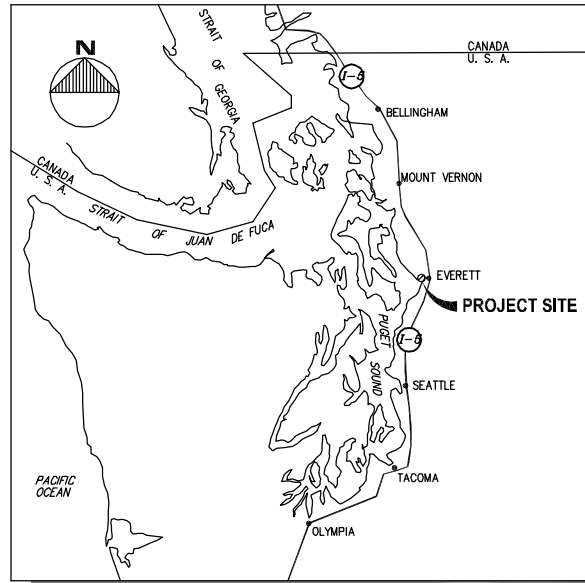


PORT OF EVERETT WATERFRONT PLACE CENTRAL MASTER UTILITY DESIGN



LOCATION MAP

NO SCALE

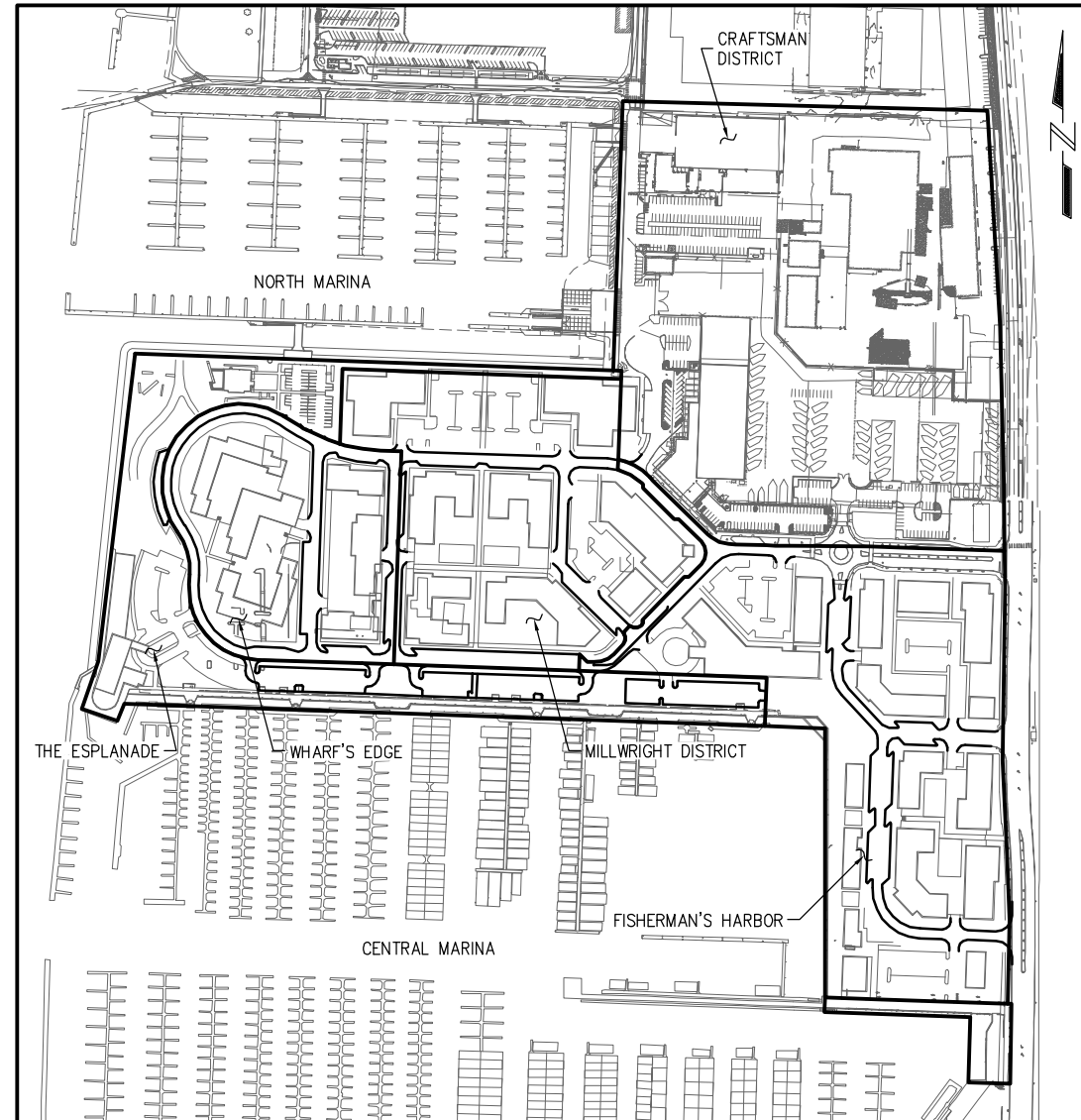
DATUM

ELEVATION DATUM FOR THIS PROJECT IS 0.0' MEAN LOWER LOW WATER (MLLW)

TIDAL DATA

BASED ON NOAA'S PUBLICATION SHEET "WASHINGTON 944-7659", DATED 9/29/1988, THE RELATIONSHIP BETWEEN NGVD 1929 AND MLLW DATUMS FOR EVERETT, POSSESSION SOUND, FOR THE TIDAL EPOCH 1960-1978 IS AS FOLLOWS:

HIGHEST RECORDED TIDE: ESTIMATED (EHW)	+14.35'
MEAN HIGHER HIGH WATER (MHHW)	+11.11'
MEAN HIGH WATER (MHW)	+10.25'
NGVD 1929	+5.93'
MEAN LOW WATER (MLW)	+2.80'
MEAN LOWER LOW WATER (MLLW)	0.00'
LOWEST OBSERVED WATER LEVEL (6/02/77)	-3.60'
EXTREME LOW WATER (ELW)	-4.50'



PROJECT LOCATION

SCALE: NOT TO SCALE

PORT OF EVERETT

PORT COMMISSIONERS

TROY McCLELLAND
GLEN BACHMAN
TOM STIGER

CEO/EXECUTIVE DIRECTOR

LES REARDANZ

CHIEF OF BUSINESS DEVELOPMENT

TERRIE BATTUELLO

CHIEF OF ENGINEERING & PLANNING

JOHN KLEKOTKA, P.E., S.E.

MARINA DIRECTOR

JEFF LINDHOUT

PROJECT MANAGER

BRANDON WHITAKER

DESIGN TEAM

CIVIL/STRUCTURAL ENGINEER

PND ENGINEERS, INC.

ELECTRICAL ENGINEER

HARBOR POWER ENGINEERS, INC.

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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
TITLE SHEET

DWG. NO.	T1.01
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

NO.	DATE	BY	REVISION

K:\2015\154016 - Port of Everett\005.01 - WPC Planning and Design\Utility Design\90% Submittal\154016-G1.01.dwg

SHEET INDEX - UTILITY DESIGN			
DWG NO.	REV. NO.	SHEET NO.	SHEET NAME
TITLE			
T1.01	0	1	TITLE SHEET
GENERAL			
G1.01	0	2	SHEET INDEX
G1.02	0	3	GENERAL SYMBOLS
G1.03	0	4	GENERAL ABBREVIATIONS
G1.04	0	5	SITE PLAN
G1.05	0	6	ALIGNMENT PLAN
G1.06	0	7	DRAINAGE KEY PLAN
G1.07	0	8	SEWER KEY PLAN
G1.08	0	9	WATER SYSTEM KEY PLAN
CIVIL-DRAINAGE			
C1.01	0	10	DRAINAGE PLAN AND PROFILE
C1.02	0	11	DRAINAGE PLAN AND PROFILE
C1.03	0	12	DRAINAGE PLAN AND PROFILE
C1.04	0	13	DRAINAGE PLAN AND PROFILE
C1.05	0	14	DRAINAGE PLAN AND PROFILE
C1.06	0	15	DRAINAGE PLAN AND PROFILE
C1.07	0	16	DRAINAGE PLAN AND PROFILE
C1.08	0	17	DRAINAGE PLAN AND PROFILE
C1.09	0	18	DRAINAGE PLAN AND PROFILE
C1.10	0	19	DRAINAGE PLAN AND PROFILE
C1.11	0	20	DRAINAGE PLAN AND PROFILE
C1.12	0	21	DRAINAGE PLAN AND PROFILE
C1.13	0	22	DRAINAGE PLAN AND PROFILE
C1.14	0	23	DRAINAGE PLAN AND PROFILE
C1.15	0	24	DRAINAGE PLAN AND PROFILE
C1.16	0	25	DRAINAGE PLAN AND PROFILE
C1.17	0	26	FISHERMAN'S A STORM TREATMENT
C1.18	0	27	FISHERMAN'S B STORM TREATMENT
C1.19	0	28	MILLWRIGHT SOUTH STORM TREATMENT
C1.20	0	29	MILLWRIGHT NORTH STORM TREATMENT
C1.21	0	30	WOONERF SOUTH STORM TREATMENT
C1.22	0	31	WOONERF NORTH STORM TREATMENT
C1.23	0	32	WHARF'S EDGE STORM TREATMENT
C1.24	0	33	DRAINAGE STRUCTURE TABLES
C1.25	0	34	DRAINAGE DETAILS
CIVIL-SEWER			
C2.01	0	35	SEWER PLAN AND PROFILE
C2.02	0	36	SEWER PLAN AND PROFILE
C2.03	0	37	SEWER PLAN AND PROFILE
C2.04	0	38	SEWER PLAN AND PROFILE
C2.05	0	39	SEWER PLAN AND PROFILE
C2.06	0	40	SEWER PLAN AND PROFILE
C2.07	0	41	SEWER PLAN AND PROFILE
C2.08	0	42	SEWER PLAN AND PROFILE
C2.09	0	43	SEWER PLAN AND PROFILE
C2.10	0	44	SEWER PLAN AND PROFILE
C2.11	0	45	SEWER PLAN AND PROFILE
C2.12	0	46	SEWER PLAN AND PROFILE
C2.13	0	47	SEWER PLAN AND PROFILE
C2.14	0	48	SEWER PLAN AND PROFILE
C2.15	0	49	SEWER PUMP STATION DETAILS

SHEET INDEX - UTILITY DESIGN			
DWG NO.	REV. NO.	SHEET NO.	SHEET NAME
CIVIL-WATER			
C3.01	0	50	WATER SYSTEM PLAN
C3.02	0	51	WATER SYSTEM PLAN
C3.03	0	52	WATER SYSTEM PLAN
C3.04	0	53	WATER SYSTEM PLAN
C3.05	0	54	WATER SYSTEM PLAN
C3.06	0	55	WATER SYSTEM PLAN
C3.07	0	56	WATER SYSTEM PLAN
C3.08	0	57	WATER SYSTEM PLAN
C3.09	0	58	WATER SYSTEM PLAN
C3.10	0	59	WATER SYSTEM PLAN
C3.11	0	60	WATER SYSTEM PLAN
C3.12	0	61	WATER SYSTEM PLAN
C3.13	0	62	WATER SYSTEM PLAN
C3.14	0	63	WATER SYSTEM PLAN
C3.15	0	64	WATER SYSTEM PLAN
C3.16	0	65	WATER SYSTEM PLAN

NOTE: SEE SHEET E0.1 FOR ELECTRICAL SHEET INDEX.

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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
SHEET INDEX

DWG. NO.	G1.01
CIP NO.	--
PROJECT NO.	--
SHEET NO.	2 OF

CIVIL SYMBOLS

STRUCTURAL SYMBOLS

SYMBOL		DESCRIPTION (ABBR)
THEOR./EXIST.	FOUND/PROP.	
<p>SH-DATUM</p> <p>SCALE IN FEET</p>		

SYMBOL	DESCRIPTION (ABBR)	SYMBOL	DESCRIPTION (ABBR)
EXIST.	PROP.	PROP.	PROP.

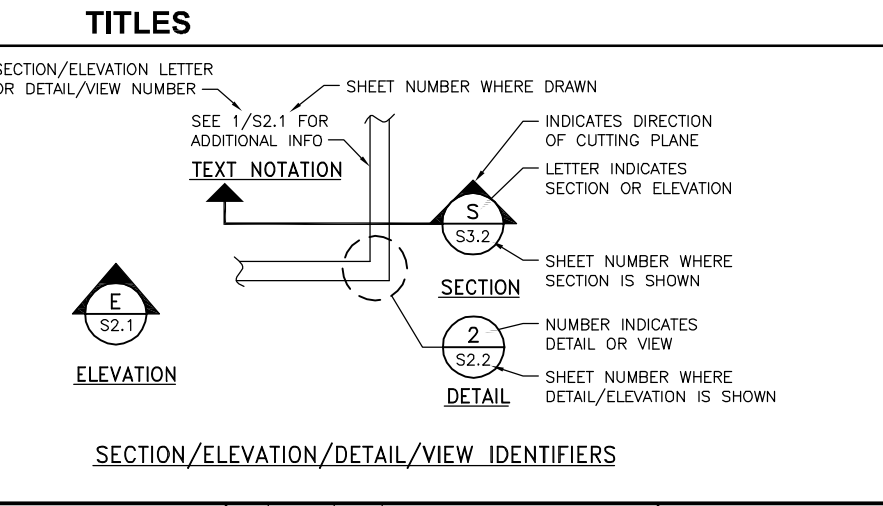
SYMBOL	DESCRIPTION
EXIST.	PROP.
CHANNELIZATION	

SYMBOL	DESCRIPTION

SYMBOL	DESCRIPTION

TITLES	TEXT
<p>PLAN TITLE SCALE: 1/8" = 1'-0"</p> <p>SECTION/ELEVATION TITLE SCALE: 3/4" = 1'-0"</p> <p>DETAIL/VIEW TITLE SCALE: 3/4" = 1'-0"</p> <p>SECTION/ELEVATION/DETAIL/VIEW LABELS</p>	<p>PHASE, DIAMETER AND FEET, MINUTES INCHES, SECONDS DEGREE AT CENTERLINE PLATE NUMBER PERCENT</p> <p>Ø & @ # %</p>

STEEL	FASTENERS
<p>BEAM/GIRDER</p> <p>STEEL IN CROSS SECTION</p>	<p>PLAN SECTION</p> <p>CONCRETE ANCHOR BOLT</p> <p>DRILLED IN CONCRETE ANCHOR</p> <p>BOLT</p> <p>NAIL</p>



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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
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PORT OF EVERETT

WATERFRONT PLACE CENTRAL MASTER UTILITY DESIGN GENERAL SYMBOLS

DWG. NO.	G1.02
CIP NO.	--
PROJECT NO.	--
SHEET NO.	3 OF

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ABBREVIATIONS

<p>AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS AB ANCHOR BOLT ABANDONED ABANDONED ABUT ABUTMENT AC ASPHALT CONCRETE ACI AMERICAN CONCRETE INSTITUTE ADDL ADDITIONAL ADJ ADJUST, ADJACENT AFF ABOVE FINISHED FLOOR AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISI AMERICAN IRON AND STEEL INSTITUTE ALIGN ALIGNMENT ALUM ALUMINUM ALT ALTERNATE ANCH ANCHOR AP ANGLE POINT APA AMERICAN PLYWOOD ASSOCIATION APPROX APPROXIMATE APWA AMERICAN PUBLIC WORKS ASSOCIATION AR ANCHOR ROD ARCH ARCHITECT, ARCHITECTURAL ARV AIR RELIEF VALVE ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS ASPH ASPHALT ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS ASSY ASSEMBLY AVE AVENUE AVG AVERAGE AWS AMERICAN WELDING SOCIETY</p>	<p>d PENNYWEIGHT (NAILS) DB DIVIDER BEAM OR DRAIN BASIN DBA DEFORMED BAR ANCHOR DBL DOUBLE DDCV DOUBLE DETECTOR CHECK VAVLE DEMO DEMOLISH, DEMOLITION DEG DEGREE DET DETAIL DF DOUGLAS FIR DFL DOUGLAS FIR-LARCH DI DUCTILE IRON DIP DUCTILE IRON PIPE DIA DIAMETER DIAG DIAGONAL DIAPH DIAPHRAGM DICA DRILLED-IN CONCRETE ANCHOR DIM DIMENSION DL DEAD LOAD DN DOWN DO DITTO DP DEEP DS DOWN SPOUT D/W DRIVEWAY DWG(S) DRAWING(S) DWL DOWEL</p>	<p>E EAST EA EACH EE EACH END EF EACH FACE EHW EXTREME HIGH WATER EJ EXPANSION JOINT EL, ELEV ELEVATION, ELEVATOR ELB ELBOW ELEC ELECTRICAL EMB EMBANKMENT EMBED EMBEDMENT ENGR ENGINEER EOA EDGE OF ASPHALT EOC EDGE OF CONCRETE EOD EDGE OF DIRT EOG EDGE OF GRAVEL EP EDGE OF PAVEMENT EQ EQUAL, EARTHQUAKE EQUIP EQUIPMENT ER ELECTRICAL RISER ES EACH SIDE ETC ETCETERA EW EACH WAY EXC EXCAVATION EXIST EXISTING EXP EXPANSION EXT EXTERIOR, EXTENSION, EXTRUDED EVT EVERETT E-W EAST-WEST</p>	<p>H HEIGHT HDCP HANDICAP HDG HOT DIPPED GALV HDPE HIGH DENSITY POLYETHYLENE HF HEM-FIR HGR HANGER HK HOOK HMA HOT MIX ASPHALT HORIZ HORIZONTAL HP HIGH POINT HSB HIGH STRENGTH BOLT HSE HOUSE HSS HOLLOW STRUCTURAL SECTION HT HEIGHT</p>	<p>OC ON CENTER OD OUTSIDE DIAMETER OE OVERHEAD ELECTRIC OHW ORDINARY HIGH WATER OF OUTSIDE FACE OPNG OPENING OPP OPPOSITE OSH OVERSIZED HOLE OT OVERHEAD TELEPHONE OWJ OPEN WEB JOIST</p>	<p>T/ TOP OF T&B TOP AND BOTTOM T&G TONGUE AND GROOVE TB THRUST BLOCK TAN TANGENT T&B TOP & BOTTOM TBM TEMPORARY BENCH MARK TD TRENCH DRAIN TEL TELEPHONE TEMP TEMPORARY, TEMPERATURE THK THICK, THICKNESS THRU THROUGH TMH TELEPHONE MANHOLE TOA TOP OF ASPHALT TOC TOP OF CURB OR TOP OF CONCRETE TOE CONCAVE SLOPE BREAK TOF TOP OF FOOTING TOP CONVEX SLOPE BREAK TOPO TOPOGRAPHY TOS TOP OF STEEL TOT TOTAL TOW TOP OF WALL TP TEST PIT TRAN TRANSITION TRANSV TRANSVERSE TR TELEPHONE RISER, THREADED ROD TUN TUNNEL TV TELEVISION TWS THREADED WELDED STUD TWST TWISTED TYP TYPICAL</p>		
<p>B/ BOTTOM OF BAL BALANCE BF BRACED FRAME BGS BENEATH GROUND SURFACE BLDG BUILDING BLKG BLOCK, BLOCKING BLVD BOULEVARD BOC BACK OF CURB BOW BACK OF WALK BOL BOLLARD BM BEAM, BENCH MARK BNSF BURLINGTON NORTHERN SANTA FE BSMT BASEMENT BOT BOTTOM BRDG BRIDGE BRG BEARING BRK BREAK BTWN BETWEEN BU BUILT-UP</p>	<p>E EACH EE EACH END EF EACH FACE EHW EXTREME HIGH WATER EJ EXPANSION JOINT EL, ELEV ELEVATION, ELEVATOR ELB ELBOW ELEC ELECTRICAL EMB EMBANKMENT EMBED EMBEDMENT ENGR ENGINEER EOA EDGE OF ASPHALT EOC EDGE OF CONCRETE EOD EDGE OF DIRT EOG EDGE OF GRAVEL EP EDGE OF PAVEMENT EQ EQUAL, EARTHQUAKE EQUIP EQUIPMENT ER ELECTRICAL RISER ES EACH SIDE ETC ETCETERA EW EACH WAY EXC EXCAVATION EXIST EXISTING EXP EXPANSION EXT EXTERIOR, EXTENSION, EXTRUDED EVT EVERETT E-W EAST-WEST</p>	<p>K KIP (1,000 LB) KSF KIPS PER SQUARE FOOT KSI KIPS PER SQUARE INCH</p>	<p>L LENGTH, ANGLE LB FOOT POUNDS LBS POUNDS LEV LEVEL LF LINEAL FOOT/FEET LL LIVE LOAD LLBB LONG LEGS BACK TO BACK LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LOC LOCATION, LOCATE LONGIT LONGITUDINAL LP LOW POINT LSH LONG SLOTTED HOLE LSL LAMINATED STRAND LUMBER LT LEFT LUMIN LUMINAIRE LVL LAMINATED VENEER LUMBER</p>	<p>PAR POLE, POWER PARALLEL PARALLEL PC PRECAST, PIECE PCF POUNDS PER CUBIC FOOT PEN PENETRATION PED PEDESTRIAN PERP PERPENDICULAR PI POINT OF INTERSECTION PJP, PP PARTIAL JOINT PENETRATION PLCS PLACES PLF POUNDS PER LINEAR FOOT PLWD PLYWOOD PNL PANEL POC POINT OF CONNECTION PREFAB PREFABRICATED PRV PRESSURE REDUCING VALVE PS PRESTRESS PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSS PRESSURE SANITARY SEWER PT POINT OF TANGENT, POINT, PRESSURE TREATED PUD PUBLIC UTILITY DISTRICT #1 OF SNOHOMISH CNTY PSL PARALLEL STRAND LUMBER P-T POST-TENSIONED PVC POLYVINYL CHLORIDE PVMT PAVEMENT P/L PROPERTY LINE</p>	<p>QTY QUANTITY</p>		
<p>C CAMBER, CHANNEL CAL CALIPER CANT CANTILEVER CAP CAPACITY CB CATCH BASIN CB1 CATCH BASIN TYPE 1 CB2 CATCH BASIN TYPE 2 CC CENTER-TO-CENTER CDF CONTROL DENSITY FILL CF CUBIC FEET, COLD-FORMED CG CURB & GUTTER COG CENTER OF GRAVITY CI CAST IRON CICL CAST IRON CONCRETE LINED CIP CAST IN PLACE CJ CONTROL JOINT, CONSTRUCTION JOINT CJP, CP COMPLETE JOINT PENETRATION CLF CHAIN LINK FENCE CLG CEILING CLR CLEAR(ANCE) CMP CORRUGATED METAL PIPE CMU CONC MASONRY UNIT CNTY COUNTY CO CLEAN OUT COE CITY OF EVERETT COL COLUMN COM COMMON CONC CONCRETE CONN CONNECT, CONNECTION CONST CONSTRUCT, CONSTRUCTION CONT CONTINUED, CONTINOUS CONTR CONTRACTOR COORD COORDINATE CP COMPLETE PENETRATION CRSI CONCRETE REINFORCED STEEL INSTITUTE CSBC CRUSHED SURFACING BASE COURSE CSTC CRUSHED SURFACING TOP COURSE CTR CENTER, CENTERED CU CUBIC CULV CULVERT CW COLD WATER CY CUBIC YARD CYL CYLINDER</p>	<p>FD FLOOR DRAIN FDN FOUNDATION FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY FF FAR FACE, FINISH FLOOR FL FLANGE FG FINISH GRADE FH FIRE HYDRANT FIG FIGURE FIN FINISH, FINISHED FLG FLANGE FLR FLOOR FM FORCE MAIN FNC FENCE FOC FACE OF CURB FOW FACE OF WALL FS FAR SIDE FT FEET/FOOT FTG FOOTING</p>	<p>M METER MATL MATERIAL MAX MAXIMUM MB MAILBOX, MACHINE BOLT MECH MECHANICAL MF MOMENT FRAME MFR(S) MANUFACTURER(S) MH MANHOLE MHW MEAN HIGH WATER MHHW MEAN HIGHER HIGH WATER MIC MONUMENT IN CASE MIN MINIMUM MISC MISCELLANEOUS MJ MECHANICAL JOINT MLW MEAN LOW WATER MLLW MEAN LOWER LOW WATER M/L MONUMENT LINE MPH MILES PER HOUR MON MONUMENT MTL METAL MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES</p>	<p>R, RAD RADIUS RC REINF CONC RD ROOF DRAIN REF REFERENCE REINF REINFORCE(D)(MENT)(ING) REM REMAINDER REQD REQUIRED RET RETAINING RETW RETAINING WALL RMC RIGID METAL CD RND ROUND RO ROUGH OPENING RR RAILROAD RT RIGHT RTN RETURN R/W RIGHT OF WAY</p>	<p>S SOUTH, SLOPE SB SOIL BORING SC SLIP CRITICAL SCHED SCHEDULE SD STORM DRAIN SDMH STORM DRAIN MANHOLE SE SPOT ELEVATION, SOUTHEAST SECT SECTION SERV SERVICE SF SQUARE FEET SHLDR SHOULDER SHT SHEET SIM SIMILAR SJI STEEL JOIST INSTITUTE S/L SURVEY LINE SOG SLAB ON GRADE SPC SPACE(ED)(ING) SPEC(S) SPECIFICATION(S) SQ SQUARE SS SANITARY SEWER, STAINLESS STEEL SSH SHORT SLOTTED HOLE SSMH SANITARY SEWER MANHOLE ST STREET STA STATION STAG STAGGER, STAGGERED STD STANDARD STIF STIFFENER STIR STIRRUP STPS STEPS STL STEEL STRUC STRUCTURAL SUPP SUPPORT SW SOUTHWEST, SHEAR WALL, SOUTHWEST S/W SIDEWALK SYM SYMMETRICAL, SYMBOL</p>	<p>UBC UNIFORM BUILDING CODE UHMW ULTRA HIGH MOLECULAR WEIGHT UG UNDERGROUND UNO UNLESS NOTED OTHERWISE UP UTILITY POLE UPA UTILITY POLE ANCHOR UTIL UTILITY</p>	<p>V VALVE VAR VARIES VERT VERTICAL VLT VAULT</p>	<p>W WIDTH, WATER LINE, WEST, WIDE FLANGE W/ WITH W/O WITHOUT WD WOOD(EN) WHS WELDED HEADED STUD WHSE WAREHOUSE WL BUTT FUSION WELD WM WATER METER, WATERMAIN WP WORK POINT WT WEIGHT WV WATER VALVE WWF WELDED WIRE FABRIC YD YARD DRAIN</p>

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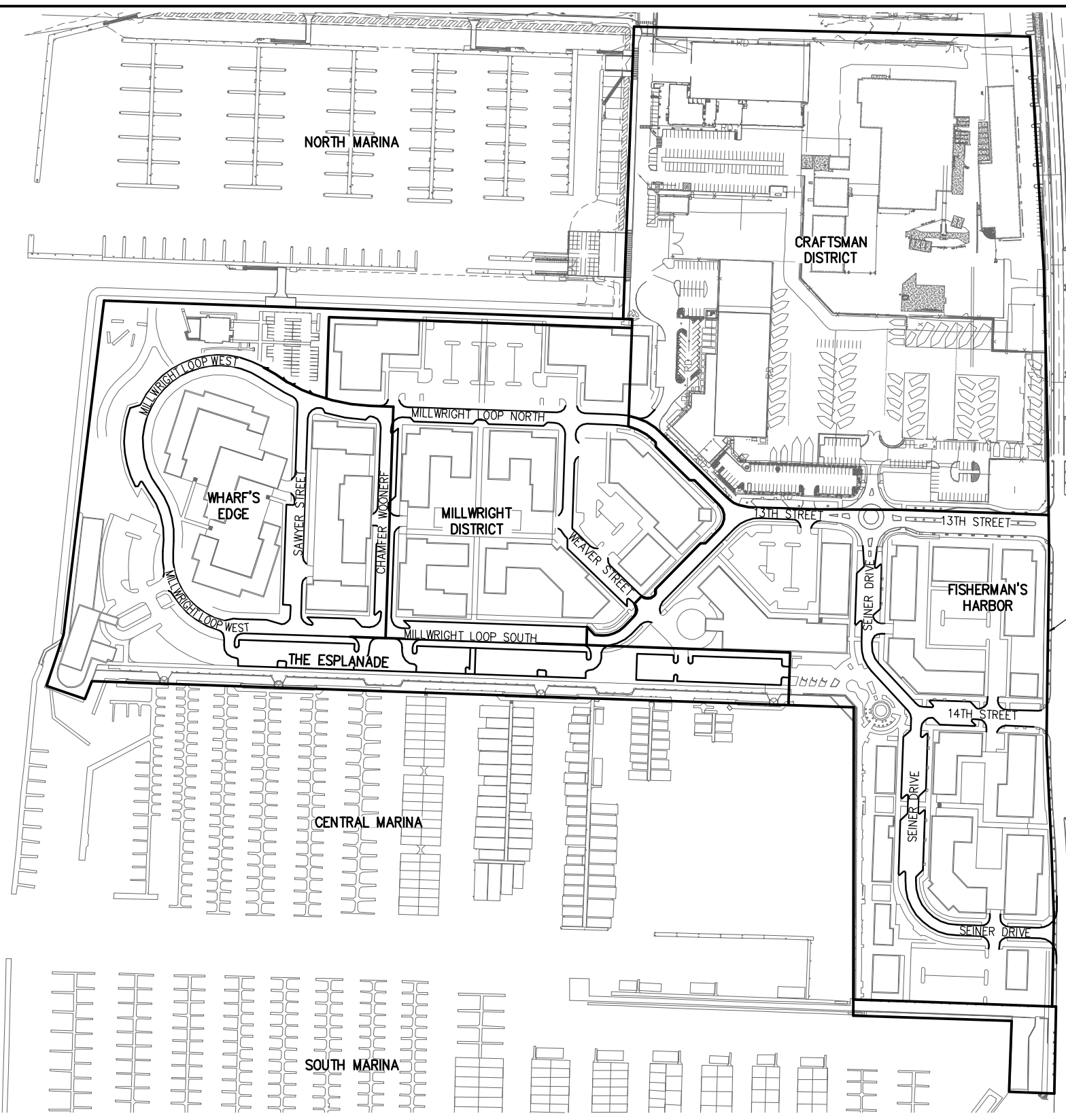
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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

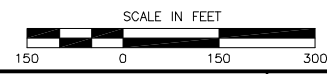
PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
GENERAL ABBREVIATIONS

DWG. NO. G1.03	CIP NO. --
PROJECT NO. --	SHEET NO. 4 OF

NO.	DATE	BY	REVISION



SITE PLAN



LIMITS OF WORK

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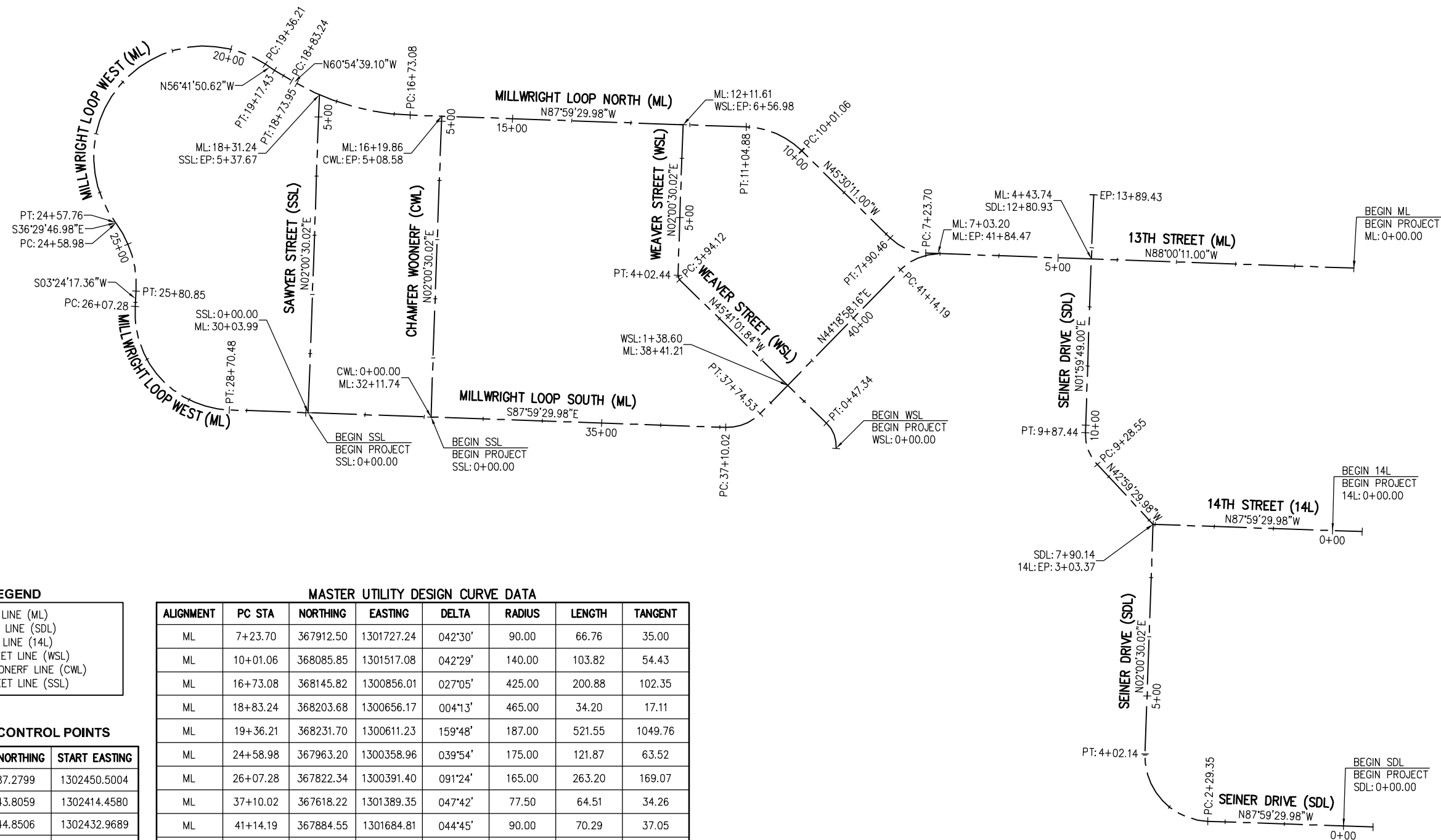
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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
SITE PLAN

DWG. NO.	G1.04
CIP NO.	--
PROJECT NO.	--
SHEET NO.	5 OF



LEGEND

1. WPC - MAIN LINE (ML)
2. SEINER DRIVE LINE (SDL)
3. 14TH STREET LINE (14L)
4. WEAVER STREET LINE (WSL)
5. CHAMFER WOONERF LINE (CWL)
6. SAWYER STREET LINE (SSL)

ALIGNMENT CONTROL POINTS

STA	START NORTHING	START EASTING
ML: 0+00.0	367887.2799	1302450.5004
14L: 0+00.0	367443.8059	1302414.4580
SDL: 0+00.0	366944.8506	1302432.9689
WSL: 0+00.0	367582.6515	1301575.8671
CWL: 0+00.0	367635.6857	1300891.3740
SSL: 0+00.0	367642.9663	1300683.7516

MASTER UTILITY DESIGN CURVE DATA

ALIGNMENT	PC STA	NORTHING	EASTING	DELTA	RADIUS	LENGTH	TANGENT
ML	7+23.70	367912.50	1301727.24	042°30'	90.00	66.76	35.00
ML	10+01.06	368085.85	1301517.08	042°29'	140.00	103.82	54.43
ML	16+73.08	368145.82	1300856.01	027°05'	425.00	200.88	102.35
ML	18+83.24	368203.68	1300656.17	004°13'	465.00	34.20	17.11
ML	19+36.21	368231.70	1300611.23	159°48'	187.00	521.55	1049.76
ML	24+58.98	367963.20	1300358.96	039°54'	175.00	121.87	63.52
ML	26+07.28	367822.34	1300391.40	091°24'	165.00	263.20	169.07
ML	37+10.02	367618.22	1301389.35	047°42'	77.50	64.51	34.26
ML	41+14.19	367884.55	1301684.81	044°45'	90.00	70.29	37.05
WSL	0+00.00	367582.65	1301575.87	049°19'	55.00	47.34	25.25
WSL	3+94.12	367867.75	1301311.28	047°42'	10.00	8.32	4.42
SDL	2+29.35	366952.89	1302203.76	090°00'	110.00	172.79	110.00
SDL	9+28.55	367555.68	1302016.90	044°59'	75.00	58.89	31.06

ALIGNMENT PLAN

SCALE: 1"=100'

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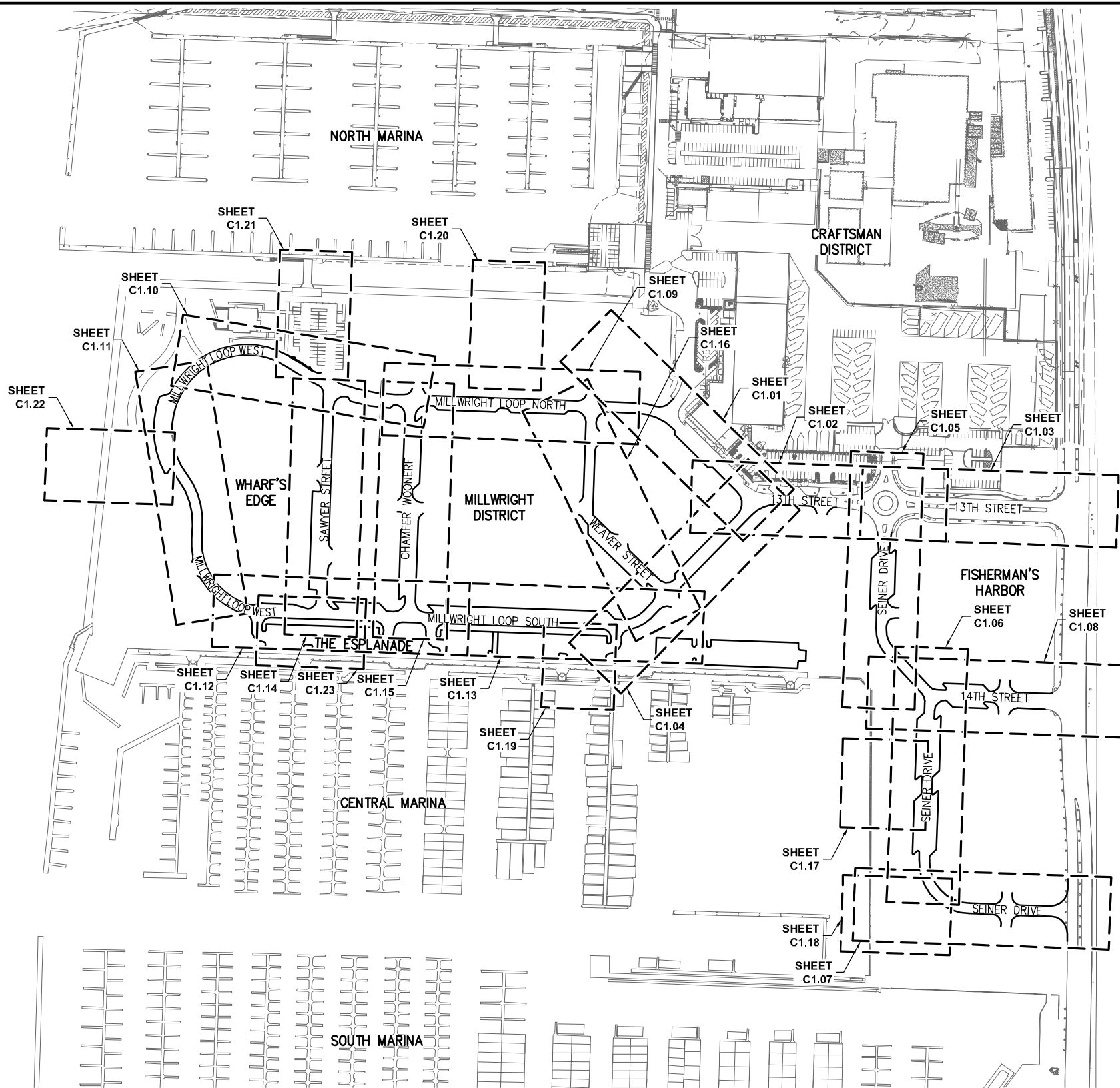
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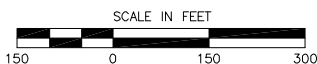
PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
ALIGNMENT PLAN

DWG. NO.	G1.05
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SHEET NO.	6 OF



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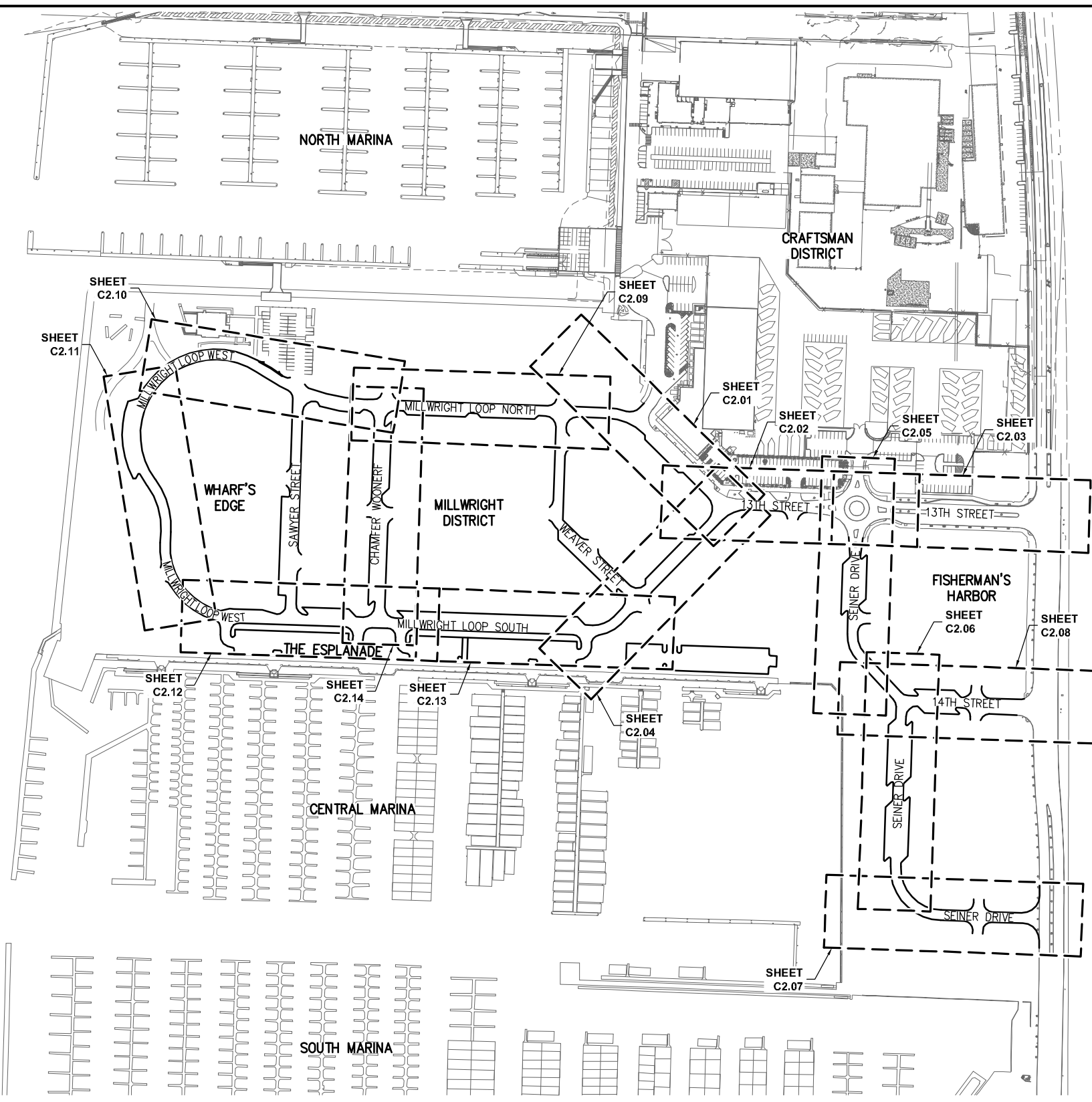
PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
DRAINAGE KEY PLAN

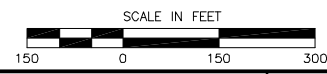
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CIP NO.	--
PROJECT NO.	--
SHEET NO.	7 OF

NO.	DATE	BY	REVISION

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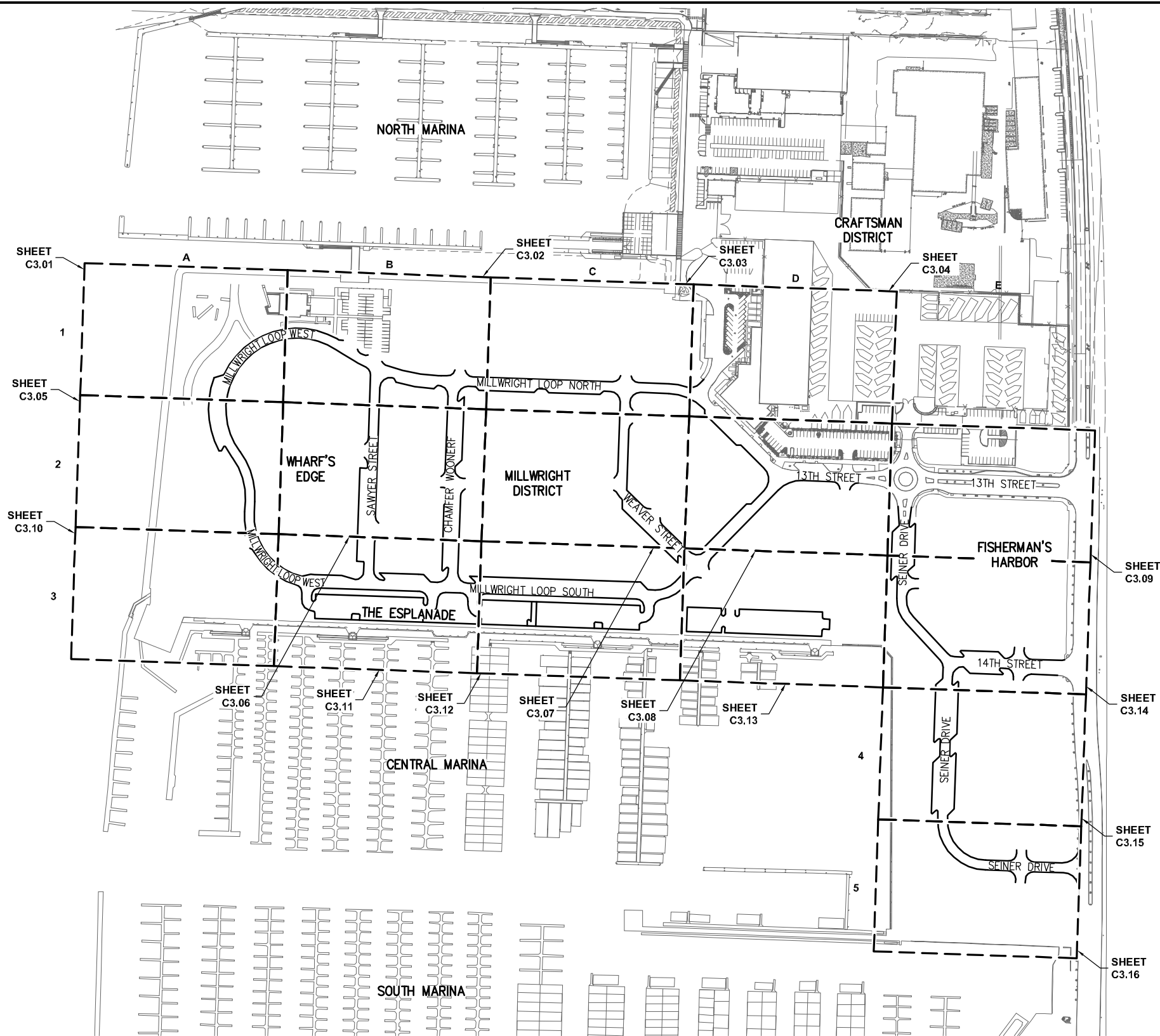
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

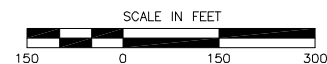
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MASTER UTILITY DESIGN
SEWER KEY PLAN

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PROJECT NO.	--
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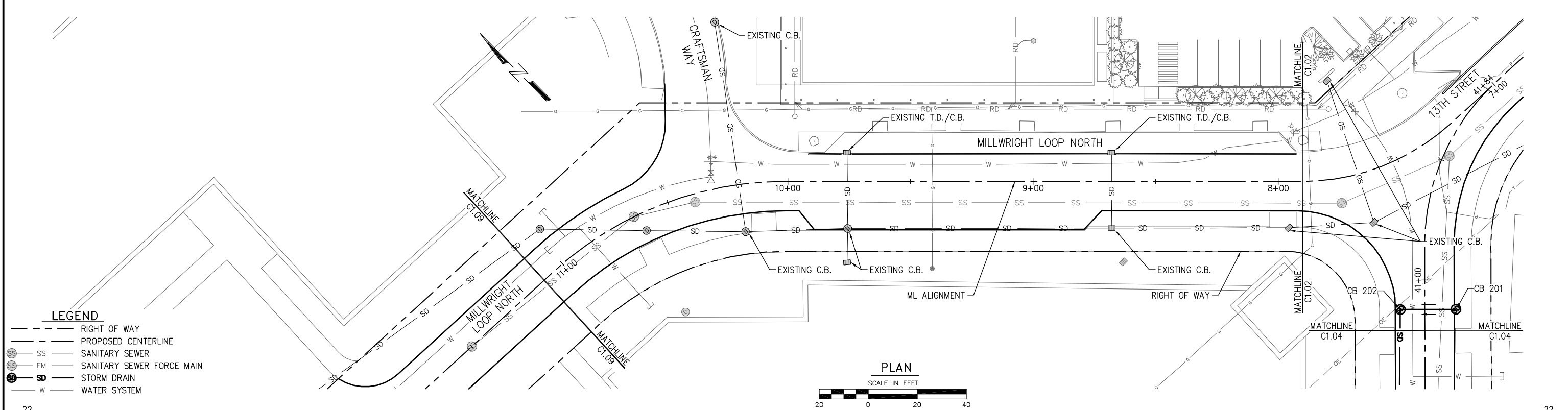
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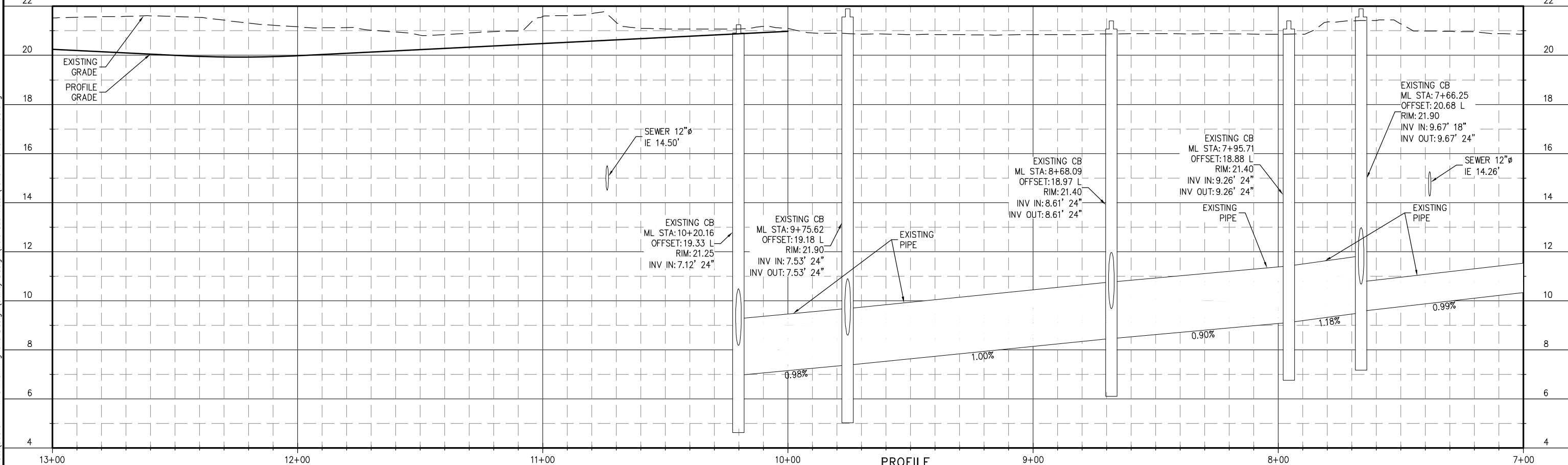
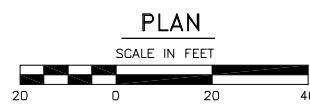
PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
WATER SYSTEM KEY PLAN

DWG. NO.	G1.08
CIP NO.	--
PROJECT NO.	--
SHEET NO.	9 OF



- LEGEND**
- RIGHT OF WAY
 - - - PROPOSED CENTERLINE
 - SS SANITARY SEWER
 - FM SANITARY SEWER FORCE MAIN
 - SD STORM DRAIN
 - W WATER SYSTEM



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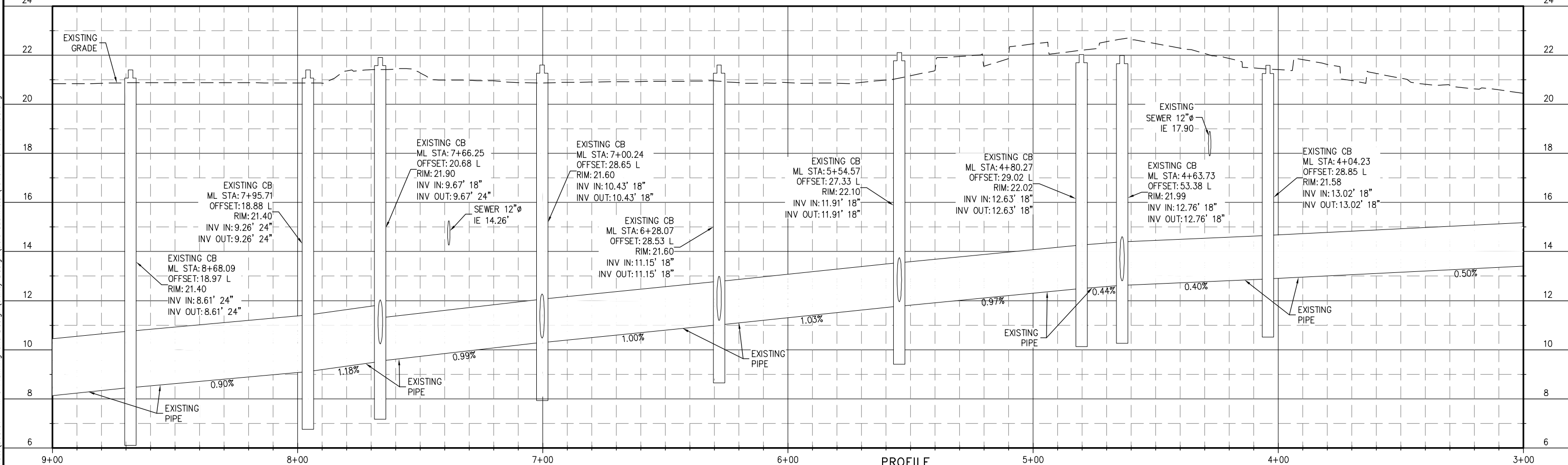
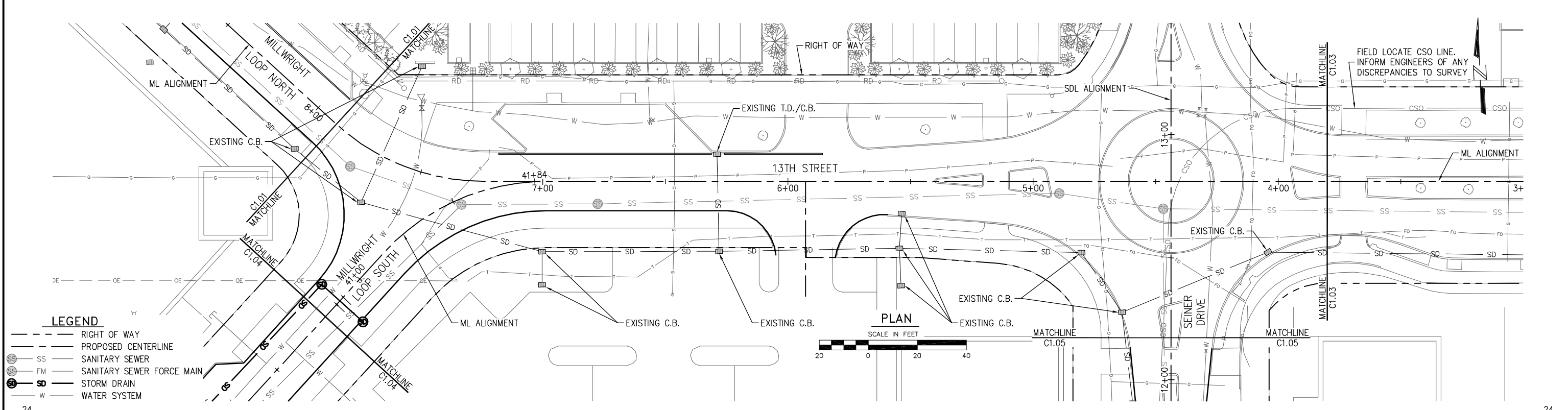
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: M. O'CONNOR	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: C. WEST
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.01
CIP NO.	--
PROJECT NO.	--
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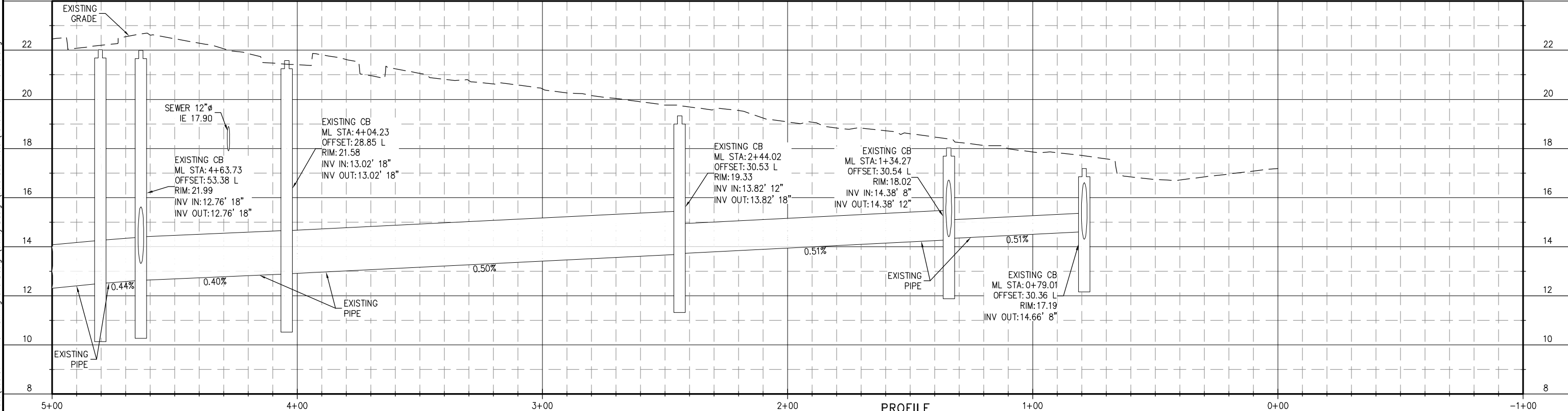
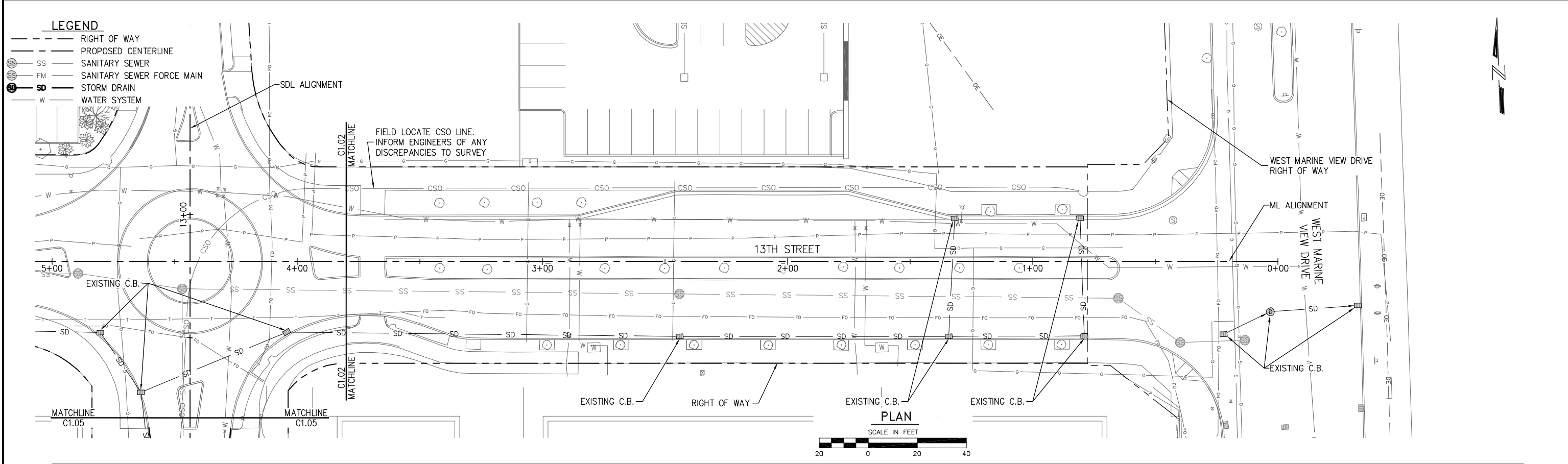
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
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CIP NO.	--
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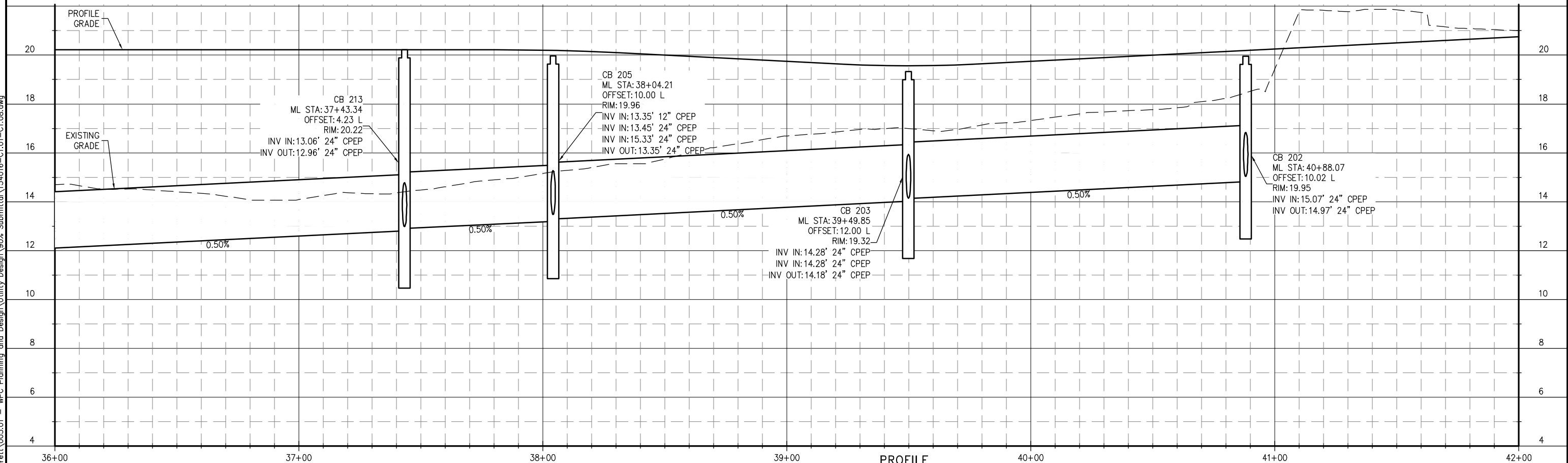
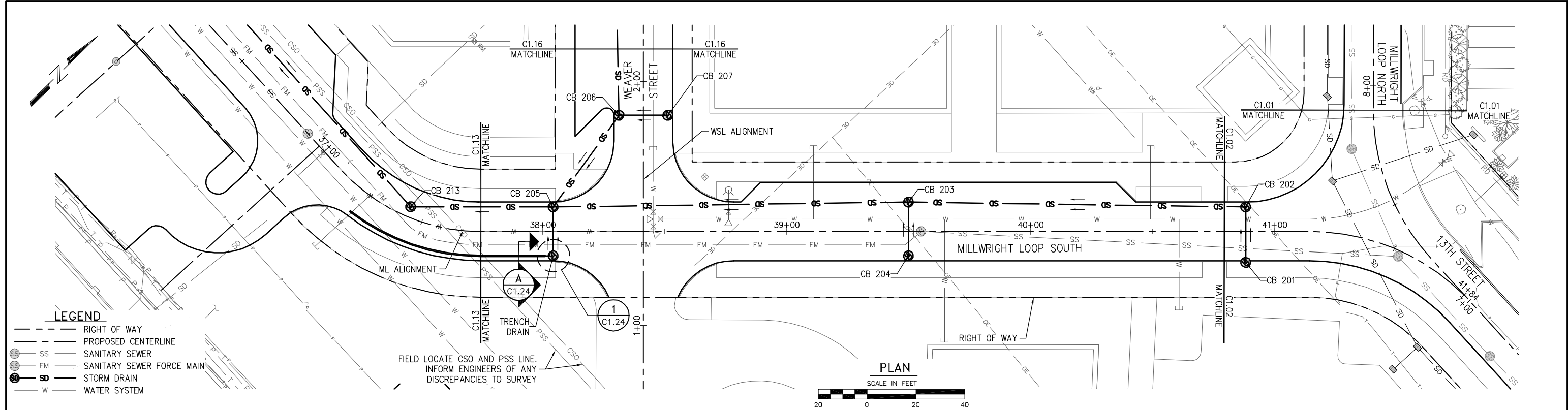
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PROJECT NO.	--
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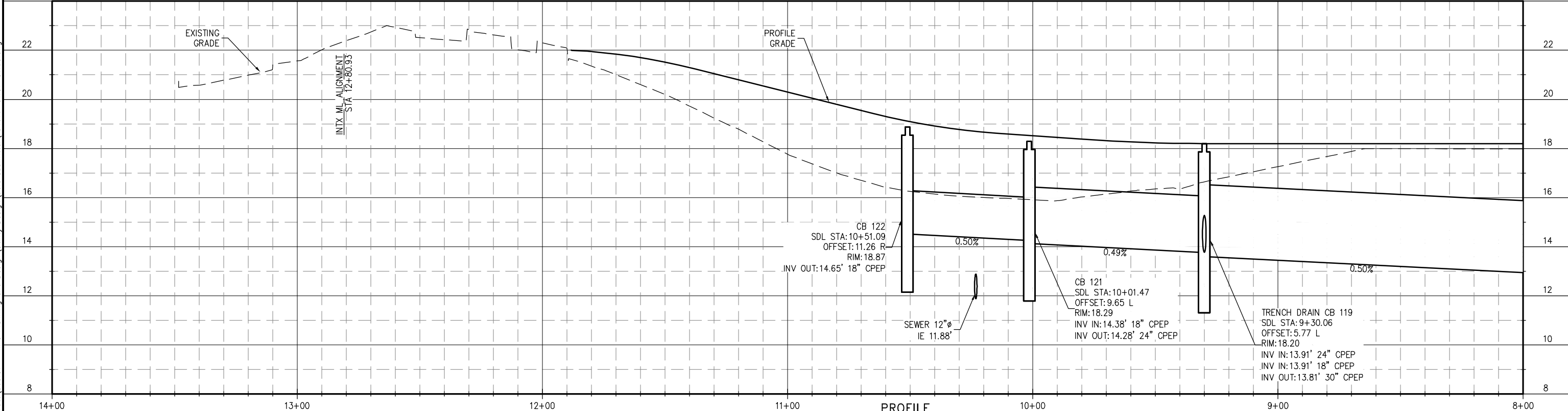
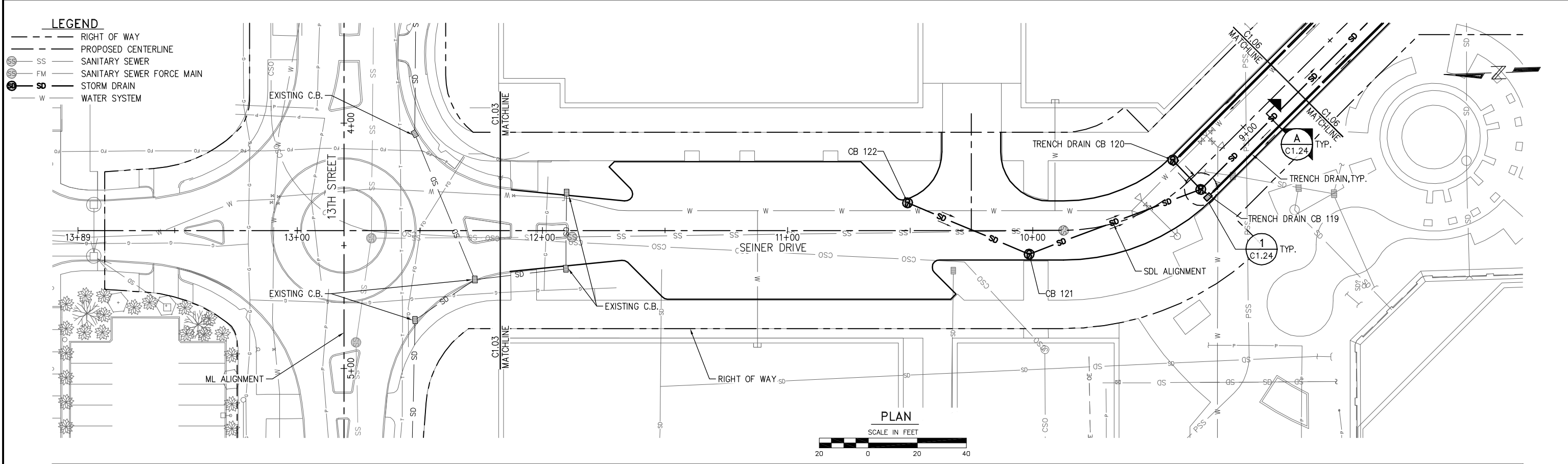
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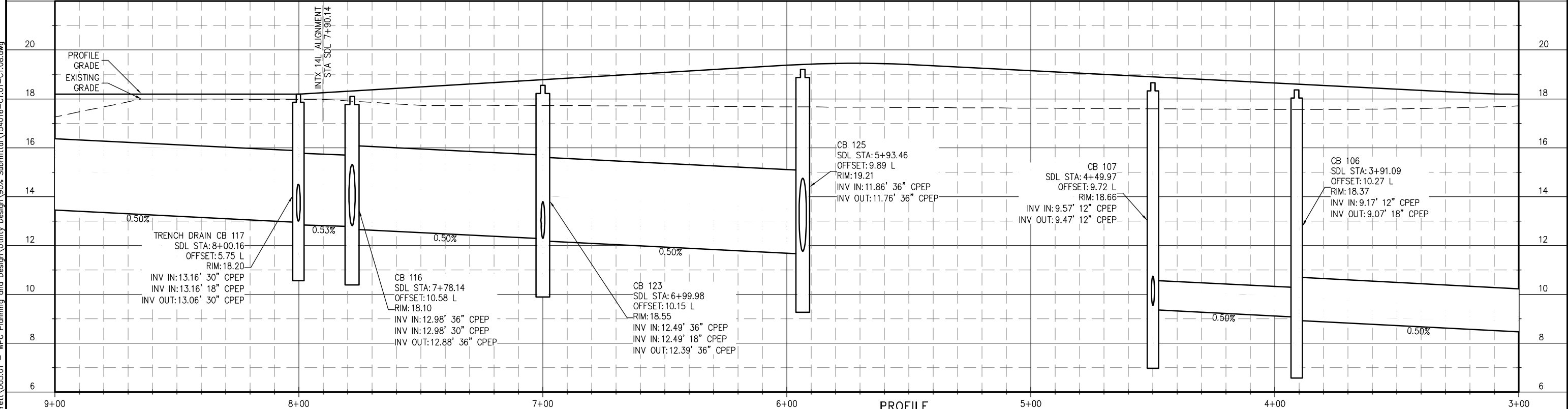
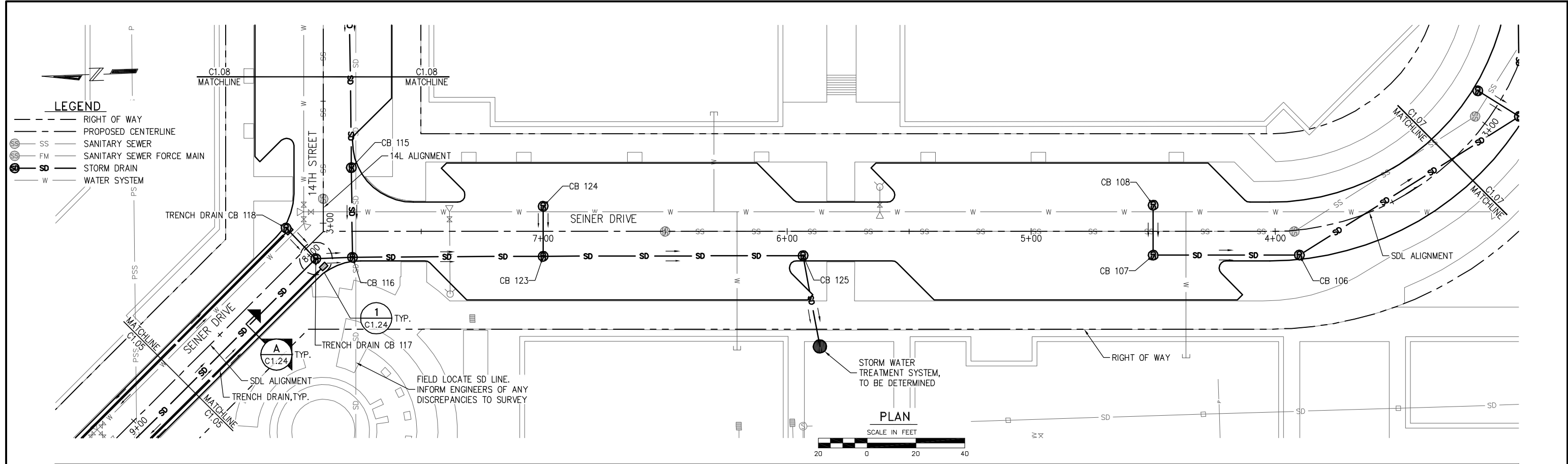
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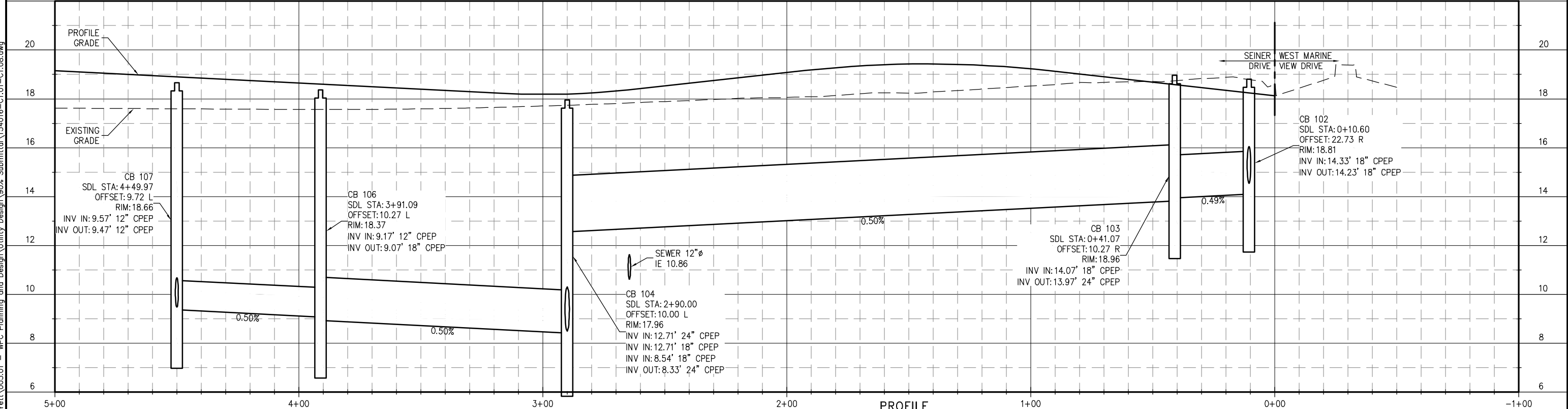
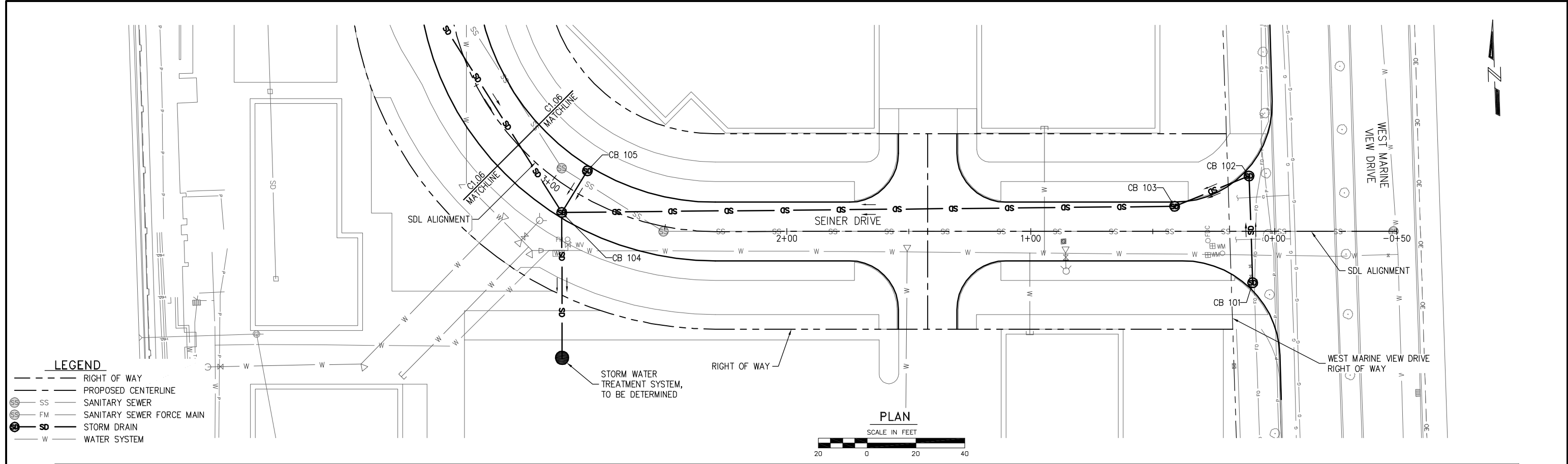
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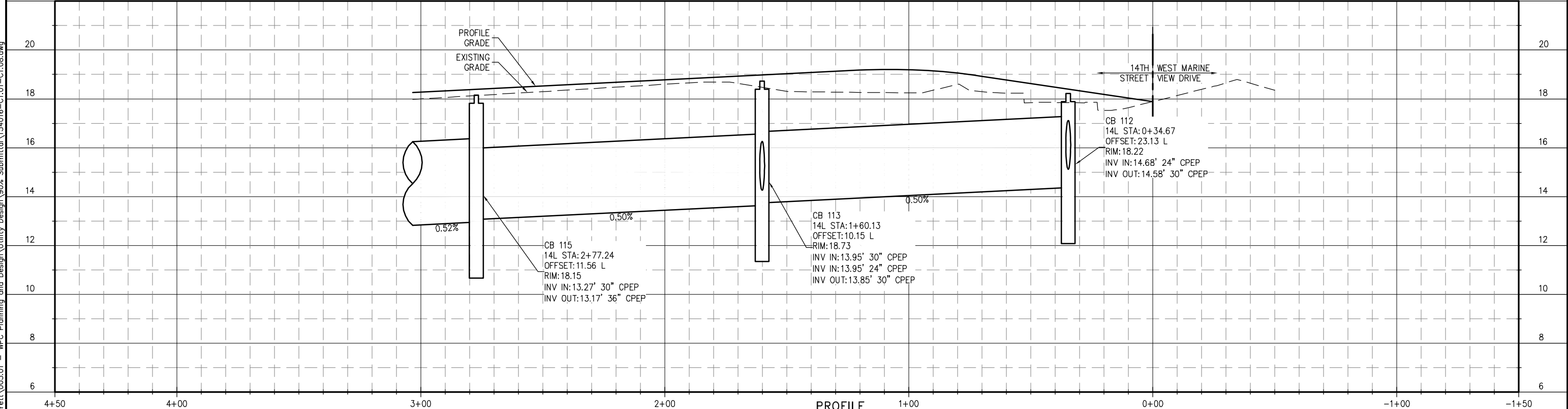
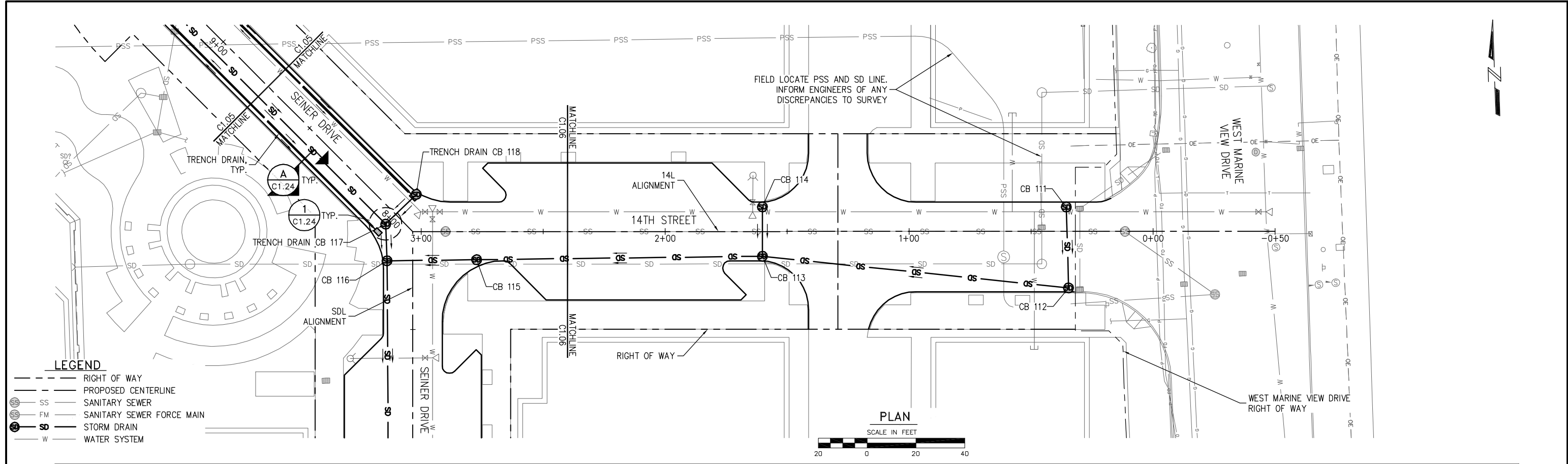
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DESIGNED BY: M. O'CONNOR	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: C. WEST
APPROVED BY:	

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PROJECT ENGINEER:
J. KEISER

DESIGNED BY:
M. O'CONNOR

DRAWN BY:
D. McDONALD

APPROVED BY:

SCALE:
NOTED

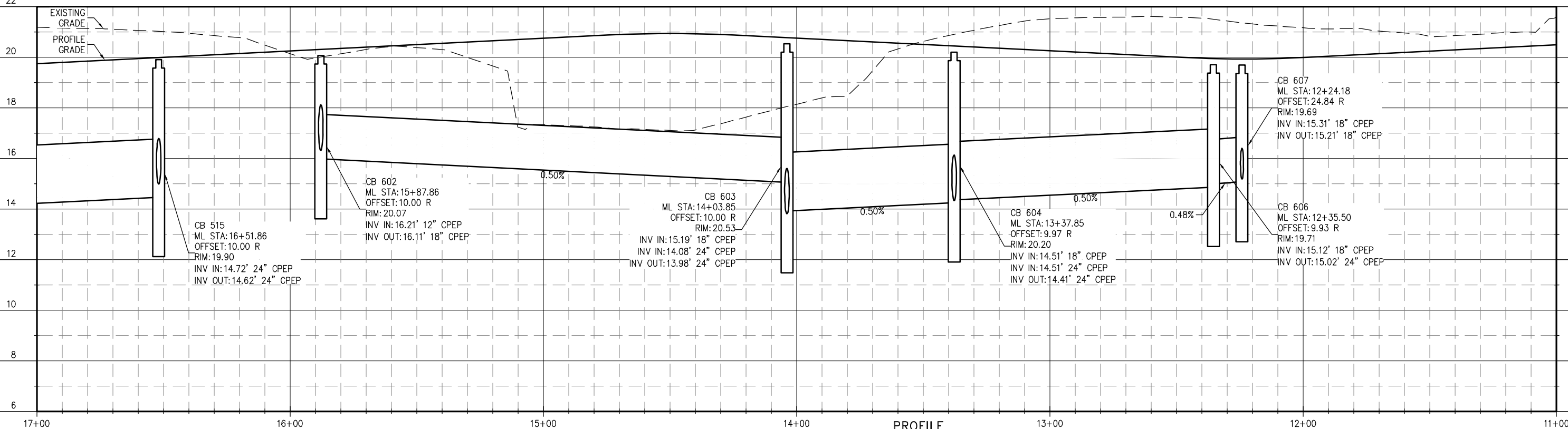
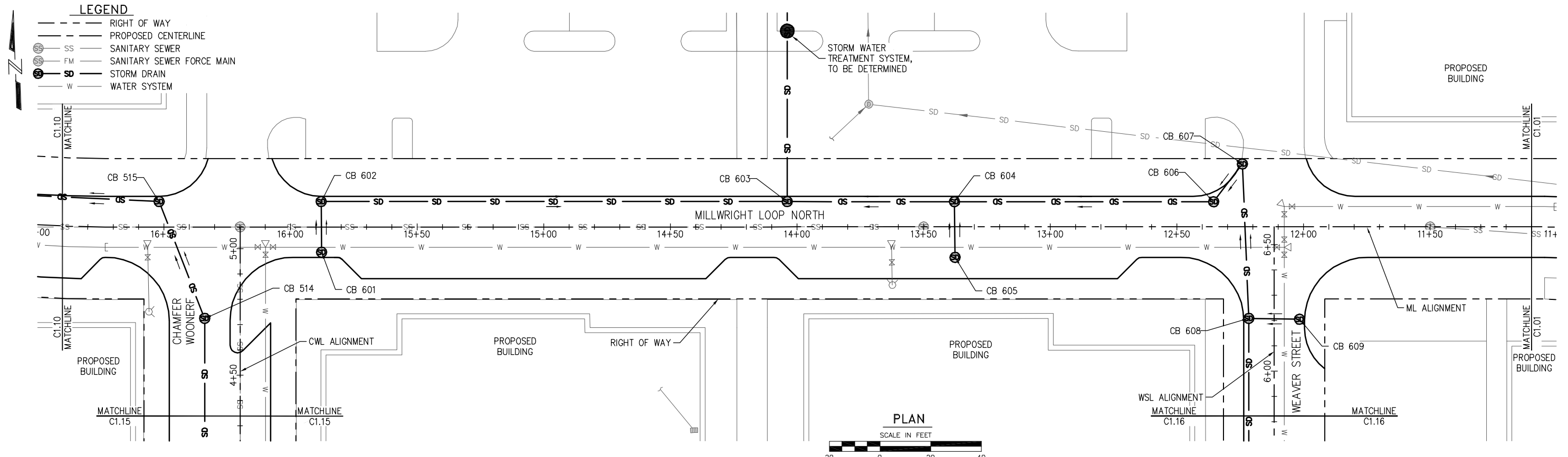
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DEC. 2015

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C. WEST

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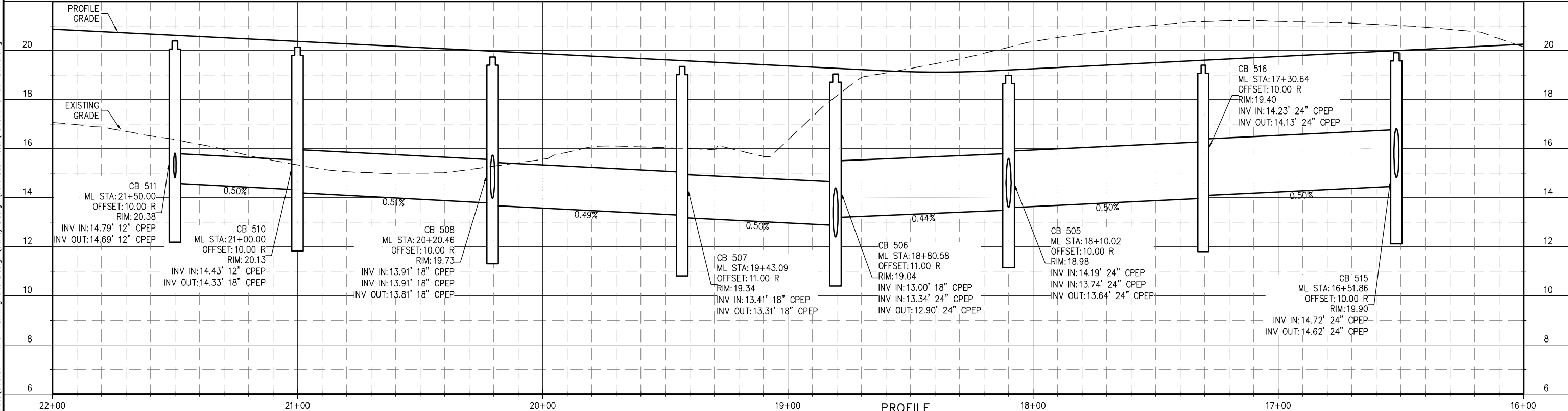
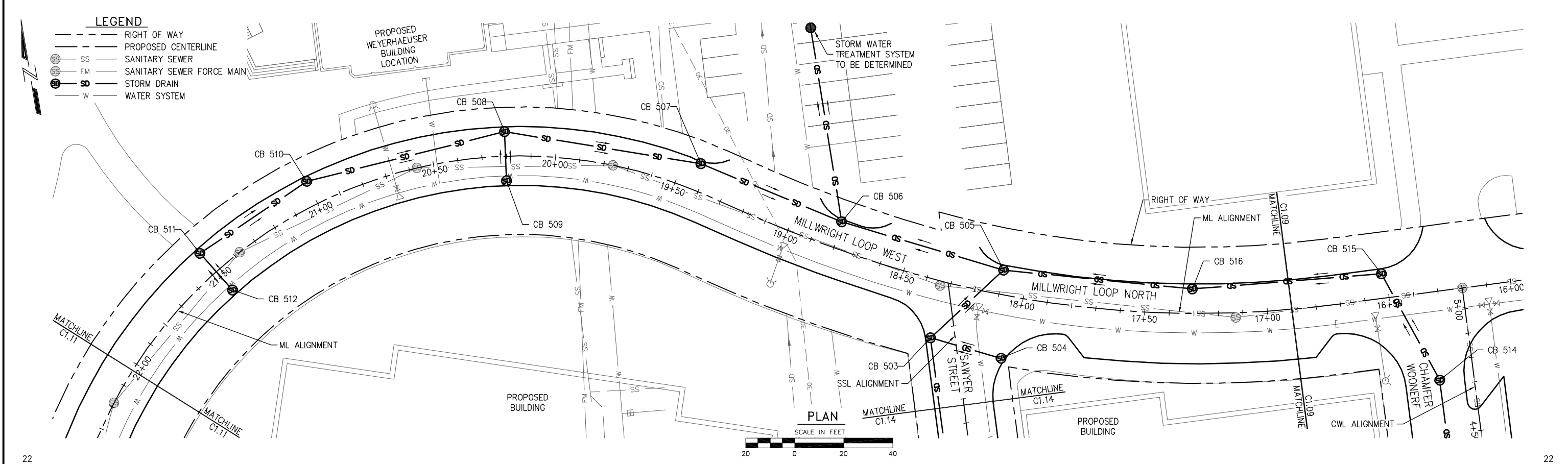
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

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PROJECT NO.	--
SHEET NO.	18 OF



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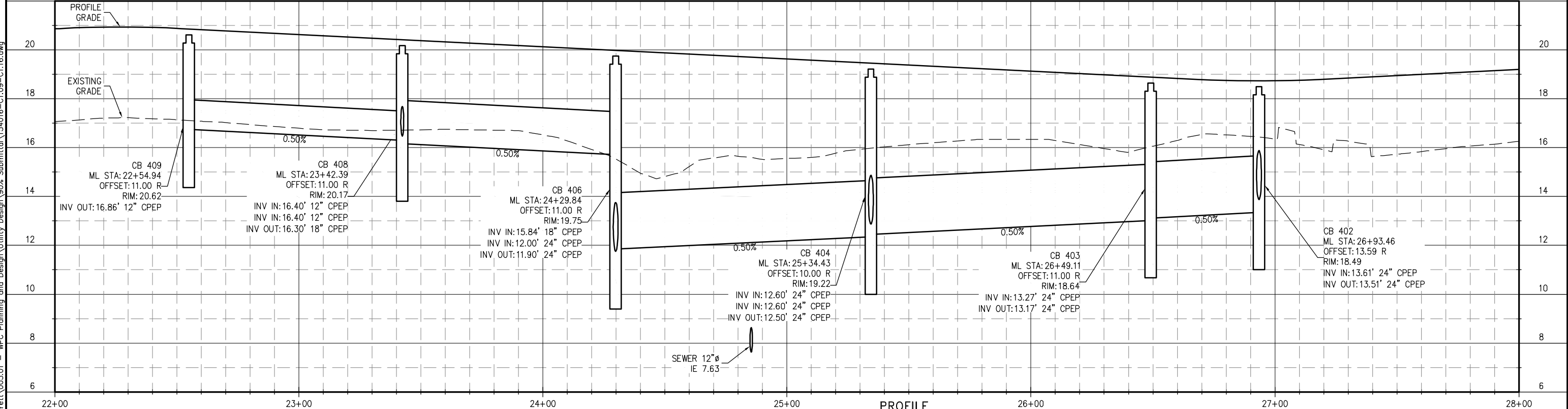
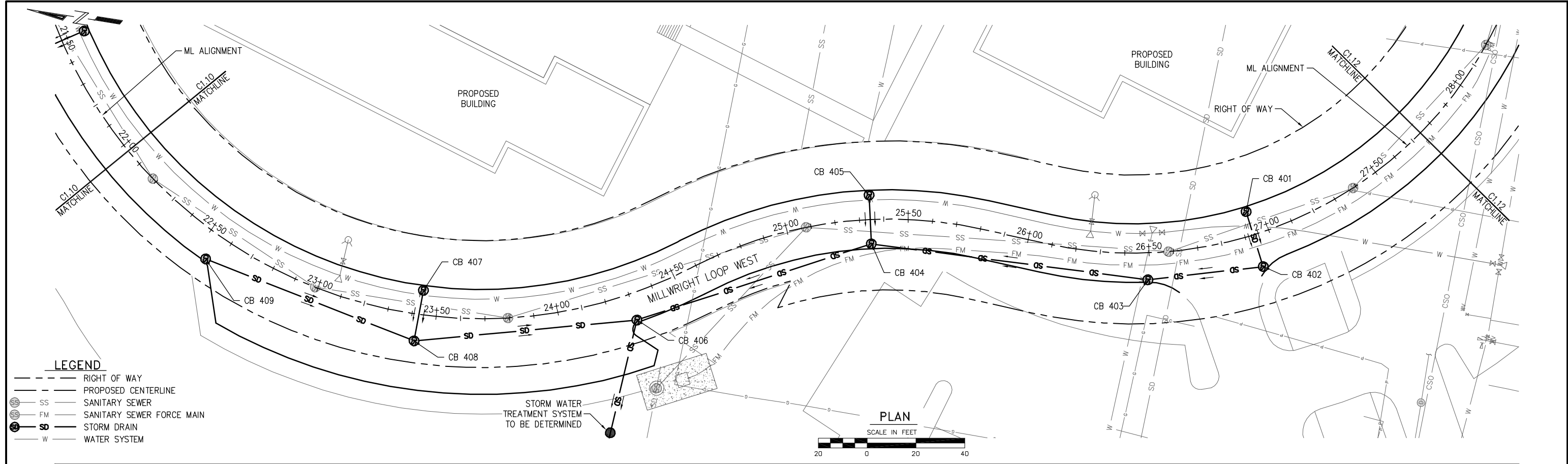
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT

**WATERFRONT PLACE
MASTER UTILITY DESIGN
DRAINAGE PLAN AND PROFILE**

DWG. NO.	C1.10
CIP NO.	--
PROJECT NO.	--
SHEET NO.	19 OF



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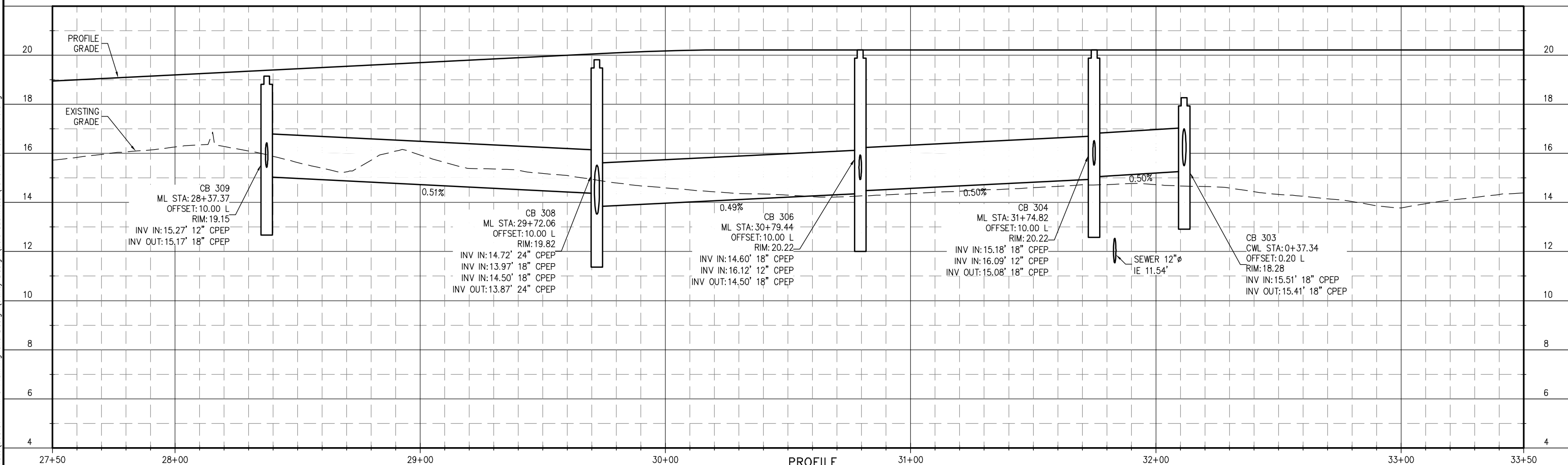
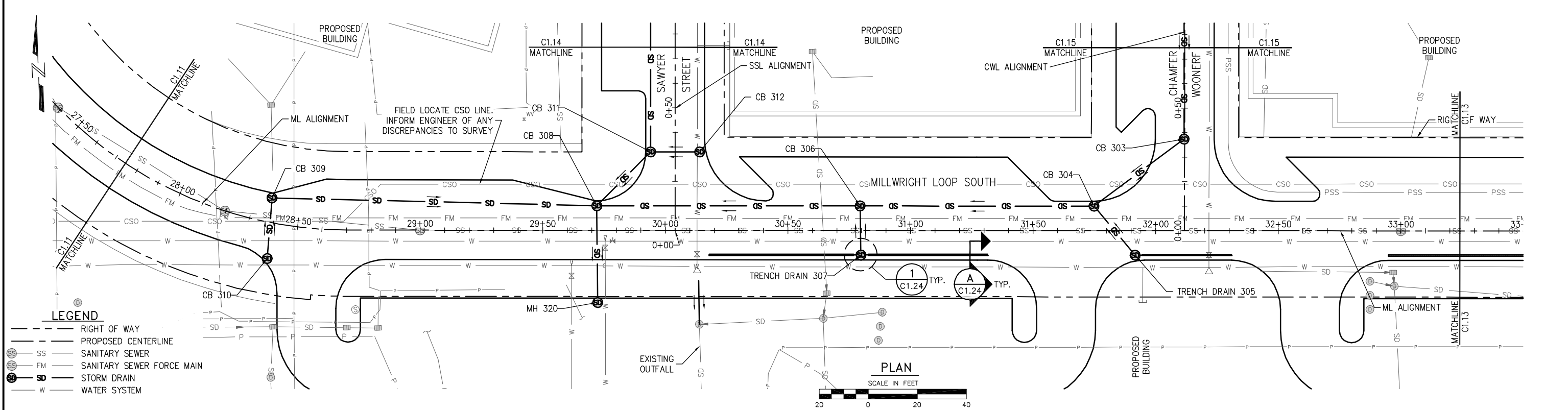
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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.11
CIP NO.	--
PROJECT NO.	--
SHEET NO.	20 OF



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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

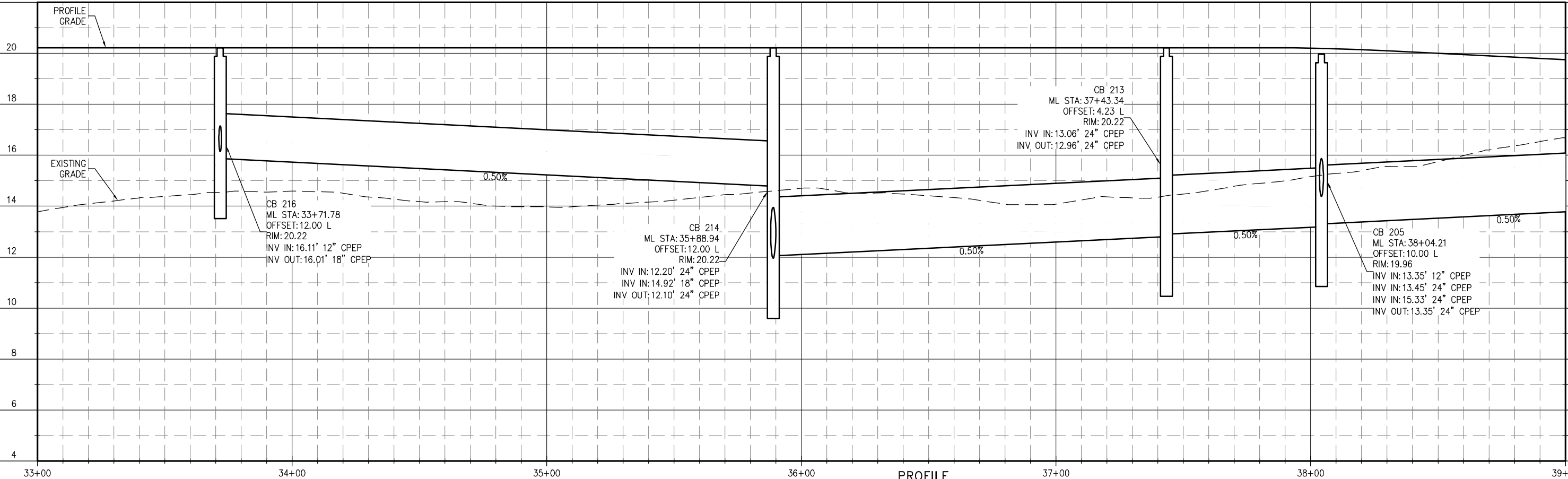
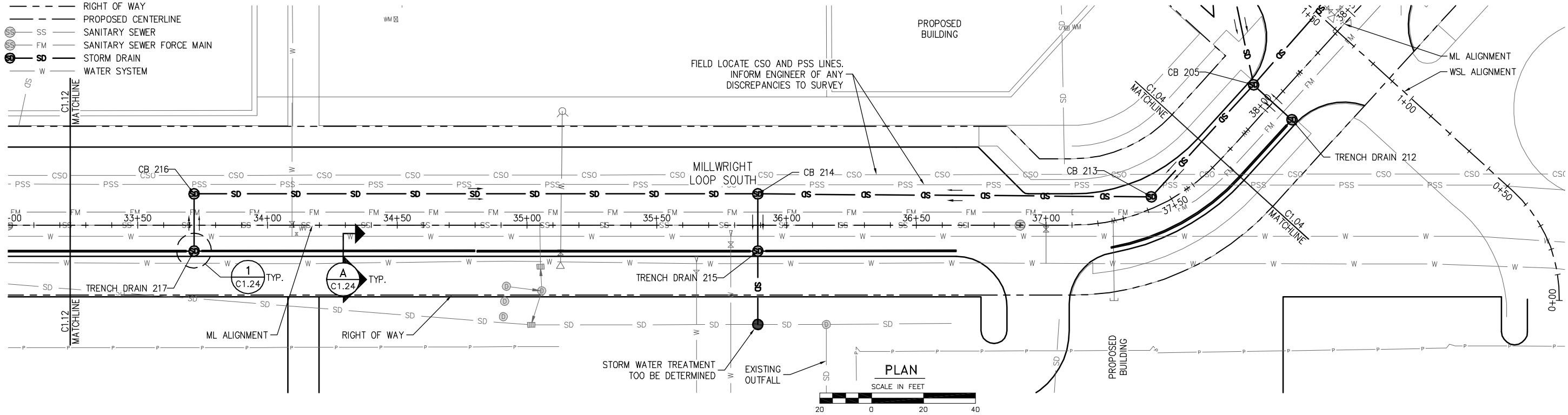
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DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.12
CIP NO.	--
PROJECT NO.	--
SHEET NO.	21 OF

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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SANITARY SEWER
- FM SANITARY SEWER FORCE MAIN
- SD STORM DRAIN
- W WATER SYSTEM



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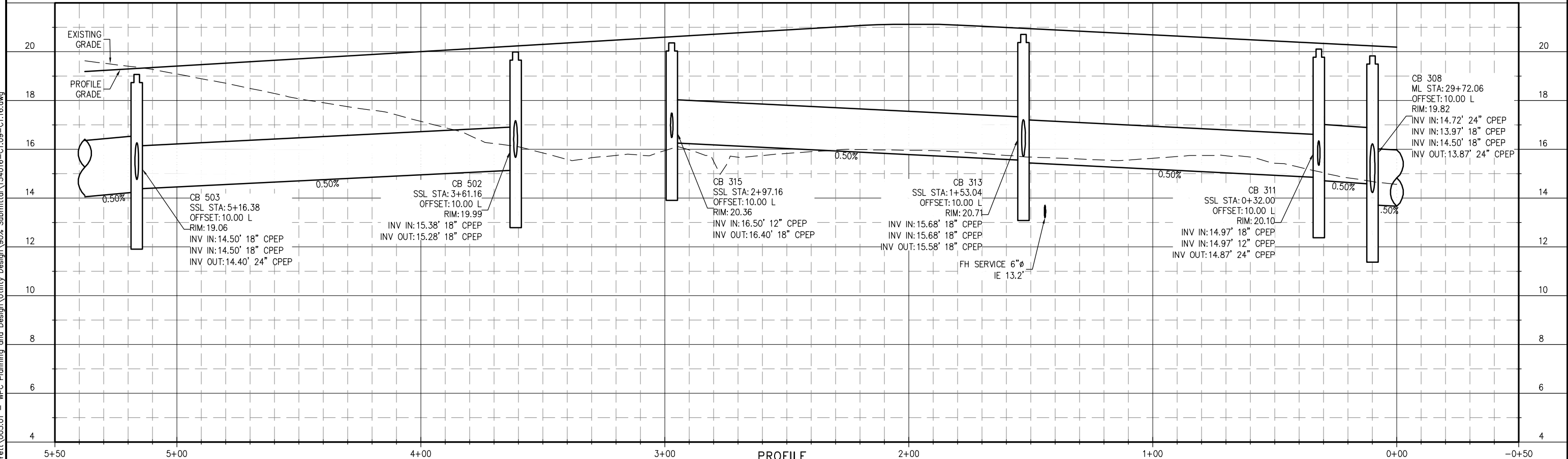
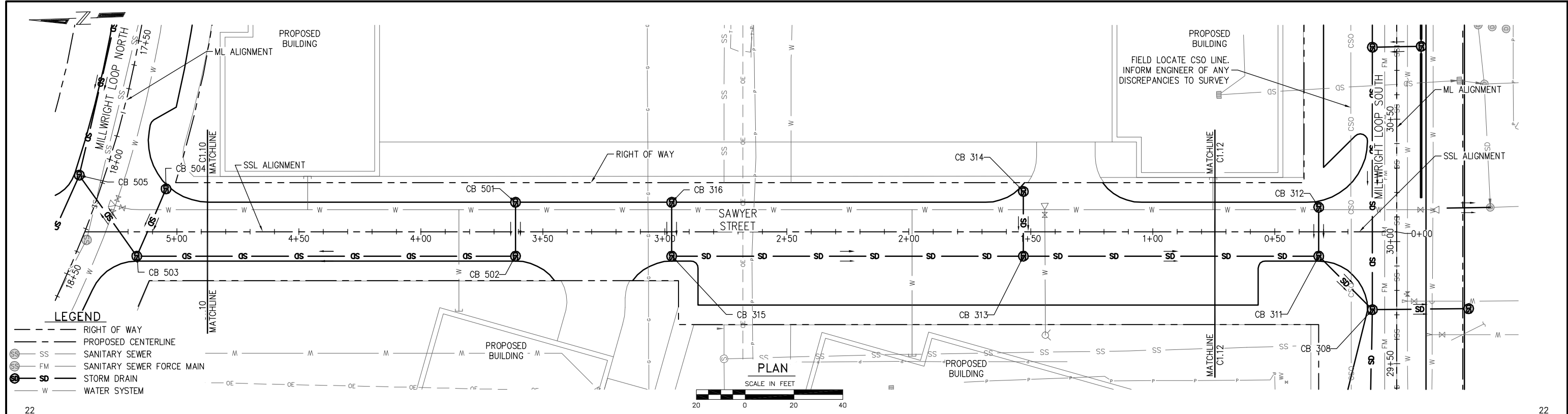
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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

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DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.13
CIP NO.	--
PROJECT NO.	--
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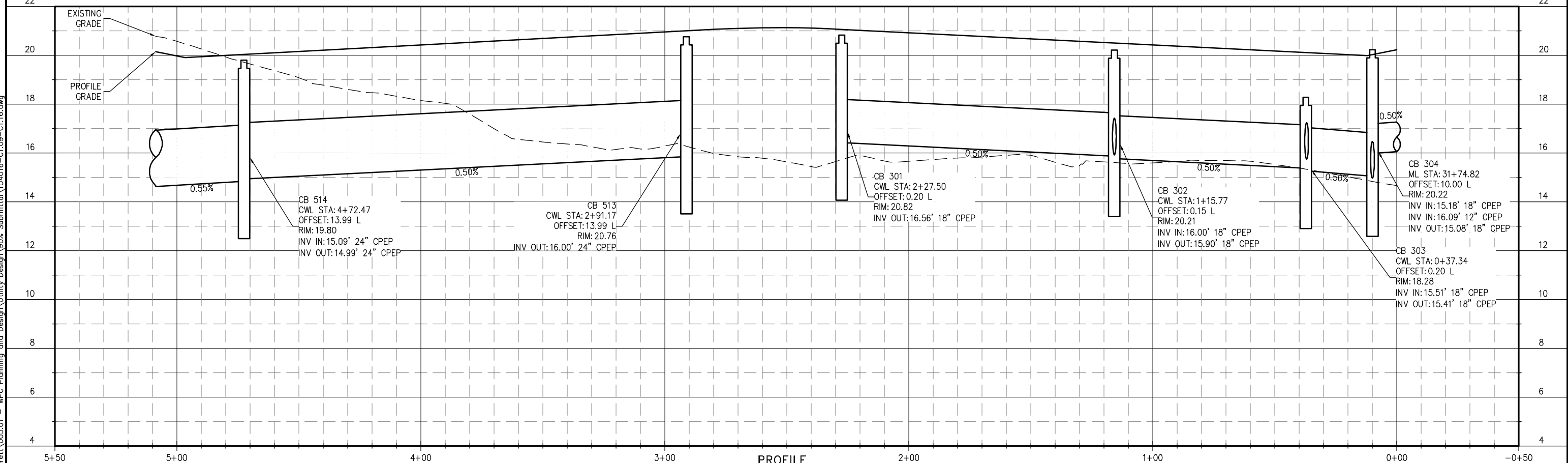
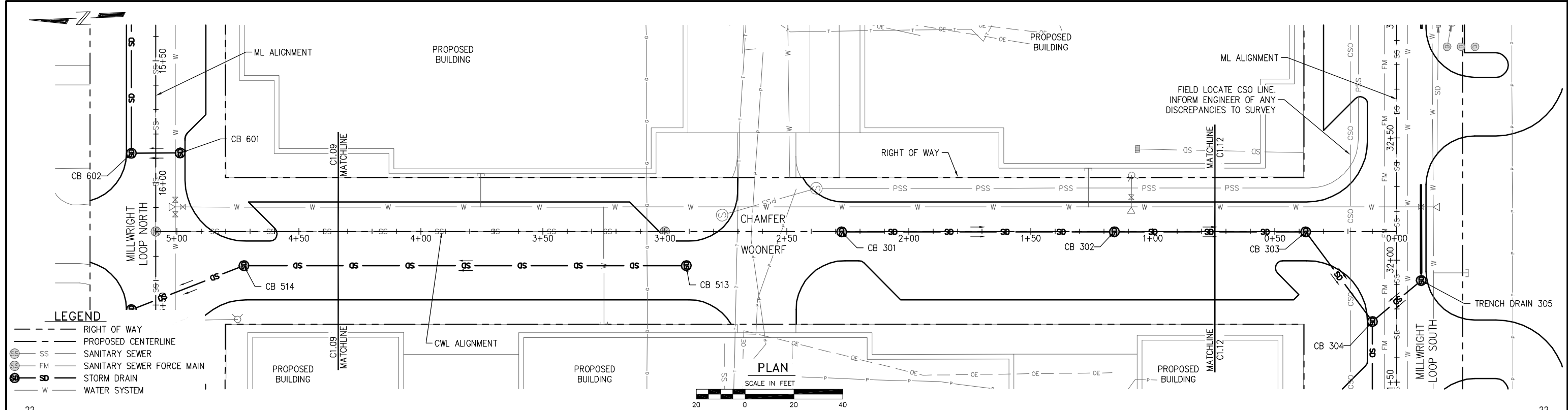
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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
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PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.14
CIP NO.	--
PROJECT NO.	--
SHEET NO.	23 OF



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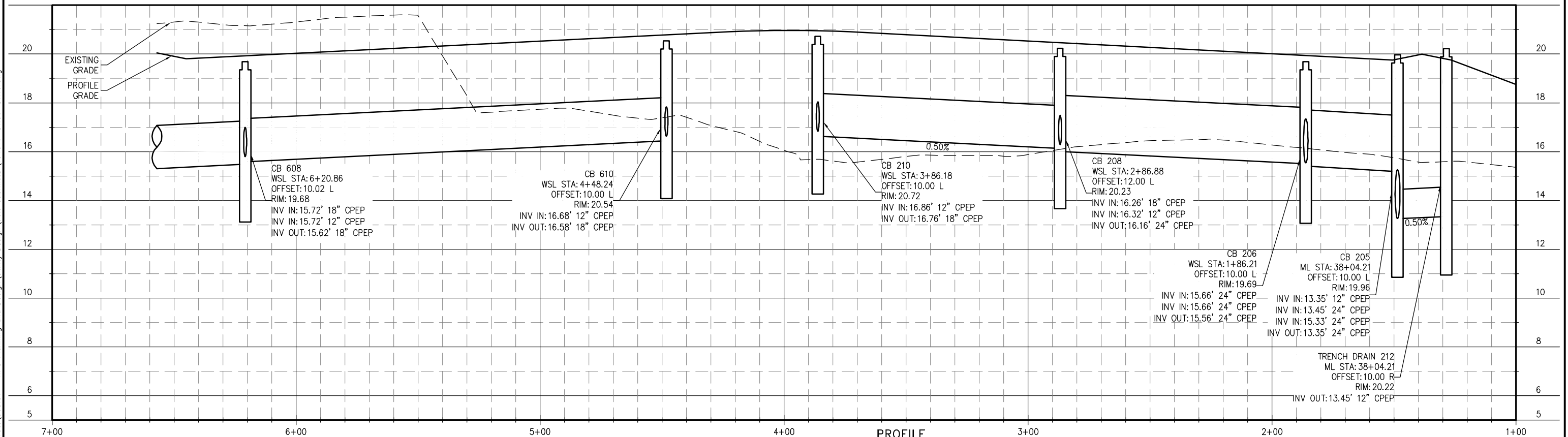
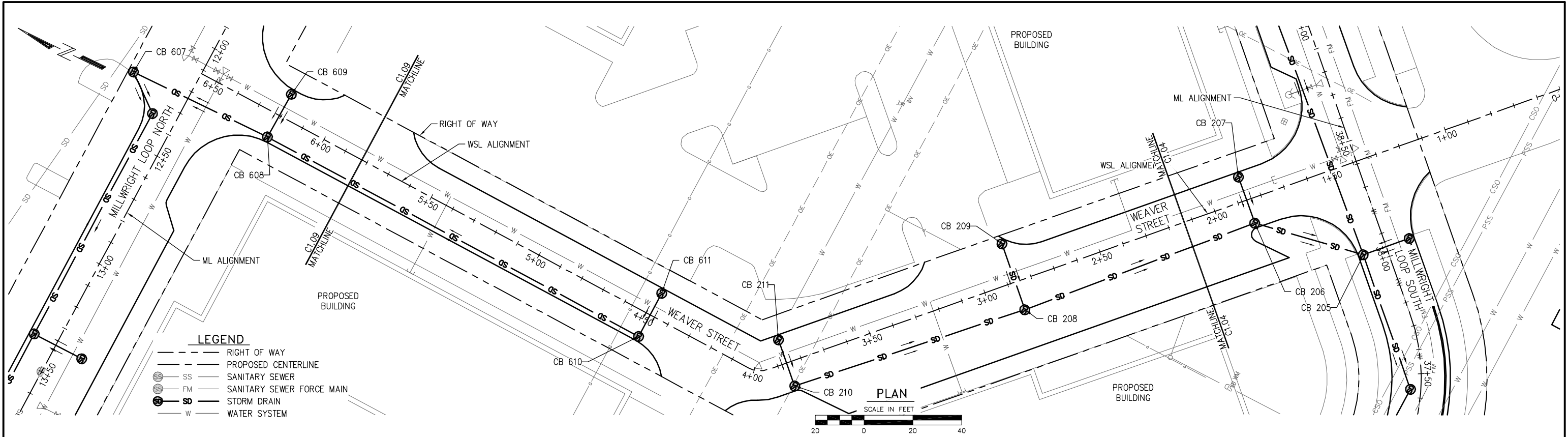
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DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
DRAINAGE PLAN AND PROFILE

DWG. NO.	C1.15
CIP NO.	--
PROJECT NO.	--
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PORT OF EVERETT
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DWG. NO.	C1.16
CIP NO.	--
PROJECT NO.	--
SHEET NO.	25 OF

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DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY: _____	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
FISHERMAN'S A STORM
TREATMENT

DWG. NO.	C1.17
CIP NO.	--
PROJECT NO.	--
SHEET NO.	26 OF

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APPROVED BY: _____	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
FISHERMAN'S B STORM
TREATMENT

DWG. NO.	C1.18
CIP NO.	--
PROJECT NO.	--
SHEET NO.	26 OF

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APPROVED BY: _____	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
MILLWRIGHT SOUTH STORM
TREATMENT

DWG. NO.	C1.19
CIP NO.	--
PROJECT NO.	--
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APPROVED BY: _____	

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 MASTER UTILITY DESIGN
 MILLWRIGHT NORTH STORM
 TREATMENT

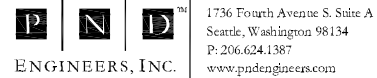
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CIP NO.	--
PROJECT NO.	--
SHEET NO.	28 OF

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APPROVED BY: _____	

PORT OF EVERETT
 WATERFRONT PLACE CENTRAL
 MASTER UTILITY DESIGN
 WOONERF NORHT STORM
 TREATMENT

DWG. NO.	C1.21
CIP NO.	--
PROJECT NO.	--
SHEET NO.	29 OF

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DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY: _____	

PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
WHARF'S EDGE
TREATMENT

DWG. NO.	C1.22
CIP NO.	--
PROJECT NO.	--
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PORT OF EVERETT
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 MASTER UTILITY DESIGN
 WOONERF SOUTH STORM
 TREATMENT

DWG. NO.	C1.23
CIP NO.	--
PROJECT NO.	--
SHEET NO.	31 OF

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DRAINAGE - FISHERMAN'S HARBOR A - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 111	TYPE A	48"	14L STA: 0+35.58	10.00 R
CB 112	TYPE 2	60"	14L STA: 0+34.67	23.13 L
CB 113	TYPE 2	60"	14L STA: 1+60.13	10.15 L
CB 114	TYPE A	48"	14L STA: 1+60.13	10.07 R
CB 115	TYPE 2	60"	14L STA: 2+77.24	11.56 L
CB 116	TYPE 2	60"	SDL STA: 7+78.14	10.58 L
CB 121	TYPE 2	48"	SDL STA: 10+01.47	9.65 L
CB 122	TYPE A	48"	SDL STA: 10+51.09	11.26 R
CB 123	TYPE 2	60"	SDL STA: 6+99.98	10.15 L
CB 124	TYPE A	48"	SDL STA: 6+99.98	10.35 R
CB 125	TYPE 2	60"	SDL STA: 5+93.46	9.89 L
TRENCH DRAIN CB 117	TRENCH DRAIN	48"	SDL STA: 8+00.16	5.75 L
TRENCH DRAIN CB 118	TRENCH DRAIN	48"	SDL STA: 7+99.87	11.75 R
TRENCH DRAIN CB 119	TRENCH DRAIN	48"	SDL STA: 9+30.06	5.77 L
TRENCH DRAIN CB 120	TRENCH DRAIN	48"	SDL STA: 9+29.99	10.74 R

DRAINAGE - FISHERMAN'S HARBOR B - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 101	TYPE 2	48"	SDL STA: 0+09.07	21.00 L
CB 102	TYPE 2	48"	SDL STA: 0+10.60	22.73 R
CB 103	TYPE 2	48"	SDL STA: 0+41.07	10.27 R
CB 104	TYPE 2	48"	SDL STA: 2+90.00	10.00 L
CB 105	TYPE A	48"	SDL STA: 2+90.00	10.00 R
CB 106	TYPE 2	48"	SDL STA: 3+91.09	10.27 L
CB 107	TYPE 2	48"	SDL STA: 4+49.97	9.72 L
CB 108	TYPE A	48"	SDL STA: 4+49.97	10.78 R

DRAINAGE - MILLWRIGHT NORTH - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 601	TYPE 2	48"	ML STA: 15+87.72	10.00 L
CB 602	TYPE 2	48"	ML STA: 15+87.86	10.00 R
CB 603	TYPE 2	48"	ML STA: 14+03.85	10.00 R
CB 604	TYPE 2	48"	ML STA: 13+37.85	9.97 R
CB 605	TYPE A	48"	ML STA: 13+37.60	12.00 L
CB 606	TYPE 2	48"	ML STA: 12+35.50	9.93 R
CB 607	TYPE 2	48"	ML STA: 12+24.18	24.84 R
CB 608	TYPE 2	48"	WSL STA: 6+20.86	10.02 L
CB 609	TYPE 2	48"	WSL STA: 6+20.49	10.00 R
CB 610	TYPE 2	48"	WSL STA: 4+48.24	10.00 L
CB 611	TYPE A	48"	WSL STA: 4+48.24	10.00 R

DRAINAGE - MILLWRIGHT SOUTH - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 201	TYPE A	48"	ML STA: 40+88.07	12.71 R
CB 202	TYPE 2	48"	ML STA: 40+88.07	10.02 L
CB 203	TYPE 2	48"	ML STA: 39+49.85	12.00 L
CB 204	TYPE A	48"	ML STA: 39+49.85	10.00 R
CB 205	TYPE 2	48"	ML STA: 38+04.21	10.00 L
CB 206	TYPE 2	48"	WSL STA: 1+86.21	10.00 L
CB 207	TYPE A	48"	WSL STA: 1+86.21	10.00 R
CB 208	TYPE 2	48"	WSL STA: 2+86.88	12.00 L
CB 209	TYPE A	48"	WSL STA: 2+86.71	16.54 R
CB 210	TYPE 2	48"	WSL STA: 3+86.18	10.00 L
CB 211	TYPE 2	48"	WSL STA: 3+86.18	10.00 R
CB 213	TYPE 2	48"	ML STA: 37+43.34	4.23 L
CB 214	TYPE 2	48"	ML STA: 35+88.94	12.00 L
CB 216	TYPE 2	48"	ML STA: 33+71.78	12.00 L
TRENCH DRAIN 212	TRENCH DRAIN	48"	ML STA: 38+04.21	10.00 R
TRENCH DRAIN 215	TRENCH DRAIN	48"	ML STA: 35+88.94	10.00 R
TRENCH DRAIN 217	TRENCH DRAIN	48"	ML STA: 33+71.78	10.00 R

DRAINAGE - WHARF'S EDGE - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 401	TYPE A	48"	ML STA: 26+93.46	10.00 L
CB 402	TYPE 2	48"	ML STA: 26+93.46	13.59 R
CB 403	TYPE 2	48"	ML STA: 26+49.11	11.00 R
CB 404	TYPE 2	48"	ML STA: 25+34.43	10.00 R
CB 405	TYPE A	48"	ML STA: 25+34.43	10.00 L
CB 406	TYPE 2	48"	ML STA: 24+29.84	11.00 R
CB 407	TYPE A	48"	ML STA: 23+43.34	10.00 L
CB 408	TYPE 2	48"	ML STA: 23+42.39	11.00 R
CB 409	TYPE 2	48"	ML STA: 22+54.94	11.00 R

DRAINAGE - WOONERF NORTH - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 501	TYPE A	48"	SSL STA: 3+61.16	12.00 R
CB 502	TYPE 2	48"	SSL STA: 3+61.16	10.00 L
CB 503	TYPE 2	48"	SSL STA: 5+16.38	10.00 L
CB 504	TYPE 2	48"	??? STA: ???	??? ???
CB 505	TYPE 2	48"	ML STA: 18+10.02	10.00 R
CB 506	TYPE 2	48"	ML STA: 18+80.58	11.00 R
CB 507	TYPE 2	48"	ML STA: 19+43.09	11.00 R
CB 508	TYPE 2	48"	ML STA: 20+20.46	10.00 R
CB 509	TYPE A	48"	ML STA: 20+20.31	10.00 L
CB 510	TYPE 2	48"	ML STA: 21+00.00	10.00 R
CB 511	TYPE 2	48"	ML STA: 21+50.00	10.00 R
CB 512	TYPE A	48"	ML STA: 21+50.00	10.00 L
CB 513	TYPE 2	48"	CWL STA: 2+91.17	13.99 L
CB 514	TYPE 2	48"	CWL STA: 4+72.47	13.99 L
CB 515	TYPE 2	48"	ML STA: 16+51.86	10.00 R
CB 516	TYPE 2	48"	ML STA: 17+30.64	10.00 R

DRAINAGE - WOONERF SOUTH - STRUCTURE TABLE

NAME	TYPE	SIZE	STA	OFFSET
CB 301	TYPE 2	48"	CWL STA: 2+27.50	0.20 L
CB 302	TYPE 2	48"	CWL STA: 1+15.77	0.15 L
CB 303	TYPE 2	48"	CWL STA: 0+37.34	0.20 L
CB 304	TYPE 2	48"	ML STA: 31+74.82	10.00 L
CB 306	TYPE 2	48"	ML STA: 30+79.44	10.00 L
CB 308	TYPE 2	48"	ML STA: 29+72.06	10.00 L
CB 309	TYPE 2	48"	ML STA: 28+37.37	10.00 L
CB 310	TYPE 2	48"	ML STA: 28+40.16	14.65 R
CB 311	TYPE 2	48"	SSL STA: 0+32.00	10.00 L
CB 312	TYPE A	48"	??? STA: ???	??? ???
CB 313	TYPE 2	48"	SSL STA: 1+53.04	10.00 L
CB 314	TYPE A	48"	SSL STA: 1+53.04	16.43 R
CB 315	TYPE 2	48"	SSL STA: 2+97.16	10.00 L
CB 316	TYPE A	48"	SSL STA: 2+97.16	12.00 R
TRENCH DRAIN 305	TRENCH DRAIN	48"	ML STA: 31+91.63	10.00 R
TRENCH DRAIN 307	TRENCH DRAIN	48"	ML STA: 30+79.80	10.00 R

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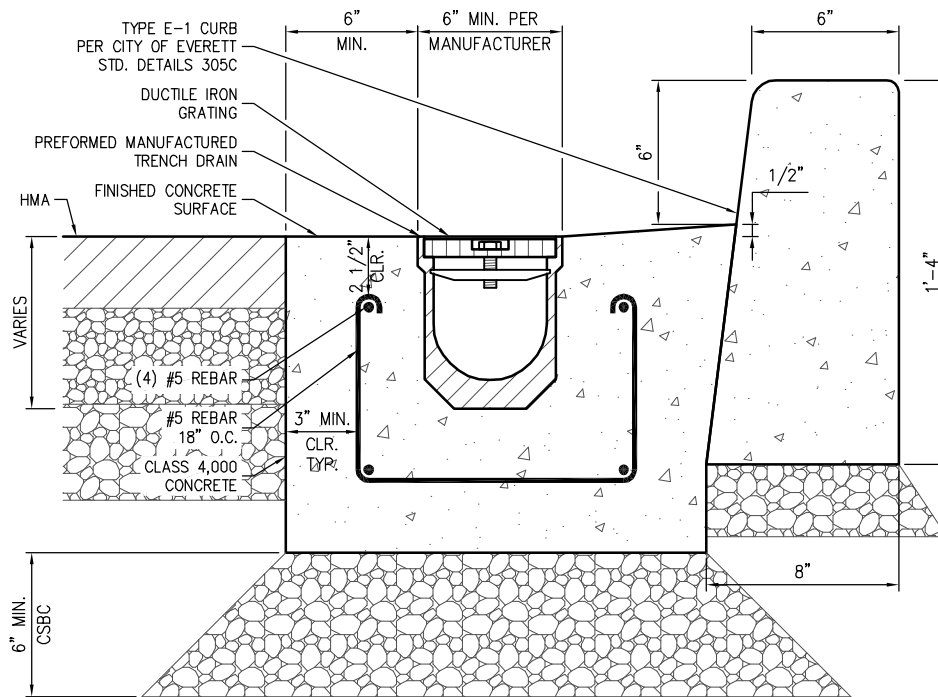
PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: SEPT. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

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MASTER UTILITY DESIGN
DRAINAGE STRUCTURE TABLES

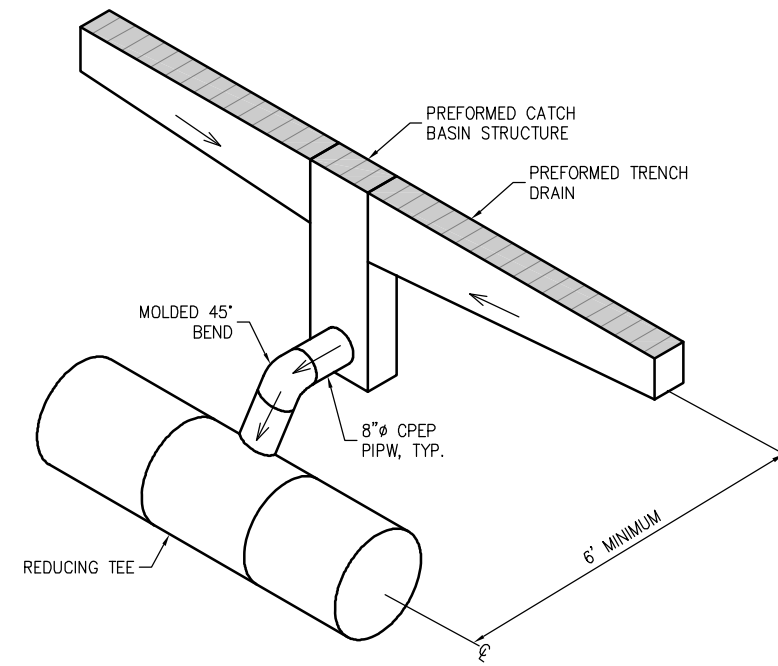
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CIP NO.	--
PROJECT NO.	--
SHEET NO.	32 OF

STORM DRAINAGE NOTES

1. NO PART OF THE DRAINAGE SYSTEM MAY BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY OF EVERETT.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE CITY OF EVERETT STANDARDS AND STANDARD SPECIFICATIONS OF WSDOT/APWA.
3. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT.
4. ALL STORM SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENT MUST BE STAKED BY SURVEY FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.
5. ALL CATCH BASIN GRATES MUST BE STENCILED OR STAMPED "DUMP NO WASTE, DRAINS TO STREAM, LAKE, RIVER, PUGET SOUND, OR WETLAND." CHOOSE APPROPRIATE FEATURE FOR PROJECT.



A TRENCH DRAIN
C1.04



1 TRENCH DRAIN CONNECTION
C1.04

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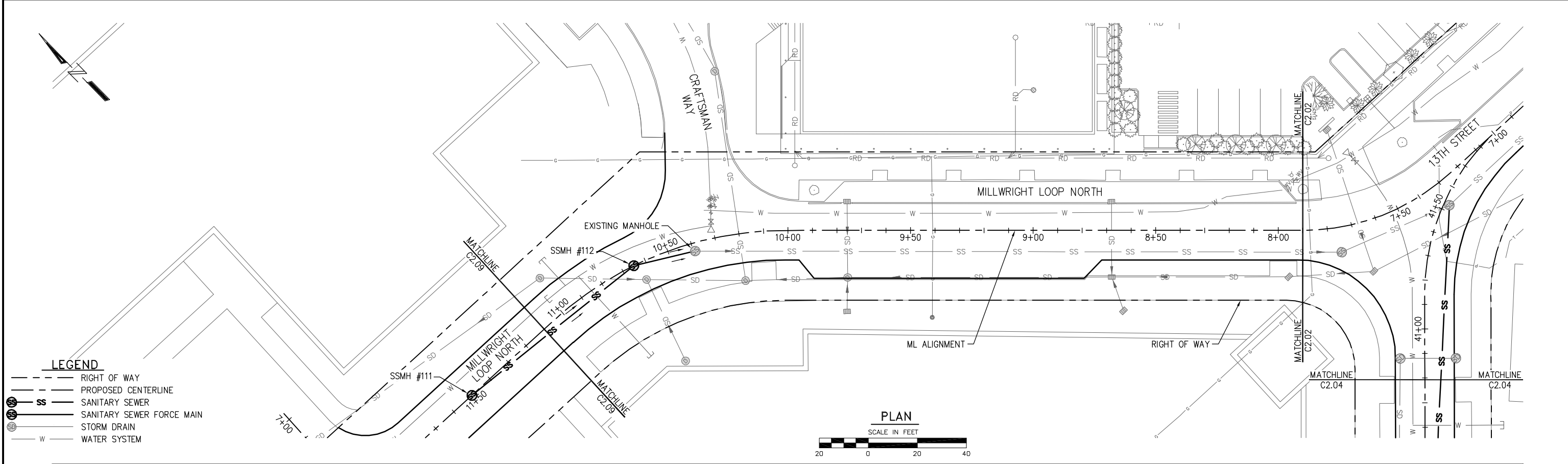
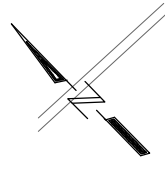
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DESIGNED BY: C. WIEST	DATE: SEPT. 2015
DRAWN BY: G. DEAN	CHECKED BY: N. ALEXANDER
APPROVED BY:	

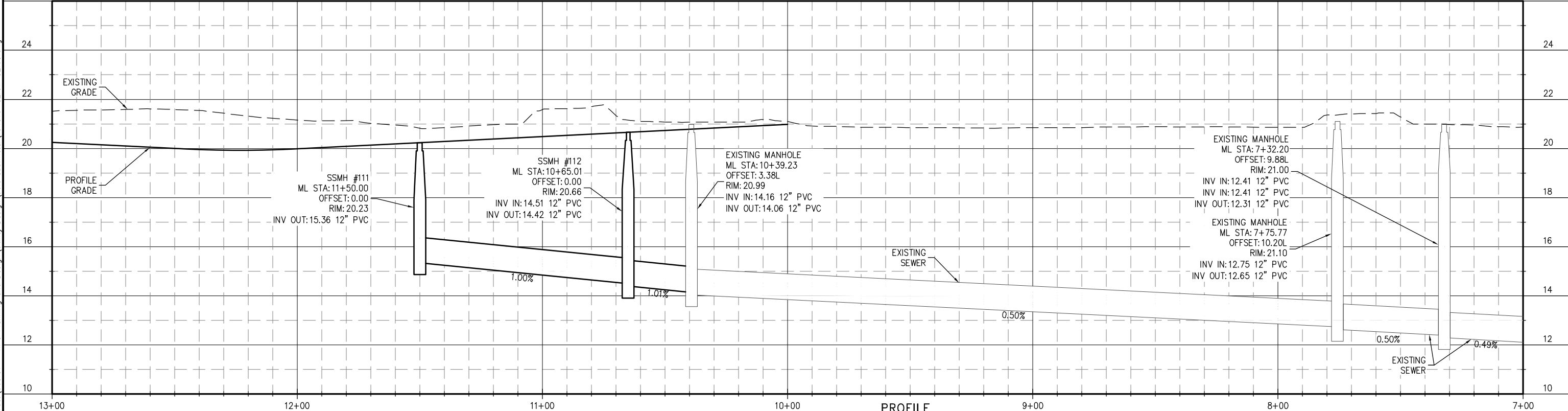
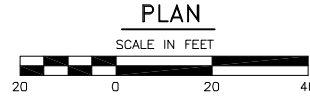
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PROJECT NO.	--
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- LEGEND**
- RIGHT OF WAY
 - - - PROPOSED CENTERLINE
 - SS SANITARY SEWER
 - SS SANITARY SEWER FORCE MAIN
 - SD STORM DRAIN
 - W WATER SYSTEM



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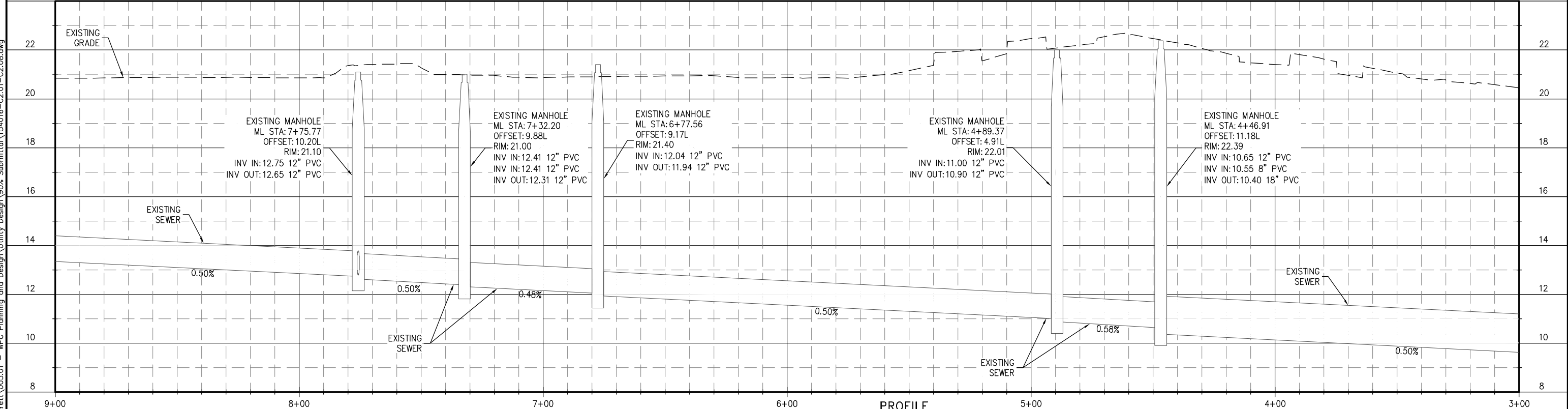
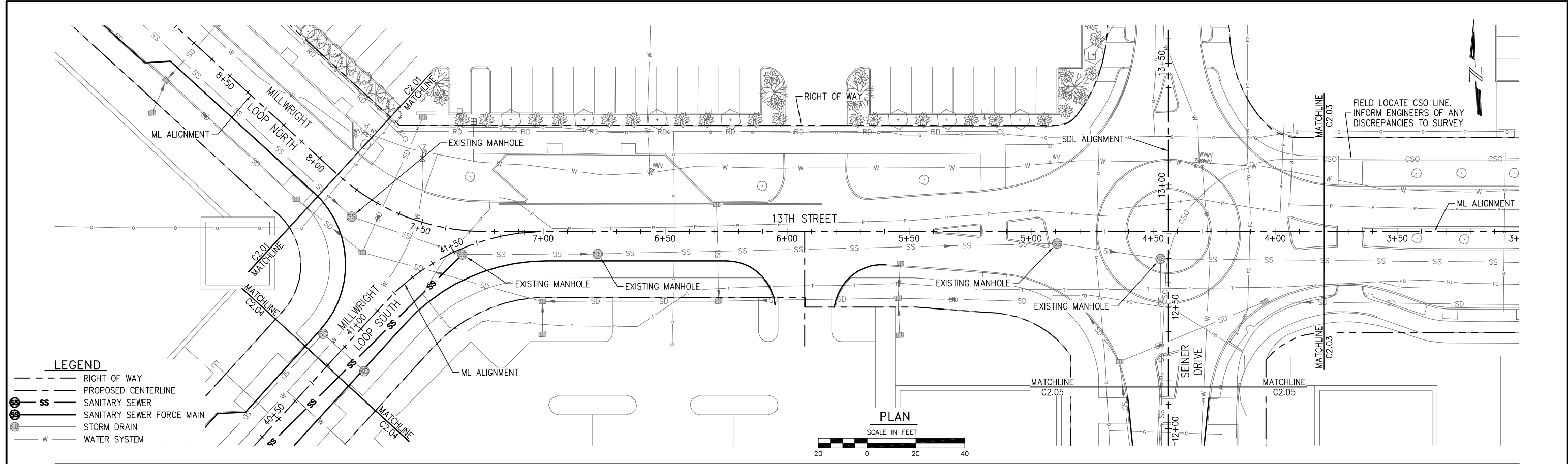
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: N. ALEXANDER	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: C. WEST
APPROVED BY:	

PORT OF EVERETT
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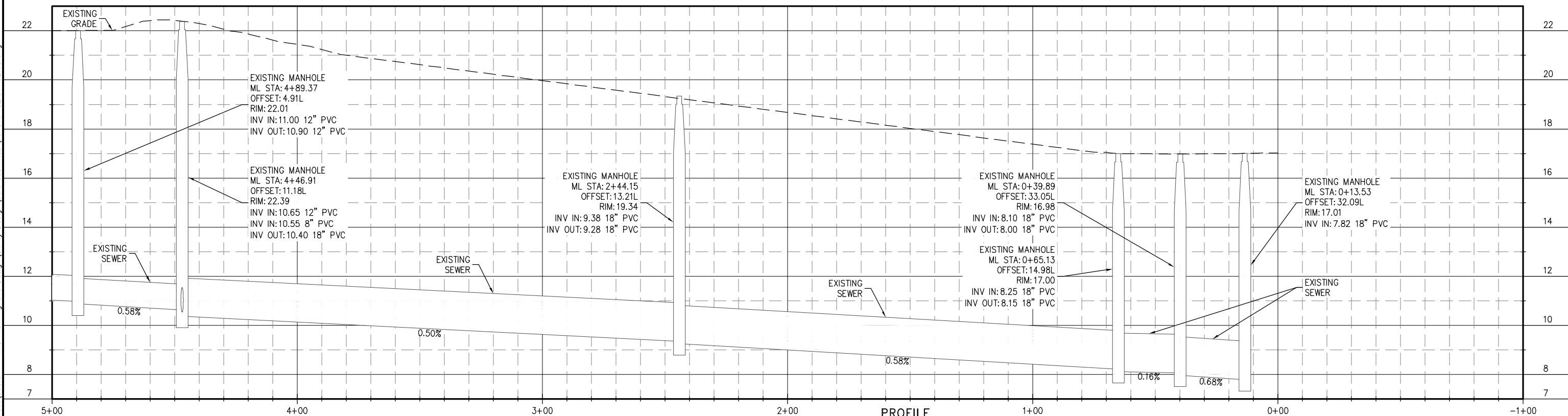
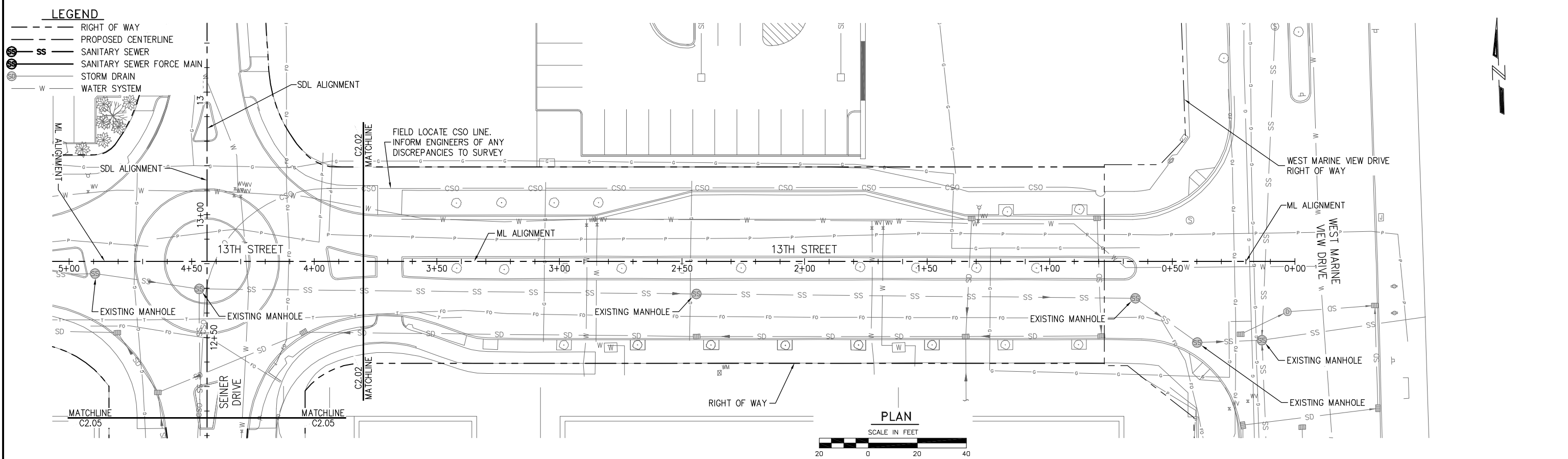
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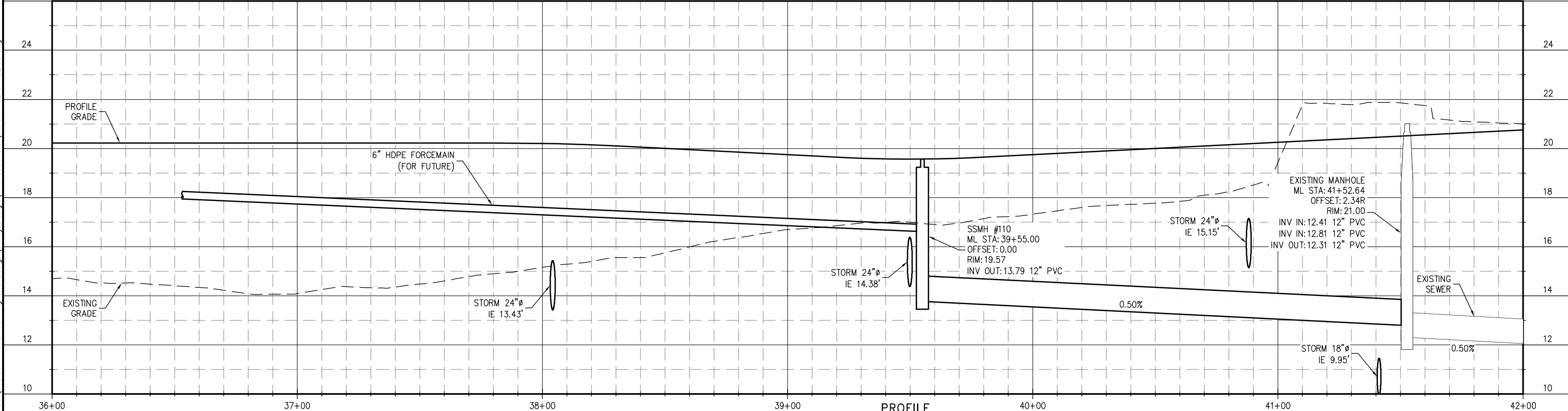
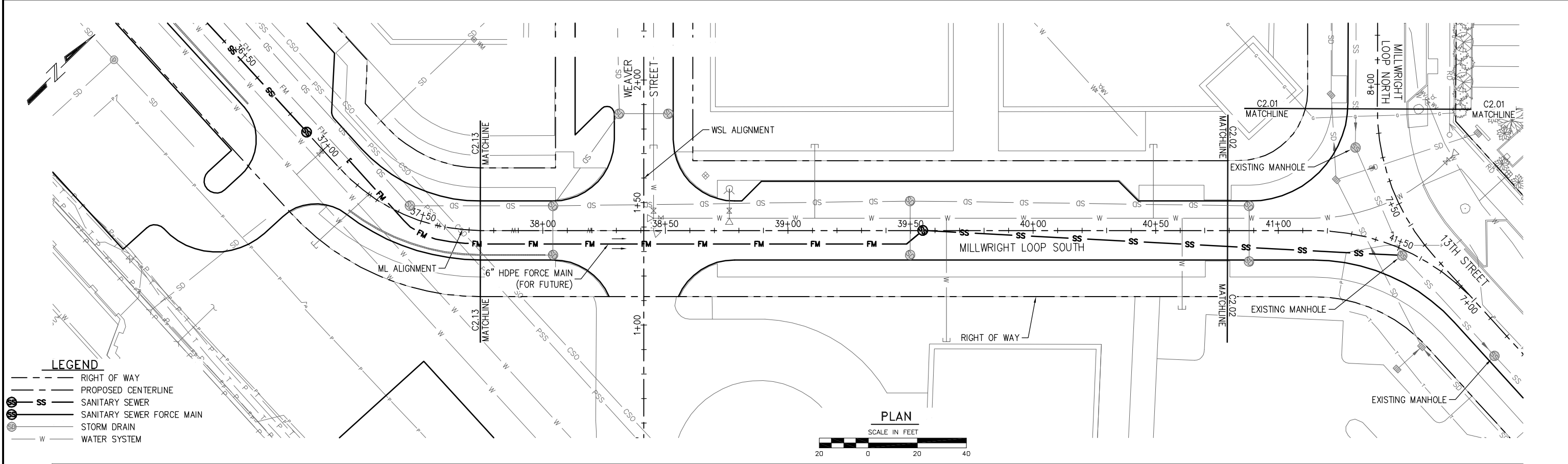
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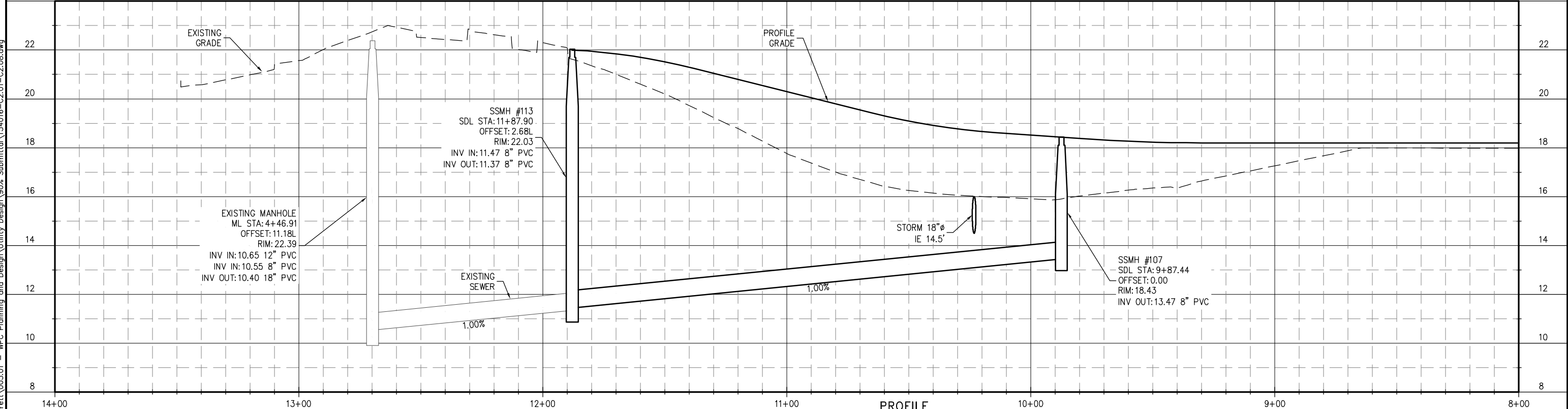
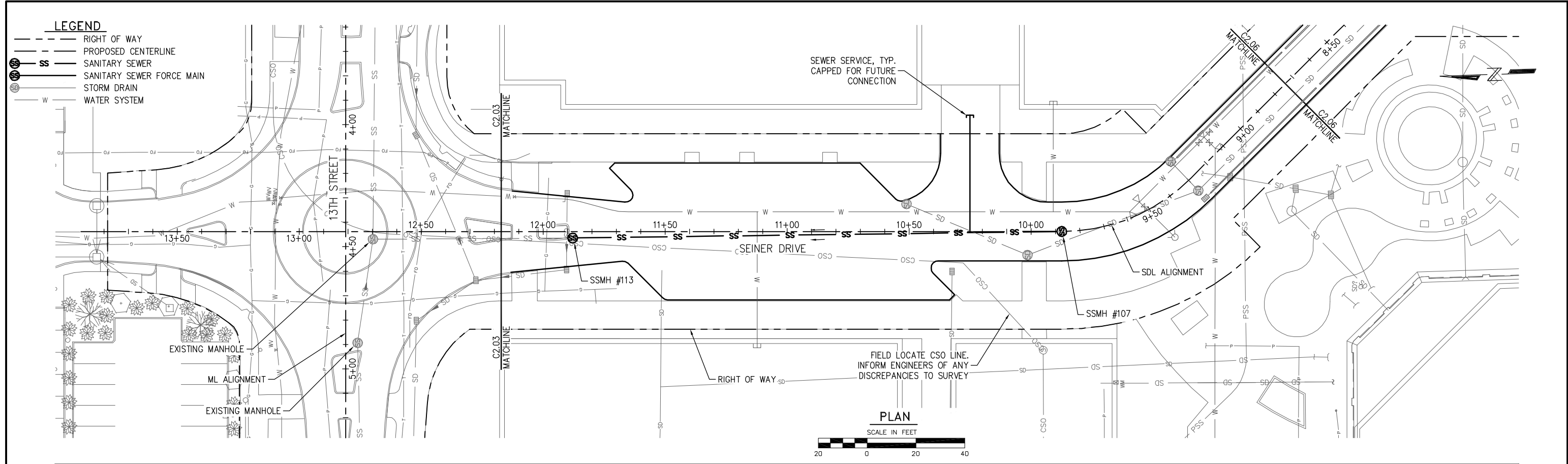
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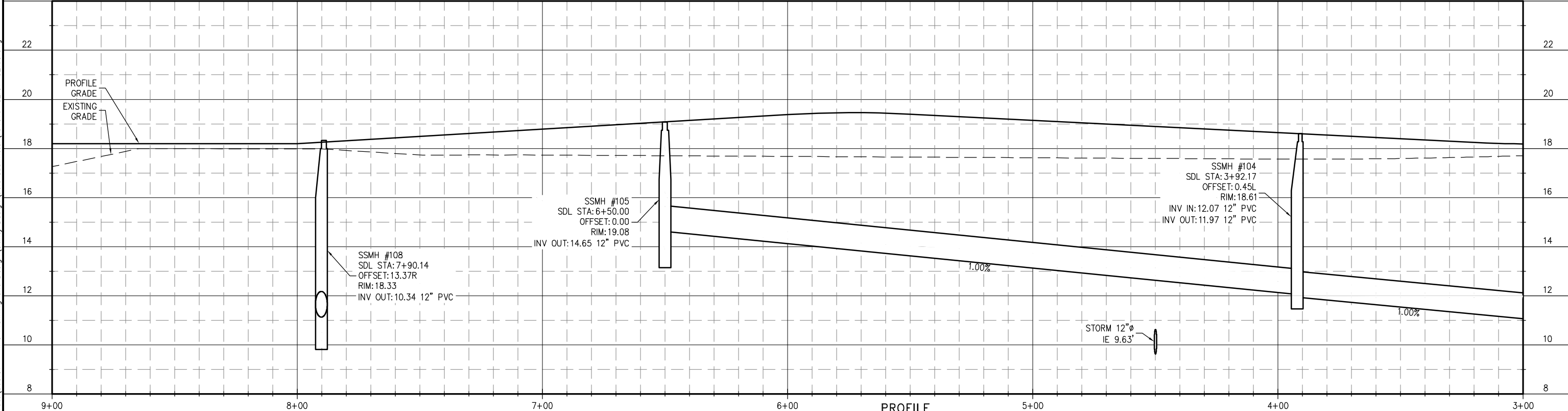
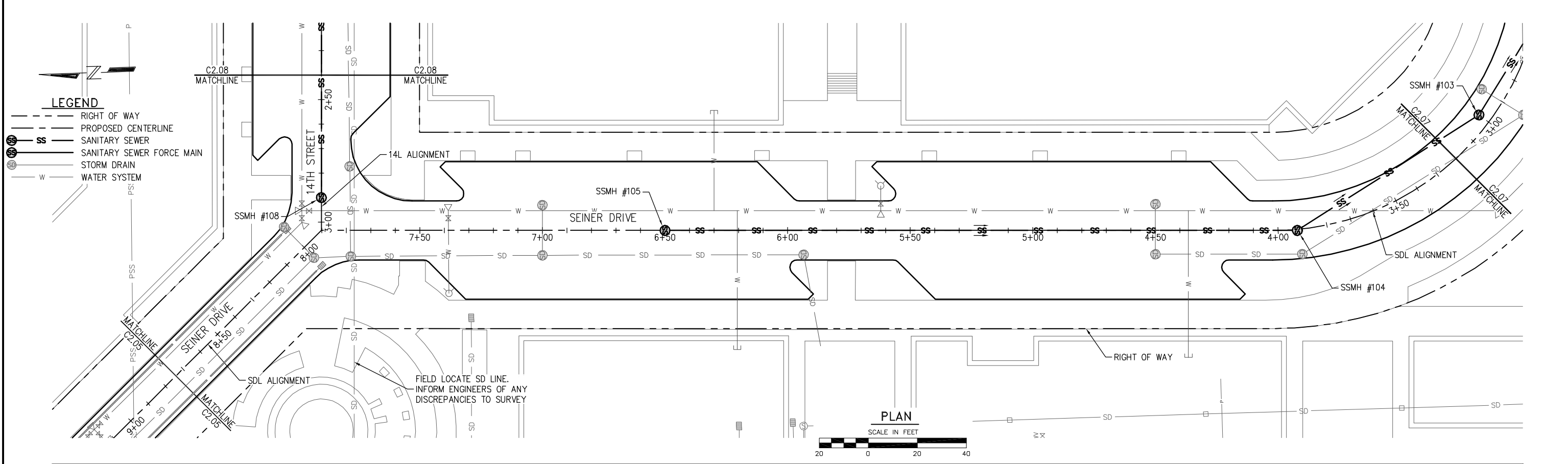
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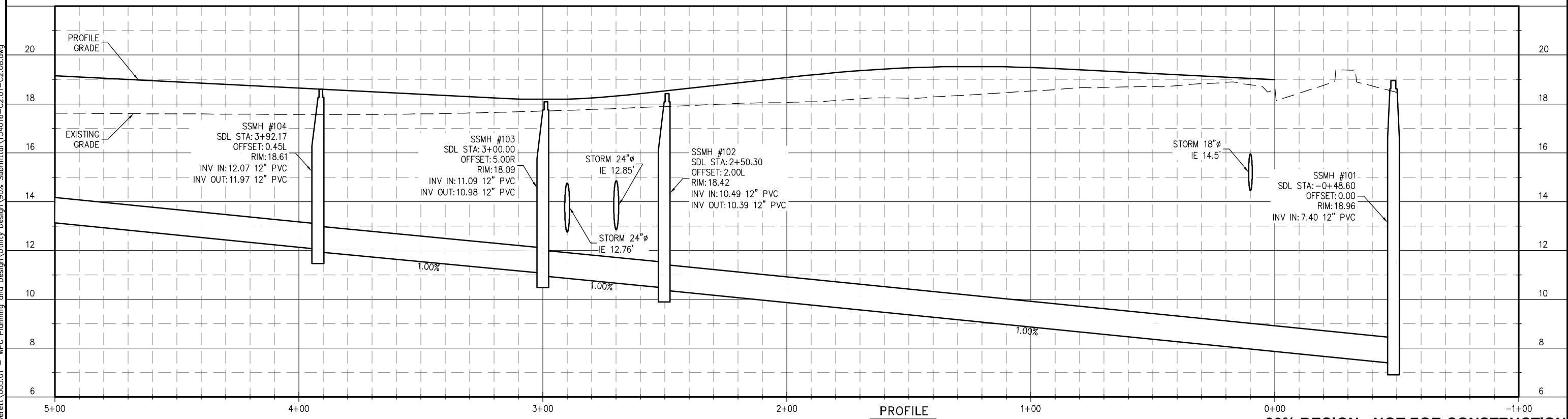
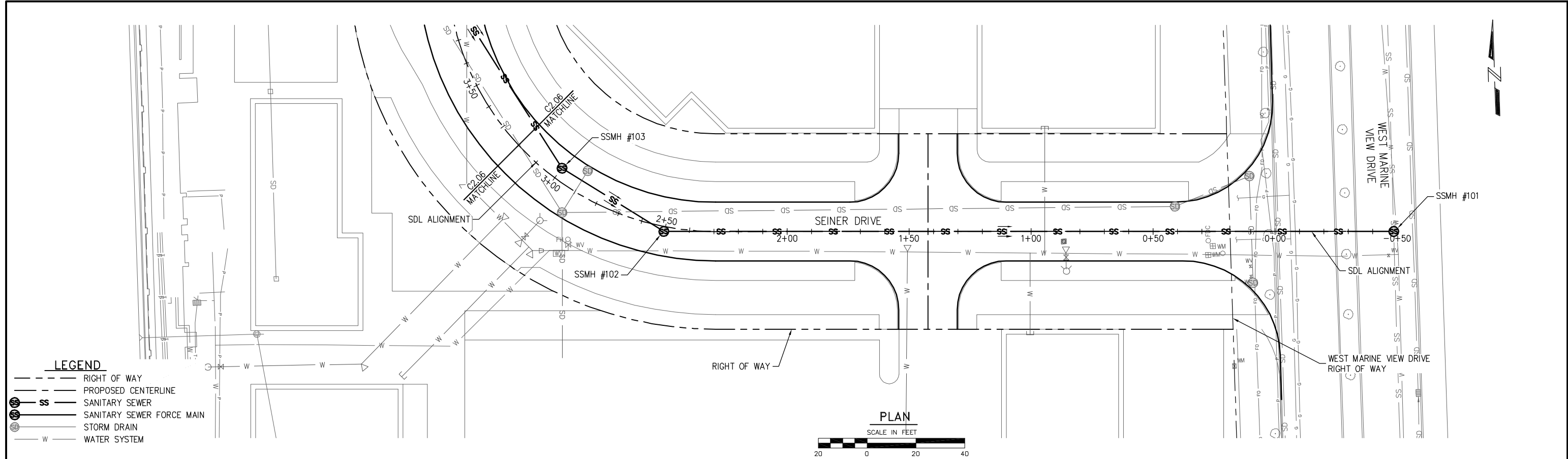
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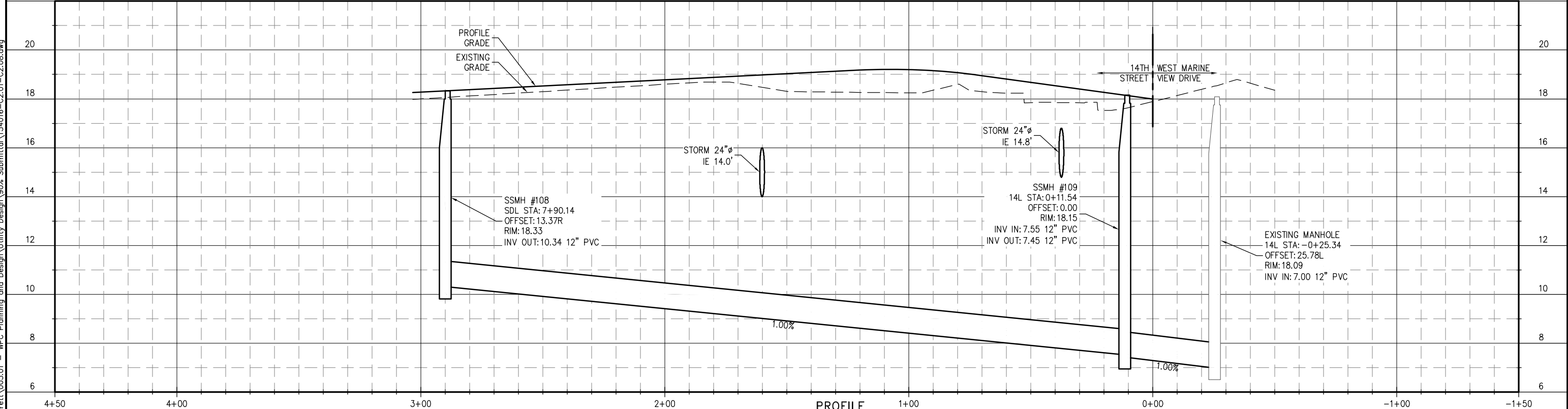
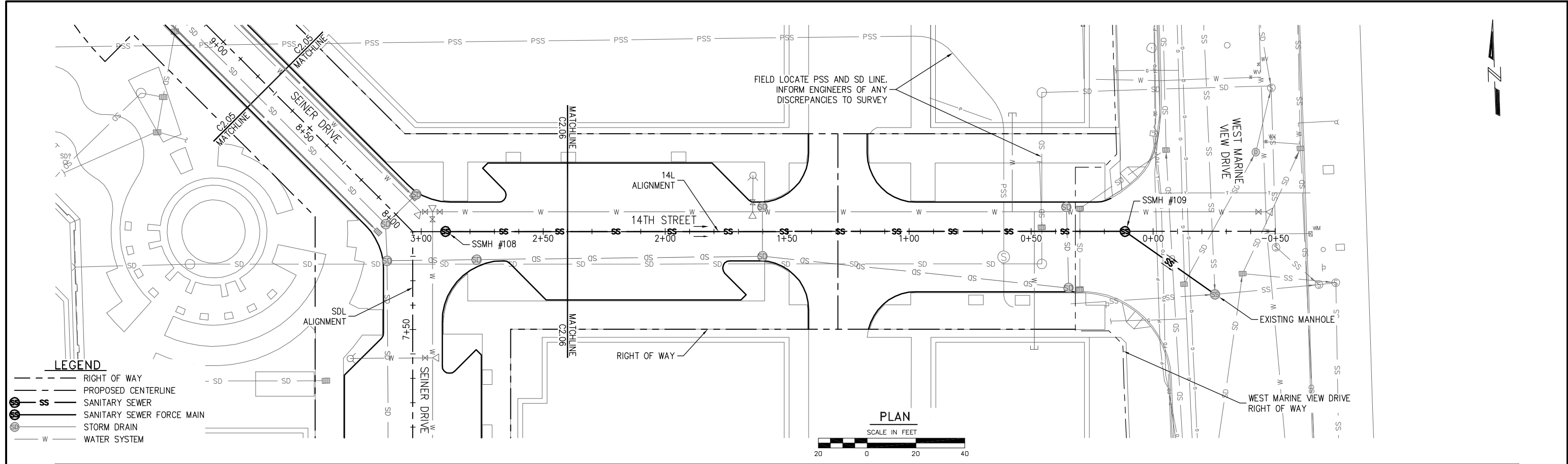
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DESIGNED BY: N. ALEXANDER	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: C. WEST
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PROJECT ENGINEER:
J. KEISER

DESIGNED BY:
N. ALEXANDER

DRAWN BY:
D. McDONALD

APPROVED BY:

SCALE:
NOTED

DATE:
DEC. 2015

CHECKED BY:
C. WEST

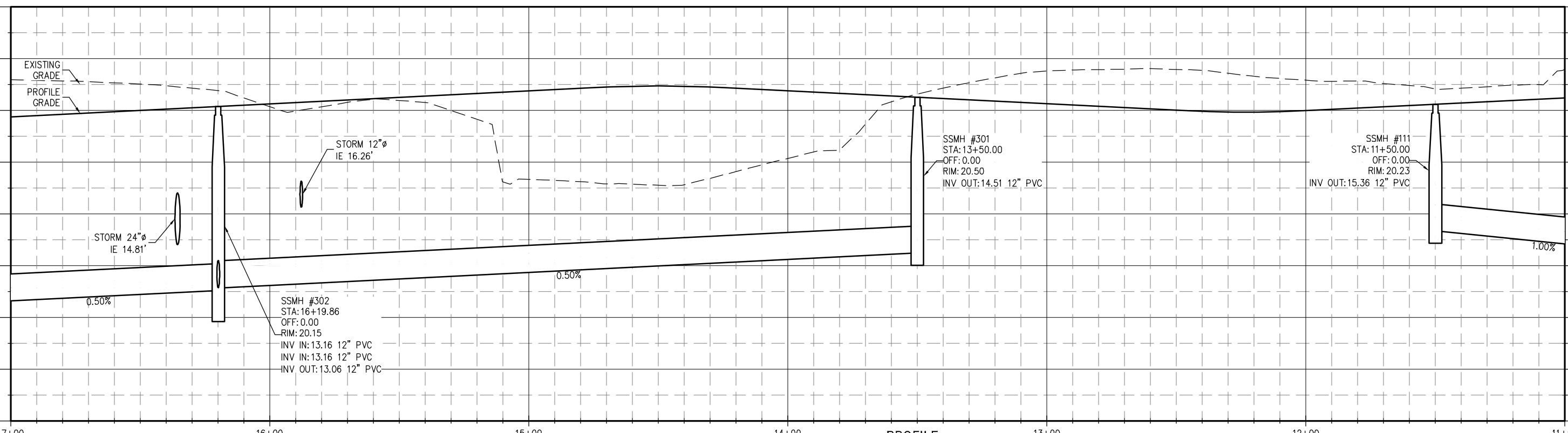
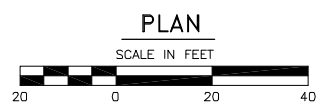
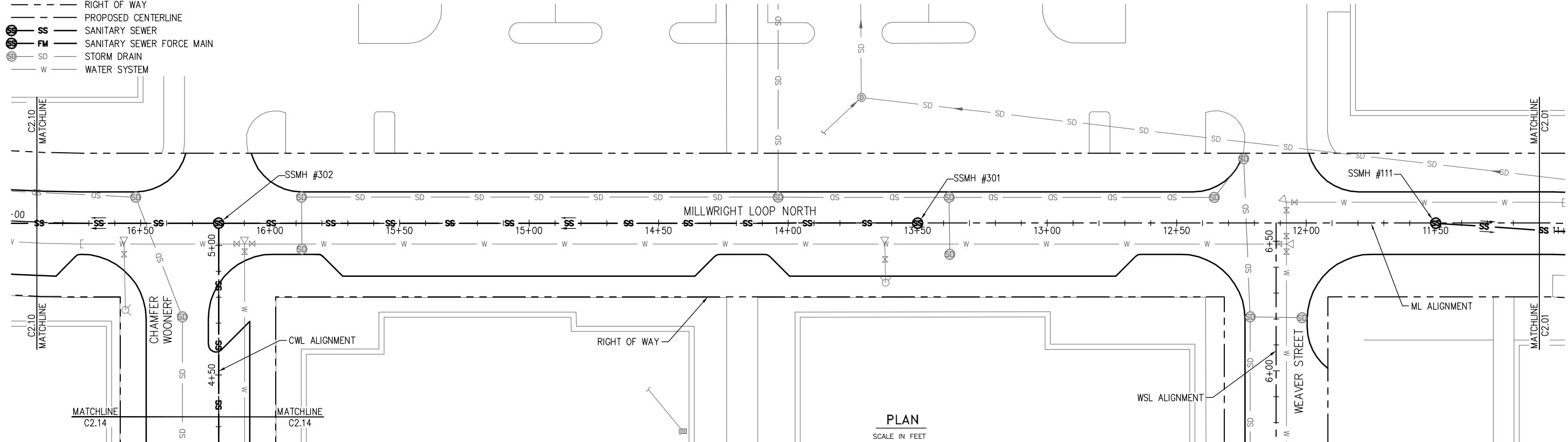
PORT OF EVERETT
WATERFRONT PLACE CENTRAL
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.08
CIP NO.	--
PROJECT NO.	--
SHEET NO.	41 OF

K:\2015\154016 - Port of Everett\005.01 - WPC Planning and Design\Utility Design\90% Submittal\154016-C2.01-C2.08.dwg

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS SANITARY SEWER
- FM SANITARY SEWER FORCE MAIN
- SD STORM DRAIN
- W WATER SYSTEM



PROFILE
1H:10V

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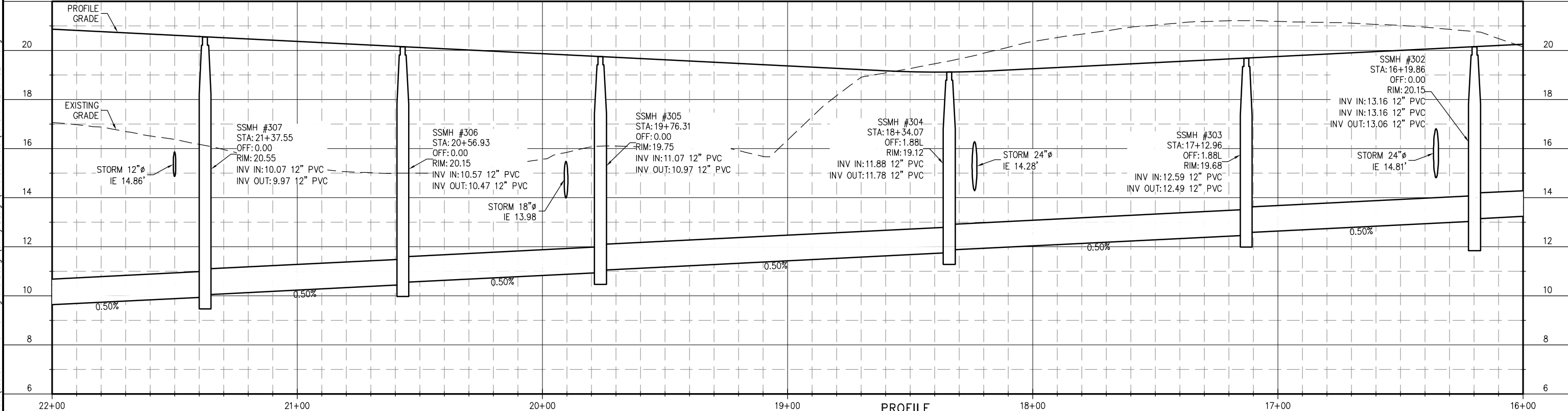
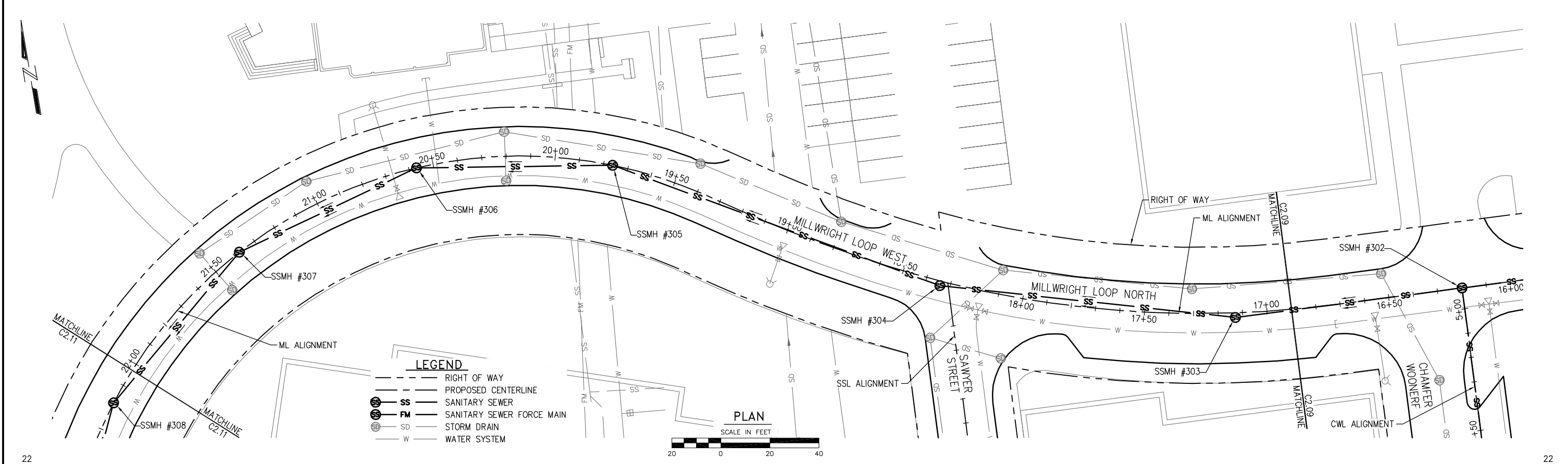
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.09
CIP NO.	--
PROJECT NO.	--
SHEET NO.	42 OF

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PROJECT ENGINEER:
J. KEISER

DESIGNED BY:
C. WIEST

DRAWN BY:
D. McDONALD

APPROVED BY:

SCALE:
NOTED

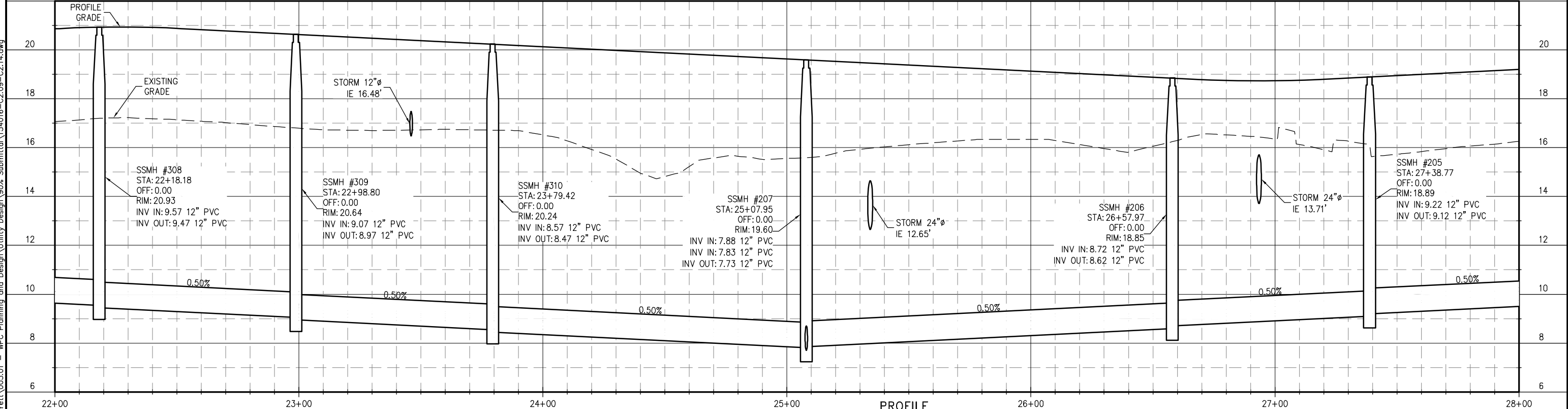
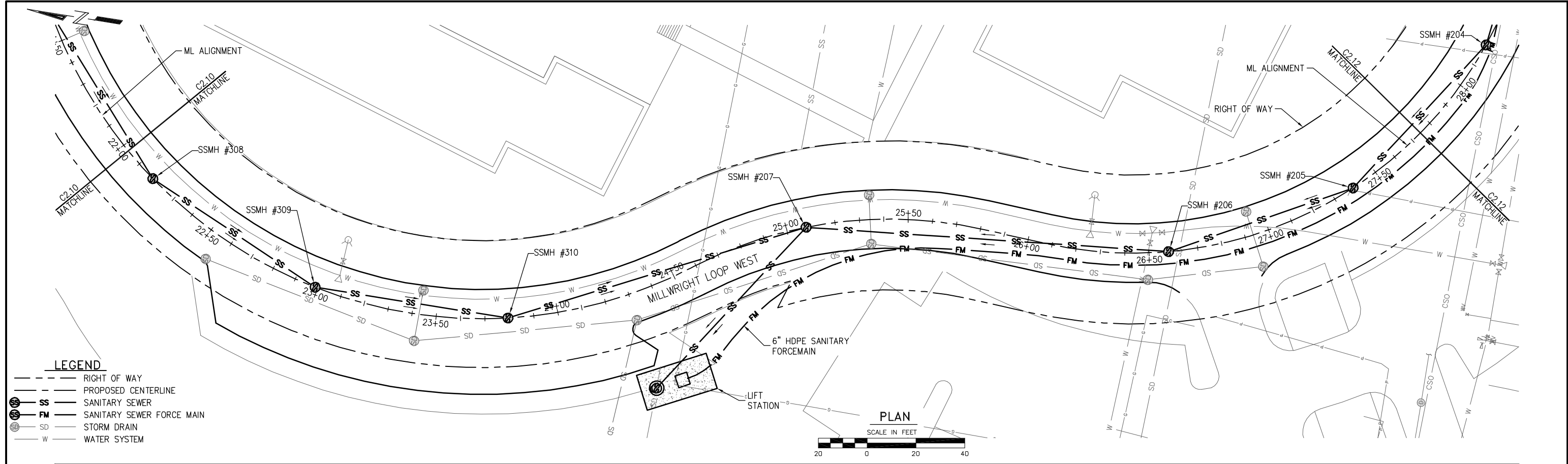
DATE:
DEC. 2015

CHECKED BY:
N. ALEXANDER

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.10
CIP NO.	--
PROJECT NO.	--
SHEET NO.	43 OF

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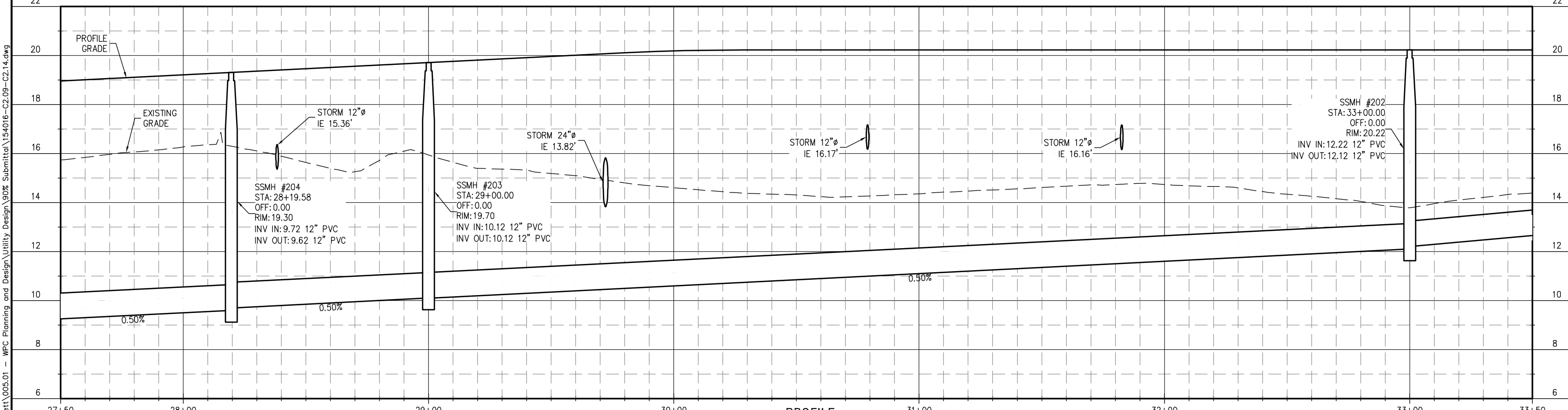
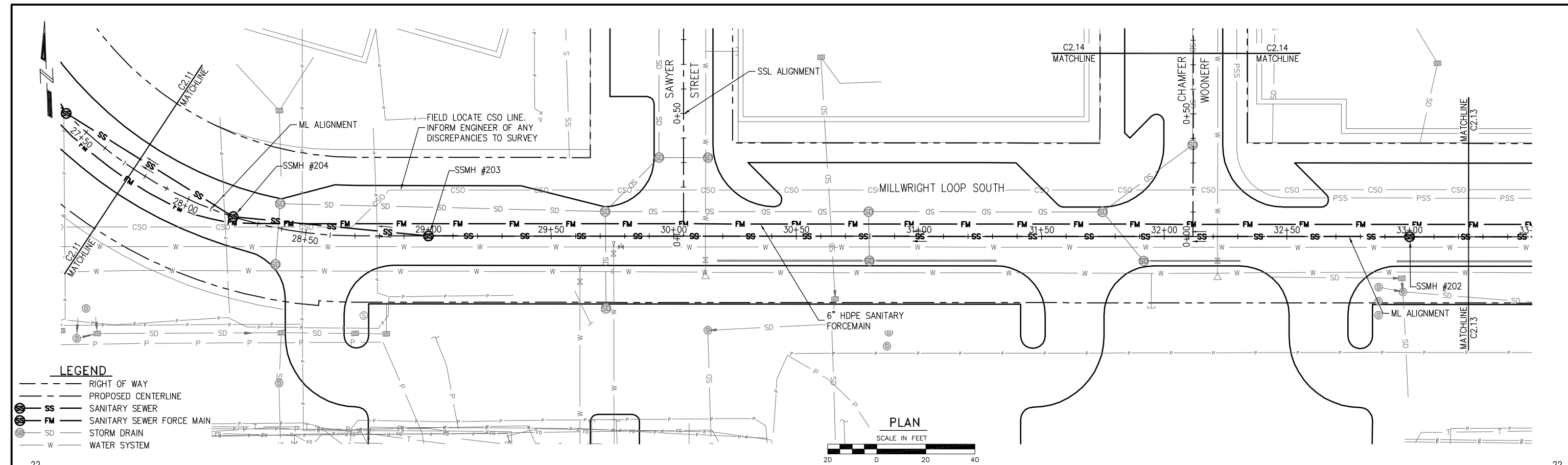
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.11
CIP NO.	--
PROJECT NO.	--
SHEET NO.	44 OF

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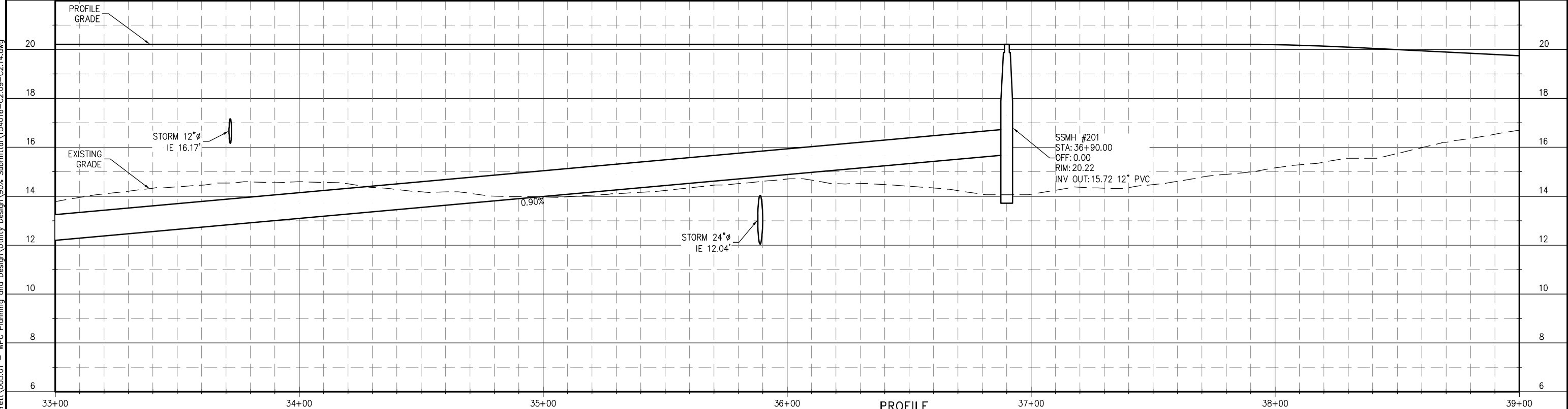
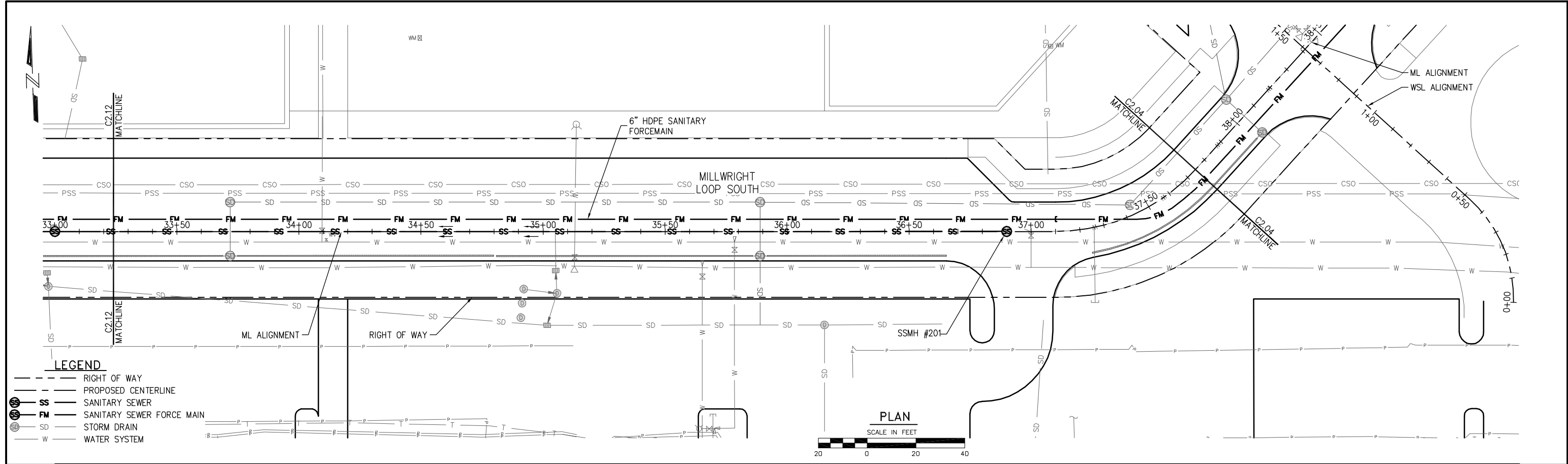
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.12
CIP NO.	--
PROJECT NO.	--
SHEET NO.	45 OF

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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT

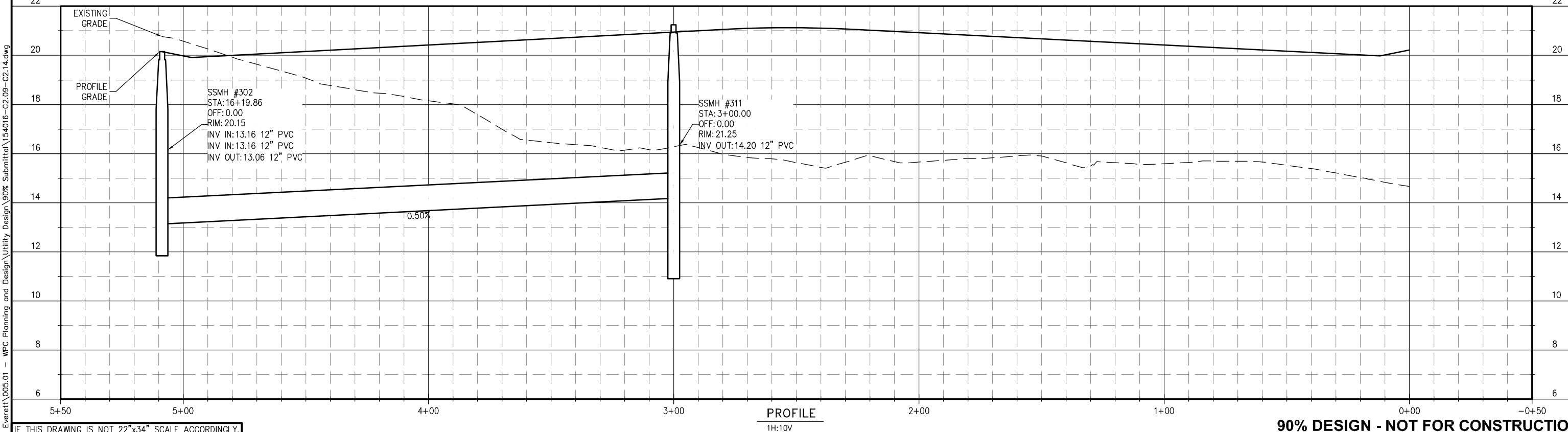
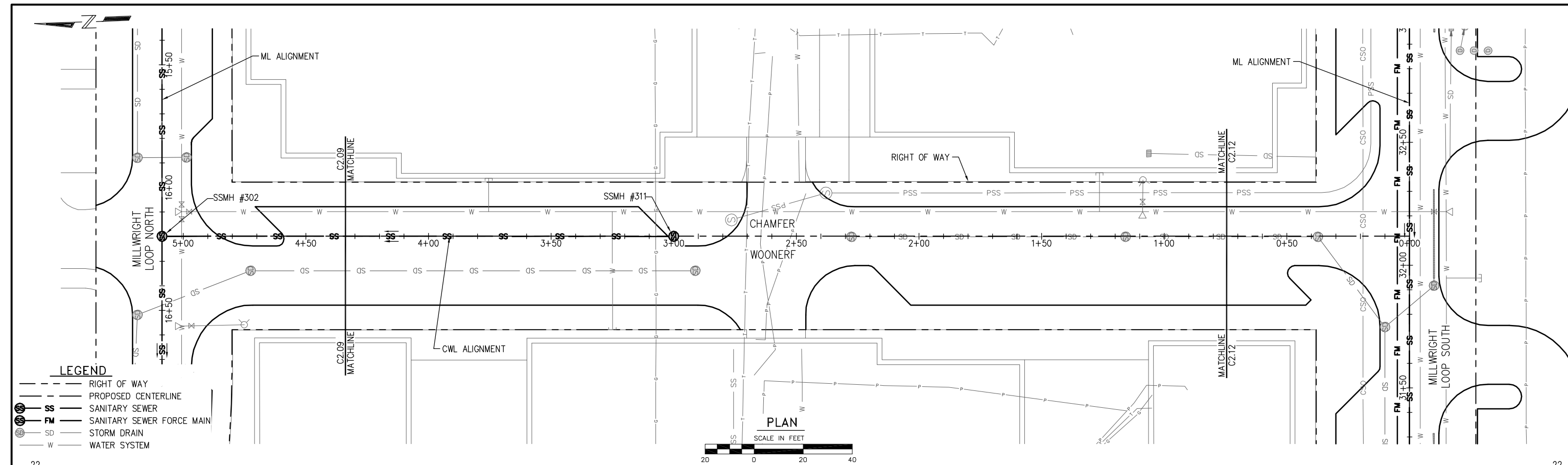
WATERFRONT PLACE

MASTER UTILITY DESIGN

SEWER PLAN AND PROFILE

DWG. NO.	C2.13
CIP NO.	--
PROJECT NO.	--
SHEET NO.	46 OF

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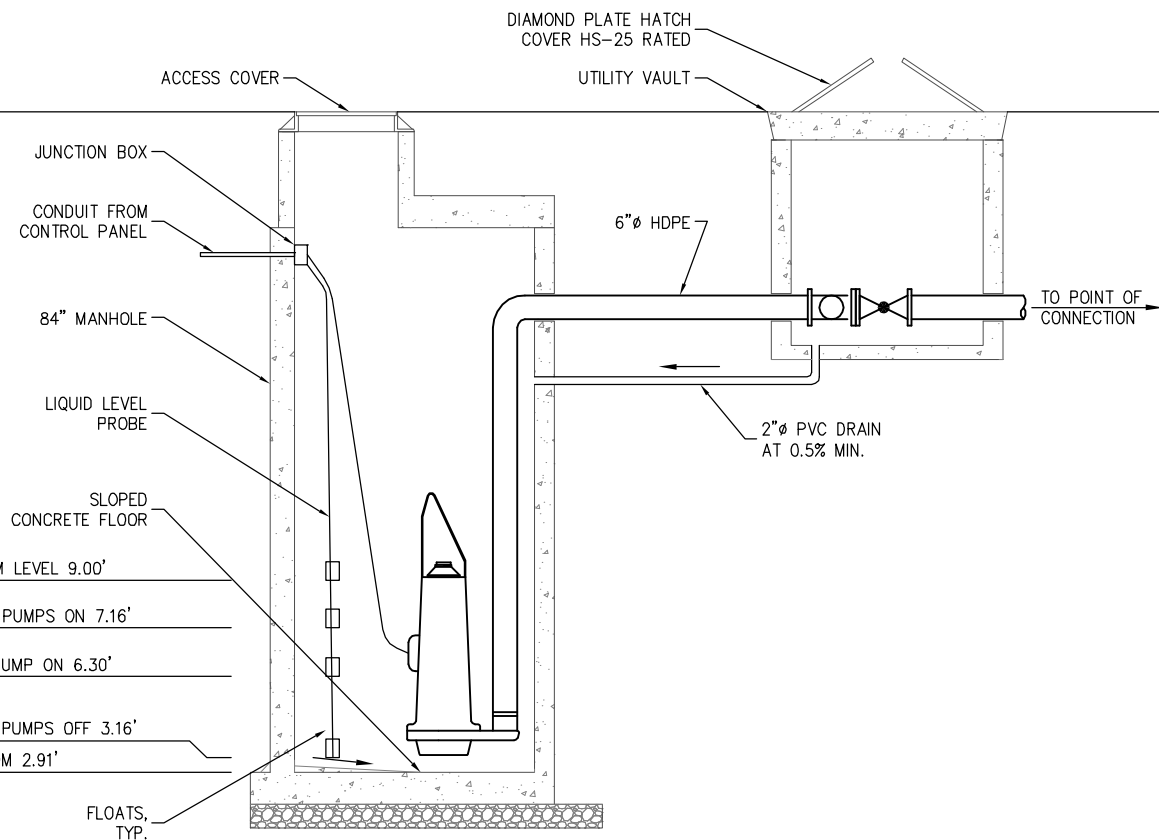
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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

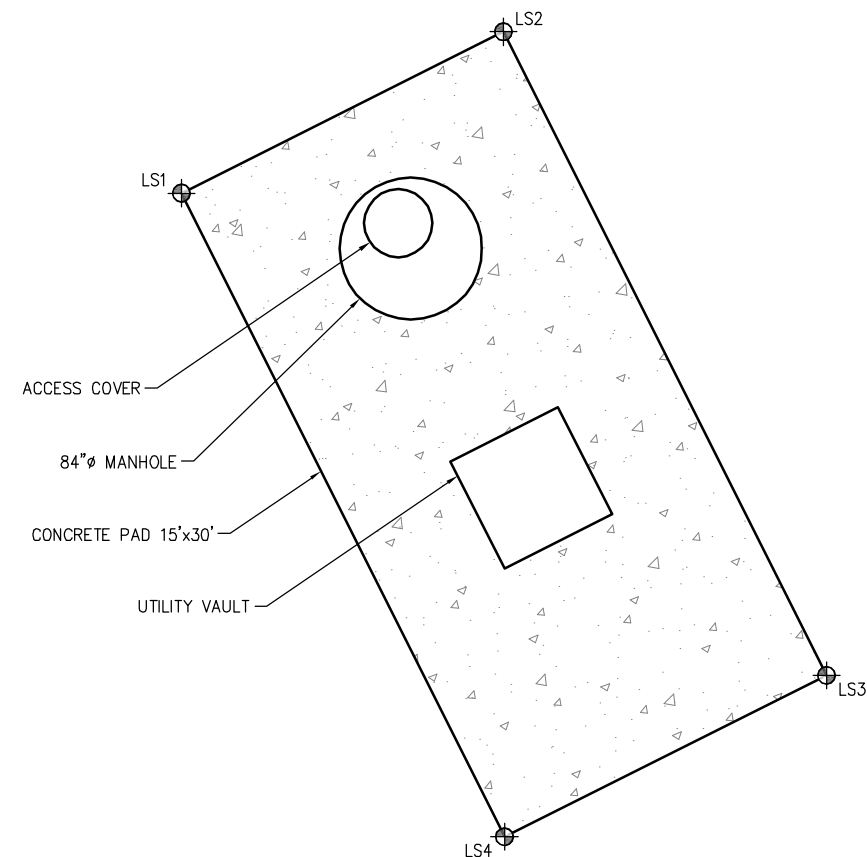
PORT OF EVERETT
WATERFRONT PLACE
MASTER UTILITY DESIGN
SEWER PLAN AND PROFILE

DWG. NO.	C2.14
CIP NO.	--
PROJECT NO.	--
SHEET NO.	47 OF

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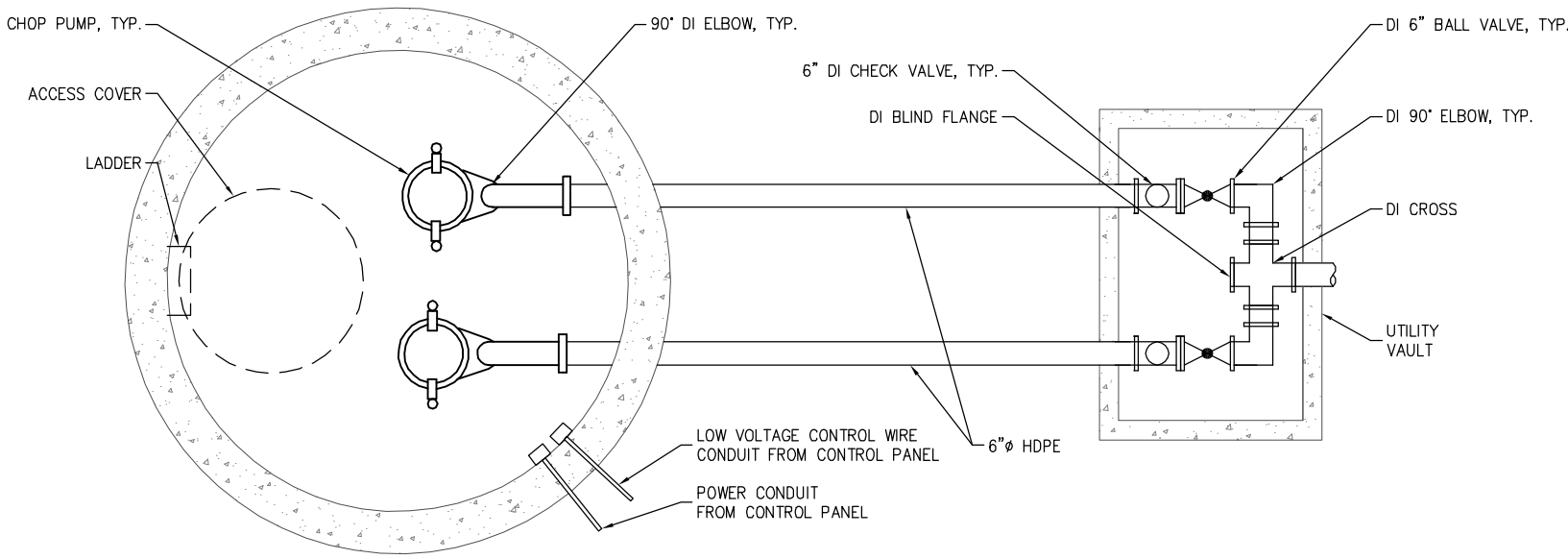


LIFT STATION ELEVATION



LIFT STATION PAD

LIFT STATION TABLE		
POINT	NORTHING	EASTING
LS1	367972.4932	130297.8285
LS2	367979.2155	1300311.2379
LS3	367952.4006	1300324.6902
LS4	367945.6784	1300311.2808



LIFT STATION PLAN

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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: NOV. 2015
DRAWN BY: D. McDONALD	CHECKED BY: N. ALEXANDER
APPROVED BY:	

PORT OF EVERETT
 WATERFRONT PLACE
 MASTER UTILITY DESIGN
 SEWER PUMP STATION DETAILS

DWG. NO.	C2.15
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

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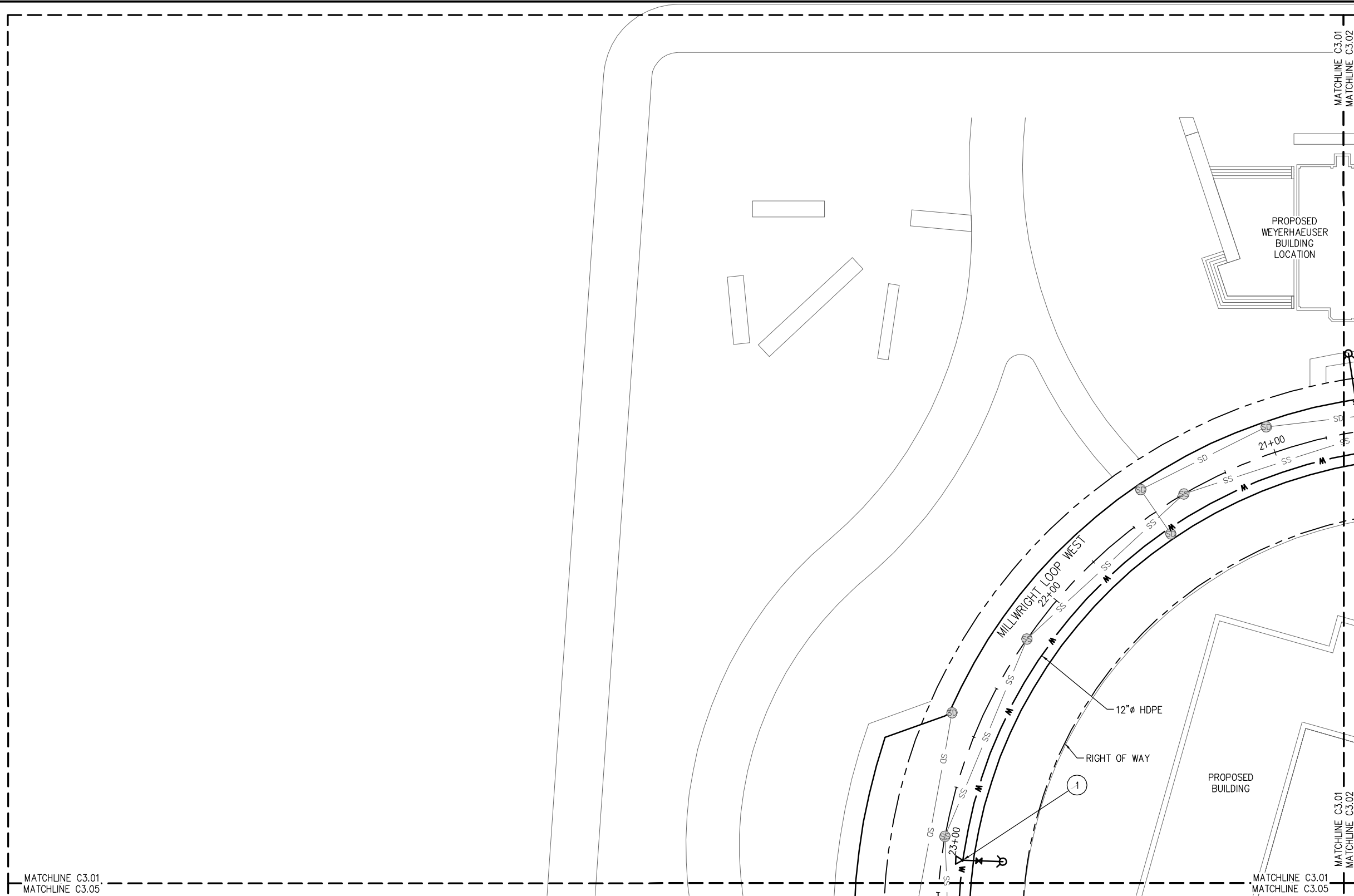
K:\2015\154016 - Port of Everett\005.01 - WPC Planning and Design\Utility Design\90% Submittal\154016-C3.00.dwg

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

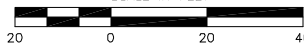
NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
- (1) 12"x12"x6" DI TEE (FLxFLxFL)
- (1) 6" DI GATE VALVE (FLxFL) w/ VALVE BOX
- (1) FH ASSEMBLY, 6" DI LEAD THRUST BLOCK



PLAN

SCALE IN FEET



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

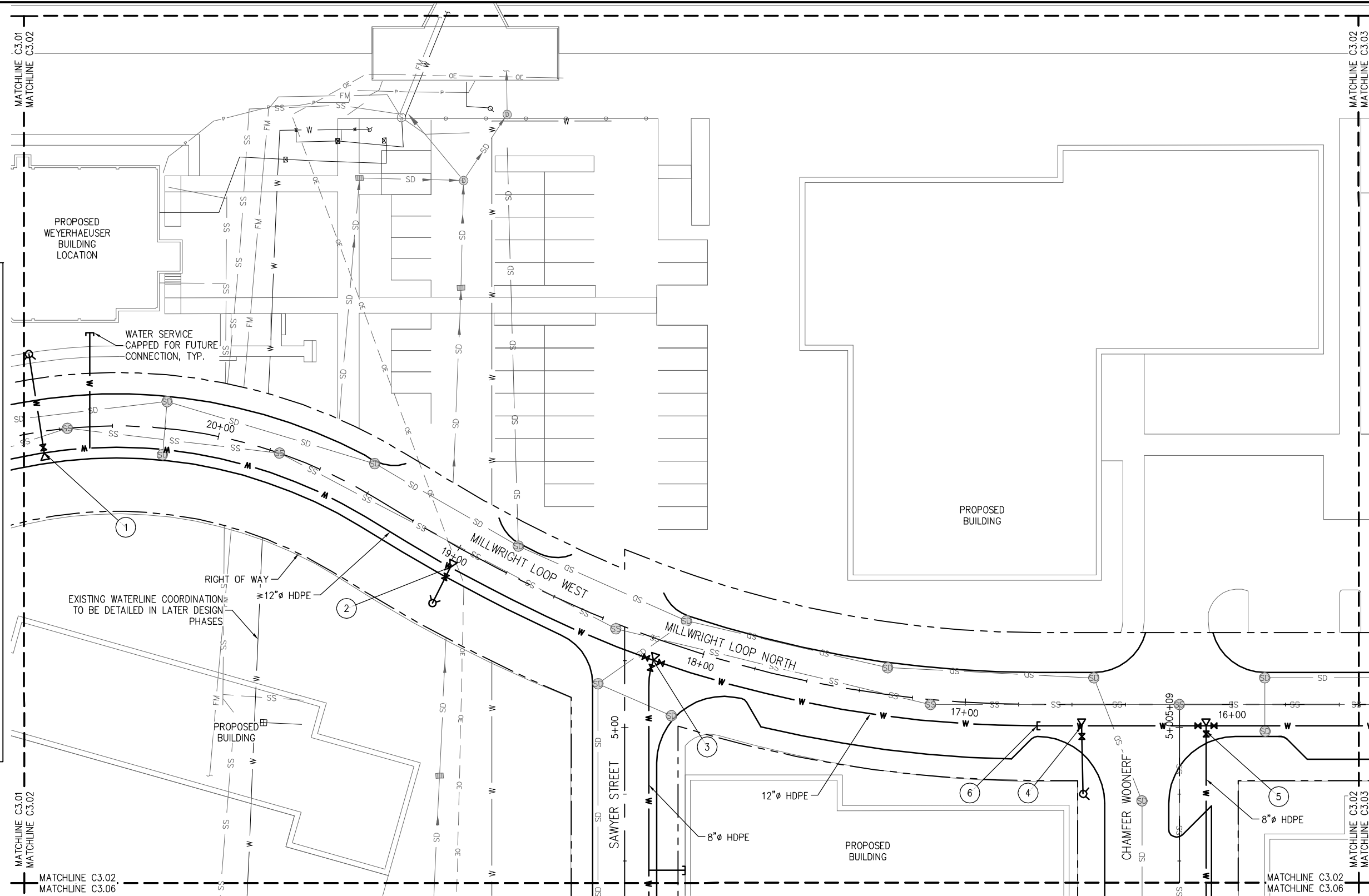
DWG. NO.	C3.01
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

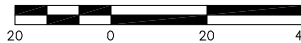
NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 2 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 3 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 8" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x8" DI TEE (FLxFLxFL)
(2) 12" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) 8" DI GATE VALVE (FLxFL) w/
VALVE BOX
THRUST BLOCK
- 4 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 5 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 8" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x8" DI TEE (FLxFLxFL)
(2) 12" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) 8" DI GATE VALVE (FLxFL) w/
VALVE BOX
THRUST BLOCK
- 6 PROPOSED PHASING POINT OF
CONNECTION.
REMOVE EXISTING BLIND FLANGE.
CONNECT TO EXISTING 12" HDPE.



PLAN

SCALE IN FEET



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

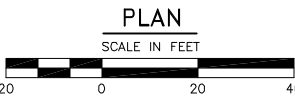
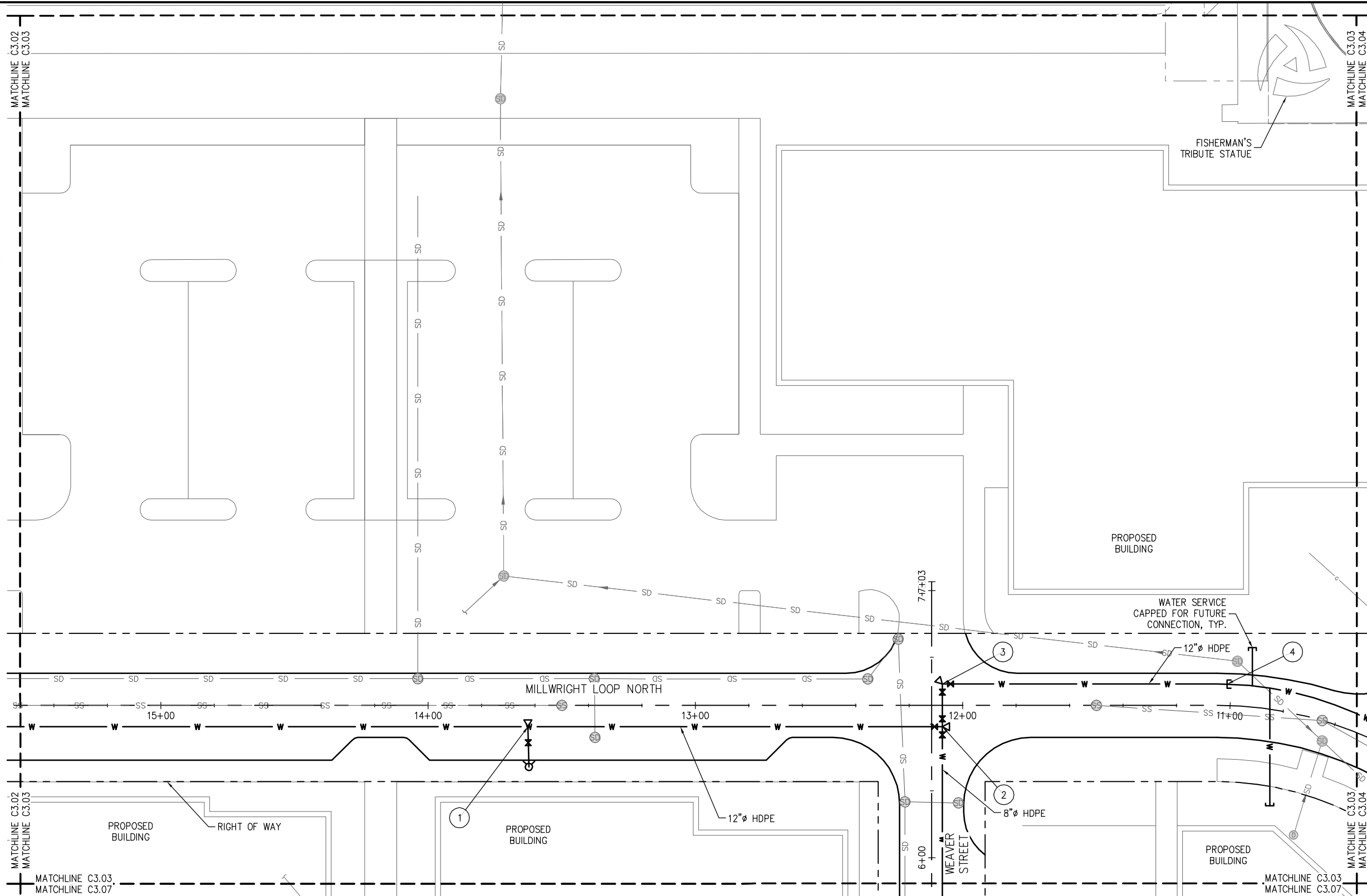
DWG. NO.	C3.02
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS SANITARY SEWER
- FM SANITARY SEWER FORCE MAIN
- SD STORM DRAIN
- W WATER SYSTEM

NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 2 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 8" HDPE ADAPTORS (WLxFL)
(1) 12"x8"x12" DI TEE (FLxFLxFL)
(2) 12" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) 8" DI GATE VALVE (FLxFL) w/
VALVE BOX
THRUST BLOCK
- 3 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 90° ELBOW (FLxFL)
THRUST BLOCK
- 4 PROPOSED PHASING POINT OF
CONNECTION.
REMOVE EXISTING BLIND FLANGE.
CONNECT TO EXISTING 12" HDPE.



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.03
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

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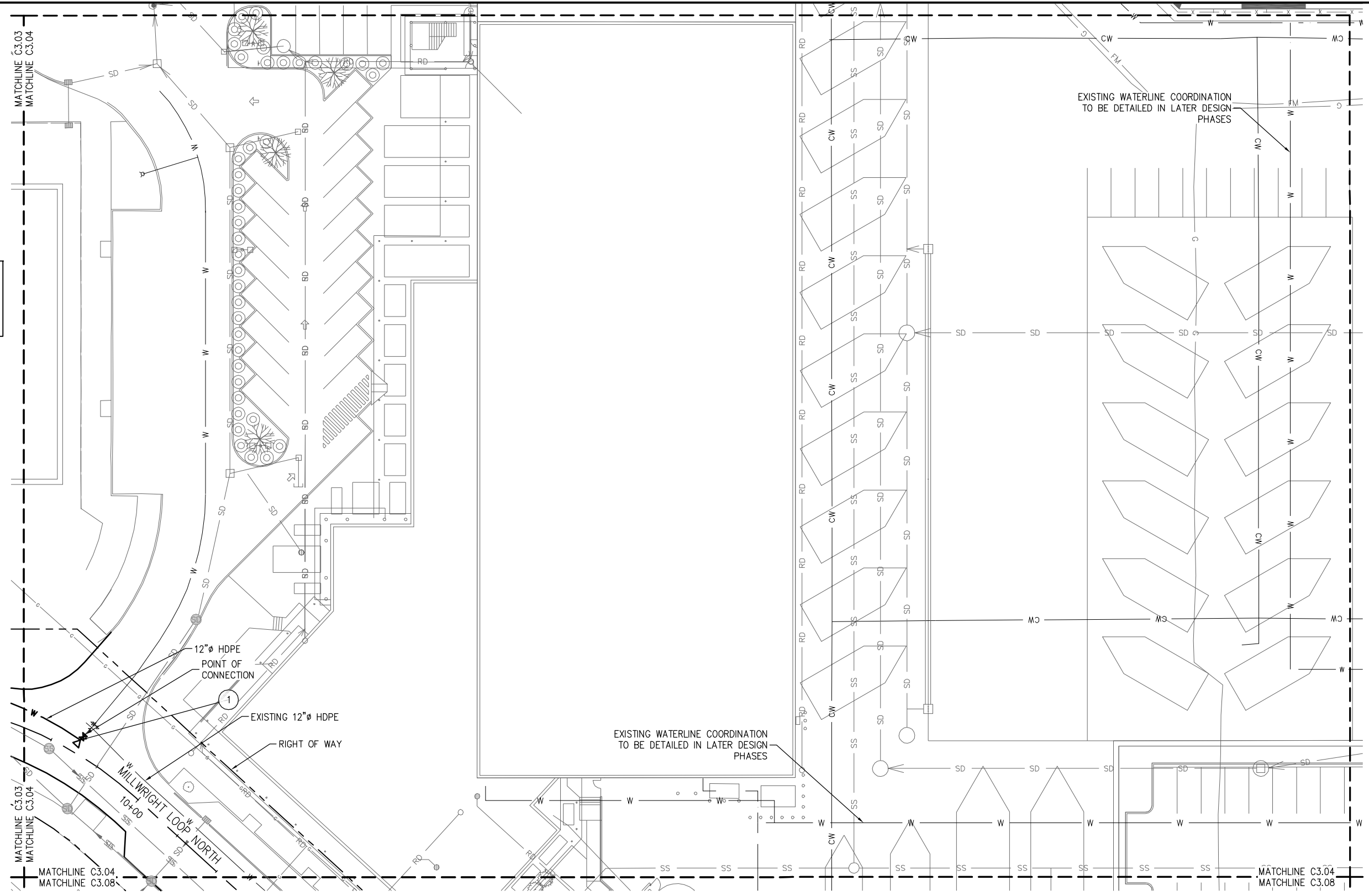
K:\2015\154016 - Port of Everett\005.01 - WPC Planning and Design\Utility Design\90% Submittal\154016-C3.00.dwg

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

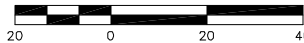
NOTES

1. CONNECT TO EXISTING
2. 12" HDPE ADAPTORS (WLxFL)
1. 12" DI GATE VALVE (FLxFL) w/ VALVE BOX
1. 12" DI 90° ELBOW (FLxFL) THRUST BLOCK



PLAN

SCALE IN FEET



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.04
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVE (FLxFL) w/
VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 2 CONNECT TO EXISTING
(3) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x12" DI TEE (FLxFLxFL)
(3) 12" DI GATE VALVE (FLxFL) w/
VALVE BOX
THRUST BLOCK

MATCHLINE C3.01
MATCHLINE C3.05

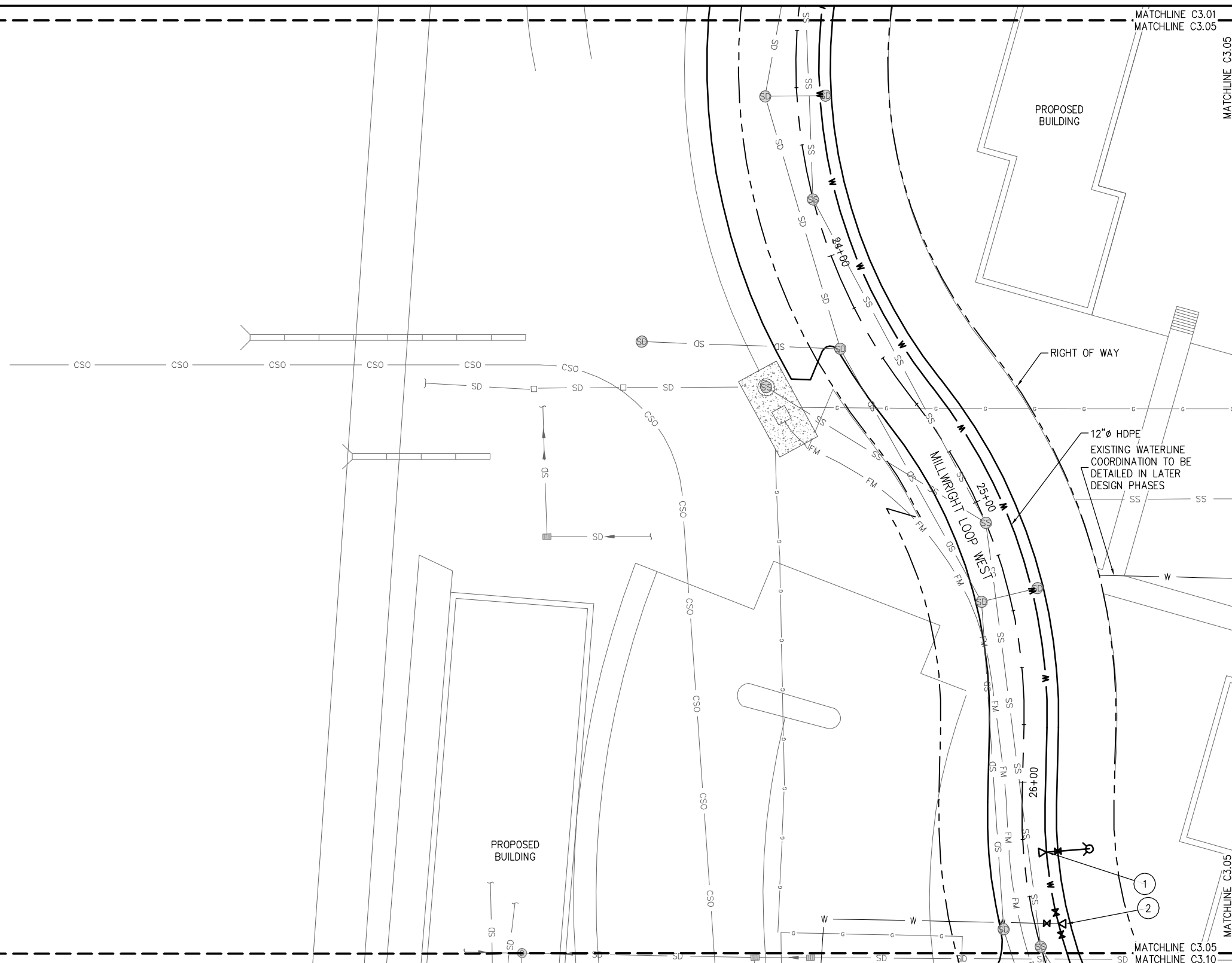
MATCHLINE C3.01
MATCHLINE C3.05

MATCHLINE C3.05
MATCHLINE C3.06

MATCHLINE C3.05
MATCHLINE C3.10

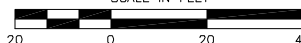
MATCHLINE C3.05
MATCHLINE C3.10

MATCHLINE C3.05
MATCHLINE C3.06



PLAN

SCALE IN FEET



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.05
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

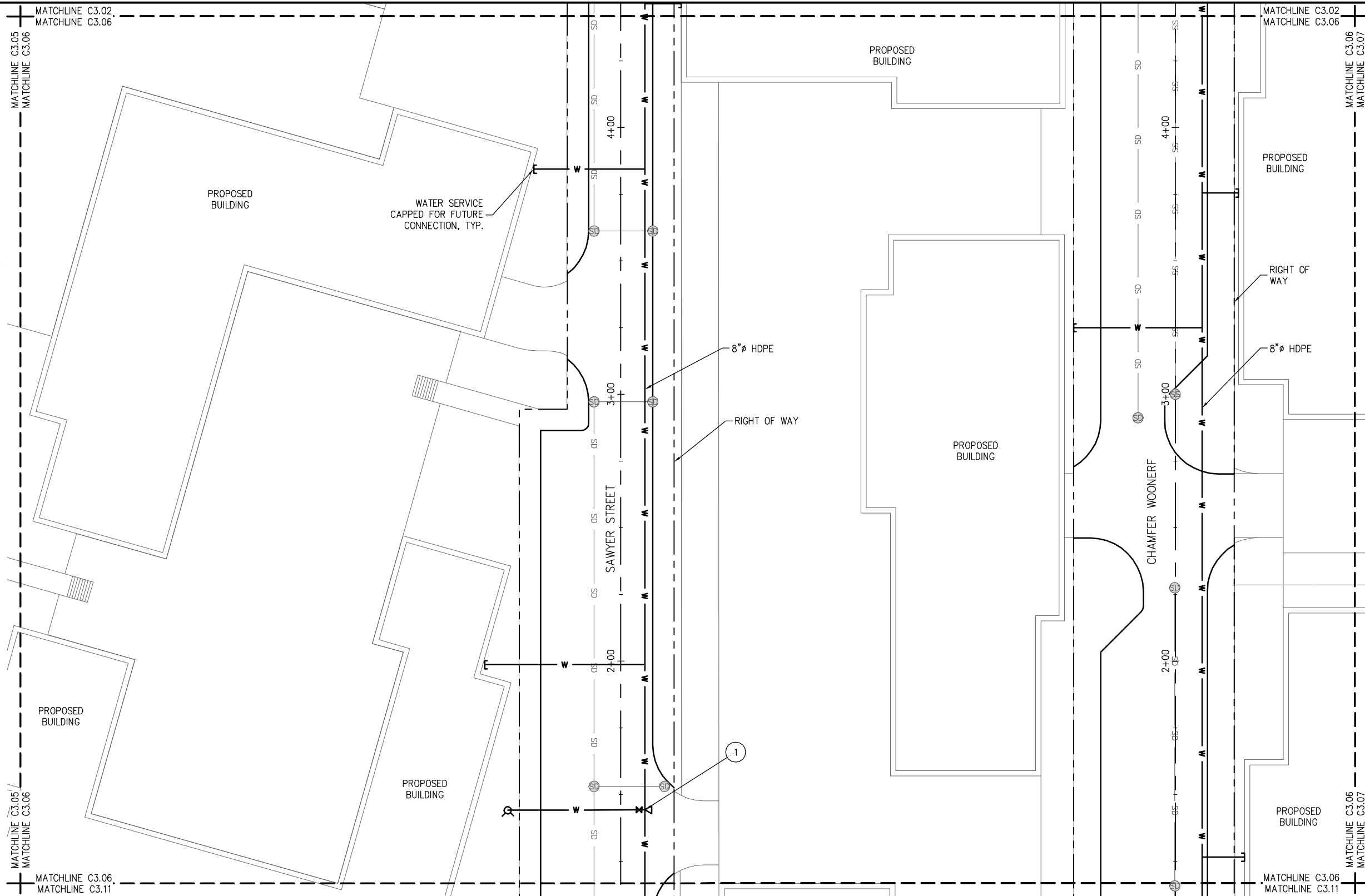
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

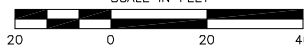
NOTES

- 1 (2) 8" HDPE ADAPTORS (WLxFL)
 (1) 8"x8"x6" DI TEE (FLxFLxFL)
 (1) 6" DI GATE VALVE (FLxFL) w/
 VALVE BOX
 (1) FH ASSEMBLY, 6" DI LEAD
 THRUST BLOCK



PLAN

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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
 MASTER UTILITY DESIGN
 MASTER UTILITY DESIGN
 WATER SYSTEM PLAN

DWG. NO.	C3.06
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

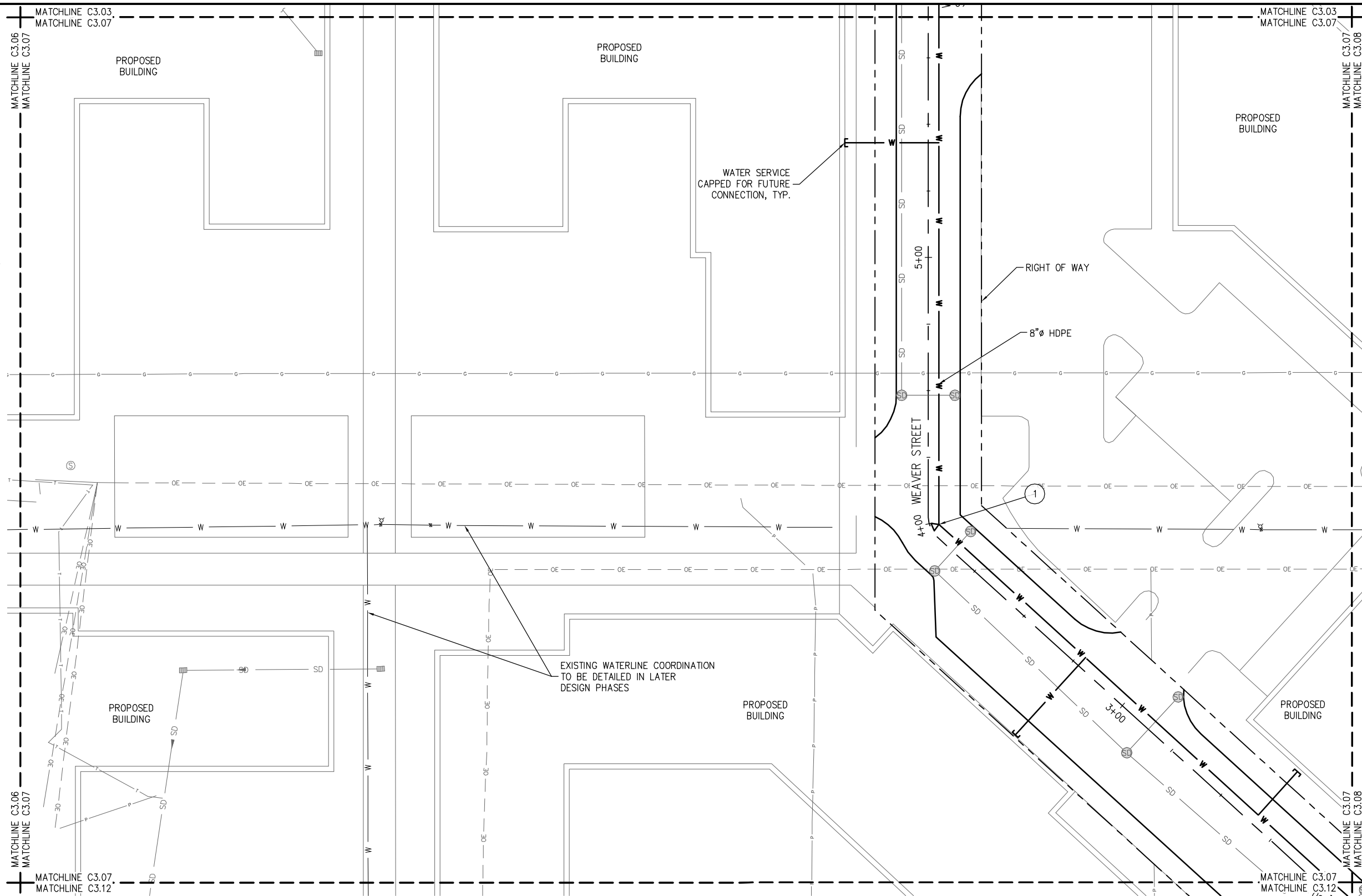
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

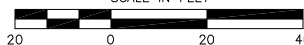
NOTES

- 1 (2) 8" HDPE ADAPTORS (WLxFL)
- (1) 8" DI 45° ELBOW (FLxFL)
- THRUST BLOCK



PLAN

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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.07
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

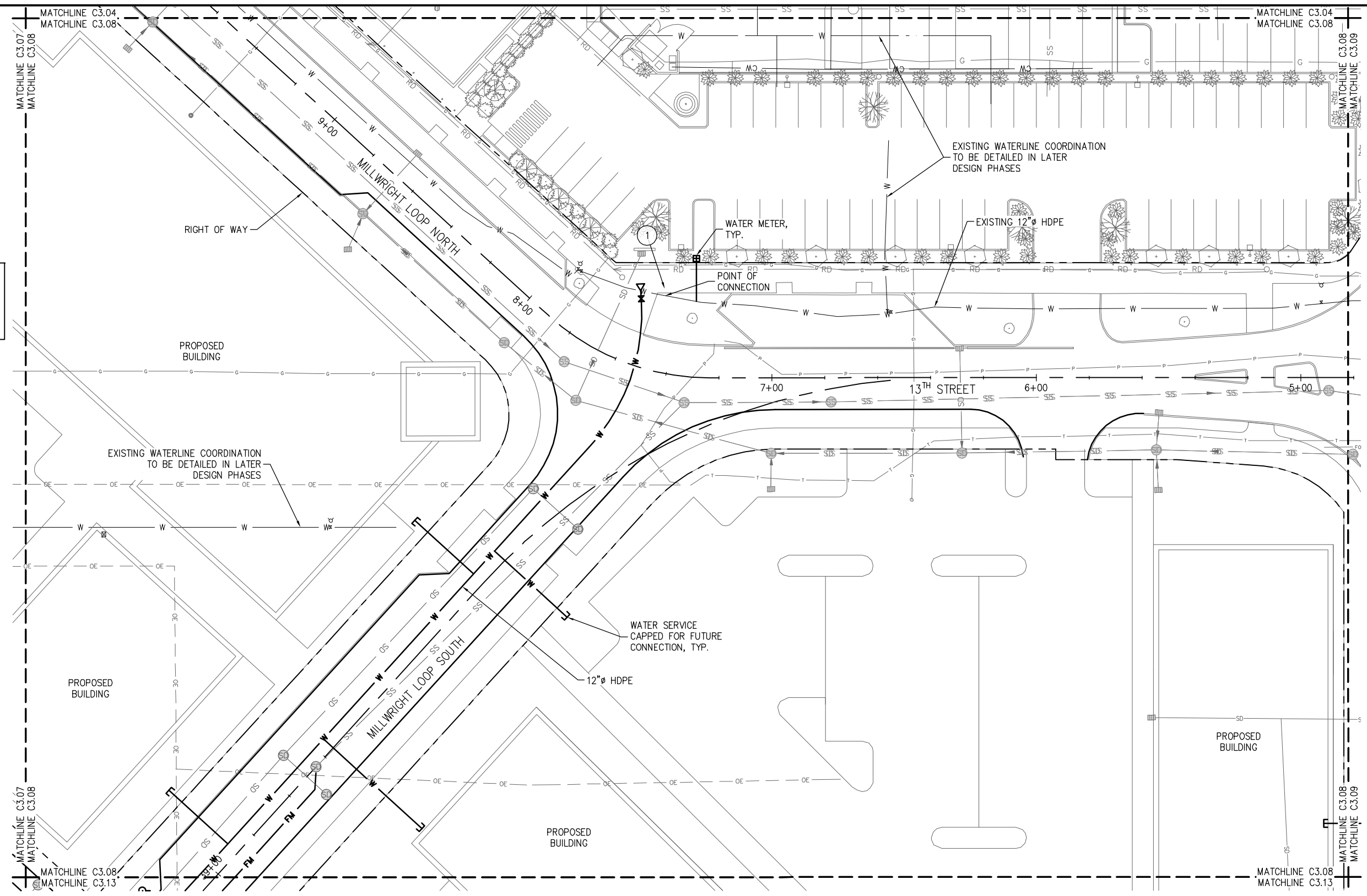
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 CONNECT TO EXISTING
 (3) 12" HDPE ADAPTORS (WLxFL)
 (1) 12"x12"x12" DI CROSS (FLxFLxFL)
 (1) 12" DI GATE VALVES (FLxFL)
 w/ VALVE BOX
 THRUST BLOCK



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DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
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MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.08
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

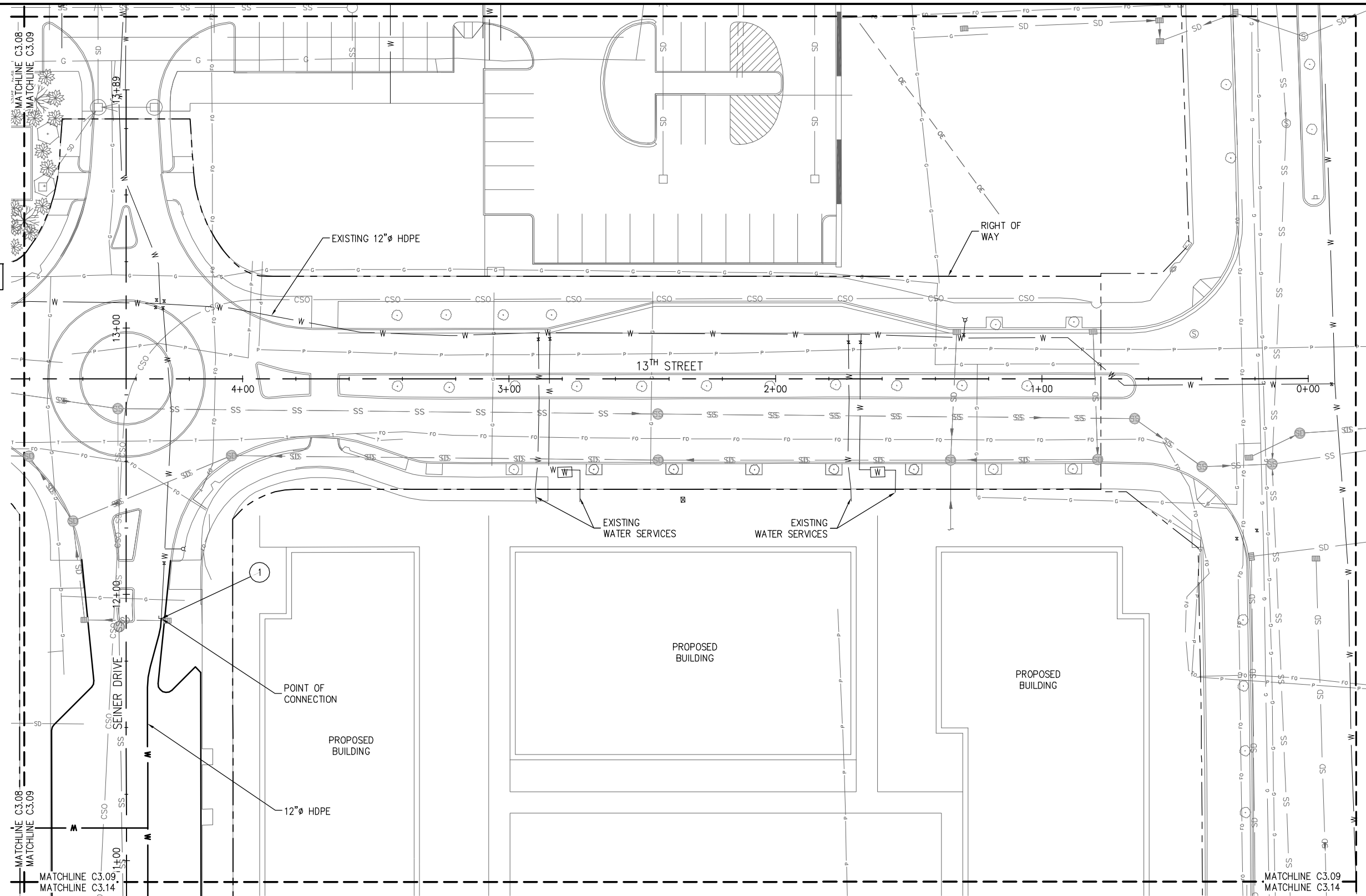
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LEGEND

- RIGHT OF WAY
- - - PROPOSED CENTERLINE
- SS SANITARY SEWER
- FM SANITARY SEWER FORCE MAIN
- SD STORM DRAIN
- W WATER SYSTEM

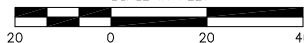
NOTES

- 1 REMOVE EXISTING BLIND FLANGE. CONNECT TO EXISTING 12" HDPE PIPE.



PLAN

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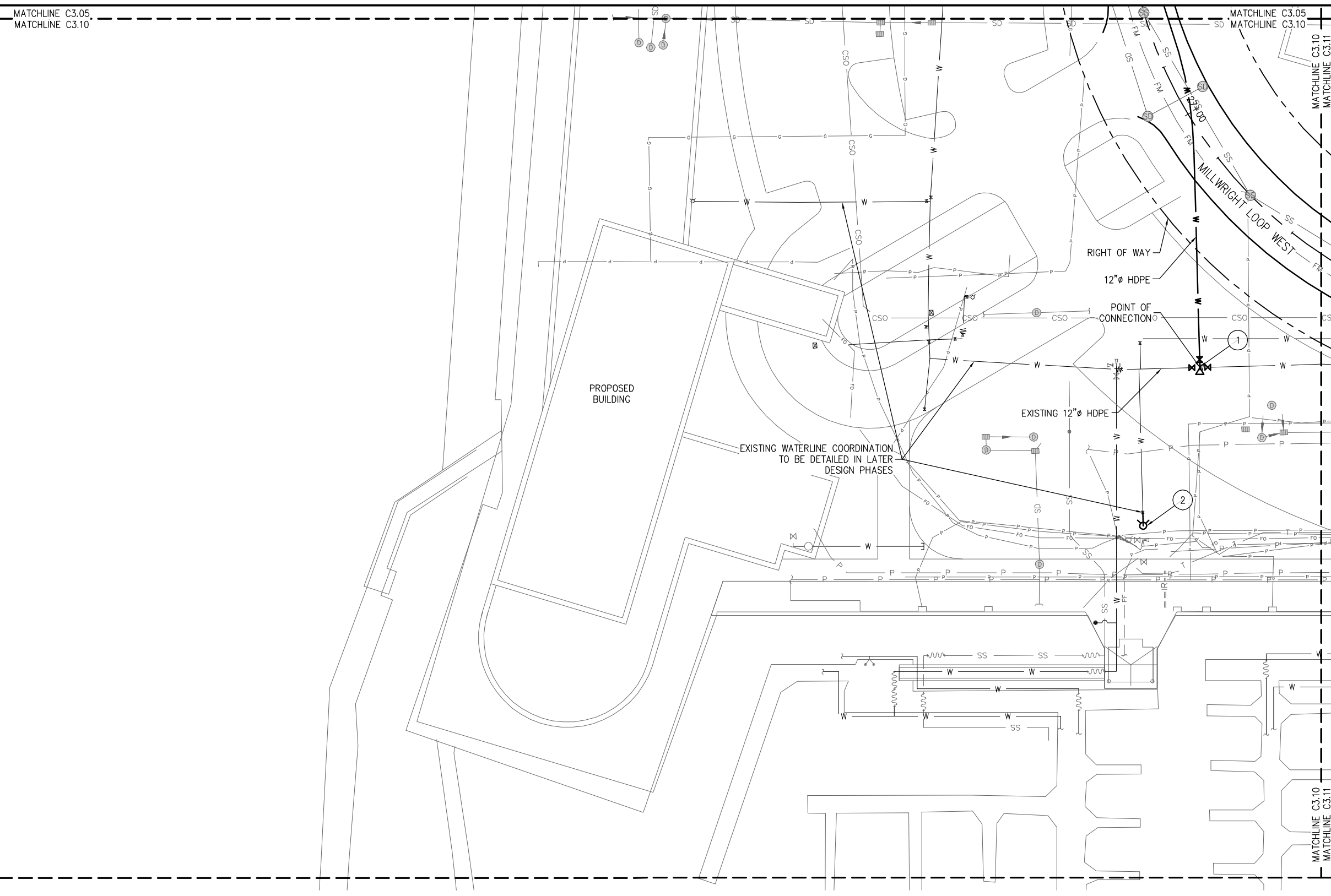
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APPROVED BY:	

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WATER SYSTEM PLAN

DWG. NO.	C3.09
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 CONNECT TO EXISTING
 - (3) 12" HDPE ADAPTORS (WLxFL)
 - (1) 12"x12"x12" DI TEE (FLxFLxFL)
 - (3) 12" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX THRUST BLOCK
- 2 CONNECT TO EXISTING
 - (1) 8"x6" DI REDUCER (FLxFL)
 - (1) 6" DI GATE VALVE
 - (1) FH ASSEMBLY, 6" DI LEAD THRUST BLOCK



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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

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MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO. C3.10	
CIP NO.	--
PROJECT NO.	--
SHEET NO. X OF	

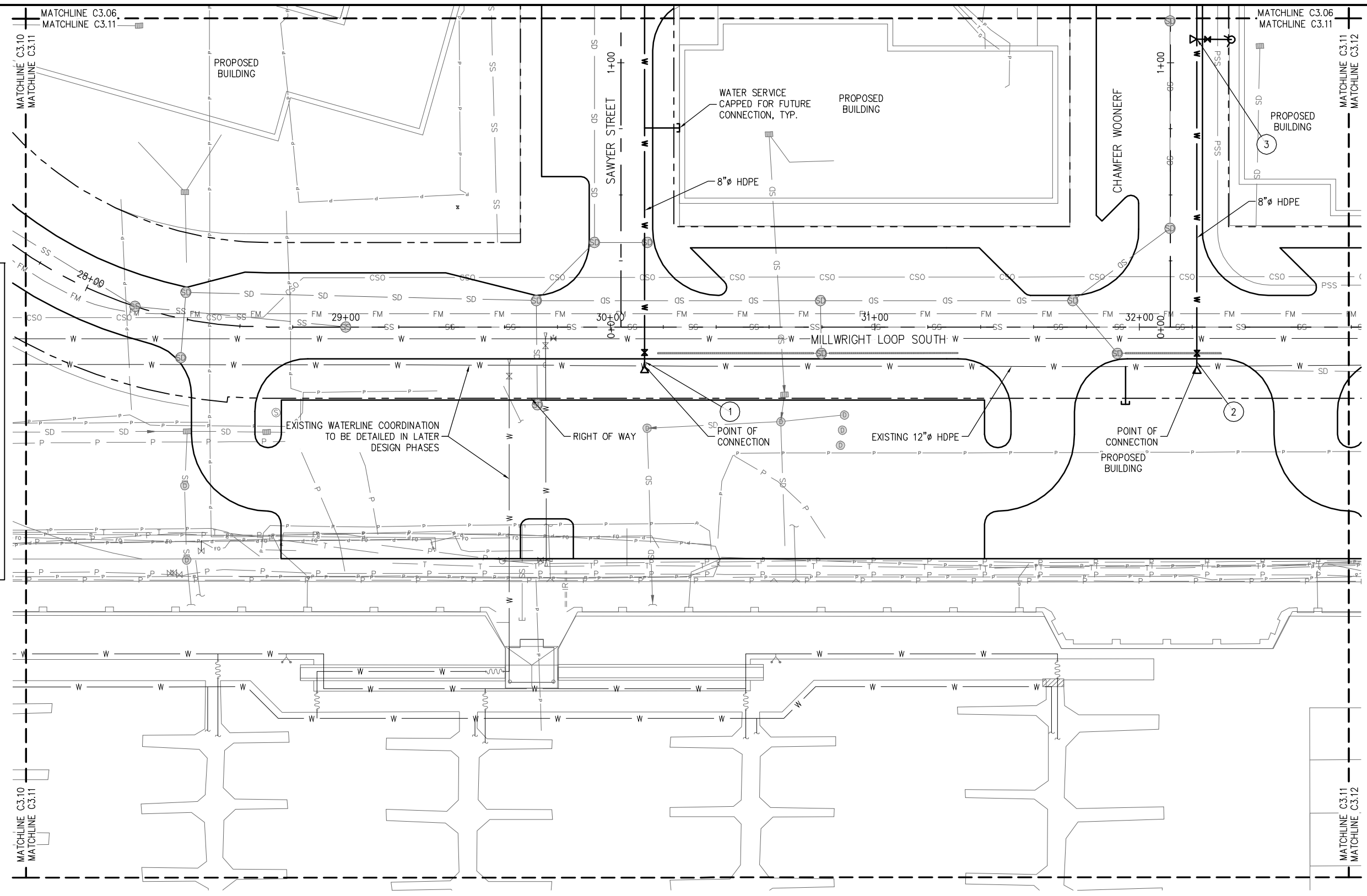
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 CONNECT TO EXISTING
 - (2) 12" HDPE ADAPTORS (WLxFL)
 - (1) 8" HDPE ADAPTORS (WLxFL)
 - (1) 12"x12"x12" DI TEE (FLxFLxFL)
 - (1) 8" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX
 - (2) 12" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX
 - THRUST BLOCK
- 2 CONNECT TO EXISTING
 - (2) 12" HDPE ADAPTORS (WLxFL)
 - (1) 8" HDPE ADAPTORS (WLxFL)
 - (1) 12"x12"x12" DI TEE (FLxFLxFL)
 - (1) 8" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX
 - (2) 12" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX
 - THRUST BLOCK
- 3
 - (2) 8" HDPE ADAPTORS (WLxFL)
 - (1) 8"x8"x8" DI TEE (FLxFLxFL)
 - (1) 6" DI GATE VALVES (FLxFL)
 - w/ VALVE BOX
 - (1) FH ASSEMBLY, 6" DI LEAD
 - THRUST BLOCK



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APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

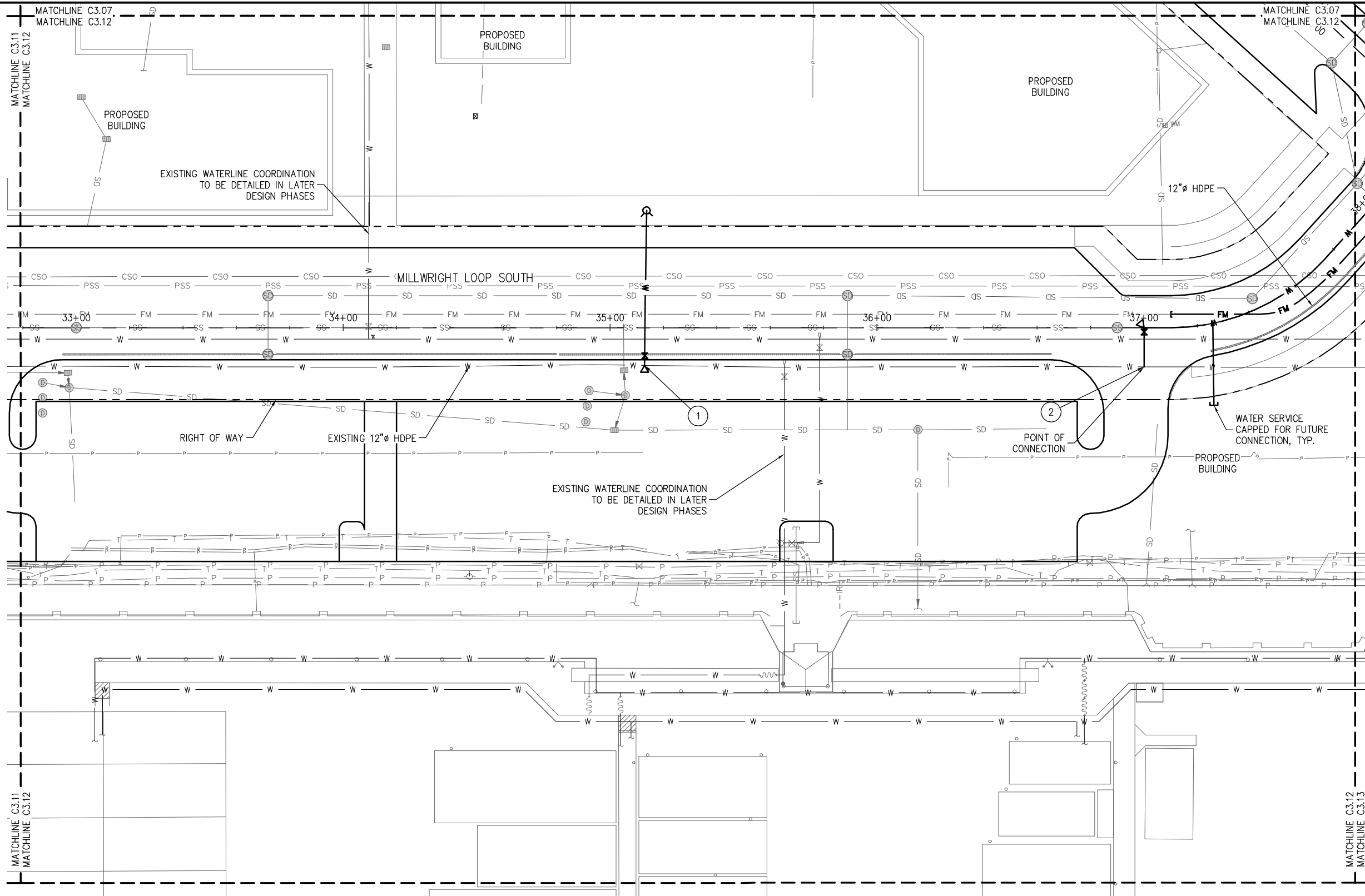
DWG. NO.	C3.11
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

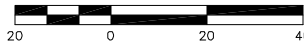
NOTES

- 1 CONNECT TO EXISTING
 - (2) 12" HDPE ADAPTORS (WLxFL)
 - (1) 12"x12"x6" DI TEE (FLxFLxFL)
 - (1) 6" DI GATE VALVES (FLxFL) w/ VALVE BOX
 - (1) FH ASSEMBLY, 6" DI LEAD THRUST BLOCK
- 2 CONNECT TO EXISTING
 - (3) 12" HDPE ADAPTORS (WLxFL)
 - (1) 12"x12"x12" DI TEE (FLxFLxFL)
 - (1) 12" 90° DI ELBOW (FLxFL)
 - (1) 12" DI GATE VALVES (FLxFL) THRUST BLOCK



PLAN

SCALE IN FEET



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DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.12
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

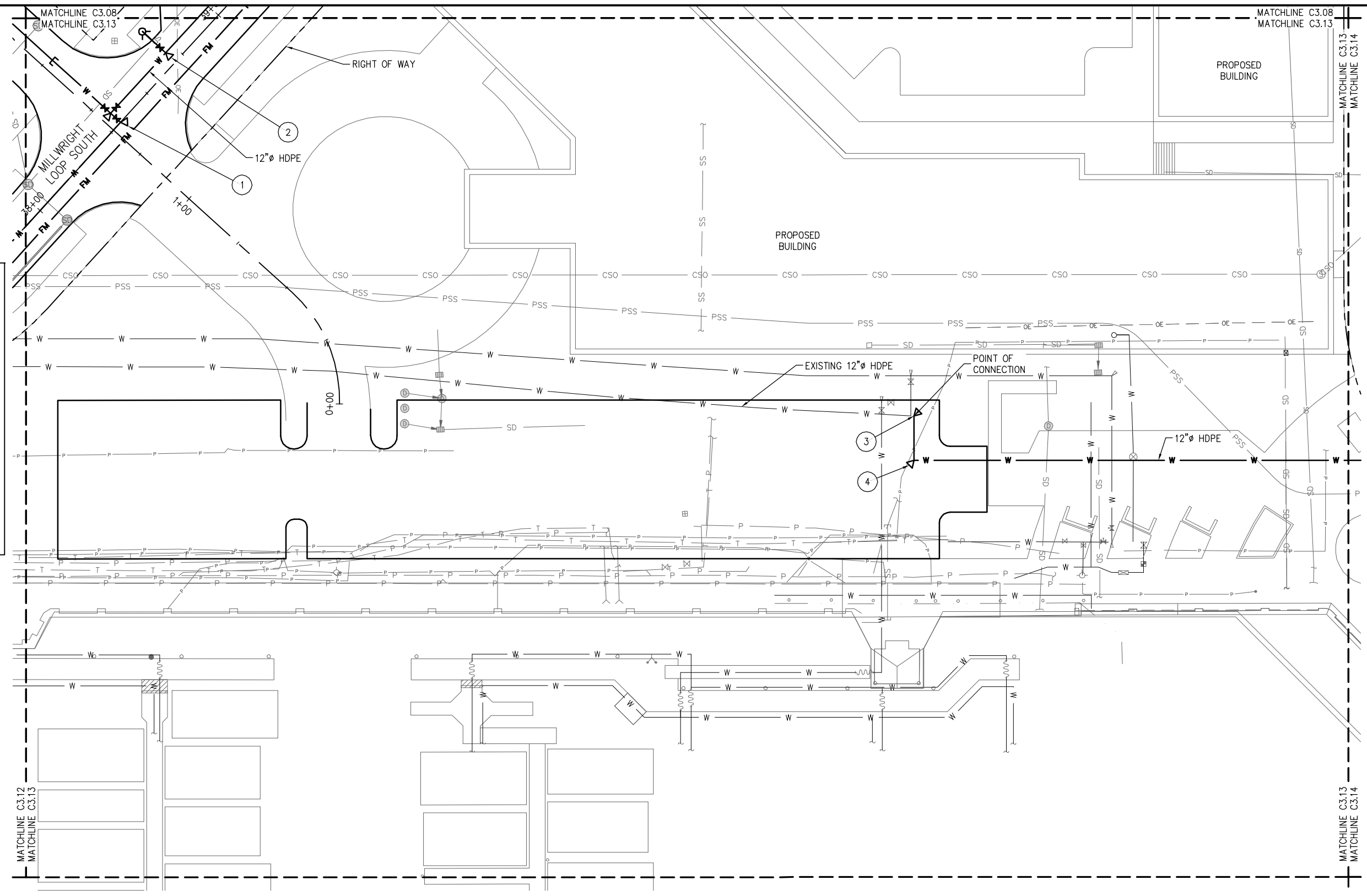
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

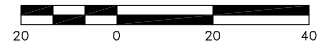
NOTES

- ① (2) 12" HDPE ADAPTORS (WLxFL)
(1) 8" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x8" DI TEE (FLxFLxFL)
(2) 12" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) 12" DI GATE VALVES (FLxFL)
w/ VALVE BOX
THRUST BLOCK
- ② (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- ③ CONNECT TO EXISTING
(2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 90° ELBOW (FLxFL)
THRUST BLOCK
- ④ (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 90° ELBOW (FLxFL)
THRUST BLOCK



PLAN

SCALE IN FEET



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DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.13
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

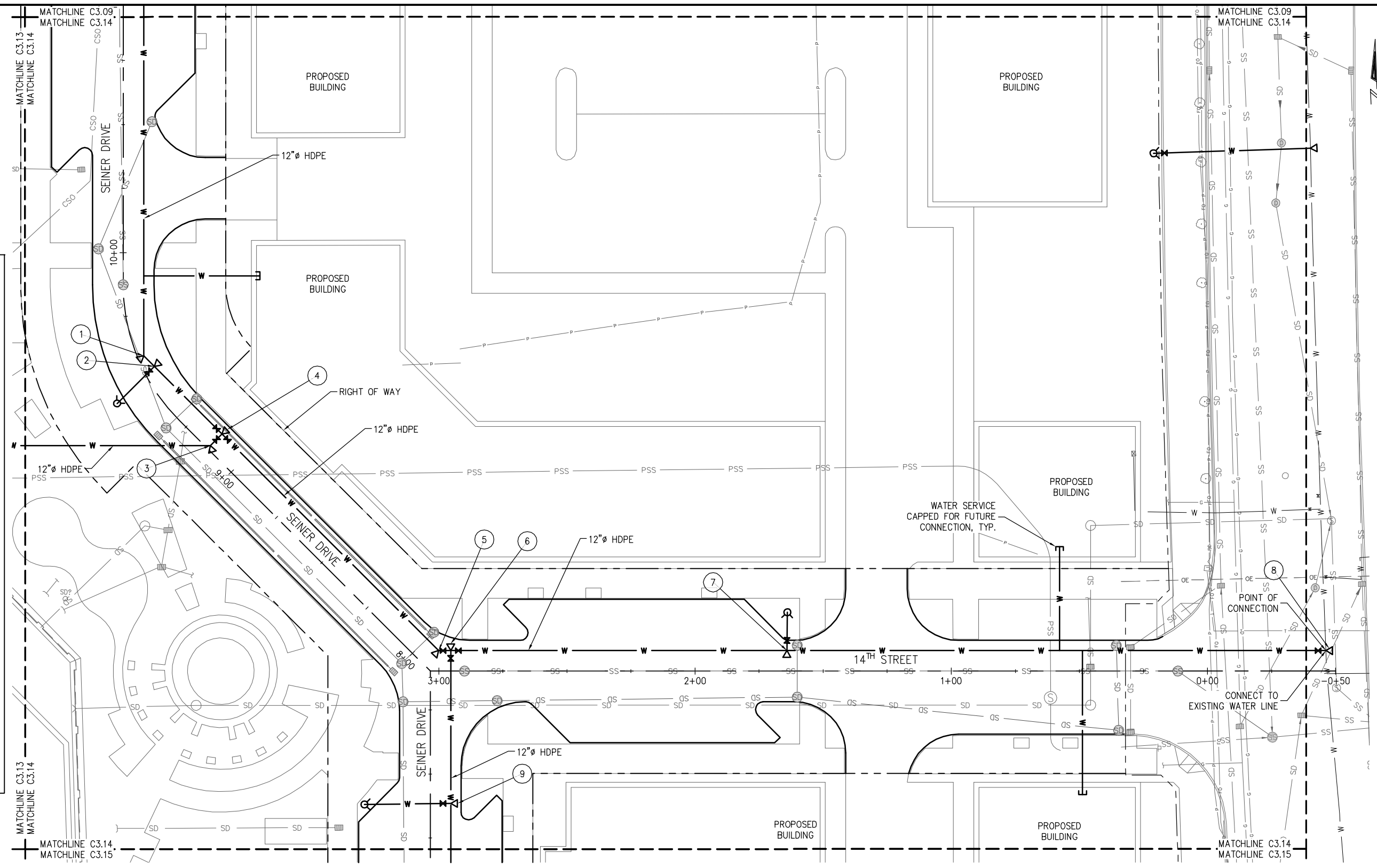
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 45° ELBOW (FLxFL)
THRUST BLOCK
- 2 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 3 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 45° ELBOW (FLxFL)
THRUST BLOCK
- 4 (3) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x12" DI TEE (FLxFLxFL)
(3) 12" DI GATE VALVES (FLxFL)
w/ VALVE BOX
THRUST BLOCK
- 5 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI 45° ELBOW (FLxFL)
THRUST BLOCK
- 6 (3) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x12" DI TEE (FLxFLxFL)
(3) 12" DI GATE VALVES (FLxFL)
w/ VALVE BOX
THRUST BLOCK
- 7 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(2) 12" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 8 CONNECT TO EXISTING
(3) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x12" DI TEE (FLxFLxFL)
- 9 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
THRUST BLOCK



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.14
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

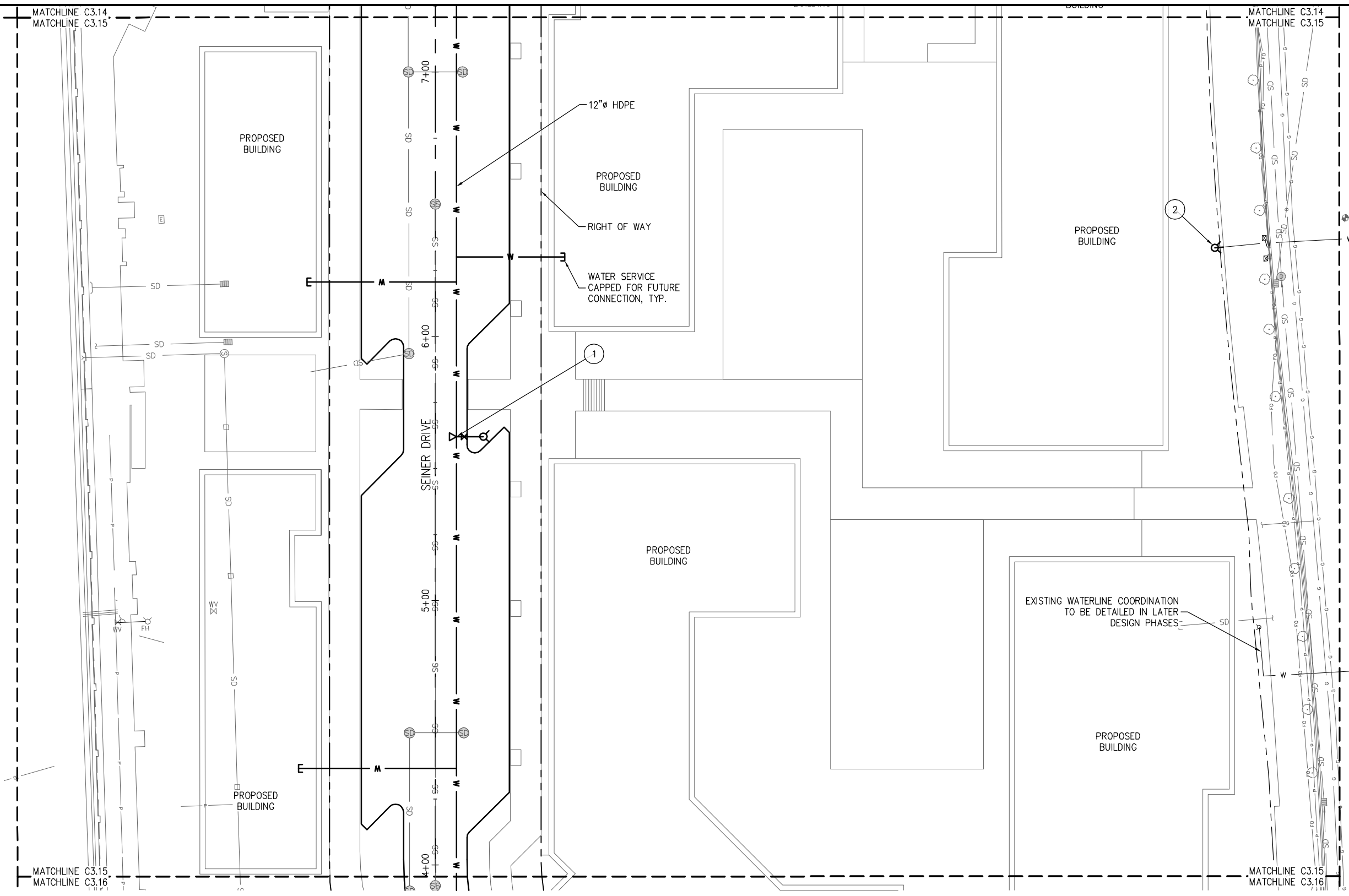
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LEGEND

- RIGHT OF WAY
- - - PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

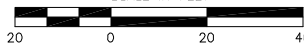
NOTES

- 1 (2) 12" HDPE ADAPTORS (WLxFL)
- 1 (1) 12"x12"x6" DI TEE (FLxFLxFL)
- 1 (1) 6" DI GATE VALVES (FLxFL) w/ VALVE BOX THRUST BLOCK
- 2 (1) FH ASSEMBLY, CONNECT TO EXISTING 6"Ø LINE THRUST BLOCK



PLAN

SCALE IN FEET



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.15
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

NO.	DATE	BY	REVISION

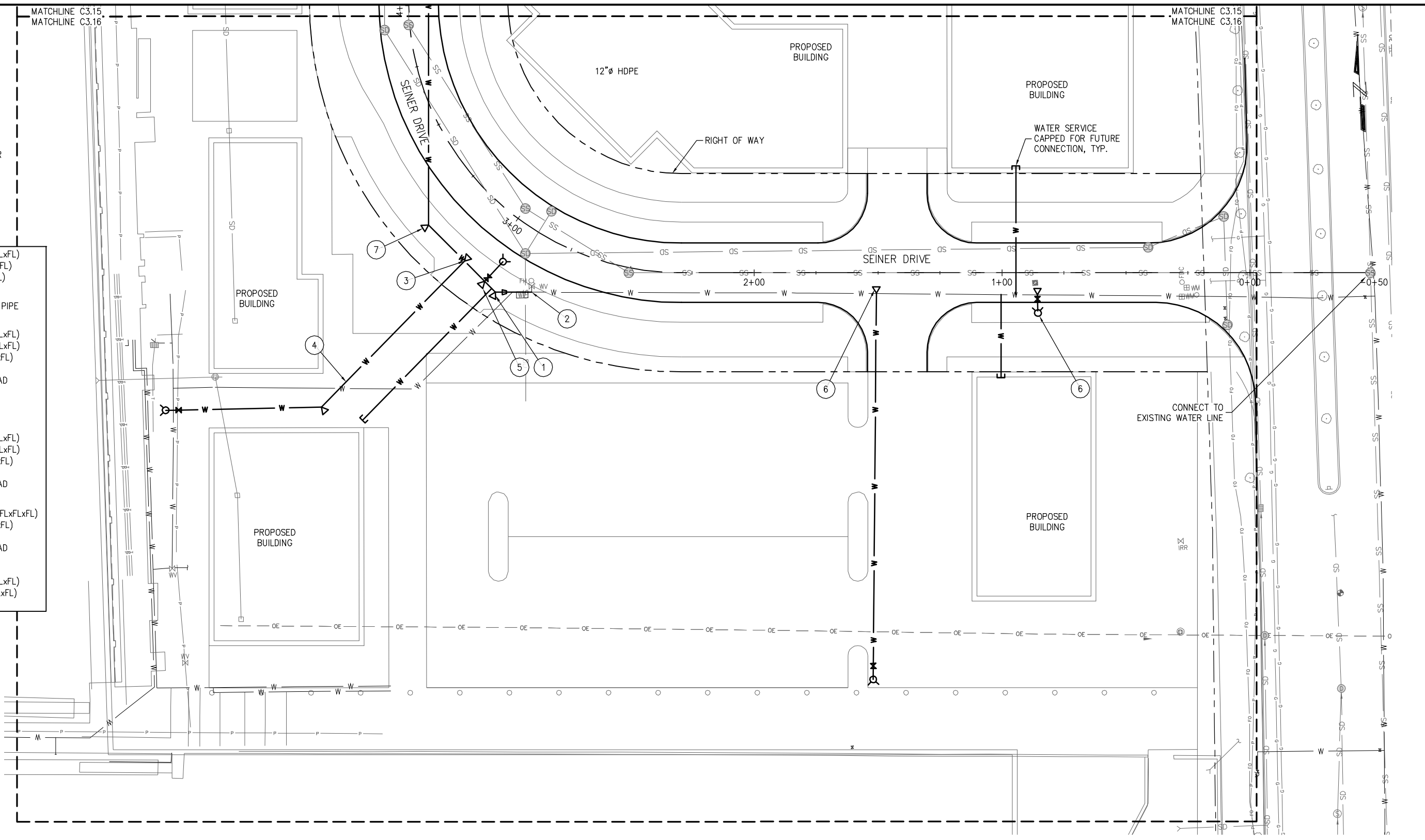
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LEGEND

- RIGHT OF WAY
- PROPOSED CENTERLINE
- SS --- SANITARY SEWER
- FM --- SANITARY SEWER FORCE MAIN
- SD --- STORM DRAIN
- W --- WATER SYSTEM

NOTES

- 1 (1) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x6" DI REDUCER (FLxFL)
(1) 12" DI 45° ELBOW (FLxFL)
THRUST BLOCK
- 2 CONNECT TO EXISTING 6" DI PIPE
- 3 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 4 (1) 6" DI 45° ELBOW
- 5 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12"x12"x6" DI TEE (FLxFLxFL)
(1) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 6 (1) 6"x6"x6" TAPPING TEE (FLxFLxFL)
(2) 6" DI GATE VALVES (FLxFL)
w/ VALVE BOX
(1) FH ASSEMBLY, 6" DI LEAD
THRUST BLOCK
- 7 (2) 12" HDPE ADAPTORS (WLxFL)
(1) 12" DI GATE VALVES (FLxFL)
THRUST BLOCK



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PROJECT ENGINEER: J. KEISER	SCALE: NOTED
DESIGNED BY: C. WIEST	DATE: DEC. 2015
DRAWN BY: G. DEAN	CHECKED BY: M. O'CONNOR
APPROVED BY:	

PORT OF EVERETT
MASTER UTILITY DESIGN
MASTER UTILITY DESIGN
WATER SYSTEM PLAN

DWG. NO.	C3.16
CIP NO.	--
PROJECT NO.	--
SHEET NO.	X OF

ELECTRICAL LEGEND*

LIGHTING - EXISTING (SURVEY)	
SYMBOL	DESCRIPTION
	CITY STREET LIGHT WITH FIXTURE ARM
	STREET LIGHTING POLE WITH ARM AND FIXTURE
	STREET LIGHTING POLE WITH TWO ARMS AND FIXTURES
	FLOODLIGHT FIXTURE,
	LIGHTING POLE WITH TOP/CENTER MOUNTED FIXTURE
	LIGHTING BOLLARD
	SURFACE OR RECESSED FIXTURE (IE.. PROMENADE LIGHTING)
	SIGN LIGHTING FLOODLIGHT

LIGHTING	
SYMBOL	DESCRIPTION
	LIGHTING POLE, TYPES A-25 & A2-18
	LIGHTING POLE, TYPE A1-18/25
	LIGHTING POLE, TYPE A4-14
	LIGHTING POLE, TYPE A3-14
	LIGHTING BOLLARD, TYPES B1-4 & B2-4
	SURFACE OR RECESSED FIXTURE (IE.. PROMENADE LIGHTING)
	SIGN LIGHTING FLOODLIGHT
	REMOVE AND REPLACE EXISTING LIGHT POLE: REMOVE EXISTING POLE AND GENTLY STORE IN POE BONE YARD OR INSTALL AT NEW LOCATION SHOWN

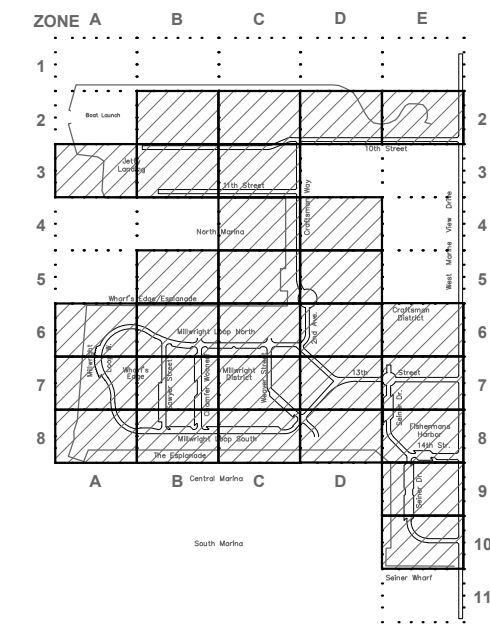
DIAGRAMS	
SYMBOL	DESCRIPTION
	UTILITY XFMR - POLE MOUNTED KVA, VOLTAGE, PHASE *A-xxx* (UTILITY # IF APPLICABLE)
	XFMR - (MOUNTING) KVA, VOLTAGE, PHASE *A-xxx* (UTILITY # IF APPLICABLE)
	METER W/CURRENT TRANSFORMER M = UTILITY CO. APPROVED SOCKET WITH METER PF = POWER FACTOR METER KW/KVAR = COMBINATION KILOWATT/ HOUR/KVAR
	CURRENT TRANSFORMER
	GROUND FAULT RELAY
	CIRCUIT BREAKER xxx = AMPACITY, y = POLES
	SWITCH xxx = AMPACITY
	DISCONNECT SWITCH xx = AMPACITY
	DISCONNECT SWITCH - FUSED xx = AMPACITY
	JUNCTION BOX
	MOTOR OR PUMP, AS NOTED
	SPECIAL RECEPTACLE
	POWER PEDESTAL
	LIGHTING CONTROLLER TC = TIMECLOCK CONTROLLED HOA = HAND-OFF-AUTO SWITCH CONTROLLED
	IRRIGATION SYSTEM CONTROLLER
	SECURITY SYSTEM CONTROLLER
	T.B.D.
	UNDERGROUND PULL BOX/MANHOLE (SEE DESCRIPTION UNDER SITE SYMBOLS)

SITE ELECTRICAL EQUIPMENT - EXISTING (SURVEY)	
SYMBOL	DESCRIPTION
	UTILITY POLE WITH ARM
	UNDERGROUND PULL BOX/MANHOLE a - b - c a = SYSTEM b = PROJECT ZONE LOCATION c = NUMBER C - COMMUNICATIONS D - DATA P - POWER T - TELEPHONE U - UTILITY CBL - CABLE TX - UTILITY TRANSFORMER VAULT
	HANDHOLE - STREET LIGHTING, TREE LIGHTING AND BRANCH CIRCUIT SITE WIRING

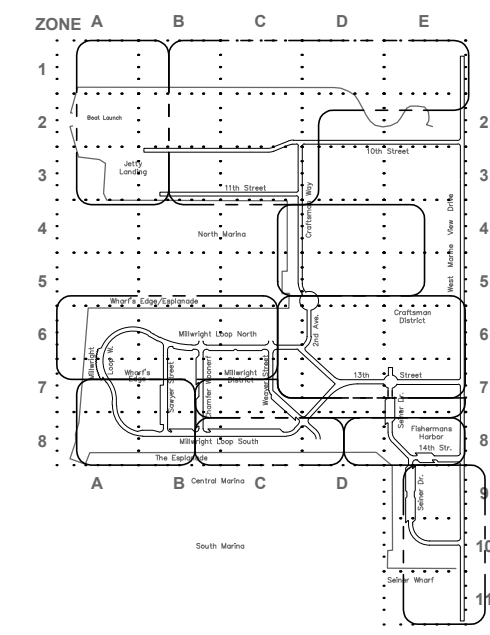
SITE ELECTRICAL EQUIPMENT	
SYMBOL	DESCRIPTION
	4x4x3D BOX 504-LA WITH STEEL LID C = COMMUNICATIONS POE/COMCAST/WAVE P = POWER: UTILITY POWER U = UTILITY: PUD PRIMARY LOOP
	FRONTIER-35 WITH DBL-STEEL LID T = TELEPHONE
	UTILITY CO. PRIMARY SWITCH CABINET
	UTILITY CO. PAD MOUNTED TRANSFORMER (LESS THAN 750KVA)
	CLEAR ZONE/GUARD POST CENTERLINE
	SITE ELECTRICAL EQUIPMENT W/CLEAR ZONE SHOWN
	12x18 ELECTRICAL HANDHOLE, STEEL GALV. COVER, OPEN BOTTOM, PEDESTRIAN RATED

WIRING	
SYMBOL / DESCRIPTION	
	0-600V WIRING
	MEDIUM VOLTAGE OVERHEAD UTILITY WIRING
	CONDUIT RACEWAY
	CONTROL/INSTRUMENT WIRING
	CONDUIT RACEWAY STUB-OUT

REFERENCE SYMBOLS	
SYMBOL	DESCRIPTION
	SHEET NOTE REFERENCE (FLAG NOTES)
	FEEDER NOMINAL AMPACITY & TYPE: SEE FEEDER SCHEDULE.
	REFER TO DETAIL NO. ON DRAWING INDICATED NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.
	ELEVATION/PHOTO TAG: REFER TO NUMBER AND SHEET INDICATED
	SECTION TAG: REFER TO DETAIL NO. ON DRAWING. NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY.



MASTER PLAN DRAWING KEY PLAN



MASTER SINGLE LINE WIRING DIAGRAM KEY PLAN

MASTER ELECTRICAL DRAWING LIST

Drawing Number	Zone	Title	Rev. Date
E0.0		Title Sheet	
E0.1		Drawing List, Symbols Legends and Notes	
E0.2		Overall Electrical Site Plan	

E1.0	Multiple	Single Line Wiring Diagram - North Marina Area
E1.1	Multiple	Single Line Wiring Diagram - 10th Street / Craftsman Way
E1.2	Multiple	Single Line Wiring Diagram - Craftsman District
E1.3	Multiple	Single Line Wiring Diagram - 13th Street / 1st Street
E1.4	Multiple	Single Line Wiring Diagram - Dock 6 / Boat Storage
E1.5	Multiple	Single Line Wiring Diagram - Central Boat Yard to West Marine View Drive
E1.6	Multiple	Single Line Wiring Diagram - Central Marina A Dock / Yacht Club
E1.7	Multiple	Single Line Wiring Diagram - Central Marina B Through I Dock Area
E1.8	Multiple	Single Line Wiring Diagram - K Dock to West Marine View Drive
E1.9	Multiple	Single Line Wiring Diagram - N Through R Docks / Seiner Wharf

E2.1A	1A	Electrical Plan - Zone 1A
E2.1B	1B	Electrical Plan - Zone 1B
E2.1C	1C	Electrical Plan - Zone 1C
E2.1D	1D	Electrical Plan - Zone 1D
E2.1E	1E	Electrical Plan - Zone 1E
E2.2A	2A	Electrical Plan - Zone 2A
E2.2B	2B	Electrical Plan - Zone 2B
E2.2C	2C	Electrical Plan - Zone 2C
E2.2D	2D	Electrical Plan - Zone 2D
E2.2E	2E	Electrical Plan - Zone 2E
E2.3A	3A	Electrical Plan - Zone 3A
E2.3B	3B	Electrical Plan - Zone 3B
E2.3C	3C	Electrical Plan - Zone 3C
E2.3D	3D	Electrical Plan - Zone 3D
E2.3E	3E	Electrical Plan - Zone 3E
E2.4A	4A	Electrical Plan - Zone 4A
E2.4B	4B	Electrical Plan - Zone 4B
E2.4C	4C	Electrical Plan - Zone 4C
E2.4D	4D	Electrical Plan - Zone 4D
E2.4E	4E	Electrical Plan - Zone 4E
E2.5A	5A	Electrical Plan - Zone 5A
E2.5B	5B	Electrical Plan - Zone 5B
E2.5C	5C	Electrical Plan - Zone 5C
E2.5D	5D	Electrical Plan - Zone 5D
E2.5E	5E	Electrical Plan - Zone 5E
E2.6A	6A	Electrical Plan - Zone 6A
E2.6B	6B	Electrical Plan - Zone 6B
E2.6C	6C	Electrical Plan - Zone 6C
E2.6D	6D	Electrical Plan - Zone 6D
E2.6E	6E	Electrical Plan - Zone 6E
E2.7A	7A	Electrical Plan - Zone 7A
E2.7B	7B	Electrical Plan - Zone 7B
E2.7C	7C	Electrical Plan - Zone 7C
E2.7D	7D	Electrical Plan - Zone 7D
E2.7E	7E	Electrical Plan - Zone 7E
E2.8A	8A	Electrical Plan - Zone 8A
E2.8B	8B	Electrical Plan - Zone 8B
E2.8C	8C	Electrical Plan - Zone 8C
E2.8D	8D	Electrical Plan - Zone 8D
E2.8E	8E	Electrical Plan - Zone 8E
E2.9A	9A	Electrical Plan - Zone 9A
E2.10A	10A	Electrical Plan - Zone 10A
E2.11A	11A	Electrical Plan - Zone 11A

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DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

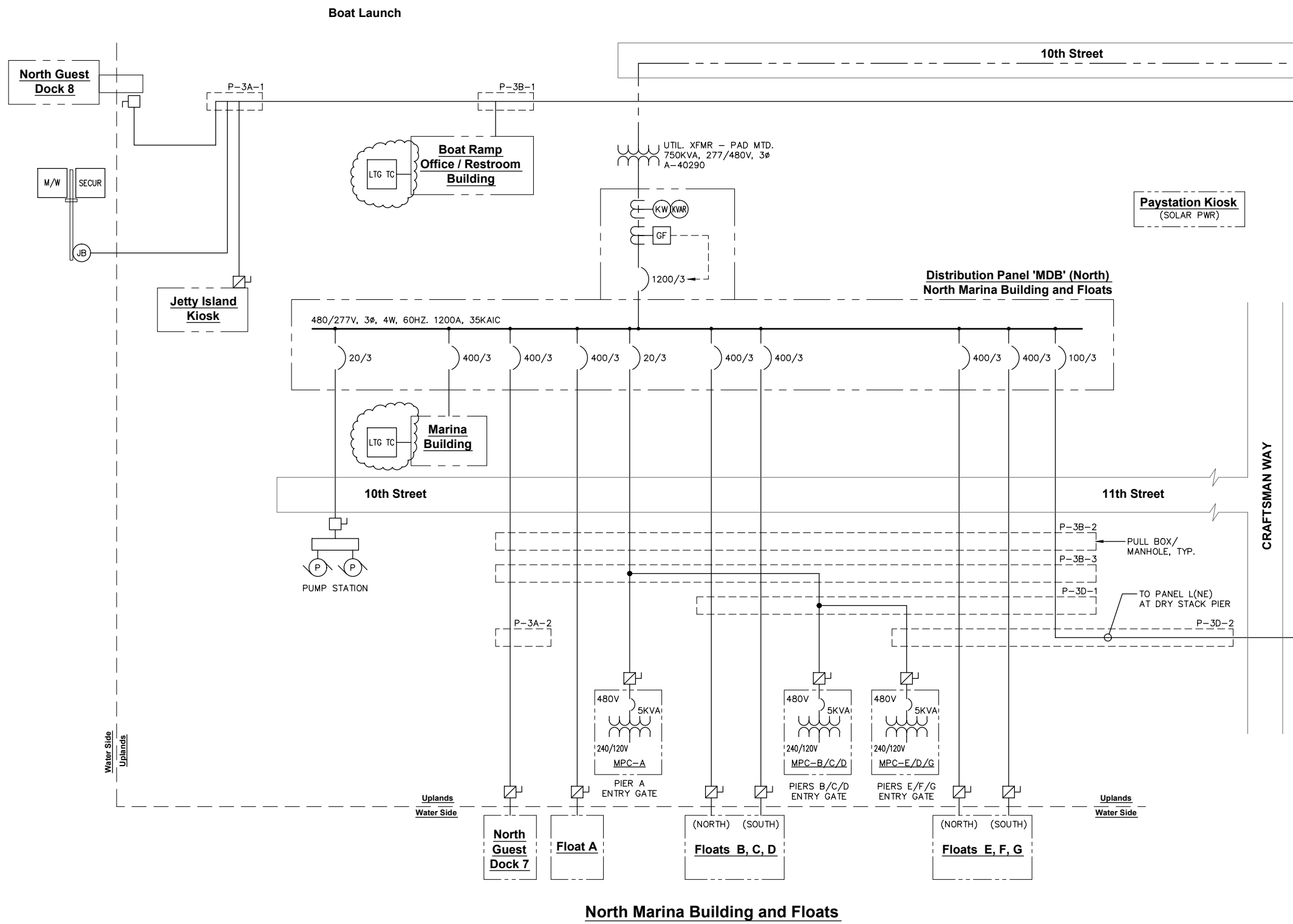
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SITE ELECTRICAL
INFRASTRUCTURE PROJECT
DRAWING LIST, SYMBOLS,
ABBREVIATIONS AND NOTES

DWG. NO.	E0.1
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	X OF XX

NO.	DATE	BY	REVISION

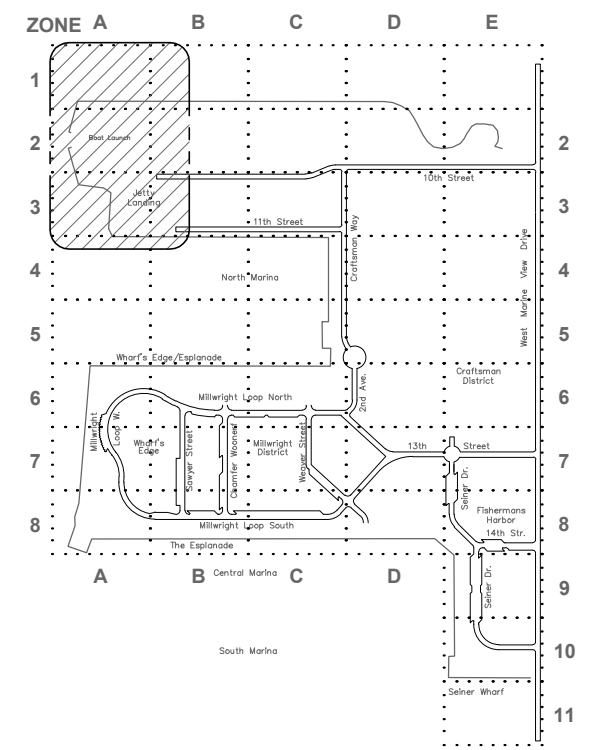
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REFER TO SHIT. E1.1 FOR CONT.

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PORT OF EVERETT
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 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 NORTH MARINA AREA

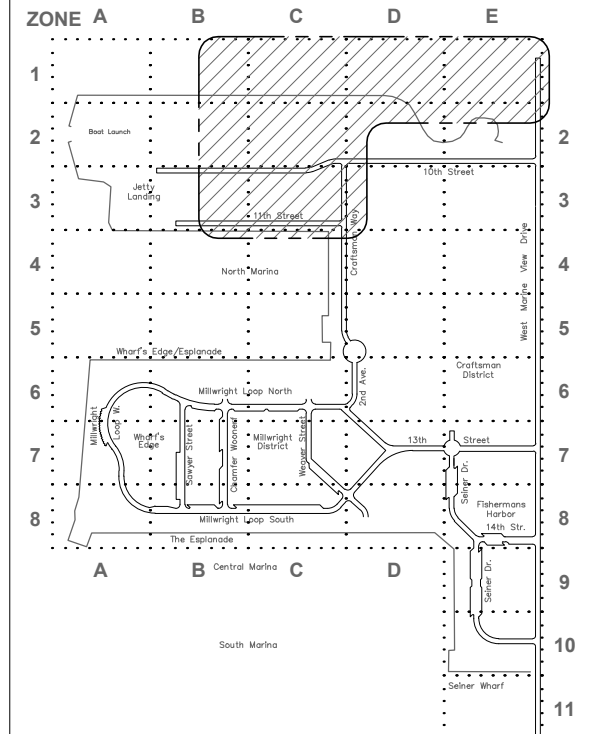
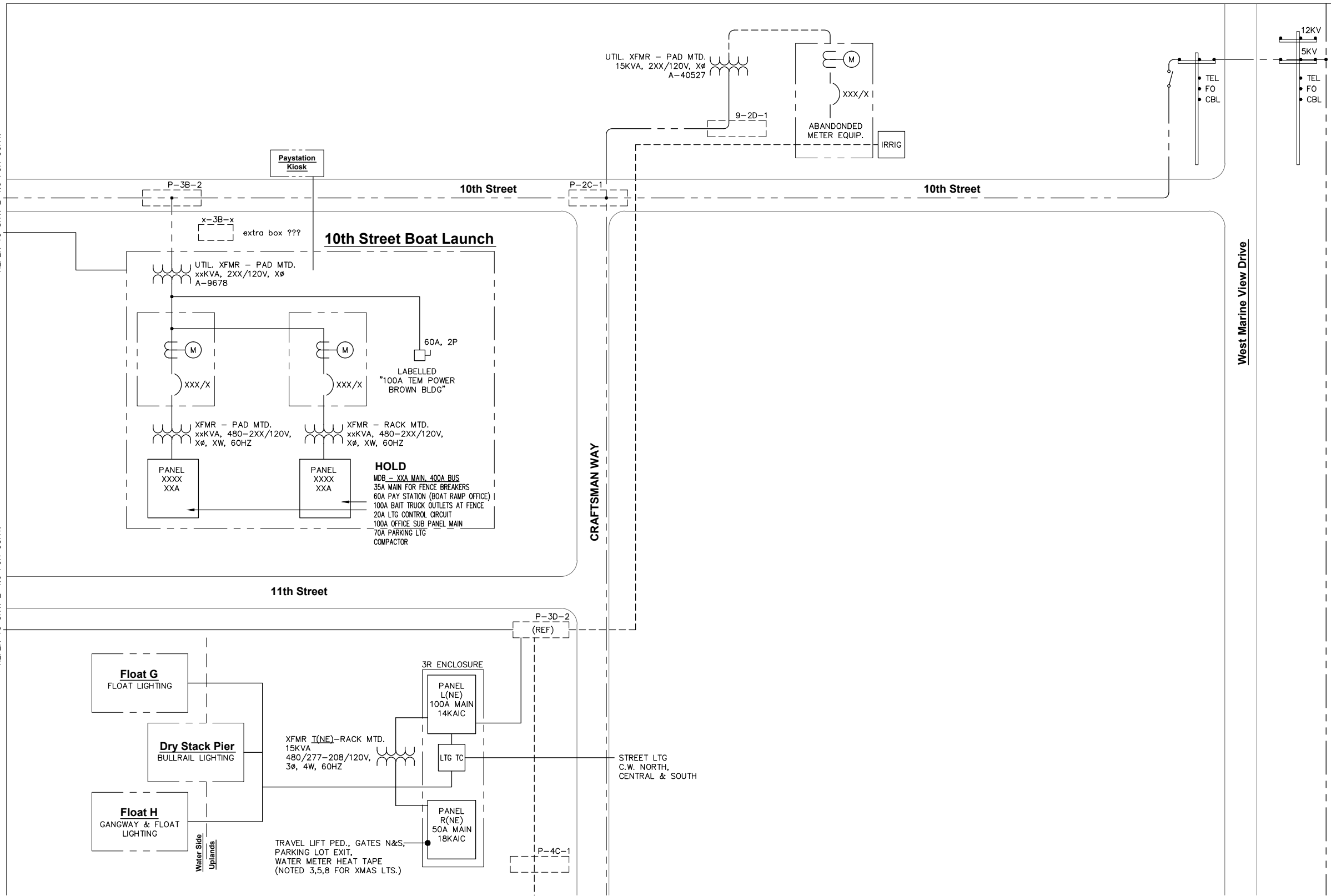
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REFER TO SHT. E-1.0 FOR CONT.

REFER TO SHT. E-1.0 FOR CONT.

REFER TO SHT. E1.2 FOR CONT.



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 APPROVED BY:

SCALE:
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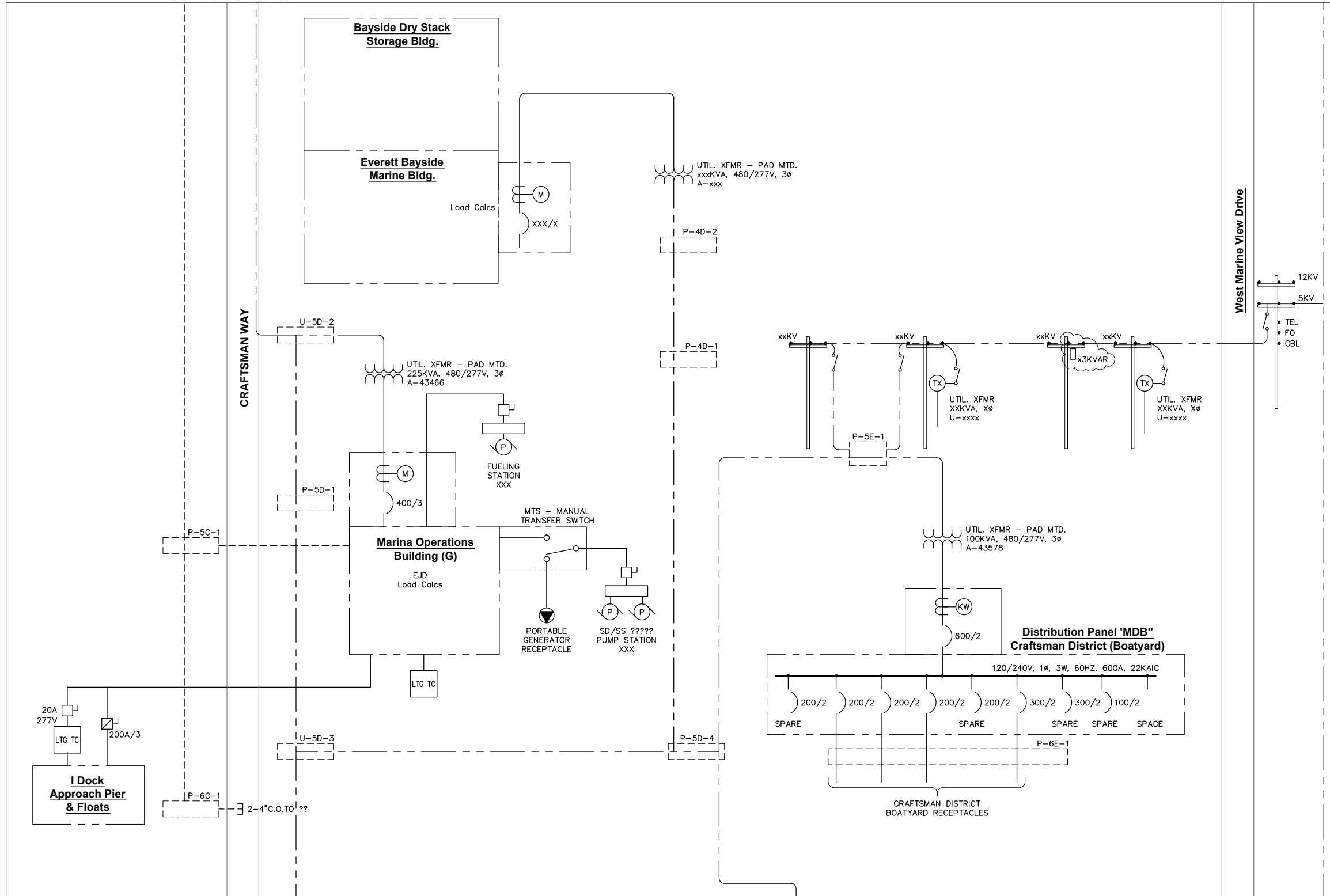
PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 10th STREET/CRAFTSMAN WAY

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 PROJECT NO.
 SHEET NO. X OF XX

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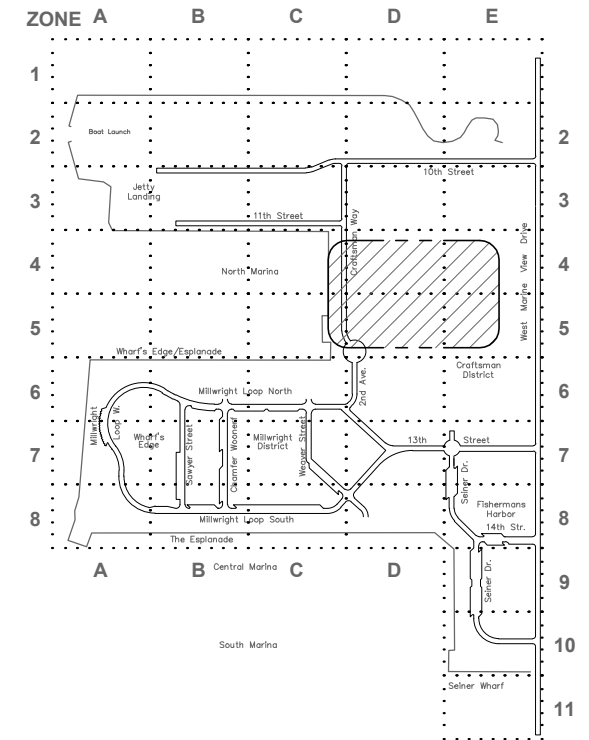
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REFER TO SHT. E1.1 FOR CONT.



REFER TO SHT. E1.3 FOR CONT.

REFER TO SHT. E1.3 FOR CONT.



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PROJECT ENGINEER: E. DAVID	SCALE: NONE
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
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APPROVED BY:	

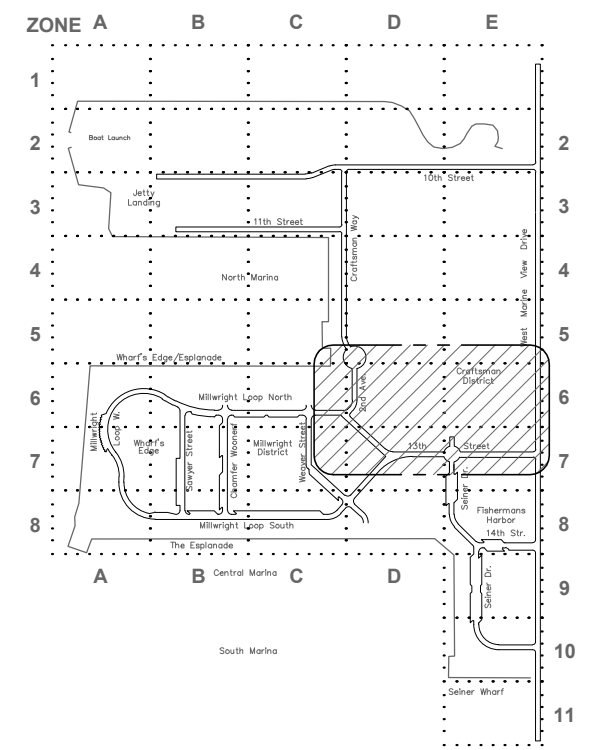
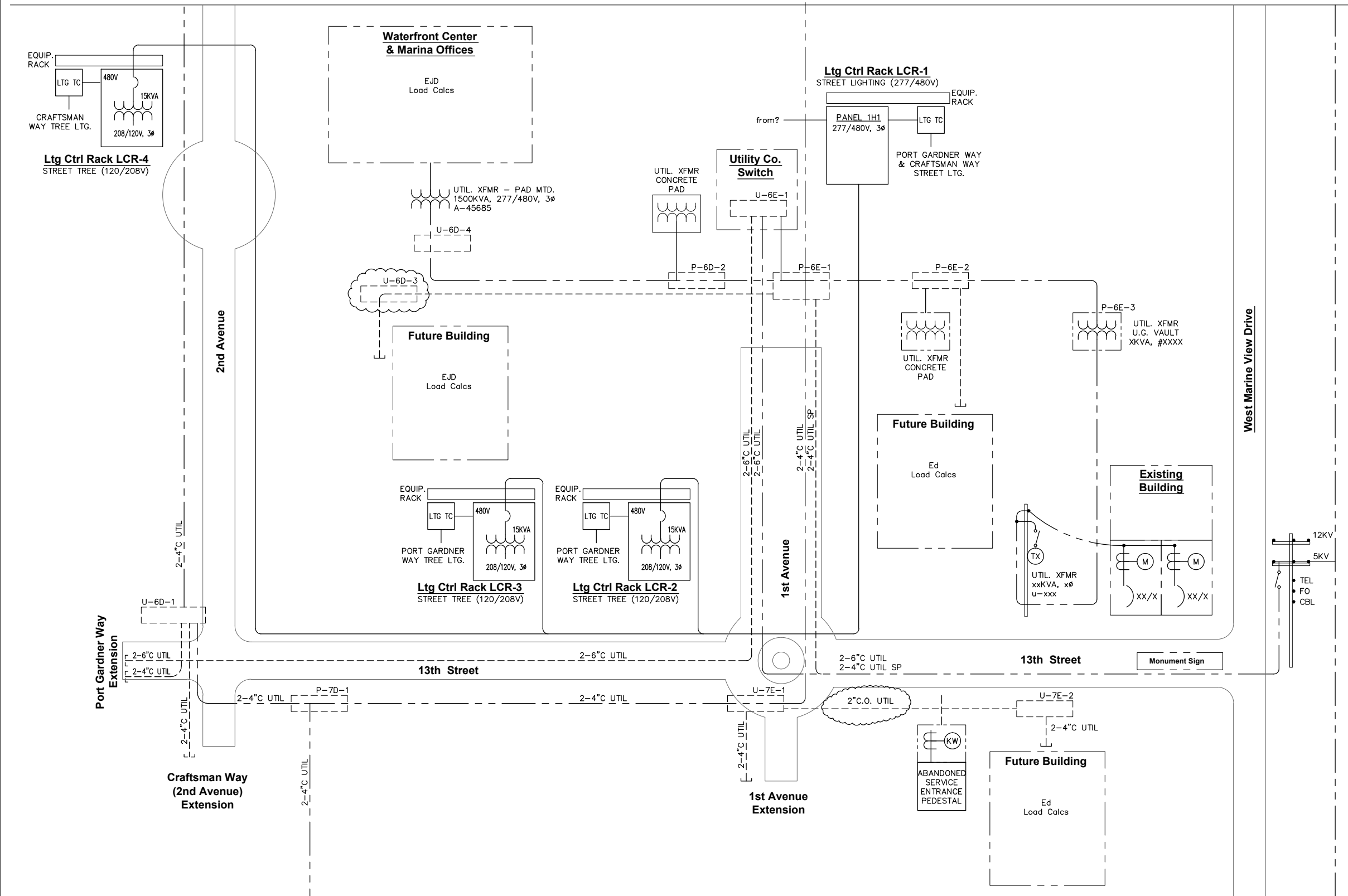
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SITE ELECTRICAL
INFRASTRUCTURE PROJECT
SINGLE LINE WIRING DIAGRAM
CRAFTSMAN DISTRICT

DWG. NO. E1.2
CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

REFER TO SHT. E1.2 FOR CONT.

REFER TO SHT. E1.2 FOR CONT.

REFER TO SHT. E1.5 FOR CONT.



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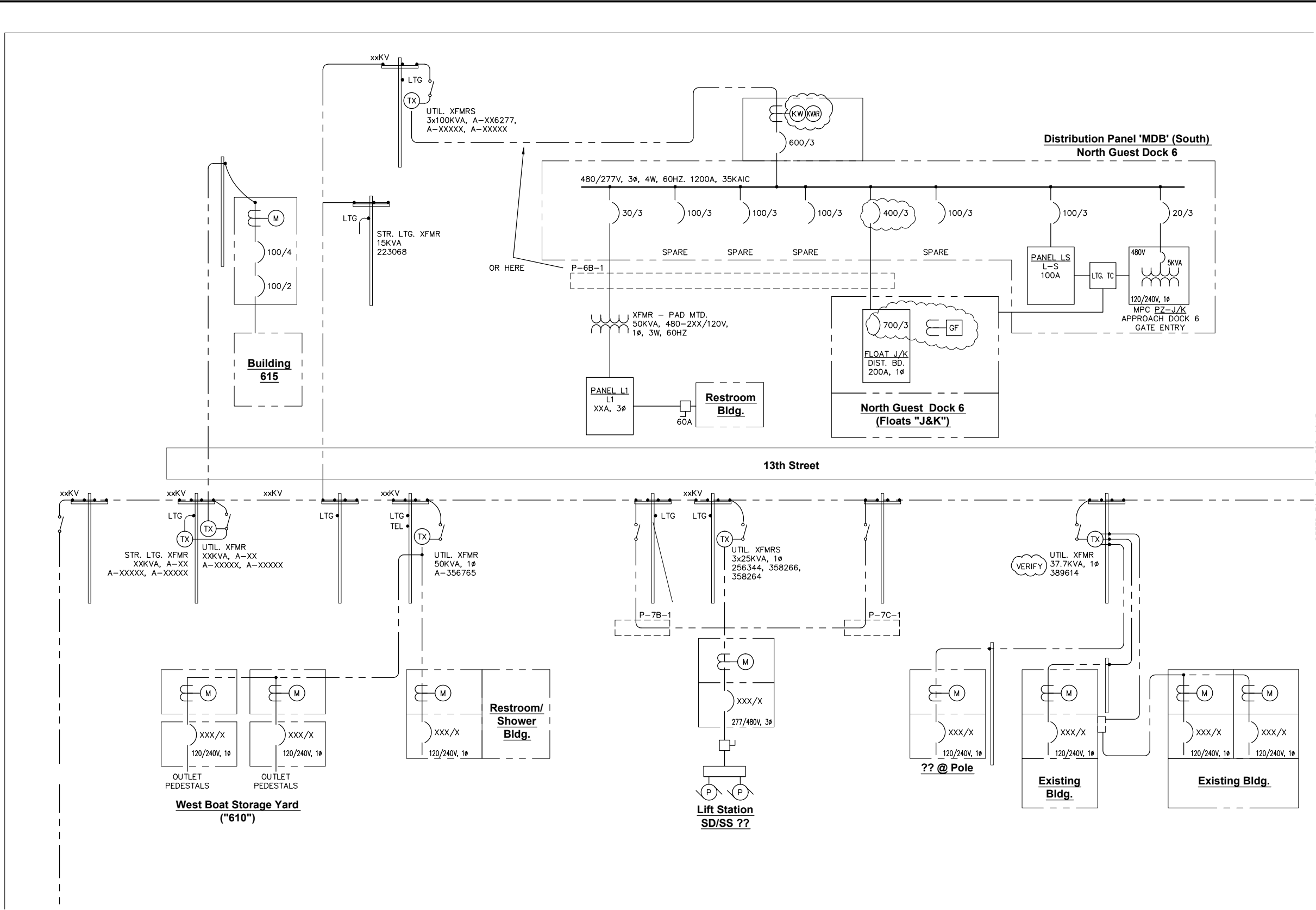
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PROJECT ENGINEER: E. DAVID	SCALE: NONE
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
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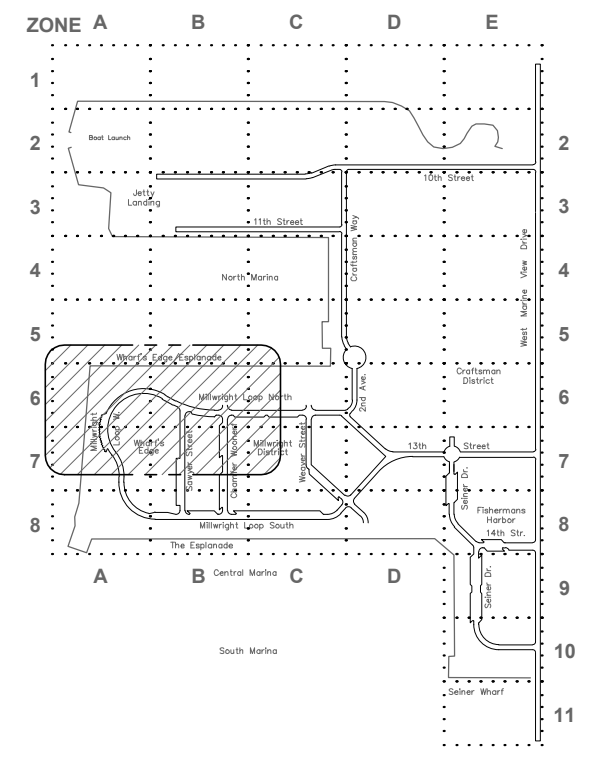
PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 PORT GARDNER WAY/1st STREET

DWG. NO. E1.3
CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

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REFER TO SHT. E1.5 FOR CONT.



REFER TO SHT. E1.6 FOR CONT.

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APPROVED BY:

SCALE:
NONE
DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
SINGLE LINE WIRING DIAGRAM
DOCK 6 / BOAT STORAGE

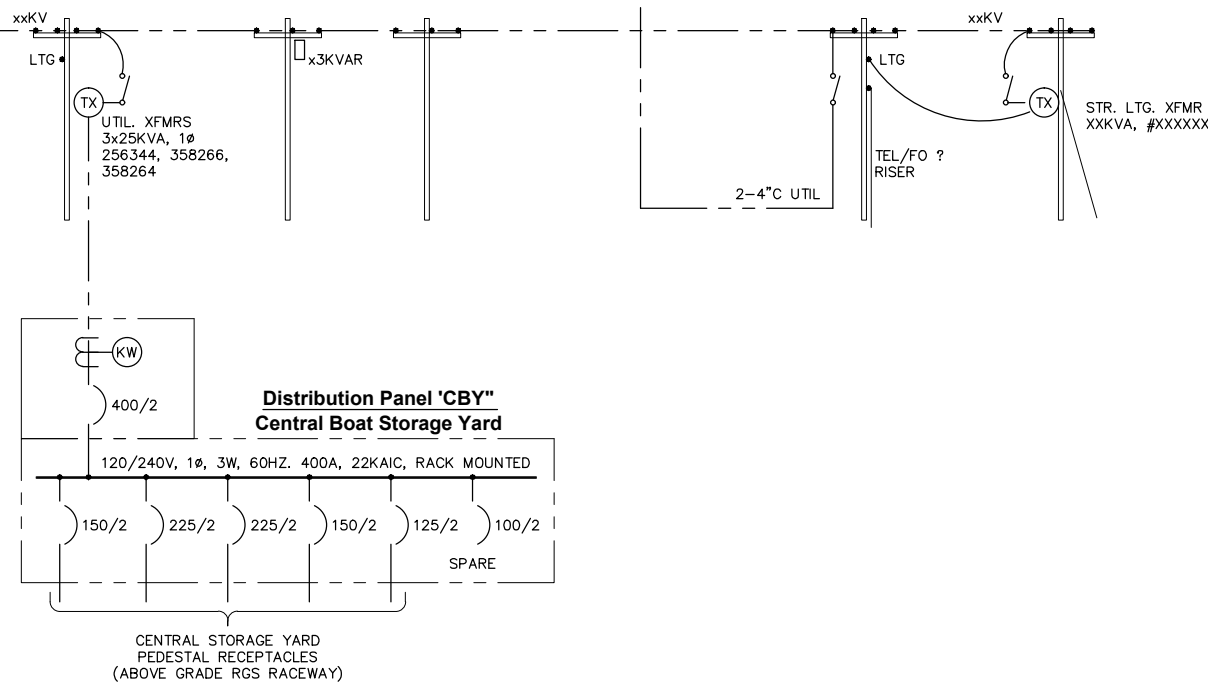
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CIP NO. 3-8-003-01
PROJECT NO.
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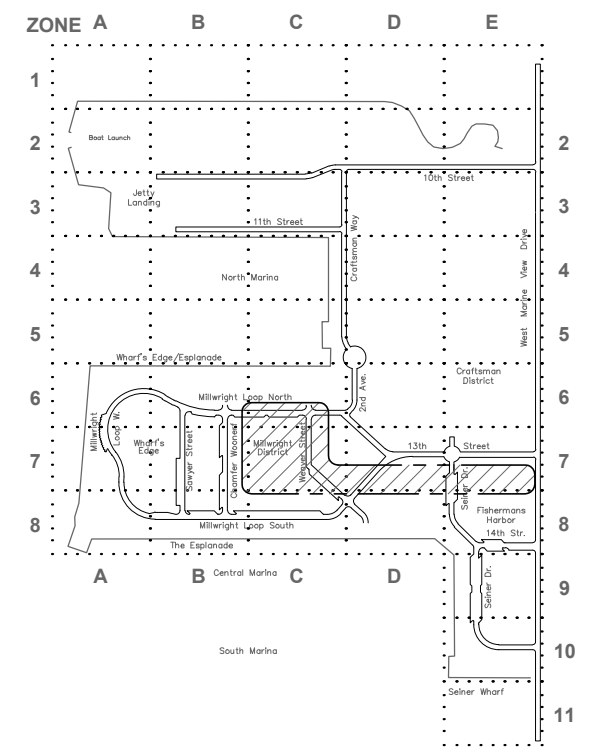
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REFER TO SHT. E1.4 FOR CONT.



West Marine View Drive



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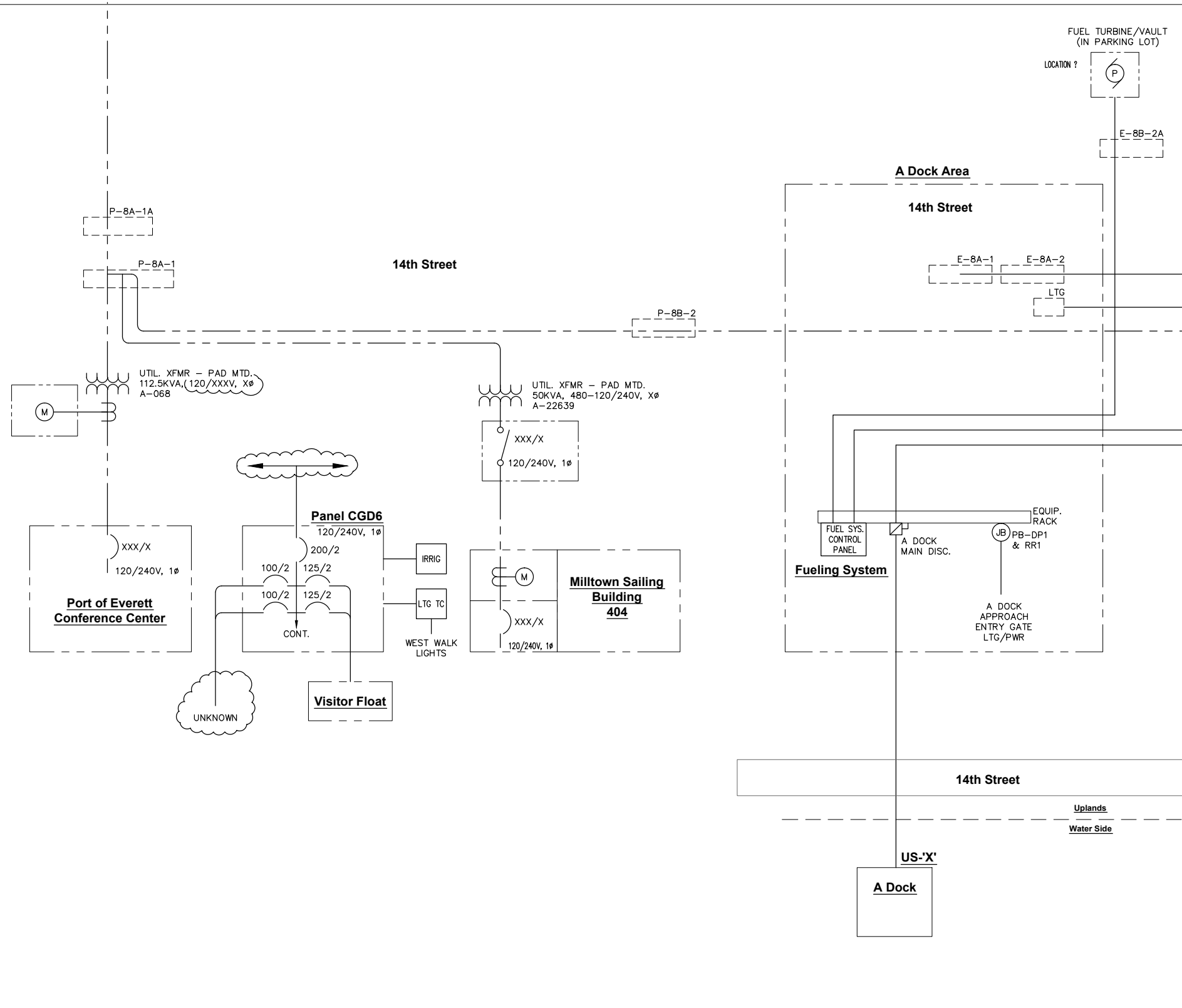
HPE PROJECT NUMBER: 2015-001

PROJECT ENGINEER: E. DAVID	SCALE: NONE
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

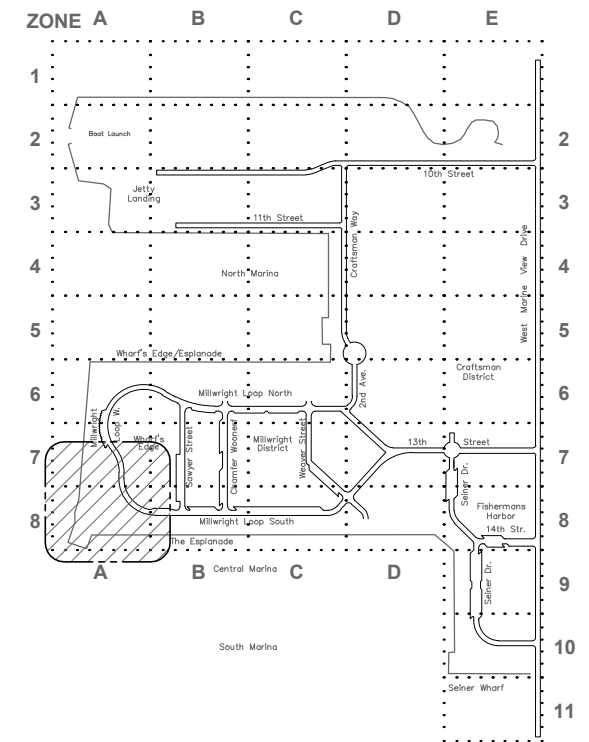
PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 CENTRAL BOAT YARD W.M.V. DRIVE

DWG. NO. E1.5
CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

REFER TO SHT. E-1.4 FOR CONT.



REFER TO SHT. E1.7 FOR CONT.



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C:\Harbor Power\2015-001 Waterfront Place\02 CAD Site Infrastructure\HPE - 2015 Electrical Survey\SI.WD.dwg



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Seattle, Washington 98134
Phone: 206-624-1387
Fax: 206-624-1388
mail@pndengineers.com



HPE PROJECT NUMBER: 2015-001

PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NONE
DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
SINGLE LINE WIRING DIAGRAM
CENTRAL MARINA A DOCK/YACHT CLUB

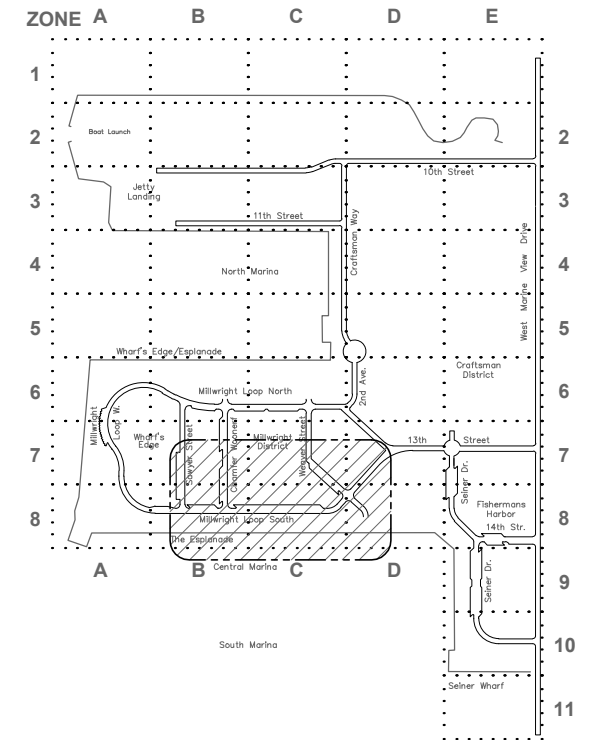
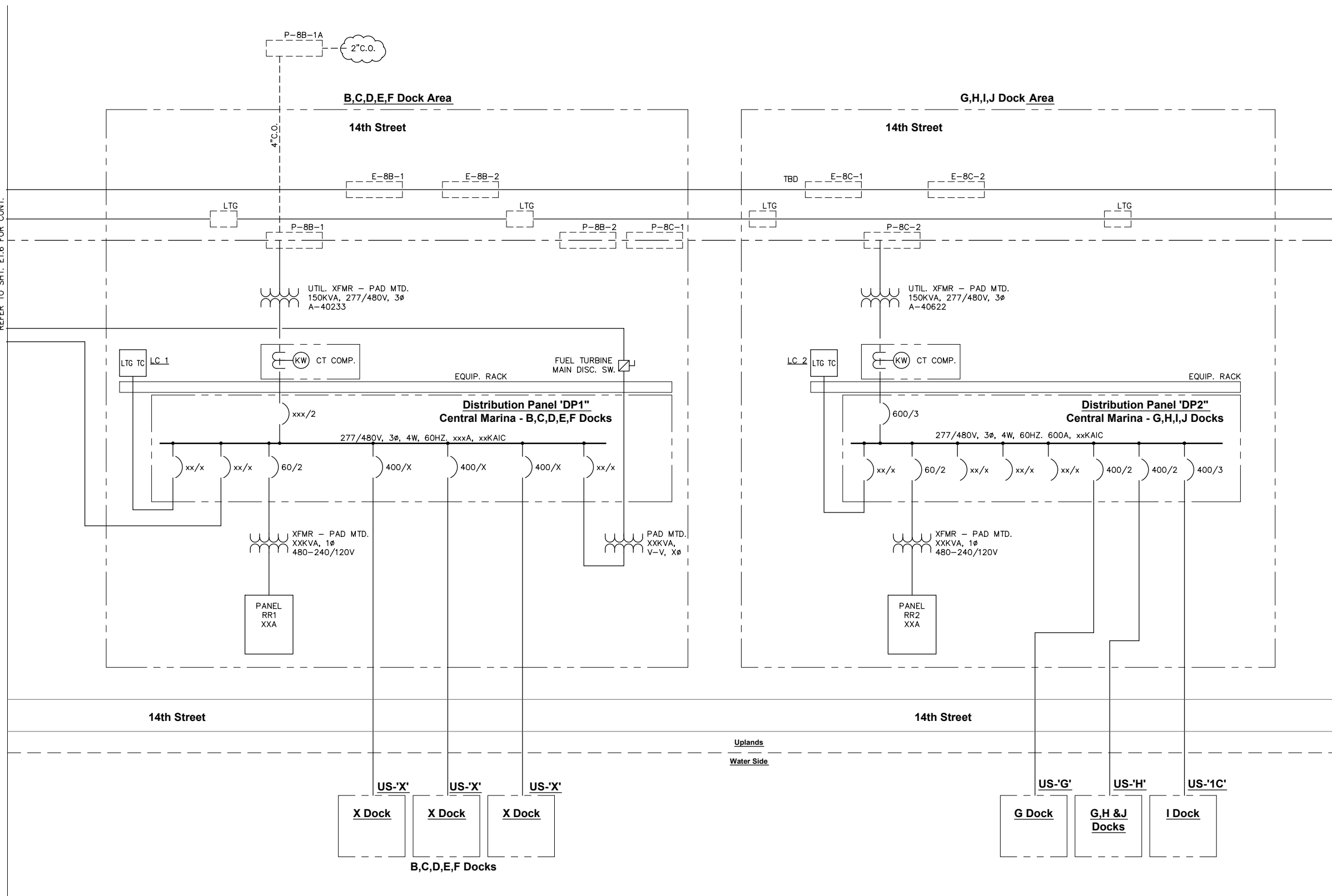
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CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

NO.	DATE	BY	REVISION

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REFER TO SHT. E1.6 FOR CONT.

REFER TO SHT. E1.8 FOR CONT.



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HPE PROJECT NUMBER: 2015-001

PROJECT ENGINEER:
E. DAVID
 DESIGNED BY:
EJD/JRC
 DRAWN BY:
J. CAMPBELL
 APPROVED BY:

SCALE:
NONE
 DATE:
DEC. 2015
 CHECKED BY:

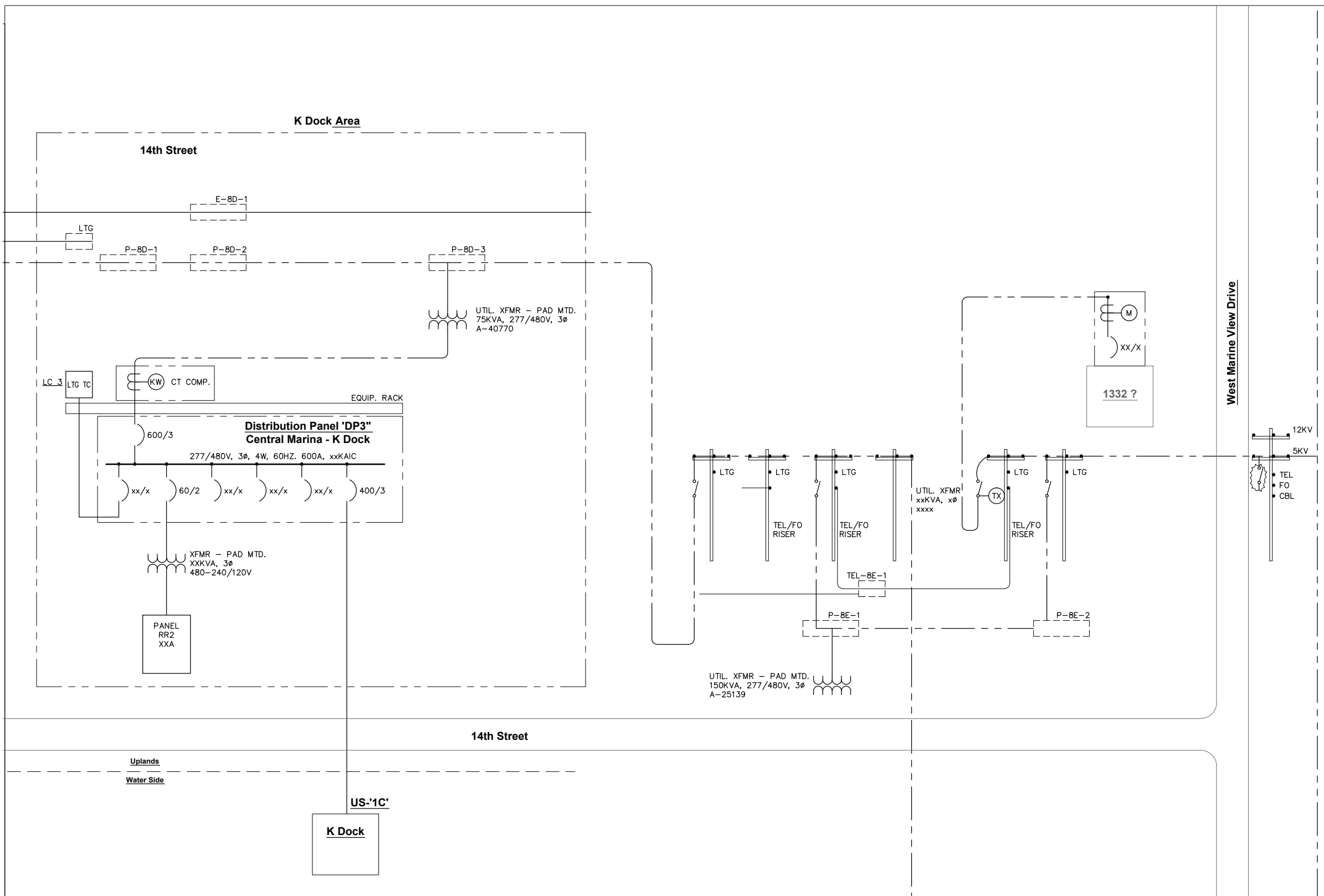
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 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 CENTRAL MARINA B-I DOCK AREA

DWG. NO. **E1.7**
 CIP NO. 3-8-003-01
 PROJECT NO.
 SHEET NO. X OF XX

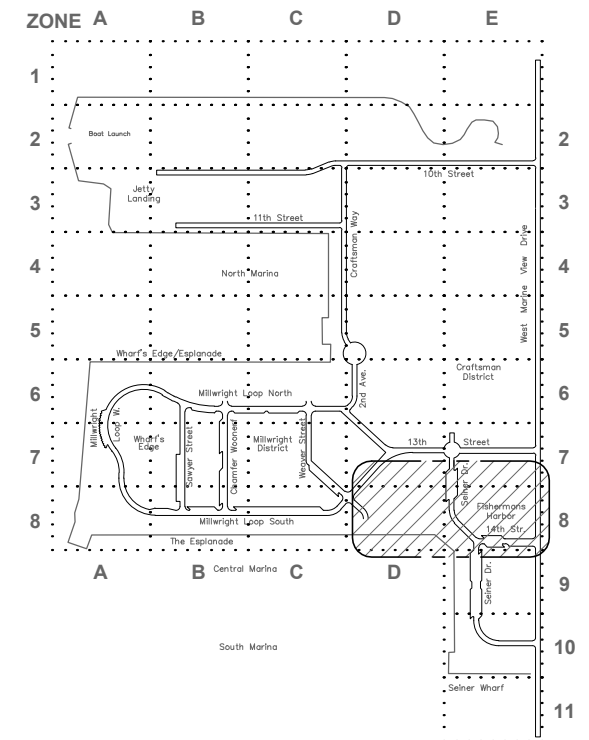
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REFER TO SHT. E1.7 FOR CONT.



REFER TO SHT. E1.9 FOR CONT.



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HPE PROJECT NUMBER: 2015-001

PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

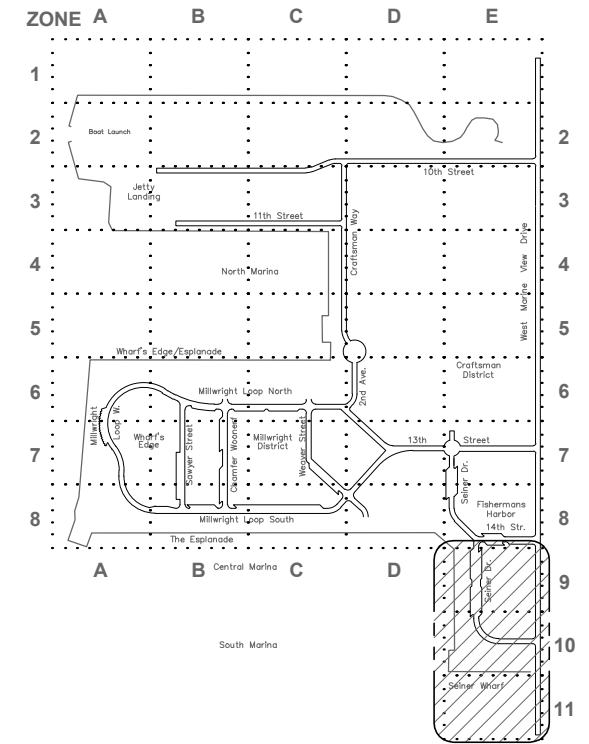
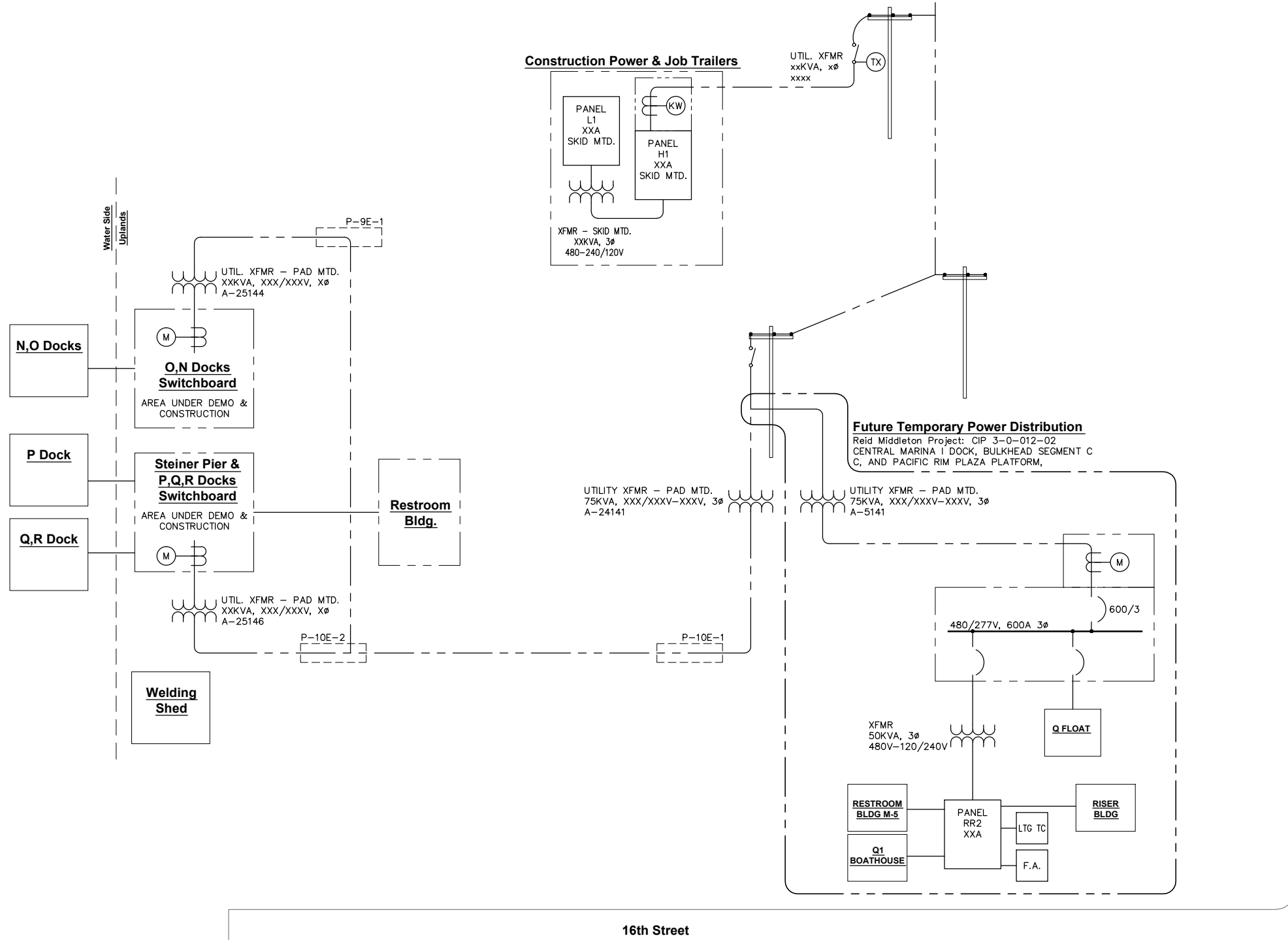
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DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
SINGLE LINE WIRING DIAGRAM
K DOCK TO W.M.V. DRIVE

DWG. NO. **E1.8**
CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

NO.	DATE	BY	REVISION

REFER TO SHT. E1.8 FOR CONT.



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NO.	DATE	BY	REVISION



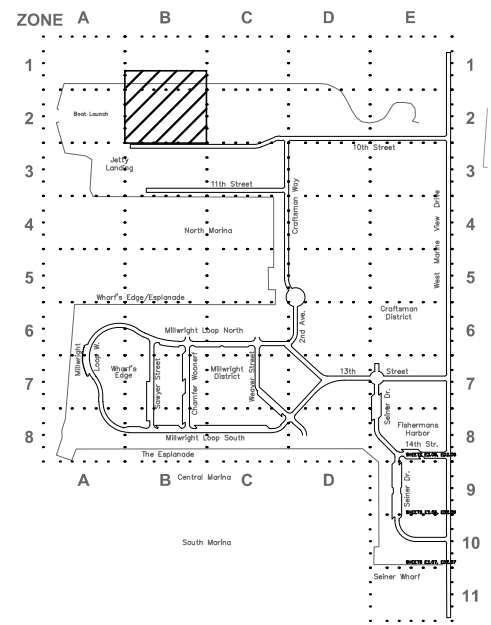
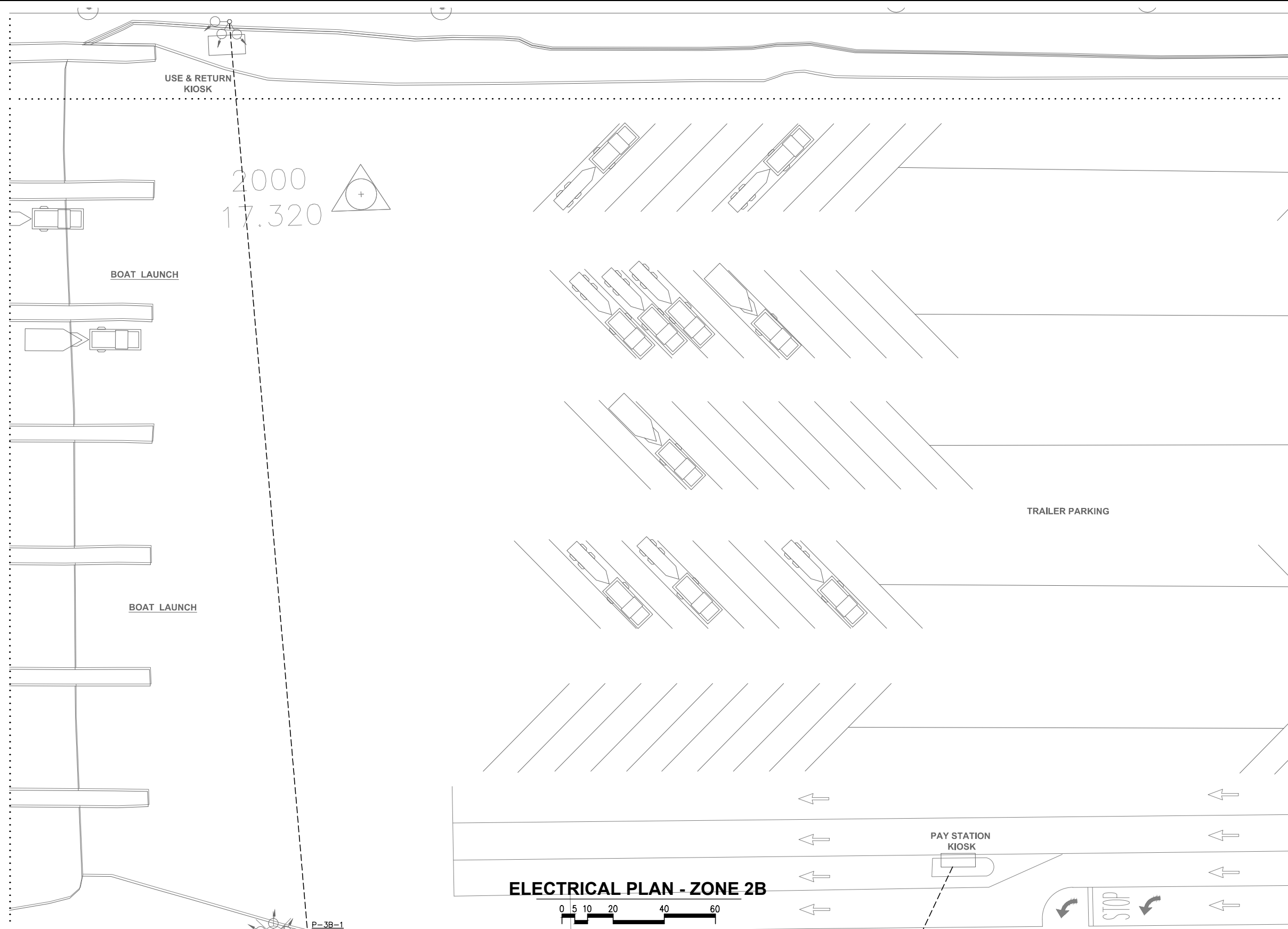
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PROJECT ENGINEER: E. DAVID	SCALE: NONE
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 SINGLE LINE WIRING DIAGRAM
 N-R DOCKS/SEINER WHARF

DWG. NO. E1.9
CIP NO. 3-8-003-01
PROJECT NO.
SHEET NO. X OF XX

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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

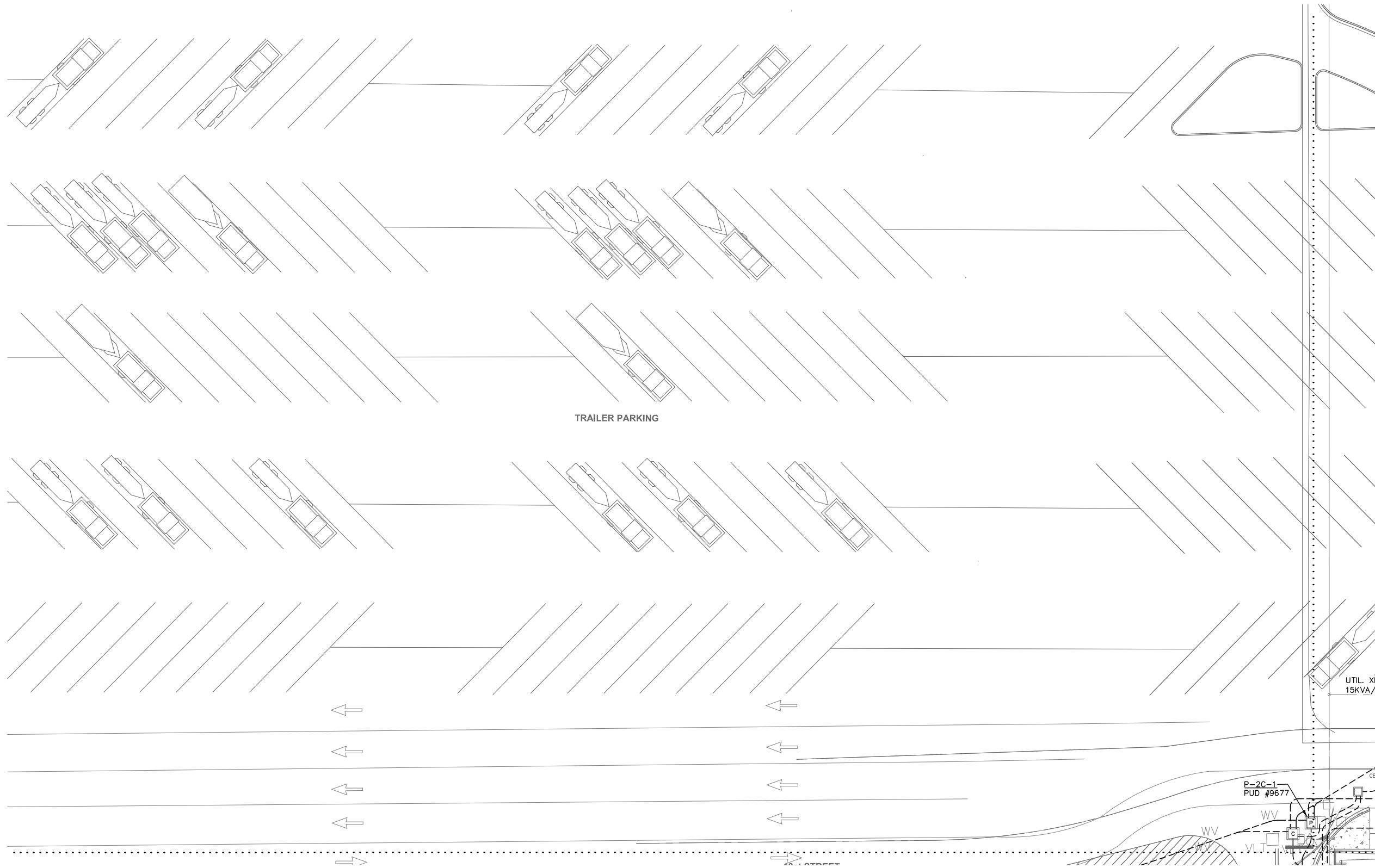
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**SITE ELECTRICAL
INFRASTRUCTURE PROJECT**
ELECTRICAL PLAN
ZONE 2B

DWG. NO.	E2.2B
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

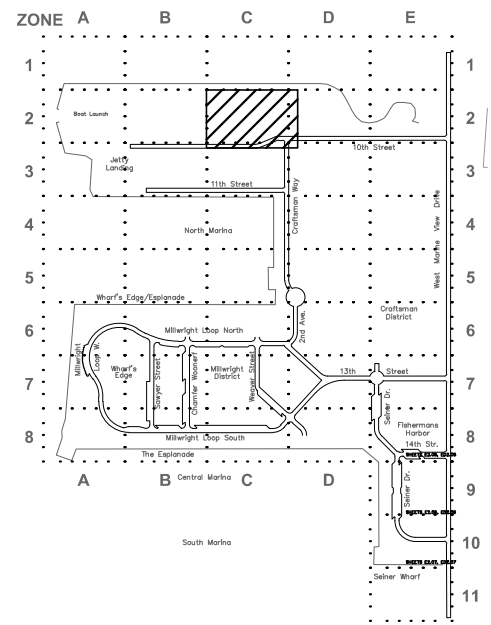
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HPE PROJECT NUMBER: 2015-001

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



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KEY PLAN

ELECTRICAL PLAN - ZONE 2C



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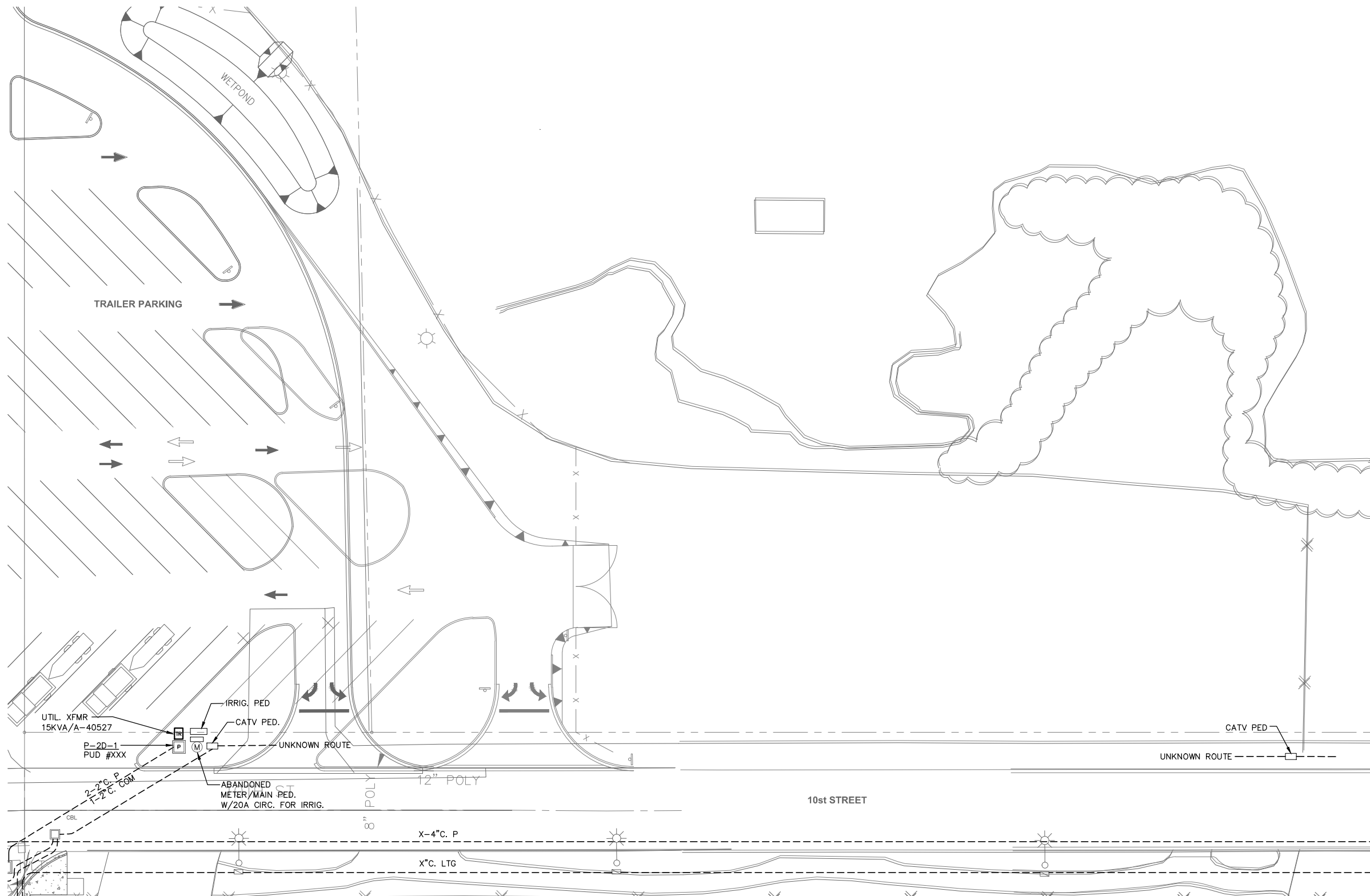
PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 ELECTRICAL PLAN
 ZONE 2C

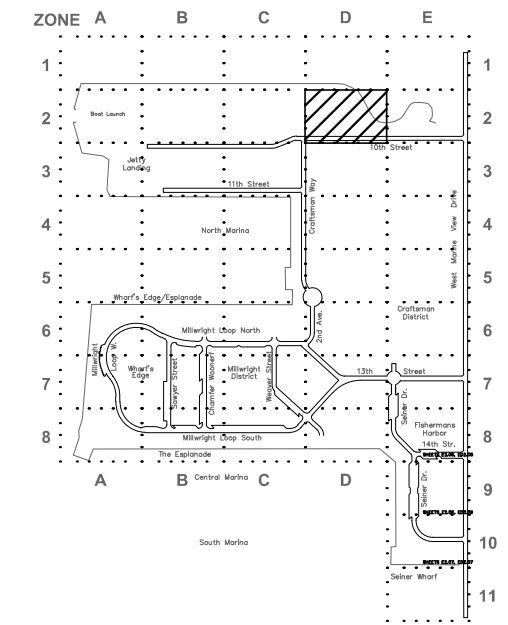
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PROJECT NO.	
SHEET NO.	OF XX

NO.	DATE	BY	REVISION

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 2D



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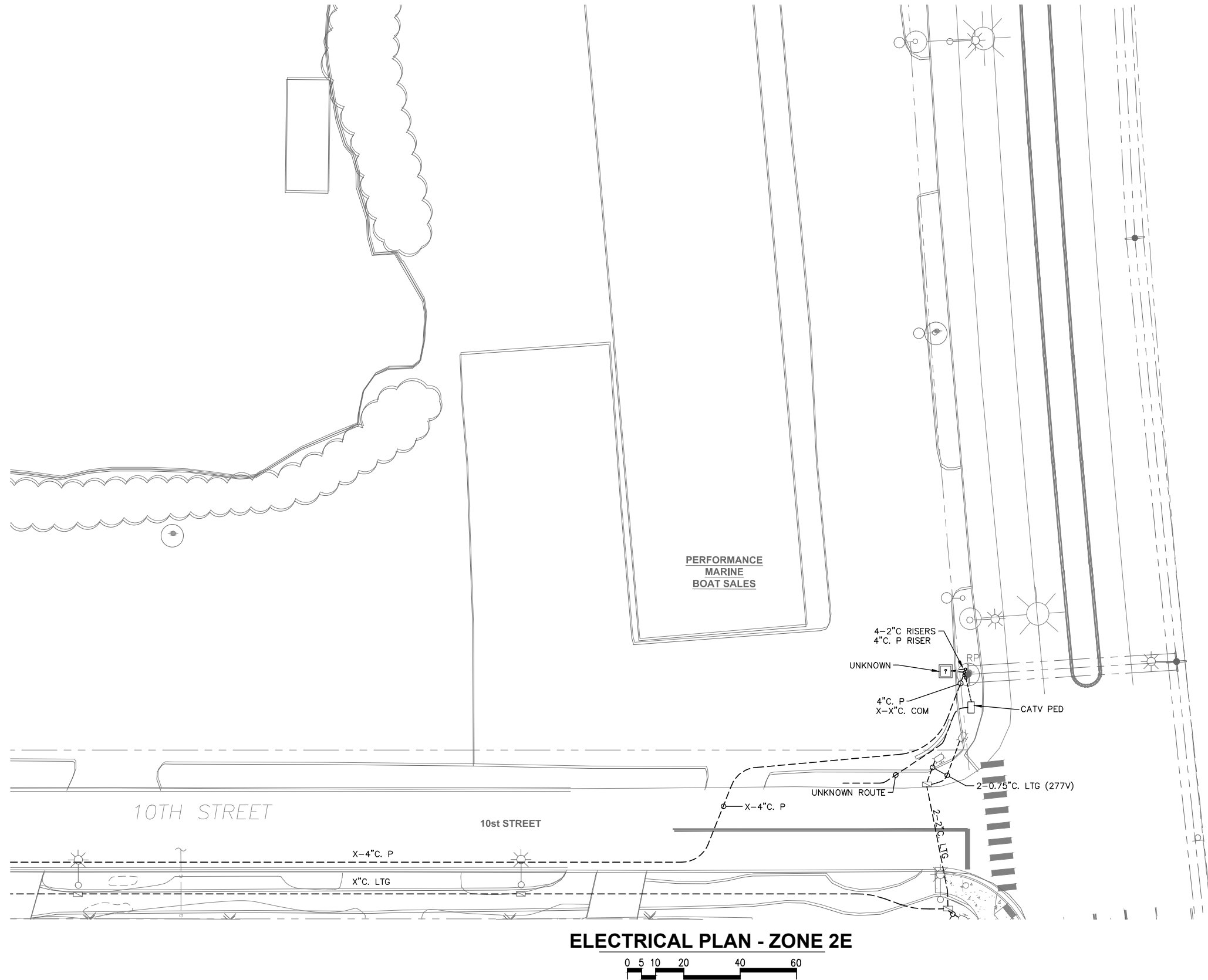
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

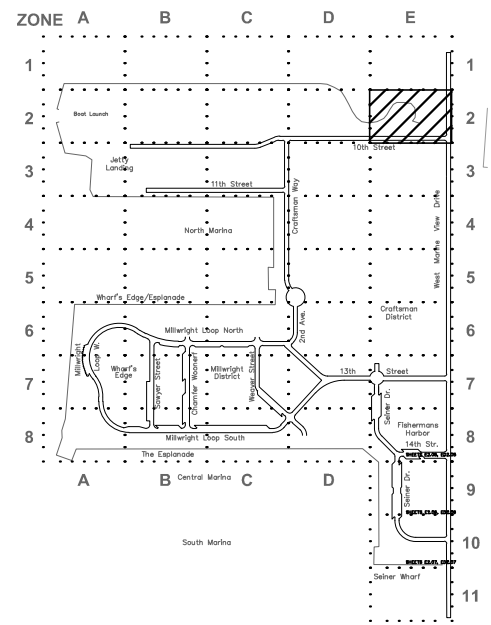
PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 ELECTRICAL PLAN
 ZONE 2D

DWG. NO.	E2.2D
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PROJECT NO.	
SHEET NO.	OF XX

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ELECTRICAL PLAN - ZONE 2E



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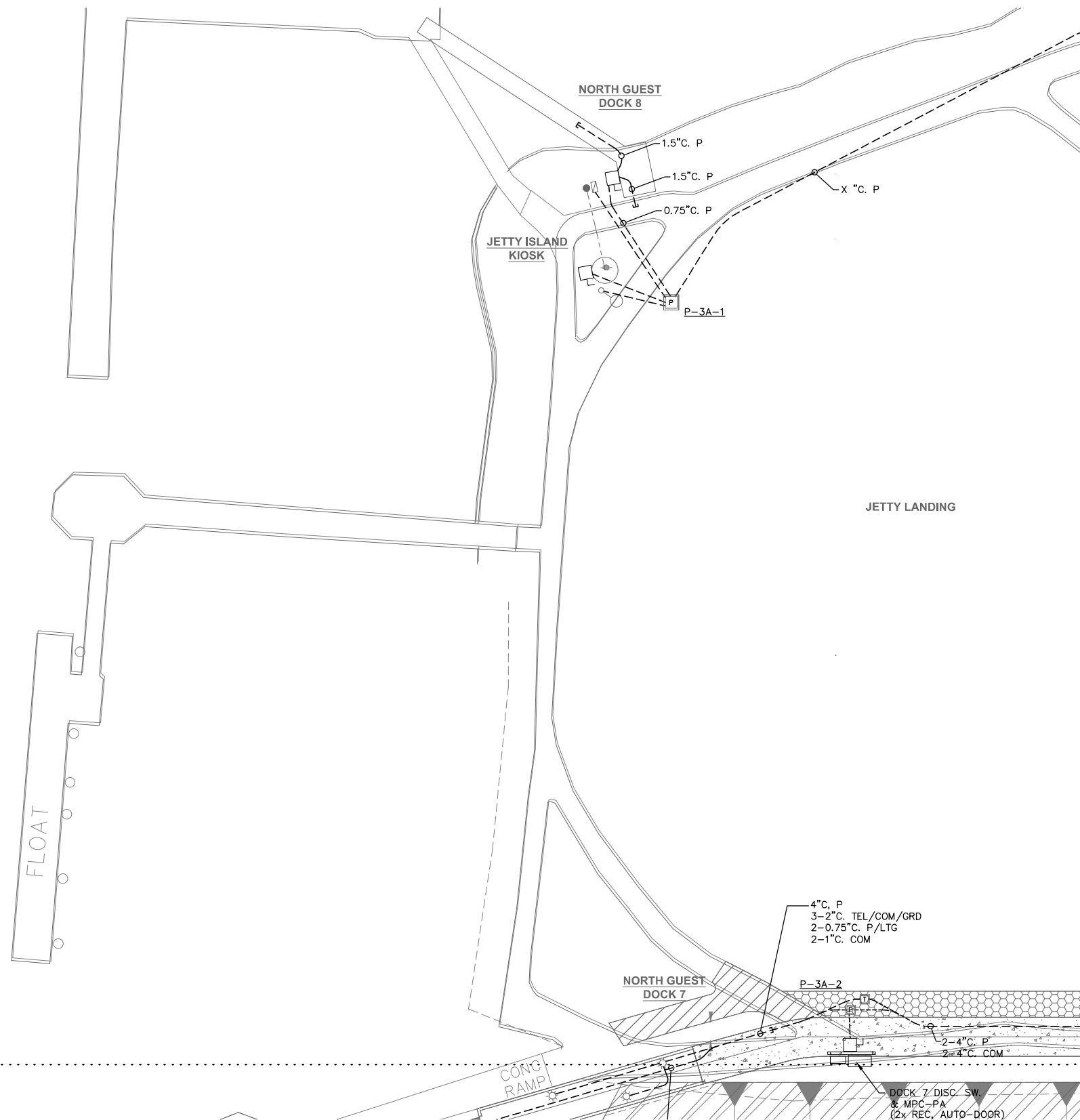
NO.	DATE	BY	REVISION

PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

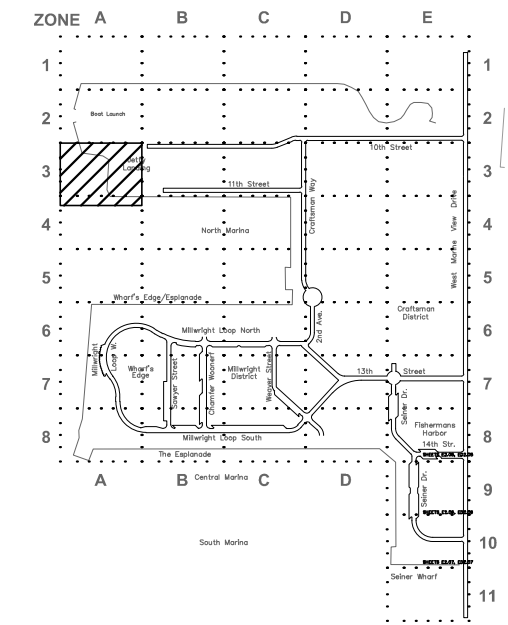
PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 2E

DWG. NO.	E2.2E
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 3A



KEY PLAN



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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

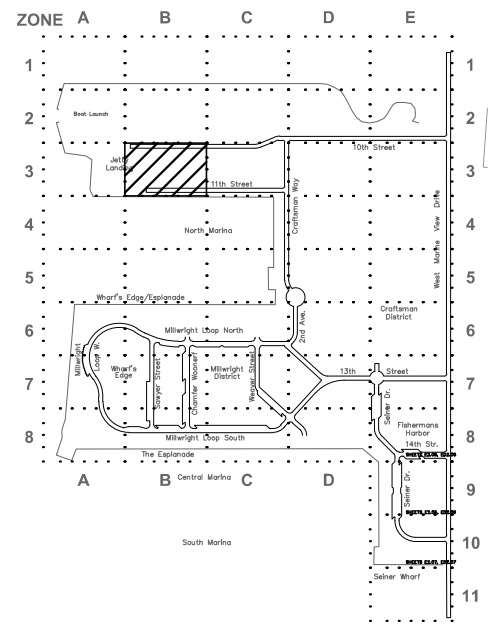
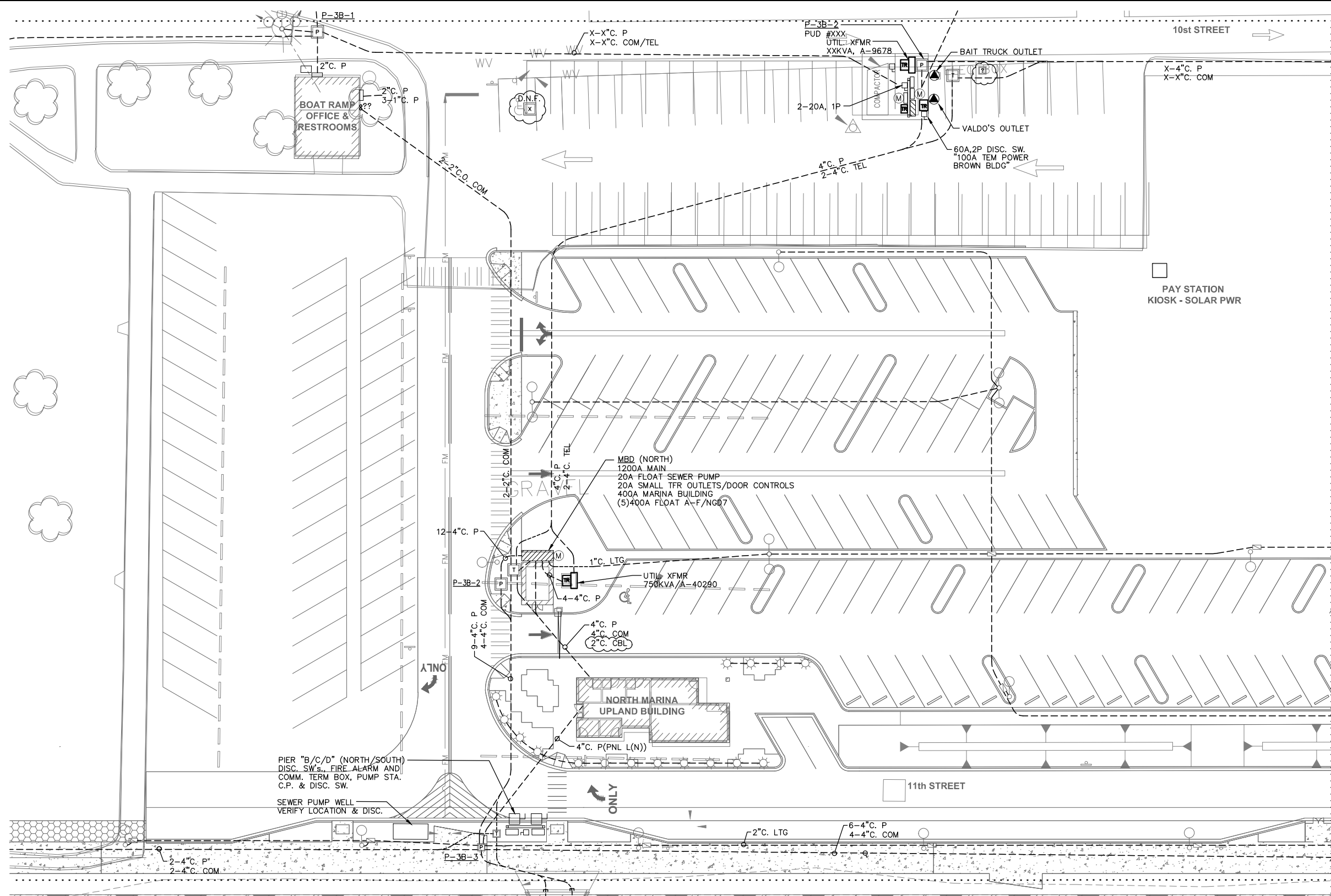
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SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 3

DWG. NO.	E2.3A
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

NO.	DATE	BY	REVISION

HPE PROJECT NUMBER: 2015-001

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN

ELECTRICAL PLAN - ZONE 3B



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 Fax: 206-624-1388
 mail@pndengineers.com



HPE PROJECT NUMBER: 2015-001

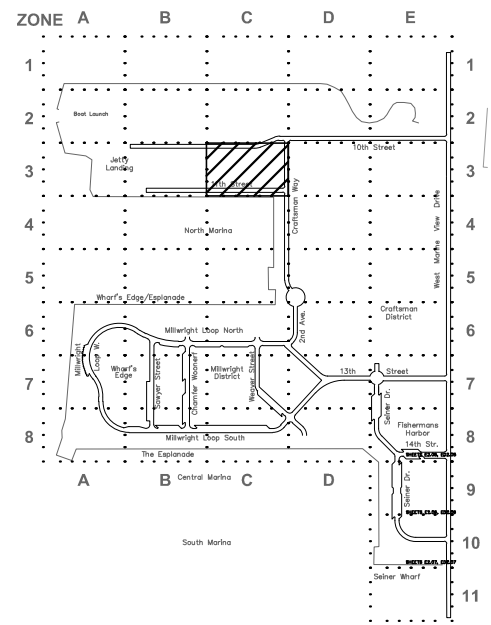
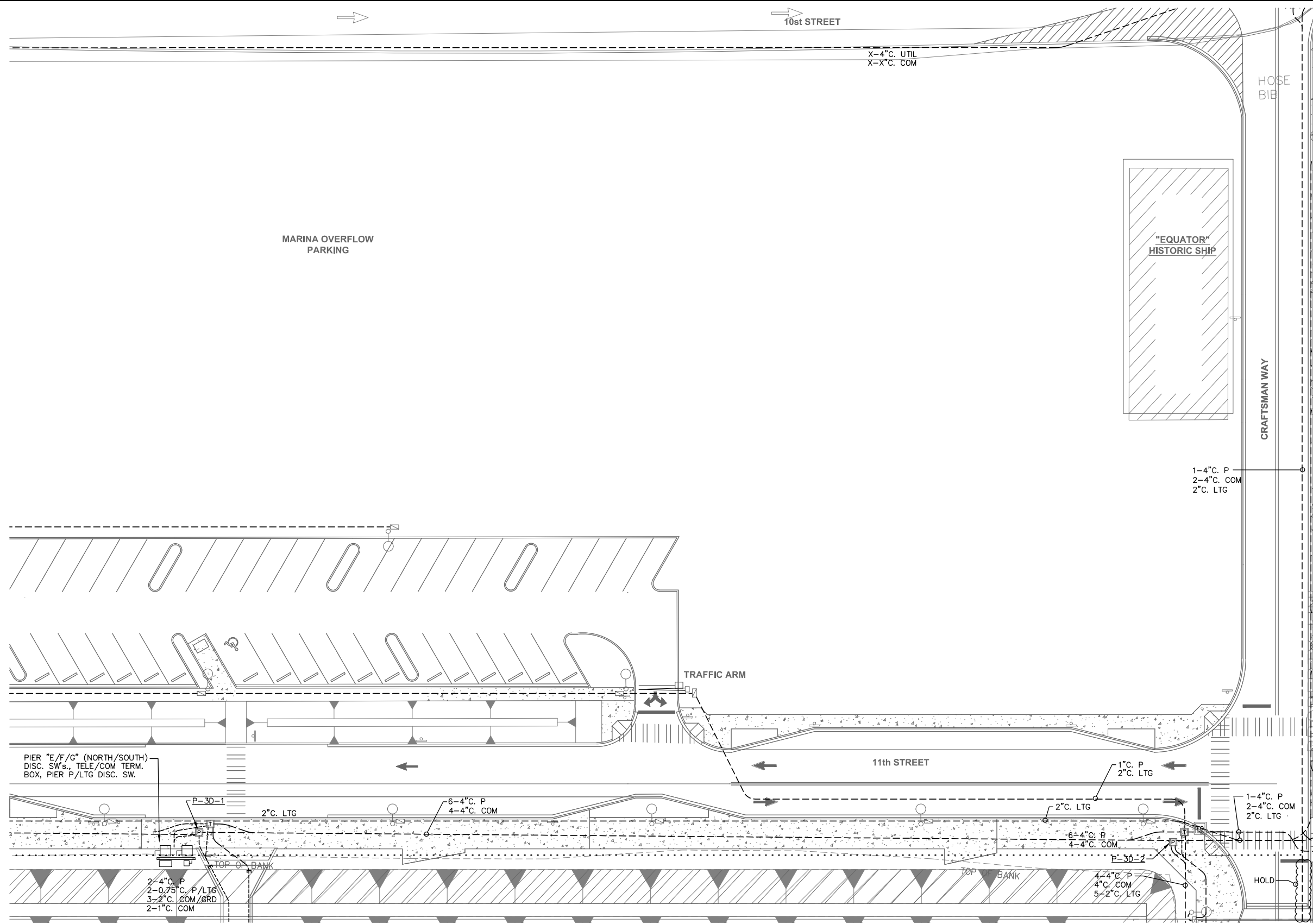
NO.	DATE	BY	REVISION

PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 ELECTRICAL PLAN
 ZONE 3B

DWG. NO.	E2.3B
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN

ELECTRICAL PLAN - ZONE 3C

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Seattle, Washington 98134
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Fax: 206-624-1388
mail@pndengineers.com



HPE PROJECT NUMBER: 2015-001

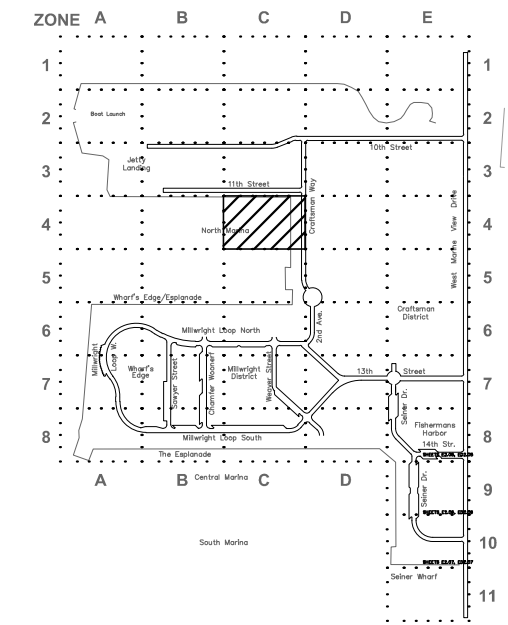
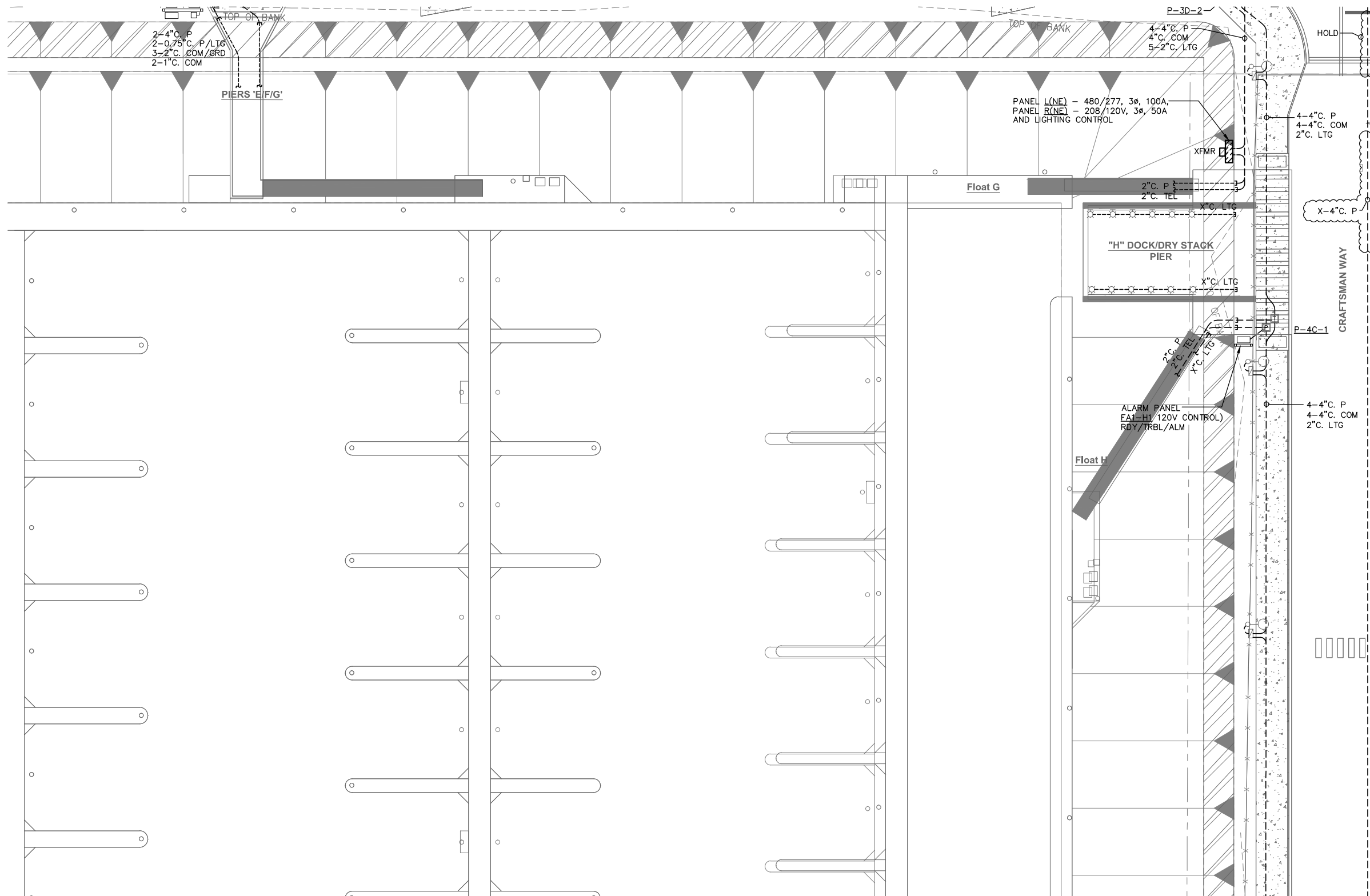
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 3C

DWG. NO.	E2.3C
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 4C



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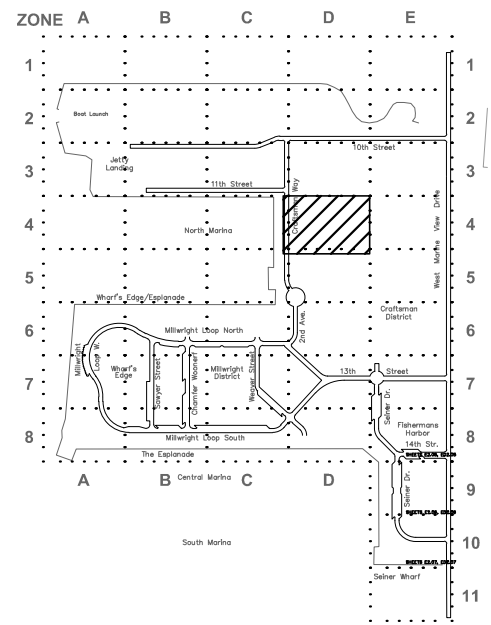
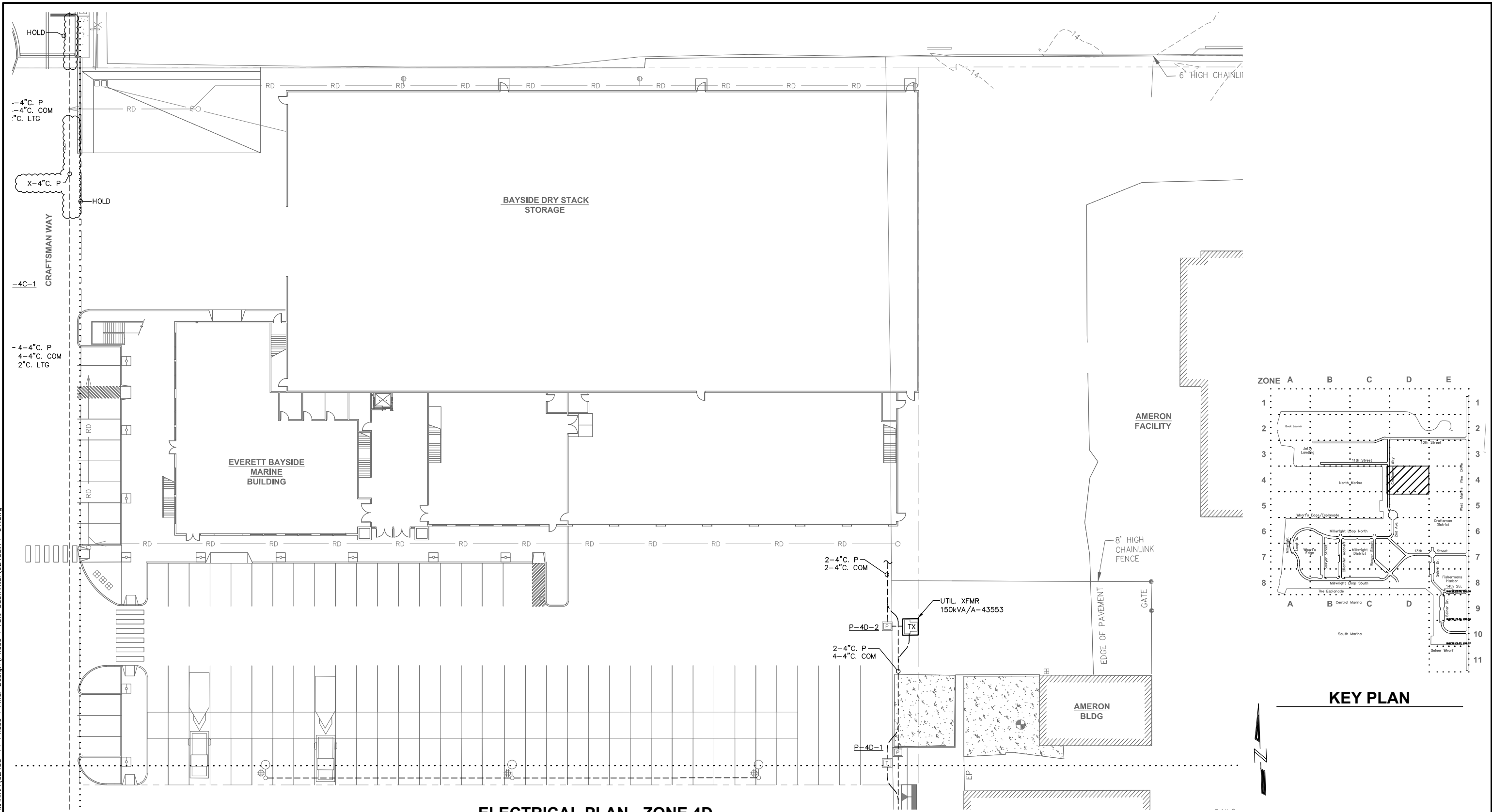
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
 SITE ELECTRICAL
 INFRASTRUCTURE PROJECT
 ELECTRICAL PLAN
 ZONE 4C

DWG. NO.	E2.4C
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455-11-01.dwg



ELECTRICAL PLAN - ZONE 4D



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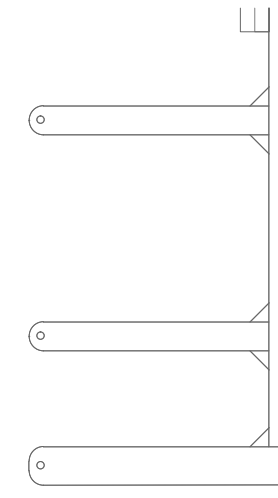
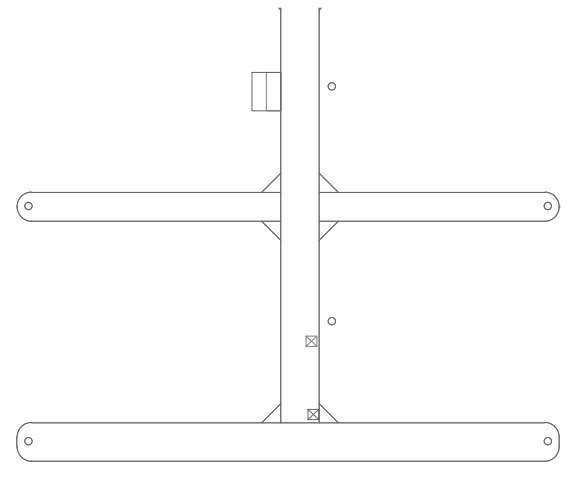
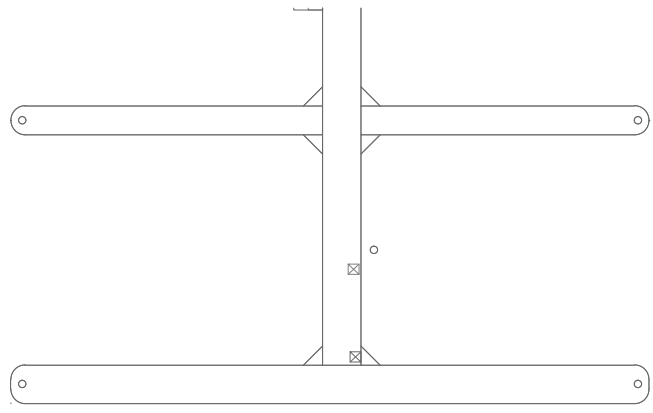
NO.	DATE	BY	REVISION

PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

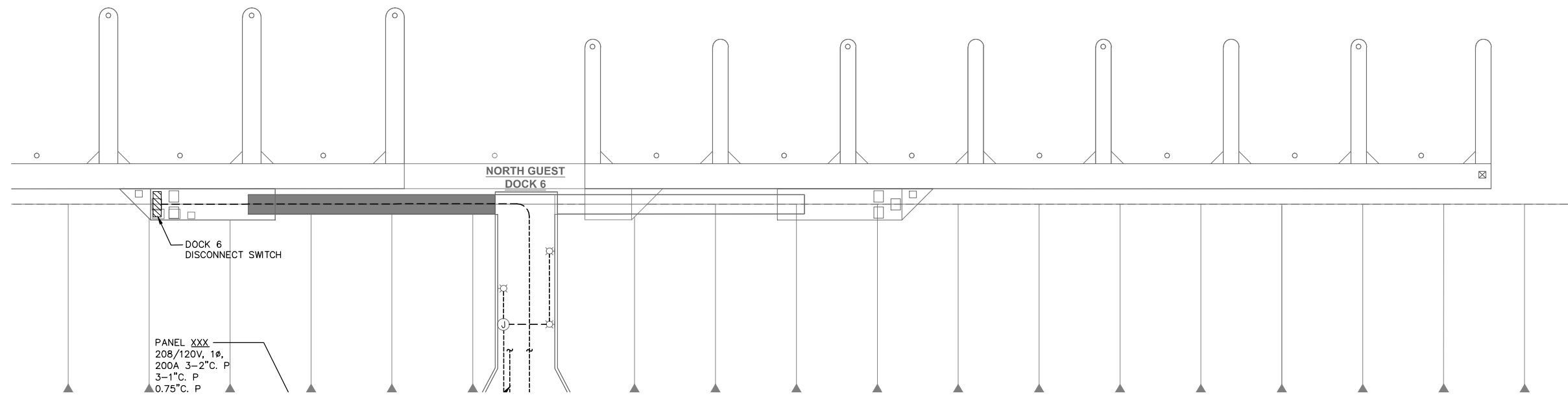
PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 4D

DWG. NO.	E2.4D
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg

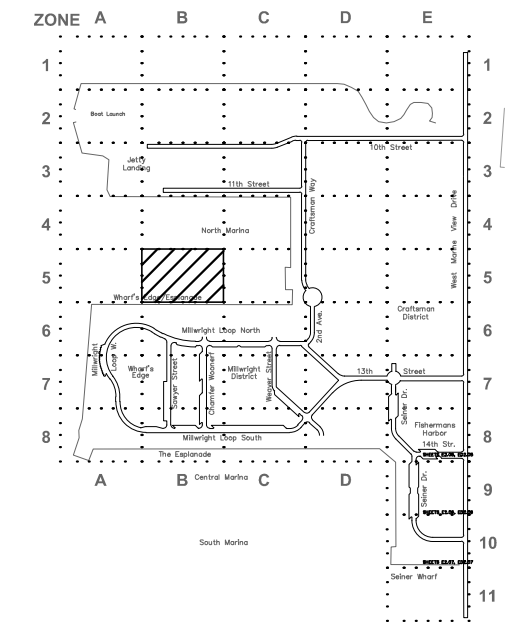
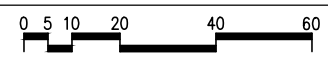


NORTH DOCKS



PANEL XXX
208/120V, 1φ,
200A 3-2\"/>

ELECTRICAL PLAN - ZONE 5B



KEY PLAN



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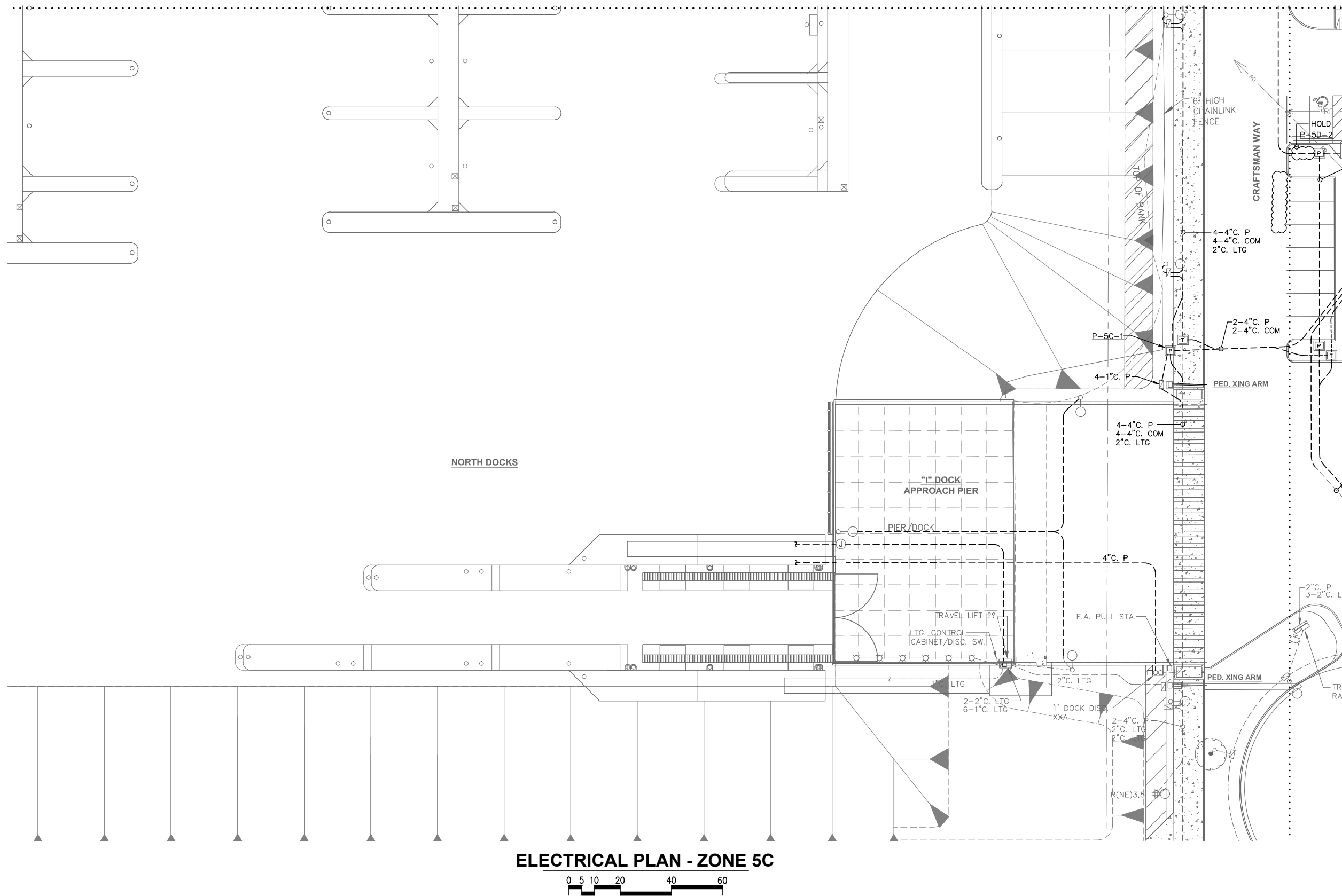
NO.	DATE	BY	REVISION

PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

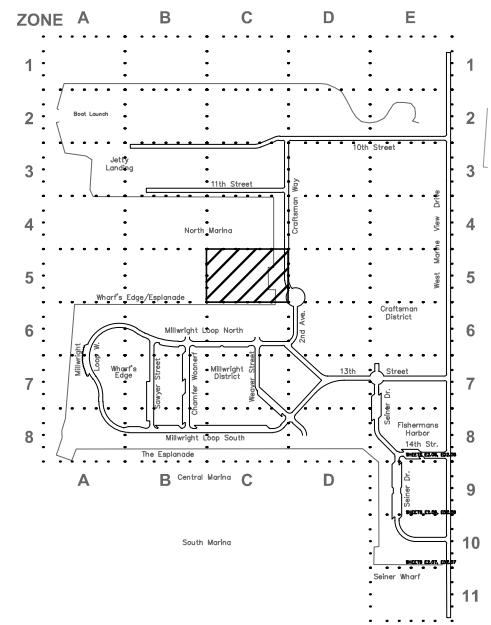
PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 5B

DWG. NO.	E2.5B
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 5C



KEY PLAN



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NO.	DATE	BY	REVISION



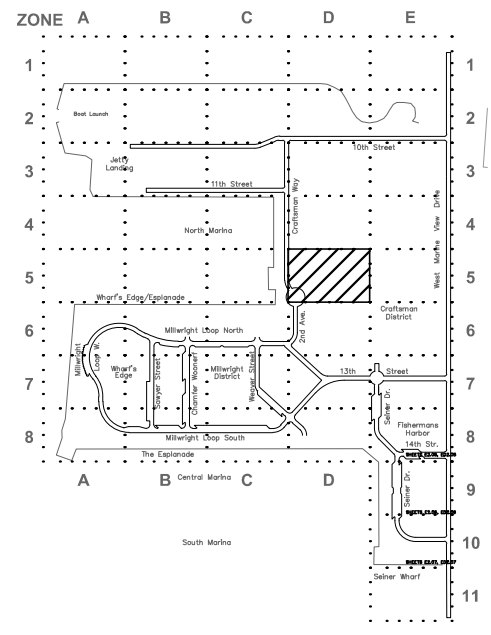
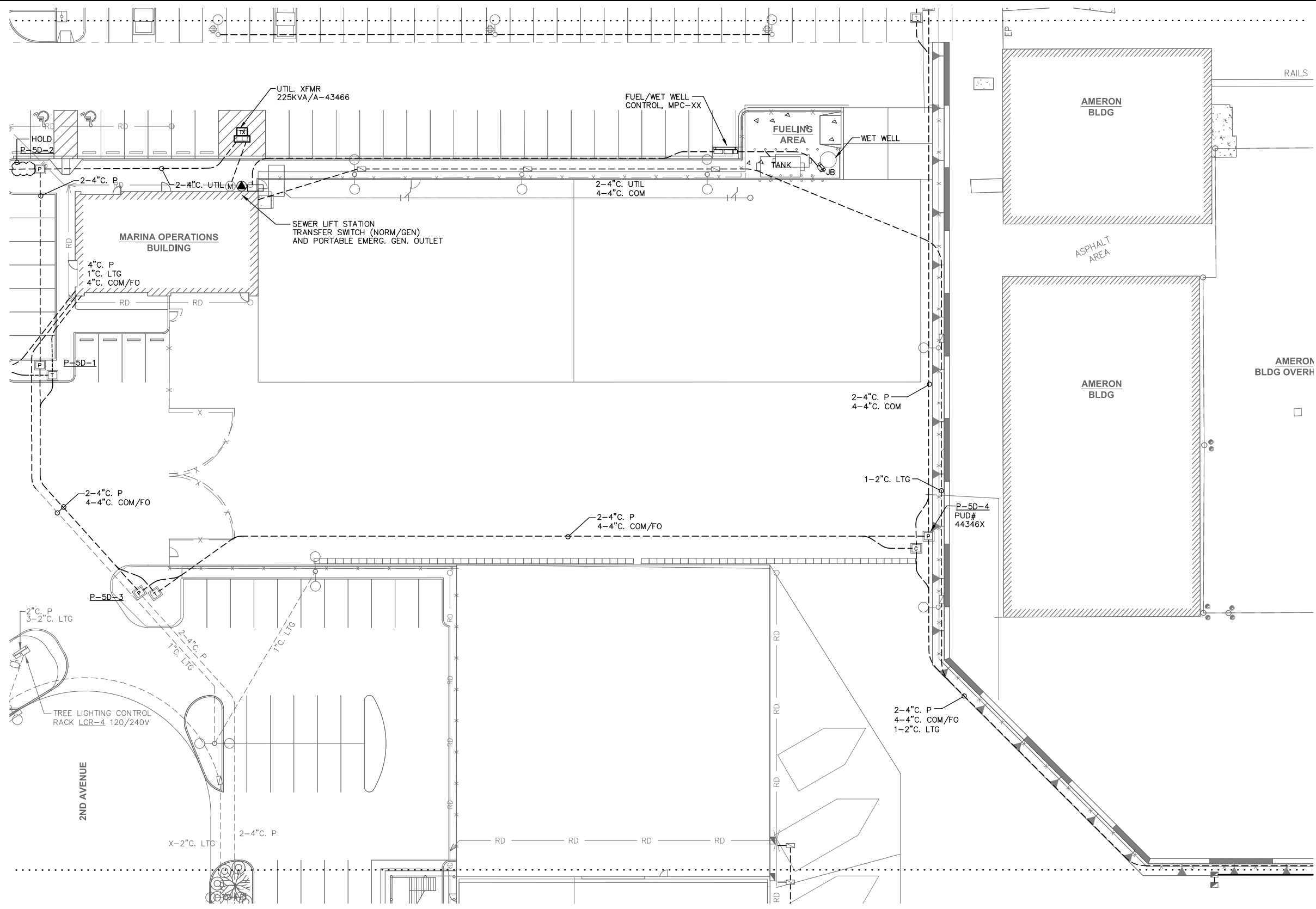
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 5C

DWG. NO.	E2.5C
CIP NO.	3-8-003-01
PROJECT NO.	
SHEET NO.	OF XX

Drawings\2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN



ELECTRICAL PLAN - ZONE 5D 0 5 10 20 40 60

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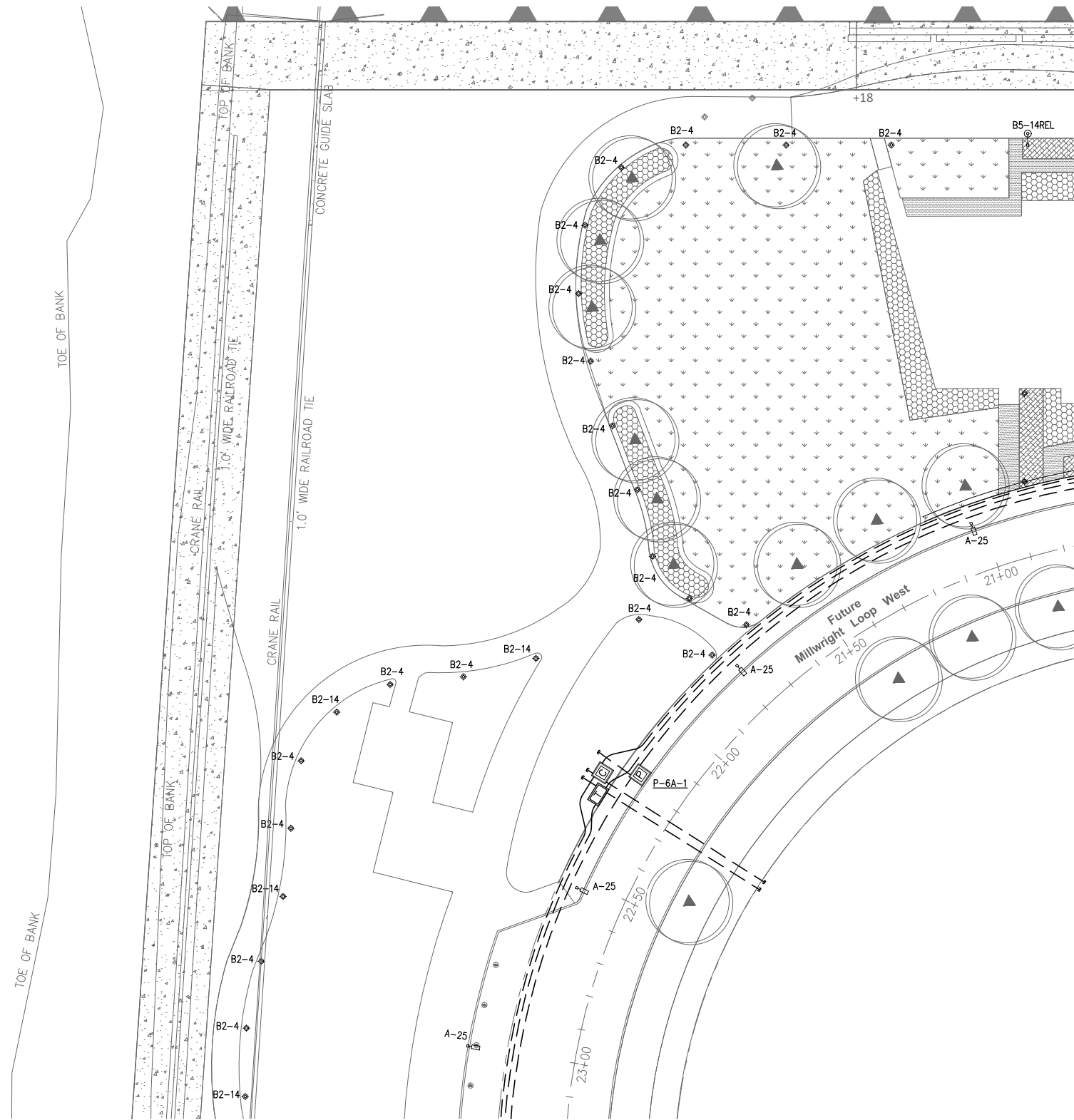
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DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
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PORT OF EVERETT
SITE ELECTRICAL
INFRASTRUCTURE PROJECT
ELECTRICAL PLAN
ZONE 5D

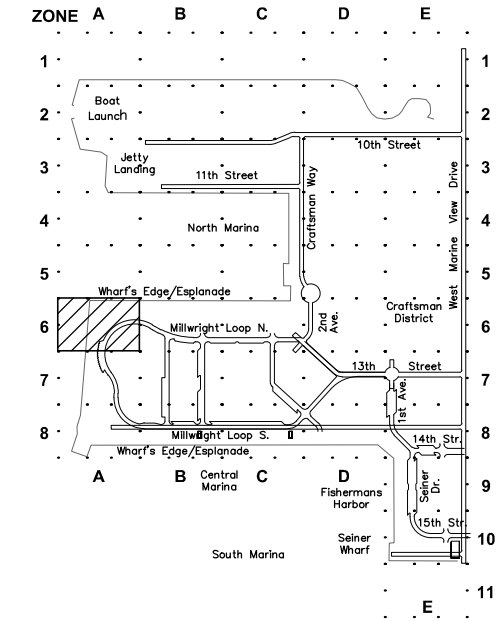
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PROJECT NO.	
SHEET NO.	OF XX

NO.	DATE	BY	REVISION

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ELECTRICAL PLAN - ZONE 6A



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NO.	DATE	BY	REVISION

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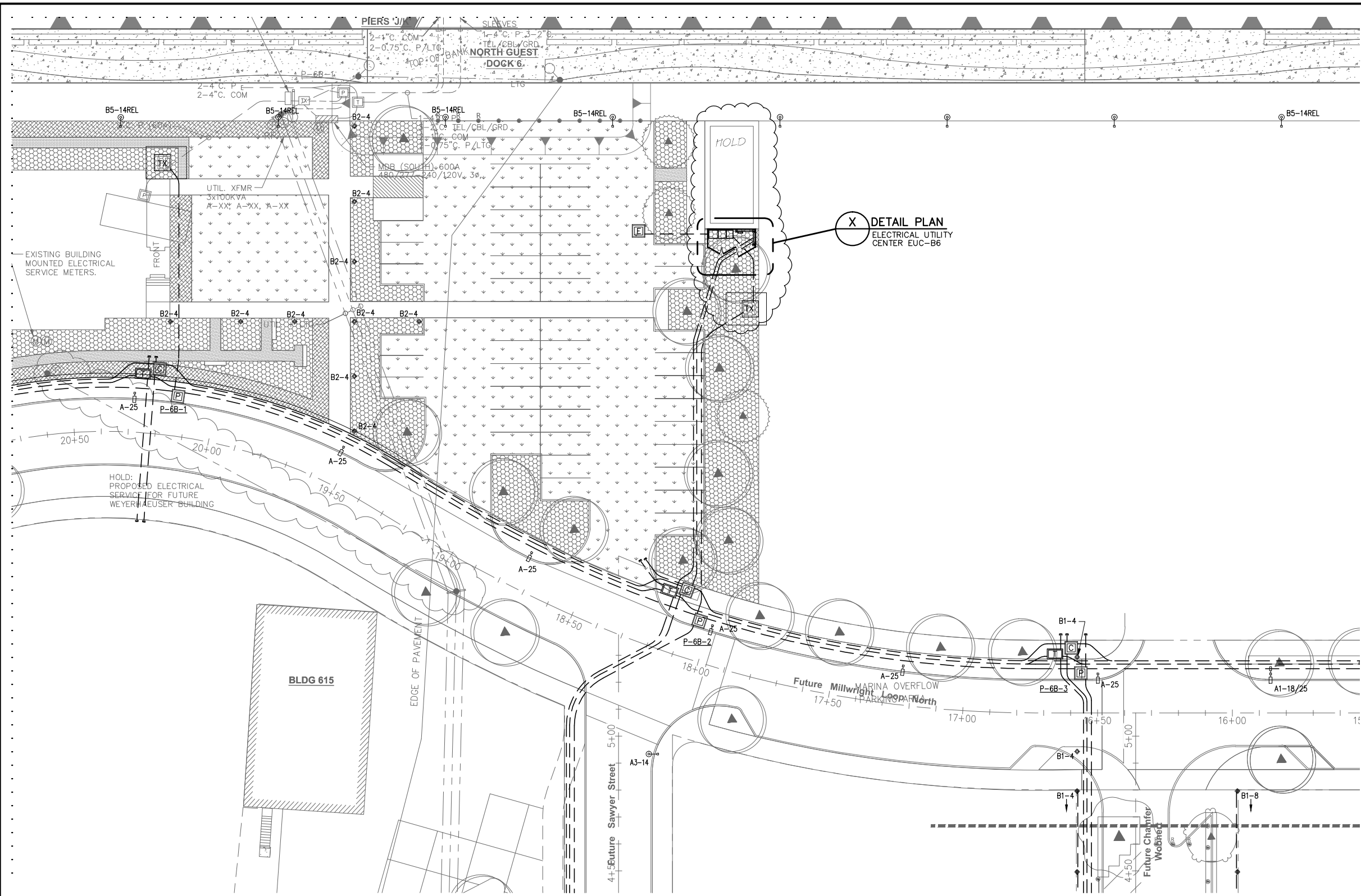
PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NOTED
DATE:
DEC. 2015
CHECKED BY:

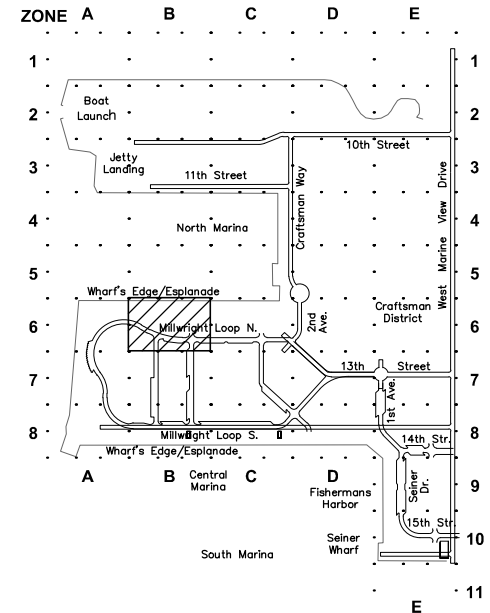
PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 6A AND SYMBOLS

DWG. NO.	E2.6A
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	X OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 6B 0 5 10 20 40 60



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

NO.	DATE	BY	REVISION

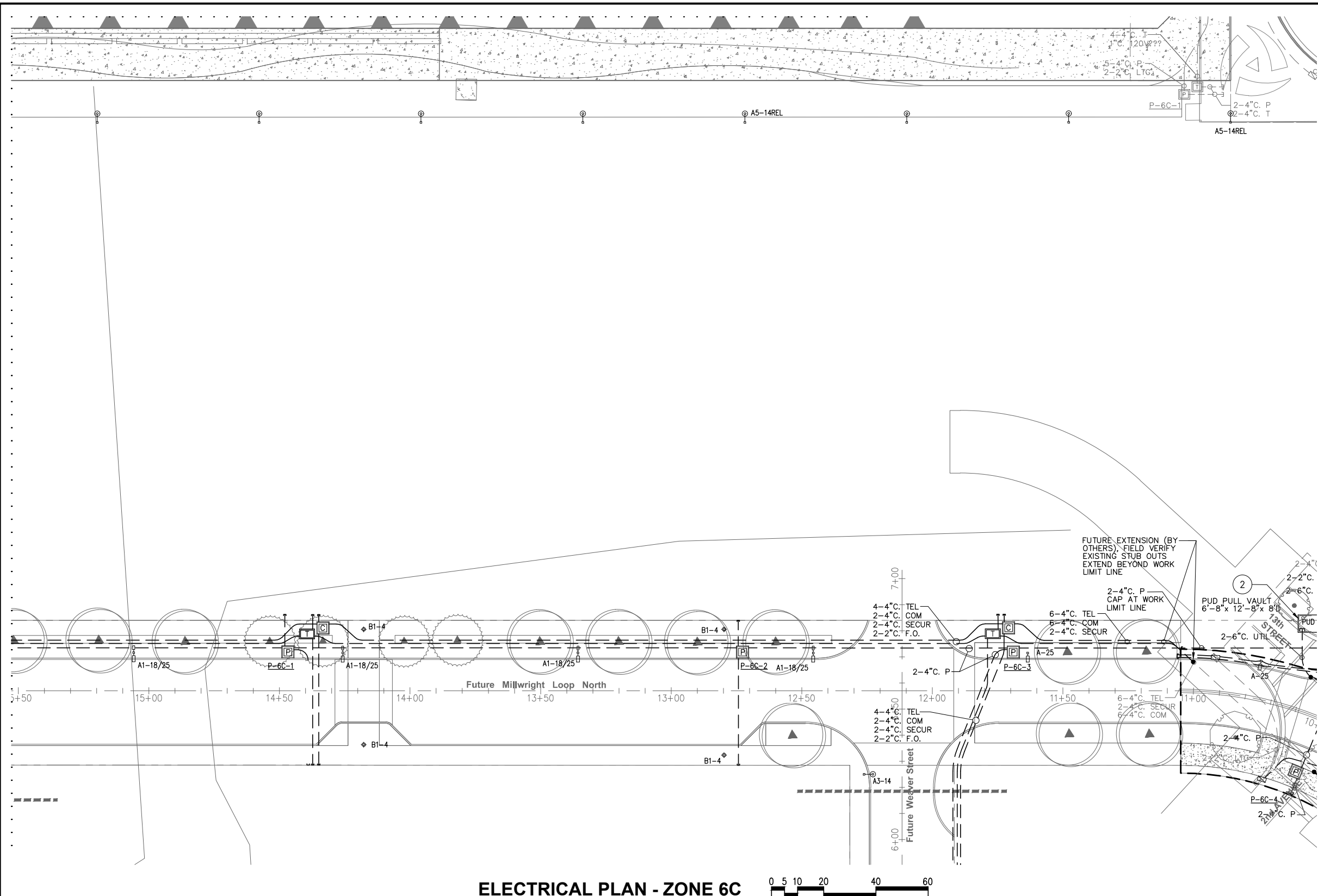
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

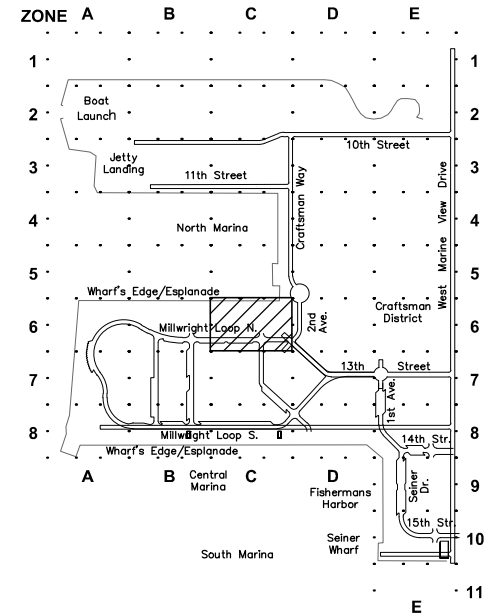
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WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 6B

DWG. NO.	E2.6B
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455-11-01.dwg



ELECTRICAL PLAN - ZONE 6C



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



NO.	DATE	BY	REVISION

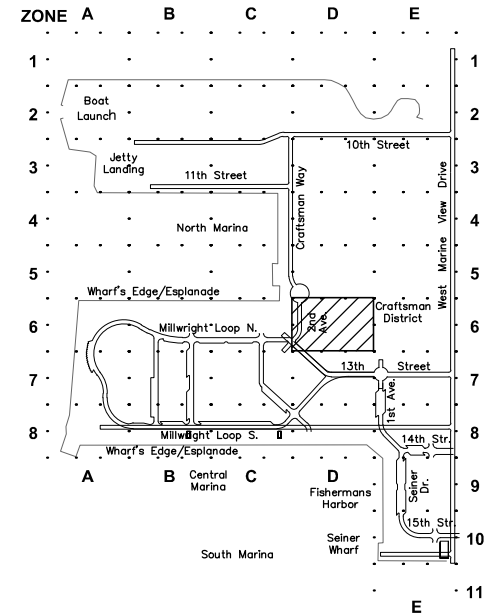
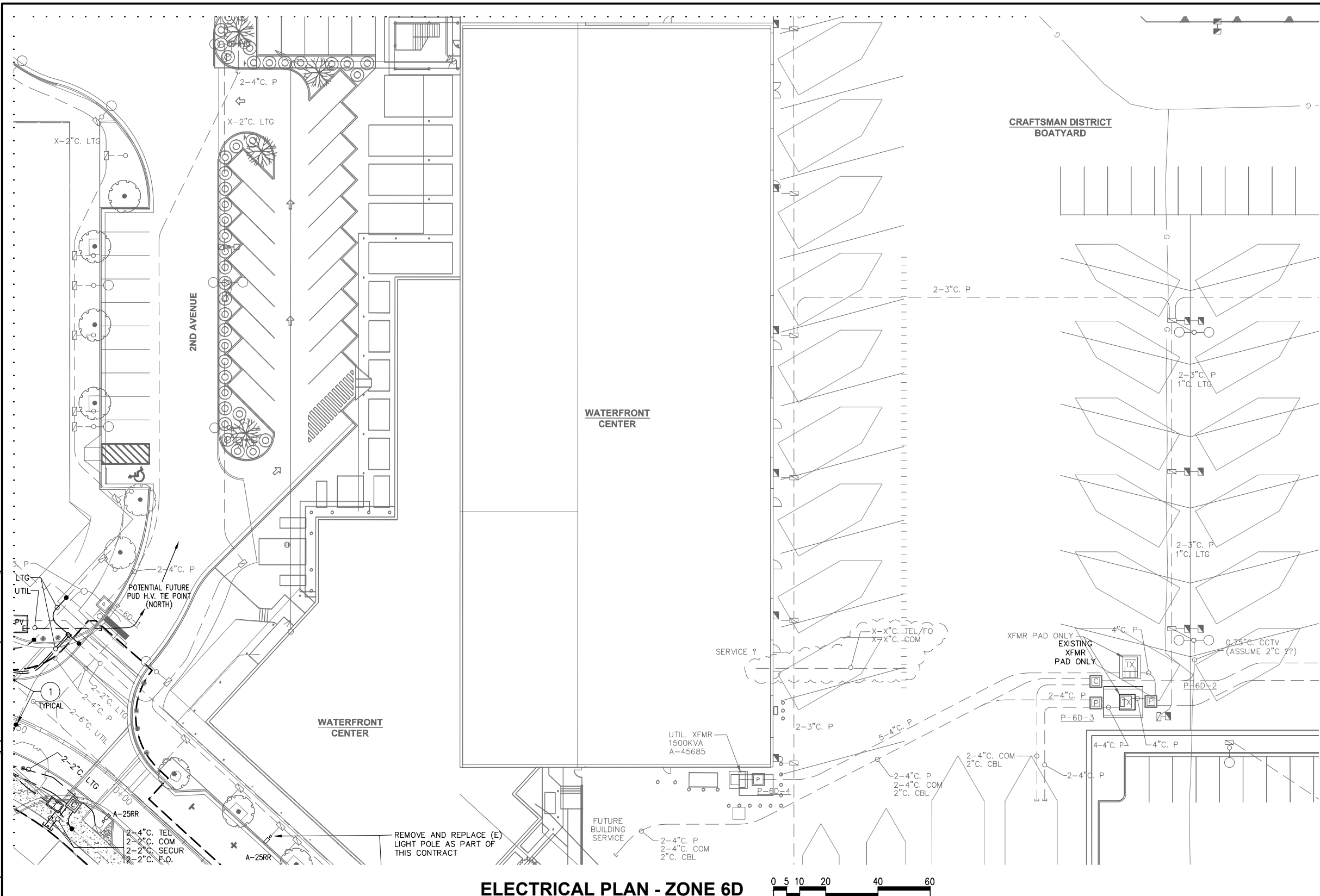
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 6C

DWG. NO.	E2.6C
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN

ELECTRICAL PLAN - ZONE 6D

90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

NO.	DATE	BY	REVISION

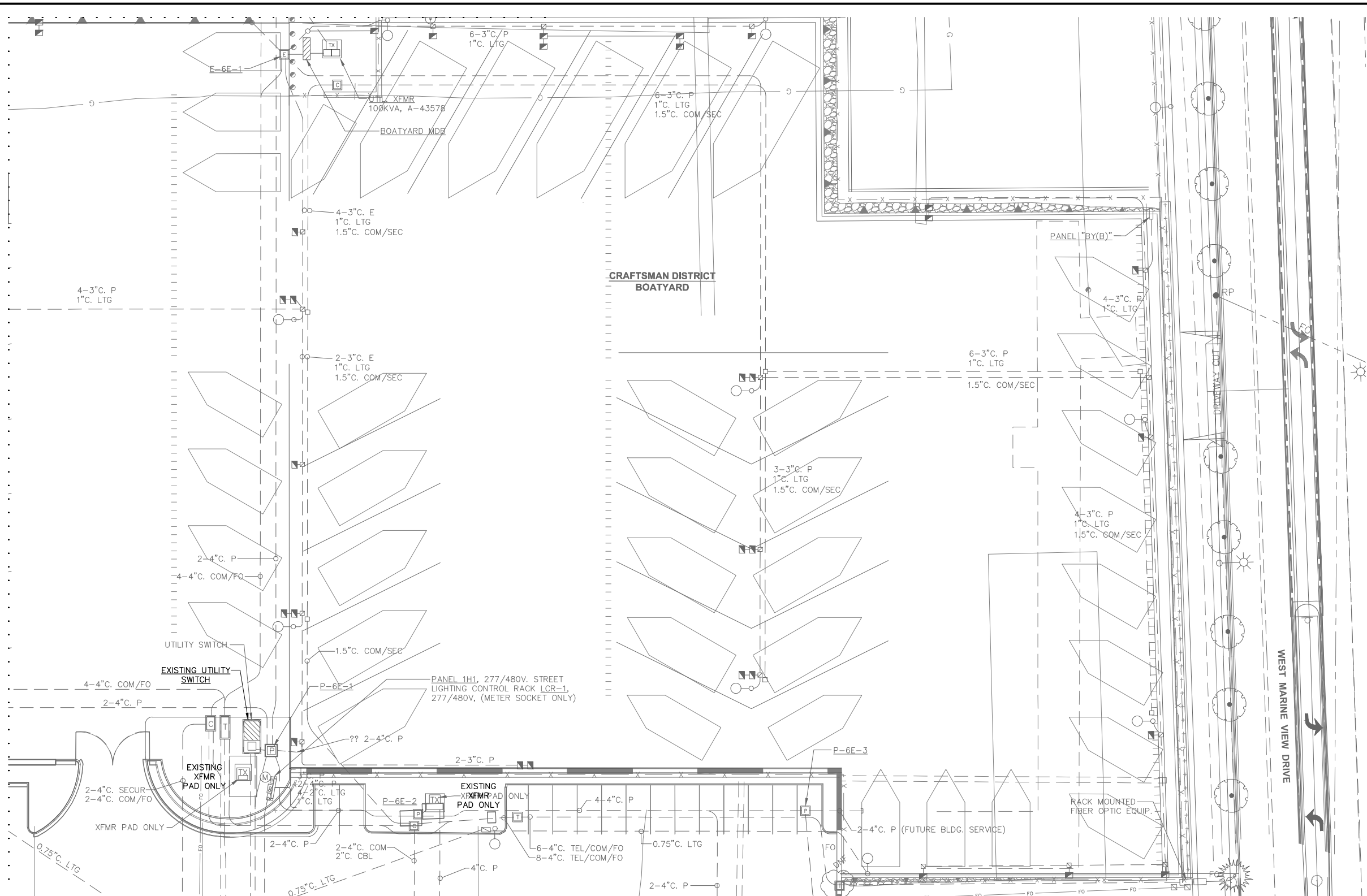
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

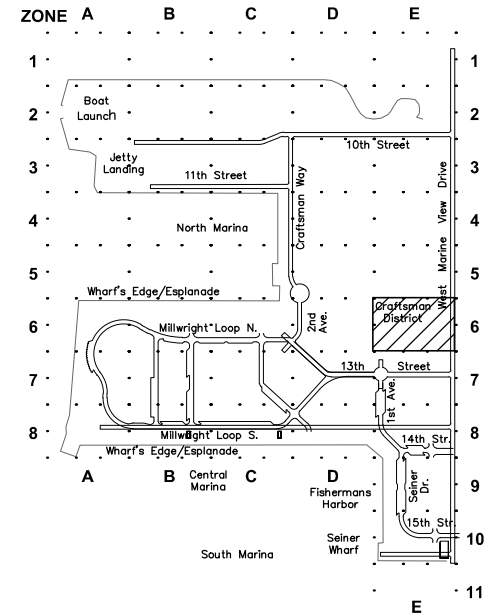
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WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 6D

DWG. NO.	E2.6D
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET_MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 6E



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

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PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

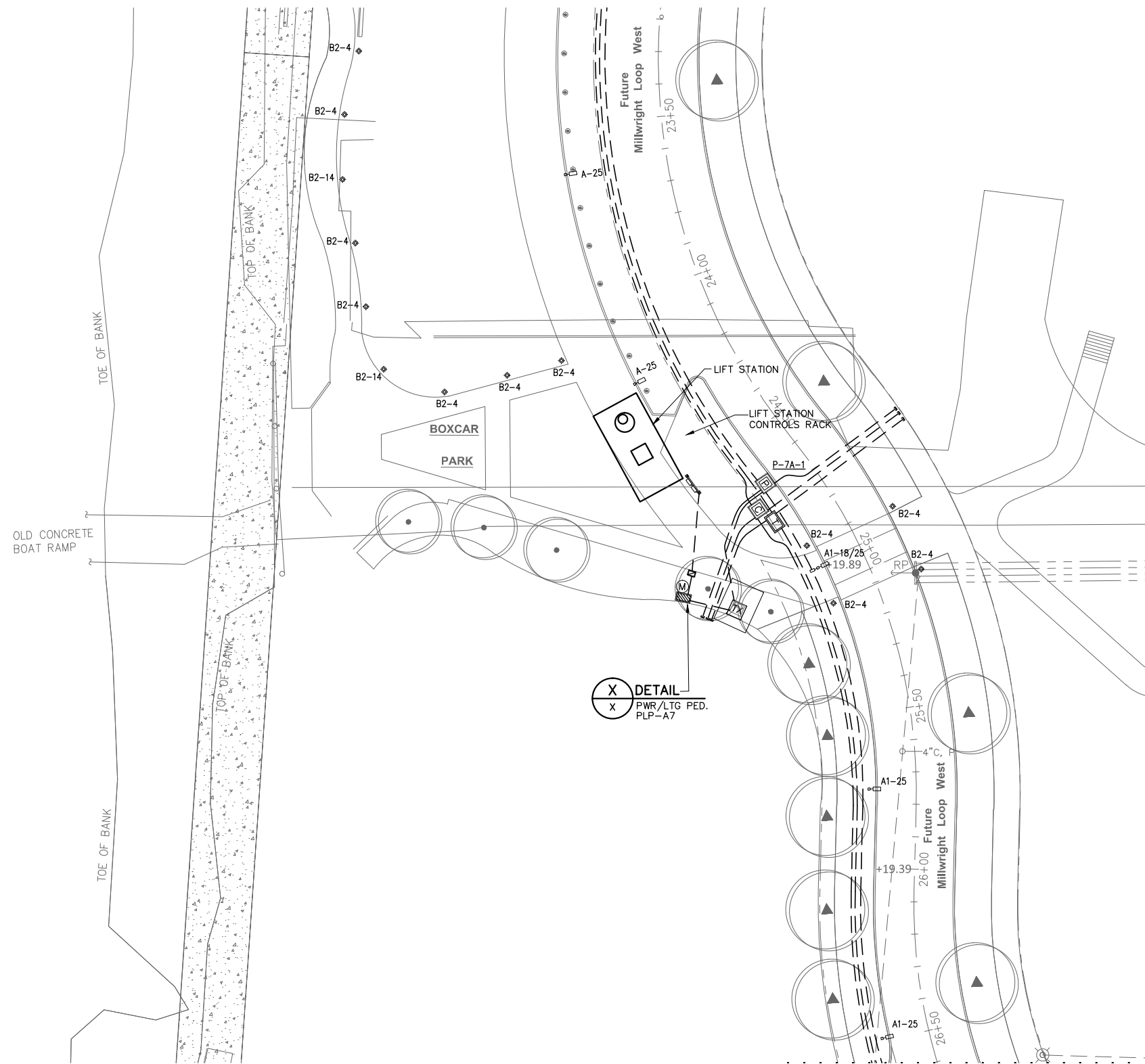
SCALE:
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DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 6E

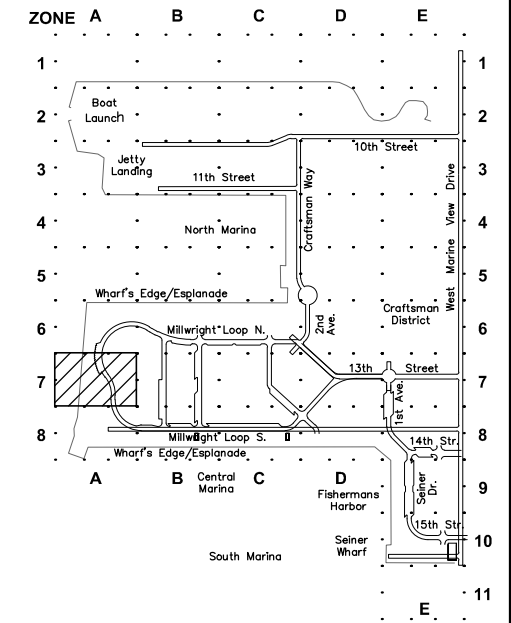
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CIP NO. **3-8-003-01**
PROJECT NO. **---**
SHEET NO. **OF XX**

Drawings 2002\02455-12TH STREET_MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg

SNOHOMISH RIVER



ELECTRICAL PLAN - ZONE 7A



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

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PROJECT ENGINEER:
E. DAVID

DESIGNED BY:
EJD/JRC

DRAWN BY:
J. CAMPBELL

APPROVED BY:

SCALE:
NOTED

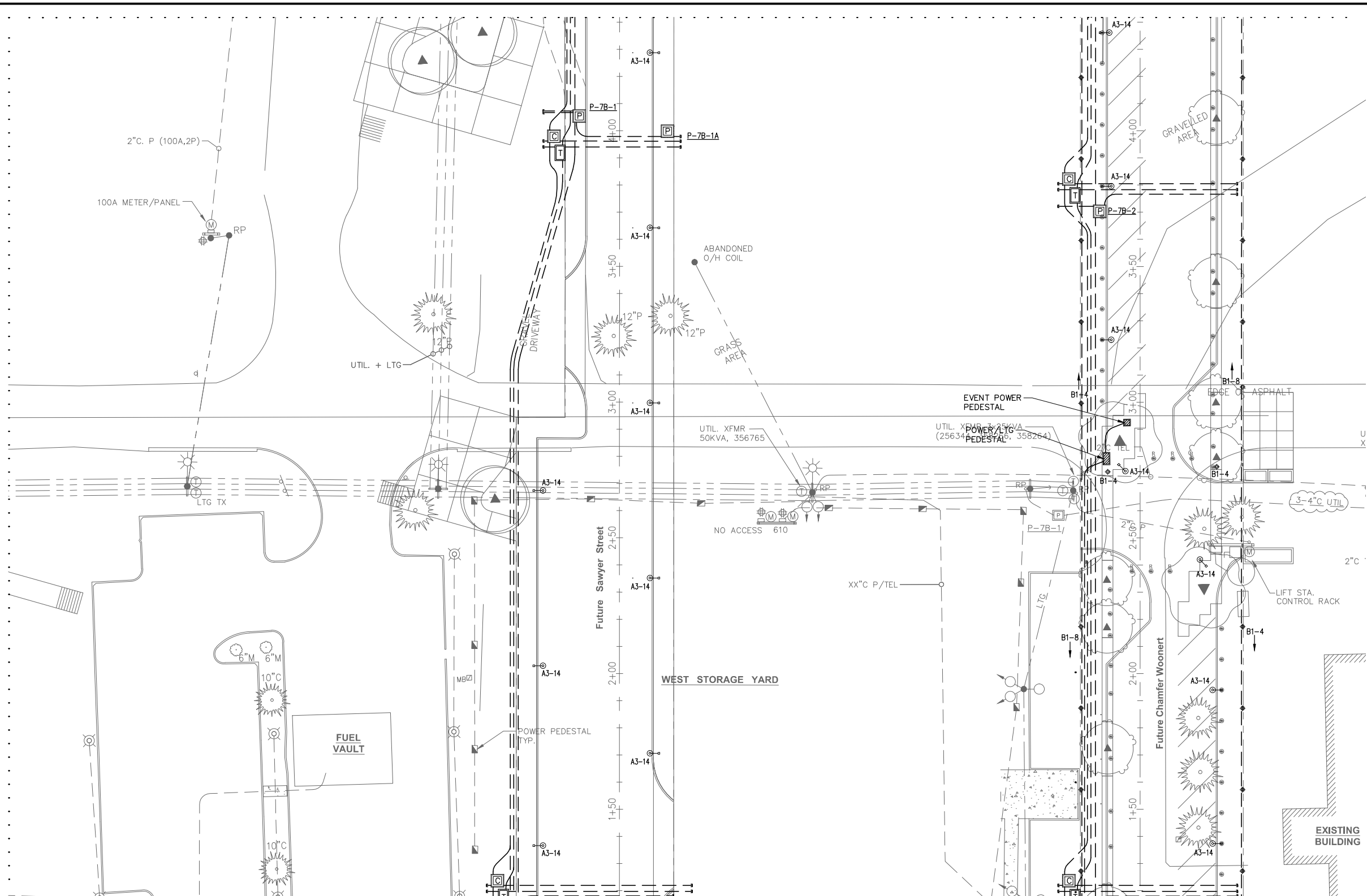
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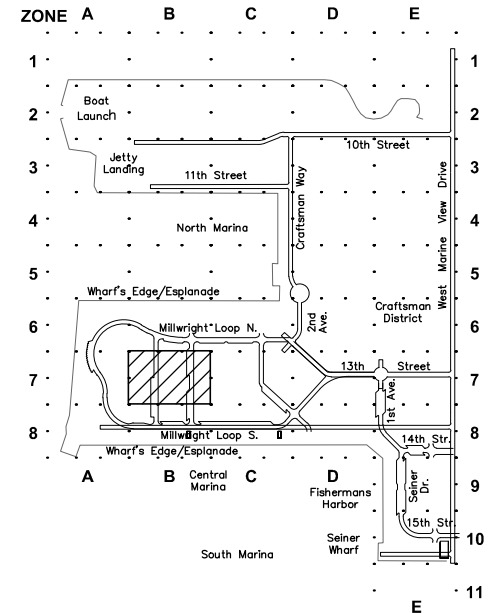
PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 7A

DWG. NO.	E2.7A
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 7B 0 5 10 20 40 60



KEY PLAN

90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

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PROJECT ENGINEER:
E. DAVID

DESIGNED BY:
EJD/JRC

DRAWN BY:
J. CAMPBELL

APPROVED BY:

SCALE:
NOTED

DATE:
DEC. 2015

CHECKED BY:

PORT OF EVERETT

WATERFRONT PLACE

ELECTRICAL INFRASTRUCTURE

ELECTRICAL PLAN

ZONE 7B

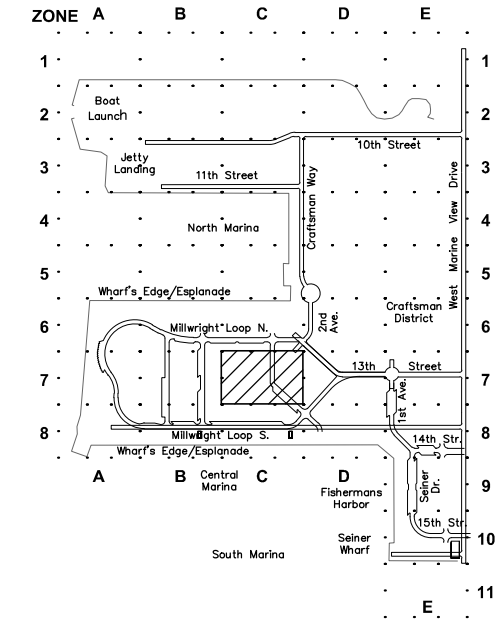
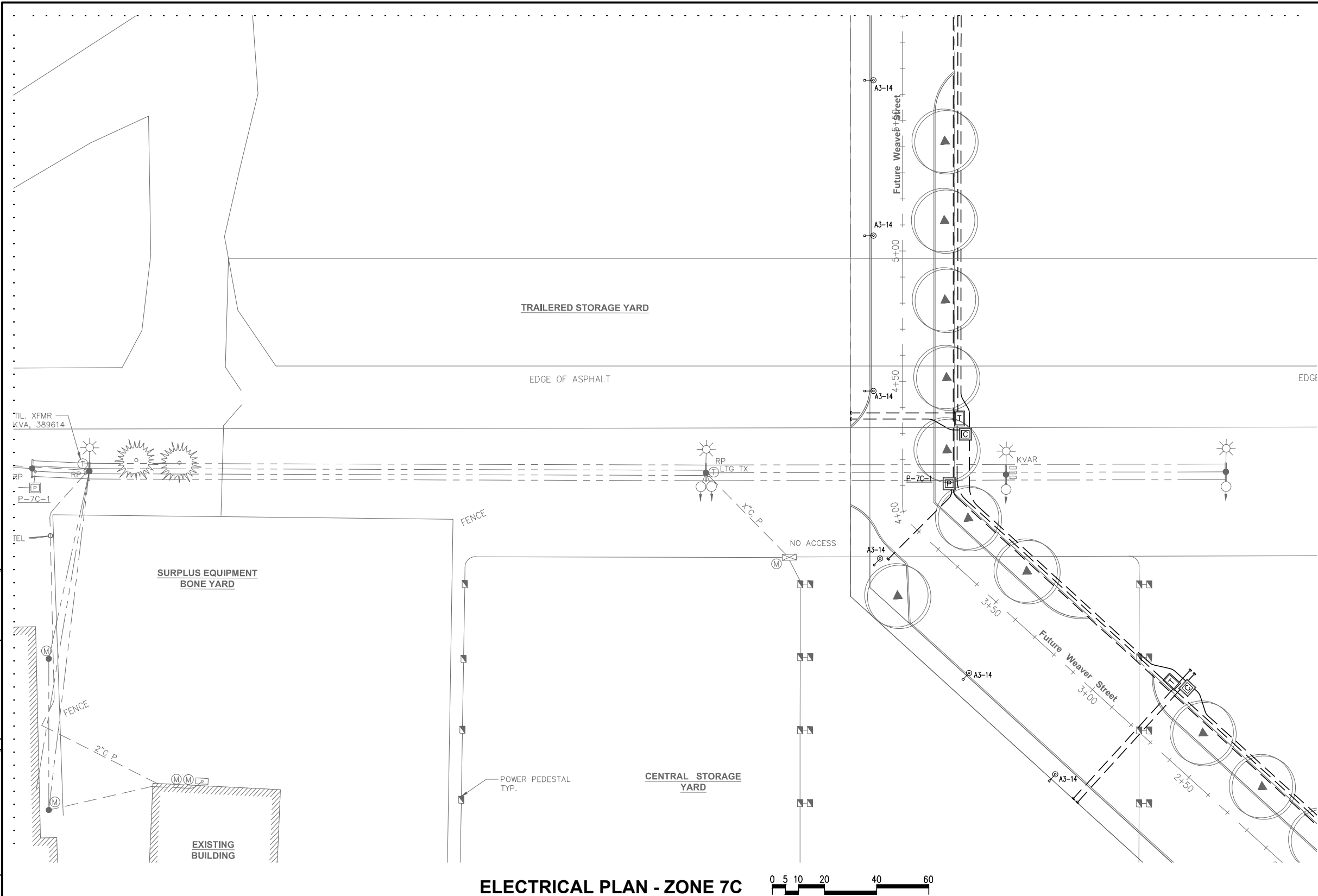
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E2.7B

CIP NO.
3-8-003-01

PROJECT NO.

SHEET NO. OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN

90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

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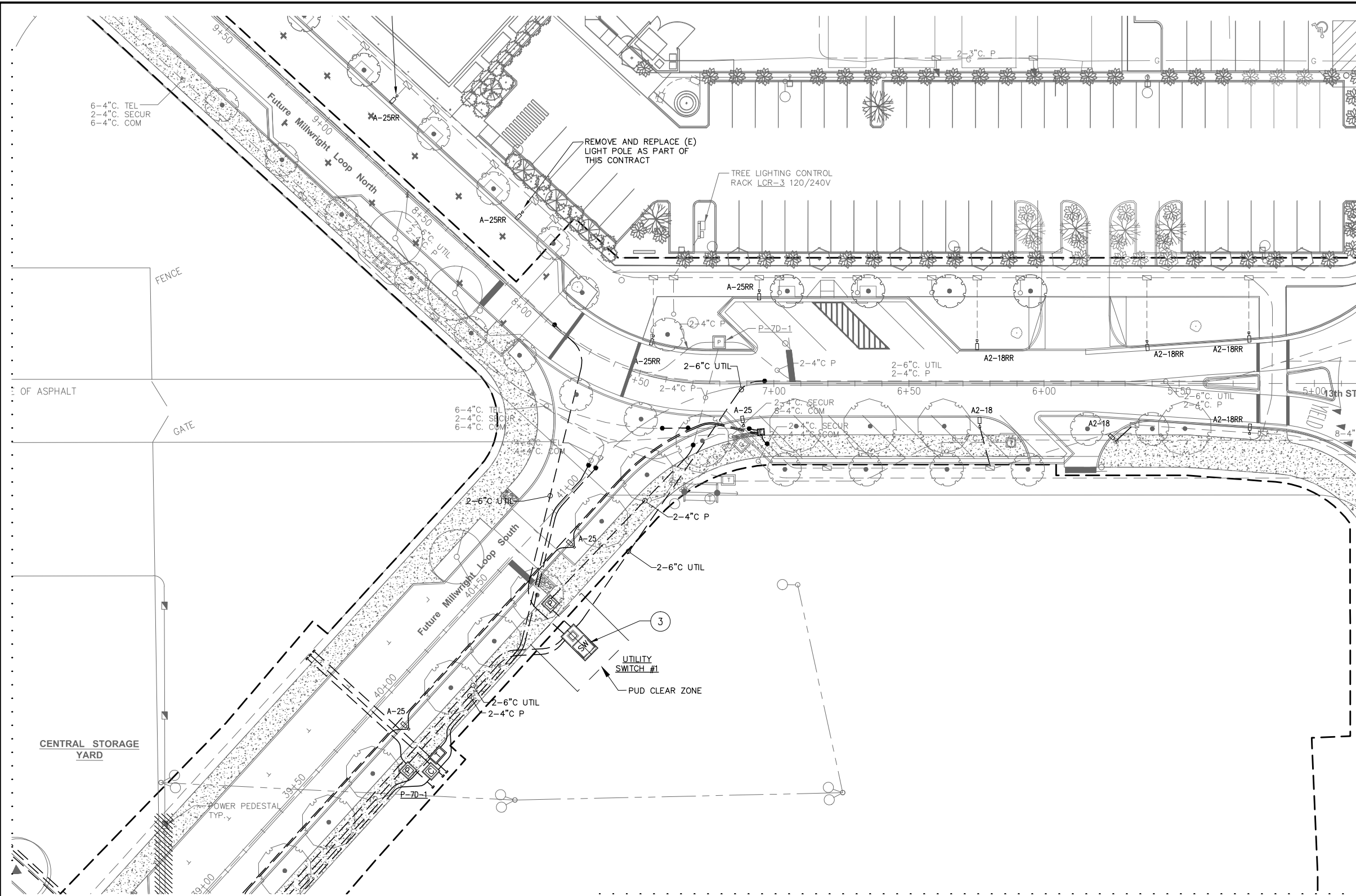
PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NOTED
DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 7C

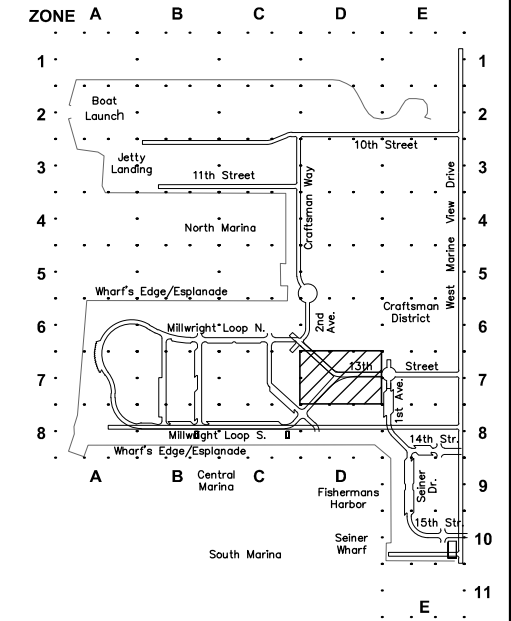
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CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



REFERENCE NOTES

1. NOT USED
2. NOT USED.
3. FUTURE LOCATION FOR PUD ELECTRICAL SWITCH.



KEY PLAN

ELECTRICAL PLAN - ZONE 7D



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

NO.	DATE	BY	REVISION

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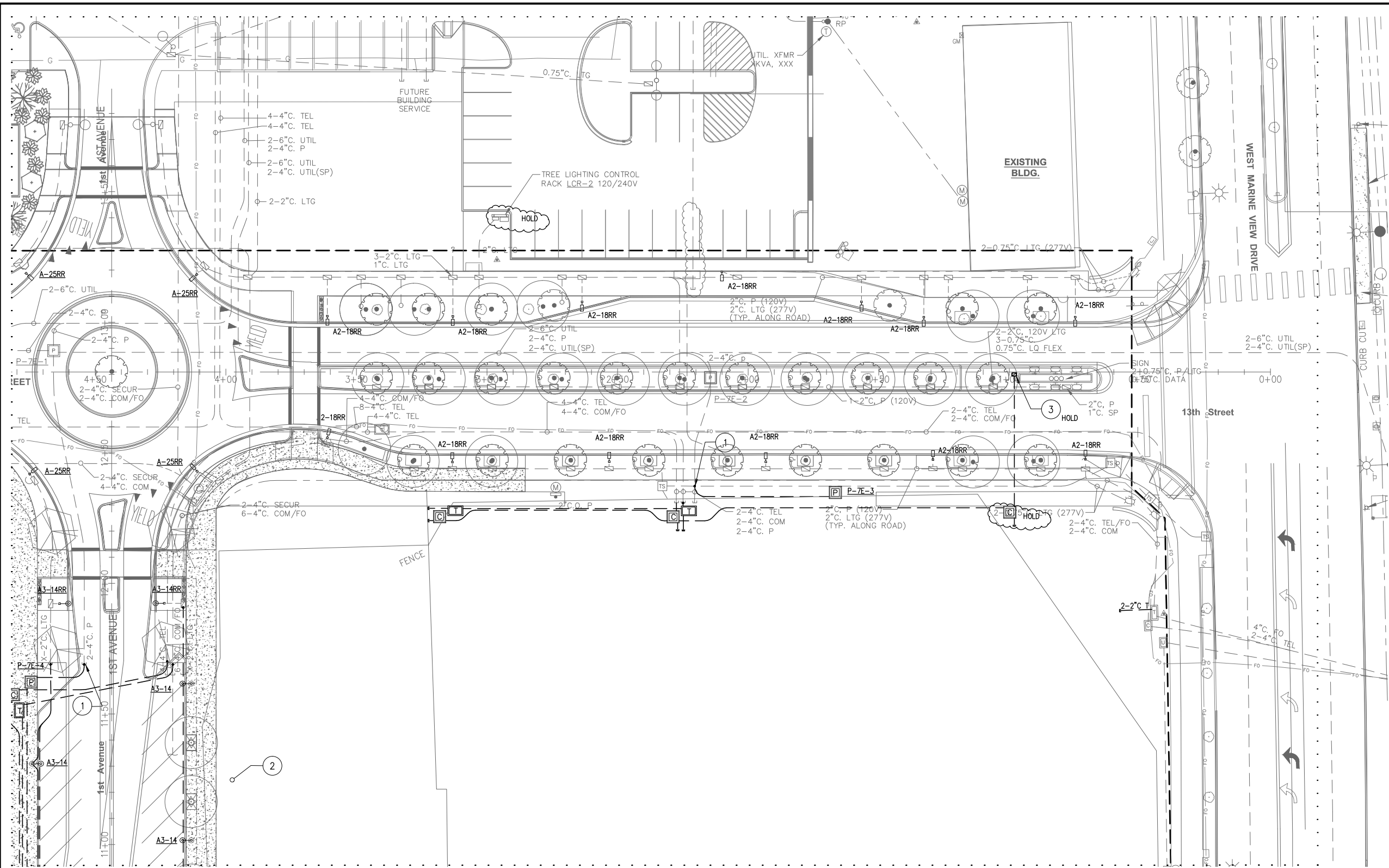
PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NOTED
DATE:
DEC. 2015
CHECKED BY:

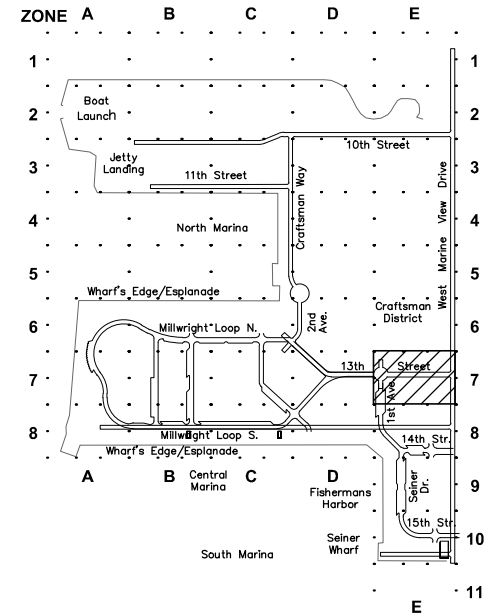
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WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 7D

DWG. NO.	E2.7D
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



- ### REFERENCE NOTES
- (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).
 - (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).
 - (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).



ELECTRICAL PLAN - ZONE 7E 0 5 10 20 40 60

90% DESIGN - NOT FOR CONSTRUCTION



NO.	DATE	BY	REVISION

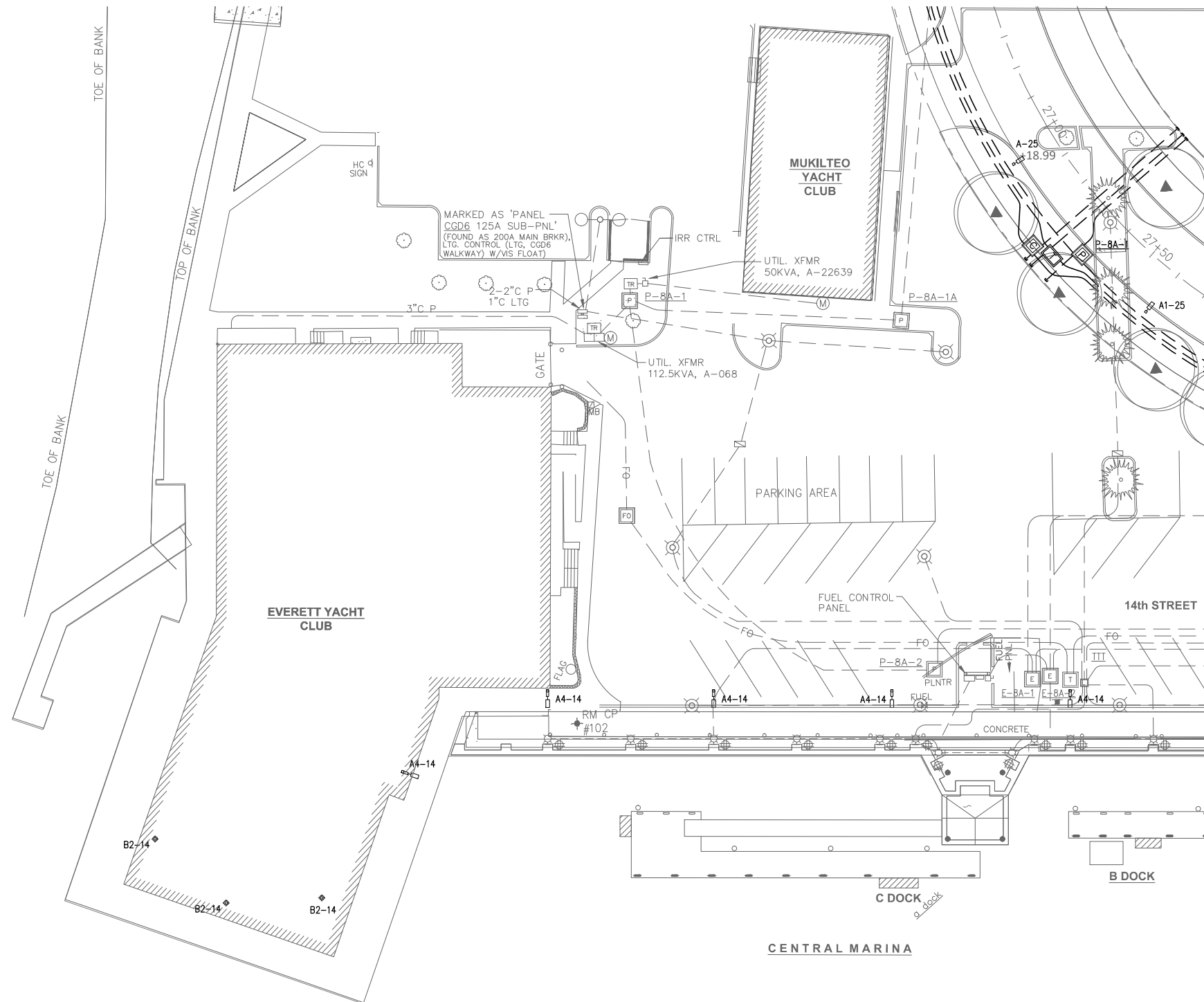
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

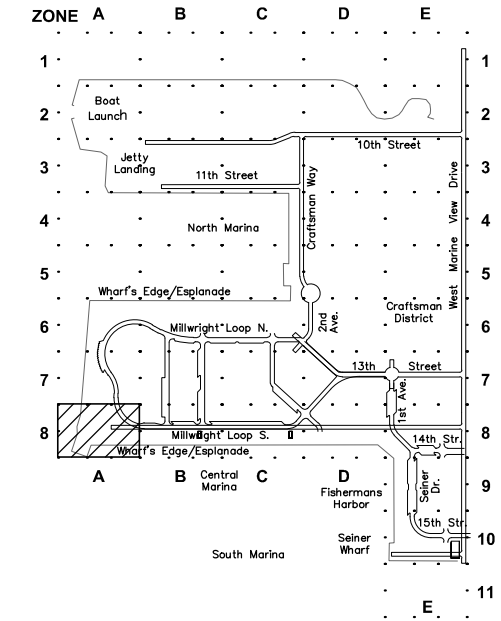
PORT OF EVERETT
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ZONE 7E

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CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



ELECTRICAL PLAN - ZONE 8A



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

NO.	DATE	BY	REVISION

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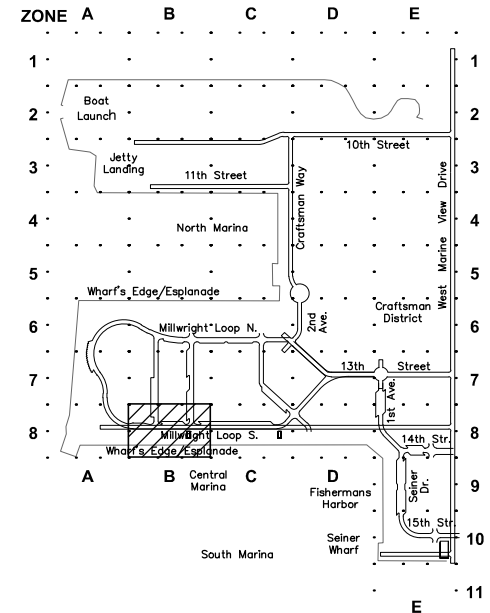
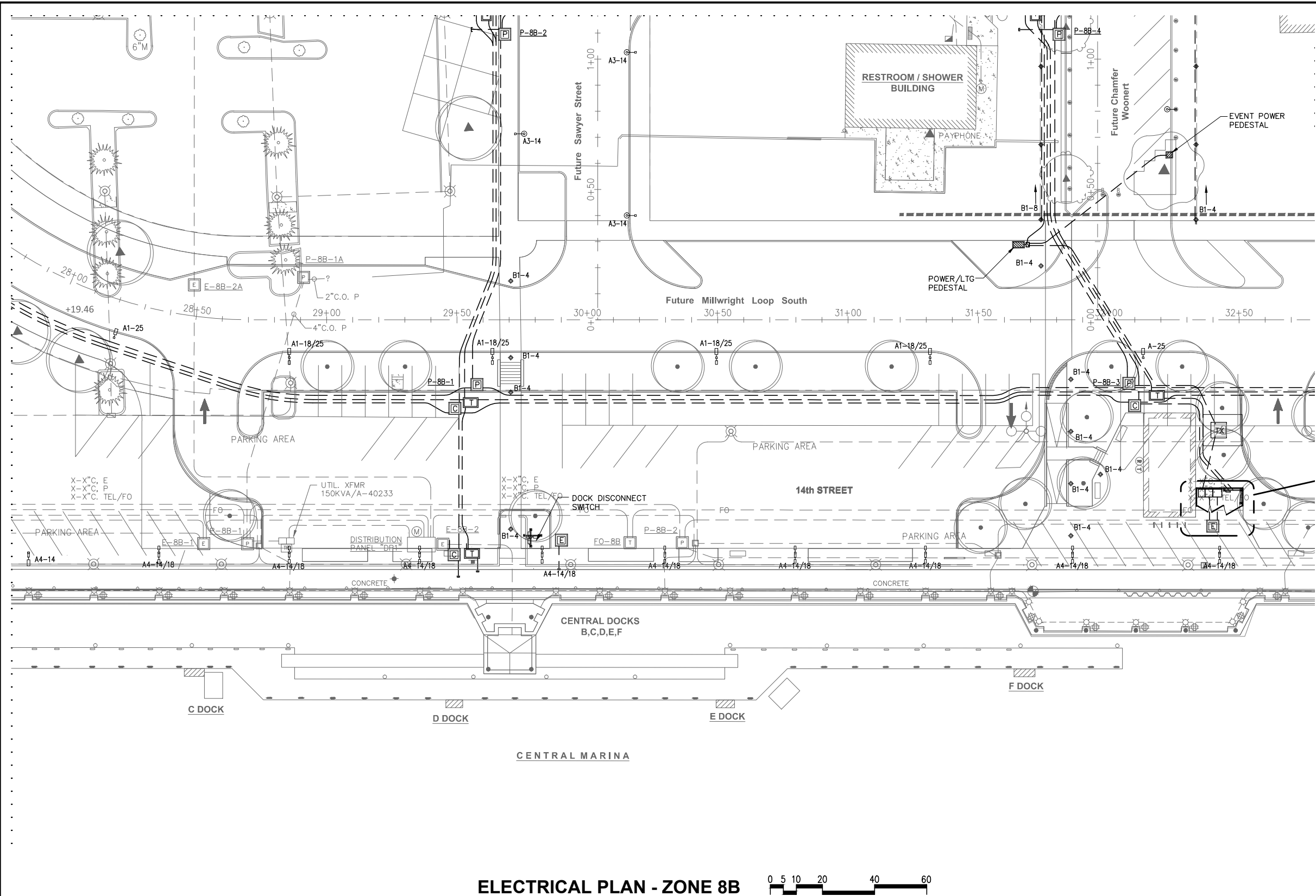
PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NOTED
DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 8A

DWG. NO.	E2.8A
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN



ELECTRICAL PLAN - ZONE 8B



90% DESIGN - NOT FOR CONSTRUCTION



NO.	DATE	BY	REVISION

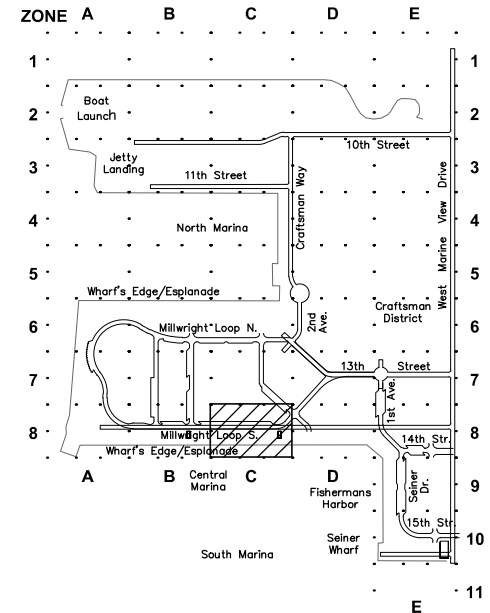
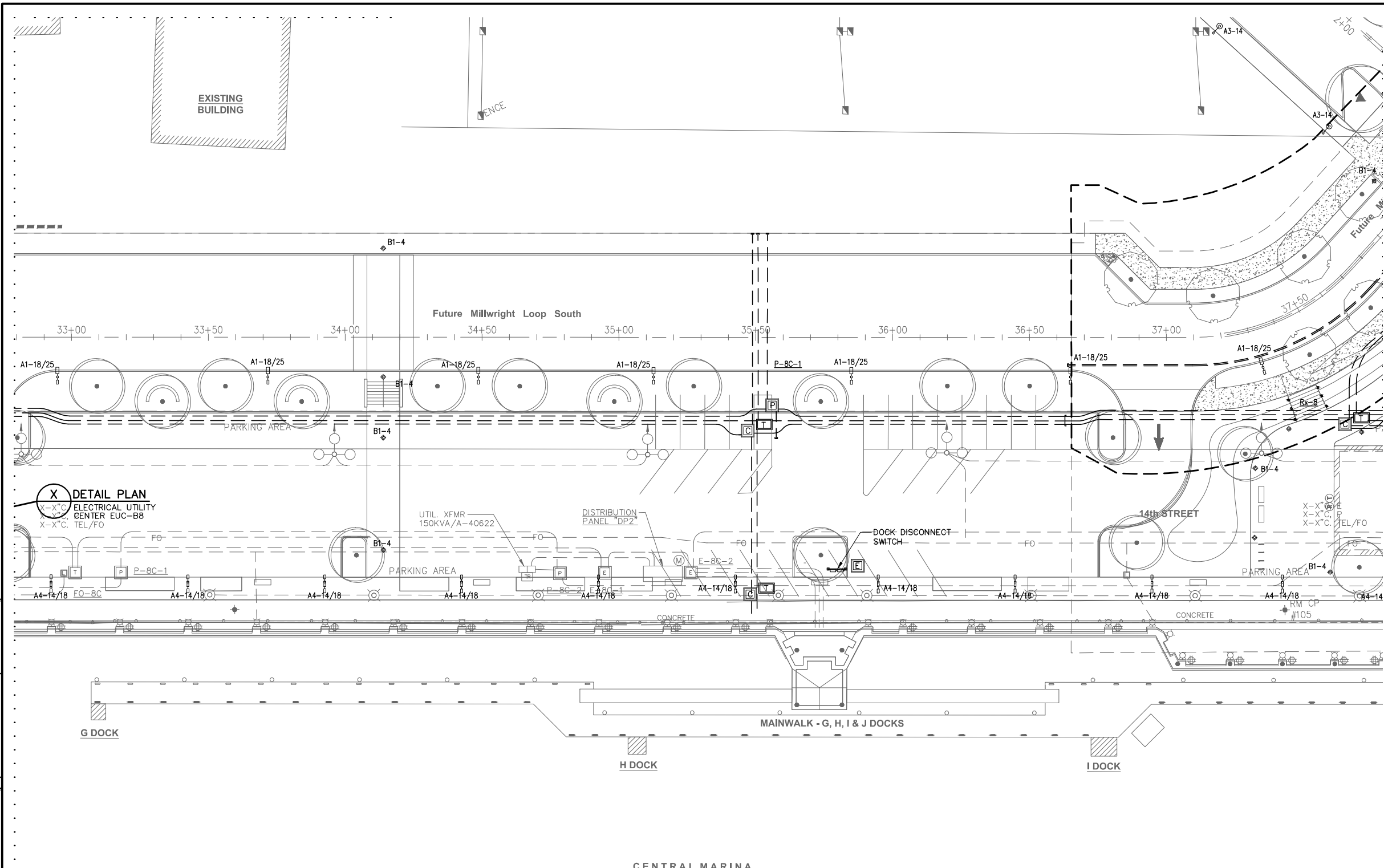
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 8B

DWG. NO. E2.8B
CIP NO. 3-8-003-01
PROJECT NO. ---
SHEET NO. OF XX

Drawings 2002\02455-12TH STREET MARINA\02455-11 Phase I Final Design\Phase I 75% Submittal\02455.11-01.dwg



KEY PLAN



ELECTRICAL PLAN - ZONE 8C



90% DESIGN - NOT FOR CONSTRUCTION

Port of Everett
P.O. BOX 538
EVERETT, WA 98206
(425) 259-3164

HARBOR POWER ENGINEERS, INC.
ELECTRICAL ENGINEERING FOR MARINA & WATERFRONT FACILITIES

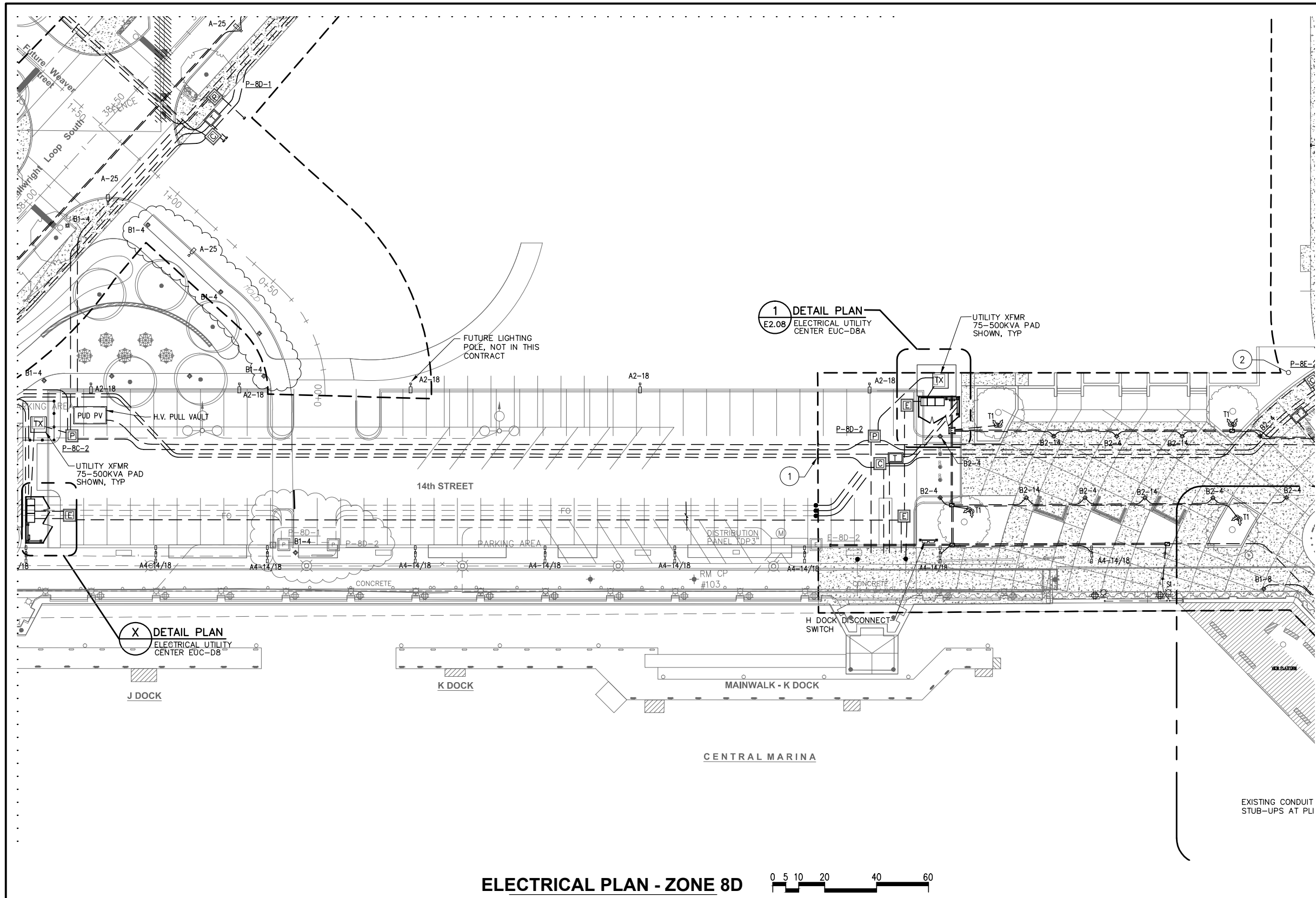
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

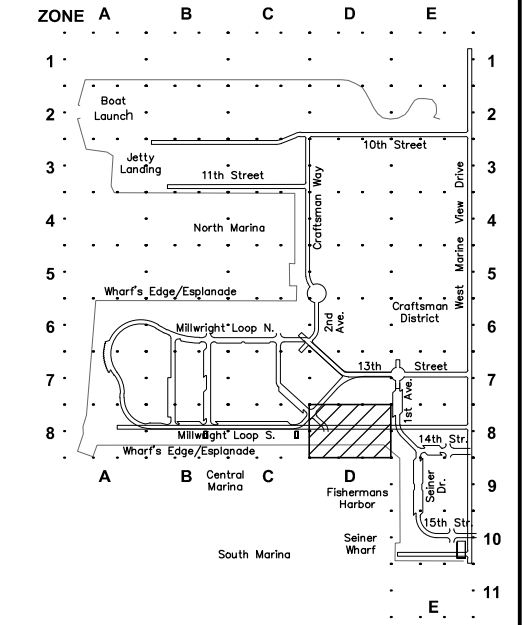
PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 8C

DWG. NO.	E2.8C
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	OF XX



REFERENCE NOTES

- (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).
- (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).



KEY PLAN



90% DESIGN - NOT FOR CONSTRUCTION



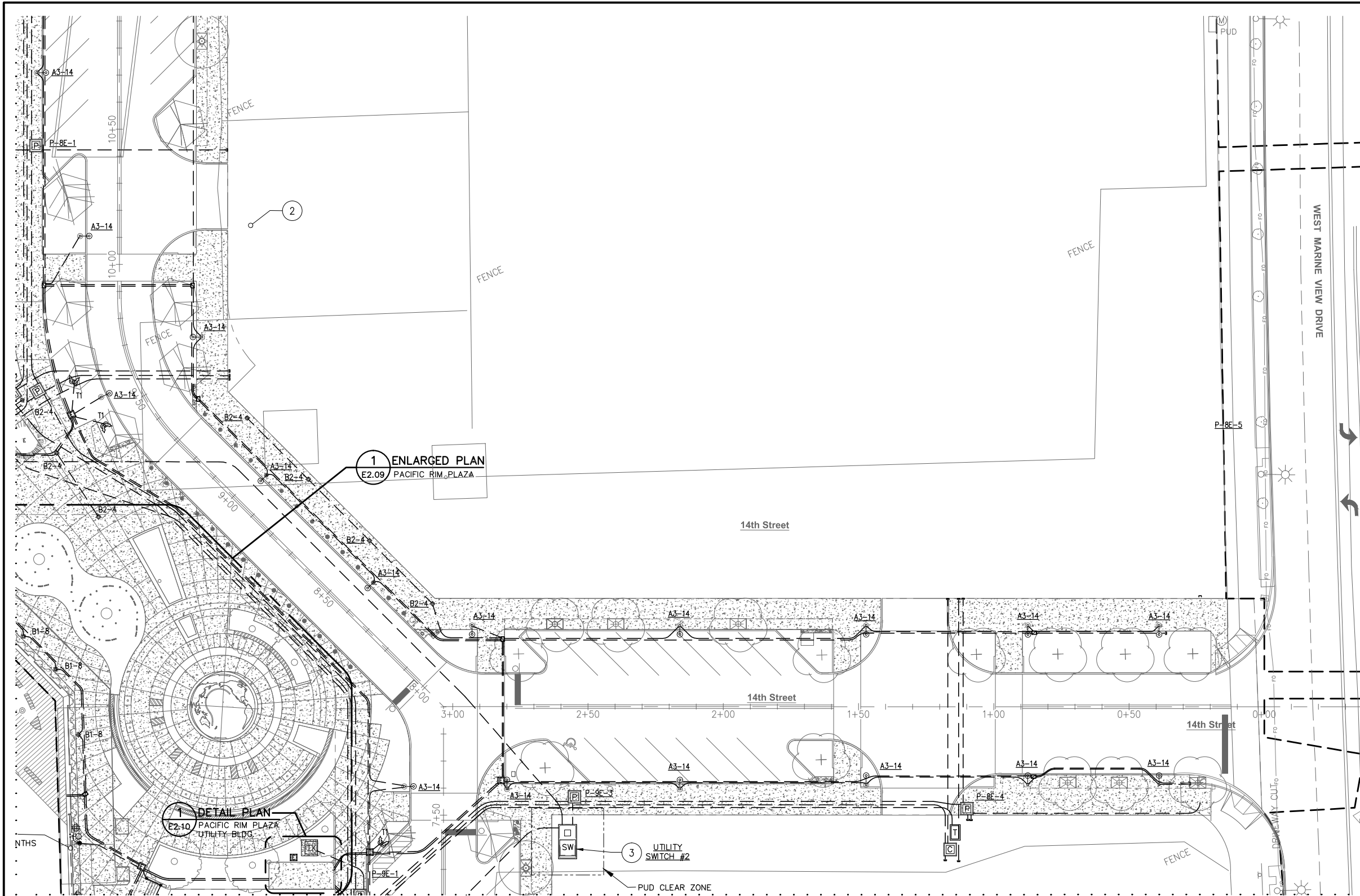
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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

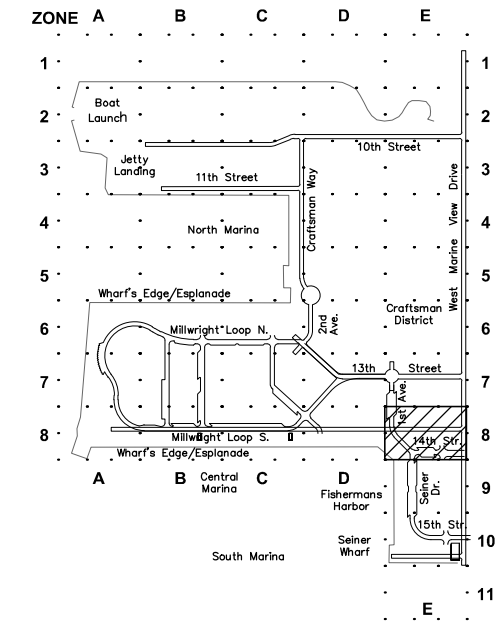
PORT OF EVERETT
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ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 8D

DWG. NO.	E2.8D
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	X OF XX



REFERENCE NOTES

1. NOT USED
2. (SEE FISHERMANS HARBOR ELECTRICAL SET FOR NOTES).
3. FUTURE LOCATION FOR PUD ELECTRICAL SWITCH.



KEY PLAN



ELECTRICAL PLAN - ZONE 8E



90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

NO.	DATE	BY	REVISION

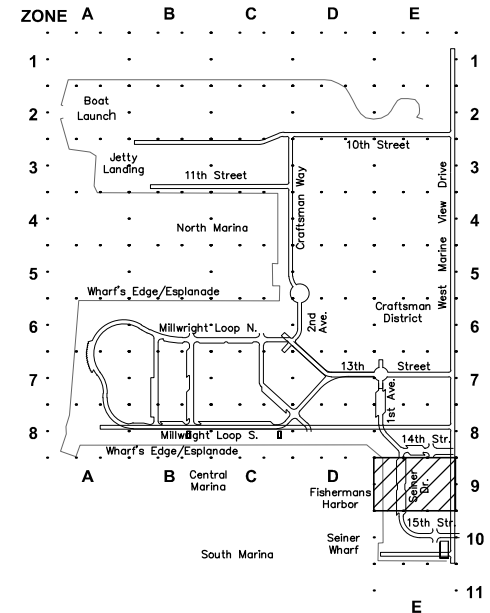
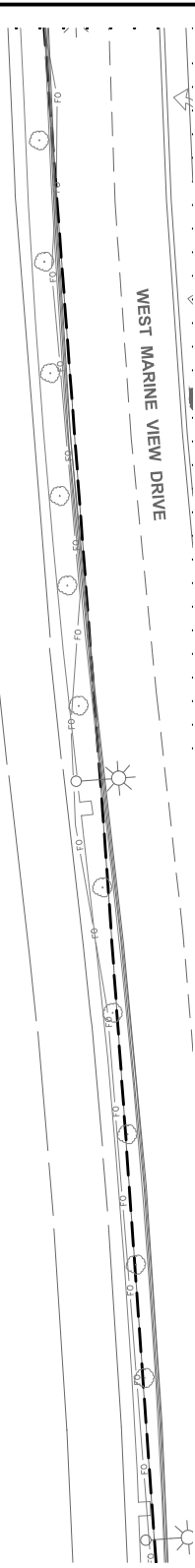
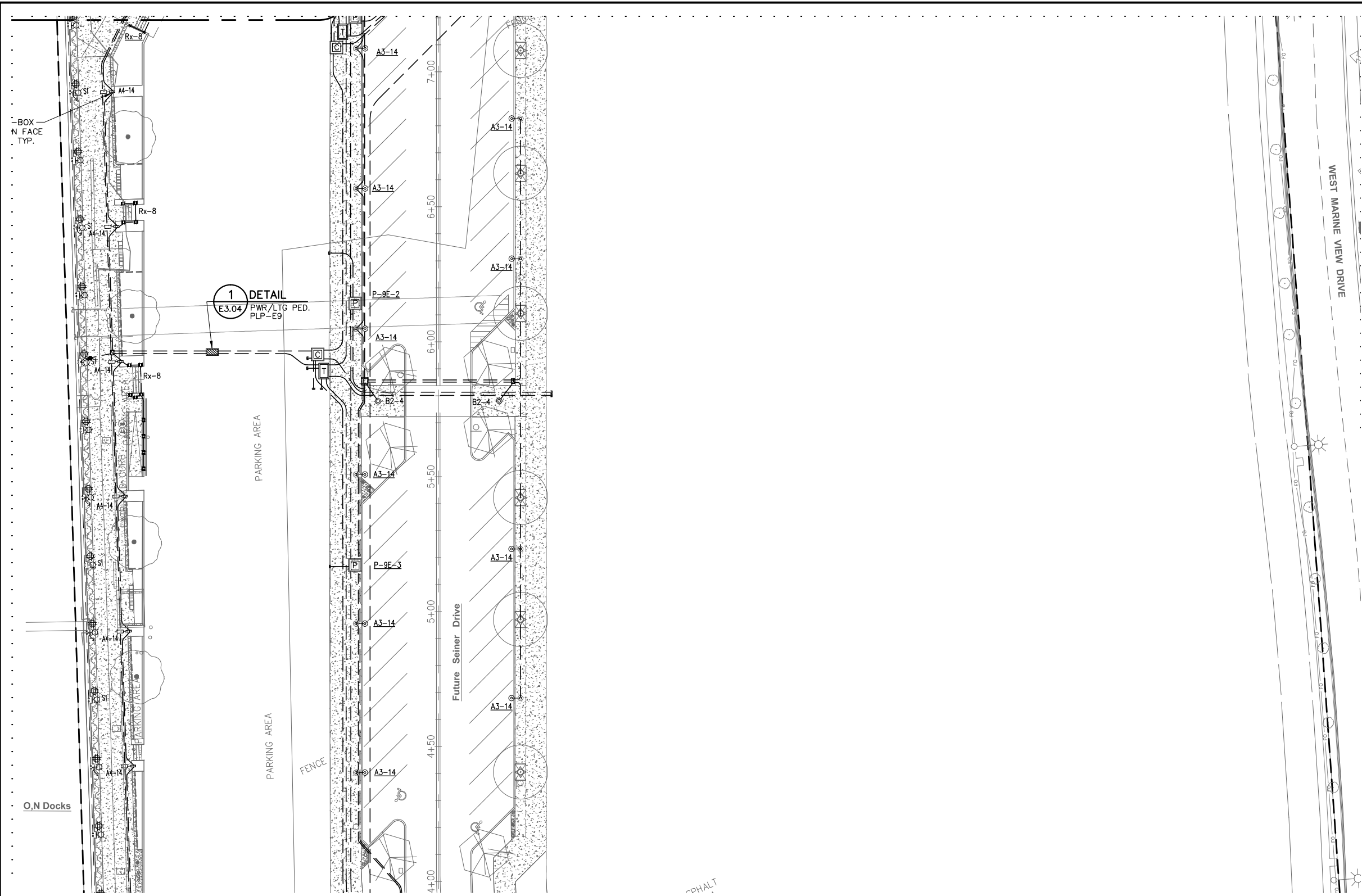
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PROJECT ENGINEER:
E. DAVID
DESIGNED BY:
EJD/JRC
DRAWN BY:
J. CAMPBELL
APPROVED BY:

SCALE:
NOTED
DATE:
DEC. 2015
CHECKED BY:

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 8E

DWG. NO.	E2.8E
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	X OF XX



KEY PLAN



ELECTRICAL PLAN - ZONE 9E 0 5 10 20 40 60

90% DESIGN - NOT FOR CONSTRUCTION



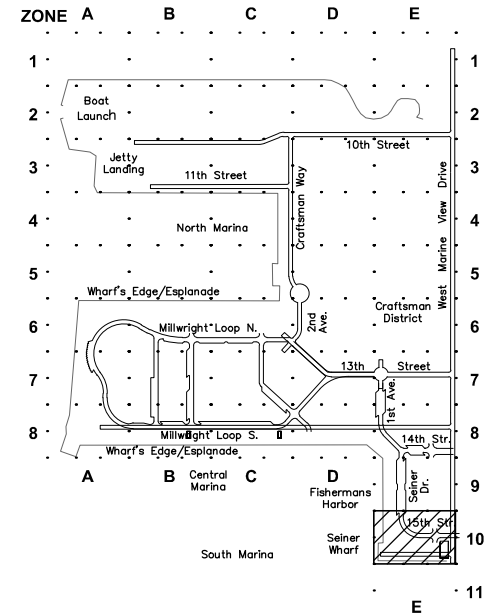
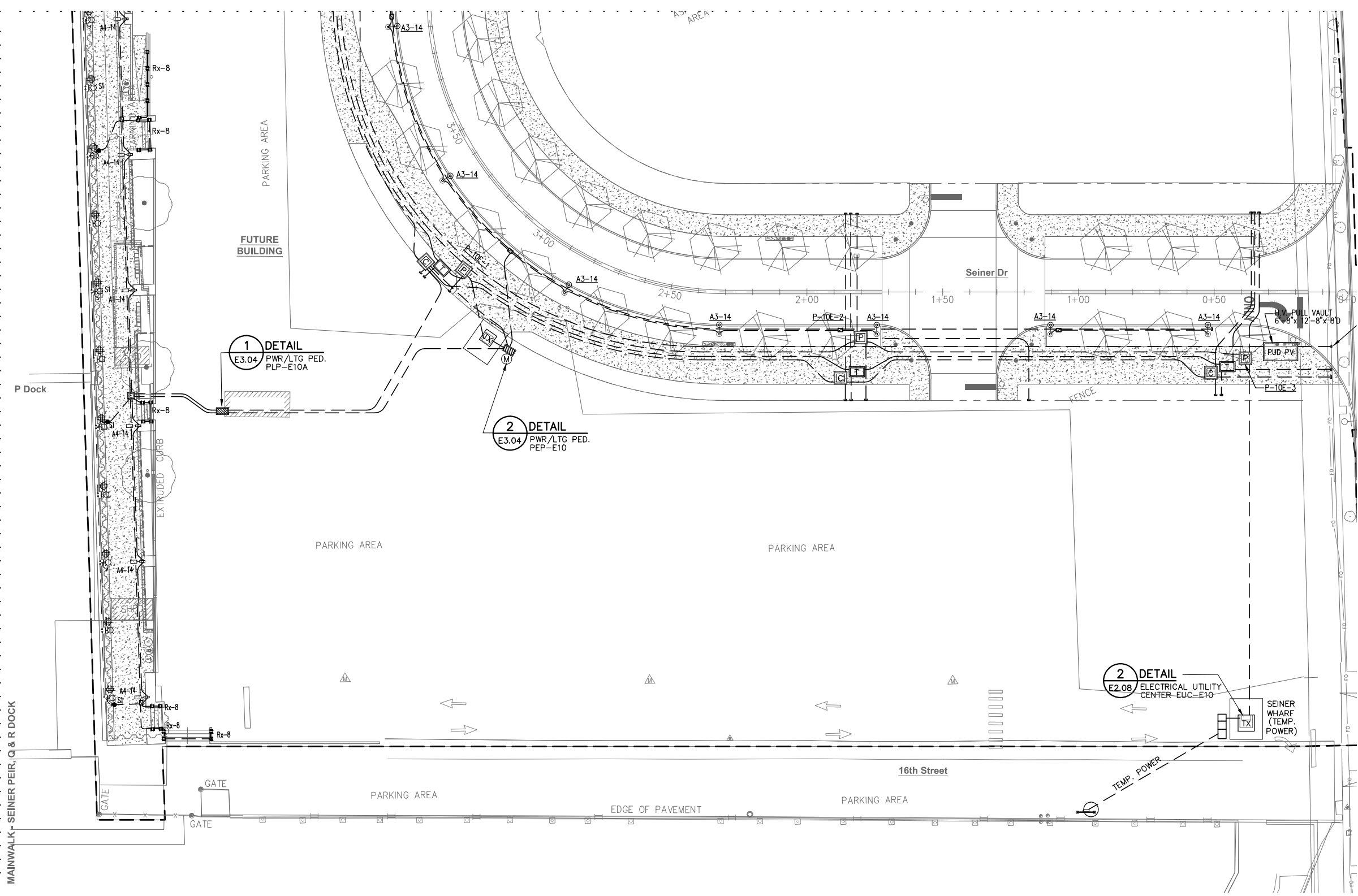
NO.	DATE	BY	REVISION

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PROJECT ENGINEER: E. DAVID	SCALE: NOTED
DESIGNED BY: EJD/JRC	DATE: DEC. 2015
DRAWN BY: J. CAMPBELL	CHECKED BY:
APPROVED BY:	

PORT OF EVERETT
WATERFRONT PLACE
ELECTRICAL INFRASTRUCTURE
ELECTRICAL PLAN
ZONE 9E

DWG. NO.	E2.9E
CIP NO.	3-8-003-01
PROJECT NO.	---
SHEET NO.	X OF XX



ELECTRICAL PLAN - ZONE 10E 0 5 10 20 40 60

90% DESIGN - NOT FOR CONSTRUCTION



HPE PROJECT NUMBER: 2015-001.05

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PROJECT ENGINEER:
E. DAVID

DESIGNED BY:
EJD/JRC

DRAWN BY:
J. CAMPBELL

APPROVED BY:

SCALE:
NOTED

DATE:
DEC. 2015

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PORT OF EVERETT

WATERFRONT PLACE

ELECTRICAL INFRASTRUCTURE

ELECTRICAL PLAN

ZONE 10E

DWG. NO. **E2.10E**

CIP NO. **3-8-003-01**

PROJECT NO. **---**

SHEET NO. **X** OF **XX**