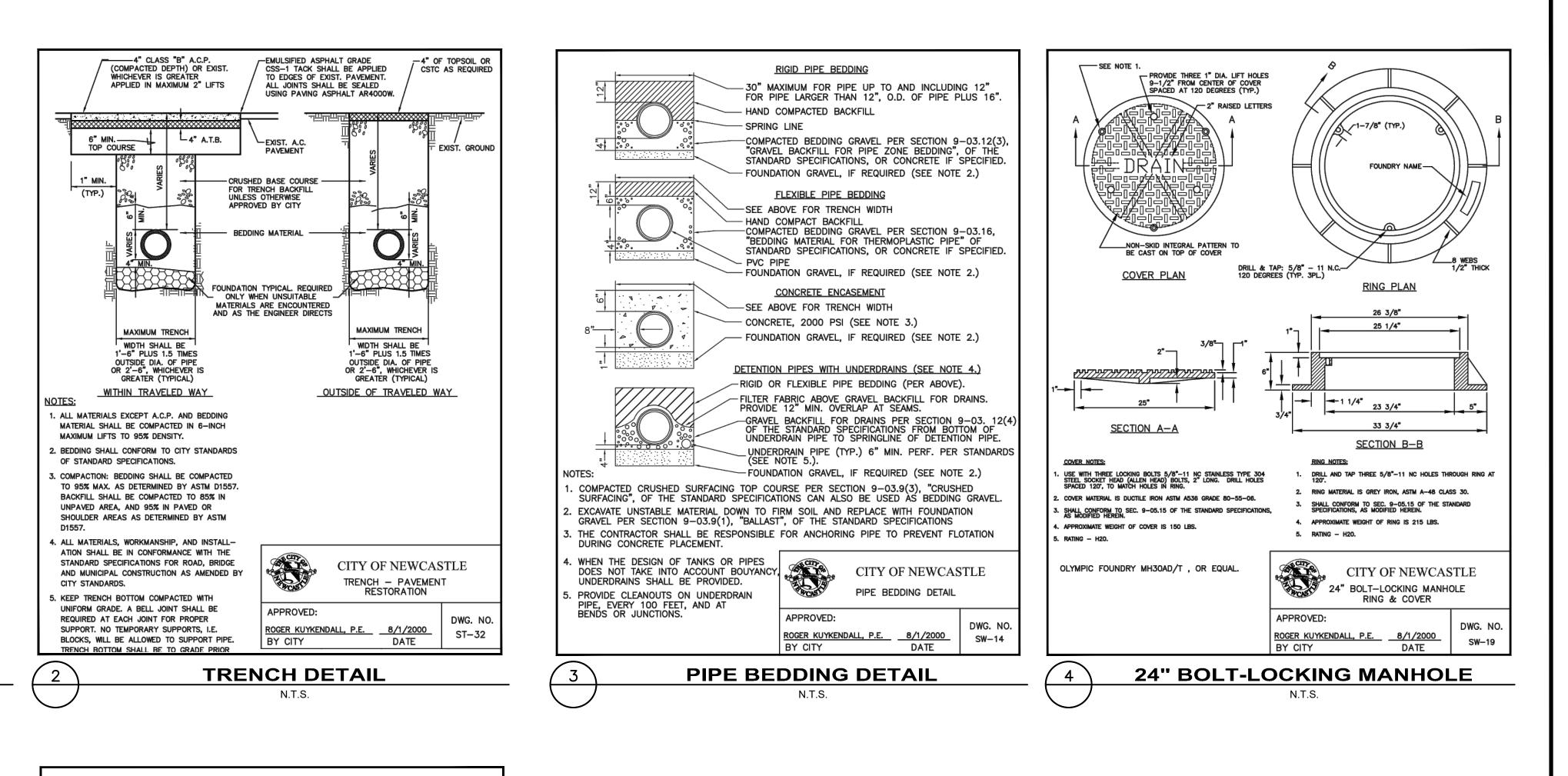
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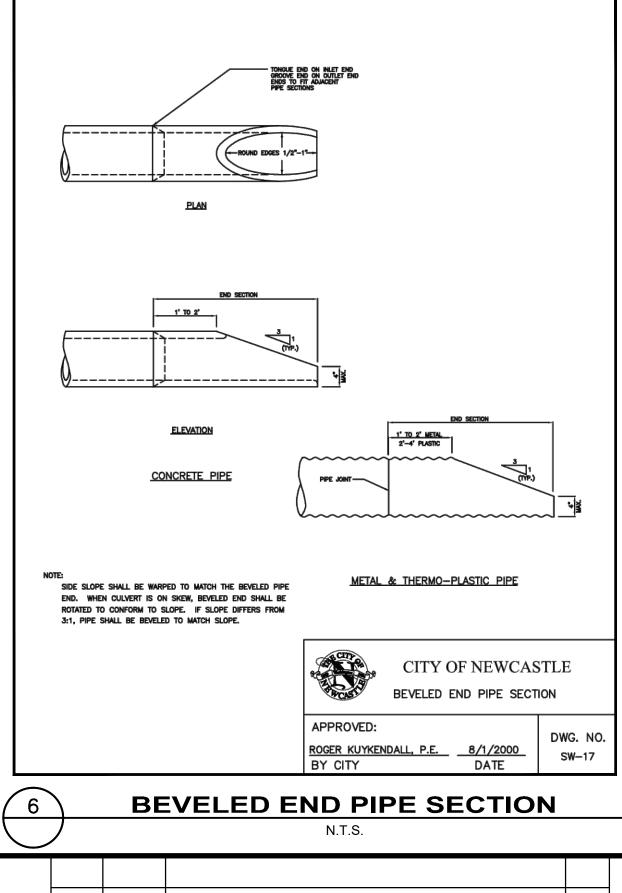
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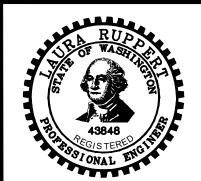
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	10-190001	05/06/2022	
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CITY OF NEWCASTLE	H: N/A V: N/A	8 of 8	
DETAILS	···· N/A ··· N/A		