

GENERAL NOTES (STORM DRAIN CONSTRUCTION)

- All workmanship and materials shall be in accordance with City of Blaine standards and the most current copy of the State of Washington Standard Specifications for Road, Bridge and Municipal Construction (VSDDT/APVA).
- Tenporary erosion/water pollution neasures shall be required in accordance with Section 1-07.15 of the Standard Specifications and the ?STDRMWATER MANAGEMENT MANUAL FOR THE PUGET SDUND BASIN (The Technical
- Comply with all other permits and other requirements by the City of Blaine or other governing authority or
- A preconstruction meeting shall be held with the City of Blaine, Engineering Department prior to the start of
- All storm mains and retention/detention areas shall be staked for grade and alignment by an engineering or surveying firm capable of performing such work.
- Storm drain pipe shall meet the following requirements:
 A. Plain concrete pipe conforming to the requirements of AASHTO M 86, Class

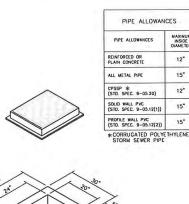
 2.
 - B. Reinforced concrete pipe conforming to the requirements of ASHTO M 170.
 - C. PVC pipe conforming to ASTM D 3034 SDR 35 or ASTM F 789 with joints and gaskets conforming to ASTM D 3212 and ASTM F477.

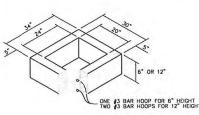
 - E. Polvethylene smooth wall pipe per Advanced Drainage Systems (ADS) N- 12 constructed per WSDDT/APWA Standard Specifications 7-04.
- Special structures, oil/water separators and outlet controls shall be installed per plans and manufacturers
- Provide traffic control plan(s) as required in accordance with MUTCD.

STORM DRAIN CONSTRUCTION

GENERAL NOTES

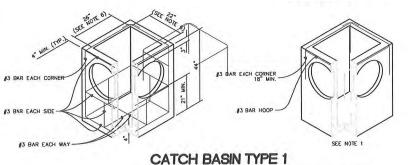
Call underground locate line 1-800-424-5555 minimum 48 hours prior to any excavations.

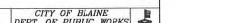


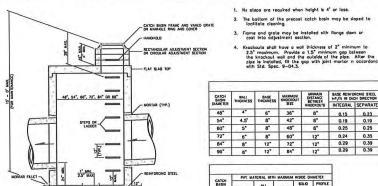


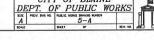
- As occeptable alternatives to the rebor shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum area. nions per 100, shall be used with the minimum required rebor shown in the ALTERNATUS PRECAST BASE SECTION. Wire mesh shall not be placed in the
- The knockout diameter shall not be greater than 20°. Knockouts shall have a wall thickness of 2° minimum to 2.5° movimum. Frowde a 1.5° movimum. Frowde a 1.5° movimum and the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortor in accordance. mortar in accordance with Standard Specification 9-04.3.
- 3. The maximum depth from the finished grade to the pipe invert shall be 5'.
- The frame and grate may be installed with the flange up or down. The frame may be cost into the adjustment section.

- All pickup holes shall be grouted full after the basin has been placed.







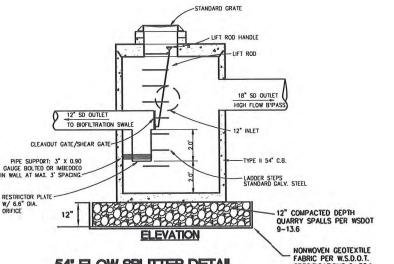


- The bottom of the precost catch basin may be sloped to localitate cleaning.
- Frame and grate may be installed with flange down or cost into adjustment section.
- Knockouts shall have a wall thickness at 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortor a occardance with Std. Spec. 9-04.3.

			acc.	KNOC	XOUTS	INTEGRAL	SEPARATE
48"	4"	6"	36"	9	6"	0.15	0.23
54"	4.5"	8"	42"	8 1.0	8*	0.19	0.19
60"	s*	8*	48"	5 5	6"	0.25	0.25
72"	6"	6"	60*	1	2"	0.24	0.35
84"	8"	12"	72"	12"		0.29	0.39
96"	8"	12°	84"	7 -	2"	0.29	0.39
CATCH	PIPC MA		н мажици		_		
CATCH BASIN DIAMETER	PIP(MA	ALL METAL	OPSSP_	SOLIO	PROFILE	1	
BASIN DIAMETER	CONCRETE	METAL	O"SSP	SOLIO MALL PVC @	PROFILE BILL PVC (1	
BASIN		ALL	OPSSP_	SOLIO	PROFILE	1	
BASIN DIAMETER 48"	CONCRETE 24°	METAL 30"	0°55° 0°24°	SOLIO WALL PVC @	PROFILE BILL PVC (1	
BASIN DIAMETER 48" 54"	24° 30°	ALL METAL 30"	24°	SOLIO WALL PVC @ 27"	PROFILE BILL PVC (30°	1	
BASIN DIAMETER 48" 54" 60"	24° 30° 36°	ALL METAL 30" 36" 42"	0°55° 0° 24° 30° 36°	SOLIO WALL PVC @ 27" 27" 36"	PROFILE BALL PVC (30° 35° 42°	1	

HIGH FLOW BYPASS 12" SD INLET -24" DIA ACCESS

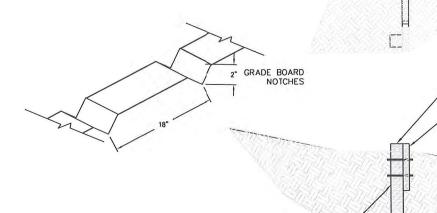
PLAN



54' FLOW SPLITTER DETAIL

The precost base section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

ALL CATCH BASIN GRATES SHALL.
 BE BOLT DOWN TYPES.



4"x4" SUPPORT POST

NOTCHED GRADE BOARD 2"x2" NOTCHES, 18" O.C

BIOFILTRATION SWALE SECTION W/ NOTCHED GRADE BOARD

CONSTRUCTION NOTES:

1. BENTOMAT CL SHALL PROVIDE CONTINUOUS IMPERMEABLE BARRIER INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE PLACED BETWEEN ECOBLOCKS AT SPILLWAY LOCATIONS.

2. PERMANENT EROSION CONTROL SHALL BE C350 BY NORTH AMERICAN GREEN OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

BY THE PROJECT ENGINEER.

MATCH EXISTING GROUND 3. TOPSOIL MATERIAL MUST BE DRY ENOUGH TO BE PLACED AND ROLLED TO CONSOLIDATE TO REMAIN IN PLACE. PLACEMENT TO BE INSPECTED AND APPROVED 1.5' MIN PERMANENT EROSION CONTROL FABRIC AND SEED MIX EXST SWALE

TYPICAL BIOFILTRATION SWALE SECTION

STAKES PENETRATING-

WITH BENTONITE CLAY

BENTOMAT SHALL BE SEALED



CARNOUSTIE - SEMIAHMOO SHEET 19 STORM DRAINAGE DETAILS DF

DRAINAGE DETAILS TES WA SEMIAHMOO AND 00 ROADWAY

/04

1

DRAWING

RECORD

4"x4" SUPPORT POST

2"X12" PRESSURE TREATED GRADE BOARD

PROJECT NUMBER:

TRLX0107 DATE: 7/17/07 DESIGN: DRAWN: CHECKED:

SCALE: AS SHOWN

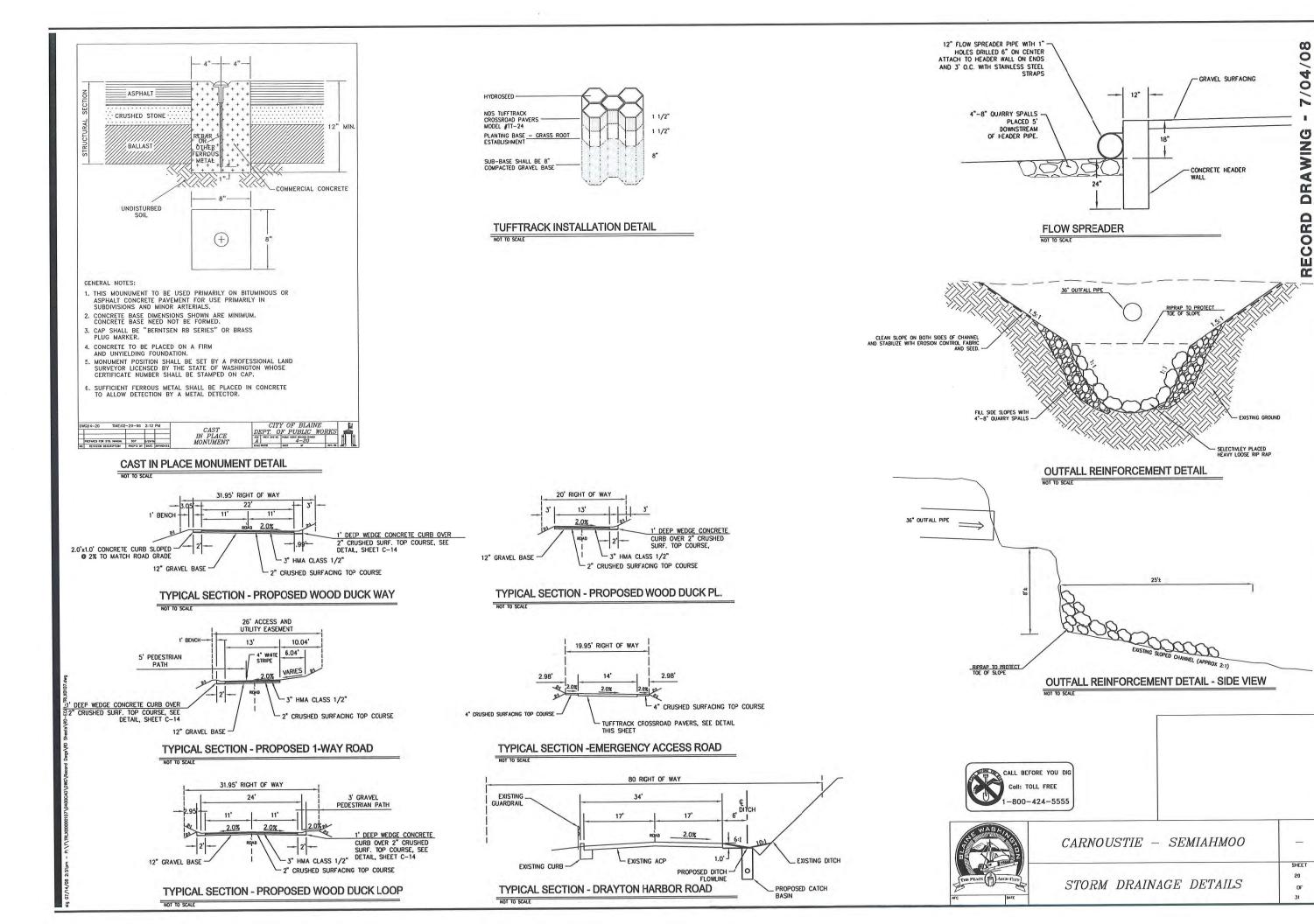
SHEET NO.

CEMENT CONCRETE GUTTER

CATCH BASIN TYPE 2

12"

TO FLOWLINE



SEMIAHMOO

CARNOUSTIE

PROJECT NUMBER: TRLX0107

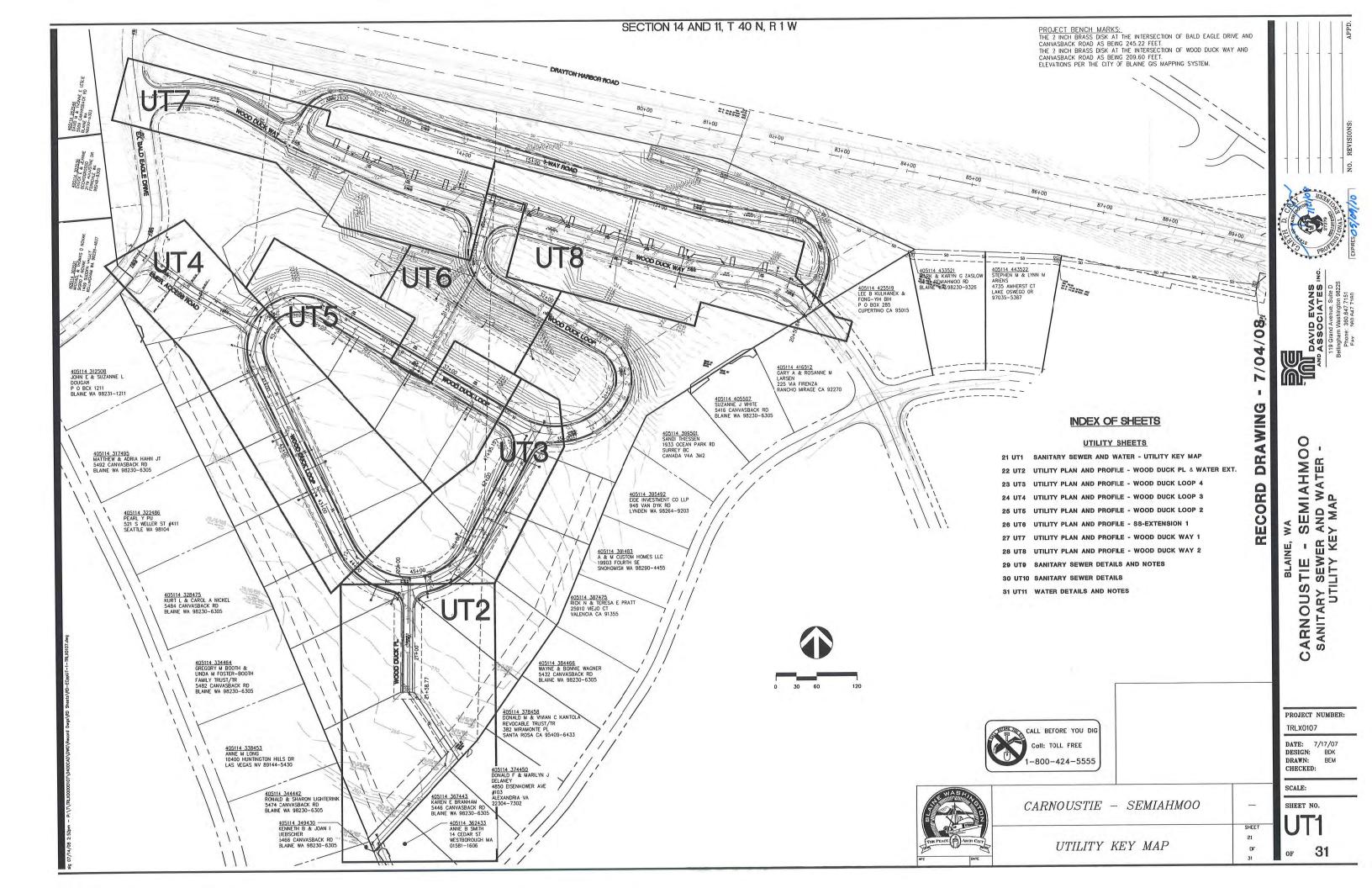
DATE: 7/17/07

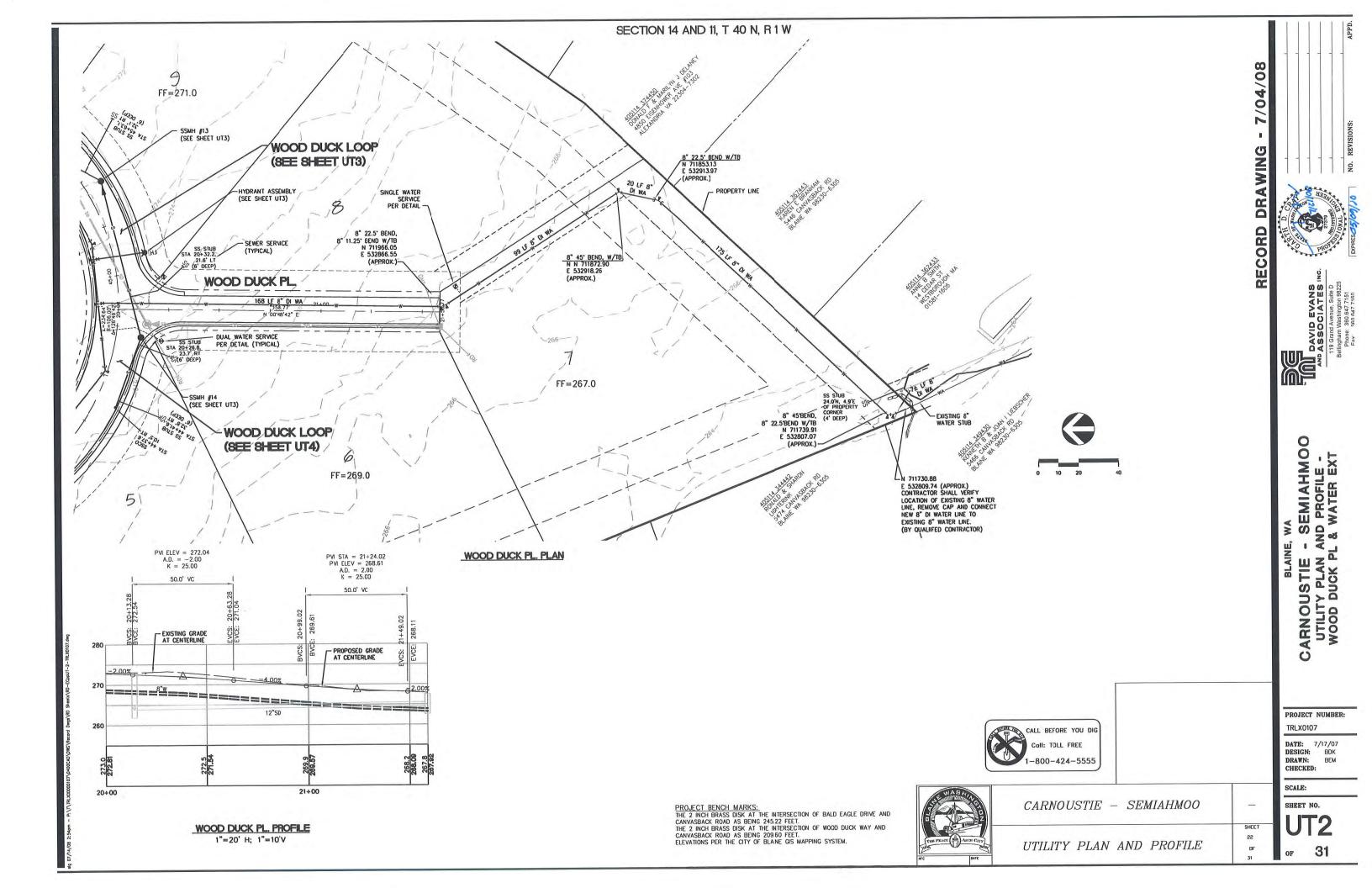
SCALE: AS SHOWN

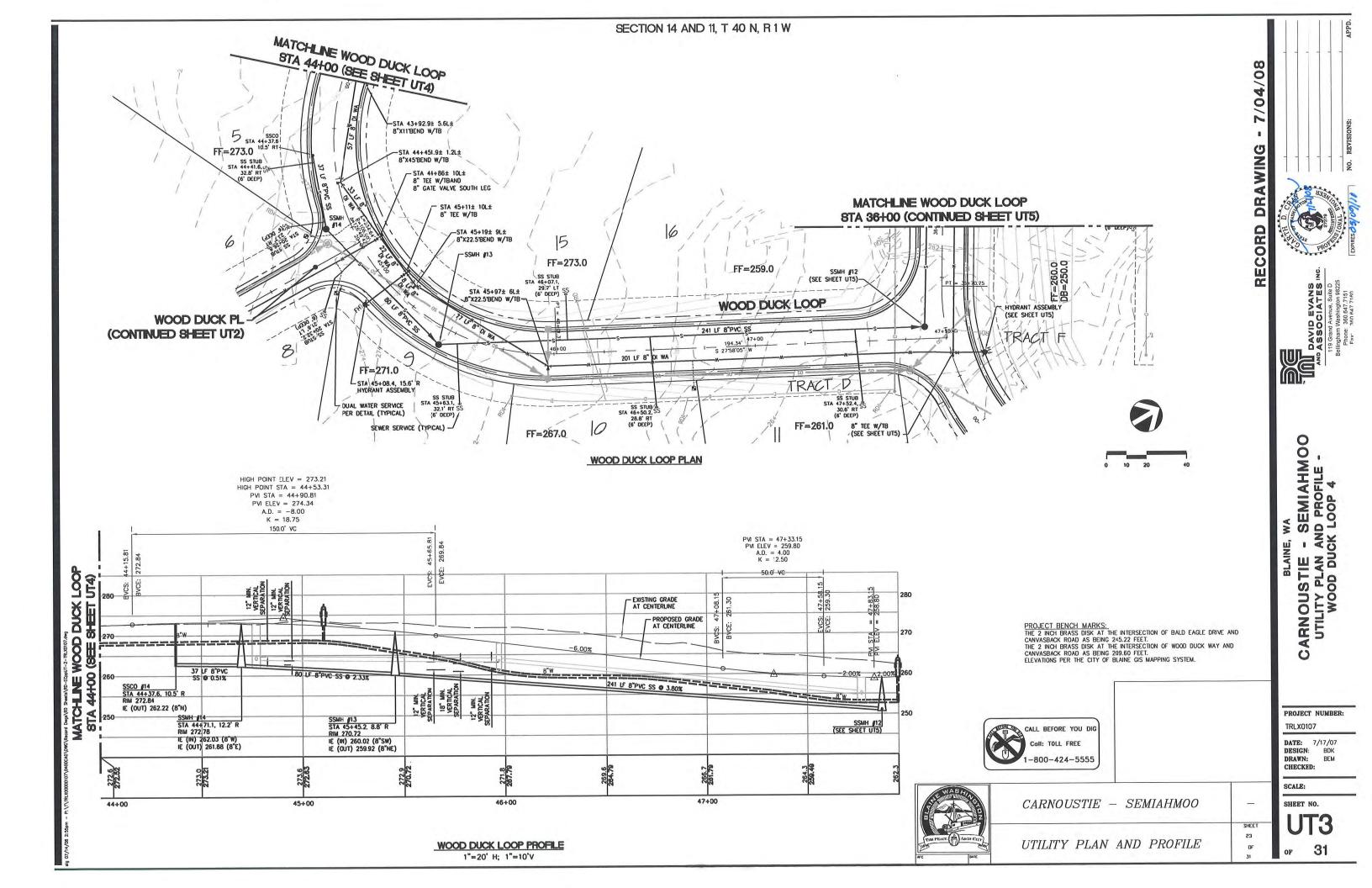
DESIGN: DRAWN:

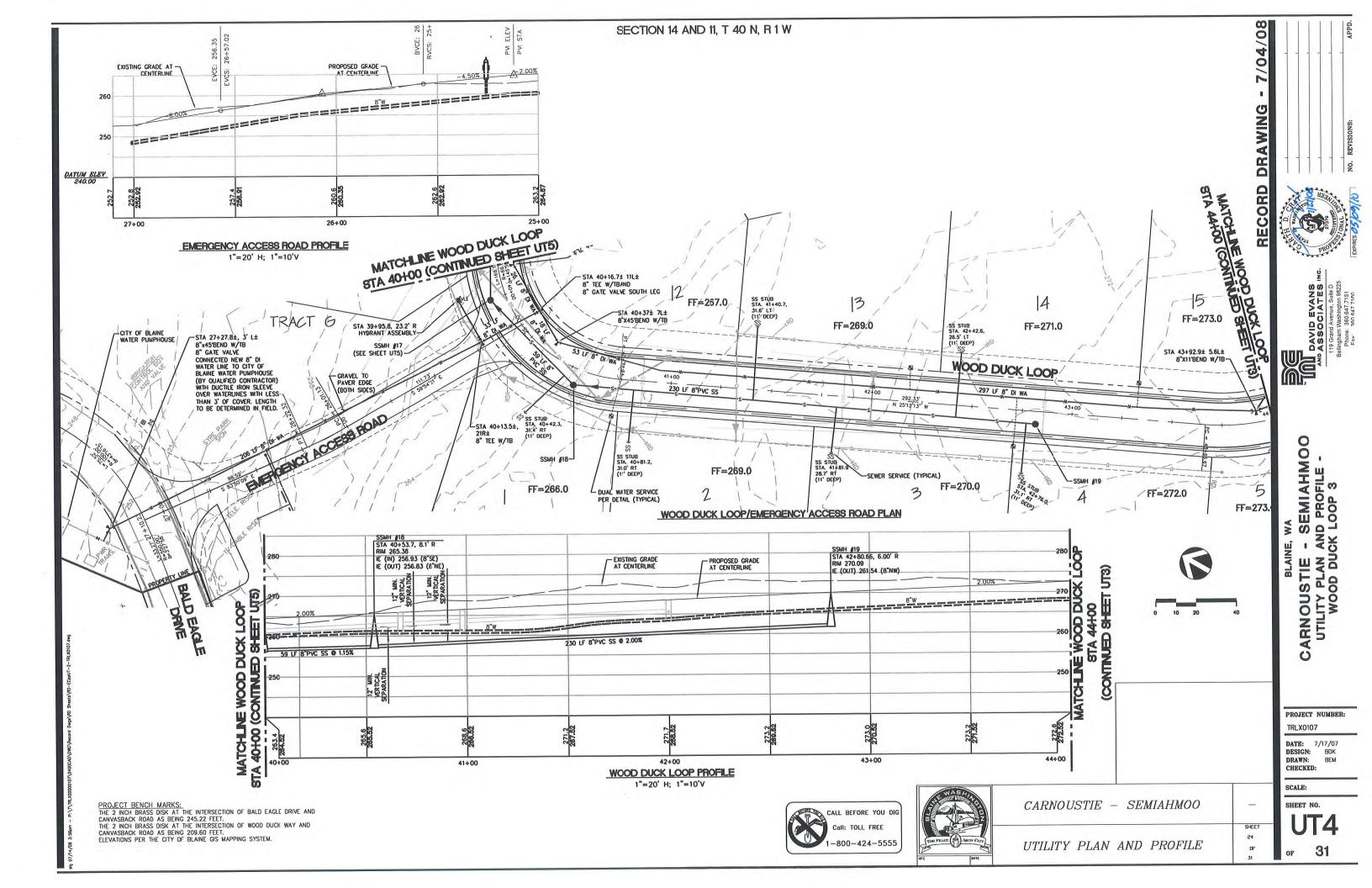
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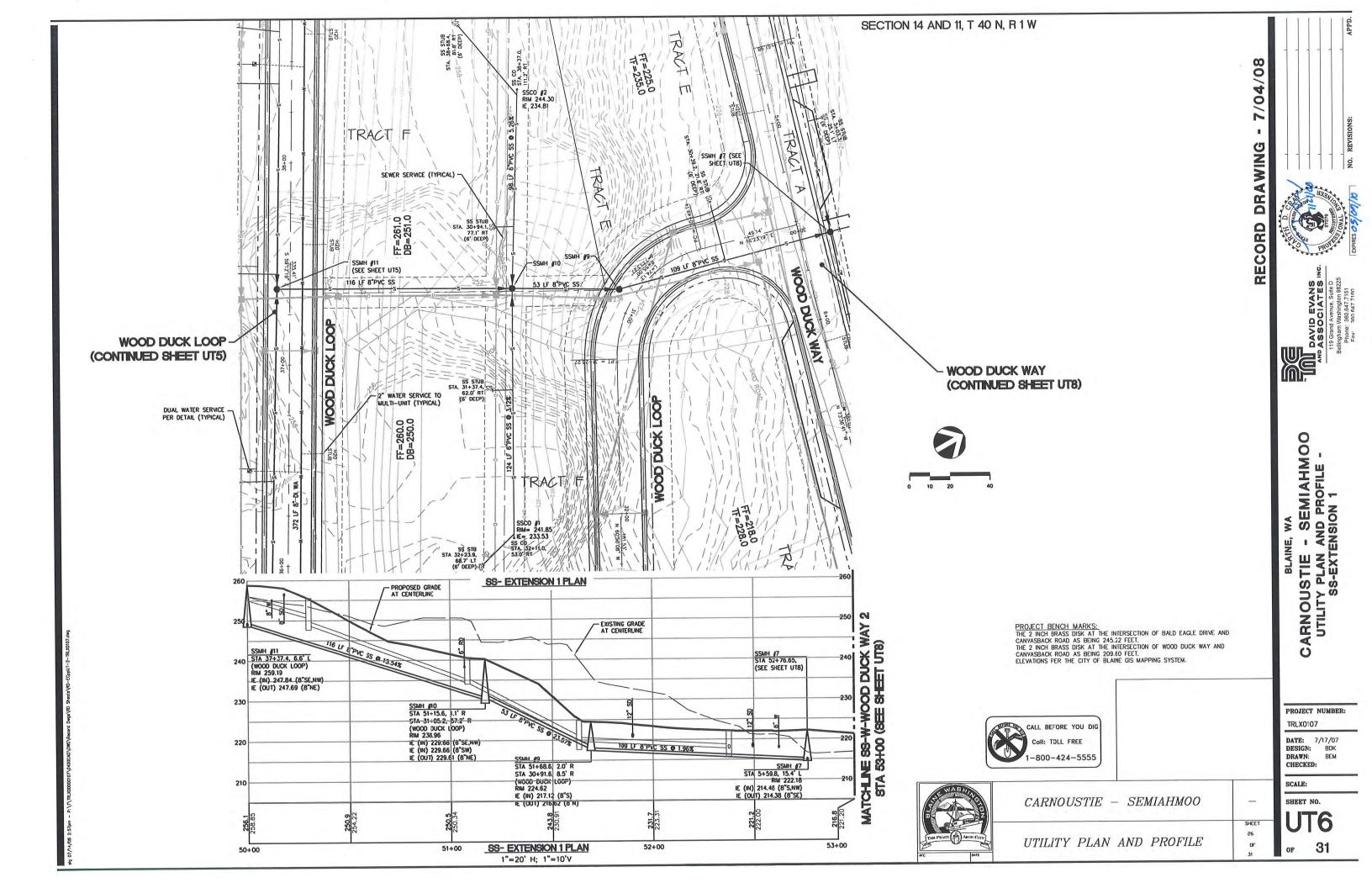
STORM DRAINAGE

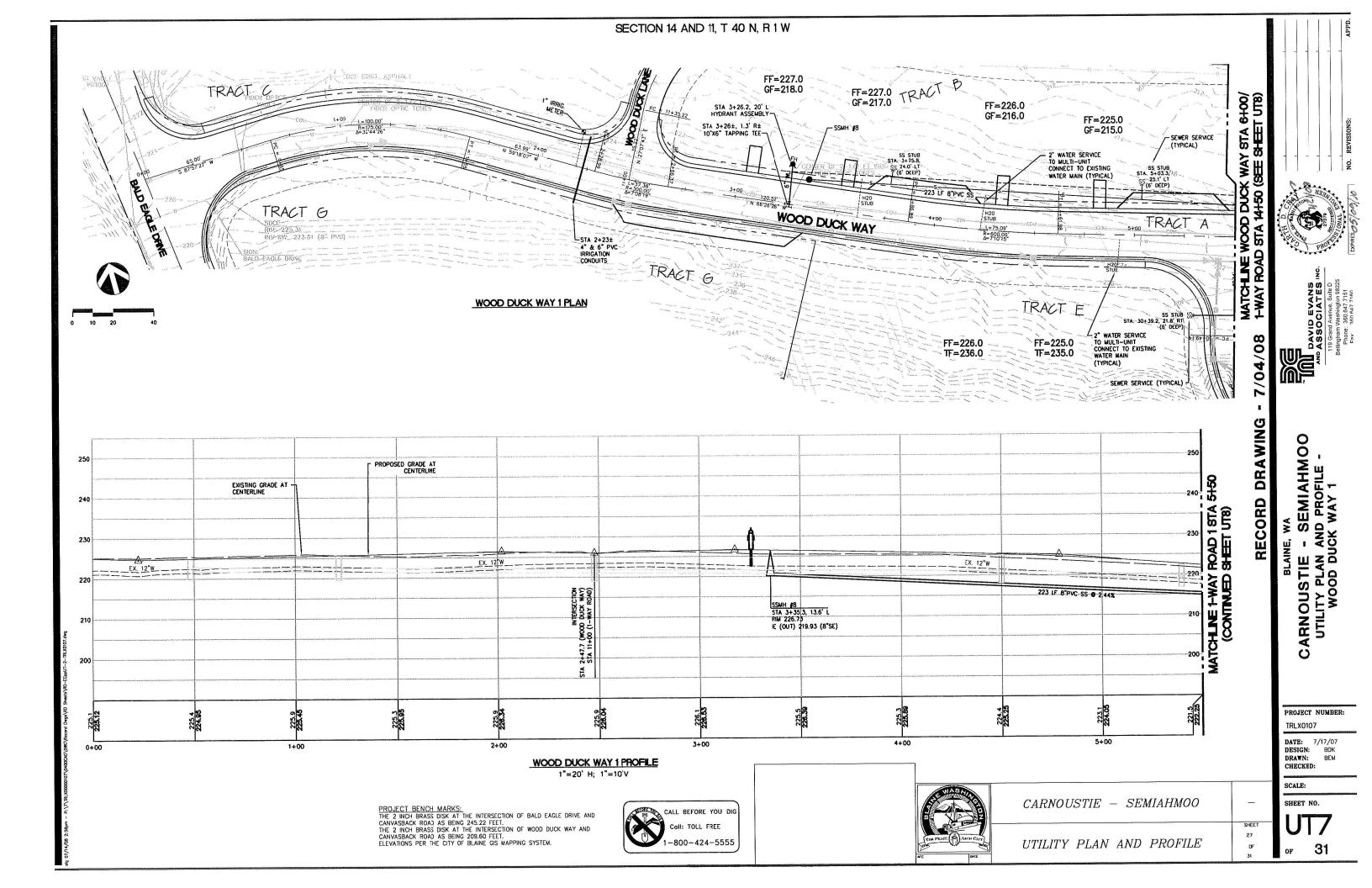


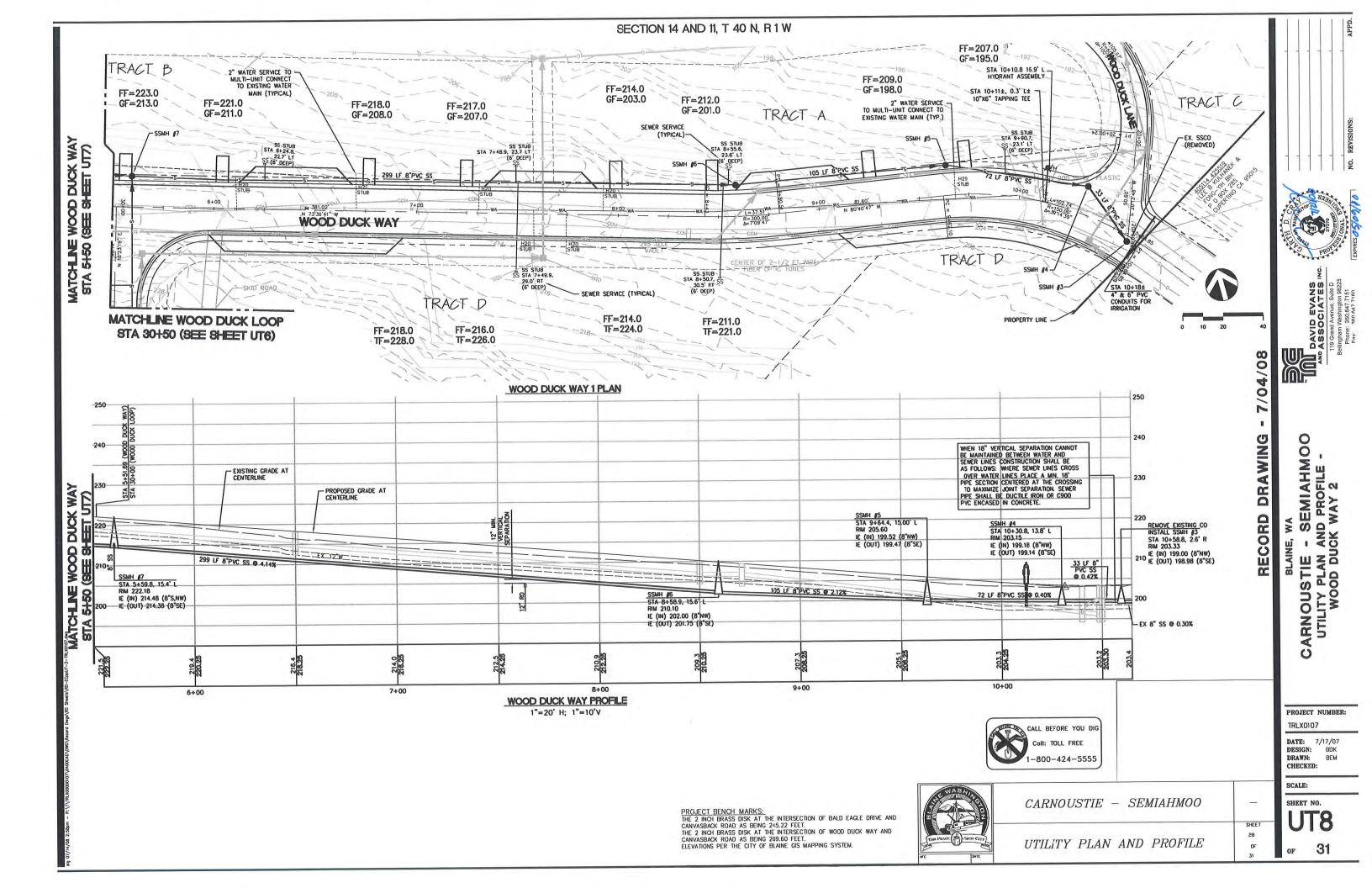












Blaine shall be obtained by the contractor prior to the start of construction. If construction is to take place in the County right-of-way, the contractor shall notify the County and obtain all the required approvals and permits. A preconstruction nesting shall be held with the City of Blaine Construction Inspector prior to the start of construction.

Construction.

The City of Blaine Construction Inspector shall be notified a nininum of 48 hours in advance of a tap connection to an existing nain. The inspector shall be present at the tine of the tap.

The contractor shall be fully responsible for the location and protection of all existing utilities. The contractor shall verify all utility locations prior to construction by calling the Underground Locate Line at 1-80-424-5555 a nininum of 48 hours prior to any excavation.

excavation.

Gravity sewer nain shall be PVC, ASTM D 3034 SDR 35 or

ASTM F789 with joints and rubber gaskets conforming to

ASRM D 3212 and ASTM F477 unless otherwise specified on

the plans.

Precast narholes shall neet the requirements of ASTM C 478. Manholes shall be Type 1-48' nanhole unless otherwise specified on the plans. Joints shall be rubber gasketed conforming to ASTM C 443 and shall be rubber gasketed conforming to ASTM C 443 and shall be grouted from the inside. Lift holes shall be grouted from the outside and inside of the nanhole. (See Note Side sewer services shall be PVC, ASTM D 3034 SIR 35 with flexible gasketed joints. Side sewer connections shall be nade by a tap to an existing nain or a tee branch from a new nain connected above the springline of the pipe.

12. All plastic pipe and services shall be installed with continuous tracer tape installed 12° to 18° under the proposed Finished subgrade. The narker shall be plastic non-biodegradable, netal core or backing narked sever which can be detected by a standard netal detector. In addition, force nains, and curvilinear severs shall be installed with 14 gauge coated copper wire wrapped around all plastic pipe, brought up and tied off at valve body. On a curvilinear sever, the wire shall be brought up, bared and wrapped three tines around the nanhole ring. Tape shall be Terra Tape "D" or approved equal. The tape and wire shall be furnished by the contractor.

The City of Blaine's Public Vorks Department Inspector shall observe placement and installation of all sewer pipe bedding naterial, creation of the requisite pipe cradle in the bedding naterial, installation and connection of the pipes thenselves, and backfill placement and conpactit or ensure compliance with City of Blaine Development Guildline and Public Vorks Standards No. 6.14. Contractor shall coordinate/schedule all observed

CENERAL MOTES: [APPLY TO ALL MANHOLES]. 1. PREMAT SECTIONS SHALL BE REINFORCED PER ASTM SPECS FOR CORRESPONDING STARE PIPE. 2. STARE PIPE. 2. STARE SHE STARE, STAR MANHAUM, REEL DETAR, 7–5. 3. STARE SHE STARE SECTION MAY BE CAST IN PLACE OF MOVABLE SAFETY ADDRESS FOR PIPE SHALL BE BLOCKED OUT AT THE THE OF CASTING OF THE ADDRESS OF SHALL BE BLOCKED OUT AT THE THE OF CASTING OF THE ADDRESS OF SHALL BE BLOCKED OUT AT THE THE PLACE FOR SHALL BE SHA CITY OF BLAINE STANDARD MANHOLE/ NEW MANHOLE ON EXISTING SEWER CITY OF BLAIME DEPT. OF PUBLIC WORKS THE NEW MANHOLE WORKS THE

STANDARD MANHOLE

- 12°, 24°,36°, 48°

BASE SECTION

PVC = CONC. MARRIOLE ADAPTER

GENERAL NOTES (SANITARY SEVER MAIN INSTALLATION)

The location of all side sewers shall be marked with a 11/4" white PVC pipe ASTM 2241 SDR 2.1 200 PSI. It shall be placed vertically at the end of the service stub and rise two feet above the finished grade level. Both ends of the pipe shall have caps glued on, and the interior shall be kept clean for the purpose of fiture dath neasurement.

Erosion control neasures shall be taken by the contractor during construction to prevent infiltration of existing and proposed storn drainage facilities and

roadways.

Provde traffic control plan(s) in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) as

Blaine.

2. All ines shall be cleaned and pressure tested prior to paving in conformance with the above referenced specifications. See note 1). Testing of the sanitary sewer nain nay include TVing of the nain by the contractor. Innediately prior to TVIng, enough water shall be run down the line so it cones out the lower narhole. A copy of the video tape shall be submitted to the City of Blaine. Acceptance of the line will be nade after the tape has been reviewed and approved by the inspector. Testing shall take place after all underground utilities are installed and conpaction of the roadway subgrade is conpleted.

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BEAUTIF - CAST IRON COVER, PER WSDOT STANDARD PLAN B-18b OR EQUAL. PAVEMENT OR FINISHED GROUND ////// 45° BEND WITH PLUG CLASS "C" CONCRETE COMPACTED BACKFILL 6" OR 8" SEWER PIPE IF LINE DEAD ENDS, INSTALL

MISCELLANEOUS

CITY OF BLAINE

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DRAWING

ECORD

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DAVID EVANS
PASSOCIATES IN
119 Grand Avenue, Suite D
Sellingham Washington 99225
From Sept 7451
From Sept 7451
From Sept 7451

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SEMIAHM DETAILS

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SPECIFICATION AMENDMENT No 1

PREPARATION DATE: 2006.10.04

EFFECTIVE DATE: 2006.10.04

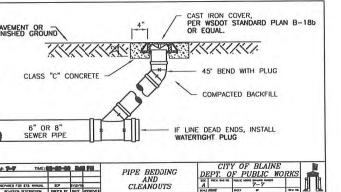
THE FOLLOWING PROVISIONS APPLY TO SUBJECT PROJECT AS OF THE EFFECTIVE DATE ABOVE, AND SUPERSEDE ANY CONFLICTING PROVISIONS IN THE CITY-APPROVED DESIGN, AND ANY PREVIOUS AMENDMENTS, FOR SUBJECT PROJECT

All underground culvert, water pipe, and sewer pipe installations shall comply with WSDOT Standard Specifications Division 7 and Section 9-03, and WSDOT Standard Plan B-11 (which supersedes City o Blaine Standard Drawing 7-7 "Pipe Bedding Classes" details), in particular as noted in the table below:

		Pip	Trench Zone				
Subject	Culvert	Storm Sewer	Sanitary Sewer	Water (< 16" diam)	Inside Road Prism	Outside Road Prism	
General	7-02	7-04	7-17	7-09	E		
Aggregate Materials		9-0	9-03.19	9-03.15			
Trench Excavation		7-08.3(1)		7-08.3(1); 7-09.3(7); 7-09.3(8)	7-08.3(1)		
Pipe Bedding		7-08.3(1)0		7-08.3(1)C 7-09.3(9)	-		
Laying Pipe		7-					
Backfilling	7-08.3(3)		7-08.3(3); 7-09.3(10)	7-08,3(3)			
Compaction		7-00.3(3)		7-08.3(3); 7-09.3(11)	7 - 50.5(5)		
Installed Pipe Testing		7-04.3(1)	7-17.3(2)	7-09.3(23)			
Pipe Disinfection				7-09.3(24); 7-15.3(1)			
Standard Plan							

and with the following modifications anc/or clarifications as noted below:

- Specification 7-08.03(3) and 7-09.3(11). Lift thickness (prior to compaction) shall not exceed
- Backfill compaction testing. Backfill compaction testing by the City is optional (at the City's discretion) at trench depths greater than 4 feet below the upper edge of the trench. Compaction testing by City is mandatory at trench depths less than 4 feet from the upper edge of the trench. Regardless of lesting protocol, the Contractor shall achieve the specified degree of the contractor.



NOTES:

1. PROPRIETARY MANHOLE STEPS AND
ALTERNATE PLASTIC LADDERS ARE ACCEPTABLE,
PROVIDED THAT THEY CONFORM TO SECTION
R, ASTM C 478 (AASHTO M 199) AND MEET
ALL WISHA REQUIREMENTS.

2. MANHOLE STEP LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL IS PROHIBITED.

DROP RUNG

MANHOLE STEP

- 3/4" RAD

ADDER RUNGS-

PREFABRICATED LADDER

12" MIN * 6 1/2"

HANDHOLD

MANHCLE STEP

GRADE RING

- #6 BARS AT 7" CENTERS BOTTOM FACE WITH 1" MIN COVER

1" CLEARANCE 1" BAR

96" TOP SLAB

*-24" 48", 54" & 60" TOP SLAB

DWGg: 7-5 TME: 02-28-96 3:19 PM

-48 ** 72" TOP SLAB





CARNOUSTIE - SEMIAHMOO

SANITARY SEWER DETAILS

SCALE: AS SHOWN

PROJECT NUMBER:

DATE: 7/17/07 DESIGN:

DRAWN:

CHECKED:

SHEET

29

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SHEET NO

CITY OF BLAINE

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SANITARY SEWER CONSTRUCTION GENERAL NOTES

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20" MAX. CONCRETE BLOCKS OR PRECAST CONC. RINGS, PRECAST RINGS MUST BE CAST WITH GROOVE TO FIELD INSTALL SAFETY STEP

(CONNECTION TO MANHOLE WITH P.V.C. PIPE REQUIRES PVC X CONC. ADAPTER)

CAST IN PLACE CHANNEL & SHELF SLOPE SHELF SURFACE TO CHANNE AT APPROX. 1/2" PER FOOT.

Bedding of the sever nain and compaction of the backfill naterial shall be required in accordance with the above nentioned specification (See note 1).
A 3 foot square x 4 Inch thick asphalt or concrete pad shall be installed around all cleanouts that are not in

shall be installed around all cleanouts that are not in a pavener area. Temporary street patching shall be allowed for as approved by the City engineer. Temporary street patching shall be provided by placement and compaction of 1 inch naximum asphalt concrete cold rix. Contractor shall be responsible for maintenance as required.

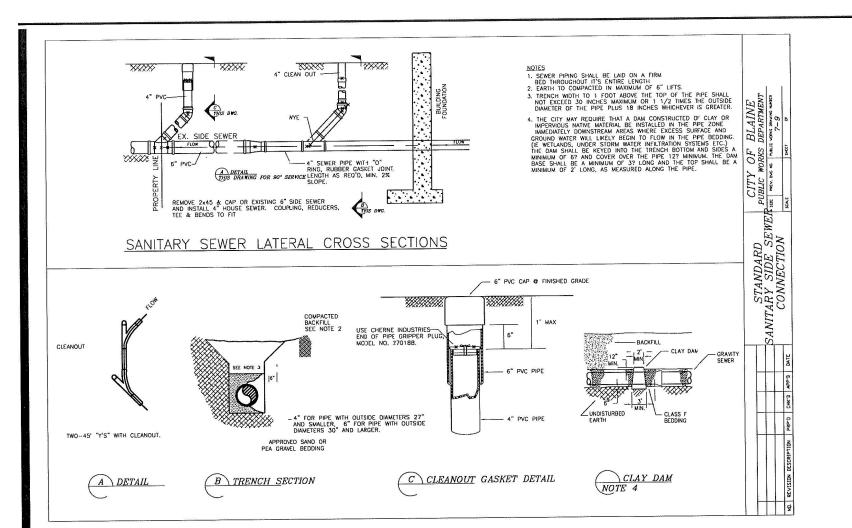
endured.

20. It shall be the responsibility of the contractor to have a copy of these approved plans on construction site at all times.

21. Any changes to the design shall first be reviewed and approved by the project engineer and the City of

the roadway supprace is composed.

Prior to backfill all nains and appurtenances shall be inspected and approved by the City of Blaine Construction Inspector. Approval shall not relieve the contractor for correction of any deficiencies and/or failures as determined by subsequent testing and inspections. It shall be the contractor's responsibility to notify the City of Blaine for the recuired inspections.







SEMIAHMOO CARNOUSTIE

TRLX0107

DATE: 7/17/07
DESIGN: 8DK
DRAWN: BEM
CHECKED:

SCALE: AS SHOWN

SHEET NO.

SHEET 30 OF





CARNOUSTIE - SEMIAHMOO SANITARY SEWER DETAILS

- A preconstruction meeting shall be held with the City prior to the start of construction.
- Water mains shall be ductile iron coment mortar lined thickness Class 50.
- thickness Loss 5U.

 Gale volves shall be resilient wedge, NRS (Non Rising Stem) with 0-rings seats. Volve ends shall be mechanical joint or ANSI (larges. Volves shall conform to AWWA 509-94. Valves shall be Mueller, M. & H. Kennedy, Clow R/W or Waterous Series 500. existing valves to be operated by City employees only. Hydrants shall be Waterous Pocer 100 Model W8-67, Clow Model F-2505 or Mueller Centurion Model A-421. Hydrants shall be bagged until system is approved. AWWA C 502-94.
- All lines shall be chlorinated and tested in conformance with the above referenced specification
- Provide traffic control plan(s) in accordance with MUTCD if applicable.
- All water moins shall be staked for grades and alignment by an engineering or surveying firm capable of performing such work.

 All service lines shall be installed perpendicular to the main and the locations shall be marked on the face of the curb with an embossed W 1/4 Inch into
- Coll Underground Locate at 1-800-424-5555 a minimum of 48 hours prior to any excavations.

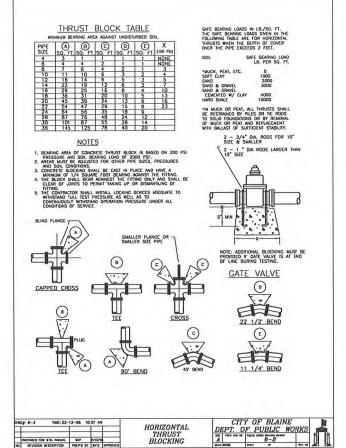
 The Developer shall coordinate with the City prior to scheduling any shutdown of the water system. Where connections require "field verification", connection points will be exposed by contractor and fittings verified 48 hours prior to distributing shut-down notices.
- 13. At any connection to an existing line where a new valve is not installed, the existing valve must be pressure tested to City standards prior to connection. If an existing valve fails to pass the test, the contractor shall make the necessary provisions to test the new
- The City of Bloine's Public Works Department Inspector shall observe placement and installation of all sewer pipe bedding material, creation of the requisite pipe cradle in the bedding material, installation and connection of the pipes thenselves, and backfill placement and compaction, to ensure compliance City of Bloine Development Guildline and Public Works Standar No. 6.14. Contractor shall coordinate/schedule all observations.

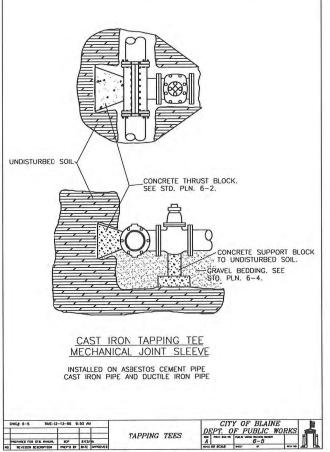
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OPTIONAL INSTALLATION

STAINLESS STEEL

- 2" BRASS PIPE

2" STREET ELL

OPTIONAL 2" GALV CAP OPTIONAL -

2" BRASS CAP

2" BRASS PIPE

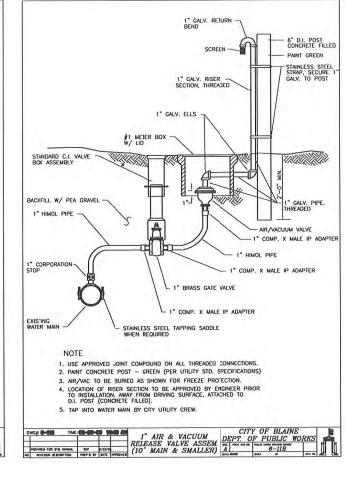
-2" C.I. GATE VALVE-IP X IP W/ 2" OPERATING NUT

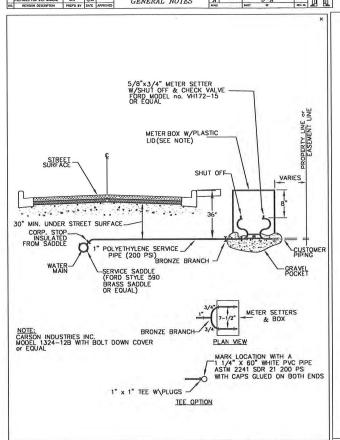
CONC. METER BOX-IN DRIVEN AREA'S ONLY.

VALVE BOX

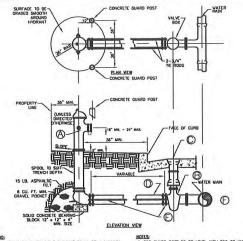
PLUG OR CAP

THRUST BLOCKS





DUAL SERVICE



TYPE A FIRE HYDRANT ASSEMBLY

. MAIN VINUYE OPENING OF THE HYDRANT SHALL BE A MINIMUM OF (5-1/4") FINE AND ONE-QUARTER INCH DUMERE PORT: ONE (4-1/2") FOUR AND ONE-HALF INCH PUMPER PORT: ONE (4-1/27) FOUR NO DOK-HALF RICH PURPLE PORT:
MAN PORT SHALK, ROLLEY DOE FOR NOH STORE ALLWHING COP. MATERIA AND ONE THE NOT STORE ALLWHING COP. MATERIA AND CORE THE NOT STORE ALLWHING COP. MATERIA AND COP. MATERIA COP. M

- TWO (2) TWO AND ONE-HALF INCH (2-1/2") HOSE PORTS WILL BE PROVIDED. ALL SHALL BE N.S.T. THREADS 1 6", OR 8", GATE VALVE, AWWA C-500, RESILENT SEAT, WEDGE GATE VALVE "O" RING STEM SEAL, MJ X FLG WITH LUGS, DEPENDENT UPON NOTE "D" SPEC'S.
- C. 1 TWO PIECE CAST IRON VALVE BOX SIMILAR TO RICH MANUFACTURING TYPE 943 OR 5" C.I. SOILS PIPE VALVE BOX EXTENSION D. 6" DUCTILE IRON PIPE, CLASS 50, UNDER 50" IN LENGTH. 8" DUCTILE IRON PIPE, CLASS 50, OVER 50" IN LENGTH.
- E. 2- 3/4" STEEL SHACKLE RODS, (COATED WITH COLD TAR EPOXY AFTER INSTALLATION) OR PACIFIC WATER WORKS HOLDING SPOOL, OR MEGA LUGS.
- F. FULL BODY TAPPING SLEEVE, C.L. OR D.I., OR HYDRANT TEE (F X NJ) G. HYDRANT COLOR SMALL FOLION THE MATIONAL FIRE CODE
 CLASSFICATION RATING.
 CLASS AA - LIGHT BLUE:
 CLASS A - CREEN:
 CLASS B - ORENICE:
 CLASS B - ORENICE:
 CLASS B - ORENICE:
 CLASS C - RED:
 500-899 GPM
 CLASS C - RED:
 500-899 GPM OR LESS EACH HYDRANT SHALL HAVE A WHITE BARREL. THE CAPS AND TOP WILL BE PAINTED ACCORDING TO MFC CODE.

- 1. TOP CUARD POST TO BE LEVEL WITH TOP OF HYDRANT.
 2. CLIARD POST INSTALLED DINLY WHEN DIRECTED.
 3. FIRE HYDRANTS
 Conform to ANNIA C502 except on herein modified
- Standard barret of the hydronis shall be a minimum of (7-1/4") seven and one-quarter inches minimum. Nazzles and operating nuts shall be identical with the owner's existing equipment or as
- Depth of clear cover over the pipe shall be three feet (3) unless larger depth or cover is required where the hydront is installed.
- Provide a sidewalk flonge and safety stem coupling which will allow hydrant barrel to separate with minimum damage. Hydront borret extension standard of manufact hydront provided.
- Hydron shall be on:

 -Wolerous Poter 100 Model W8-67.

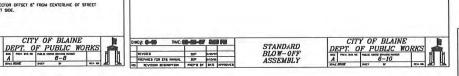
 -Clow Model F 2505.

 -Meutier Centurion Model A-421.

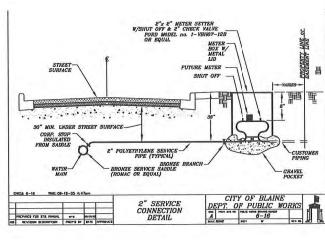
 -M&H 927 Refered.

 -or other preopproved equal

Hydront to remain togged or bagged until accepted by City.



NOTE
PLACE CONCRETE VALVE MARKER NEAR METER BOX



"CITY OF BLAINE'S PUBLIC WORKS DEPARTMENT INSPECTOR SHALL OBSERVE PLACEMENT AND INSTALLATION OF ALL WATER BEDDING MATERIALS, CREATION OF THE REQUISITE PIPE CRADLE IN THE RESPECTIVE PIPE BEDDING MATERIAL, INSTAL LATION/CONNECTION OF THE PIPES THEMSELVES, AND BACKFILL PLACEMENT AND COMPACTION, TO ENSURE COMPLIANCE WITH CTTY OF BLAINE DEVELOPEMENT GUIDELINE AND PUBLIC WORKS STANDARD NO 6.14. CONTRACTOR SHALL COORDINATE/SCHEDULE ALL OBSERVATIONS*





CARNOUSTIE - SEMIAHMOO

SHEET 31 WATER DETAILS

7/04/ DRAWING CORD RE

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DAVID EVANS

SEMIAHMOO BLAINE, WATER **ARNOUSTIE**

PROJECT NUMBER: TRI X0107 DATE: 7/17/07

DESIGN: DRAWN: BEM CHECKED:

SCALE: AS SHOWN

SHEET NO.

DF