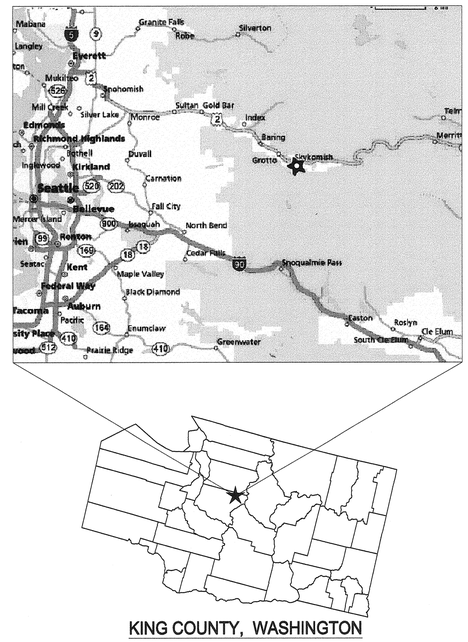
NWDZ REMEDIATION
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

VICINITY MAP



KING COUNTY, WASHINGTON

SUBMITTED TO:
THE BNSF RAILWAY COMPANY
2454 OCCIDENTAL AVE. S. SUITE #1A
SEATTLE, WASHINGTON
(206) 625-6298

PREPARED BY:
AECOM
710 SECOND AVENUE, SUITE 1000
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PREPARED BY:

AECOM

AECOM Environment

ISSUED FOR CONSTRUCTION

SHEET	SHEET TITLE	
T-100:	Cover Sheet	Rev. 0 05/15/09
T-101:	Legend	Rev. 0 05/15/09
T-102:	General Notes	Rev. 0 05/15/09
T-103:	Remediation Sequence	Rev. 0 05/15/09
C-100:	Existing Conditions	Rev. 0 05/15/09
C-101:	Site Clearing and Demolition Plan	Rev. 0 05/15/09
C-102:	Stockpile Area – Site Preparation and Erosion Control	Rev. 0 05/15/09
C-103:	Phase 1 Traffic Route and Site Preparation and Erosion Control	Rev. 0 05/15/09
C-104:	Phase 2 Traffic Route and Site Preparation and Erosion Control	Rev. 0 05/15/09
C-105:	Phase 3 Traffic Route and Site Preparation and Erosion Control	Rev. 0 05/15/09
C-106:	Phase 4 Traffic Route and Site Preparation and Erosion Control	Rev. 0 05/15/09
C-107:	Site Preparation and Erosion Control Details	Rev. 0 05/15/09
C-108:	Temporary Bridge Access Ramp	Rev. 0 05/15/09
C-200:	Clean Overburden Excavation Plan	Rev. 0 05/15/09
C-201:	Excavation Plan	Rev. 0 05/15/09
C-202:	Final Grading Plan	Rev. 0 05/15/09
C-203:	Excavation Cross Sections	Rev. 0 05/15/09
C-204:	Excavation Cross Sections	Rev. 0 05/15/09
C-205:	Excavation Control Points	Rev. 0 05/15/09
C-300:	Fifth Street Utilities Crossing: Plan and Section	Rev. 0 05/15/09
C-301:	Fifth Street Utilities Crossing: Geotechnical Instrumentation	Rev. 0 05/15/09
C-302:	Fifth Street Utilities Crossing: TYP Detail Geotechnical Instrumentation and Casing	Rev. 0 05/15/09
C-400:	Typical Roadway Sections: Fourth Street	Rev. 0 05/15/09
C-401:	Typical Roadway Sections: East River Drive	Rev. 0 05/15/09
C-402:	Typical Roadway Sections: Fifth Street	Rev. 0 05/15/09
C-403:	Typical Roadway Sections: Railroad Avenue	Rev. 0 05/15/09
C-404:	Typical Roadway Sections: Railroad Avenue	Rev. 0 05/15/09
C-405:	Typical Roadway Sections: Railroad Avenue	Rev. 0 05/15/09

SHEET	SHEET TITLE	
C-406:	Roadway Details	Rev. 0 05/15/09
C-407:	Roadway Details	Rev. 0 05/15/09
C-408:	Water Details	Rev. 0 05/15/09
C-409:	Water Details	Rev. 0 05/15/09
C-410:	Storm Drain Details	Rev. 0 05/15/09
C-410A	Miscellaneous Details	Rev. 0 05/15/09
C-411:	Site Preparation Plan 4th & E. River & 5th Streets	Rev. 0 05/15/09
C-412:	Site Preparation Plan Fifth & Sixth Streets	Rev. 0 05/15/09
C-413:	Roadway & Storm Plan and Profile: Fourth Street	Rev. 0 05/15/09
C-414:	Roadway & Storm Plan and Profile: East River Drive	Rev. 0 05/15/09
C-415:	Roadway & Storm Sewer Plan and Profile: Fifth Street	Rev. 0 05/15/09
C-416:	Roadway & Storm Sewer Plan and Profile: Sixth Street	Rev. 0 05/15/09
C-417:	Roadway & Storm Sewer Plan and Profile: Sta 104+50 to Sta 108+70	Rev. 0 05/15/09
C-418:	Roadway & Storm Sewer Plan and Profile: Sta 108+70 to Sta 112+50	Rev. 0 05/15/09
C-419:	Roadway & Storm Sewer Plan and Profile: Sta 112+50 to Sta 116+50	Rev. 0 05/15/09
C-420:	Utility Plan: Fourth Street	Rev. 0 05/15/09
C-421:	Utility Plan: East River Drive	Rev. 0 05/15/09
C-422:	Utility Plan: Fifth Street	Rev. 0 05/15/09
C-423:	Utility Plan: Sixth Street	Rev. 0 05/15/09
C-424:	Channelization Plan: Fourth Street	Rev. 0 05/15/09
C-425:	Channelization Plan: East River Drive	Rev. 0 05/15/09
C-426:	Channelization Plan: Fifth Street	Rev. 0 05/15/09
C-427:	Channelization Plan: Sixth Street	Rev. 0 05/15/09
C-428:	Channelization Plan: Railroad Avenue Sta 105+00 to Sta 108+50	Rev. 0 05/15/09
C-429:	Channelization Plan: Railroad Avenue Sta 108+50 to Sta 112+50	Rev. 0 05/15/09
C-430:	Channelization Plan: Railroad Avenue Sta 112+50 to Sta 116+50	Rev. 0 05/15/09
C-500:	Sanitary Sewer Plan and Profile: Fourth Street North	Rev. 0 05/15/09
C-501:	Sanitary Sewer Plan and Profile: Fifth Street North (East Side)	Rev. 0 05/15/09

SHEET	SHEET TITLE	
C-502:	Sanitary Sewer Plan and Profile: River Drive East	Rev. 0 05/15/09
C-503:	Sanitary Sewer Plan and Profile: Fifth Street North West Side	Rev. 0 05/15/09
C-504:	Sanitary Sewer Plan and Profile: Sixth Street North	Rev. 0 05/15/09
C-505:	Sanitary Sewer Plan and Profile: E. Railroad Ave.	Rev. 0 05/15/09
C-506:	Residential Septic Tanks	Rev. 0 05/15/09
C-507:	Dual 1500 Gallon Septic Tanks in Series	Rev. 0 05/15/09
C-508:	Miscellaneous Sewer Details	Rev. 0 05/15/09
C-509:	Miscellaneous Sewer Detail and Table	Rev. 0 05/15/09
C-600	US Forest Service Compound Fencing	Rev. 0 05/15/09
CURRENT DATE	05/15/09	

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LEGEND:

SURFACE FEATURES:

- EXISTING BUILDING
- RELOCATED BUILDING
- RAILROAD TRACK
- EXISTING CURB/PAVEMENT/SIDEWALK
- EXISTING GRADE CONTOUR 5' INTERVAL
- EXISTING GRADE CONTOUR 1' INTERVAL
- BNSF PROPERTY LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED TEMPORARY CONSTRUCTION FENCE WITH SILT FENCE
- EXCAVATION LIMIT
- WETLANDS BOUNDARY
- RIVER/CREEK EDGE OF WATER
- PROPOSED EXCAVATION ELEVATION CONTOUR 5' INTERVAL
- PROPOSED EXCAVATION ELEVATION CONTOUR 1' INTERVAL
- EXISTING SHEET PILE
- EXISTING HYDRAULIC CONTROL CONTAINMENT (HCC) WALL
- EXISTING MECHANICALLY STABILIZED EARTH (MSE) WALL
- PROPOSED MECHANICALLY STABILIZED EARTH (MSE) WALL
- JERSEY BARRIER
- GUARD RAIL
- BUILDING STATUS CONTINGENT ON ACCESS AGREEMENT
- BUILDING TO BE RELOCATED
- BUILDING TO BE DEMOLISHED
- TRAFFIC ROUTE/OPEN ROADWAYS
- SOIL HANDLING AREA

SYMBOLS:

- MONITORING WELL
- SURVEY CONTROL POINT
- MARKER LOCATION
- RW-12 GROUNDWATER TREATMENT SYSTEM RECOVERY WELL
- IW-01 GROUNDWATER TREATMENT SYSTEM INJECTION WELL
- SP-3 2008 SHEET PILE LOCATION
- MSE-03 2008 MSE WALL LOCATION
- EL-15 EXCAVATION LIMIT CONTROL POINT
- 252 EXCAVATION CONTROL POINT

UTILITY FEATURES:

- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- HOSE BIB
- ELECTRIC METER
- GAS VALVE
- OFC OIL FILLER CAP
- STORM DRAIN MANHOLE
- CATCH BASIN
- SEPTIC SYSTEM/ SANITARY SEWER MANHOLE
- SEPTIC SYSTEM CLEANOUT
- Vent Pipe SEPTIC SYSTEM VENT
- UTILITY POLE
- UTILITY POLE GUIDE WIRE
- UTILITY POLE W/LIGHT
- ELECTRIC MANHOLE
- TRB TELEPHONE RISER BOX
- JUNCTION BOX
- BURIED FIBER OPTIC
- INTEGRATED UNMANNED TRAFFIC SIGNAL
- Septic Vault BELOW GROUND STRUCTURE
- PROPANE GAS TANK
- BOLLARD
- S SETTLEMENT MONITORING POINT

- EXISTING OVERHEAD TELEPHONE UTILITY
- EXISTING WATER UTILITY
- TEMPORARY WATER UTILITY BYPASS
- EXISTING GAS UTILITY
- EXISTING ELECTRIC OVERHEAD UTILITY
- EXISTING ELECTRIC UNDERGROUND UTILITY
- EXISTING UNDERGROUND ELECTRIC POWER UTILITY
- EXISTING JOINT UTILITY TRENCH
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- SIDE SEWER
- OVERHEAD CABLE
- UNDERGROUND CABLE

ABBREVIATIONS:

FMC-	FORMER MALONEY CREEK
HCC-	HYDRAULIC CONTROL CONTAINMENT
MSE-	MECHANICALLY STABILIZED EARTH
NWDZ-	NORTH WEST DEVELOPED ZONE

HORIZONTAL & VERTICAL CONTROL

1. HORIZONTAL DATUM: NAD 83/91
2. VERTICAL DATUM: NAVD 88
3. BENCHMARK: KING COUNTY MONUMENT STAMPED "1995 GPS 8823" WITH THE PUBLISHED ELEVATION OF 931.73. (CP #117 ON C-100.)

NOTES

1. SITE PLAN IS BASED ON 2007 SURVEY DATA PROVIDED BY TRUE NORTH LAND SURVEYING, INC., DATED 12/10/2007.
2. PROPERTIES AND AREAS THAT WERE NOT INCLUDED IN THE SURVEY ARE NOT SHOWN.
3. ALL DISTANCES ARE U.S. SURVEY FEET.

BMPs PER STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON

- BMP C101 - PRESERVING NATURAL VEGETATION
- BMP C103 - HIGH VISIBILITY FENCE
- BMP C106 - WHEEL WASH/DECONTAMINATION PAD
- BMP C140 - DUST CONTROL
- BMP C220 - COVER CATCH BASINS
- BMP C233 - SILT FENCE
- BMP C250 - CONSTRUCTION WATER TREATMENT

ISSUED FOR CONSTRUCTION

NO	DRWN/DATE	REVISION	CHKD/DATE	APPVD/DATE
0	BcV 05/15/09	ISSUED FOR CONSTRUCTION		

WINSTON CHEN STATE OF WASHINGTON 39227 REGISTERED PROFESSIONAL ENGINEER

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BURLINGTON NORTHERN
FORMER MAINTENANCE FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

LEGEND

NWDZ REMEDIATION

DRAWING NUMBER: T-101

SHEET NUMBER:

REVISION 0

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GENERAL NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS.

2. CONTRACTOR SHALL STAKE OUT PROPERTY CORNERS OF THE PROPERTIES FOR WHICH THERE ARE NO ACCESS AGREEMENTS. THE ENGINEER WILL IDENTIFY THOSE PROPERTIES PRIOR TO START OF WORK.

SOIL HANDLING FACILITY NOTES

1. EXISTING STOCKPILE AREA DETAILS ARE SHOWN. THIS AREA WILL BE USED TO THE EXTENT PRACTICABLE. ALL CONSTRUCTION DETAILS AND SUBSEQUENT NOTES SHOWN WILL BE USED TO CONSTRUCT ADDITIONAL AREAS, IF REQUIRED. CONTRACTOR SHALL INSPECT EXISTING SOIL HANDLING FACILITY AND DECON AREAS, AND REPAIR PAVEMENT AND BERMS AS NECCESSARY TO BRING THE AREA UP TO THESE STANDARDS.

2. STOCKPILE AREA DIMENSIONS AND SHAPE MAY VARY. ACTUAL SIZE WILL BE DETERMINED BASED ON SITE CONDITIONS AND REQUIRED STORAGE AREA. CONTRACTOR SHALL DETERMINE FINAL SIZE OF AREA WITH APPROVAL BY SITE ENGINEER.

3. STOCKPILE AREA IS TO BE GRADED TO POSITIVELY DRAIN TOWARDS THE WATER COLLECTION AREA.

4. CONTAINMENT BERMS SHALL BE CONSTRUCTED OF UNIMPACTED SOIL. PLACE WATER CONTAINMENT BERM SOILS IN MAXIMUM OF 12" LIFTS.

5. WATER CONTAINMENT BERMS ARE TO BE MOISTURE CONDITIONED AND COMPACTED TO A FIRM, UNYIELDING CONDITION, AS DIRECTED BY THE SITE ENGINEER.

6. DAILY INSPECTION AND MAINTENANCE OF THE WATER CONTAINMENT BERMS IS REQUIRED DURING PERIODS OF PRECIPITATION.

7. CONTRACTOR SHALL REMOVE WATER FROM COLLECTION SUMP AND TRANSFER IT TO THE WATER TREATMENT SYSTEM. NO VEHICLE DECONTAMINATION WATER IS TO BE DISPOSED OF WITH THE ON-SITE TREATMENT SYSTEM.

8. SOLIDS ACCUMULATED IN THE SUMP SHALL BE REMOVED PERIODICALLY AND PLACED ON THE STOCKPILE.

9. UPON COMPLETION OF THE WORK, THE CONTAMINATED MATERIAL STOCKPILE AREA SHALL BE FULLY DECONTAMINATED AND CLEANED TO THE SATISFACTION OF THE ENGINEER. ONCE DECONTAMINATION IS APPROVED, THE CONTRACTOR SHALL BREACH CONTAINMENT BERM AS DIRECTED BY THE ENGINEER.

10. ANY DAMAGE TO CONTAMINATED MATERIAL STOCKPILE AREA MUST BE REPORTED TO THE SITE ENGINEER IMMEDIATELY AND REPAIRED AT NO ADDITIONAL COST.

11. ALL WELLS TO BE PROTECTED DURING OPERATION OF STOCKPILE AREA.

12. WATER COLLECTED FROM WHEEL WASH/DECON AREA SHALL BE REMOVED AND DISPOSED OF OR RECYCLED AT A LICENSED FACILITY.

TRAFFIC ROUTING AND PEDESTRIAN ACCESS NOTES

1. SIDEWALKS OUTSIDE THE REMEDIATION AREA WILL BE ACCESIBLE TO PEDESTRIANS.

2. CONTRACTOR MAY PROPOSE MODIFICATIONS TO THIS PLAN PROVIDED THAT ALL PEDESTRIAN AND VEHICULAR ACCESS IS MAINTAINED.

3. CONTRACTOR SHALL MODIFY PUBLIC ACCESS PLAN AS THEY DETERMINE APPROPRIATE. CONTRACTOR SHALL ADD SIGNAGE TO PLAN FOR BOTH VEHICULAR AND PEDESTRIAN ACCESS SO THAT IT IS CLEAR TO BOTH PEDESTRIANS AND VEHICLES.

TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) NOTES

1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

3. 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 MINIMIZED.

4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

6. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE 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.).

7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

9. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE ENGINEER.

10. ALL PAVED AREAS SHALL BE KEPT CLEAN FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROVIDE A DEDICATED STREET CLEANER CAPABLE OF VACUUMING STREETS.

11. TO THE EXTENT PRACTICABLE, NATURAL VEGETATION SHALL BE PRESERVED.

12. SEDIMENT AND EROSION CONTROL PLAN TEXT IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.

13. THE PLACEMENT OF SILT FENCING AND OTHER TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE DONE WITH GUIDANCE FROM BNSF RAILWAY PERSONNEL SO AS TO NOT INTERFERE WITH ACTIVE RAILWAY LINES.

14. WIRE AND SILT FENCE CONFIGURATIONS MAY VARY BASED ON FIELD CONDITIONS AND CONSTRUCTION PLANNING. ALTERNATE CONFIGURATIONS MAY BE IMPLEMENTED WITH APPROVAL FROM THE ENGINEER.

15. CONTRACTOR SHALL NOT DIVERT STORMWATER RUNON ENTERING THE EXCAVATION AREA. STORMWATER RUNOFF FROM THE CONSTRUCTION AREA SHALL BE FULLY PROTECTED BY THE BMP AS INDICATED ON THE ESC PLANS.

16. BMP LEGEND IS FOUND ON SHEET T-101.

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHK'D	DATE	APPV'D	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

GENERAL NOTES

NWDZ REMEDIATION

DRAWING NUMBER:
T-102

SHEET NUMBER:

REVISION 0

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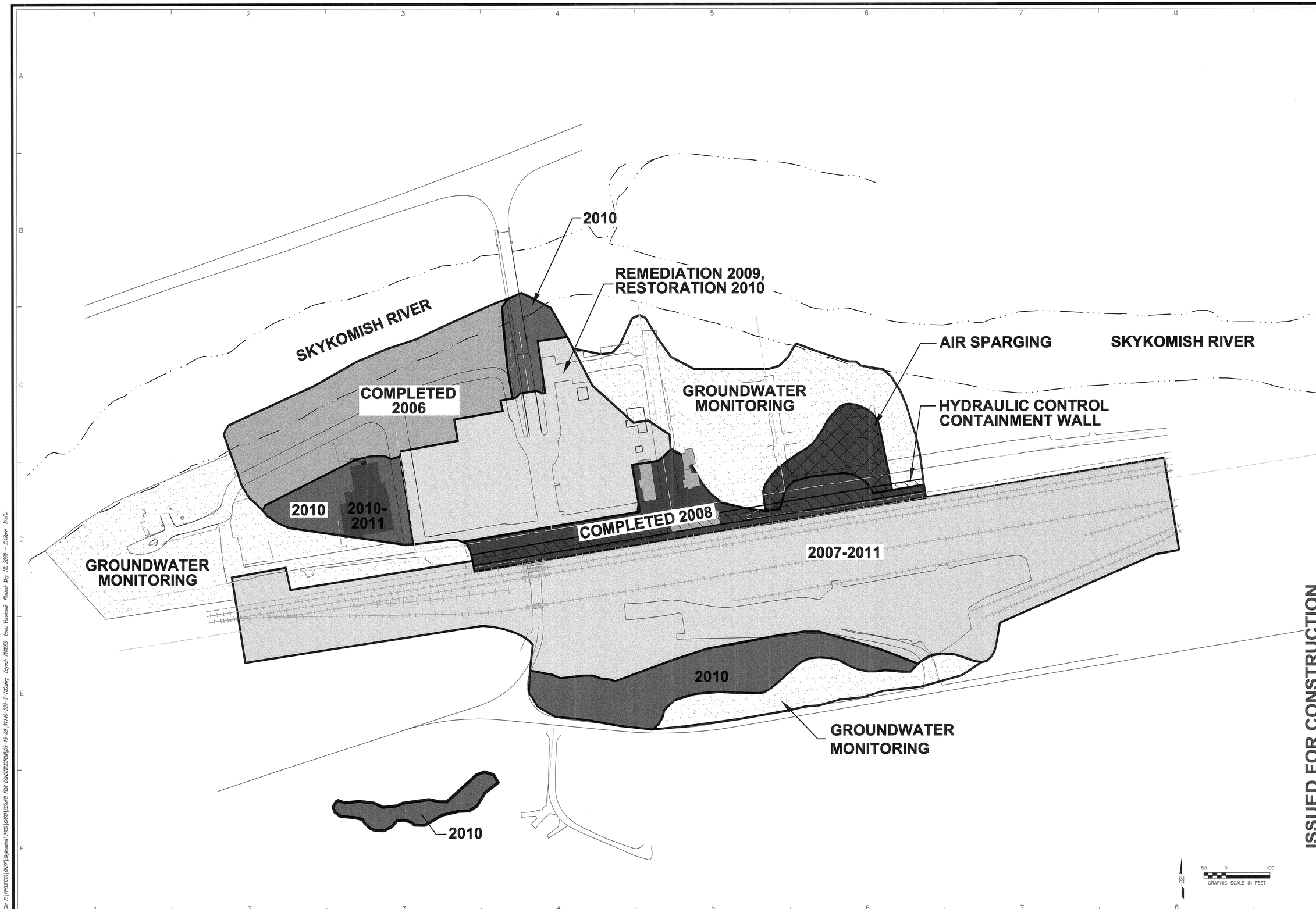

ISSUED FOR CONSTRUCTION

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FORMER MAINTENANCE FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390

DATE: 05/15/09

REMEDIATION SEQUENCE

NWDZ REMEDIATION

DRAWING NUMBER:
T-103

SHEET NUMBER:

REVISION 0

NOTES:
1. OVERHEAD UTILITIES WITHIN EXCAVATION LIMIT WHERE NECESSARY WILL BE REMOVED/RELOCATED BY OTHERS PRIOR TO WORK.

TABLE OF PROJECT CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION
CP-106	259272.7849	1510551.7175	930.49
CP-108	259104.5101	1510285.5817	
CP-117	259378.6096	1510539.7420	931.73
CP-119	259397.3358	1510655.4859	931.13
CP-122	259372.8530	1511108.2778	937.03
CP-127	259108.8291	1511204.5906	
CP-134	258990.3948	1510884.3740	
CP-135	259039.1543	1510569.0624	935.38
CP-145	258766.8335	1511452.9859	
CP-153	258808.5603	1510647.577	
CP-172	259425.4987	1511096.2824	936.95

25 0 50
GRAPHIC SCALE IN FEET

SKYKOMISH RIVER
WEST RIVER DRIVE
EAST RIVER DRIVE
SIXTH STREET
FIFTH STREET
FOURTH STREET
RAILROAD AVENUE
SKY RIVER INN 2 STORY BUILDING
CITY HALL 2 STORY BUILDING
POST OFFICE 1 STORY BUILDING
2 STORY CHURCH #112
HOTEL 4 STORY BUILDING
WHISTLING POST FOOD & SPIRITS 2 STORY BUILDING
STOVE SHOP 2 STORY BUILDING
COMMUNITY CENTER 1 STORY HOUSE
TOWN MAINTENANCE 2 STORY WOOD BUILDING
OPERA HOUSE 2 STORY WOOD BUILDING
CONCRETE TENNIS COURT
SHOP 2 STORY HOUSE
ANNEX
MARTIN 1 STORY HOUSE
SAWING 1 STORY HOUSE
WHEATLEY 2 STORY HOUSE
WOORE 1 STORY WOOD
WITCHELL RENTAL HOUSE
WEST HCC GATE
CENTER HCC GATE
EAST HCC GATE
TREATMENT SYSTEM UTILITY VAULT
REMEDIATION EQUIPMENT BUILDING
ROBINSON HOUSE
5 STORY BARN
5-W-11
5-W-15
5-W-3
5-W-2
5-W-4
1A-W-4
1A-W-1
1B-W-3
1C-W-4
1C-W-3
1C-W-
1C-W-2
2A-W-3
2A-W-4
2A-W-7
2B-B-21
MW-22
MW-16
MW-15
MW-40
MW-14
MW-13
MW-12
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MW-17
MW-1
MW-2
MW-3
MW-34
MW-35

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHK'D	DATE	APP'D	DATE
0	BCV	05/15/09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

EXISTING CONDITIONS

NWDZ REMEDIATION

DRAWING NUMBER: C-100
SHEET NUMBER:
REVISION 0

WINSTON C. CHEN — STATE OF WASHINGTON — 39227 — REGISTERED PROFESSIONAL ENGINEER — 5/15/09

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NOTES:
1. CONTRACTOR SHALL CONFIRM ALL UTILITY AND STRUCTURE LOCATIONS. ADDITIONAL UTILITIES MAY BE PRESENT.
2. CONTRACTOR SHALL CONFIRM ALL UTILITIES WITHIN THE WORK LIMIT HAVE BEEN PROPERLY DISCONNECTED.
3. OVERHEAD UTILITIES WITHIN EXCAVATION LIMIT WILL BE REMOVED/RELOCATED BY OTHERS PRIOR TO WORK.
4. CONTRACTOR SHALL REMOVE OR RELOCATE BUILDINGS, AS INDICATED ON THE PLAN,
5. WITHIN THE EXCAVATION LIMIT, THE CONTRACTOR SHALL:
   - CLEAR AND GRUB, AS NECESSARY,
   - BREAK AND REMOVE ASPHALT/CONCRETE ROAD AND WALKWAYS, AS NECESSARY,
   - REMOVE ABOVE GROUND STRUCTURES INCLUDING FOUNDATIONS, OIL AND PROPANE TANKS, PIPING, ARCHITECTURAL ELEMENTS,
   - STORE ABOVE GROUND STRUCTURES, SUCH AS OIL AND PROPANE TANKS, WOODEN FENCES, AND ARCHITECTURAL ELEMENTS, AS DIRECTED BY THE ENGINEER,
   - REMOVE UNDERGROUND STRUCTURES, SUCH AS SEPTIC TANKS, OIL AND PROPANE TANKS, PIPING, CATCH BASINS, MANHOLES AND FOUNDATIONS/FOOTINGS.
6. BREAK AND REMOVE ASPHALT AS REQUIRED FOR TRENCHING.
7. TEMPORARILY RELOCATE ABOVEGROUND TANKS, IF NECESSARY.

BUILDING TO BE RELOCATED

BUILDING TO BE DEMOLISHED

GRAPHIC SCALE IN FEET 15 0 30

WEST RIVER DRIVE

EAST RIVER DRIVE

SKYKOMISH RIVER

SIXTH STREET

FIFTH STREET

FOURTH STREET

RAILROAD AVENUE

MITCHELL SEPTIC TO BE PROTECTED OR DIVERTED AND REPLACED

EXISTING MSE WALL

MACKNER 1 STORY WOOD

GARAGE

MITCHELL 1 STORY WOOD

MITCHELL RENTAL HOUSE

TEACHERAGE 2 STORY WOOD HOUSE

MOORE 1 STORY WOOD

SHED

WHEATLEY 2 STORY HOUSE

GARAGE 1 STORY

Chestnut Cluster

Asphalt Driveway

6' Wood Fence

8' & 12' DH Path

CONCRETE RING

CONCRETE TENNIS COURT

10' Chain Link Fence

6",8",12" Maples

12" Maple

6" Maples

10" Maple

OFC

BNSF 2 STORY HOUSE

Brick Walk

Deck

Cement

Brick Veneer

Wood Fence

STOVE SHOP OUT BLDG

3 STORY CONCRETE SCHOOL BUILDING

FDC

COMMUNITY CENTER 1 STORY HOUSE

Wood Stairs

TOWN MAINTENANCE 2 STORY WOOD BUILDING

OPERA HOUSE 2 STORY WOOD BUILDING

STOVE SHOP 2 STORY BUILDING

4.5' Wood Fence

Concrete Sidewalk

Column, Typ.

Overhang

Curb & Gutter

Concrete Asphalt

Concrete Curb

Conc. Curb

Conc. Wall

Conc. Step

Concrete Stairs

Concrete Ramp

Asphalt Path

Gravel

Chain Link Fence

Guy Wire

Utility Pole

Power Pole

Light Pole

Fire Hydrant

Water Valve

Gas Valve

Sewer Manhole

Storm Drain

Catch Basin

Cleanout

Sign

Mailbox

Bollard

Flagpole

Bench

Trash Can

Planter

Rockery

Retaining Wall

Fence

Hedge

Tree

Shrub

Grass

Rock

Sand

Water

Building

Roof

Window

Door

Stairs

Ramp

Handrail

Guardrail

Curb

Gutter

Sidewalk

Pavement

Asphalt

Concrete

Brick

Stone

Metal

Wood

Plastic

Glass

Paint

Insulation

Roofing

Flashing

Siding

Trim

Soffit

Fascia

Gutter

Downspout

Chimney

Vent

Skylight

Antenna

Satellite Dish

Solar Panel

Wind Turbine

Generator

Transformer

Meter

Switch

Outlet

Light

Fan

Heater

Air Conditioner

Refrigerator

Stove

Oven

Microwave

Dishwasher

Sink

Toilet

Bathtub

Shower

Mirror

Cabinet

Drawer

Shelf

Table

Chair

Bed

Couch

Desk

Computer

Printer

Phone

Clock

Lamp

Rug

Curtain

Blinds

Picture

Frame

Book

Pen

Pencil

Paper

Envelope

Stamp

Key

Lock

Safe

Tool

Hammer

Screwdriver

Wrench

Pliers

Saw

Drill

Nail

Screw

Bolt

Nut

Washer

Rivet

Glue

Tape

Measure

Level

Square

Compass

Protractor

Calculator

Ruler

Eraser

Sharpener

Scissors

Knife

Fork

Spoon

Plate

Bowl

Cup

Glass

Bottle

Can

Box

Bag

Basket

Barrel

Crate

Pallet

Forklift

Truck

Trailer

Car

Bicycle

Motorcycle

Boat

Airplane

Helicopter

Train

Bus

Taxi

Ambulance

Fire Truck

Police Car

Tow Truck

Dump Truck

Cement Mixer

Crane

Bulldozer

Excavator

Backhoe

Loader

Grader

Roller

Paver

Compactor

Jackhammer

Chainsaw

Welder

Torch

Grinder

Sander

Polisher

Vacuum

Broom

Mop

Bucket

Hose

Nozzle

Valve

Pump

Motor

Engine

Transmission

Axle

Wheel

Tire

Brake

Suspension

Steering

Exhaust

Muffler

Catalytic Converter

Radiator

Fan

Belt

Hose

Filter

Oil

Grease

Fuel

Battery

Charger

Jumper Cables

Starter

Alternator

Spark Plug

Ignition

Carburetor

Fuel Injector

Fuel Pump

Fuel Tank

Fuel Line

Fuel Filter

Fuel Gauge

Speedometer

Odometer

Tachometer

Temperature Gauge

Pressure Gauge

Oil Pressure Gauge

Voltmeter

Ammeter

Ohmmeter

Multimeter

Oscilloscope

Signal Generator

Frequency Counter

Logic Analyzer

Protocol Analyzer

Network Analyzer

Spectrum Analyzer

Vector Network Analyzer

Power Meter

Attenuator

Amplifier

Mixer

Oscillator

Phase Shifter

Directional Coupler

Isolator

Circulator

Duplexer

Diplexer

Triplexer

Quadplexer

Multiplexer

Demultiplexer

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Radio Frequency

Antenna

Transmitter

Receiver

Transceiver

Repeater

Amplifier

Attenuator

Filter

SKY RIVER INN 2 STORY BUILDING

SKY RIVER INN OFFICE 1 STORY WOOD

SKY RIVER INN 2 STORY WOOD

2 STORY HOUSE

CITY HALL 2 STORY BUILDING

POST OFFICE 2 STORY BUILDING

SANUD 1 STORY HOUSE

HOUSE

1 STORY HOUSE

2 STORY CHURCH #112

SHED

GARAGE

Concrete

Wood Deck

Hand Rail

Wood Ramp

Lids for Septic Tank

ANNEX

Deck

HOUSE OF THE RISING SUN 4 STORY BUILDING

HOUSE OF THE RISING SUN MARTIN 2 STORY HOUSE

SCHOOL HOUSE 1 STORY BUILDING

HOUSE OF THE RISING SUN 2 STORY BUILDING

EXISTING SHEET PILE EXISTING MSE WALL

TEMPORARY STAIRS

GAS LINE AND ELECTRICAL CONNECTION (LOCATION APPROXIMATE)

WHISTLING POST FOOD & SPIRITS 2 STORY BUILDING

EXISTING MSE WALL

Approx. 43'-4"x97' Fill

Hand Rail

Wood Ramp

4' Wood Fence

Brick Sidewalk

Concrete Sidewalk

Overhang

Curb & Gutter

Conc. Curb

Conc. Wall

Conc. Step

Concrete Stairs

Concrete Ramp

Asphalt Path

Gravel

Chain Link Fence

Guy Wire

Utility Pole

Power Pole

Light Pole

Fire Hydrant

Water Valve

Gas Valve

Sewer Manhole

Storm Drain

Catch Basin

Cleanout

Sign

Mailbox

Bollard

Flagpole

Bench

Trash Can

Planter

Rockery

Retaining Wall

Fence

Hedge

Tree

Shrub

Grass

Rock

Sand

Water

Building

Roof

Window

Door

Stairs

Ramp

Handrail

Guardrail

Curb

Gutter

Sidewalk

Pavement

Asphalt

Concrete

Brick

Stone

Metal

Wood

Plastic

Glass

Paint

Insulation

Roofing

Flashing

Siding

Trim

Soffit

Fascia

Gutter

Downspout

Chimney

Vent

Skylight

Antenna

Satellite Dish

Solar Panel

Wind Turbine

Generator

Transformer

Meter

Switch

Outlet

Light

Fan

Heater

Air Conditioner

Refrigerator

Stove

Oven

Microwave

Dishwasher

Sink

Toilet

Bathtub

Shower

Mirror

Cabinet

Drawer

Shelf

Table

Chair

Bed

Couch

Desk

Computer

Printer

Phone

Clock

Lamp

Rug

Curtain

Blinds

Picture

Frame

Book

Pen

Pencil

Paper

Envelope

Stamp

Key

Lock

Safe

Tool

Hammer

Screwdriver

Wrench

Pliers

Saw

Drill

Nail

Screw

Bolt

Nut

Washer

Rivet

Glue

Tape

Measure

Level

Square

Compass

Protractor

Calculator

Ruler

Eraser

Sharpener

Scissors

Knife

Fork

Spoon

Plate

Bowl

Cup

Glass

Bottle

Can

Box

Bag

Basket

Barrel

Crate

Pallet

Forklift

Truck

Trailer

Car

Bicycle

Motorcycle

Boat

Airplane

Helicopter

Train

Bus

Taxi

Ambulance

Fire Truck

Police Car

Tow Truck

Dump Truck

Cement Mixer

Crane

Bulldozer

Excavator

Backhoe

Loader

Grader

Roller

Paver

Compactor

Jackhammer

Chainsaw

Welder

Torch

Grinder

Sander

Polisher

Vacuum

Broom

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Hose

Nozzle

Valve

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Brake

Suspension

Steering

Exhaust

Muffler

Catalytic Converter

Radiator

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Belt

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Filter

Oil

Grease

Fuel

Battery

Charger

Jumper Cables

Starter

Alternator

Spark Plug

Ignition

Carburetor

Fuel Injector

Fuel Pump

Fuel Tank

Fuel Line

Fuel Filter

Fuel Gauge

Speedometer

Odometer

Tachometer

Temperature Gauge

Pressure Gauge

Oil Pressure Gauge

Voltmeter

Ammeter

Ohmmeter

Multimeter

Oscilloscope

Signal Generator

Frequency Counter

Logic Analyzer

Protocol Analyzer

Network Analyzer

Spectrum Analyzer

Vector Network Analyzer

Power Meter

Attenuator

Amplifier

Mixer

Oscillator

Phase Shifter

Directional Coupler

Isolator

Circulator

Duplexer

Diplexer

Triplexer

Quadplexer

Multiplexer

Demultiplexer

Modulator

Demodulator

Encoder

Decoder

Transcoder

Compressor

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Satellite

Microwave

Infrared

Ultrasonic

Radio Frequency

Antenna

Transmitter

Receiver

Transceiver

Repeater

Amplifier

Attenuator

Filter

LAIR-WEST HCC GATE

WEST HCC GATE

CENTER HCC GATE

C/L RAIL

3' Chain Link Fence

4' Wood Fence

Brick Sidewalk

Concrete Sidewalk

Overhang

Curb & Gutter

Conc. Curb

Conc. Wall

Conc. Step

Concrete Stairs

Concrete Ramp

Asphalt Path

Gravel

Chain Link Fence

Guy Wire

Utility Pole

Power Pole

Light Pole

Fire Hydrant

Water Valve

Gas Valve

Sewer Manhole

Storm Drain

Catch Basin

Cleanout

Sign

Mailbox

Bollard

Flagpole

Bench

Trash Can

Planter

Rockery

Retaining Wall

Fence

Hedge

Tree

Shrub

Grass

Rock

Sand

Water

Building

Roof

Window

Door

Stairs

Ramp

Handrail

Guardrail

Curb

Gutter

Sidewalk

Pavement

Asphalt

Concrete

Brick

Stone

Metal

Wood

Plastic

Glass

Paint

Insulation

Roofing

Flashing

Siding

Trim

Soffit

Fascia

Gutter

Downspout

Chimney

Vent

Skylight

Antenna

Satellite Dish

Solar Panel

Wind Turbine

Generator

Transformer

Meter

Switch

Outlet

Light

Fan

Heater

Air Conditioner

Refrigerator

Stove

Oven

Microwave

Dishwasher

Sink

Toilet

Bathtub

Shower

Mirror

Cabinet

Drawer

Shelf

Table

Chair

Bed

Couch

Desk

Computer

Printer

Phone

Clock

Lamp

Rug

Curtain

Blinds

Picture

Frame

Book

Pen

Pencil

Paper

Envelope

Stamp

Key

Lock

Safe

Tool

Hammer

Screwdriver

Wrench

Pliers

Saw

Drill

Nail

Screw

Bolt

Nut

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Rivet

Glue

Tape

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Ruler

Eraser

Sharpener

Scissors

Knife

Fork

Spoon

Plate

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Cup

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Bottle

Can

Box

Bag

Basket

Barrel

Crate

Pallet

Forklift

Truck

Trailer

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Motorcycle

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Grader

Roller

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Jackhammer

Chainsaw

Welder

Torch

Grinder

Sander

Polisher

Vacuum

Broom

Mop

Bucket

Hose

Nozzle

Valve

Pump

Motor

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Transmission

Axle

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Tire

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Exhaust

Muffler

Catalytic Converter

Radiator

Fan

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Jumper Cables

Starter

Alternator

Spark Plug

Ignition

Carburetor

Fuel Injector

Fuel Pump

Fuel Tank

Fuel Line

Fuel Filter

Fuel Gauge

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Odometer

Tachometer

Temperature Gauge

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Receiver

Transceiver

Repeater

Amplifier

Attenuator

Filter

WINSTON CHEN — STATE OF WASHINGTON — 19227 — REGISTERED PROFESSIONAL ENGINEER — 5/18/09

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
1	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

AECOM

AECOM Environment
Seattle, Washington
(206) 624-9349
www.aecom.com

BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

SITE CLEARING AND DEMOLITION PLAN

NWDZ REMEDIATION

DRAWING NUMBER: C-101

SHEET NUMBER:

REVISION | 0

File: P:\PROJECTS\BNSF\Skykomish\2009\(08)ISSUED FOR CONSTRUCTION\05-15-09\01140-2009-C01.dwg Layout: C-101 User: VanSant Plotted: May 18, 2009 - 2:13pm Xref's:

FIFTH STREET

FOURTH

THIRD

RAILROAD AVENUE

RAILROAD AVENUE

OLD CASCADE HIGHWAY

OLD CASCADE HIGHWAY

CATCH BASIN INSERT BMP C220 6 C-107 2A-W-3

CATCH BASIN INSERT BMP C220 6 C-107

2 C-107 CHAIN LINK GATES TO BE LOCATED BY CONTRACTOR

PORTABLE EQUIPMENT STORAGE AREA AND CONTRACTOR TRAILERS

BNSF TRAILER

TELECOM BUILDING AND COMMUNICATION TOWER

WHEEL WASH/DECONTAMINATION PAD BMP C106

CONSTRUCTION WATER TREATMENT (LEVELING MAY BE NEEDED) BMP C250

1 C-107 TEMPORARY CONSTRUCTION FENCE

APPROXIMATE LOCATION OF REMEDIATION UNDERGROUND PIPING

TREATMENT SYSTEM UTILITY VAULT

TREATMENT SYSTEM UTILITY VAULT

WATER COLLECTION SUMP NEEDS TO BE REPAIRED PRIOR TO STOCKPILING

ECOLOGY BLOCK WALL

PROTECT WITH ECOLOGY BLOCKS OR SIMILAR

EXISTING SOIL HANDLING FACILITY 3 C-107

PROTECT WITH ECOLOGY BLOCKS OR SIMILAR

PROTECT WITH ECOLOGY BLOCKS OR SIMILAR

ASPHALT PAD REQUIRES LIMITED PATCHING, WHERE DAMAGED, PRIOR TO STOCKPILING

2 C-107 CHAIN LINK GATES

REMEDIATION EQUIPMENT BUILDING

TO BE REPAIRED AND MAINTAINED

APPROXIMATE LOCATION OF ADDITIONAL STOCKPILE AREA

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-12 MW-13 MW-14 MW-15 MW-17 MW-18 MW-28 MW-33 MW-34 MW-35 MW-40

1C-W-2 2A-W-4 2A-W-7 2A-W-8 2B-B-21

25 0 50

GRAPHIC SCALE IN FEET

ISSUED FOR CONSTRUCTION

NO	BRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

WINSTON C. LEON — STATE OF WASHINGTON — 39227 — REGISTERED PROFESSIONAL ENGINEER

AECOM

AECOM Environment
Seattle, Washington
(206) 624-9349
www.aecom.com

BURLINGTON NORTHERN
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

STOCKPILE AREA SITE PREPARATION AND EROSION CONTROL

NWDZ REMEDIATION

DRAWING NUMBER: C-102

SHEET NUMBER:

REVISION 0

File: F:\PROJECTS\BNSF\Skykomish\2009\CAD\ISSUED FOR CONSTRUCTION\05-15-09\01140-2009-C01.dwg Layout: C-102 User: VeraKoroll Plotted: May 08, 2009 - 2:14pm Xref's:

NOTES:
1. CONTRACTOR SHALL DETERMINE SEQUENCING OF WORK. PHASING SHOWN ON DRAWINGS C-103 THROUGH C-106 IS CONCEPTUAL ONLY.
2. CONTRACTOR SHALL SEQUENCE EXCAVATION TO ALLOW UNINTERRUPTED ACCESS FROM RAILROAD AVE TO THE FIFTH STREET BRIDGE.
3. CONTRACTOR SHALL SEQUENCE EXCAVATION SO RESIDENTS OF FOURTH STREET, EAST RIVER DRIVE, WEST RIVER DRIVE AND SIXTH STREET HAVE UNINTERRUPTED ACCESS TO RAILROAD AVE AND THE FIFTH STREET BRIDGE.
4. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE THE INTERRUPTION OF RESIDENTIAL TRAFFIC FLOW.
5. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCE AND EROSION CONTROLS FOR EACH PHASE OF WORK.

PHASE I:
1. INSTALL PHASE I TEMPORARY CONSTRUCTION FENCE.
2. RELOCATE BUILDINGS 13, 14, 15, 16, AND 17*.
3. EXCAVATE 4TH STREET.
4. REMOVE EXISTING SHEET PILE.
5. BACK FILL.
6. REOPEN 4TH STREET.
7. REPLACE BUILDINGS 13 AND 16.

*CONTRACTOR SHALL RELOCATE BUILDING 17 SUCH THAT IT IS ACCESSIBLE AND UTILITIES ARE CONNECTED THROUGHOUT ENTIRE DURATION OF CONSTRUCTION.

GRAPHIC SCALE IN FEET
15 0 30

WATER UTILITY BYPASS GENERAL NOTES

1. THE WATER BYPASS MAIN AND ALL ASSOCIATED CONNECTIONS AND EXTENSIONS SHALL BE HDPE PER WSDOT STANDARD SPECIFICATIONS 7-09.
2. THE WATER BYPASS MAIN AND ALL ASSOCIATED CONNECTIONS AND EXTENSIONS SHALL BE PRESSURE TESTED AND DISINFECTED PER WSDOT STANDARD SPECIFICATIONS 7-09.
3. THE CONTRACTOR SHALL CONSTRUCTION ALL CONNECTIONS AND EXTENSIONS IN CONFORMANCE WITH WSDOT STANDARD SPECIFICATIONS 7-09.
4. THE CONTRACTOR SHALL PROTECT THE BYPASS SYSTEM FROM ANY DAMAGE CAUSED FROM CONSTRUCTION ACTIVITIES AND ACTIVITIES FROM TOWN TRAFFIC, AND ADJACENT PRIVATE PROPERTIES. THE CONTRACTOR SHALL PROVIDE RAMP OVER BYPASS SYSTEM IF LOCATED WITHIN AREAS OF TRAFFIC.
5. CONTRACTOR TO VERIFY LOCATION AND QUANTITY OF ALL EXISTING WATER SERVICES AND DETERMINE IF ANY ADDITIONAL CONNECTIONS NEED TO BE MADE.

WATER UTILITY BYPASS CONSTRUCTION NOTES

① 6-INCH DIAMETER HDPE BYPASS MAIN

② CONNECT TO EXISTING MAIN.

③ WATER SERVICE BYPASS CONNECTION TO MATCH EXISTING SIZE, ¾-INCH MINIMUM, SDR7 PE.

WEST RIVER DRIVE
EAST RIVER DRIVE
SIXTH STREET
FIFTH STREET
FOURTH STREET
SKYKOMISH RIVER
RAILROAD AVENUE
CONTRACTOR TO PLUG OUTFALL
CATCH BASIN INSERT BMP-220 6 C-107
TEMPORARY CONSTRUCTION FENCE BMP-C233 1 C-107
PHASE TRANSITION 4 C-107
CHAIN LINK GATES TO BE LOCATED BY CONTRACTOR 2 C-107
JERSEY BARRIER 5 C-107
FENCE TO BE LOCATED TO ALLOW ACCESS TO WHISTLING POST TEMPORARY STAIRS
MITCHELL SEPTIC TO BE PROTECTED OR DIVERTED AND REPLACED
EAST HCC GATE
WEST HCC GATE
CENTER HCC GATE
EXISTING MSE WALL
EXISTING SHEET PILE
3 STORY CONCRETE SCHOOL BUILDING 1
COMMUNITY CENTER 1 STORY HOUSE 2
TOWN MAINTENANCE 2 STORY WOOD BUILDING 3
OPERA HOUSE 2 STORY WOOD BUILDING 4
STONE SHOP 2 STORY BUILDING 7
HOTEL 4 STORY BUILDING 8
POST OFFICE STORY BUILDING 10
SKY RIVER INN 1 STORY WOOD 11
SKY RIVER INN 2 STORY BUILDING 12
SAND 1 STORY HOUSE 13
GARAGE 14
MARTIN 1 STORY HOUSE 15
SHED CAR 16
GAS LINE AND ELECTRICAL CONNECTION (LOCATION APPROXIMATE) 17
WHISTLING POST FOOD & SPIRITS 2 STORY BUILDING
CITY HALL 2 STORY BUILDING
2 STORY HOUSE
1 STORY HOUSE
2 STORY CHURCH #112
TEACHERAGE 2 STORY WOOD HOUSE
MOORE 1 STORY WOOD
MACKNER 1 STORY WOOD
MITCHELL 1 STORY WOOD
MITCHELL RENTAL HOUSE
WHEATLEY 2 STORY HOUSE 5
BNSF 2 STORY HOUSE 6
CONCRETE TENNIS COURT
CONCRETE RING
SAND & ROCK BEACH

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION

CHK'D DATE APP'D/DATE

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

PHASE I
TRAFFIC ROUTE AND SITE PREPARATION AND EROSION CONTROL

NWDZ REMEDIATION

DRAWING NUMBER: C-103
SHEET NUMBER:
REVISION 0

File: F:\PROJECTS\BNSF\Skykomish\2009\CAD\ISSUED FOR CONSTRUCTION\05-15-09\01140-2009-C01.dwg Layout: C-103 User: VeraNorth Plotted: May 13, 2009 - 2:14pm Xref's:

NOTES:
1. CONTRACTOR SHALL DETERMINE SEQUENCING OF WORK. PHASING SHOWN ON DRAWINGS C-103 THROUGH C-106 IS CONCEPTUAL ONLY.
2. CONTRACTOR SHALL SEQUENCE EXCAVATION TO ALLOW UNINTERRUPTED ACCESS FROM RAILROAD AVE TO THE FIFTH STREET BRIDGE.
3. CONTRACTOR SHALL SEQUENCE EXCAVATION SO RESIDENTS OF FOURTH STREET, EAST RIVER DRIVE, WEST RIVER DRIVE AND SIXTH STREET HAVE UNINTERRUPTED ACCESS TO RAILROAD AVE AND THE FIFTH STREET BRIDGE.
4. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE THE INTERRUPTION OF RESIDENTIAL TRAFFIC FLOW.
5. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCE AND EROSION CONTROLS FOR EACH PHASE OF WORK.

PHASE II:
1. INSTALL PHASE II TEMPORARY CONSTRUCTION FENCE.
2. DEMOLISH BUILDINGS 9, 10, 11, AND 12.
3. RELOCATE BUILDINGS 8, 14, 15, AND 17*.
4. EXCAVATE.
5. BACK FILL.
6. REPLACE BUILDINGS 14, 15, AND 17.

*CONTRACTOR SHALL RELOCATE BUILDING 17 SUCH THAT IT IS ACCESSIBLE AND UTILITIES ARE CONNECTED THROUGHOUT ENTIRE DURATION OF CONSTRUCTION

GRAPHIC SCALE IN FEET
15 0 30

WATER UTILITY BYPASS GENERAL NOTES
SEE DRAWING C-103

WATER UTILITY BYPASS CONSTRUCTION NOTES

① 6-INCH DIAMETER HDPE BYPASS MAIN

② CONNECT TO EXISTING MAIN.

③ WATER SERVICE BYPASS CONNECTION TO MATCH EXISTING SIZE, ¾-INCH MINIMUM, SDR7 PE.

CONTRACTOR TO PLUG OUTFALL

SKYKOMISH RIVER

WEST RIVER DRIVE

EAST RIVER DRIVE

SIXTH STREET

FIFTH STREET

FOURTH STREET

RAILROAD AVENUE

CATCH BASIN INSERT BMP-220 6 C-107

TEMPORARY CONSTRUCTION FENCE BMP-C233 2 C-107

PHASE TRANSITION 4 C-107

JERSEY BARRIER 5 C-107

CHAIN LINK GATES 2 C-107

MITCHELL SEPTIC TO BE PROTECTED OR DIVERTED AND REPLACED

EXISTING MSE WALL

CAR-WEST HCC GATE

WEST HCC GATE

CENTER HCC GATE

C/L RAIL

3 STORY CONCRETE SCHOOL BUILDING 1

COMMUNITY CENTER 1 STORY HOUSE 2

TOWN MAINTENANCE 2 STORY WOOD BUILDING 3

OPERA HOUSE 2 STORY WOOD BUILDING 4

STOVE SHOP OUT BLDG

STOVE SHOP 2 STORY BUILDING 7

WHEATLEY 2 STORY HOUSE 5

BNSF 2 STORY HOUSE 6

HOTEL 4 STORY BUILDING 8

ANNEX 9

POST OFFICE 1 STORY BUILDING 10

SKY RIVER INN OFFICE 1 STORY WOOD 11

SKY RIVER INN 2 STORY BUILDING 12

SARNO 1 STORY HOUSE 13

GARAGE 14

MARTIN STORY HOUSE 15

GARAGE 16

WHISTLING POST FOOD & SPIRITS 2 STORY BUILDING 17

MACKNER 1 STORY WOOD

MITCHELL RENTAL HOUSE 1 STORY WOOD

TEACHERAGE 2 STORY WOOD HOUSE

MOORE 1 STORY WOOD

CITY HALL 2 STORY BUILDING

2 STORY CHURCH #112

1 STORY HOUSE

2 STORY HOUSE

HOUSE

CONCRETE TENNIS COURT

10' Chain Link Fence

6' Wood Fence

4.5' Wood Fence

3' Chain Link Fence

4' Wood Fence

Asphalt Driveway

Concrete Sidewalk

Overhang

Wood Deck

Wood Ramp

Hand Rail

Brick Walk

Brick Sidewalk

Gravel

Lids for Septic Tank

Temporary Stairs

Concrete Wall

Elevated Deck

Gas Line

Water Line

Storm Line

Sewer Line

Overhead Power Line

Gas Meter

Power Pole

Light Pole

Fire Hydrant

Water Valve

Catch Basin

Manhole

Sign

Bollard

Tree

Shed

Garage

Deck

Concrete

Conc.

Wood

Brick

Gravel

Shed

Garage

Annex

Overhang

Concrete Sidewalk

Existing MSE Wall

Temporary Stairs

Wood Ramp

Hand Rail

Brick Walk

Brick Sidewalk

Gravel

Lids for Septic Tank

Elevated Deck

Concrete Wall

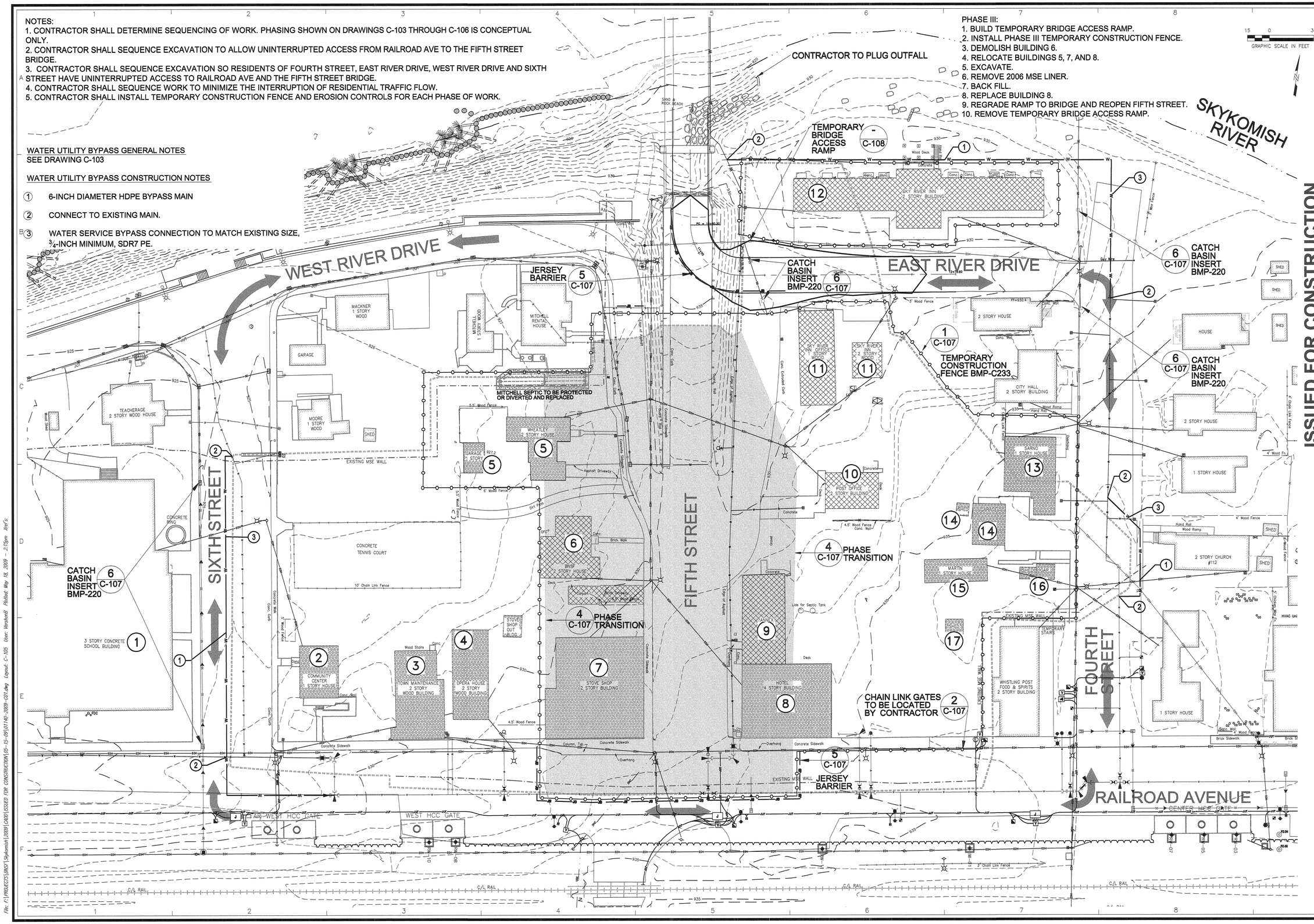
NOTES:
1. CONTRACTOR SHALL DETERMINE SEQUENCING OF WORK. PHASING SHOWN ON DRAWINGS C-103 THROUGH C-106 IS CONCEPTUAL ONLY.
2. CONTRACTOR SHALL SEQUENCE EXCAVATION TO ALLOW UNINTERRUPTED ACCESS FROM RAILROAD AVE TO THE FIFTH STREET BRIDGE.
3. CONTRACTOR SHALL SEQUENCE EXCAVATION SO RESIDENTS OF FOURTH STREET, EAST RIVER DRIVE, WEST RIVER DRIVE AND SIXTH STREET HAVE UNINTERRUPTED ACCESS TO RAILROAD AVE AND THE FIFTH STREET BRIDGE.
4. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE THE INTERRUPTION OF RESIDENTIAL TRAFFIC FLOW.
5. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCE AND EROSION CONTROLS FOR EACH PHASE OF WORK.

PHASE III:
1. BUILD TEMPORARY BRIDGE ACCESS RAMP.
2. INSTALL PHASE III TEMPORARY CONSTRUCTION FENCE.
3. DEMOLISH BUILDING 6.
4. RELOCATE BUILDINGS 5, 7, AND 8.
5. EXCAVATE.
6. REMOVE 2006 MSE LINER.
7. BACK FILL.
8. REPLACE BUILDING 8.
9. REGRADE RAMP TO BRIDGE AND REOPEN FIFTH STREET.
10. REMOVE TEMPORARY BRIDGE ACCESS RAMP.

WATER UTILITY BYPASS GENERAL NOTES
SEE DRAWING C-103

WATER UTILITY BYPASS CONSTRUCTION NOTES

1. 6-INCH DIAMETER HDPE BYPASS MAIN
2. CONNECT TO EXISTING MAIN.
3. WATER SERVICE BYPASS CONNECTION TO MATCH EXISTING SIZE, ¾-INCH MINIMUM, SDR7 PE.



ISSUED FOR CONSTRUCTION

GRAPHIC SCALE IN FEET

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

PHASE III TRAFFIC ROUTE AND SITE PREPARATION AND EROSION CONTROL

NWDZ REMEDIATION

DRAWING NUMBER: C-105

SHEET NUMBER:

REVISION 0

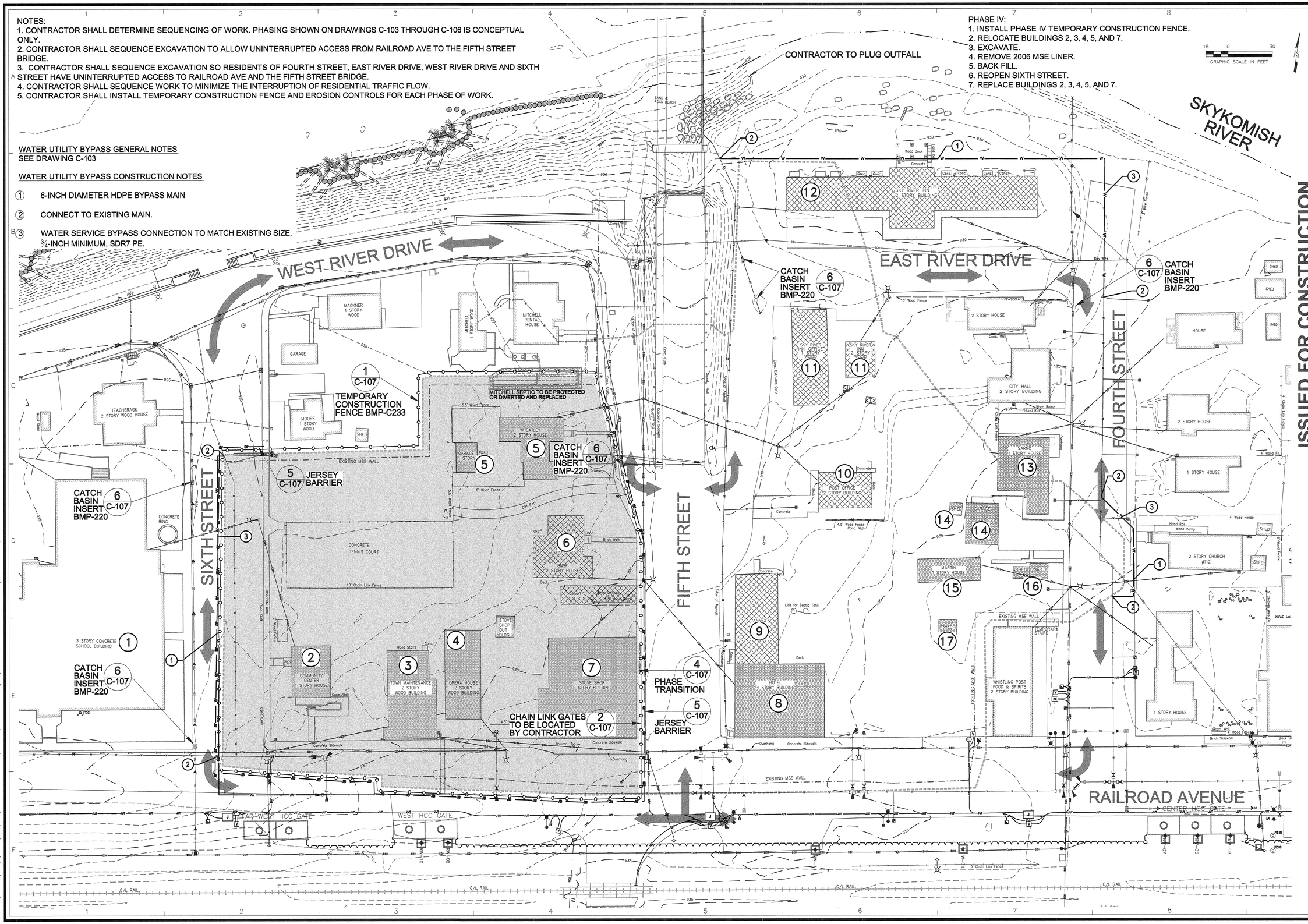
NOTES:
1. CONTRACTOR SHALL DETERMINE SEQUENCING OF WORK. PHASING SHOWN ON DRAWINGS C-103 THROUGH C-106 IS CONCEPTUAL ONLY.
2. CONTRACTOR SHALL SEQUENCE EXCAVATION TO ALLOW UNINTERRUPTED ACCESS FROM RAILROAD AVE TO THE FIFTH STREET BRIDGE.
3. CONTRACTOR SHALL SEQUENCE EXCAVATION SO RESIDENTS OF FOURTH STREET, EAST RIVER DRIVE, WEST RIVER DRIVE AND SIXTH STREET HAVE UNINTERRUPTED ACCESS TO RAILROAD AVE AND THE FIFTH STREET BRIDGE.
4. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE THE INTERRUPTION OF RESIDENTIAL TRAFFIC FLOW.
5. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCE AND EROSION CONTROLS FOR EACH PHASE OF WORK.

PHASE IV:
1. INSTALL PHASE IV TEMPORARY CONSTRUCTION FENCE.
2. RELOCATE BUILDINGS 2, 3, 4, 5, AND 7.
3. EXCAVATE.
4. REMOVE 2006 MSE LINER.
5. BACK FILL.
6. REOPEN SIXTH STREET.
7. REPLACE BUILDINGS 2, 3, 4, 5, AND 7.

WATER UTILITY BYPASS GENERAL NOTES
SEE DRAWING C-103

WATER UTILITY BYPASS CONSTRUCTION NOTES

1. 6-INCH DIAMETER HDPE BYPASS MAIN
2. CONNECT TO EXISTING MAIN.
3. WATER SERVICE BYPASS CONNECTION TO MATCH EXISTING SIZE, ¾-INCH MINIMUM, SDR7 PE.



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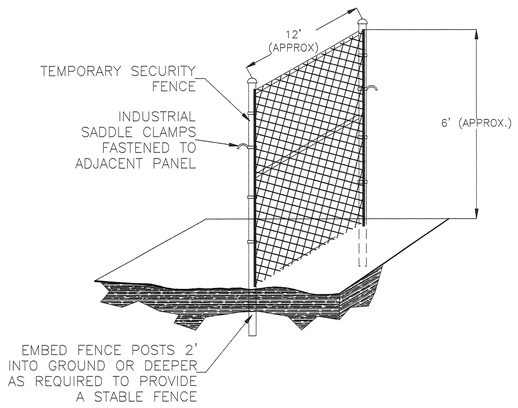
PROJ. NO.: 01140-204-0390 DATE: 05/15/09

PHASE IV TRAFFIC ROUTE AND SITE PREPARATION AND EROSION CONTROL

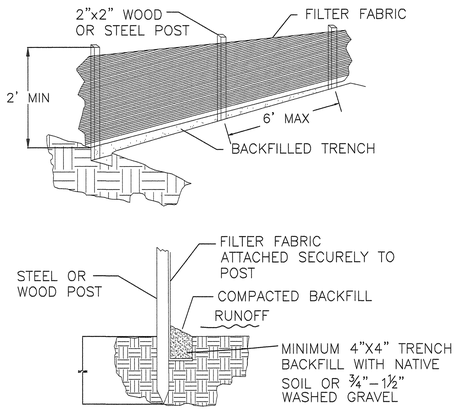
NWDZ REMEDIATION

DRAWING NUMBER: C-106
SHEET NUMBER:
REVISION 0



HIGH VISIBILITY FENCE
(BMP C103)

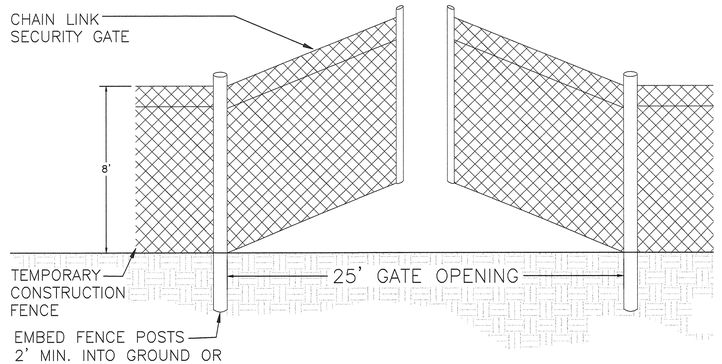
NOTE:
TEMPORARY CONSTRUCTION FENCE SHOWN ON THE DRAWING REPRESENTS HIGH VISABILITY FENCE COMBINED WITH SILT FENCE.



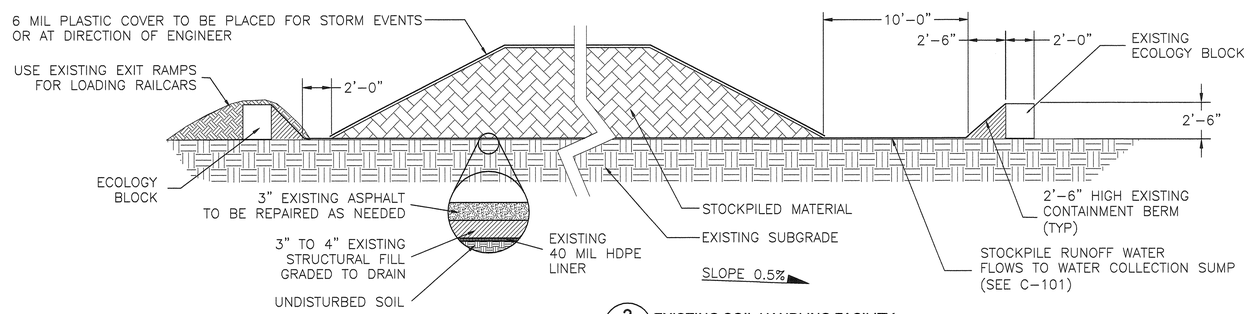
SILT FENCE
(BMP C223)

SILT FENCE NOTES:
1. BACK FILTER FABRIC WITH 2"x2"x14 GAUGE WIRE OR EQUIVALENT, IF STANDARD STRENGTH FABRIC IS USED. POST SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.
2. JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS OR EQUIVALENT TO ATTACH FABRIC TO POSTS.
3. THE MAXIMUM TRIBUTARY AREA IS LIMITED TO 0.25 ACRES PER 100 FEET OF FENCE.
4. INSPECT AND REPAIR FENCE EVERY 7 DAYS AND AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE HALF THE HEIGHT OF THE FENCE HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN STOCKPILE AREA FOR DISPOSAL.

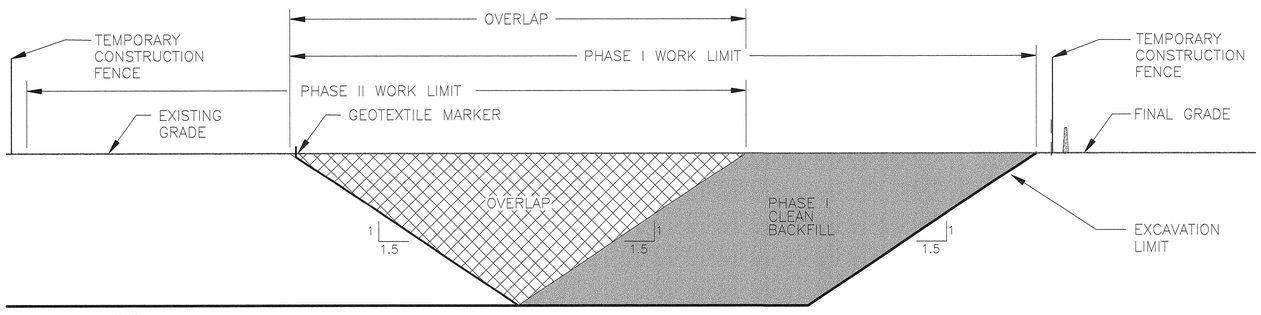
1 / C-102 TEMPORARY CONSTRUCTION FENCE
SCALE: NTS



2 / C-102 CHAIN LINK GATE
SCALE: NTS

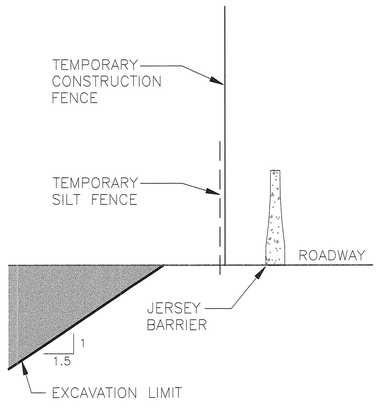


3 / C-102 EXISTING SOIL HANDLING FACILITY
SCALE: NTS

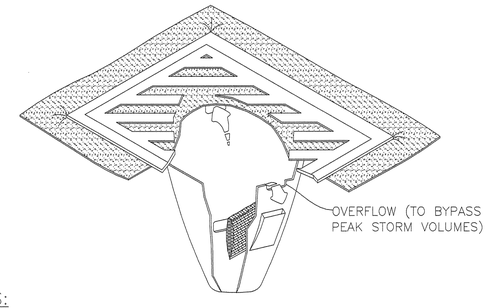


NOTES:
1. THE CONTRACTOR IS NOT REQUIRED TO BACKFILL BETWEEN PHASES.
2. IF THE CONTRACTOR DOES BACKFILL BETWEEN PHASES A GEOTEXTILE MARKER MUST BE INSTALLED ON SLOPE OF THE INITIAL PHASE TO IDENTIFY LIMITS OF CLEAN BACKFILL DURING SUBSEQUENT PHASES.

4 / C-103 PHASE TRANSITION
SCALE: NTS



5 / C-103 TYPICAL JERSEY BARRIER
SCALE: NTS



NOTES:
1. STORM DRAIN INLETS NEED TO BE REMOVED AT THE END OF THE JOB.

2. STORM DRAIN INLETS ARE ONLY TO BE INSTALLED IN DRAINAGE DEVICES PER THE MANUFACTURER'S RECOMMENDATIONS. CATCH BASIN INSERTS ARE NOT TO BE INSTALLED IN CURB INLETS.

3. INSERTS SHALL BE INSPECTED AND MAINTAINED WHEN A 1/2 INCH RAIN ACCUMULATES WITHIN A 24 HOUR PERIOD. CLEAN AND/OR REPLACE INSERT WHEN HALF OF THE TRAP IS FILLED WITH SEDIMENTS.

6 / C-102 CATCH BASIN INSERT
SCALE: NTS

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHK'D	DATE	APP'D	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

WINSTON CHEN — STATE OF WASHINGTON — REGISTERED — 39277 — PROFESSIONAL ENGINEER — 5/15/09

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PROJ. NO.: 01140–240–0390 | DATE: 05/15/09

SITE PREPARATION AND EROSION CONTROL DETAILS

NWDZ REMEDIATION

DRAWING NUMBER:
C-107

SHEET NUMBER:

REVISION 0

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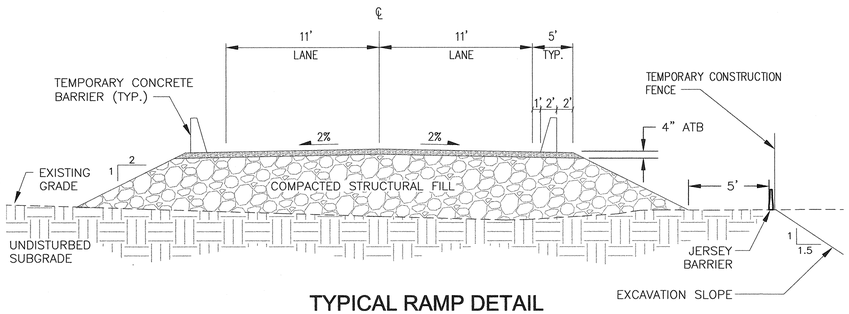
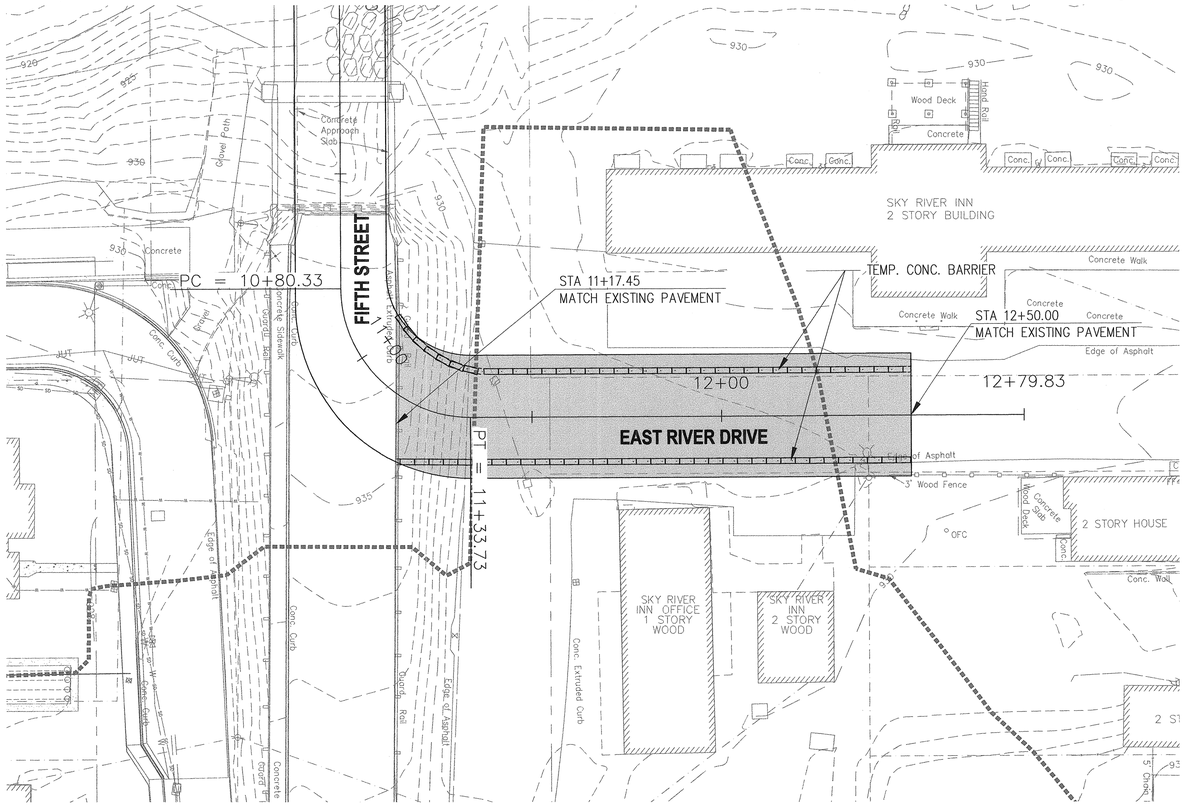
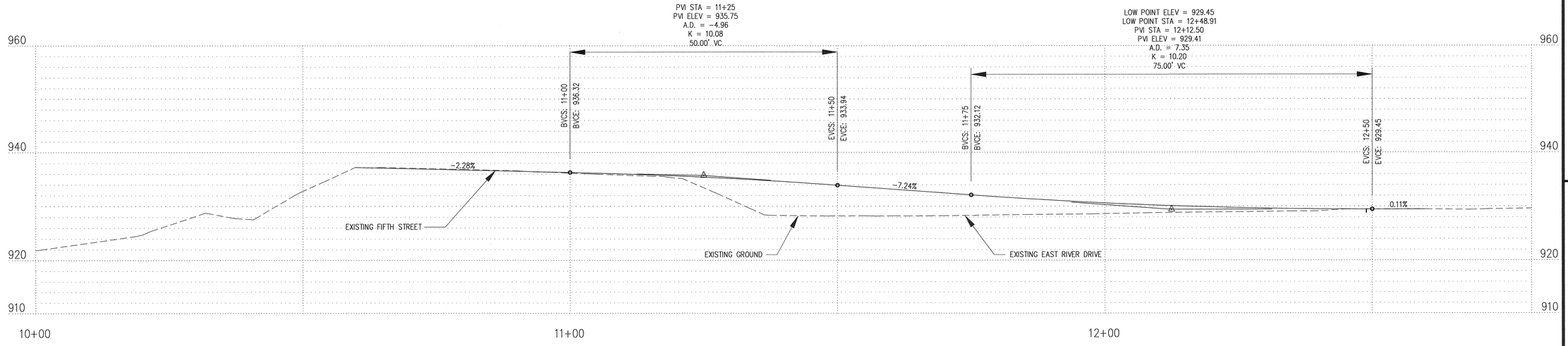
HORIZONTAL CURVE			
	STATION	NORTHING	EASTING
PC	10+80.33	259531.16	1510533.11
PT	11+33.73	259503.05	1510572.13
PI	11+14.33	259497.60	1510538.57
RADIUS = 34.00'			



TYPICAL RAMP DETAIL
SCALE: NTS





DETOUR ROUTE 5TH STREET CENTERLINE
SCALE:1"=20'

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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PROJ. NO.: 01140-204-0390
DATE: 05/15/09

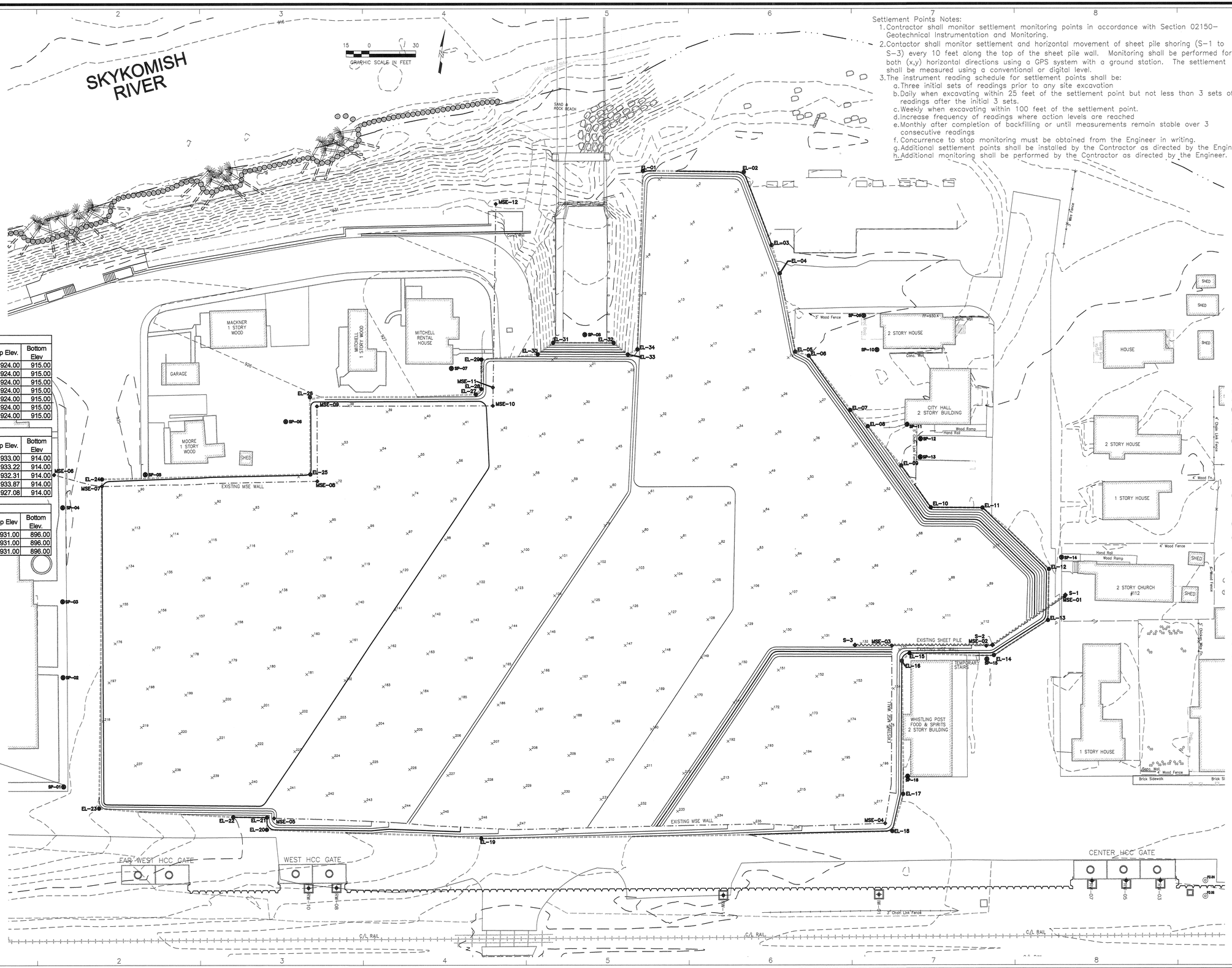
TEMPORARY BRIDGE
ACCESS RAMP

NWDZ REMEDIATION

DRAWING NUMBER: C-108
SHEET NUMBER:
REVISION 0

Settlement Points Notes:

1. Contractor shall monitor settlement monitoring points in accordance with Section 02150–Geotechnical Instrumentation and Monitoring.
2. Contactor shall monitor settlement and horizontal movement of sheet pile shoring (S–1 to S–3) every 10 feet along the top of the sheet pile wall. Monitoring shall be performed for both (x,y) horizontal directions using a GPS system with a ground station. The settlement shall be measured using a conventional or digital level.
3. The instrument reading schedule for settlement points shall be:
   a. Three initial sets of readings prior to any site excavation
   b. Daily when excavating within 25 feet of the settlement point but not less than 3 sets of readings after the initial 3 sets.
   c. Weekly when excavating within 100 feet of the settlement point.
   d. Increase frequency of readings where action levels are reached
   e. Monthly after completion of backfilling or until measurements remain stable over 3 consecutive readings
   f. Concurrence to stop monitoring must be obtained from the Engineer in writing.
   g. Additional settlement points shall be installed by the Contractor as directed by the Engineer
   h. Additional monitoring shall be performed by the Contractor as directed by the Engineer.



MSE WALL 2006				
POINT#	X (Easting)	Y (Northing)	Top Elev.	Bottom Elev
MSE-06	1510219.21	259326.67	924.00	915.00
MSE-07	1510250.79	259324.27	924.00	915.00
MSE-08	1510387.43	259349.04	924.00	915.00
MSE-09	1510379.72	259396.42	924.00	915.00
MSE-10	1510491.73	259414.45	924.00	915.00
MSE-11	1510489.89	259426.32	924.00	915.00
MSE-12	1510473.40	259543.13	924.00	915.00

MSE WALL 2008				
POINT#	X (Easting)	Y (Northing)	Top Elev.	Bottom Elev
MSE-01	1510874.89	259350.52	933.00	914.00
MSE-02	1510829.94	259310.93	933.22	914.00
MSE-03	1510769.81	259301.66	932.31	914.00
MSE-04	1510783.31	259187.93	933.87	914.00
MSE-05	1510393.61	259129.92	927.08	914.00

SHEET PILE 2008				
POINT#	X (Easting)	Y (Northing)	Top Elev	Bottom Elev.
S-1	1510875.18	259351.58	931.00	896.00
S-2	1510833.77	259312.13	931.00	896.00
S-3	1510746.24	259298.36	931.00	896.00

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CLEAN OVERBURDEN EXCAVATION PLAN

NWDZ REMEDIATION

DRAWING NUMBER: C-200

SHEET NUMBER:

REVISION 0

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PROPOSED MSE WALL				
POINT#	X (Easting)	Y (Northing)	Top Elev.	Bottom Elev.
PW-01	1510305.08	259154.52	924.00	910.00
PW-02	1510279.06	259319.55	924.00	910.00
PW-03	1510490.49	259426.41	928.00	915.00
PW-04	1510600.56	259443.53	928.00	915.00
PW-05	1510588.03	259556.33	928.00	915.00

Settlement Points Notes:

1. Contractor shall monitor settlement monitoring points in accordance with Section 02150–Geotechnical Instrumentation and Monitoring.
2. Contactor shall monitor settlement and horizontal movement of sheet pile shoring (S–1 to S–3) every 10 feet along the top of the sheet pile wall. Monitoring shall be performed for both (x,y) horizontal directions using a GPS system with a ground station. The settlement shall be measured using a conventional or digital level.
3. The instrument reading schedule for settlement points shall be:
   a. Three initial sets of readings prior to any site excavation
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   d. Increase frequency of readings where action levels are reached
   e. Monthly after completion of backfilling or until measurements remain stable over 3 consecutive readings
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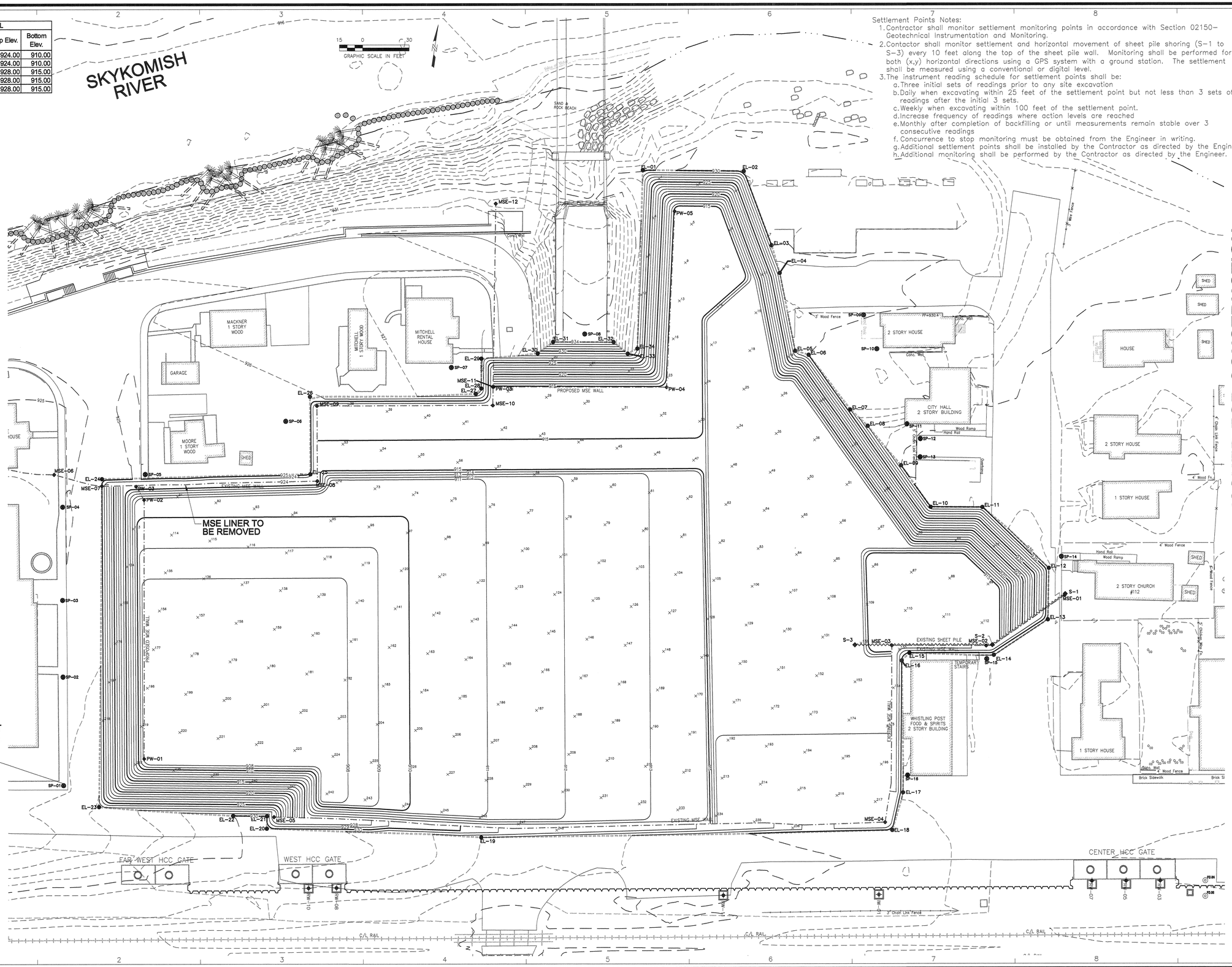
   g. Additional settlement points shall be installed by the Contractor as directed by the Engineer
   h. Additional monitoring shall be performed by the Contractor as directed by the Engineer.



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PROJ. NO.: 01140–204–0390 DATE: 05/15/09

EXCAVATION PLAN

NWDZ REMEDIATION

DRAWING NUMBER: C-201

SHEET NUMBER:

REVISION 0

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NOTES:
FINAL GRADES AND BUILDING LOCATIONS SHOWN HERE ARE APPROXIMATE.
CONTRACTOR SHALL RESTORE PROPERTIES PER PROPERTY SPECIFIC RESTORATION PLANS.

SKYKOMISH RIVER

15 0 30
GRAPHIC SCALE IN FEET

WEST RIVER DRIVE

EAST RIVER DRIVE

SIXTH STREET

FIFTH STREET

FOURTH STREET

RAILROAD AVENUE

MACKNER 1 STORY WOOD

MITCHELL 1 STORY WOOD

MITCHELL RENTAL HOUSE

GARAGE

MOORE 1 STORY WOOD

SHED

TEACHERAGE 2 STORY WOOD HOUSE

WHEATLEY 2 STORY HOUSE

GARAGE 1 STORY

EXISTING MSE WALL

PROPOSED MSE WALL

3 STORY CONCRETE SCHOOL BUILDING

COMMUNITY CENTER 1 STORY HOUSE

TOWN MAINTENANCE 2 STORY WOOD BUILDING

OPERA HOUSE 2 STORY WOOD BUILDING

STOVE SHOP 2 STORY BUILDING

HOTEL 4 STORY BUILDING

WHISTLING POST FOOD & SPIRITS 2 STORY BUILDING

TEMPORARY STAIRS

2 STORY HOUSE

CITY HALL 2 STORY BUILDING

SARNO 1 STORY HOUSE

GARAGE

MARTIN 1 STORY HOUSE

SHED

GAR.

2 STORY CHURCH #112

HOUSE

1 STORY HOUSE

SAND & ROCK BEACH

3' Wood Fence

4' Wood Fence

6' Chain Link Fence

Hand Rail

Wood Ramp

Brick Sidewalk

Conc. Wall

EAST WEST HCC GATE

WEST HCC GATE

CENTER HCC GATE

C/L RAIL

Rail Log

FD-2M

FD-3M

FD-4M

FD-5M

FD-7M

FD-8M

ISSUED FOR CONSTRUCTION

AECOM

AECOM Environment
Seattle, Washington
(206) 624-9349
www.aecom.com

NO	DRWN	DATE	REVISION	CHKD	DATE	APPV	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

FINAL GRADING PLAN

NWDZ REMEDIATION

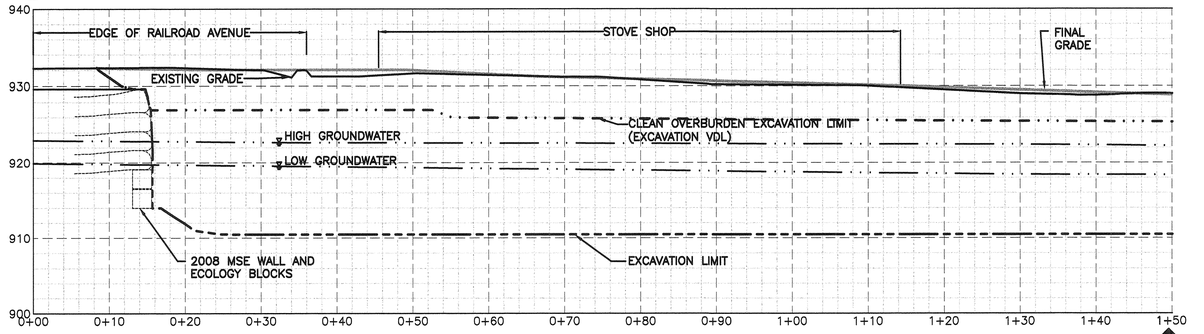
DRAWING NUMBER:
C-202

SHEET NUMBER:

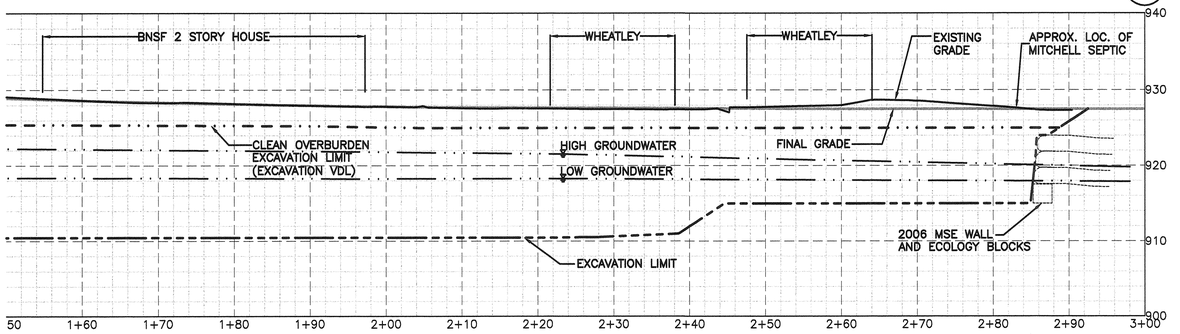
REVISION 0

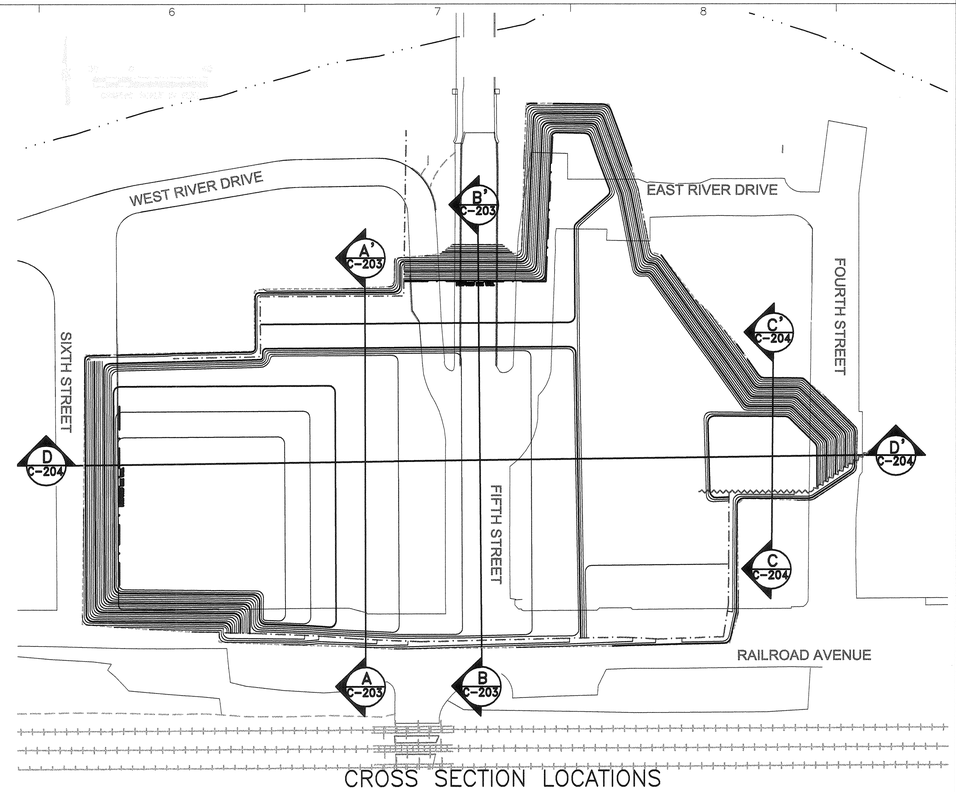
File: I:\PROJECTS\MOF\Skykomish\2009\CAD\ISSUED FOR CONSTRUCTION\01-15-09\01140-2009-C01.dwg Layout: C-202 User: VanAuvd Plotted: May 18, 2009 - 2:17pm Xref's:

A C-203 SOUTH



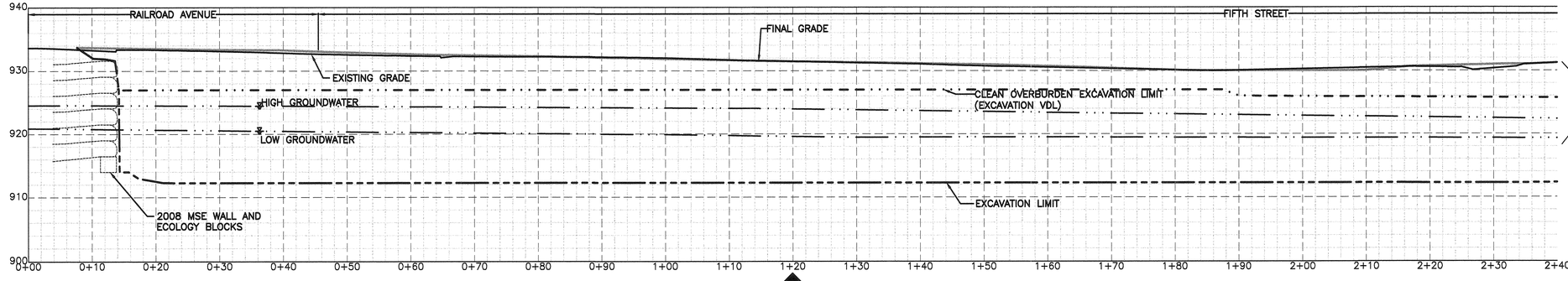
NORTH A' C-203



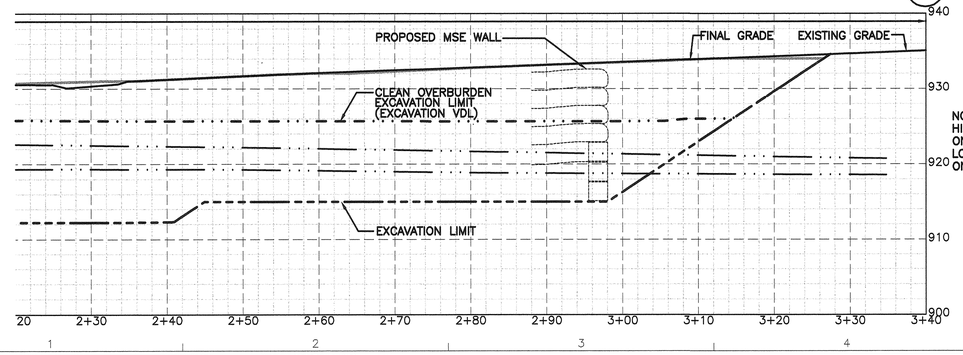


CROSS SECTION LOCATIONS

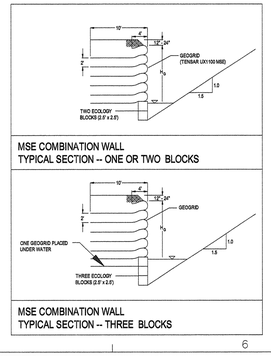
B C-203 SOUTH



NORTH B' C-203

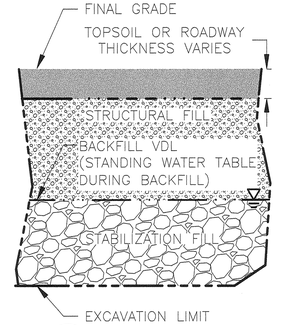


NOTE:
HIGH GROUNDWATER BASED ON MARCH 2008 EVENT.
LOW GROUNDWATER BASED ON SEPTEMBER 2008 EVENT.



NOTES:

1. CROSS SECTION SCALE IS 1"=10'.
2. MAX BLOCK HEIGHT WITH NO GRID = 2 BLOCKS.
3. MAX NUMBER OF GRIDS BENEATH WATER = 1 GRID.
4. IF MORE THAN THREE ECOLOGY BLOCKS ARE REQUIRED TO CONSTRUCT THE MSE WALL ABOVE THE WATER TABLE THEN THE CONTRACTOR SHALL PROVIDE AN ALTERNATE DESIGN.
5. IN FIELD, ENGINEER MAY ALLOW STEEPER SIDE SLOPES AND MOVE WALL TO TOE OF THE SLOPE.
6. CONTRACTOR SHALL SMOOTH AND FILL IN SUBGRADE TO EVEN OUT FOUNDATION FOR BLOCKS.
7. EXISTING SITE, TOPOGRAPHICAL, AND UTILITY DATA ARE BASED ON DRAWINGS PROVIDED TO JACOBS ASSOCIATES BY AECOM.
8. STABILIZATION FILL SHALL BE PLACED TO STANDING WATER ELEVATION IN EXCAVATION (BACKFILL VDL).
9. STRUCTURAL FILL TO BE PLACED ABOVE THE BACKFILL VDL.



1 C-202 BACKFILL
SCALE: NTS

ISSUED FOR CONSTRUCTION

EXCAVATION CROSS SECTIONS A-A' & B-B'

NWDZ REMEDIATION

BURLINGTON NORTHERN FORMER MAINTENENCE AND FUELING FACILITY SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

AECOM

AECOM Environment
Seattle, Washington
(206) 624-9349
www.aecom.com

WINSTON G. HEN — STATE OF WASHINGTON — 30227 — REGISTERED PROFESSIONAL ENGINEER — 5/15/09

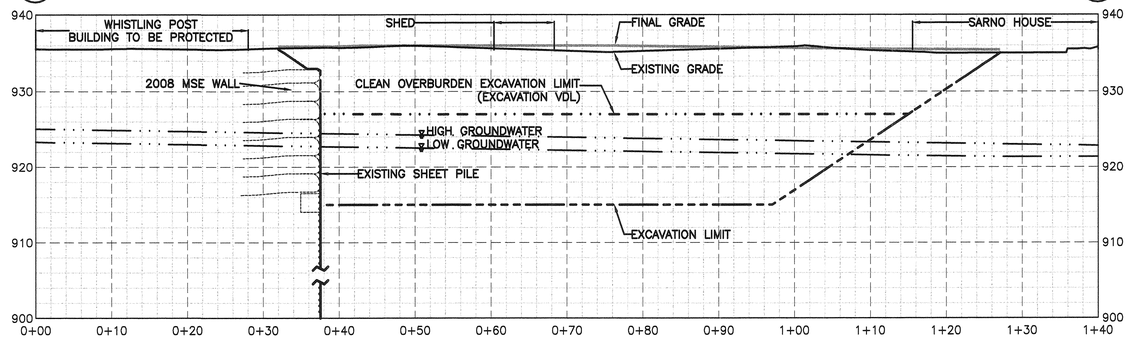
DRAWING NUMBER: C-203

SHEET NUMBER: 1 OF 2

REVISION 0

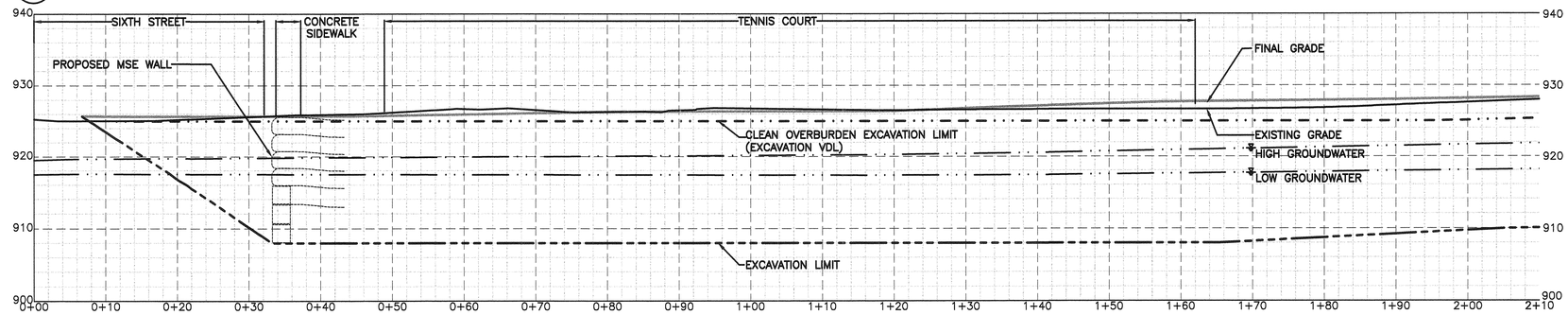
File: P:\PROJECTS\BNSF\Skykomish\2009\CAD\ISSUED FOR CONSTRUCTION\05-15-09\01140-2009-C03.dwg Layout: XS A-B User: VanVeelt Plotted: May 13, 2009 - 2:17pm Xref:

C C-203 SOUTH'

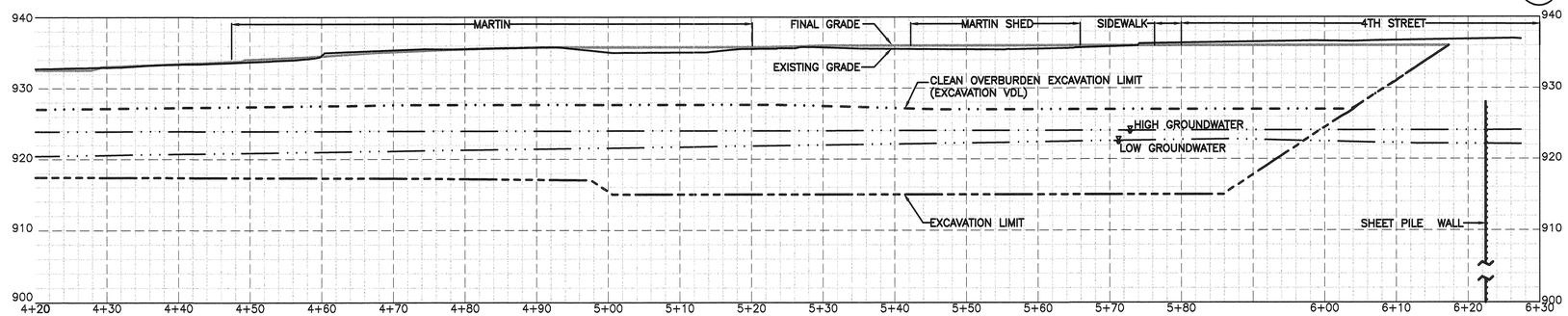


NORTH C' C-203

D C-203 WEST



EAST D' C-203



ISSUED FOR CONSTRUCTION

EXCAVATION CROSS SECTIONS C-C' & D-D'

NWDZ REMEDIATION

BURLINGTON NORTHERN FORMER MAINTENENCE AND FUELING FACILITY SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

DRAWING NUMBER: C-204

SHEET NUMBER: 2 OF 2

REVISION 0

NO	BRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

AECOM

AECOM Environment
Seattle, Washington
(206) 624-9349
www.aecom.com

WINSTON-GREEN MILLER WASHINGTON 39227 REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

5/15/09

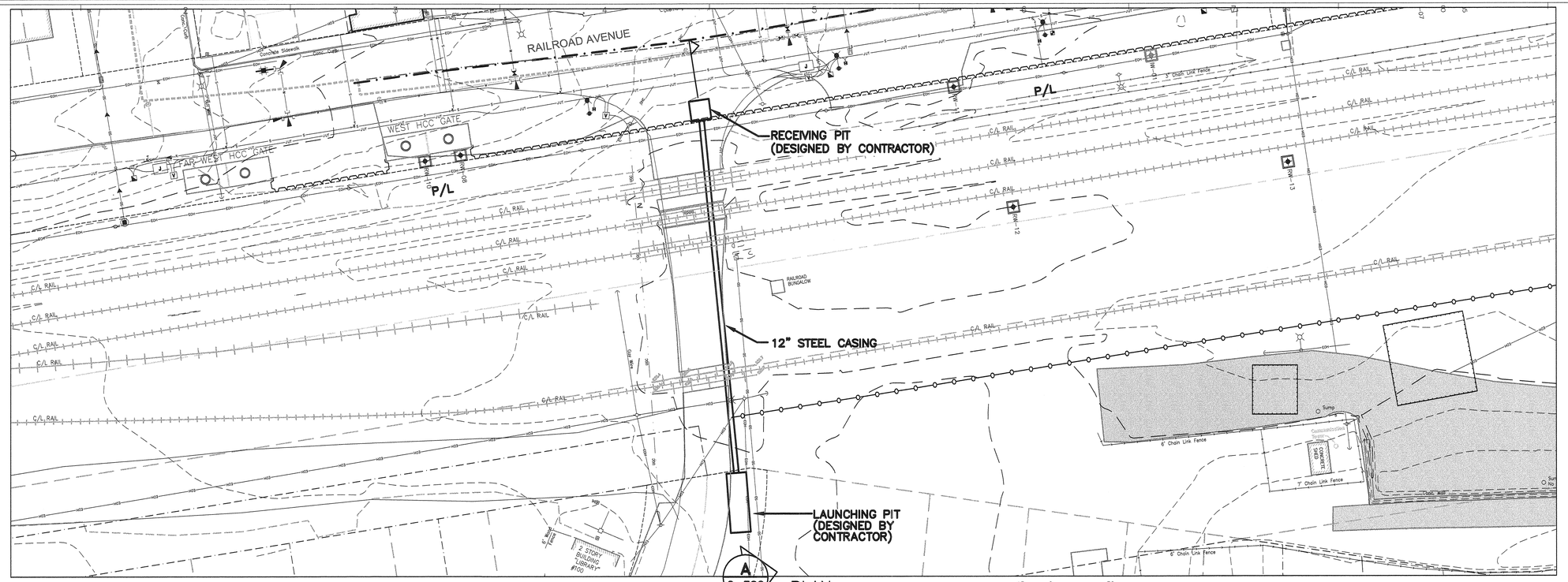
File: I:\PROJECTS\BNSF\Skykomish\2009\CADD\ISSUED FOR CONSTRUCTION\05-15-09\01140-2009-C03.dwg Layout: XS C-D User: VeselkoB Plotted: May 19, 2009 - 2:10pm Xref's:

EXCAVATION CONTROL POINTS									
POINT #	X (EASTING)	Y (NORTHING)	EXISTING GRADE	CLEAN OVERBURDEN EXCAVATION GRADE[1]		EXCAVATION GRADE[2]		FINAL GRADE[3]	
			ELEVATION	ELEVATION	CUT	ELEVATION	CUT	ELEVATION	FILL
1	1,510,575	259,575	929.13	927.00	2.13	926.31	0.69	929.65	3.34
2	1,510,600	259,575	930.53	927.00	3.53	923.90	3.10	931.00	7.10
3	1,510,625	259,575	930.64	927.00	3.64	923.75	3.25	931.00	7.25
4	1,510,575	259,550	928.38	927.00	1.38	923.77	3.23	929.00	5.23
5	1,510,600	259,550	930.93	927.00	3.93	915.00	12.00	930.98	15.98
6	1,510,625	259,550	930.95	927.00	3.95	915.46	11.54	931.00	15.54
7	1,510,650	259,550	930.20	929.92	0.28	929.92	0.00	930.25	0.32
8	1,510,575	259,525	928.11	927.00	1.11	925.61	1.39	929.00	3.39
9	1,510,600	259,525	928.98	927.00	1.98	915.00	12.00	929.00	14.00
10	1,510,625	259,525	929.21	927.00	2.21	915.00	12.00	929.00	14.00
11	1,510,650	259,525	929.32	927.00	2.32	921.63	5.37	929.00	7.37
12	1,510,575	259,500	928.67	927.45	1.22	927.45	0.00	929.00	1.55
13	1,510,600	259,500	928.29	927.00	1.29	915.00	12.00	929.00	14.00
14	1,510,625	259,500	928.31	927.00	1.31	915.90	11.10	929.00	13.10
15	1,510,650	259,500	928.62	927.00	1.62	917.33	9.67	929.00	11.67
16	1,510,600	259,475	928.12	927.00	1.12	915.00	12.00	929.00	14.00
17	1,510,625	259,475	929.14	927.00	2.14	917.07	9.93	929.00	11.93
18	1,510,650	259,475	929.44	927.00	2.44	917.62	9.38	929.38	11.76
19	1,510,675	259,475	929.74	927.00	2.74	925.57	1.43	929.70	4.13
20	1,510,525	259,450	933.42	926.67	6.75	926.67	0.00	933.44	6.77
21	1,510,550	259,450	934.02	926.00	8.02	924.11	1.89	934.00	9.89
22	1,510,575	259,450	928.96	925.97	2.99	921.55	4.41	929.28	7.72
23	1,510,600	259,450	928.48	927.00	1.48	915.00	12.00	929.00	14.00
24	1,510,625	259,450	928.64	927.00	1.64	916.25	10.75	929.00	12.75
25	1,510,650	259,450	929.74	927.00	2.74	917.55	9.45	929.43	11.88
26	1,510,675	259,450	929.95	927.00	2.95	917.87	9.13	929.89	12.02
27	1,510,700	259,450	930.79	927.00	3.79	922.63	4.37	930.52	7.88
28	1,510,500	259,425	928.13	925.68	2.45	915.00	10.68	928.19	13.19
29	1,510,525	259,425	930.76	925.41	5.35	915.00	10.41	930.75	15.75
30	1,510,550	259,425	933.05	925.67	7.38	915.00	10.67	933.04	18.04
31	1,510,575	259,425	929.85	925.94	3.91	915.00	10.94	929.98	14.98
32	1,510,600	259,425	928.71	927.00	1.71	915.00	12.00	929.00	14.00
33	1,510,625	259,425	928.35	927.00	1.35	915.00	12.00	929.09	14.09
34	1,510,650	259,425	929.84	927.00	2.84	917.45	9.55	929.76	12.31
35	1,510,675	259,425	931.07	927.00	4.07	917.56	9.44	930.66	13.11
36	1,510,700	259,425	933.10	927.00	6.10	917.65	9.35	933.20	15.55
37	1,510,725	259,425	933.40	927.00	6.40	922.92	4.08	933.65	10.73
38	1,510,400	259,400	925.98	925.00	0.98	924.00	1.00	926.16	2.16
39	1,510,425	259,400	926.33	925.00	1.33	915.00	10.00	926.47	11.47
40	1,510,450	259,400	927.48	925.00	2.48	915.00	10.00	927.06	12.06
41	1,510,475	259,400	928.54	925.00	3.54	915.00	10.00	927.68	12.68
42	1,510,500	259,400	928.48	925.11	3.37	915.00	10.11	928.10	13.10
43	1,510,525	259,400	929.00	925.38	3.62	915.00	10.38	929.17	14.17
44	1,510,550	259,400	932.09	925.64	6.45	915.00	10.64	932.00	17.00
45	1,510,575	259,400	930.79	925.91	4.88	915.00	10.91	930.79	15.79
46	1,510,600	259,400	929.11	927.00	2.11	915.00	12.00	929.33	14.33
47	1,510,625	259,400	928.71	927.00	1.71	915.00	12.00	929.64	14.64
48	1,510,650	259,400	930.93	927.00	3.93	917.16	9.84	930.97	13.82
49	1,510,675	259,400	931.33	927.00	4.33	917.25	9.75	931.23	13.98
50	1,510,700	259,400	933.10	927.00	6.10	917.34	9.66	933.51	16.17
51	1,510,725	259,400	933.86	927.00	6.86	917.55	9.45	933.96	16.41
52	1,510,750	259,400	934.63	927.00	7.63	923.20	3.80	934.57	11.37
53	1,510,400	259,375	925.32	925.00	0.32	915.00	10.00	925.94	10.94
54	1,510,425	259,375	926.44	925.00	1.44	915.00	10.00	926.09	11.09
55	1,510,450	259,375	927.37	925.00	2.37	915.00	10.00	926.97	11.97
56	1,510,475	259,375	927.69	925.00	2.69	915.00	10.00	927.81	12.81
57	1,510,500	259,375	928.13	925.05	3.08	915.00	10.05	928.51	13.51
58	1,510,525	259,375	928.59	925.33	3.26	912.87	12.46	928.88	16.02
59	1,510,550	259,375	931.09	925.60	5.49	912.12	13.48	931.02	18.90
60	1,510,575	259,375	930.63	925.88	4.75	912.55	13.32	930.89	18.34
61	1,510,600	259,375	929.46	927.00	2.46	913.01	13.99	929.66	16.65
62	1,510,625	259,375	930.74	927.00	3.74	913.73	13.27	930.45	16.72
63	1,510,650	259,375	931.41	927.00	4.41	917.08	9.92	931.36	14.28
64	1,510,675	259,375	931.56	927.00	4.56	917.02	9.98	931.57	14.55
65	1,510,700	259,375	932.96	927.00	5.96	917.03	9.97	933.14	16.11
66	1,510,725	259,375	934.16	927.00	7.16	917.12	9.88	934.37	17.25
67	1,510,750	259,375	934.93	927.00	7.93	917.57	9.43	934.98	17.41
68	1,510,775	259,375	935.58	927.09	8.49	922.89	4.20	935.39	12.51
69	1,510,800	259,375	935.62	927.00	8.62	920.57	6.43	935.64	15.07
70	1,510,825	259,375	935.94	927.00	8.94	926.27	0.73	935.94	9.68
71	1,510,375	259,350	925.80	925.00	0.80	924.42	0.58	925.57	1.15
72	1,510,400	259,350	925.99	925.00	0.99	910.94	14.06	925.84	14.89
73	1,510,425	259,350	926.50	925.00	1.50	910.76	14.24	926.38	15.62
74	1,510,450	259,350	926.98	925.00	1.98	910.59	14.41	927.05	16.46
75	1,510,475	259,350	927.61	925.00	2.61	910.57	14.43	927.77	17.19
76	1,510,500	259,350	928.52	925.18	3.34	911.05	14.13	928.57	17.52
77	1,510,525	259,350	928.78	925.45	3.33	911.54	13.91	929.05	17.51
78	1,510,550	259,350	930.66	925.72	4.94	912.03	13.69	930.00	17.97
79	1,510,575	259,350	930.28	925.99	4.29	912.48	13.51	930.40	17.92
80	1,510,600	259,350	929.92	927.00	2.92	912.93	14.07	930.00	17.07
81	1,510,625	259,350	931.10	927.00	4.10	913.60	13.40	930.89	17.29
82	1,510,650	259,350	931.12	927.00	4.12	917.24	9.76	931.57	14.33
83	1,510,675	259,350	932.04	927.00	5.04	917.19	9.81	932.01	14.83

EXCAVATION CONTROL POINTS									
POINT #	X (EASTING)	Y (NORTHING)	EXISTING GRADE	CLEAN OVERBURDEN EXCAVATION GRADE[1]		EXCAVATION GRADE[2]		FINAL GRADE[3]	
			ELEVATION	ELEVATION	CUT	ELEVATION	CUT	ELEVATION	FILL
84	1,510,700	259,350	933.38	927.00	6.38	917.13	9.87	933.02	15.89
85	1,510,725	259,350	934.77	927.01	7.76	917.07	9.93	934.72	17.65
86	1,510,750	259,350	935.13	927.36	7.77	915.00	12.36	935.14	20.14
87	1,510,775	259,350	936.00	927.39	8.61	915.00	12.39	935.67	20.67
88	1,510,800	259,350	936.49	927.00	9.49	915.00	12.00	935.94	20.94
89	1,510,825	259,350	936.32	927.00	9.32	915.00	12.00	936.00	21.00
90	1,510,275	259,325	925.28	925.00	0.28	914.36	10.64	925.00	10.64
91	1,510,300	259,325	925.34	925.00	0.34	911.35	13.65	925.13	13.77
92	1,510,325	259,325	925.50	925.00	0.50	910.68	14.32	925.44	14.76
93	1,510,350	259,325	925.70	925.00	0.70	910.37	14.63	925.59	15.23
94	1,510,375	259,325	925.89	925.00	0.89	910.09	14.91	925.73	15.64
95	1,510,400	259,325	925.47	925.00	0.47	909.87	15.13	925.95	16.08
96	1,510,425	259,325	926.49	925.00	1.49	909.67	15.33	926.66	16.99
97	1,510,450	259,325	927.24	925.00	2.24	909.96	15.04	927.30	17.35
98	1,510,475	259,325	927.81	925.07	2.74	910.48	14.59	927.80	17.33
99	1,510,500	259,325	928.66	925.30	3.36	910.97	14.33	928.59	17.62
100	1,510,525	259,325	929.89	925.57	4.32	911.46	14.11	929.31	17.84
101	1,510,550	259,325	930.22	925.85	4.37	911.96	13.89	930.00	18.04
102	1,510,575	259,325	930.14	927.00	3.14	912.41	14.59	930.06	17.65
103	1,510,600	259,325	930.47	927.00	3.47	912.86	14.14	930.58	17.72
104	1,510,625	259,325	930.88	927.00	3.88	913.47	13.53	931.36	17.89
105	1,510,650	259,325	932.15	927.00	5.15	917.41	9.59	932.04	14.63
106	1,510,675	259,325	932.62	927.00	5.62	917.35	9.65	932.40	15.05
107	1,510,700	259,325	933.57	927.21	6.36	917.29	9.91	933.87	16.58
108	1,510,725	259,325	935.39	927.60	7.79	917.23	10.37	935.28	18.05
109	1,510,750	259,325	935.04	927.67	7.37	915.06	12.62	935.80	20.74
110	1,510,775	259,325	935.37	927.63	7.74	915.00	12.63	935.96	20.96
111	1,510,800	259,325	936.17	927.00	9.17	915.00	12.00	936.00	21.00
112	1,510,825	259,325	936.86	927.00	9.86	915.00	12.00	936.00	21.00
113	1,510,275	259,300	925.42	925.00	0.42	911.69	13.31	925.09	13.39
114	1,510,300	259,300	925.39	925.00	0.39	909.43	15.57	925.40	15.96
115	1,510,325	259,300	925.73	925.00	0.73	909.23	15.77	925.73	16.50
116	1,510,350	259,300	925.89	925.00	0.89	909.03	15.97	925.89	16.86
117	1,510,375	259,300	926.04	925.00	1.04	908.83	16.17	925.98	17.15
118	1,510,400	259,300	926.12	925.00	1.12	908.63	16.37	926.31	17.68
119	1,510,425	259,300	926.47	925.00	1.47	908.58	16.42	927.32	18.74
120	1,510,450	259,300	927.40	925.00	2.40	909.76	15.24	927.66	17.90
121	1,510,475	259,300	928.18	925.31	2.87	910.40	14.91	928.13	17.73
122	1,510,500	259,300	928.76	925.43	3.33	910.89	14.54	928.78	17.89
123	1,510,525	259,300	929.52	925.70	3.82	911.38	14.32	929.58	18.19
124	1,510,550	259,300	930.05	925.97	4.08	911.88	14.10	930.30	18.43
125	1,510,575	259,300	930.63	927.00	3.63	912.34	14.66	930.80	18.46
126	1,510,600	259,300	930.93	927.00	3.93	912.78	14.22	931.08	18.29
127	1,510,625	259,300	931.83	927.00	4.83	913.35	13.65	931.81	18.46
128	1,510,650	259,300	932.30	927.00	5.30	915.62	11.38	932.45	16.83
129	1,510,675	259,300	933.04	927.38	5.66	917.52	9.86	933.15	15.63
130	1,510,700	259,300	934.64	927.80	6.84	917.46	10.34	934.27	16.81
131	1,510,725	259,300	935.61	927.93	7.68	917.28	10.64	935.44	18.16
132	1,510,750	259,300	935.33	927.99	7.34	917.02	10.97	936.00	18.98
133	1,510,775	259,300	936.04	932.92	3.12	932.92	0.00	935.85	2.92
134	1,510,275	259,275	925.63	925.00	0.63	914.37	10.63	925.34	10.97
135	1,510,300	259,275	926.09	925.00	1.09	908.20	16.80	925.56	17.35
136	1,510,325	259,275	926.26	925.00	1.26	908.00	17.00	925.97	17.97
137	1,510,350	259,275	926.56	925.00	1.56	908.00	17.00	926.18	18.18
138	1,510,375	259,275	926.40	925.00	1.40	908.00	17.00	926.27	18.27
139	1,510,400	259,275	926.55	925.00	1.55	908.00	17.00	927.09	19.09
140	1,510,425	259,275	926.69	925.00	1.69	908.32	16.68	927.73	19.41
141	1,510,450	259,275	927.49	925.02	2.47	909.55	15.46	928.11	18.55
142	1,510,475	259,275	928.69	925.42	3.27	910.32	15.10	928.72	18.40
143	1,510,500	259,275	929.40	925.55	3.85	910.81	14.74	929.45	18.64
144	1,510,525	259,275	930.28	925.83	4.45	911.30	14.52	930.23	18.93
145	1,510,550	259,275	930.24	927.00	3.24	911.80	15.20	930.86	19.07
146	1,510,575	259,275	931.16	927.00	4.16	912.26	14.74	931.26	18.99
147	1,510,600	259,275	931.39	927.00	4.39	912.71	14.29	931.54	18.82
148	1,510,625	259,275	932.24	927.00	5.24	913.24	13.76	932.16	18.92
149	1,510,650	259,275	933.15	927.02	6.13	913.94	13.08	933.00	19.06
150	1,510,675	259,275	933.45	927.69	5.76	917.68	10.01	933.50	15.82
151	1,510,700	259,275	935.05	932.00	3.05	917.60	14.40	934.68	17.08
152	1,510,725	259,275	935.59	932.00	3.59	917.33	14.67	935.51	18.17
153	1,510,750	259,275	936.00	932.00	4.00	917.34	14.66	935.95	18.61
154	1,510,775	259,275	936.19	932.81	3.38	932.81	0.00	935.85	3.04
155	1,510,275	259,250	925.37	925.00	0.37	916.97	8.03	925.60	8.63
156	1,510,300	259,250	925.98	925.00	0.98	908.00	17.00	925.71	17.71
157	1,510,325	259,250	926.42	925.00	1.42	908.00	17.00	926.16	18.16
158	1,510,350	259,250	926.54	925.00	1.54	908.00	17.00	926.46	18.46
159	1,510,375	259,250	926.74	925.00	1.74	908.00	17.00	926.82	18.82
160	1,510,400	259,250	926.96	925.00	1.96	908.00	17.00	927.73	19.73
161	1,510,425	259,250	927.37	925.00	2.37	908.12	16.88	928.23	20.11
162	1,510,450	259,250	928.58	925.33	3.25	909.35	15.98	928.76	19.41
163	1,510,475	259,250	929.38	925.53	3.85	910.24	15.29	929.37	19.13
164	1,510,500	259,250	929.53	925.68	3.85	910.73	14.95	930.11	19.38
165	1,510,525	259,250	930.35	925.95	4.40	911.22	14.73	930.74	19.52
166	1,510,550	259,250	931.20	927.00	4.20	911.72	15.28	931.17	19.46

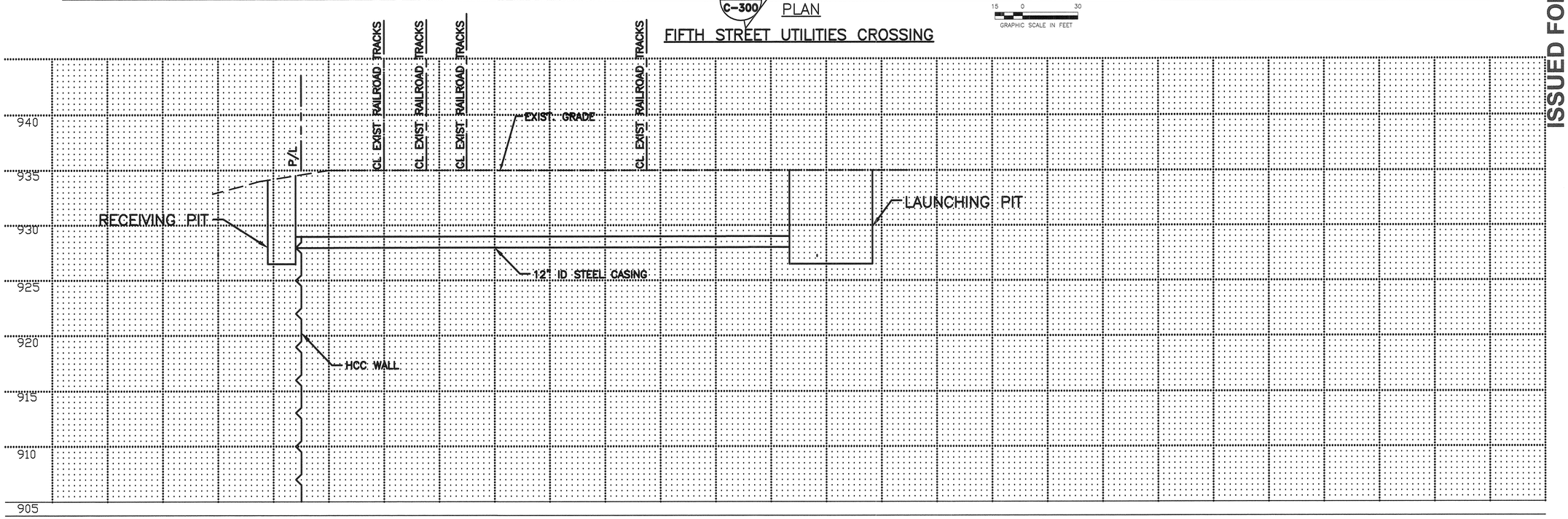
EXCAVATION CONTROL POINTS									
POINT #	X (EASTING)	Y (NORTHING)	EXISTING GRADE	CLEAN OVERBURDEN EXCAVATION GRADE[1]		EXCAVATION GRADE[2]		FINAL GRADE[3]	
			ELEVATION	ELEVATION	CUT	ELEVATION	CUT	ELEVATION	FILL
167	1,510,575	259,250	931.66	927.00	4.66	912.19	14.81	931.59	19.40
168	1,510,600	259,250	932.04	927.00	5.04	912.64	14.36	931.99	19.35
169	1,510,625	259,250	932.51	927.00	5.51	913.13	13.87	932.56	19.43
170	1,510,650	259,250	933.28	927.33	5.95	913.82	13.51	933.43	19.61
171	1,510,675	259,250	933.77	928.09	5.68	917.84	10.24	934.03	16.18
172	1,510,700	259,250	934.91	932.04	2.87	917.66	14.38	934.71	17.05
173	1,510,725	259,250	935.20	932.00	3.20	917.74	14.26	935.33	17.59
174	1,510,750	259,250	935.16	932.00	3.16	917.82	14.18	935.83	18.00
175	1,510,775	259,250	935.14	932.00	3.14	917.91	14.09	936.00	18.09
176	1,510,275	259,225	925.05	925.00	0.05	919.75	5.25	925.87	6.12
177	1,510,300	259,225	925.10	925.00	0.10	908.00	17.00	925.98	17.98
178	1,510,325	259,225	926.43	925.00	1.43	908.00	17.00	926.37	18.37
179	1,510,350	259,225	926.39	925.00	1.39	908.00	17.00	926.75	18.75
180	1,510,375	259,225	927.11	925.00	2.11	908.00	17.00	927.50	19.50
181	1,510,400	259,225	927.55	925.00	2.55	908.00	17.00	928.28	20.28
182	1,510,425	259,225	928.68	925.00	3.68	908.00	17.00	928.82	20.82
183	1,510,450	259,225	929.56	925.62	3.94	909.16	16.47	929.41	20.25
184	1,510,475	259,225	929.70	925.63	4.07	910.15	15.48	929.98	19.82
185	1,510,500	259,225	930.43	925.81	4.62	910.65	15.16	930.63	19.98
186	1,510,525	259,225	931.21	927.00	4.21	911.14	15.86	931.19	20.05
187	1,510,550	259,225	931.85	927.00	4.85	911.64	15.36	931.64	20.01
188	1,510,575	259,225	932.01	927.00	5.01	912.12	14.88	932.04	19.93
189	1,510,600	259,225	932.43	927.00	5.43	912.57	14.43	932.40	19.83
190	1,510,625	259,225	932.83	927.00	5.83	913.02	13.98	932.89	19.87
191	1,510,650	259,225	933.46	927.64	5.82	913.69	13.95	933.90	20.21
192	1,510,675	259,225	934.15	932.00	2.15	918.00	14.00	934.37	16.37
193	1,510,700	259,225	935.37	931.99	3.38	918.00	13.99	934.78	16.78
194	1,510,725	259,225	935.31	932.00	3.31	918.00	14.00	935.40	17.40
195	1,510,750	259,225	935.74	932.00	3.74	918.00	14.00	935.93	17.93
196	1,510,775	259,225	935.79	932.00	3.79	918.00	14.00	936.00	18.00
197	1,510,275	259,200	926.69	925.00	1.69	922.44	2.56	926.14	3.71
198	1,510,300	259,200	926.22	925.00	1.22	908.00	17.00	926.04	18.04
199	1,510,325	259,200	926.88	925.00	1.88	908.00	17.00	926.60	18.60
200	1,510,350	259,200	927.45	925.00	2.45	908.00	17.00	927.25	19.25
201	1,510,375	259,200	928.13	925.00	3.13	908.00	17.00	928.20	20.20
202	1,510,400	259,200	928.67	925.00	3.67	908.00	17.00	928.80	20.80
203	1,510,425	259,200	929.30	925.28	4.02	908.00	17.28	929.52	21.52
204	1,510,450	259,200	929.97	925.73	4.24	908.96	16.77	930.14	21.18
205	1,510,475	259,200	930.67	925.74	4.93	910.07	15.67	930.63	20.56
206	1,510,500	259,200	931.26	925.93	5.33	910.57	15.36	931.12	20.55
207	1,510,525	259,200	931.78	927.00	4.78	911.06	15.94	931.58	20.51
208	1,510,550	259,200	932.25	927.00	5.25	911.56	15.44	932.05	20.50
209	1,510,575	259,200	932.06	927.00	5.06	912.04	14.96	932.40	20.35
210	1,510,600	259,200	932.30	927.00	5.30	912.49	14.51	932.90	20.40
211	1,510,625	259,200	933.10	927.28	5.82	912.94	14.34	933.41	20.46
212	1,510,650	259,200	933.87	927.95	5.92	913.58	14.37	934.24	20.66
213	1,510,675	259,200	934.69	931.99	2.70	918.00	13.99	934.64	16.64
214	1,510,700	259,200	935.16	931.98	3.18	918.00	13.98	935.00	17.00
215	1,510,725	259,200	935.58	932.00	3.58	918.00	14.00	935.41	17.41
216	1,510,750	259,200	935.81	932.00	3.81	918.00	14.00	935.84	17.84
217	1,510,775	259,200	935.93	932.00	3.93	918.00	14.00	935.96	17.96
218	1,510,275	259,175	926.32	925.12	1.20	925.12	0.00	926.47	1.34
219	1,510,300	259,175	926.87	925.00	1.87	908.67	16.33	926.58	17.91
220	1,510,325	259,175	928.01	925.00	3.01	908.00	17.00	927.03	19.03
221	1,510,350	259,175	928.94	925.00	3.94	908.00	17.00	927.83	19.83
222	1,510,375	259,175	928.73	925.00	3.73	908.00	17.00	928.89	20.89
223	1,510,400	259,175	929.18	925.00	4.18	908.00	17.00	929.64	21.64
224	1,510,425	259,175	930.14	925.59	4.55	908.00	17.59	930.24	22.24
225	1,510,450	259,175	930.89	925.84	5.05	908.76	17.08	930.81	22.05
226	1,510,475	259,175	931.54	925.85	5.69	909.99	15.86	931.45	21.46
227	1,510,500	259,175	931.63	927.00	4.63	910.49	16.51	932.00	21.51
228	1,510,525	259,175	932.20	927.00	5.20	910.98	16.02	932.08	21.10
229	1,510,550	259,175	932.48	927.00	5.48	911.47	15.53	932.56	21.08
230	1,510,575	259,175	932.58	927.00	5.58	911.97	15.03	933.03	21.06
231	1,510,600	259,175	933.18	927.00	6.18	912.42	14.58	933.49	21.07
232	1,510,625	259,175	933.63	927.59	6.04	912.87	14.72	934.00	21.13
233	1,510,650	259,175	934.35	932.00	2.35	913.47	18.52	934.32	20.84
234	1,510,675	259,175	934.76	931.99	2.77	917.56	14.43	934.71	17.14
235	1,510,700	259,175	935.82	931.99	3.83	918.00	13.99	935.00	17.00
236	1,510,725	259,175	935.16	933.67	1.49	933.67	0.00	935.29	1.62
237	1,510,300	259,150	927.41	925.00	2.41	911.36	13.64	927.00	15.64
238	1,510,325	259,150	928.97	925.00	3.97	910.32	14.68	927.59	17.28
239	1,510,350	259,150	929.21	925.00	4.21	912.75	12.25	929.00	16.25
240	1,510,375	259,150	929.68	925.00	4.68	915.18	9.82	929.66	14.47
241	1,510,400	259,150	929.99	925.23	4.76	917.61	7.61	930.00	12.39
242	1,510,425	259,150	930.71	925.90	4.81	908.00	17.90	930.73	22.73
243	1,510,450	259,150	931.18	925.95	5.23	908.65	17.30	931.00	22.35
244	1,510,475	259,150	931.57	925.96	5.61	909.91	16.04	931.55	21.64
245	1,510,500	259,150	932.12	927.00	5.12	910.72	16.28	932.00	21.28
246	1,510,525	259,150	932.76	927.00	5.76	911.54	15.46	932.65	21.11
247	1,510,550	259,150	933.13	927.00	6.13	914.00	13.00	933.10	19.10
248	1,510,575	259,150	933.32	931.79	1.53	931.81	0.00	933.43	1.62

NOTES:
1. CLEAN OVERBURDEN EXCAVATION GRADE CONTOURS ARE SHOWN ON DRAWING C-200. CUT



PLAN

FIFTH STREET UTILITIES CROSSING



SECTION

NOTES:
1. THE RECEIVING PIT SHOULD BE NORTH OF THE HCC WALL.
2. REFER TO SPECIFICATION SECTION 02350 AND DRAWING C-302 FOR CASING DETAILS.
3. THE CONTRACTOR SHOULD BE PREPARED TO ENCOUNTER THE TOP OF THE HCC WALL DURING THE CROSSING. THE CONTRACTOR IS REQUIRED TO SUBMIT A PLAN FOR APPROVAL FROM THE ENGINEER TO GO THROUGH THE HCC WALL AND TO SEAL BETWEEN THE CASING AND HCC WALL.
4. SEE C-301 FOR GEOTECHNICAL INSTRUMENTATION.
5. TRAFFIC ACCESS ALONG FIFTH STREET MUST BE MAINTAINED FOR AT LEAST ONE LANE OF TRAFFIC DURING PIPE RAMMING.

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

PREPARED BY: JACOBS ASSOCIATES
Engineers/Consultants

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	BcV	05/15/09	ISSUED FOR CONSTRUCTION				

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

FIFTH STREET UTILITIES CROSSING PLAN AND SECTION

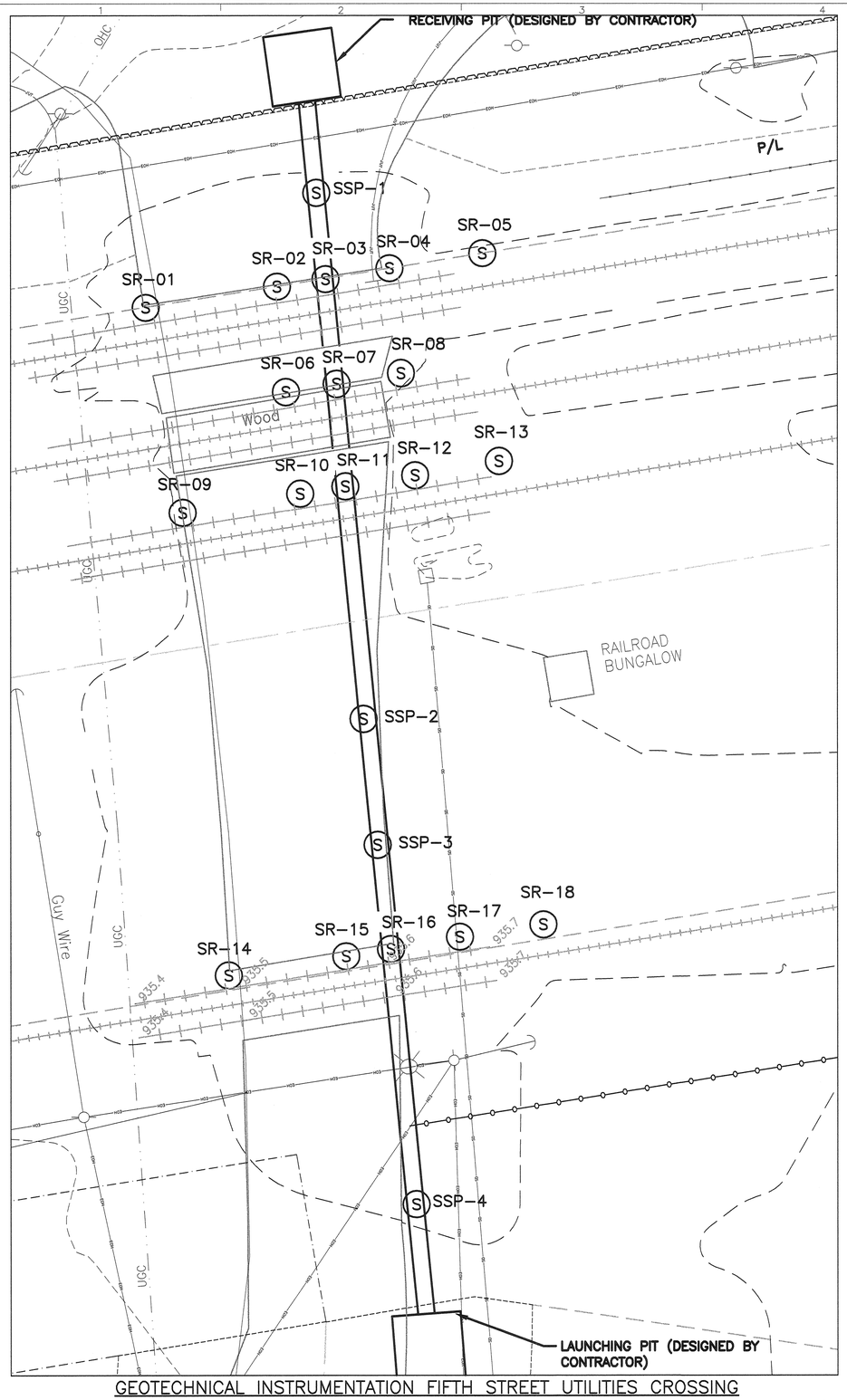
NWDZ REMEDIATION

DRAWING NUMBER: C-300

SHEET NUMBER:

REVISION 0

File: F:\PROJECTS\BNSF\Skykomish\2009\CADD\ISSUED FOR CONSTRUCTION\05-15-09\JA-1.dwg Layout: C-300 User: VershonB Plotted: May 18, 2009 - 11:51am Xref's:



GEOTECHNICAL INSTRUMENTATION FIFTH STREET UTILITIES CROSSING

GEOTECHNICAL INSTRUMENTATION SCHEDULE

INSTRUMENT TYPE	NUMBER	DRAWING/ DETAIL	DEPTH (FEET)	ACTION LEVELS (FEET)		
				TRIGGER LEVEL	LEVEL 2	MAXIMUM ALLOWABLE LIMIT
SURFACE SETTLEMENT POINT	SSP-1	C-302/1	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT	SSP-2	C-302/1	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT	SSP-3	C-302/1	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT	SSP-4	C-302/1	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-01	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-02	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-03	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-04	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-05	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-06	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-07	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-08	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-09	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-10	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-11	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-12	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-13	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-14	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-15	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-16	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-17	C-302/2	0	0.01	0.015	0.021
SURFACE SETTLEMENT POINT RAILROAD TIE	SR-18	C-302/2	0	0.01	0.015	0.021

INSTRUMENT LOCATIONS: AS SHOWN ON PLANS

INSTRUMENTATION READING SCHEDULE:

–THREE INITIAL SETS OF READINGS PRIOR TO ANY SITE EXCAVATION INCLUDING LAUNCHING PITS.

–FOR THE RAILROAD UTILITY CROSSING:

–MONITOR SETTLEMENT POINTS EVERY TWO HOURS DURING PIPE RAMMING
–INCREASE FREQUENCY OF READINGS WHERE ACTION LEVELS ARE REACHED
–ALWAYS CHECK WITH FLAGGER PRIOR TO CROSSING TRACKS

N

0 5 10 20

SCALE: 1"=10'

(S) = SURFACE SETTLEMENT POINTS

NOTES:

1. REFER TO SPECIFICATION SECTION 02150 AND DRAWING C-302 FOR INSTALLATION AND MONITORING DETAILS

PREPARED BY: JACOBS ASSOCIATES Engineers/Consultants

ISSUED FOR CONSTRUCTION

JOSEPH S. SCHLANG — 39908 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 5/6/09

NO	DRWN/DATE	REVISION	CHKD/DATE	APPVD/DATE
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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

FIFTH STREET UTILITIES CROSSING GEOTECHNICAL INSTRUMENTATION

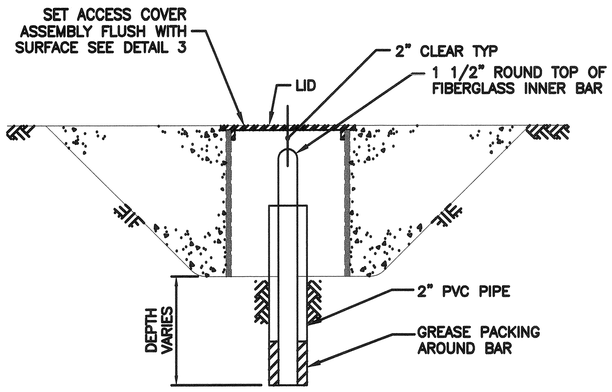
SKYKOMISH NWDZ REMEDIATION

DRAWING NUMBER: C-301

SHEET NUMBER:

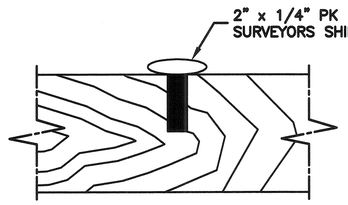
REVISION 0

File: F:\PROJECTS\BNSF\Skykomish\2009\CADD\ISSUED FOR CONSTRUCTION\05-15-09\A-Layout C-301 User: Vandundi Plotted: May 18, 2009 - 11:54am



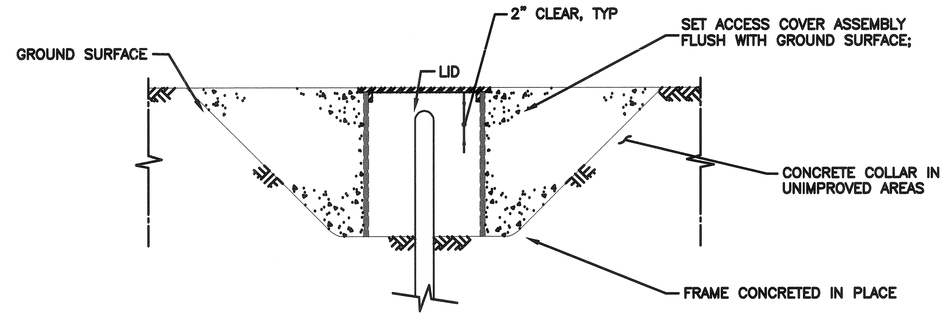
SURFACE SETTLEMENT POINT (1 / 200/ 201/301)

SCALE: NONE



SURFACE SETTLEMENT POINT IN RAILWAY TIE (2 / 301)

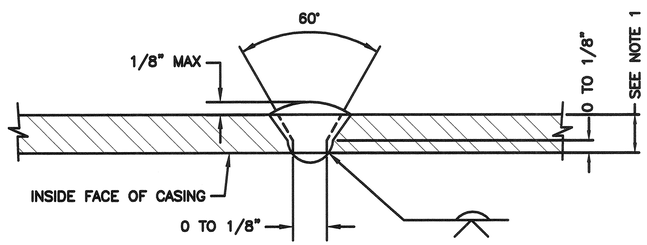
SCALE: NONE



ACCESS COVER–UNIMPROVED AREAS (3 / 200/ 201)

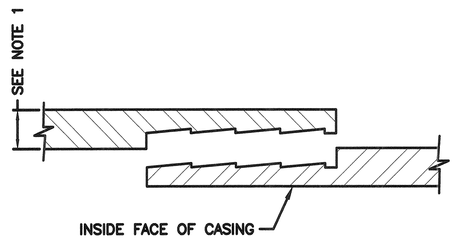
SCALE: NONE

GEOTECHNICAL INSTRUMENTATION DETAILS



FIELD BUTT WELD JOINT DETAIL (4 / 301)

SCALE: NONE



T5 PERMALOK JOINT (5 / 301)

SCALE: NONE

CASING DETAILS

NOTE:

1. REFER TO SECTION 02350 FOR CASING WALL THICKNESS

PREPARED BY: JACOBS ASSOCIATES Engineers/Consultants

ISSUED FOR CONSTRUCTION

JOSEPH S. SCIRANKA — STATE OF WASHINGTON — 18893 — REGISTERED PROFESSIONAL ENGINEER — 5/18/09

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DATE: 05/15/09

PROJ. NO.: 01140-204-0390

FIFTH STREET UTILITIES CROSSING TYP. DETAIL GEOTECHNICAL INSTRUMENTATION AND CASING

SKYKOMISH NWDZ REMEDIATION

DRAWING NUMBER: C-302

SHEET NUMBER:

REVISION 0

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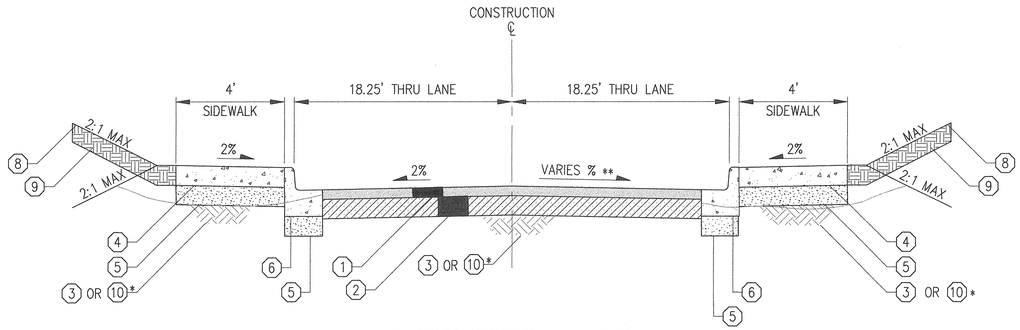
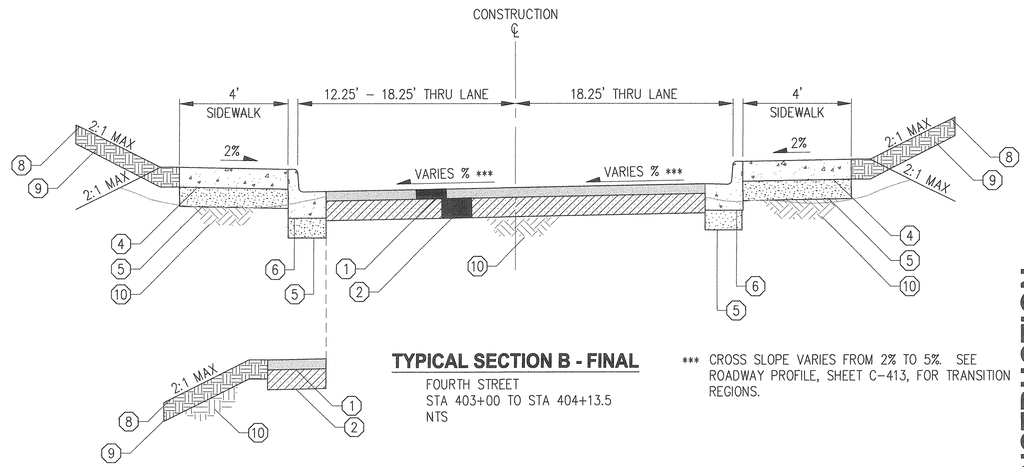


TYPICAL SECTION A - FINAL

FOURTH STREET
STA 400+85 TO STA 403+00
NTS

* FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-411.

** CROSS SLOPE VARIES FROM -2% (CROWN) TO +2% (SUPER). SEE ROADWAY PROFILE, SHEET C-413, FOR TRANSITION REGION.



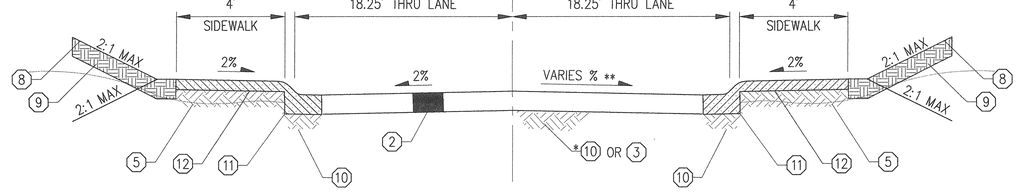
TYPICAL SECTION B - FINAL

FOURTH STREET
STA 403+00 TO STA 404+13.5
NTS

*** CROSS SLOPE VARIES FROM 2% TO 5%. SEE ROADWAY PROFILE, SHEET C-413, FOR TRANSITION REGIONS.

ALTERNATE SECTION 1

STA 403+67.7 TO STA 404+13.5
NTS

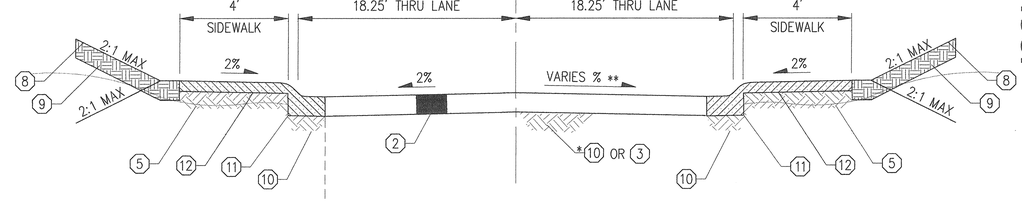


TYPICAL SECTION A - INTERIM

FOURTH STREET
STA 400+85 TO STA 403+00
NTS

* FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-411.

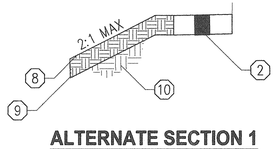
** CROSS SLOPE VARIES FROM -2% (CROWN) TO +2% (SUPER). SEE ROADWAY PROFILE, SHEET C-413, FOR TRANSITION REGION.



TYPICAL SECTION B - INTERIM

FOURTH STREET
STA 403+00 TO STA 404+13.5
NTS

*** CROSS SLOPE VARIES FROM 2% TO 5%. SEE ROADWAY PROFILE, SHEET C-413, FOR TRANSITION REGIONS.



ALTERNATE SECTION 1

STA 403+67.7 TO STA 404+13.5
NTS

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
4. CEMENT CONCRETE SIDEWALK SHALL BE STAMPED WITH AN ENGINEER APPROVED BOARD PATTERN SIMILAR TO THE ONES SHOWN IN SECTION 02601 OF THE SPECIFICATIONS.

MATERIAL CODE

(#)	MATERIALS DESCRIPTION
1	2" HMA CL 1/2" PG 64-22
2	4" ATB
3	COMPACTED STRUCTURAL FILL
4	4" CEMENT CONCRETE SIDEWALK
5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK

MATERIAL CODE

(#)	MATERIALS DESCRIPTION
13	3" EXTRUDED CONCRETE CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

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ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHK'D	DATE	APPV'D	DATE
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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

TYPICAL ROADWAY SECTIONS
4TH STREET

NWDZ REMEDIATION

DRAWING NUMBER: C-400
SHEET NUMBER:
REVISION 0

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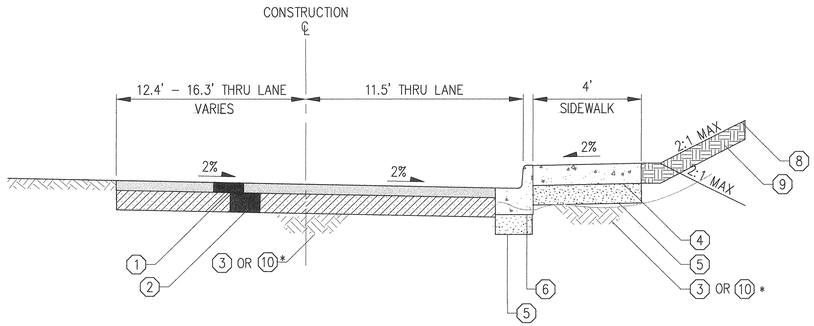
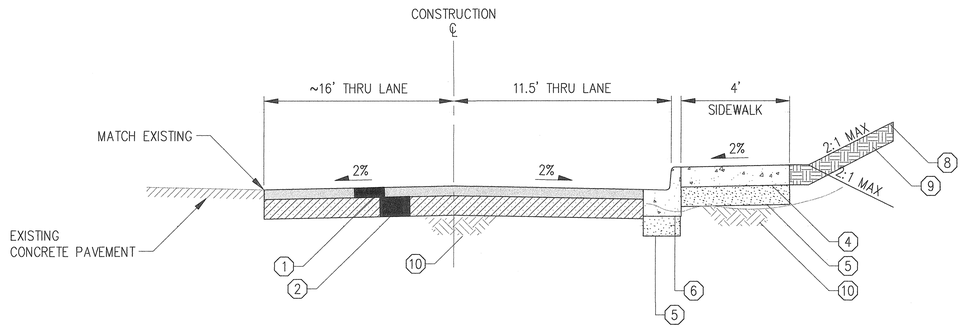


TYPICAL SECTION C

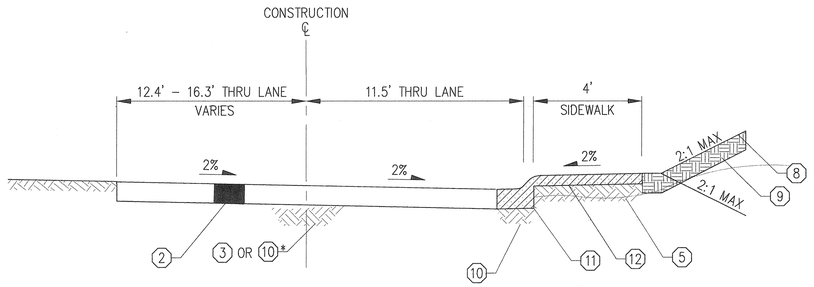
EAST RIVER DR
STA 807+98 TO STA 809+00
NTS

* FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-411.



TYPICAL SECTION D

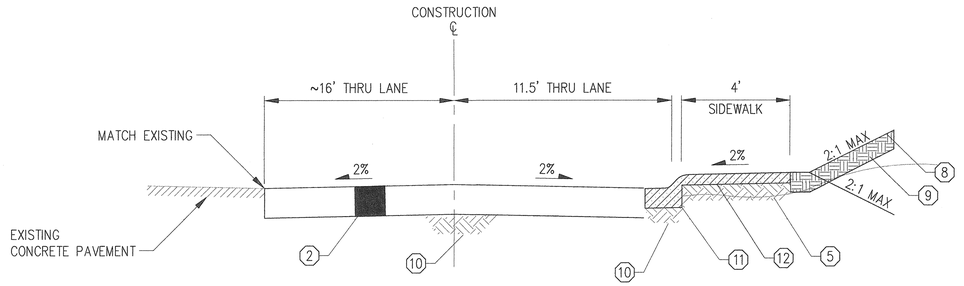
EAST RIVER DR
STA 809+25 TO STA 809+61.4
NTS



TYPICAL SECTION C - INTERIM

EAST RIVER DR
STA 807+98 TO STA 809+00
NTS

FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-411.



TYPICAL SECTION D - INTERIM

EAST RIVER DR
STA 809+25 TO STA 809+61.4
NTS

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
4. CEMENT CONCRETE SIDEALK SHALL BE STAMPED WITH AN ENGINEER APPROVED BOARD PATTERN SIMILAR TO THE ONES SHOWN IN SECTION 02601 OF THE SPECIFICATIONS.

MATERIAL CODE

#	MATERIALS DESCRIPTION
1	2" HMA CL 1/2" PG 64-22
2	4" ATB
3	COMPACTED STRUCTURAL FILL
4	4" CEMENT CONCRETE SIDEWALK
5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK

MATERIAL CODE

#	MATERIALS DESCRIPTION
13	3" EXTRUDED CONC. CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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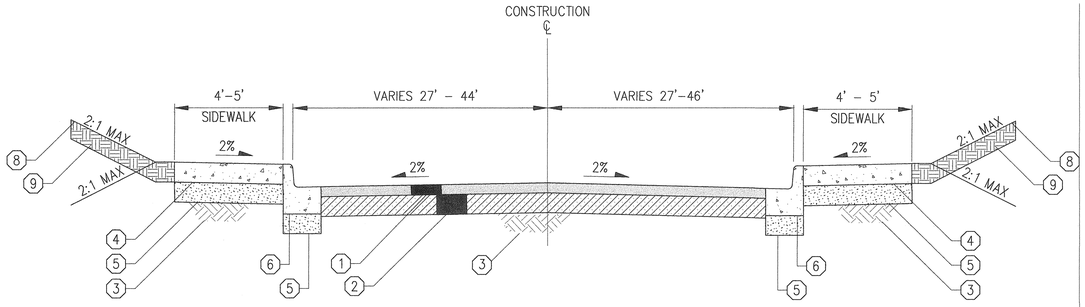
PROJ. NO.: 01140-204-0390 DATE: 05/15/09

TYPICAL ROADWAY SECTIONS
EAST RIVER DRIVE

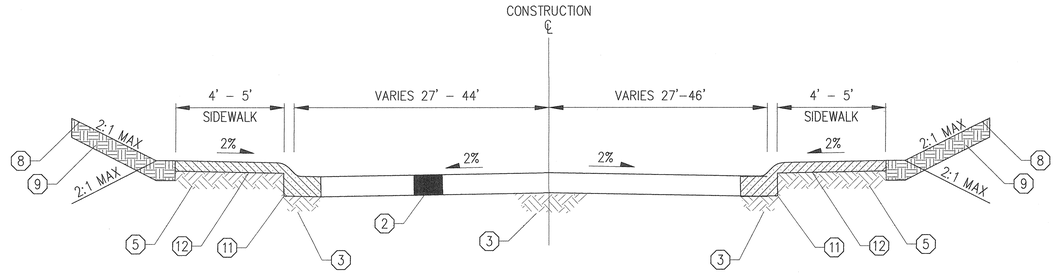
NWDZ REMEDIATION

DRAWING NUMBER: C-401
SHEET NUMBER:
REVISION 0



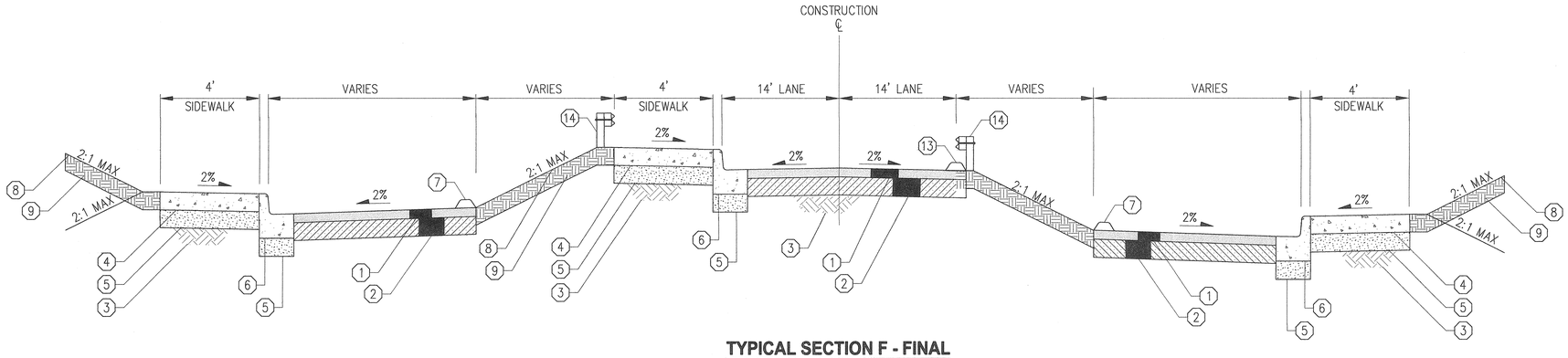
TYPICAL SECTION E - FINAL

FIFTH STREET
STA 500+40 TO STA 502+24
NTS



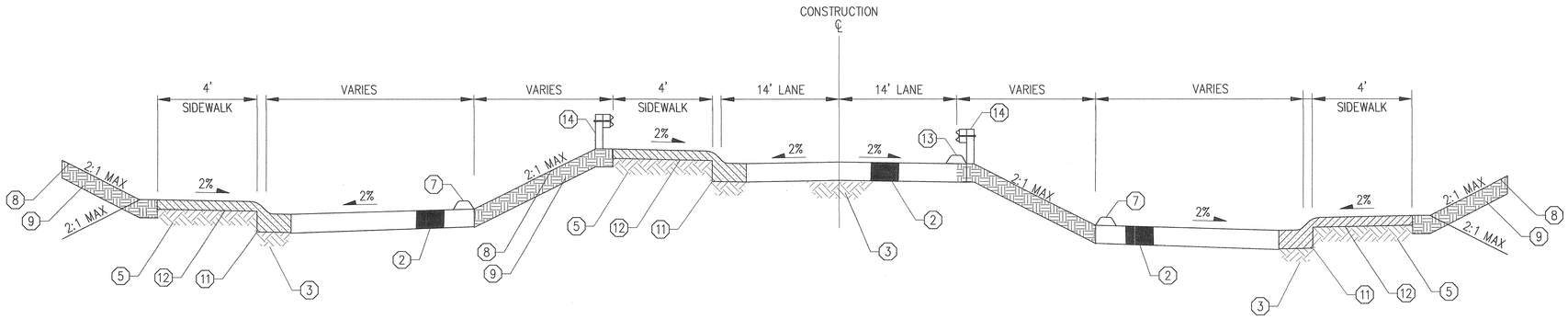
TYPICAL SECTION E - INTERIM

FIFTH STREET
STA 500+40 TO STA 502+24
NTS



TYPICAL SECTION F - FINAL

FIFTH STREET
STA 502+24 TO STA 503+20
NTS



TYPICAL SECTION F - INTERIM

FIFTH STREET
STA 502+24 TO STA 503+20
NTS

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2–03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
4. CEMENT CONCRETE SIDEWALK SHALL BE STAMPED WITH AN ENGINEER APPROVED BOARD PATTERN SIMILAR TO THE ONES SHOWN IN SECTION 02601 OF THE SPECIFICATIONS.

MATERIAL CODE

(#)	MATERIALS DESCRIPTION
1	2" HMA CL 1/2" PG 64–22
2	4" ATB
3	COMPACTED STRUCTURAL FILL
4	4" CEMENT CONCRETE SIDEWALK
5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK
13	3" EXTRUDED CONC. CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390
DATE: 05/15/09

TYPICAL ROADWAY SECTIONS
FIFTH STREET

NWDZ REMEDIATION

DRAWING NUMBER: C-402
SHEET NUMBER:
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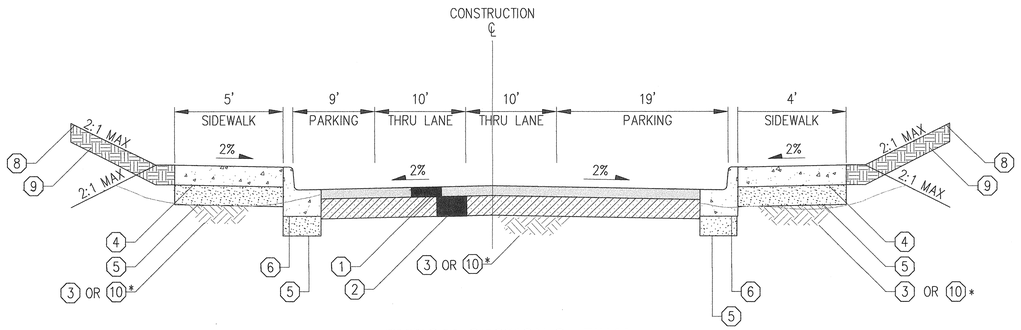
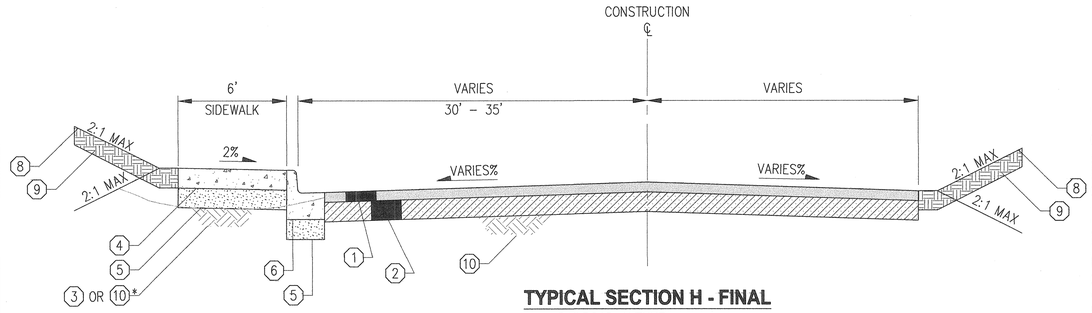


TYPICAL SECTION G - FINAL

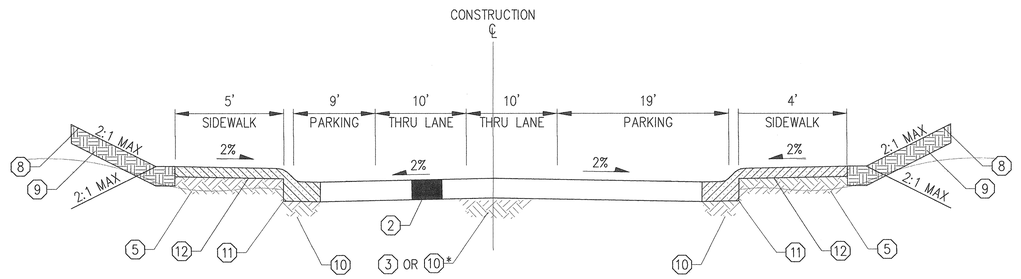
SIXTH STREET
STA 600+84 TO STA 602+64
NTS

* FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-412.



TYPICAL SECTION H - FINAL

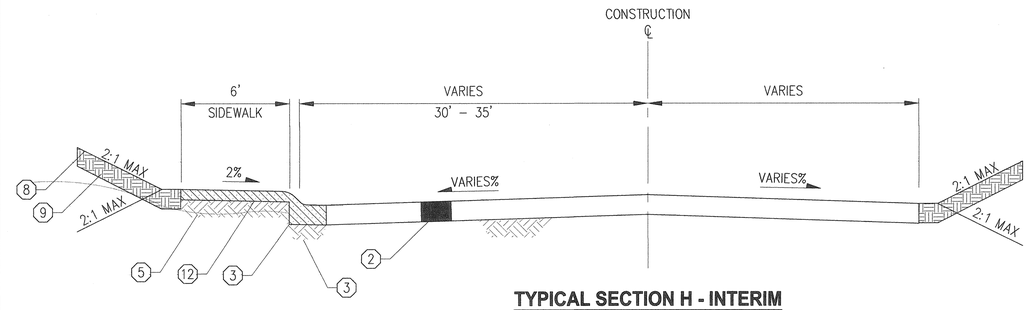
RAILROAD AVENUE
STA 105+40 TO STA 106+05
NTS



TYPICAL SECTION G - INTERIM

SIXTH STREET
STA 600+84 TO STA 602+64
NTS

* FOR LIMITS OF EXCAVATION PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY CSTC OR ATB, SEE SITE PREPARATION PLAN, SHEET C-412.



TYPICAL SECTION H - INTERIM

RAILROAD AVENUE
STA 105+40 TO STA 106+05
NTS

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
4. CEMENT CONCRETE SIDEWALK SHALL BE STAMPED WITH AN ENGINEER APPROVED BOARD PATTERN SIMILAR TO THE ONES SHOWN IN SECTION 02601 OF THE SPECIFICATIONS.

MATERIAL CODE

#	MATERIALS DESCRIPTION
1	2" HMA CL 1/2" PG 64-22
2	4" ATB
3	COMPACTED STRUCTURAL FILL
4	4" CEMENT CONCRETE SIDEWALK
5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK

MATERIAL CODE

#	MATERIALS DESCRIPTION
13	3" EXTRUDED CONC. CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

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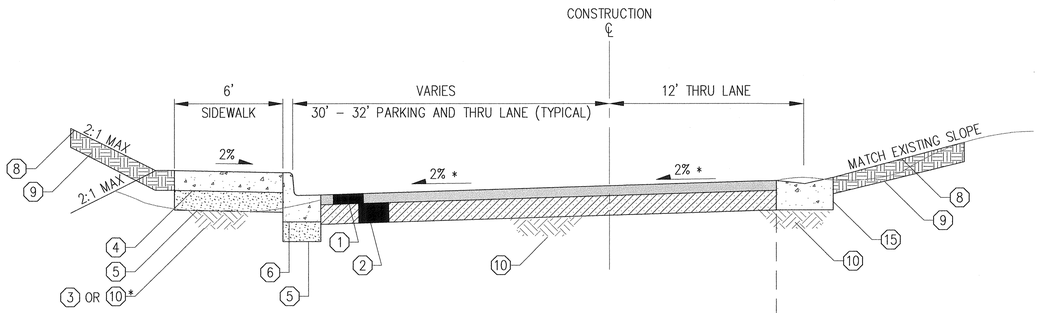
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

TYPICAL ROADWAY SECTIONS
RAILROAD AVENUE

NWDZ REMEDIATION

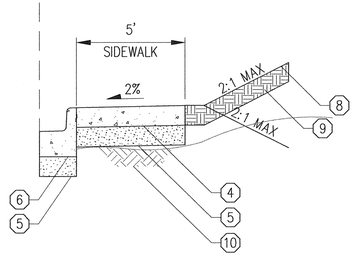
DRAWING NUMBER: C-403
SHEET NUMBER:
REVISION 0



TYPICAL SECTION I - FINAL

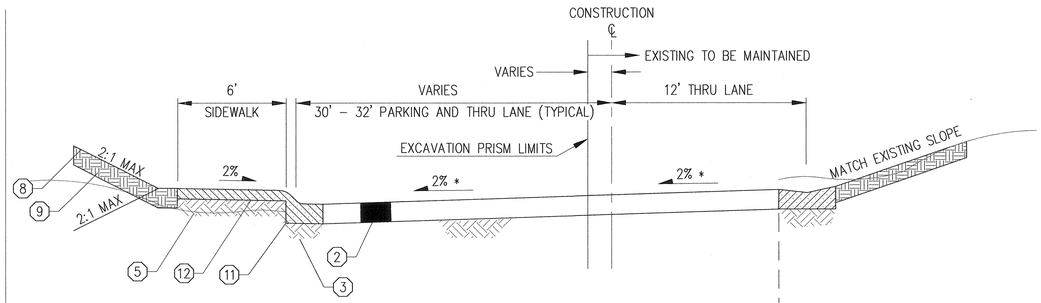
RAILROAD AVENUE
STA 106+05 TO STA 108+50
NTS

* CROSS SLOPE VARIES FROM 2%–4% AT INTERSECTION OF RAILROAD AVENUE AND BNSF CROSSING. SEE ROADWAY PROFILE FOR TRANSITION REGIONS.



ALTERNATE SECTION 1

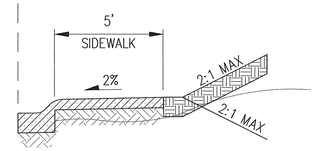
STA 107+22.71 TO STA 108+50
NTS



TYPICAL SECTION I - INTERIM

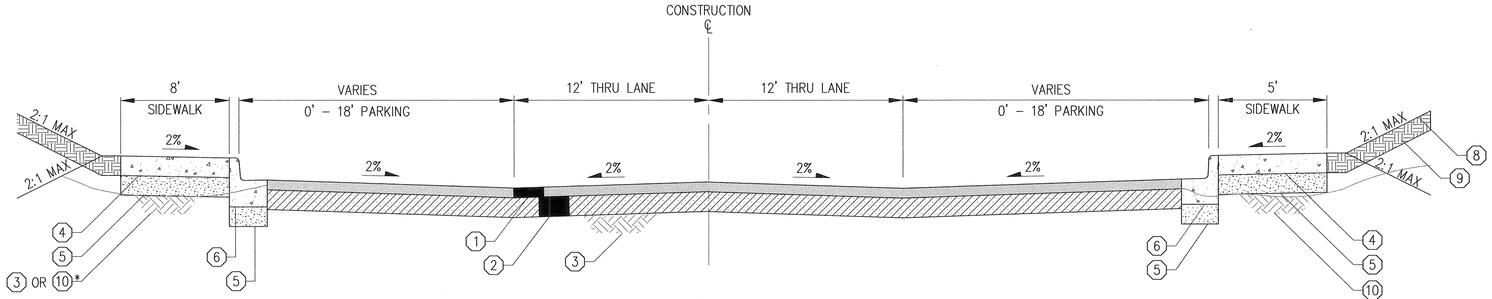
RAILROAD AVENUE
STA 106+05 TO STA 108+50
NTS

* CROSS SLOPE VARIES FROM 2%–4% AT INTERSECTION OF RAILROAD AVENUE AND BNSF CROSSING. SEE ROADWAY PROFILE FOR TRANSITION REGIONS.



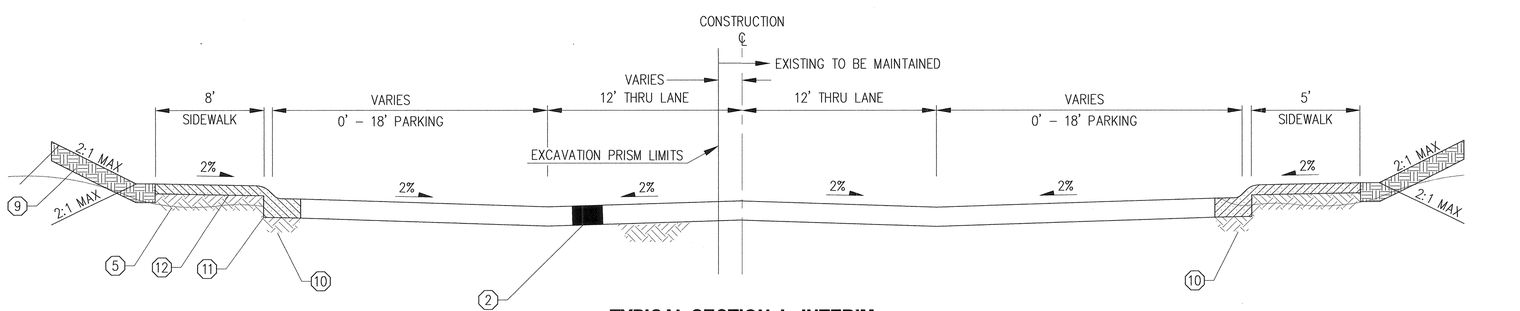
ALTERNATE SECTION 1

STA 107+22.71 TO STA 108+50
NTS



TYPICAL SECTION J - FINAL

RAILROAD AVENUE
STA 108+50 TO STA 110+25
NTS



TYPICAL SECTION J - INTERIM

RAILROAD AVENUE
STA 108+50 TO STA 110+25
NTS

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
4. CEMENT CONCRETE SIDEWALK SHALL BE STAMPED WITH AN ENGINEER APPROVED BOARD PATTERN SIMILAR TO ONES SHOWN IN SECTION 02601 OF THE SPECIFICATIONS.

MATERIAL CODE

(#)	MATERIALS DESCRIPTION
1	2" HMA CL 1/2" PG 64-22
2	4" ATB
3	COMPACTED STRUCTURAL FILL
4	4" CEMENT CONCRETE SIDEWALK
5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK
13	3" EXTRUDED CONC. CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

ISSUED FOR CONSTRUCTION

AECOM

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Bellevue, Washington
(206) 624-9349
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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

TYPICAL ROADWAY SECTIONS
RAILROAD AVENUE

NWDZ REMEDIATION

DRAWING NUMBER:
C-404
SHEET NUMBER:
REVISION 0

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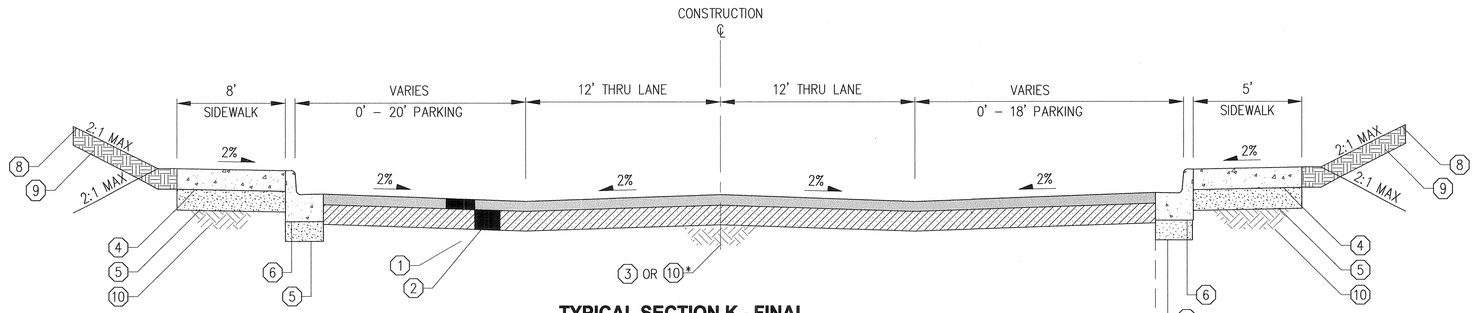
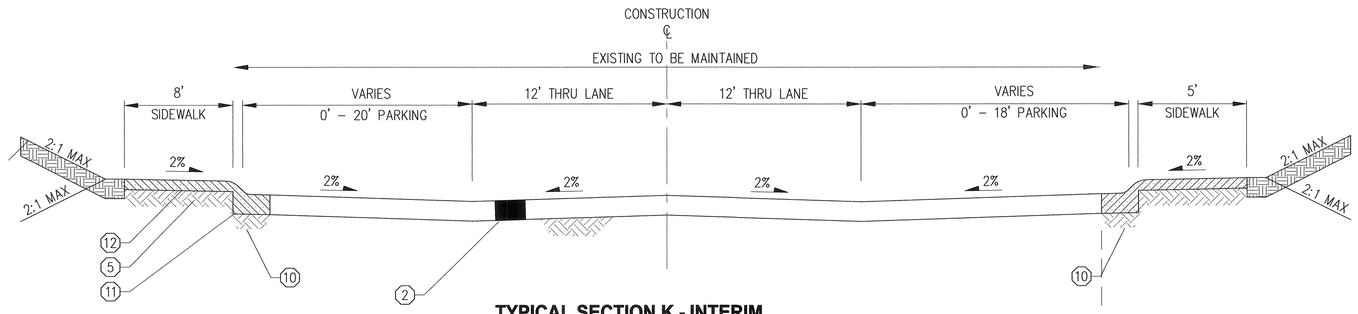


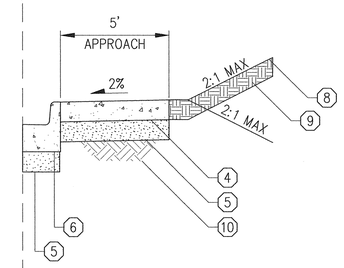
TYPICAL SECTION K - FINAL

RAILROAD AVENUE
STA 110+25 TO STA 116+31.1
NTS



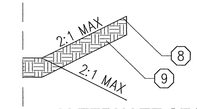
TYPICAL SECTION K - INTERIM

RAILROAD AVENUE
STA 110+25 TO STA 116+31.1
NTS



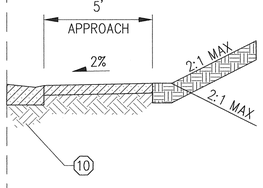
ALTERNATE SECTION 1

STA 109+57 TO STA 112+23
NTS



ALTERNATE SECTION 2

STA 113+92 TO STA 116+31
NTS



ALTERNATE SECTION 1

STA 109+57 TO STA 112+23
NTS



ALTERNATE SECTION 2

STA 113+92 TO STA 116+31
NTS

TYPICAL SECTION NOTES

1. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED STRUCTURAL FILL. FILL MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
3. IF UNSUITABLE FOUNDATION IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE WITH STRUCTURAL FILL OR AS DIRECTED BY THE ENGINEER.
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MATERIAL CODE

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5	4" CSTC
6	CEMENT CONCRETE VERTICAL CURB AND GUTTER
7	6" EXTRUDED ASPHALT CONC. CURB
8	HYDROSEED
9	4" TOPSOIL, TYPE A
10	COMPACTED SUBGRADE
11	4" TEMPORARY ATB CURB AND GUTTER
12	2" TEMPORARY ATB SIDEWALK

MATERIAL CODE

#	MATERIALS DESCRIPTION
13	3" EXTRUDED CONC. CURB
14	BEAM GUARDRAIL
15	MOUNTABLE CURB AND GUTTER
16	TEMPORARY ATB GUTTER

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

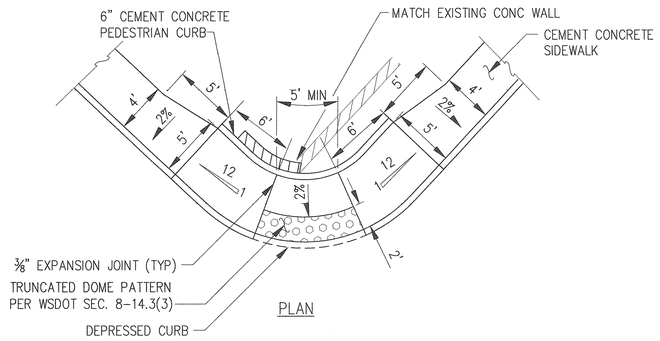
TYPICAL ROADWAY SECTIONS
RAILROAD AVENUE

NWDZ REMEDIATION

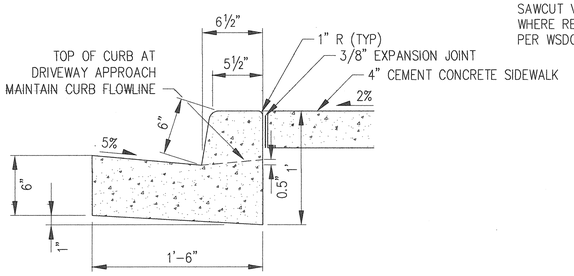
DRAWING NUMBER: C-405

SHEET NUMBER:

REVISION 0

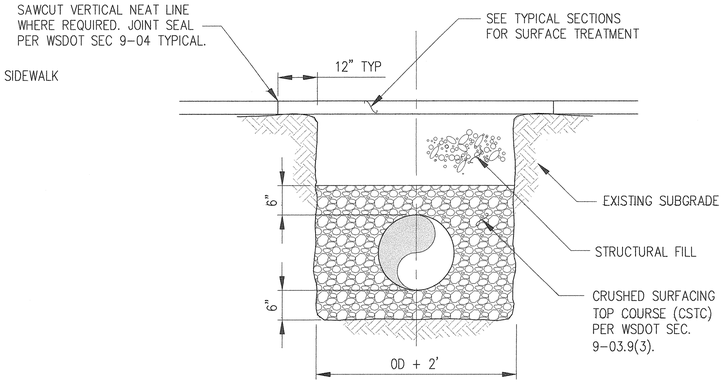


PLAN



CEMENT CONCRETE VERTICAL CURB & GUTTER

NTS

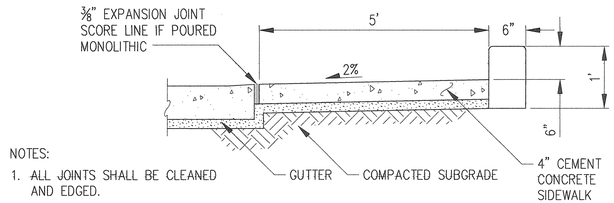


TYPICAL TRENCH SECTION

NTS

NOTES:

TYPICAL TRENCH SECTION APPLIES TO ALL PROPOSED UTILITIES INCLUDING STORM SEWER, SANITARY SEWER, AND WATER.



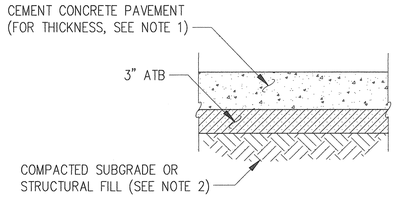
NOTES:

1. ALL JOINTS SHALL BE CLEANED AND EDGED.
2. CONCRETE SHALL BE P.C.C. CLASS 4000.

SECTION

MOD. CURB RAMP TYPE 2A

NTS

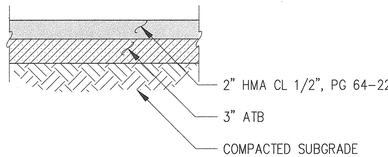


NOTES

1. CONCRETE THICKNESS = 5" FOR DRIVEWAYS D2 & D3, AND 6" FOR PARKING AREA ALONG E RIVER STREET.
2. FOR LIMITS OF EXCAVATIONM PRISM WHERE COMPACTED STRUCTURAL FILL WILL UNDERLAY ATB, SEE SITE PREPARATION PLAN, SHEET C406.

CEMENT CONCRETE DRIVEWAY/PARKING PAVEMENT SECTION

NTS



ASPHALT DRIVEWAY SECTION

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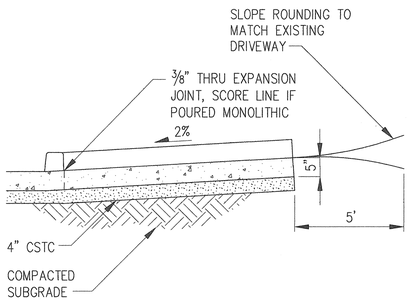
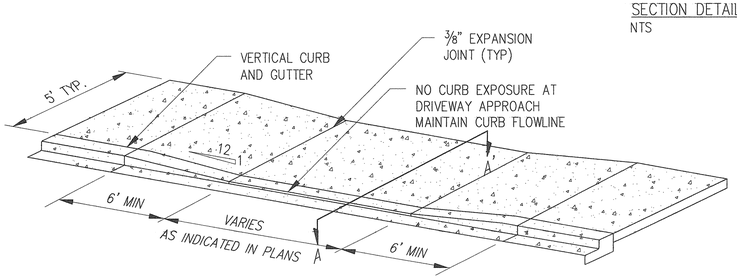


SECTION DETAIL A-A

NTS

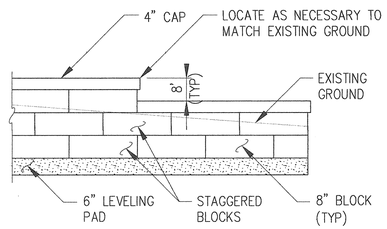


DRIVEWAY APPROACH

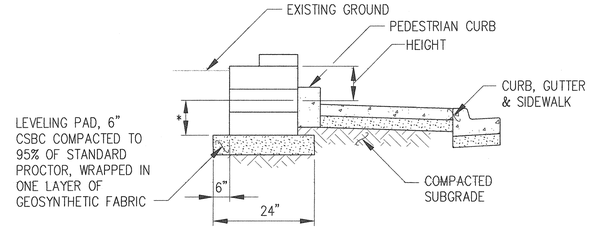
NTS

NOTES

1. CONCRETE SHALL BE P.C.C. CLASS 4000.
2. ⅜" THRU EXPANSION JOINTS SHALL BE PLACED AT BACK, SIDES AND FRONT. MAXIMUM EXPANSION JOINT SPACING 10' CENTER TO CENTER.



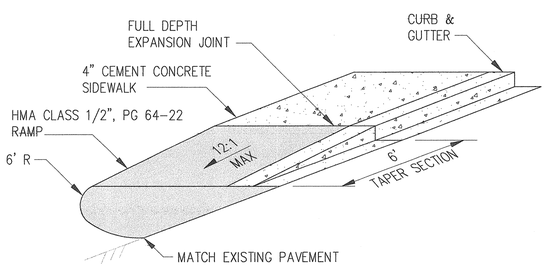
ELEVATION



SECTION

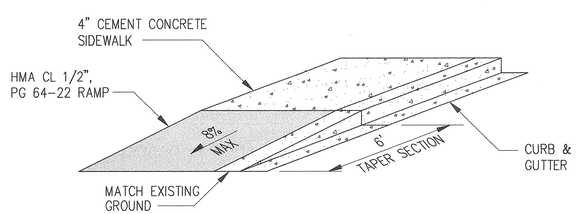
* WALL EMBEDMENT PER MANUFACTURER'S RECOMMENDATIONS. WALL DOES NOT REQUIRE GEOSYNTHETIC REINFORCEMENT OR PERFORATED DRAIN PIPE.

MODULAR BLOCK WALL



SIDEWALK TRANSITION RAMP DETAIL

NTS



ASPHALT RAMP

NTS

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN FORMER MAINTENANCE AND FUELING FACILITY SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

ROADWAY DETAILS

NWDZ REMEDIATION

DRAWING NUMBER: C-406

SHEET NUMBER:

REVISION 0

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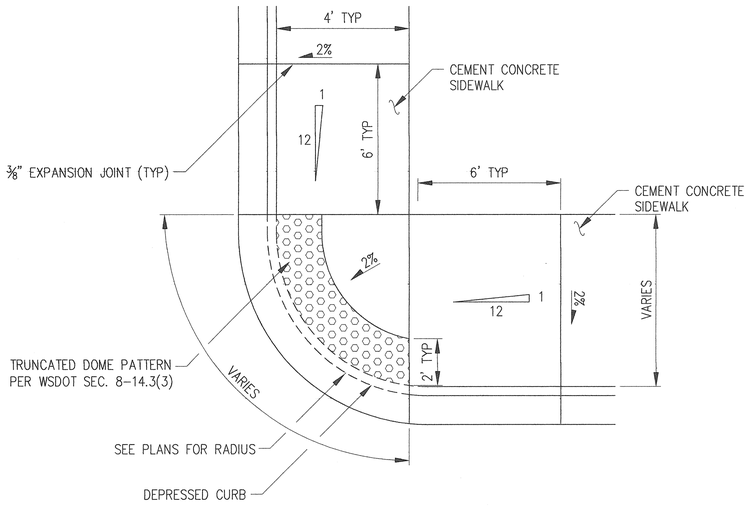
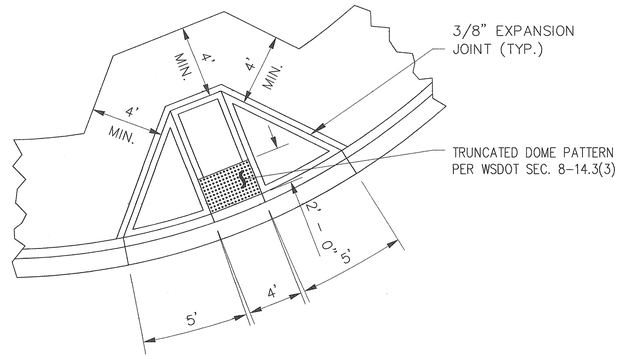
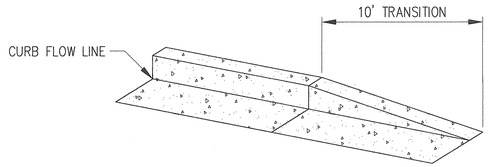


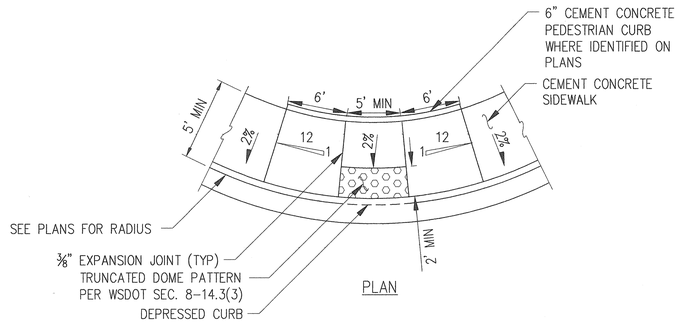
CURB RAMP
NTS



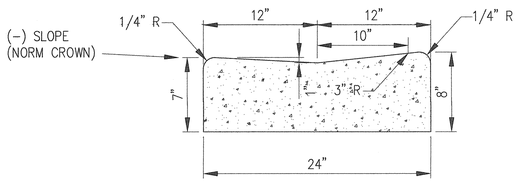
CURB RAMP 1A
NTS



VERTICAL CURB & GUTTER TRANSITION
NTS



PLAN



MOUNTABLE CURB & GUTTER
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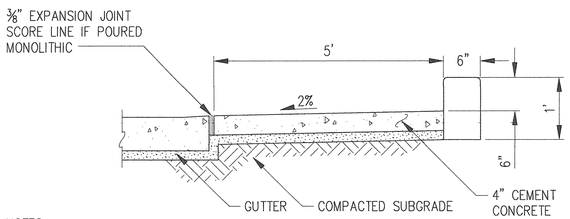

SECTION

NOTES:

1. ALL JOINTS SHALL BE CLEANED AND EDGED.
2. CONCRETE SHALL BE P.C.C. CLASS 4000.
3. FOR PLACEMENT OF WHEELCHAIR CURB RAMP, SEE PLANS.

CURB RAMP TYPE 2A
NTS

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

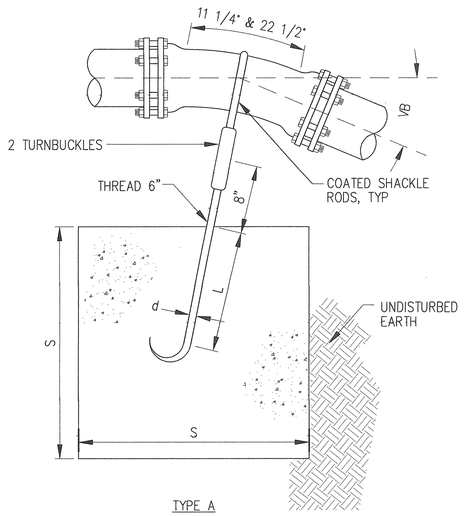
ROADWAY DETAILS

NWDZ REMEDIATION

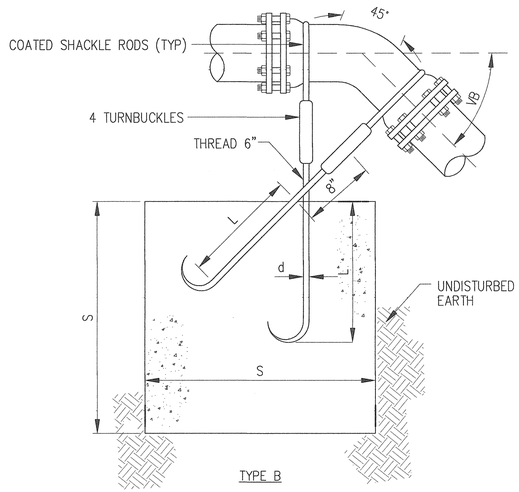
DRAWING NUMBER: C-407

SHEET NUMBER:

REVISION 0



TYPE A



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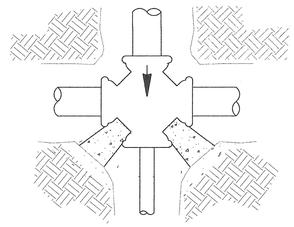

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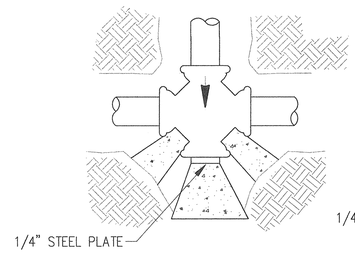

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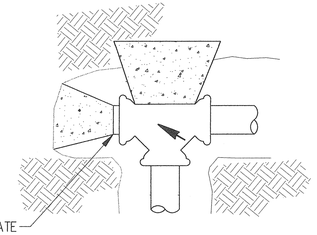

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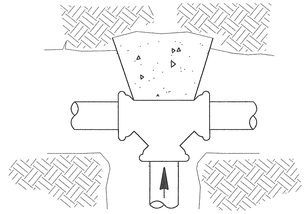
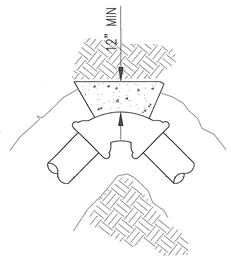
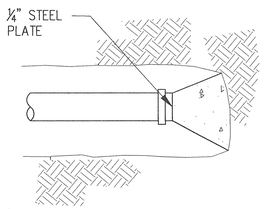


TEE



HORIZONTAL BEND



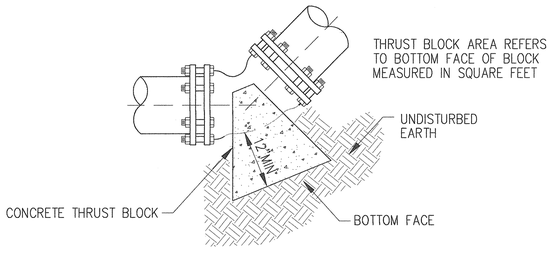
PIPE AND CAP

TYPE A BLOCKING
(FOR 11 1/4° & 22 1/2° VERTICAL BENDS)

NOM PIPE SIZE DIA – INCHES	TEST PRESS PSI	VB: VERT BEND – DEGREES	VB: CUB FT OF VERT BLKG	S: SIDE OF CUBE IN FEET	d: SHACKLE ROD DIA – INCHES	L: DEPTH OF RODS IN CONC – INS
4"	300	11 1/4	8	2	5/8	18
		22 1/2	12	2 1/4		24
6"	300	11 1/4	12	2 1/4	5/8	24
		22 1/2	27	3		
8"	300	11 1/4	16	2 1/2	5/8	24
		22 1/2	43	3 1/2		
12"	300	11 1/4	64	4	3/4	24
		22 1/2	125	5	7/8	36

TYPE B BLOCKING
FOR 45° VERTICAL BENDS
AND HORIZONTAL THRUST BLOCKS
WHERE NOTED ON THE PLANS

NOM PIPE SIZE DIA – INCHES	TEST PRESS PSI	VB: VERT BEND – DEGREES	VB: CUB FT OF VERT BLKG	S: SIDE OF CUBE IN FEET	d: SHACKLE ROD DIA – INCHES	L: DEPTH OF RODS IN CONC – INS
4"	300	45	27	3	5/8	20
6"			64	4		
8"			125	5		
12"			216	6	7/8	30



TYPE C

TYPE C BLOCKING
FOR 11 1/4', 22 1/2'45', AND 90° VERTICAL BENDS

THRUST BLOCK AREA IN SQUARE FEET									
SOIL	FIRM SILT OR FIRM SILTY SAND			COMPACT SAND			COMPACT SAND AND GRAVEL		
FITTING	90° BEND	TEE 45°BEND AND DEAD END	11 1/4° AND 22 1/2° BEND	90° BEND	TEE 45°BEND AND DEAD END	11 1/4° AND 22 1/2° BEND	90° BEND	TEE 45°BEND AND DEAD END	11 1/4° AND 22 1/2° BEND
4"	5.8	4.2	1.7	2.9	2.1	1.0	2.2	1.6	1.0
6"	13.3	9.4	3.8	6.7	4.7	1.9	5.0	3.5	1.4
8"	23.3	16.7	6.7	11.7	8.4	3.4	8.8	6.3	2.5
12"	53.0	37.5	15.0	26.5	18.8	7.5	20.0	14.0	5.6

AREAS CALCULATED ON 300 PSI TEST PRESSURE
AND 36" MIN COVER OVER MAIN

NOTES:

1. AFTER INSTALLATION, WIRE BRUSH CLEAN RODS AND TURNBUCKLES. PAINT TWO COATS ASPHALTIC VARNISH ROYSTON ROYKOTE #612XM OR APPROVED EQUAL.
2. SHACKLE RODS SHALL BE ROUND MILD STEEL ASTM A-36 THREAD, 6" MAX ON ENDS ONLY.
3. PIPES LARGER THAN 12" MUST BE REDESIGNED.

NOTES:

1. (HORIZONTAL AND VERTICAL) ALL BLOCKING FOR VERTICAL FITTINGS (POURED IN PLACE) SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND.
2. (VERTICAL AND HORIZONTAL WHERE NOTED ON THE PLANS) AFTER INSTALLATION, SHACKLE RODS AND TURNBUCKLES SHALL BE CLEANED AND COATED WITH 2 COATS OF ASPHALTIC VARNISH, ROYSTON ROYKOTE #612 OR APPROVED EQUAL.
3. (VERTICAL AND HORIZONTAL WHERE NOTED ON THE PLANS) SHACKLE RODS SHALL BE ROUND MILD STEEL, ASTM A-36 WITH THREADS ON ENDS ONLY.
4. (HORIZONTAL ONLY) BLOCKING AGAINST FITTINGS SHALL BEAR AGAINST THE GREATEST FITTING SURFACE AREA POSSIBLE, BUT SHALL NOT COVER OR ENCLOSE BELL ENDS, JOINT BOLTS, OR GLANDS.
5. PIPES LARGER THAN 12", MUST BE REDESIGNED.

THRUST BLOCK AREA IN SQUARE FEET

PIPE SIZE	SOIL	FIRM SILT OR SILTY SAND			COMPACT SAND			COMPACT SAND AND GRAVEL		
	FITTING	90° BEND	TEE 45°BEND CAP OR PLUG	11 1/4° AND 22 1/2°BEND	90° BEND	TEE 45°BEND CAP OR PLUG	11 1/4° AND 22 1/2°BEND	90° BEND	TEE 45°BEND CAP OR PLUG	11 1/4° AND 22 1/2°BEND
	4"	7.0	4.2	1.7	2.9	2.1	1.0	2.2	1.6	1.0
	6"	13.3	9.4	3.8	6.7	4.7	1.9	5.0	3.5	1.4
	8"	23.3	16.7	6.7	11.7	8.4	3.4	8.8	6.3	2.5
	12"	53.0	37.5	15.0	26.5	18.8	7.5	20.0	14.0	5.6

AREAS CALCULATED ON 300 PSI TEST PRESSURE
AND 36" MIN COVER OVER PIPE LINE

KING COUNTY FIG. 020504 AND 020505
VERTICAL THRUST BLOCKS
NTS

KING COUNTY FIG. 020506
HORIZONTAL THRUST BLOCKS
NTS

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FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

WATER DETAILS

NWDZ REMEDIATION

DRAWING NUMBER: C-408

SHEET NUMBER:

REVISION 0

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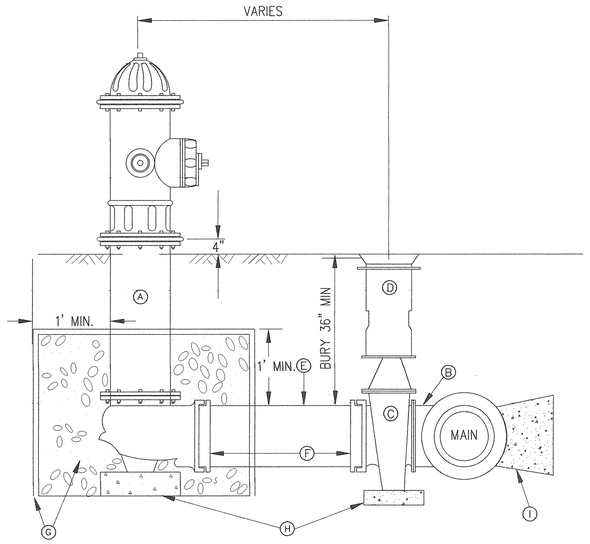


A. HYDRANT SHALL CONFORM TO SPECIFICATIONS.

B. 6" FLANGE OUTLET ON CAST OR DUCTILE IRON TEE.

C. 1–AUXILIARY GATE VALVE: 6" AWWA C509, RESILIENT SEAT, M.J.xFL. WITH LUGS.

D. 1–TWO–PIECE CAST IRON VALVE BOX EQUAL TO RICH SEATTLE TYPE #045 WITH RECESSED HANDLE LID.

E. 1–6" DUCTILE IRON CLASS 52 CEMENT–LINED PIPE, LENGTH TO FIT. WHERE MORE THAN ONE LENGTH OF PIPE IS REQUIRED, CONNECT PIPES WITH MECHANICAL JOINT SLEEVE, RESTRAIN PIPE AND SLEEVE WITH MEGALUG RESTRAINERS, OR RESTRAIN PIPES WITH UNI–FLANGE SERIES 1300 & 1390 JOINT RESTRAINERS.

F. RESTRAIN MECHANICAL JOINTS WITH MEGALUG RESTRAINERS.

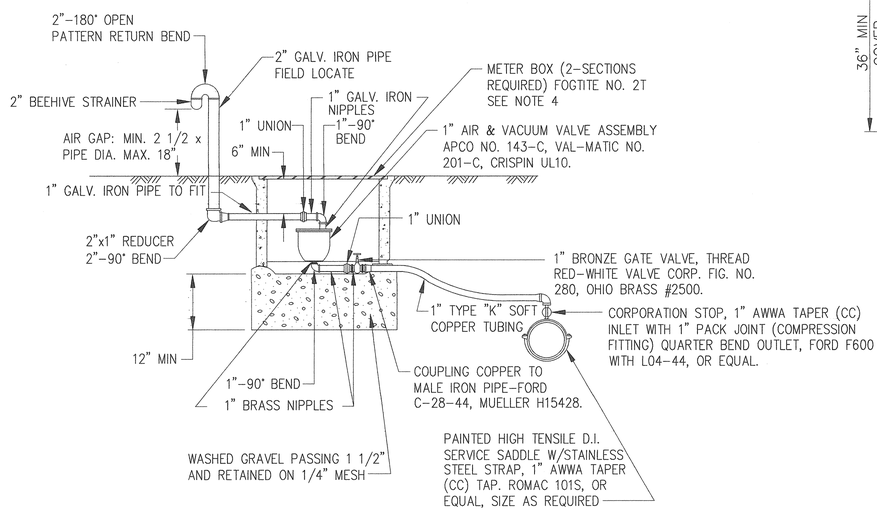
G. 1/2 YARD WASHED DRAIN ROCK (3" TO 3/8"), MIN. 1' ABOVE BOOT FLANGE PLACE 8 MIL POLYETHYLENE FILM AROUND TOP AND SIDES OF GRAVEL DO NOT BLOCK DRAIN HOLES.

H. 16"X8"X4" MIN. SIZE CONCRETE BLOCK UNDER HYDRANT AND VALVE.

I. CONC. BLOCKING PER DETAILS.

FIRE HYDRANT ASSEMBLY

NTS

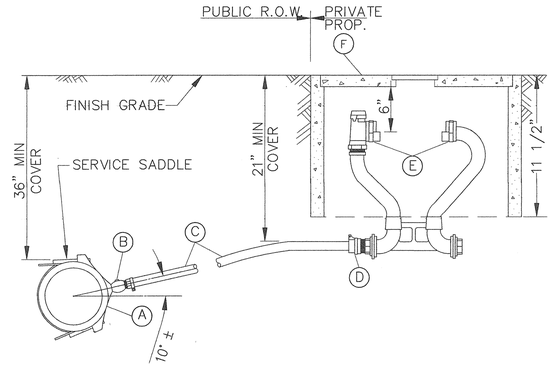


NOTES:

1. ALL FITTINGS TO BE BRASS OR COPPER FROM WATER MAIN TO 1" AIR & VACUUM ASSEMBLY.
2. 2" GALVANIZED PIPE ABOVE GRADE TO BE PAINTED WITH 2 COATS RUSTOLEUM HIGH GLOSS WHITE PAINT.
3. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
4. LOCATE AIR & VACUUM METER BOX OUTSIDE OF TRAFFIC AREAS, BEHIND CURB OR SIDEWALK.

1" AIR & VACUUM RELEASE VALVE ASSEMBLY

NTS



HORIZONTAL METER SETTER INSTALLATION

A. PAINTED HIGH TENSILE D.I. SERVICE SADDLE W/ STAINLESS STEEL STRAP AND EPOXY COATED BOSS, AWWA TAPER (CC) TAP, ROMAC 101S, OR EQUAL, SIZE AS REQUIRED.

B. BALL CORPORATION STOP, AWWA TAPER (CC) INLET WITH PACK JOINT (COMPRESSION FITTING) FOR COPPER OUTLET, FORD FB1000, OR EQUAL, SIZE AS REQUIRED.

C. COPPER TUBING, TYPE K, SIZE AS REQUIRED.

D. COUPLING, MALE IRON PIPE THREAD WITH PACK JOINT (COMPRESSION FITTING) FOR COPPER, FORD C84–44 OR EQUAL, SIZE AS REQUIRED. IF 1–½" SERVICE LINE WITH A 1" METER IS NOTED IN THE PLANS, PROVIDE A REDUCER, SIZE AS REQUIRED.

E. ⅝"X¾" OR 1" METER SETTER WITH DOUBLE (DUAL) PURPOSE COUPLINGS AND ANGLE METER VALVE (ANGLE STOP) WITH PADLOCK WINGS, FORD 70 SERIES, OR EQUAL, SIZE AS REQUIRED.

F. METER BOX, EQUAL TO: MID–STATES PLASTICS MSBCF 1324–12 IN NONTRAVELED AREAS; OLYMPIC FOUNDRY SM30 IN SIDEWALK AND IN AREAS WITH VEHICULAR TRAFFIC, OR APPROVED EQUAL.

NOTES:

1. SERVICE LINE SHALL BE PERPENDICULAR TO THE WATERMAIN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. APPROVED BACKFLOW PREVENTION MUST BE INSTALLED WITH IRRIGATION SERVICE PER D.S.H.S. REQUIREMENTS. IRRIGATION SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL THE BACKFLOW PREVENTION DEVICE IS APPROVED BY THE ENGINEER.
3. METERS WILL BE SUPPLIED BY THE TOWN OF SKYKOMISH.

5/8" X 3/4" AND 1" SINGLE WATER SERVICE

NTS

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

WATER DETAILS

NWDZ REMEDIATION

DRAWING NUMBER: C-409

SHEET NUMBER:

REVISION 0

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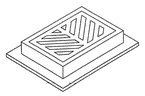
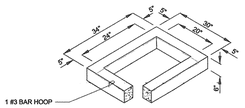
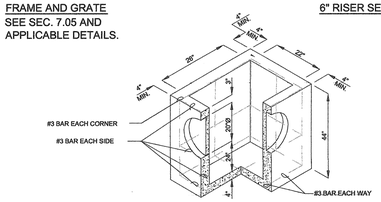


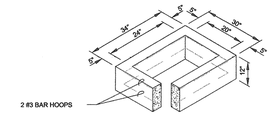
FRAME AND GRATE
SEE SEC. 7.05 AND APPLICABLE DETAILS.



6" RISER SECTION



PRECAST BASE SECTION
(MEASUREMENT AT THE TOP OF THE BASE)

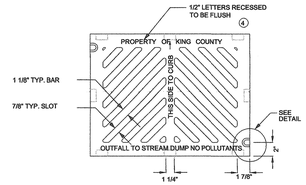


12" RISER SECTION

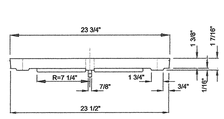
NOTES:

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQ. IN. PER FT. MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2 IN. MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20 IN. KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
7. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5 FT.
8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
11. FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DWG. B1-B.
12. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2 IN. FROM VERTICAL EDGE OF CATCH BASIN WALL.

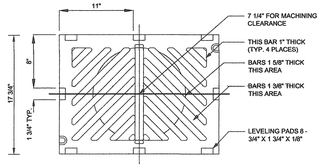
KING COUNTY FIG. 7-003
CATCH BASIN TYPE 1
NTS



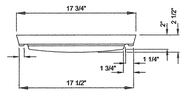
TOP VIEW



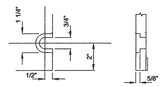
SIDE VIEW



BOTTOM VIEW



END VIEW

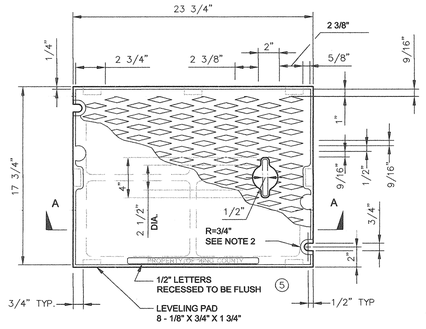


SLOT DETAIL
SEE NOTE 1

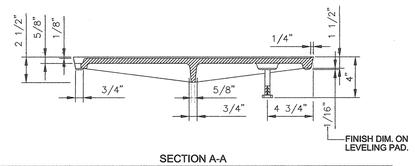
NOTES:

1. LOT FORMED AND RECESSED FOR 5/8 IN.-11 NC X 2 IN. SOCKET HEAD (ALLEN HEAD) CAP SCREW.
2. GRATE SHALL BE CAST IRON PER ASTM A48 CLASS 30 UNLESS OTHERWISE SPECIFIED.
3. SEE SEC. 7.05.
4. THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
5. GRATES SHALL BE MIN 32 IN. CLEAR OF WHERE WHEELCHAIR RAMPS ARE FLUSH WITH PAVEMENT.

KING COUNTY FIG. 7-013
STANDARD GRATE
NTS



PLAN COVER

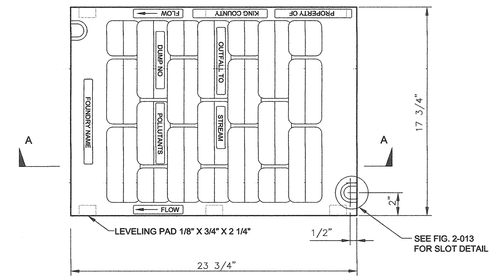


SECTION A-A

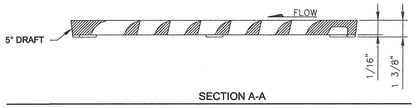
NOTES:

1. USE WITH FRAME (FIG. 7-014) DRILLED AND TAPPED FOR LOCKING BOLTS.
2. USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, MIN. 2 IN. LONG.
3. MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
4. SEE SEC. 7.05.
5. THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

KING COUNTY FIG. 7-015
SOLID COVER
NTS



PLAN

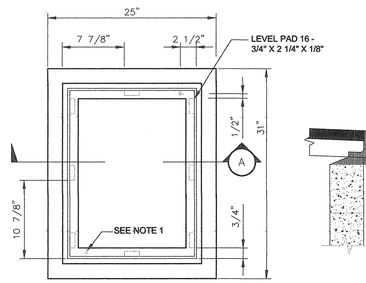


SECTION A-A

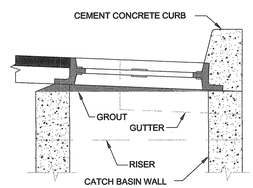
NOTES:

1. SELF-LOCK VANED GRATE MANUFACTURER SUBJECT O APPROVAL BY ENGINEER.
2. USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG. NOTE SLOT DETAIL.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SEE SEC. 7.05.
6. THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.

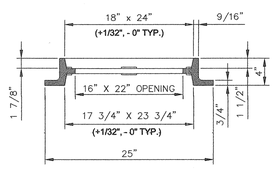
KING COUNTY FIG. 7-018
VANED GRATE
NTS



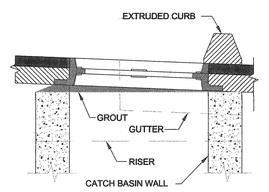
PLAN



VERTICAL CURB
SEE NOTE 4



SECTION A



EXTRUDED CURB
SEE NOTE 4

NOTES:

1. DRILL AND TAP FOR, AND PROVIDE, TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG WHEN USED WITH SOLID COVER (FIG. 7-015) OR WHEN SPECIFIED BY ENGINEER.
2. FRAME MATERIAL IS DUCTILE IRON PER ASTM A48 CLASS 30.
3. SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
4. SEE SEC. 7.05.

KING COUNTY FIG. 7-014
STANDARD FRAME WITH VERTICAL OR EXTRUDED CURB INSTALLATION
NTS

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

STORM DRAIN DETAILS

NWDZ REMEDIATION

DRAWING NUMBER:
C-410
SHEET NUMBER:
REVISION 0

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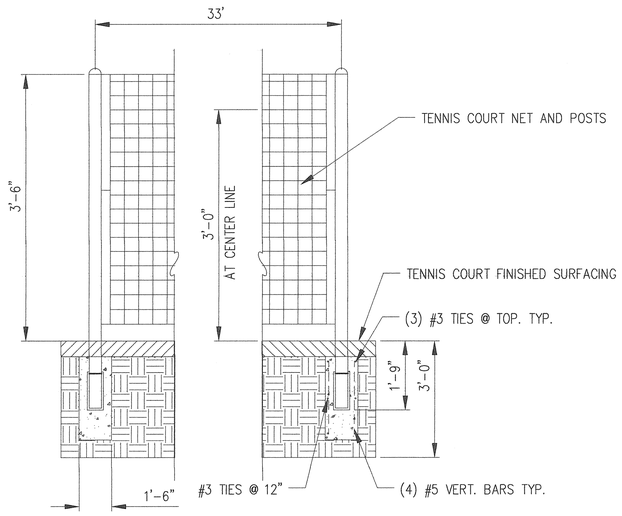

1 C-410A **TENNIS NET POSTS**
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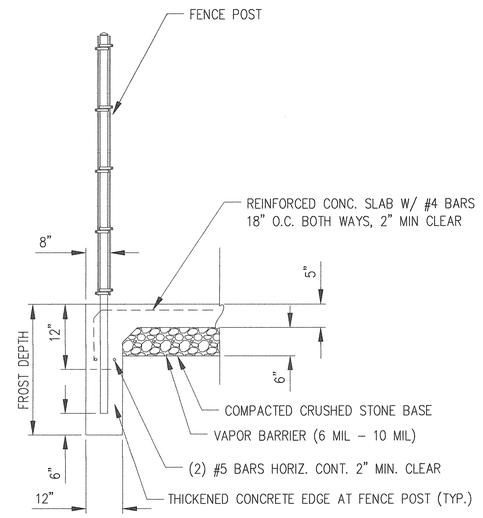
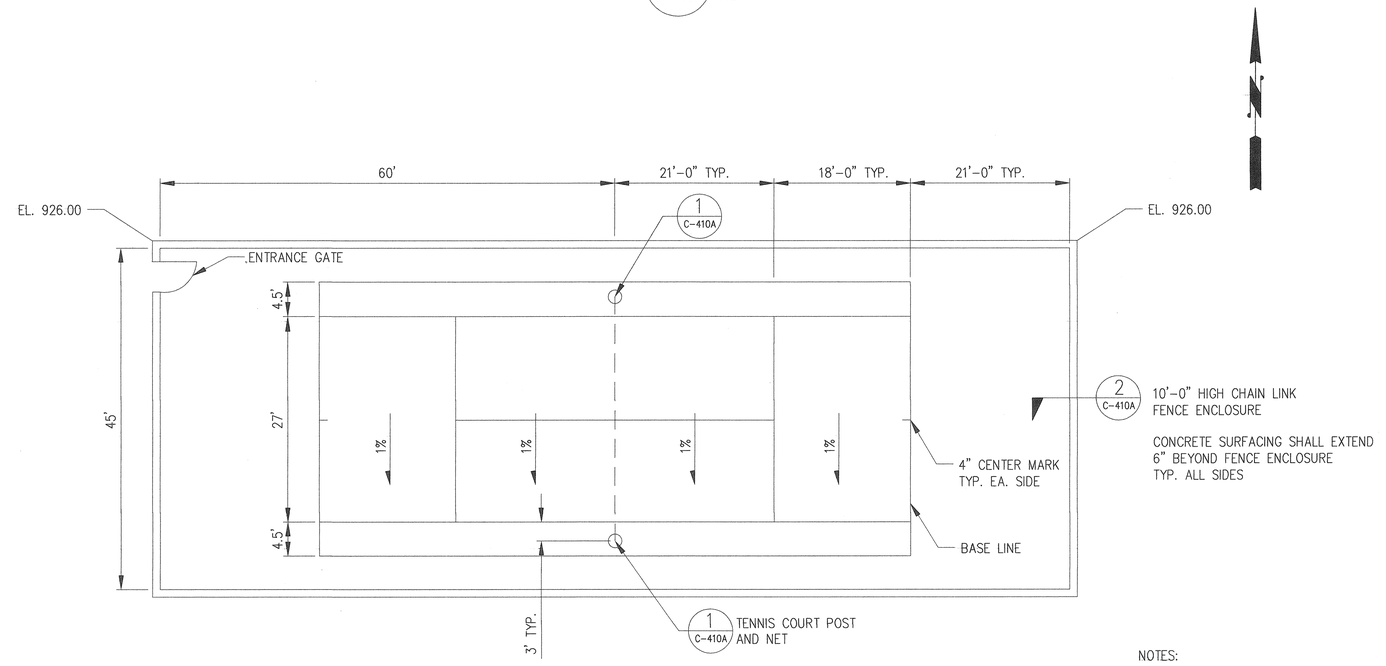


2 C-410A **TYPICAL SECTIONS OF REINFORCED CONCRETE COURT PAVEMENT**
NTS



NOTES:

1. ALL DIMENSIONS SHOWN FOR PAINT LINES ARE TO OUTSIDE EDGES OF THE LINES.
2. BASE LINES ARE 4" WIDTH; ALL OTHER PAINT ARE 2" WIDTH

TENNIS COURT LAYOUT
NTS

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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
7							
6							
5							
4							
3							
2							
1							
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

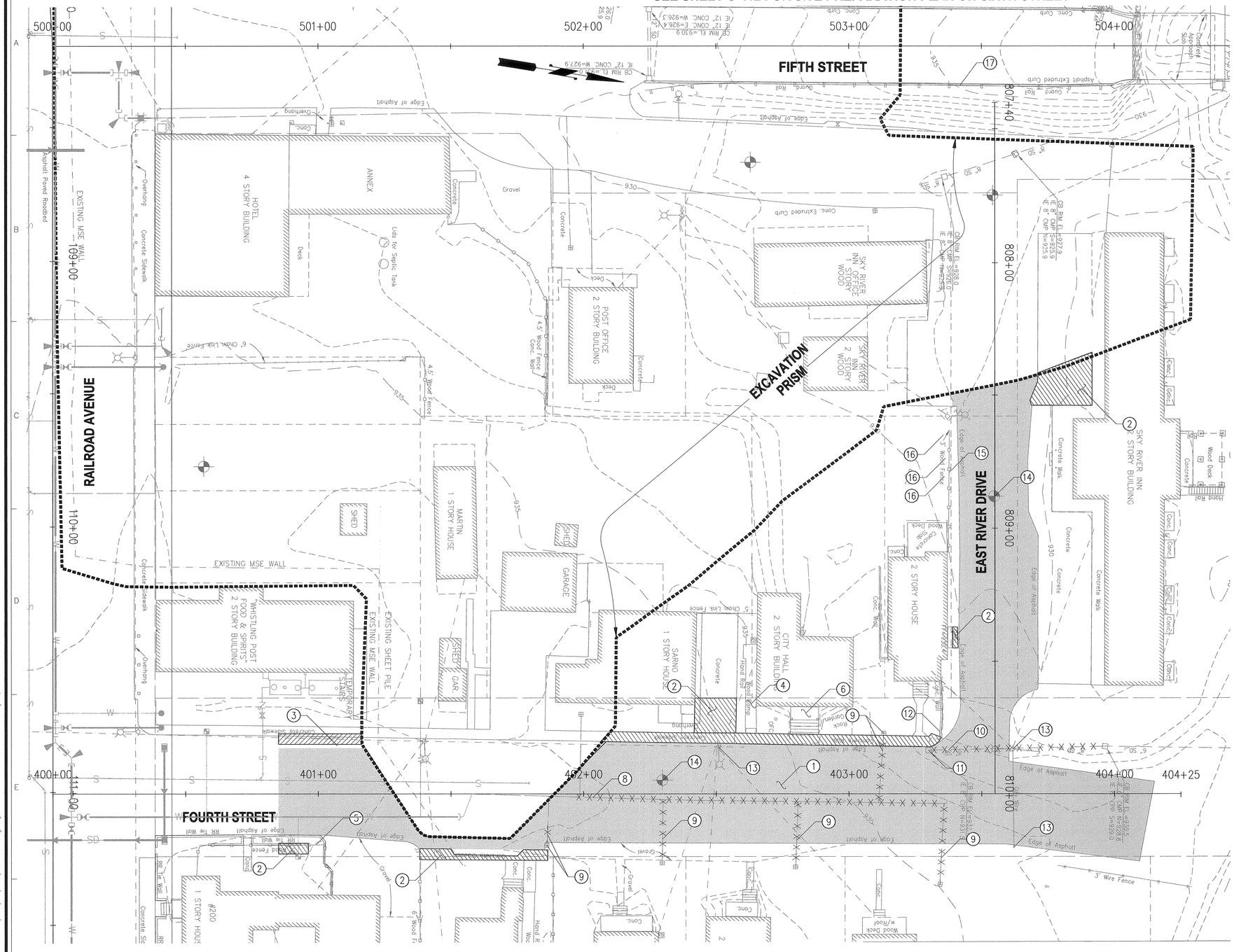
PROJ. NO.: 01140-204-0390 DATE: 05/15/09

MISCALLENOUS DETAILS

NWDZ REMEDIATION

DRAWING NUMBER: C-410A
SHEET NUMBER:
REVISION 0

SEE SHEET C-412 FOR SITE PREPARATION PLAN ON SIXTH STREET



SITE PREPARATION LEGEND

- -X X X X X X - REMOVE WATER OR STORM DRAIN PIPE
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT OR SIDEWALK

SITE PREPARATION NOTES

1. REMOVE ASPHALT CONCRETE PAVEMENT.
2. REMOVE CEMENT CONCRETE PAVEMENT OR SIDEWALK.
3. REMOVE CEMENT CONCRETE CURB & GUTTER.
4. PRESERVE AND PROTECT RAMP.
5. REMOVE WOOD FENCE.
6. PRESERVE AND PROTECT CONCRETE STAIRS.
7. REMOVE AND REPLACE SHRUBS.
8. REMOVE WATER PIPE:
   - STA 401+37, 0' RT TO STA 403+36, 3.7' RT, 200 LF
9. REMOVE WATER SERVICE CONNECTION.
10. REMOVE STORM DRAIN PIPE:
    - STA 403+30, 16.5' LT TO STA 403+97, 18.0' LT, 67 LF
11. REMOVE STORM DRAINAGE STRUCTURE.
12. REMOVE CONCRETE WALL.
13. UTILITY POLE TO BE REMOVED BY OTHERS.
14. PRESERVE AND PROTECT MONUMENT.
15. PRESERVE AND PROTECT WOOD FENCE.
16. PRESERVE AND PROTECT TREE.
17. REMOVE BEAM GUARDRAIL FOR TEMPORARY RAMP.

NOTE: FOR SITE PREPARATION OF AREAS WITHIN THE EXCAVATION PRISM, SEE SHEETS C-101 TO C-107.

0 5 10 20 40 60

SCALE IN FEET

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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

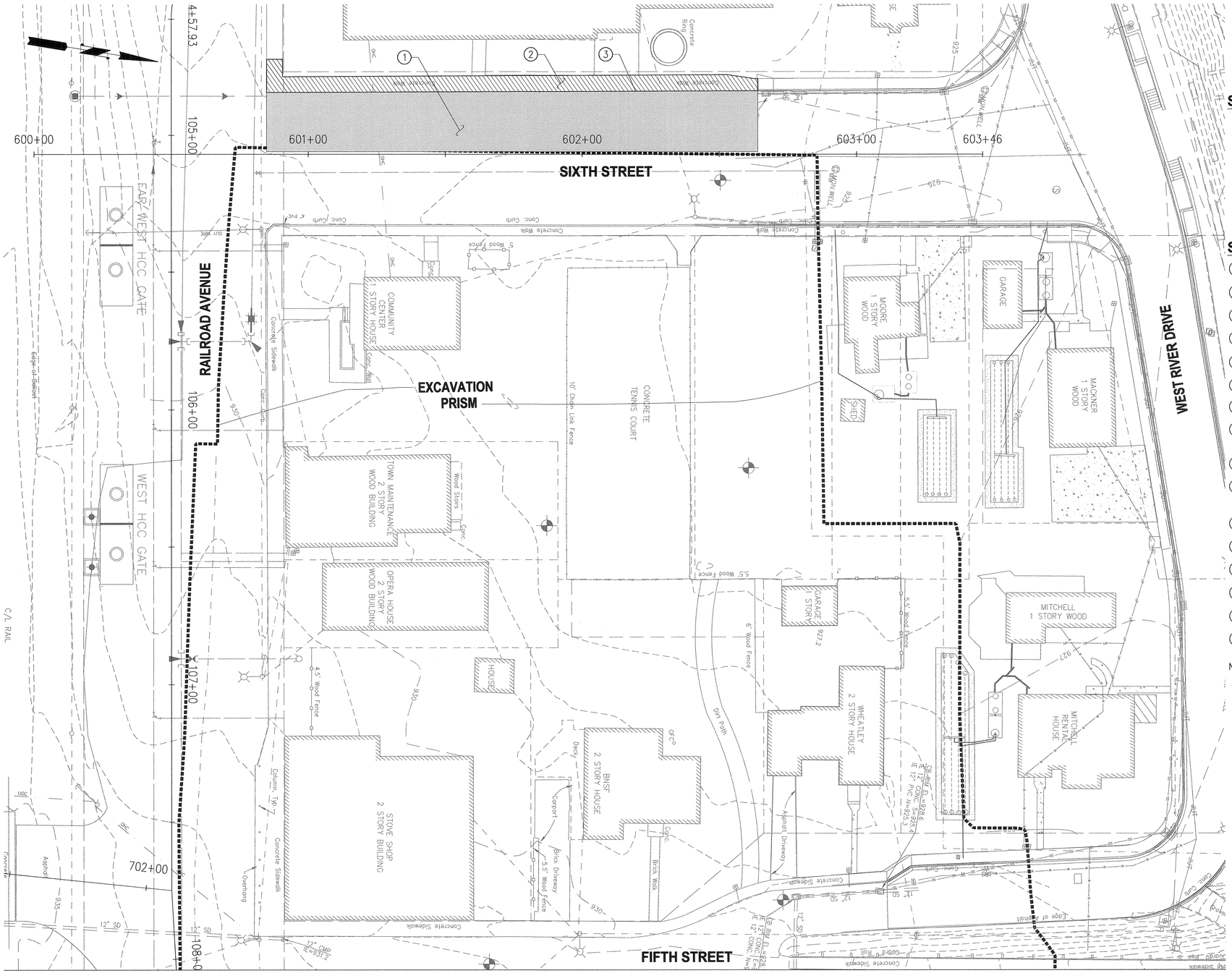
SITE PREPARATION PLAN
4TH & E RIVER & 5TH STREETS

NWDZ REMEDIATION

DRAWING NUMBER: C-411

SHEET NUMBER:

REVISION 0



SITE PREPARATION LEGEND

-X X X X X X- REMOVE WATER OR STORM DRAIN PIPE

REMOVE ASPHALT CONCRETE PAVEMENT

REMOVE CEMENT CONCRETE PAVEMENT OR SIDEWALK

SITE PREPARATION NOTES

1. REMOVE ASPHALT CONCRETE PAVEMENT.
2. REMOVE CEMENT CONCRETE PAVEMENT OR SIDEWALK.
3. REMOVE CEMENT CONCRETE CURB & GUTTER.
4. PRESERVE AND PROTECT RAMP.
5. REMOVE WOOD FENCE.
6. PRESERVE AND PROTECT CONCRETE STAIRS.
7. REMOVE AND REPLACE SHRUBS.
8. REMOVE WATER PIPE:
   – STA 401+37, 0' RT TO STA 403+36, 3.7' RT, 200 LF
9. REMOVE WATER SERVICE CONNECTION.
10. REMOVE STORM DRAIN PIPE:
    – STA 403+30, 16.5' LT TO STA 403+97, 18.0' LT, 67 LF
11. REMOVE STORM DRAINAGE STRUCTURE.
12. REMOVE CONCRETE WALL.
13. UTILITY POLE TO BE REMOVED BY OTHERS.
14. PRESERVE AND PROTECT MONUMENT.
15. PRESERVE AND PROTECT WOOD FENCE.
16. PRESERVE AND PROTECT TREE.

NOTE: FOR SITE PREPARATION OF AREAS WITHIN THE EXCAVATION PRISM, SEE SHEETS C-101 TO C-107.

SEE SHEET C-411 FOR SITE PREPARATION PLAN ON FIFTH STREET

0 5 10 20 40 60

SCALE IN FEET

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

SITE PREPARATION PLAN
FIFTH & SIXTH STREETS

NWDZ REMEDIATION

DRAWING NUMBER:
C-412

SHEET NUMBER:

REVISION | 0

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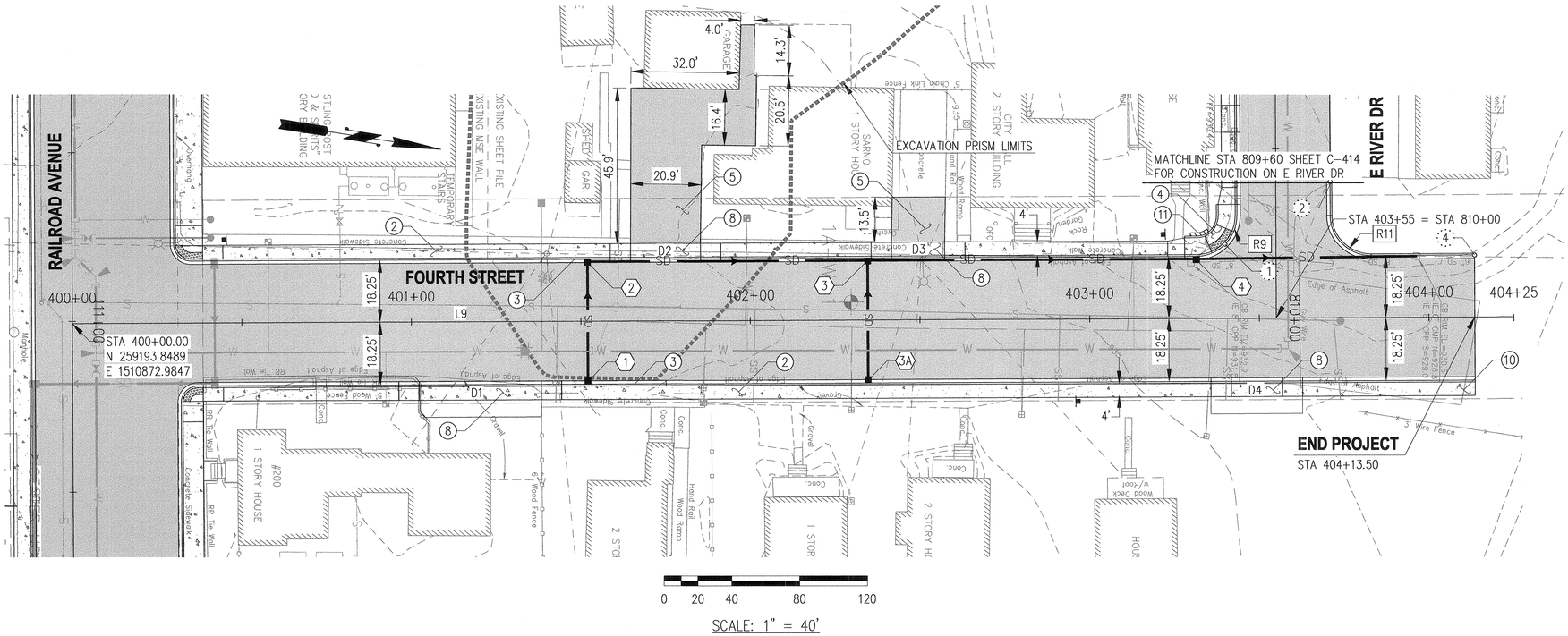
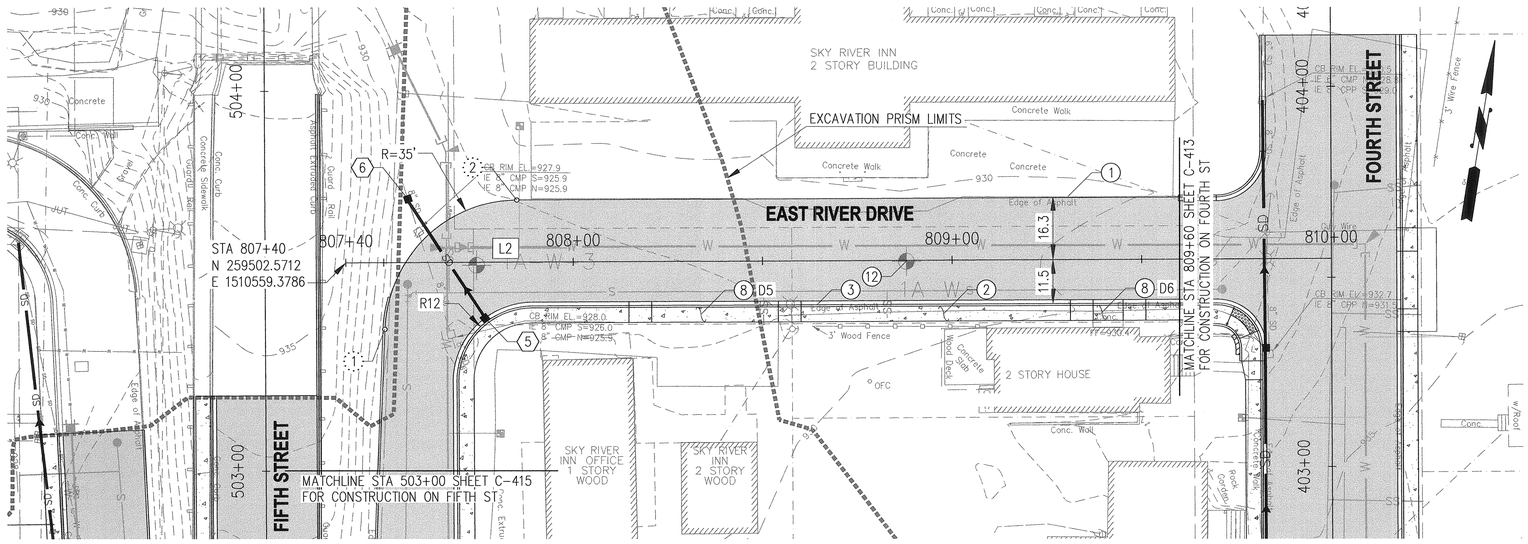
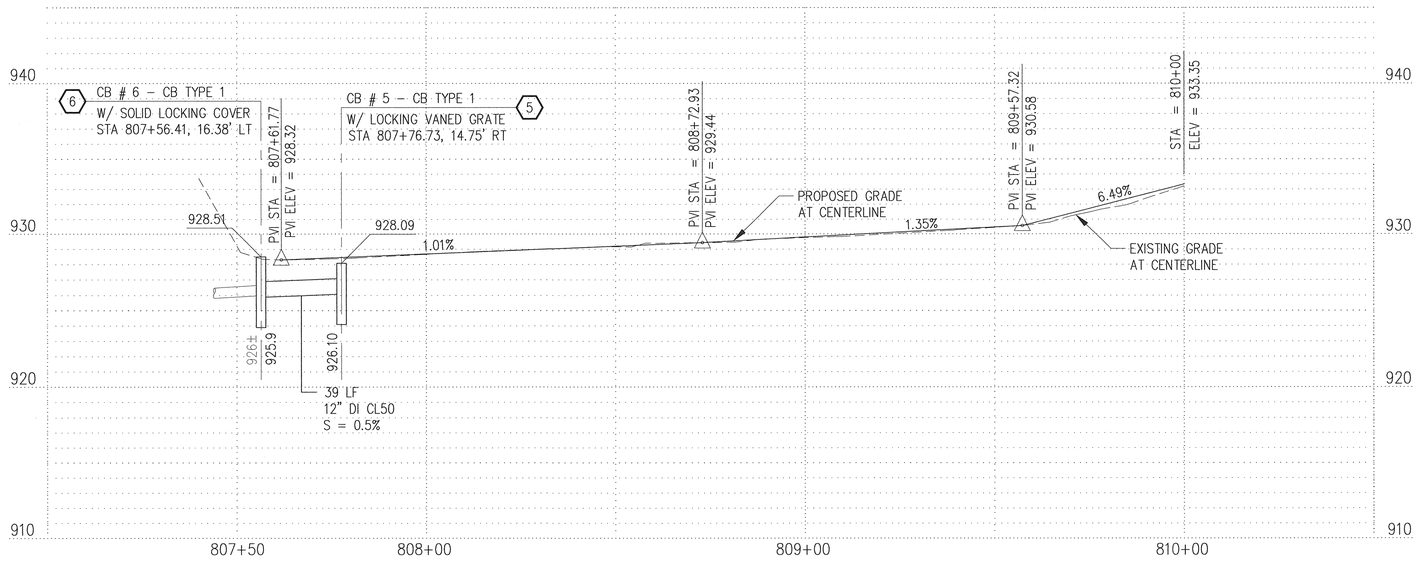

RAILROAD AVENUE
FOURTH STREET
E RIVER DR
EXCAVATION PRISM LIMITS
MATCHLINE STA 809+60 SHEET C-414
FOR CONSTRUCTION ON E RIVER DR
STA 403+55 = STA 810+00
STA 400+00.00
N 259193.8489
E 1510872.9847
END PROJECT
STA 404+13.50
400+00
401+00
402+00
403+00
404+00
404+25
L9
R9
R11
18.25'
4.0'
32.0'
14.3'
16.4'
20.5'
20.9'
45.9'
13.5'
4'
D1
D2
D3
D4
SD
1 STORY HOUSE #200
2 STORY BUILDING
1 STORY HOUSE SARNO
CITY HALL
Edge of Asphalt
Concrete Sidewalk
Wood Fence
Chain Link Fence
Hand Rail
Wood Ramp
Wood Deck w/Roof
3' Wire Fence
Corrugate Sidewalk
RR Tie Wall
Retaining Wall
Overhang
TEMPORARY STAIRS
EXISTING MSE WALL
EXISTING SHEET PILE
GARAGE
GRAVEL
Conc.
Asphalt
Grass
Shrubs
Rockery
Edge of Asphalt
Edge of Concrete
Top of Wall
Bottom of Wall
Top of Slope
Bottom of Slope
Top of Bank
Bottom of Bank
Top of Curb
Gutter
Back of Curb
Face of Curb
Edge of Gravel
Edge of Pavement
Edge of Concrete
Edge of Wood Fence
Edge of Chain Link Fence
Edge of Wood Ramp
Edge of Wood Deck
Edge of Hand Rail
Edge of Retaining Wall
Edge of Overhang
Edge of Corrugate Sidewalk
Edge of Rockery
Edge of Shrubs
Edge of Grass
Edge of Gravel
Edge of Asphalt





POINTS TABLE					
#	POINT	STATION	OFFSET	ELEVATION	NOTES
1	PC	807+50.21	17.52' RT	928.70	PVMT EDGE
2	PT	807+85.17	16.00' LT	929.00	PVMT EDGE

EAST RIVER STREET CL ALIGNMENT DATA

L2 DATA
STA 807+40 TO STA 810+00
N 80°45'51" E 260'

R12 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 807+69.15	TOP OF CURB
31.50' RT	ELEVATIONS:
Δ = 90-00-00	BEGIN 928.30
R = 20.00'	¼Δ 928.20
L = 31.42'	½Δ 928.09
T = 20.00'	¾Δ 928.17
PT – 809+89.15	END 928.27
11.50' RT	

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

CONSTRUCTION NOTES

1. MATCH EXISTING ASPHALT CONCRETE ROADWAY AND/OR CONCRETE SIDEWALK/CURB/PAVEMENT PER THESE PLANS AND TYPICAL SECTIONS. SAWCUT NEAT VERTICAL LINE AND PROVIDE JOINT SEAL PER WSDOT SEC. 9-04.
2. CONSTRUCT SIDEWALK PER TYPICAL SECTION, SHEETS C-400 THROUGH C-405.
3. CONSTRUCT CEMENT CONCRETE VERTICAL CURB & GUTTER PER TYPICAL SECTION, SHEET C-406.
4. CONSTRUCT KING COUNTY TYPE 2A CURB RAMP PER DETAIL, SHEET C-407.
5. CONSTRUCT CEMENT CONCRETE DRIVEWAY/PARKING PAVEMENT PER TYPICAL SECTION, SHEET C-406.
6. PROTECT EXISTING CONCRETE CURB.
7. PROTECT EXISTING CONCRETE SIDEWALK.
8. CONSTRUCT DRIVEWAY APPROACH PER SCHEDULE, THIS SHEET, AND DETAIL, SHEET C-406.
9. CONSTRUCT SIDEWALK TRANSITION RAMP PER DETAIL, SHEET C-406.
10. CONSTRUCT ASPHALT RAMP PER DETAIL, SHEET C-406.
11. INSTALL MODULAR BLOCK WALL, PER DETAIL, SHEET C-406.
12. ADJUST MONUMENT CASE AND COVER TO GRADE.
13. CONSTRUCT ASPHALT DRIVEWAY PER TYPICAL SECTION, SHEET C-406.
14. CONSTRUCT BEAM GUARDRAIL TYPE 1 PER WSDOT STD PLAN C-1.
15. CONSTRUCT EXTRUDED CONCRETE CURB PER KING COUNTY STD PLAN FIG. 3-002.
16. CONSTRUCT BEAM GUARDRAIL NON-FLARED TERMINAL PER WSDOT STD PLAN C-4E.
17. CONSTRUCT CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER PER KING COUNTY STD PLAN FIG. 3-014.
18. INSTALL MOUNTABLE CURB AND GUTTER PER DETAIL SHEET C-407.
19. INSTALL CURB RAMP PER DETAIL SHEET C-407.
20. CONSTRUCT CONCRETE TENNIS COURT PER DETAIL SHEET C-410A.

GENERAL DRAINAGE NOTES

1. ALL STORM SEWER MATERIALS SHALL CONFORM TO KING COUNTY AND WSDOT/APWA STANDARD SPECIFICATIONS.
2. STORM SEWER CONVEYANCE PIPES ARE LOCATED NEAR ROADWAY SURFACES, WITH LESS THAN 2 LF COVER. CONTRACTOR SHALL PROTECT STORM SEWER SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES SUCH AS ROADWAY COMPACTION.
3. PIPE CONNECTIONS TO CATCH BASINS MAY REQUIRE BASIN MODIFICATION DUE TO SHALLOW PIPE DEPTHS. IT IS ASSUMED THAT A CATCH BASIN CASING WITH 4-INCH DEPTH AND A 2-INCH RISER CAN BE ACCOMMODATED.

DRIVEWAY APPROACH SCHEDULE

NO.	℄ STATION	APPROACH WIDTH (FT)	DRIVEWAY NOTES
D5	808+37.37, RT	33.5	CONSTRUCT ASPHALT DRIVEWAY, AS SHOWN
D6	809+41.06, RT	7.9	MATCH TO EXISTING CONCRETE DRIVEWAY AT BACK OF APPROACH

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

ROADWAY & STORM PLAN AND PROFILE
EAST RIVER DRIVE

NWDZ REMEDIATION

DRAWING NUMBER: C-414
SHEET NUMBER:
REVISION 0

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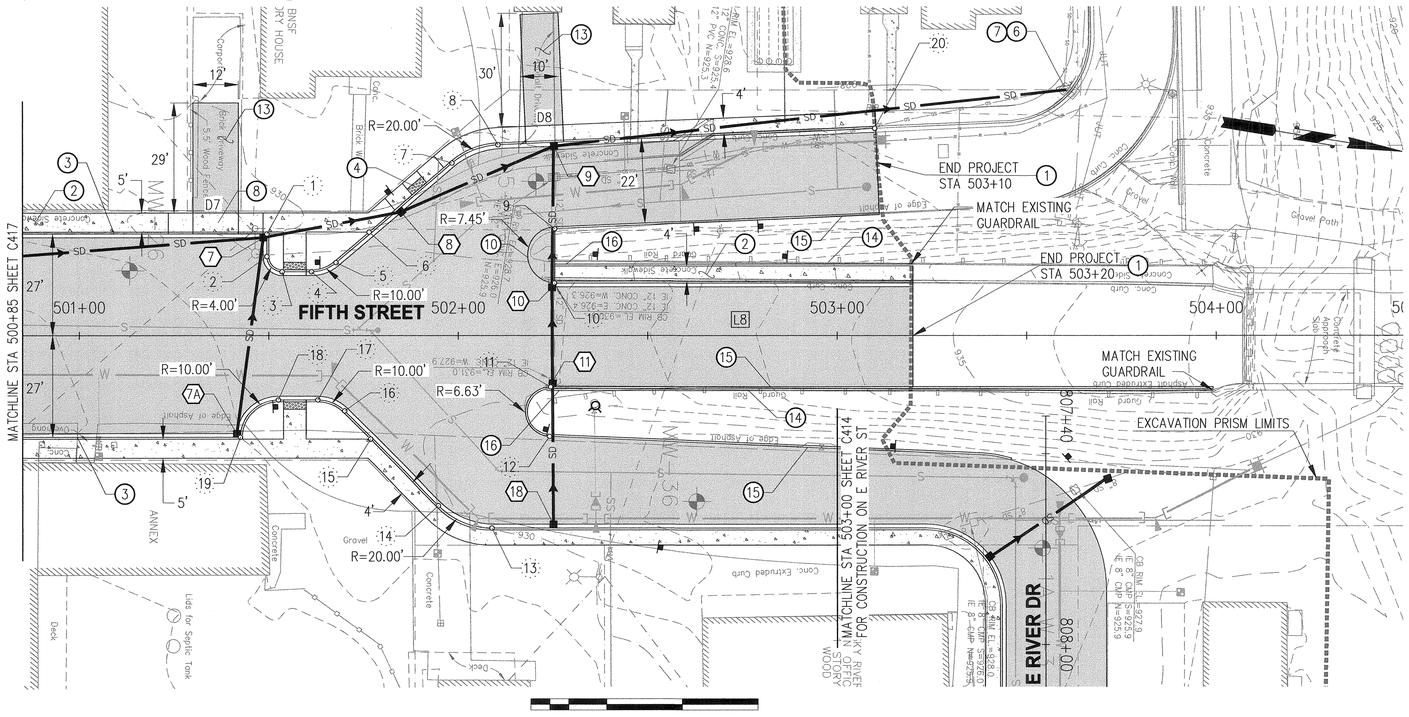
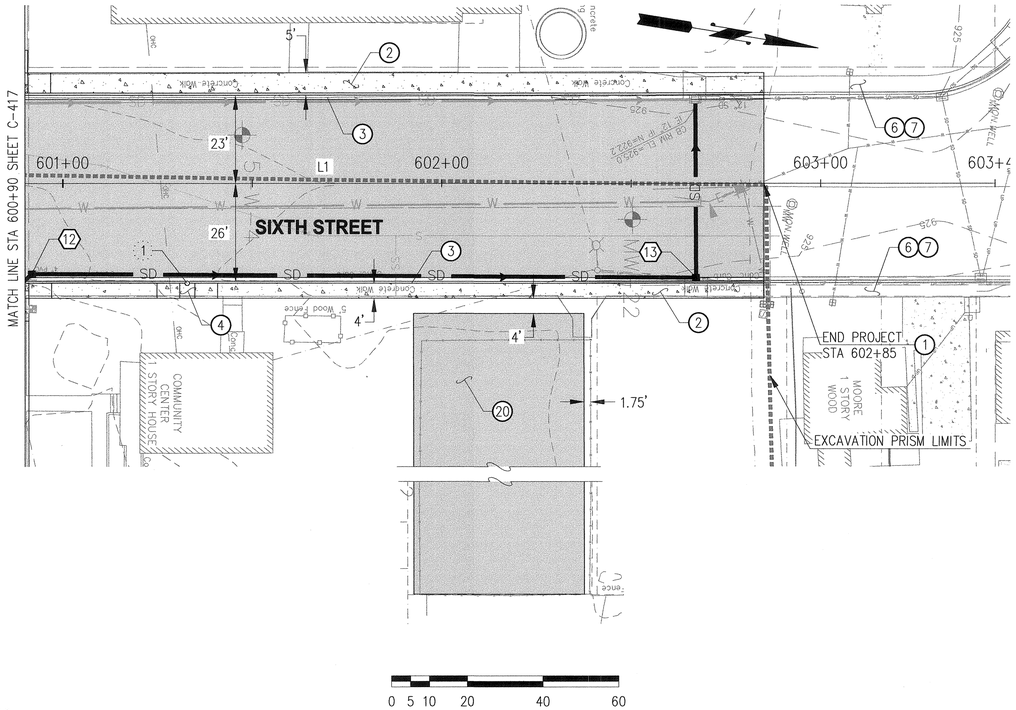
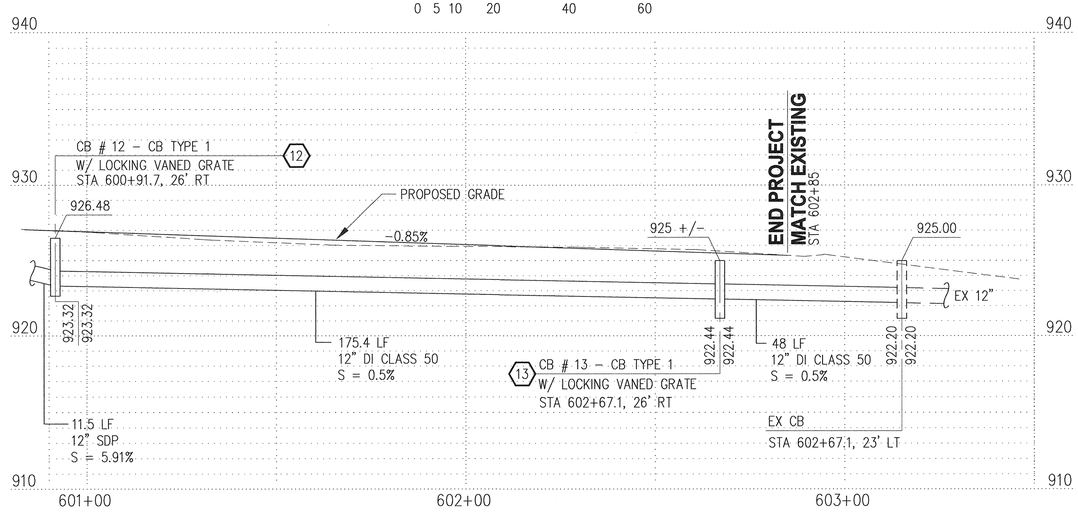

MATCHLINE STA 500+85 SHEET C417
501+00
502+00
503+00
504+00
FIFTH STREET
R=4.00'
R=10.00'
R=7.45'
R=20.00'
R=6.63'
END PROJECT
STA 503+10
MATCH EXISTING
GUARDRAIL
END PROJECT
STA 503+20
MATCH EXISTING
GUARDRAIL
EXCAVATION PRISM LIMITS
MATCHLINE STA 503+00 SHEET C414
FOR CONSTRUCTION ON E RIVER ST
E RIVER DR
BNSF
RY HOUSE
ANNEX
Gravel Path
Septic Tank
Deck
Concrete
Gravel
Brick Driveway
Brick Walk
Concrete Sidewalk
Asphalt Extruded Curb
Conc. Curb
Conc. Extruded Curb
Guard Rail
Edge of Asphalt
Edge of Gravel
Approach Slab
Overhead Wires
Fence
Retaining Wall
Top of Bank
Toe of Bank
Top of Slope
Toe of Slope
Ditch
Culvert
CB RIM EL=927.20
IE 8" CMP N=925.9
IE 8" CMP S=926.0
CB RIM EL=928.0
IE 12" CONC E=926.4
IE 12" CONC W=926.3
CB RIM EL=931.0
IE 12" CONC E=927.9
IE 12" CONC W=927.9
CB RIM EL=930.0
IE 12" CONC N=925.4
IE 12" PVC N=925.5
CB RIM EL=928.6
IE 12" CONC S=926.6
IE 12" CONC N=926.5
CB RIM EL=931.0
IE 12" CONC S=927.9
IE 12" CONC N=927.9
CB RIM EL=930.0
IE 12" CONC S





CONSTRUCTION NOTES

1. MATCH EXISTING ASPHALT CONCRETE ROADWAY AND/OR CONCRETE SIDEWALK/CURB/PAVEMENT PER THESE PLANS AND TYPICAL SECTIONS. SAWCUT NEAT VERTICAL LINE AND PROVIDE JOINT SEAL PER WSDOT SEC. 9-04.
2. CONSTRUCT SIDEWALK PER TYPICAL SECTION, SHEETS C-400 THROUGH C-405.
3. CONSTRUCT CEMENT CONCRETE VERTICAL CURB & GUTTER PER TYPICAL SECTION, SHEET C-406.
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6. PROTECT EXISTING CONCRETE CURB.
7. PROTECT EXISTING CONCRETE SIDEWALK.
8. CONSTRUCT DRIVEWAY APPROACH PER SCHEDULE, THIS SHEET, AND DETAIL, SHEET C-406.
9. CONSTRUCT SIDEWALK TRANSITION RAMP PER DETAIL, SHEET C-406.
10. CONSTRUCT ASPHALT RAMP PER DETAIL, SHEET C-406.
11. INSTALL MODULAR BLOCK WALL, PER DETAIL, SHEET C-406.
12. ADJUST MONUMENT CASE AND COVER TO GRADE.
13. CONSTRUCT ASPHALT DRIVEWAY PER TYPICAL SECTION, SHEET C-406.
14. CONSTRUCT BEAM GUARDRAIL TYPE 1 PER WSDOT STD PLAN C-1.
15. CONSTRUCT EXTRUDED CONCRETE CURB PER KING COUNTY STD PLAN FIG. 3-002.
16. CONSTRUCT BEAM GUARDRAIL NON-FLARED TERMINAL PER WSDOT STD PLAN C-4E.
17. CONSTRUCT CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER PER KING COUNTY STD PLAN FIG. 3-014.
18. INSTALL MOUNTABLE CURB AND GUTTER PER DETAIL SHEET C-407.
19. INSTALL CURB RAMP PER DETAIL SHEET C-407.
20. CONSTRUCT CONCRETE TENNIS COURT PER DETAIL SHEET C-410A.

GENERAL DRAINAGE NOTES

1. ALL STORM SEWER MATERIALS SHALL CONFORM TO KING COUNTY AND WSDOT/APWA STANDARD SPECIFICATIONS.
2. STORM SEWER CONVEYANCE PIPES ARE LOCATED NEAR ROADWAY SURFACES, WITH LESS THAN 2 LF COVER. CONTRACTOR SHALL PROTECT STORM SEWER SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES SUCH AS ROADWAY COMPACTION.
3. PIPE CONNECTIONS TO CATCH BASINS MAY REQUIRE BASIN MODIFICATION DUE TO SHALLOW PIPE DEPTHS. IT IS ASSUMED THAT A CATCH BASIN CASING WITH 4-INCH DEPTH AND A 2-INCH RISER CAN BE ACCOMMODATED.

SIXTH STREET CL ALIGNMENT DATA

L1 DATA
STA 600+00 TO STA 603+46
N 09°14'09" W 346.00'

POINTS TABLE				
	POINT	STATION	OFFSET	ELEVATION
1	℄ RAMP	601+32.81	26.50' RT	–

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0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

BURLINGTON NORTHERN
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

ROADWAY & STORM SEWER
PLAN & PROFILE
SIXTH STREET

NWDZ REMEDIATION

DRAWING NUMBER:
C-416

SHEET NUMBER:

REVISION 0

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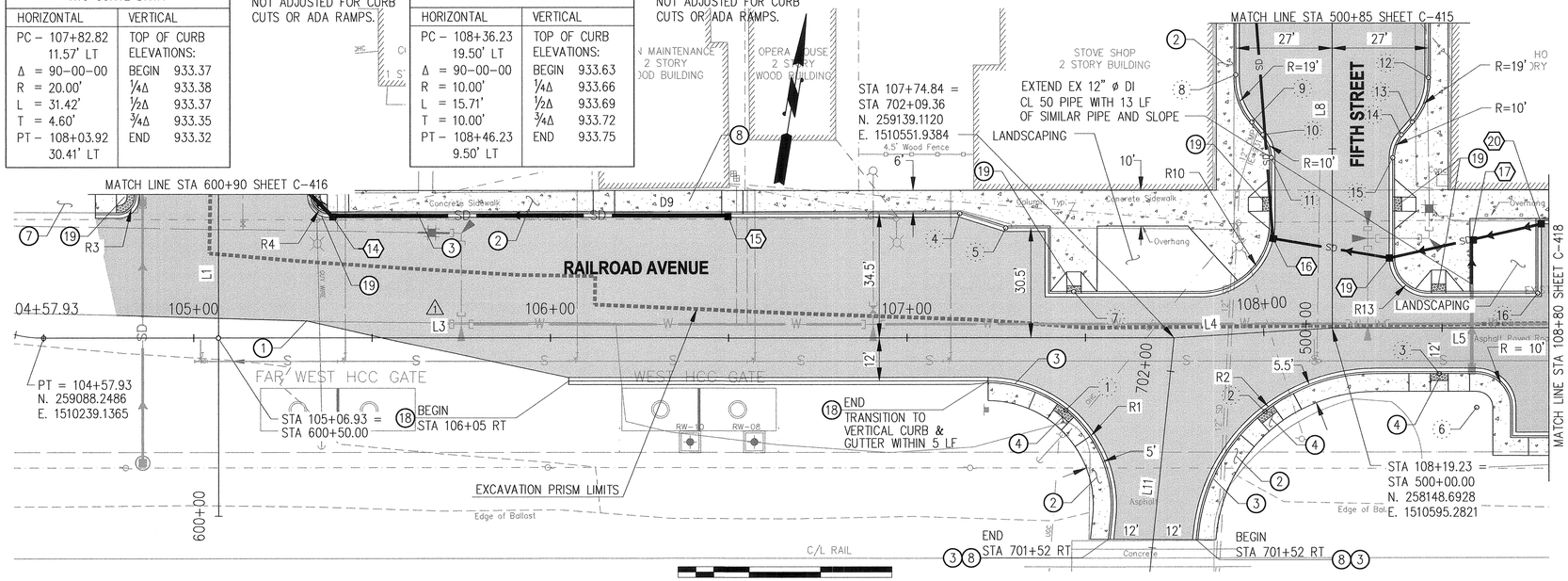
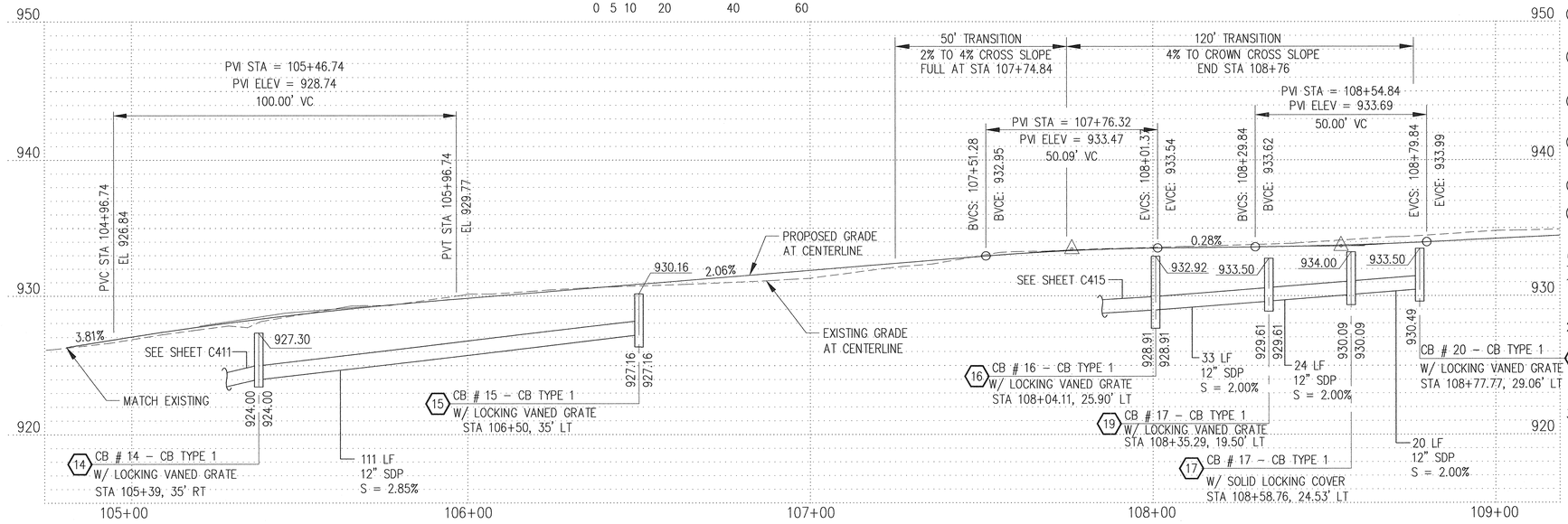
R10 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 107+82.82 11.57' LT	TOP OF CURB ELEVATIONS:
Δ = 90–00–00	BEGIN 933.37
R = 20.00'	¼Δ 933.38
L = 31.42'	½Δ 933.37
T = 4.60'	¾Δ 933.35
PT – 108+03.92 30.41' LT	END 933.32

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

R13 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 108+36.23 19.50' LT	TOP OF CURB ELEVATIONS:
Δ = 90–00–00	BEGIN 933.63
R = 10.00'	¼Δ 933.66
L = 15.71'	½Δ 933.69
T = 10.00'	¾Δ 933.72
PT – 108+46.23 9.50' LT	END 933.75

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.





CONSTRUCTION NOTES

1. MATCH EXISTING ASPHALT CONCRETE ROADWAY AND/OR CONCRETE SIDEWALK/CURB/PAVEMENT PER THESE PLANS AND TYPICAL SECTIONS. SAWCUT NEAT VERTICAL LINE AND PROVIDE JOINT SEAL PER WSDOT SEC. 9–04.
2. CONSTRUCT SIDEWALK PER TYPICAL SECTION, SHEETS C–400 THROUGH C–405.
3. CONSTRUCT CEMENT CONCRETE VERTICAL CURB & GUTTER PER TYPICAL SECTION, SHEET C–406.
4. CONSTRUCT KING COUNTY TYPE 2A CURB RAMP PER DETAIL, SHEET C–407.
5. CONSTRUCT CEMENT CONCRETE DRIVEWAY/PARKING PAVEMENT PER TYPICAL SECTION, SHEET C–406.
6. PROTECT EXISTING CONCRETE CURB.
7. PROTECT EXISTING CONCRETE SIDEWALK.
8. CONSTRUCT DRIVEWAY APPROACH PER SCHEDULE, THIS SHEET, AND DETAIL, SHEET C–406.
9. CONSTRUCT SIDEWALK TRANSITION RAMP PER DETAIL, SHEET C–406.
10. CONSTRUCT ASPHALT RAMP PER DETAIL, SHEET C–406.
11. INSTALL MODULAR BLOCK WALL, PER DETAIL, SHEET C–406.
12. ADJUST MONUMENT CASE AND COVER TO GRADE.
13. CONSTRUCT ASPHALT DRIVEWAY PER TYPICAL SECTION, SHEET C–406.
14. CONSTRUCT BEAM GUARDRAIL TYPE 1 PER WSDOT STD PLAN C–1.
15. CONSTRUCT EXTRUDED CONCRETE CURB PER KING COUNTY STD PLAN FIG. 3–002.
16. CONSTRUCT BEAM GUARDRAIL NON–FLARED TERMINAL PER WSDOT STD PLAN C–4E.
17. CONSTRUCT CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER PER KING COUNTY STD PLAN FIG. 3–014.
18. INSTALL MOUNTABLE CURB AND GUTTER PER DETAIL SHEET C–407.
19. INSTALL CURB RAMP PER DETAIL SHEET C–407.
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GENERAL DRAINAGE NOTES

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3. PIPE CONNECTIONS TO CATCH BASINS MAY REQUIRE BASIN MODIFICATION DUE TO SHALLOW PIPE DEPTHS. IT IS ASSUMED THAT A CATCH BASIN CASING WITH 4–INCH DEPTH AND A 2–INCH RISER CAN BE ACCOMMODATED.

DRIVEWAY APPROACH SCHEDULE

NO.	℄ STATION	APPROACH WIDTH (FT)	DRIVEWAY NOTES
D9	106+33.00, LT	30.0	REBUILD CONC DW PER PLAN

FIFTH STREET CL ALIGNMENT DATA

L8 DATA
STA 500+00 TO STA 504+56.32
S 09°14'09" E 456.32'

BNSF RAILROAD CROSSING CL ALIGNMENT DATA

L11 DATA
STA 700+00 TO STA 702+09.36
S 03°18'24" E 209.36'

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SIXTH STREET CL ALIGNMENT DATA

L1 DATA
STA 600+00 TO STA 603+46
N 09°14'09" W 346.00'

R1 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 107+22.71 12.00' RT	TOP OF CURB ELEVATIONS:
Δ = 95–55–45	BEGIN 933.11'
R = 35.00'	¼Δ 933.56'
L = 58.60'	½Δ 934.37'
T = 38.82'	¾Δ 935.39'
PT – 701+57.23 12.00' LT	END 936.22'

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

R2 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 701+55.98 12.00' RT	TOP OF CURB ELEVATIONS:
Δ = 84–04–15	BEGIN 936.28'
R = 50.00'	¼Δ 935.46'
L = 73.37'	½Δ 934.83'
T = 45.08'	¾Δ 934.62'
PT – 108+31.07 12.00' RT	END 934.44'

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

R3 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 104+78.84 34.29' LT	TOP OF CURB ELEVATIONS:
Δ = 90–00–00	BEGIN 925.90
R = 5.00'	¼Δ 926.00
L = 7.85'	½Δ 926.00
T = 5.00'	¾Δ 926.00
PT – 600+89.29 23.09' LT	END 926.00

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

R4 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 105+37.93 34.50' LT	TOP OF CURB ELEVATIONS:
Δ = 90–00–00	BEGIN 928.30
R = 5.00'	¼Δ 928.30
L = 7.85'	½Δ 928.20
T = 5.00'	¾Δ 928.10
PT – 600+89.50 26.00' RT	END 928.00

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

RAILROAD AVENUE CL ALIGNMENT DATA

L3 DATA
STA 104+57.93 TO STA 107+74.84
N 80°45'51" E 316.91'

L4 DATA
STA 107+74.84 TO STA 108+19.23
N 77°32'08" E 44.39'

L5 DATA
STA 108+19.23 TO STA 113+95.26
N 80°45'51" E 576.02'

POINTS TABLE				
		STATION	OFFSET	ELEVATION
1	℄ RAMP	107+44.52	20.27' RT	933.53'
2	℄ RAMP	107+99.13	22.05' RT	934.28'
3	℄ RAMP	108+49.23	12.00' RT	–
4	AP	107+14.84	34.50' LT	932.00
5	AP	107+27.70	30.50' LT	932.40
6	RADIUS	108+59.73	22.00' RT	–
7	℄ RAMP	107+46.79	12.50' LT	–
8	EOP PC	500+69.94	27.00' LT	931.91
9	EOP PT	500+57.61	22.45' LT	932.05
10	EOP PC	500+54.03	19.39' LT	932.09
11	EOP PT	500+47.53	17.00' LT	932.17
12	EOP PC	500+69.94	27.00' RT	931.91
13	EOP PT	500+57.61	22.45' RT	932.05
14	EOP PT	500+54.03	19.39' RT	932.09
15	EOP PT	500+47.53	17.00' RT	932.17
16	FOC	108+76.83	9.50' LT	934.19

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

ROADWAY & STORM SEWER
PLAN & PROFILE
STA 104+50 TO STA 108+80

NWDZ REMEDIATION

DRAWING NUMBER:
C-417

SHEET NUMBER:

REVISION 0

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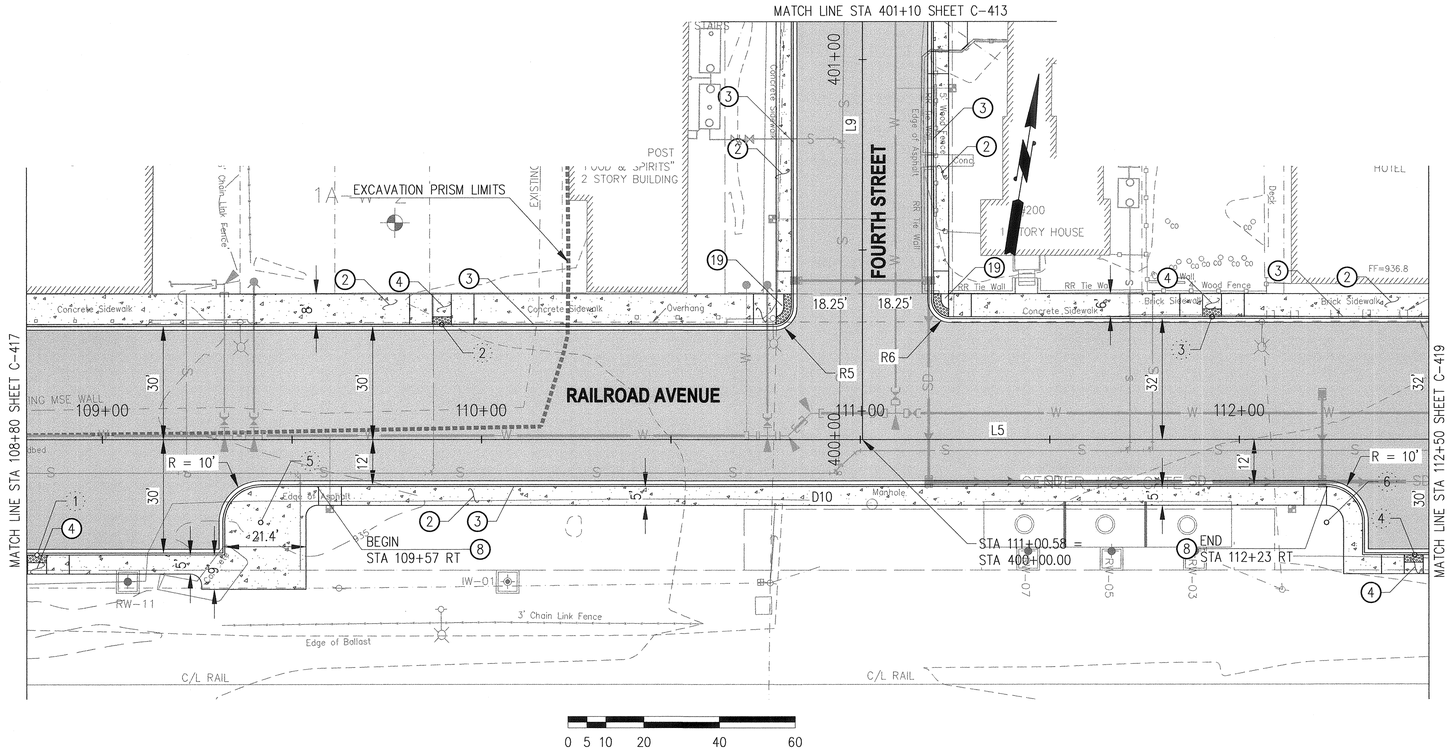

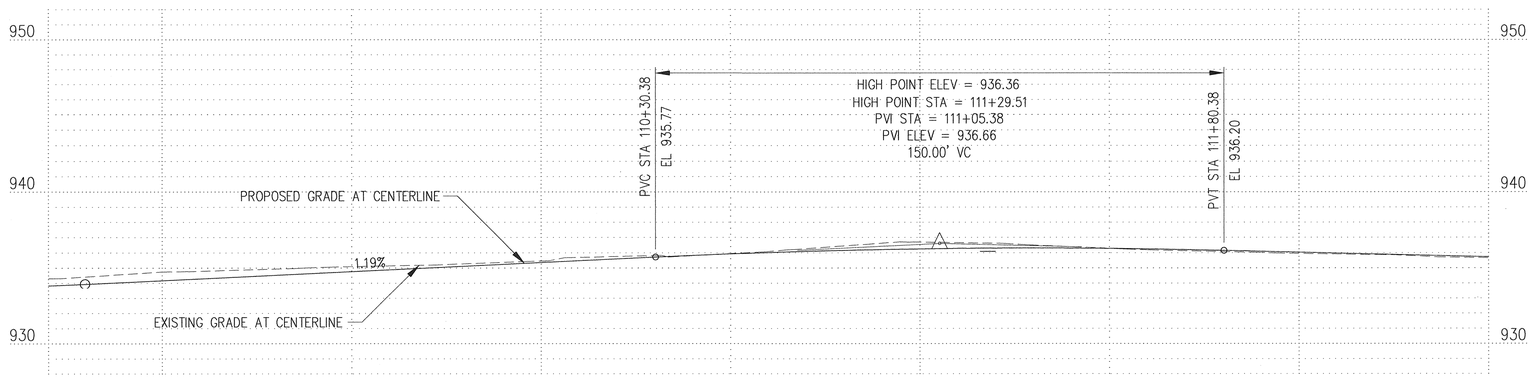

CONSTRUCTION NOTES

1. MATCH EXISTING ASPHALT CONCRETE ROADWAY AND/OR CONCRETE SIDEWALK/CURB/PAVEMENT PER THESE PLANS AND TYPICAL SECTIONS. SAWCUT NEAT VERTICAL LINE AND PROVIDE JOINT SEAL PER WSDOT SEC. 9-04.
2. CONSTRUCT SIDEWALK PER TYPICAL SECTION, SHEETS C-400 THROUGH C-405.
3. CONSTRUCT CEMENT CONCRETE VERTICAL CURB & GUTTER PER TYPICAL SECTION, SHEET C-406.
4. CONSTRUCT KING COUNTY TYPE 2A CURB RAMP PER DETAIL, SHEET C-407.
5. CONSTRUCT CEMENT CONCRETE DRIVEWAY/PARKING PAVEMENT PER TYPICAL SECTION, SHEET C-406.
6. PROTECT EXISTING CONCRETE CURB.
7. PROTECT EXISTING CONCRETE SIDEWALK.
8. CONSTRUCT DRIVEWAY APPROACH PER SCHEDULE, THIS SHEET, AND DETAIL, SHEET C-406.
9. CONSTRUCT SIDEWALK TRANSITION RAMP PER DETAIL, SHEET C-406.
10. CONSTRUCT ASPHALT RAMP PER DETAIL, SHEET C-406.
11. INSTALL MODULAR BLOCK WALL, PER DETAIL, SHEET C-406.
12. ADJUST MONUMENT CASE AND COVER TO GRADE.
13. CONSTRUCT ASPHALT DRIVEWAY PER TYPICAL SECTION, SHEET C-406.
14. CONSTRUCT BEAM GUARDRAIL TYPE 1 PER WSDOT STD PLAN C-1.
15. CONSTRUCT EXTRUDED CONCRETE CURB PER KING COUNTY STD PLAN FIG. 3-002.
16. CONSTRUCT BEAM GUARDRAIL NON-FLARED TERMINAL PER WSDOT STD PLAN C-4E.
17. CONSTRUCT CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER PER KING COUNTY STD PLAN FIG. 3-014.
18. INSTALL MOUNTABLE CURB AND GUTTER PER DETAIL SHEET C-407.
19. INSTALL CURB RAMP PER DETAIL SHEET C-407.

GENERAL DRAINAGE NOTES

1. ALL STORM SEWER MATERIALS SHALL CONFORM TO KING COUNTY AND WSDOT/APWA STANDARD SPECIFICATIONS.
2. STORM SEWER CONVEYANCE PIPES ARE LOCATED NEAR ROADWAY SURFACES, WITH LESS THAN 2 LF COVER. CONTRACTOR SHALL PROTECT STORM SEWER SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES SUCH AS ROADWAY COMPACTION.
3. PIPE CONNECTIONS TO CATCH BASINS MAY REQUIRE BASIN MODIFICATION DUE TO SHALLOW PIPE DEPTHS. IT IS ASSUMED THAT A CATCH BASIN CASING WITH 4-INCH DEPTH AND A 2-INCH RISER CAN BE ACCOMMODATED.

POINTS TABLE				
	POINT	STATION	OFFSET	ELEVATION
1	℄ RAMP	108+82.73	30.50' LT	–
2	℄ RAMP	109+89.58	30.50' LT	–
3	℄ RAMP	111+92.83	32.50' LT	–
4	℄ RAMP	112+46.26	30.50' RT	–
5	RADIUS	109+41.73	22.00' RT	–
6	RADIUS	112+23.00	22.00' RT	–

RAILROAD AVENUE CL ALIGNMENT DATA

L5 DATA
STA 108+19.23 TO STA 113+95.26
N 80°45'51" E 576.02'

FOURTH STREET CL ALIGNMENT DATA

L9 DATA
STA 400+00 TO STA 404+75.51
S 09°14'09" E 475.51'

R5 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 110+77.53	TOP OF CURB
30.00' LT	ELEVATIONS:
Δ = 90-00-00	BEGIN 936.73'
R = 5.00'	¼Δ 936.70'
L = 7.85'	½Δ 936.68'
T = 5.00'	¾Δ 936.65'
PT – 400+35.00	END 936.62'
18.25' LT	

R6 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 400+37.00	TOP OF CURB
18.25' LT	ELEVATIONS:
Δ = 90-00-00	BEGIN 936.64'
R = 5.00'	¼Δ 936.68'
L = 7.85'	½Δ 936.72'
T = 5.00'	¾Δ 936.76'
PT – 111+23.83	END 936.80'
12.10' LT	

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

DRIVEWAY APPROACH SCHEDULE

NO.	℄ STATION	APPROACH WIDTH (FT)	DRIVEWAY NOTES
D10	110+90.00, RT	254.0	REBUILD CONC DW PER PLAN

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

ROADWAY & STORM SEWER PLAN & PROFILE STA 108+80 TO 112+50

NWDZ REMEDIATION

DRAWING NUMBER: C-418
SHEET NUMBER:
REVISION 0

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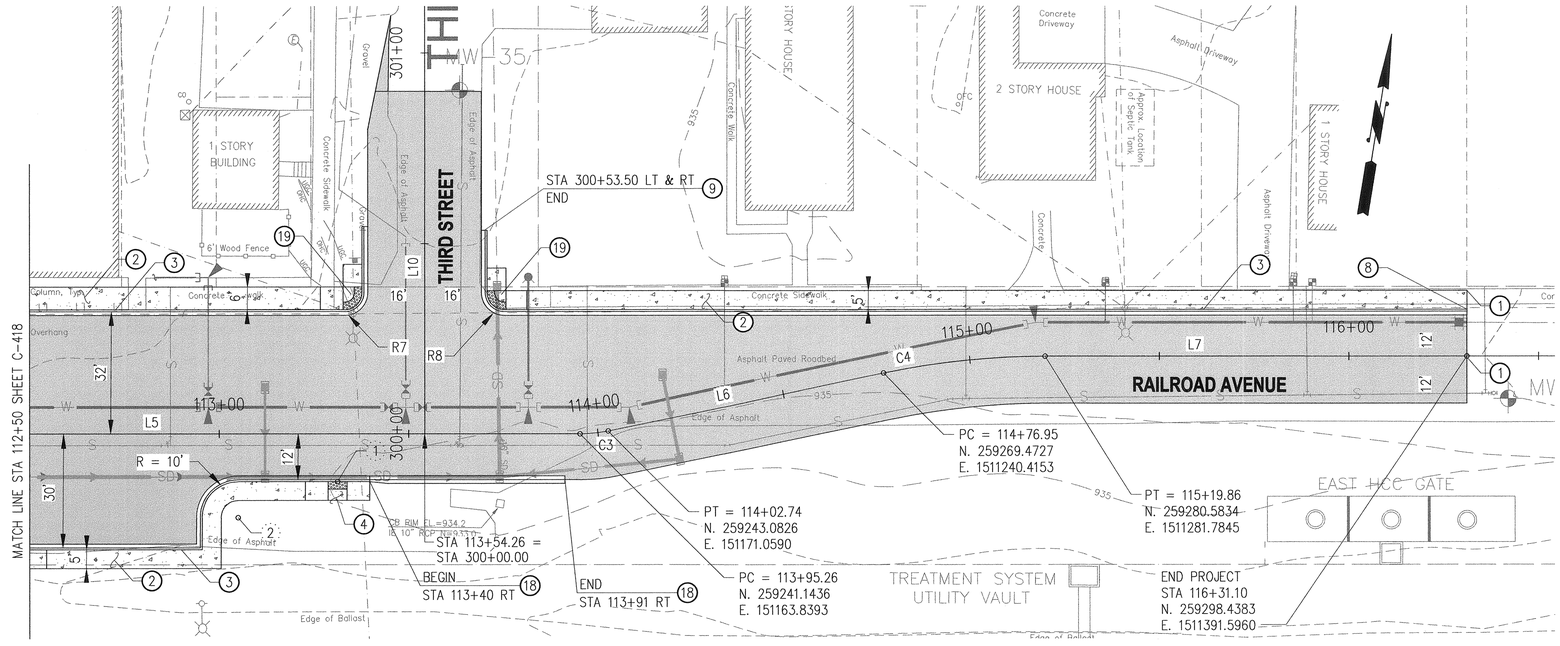

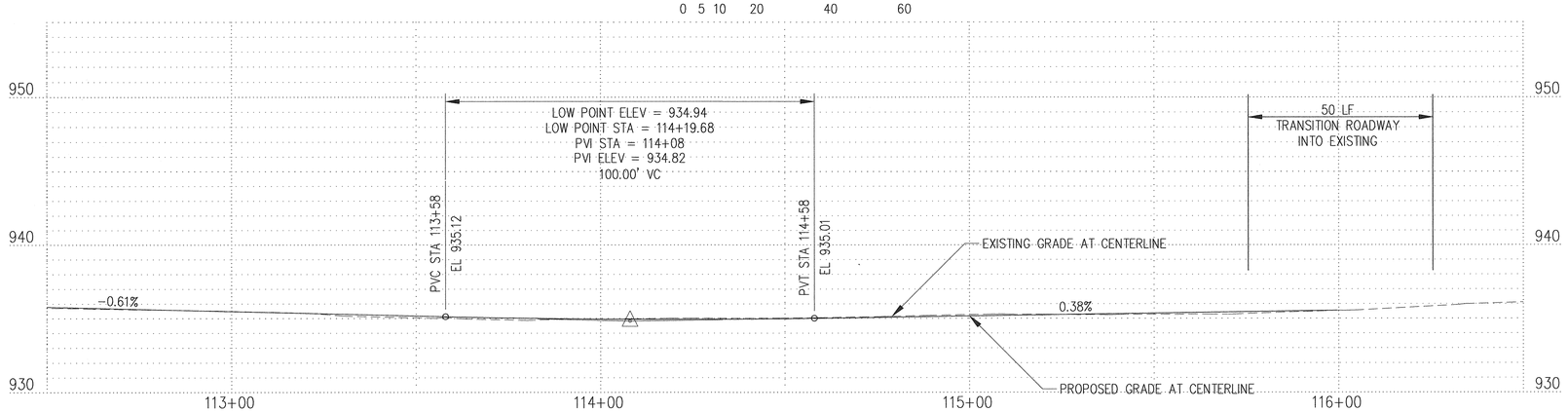

CONSTRUCTION NOTES

1. MATCH EXISTING ASPHALT CONCRETE ROADWAY AND/OR CONCRETE SIDEWALK/CURB/PAVEMENT PER THESE PLANS AND TYPICAL SECTIONS. SAWCUT NEAT VERTICAL LINE AND PROVIDE JOINT SEAL PER WSDOT SEC. 9-04.
2. CONSTRUCT SIDEWALK PER TYPICAL SECTION, SHEETS C-400 THROUGH C-405.
3. CONSTRUCT CEMENT CONCRETE VERTICAL CURB & GUTTER PER TYPICAL SECTION, SHEET C-406.
4. CONSTRUCT KING COUNTY TYPE 2A CURB RAMP PER DETAIL, SHEET C-407.
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6. PROTECT EXISTING CONCRETE CURB.
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18. INSTALL MOUNTABLE CURB AND GUTTER PER DETAIL SHEET C-407.
19. INSTALL CURB RAMP PER DETAIL SHEET C-407.
20. CONSTRUCT CONCRETE TENNIS COURT PER DETAIL SHEET C-410A.

GENERAL DRAINAGE NOTES

1. ALL STORM SEWER MATERIALS SHALL CONFORM TO KING COUNTY AND WSDOT/APWA STANDARD SPECIFICATIONS.
2. STORM SEWER CONVEYANCE PIPES ARE LOCATED NEAR ROADWAY SURFACES, WITH LESS THAN 2 LF COVER. CONTRACTOR SHALL PROTECT STORM SEWER SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES SUCH AS ROADWAY COMPACTION.
3. PIPE CONNECTIONS TO CATCH BASINS MAY REQUIRE BASIN MODIFICATION DUE TO SHALLOW PIPE DEPTHS. IT IS ASSUMED THAT A CATCH BASIN CASING WITH 4-INCH DEPTH AND A 2-INCH RISER CAN BE ACCOMMODATED.

THIRD STREET CL ALIGNMENT DATA

L10 DATA
STA 300+00 TO STA 303+50.82
S 09°14'09" E 350.82'

POINTS TABLE				
	POINT	STATION	OFFSET	ELEVATION
1	℄ RAMP	113+31.26	12.50' RT	–
2	RADIUS	113+05.00	22.00' RT	–

RAILROAD AVENUE CL ALIGNMENT DATA

L5 DATA
STA 108+19.23 TO STA 113+95.26
N 80°45'51" E 576.02'

C3 CURVE DATA
PC STA 113+95.26 L = 7.49'
PT STA 114+02.74 R = 37'
Δ = 11°35'46" T = 3.76'

L6 DATA
STA 113+95.26 TO STA 114+76.95
N 69°10'06" E 74.21'

C4 CURVE DATA
PC STA 114+76.95 L = 42.91'
PT STA 115+19.86 R = 212'
Δ = 11°35'48" T = 21.53'

L7 DATA
STA 115+19.86 TO STA 118+04.12
N 80°45'53" E 284.26'

R7 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 113+33.26	TOP OF CURB
32.00' LT	ELEVATIONS:
Δ = 90-00-00	BEGIN 935.83'
R = 5.00'	¼Δ 935.81'
L = 7.85'	½Δ 935.79'
T = 5.00'	¾Δ 935.77'
PT – 300+37.00	END 935.75'
16.00' LT	

R8 CURVE DATA	
HORIZONTAL	VERTICAL
PC – 300+37.00	TOP OF CURB
16.00' LT	ELEVATIONS:
Δ = 90-00-00	BEGIN 935.75'
R = 5.00'	¼Δ 935.74'
L = 7.85'	½Δ 935.72'
T = 5.00'	¾Δ 935.71'
PT – 113+75.26	END 935.69'
32.00' LT	

* TOP OF CURB ELEVATIONS NOT ADJUSTED FOR CURB CUTS OR ADA RAMPS.

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

ROADWAY & STORM SEWER
PLAN & PROFILE
STA 112+50 TO STA 116+50

NWDZ REMEDIATION

DRAWING NUMBER:
C-419
SHEET NUMBER:
REVISION 0

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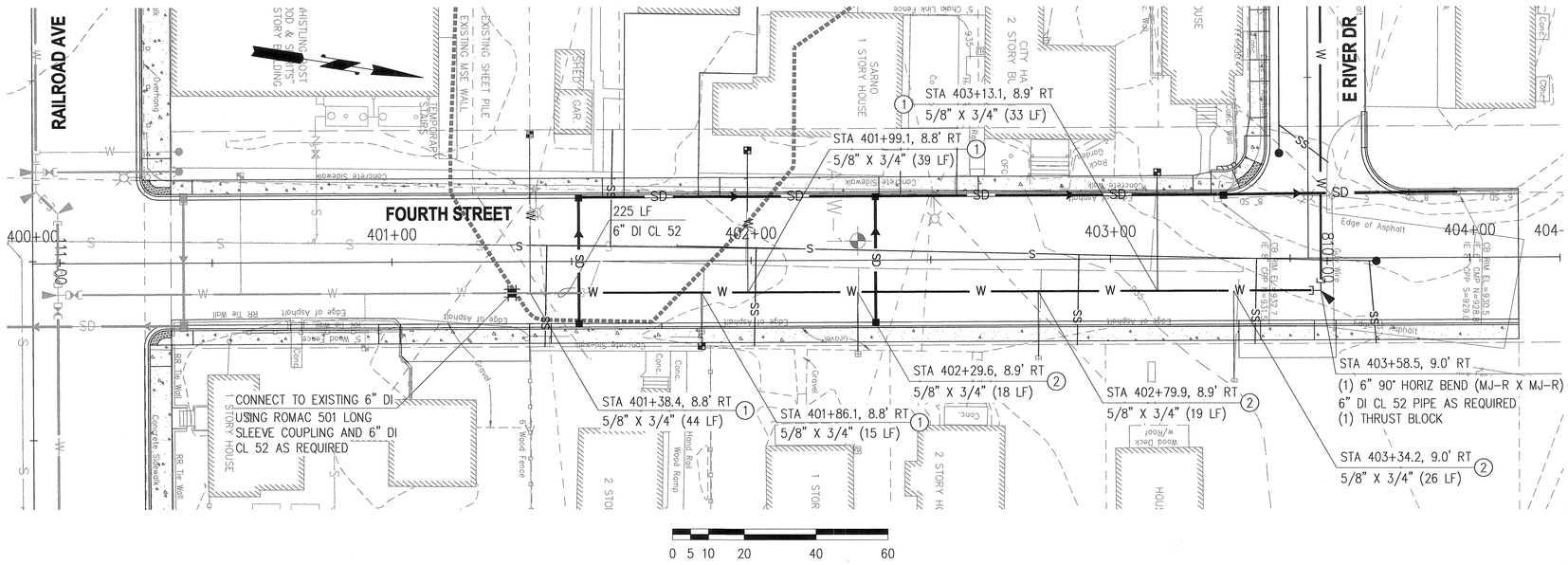


WATER UTILITY NOTES

1. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409.
2. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409. TIE INTO EXISTING WATER METER SETTER.
3. INSTALL 1" AIR & VACUUM RELEASE VALVE ASSEMBLY PER DETAIL, SHEET C-409.

GENERAL NOTES

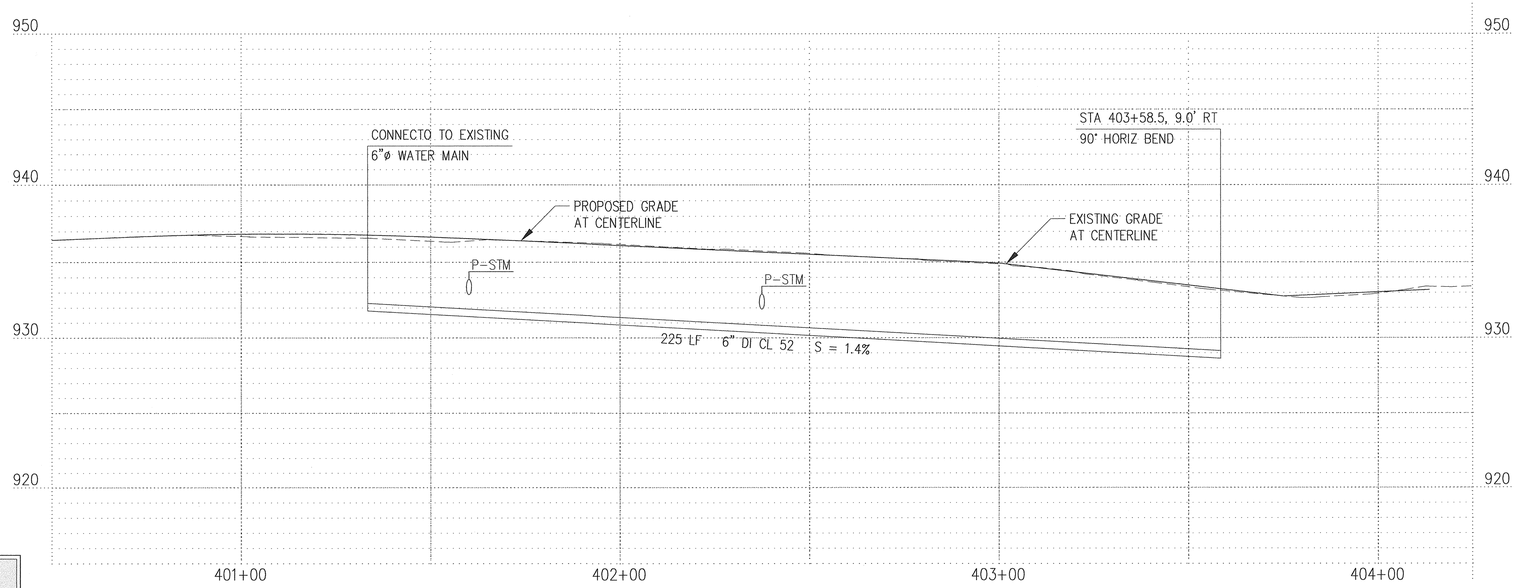
1. WATER SYSTEM VALVES AND MAINS SHALL CONFORM TO KING COUNTY UTILITY STANDARDS, WSDOT STANDARDS, AND AWWA STANDARDS.
2. WATER MAIN, INCLUDING FIRE HYDRANT ASSEMBLIES, SHALL HAVE THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS AND CONNECTIONS.
3. ALL EXISTING AND PROPOSED WATER UTILITY CONDITIONS INCLUDING BURY DEPTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY INFORMATION PRIOR TO CONSTRUCTION OF ANY CONNECTIONS BETWEEN EXISTING AND PROPOSED IMPROVEMENTS AS IDENTIFIED IN THE PLANS. EXISTING WATER LINES HAVE APPROX. 3.5'-4.0' OF COVER.
4. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
5. ALL MECHANICAL JOINTS SHALL BE RIGIDLY RESTRAINED.
6. CONTRACTOR SHALL SUBMIT FIRE HYDRANT AND VALVE SHOP DRAWINGS TO TOWN OF SKYKOMISH FOR APPROVAL.
7. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
8. WATER MAIN VERTICAL BENDS AT PIPE JOINTS SHALL NOT EXCEED 2.5° DEFLECTION.
9. WATER MAINS SHALL HAVE 3' COVER MINIMUM FROM FINISHED GRADE.

SANITARY SEWER GENERAL NOTES

1. FOR SANITARY SEWER DESIGN, SEE GRAY AND OSBORNE, INC. PLAN SHEETS.
2. SANITARY SEWER UTILITIES SHOWN ON THIS SHEET INCLUDING UTILITY CROSSINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MUST BE VERIFIED BY CONTRACTOR.

LEGEND

- W — PROPOSED WATER UTILITY
- S — PROPOSED SANITARY SEWER
- SD — PROPOSED STORM SEWER
- THRUST BLOCK
- WATER METER
- P-STM PROPOSED STORM SEWER



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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

UTILITY PLAN
FOURTH STREET

NWDZ REMEDIATION

DRAWING NUMBER:
C-420

SHEET NUMBER:

REVISION 0

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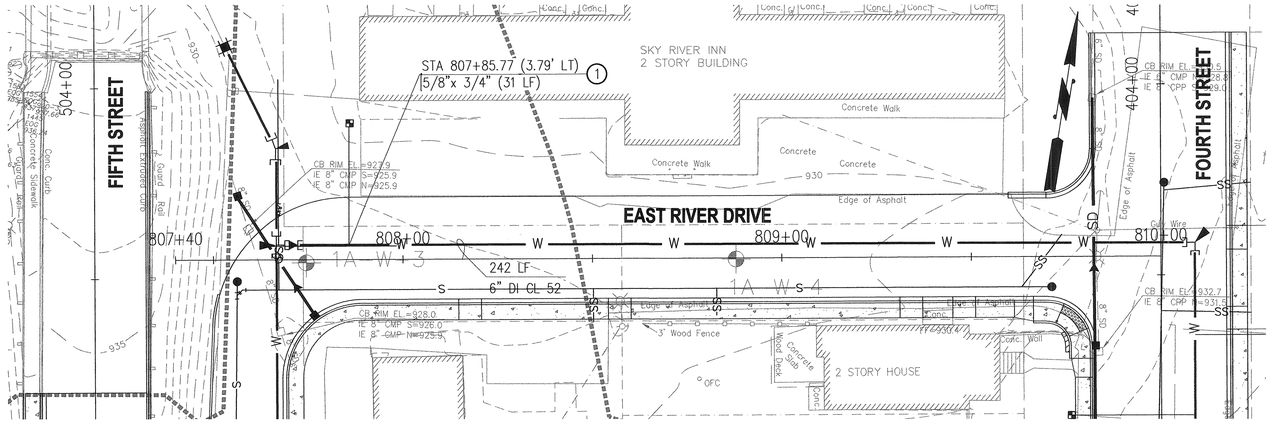
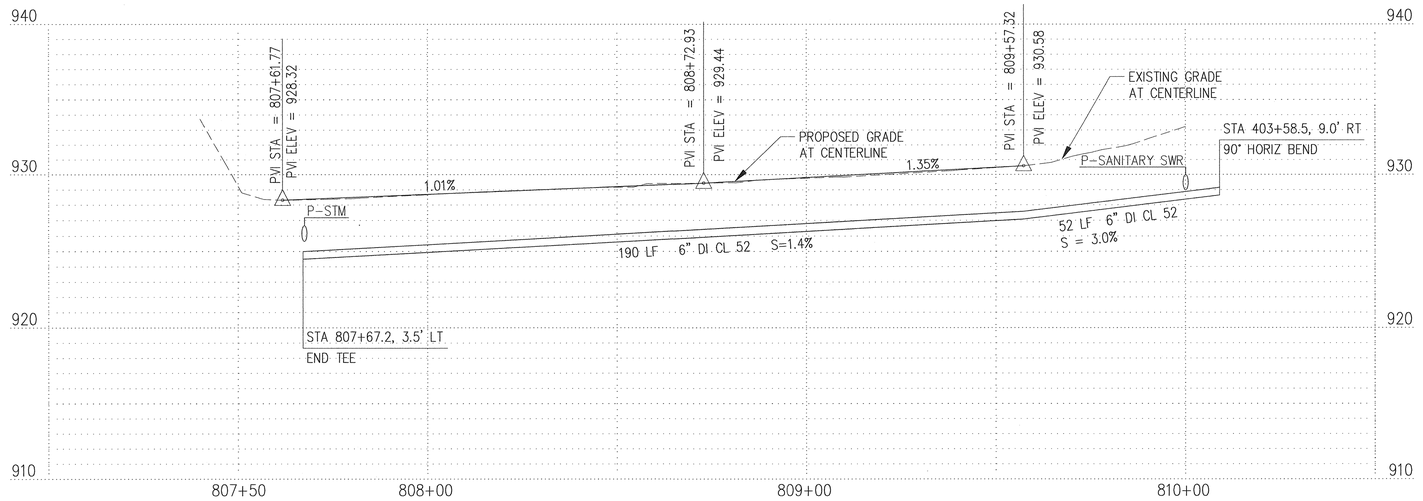


SEE SHEET C-422 FOR UTILITY PLAN ON FIFTH STREET

0 5 10 20 40 60

SEE SHEET C4-420 FOR UTILITY PLAN ON FOURTH STREET



WATER UTILITY NOTES

1. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409.
2. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409. TIE INTO EXISTING WATER METER SETTER.
3. INSTALL 1" AIR & VACUUM RELEASE VALVE ASSEMBLY PER DETAIL, SHEET C-409.

GENERAL NOTES

1. WATER SYSTEM VALVES AND MAINS SHALL CONFORM TO KING COUNTY UTILITY STANDARDS, WSDOT STANDARDS, AND AWWA STANDARDS.
2. WATER MAIN, INCLUDING FIRE HYDRANT ASSEMBLIES, SHALL HAVE THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS AND CONNECTIONS.
3. ALL EXISTING AND PROPOSED WATER UTILITY CONDITIONS INCLUDING BURY DEPTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY INFORMATION PRIOR TO CONSTRUCTION OF ANY CONNECTIONS BETWEEN EXISTING AND PROPOSED IMPROVEMENTS AS IDENTIFIED IN THE PLANS. EXISTING WATER LINES HAVE APPROX. 3.5'–4.0' OF COVER.
4. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
5. ALL MECHANICAL JOINTS SHALL BE RIGIDLY RESTRAINED.
6. CONTRACTOR SHALL SUBMIT FIRE HYDRANT AND VALVE SHOP DRAWINGS TO TOWN OF SKYKOMISH FOR APPROVAL.
7. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
8. WATER MAIN VERTICAL BENDS AT PIPE JOINTS SHALL NOT EXCEED 2.5° DEFLECTION.
9. WATER MAINS SHALL HAVE 3' COVER MINIMUM FROM FINISHED GRADE.

SANITARY SEWER GENERAL NOTES

1. FOR SANITARY SEWER DESIGN, SEE GRAY AND OSBORNE, INC. PLAN SHEETS.
2. SANITARY SEWER UTILITIES SHOWN ON THIS SHEET INCLUDING UTILITY CROSSINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MUST BE VERIFIED BY CONTRACTOR.

LEGEND

W	PROPOSED WATER UTILITY
S	PROPOSED SANITARY SEWER
SD	PROPOSED STORM SEWER
►	THRUST BLOCK
■	WATER METER
P-STM	PROPOSED STORM SEWER

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

UTILITY PLAN
EAST RIVER DRIVE

NWDZ REMEDIATION

DRAWING NUMBER:
C-421

SHEET NUMBER:

REVISION | 0

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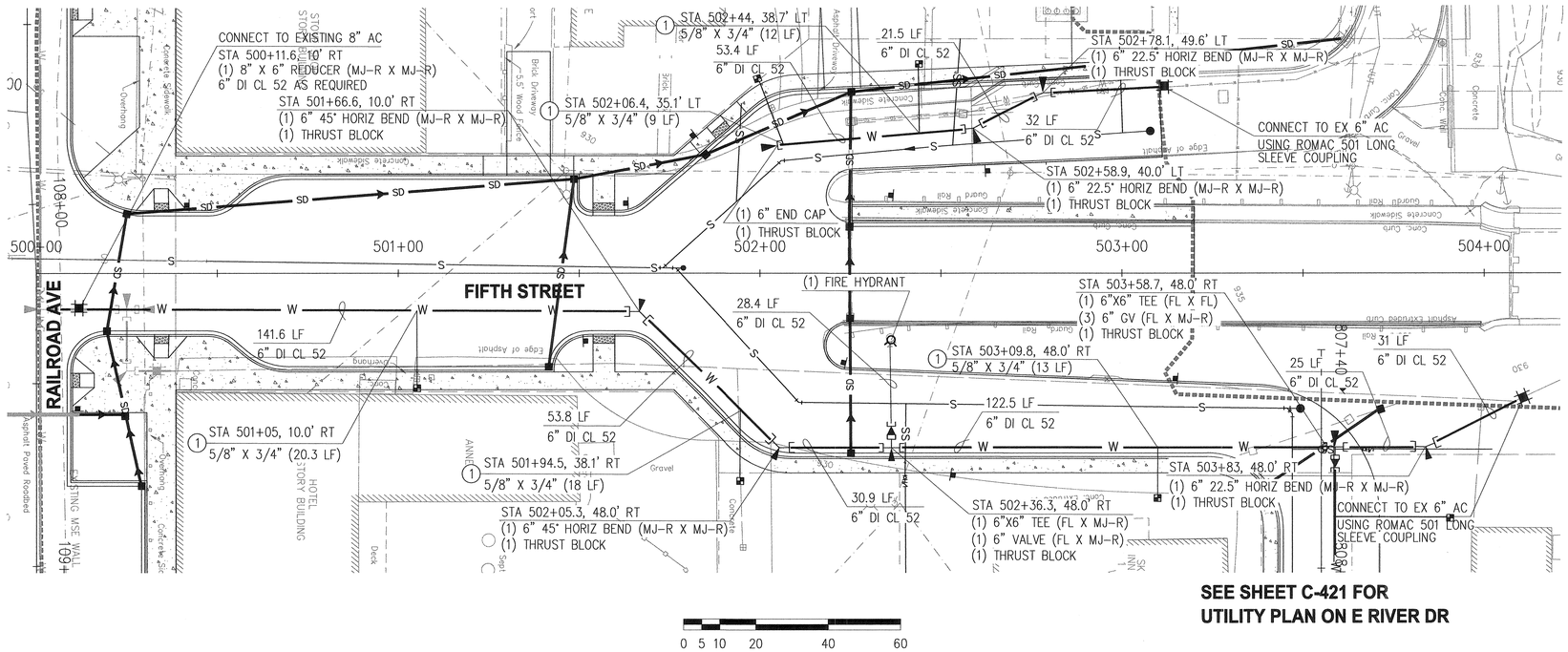
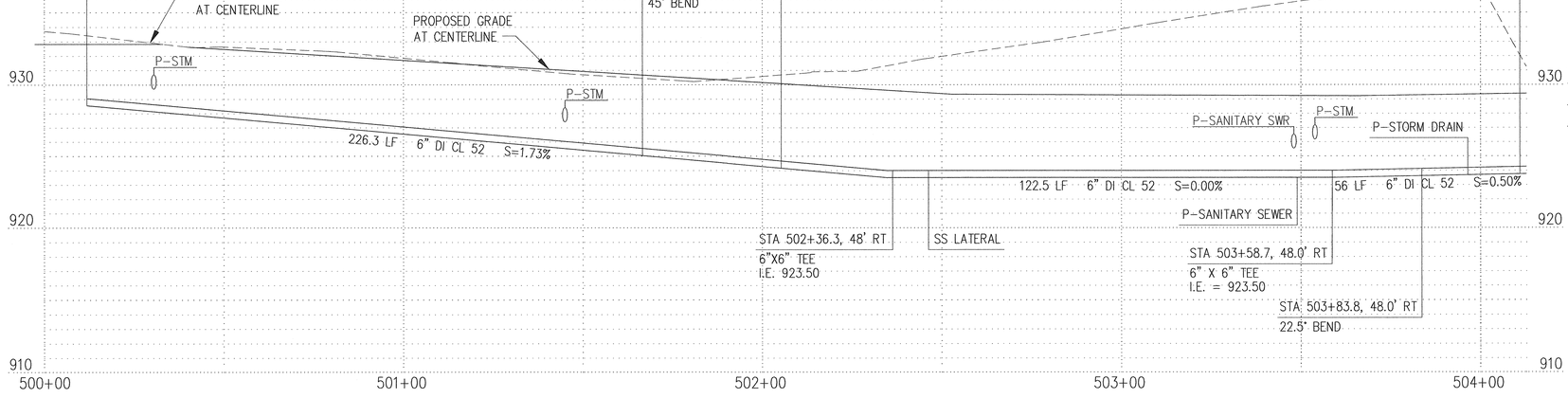


SEE SHEET C-421 FOR UTILITY PLAN ON E RIVER DR



WATER UTILITY NOTES

1. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409.
2. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409. TIE INTO EXISTING WATER METER SETTER.
3. INSTALL 1" AIR & VACUUM RELEASE VALVE ASSEMBLY PER DETAIL, SHEET C-409.

GENERAL NOTES

1. WATER SYSTEM VALVES AND MAINS SHALL CONFORM TO KING COUNTY UTILITY STANDARDS, WSDOT STANDARDS, AND AWWA STANDARDS.
2. WATER MAIN, INCLUDING FIRE HYDRANT ASSEMBLIES, SHALL HAVE THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS AND CONNECTIONS.
3. ALL EXISTING AND PROPOSED WATER UTILITY CONDITIONS INCLUDING BURY DEPTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY INFORMATION PRIOR TO CONSTRUCTION OF ANY CONNECTIONS BETWEEN EXISTING AND PROPOSED IMPROVEMENTS AS IDENTIFIED IN THE PLANS. EXISTING WATER LINES HAVE APPROX. 3.5'-4.0' OF COVER.
4. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
5. ALL MECHANICAL JOINTS SHALL BE RIGIDLY RESTRAINED.
6. CONTRACTOR SHALL SUBMIT FIRE HYDRANT AND VALVE SHOP DRAWINGS TO TOWN OF SKYKOMISH FOR APPROVAL.
7. AIR & VACUUM RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
8. WATER MAIN VERTICAL BENDS AT PIPE JOINTS SHALL NOT EXCEED 2.5° DEFLECTION.
9. WATER MAINS SHALL HAVE 3' COVER MINIMUM FROM FINISHED GRADE.

SANITARY SEWER GENERAL NOTES

1. FOR SANITARY SEWER DESIGN, SEE GRAY AND OSBORNE, INC. PLAN SHEETS.
2. SANITARY SEWER UTILITIES SHOWN ON THIS SHEET INCLUDING UTILITY CROSSINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MUST BE VERIFIED BY CONTRACTOR.

LEGEND

W	PROPOSED WATER UTILITY
S	PROPOSED SANITARY SEWER
SD	PROPOSED STORM SEWER
	THRUST BLOCK
	WATER METER
P-STM	PROPOSED STORM SEWER

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390

DATE: 05/15/09

UTILITY PLAN
FIFTH STREET

NWDZ REMEDIATION

DRAWING NUMBER:
C-422

SHEET NUMBER:

REVISION 0

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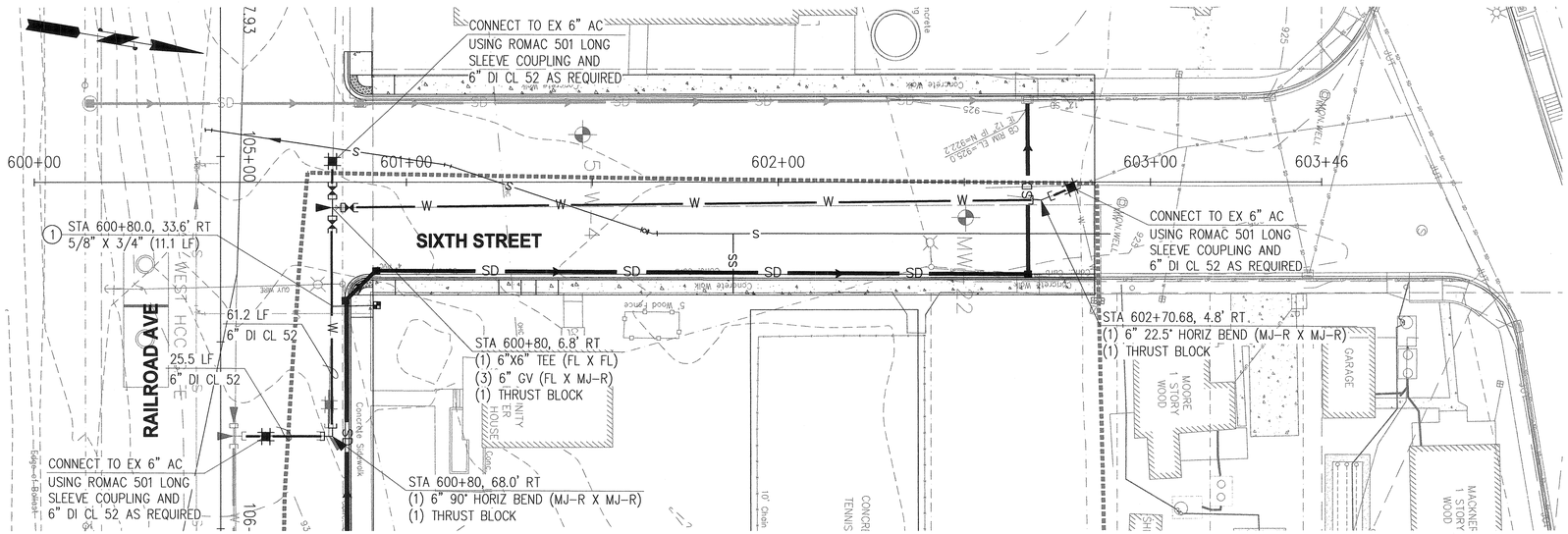

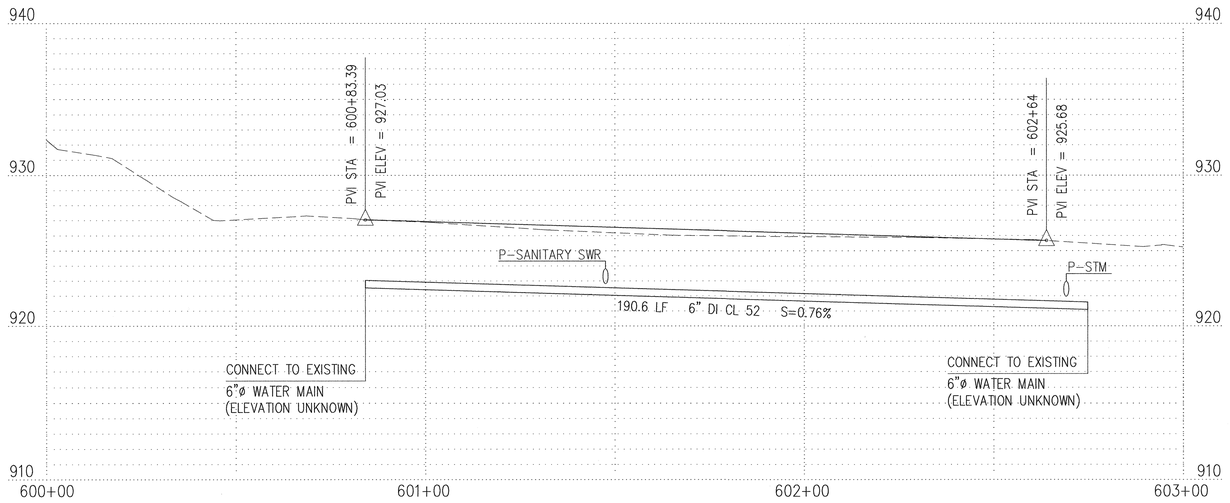

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BEFORE YOU DIG
1-800-424-5555

WATER UTILITY NOTES

1. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409.
2. WATER SERVICE CONNECTIONS PER DETAILS, SHEET C-409. TIE INTO EXISTING WATER METER SETTER.
3. INSTALL 1" AIR & VACUUM RELEASE VALVE ASSEMBLY PER DETAIL, SHEET C-409.

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LEGEND

W	PROPOSED WATER UTILITY
S	PROPOSED SANITARY SEWER
SD	PROPOSED STORM SEWER
►	THRUST BLOCK
▪	WATER METER
P-STM	PROPOSED STORM SEWER

ISSUED FOR CONSTRUCTION

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

UTILITY PLAN
SIXTH STREET

NWDZ REMEDIATION

DRAWING NUMBER:
C-423

SHEET NUMBER:

REVISION 0

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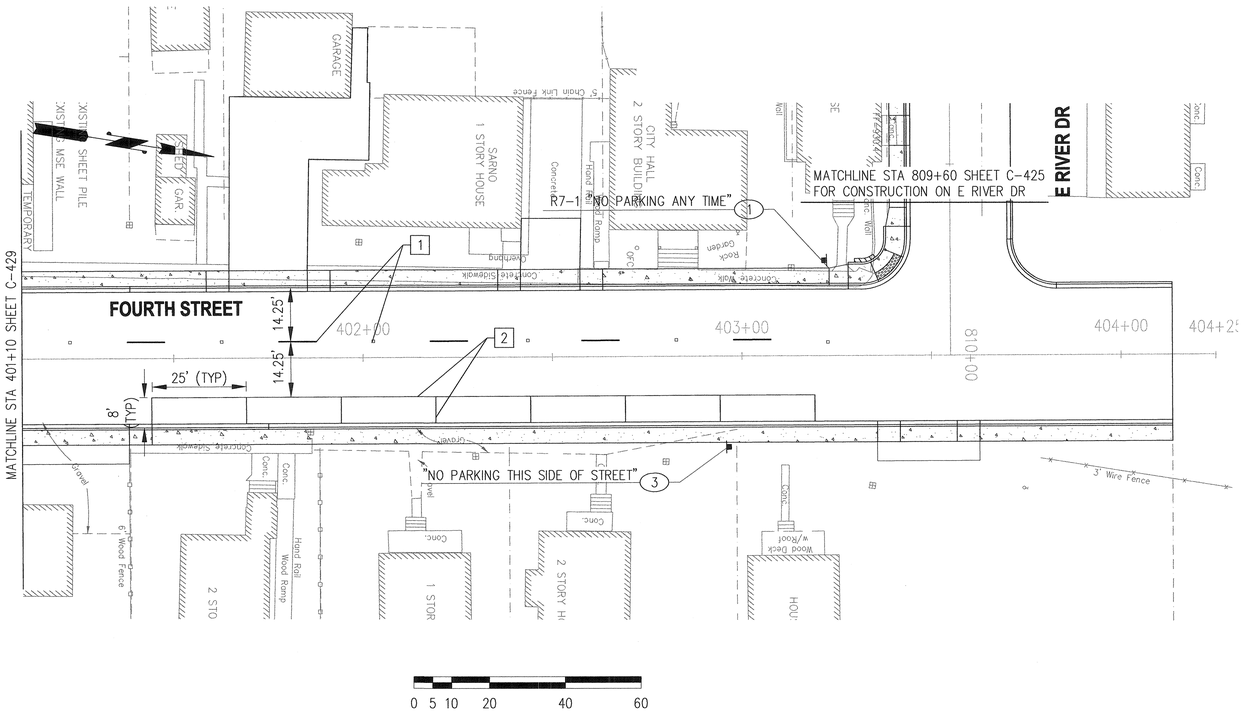

CHANNELIZATION NOTES

1. 4" YELLOW SKIP LINE WITH TYPE 2YY RPM, PER SINGLE LANE TWO WAY TRAFFIC DETAIL KC FIG 4-001.
2. 4" WHITE PAINT LINE.
3. 8" THERMOPLASTIC CROSSWALK STRIPE.
4. 60° PARK STALL ARRANGEMENT PER WSDOT STD PLAN M17.10-01. ONE ACCESSABLE STALL.
5. STD ACCESS PARKING SPACE SYMBOL PER WSDOT STD PLAN M24.60-02.
6. 4" YELLOW PAINT LINE.

SIGN NOTES

(1) NEW SIGN ON NEW 4"X4" POST.
(2) EXISTING SIGN TO REMAIN.
(3) REMOVE SIGN.
(4) RELOCATE EXISTING SIGN ON NEW 4"X4" POST.

GENERAL NOTES

1. ALL PAVEMENT MATERIAL SHALL CONFORM TO THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION AND STATE OF WASHINGTON STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE STATED.
2. RELOCATED SIGNS TO HAVE NEW POSTS INSTALLED PER KING COUNTY STANDARDS.

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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CHANNELIZATION PLAN
FOURTH STREET

NWDZ REMEDIATION

DRAWING NUMBER:
C-424
SHEET NUMBER:
REVISION 0

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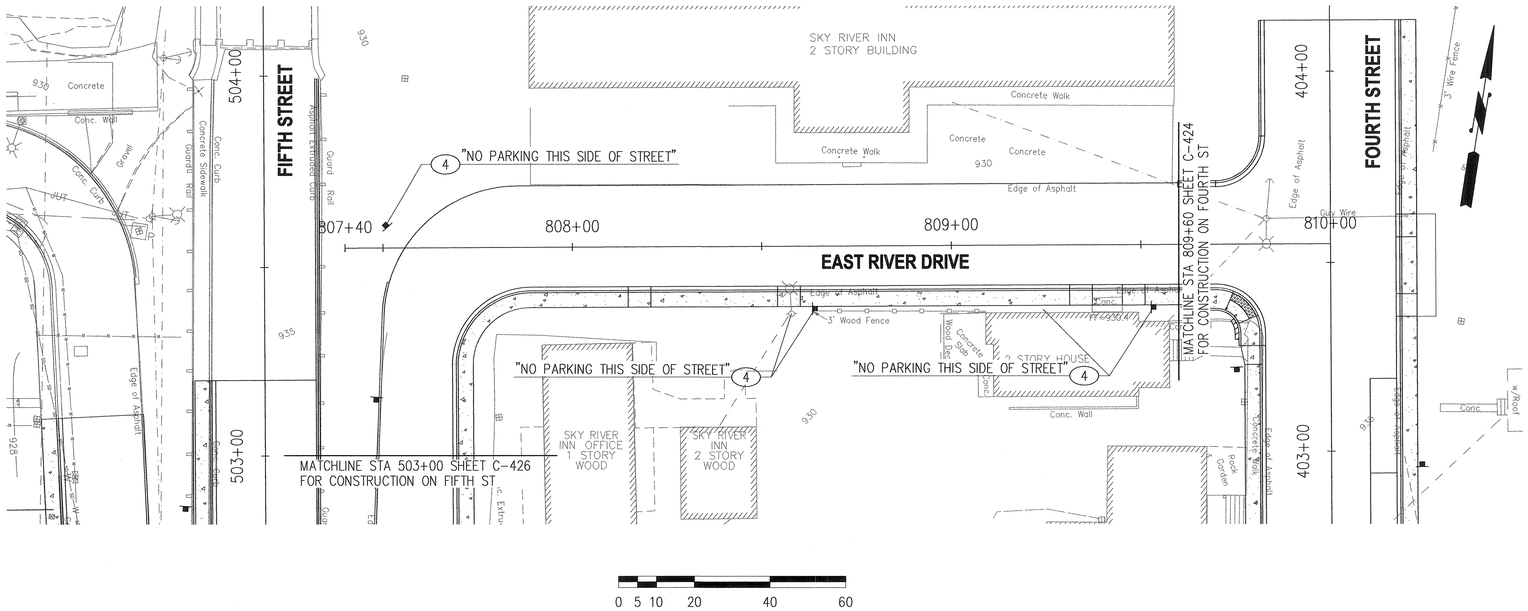

CHANNELIZATION NOTES

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2. 4" WHITE PAINT LINE.
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SIGN NOTES

1. NEW SIGN ON NEW 4"X4" POST.
2. EXISTING SIGN TO REMAIN.
3. REMOVE SIGN.
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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

CHANNELIZATION PLAN
EAST RIVER DRIVE

NWDZ REMEDIATION

DRAWING NUMBER:
C-425

SHEET NUMBER:

REVISION D

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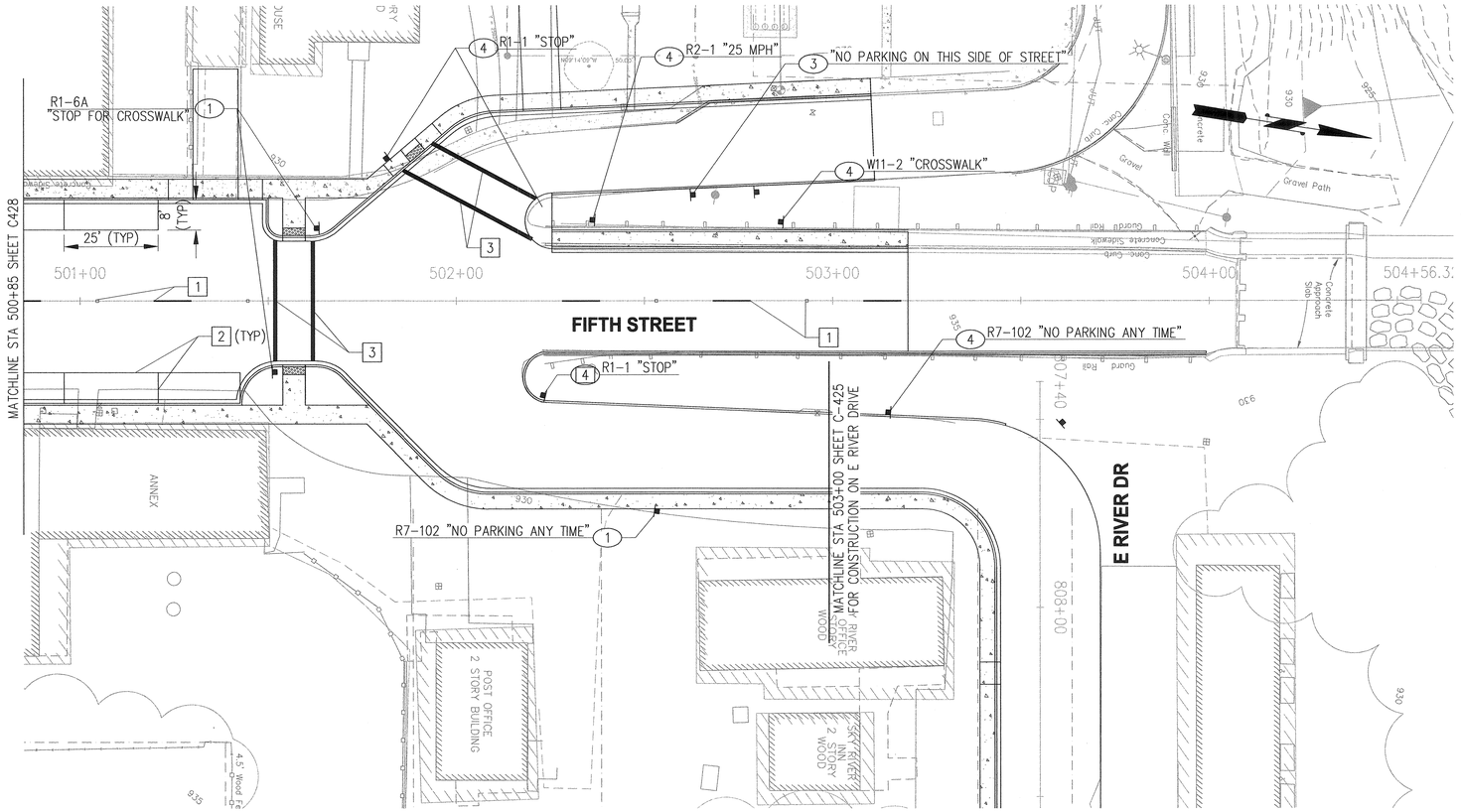

CHANNELIZATION NOTES

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2. 4" WHITE PAINT LINE.
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6. 4" YELLOW PAINT LINE.

SIGN NOTES

1. NEW SIGN ON NEW 4"X4" POST.
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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CHANNELIZATION PLAN
FIFTH STREET

NWDZ REMEDIATION

DRAWING NUMBER: C-426

SHEET NUMBER:

REVISION 0

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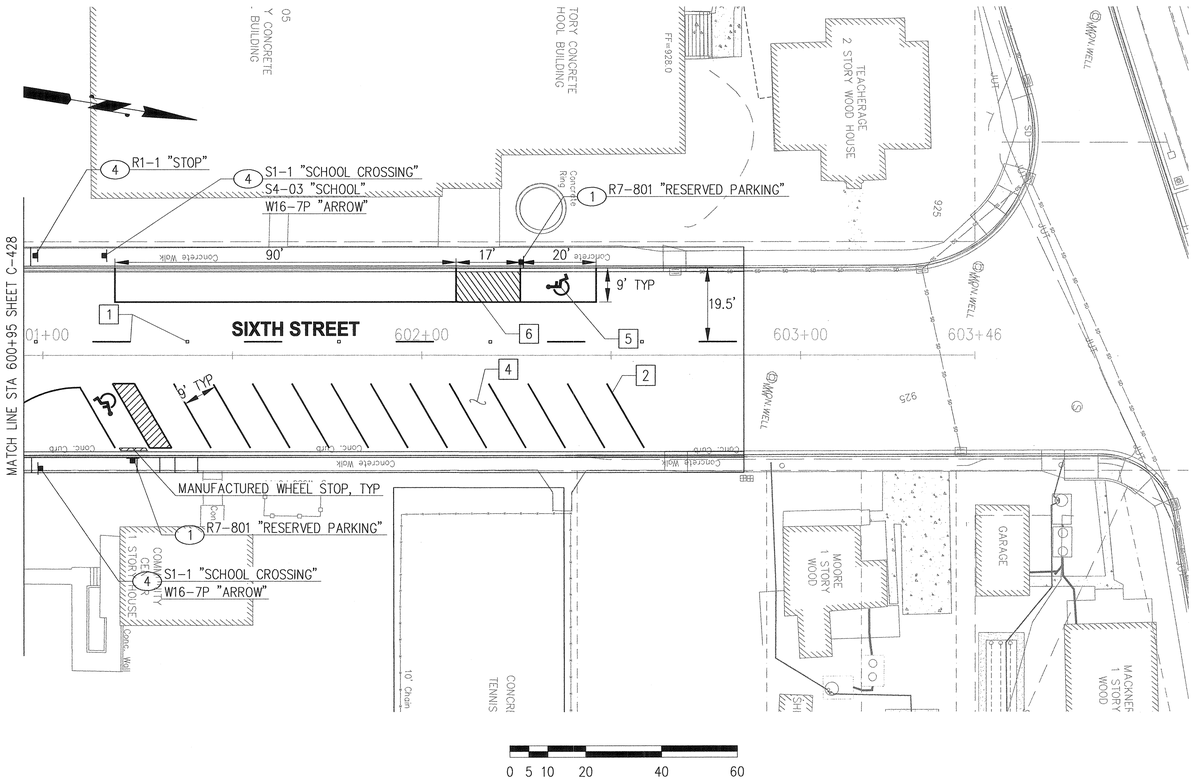

CHANNELIZATION NOTES

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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

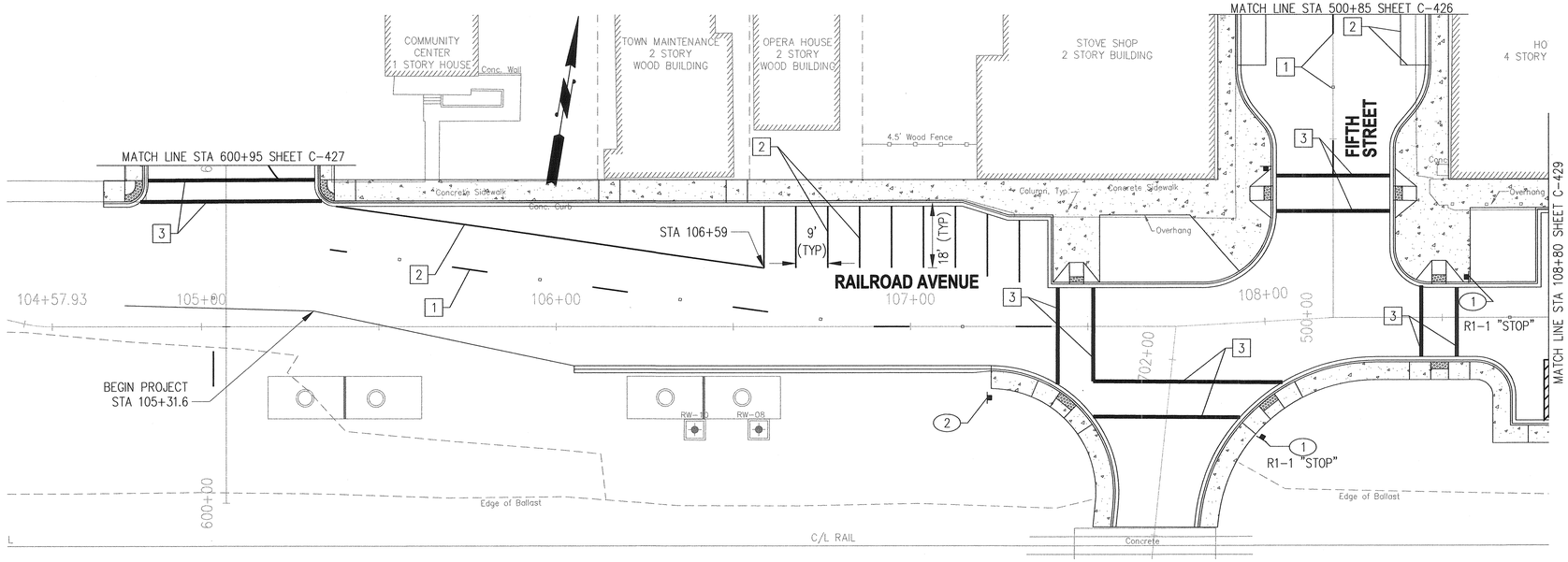
CHANNELIZATION PLAN
SIXTH STREET

NWDZ REMEDIATION

DRAWING NUMBER: C-427

SHEET NUMBER:

REVISION 0



0 5 10 20 40 60

CHANNELIZATION NOTES

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NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CHANNELIZATION PLAN
RAILROAD AVENUE
STA 105+00 TO STA 108+80

NWDZ REMEDIATION

DRAWING NUMBER:
C-428
SHEET NUMBER:
REVISION 0

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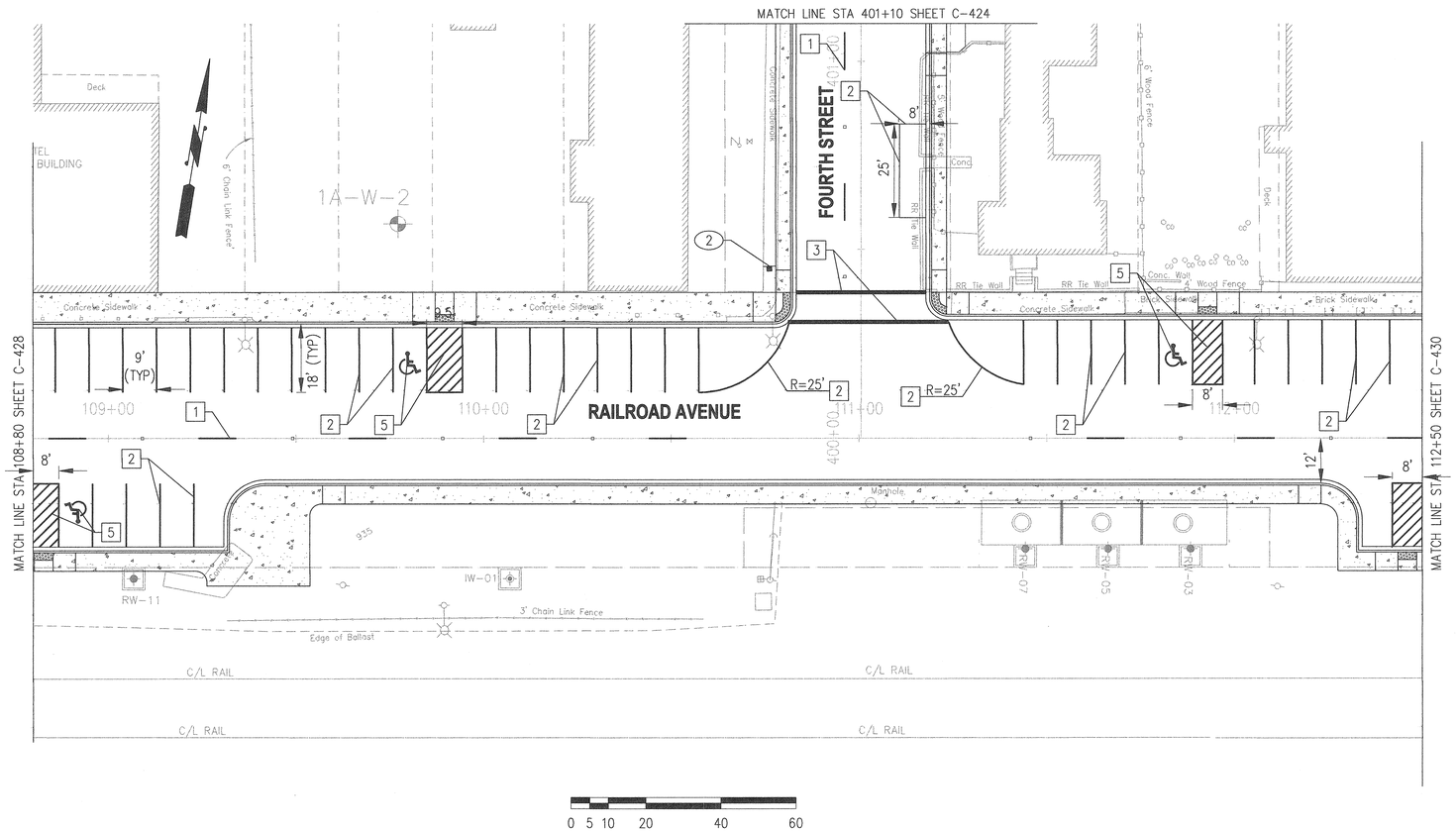

CHANNELIZATION NOTES

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0	Y.D.	05-15-09	ISSUED FOR CONSTRUCTION				

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CHANNELIZATION PLAN
RAILROAD AVENUE
STA 108+80 TO STA 112+50

NWDZ REMEDIATION

DRAWING NUMBER: C-429
SHEET NUMBER:
REVISION 0

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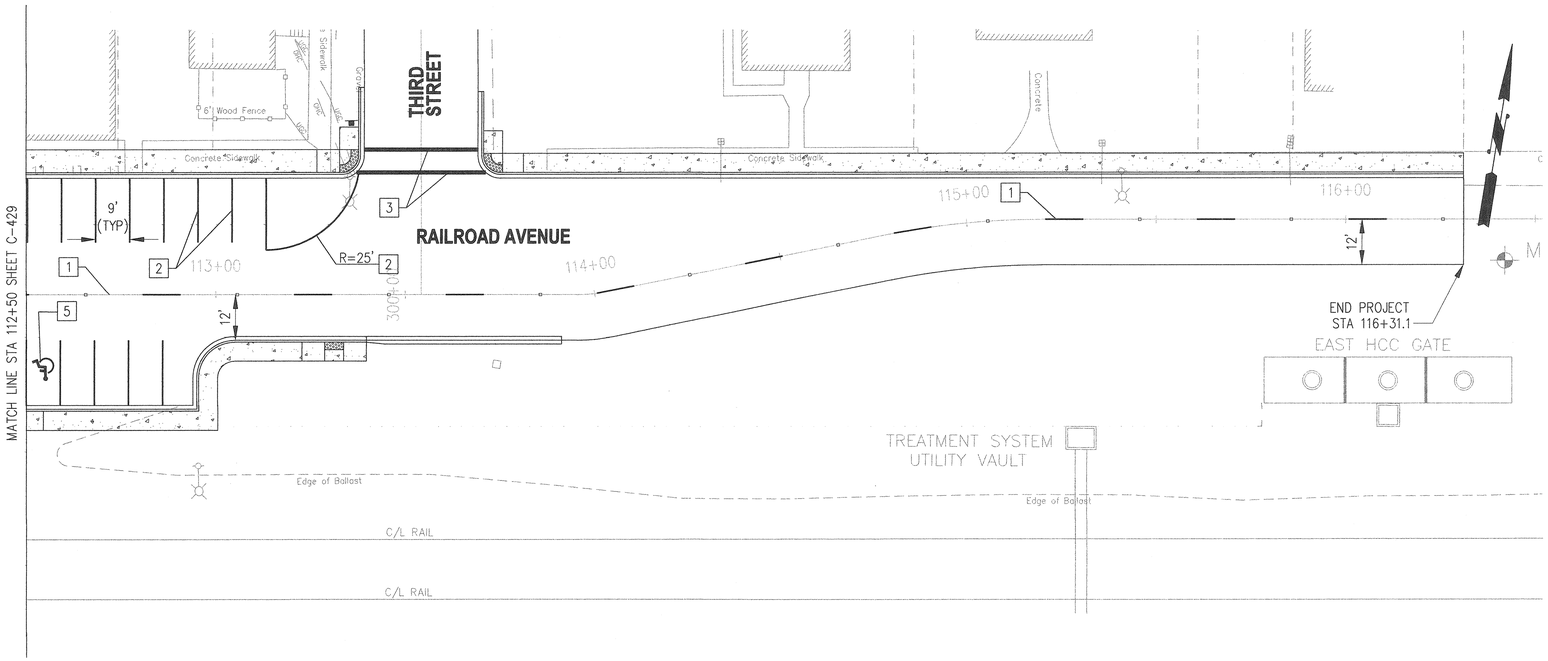

CHANNELIZATION NOTES

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ISSUED FOR CONSTRUCTION

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SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

CHANNELIZATION PLAN
RAILROAD AVENUE
STA 112+50 TO STA 116+50

NWDZ REMEDIATION

DRAWING NUMBER:
C-430

SHEET NUMBER:

REVISION 0

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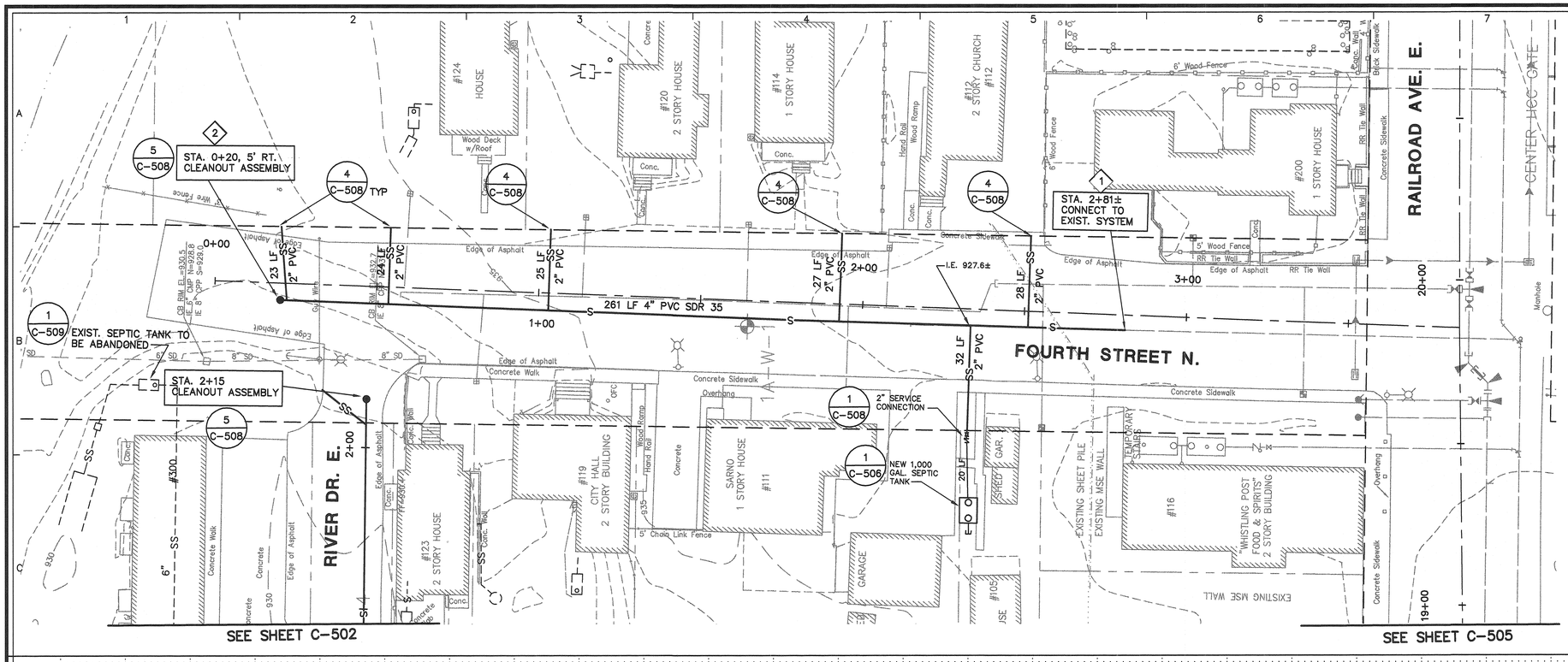

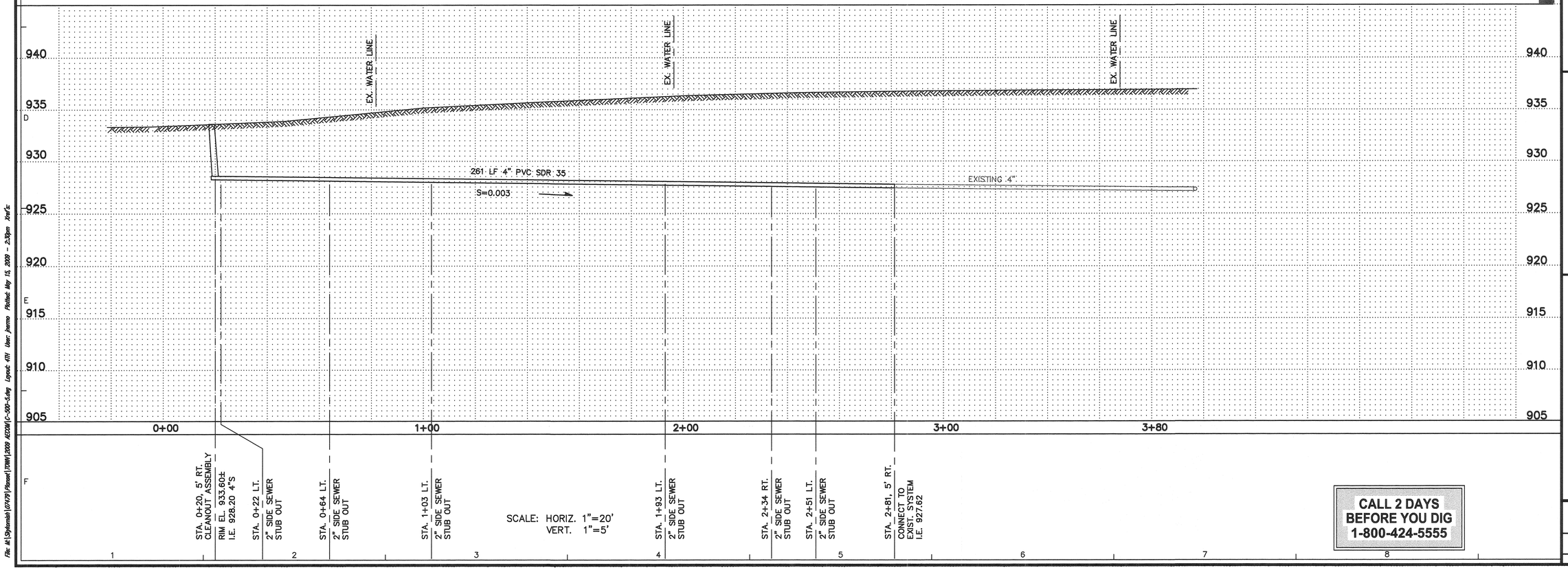

1" = 20':

20' 10' 0 20' 40'

CONSTRUCTION NOTES:

1. UTILITY CROSSING: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS MAY NOT BE SHOWN.
2. MINIMUM SLOPE FOR SIDE SEWER STUB IS 0.01 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF SIDE SEWER WITH PROPERTY OWNER PRIOR TO INSTALLATION.

X DENOTES NUMBER FOR COORDINATES OF THAT ITEM. SEE PIPE FITTING LOCATION TABLE ON SHEET C-509 FOR COORDINATES.

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

Gray & Osborne, Inc. CONSULTING ENGINEERS

HARRY E. SELLERS STATE OF WASHINGTON 27306 REGISTERED PROFESSIONAL ENGINEER 5-18-09

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BURLINGTON NORTHERN FORMER MAINTENANCE AND FUELING FACILITY SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390 DATE: 05/15/09

SANITARY SEWER PLAN & PROFILE FOURTH STREET NORTH

NWDZ REMEDIATION

DRAWING NUMBER: C-500

SHEET NUMBER:

REVISION 0

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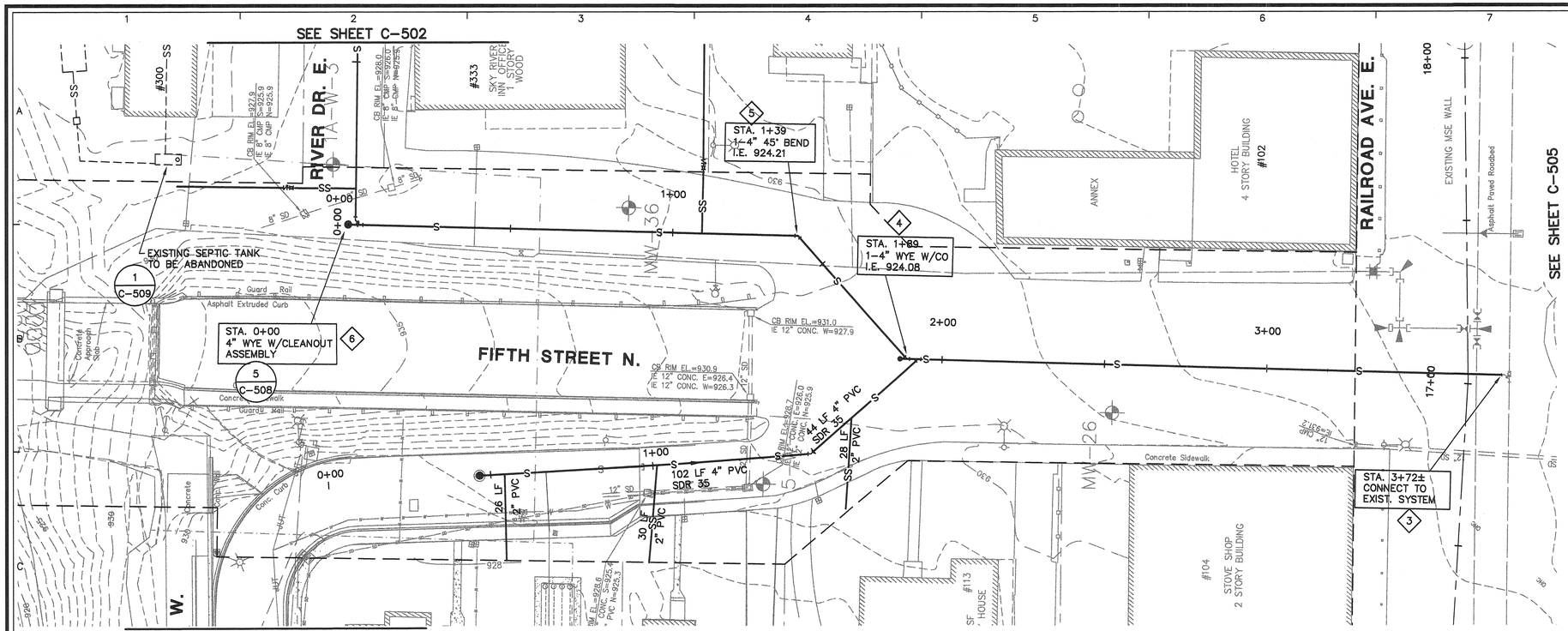
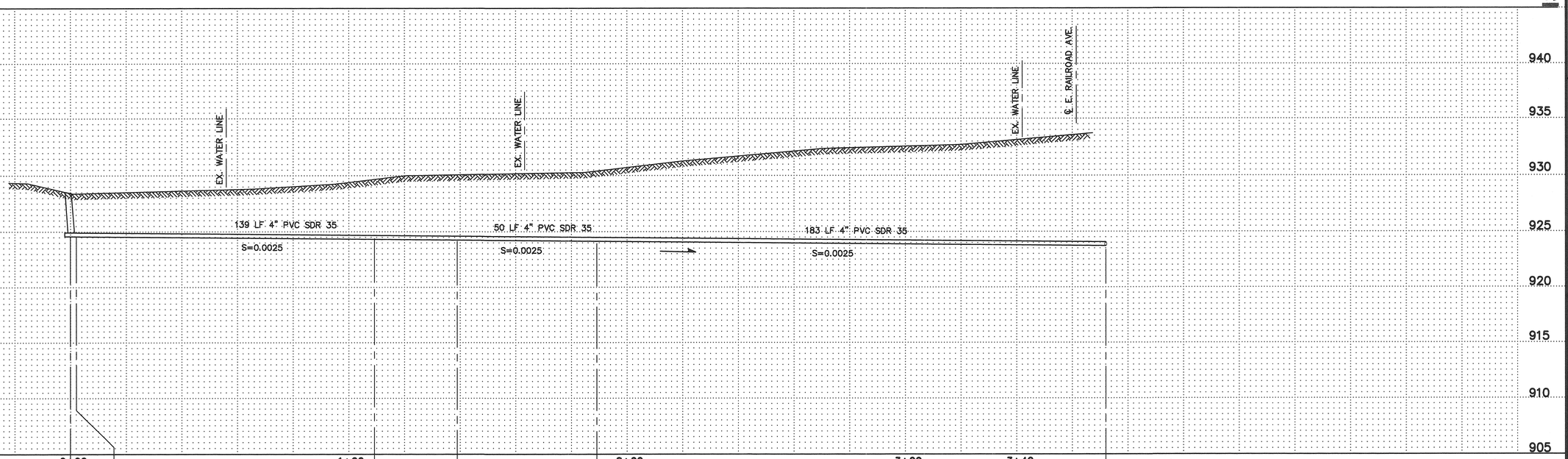


CONSTRUCTION NOTES:

1. UTILITY CROSSING: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS MAY NOT BE SHOWN.
2. MINIMUM SLOPE FOR SIDE SEWER STUB IS 0.01 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF SIDE SEWER WITH PROPERTY OWNER PRIOR TO INSTALLATION.

(X) DENOTES NUMBER FOR COORDINATES OF THAT ITEM. SEE PIPE FITTING LOCATION TABLE ON SHEET C-509 FOR COORDINATES.



SCALE: HORIZ. 1"=20'
VERT. 1"=5'

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

Gray & Osborne, Inc.
CONSULTING ENGINEERS

HARRY E. SELLERS — STATE OF WASHINGTON — 21868 — REGISTERED PROFESSIONAL ENGINEER — 5-18-09

NO	DRWN	DATE	REVISION	CHK'D	DATE	APPV'D	DATE
0		05/15/09	ISSUED FOR CONSTRUCTION				

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BURLINGTON NORTHERN
FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

SANITARY SEWER PLAN & PROFILE
FIFTH ST. NORTH (EAST SIDE)

NWDZ REMEDIATION

DRAWING NUMBER:
C-501

SHEET NUMBER:

REVISION 0

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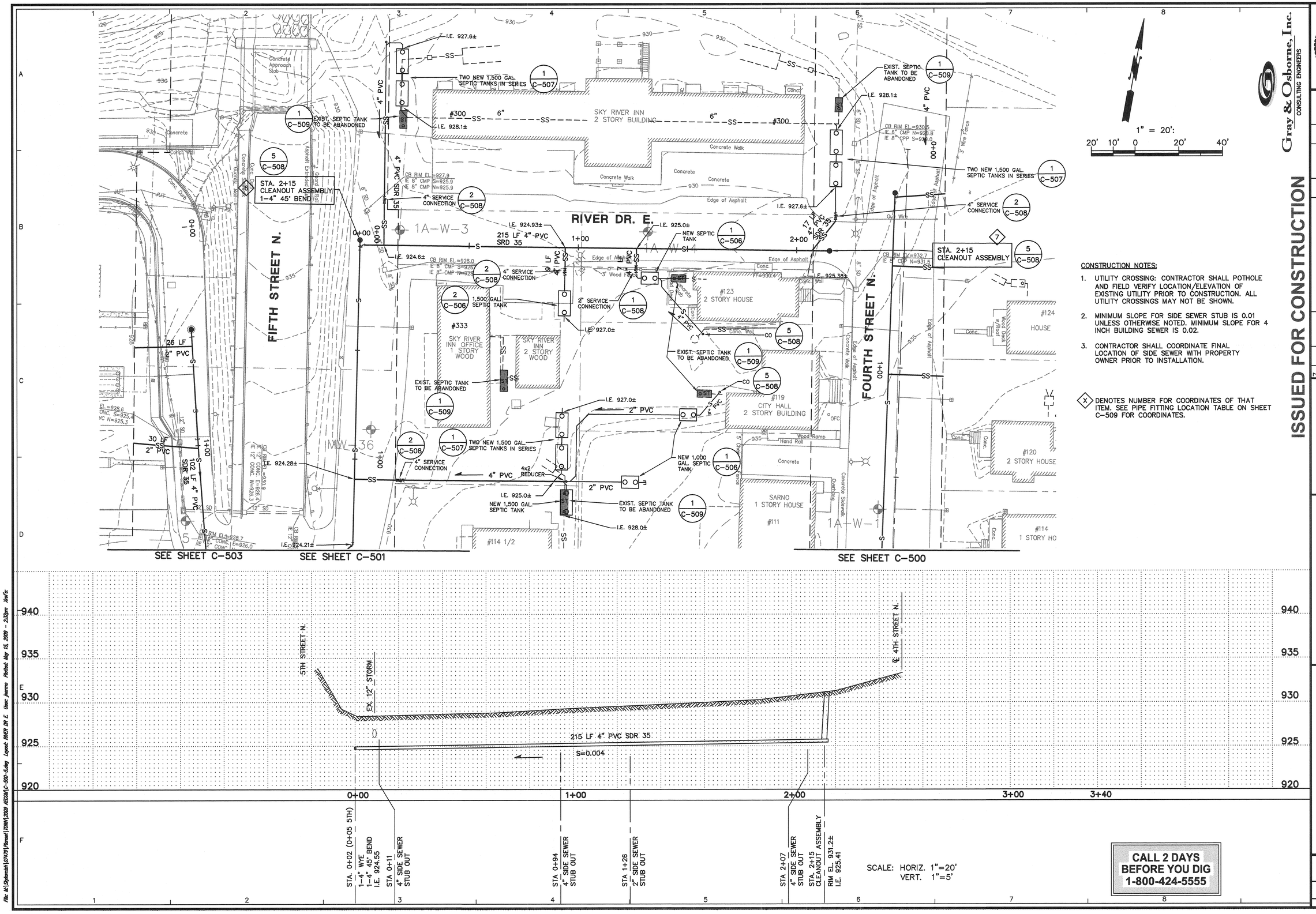

CONSTRUCTION NOTES:

1. UTILITY CROSSING: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS MAY NOT BE SHOWN.
2. MINIMUM SLOPE FOR SIDE SEWER STUB IS 0.01 UNLESS OTHERWISE NOTED. MINIMUM SLOPE FOR 4 INCH BUILDING SEWER IS 0.02.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF SIDE SEWER WITH PROPERTY OWNER PRIOR TO INSTALLATION.

(X) DENOTES NUMBER FOR COORDINATES OF THAT ITEM. SEE PIPE FITTING LOCATION TABLE ON SHEET C-509 FOR COORDINATES.

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Gray & Osborne, Inc.
CONSULTING ENGINEERS

HARRY E. SELLERS
STATE OF WASHINGTON
27906
REGISTERED PROFESSIONAL ENGINEER

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0		05/15/09	ISSUED FOR CONSTRUCTION				
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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

SANITARY SEWER PLAN & PROFILE
RIVER DRIVE EAST

NWDZ REMEDIATION

DRAWING NUMBER: C-502

SHEET NUMBER:

REVISION 0

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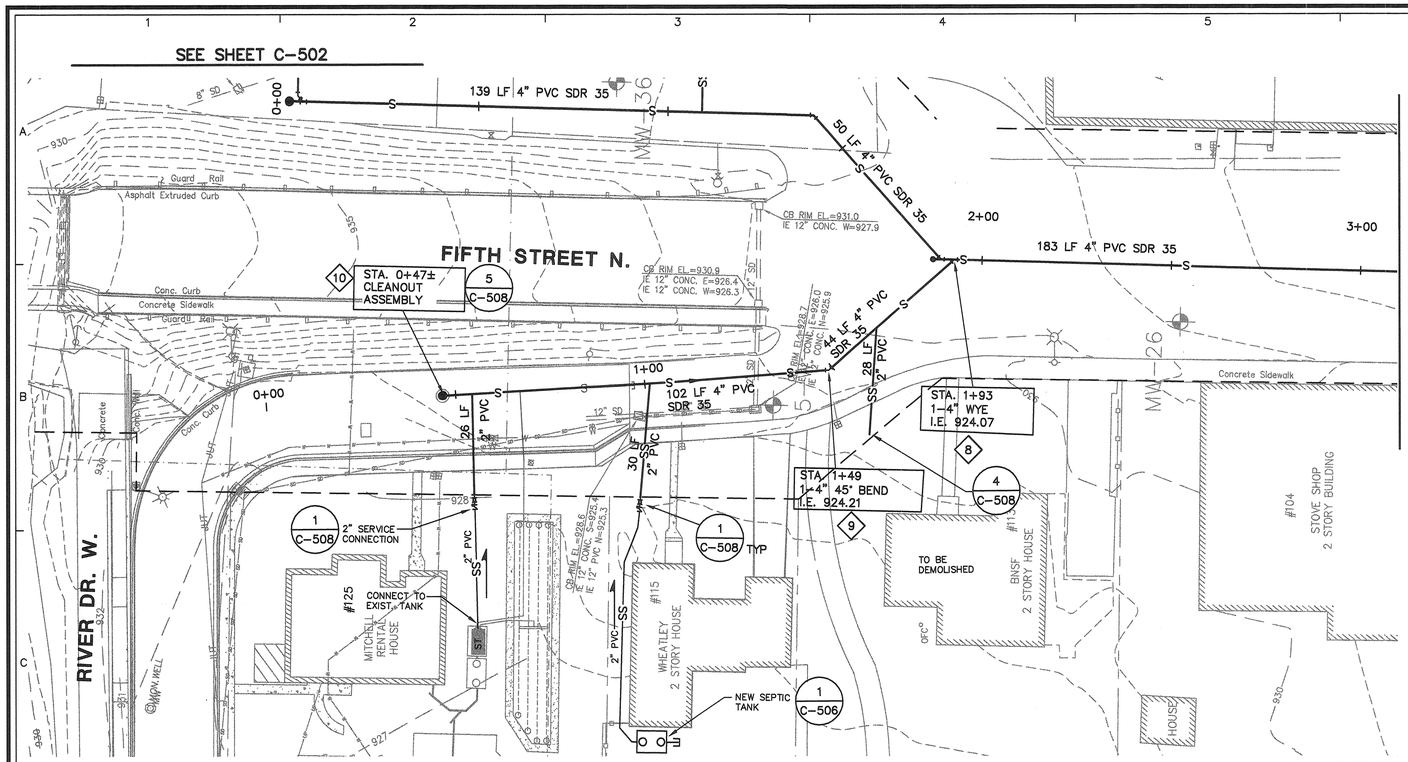



1" = 20':
20' 10' 0 20' 40'

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HARRY E. SELLERS
STATE OF WASHINGTON
27906
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION NOTES:

1. UTILITY CROSSING: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS MAY NOT BE SHOWN.
2. MINIMUM SLOPE FOR SIDE SEWER STUB IS 0.01 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF SIDE SEWER WITH PROPERTY OWNER PRIOR TO INSTALLATION.
4. LOCATION OF EXISTING BUILDING SEWER AND SEPTIC TANK FOR HOUSE #115 IS UNKNOWN. VERIFY LOCATION OF NEW SEPTIC TANK AND BUILDING SEWER WITH THE TOWN'S REPRESENTATIVE PRIOR TO INSTALLATION.

(X) DENOTES NUMBER FOR COORDINATES OF THAT ITEM. SEE PIPE FITTING LOCATION TABLE ON SHEET C-509 FOR COORDINATES.

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

SANITARY SEWER PLAN & PROFILE
FIFTH ST. NORTH (WEST SIDE)

NWDZ REMEDIATION

DRAWING NUMBER:
C-503

SHEET NUMBER:

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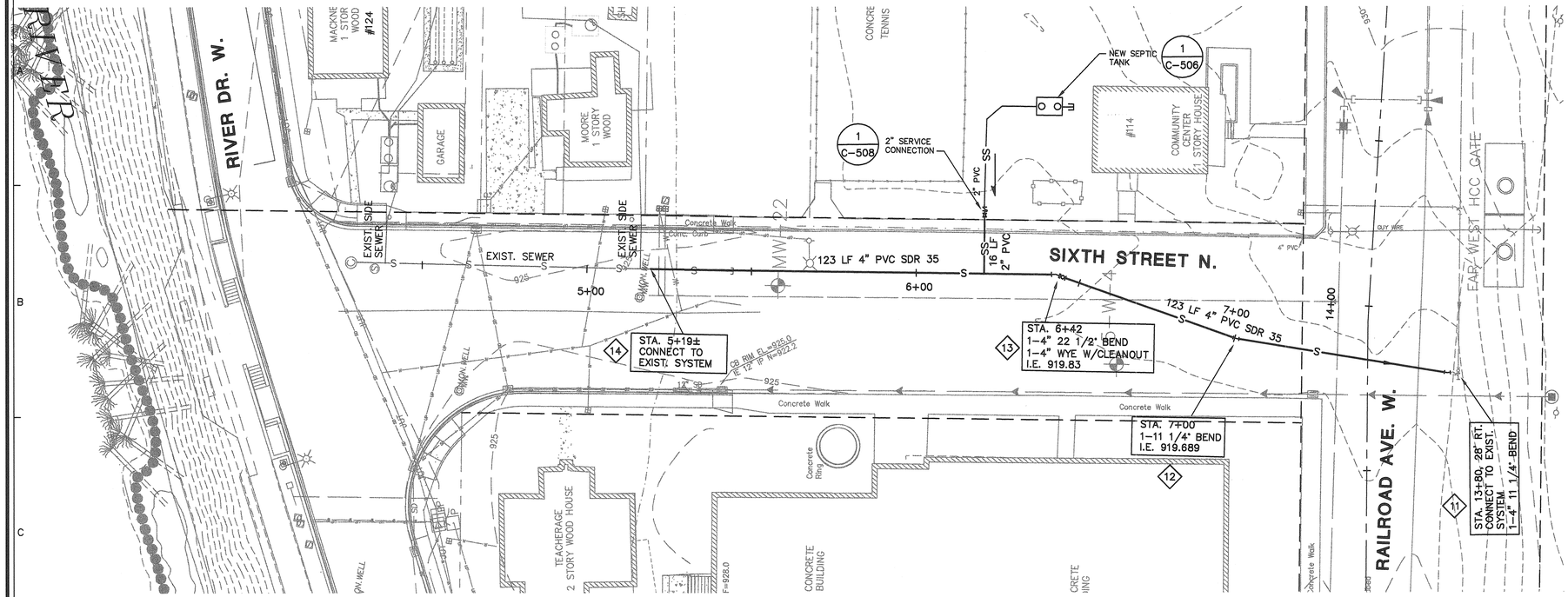
RIVER DR. W.
SIXTH STREET N.
RAILROAD AVE. W.
MACKNE 1 STORY WOOD #124
GARAGE
MOORE 1 STORY WOOD
CONCRE TENNIS
#114
COMMUNITY CENTER 1 STORY HOUSE
TEACHERAGE 2 STORY WOOD HOUSE
CONCRETE BUILDING
EXIST. SIDE SEWER
EXIST. SEWER
Concrete Walk
Conc. Curb
MW-2
MW-1
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
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MW-39
MW-40
MW-41
MW-42

SEE SHEET C-504

SEE SHEET C-501

CONCRETE TENNIS COURT

TO BE DEMOLISHED
BNSF #113
2 STORY HOUSE

SIXTH STREET N.

FIFTH STREET N.

#114
COMMUNITY CENTER
1 STORY HOUSE

TOWN MAINTENANCE
2 STORY
WOOD BUILDING

TO BE DEMOLISHED
OPERA HOUSE
2 STORY
WOOD BUILDING
#108

#104
STOVE SHOP
2 STORY BUILDING

HOUSE

ANNEX

HOTEL
4 STORY BUILDING
#102

5-W-2

MW-26

1A-W-2

NEW SEPTIC TANK (1/C-506)

2" SERVICE CONNECTION (1/C-508)

4/C-508

INSTALL NEW SIDE SEWER, TYP.

CONNECT TO EXISTING SIDE SEWER

EXISTING SEWER

EXISTING MSE WALL

Asphalt Paved Roadbed

Edge of Asphalt

CONNECT TO EXISTING SIDE SEWER

EAST WEST HCC GATE

WEST HCC GATE

RW-10 RW-08 RW-11

E. RAILROAD AVE.

Concrete

4.5' Wood Fence

6' Chain Link Fence

1" = 20':
20' 10' 0 20' 40'

CONSTRUCTION NOTES:

1. UTILITY CROSSING: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS MAY NOT BE SHOWN.
2. MINIMUM SLOPE FOR SIDE SEWER STUB IS 0.01 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF SIDE SEWER WITH PROPERTY OWNER PRIOR TO INSTALLATION.
4. LOCATIONS FOR EXISTING BUILDING SEWERS AND SEPTIC TANKS FOR THE TOWN MAINTENANCE SHOP AND STOVE SHOP ARE UNKNOWN. VERIFY LOCATION OF NEW SEPTIC TANK AND BUILDING SEWER WITH THE TOWN'S REPRESENTATIVE PRIOR TO INSTALLATION.

(X) DENOTES NUMBER FOR COORDINATES OF THAT ITEM. SEE PIPE FITTING LOCATION TABLE ON SHEET C-509 FOR COORDINATES.

EX. 12" STORM SEWER
I.E. 931.73±

EXISTING SEWER

313 LF 4" PVC SDR 35
S=0.0131

277 LF 4" PVC SDR 35
S=0.0124

	STA 13+80, 28' RT	STA 14+30, 26' RT	STA 14+95, 23' RT	STA 15+45, 20' RT	STA 16+01, 17' RT	STA 17+03, 13' RT	STA 18+10, 15' RT	STA 18+44, 15' RT
1	1–4" 45° BEND 1–4" WYE 2–4" PLUG 1–CO ASSEMBLY EL. 919.53							
2		4" SIDE SEWER STUB OUT						
3			4" SIDE SEWER STUB OUT					
4				4" SIDE SEWER STUB OUT				
5					4" SIDE SEWER STUB OUT			
6						1–4" 45° BEND 1–4" WYE 1–CO ASSEMBLY EL. 923.76		
7							4" SIDE SEWER STUB OUT	
8								4" SIDE SEWER STUB OUT

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

SANITARY SEWER PLAN & PROFILE
E. RAILROAD AVE.

NWDZ REMEDIATION

DRAWING NUMBER:
C-505

SHEET NUMBER:

REVISION 0

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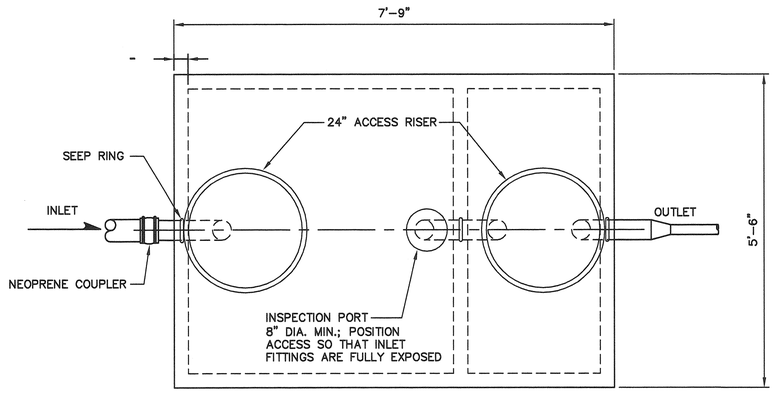
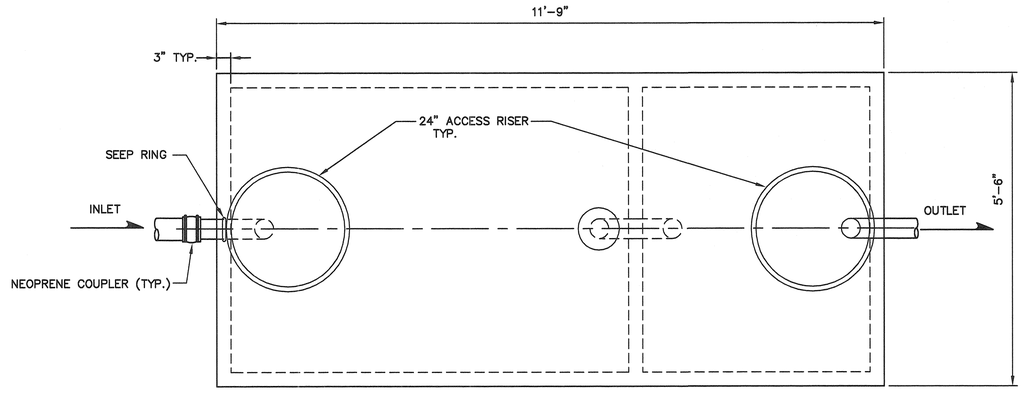
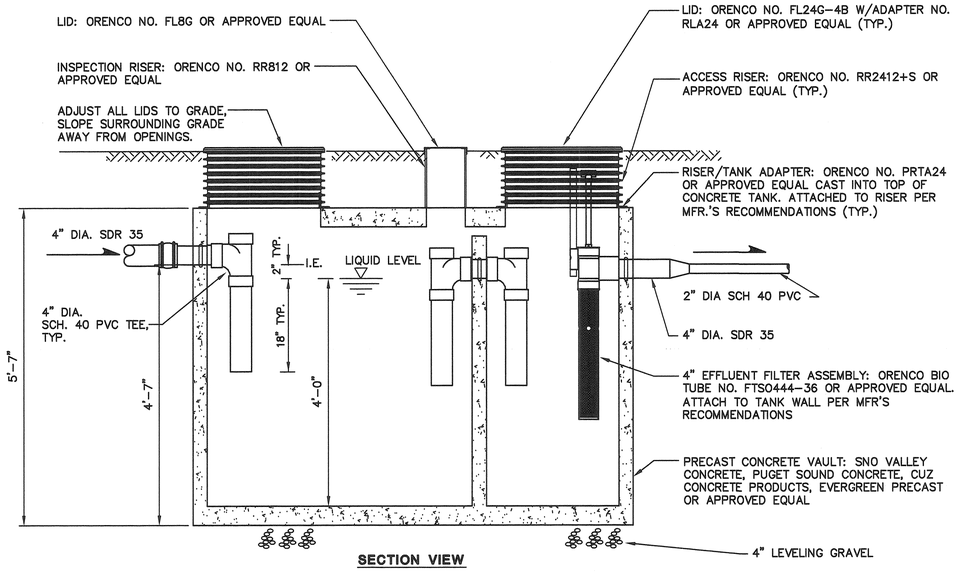


PLAN VIEW



PLAN VIEW

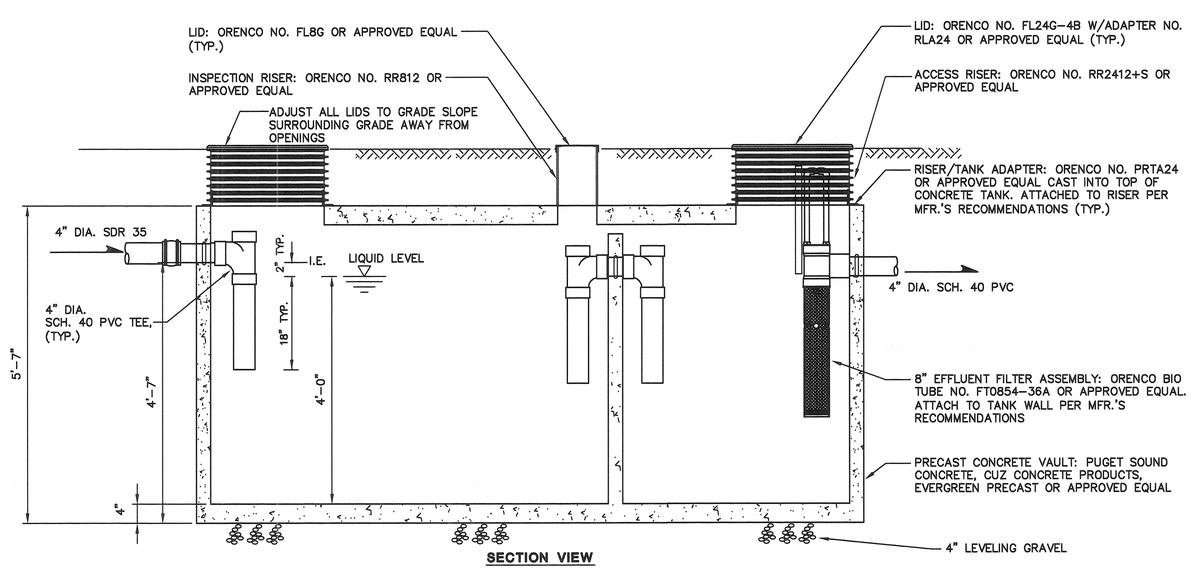
TWO COMPARTMENT 1500 GALLON SEPTIC TANK



SECTION VIEW

RESIDENTIAL SEPTIC TANK (1000 GALLON) 1 TYP

SCALE: 3/4"=1'-0"



SECTION VIEW

RESIDENTIAL SEPTIC TANK (1500 GALLON) 2 TYP

SCALE: 3/4"=1'-0"

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SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

RESIDENTIAL SEPTIC TANKS

NWDZ REMEDIATION

DRAWING NUMBER: C-506

SHEET NUMBER:

REVISION 0

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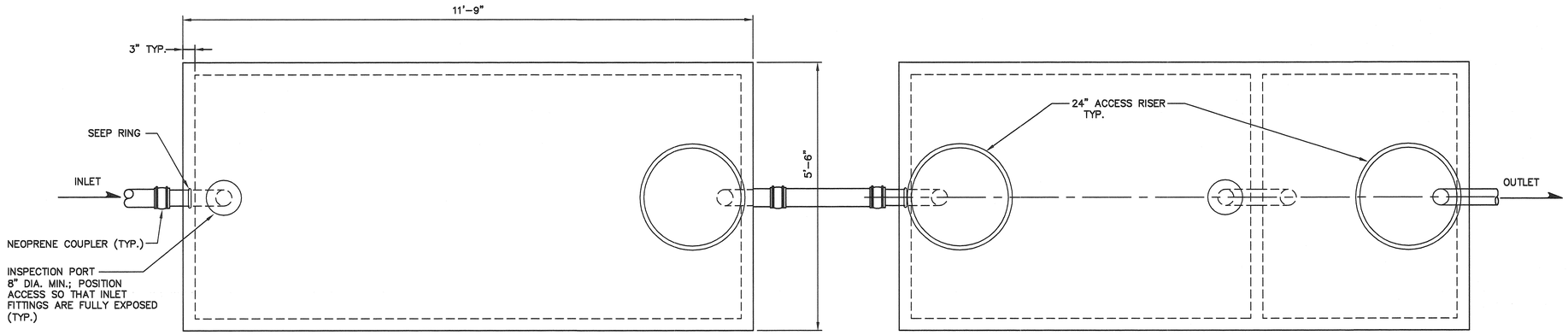
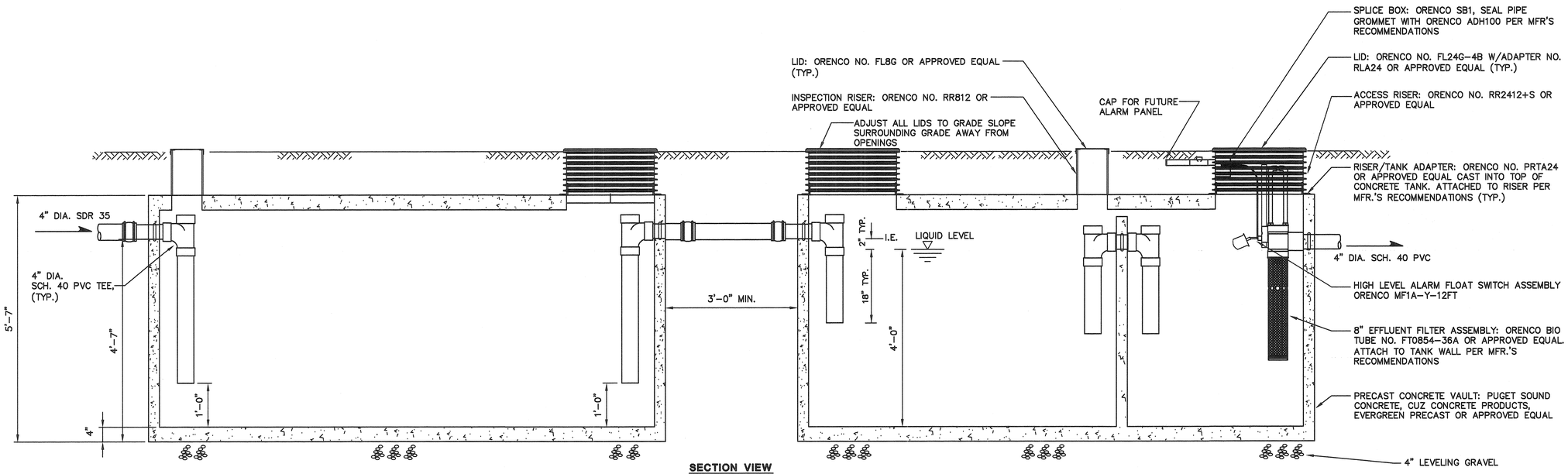


SINGLE COMPARTMENT 1500 GALLON SEPTIC TANK

PLAN VIEW

TWO COMPARTMENT 1500 GALLON SEPTIC TANK



SECTION VIEW

DUAL SEPTIC TANKS (1500 GALLON EACH) 1/TYP

SCALE: 3/4"=1'-0"

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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HARRY E. SELLERS
STATE OF WASHINGTON
27906
REGISTERED PROFESSIONAL ENGINEER
5-18-09

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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PROJ. NO.: 01140-204-0390 DATE: 05/15/09

DUAL 1500 GALLON SEPTIC TANKS IN SERIES

NWDZ REMEDIATION

DRAWING NUMBER: C-507

SHEET NUMBER:

REVISION 0

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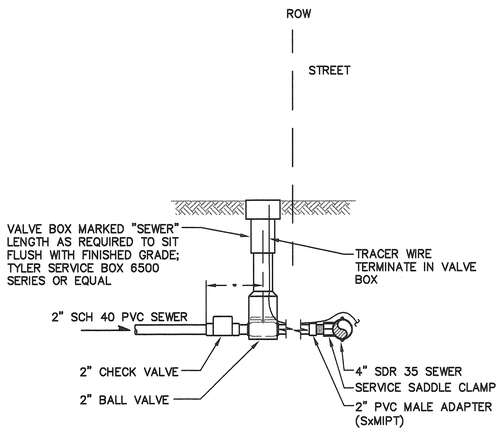
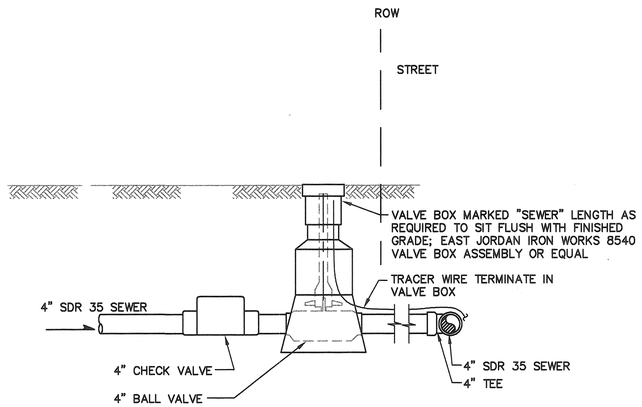


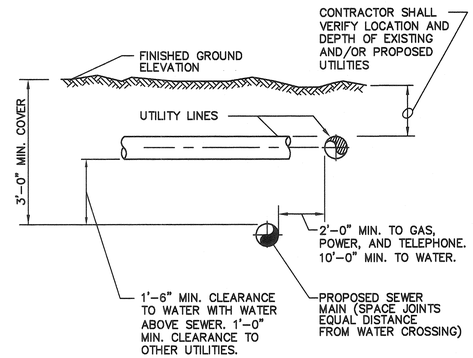
2" SERVICE CONNECTION (1 TYP.)

SCALE: 3/4"=1'-0"



4" SERVICE CONNECTION (2 TYP.)

SCALE: 3/4"=1'-0"



TYPICAL UTILITY CROSSING (3 TYP)

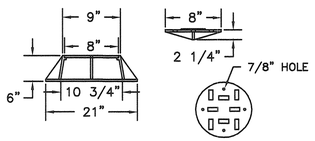
NOT TO SCALE

NOTE:

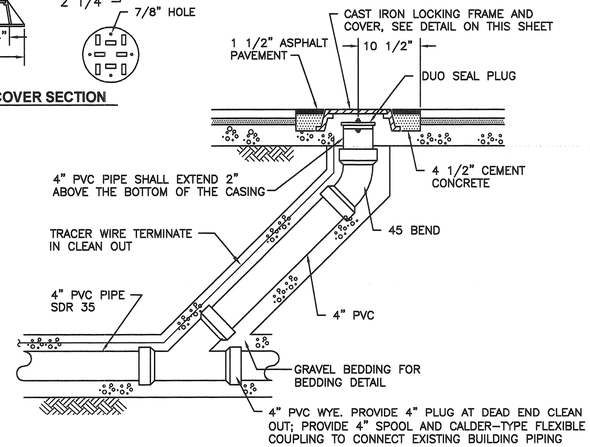
FOR SEWER LINES LESS THAN 5'-0" DEPTH, THE MINIMUM SLOPE FOR THE SEWER SERVICE LINE SHALL BE 0.01.

SIDE SEWER STUB OUT (4 TYP.)

NOT TO SCALE



FRAME AND COVER SECTION

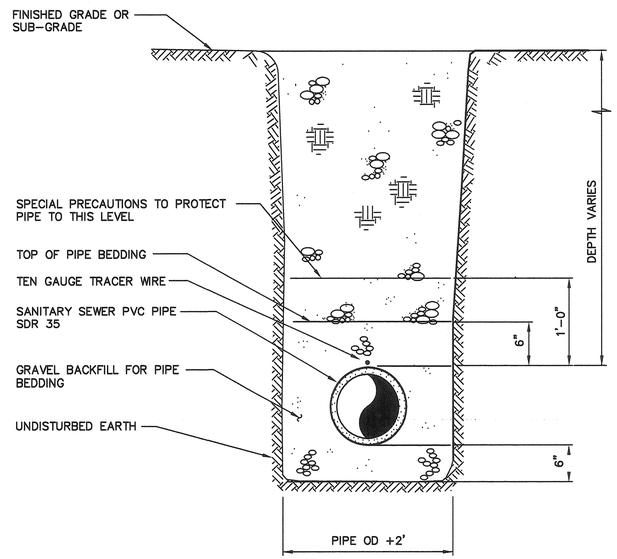


NOTES:

1. MACHINE BEARING FACES OF FRAME AND COVER TO INSURE POSITIVE FIT.

SEWER MAIN CLEAN OUT ASSEMBLY (5 TYP)

NOT TO SCALE



NOTES:

1. BACKFILL MATERIAL SHALL CONFORM TO WSDOT STANDARDS
2. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
3. REFER TO TRENCH DETAIL SHEET C-402.

SANITARY SEWER TRENCH SECTION (6 TYP.)

NOT TO SCALE

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

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BURLINGTON NORTHERN FORMER MAINTENANCE AND FUELING FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

MISCELLANEOUS SEWER DETAILS

NWDZ REMEDIATION

DRAWING NUMBER: C-508

SHEET NUMBER:

REVISION 0

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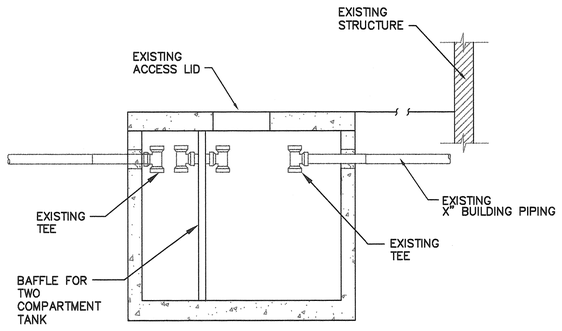

ABANDON EXISTING SEPTIC TANK PIPING AND TANKS

NOT TO SCALE

1 TYP.

NOTE:

1. ALL CHAMBERS IN EXISTING SEPTIC TANKS SHALL BE PUMPED BY LICENSED SEPTAGE HAULER.
2. ABANDON EXISTING SEPTIC TANK PER WAC 246-272A-0300 AND COMPLETE PERTINENT INFORMATION ON KING COUNTY PUBLIC HEALTH FORM "REPORT OF WASTEWATER TANK ABANDONMENT".

PIPE FITTING LOCATION TABLE

⟨X⟩ LOCATION NUMBER/DISCRIPTION	COORDINATES	
	NORTHING	EASTING
1 CONNECT TO EXISTING SYSTEM	259304.69±	1510850.05±
2 CLEANOUT ASSEMBLY	259563.01	1510813.82
3 CONNECT TO EXISTING SYSTEM	259141.36±	1510592.26±
4 4" WYE W/CLEANOUT	259322.91	1510565.52
5 4" 45° BEND	259362.38	1510596.88
6 4" WYE W/CLEANOUT	259495.87	1510576.88
7 CLEANOUT ASSEMBLY	259531.71	1510788.85
8 4" WYE	259319.30	1510565.98
9 4" 45° BEND	259346.91	1510531.46
10 CLEANOUT ASSEMBLY	259446.22	1510507.26
11 CONNECT TO EXISTING SYSTEM W/ 4" 11 1/4° BEND	259089.86±	1510207.26
12 4" 11 1/4° BEND	259155.68	1510273.18
13 4" 22 1/2° BEND W/CLEANOUT	259212.95	1510282.60
14 CONNECT TO EXISTING SYSTEM	258334.34±	1510262.97±

REFER TO SHEETS C-500 THRU C-505

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

ISSUED FOR CONSTRUCTION

Gray & Osborne, Inc.
CONSULTING ENGINEERS

HARRY E. SELLERS — STATE OF WASHINGTON — 27908 — REGISTERED PROFESSIONAL ENGINEER — 5-18-09

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
0		05/15/09	ISSUED FOR CONSTRUCTION				

AECOM

AECOM Environment
SEATTLE, WASHINGTON 98104
(206) 624-9349
www.aecom.com

BURLINGTON NORTHERN
FORMER MAINTENANCE AND
FUELING FACILITY
SKYKOMISH, WASHINGTON

PROJ. NO.: 01140-204-0390

DATE: 05/15/09

MISCELLANEOUS
SEWER DETAIL AND TABLE

NWDZ REMEDIATION

DRAWING NUMBER:
C-509

SHEET NUMBER:

REVISION 0

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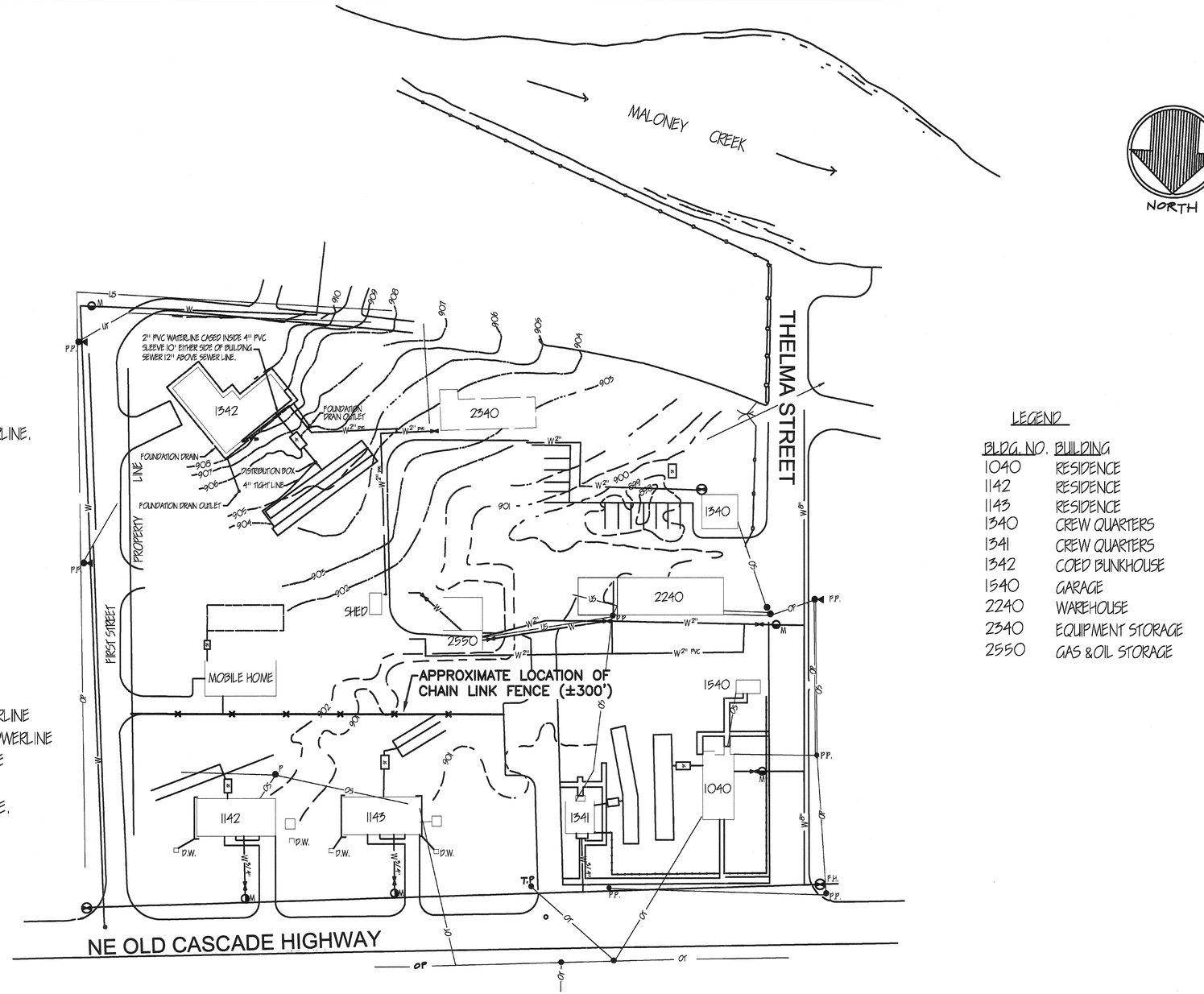
SYMBOLS

- POLE MOUNTED TRANSFORMER
- OT — OVERHEAD TELEPHONE LINE
- OS — OVERHEAD SECONDARY POWERLINE.
- W 2" — WATERLINE AND SIZE
- F.H. — FIRE HYDRANT
- HO. — HOSE BIBB
- M — WATER METER
- S — GRAVITY SEWER AND SIZE
- D.W. — DRY WELL
- T.S. — TRAILER SEWER SERVICE.
- CULVERT-DRAINAGE
- S.T. — SEPTIC TANK
- SOIL ABSORPTION FIELD
- P.P. — POWER POLE AND LINE
- UP — UNDERGROUND PRIMARY POWERLINE
- US — UNDERGROUND SECONDARY POWERLINE
- OP — OVERHEAD PRIMARY POWERLINE
- E — ELECTRICAL BOX FOR TRAILERS
- UT — UNDERGROUND TELEPHONE LINE.
- 1430 — BUILDING AND NUMBER
- OIL TANK
- FENCE



LEGEND

BLDG. NO.	BUILDING
1040	RESIDENCE
1142	RESIDENCE
1143	RESIDENCE
1340	CREW QUARTERS
1341	CREW QUARTERS
1342	COED BUNKHOUSE
1540	GARAGE
2240	WAREHOUSE
2340	EQUIPMENT STORAGE
2550	GAS & OIL STORAGE

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-6
PACIFIC NORTHWEST REGION

AUTOCAD REVISED 07/2007

Drawn
Design
Checked
Reviewed

Forest: MT. BAKER-SNOQUALMIE NATIONAL FOREST
SKYKOMISH RANGER DISTRICT
Project Name

Sheet Title: SKYKOMISH COMPOUND SITE PLAN
Scale
Sheet of

WINSTON GREEN — REGISTERED PROFESSIONAL ENGINEER — 5/18/09

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BURLINGTON NORTHERN
FORMER MAINTENANCE FACILITY
SKYKOMISH, WASHINGTON

DATE: 05/15/09

PROJ. NO.: 01140-204-0390

US FOREST SERVICE
COMPOUND FENCING

NWDZ REMEDIATION

DRAWING NUMBER: C-600

SHEET NUMBER:

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