# NORTH BEACH WATER DISTRICT

PACIFIC COUNTY



WASHINGTON

# WATER MAIN PROJECT

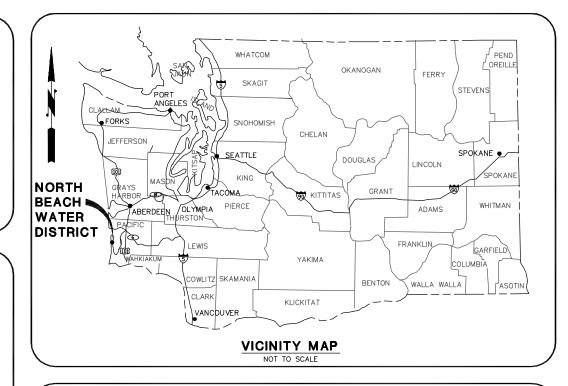
NORTH BEACH WATER DISTRICT
25902 VERNON AVE.
POST OFFICE BOX 618
OCEAN PARK, WA 98640
PHONE NO. (360) 665-4144

# **NBWD OFFICIALS**

**BRIAN SHELDON COMMISSIONER-POSTION 1 GWEN BRAKE COMMISSIONER-POSTION 2 COMMISSIONER-POSTION 3** R.D. WILLIAMS WILLIAM NEAL **GENERAL MANAGER** JACK McCARTY OFFICE MANAGER **BILLING CLERK** KRISTIN GALOUIN **BOB HUNT** FIELD SUPERVISOR **NICK MORRISON** TREATMENT PLANT OPERATOR

# **CONTACT INFORMATION**

NAME **AGENCY** PHONE No. WILLIAM NEAL NBWD MANAGER (360) 665-4144 PACIFIC COUNTY PUBLIC WORKS (360) 875-9368 MIKE COLLINS PACIFIC COUNTY POWER (360) 642-3191 PUD NO. 2 (855) 742-6062 **CENTURY LINK** TELEPHONE CABLE (425) 392-6412 COMMUNICATIONS

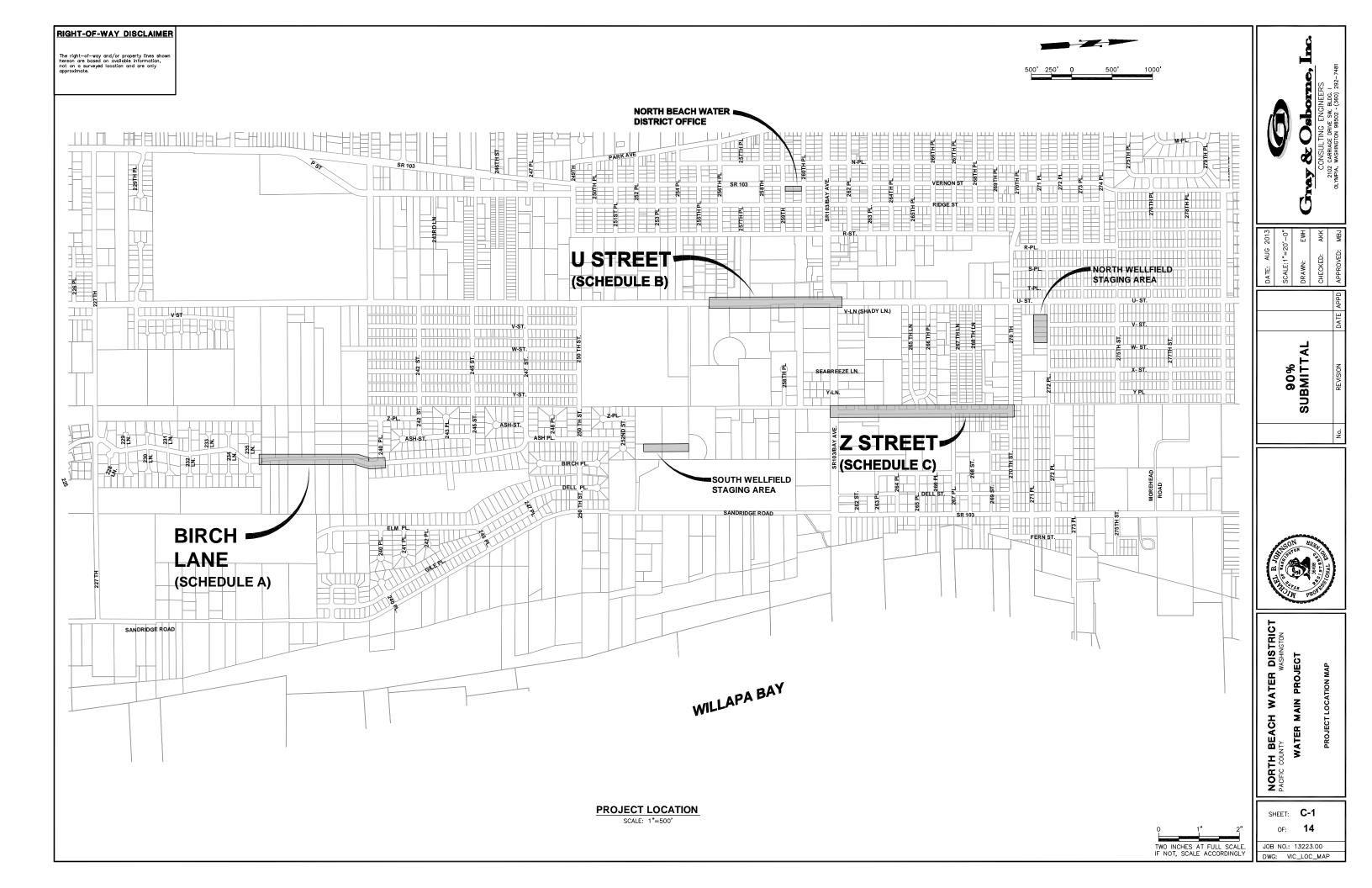


THIS PROJECT IS FUNDED IN PART BY
A DRINKING WATER STATE
REVOLVING FUND LOAN (DWSRF)

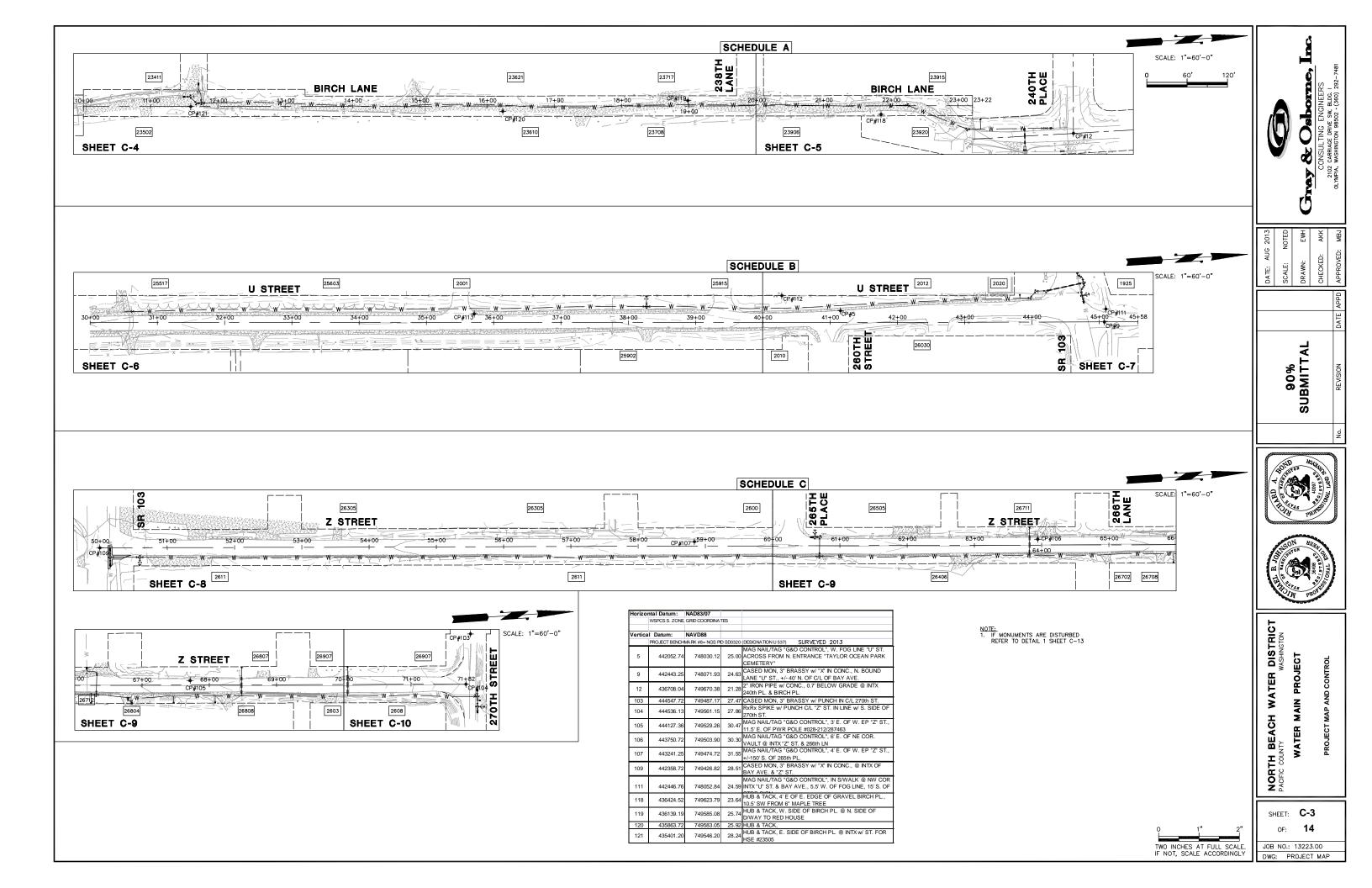
	SHEET LIST
8HEET	SHEET DESCRIPTION
	GENERAL SHEETS
C-1	PROJECT LOCATION MAP
C-2	ABBREVIATIONS, GENERAL SYMBOLS, SYMBOL LEGEND AND GENERAL NOTES
C-3	PROJECT MAP AND CONTROL
C-4	SCHEDULE A - BIRCH LANE WATER MAIN PLANS STA 10+00 TO 20+00
C-5	SCHEDULE A - BIRCH LANE WATER MAIN PLANS STA 20+00 TO END
C-6	SCHEDULE B - U STREET WATER MAIN PLANS STA 30+00 TO 40+00
C-7	SCHEDULE B - U STREET WATER MAIN PLANS STA 40+00 TO END
C-8	SCHEDULE C - Z STREET WATER MAIN PLANS STA 50+00 TO 60+00
C-9	SCHEDULE C - Z STREET WATER MAIN PLANS STA 60+00 TO 70+00
C-10	SCHEDULE C - Z STREET WATER MAIN PLANS STA 70+00 TO END
C-11	MISCELLANEOUS DETAILS
C-12	MISCELLANEOUS DETAILS
C-13	MISCELLANEOUS DETAILS
C-14	EROSION CONTROL DETAILS

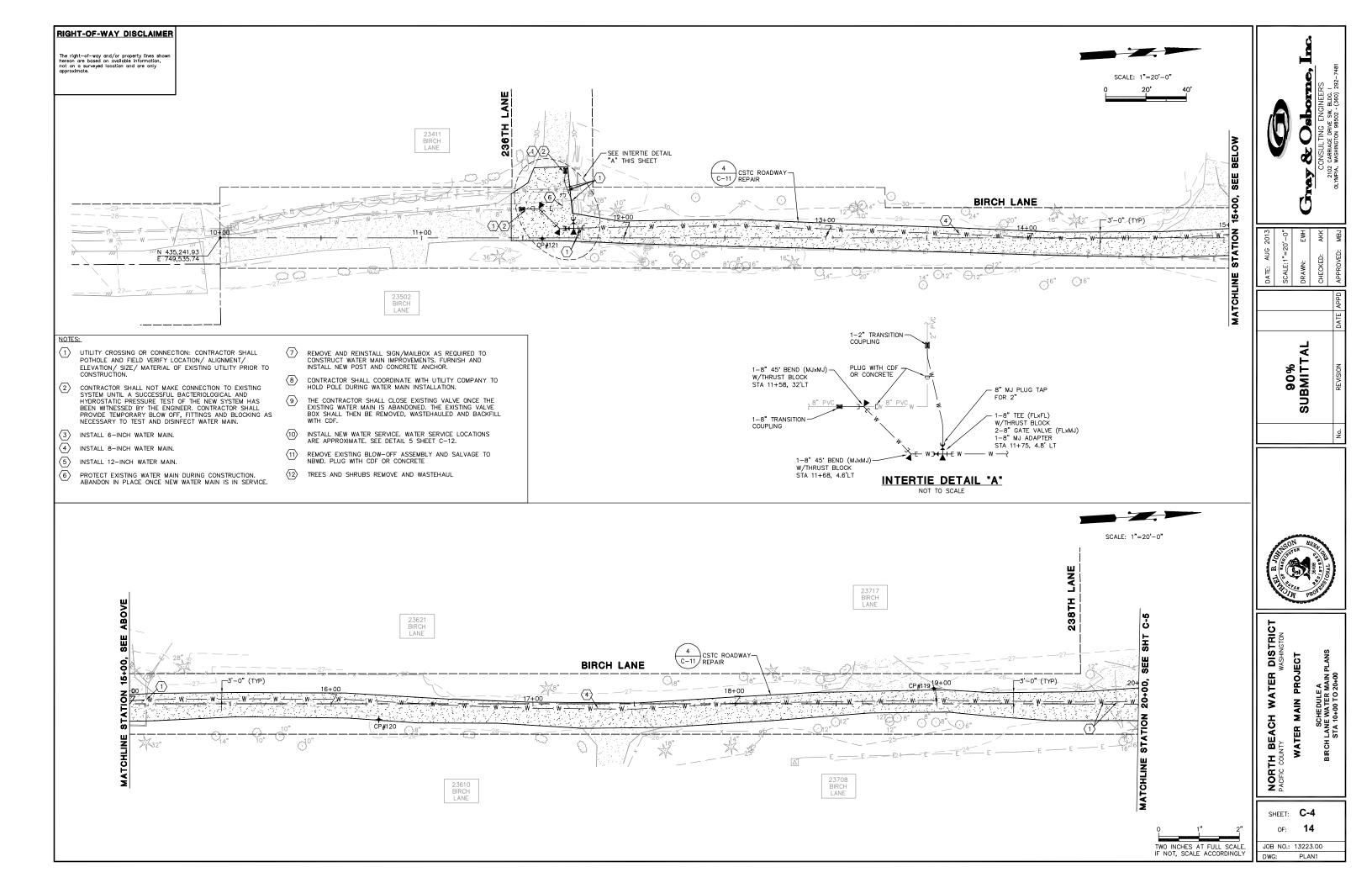
G&O JOB No.: 13223.00 SEPTEMBER 2013

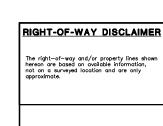


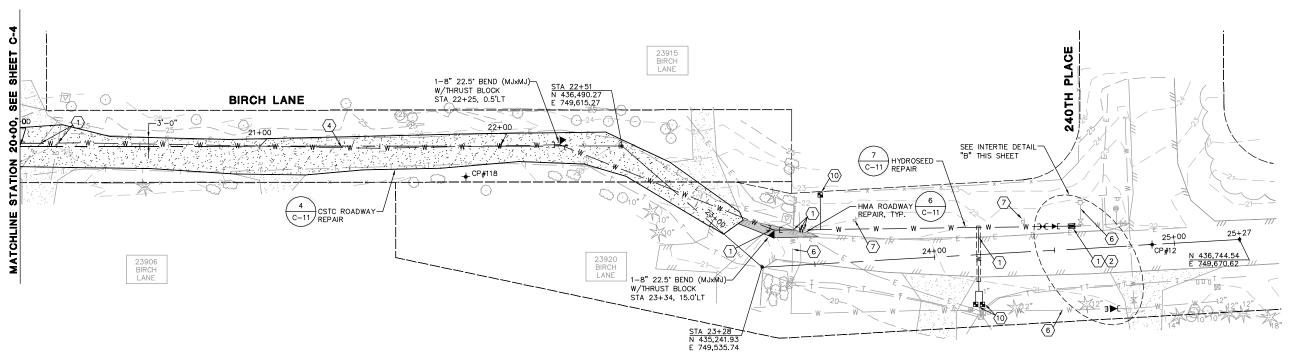


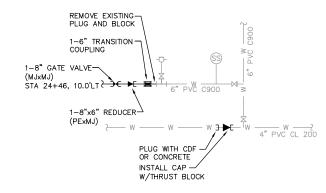
ABBF	REVIATIONS				GENERAL SYM	BOLS			SYMBOL LEGEND			, SE
AB AC ACP ADJ AISC	ANCHOR BOLT ASPHALT CONCRETE ACOUSTIC PANEL ADJUSTABLE AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L LB LB/HR LF	LENGTH POUND POUNDS PER HOUR LINEAR FEET	1/4" FT.	SLOPE 1/4" PER FOOT FLOW DIRECTION (AIR, WATER)		SQUARE SECTION PIPE SECTION	EXISTING	ASPHALT SURFACING	PROPOSED	ASPHALT SURFACING	FBC, I.S. (6. 1
ALTR ALUM ANSI ASCE ASPH	ALTERNATE ALUMINUM AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY OF CIVIL ENGINEERS ASPHALT	MAG MAX MDO MECH MFGR, MF	MAGNETIC MAXIMUM MEDIUM DENSITY OVERLAY MECHANICAL R MANUFACTURER	<b>⊠</b> \$	OPENING GROUND	@ *	SPACING CENTER ON CENTER SIZE OF DEFORMED BAR	<u> [5844823]</u>	GRAVEL SURFACING	( <u>533-333</u>	GRAVEL SURFACING BARK SURFACING	Sebon VG ENGINE NRVE SW. BLD N 98502 - (36)
ASTM ASSY AVE AWS	AMERICAN SOCIETY OF TESTING AND MATERIALS ASSEMBLY AVENUE AMERICAN WELDING SOCIETY	MGD MG/L MH	MILLION GALLONS PER DAY MILLIGRAM PER LITER MANHOLE		ASPHALT SECTION	ø	DIAMETER	(* * * * * * * * * * * * * * * * * * *	CONCRETE SURFACING			VSULTING ARRIAGE TO ASHINGTON
BI	BLACK IRON	MIN MJ MO	MINIMUM MECHANICAL JOINT MID ORDINATE	¥	CONCRETE SECTION	<u></u>	RECTANGULAR SECTION	—— UE——	BURIED ELECTRICAL  BURIED TELEPHONE			COI 2102 C, mMPIA, W.
BLD FLG BLDG BLK	BLACK INON BLIND FLANGE BUILDING BLOCK	N No.	NORTH NUMBER	₹	WATER SURFACE	2	ANGLE	w	WATER MAIN (SIZE AS NOTED)	w	WATER MAIN	<b>       </b>
BOD BOW BTWN	BOTTOM OF DUCT BOTTOM OF WALL	NTS	NOT TO SCALE	<b>⋄</b>	ELEVATION REFERENCE POINT  LEGEND/NOTE CALL OUTS	w c	WIDE-FLANGE SHAPE CHANNEL	p	STORM DRAIN (SIZE & TYPE AS NOTED)			
BVC	BETWEEN BEGIN VERTICAL CURVE	OC OD OPNG	ON CENTER OUTSIDE DIAMETER OPENING	•	PIPE SUPPORT	PL	PLATE		RIGHT OF WAY			2013 OTED EWH AKK
C CAP CB CFM	CONDUIT CORRUGATED ALUMINUM PIPE CATCH BASIN CUBIC FEET PER MINUTE	OPP OSHA	OPPOSITE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	•	ELECTRICAL MAST	Ģ.	CENTER LINE		CENTERLINE OF ROADWAY	*	SILT FENCE	ALE: AUG :: ALE: NG :: AWN: ECKED: PROVED:
CL QL	CAST IRON CLASS CENTER LINE	PE PERF PL	PLAIN END PERFORATED PLATE					$\longrightarrow$ $\longrightarrow$ $\longrightarrow$	DITCH			SC DA PP PP
CLR CMP CMU	CLEARANCE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	PLYWD POT PRV	PLYWOOD POTABLE PRESSURE REDUCING VALVE						CENTER LINE			APP T
CO CONC CONN CONT	CLEANOUT CONCRETE CONNECTION CONTRACTOR	PPG PSF PSI PSIG	POTASSIUM PERMANGANATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE	<u>E</u> )	XAMPLE OF SECTION AND PLAN/DRA			M	GATE VALVE	H	GATE VALVE	DAT
CONV CPLG CONTIN	CONVEYOR COUPLING CONTINUED	PTS PVC PVMT	PAINTED SURFACE POLYVINYL CHLORIDE PAVEMENT		FOR DETAILS SUBSTITUTE DETAIL			<b>⊞</b>	WATER METER		WATER METER	
COP CP CSH CTR	COPPER CORNER POST CONCRETE SURFACE HARDENER CENTER							-	FIRE HYDRANT	- <b>±</b>	FIRE HYDRANT	MIT %
	DRAIN	QT QUAD	QUARTER QUADRANT		<u> </u>	_	SECTION LETTER OR DETAIL NUMBER			◀	THRUST BLOCK	90% SUBMITT/
D DI DIA DIR	DIATIN DUCTILE IRON DIAMETER DIRECTION	R RD RED	RADIUS ROOF DRAIN REDUCER	ELEVATION VIEW ON SHT. M-1	A SECTION CUT ON SHT. M-1		2 SHT. ON WHICH SECTION			Ħ	FLEXIBLE COUPLING	<b>6</b>
DISCH DN DP	DISCHARGE DOWN DIFFERENTIAL PRESSURE	REINF REQD RESTL	REINFORCE REQUIRED REINFORCING STEEL				OR DETAIL APPEARS		ELECTRICAL TRANSFORMER	•	REDUCER	ġ
E	EAST	RM RO R/W	ROOM ROUGH OPENING RIGHT—OF—WAY					<u></u>	UTILITY POLE WITH GUY WIRE			
EA ECC EL	EACH ECCENTRIC ELEVATION	s	SOUTH,	ON SHT. IS IDENTI	M-2 THIS SECTION SECT		ON BETAIL NOMBER	-0-	UTILITY POLE			
ELL ELEC EMERG	ELBOW ELECTRICAL EMERGENCY	SCH SF SFN	SCHEDULE SQUARE FEET SURVEY FOUND NAIL	13 IDENTI	SCALE:	?"=1'-0" C-	SHT. FROM WHICH SECTION OR DETAIL WAS TAKEN	$\phi\!\!\longrightarrow\!$	LUMINAIRE			
EXIST EXP EW	EXISTING EXPANSION EACH WAY	SHC SHT SL	SODIUM HYPOCHLORITE SHEET SLOPE						JUNCTION BOX (AS NOTED)			
EVC	END VERTICAL CURVE	SP SPECS SQ	STATIC PRESSURE SPECIFICATIONS SQUARE			SECTION LETTER OR DETAIL NUMB		××-	FENCE			STEON WAR
FAB FCA FD	FABRICATED FLANGED COUPLING ADAPTER FLOOR DRAIN	SS SSNT STA	STAINLESS STEEL SURVEY SET NAIL/TAG STATION	- SEC	CTION APPEARS ON TYP	SECTION IS TYPIC TO MANY PLACE:	ARE USED INSTEAD OF LETTERS		CULVERT  MAIL BOX			BB 3548
FF FIG FIN	FACTOR DIVAIN FACTORY FINISH, FINISHED FLOOR FIGURE FINISHED	STD STL STRG	STANDARD STEEL STRONG	JAI				Д	ROAD SIGN			THE PROPERTY OF THE PROPERTY O
FL FLL FLEX	FLANGE FLOW LINE FLEXIBLE	SUC SUP	SUSPENDED CEILING SUPPORT	DRAWING TITLE IDE		VING TIT	<u>LE</u>	*00	TREES			
FLR FPM FT	FLOOR FEET PER MINUTE FEET	TAPD TB TC	TAPERED TOP AND BOTTOM TOP OF CURB					W O C	1 Chain			RICT ON SS.
FT2	SQUARE FEET GAUGE	TDH TEL THK	TOTAL DYNAMIC HEAD TELEPHONE THICK						SHRUBS			
GALV GEN GI	GALVANIZED GENERAL GALVANIZED IRON	THRD THRU TK	THREADED THROUGH TANK									ER DIS WASH ROJECT
GOVT GPD GPM	GOVERNMENT GALLONS PER DAY GALLONS PER MINUTE	TOC TOW TS	TOP OF CONCRETE TOP OF WALL TOTAL SOLIDS	GENERAL	NOTES:				BUILDINGS			H P PI
GRD GRV GSP GV	GRADE GROOVED PIPE OR COUPLING GALVANIZED STEEL PIPE GATE VALVE	TYP VC VERT	TYPICAL  VERTICAL CURVE  VERTICAL	AND ARE SECONSTRUCTI	, EXISTING STRUCTURES AND FACILITI HOWN IN LIGHT LINE WEIGHTS OR AS ION, STRUCTURES, FACILITIES, AND FE	SCREENED BACK	(GROUND. NEW	20	CONTOUR	+	CONTROL POINT	RTH BEACH W. IC COUNTY WATER MAIN ABBREVIATIONS, GEN
GWB H HEX	GYPSUM WALL BOARD  HEIGHT  HEXAGONAL	VFD VIS VS	VARIABLE FREQUENCY DRIVE VINYL SHEET VOLATILE SOLIDS		HE SYMBOLS SHOWN ON THIS LEGEND			### ROAD NAME	HOUSE ADDRESS			BEA
HMA HORIZ HP	HOT MIX ASPHALT HORIZONTAL HORSEPOWER	w w/	WIDTH, WEST WITH	SOME CONT	DE CLARITY AND ARE NOT NECESSAR RACT DRAWINGS MAY HAVE ADDITION. FIC DRAWING. SYMBOLS SHOWN ON:	AL LEGENDS APF	PLICABLE FOR	SS	SAMPLING STATION			
HR HDPE ID	HOUR HIGH DENSITY POLYETHYLENE INSIDE DIAMETER	WD W/O WS WWM	WIDE WITHOUT WATER SURFACE WELDED WIRE MESH		ACTOR SHALL VERIFY ALL PLANIMETRI TARTING WORK AND SHALL NOTIFY TI							O N O O
IE INF INV	INVERT ELEVATION INFLUENT INVERT	WWF	WELDED WIRE FABRIC	SPECIFICATION	IONS SHOWN ON THE CONTRACT DRA ONS REFER TO THE HORIZONTAL AND HERWISE INDICATED.						0 1" 2"	SHEET: <b>C-2</b> OF: <b>14</b>
J BOX	JUNCTION BOX			0112233 011							TWO INCHES AT FULL SCALE.	JOB NO.: 13223.00
											IF NOT, SCALE ACCORDINGLY	DWG: PIPE_SYMB











# **INTERTIE DETAIL "B"** NOT TO SCALE

# NOTES:

- UTILITY CROSSING OR CONNECTION: CONTRACTOR SHALL POTHOLE AND FIELD VERIFY LOCATION/ ALIGNMENT/ ELEVATION/ SIZE/ MATERIAL OF EXISTING UTILITY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT MAKE CONNECTION TO EXISTING SYSTEM UNTIL A SUCCESSFUL BACTERIOLOGICAL AND HYDROSTATIC PRESSURE TEST OF THE NEW SYSTEM HAS BEEN WITNESSED BY THE ENGINEER. CONTRACTOR SHALL PROVIDE TEMPORARY BLOW OFF, FITTINGS AND BLOCKING AS NECESSARY TO TEST AND DISINFECT WATER MAIN.
- INSTALL 6-INCH WATER MAIN.
- INSTALL 8-INCH WATER MAIN.
- INSTALL 12-INCH WATER MAIN.
- **6** PROTECT EXISTING WATER MAIN DURING CONSTRUCTION. ABANDON IN PLACE ONCE NEW WATER MAIN IS IN SERVICE.

- REMOVE AND REINSTALL SIGN/MAILBOX AS REQUIRED TO CONSTRUCT WATER MAIN IMPROVEMENTS. FURNISH AND INSTALL NEW POST AND CONCRETE ANCHOR.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO HOLD POLE DURING WATER MAIN INSTALLATION.
- THE CONTRACTOR SHALL CLOSE EXISTING VALVE ONCE THE EXISTING WATER MAIN IS ABANDONED. THE EXISTING VALVE BOX SHALL THEN BE REMOVED, WASTEHAULED AND BACKFILL WITH COF. 9
- INSTALL NEW WATER SERVICE. WATER SERVICE LOCATIONS ARE APPROXIMATE. SEE DETAIL 5 SHEET C-12.
- REMOVE EXISTING BLOW-OFF ASSEMBLY AND SALVAGE TO NBWD. PLUG WITH CDF OR CONCRETE
- TREES AND SHRUBS REMOVE AND WASTEHAUL



CHECKED:

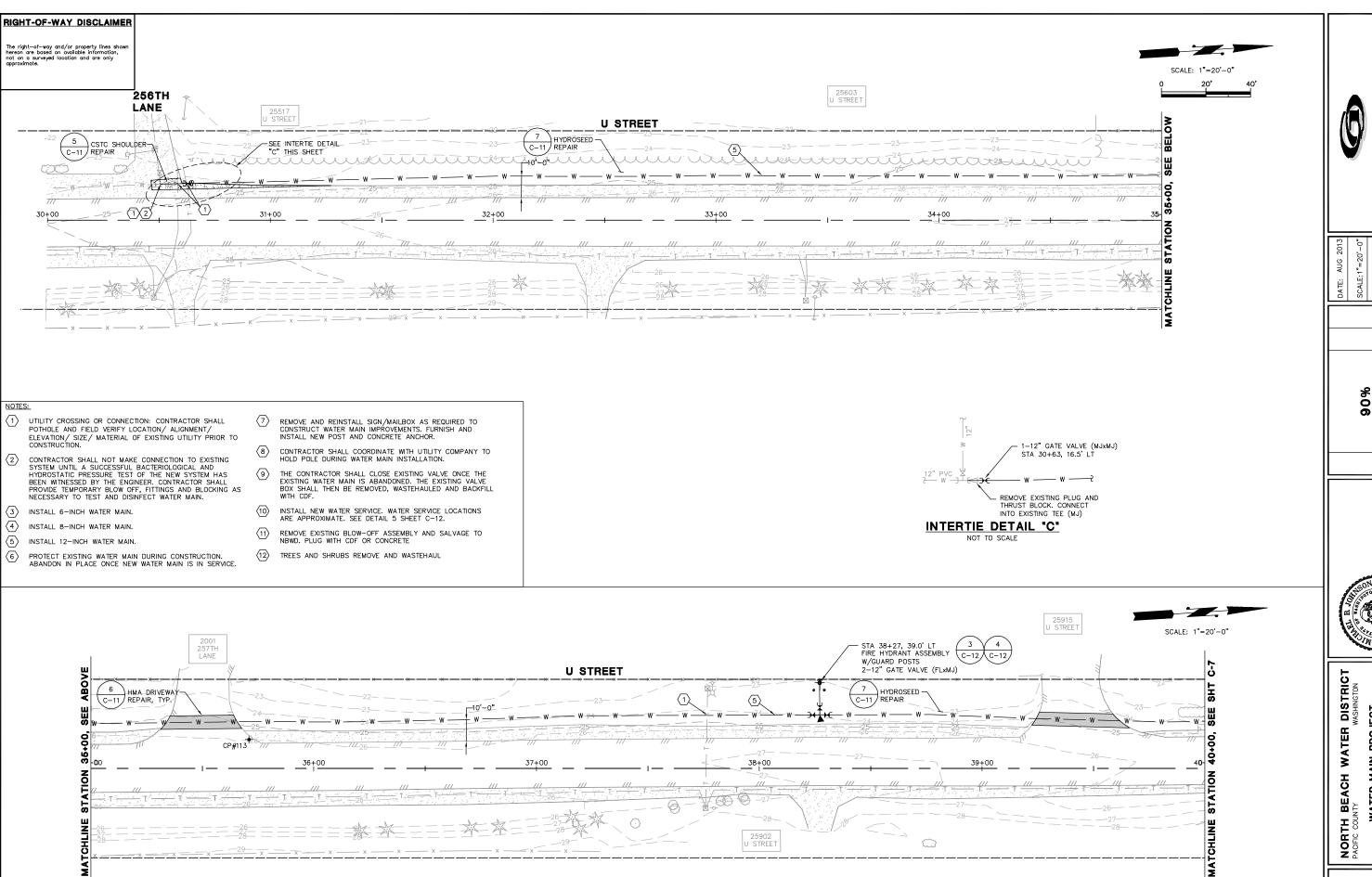
SCALE: 1 DRAWN:

90% SUBMITT/

NORTH BEACH WATER DISTRICT
PACIFIC COUNTY
WASHINGTON

WATER MAIN PROJECT

	SHEET: C-5
0 1" 2"	OF: <b>14</b>
TWO INCHES AT FULL SCALE.	JOB NO.: 13223.00
IF NOT, SCALE ACCORDINGLY	DWG: PLAN2



WATER MAIN PROJECT
SCHEDULE B
U STREET WATER MAIN PLANS
STA 30+00 TO 40+00

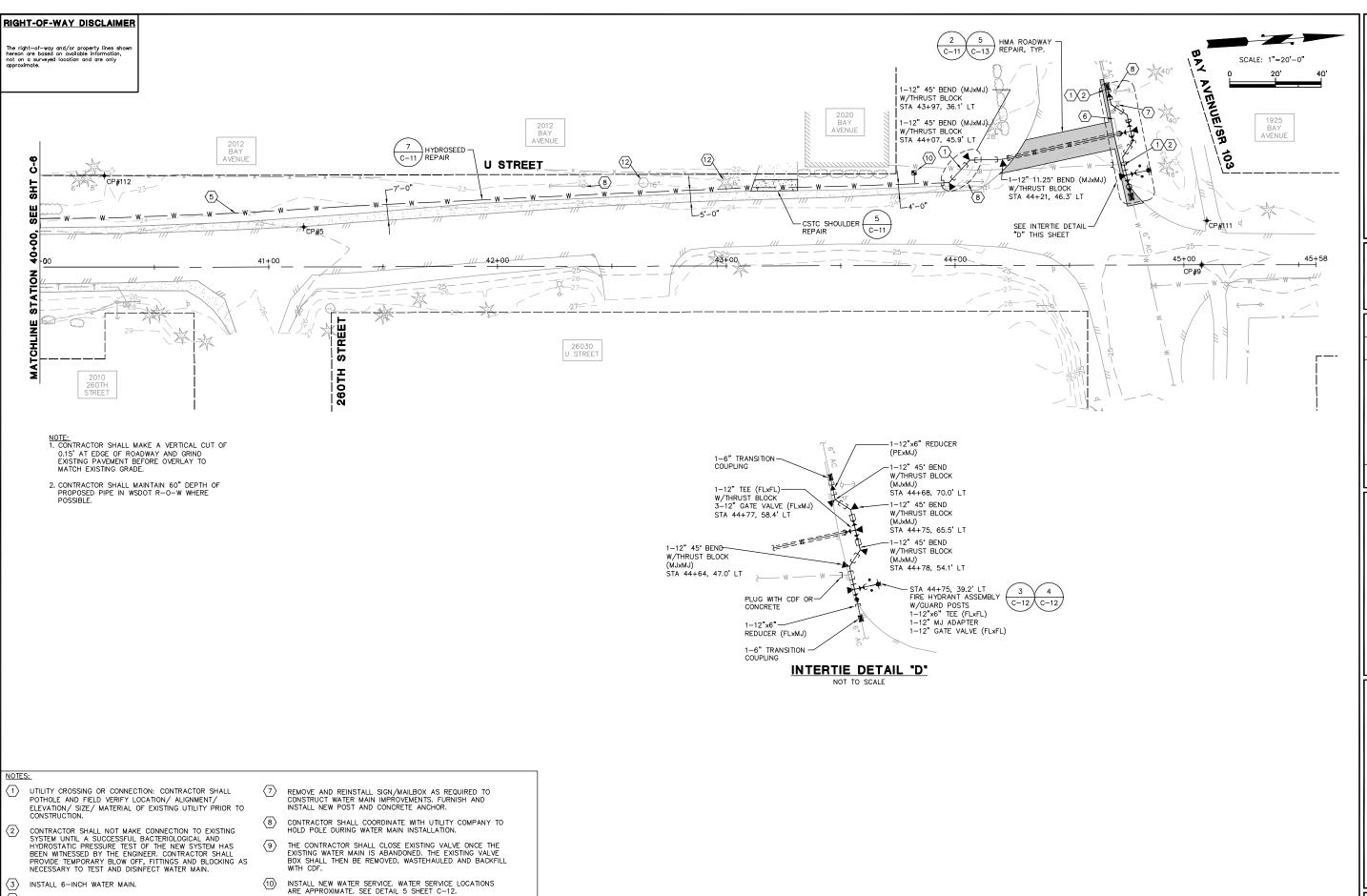
DRAWN:

90% SUBMITT/

SHEET: **C-6**OF: **14**JOB NO.: 13223.00

PLAN3

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY



INSTALL 8-INCH WATER MAIN.

INSTALL 12-INCH WATER MAIN.

 $\langle 6 \rangle$ 

PROTECT EXISTING WATER MAIN DURING CONSTRUCTION.
ABANDON IN PLACE ONCE NEW WATER MAIN IS IN SERVICE.

REMOVE EXISTING BLOW-OFF ASSEMBLY AND SALVAGE TO NBWD. PLUG WITH CDF OR CONCRETE

TREES AND SHRUBS REMOVE AND WASTEHAUL

SCALE: 1"=20"-0"

SCALE: 1"=20"-0"

DRAWN: EWH

CHECKED: AKK

SION DATE APPD APPROVED: MBJ

MUCHEN PROPERTY OF THE PROPERT

H BEACH WATER DISTRICT

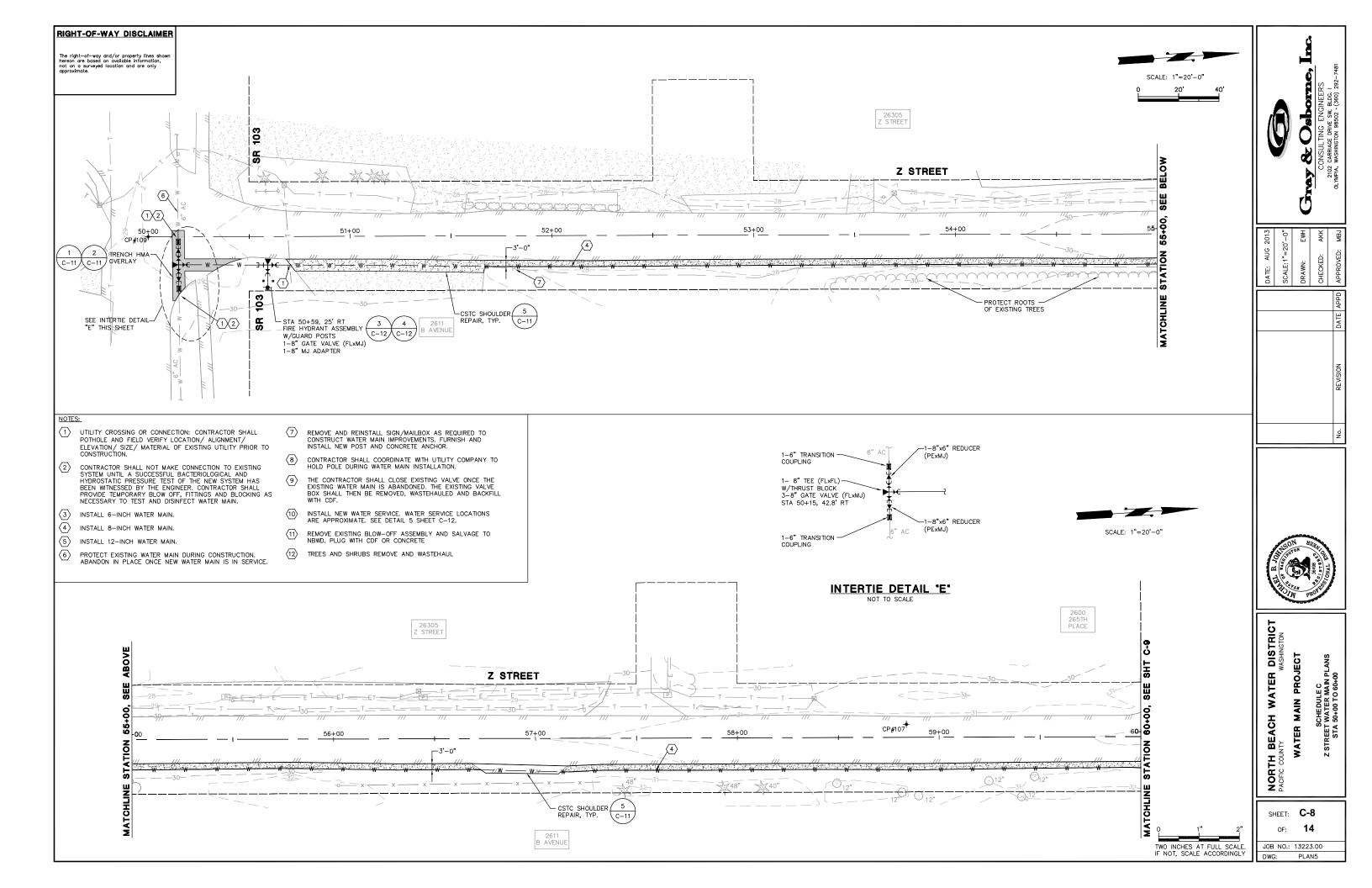
WASHINGTON

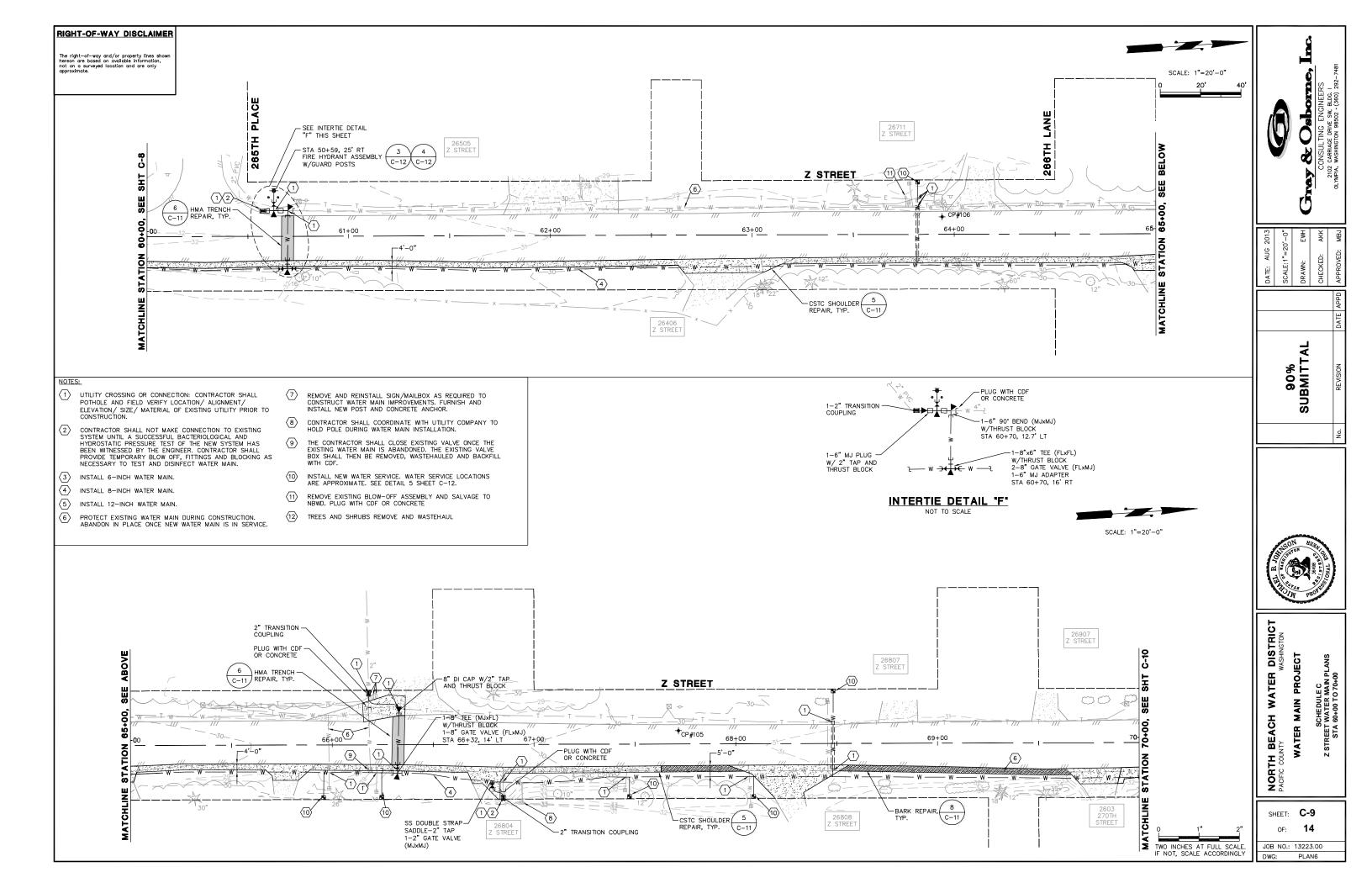
WATER MAIN PROJECT

NORTH BEACH
PACIFIC COUNTY
WATER N
SC

SHEET: **C-7**OF: **14**JOB NO.: 13223.00

DWG: PLAN4

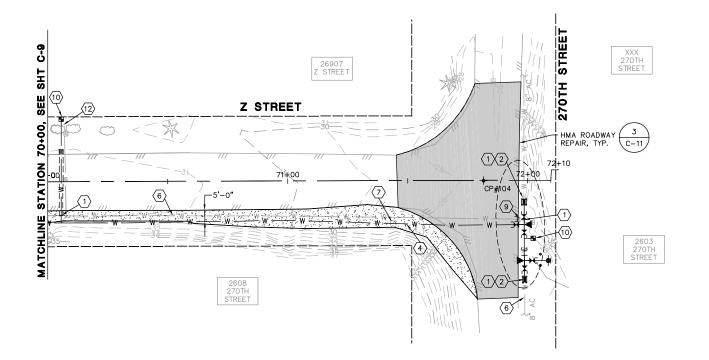


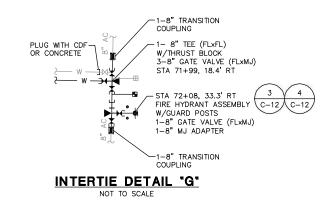


# RIGHT-OF-WAY DISCLAIMER

The right—of—way and/or property lines show hereon are based on available information, not on a surveyed location and are only approximate.







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- (8) CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO HOLD POLE DURING WATER MAIN INSTALLATION.
- (9) THE CONTRACTOR SHALL CLOSE EXISTING VALVE ONCE THE EXISTING WATER MAIN IS ABANDONED. THE EXISTING VALVE BOX SHALL THEN BE REMOVED, WASTEHAULED AND BACKFILL WITH CDF.
- 10) INSTALL NEW WATER SERVICE. WATER SERVICE LOCATIONS ARE APPROXIMATE. SEE DETAIL 5 SHEET C-12.
- REMOVE EXISTING BLOW-OFF ASSEMBLY AND SALVAGE TO NBWD. PLUG WITH CDF OR CONCRETE
- 12 TREES AND SHRUBS REMOVE AND WASTEHAUL



SCALE:1"=2C DRAWN:

> 90% SUBMITT/

BEACH WATER DISTRICT

UNIY

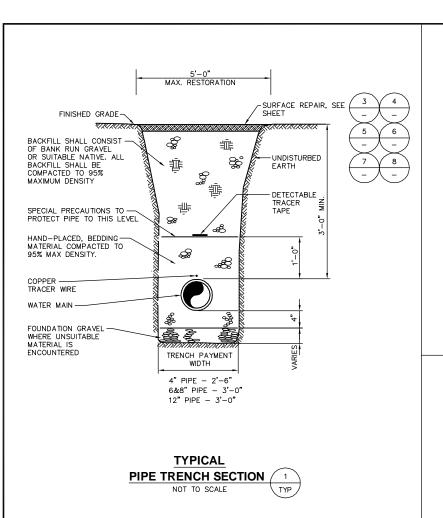
WASHINGTON

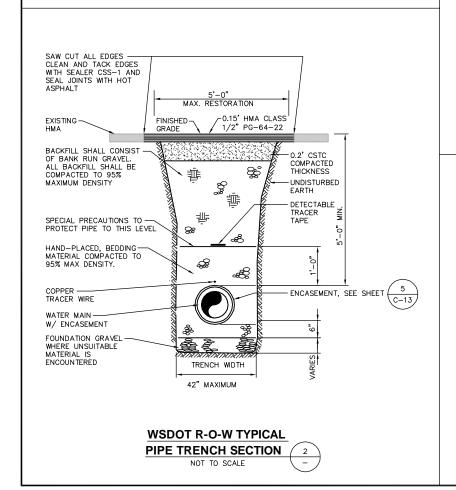
NORTH PACIFIC COUN

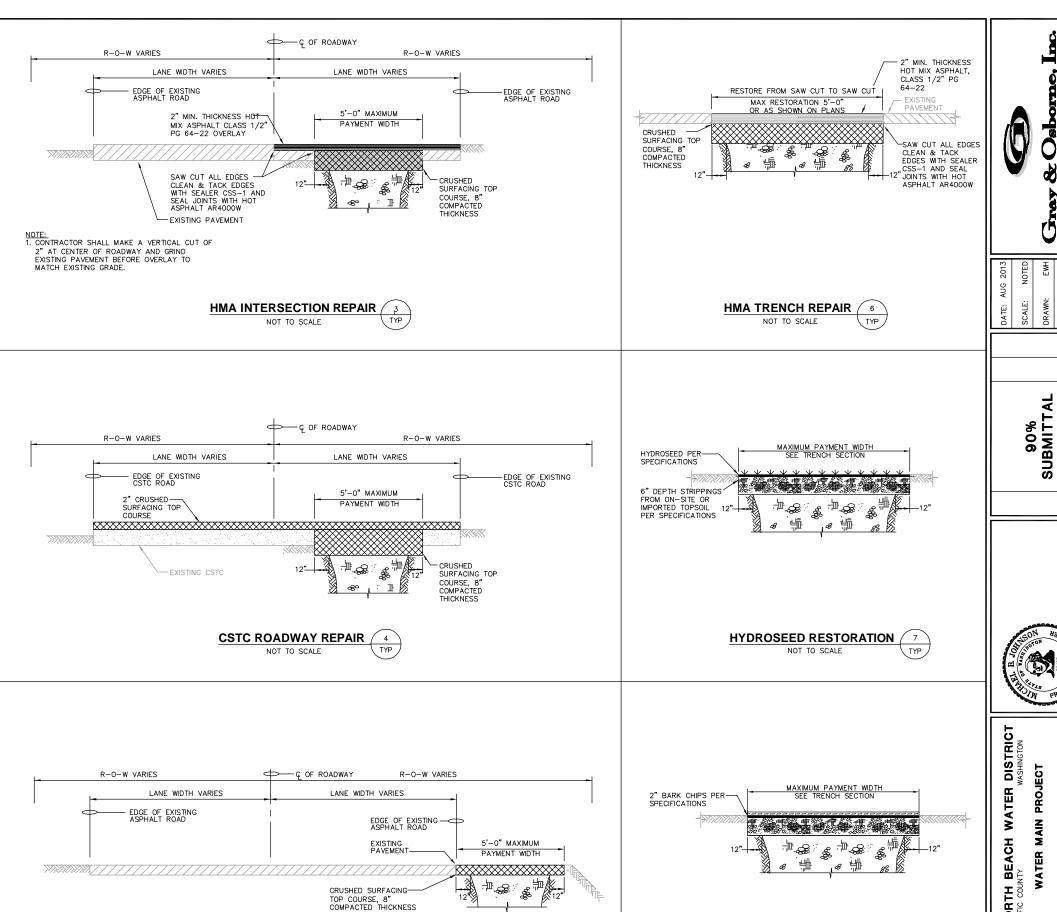
TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

WATER MAIN PROJECT

l	SHEET:	C-10	
l	OF:	14	
	JOB NO.:	13223.00	
I	DWG:	PLAN7	

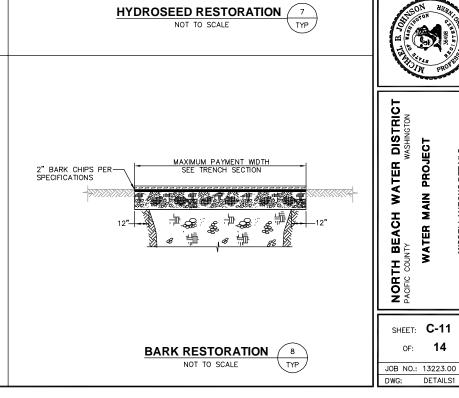






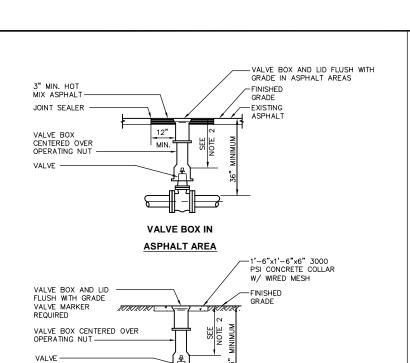
**CSTC SHOULDER REPAIR** 

NOT TO SCALE



14

DETAILS1



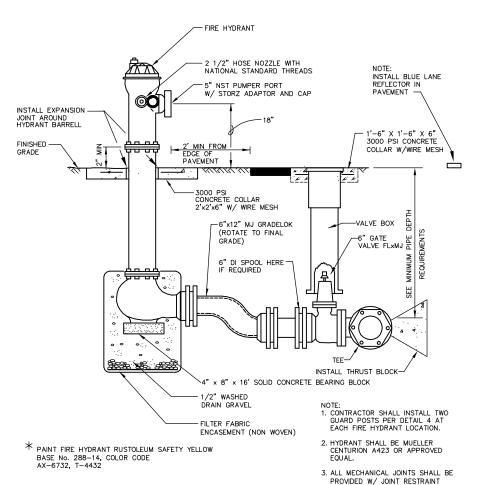
# VALVE BOX IN

# **UNIMPROVED AREA (VALVE MARKER REQUIRED)**

## NOTES:

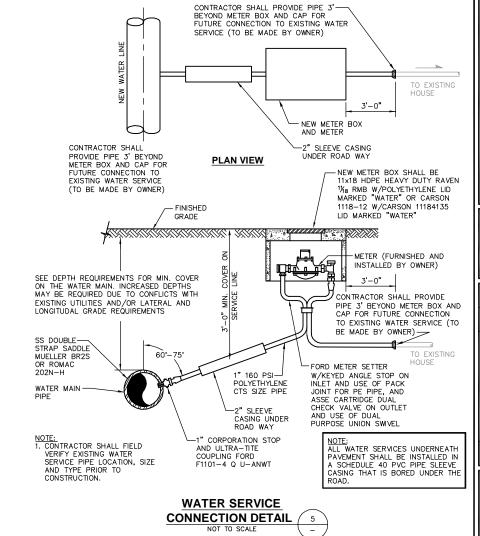
- 1. EACH VALVE SHALL BE PROVIDED WITH AND ADJUSTABLE CAST IRON VALVE BOX OF 5 INCHES (5") INSIDE DIAMETER. VALVE BOXES SHALL HAVE A TOP SECTION WITH AN EIGHTEEN INCH (18") MIN. LENGTH. TI VALVE BOX SHALL BE RICH No. 940 OR SATHER MANUFACTURE, OR EQUAL. VALVE BOX EARS SHALL BE PLACED IN LINE WITH PIPE IT SERVES.
- 2. 18" MINIMUM, 24" MAXIMUM DEPTH TO OPERATOR NUT. PROVIDE VALVE STEM EXTENSION AS REQUIRED.

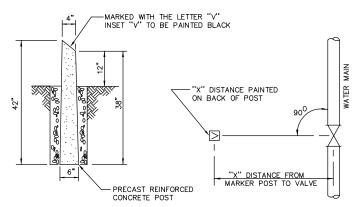




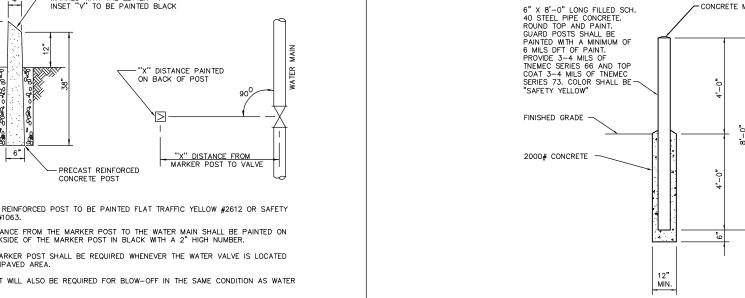
FIRE HYDRANT DETAIL

NOT TO SCALE





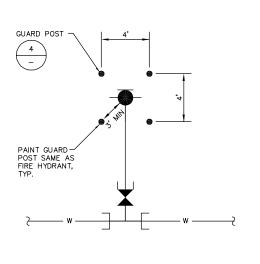
- 1. PRECAST REINFORCED POST TO BE PAINTED FLAT TRAFFIC YELLOW #2612 OR SAFETY
- 2. THE DISTANCE FROM THE MARKER POST TO THE WATER MAIN SHALL BE PAINTED ON THE BACKSIDE OF THE MARKER POST IN BLACK WITH A 2" HIGH NUMBER.
- 3. VALVE MARKER POST SHALL BE REQUIRED WHENEVER THE WATER VALVE IS LOCATED IN AN UNPAVED AREA.
- 4. THE POST WILL ALSO BE REQUIRED FOR BLOW-OFF IN THE SAME CONDITION AS WATER VALVES.





GLANDS (MEGA-LUG, OR EQUAL)

CONCRETE MOUND



NOTE: CONTRACTOR SHALL INSTALL ONLY 2 GUARD POSTS AT EACH LOCATION. SEE SHEET C-1 AND C-2.

HYDRANT LAYOUT NOT TO SCALE



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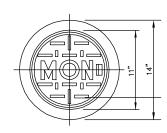


**DISTRICT**WASHINGTON PROJECT WATER M N N BEACH 'ATER NOR1 PACIFIC

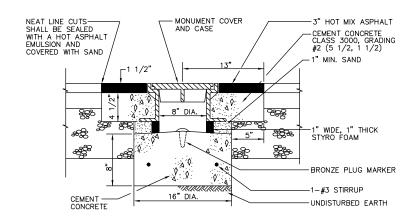
SHEET: **C-12** 

JOB NO.: 13223.00 DETAILS2 DWG:

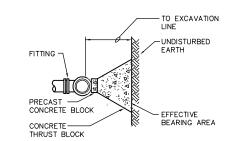




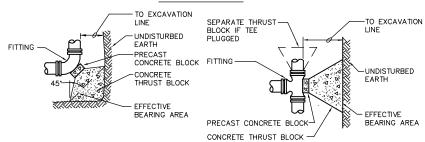
- 1. ALL EXISTING SURVEY MONUMENTS SHALL BE PRESERVED IN ACCORDANCE WITH WAC 332-120. SHOULD A MONUMENT NEED TO BE DISTURBED IN ORDER TO CONSTRUCT THE IMPROVEMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND SHALL NOT DISTURB THE MONUMENT UNTIL THE CONTRACTOR HAS SUBMITTED AN APPLICATION TO THE DEPARTMENT OF NATURAL RESOURCES. ALL MONUMENTS SHALL BE REESTABLISHED PER THIS DETAIL.
- 2. CASTINGS FOR MONUMENT CASES, COVERS, AND RISERS SHALL BE GRAY IRON CASTINGS CONFORMING TO THE REQUIREMENTS OF AASHTO M 105, CLASS 30B.
- 3. THE COVER AND SEAT SHALL BE MACHINED SO AS TO HAVE PERFECT CONTACT AROUND THE ENTIRE CIRCUMFERENCE AND FULL WIDTH OF BEARING SURFACE.







# TYPICAL SECTION



# 90° EL PLAN

# EFFECTIVE BEARING AREA REQUIRED

FITTING D	TEE	90.	45 <b>*</b>	22 1/2	11 1/4
4" & 6"	4 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.	2 SQ.FT.
8"	7 SQ.FT.	10 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.
12"	14 SQ.FT.	22 SQ.FT.	12 SQ.FT.	6 SQ.FT.	4 SQ.FT.

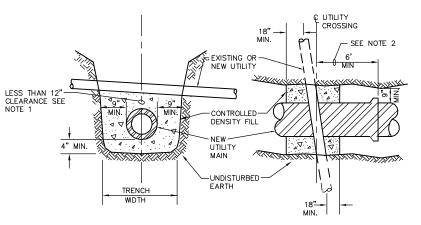
TYPICAL FOR SANDY SOIL WITH 2,000 P.S.F. BEARING STRENGTH & 100 P.S.I. WORKING PRESSURE. ADJUST BEARING AREA BY PRESSURE & SOIL BEARING CAPACITY. USE TEE FOR DEAD ENDS

# NOTES:

1. BLOCKING SHALL BE TO SOLID BEARING SURFACE.

- 2. FITTING SHALL BE PROTECTED WITH A POLYTHLENE ENCASEMENT.
- 3. BEARING AREA SHALL BE PROPORTIONALLY INCREASED WITH PRESSURES IN EXCESS OF 100 P.S.I OR IN SOIL CONDITIONS WITH LESS THAN 2,000 P.S.F BEARING STRENGTH.
- 4. ALL BLOCKS ON TEES SHALL BE SEPARATED FOR DIRECTION OF THRUST.

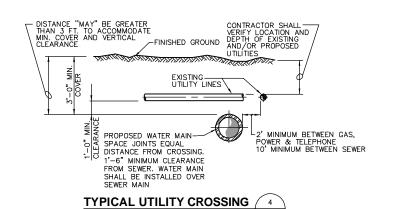




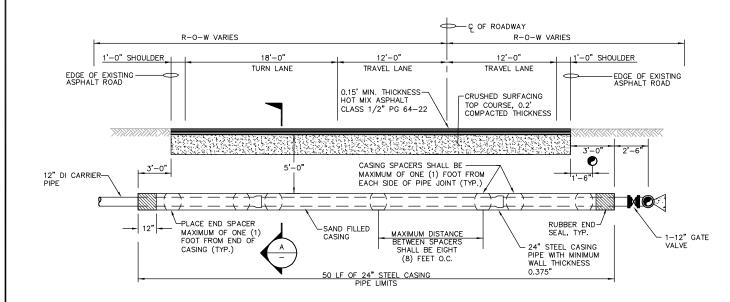
# NOTES:

- CONTRACTOR SHALL PROVIDE CDF PIPE ENCASEMENT AT ALL EXISTING UTILITY CROSSINGS IN THE EVENT THAT A 12" SEPARATION CANNOT BE PROVIDED. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE UTILITIES TO ANTICIPATE PROVIDING AND INSTALLING CDF ENCASEMENTS WHERE
- 2. CONTRACTOR SHALL NOT CONSTRUCT ANY NEW PIPE JOINT WITHIN 6 FEET OF THE EXISTING CENTERLINE OF THE UTILITY CROSSING.





NOT TO SCALE

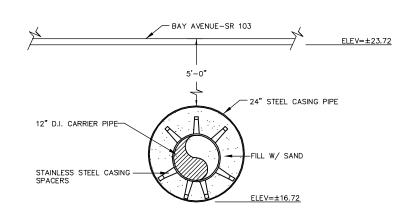


**BAY AVENUE-SR 103** WSDOT ENCASEMENT PIPE

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- 1. CASING SPACERS SHALL BE STANDARD TYPE.
- 2. MINIMUM RUNNER WIDTH SHALL BE 2 INCHES.
- RUNNER HEIGHT SHALL BE SIZED TO PROVIDE:
  A. MINIMUM 0.75" BETWEEN CARRIER PIPE BELL &
- CASING PIPE WALL AT ALL TIMES.

  B. MINIMUM 1" CLEARANCE BETWEEN RUNNERS AND TOP OF CASING WALL TO PREVENT JAMMING DURING INSTALLATION.
- 4. THE CASING PIPE SHALL BE COATED WITH BLACK BITUMINOUS COATING.







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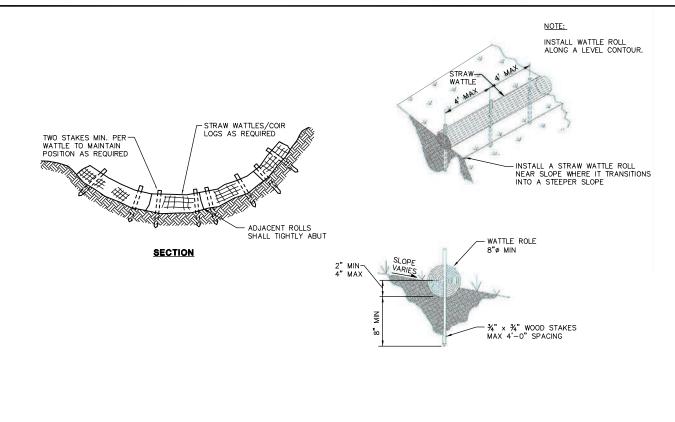
DISTRIC PROJECT WATER M N N BEACH 'ATER NOR1 PACIFIC

JOB NO.: 13223.00 DETAILS1 DWG:

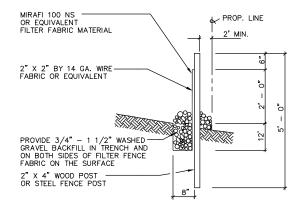
SHEET: C-13

# **EROSION/SEDIMENTATION CONTROL NOTES**

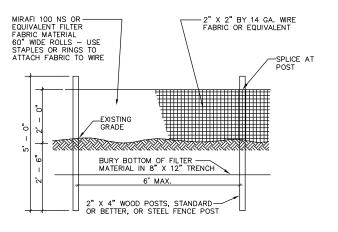
- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION SHALL BE OBSERVED DURING CONSTRUCTION.
- 2. ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND /OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON—SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THE DRAWINGS ARE IDENTIFIED IN THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THE DRAWINGS ARE IDENTIFIED IN SENSITIVE AREAS. NOT ALL EROSION CONTROL MEASURE ARE DEPICTED ON THE DRAWINGS. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE BMPS THROUGHOUT THE ENTIRE WATER MAIN PROJECT. AS CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO INSURE COMPLETE SILTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROVIDE ADDITIONAL PACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROVIDE ADDITIONAL PACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROVIDE ADDITIONAL PACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED. TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
- 4. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. ALL CATCH BASINS, CONVEYANCE LINES AND DITCHES SHALL BE CLEANED PRIOR
- 5. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE COUNTY RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM.
- 6. TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO INSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON—SITE EROSION HAS PASSED.
- ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- 8. NO DISTURBED SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS.











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**DISTRICT**WASHINGTON WATER

PROJECT M N N BEACH 'ATER NOR PACIFIC

SHEET: C-14

TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JOB NO.: 13223.00 DWG: EROSION CONTROL