



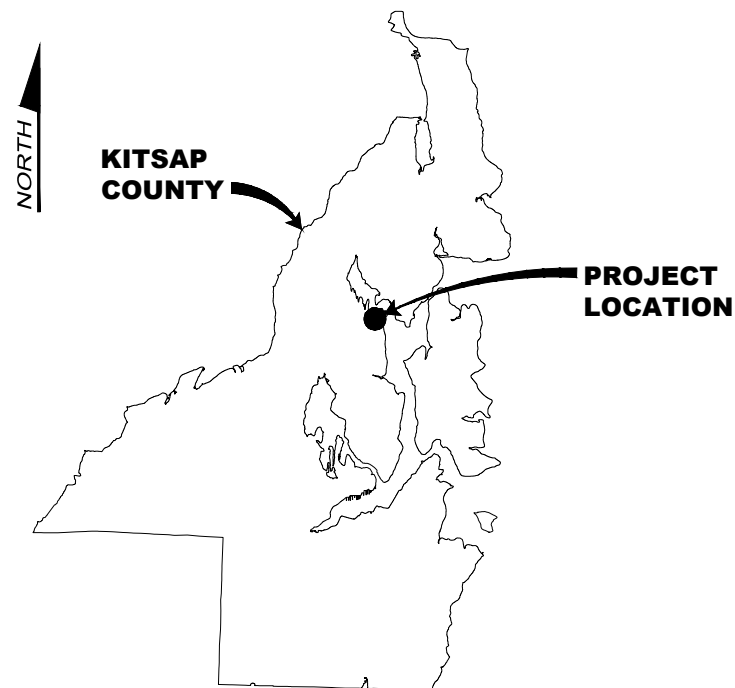
KITSAP COUNTY

PUMP STATIONS 16/67 UPGRADES

MARCH 2017 RECORD DRAWINGS

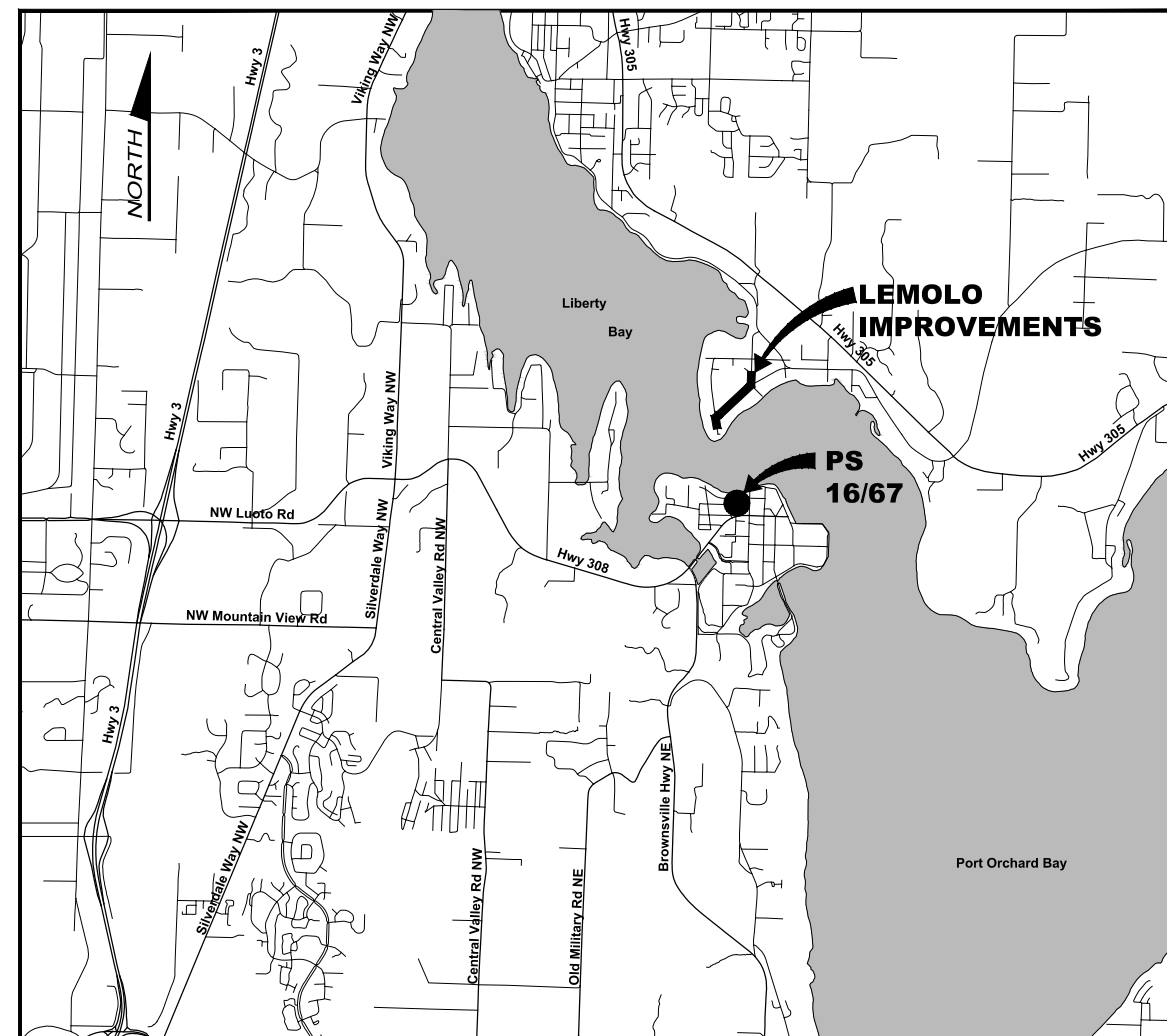
PROJECT LOCATION MAP

NTS



VICINITY MAP

NTS



COUNTY COMMISSIONERS

- Robert Gelder - District #1
- Charlotte Garrido - District #2
- Edward E. Wolfe - District #3

APPROVED BY

DATE _____ **DAVID TUCKER, P.E.**
ASSISTANT DIRECTOR OF PUBLIC WORKS

DATE _____ **JON BRAND, P.E.**
COUNTY ROAD ENGINEER

PREPARED BY



IN ASSOCIATION WITH

- Geotechnical - Aspect Consulting, LLC
- Public Outreach - Enviro Issues
- Cultural Resources - Cascadia Archaeology
- Survey - AES Consulting, Inc.

FILE NAME: (UPDATED BY) C:\WORKING\SEA\0060302\PS-10282_C-07.DWG (MAN) XREFS: X13-10282-01PS_Prelim

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FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01R1_PP-SU.DWG (R.S.)
 PLOT DATE & TIME APR 09 2013 07:13:40
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RECORD DRAWING



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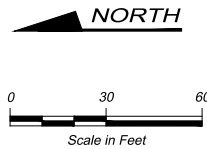
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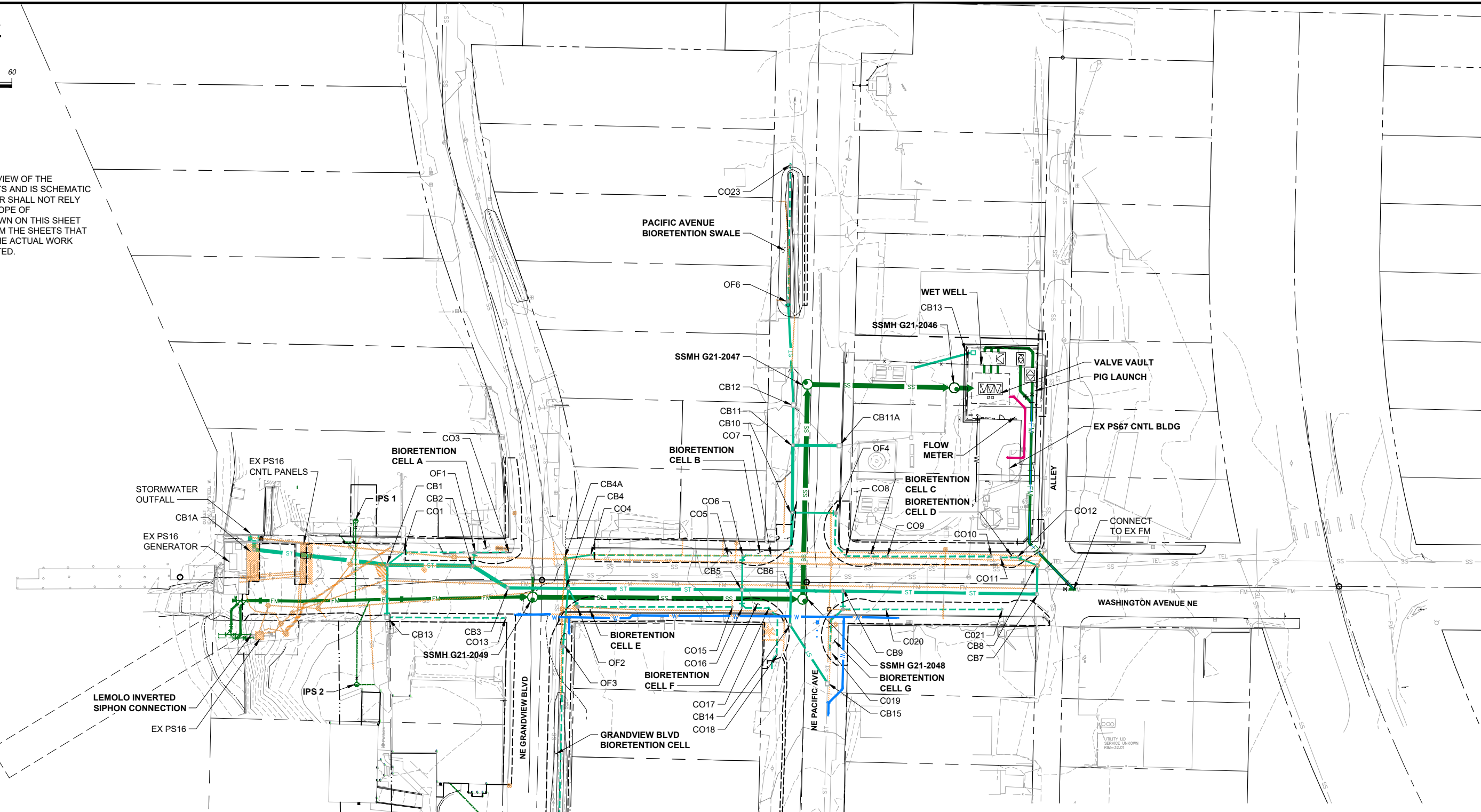
KITSAP COUNTY PS 16/67 UPGRADES
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 Sheet: **2** Of **101**
 File: 02-P13-10282_G-02
 Date: February 2017

No.	Revision	Date	By	App'd



NOTES:
 THIS SHEET IS AN OVERVIEW OF THE KEYPORT IMPROVEMENTS AND IS SCHEMATIC IN NATURE. CONTRACTOR SHALL NOT RELY UPON THE LIMITS OR SCOPE OF IMPROVEMENTS AS SHOWN ON THIS SHEET AS THEY MAY VARY FROM THE SHEETS THAT SHOW AND DESCRIBE THE ACTUAL WORK THAT MUST BE COMPLETED.



- LEGEND**
- FM NEW FORCE MAIN
 - SS NEW GRAVITY SEWER
 - ST NEW STORM DRAIN
 - ST NEW STORM DRAIN
 - W NEW WATER (KPUD)
 - ODOR CONTROL
 - TO BE REMOVED OR ABANDONED
 - SS EX SEWER TO REMAIN
 - ST EX STORM DRAIN TO REMAIN
 - PERMEABLE PAVERS
 - IMPERMEABLE PAVERS
 - BIORETENTION CELLS / SWALE
 - SIDEWALK IMPROVEMENTS

RECORD DRAWING

Call 48 Hours Before You Dig
 1-800-424-5555
 UNDERGROUND SERVICE

No.	Revision	Date	By	App'd

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Scale: As Shown
 One Inch At Full Scale
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Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
PROJECT OVERVIEW

Drawing: **G-03**
 Sheet: **3** Of **101**
 File: 03-P13-10282_G-03
 Date: February 2017

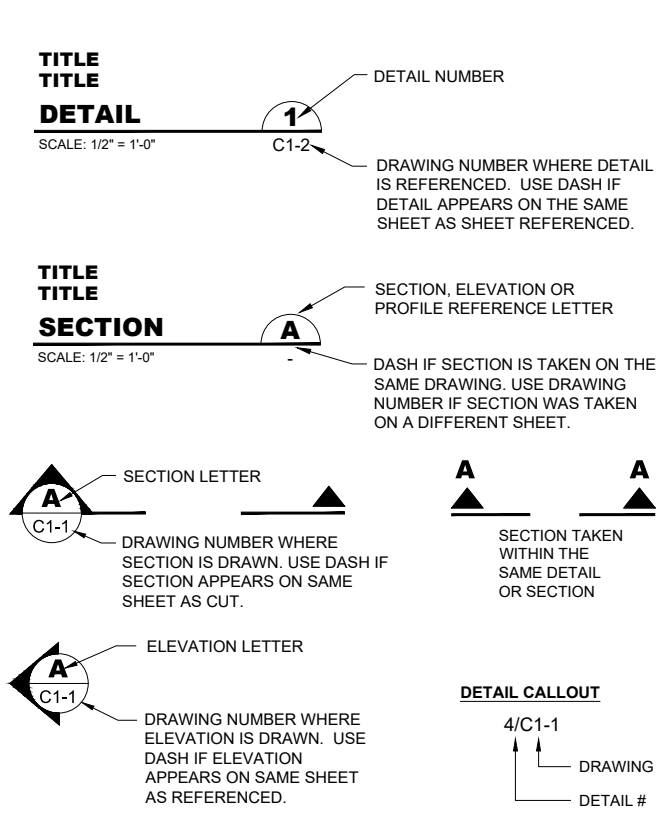
LEGEND:

EXISTING	PROPOSED
RIGHT OF WAY	TEMPORARY CONSTRUCTION EASEMENT
CENTERLINE	PERMANENT CONSTRUCTION EASEMENT
PROPERTY LINE	CLEARING LIMIT/WORK ZONE DELINEATION FENCE
EASEMENT	WATER MAIN
MEAN HIGH HIGH WATER	FORCE MAIN
PROFILE EXISTING GRADE AT C/L	GRAVITY SEWER
CONTOUR	STORM DRAIN
	UNDERDRAIN
SANITARY SEWER MANHOLE	ODOR CONTROL PIPE
SANITARY SEWER CLEAN OUT	WATER SERVICE
SANITARY SEWER VALVE	CASING
STORM DRAINAGE MANHOLE	SANITARY SEWER MANHOLE OR STRUCTURE
CATCH BASIN	WOOD FENCE
FIRE HYDRANT	SLOPE (PROFILE)
WATER VALVE	DIRECTION OF FLOW (PLAN)
WATER METER	SIGN LOCATION
WATER BLOWOFF	CHANNELIZING DEVICES
GAS METER	PROTECTIVE VEHICLE - RECOMMENDED
POTHOLE LOCATION W/ NUMBER	PORTABLE CHANGEABLE MESSAGE SIGN
POWER MANHOLE	ARROW PANEL
POWER VAULT	ASPHALT CONCRETE PAVEMENT (ACP) - PLAN
ELECTRICAL SERVICE	ASPHALT CONCRETE PAVEMENT (ACP) - SECTION
TRAFFIC SIGNAL CONTROLLER	GRAVEL ROAD SURFACE RESTORATION TYPE 3
TELEPHONE RISER	CONCRETE
UTILITY POLE	PRE-CAST CONCRETE
POLE ANCHOR	GROUT OR SAND
MAILBOX	CDF
SIGN	FOUNDATION GRAVEL, DRAIN ROCK
TREES	PIPE BEDDING, PEA GRAVEL
TREE OR BRUSH LINE	CSTC
SS SANITARY SEWER (GRAVITY)	CSBC
FM FORCE MAIN	COMMON BORROW
ST STORM DRAIN	SELECT BEDDING
G GAS LINE	UNDISTURBED NATIVE
OHP OVERHEAD POWER	PERMEABLE PAVER
P UNDERGROUND POWER	ASPHALT THICKENED EDGE
BP BURIED POWER	PAVER TYPE 1
TEL UNDERGROUND TELEPHONE	PAVER TYPE 2
WOOD FENCE	FULL DEPTH ASPHALT
SURVEY CONTROL POINT	TEMPORARY ASPHALT BERM
1/2" "MAG" BRAND CONC NAIL	BIORETENTION FACILITY
TAX ACCOUNT NUMBER	BIORETENTION OR PLANTER
EX ASPHALT CONCRETE PAVEMENT (ACP) - PLAN	SOD
	FILTER FABRIC ROLL
	FILTER FABRIC FENCE
	SAND BAGS
	SEWER MANHOLE
	CB TYPE 1
	CB TYPE 2
	OF STRUCTURE
	CO
	VALVE BOX

DEMOLITION

	TO BE REMOVED OR ABANDONED
	EXISTING TREE(S) OR LANDSCAPING TO BE REMOVED
	CLEARING AND GRUBBING
	REMOVE PAVEMENT

SYMBOLS AND DESIGNATIONS



PIPING DESIGNATIONS

PIPING IS IDENTIFIED BY ITS SIZE FOLLOWED BY PIPING SYSTEM AS FOLLOWS:

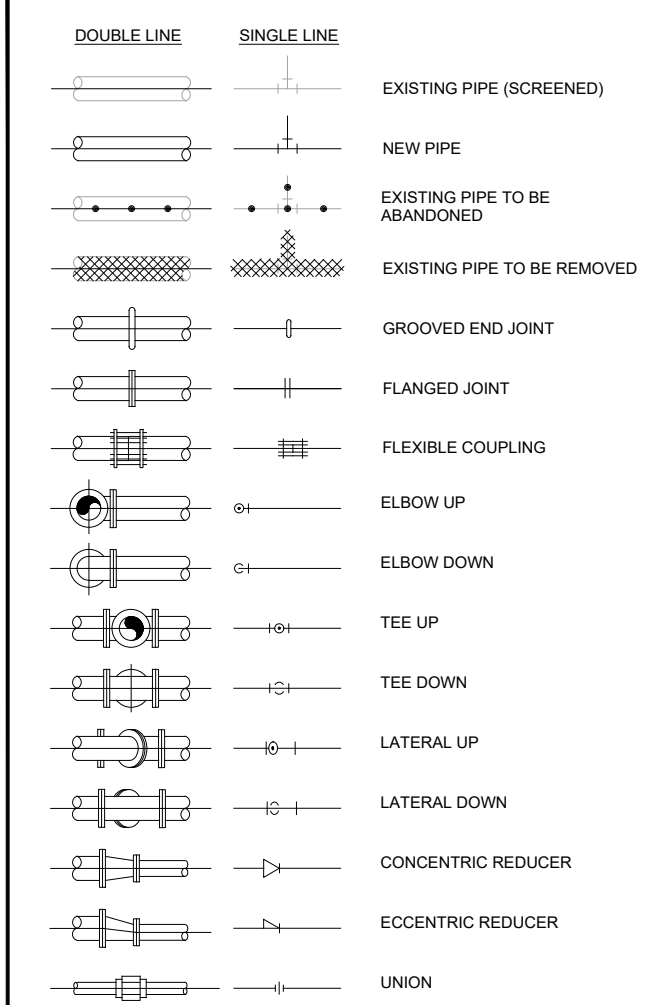
CIRCLED NUMBER DESIGNATES NEW PIPING: 8" SSFM

UN-CIRCLED NUMBER DESIGNATES EXISTING PIPING: 8" SSFM

FOR NEW PIPING MATERIAL, FITTINGS, AND VALVES, SEE SPECIFICATIONS.

PIPING SYSTEM DESIGNATIONS FOR EXISTING PIPING INDICATE TYPE OF SERVICE AND DO NOT IMPLY PIPE MATERIAL USED, UNO.

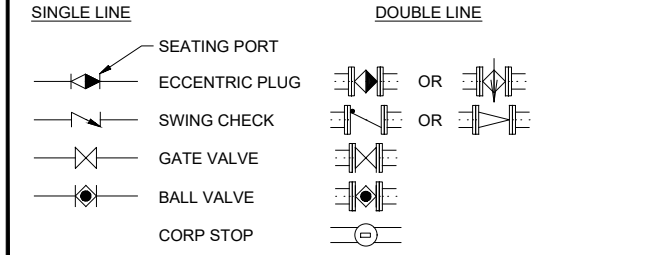
MECHANICAL PIPE AND FITTING SYMBOLS



NOTES:

- ONLY FLANGED FITTINGS ARE SHOWN FOR DOUBLE LINE PIPING. FITTINGS WITH OTHER END PATTERNS ARE SIMILAR.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN LIGHT LINED AND/OR SCREENED AND ARE NOTED AS EXISTING. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.

VALVE SYMBOLS



DRAWING REFERENCE

G	GENERAL
D	DEMOLITION
C	CIVIL
L	LANDSCAPING
S	STRUCTURAL
M	MECHANICAL
E	ELECTRICAL
Y	INSTRUMENTATION

RECORD DRAWING

FILE NAME: (UPDATED BY) C:\P\WORKING\SEA\00650302\04-P13-10282_G-04.DWG (PLS) XREFS: Fisher, Kitsap, TB
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One Inch At Full Scale
If Not One Inch Scale Accordingly

Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES

LEGEND AND SYMBOLS

Drawing: **G-04**
Sheet: **4** Of **101**
File: 04-P13-10282_G-04
Date: February 2017

ABBREVIATIONS

AASHTO	AMERICAN ASSOC. OF STATE HIGHWAY TRANSPORTATION OFFICIALS	EG	EXHAUST GRILLE	N	NEUTRAL, NORTH	T&B	TOP AND BOTTOM
AB	ANCHOR BOLT	EJ	EXPANSION JOINT	N/A	NOT APPLICABLE	TBM	TEMPORARY BENCHMARK
AC	ASPHALT CONCRETE	EL, ELEV	ELEVATION, ELBOW	NE	NORTHEAST	TCE	TEMPORARY CONSTRUCTION EASEMENT
ACHCH	ACCESS HATCH	EP	EDGE OF PAVEMENT	NEG	NEGATIVE	TCP	TEMPORARY CONTROL PANEL
ACI	AMERICAN CONCRETE INSTITUTE	EQ	EQUAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	TEL	TELEPHONE
ACP	ASPHALT CONCRETE PAVEMENT	EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT	TELJB	TELEPHONE JUNCTION BOX
ADS	POLYETHYLENE PIPE	EX	EXISTING	NO.	NUMBER	TELR	TELEPHONE RISER
AHU	AIR HANDLING UNIT	EXH	EXHAUST	NOM	NOMINAL	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXT	EXTERIOR	NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM	TEMP	TEMPORARY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	EW	EACH WAY	NPT	NATIONAL PIPE THREAD	THRU	THROUGH
ALD	ALDER	FA	FLANGE ADAPTER, FOUL AIR	NS	NEAR SIDE	TOC	TOP OF CONCRETE
AL	ALUMINUM	FAB	FABRICATION	NTS	NOT TO SCALE	TOF	TOP OF FOOTING
ALT	ALTERNATE	FB	FLAT BAR	NW	NORTHWEST	TOG	TOP OF GRATE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	FC	FLEXIBLE COUPLING	OC	ON CENTER	TOM	TOP OF MASONRY
APPROX	APPROXIMATE	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER	TOS	TOP OF STEEL, TOP OF SLAB
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	FF	FINISHED FLOOR	OF	OVERFLOW, OUTSIDE FACE	TOW	TOP OF WALL
AS	AIR SUPPLY	FG	FINISH GRADE	OH	OVERHEAD	TPI	TRUSS PLATE INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FIN	FINISH	OP	ORDINARY HIGH WATER	TRANS	TRANSVERSE
AVE	AVENUE	FL	FLANGE, FLOW LINE	OPG	OVERHEAD POWER OPENING	TV	TELEVISION (CABLE)
AWS	AMERICAN WELDING SOCIETY	FLR	FLOOR	P	POWER, PUMP	TVJB	TELEVISION (CABLE) JUNCTION BOX
BF	BLIND FLANGE	FM	FORCE MAIN	PC	PRECAST	TVR	TELEVISION (CABLE) RISER
BH	BORE HOLE	FMCO	FORCE MAIN CLEANOUT	PCF	POUNDS PER CUBIC FOOT	TW	TOP OF WALL
BLDG	BUILDING	FRP	FIBER REINFORCED PLASTIC	PE	PERMANENT EASEMENT, PLAIN END	TYP	TYPICAL
BM	BENCH MARK, BEAM	FS	FAR SIDE	PERF	PERFORATED	UBC	UNIFORM BUILDING CODE
BO	BLOW-OFF	FSL	FLOW SWITCH	PG	PERFORMANCE GRADE	UD	UNDERDRAIN
BOT	BOTTOM	FT or '	FOOT or FEET	PH	POT HOLE	UGP	UNDERGROUND POWER
BP	BASE PLATE	FTG	FOOTING	PJF	PREFORMED JOINT FILLER	UN	UNION
BR	BRICK	G	GAS	PL	PLATE	U.N.O.	UNLESS NOTED OTHERWISE
BRG	BEARING	GA	GAGE	PSI	POUNDS PER SQUARE INCH	V	VENT, VERTICAL, VOLTS
BW	BOTTOM OF WALL	GAL	GALLON	PSE	PUGET SOUND ENERGY	VAR	VARIES
CB	CATCH BASIN, CORNER BAR	GALV	GALVANIZED	PSF	POUNDS PER SQUARE FOOT	VERT	VERTICAL
CC	CENTER TO CENTER	GLULAM	GLUE LAMINATED BEAM	PSL	PIPE SLEEVE	VPC	VERTICAL POINT OF CURVATURE
CDF	CONTROLLED DENSITY FILL	GP	GUARD POST	PV	PLUG VALVE	VPI	VERTICAL POINT OF INTERSECTION
CF	CLEARING LIMIT FENCE, CUBIC FEET	GRAV	GRAVEL	PVMT	POLYVINYL CHLORIDE PAVEMENT	VPT	VERTICAL POINT OF TANGENCY
CFS	COLD FORMED STEEL	GSKT	GASKET	PWR	POWER	W	WATER, WEST, WIDE
CH	CHANNEL	GV	GATE VALVE	R	RADIUS	W/	WITH
CHLK	CHAIN LINK	HB	HOSE BIBB	RC	REINFORCED CONCRETE	WAC	WASHINGTON ADMINISTRATIVE CODE
CIP	CAST IN PLACE	HMA	HOT MIX ASPHALT	RCP	REINFORCED CONCRETE PIPE	WF	WIDE FLANGE
CJ	CONSTRUCTION JOINT	HORIZ	HORIZONTAL	RD	ROAD	WHS	WELDED HEADED STUD
C/L, CL	CENTERLINE	HP	HORSEPOWER	RED	REDUCER	WL	WATER LEVEL
CLR	CLEAR	HT	HUB AND TACK, HEIGHT	REIN	REINFORCEMENT	WM	WATER METER
CLS	CLASS	HYD	HYDRANT, HYDRAULIC	REQ'D	REQUIRED	W/O	WITHOUT
CLSM	CONTROLLED LOW STRENGTH MATERIAL	ID	INSIDE DIAMETER	RET	RETAINING	WP	WORK POINT
CM	CONSTRUCTION MANAGER	IE	INVERT ELEVATION	RH	RIGHT HAND	WS	WATER SERVICE
CMP	CORRUGATED METAL PIPE	IF	INSIDE FACE	RO	ROUGH OPENING	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
CMU	CONCRETE MASONRY UNIT	IN or "	INCH	ROW, R/W	RIGHT OF WAY	WSTP	WATER STOP
CNGC	CASCADE NATURAL GAS COMPANY	IPS	IRON PIPE SIZE, INDIVIDUAL GRINDER PUMP SYSTEM	RRC	RED REBAR AND CAP	WWR	WELDED WIRE REINFORCEMENT
CNR	CORNER	IPFSM	INDIVIDUAL PUMP STATION FORCE MAIN	RT	RIGHT	YD	YARD DRAIN, YARDS
CO	CLEANOUT	JB	JUNCTION BOX	S	SLOPE, SOUTH	&	AND
COL	COLUMN	JCT	JUNCTION	SCH	SCHEDULE	@	AT
CONN	CONNECTION	JST	JOIST	SDMH	STORM DRAIN MANHOLE	Ø	DIAMETER, PHASE
CONT	CONTINUOUS	JT	JOINT	SDR	STANDARD DIMENSION RATIO	=	EQUAL
CONC	CONCRETE	K	KIP (1,000 POUNDS)	SE	SOUTHEAST	#	NUMBER, POUNDS
CPEP	CORRUGATED POLYETHYLENE PIPE	KPUD	KITSAP PUBLIC UTILITY DISTRICT	SERV	SERVICE	%	PERCENT
CPLG	COUPLING	KVA	KILOVOLT AMPERE	SF	SILT FENCE, SQUARE FOOT	+	PLUS
CSBC	CRUSHED SURFACING BASE COURSE	KW	KILOWATT	SL	SLOPE		
CSTC	CRUSHED SURFACING TOP COURSE	L	LENGTH, ANGLE	SOG	SLAB ON GRADE		
CULV	CULVERT	LBS	POUNDS	SP	SPACE		
CV	CONTROL VALVE, CHECK VALVE	LF	LINEAR FEET	SPG	SPACING		
D	DEPTH, DOUBLE, DRAIN	LH	LEFT HAND	SPL	SPLICE		
DBA	DEFORMED BAR ANCHOR	LLV	LONG LEG VERTICAL	SQ	SQUARE		
DBH	DIAMETER BREST HEIGHT	LN	LANE	SQ IN	SQUARE INCH		
DEG or °	DEGREES	LONGIT	LONGITUDINAL	SS	SANITARY SEWER		
DET	DETAIL	LTG	LIGHTING	SSFM	SANITARY SEWER FORCE MIN		
DI	DUCTILE IRON	LV	LOW VOLTAGE	SSMH	SANITARY SEWER MANHOLE		
DIA	DIAMETER	MAP	MAPLE	SST	STAINLESS STEEL		
DIPS	DUCTILE IRON PIPE SIZE	MAT'L	MATERIAL	ST	STREET, STORM		
DOE	WASHINGTON STATE DEPARTMENT OF ECOLOGY	MAX	MAXIMUM	STA	STATION		
DR	DRAIN ROCK, DOOR, DRIVE	MB	MAIL BOX	STD	STANDARD		
DTREE	DECIDUOUS TREE	MDD	MAXIMUM DRY DENSITY	STIR	STIRRUP		
D/W	DRIVEWAY	MECH	MECHANICAL	STL	STEEL		
DWG	DRAWING	MFR	MANUFACTURER	STR	STRUCTURAL		
E	EAST, ELECTRICAL	MH	MANHOLE	SW	SOUTHWEST		
EA	EACH, EXHAUST AIR	MHHW	MEAN HIGHER HIGH WATER	SWPPP	STORM WATER POLLUTION PREVENTION PLAN		
EF	EACH FACE, EXHAUST FAN	MIN	MINIMUM				
ELEC	ELECTRICAL	MISC	MISCELLANEOUS				
EMBED	EMBEDMENT	MJ	MECHANICAL JOINT				
ES	EACH SIDE	MO	MASONRY OPENING				
		MON	MONUMENT				
		MTL	METAL				
		MTR	MOTOR				
		MW	MONITORING WELL				

FILE NAME (UPDATED BY) C:\P\WORKING\SEA\00950302_G05-P13-10282_G-06.DWG (G06) APR 23 2016 09:28:10
 XREFS: Disclaimer, Fisher, Kitsap, IB, X13-10282-QIFS_Prelim

RECORD DRAWING



Designed: T. Fisher, P.E.
 Drawn: P. Simon
 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.

Scale: N/A
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
ABBREVIATIONS

Drawing: **G-06**
 Sheet: **5** Of **101**
 File: 05-P13-10282_G-06
 Date: February 2017

No.	Revision	Date	By	App'd

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2012 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS), PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION; KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD FOR SANITARY SEWER EXTENSIONS; AND KITSAP COUNTY'S ROAD STANDARDS AND SPECIFICATIONS, AS SUPPLEMENTED BY THE DRAWINGS AND CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL EMPLOY THE PROPER STANDARD OF CARE FOR ALL WORK AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE ONE CALL AT 1-800-424-5555, KITSAP COUNTY PUBLIC WORKS AT (360) 337-5777 AND THE WSDOT, A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
4. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR PRIOR TO AND DURING CONSTRUCTION TO PREVENT SILT AND DEBRIS FROM ENTERING THE EXISTING STORM DRAINAGE FACILITIES AND WATERWAYS, IN COMPLIANCE WITH THESE PLANS AND WITH THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED ISSUED FOR CONSTRUCTION PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
6. ALL PIPING SHALL BE CLEANED AND TESTED PRIOR TO FINAL PAVING IN CONFORMANCE WITH THE SPECIFICATIONS.
7. PRIOR TO BACKFILL, ALL PIPES AND APPURTENANCES SHALL BE INSPECTED BY THE ENGINEER. INSPECTION SHALL NOT RELIEVE THE CONTRACTOR OF CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTION.
8. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING TEMPORARY CONSTRUCTION EASEMENTS PRIOR TO CONSTRUCTION ON EASEMENTS.
9. CONTRACTOR SHALL DEVELOP A SANITARY SEWER TEMPORARY BYPASS PLAN PRIOR TO DISRUPTING ANY LIVE SEWERS, INCLUDING MAIN LINES, FORCE MAINS, OR SIDE SEWERS. PLAN SHALL ADDRESS COUNTY AND PROPERTY OWNER COORDINATION. SUBMIT PLAN TO THE ENGINEER FOR ACCEPTANCE PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL DEVELOP A WATER LINE TEMPORARY BYPASS PLAN PRIOR TO DISRUPTING ANY LIVE WATER LINES, INCLUDING MAINS LINE, PUMP STATIONS, OR WATER SERVICE LINES. PLAN SHALL ADDRESS WATER DISTRICT AND PROPERTY OWNER COORDINATION. SUBMIT PLAN TO THE CONSTRUCTION MANAGER FOR ACCEPTANCE PRIOR TO CONSTRUCTION
11. CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE PRIOR TO COMMENCING CONSTRUCTION.
12. PHYSICAL CONNECTIONS TO THE EXISTING SEWER SYSTEM SHALL NOT BE MADE UNTIL AUTHORIZED BY THE ENGINEER. SUCH AUTHORIZATION WILL NOT BE GIVEN UNTIL THE CONTRACTOR HAS SATISFIED THE ENGINEER THAT THE NEW GRAVITY SEWER OR FORCE MAIN IS READY TO BE PLACED INTO SERVICE.
13. "LEMOLO IMPROVEMENTS" ENCOMPASS ALL WORK UNDER THE CONTRACT THAT OCCURS ON THE LEMOLO PENINSULA ON NOREM ROAD NE AND TUK-WI-LA ROAD NE
14. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
15. THE CONTRACTOR SHALL ADJUST ALL EXISTING MAINTENANCE HOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT FROM THE DOE. CONTRACTOR MAY MODIFY THE SWPPP INCLUDED IN APPENDIX C TO ADDRESS THE CONTRACTOR'S MEANS AND METHODS OR PREPARE A NEW SWPPP AS PART OF THE PERMIT APPLICATION. ONCE THE SWPPP IS APPROVED BY DOE, THE CONTRACTOR SHALL FOLLOW ALL NPDES REQUIREMENTS.
17. CONTRACTOR SHALL APPLY FOR, OBTAIN, AND COMPLY WITH ALL PERMITS REQUIRED AS SPECIFIED IN SECTION 1-07.6(2) OF THE SPECIAL PROVISIONS.

CONSTRUCTION SCHEDULE CONSTRAINTS

1. THE NEW 12-INCH MAINS SHALL NOT BE CONNECTED TO THE EXISTING LEMOLO INVERTED SIPHON UNTIL THE NEW SEWER FACILITIES BETWEEN THE CONNECTION POINT AND PUMP STATION 67 AS WELL AS THE NEW PUMP STATION 67 HAVE BEEN SUCCESSFULLY INSTALLED, CLEANED, TESTED AND ARE FULLY OPERATIONAL.
2. WORK ON THE BEACH IS SUBJECT TO THE HYDRAULIC PROJECT APPROVAL ISSUED BY THE WASHINGTON DEPARTMENT OF FISH AND WILDLIFE, WHICH CONTAINS CONSTRAINTS ON THE TIME OF YEAR WHEN THIS WORK CAN BE COMPLETED. WORK BELOW THE ORDINARY HIGH WATER LINE MAY ONLY BE PERFORMED BETWEEN JUNE 15 AND AUGUST 31 AND SHALL BE TIMED TO COINCIDE WITH LOW TIDE CONDITIONS (EL -3.5').
3. THE TOWN OF KEYPORT HOLDS ITS KEYPORT FESTIVAL ON THE THIRD WEEKEND OF SEPTEMBER. THEREFORE, NO WORK SHALL OCCUR ON WASHINGTON AVENUE NE DURING THAT WEEKEND, AND ALL SURFACES ALONG WASHINGTON AVE NE, NE GRANDVIEW BLVD, AND NE PACIFIC BLVD SHALL BE RESTORED TO A SMOOTH, WALKABLE SURFACE, NO LATER THAN 12:00 PM ON THE FRIDAY BEFORE THE FESTIVAL.
4. COORDINATE INSTALLATION OF A TEMPORARY ACCESS FOR 15449 WASHINGTON AVE NE. CONTRACTOR TO PROVIDE TEMPORARY 24-FT WIDE DITCH CROSSING AND TEMPORARY 20-FT WIDE DOUBLE LEAF GATE FOR PROPERTY ACCESS FROM NE GRANDVIEW BLVD. TEMPORARY ACCESS TO BE INSTALLED PRIOR TO COMMENCING WORK IN WASHINGTON AVE NE. COORDINATE LOCATION WITH CM.

EROSION CONTROL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LADEN RUNOFF FROM LEAVING THE SITE, OR STAGING AREA, ENTERING THE DRAINAGE SYSTEM, OR VIOLATING APPLICABLE WATER QUALITY STANDARDS. FAILURE BY THE CONTRACTOR TO PREVENT SILT-LADEN RUNOFF OR SEDIMENT FROM BEING TRANSPORTED FROM THE PROJECT SITE MAY RESULT IN A FINE. THE DESIGNATED CONTACT PERSON SHALL BE AVAILABLE BY TELEPHONE ON A 24 HOUR PER DAY BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER.
2. THE IMPLEMENTATION OF THE SWPPP, THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR FROM THE BEGINNING OF CONSTRUCTION UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE OWNER AND THE SITE IS STABILIZED.
3. TESC FACILITIES SHOWN ON THE PLANS AND IDENTIFIED IN THE SWPPP ARE TO BE CONSIDERED BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, ADDITIONAL PROVISIONS MAY BE NECESSARY TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THE TESC MEASURES SHOWN ON THE PLANS, MAY BE PERMITTED SUBJECT TO THE APPROVAL OF THE CONSTRUCTION MANAGER. HOWEVER, EXCEPT FOR EMERGENCY SITUATIONS, MAJOR DEVIATIONS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. DOCUMENTATION AND RECORD KEEPING OF THESE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE SWPPP.
4. TESC MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AS DEFINED IN THE SPECIFICATIONS AND IMMEDIATELY AFTER EACH RAINFALL, AND SHALL BE MAINTAINED AS NECESSARY TO INSURE THEIR CONTINUED FUNCTION. ALL SEDIMENT MUST BE REMOVED FROM SILT FENCES, STRAW BALES, SEDIMENT PONDS, CATCH BASIN INSERTS, ETC. PRIOR TO THE SEDIMENT REACHING APPROXIMATELY ONE-HALF OF THE MAXIMUM POTENTIAL DEPTH.
5. AT NO TIME SHALL CONCRETE, CONCRETE BY-PRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM, OR TO DISCHARGE FROM THE PROJECT SITE.
6. PERMANENT DETENTION/RETENTION PONDS, PIPES, TANKS OR VAULTS MAY ONLY BE USED FOR SEDIMENT CONTAINMENT WHEN SPECIFICALLY INDICATED ON THESE PLANS OR OTHERWISE APPROVED BY THE OWNER.
7. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE TESC FACILITIES ARE NO LONGER REQUIRED SHALL BE REMOVED OR DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
8. BARE EARTH AREAS WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 15 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH APPROVED TESC METHODS, E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.
9. TESC FACILITIES ON INACTIVE SITES SHALL ALSO BE INSPECTED AND MAINTAINED AS NECESSARY.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION CONTROL AND SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, ADDITIONAL CONTROL FACILITIES MAY BE REQUIRED. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
11. THE CONTRACTOR SHALL KEEP ALL PAVED SURFACES IN THE RIGHT OF WAY CLEAN BY SWEEPING.
12. REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENT.
13. WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.
14. INSTALL FLOW DIVERSION MEASURES OUTSIDE OF THE CRITICAL ROOT ZONE OF TREES TO BE PROTECTED. AT NO TIME SHALL CONSTRUCTION STORMWATER BE DIRECTED TOWARDS TREES TO BE PROTECTED. CONSTRUCTION STORMWATER SHALL NOT POND WITHIN A TREE'S CRITICAL ROOT ZONE.

GENERAL DRAINAGE NOTES

1. THE CONTRACTOR SHALL ENSURE THAT THE DRAINAGE IS INSTALLED AND OPERATIONAL PRIOR TO COMMENCEMENT OF PAVING WORK.
2. ALL STEEL PIPE AND PARTS SHALL BE GALVANIZED. ALL SUBMERGED STEEL PIPES AND PARTS SHALL BE GALVANIZED AND HAVE ASPHALT TREATMENT #1 OR BETTER.
3. DRAINAGE STUBOUTS ON INDIVIDUAL LOTS SHALL BE LOCATED WITH A FIVE FOOT HIGH 2" X 4" STAKE MARKED "STORM". THE STUBOUT SHALL EXTEND ABOVE SURFACE LEVEL AND BE SECURED TO THE STAKE.
4. PRIOR TO PLANTING, BIORETENTION SWALES AND SOILS SHALL BE REVIEWED BY COUNTY'S PROJECT REPRESENTATIVE. ALL SOIL MIX TICKETS SHALL BE SUBMITTED AT OR BEFORE THIS SCHEDULED REVIEW.

RECORD DRAWING

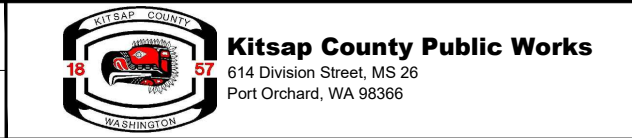
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No.	Revision	Date	By	App'd



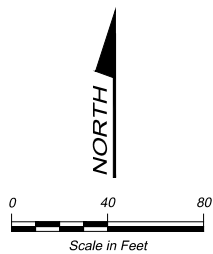
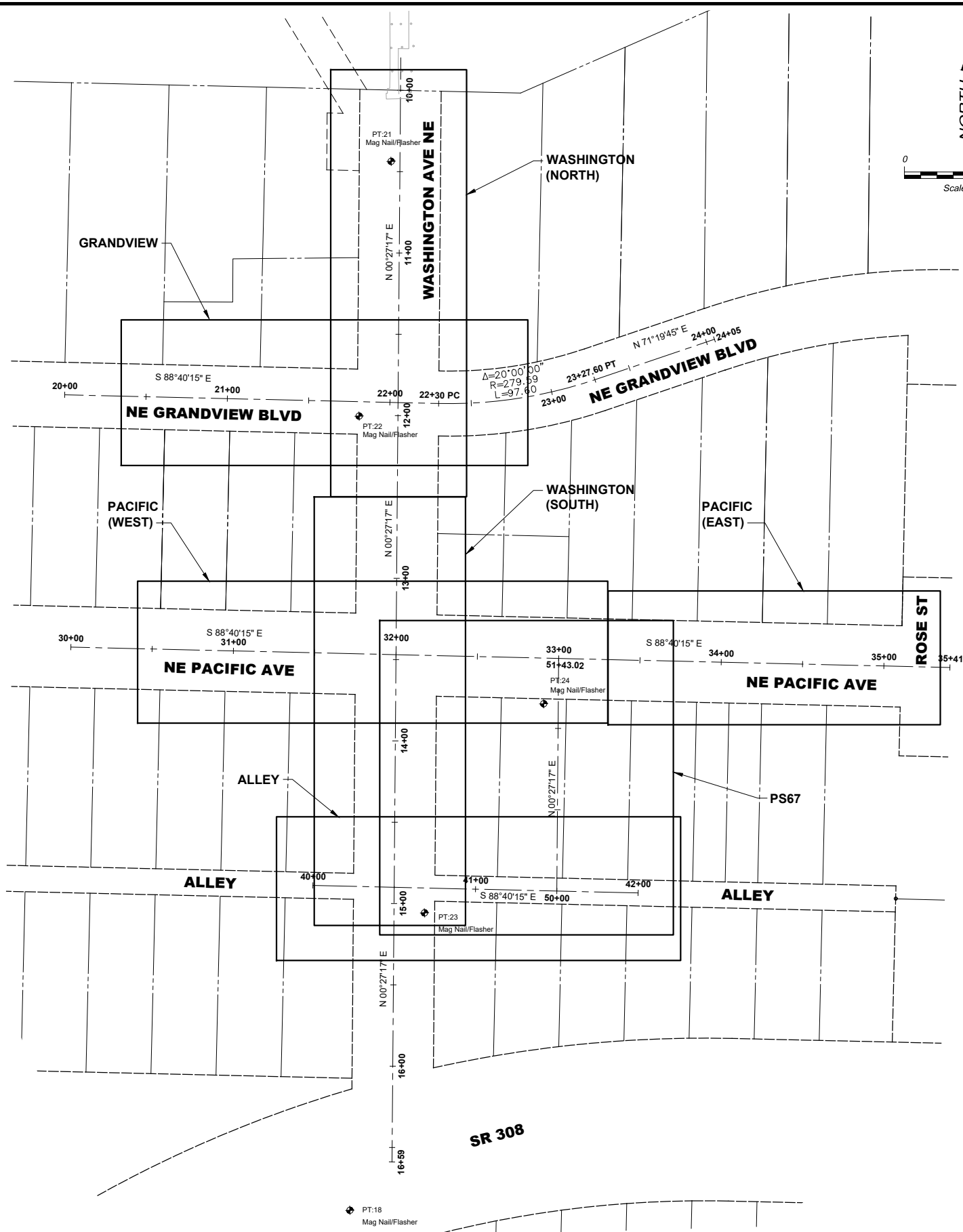
Designed: T. Fisher, P.E.
Drawn: P. Simon
Checked:
Approved:

Scale:
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One Inch At Full Scale
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KITSAP COUNTY PS 16/67 UPGRADES	
GENERAL NOTES	
Drawing: G-07	
Sheet: 6 Of 101	
File: 06-P13-10282_G-07	
Date: February 2017	

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 XREFS: Kitsap_IB



SURVEY CONTROL AND PROJECT ALIGNMENT DATA					
CONTROL POINT NO.	STATION I.D.	NORTH	EAST	ELEVATION	DESC.
18		261331.2650	1199501.1250	32.07	MAG NAIL
21		261976.2580	1199526.4466	13.50	MAGE NAIL
22		261819.5973	1199506.7834	23.62	MAG NAIL
23		261514.1860	1199547.0040	30.37	MAG NAIL
24		261642.7630	1199620.2860	26.88	MAG NAIL
	10+00	262019.9054	1199532.2501		BEGIN STA.
	11+92	261827.9114	1199530.7263		STA. INTER.
	13+47	261672.9163	1199529.4962		STA. INTER.
	14+90.02	261529.8970	1199528.3611		STA. INTER.
	16+59	261361.0151	1199527.0207		END STA.
	20+00	261832.6667	1199325.7815		BEGIN STA.
	22+30	261827.3315	1199555.7196		P.C.
	23+27.60	261841.9704	1199651.7118		P.T.
	24+05	261866.8128	1199725.2287		END STA.
	30+00	261677.5556	1199329.5500		BEGIN STA.
	35+41	261665.0154	1199870.0145		END STA.
	40+00	261531.0568	1199478.3745		BEGIN STA.
	42+00	261526.4175	1199678.3207		END STA.
	50+00	261527.5774	1199628.3342		BEGIN STA.
	51+43.02	261670.5964	1199629.4693		END STA.

LEGEND

- ◆ SURVEY CONTROL POINT
- MAG 1/2" "MAG" BRAND CONCRETE NAIL
- SHEET OUTLINE

SURVEY NOTES

- HORIZONTAL CONTROL DATUM IS NAD83(91) BASED ON GPS OBSERVATIONS WITH CROSS CHECKS TO KITSAP COUNTY SURVEY CONTROL.
- VERTICAL CONTROL DATUM IS NGVD 1929 ESTABLISHED BY GPS OBSERVATIONS WITH CROSS CHECKS TO KITSAP COUNTY SURVEY CONTROL.

PROJECT OVERVIEW KEY (DRAWING SHEET REFERENCES)						
WASHINGTON (NORTH)	WASHINGTON (SOUTH)	GRANDVIEW	PACIFIC (WEST)	PACIFIC (EAST)	PS67	ALLEY
D-01	D-02	D-03	D-04	D-05	D-06	C-37
C-17	C-18	C-19	C-20	C-21	C-25	C-41
C-22	C-23	C-28	C-24	C-30	C-38	
C-26	C-27	C-34	C-29	C-36	C-40	
C-32	C-33	L-6	C-35	L-8	C-27	
L-4	L-5		L-7		L-9	

RECORD DRAWING

No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

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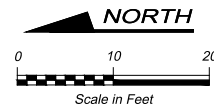
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Scale:
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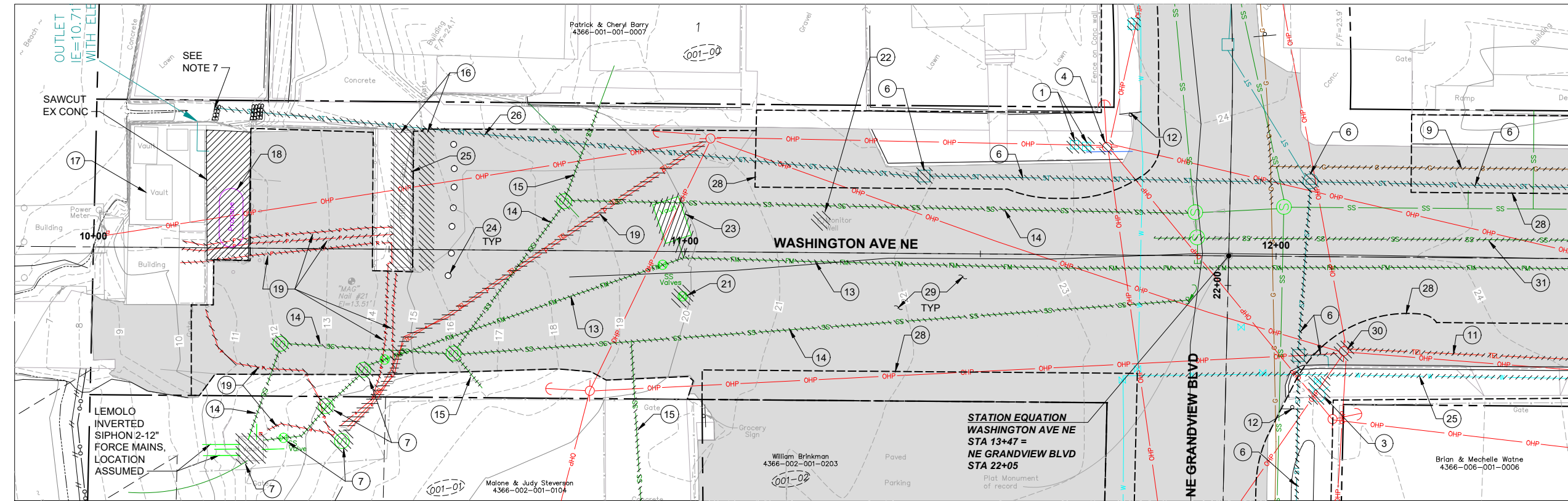
Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
SURVEY CONTROL
KEYPORT IMPROVEMENTS

Drawing: **G-08**
 Sheet: **7** Of **101**
 File: 07-P13-10282_G-08
 Date: February 2017



SEE DWG D-03 FOR DEMOLITION ON GRANDVIEW BLVD



MATCHLINE STA 12+50 - SEE DWG D-02

SEE DWG D-03 FOR DEMOLITION ON GRANDVIEW BLVD

DEMOLITION NOTES:

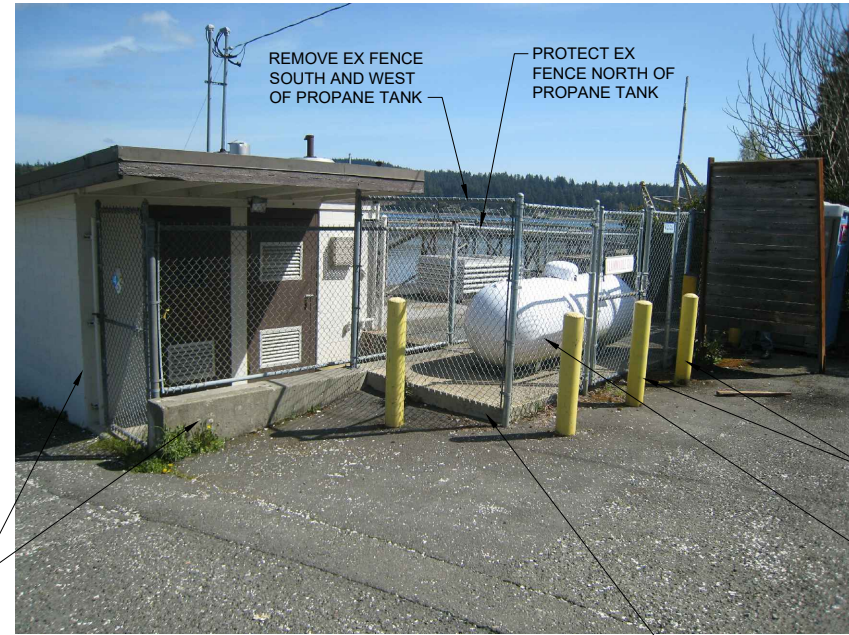
- 1 FIELD RELOCATE EX WATER MAIN, SERVICE, OR METER, SEE SECTION 15060 OF SPECIFIC PROVISIONS
- 2 NOT USED
- 3 REMOVE EX HYDRANT AND VALVE
- 4 RELOCATE EX POWER POLE (BY PSE)
- 5 NOT USED
- 6 REMOVE EX STORM
- 7 ABANDON EX WET WELL, DRY WELL, AND MANHOLES, SEE NOTES 1 AND 2
- 8 NOT USED
- 9 RELOCATE EX GAS (BY CNGC)
- 10 NOT USED
- 11 REMOVE EX UNDERGROUND TELECOMM
- 12 RELOCATE EX STOP SIGN, SEE DWG C-32
- 13 ABANDON EX 16" SEWER FORCE MAIN
- 14 ABANDON EX 8" GRAVITY SEWER PIPE AND MANHOLES
- 15 ABANDON EX SEWER LATERAL
- 16 REMOVE EX UTILITY BANK AND ARBORVITAE, SEE DETAIL 2/D-02
- 17 REMOVE EX GENERATOR, SEE NOTE 2 AND DETAIL 1/D-02
- 18 REMOVE EX PROPANE TANK, SEE NOTE 2 AND DETAIL 1/D-01
- 19 ABANDON EX POWER AND TELEPHONE, SEE NOTE 4
- 20 NOT USED
- 21 REMOVE EX SEWER VALVE BOX

NOTES:

- 22 ABANDON EX MONITORING WELL
- 23 ABANDON EX PIG LAUNCH VAULT, SEE NOTE 3
- 24 PROTECT EX BOLLARDS SOUTH OF ARBORVITAE
- 25 RELOCATE EX WATERMAIN, SEE DWG C-31A
- 26 ABANDON EX STORM
- 27 NOT USED
- 28 SAWCUT AND REMOVE EX PAVEMENT CURB, SIDEWALK AND LANDSCAPING AS APPLICABLE WITHIN APPROXIMATE LIMITS. REFER TO CIVIL DWGS FOR EXACT LIMITS OF RESTORATION IMPROVEMENTS.
- 29 SEE CIVIL DWGS FOR EX PAVEMENT RESTORATION REQUIREMENTS
- 30 RELOCATE EX POWER POLE (BY CENTURY LINK)
- 31 EXISTING SS ABANDONED IN PLACE SSMH-G20-0240 REMAINED IN SERVICE.

NOTES:

1. REMOVE EXISTING WET WELL, DRY WELL, MANHOLES AND CATCH BASINS TO BE ABANDONED TO A DEPTH OF FOUR (4) FEET BELOW GROUND. REMOVE AND DISPOSE OF/SALVAGE PUMPS, PIPE, AND EQUIPMENT IN DRY WELL. FILL REMAINING STRUCTURE WITH CDF AND BACKFILL EXCAVATION WITH GRAVEL BORROW OUTSIDE PAVED AREA OR CSBC WITHIN PAVED AREA.
2. SALVAGE GENERATOR, PROPANE TANK, RTU, DRY WELL, BLOWER, DEHUMIDIFIER, SUMP PUMP AND ANTENNA. DELIVER SALVAGED ITEMS TO THE CKTP.
3. REMOVE EX. PIG LAUNCH AND REINSTALL AT PS67. SEE DRAWING M-02 FOR MORE INFORMATION.
4. DISCONNECT EXISTING POWER AND TELEPHONE AT SOURCE AND ABANDON IN PLACE.
5. DO NOT ABANDON EX. SEWER FACILITIES UNTIL ALL NEW SEWER FACILITIES HAVE BEEN SUCCESSFULLY INSTALLED, CLEANED, TESTED AND ARE FULLY OPERATIONAL.
6. SEE SECTION 02072 OF THE SPECIAL PROVISIONS FOR ADDITIONAL DEMOLITION AND ABANDONING REQUIREMENTS.
7. REMOVE END OF EX STORM AS NEEDED TO CONSTRUCT NEW STORM AND OUTFALL, SEE DWG C-26.



REMOVAL OF EXISTING PROPANE TANK DETAIL
NTS TYP

RECORD DRAWING

Call 48 Hours Before You Dig
1-800-424-5555
UNDERGROUND SERVICE

FILE NAME (UPDATED BY) C:\P\WORKING\SEA\100600325\08-P13-10282-D-01.DWG (GOC) APR 23 2016 09:53:12
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No.	Revision	Date	By	App'd

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Drawn: P. Simon
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

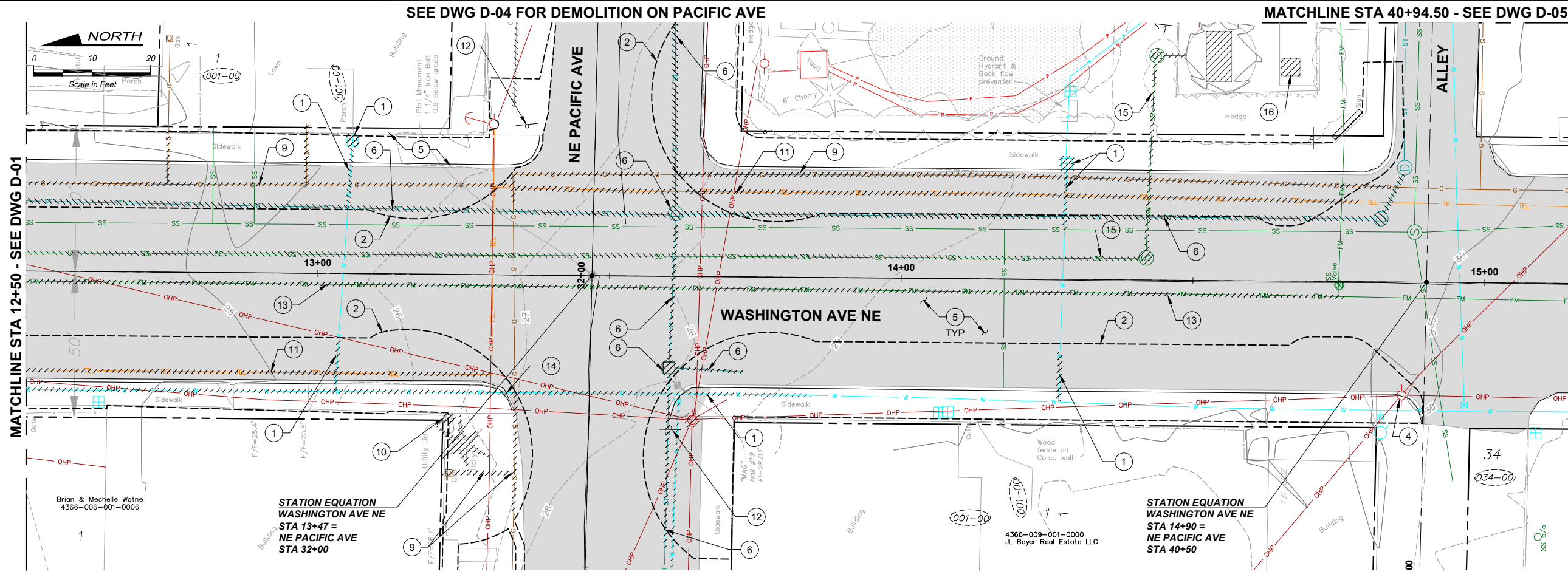
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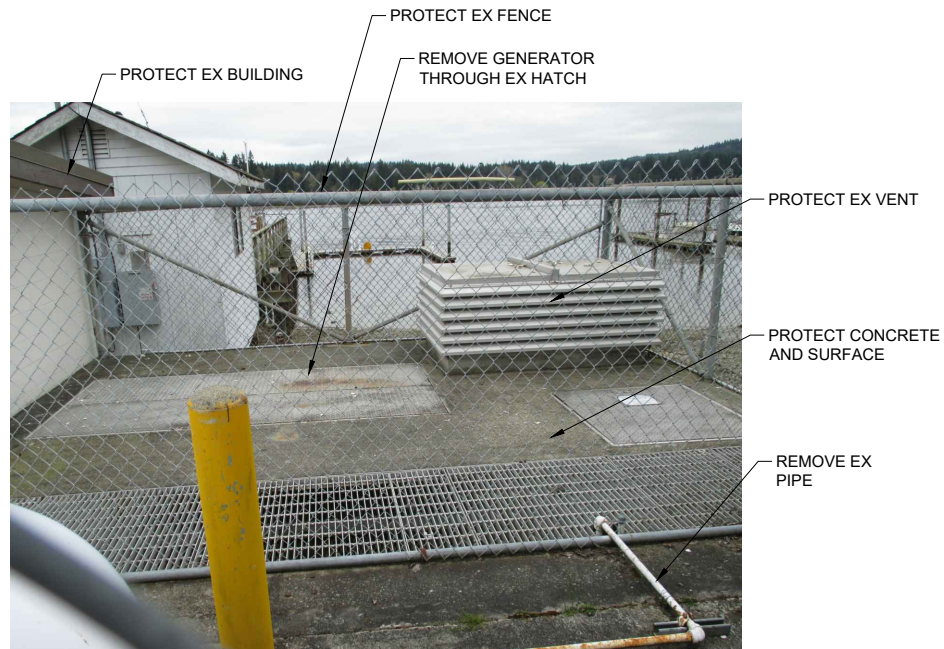
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
DEMOLITION PLAN
WASHINGTON AVE NE

Drawing: **D-01**
Sheet: **8** Of **101**
File: 08-P13-10282_D-01
Date: February 2017



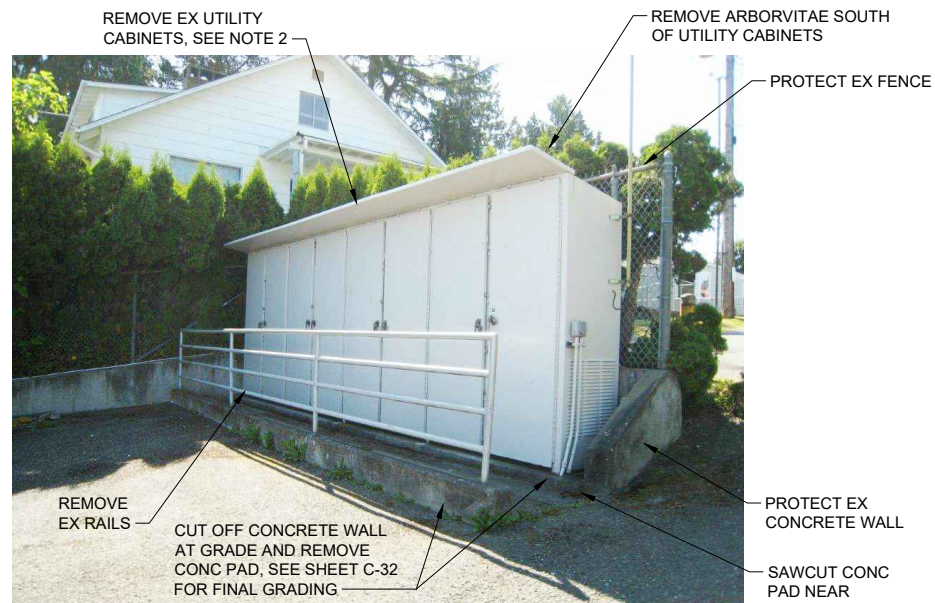
SEE DWG D-04 FOR DEMOLITION ON PACIFIC AVE



REMOVAL OF EXISTING GENERATOR

DETAIL 1

NTS TYP



REMOVAL OF EXISTING UTILITY BANK

DETAIL 2

NTS TYP

NOTES:

- DO NOT ABANDON EXISTING SEWER FORCE MAIN UNTIL ALL NEW SEWER FACILITIES HAVE BEEN SUCCESSFULLY INSTALLED, CLEANED, TESTED AND ARE FULLY OPERATIONAL. SEE CONSTRUCTION SCHEDULE CONSTRAINTS ON DWG G-7.
- ABANDON CATCH BASINS BY REMOVING STRUCTURE TO DEPTH FOUR (4) FEET BELOW GROUND. FILL REMAINING STRUCTURE WITH CDF AND BACKFILL EXCAVATION WITH CSBC.
- SEE SECTION 02072 OF THE SPECIAL PROVISIONS FOR ADDITIONAL DEMOLITION AND ABANDONING REQUIREMENTS.

RECORD DRAWING

Call 48 Hours Before You Dig

1-800-424-5555

UNDERGROUND SERVICE

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 PLOT DATE & TIME APR 23 2015 09:58:40

No.	Revision	Date	By	App'd

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 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.

Scale:
 1" = 10'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

KITSAP COUNTY

Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES

DEMOLITION PLAN

WASHINGTON AVE NE

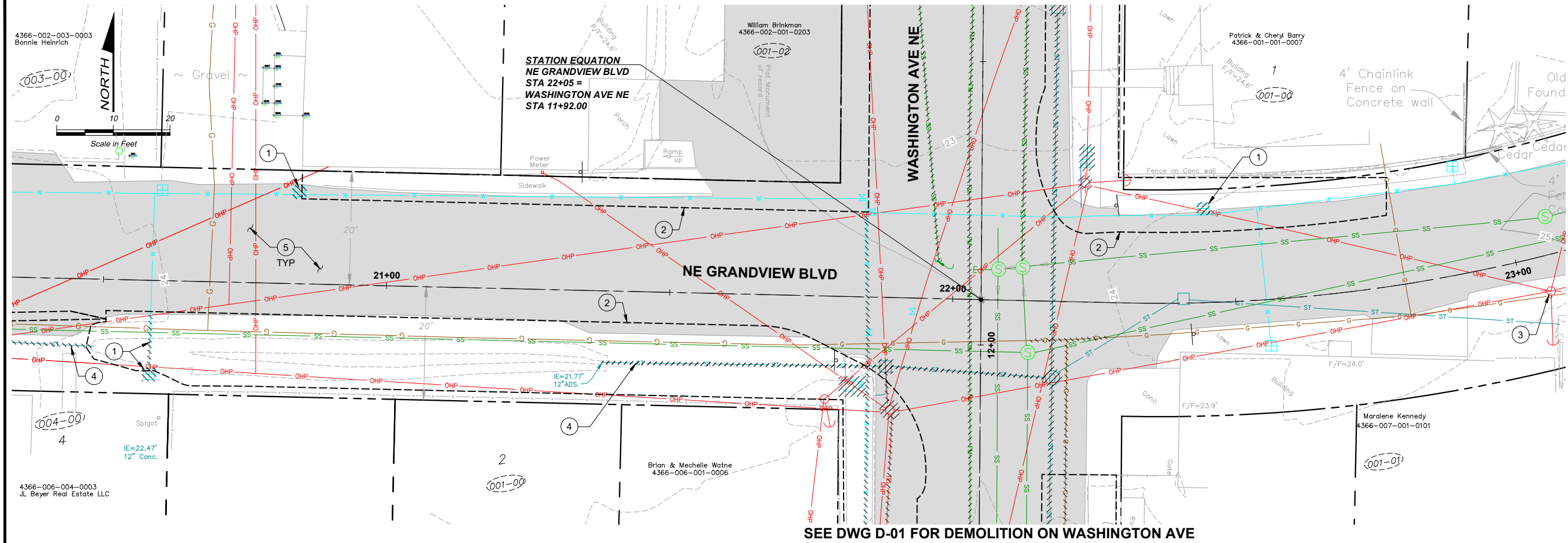
Drawing: **D-02**

Sheet: **9** Of **101**

File: 09-P13-10282_D-02

Date: February 2017

SEE DWG D-01 FOR DEMOLITION ON WASHINGTON AVE



SEE DWG D-01 FOR DEMOLITION ON WASHINGTON AVE

DEMOLITION NOTES:

- 1 FIELD RELOCATE EX WATER MAIN, SERVICE OR METER, SEE SECTION 15060 OF SPECIAL PROVISIONS.
- 2 SAWCUT AND REMOVE PAVEMENT CURB, SIDEWALK AND LANDSCAPING AS APPLICABLE WITHIN APPROXIMATE LIMITS. REFER TO CIVIL DWGS FOR EXACT LIMITS OF RESTORATION IMPROVEMENTS
- 3 RELOCATE EX POWER POLE (BY PSE).
- 4 REMOVE EX STORM.
- 5 SEE CIVIL DWGS FOR EX PAVEMENT RESTORATION REQUIREMENTS

NOTES:

1. SEE SECTION 02072 OF THE SPECIAL PROVISIONS FOR ADDITIONAL DEMOLITION AND ABANDONING REQUIREMENTS.
2. SEE DWG D-01 FOR DEMOLITION NOTES ON WASHINGTON AVE

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 Drawn: M. Caldwell
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 Approved: M. Harper, P.E.

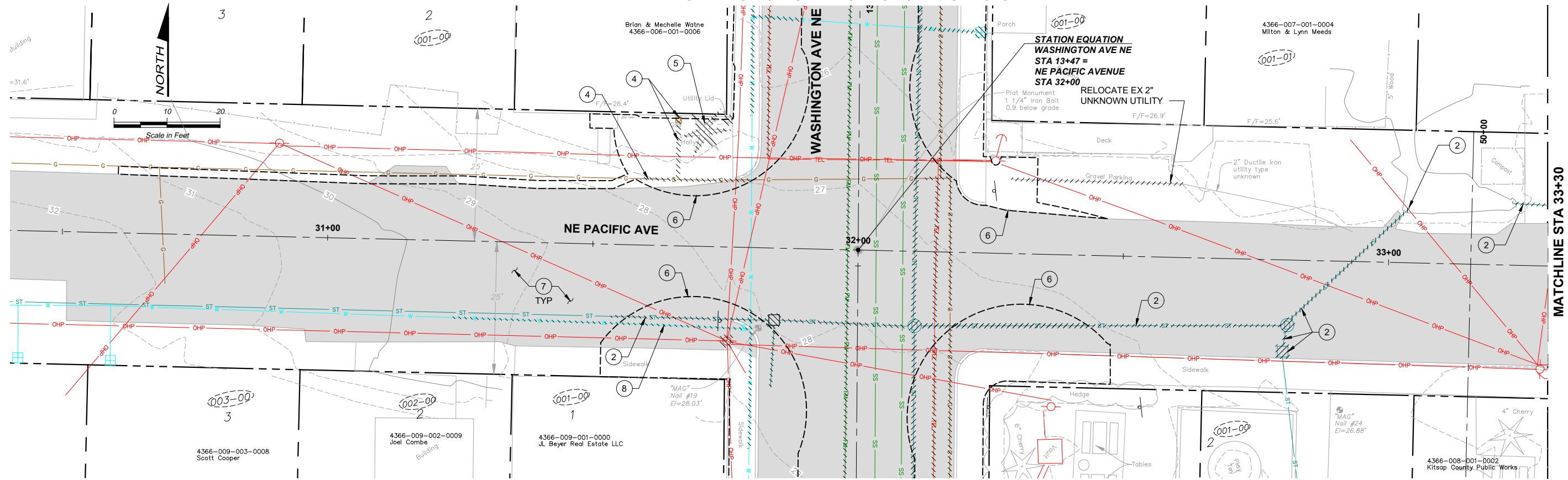
Scale:
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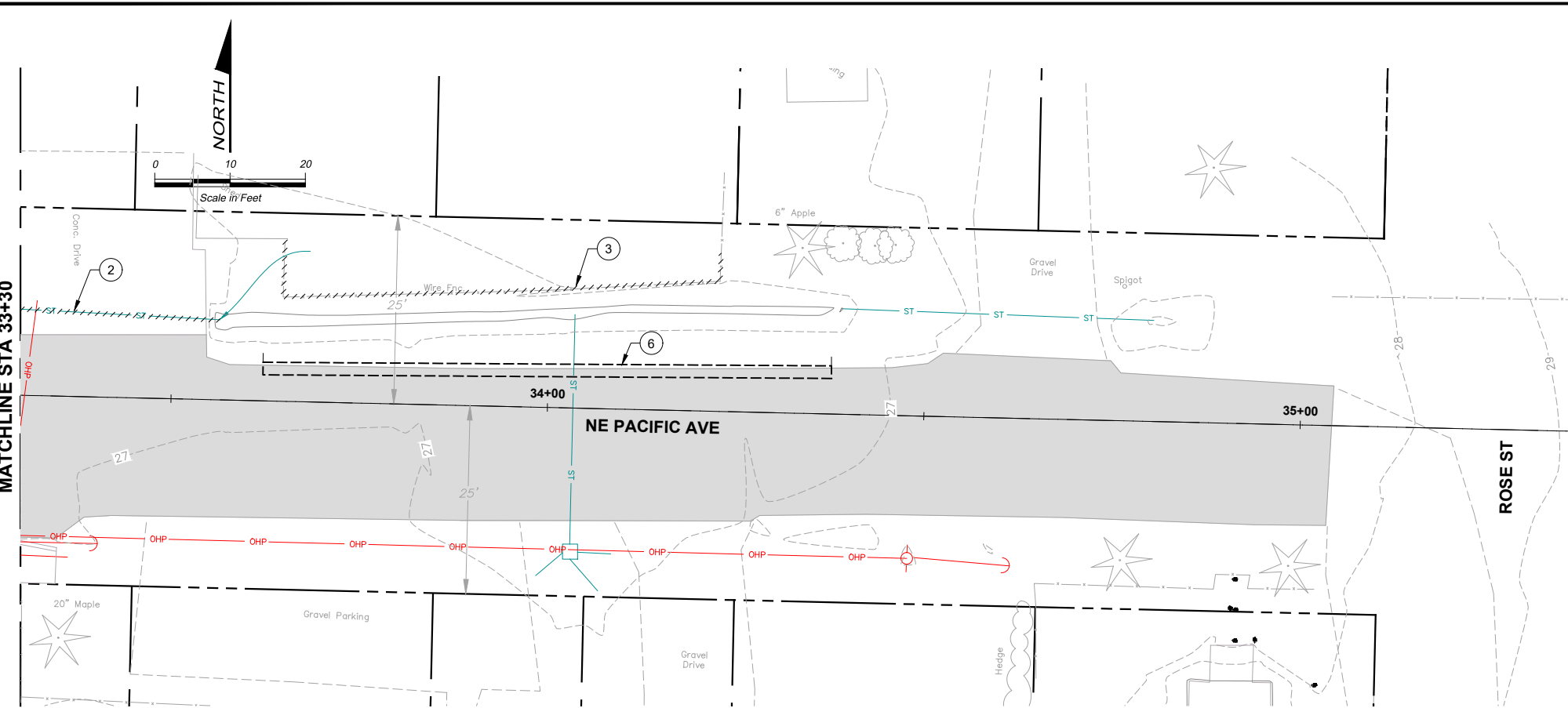
KITSAP COUNTY PS 16/67 UPGRADES
DEMOLITION PLAN
NE GRANDVIEW BLVD

Drawing: **D-03**
 Sheet: **10** Of **101**
 File: 10-P13-10282_D-03
 Date: February 2017

SEE DWG D-02 FOR DEMOLITION ON WASHINGTON AVE



SEE DWG D-02 FOR DEMOLITION ON WASHINGTON AVE



DEMOLITION NOTES:

- ① FIELD RELOCATE EX WATER MAIN, SERVICE OR METER, SEE SECTION 15060 OF SPECIAL PROVISIONS.
- ② REMOVE EX STORM.
- ③ RELOCATE EX FENCE AND SALVAGE GATE AND PROVIDE TO OWNER, SEE DWG C-36 FOR GATE RELOCATION. PROVIDE TEMPORARY FENCE UNTIL EXISTING FENCE IS REPLACED.
- ④ RELOCATE EX GAS (BY CNGC).
- ⑤ REMOVE EX SHRUB
- ⑥ SAWCUT AND REMOVE PAVEMENT CURB, SIDEWALK AND LANDSCAPING AS APPLICABLE WITHIN APPROXIMATE LIMITS. REFER TO CIVIL DWGS FOR EXACT LIMITS OF RESTORATION IMPROVEMENTS.
- ⑦ SEE CIVIL DWGS FOR EX PAVEMENT RESTORATION REQUIREMENTS
- ⑧ RELOCATE EX WATER MAIN, SEE DWG C-31C

NOTES:

- 1. SEE SECTION 02072 OF THE SPECIAL PROVISIONS DEMOLITION AND ABANDONING REQUIREMENTS.
- 2. SEE DWG D-02 FOR DEMOLITION NOTES ON WASHINGTON AVE.

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Approved: M. Harper, P.E.

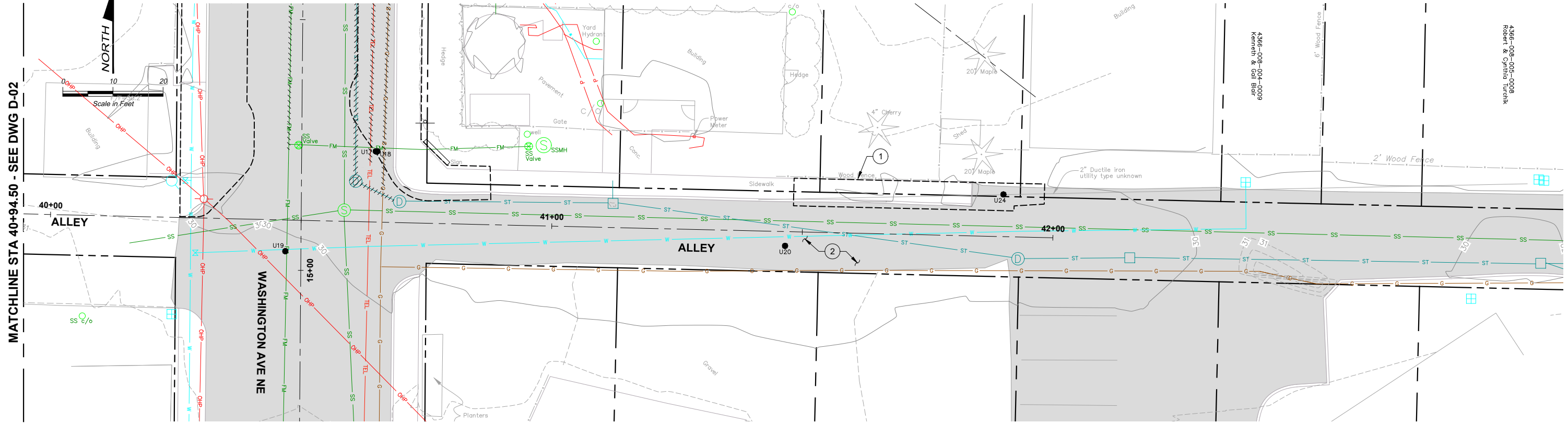
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KITSAPO COUNTY PS 16/67 UPGRADES
DEMOLITION PLAN
NE PACIFIC AVE

Drawing: **D-04**
Sheet: **11** Of **101**
File: 11-P13-10282_D-04
Date: February 2017

SEE DWG D-02 FOR DEMOLITION ON WASHINGTON AVE



SEE DWG D-02 FOR DEMOLITION ON WASHINGTON AVE

MATCHLINE STA 40+94.50 - SEE DWG D-02

- DEMOLITION NOTES:**
- 1 SAWCUT AND REMOVE PAVEMENT CURB, SIDEWALK AND LANDSCAPING AS APPLICABLE WITHIN APPROXIMATE LIMITS. REFER TO CIVIL DWGS FOR EXACT LIMITS OF RESTORATION IMPROVEMENTS.
 - 2 SEE CIVIL DWGS FOR EX PAVEMENT RESTORATION REQUIREMENTS.
- NOTES:**
1. SEE SECTION 02072 OF THE SPECIAL PROVISIONS FOR ADDITIONAL DEMOLITION AND ABANDONING REQUIREMENTS.
 2. SEE DWG D-02 FOR DEMOLITION NOTES ON WASHINGTON AVE.

FILE NAME (UPDATED BY) C:\P\WORKING\SEA\10060325\12-P13-10282-D-05.DWG (GSC) APR 23 2015 10:06:53 XREFS: Disclaimer, Fisher, Kitsap, IB, Ref Viewports, topo, X13-10282_Misc-Prof, X13-10282_LIB Demo

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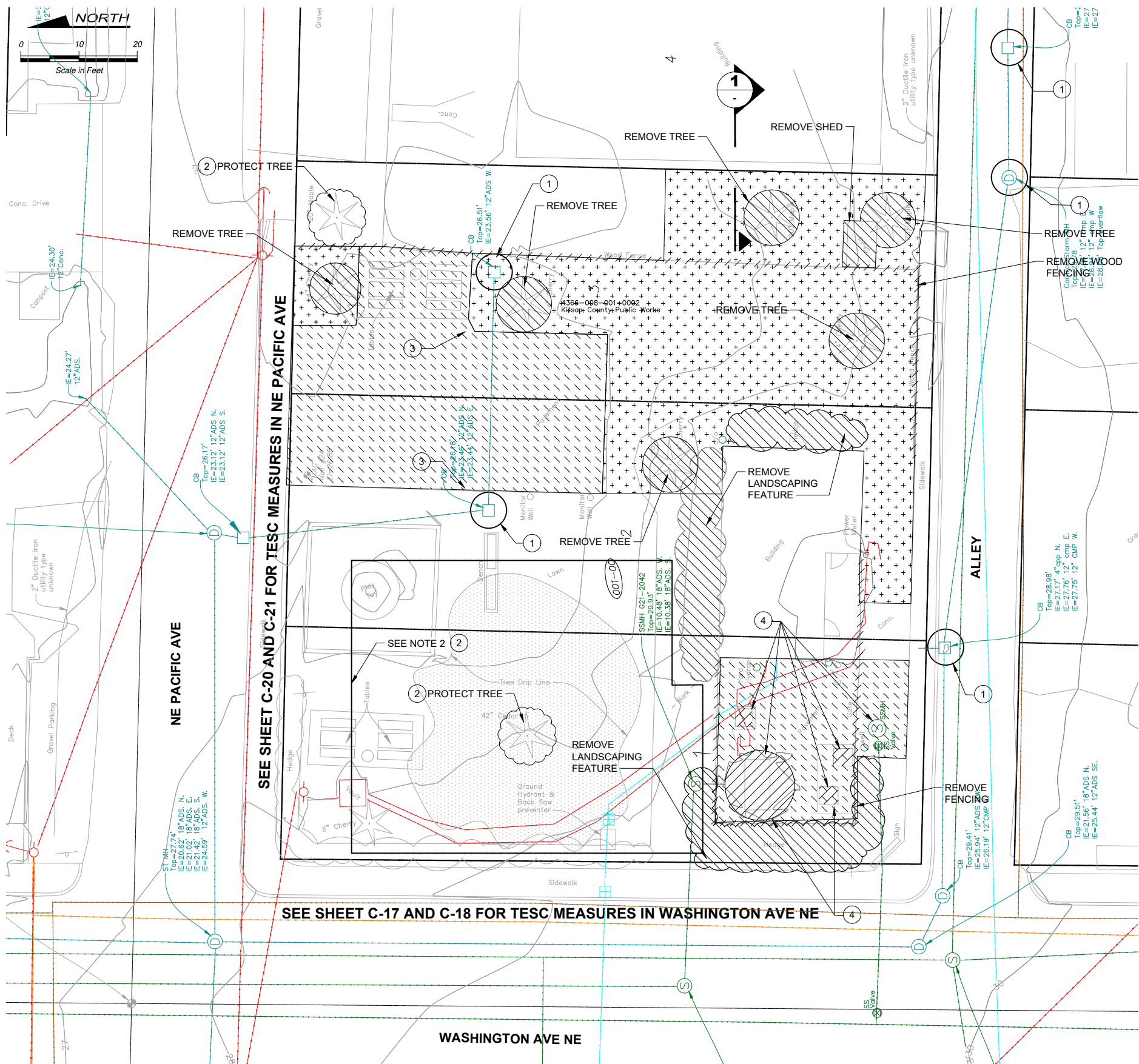
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KITSAP COUNTY PS 16/67 UPGRADES
DEMOLITION PLAN
ALLEY

Drawing: **D-05**
Sheet: **12** Of **101**
File: 12-P13-10282_D-05
Date: February 2017

FILE NAME: (UPDATED BY) PLOT DATE & TIME
 APR 09 2013 07:13:40
 S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_PP-SU.DWG (R.S.)
 XREFS: X12-10237-01PL_PP_Silverdale, X12-10237-01PL_PP_Silverdale, X12-10237-01PL_PP_Silverdale, X12-10237-01PL_PP_Silverdale, X12-10237-01PL_PP_Silverdale



- NOTES:**
- EXISTING PS 67 FEATURES MUST REMAIN IN OPERATION UNTIL NEW PS 67 IS IN OPERATION.
 - ONLY HAND EXCAVATION OR ROOT CUTTING ALLOWED WITHIN TREE IMPACT ZONE.

- CONSTRUCTION NOTES:**
- CATCH BASIN INSERT, SEE DETAIL 1/C-01.
 - INSTALL FLOW DIVERSION MEASURES OUTSIDE OF THE CRITICAL ROOT ZONE OF TREES TO BE PROTECTED. AT NO TIME SHALL CONSTRUCTION STORMWATER BE DIRECTED TOWARDS TREES TO BE PROTECTED. CONSTRUCTION STORMWATER SHALL NOT POND WITHIN A TREE'S CRITICAL ROOT ZONE. SEE SPECIFICATION SECTION 02960.
 - REMOVE AND REPLACE SPORT COURT NET POST ANCHORS. NEW POST ANCHORS SHALL BE SIMILAR IN APPEARANCE AND FUNCTION AS THE EXISTING ANCHORS. MATCH EXISTING ANCHOR LOCATIONS.
 - DEMOLISH EXISTING WET WELL AND MANHOLE STRUCTURES TO 4' BELOW GRADE AND FILL WITH PEA GRAVEL. DEMOLISH EXISTING STRUCTURES IN THEIR ENTIRETY.



**EXISTING ELECTRICAL CONDUIT
 DETAIL**
 NTS 1 TYP

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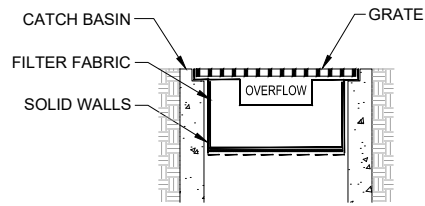
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Designed: K. JACOBSON
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 Scale: 1" = 10'
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KITSAP COUNTY PS 16/67 UPGRADES
DEMOLITION/CLEARING AND TESC PLAN
PUMP STATION 67

Drawing: **D-06**
 Sheet: **13** Of **101**
 File: 13-P13-10282_D-06
 Date: February 2017



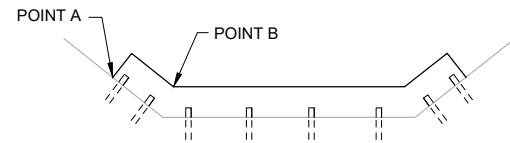
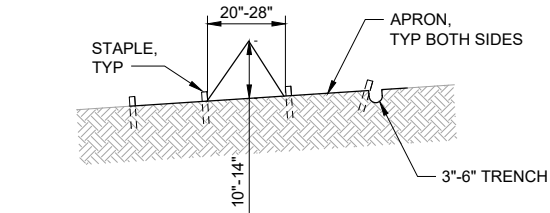
NOTE:
THIS DETAIL IS SCHEMATIC. INSERT SHALL HAVE A MINIMUM OF 0.5 CF OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, AN OVERFLOW, AND BE EASILY MAINTAINED.

CATCH BASIN FILTER MAINTENANCE:

1. ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON-SITE OR HAULED OFF-SITE.
2. SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
3. REGULAR MAINTENANCE IS CRITICAL FOR CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

CATCH BASIN INSERT

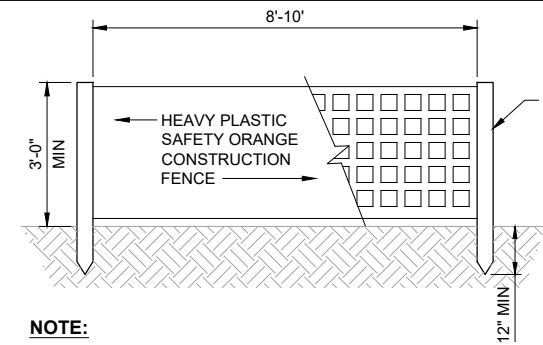
DETAIL 1
NTS TYP



- NOTES:**
1. TRIANGULAR SILT DIKE SHALL BE URETHANE FOAM SEWN INTO A WOVEN GEOSYNTHETIC FABRIC.
 2. A 2' MINIMUM APRON SHALL EXTEND ON EITHER SIDE OF THE TRIANGULAR SECTION.
 3. STAPLES SHALL BE NO. 11 GAUGE WIRE, 8"-12" IN LENGTH, INSTALLED 3' ON CENTER AND WHERE DIKE UNITS OVERLAP.
 4. THE LEADING EDGE SHALL BE SECURED WITH SANDBAGS OR KEYED INTO NATIVE GROUND.
 5. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF THE HEIGHT OF THE DAM.
 6. POINT A SHALL BE HIGHER THAN POINT B.

SILT DIKE

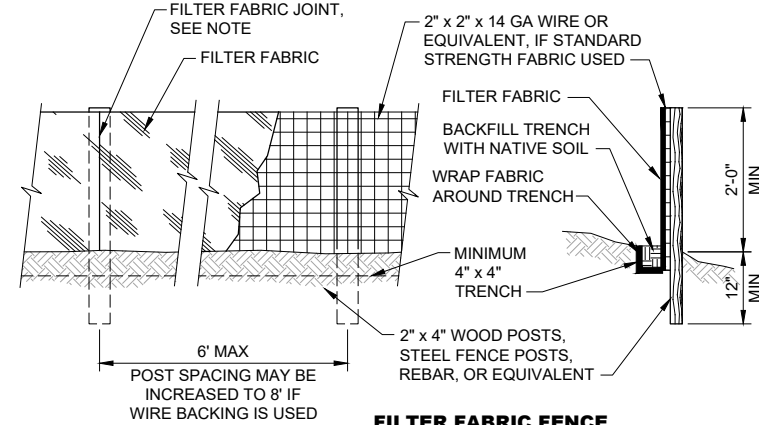
DETAIL 2
NTS TYP



NOTE:
FENCE TO BE USED WHERE CONSTRUCTION OR REMEDIATION ACTIVITIES ARE ONGOING AND WILL BE INSTALLED ALONG THE PROJECT CLEARING LIMITS TO DELINEATE WORK ZONE.

CLEARING LIMIT/WORK ZONE DELINEATION FENCE

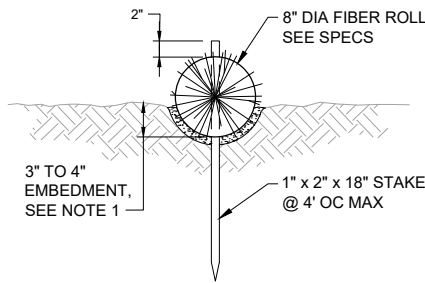
DETAIL 3
NTS TYP



- NOTES:**
1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE. JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS. INSTALL FILTER FABRIC ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 2. FILTER FABRIC FENCE TO BE USED WHERE NEEDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FILTER FABRIC FENCE

DETAIL 4
NTS TYP



- NOTES:**
1. STOCKPILE SOIL FROM EXCAVATION ON SITE. WHEN CONSTRUCTION IS FINISHED, PLACE SOIL IN TRENCH, WHEEL-ROLL, AND GRADE SMOOTH.
 2. DISPOSE OF USED FIBER ROLLS OFFSITE.

FIBER ROLL

DETAIL 5
NTS TYP

FILE NAME (UPDATED BY)
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XREFS: Kitsap_IB_X13-10282-01PS_Prelim

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Designed: J. ERICKSON, P.E.
Drawn: W. NEWELL
Checked: J. BROWN, P.E.
Approved: R. KIRSCHBAUM, P.E.

Scale:
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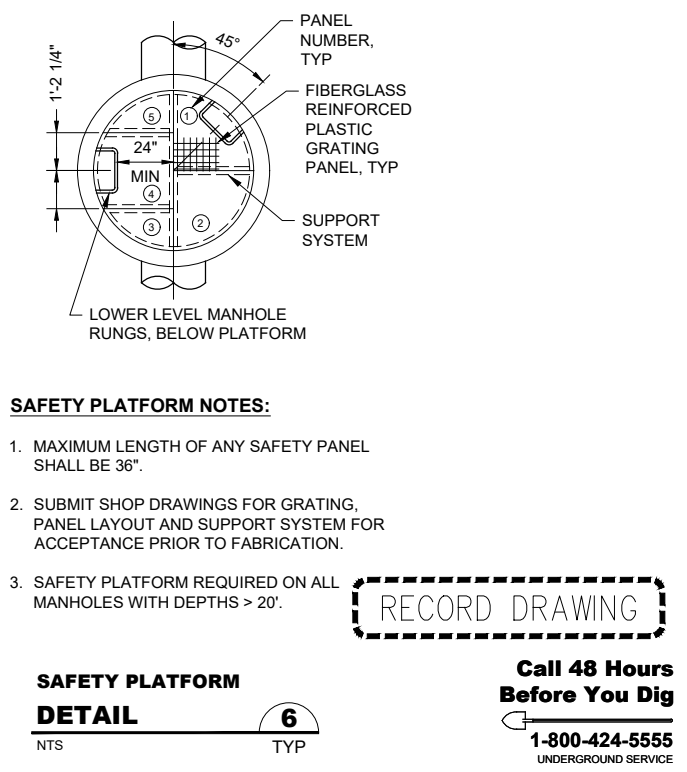
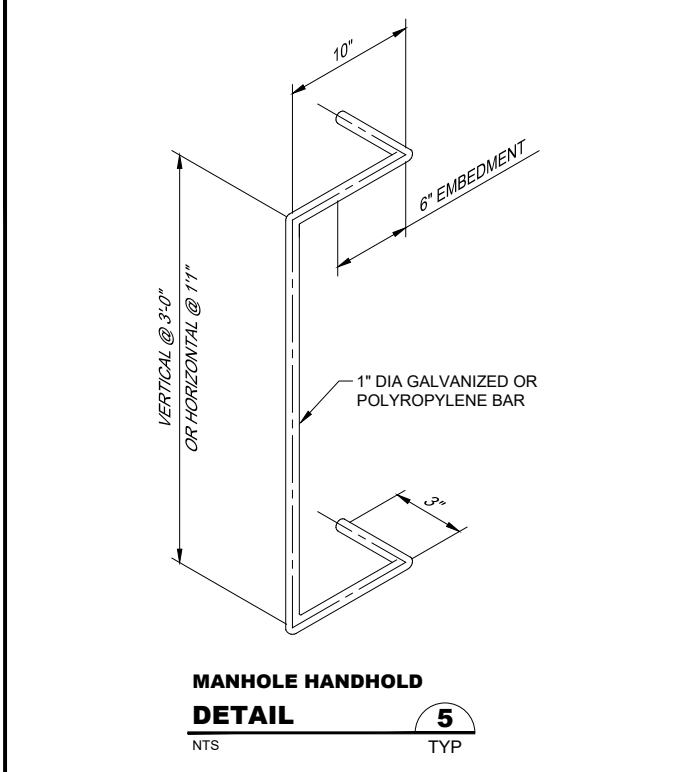
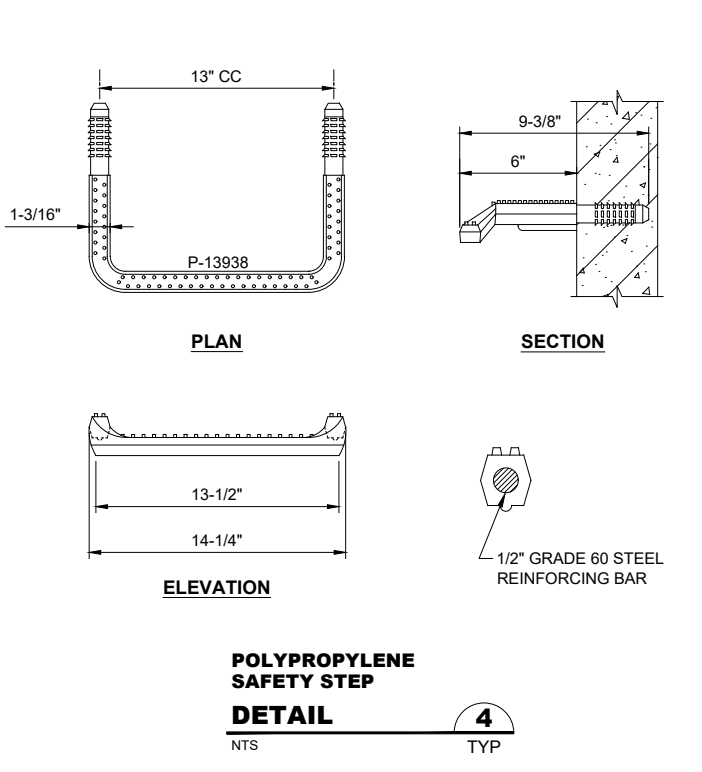
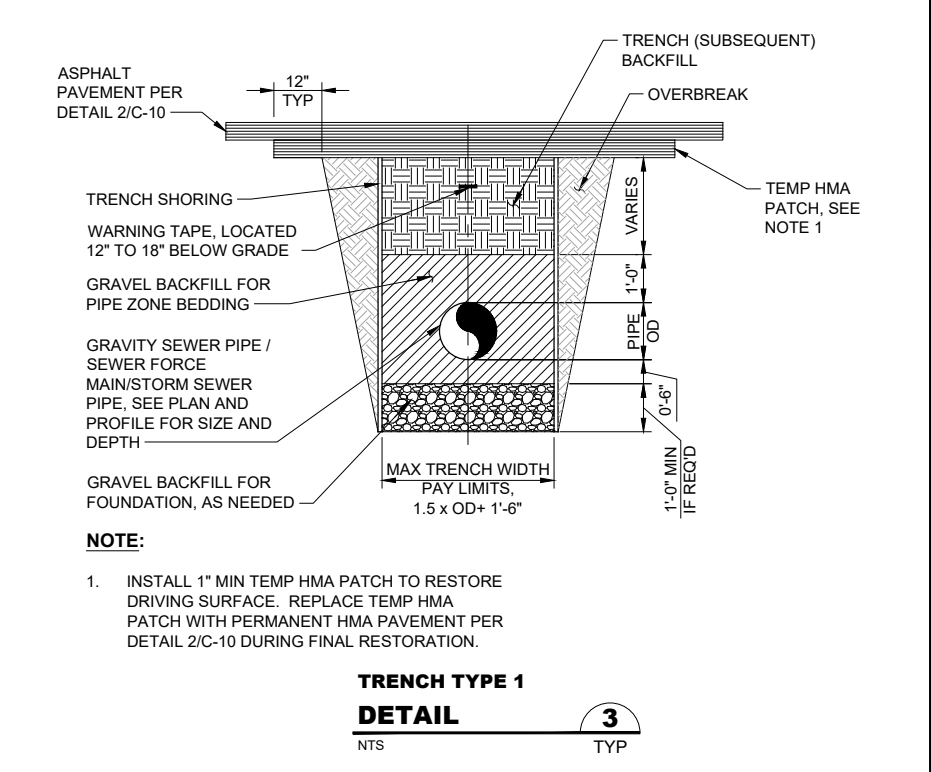
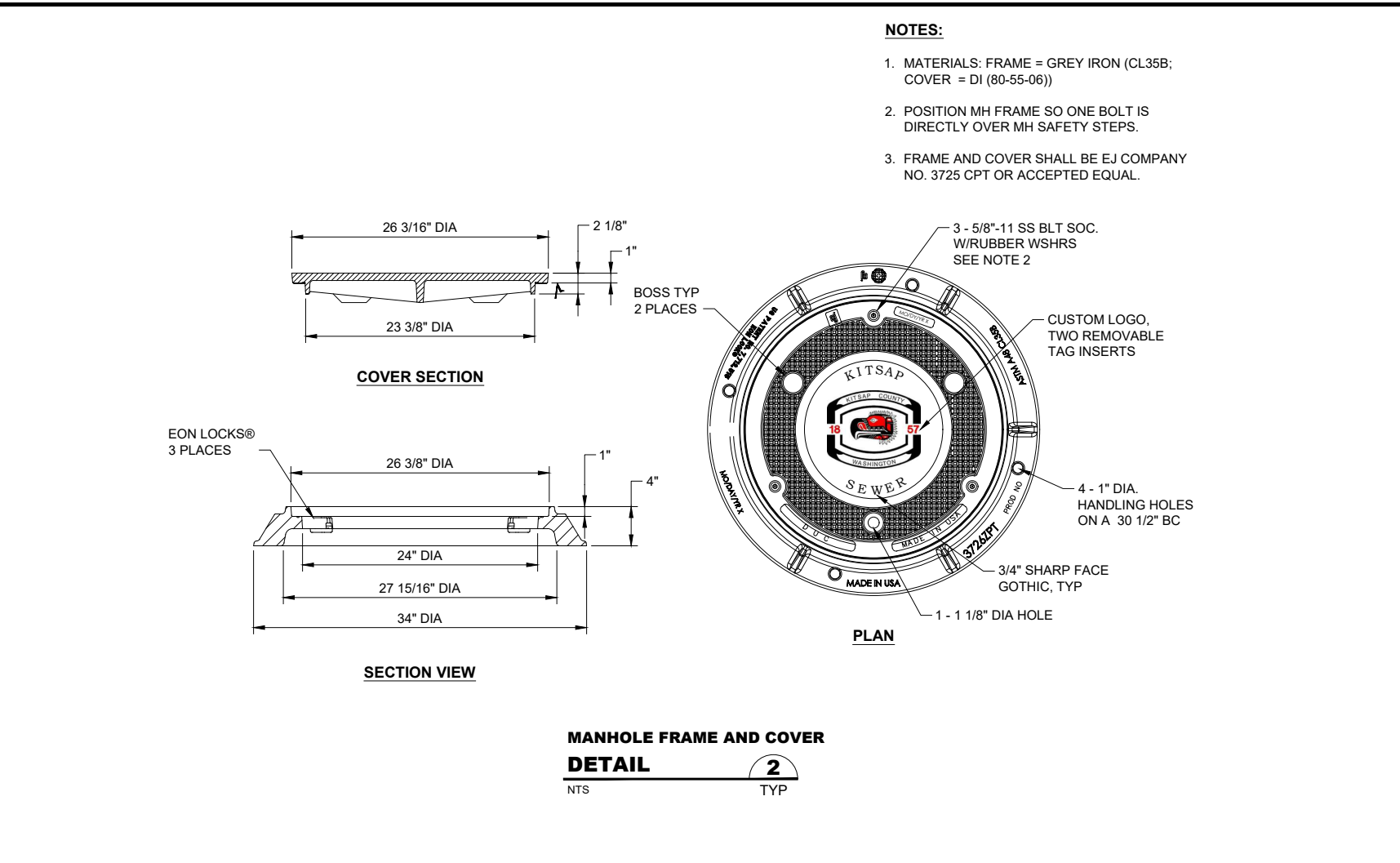
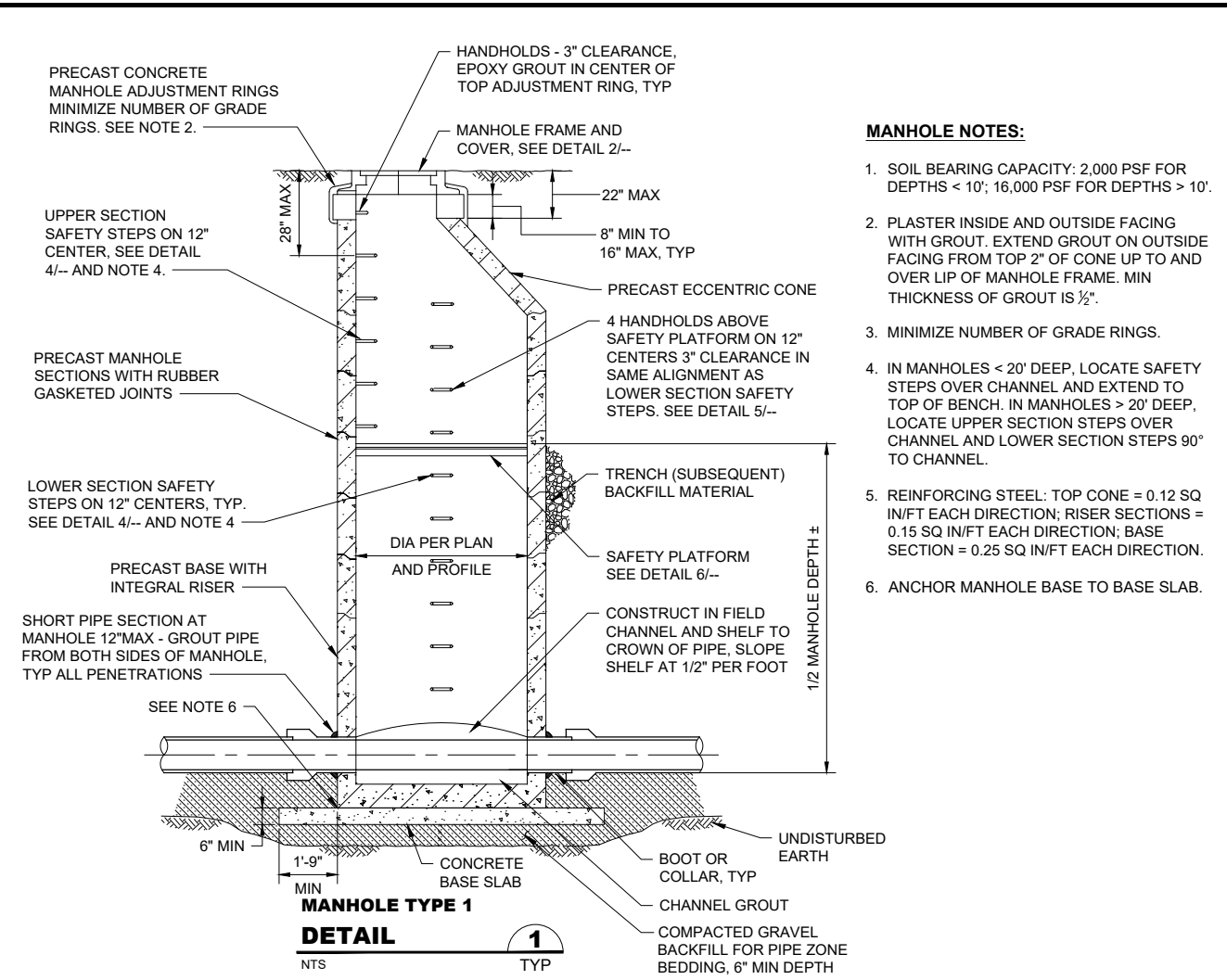
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KITSAP COUNTY PS 16/67 UPGRADES
TESC DETAILS

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Drawing: **C-01**
Sheet: **14** Of **101**
File: 14-P13-10282_C-01
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 Approved: M. Harper, P.E.

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KITSAP COUNTY PS 16/67 UPGRADES

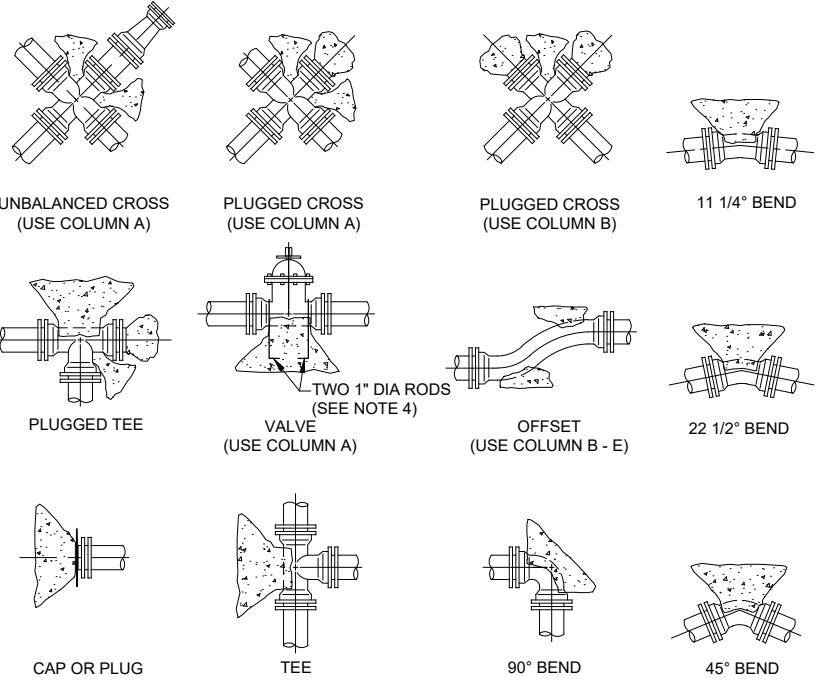
CIVIL AND SITE DETAILS

SHEET 1 OF 4

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Drawing: C-02
 Sheet: 15 of 101
 File: 15-P13-10282_C-02
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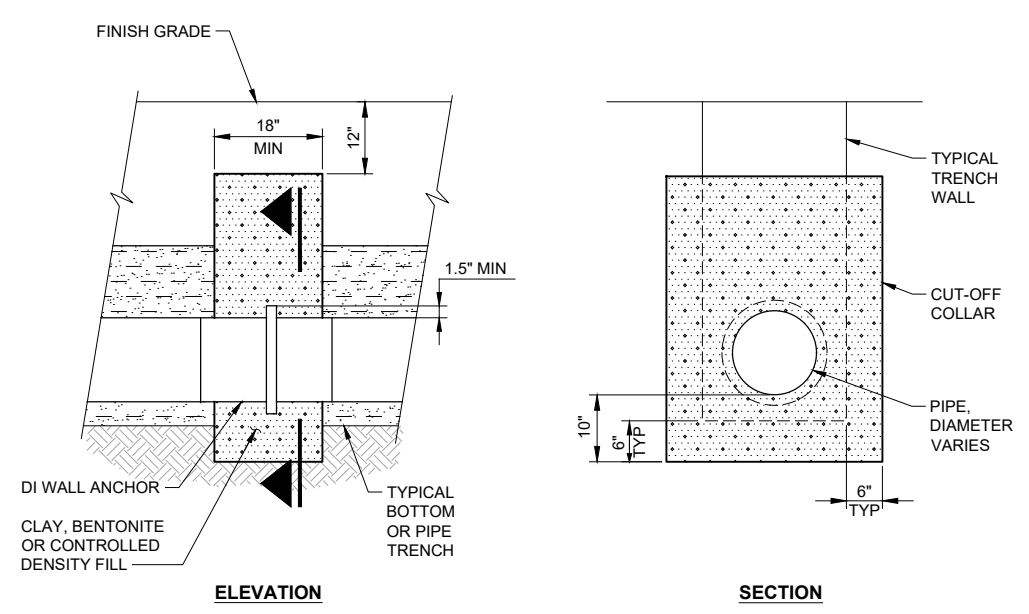
RECORD DRAWING



THRUST AT FITTINGS IN POUNDS								
SIZE	TEST PRESSURE PSI	THRUST AT FITTINGS IN POUNDS					DIA RESTRAINT ROD (IN)	ALLOWABLE THRUST PER RESTRAINT ROD (LBS)
		A	B	C	D	E		
4"	250	3,140	4,440	2,405	1,225	615	5/8"	3,450
6"	250	7,070	9,995	5,410	2,760	1,385	3/4"	5,150
8"	250	12,565	17,770	9,620	4,905	2,465	3/4"	5,150
10"	250	19,635	27,770	15,030	7,660	3,850	7/8"	7,150
12"	250	28,275	39,985	21,640	11,030	5,545	7/8"	7,150
14"	250	38,485	54,425	29,455	15,015	7,545	1"	9,350
16"	250	50,265	71,085	38,470	19,615	9,855	1"	9,350
18"	250	63,620	89,980	48,700	24,820	12,480	1 1/8"	11,800
24"	250	113,100	159,960	86,580	44,120	22,180	1 1/4"	15,000
30"	250	176,720	249,930	135,270	68,940	34,650	1 1/4"	15,000

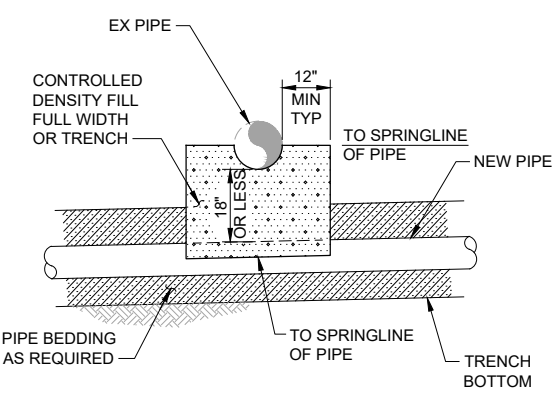
SOIL TYPE	SAFE BEARING LOAD PSF
MUCK, PEAT, ETS.	0
SOFT CLAY	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

- NOTES:**
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
 - DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
 - AREAS TO BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
 - RESTRAINT RODS, NUTS, WASHERS AND APPURTENANCES SHALL BE CONSTRUCTED OF 304 SS. RODS SHALL BE ALL-THREAD DESIGN.
 - JOINTS USING RODS FOR RESTRAINT SHALL NOT EXCEED ALLOWABLE THRUST PER RESTRAINT ROD AS SHOWN IN COLUMN G. IN NO CASE SHALL LESS THAN 2 RODS BE USED.
 - COORDINATE WITH GEOTECHNICAL ENGINEER TO VERIFY SOIL TYPE AT THRUST BLOCK LOCATION PRIOR TO POURING THRUST BLOCK.



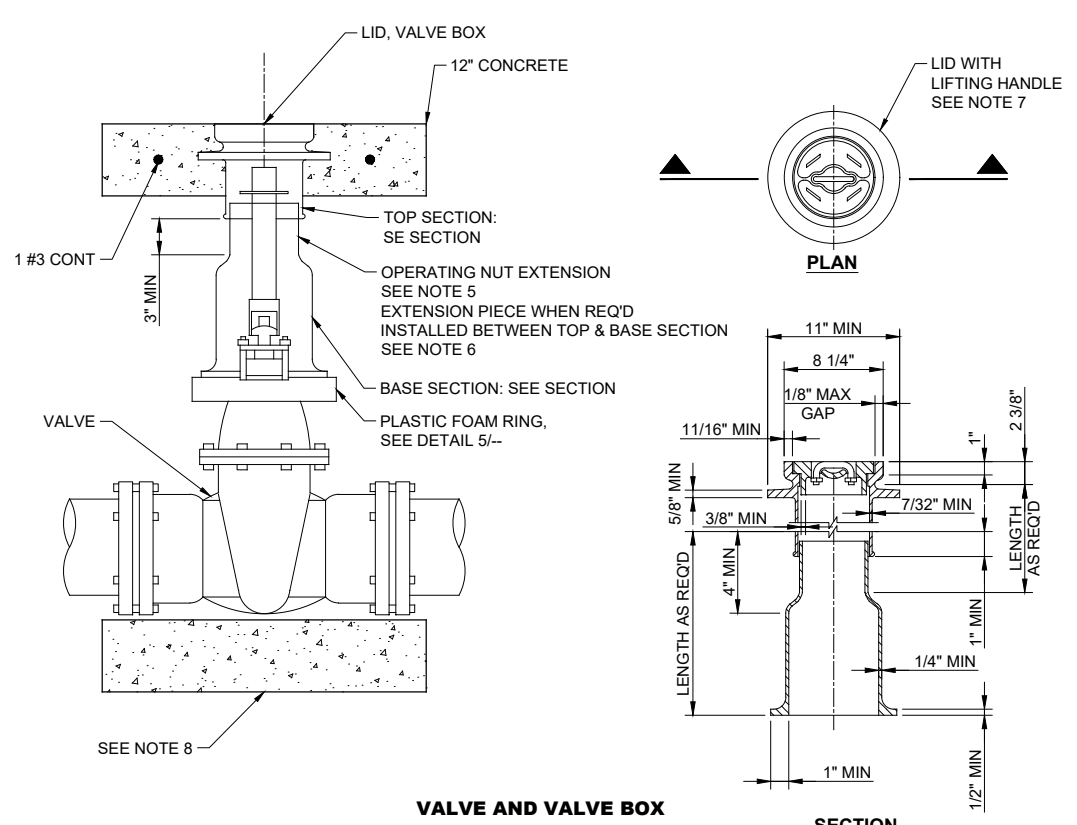
**CONCRETE THRUST BLOCK
DETAIL 1**
NTS TYP

**CUT-OFF COLLAR
DETAIL 2**
NTS TYP



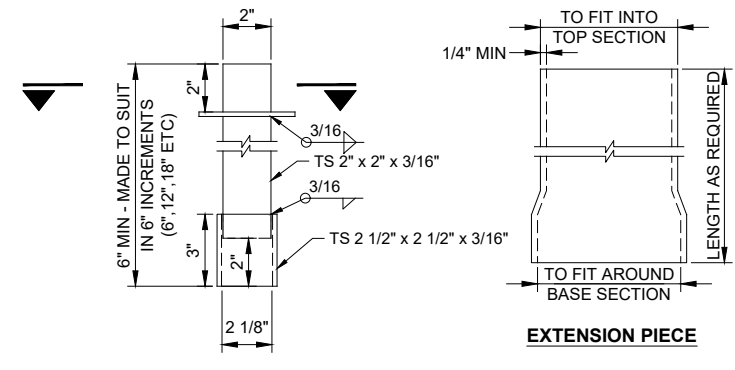
- NOTES:**
- THIS DETAIL APPLIES TO ALL SEWER/UTILITY CROSSINGS WITH LESS THAN 18" OF SEPARATION.
 - PIPE WITH LESS THAN 12" CLEARANCE AT CROSSING SHALL ALSO REQUIRE AN ETHA FOAM CUSHION TO BRIDGE THE GAP ALONG WITH CDF. THE CUSHION SHALL BE CENTERED BETWEEN THE PIPES.
 - WHEN CROSSING UNDER AN EXISTING WATER PIPE NEW PIPE SHALL BE CASED A MINIMUM OF 10" ON EITHER SIDE OF CROSSING PER DETAIL 1/C-23.

**TYPICAL PIPE CROSSING
EXISTING PIPE
DETAIL 3**
NTS TYP

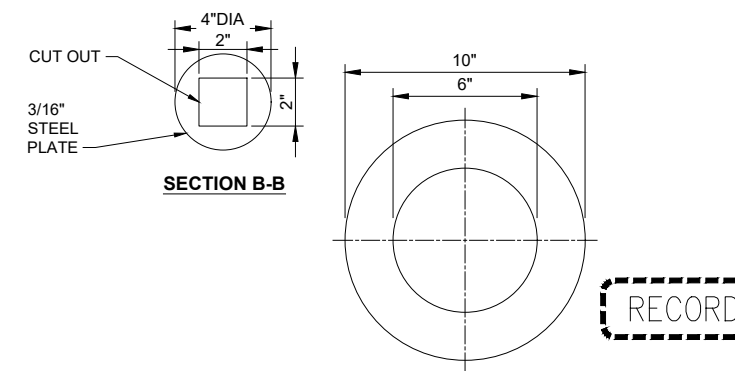


**VALVE AND VALVE BOX
DETAIL 4**
NTS TYP

- NOTES:**
- FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS FOR DELIVERY.
 - CASTINGS AND EXTENSIONS SHALL BE HOT-DIPPED IN ASPHALTIC VARNISH ROYSTON ROSKOTE #612XM OR 2 COATS OF MASTIC ROYSTON INSIDE AND OUT.
 - VALVE BOXES SHALL BE RICH #045: TOP SECTION, LID AND BASE; OR OLYMPIC FOUNDRY: LID #1908-33, TOP SECTION #1106-33, BASE SECTION #1301-33 OR APPROVED EQUAL.
 - ALL CASTINGS SHALL BE DUCTILE OR GREY CAST IRON.
 - AN OPERATING NUT EXTENSION SHALL BE INSTALLED WHEN THE GROUND SURFACE IS MORE THAN 2'-6" ABOVE THE VALVE OPERATING NUT. THE OPERATING NUT EXTENSION SHALL EXTEND INTO THE TOP SECTION OF THE STANDARD VALVE BOX AND SHALL CLEAR THE BOTTOM OF THE LID BY 6" MIN.
 - EXTENSION PIECES (WHEN USED) SHALL CONFORM TO MINIMUM THICKNESS REQUIREMENTS AND SHALL FIT INTO THE TOP SECTION AND OVER THE BOTTOM SECTION.
 - LID SHALL BE STAMPED "SEWER".
 - PLACE 16" - 24" GATE VALVES ON CONCRETE PAD (12" D x 24" W x 24" L).



**OPERATING NUT EXTENSION
DETAIL 5**
NTS TYP



**PLASTIC FOAM RING
DETAIL 5**
NTS TYP

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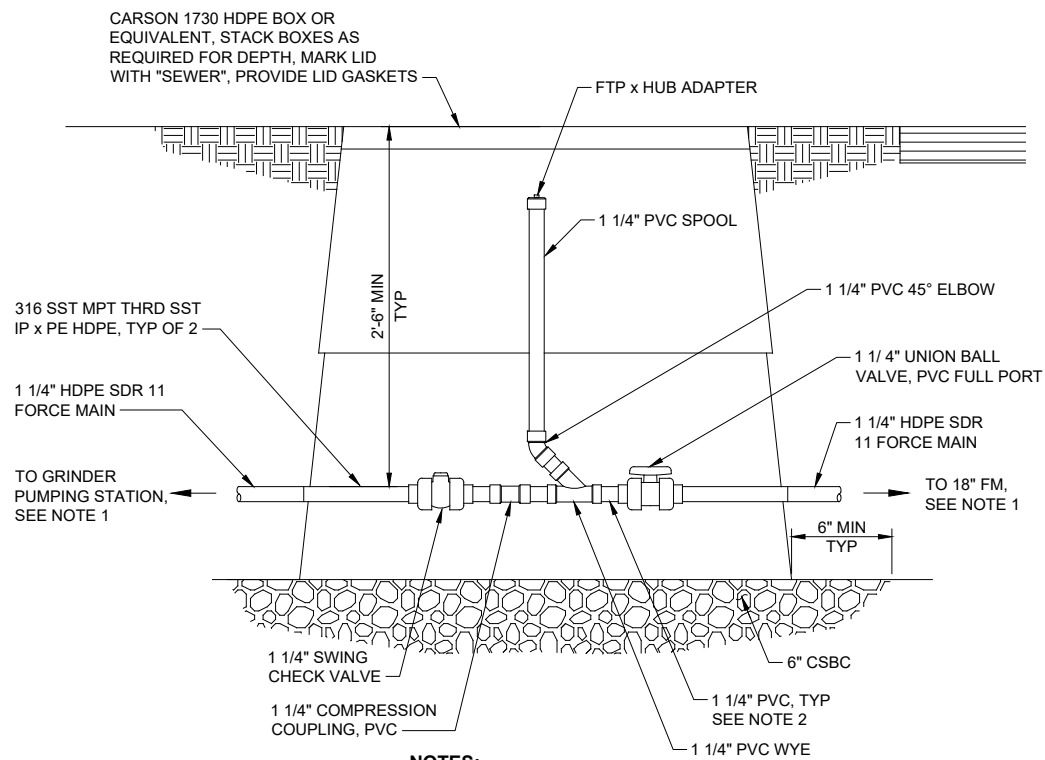
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Drawn: P. Simon
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Approved: M. Harper, P.E.
Scale: As Shown
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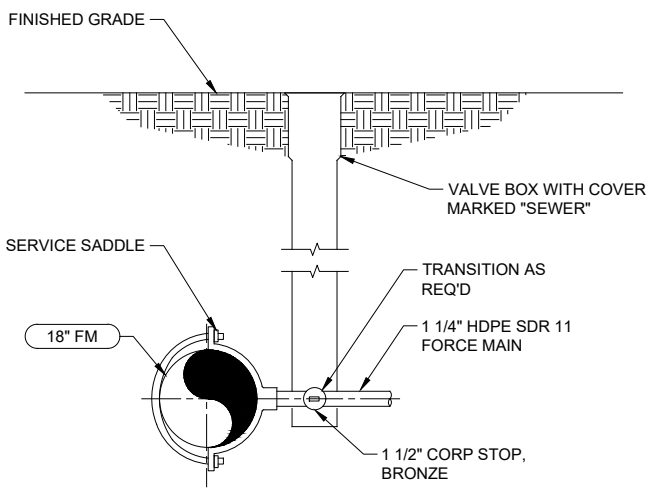
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CIVIL AND SITE DETAILS
SHEET 2 OF 4

Drawing: **C-03**
Sheet: **16** Of **101**
File: 16-P13-10282_C-03
Date: February 2017



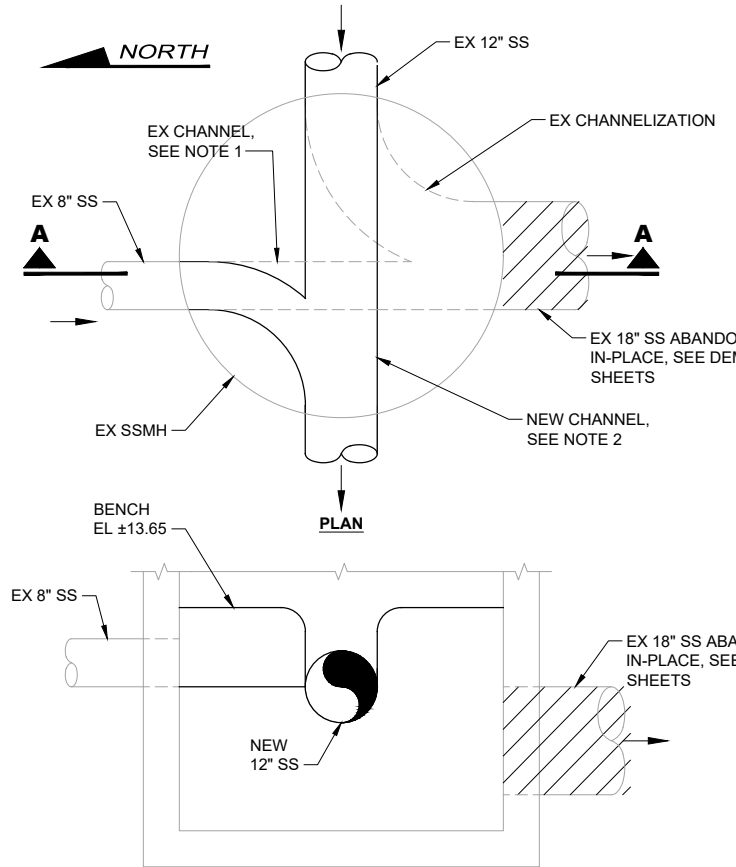
- NOTES:**
- SEE CIVIL DRAWINGS FOR CONTINUATION.
 - ALL PVC SHALL BE SCH 80.

VALVE BOX @ PROPERTY LINE OR EDGE OF PAVEMENT
DETAIL 1
NTS TYP



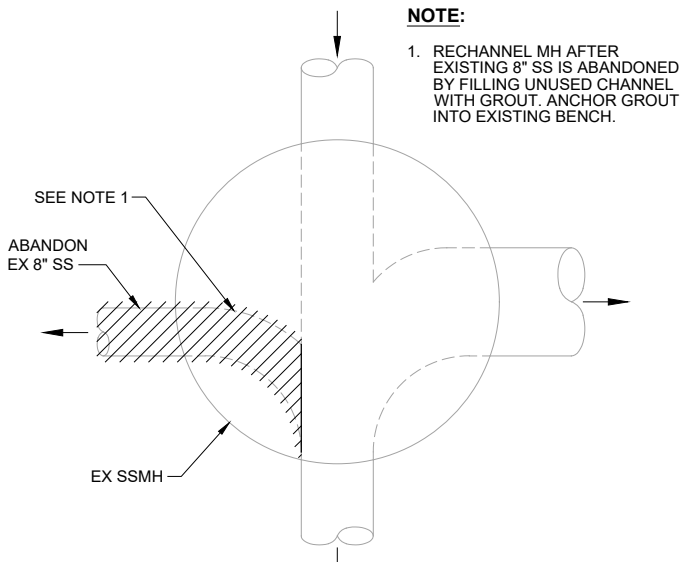
- NOTE:**
- NO PROTRUSIONS INTO BARREL OF THE FORCE MAIN WILL BE ACCEPTABLE.

IPS FORCE MAIN CONNECTION
DETAIL 2
NTS TYP



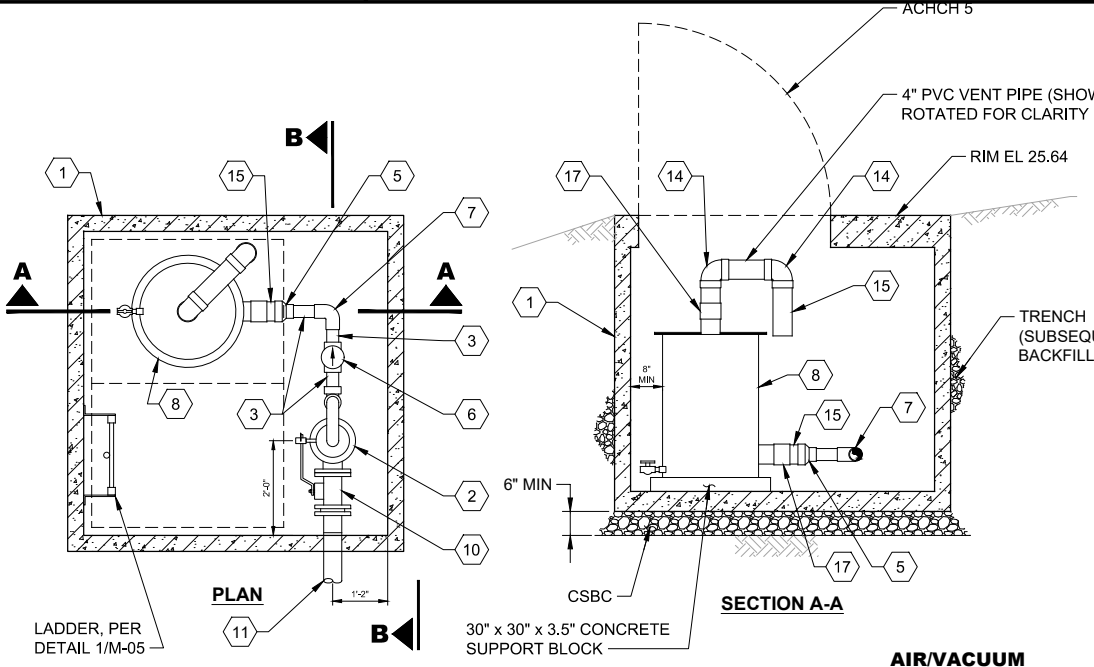
- NOTES:**
- REMOVE EX CHANNELS AND BENCH, BYPASSING SEWER FLOWS AS NEEDED.
 - CONSTRUCT NEW BENCH AND CHANNELS TO MEET REVISED ALIGNMENT. TOP OF BENCH TO MATCH CROWN OF EXISTING 18" SS.

RE-CHANNELIZATION OF MANHOLE G21-2040
DETAIL 3
NTS C-22



- NOTE:**
- RECHANNEL MH AFTER EXISTING 8" SS IS ABANDONED BY FILLING UNUSED CHANNEL WITH GROUT. ANCHOR GROUT INTO EXISTING BENCH.

RE-CHANNELIZATION OF MANHOLE G21-2039
DETAIL 4
NTS C-22



- NOTE:**
- RESTRAIN ALL MJ JOINTS, SEE SPECIFICATION FOR RESTRAINT REQUIREMENTS.

- AIR/VACUUM VAULT ASSEMBLY COMPONENTS:**
- PRECAST AIR/VACUUM VAULT
 - 4" COMBINATION AIR VALVE
 - 3" SCHEDULE 80 PVC NIPPLE
 - 3" SCHEDULE 80 PVC UNION COUPLING
 - 4" x 3" SCHEDULE 80 REDUCER
 - 3" CHECK VALVE (ORIENT AS SHOWN FOR FLOW DIRECTION)
 - 3" SCHEDULE 80 PVC 90° BEND
 - ODOR CONTROL CARBON FILTER CANISTER
 - 4" 316 SST 90° BEND, FL x FL
 - 4" 316 SST BALL VALVE, FL x FL
 - 4" SDR 11 IPS HDPE PIPE
 - ADJUSTABLE PIPE SUPPORT, SEE DETAIL 1/M-01
 - 3" FLEXIBLE HOSE
 - 4" SCHEDULE 80 PVC 90° BEND
 - 4" SCHEDULE 80 PVC NIPPLE
 - 4" SDR 11 IPS HDPE FLANGE ADAPTOR WITH STAINLESS STEEL BACKUP RING
 - 4" FERNCO COUPLING
 - PIPE SLEEVE WITH MODULAR MECHANICAL SEAL, SEE DETAIL 4/M-01

AIR/VACUUM VAULT ASSEMBLY
DETAIL 5
NTS C-201

RECORD DRAWING

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UNDERGROUND SERVICE

FILE NAME: (UPDATED BY) APR 23 2016 10:23:57
 C:\P\WORKING\SEA\10050325\17-P13-10282-C-04.DWG (CSC)
 XREFS: Disclaimer, Fisher, Kitesap_IB

No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

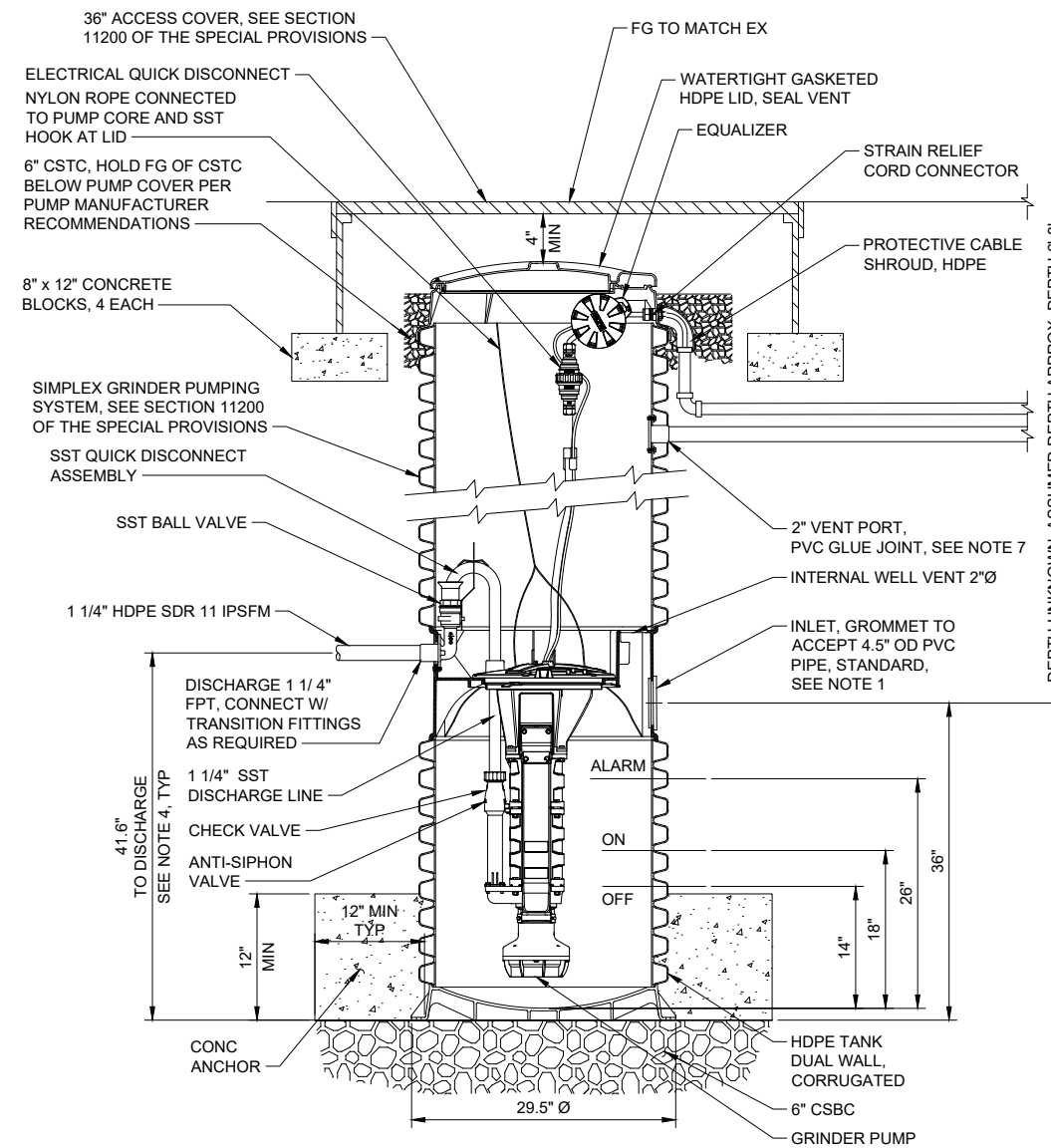
BHC CONSULTANTS
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhcconsultants.com

Designed: T. Fisher, P.E.
Drawn: P. Simon
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.
Scale: As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly

KITSAP COUNTY
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

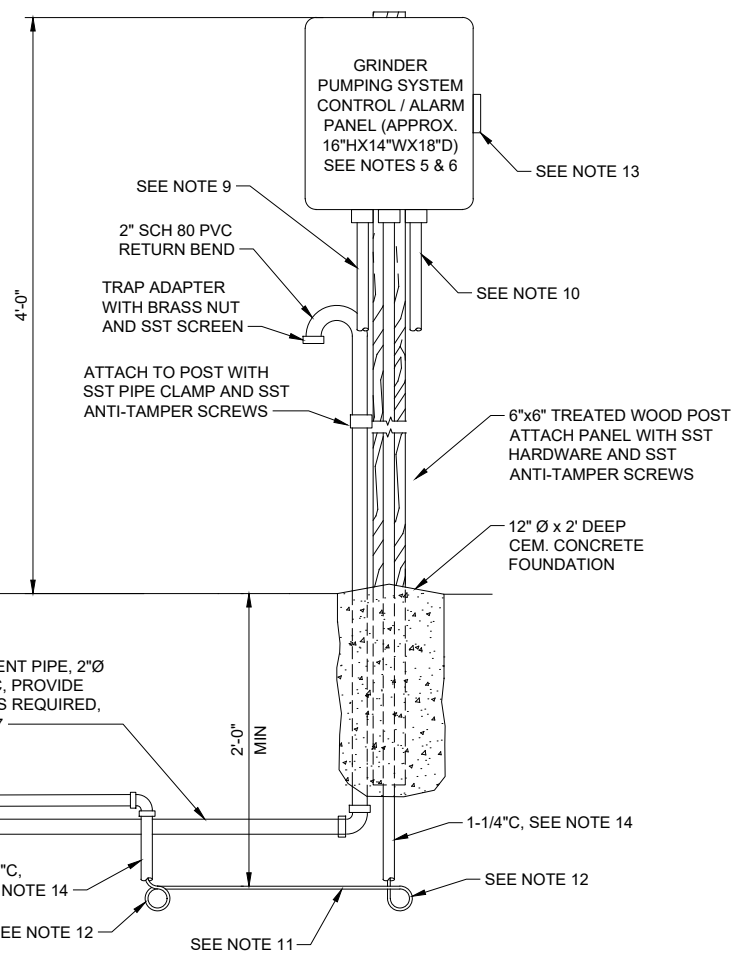
KITSAP COUNTY PS 16/67 UPGRADES
CIVIL AND SITE DETAILS
SHEET 3 OF 4

Drawing: **C-04**
Sheet: **17** Of **101**
File: 17-P13-10282_C-04
Date: February 2017

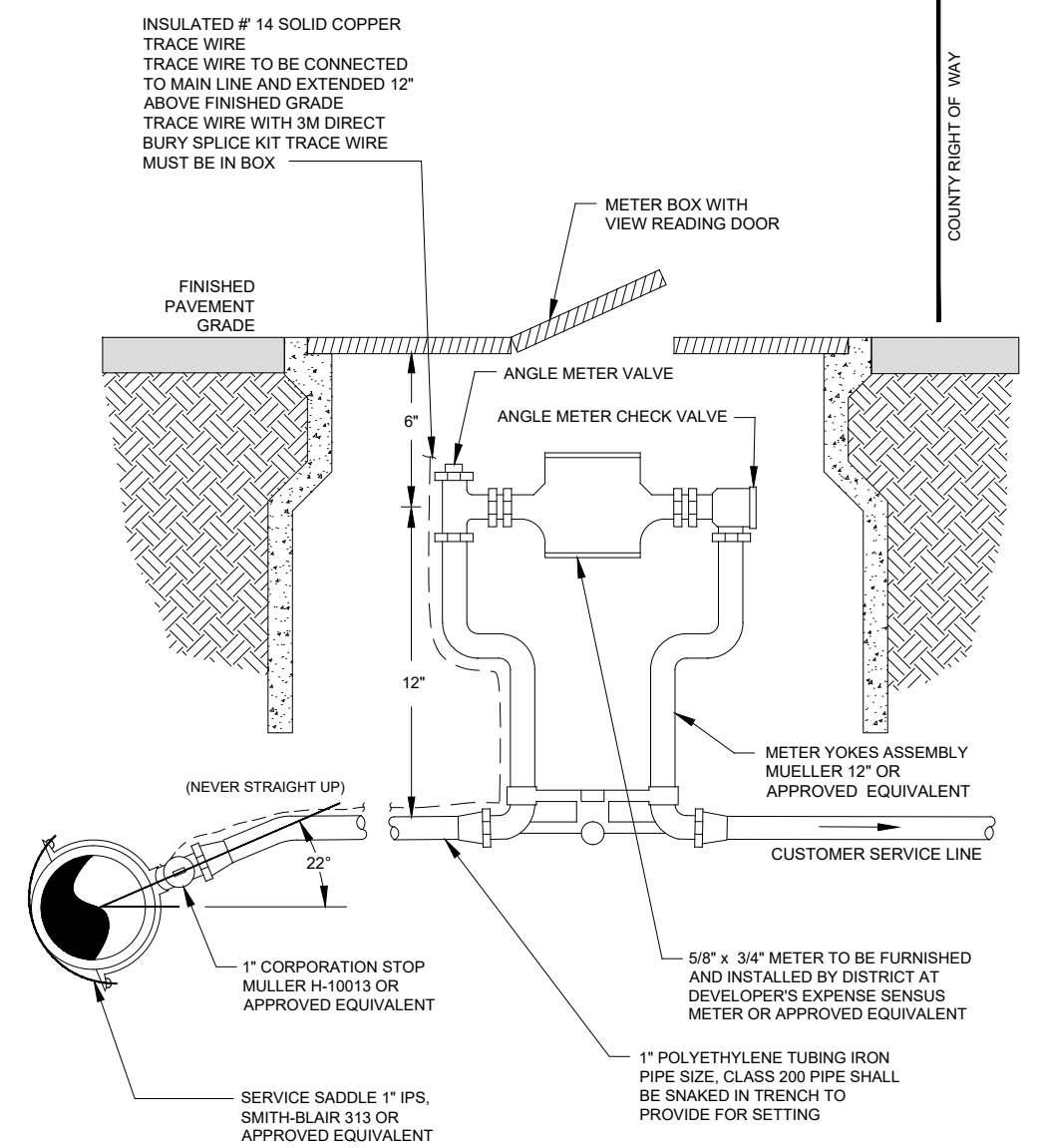


SIMPLEX GRINDER PUMP SYSTEM

DETAIL 1
NTS C-22A



- NOTES:**
1. PROVIDE SCH 40 PVC PIPE, REDUCER, AND TRANSITION FITTINGS AS REQUIRED TO CONNECT TO EXISTING LATERAL. LATERAL NOT SHOWN FOR CLARITY.
 2. CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING LATERAL PRIOR TO PROCURING MATERIALS AND SHALL INDICATE LATERAL DEPTH ON EQUIPMENT SUBMITTAL.
 3. PROVIDE 4" MIN CLEARANCE FROM CONCRETE BLOCKS.
 4. DIMENSIONS GIVEN ARE PER SPECIFIED PUMP MANUFACTURER. ADJUST PER APPROVED ALTERNATE AS REQUIRED.
 5. COORDINATE LOCATION OF CONTROL / ALARM PANEL WITH CONSTRUCTION MANAGER.
 6. PROVIDE ALL CONDUIT, WIRING, AND OTHER APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION IN PLACE, APPROVED AND READY FOR USE.
 7. VENT PIPE AND FITTINGS SHALL BE SOLVENT WELD. PROVIDE 4" MIN CLEARANCE FROM CONCRETE BLOCKS.
 8. INSTALL GRINDER PUMPING SYSTEM AS SHOWN AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
 9. TO 30A, 2-POLE CIRCUIT BREAKER, 120/240V, 1Ø POWER SOURCE LOCATED IN HOME OWNER'S SUPPLY PANEL (1-1/4"C, 3#10, 1#10G). IF NECESSARY, MAKE PROVISIONS IN PANEL OR PROVIDE NEW SUB PANEL TO ACCOMMODATE NEW 30A, 2-POLE BREAKER.
 10. TO REMOTE INDOOR ALARM MODULE WITH BATTERY BACKUP LOCATED AT HOME OWNER'S RESIDENCE. COORDINATE LOCATION WITH CONSTRUCTION MANAGER (3/4"C, 2) TSP#18 INCLUDING 1 SPARE)
 11. DIRECT BURIED VENDOR SUPPLIED 6 CONDUCTOR POWER /ALARM CABLE
 12. ALLOW 6" TO 12" INCH LOOP OF CABLE AT EACH END TO ALLOW FOR SHIFTING AND SETTLING
 13. GENERATOR RECEPTACLE
 14. CONDUIT STOPS BEFORE LOOP



- NOTES:**
1. THE DISTRICT'S RESPONSIBILITY "ENDS" AT THE METER BOX.
 2. PROPERTIES THAT HAVE PLANS FOR HOUSE FIRE SPRINKLERS, MUST BE SINGLE SERVICE CONNECTIONS WITH 1" SITTERS.
 3. TRAFFIC LOCATIONS: CARSON MSBCF 1118-12 PLASTIC BOX OR EQUIVALENT, DUCTILE IRON LID WITH VIEW READING DOOR FOR NON-PRV APPLICATIONS. CARSON MSBCF 1324-12 PLASTIC BOX OR EQUIVALENT, DUCTILE IRON LID WITH METER READING LID FOR PRV APPLICATIONS. METER BOXES MUST HAVE A 1-3/4" DRILLED HOLE IN A CORNER OR TOUCH PAD ADAPTOR (NOT TO INTERFERE WITH METER OR PRV).
 4. UNON-TRAFFIC LOCATIONS: CARSON 1419-12 PLASTIC BOX OR EQUIVALENT, PLASTIC LID WITH METER READING DOOR FOR PRV & NON PRV APPLICATIONS. METER BOXES MUST HAVE A 1-3/4" DRILLED HOLE IN A CORNER OR TOUCH PAD ADAPTOR (NOT TO INTERFERE WITH METER OR PRV).

SINGLE SERVICE WATER METER CONNECTION

DETAIL 2
NTS C-38

FILE NAME (UPDATED BY) DATE DATE & TIME
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No.	Revision	Date	By	App'd



Designed: T. Fisher, P.E.
 Drawn: S. Olsoe
 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

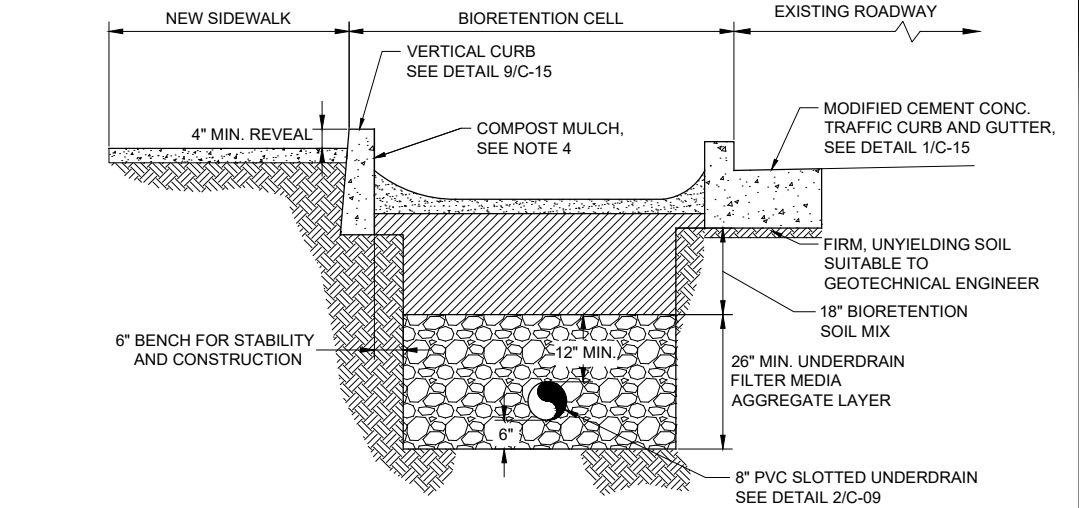
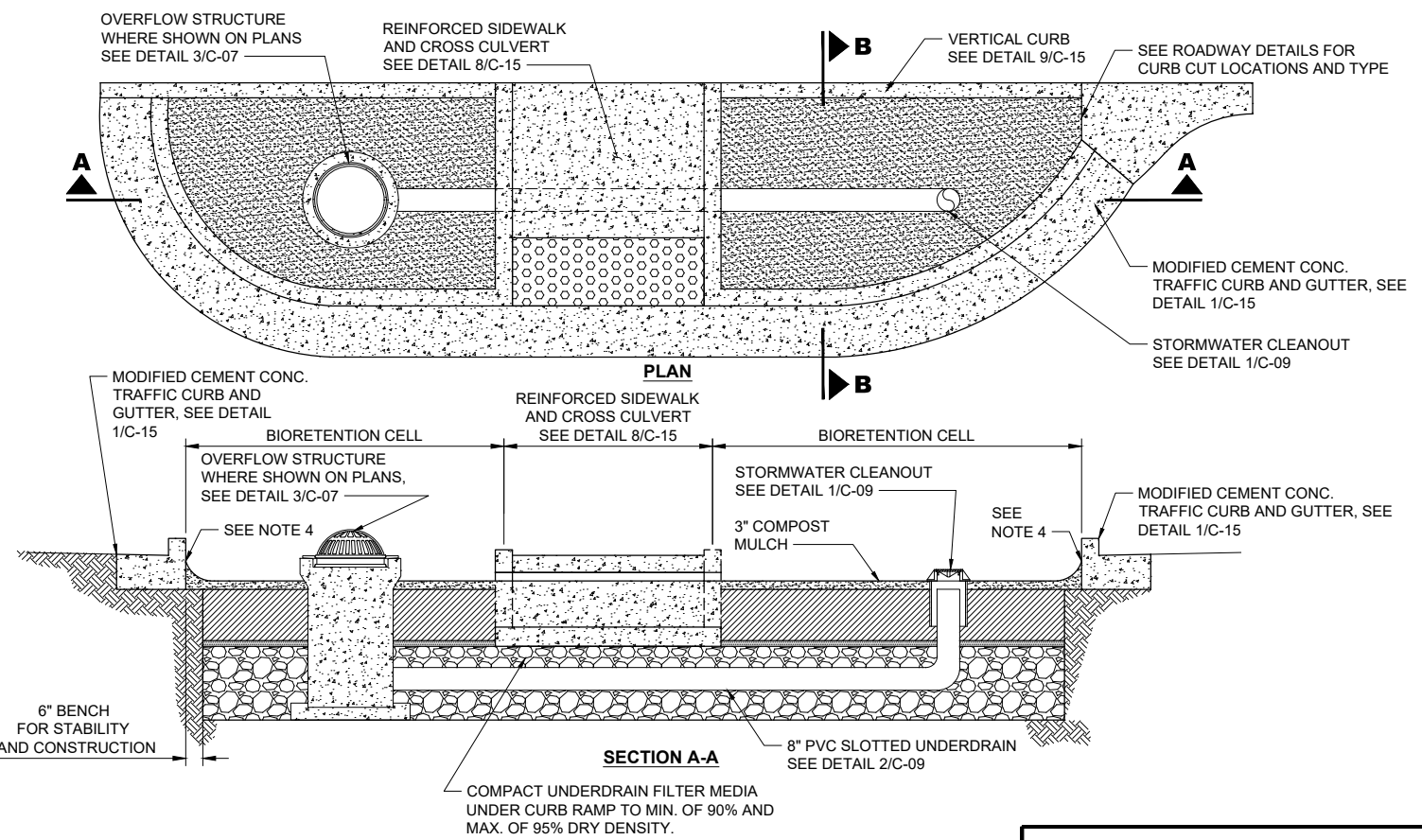
KITSAP COUNTY PS 16/67 UPGRADES
CIVIL AND SITE DETAILS
SHEET 4 OF 4

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Drawing: **C-05**
 Sheet: **18** Of **101**
 File: 18-P13-10282_C-05
 Date: February 2017

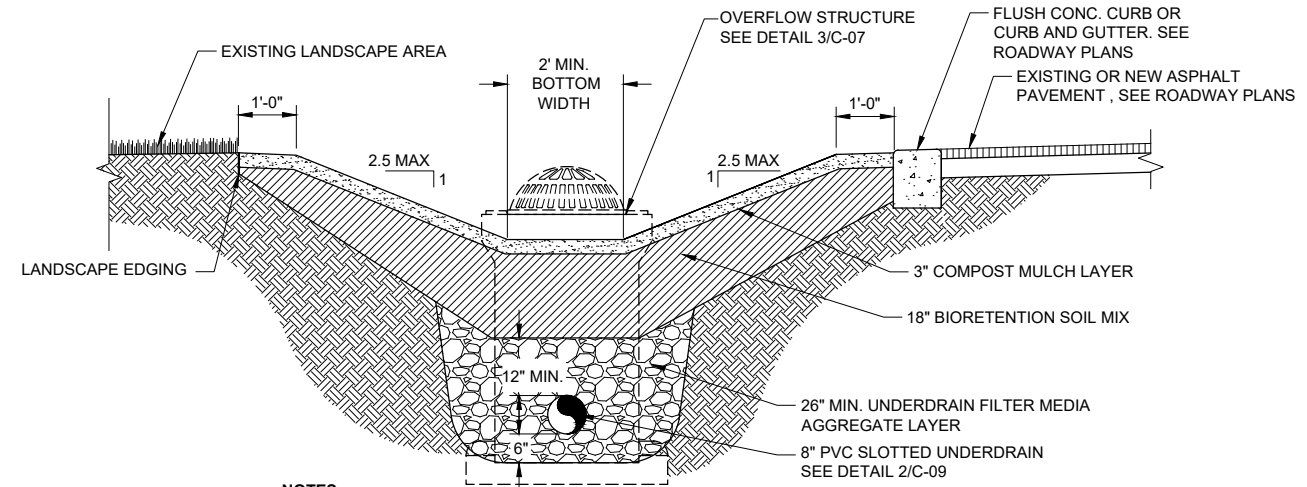
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NOTES:

- A QUALIFIED GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATED TRENCH TO DETERMINE IF PERMEABLE TRENCH BACKFILL IS PRESENT, WHICH IS DEFINED AS ANY MATERIAL WITH LESS THAN 15% PASSING THE #200 SIEVE.
- WHERE EXISTING PERMEABLE TRENCH BACKFILL IS ENCOUNTERED WITHIN THE BIORETENTION SWALE EXCAVATION, THE MATERIAL SHALL BE OVER EXCAVATED TO A MINIMUM DEPTH OF 1' WITH 1:1 SIDE SLOPES AND BACKFILLED WITH SUITABLE LOW PERMEABLE MATERIAL OR IMPERMEABLE PLASTIC LINER SHALL BE INSTALLED AS APPROVED BY THE GEOTECHNICAL ENGINEER.
- SEE LANDSCAPING PLANS FOR BIORETENTION PLANTINGS.
- MOUND MULCH TO 2" BELOW TOP OF SIDEWALK ELEVATION OR GUTTER LINE ELEVATION ALONG INSIDE EDGE OF CURB. DO NOT BLOCK CROSS CULVERT OPENING, OVERFLOW STRUCTURE OR CURB CUTS.

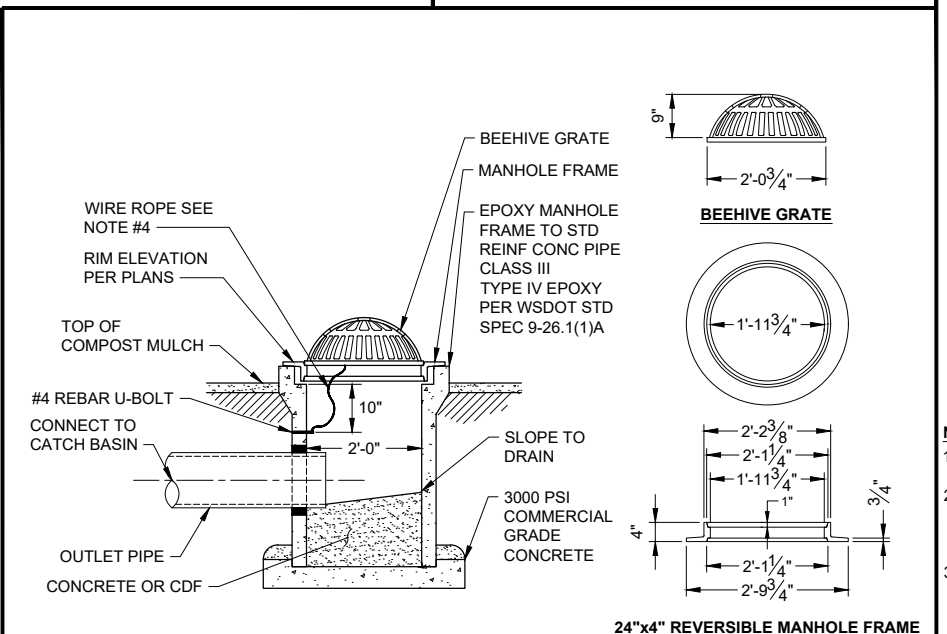
**TYPICAL BIORETENTION CELL
 DETAIL**
 NTS TYP 1



NOTES:

- A QUALIFIED GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATED TRENCH TO DETERMINE IF PERMEABLE TRENCH BACKFILL IS PRESENT, WHICH IS DEFINED AS ANY MATERIAL WITH LESS THAN 15% PASSING THE #200 SIEVE.
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- SEE LANDSCAPING PLANS FOR BIORETENTION PLANTINGS.

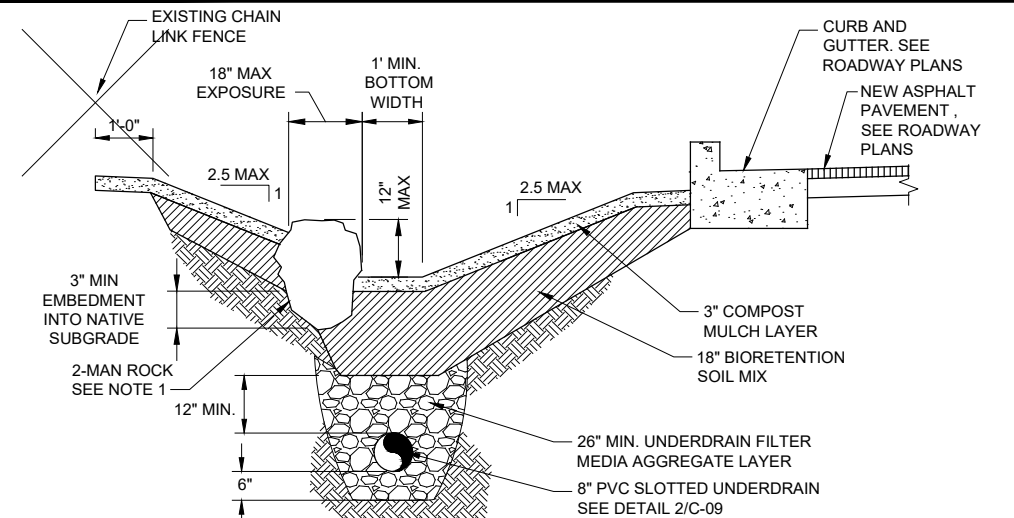
**TYPICAL BIORETENTION SWALE
 CROSS SECTION
 DETAIL**
 NTS TYP 2



NOTES:

- SECURE GRATE IN PLACE WITH 54-INCHES OF WIRE ROPE. LOOP ENDS OF WIRE ROPE AROUND U-BOLT AND GRATE. CRIMP EACH END OF WIRE ROPE WITH 3" OVERLAP.
- DRILL 2" DEEP HOLES INTO PIPE AND EPOXY #4 REBAR U-BOLT (2"x4") IN HOLES.
- GRATE TO BE CAST IRON, ASTM A48 CL30.
- WIRE ROPE TO BE 1/8" - 3/16" STAINLESS STEEL, 7 STRANDS OF 19 WIRES.

**OVERFLOW STRUCTURE
 DETAIL**
 NTS TYP 3



NOTES:

- A 2-MAN ROCK HAS AN AVERAGE DIAMETER OF 18" TO 28" (200 TO 700 LB). PER WSDOT 9-13.7(1).
- A QUALIFIED GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATED TRENCH TO DETERMINE IF PERMEABLE TRENCH BACKFILL IS PRESENT, WHICH IS DEFINED AS ANY MATERIAL WITH LESS THAN 15% PASSING THE #200 SIEVE.
- WHERE EXISTING PERMEABLE TRENCH BACKFILL IS ENCOUNTERED WITHIN THE BIORETENTION SWALE EXCAVATION, THE MATERIAL SHALL BE OVER EXCAVATED TO A MINIMUM DEPTH OF 1' WITH 1:1 SIDE SLOPES AND BACKFILLED WITH SUITABLE LOW PERMEABLE MATERIAL OR IMPERMEABLE PLASTIC LINER SHALL BE INSTALLED AS APPROVED BY THE GEOTECHNICAL ENGINEER.
- SEE LANDSCAPING PLANS FOR BIORETENTION PLANTINGS.

**MODIFIED BIORETENTION SWALE
 CROSS SECTION
 DETAIL**
 NTS TYP 4

RECORD DRAWING

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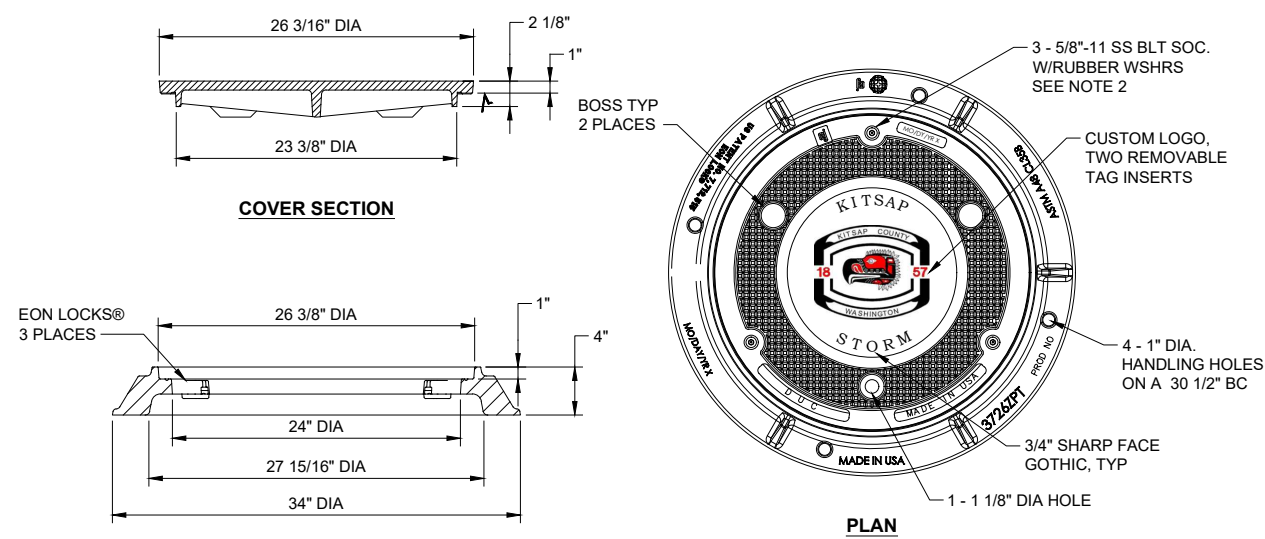
Designed: J. ERICKSON, P.E.
 Drawn: W. NEWELL
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.
 Scale: NTS
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



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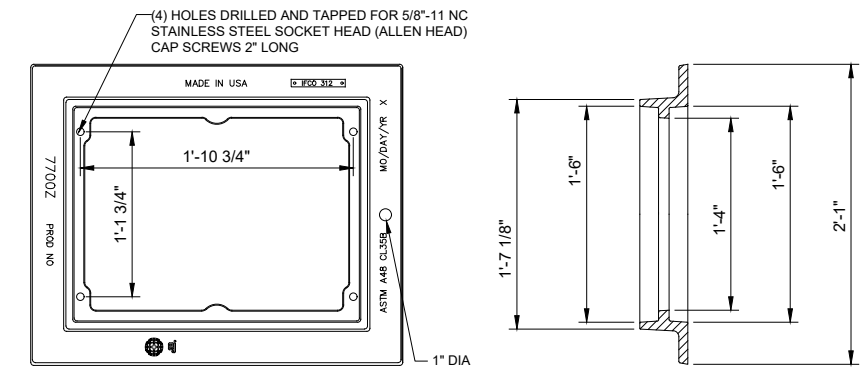
KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER DETAILS
SHEET 1 OF 3

Drawing: **C-07**
 Sheet: 19 of 101
 File: 19-P13-10282_C-07
 Date: February 2017

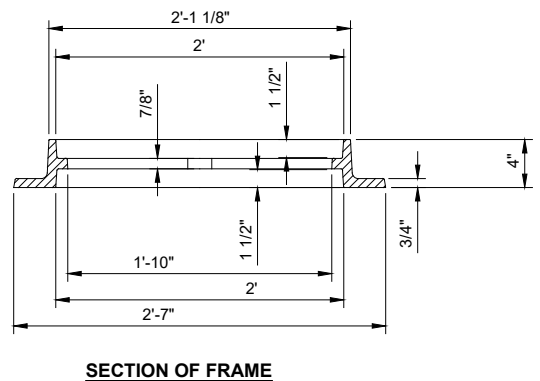


- NOTES:**
1. MATERIALS: FRAME = GRAY IRON (CL35B); LID = DI (80-55-06)
 2. POSITION MH FRAME SO ONE BOLT IS DIRECTLY OVER MH SAFETY STEPS.
 3. FRAME AND LID SHALL BE EJ COMPANY NO. 3725 CPT OR ACCEPTED EQUAL.

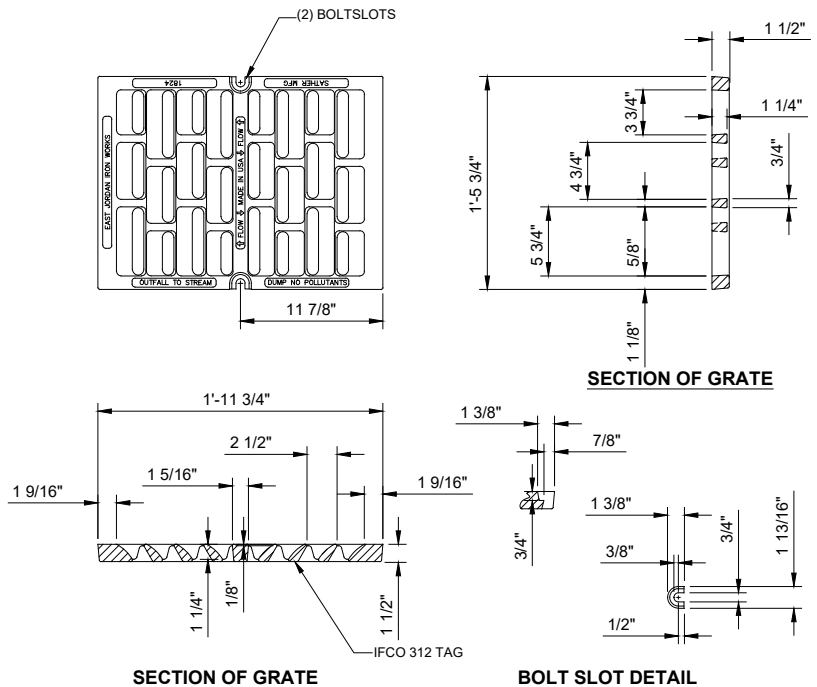
**SOLID LID AND CATCH BASIN FRAME
DETAIL**
NTS TYP



- NOTES:**
1. MATERIALS: GRAY IRON (CL35B)

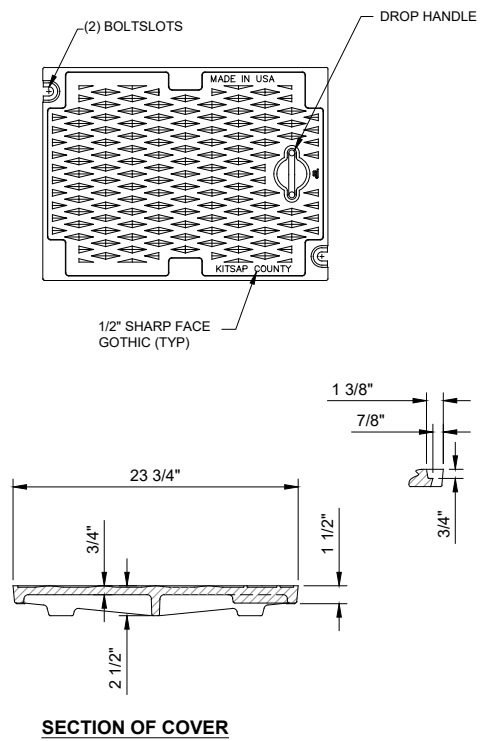
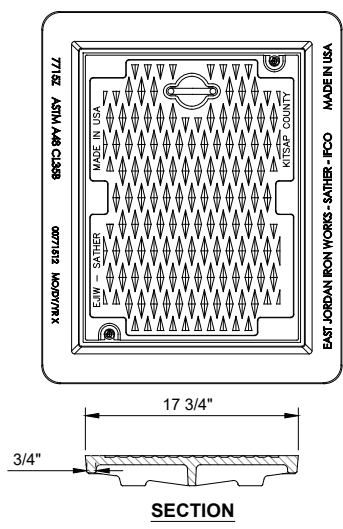


**CATCH BASIN FRAME
DETAIL**
NTS TYP



- NOTES:**
1. MATERIALS: DI (80-50-06)

**CATCH BASIN VANED GRATE
DETAIL**
NTS TYP



- NOTES:**
1. MATERIALS: 101 (80-50-06)

**CATCH BASIN SOLID LID
DETAIL**
NTS TYP

FILE NAME (UPDATED BY) PLOT DATE & TIME
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Designed: J. ERICKSON, P.E.
Drawn: W. NEWELL
Checked: J. BROWN, P.E.
Approved: R. KIRSCHBAUM, P.E.
Scale: NTS
One Inch At Full Scale
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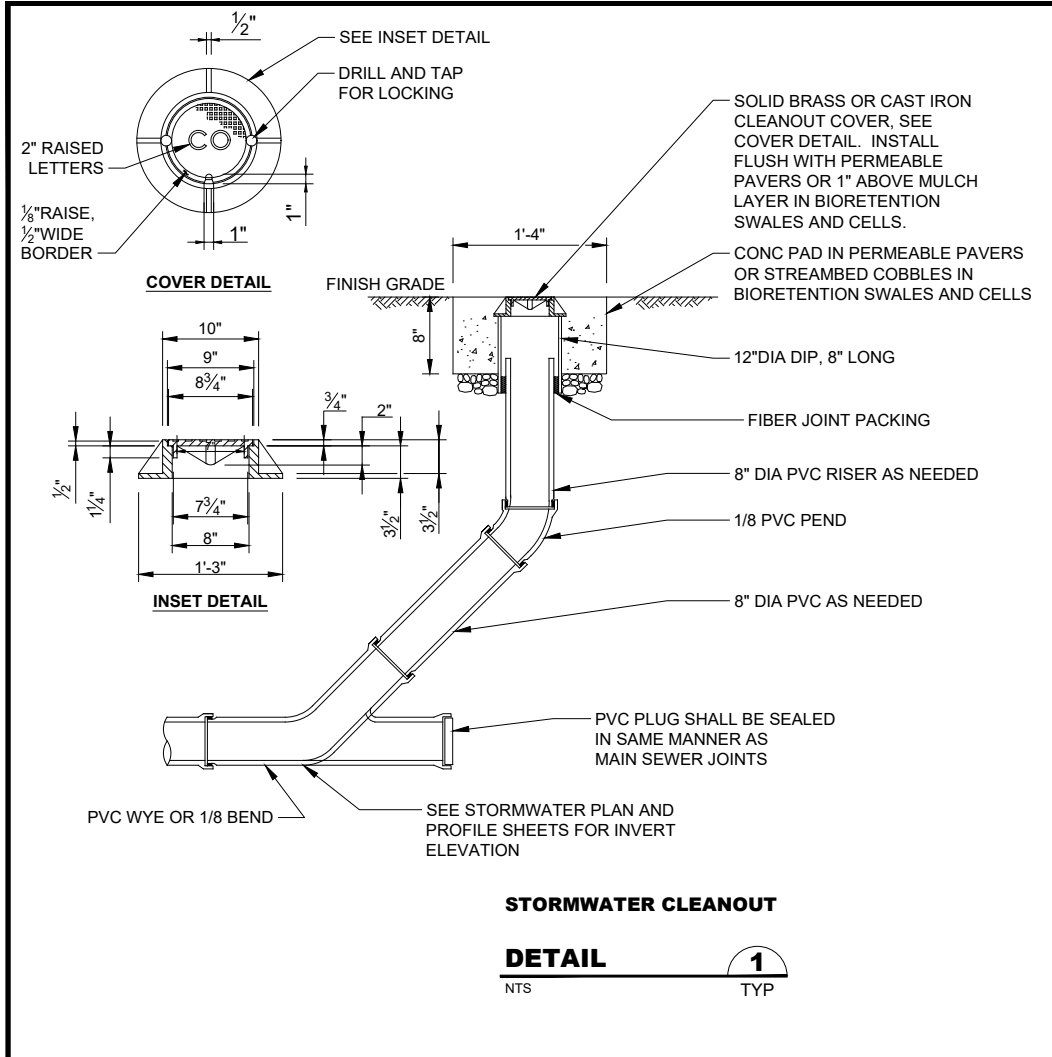


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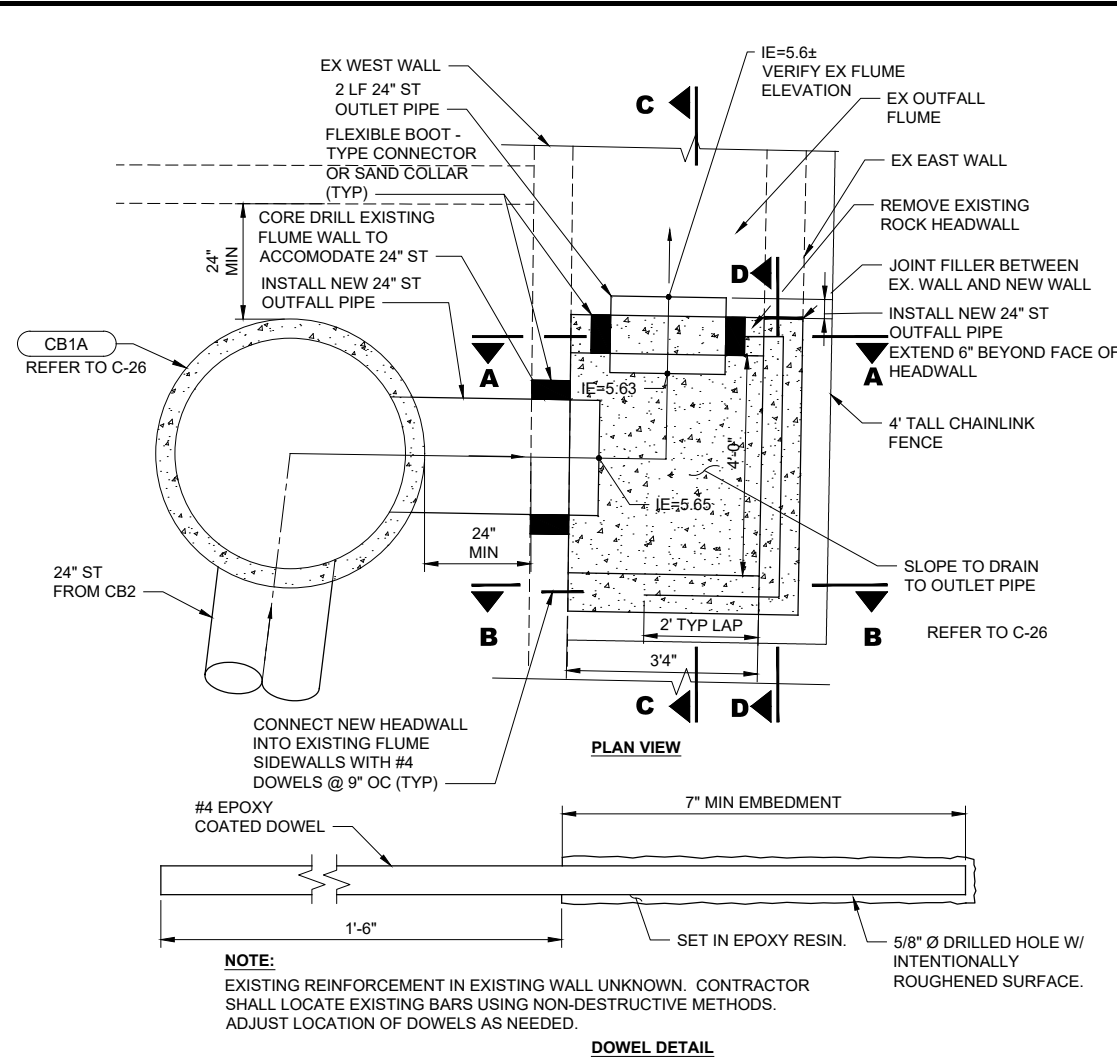
KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER DETAILS
SHEET 2 OF 3

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Drawing: **C-08**
Sheet: **20** Of **101**
File: 20-P13-10282_C-08
Date: February 2017

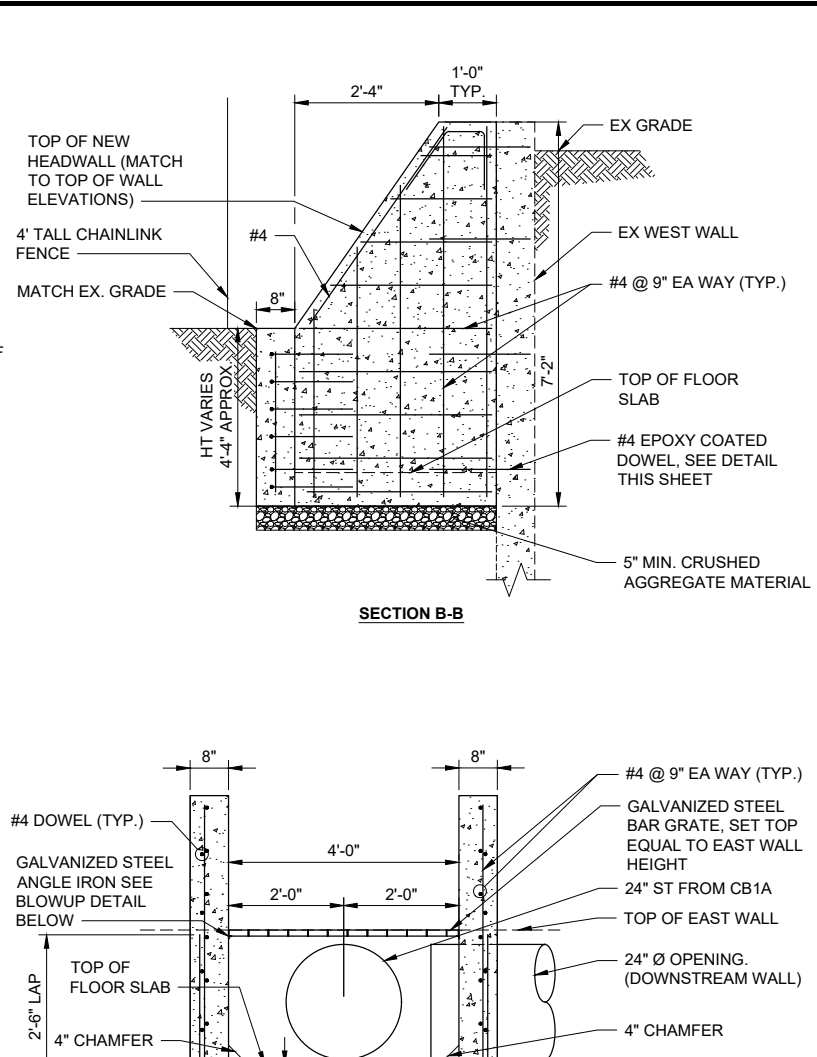




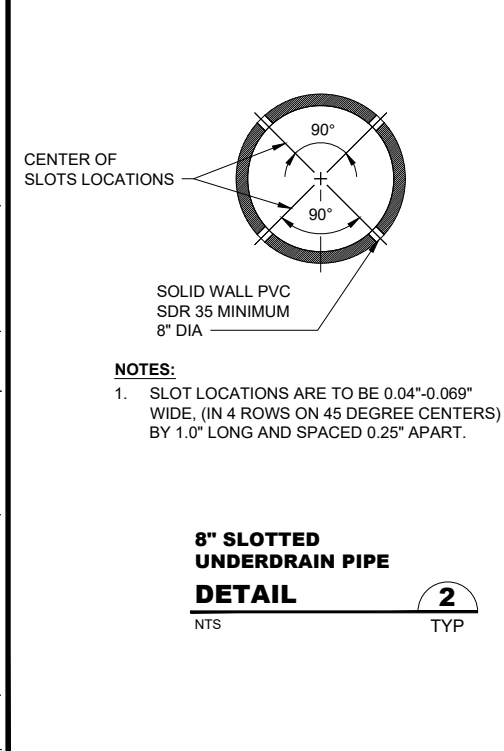
STORMWATER CLEANOUT
DETAIL 1
NTS TYP



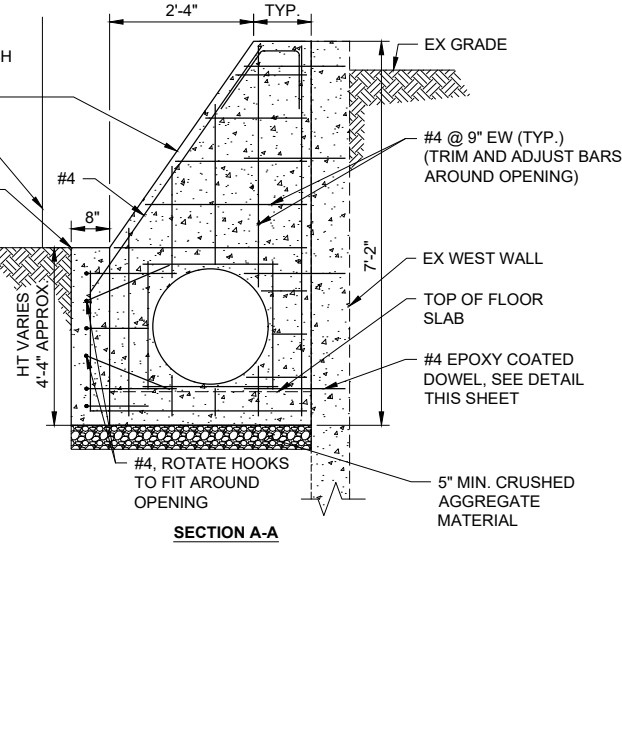
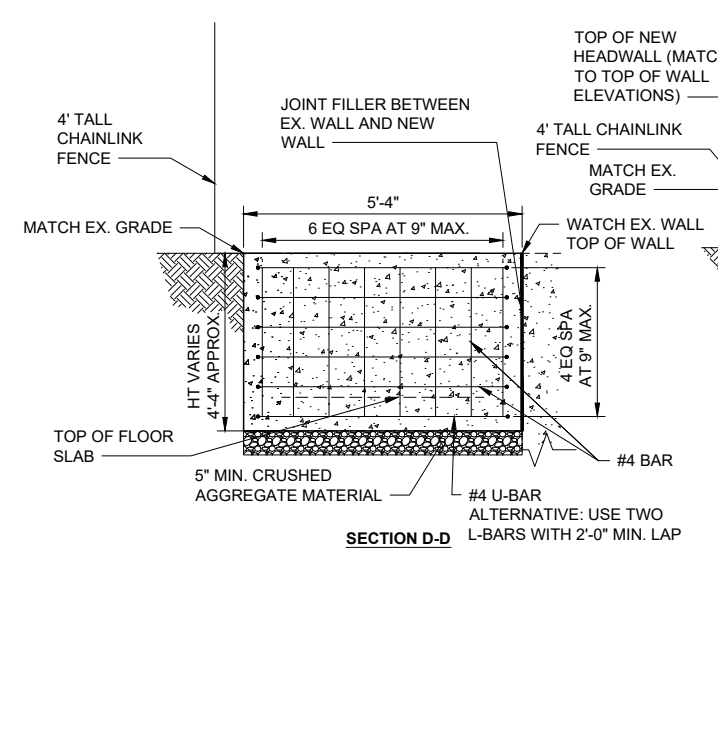
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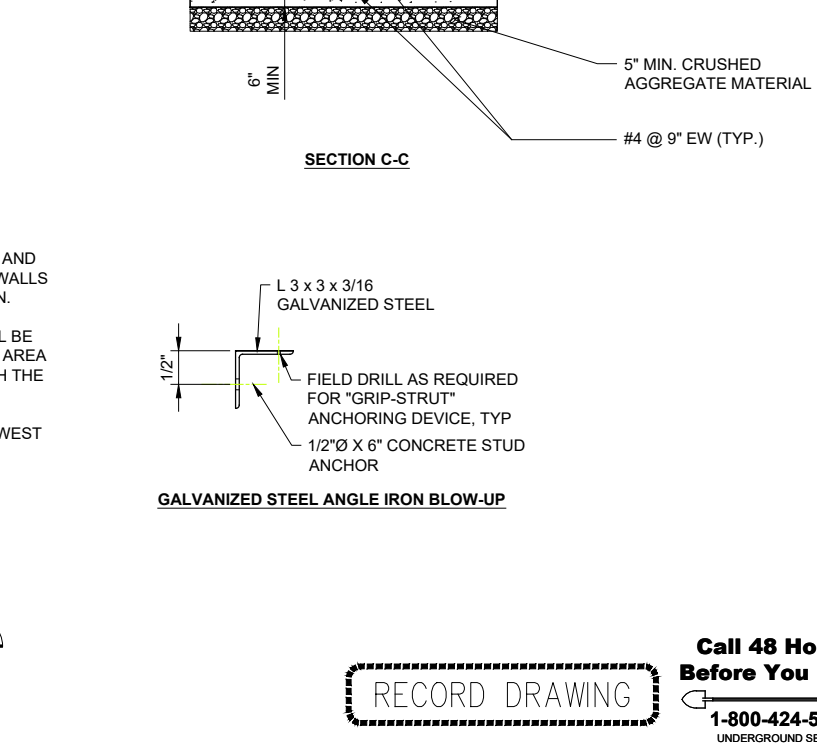
STORMWATER CLEANOUT
DETAIL 3
NTS C-26



8\"/>



STORMWATER CLEANOUT
DETAIL 3
NTS C-26



GALVANIZED STEEL ANGLE IRON BLOW-UP

FILE NAME (UPDATED BY) PLOT DATE & TIME
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Designed: J. ERICKSON, P.E.
 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.



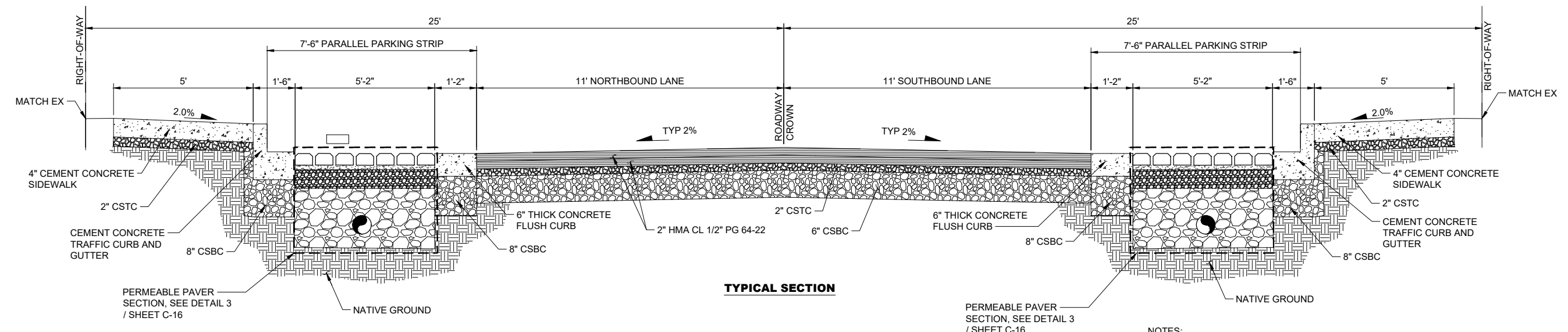
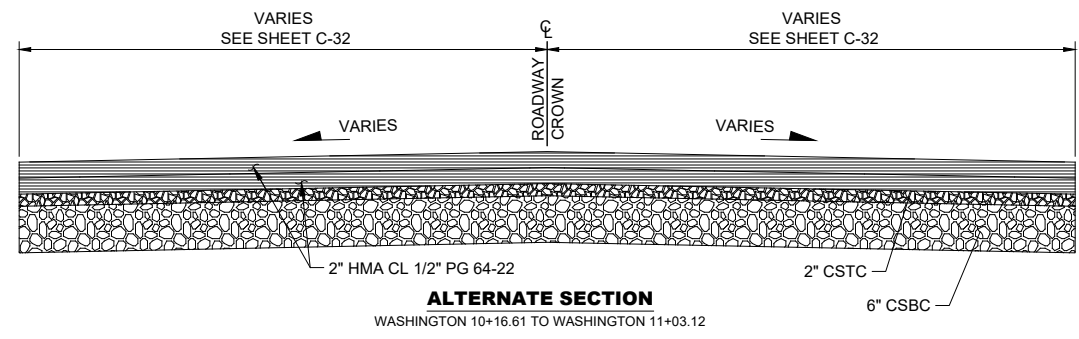
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KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER DETAILS
SHEET 3 OF 3

Drawing: **C-09**
 Sheet: **21** of **101**
 File: 21-P13-10282_C-09
 Date: February 2017

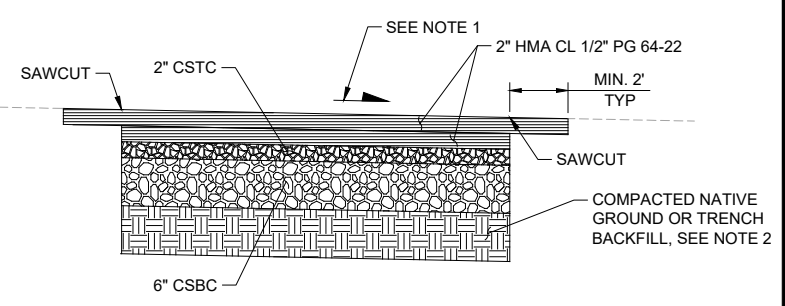
RECORD DRAWING

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1-800-424-5555
 UNDERGROUND SERVICE

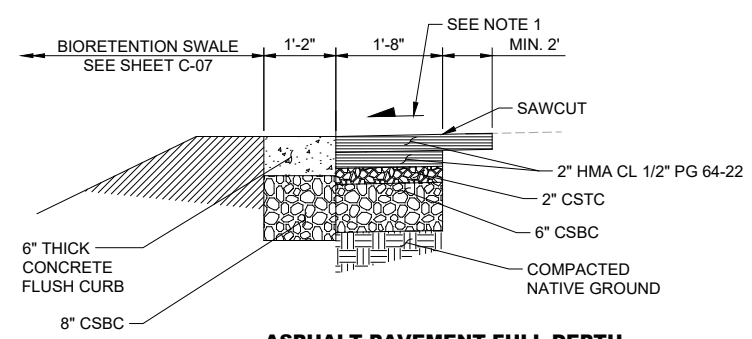


**WASHINGTON AVENUE NE
TYPICAL SECTION
DETAIL 1**
WASHINGTON 11+03.12 TO WASHINGTON 15+12.59

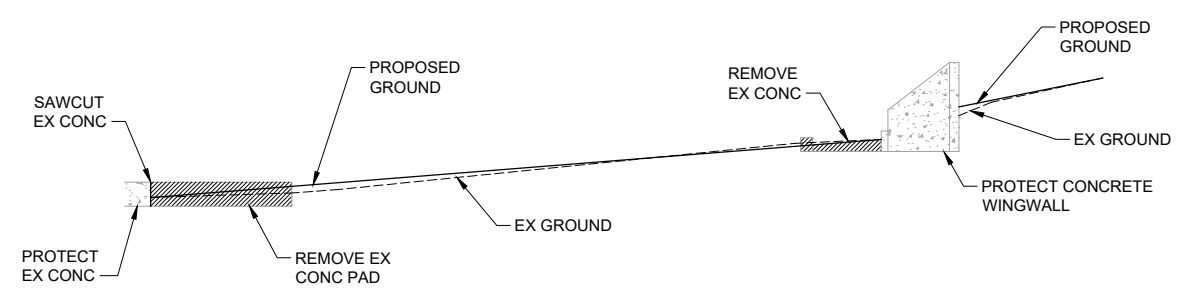
NOTES:
1. REFER TO SHEETS C-12 TO C-14 FOR GRADING AT INTERSECTION BULBOUT AREAS.



NOTES:
1. MATCH SLOPE TO SURROUNDING ROADWAY PAVEMENT
2. REFER TO DETAIL 3 ON SHEET C-02 FOR AREAS OF UTILITY AND STORMWATER TRENCHING. FINAL SURFACING ABOVE THE TRENCH BACKFILL TO BE RESTORED PER THIS DETAIL.



NOTES:
1. MATCH SLOPE TO SURROUNDING ROADWAY PAVEMENT



NOTES:
1. REFER TO SHEET C-32 FOR EXTENT OF CONCRETE WINGWALL AND SURROUNDING WORK

RECORD DRAWING

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Before You Dig**
1-800-424-5555
UNDERGROUND SERVICE

FILE NAME: (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01R_PP-SUB-DWG (R.S.)
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No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

BHC CONSULTANTS
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhcconsultants.com

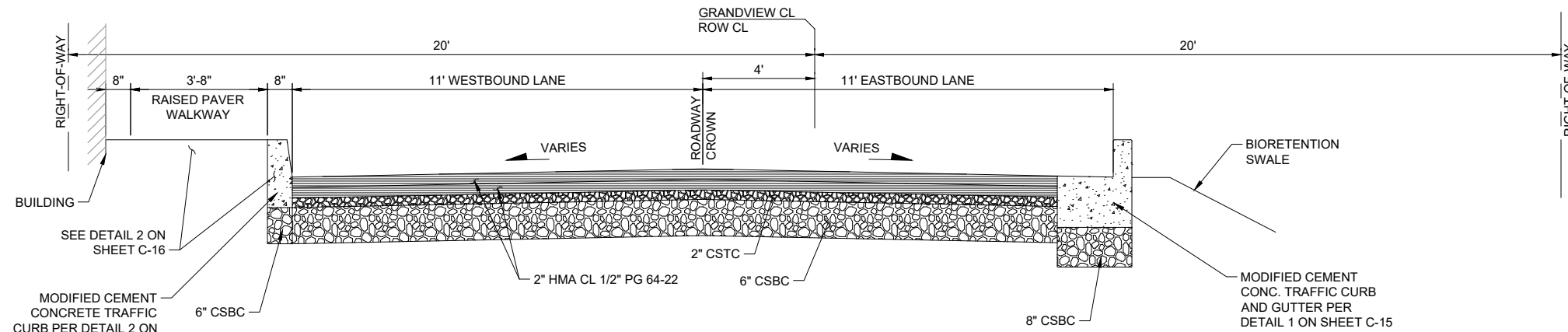
Designed: B. MAGEE, P.E.
Drawn: B. MAGEE, P.E.
Checked: R. KIRSCHBAUM, P.E.
Approved: B. MAGEE, P.E.
Scale: As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly

KITSAP COUNTY
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

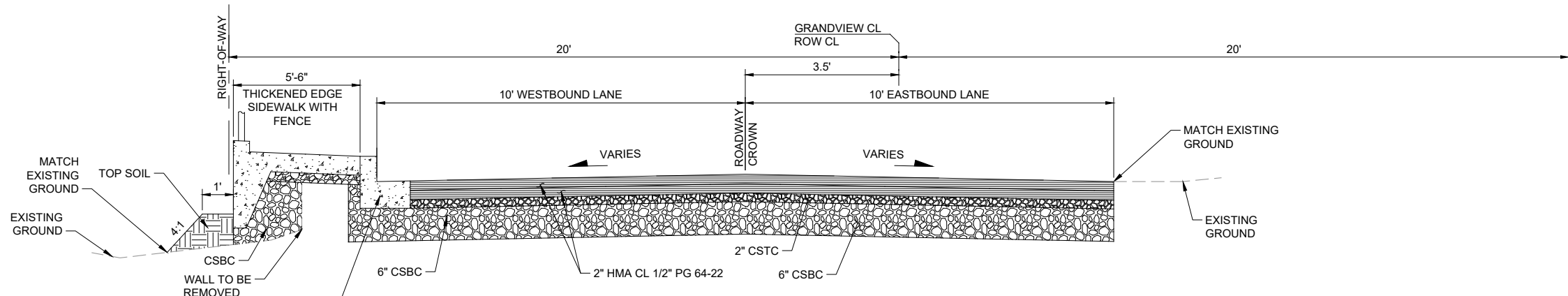
KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 1 OF 8

Drawing: **C-10**
Sheet: **22** Of **101**
File: 22-P13-10282_C-10
Date: February 2017

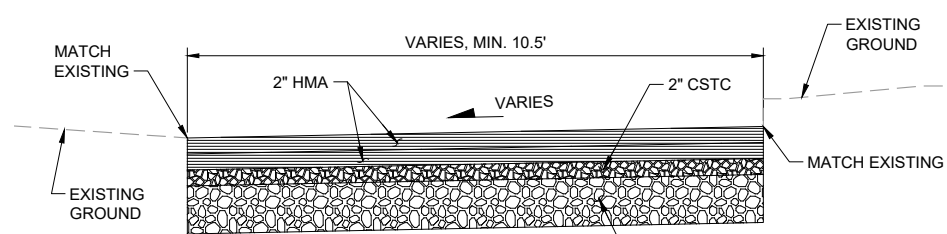
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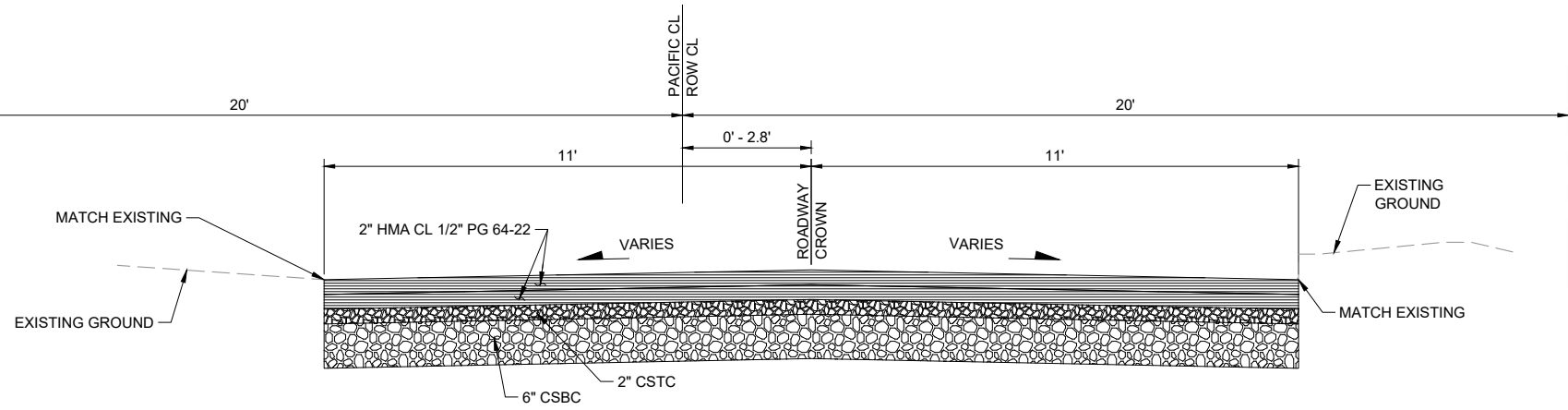
**NE GRANDVIEW BLVD
TYPICAL SECTION
DETAIL 1**
 GRANDVIEW 20+44.40 TO GRANDVIEW 21+84.77



**NE GRANDVIEW BLVD
TYPICAL SECTION
DETAIL 2**
 GRANDVIEW 22+16.67 TO GRANDVIEW 23+00.15



**ALLEY
TYPICAL SECTION
DETAIL 4**
 ALLEY 39+06.54 TO ALLEY 40+25.75
 ALLEY 40+76.31 TO ALLEY 41+97.10



**NE PACIFIC AVE
TYPICAL SECTION
DETAIL 3**
 PACIFIC 30+96.53 TO PACIFIC 31+68.52
 PACIFIC 32+33.00 TO PACIFIC 33+20.14

RECORD DRAWING

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No.	Revision	Date	By	App'd



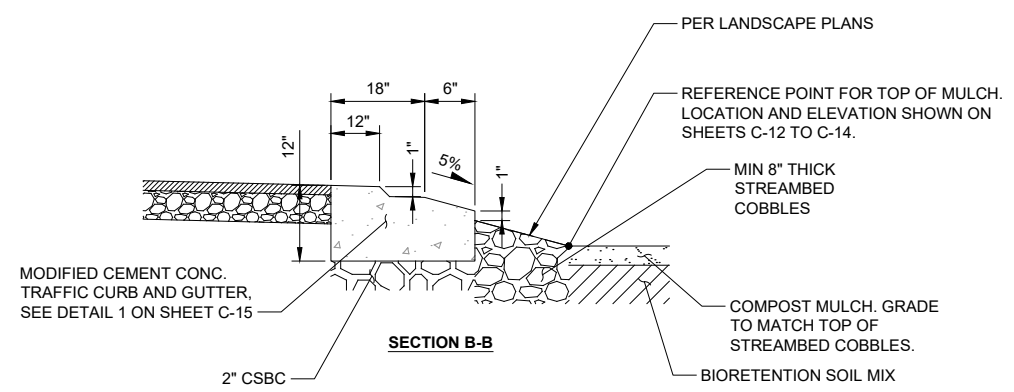
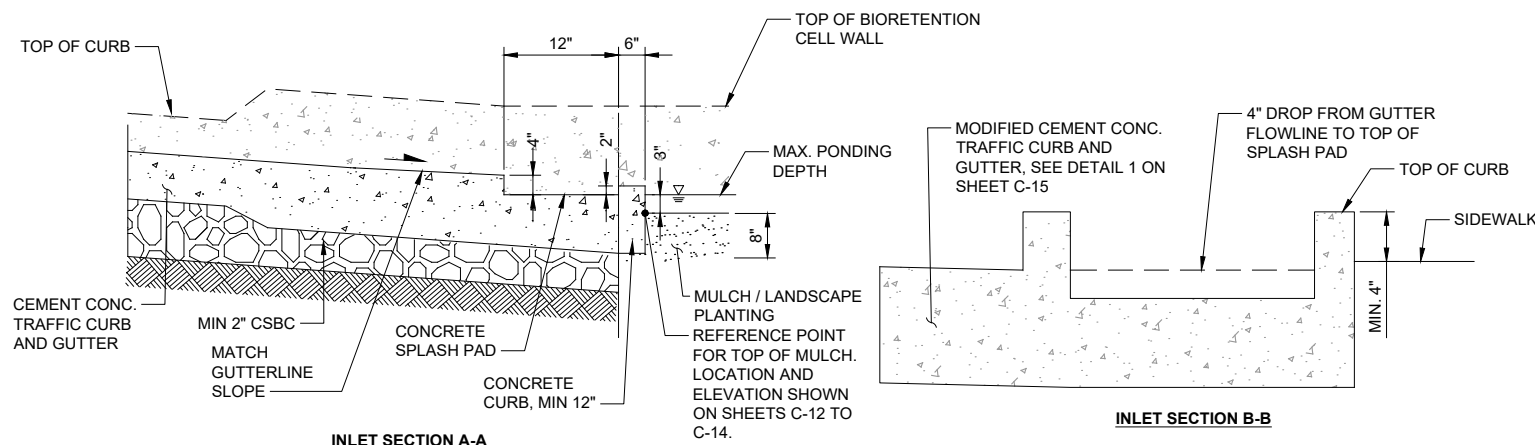
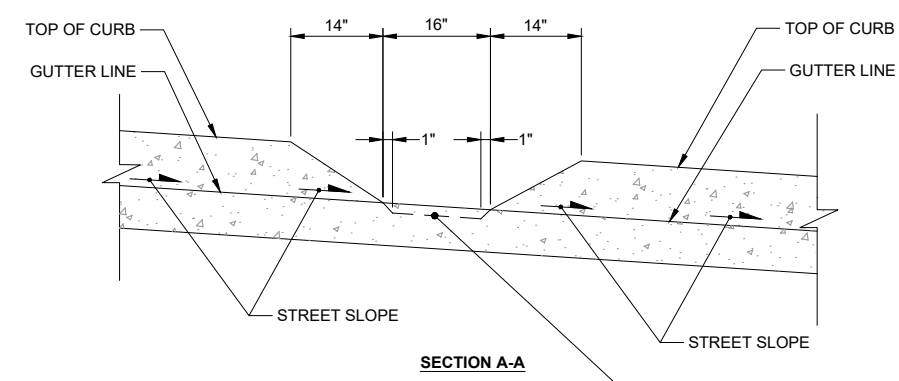
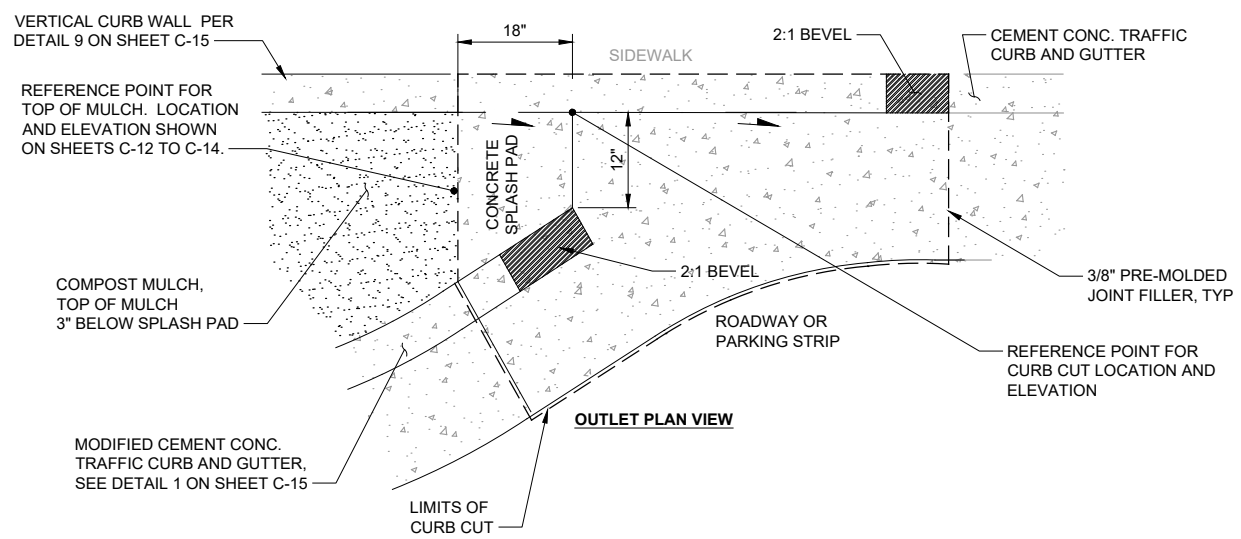
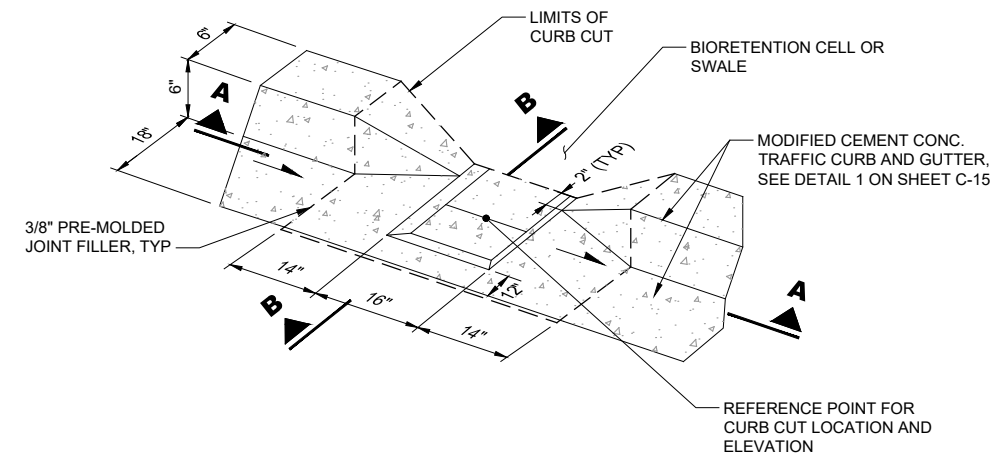
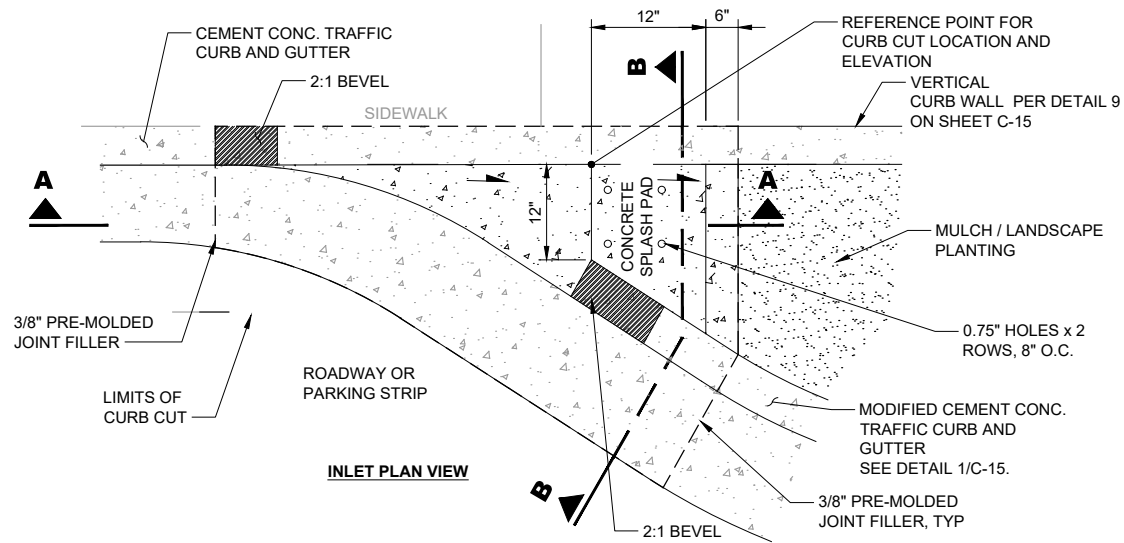
Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.
 Scale: As Shown
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 2 OF 8

Drawing: **C-10a**
 Sheet: **23** Of **101**
 File: 23-P13-10282_C-10A
 Date: February 2017

FILE NAME (UPDATED BY) PLOT DATE & TIME
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 APR 09 2013 07:13:40
 XREFS: X12-10237-01PL_Prop Shwerdick, X12-10237-01PL_Ex Topo Shwerdick, X12-10237-01PL_Ex Topo Shwerdick, X12-10237-01PL_IB



CURB CUT TYPE 1
DETAIL 1
NTS

CURB CUT TYPE 2
DETAIL 2
NTS

CURB CUT SCHEDULE		
STREET	STATION / OFFSET	CURB CUT TYPE
WASHINGTON	11+48.32, 18.51' LT	1 - OUTLET
WASHINGTON	11+58.10, 11.47' LT	2
WASHINGTON	11+78.19, 16.65' LT	2
WASHINGTON	12+07.65, 17.64' RT	2
WASHINGTON	12+16.64, 11.89' RT	2
WASHINGTON	12+28.64, 18.55' RT	1 - INLET
WASHINGTON	13+02.32, 18.50' LT	1 - OUTLET
WASHINGTON	13+04.60, 18.32' RT	1 - OUTLET
WASHINGTON	13+27.18, 14.76' RT	2
WASHINGTON	13+30.40, 16.70' LT	2
WASHINGTON	13+34.31, 37.86' RT	2
WASHINGTON	13+61.84, 18.60' RT	2
WASHINGTON	13+64.34, 16.84' LT	2
WASHINGTON	13+65.30, 45.38' RT	1 - INLET
WASHINGTON	13+65.98, 45.05' LT	1 - INLET
WASHINGTON	13+91.76, 18.14' RT	1 - INLET
WASHINGTON	13+92.77, 18.38' LT	1 - INLET
WASHINGTON	14+57.35, 18.31' LT	1 - OUTLET
WASHINGTON	14+70.25, 12.35' LT	2

CURB CUT SCHEDULE		
STREET	STATION / OFFSET	CURB CUT TYPE
GRANDVIEW	20+56.73, 7.00' RT	2
GRANDVIEW	20+83.72, 7.00' RT	2
GRANDVIEW	21+10.71, 7.00' RT	2
GRANDVIEW	21+37.71, 7.00' RT	2
GRANDVIEW	21+64.70, 7.00' RT	2

- CURB CUT NOTES:**
- SLOPE STREAMBED COBBLES FROM 1" BELOW CURB CUT INVERT TO TOP OF COMPOST MULCH AT 3H:1V MAXIMUM AND 4H:1V MINIMUM.
 - STATIONS AND OFFSETS PROVIDED FOR EACH CURB CUT REFER TO REFERENCE POINT FOR EACH CURB CUT TYPE. ELEVATIONS AT EACH CURB CUT ARE PROVIDED ON SHEETS C-12 AND C-34.
 - SUBMIT AND INSTALL MOCKUP FOR EACH DRAIN CURB CUT TYPE SHOWN FOR COUNTY AND PROJECT REPRESENTATIVE REVIEW.

RECORD DRAWING

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UNDERGROUND SERVICE



Designed: B. MAGEE, P.E.
Scale: NTS
Drawn: B. MAGEE, P.E.
Checked: R. KIRSCHBAUM, P.E.
Approved: B. MAGEE, P.E.



KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS SHEET 3 OF 8

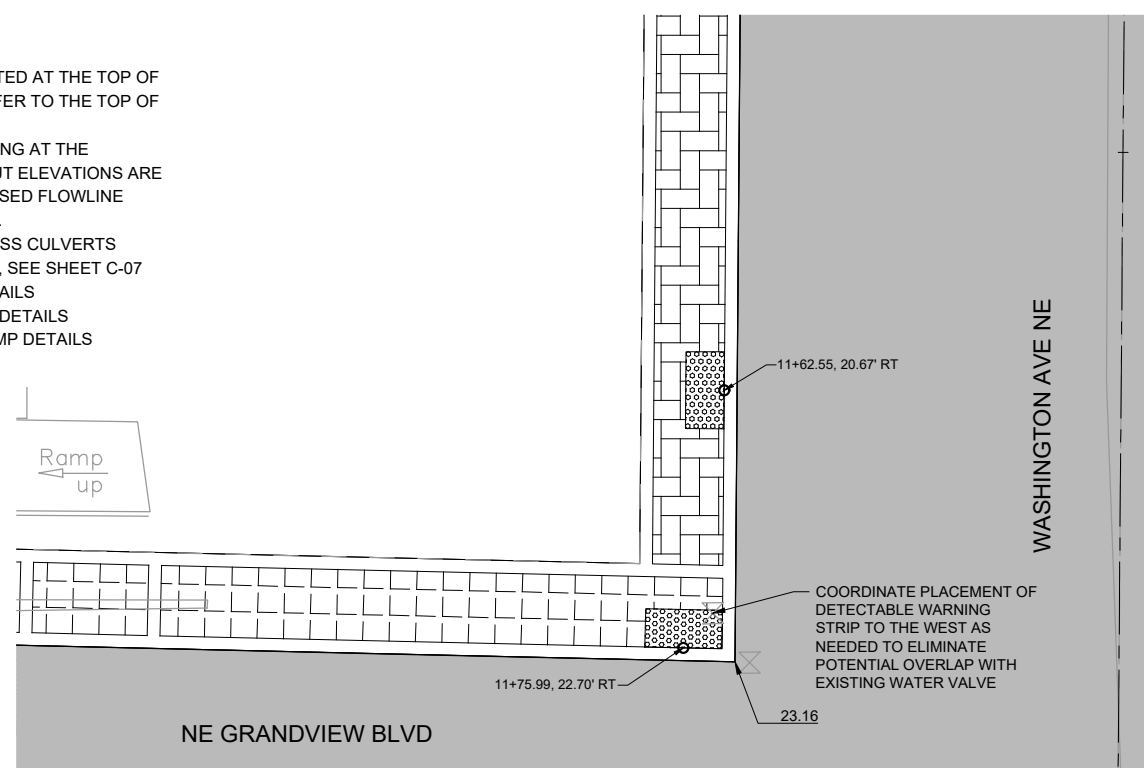
Drawing: **C-11**
Sheet: **24** Of **101**
File: 24-P13-10282_C-11
Date: February 2017

GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN
2. ALL ELEVATIONS SHOWN FOR SIDEWALKS AND CURB RAMP ARE LOCATED AT THE TOP OF SIDEWALK SURFACE. SPOT ELEVATIONS IN THESE AREAS WILL NOT REFER TO THE TOP OF CURB UNLESS OTHERWISE NOTED
3. TYPE 1 CURB CUT ELEVATIONS ARE PROVIDED AT THE CURB CUT OPENING AT THE FLOWLINE OF THE CURB ADJACENT TO THE SIDEWALK. TYPE 2 CURB CUT ELEVATIONS ARE PROVIDED AT THE CENTER OF THE CURB CUT OPENING AT THE DEPRESSED FLOWLINE ELEVATION. SLOPE SURROUNDING ROADWAY TO DRAIN TO CURB CUTS.
4. SEE DETAIL 8 ON SHEET C-15 FOR REINFORCED CURB RAMP WITH CROSS CULVERTS CONNECTING BIORETENTION CELLS. FOR BIORETENTION CELL DETAILS, SEE SHEET C-07
5. REFER TO WSDOT STD. PLAN F-40.12-02 FOR PARALLEL CURB RAMP DETAILS
6. REFER TO WSDOT STD. PLAN F-40.14-02 FOR COMBINATION CURB RAMP DETAILS
7. REFER TO WSDOT STD. PLAN F-40.15-02 FOR PERPENDICULAR CURB RAMP DETAILS
8. CURB RETURN ELEVATIONS ARE PROVIDED AT FLOWLINE
9. SEE SHEET C-31 FOR BIORETENTION CELL PROFILES.

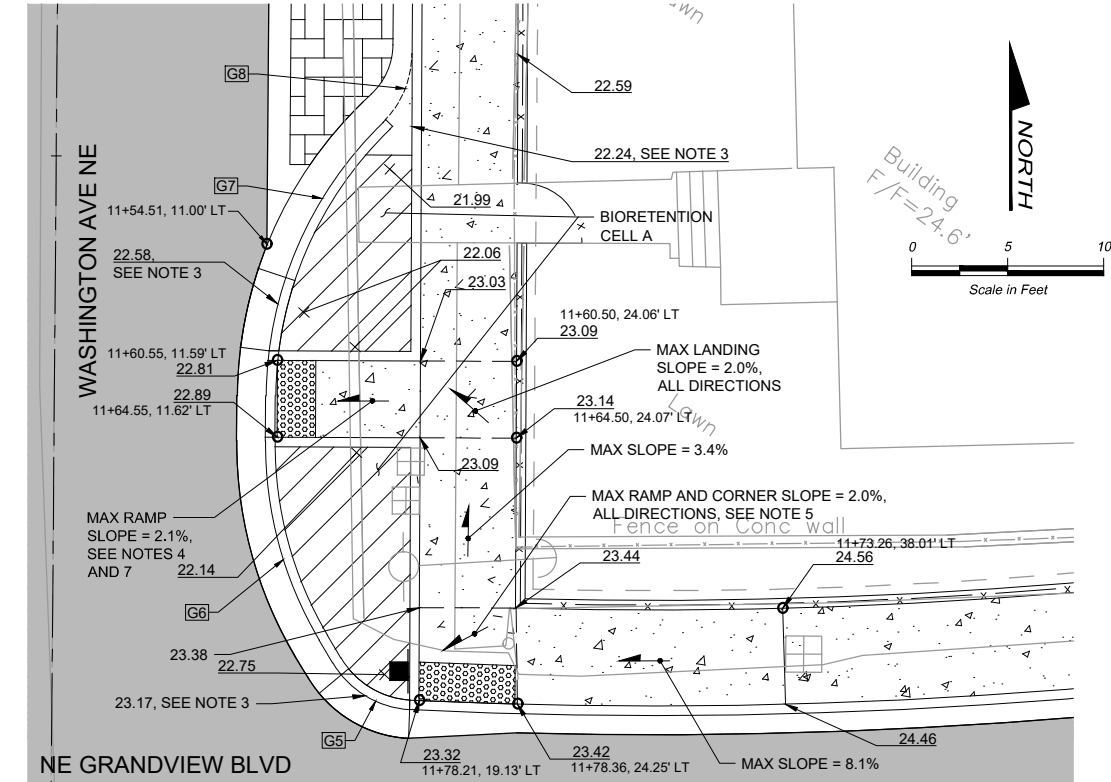
SPOT ELEVATION LEGEND:

- XX.XX PAVEMENT/CURB ELEVATION
- XX.XX BIORETENTION CELL MULCH ELEVATION, SEE SHEET C-11 FOR TYPICAL LOCATIONS OF ELEVATION CALLOUTS



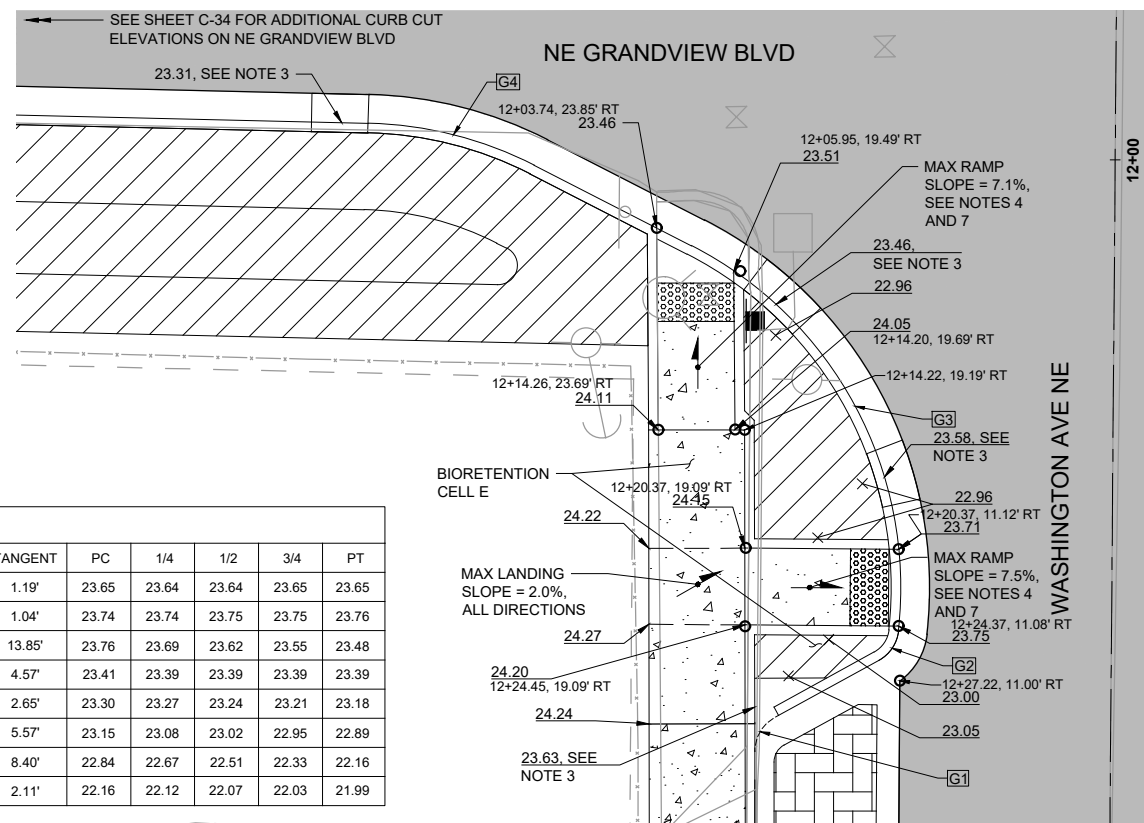
BULBOUT PAVING, NW CORNER

DETAIL 1
SCALE: 1" = 5'
C-32



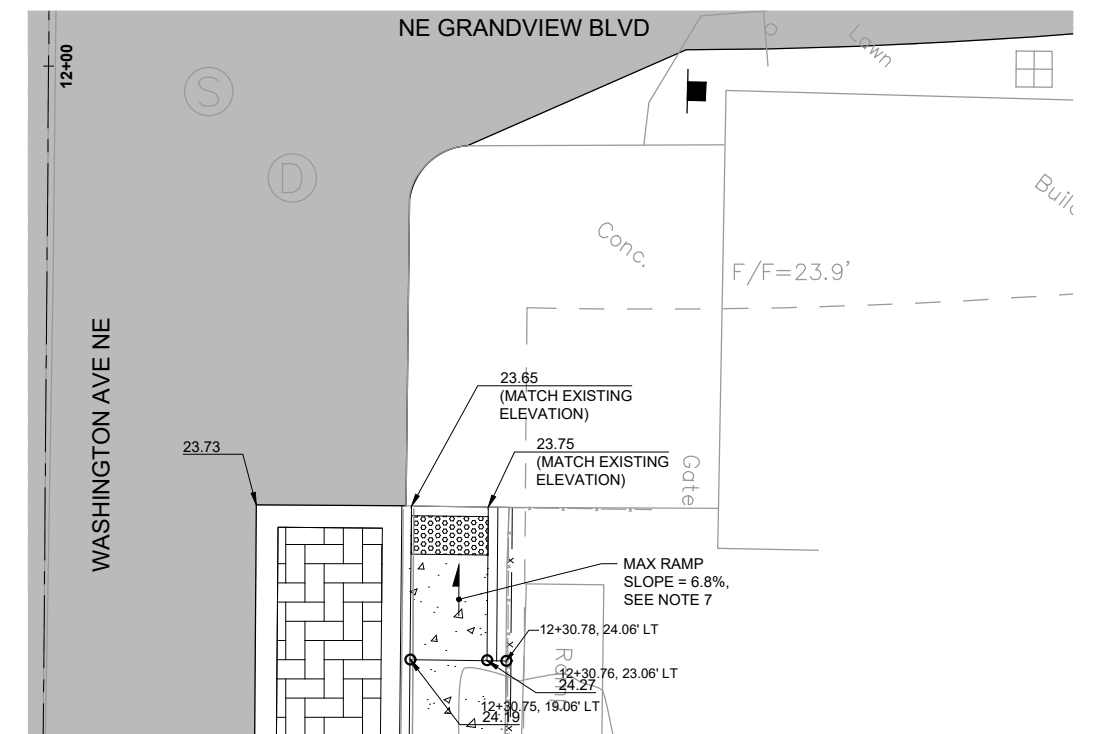
BULBOUT PAVING, NE CORNER

DETAIL 3
SCALE: 1" = 5'
C-32



BULBOUT PAVING, SW CORNER

DETAIL 2
SCALE: 1" = 5'
C-32



BULBOUT PAVING, SE CORNER

DETAIL 4
SCALE: 1" = 5'
C-32

CURVE DATA											
CURVE NO.	PC STATION/OFFSET	PT STATION/OFFSET	RADIUS	LENGTH	DELTA	TANGENT	PC	1/4	1/2	3/4	PT
G1	12+30.94, 18.52' RT	12+29.17, 17.50' RT	2.00'	2.14'	61°21'09"	1.19'	23.65	23.64	23.64	23.65	23.65
G2	12+26.25, 12.26' RT	12+24.63, 11.11' RT	2.00'	1.91'	54°45'43"	1.04'	23.74	23.74	23.75	23.75	23.76
G3	12+24.63, 11.11' RT	12+04.65, 22.03' RT	20.00'	24.22'	69°23'58"	13.85'	23.76	23.69	23.62	23.55	23.48
G4	12+00.53, 30.26' RT	11+98.41, 38.92' RT	20.00'	8.99'	25°45'44"	4.57'	23.41	23.39	23.39	23.39	23.39
G5	11+78.70, 18.62' RT	11+76.29, 14.60' RT	5.00'	4.88'	55°55'39"	2.65'	23.30	23.27	23.24	23.21	23.18
G6	11+76.29, 14.60' RT	11+64.77, 11.00' RT	20.00'	10.87'	31°08'55"	5.57'	23.15	23.08	23.02	22.95	22.89
G7	11+62.41, 11.00' RT	11+48.13, 16.99' RT	20.00'	15.90'	45°33'30"	8.40'	22.84	22.67	22.51	22.33	22.16
G8	11+48.13, 16.99' RT	11+44.54, 18.49' RT	5.00'	3.99'	45°44'52"	2.11'	22.16	22.12	22.07	22.03	21.99

NOTE: ALL STATION AND OFFSET DATA REFERS TO THE WASHINGTON AVE ALIGNMENT

FILE NAME: (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_PP-SU.DWG (P.S.)
 APR 09 2013 07:13:40
 XREFS: 12-10237-01PL-Prop_Silverdale, 12-10237-01PL-Ex_Topo_Silverdale, 12-10237-01PL_Prelim, 12-10237-01PL_IB



Designed: B. MAGEE, P.E.
 Drawn: W. NEWELL
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 4 OF 8

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 UNDERGROUND SERVICE

Drawing: **C-12**
 Sheet: **25** Of **101**
 File: 25-P13-10282_C-12
 Date: February 2017

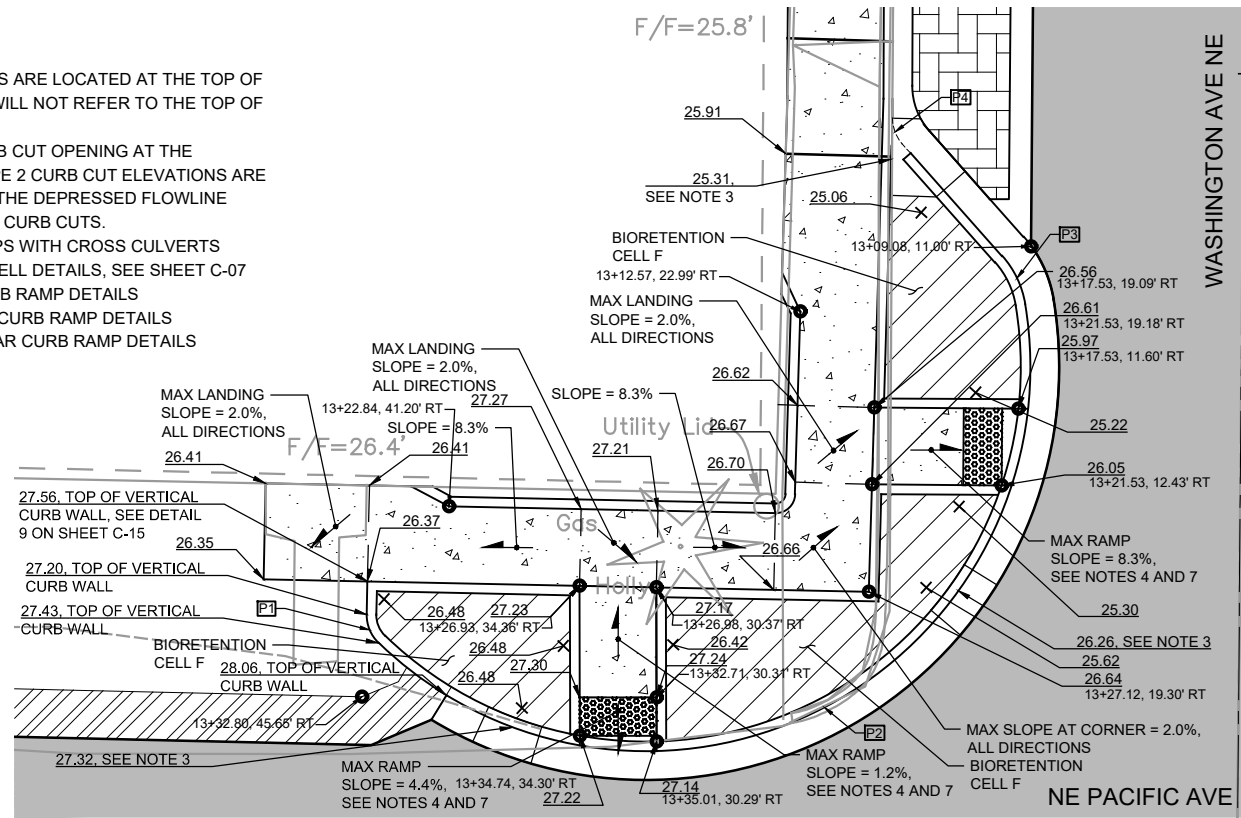


GENERAL NOTES

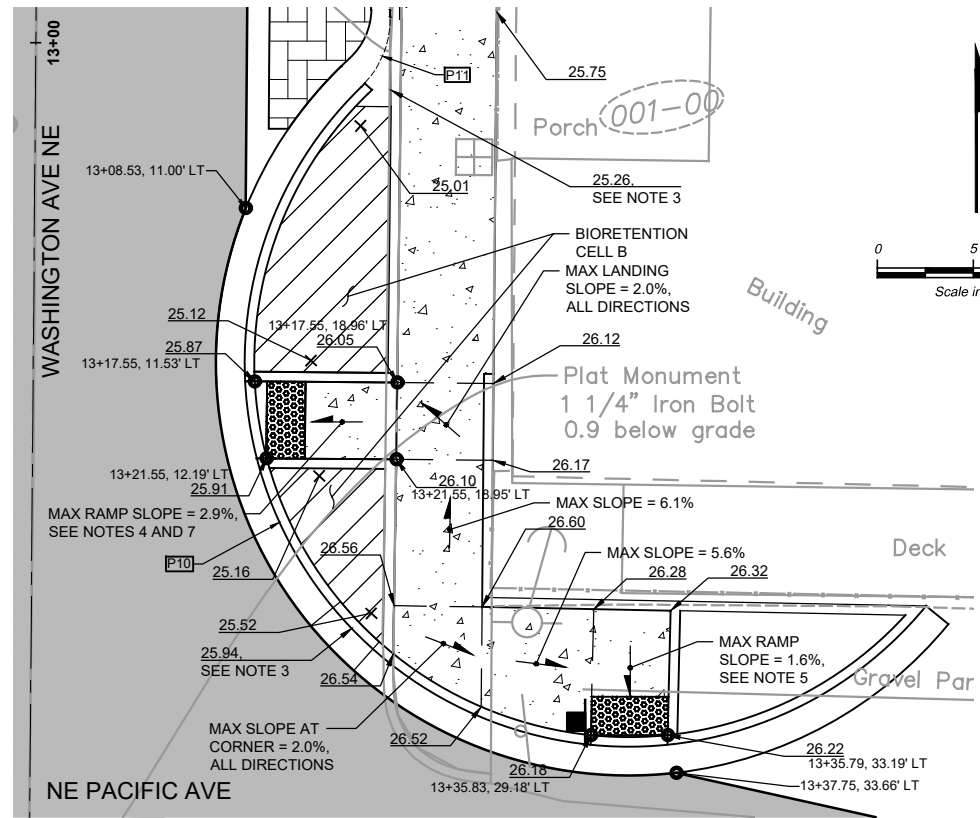
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN
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4. SEE DETAIL 8 ON SHEET C-15 FOR REINFORCED CURB RAMP WITH CROSS CULVERTS CONNECTING BIORETENTION CELLS. FOR BIORETENTION CELL DETAILS, SEE SHEET C-07
5. REFER TO WSDOT STD. PLAN F-40.12-02 FOR PARALLEL CURB RAMP DETAILS
6. REFER TO WSDOT STD. PLAN F-40.14-02 FOR COMBINATION CURB RAMP DETAILS
7. REFER TO WSDOT STD. PLAN F-40.15-02 FOR PERPENDICULAR CURB RAMP DETAILS
8. CURB RETURN ELEVATIONS ARE PROVIDED AT FLOWLINE
9. SEE SHEET C-31 FOR BIORETENTION CELL PROFILES

SPOT ELEVATION LEGEND:

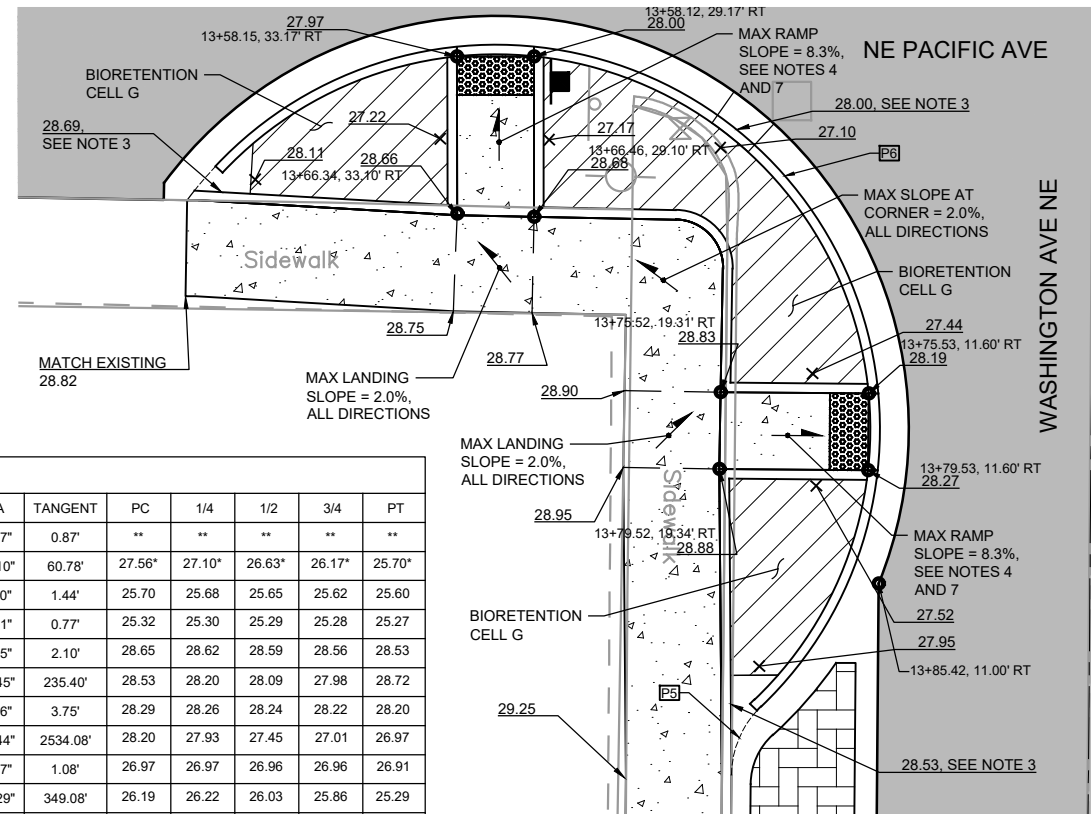
- XX.XX PAVEMENT/CURB ELEVATION
- XX.XX BIORETENTION CELL MULCH ELEVATION. SEE SHEET C-11 FOR TYPICAL LOCATIONS OF ELEVATION CALLOUTS



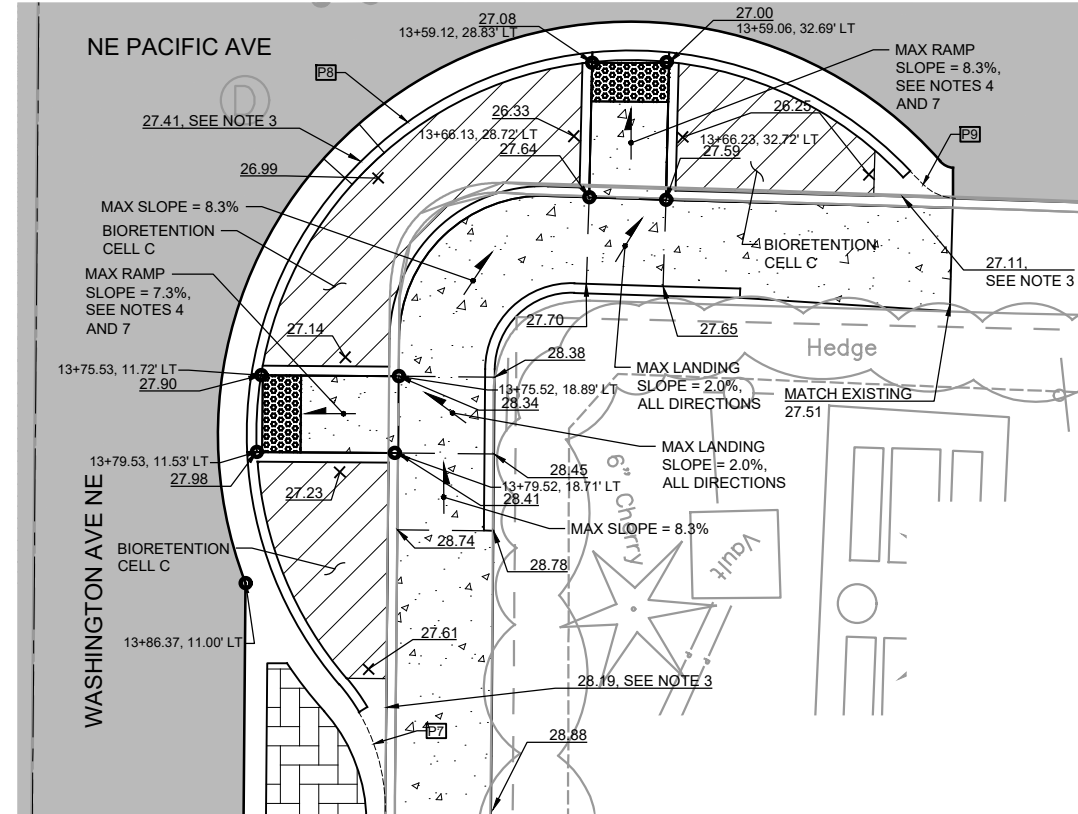
BULBOUT PAVING, NW CORNER
DETAIL 5
SCALE: 1" = 5'
C-33



BULBOUT PAVING, NE CORNER
DETAIL 7
SCALE: 1" = 5'
C-33



BULBOUT PAVING, SW CORNER
DETAIL 6
SCALE: 1" = 5'
C-33



BULBOUT PAVING, SE CORNER
DETAIL 8
SCALE: 1" = 5'
C-33

CURVE DATA											
CURVE NO.	PC STATION / OFFSET	PT STATION/OFFSET	RADIUS	LENGTH	DELTA	TANGENT	PC	1/4	1/2	3/4	PT
P1	13+28.52, 45.43' RT	13+29.99, 44.81' RT	2.00'	1.64'	47°02'37"	0.87'	**	**	**	**	**
P2	13+29.99, 44.81' RT	13+12.09, 11.30' RT	20.00'	50.12'	143°34'10"	60.78'	27.56'	27.10'	26.63'	26.17'	25.70'
P3	13+12.09, 11.30' RT	13+09.60, 12.51' RT	5.00'	2.81'	32°09'40"	1.44'	25.70'	25.68'	25.65'	25.62'	25.60'
P4	13+03.79, 17.75' RT	13+02.46, 18.26' RT	2.00'	1.46'	41°53'21"	0.77'	25.32'	25.30'	25.29'	25.28'	25.27'
P5	13+95.45, 17.06' RT	13+91.88, 17.06' RT	5.00'	3.98'	45°39'05"	2.10'	28.65'	28.62'	28.59'	28.56'	28.53'
P6	13+91.88, 17.06' RT	13+65.74, 47.16' RT	20.00'	66.22'	189°42'45"	235.40'	28.53'	28.20'	28.09'	27.98'	28.72'
P7	13+98.18, 18.37' LT	13+91.61, 15.91' LT	10.00'	7.17'	41°06'06"	3.75'	28.29'	28.26'	28.24'	28.22'	28.20'
P8	13+91.61, 15.91' LT	13+65.94, 47.67' LT	20.00'	62.52'	179°05'44"	2534.08'	28.20'	27.93'	27.45'	27.01'	26.97'
P9	13+65.94, 47.67' LT	13+65.11, 45.88' LT	2.50'	2.03'	46°32'57"	1.08'	26.97'	26.97'	26.96'	26.96'	26.91'
P10	13+28.96, 46.58' LT	13+02.18, 16.95' LT	20.00'	65.12'	186°33'29"	349.08'	26.19'	26.22'	26.03'	25.86'	25.29'
P11	13+02.18, 16.95' LT	12+98.63, 18.44' LT	5.00'	3.95'	45°17'22"	2.09'	25.29'	25.25'	25.22'	25.18'	25.15'

NOTE: ALL STATION AND OFFSET DATA REFERS TO THE WASHINGTON AVE ALIGNMENT
* ELEVATIONS GIVEN FOR LIMITS OF GUTTER FLOWLINE STARTING AT 31+58.52
** VERTICAL CURB WALL SEGMENT WITHOUT A GUTTER PAN FLOWLINE

FILE NAME: (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_C-33.DWG (P.5)
 PLOT DATE & TIME: APR 09 2013 07:13:40
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Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 5 OF 8

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Drawing: **C-13**
 Sheet: **26** Of **101**
 File: 26-P13-10282_C-13
 Date: February 2017

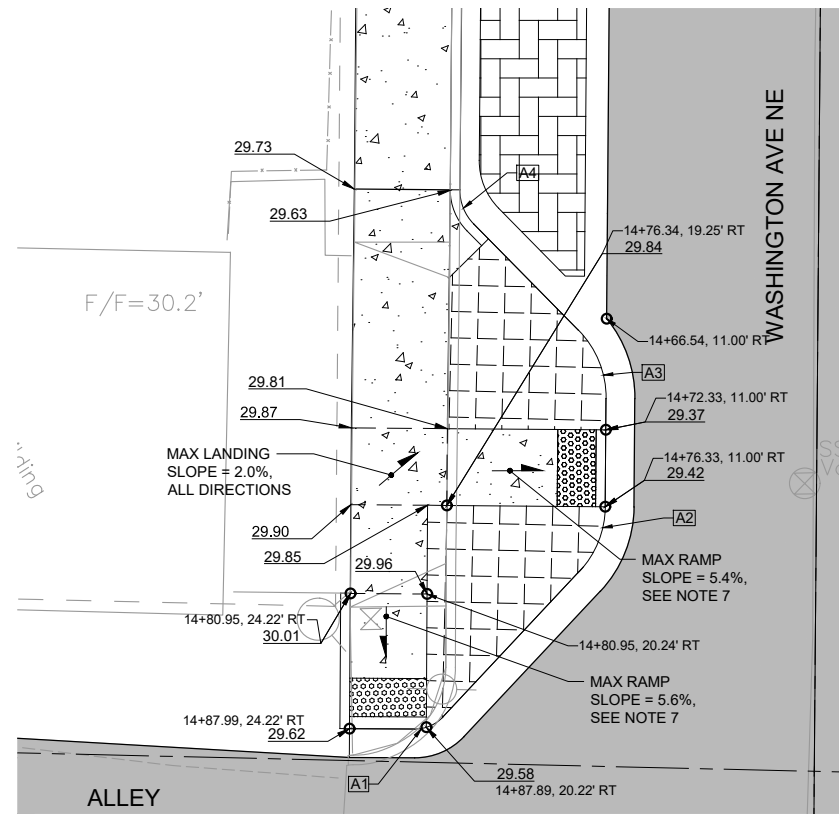


GENERAL NOTES

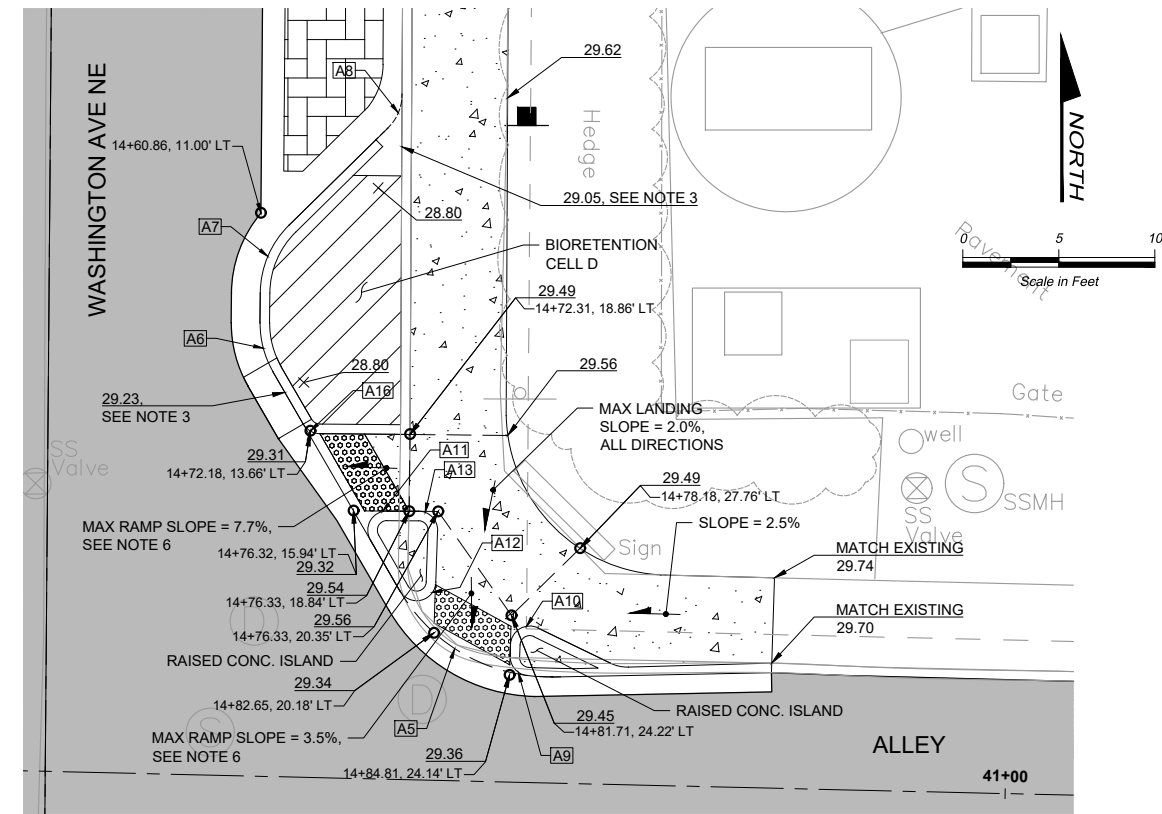
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7. REFER TO WSDOT STD. PLAN F-40.15-02 FOR PERPENDICULAR CURB RAMP DETAILS
8. CURB RETURN ELEVATIONS ARE PROVIDED AT FLOWLINE
9. SEE SHEET C-31 FOR BIORETENTION CELL PROFILES.

SPOT ELEVATION LEGEND:

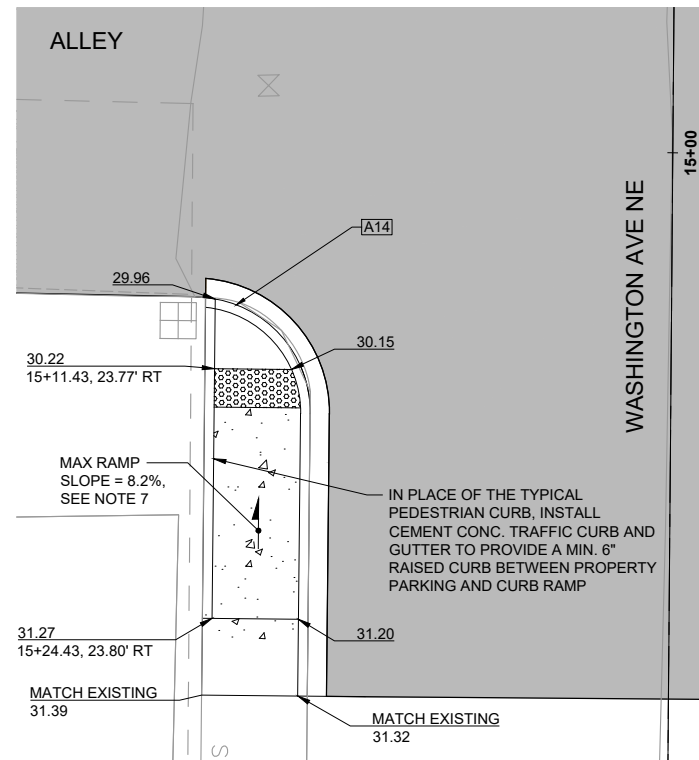
- XX.XX PAVEMENT/CURB ELEVATION
- XX.XX BIORETENTION CELL MULCH ELEVATION, SEE SHEET C-11 FOR TYPICAL LOCATIONS OF ELEVATION CALLOUTS



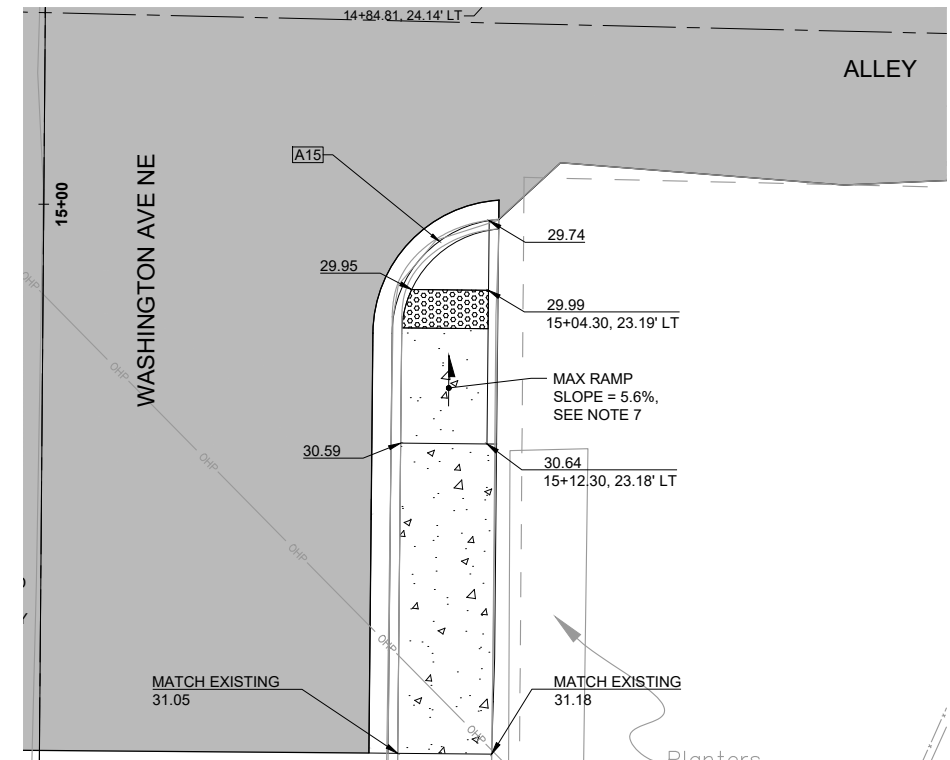
**BULBOUT PAVING, NW CORNER
DETAIL 9**
SCALE: 1" = 5'
C-33



**BULBOUT PAVING, NE CORNER
DETAIL 11**
SCALE: 1" = 5'
C-33



**BULBOUT PAVING, SW CORNER
DETAIL 10**
SCALE: 1" = 5'
C-33



**BULBOUT PAVING, SE CORNER
DETAIL 12**
SCALE: 1" = 5'
C-33

CURVE DATA											
CURVE DATA	PC STATION/OFFSET	PT STATION/OFFSET	RADIUS	LENGTH	DELTA	TANGENT	PC	1/4	1/2	3/4	PT
A1	14+87.98, 20.82' RT	14+87.34, 19.36' RT	2.00'	1.65'	47°09'12"	0.87'	29.58	29.57	29.57	29.57	29.57
A2	14+79.47, 12.11' RT	14+76.33, 11.00' RT	5.00'	3.39'	38°51'40"	1.76'	29.45	29.44	29.43	29.42	29.42
A3	14+70.70, 11.00' RT	14+67.44, 12.20' RT	5.00'	3.93'	44°59'45"	2.07'	29.35	29.33	29.32	29.30	29.29
A4	14+61.66, 17.96' RT	14+59.89, 18.70' RT	2.50'	1.96'	45°00'00"	1.04'	29.15	29.14	29.13	29.13	29.13
A5	14+84.90, 26.39' LT	14+80.48, 18.39' LT	9.00'	9.48'	60°21'18"	5.23'	29.37	29.36	29.35	29.34	29.33
A6	14+69.12, 11.69' LT	14+66.59, 11.00' LT	5.00'	2.66'	30°25'55"	1.36'	29.31	29.31	29.31	29.30	29.30
A7	14+65.03, 11.00' LT	14+61.49, 12.46' LT	5.00'	3.93'	45°01'43"	2.07'	29.28	29.27	29.25	29.23	29.21
A8	14+56.39, 17.57' LT	14+54.63, 18.30' LT	2.50'	1.96'	45°00'00"	1.04'	29.05	29.04	29.03	29.02	29.02
A9	14+84.84, 25.04' LT	14+83.83, 24.16' LT	1.00'	1.47'	84°06'25"	0.90'	29.36	29.37	29.37	29.38	29.39
A10	14+83.24, 24.17' LT	14+82.36, 25.60' LT	1.00'	1.99'	114°11'21"	1.55'	29.40	29.42	29.43	29.45	29.46
A11	14+77.84, 16.83' LT	14+76.33, 17.69' LT	1.00'	2.10'	120°31'32"	1.75'	29.32	29.35	29.38	29.39	29.45
A12	14+80.48, 18.39' LT	14+80.01, 20.26' LT	1.00'	2.58'	147°59'56"	3.49'	29.33	29.35	29.37	29.38	29.40
A13	14+76.33, 19.33' LT	14+77.36, 20.33' LT	1.00'	1.60'	91°28'33"	1.03'	29.55	29.54	29.54	29.53	29.52
A14	15+07.74, 24.26' RT	15+13.73, 18.78' RT	6.00'	8.92'	85°11'41"	5.52'	29.96	30.02	30.09	30.16	30.22
A15	15+00.67, 23.20' LT	15+06.58, 18.19' LT	6.00'	8.92'	85°13'22"	5.52'	29.74	29.81	29.88	29.95	30.02
A16	14+72.33, 14.16' LT	14+71.84, 13.29' LT	1.00'	1.04'	59°28'28"	0.57'	29.36	29.35	29.34	29.32	29.31

NOTE: ALL STATION AND OFFSET DATA REFERS TO THE WASHINGTON AVE ALIGNMENT

FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\F12-10237-01R1_P1_S01.DWG (R.S.)
 PLOT DATE & TIME APR 09 2013 07:13:40
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 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.

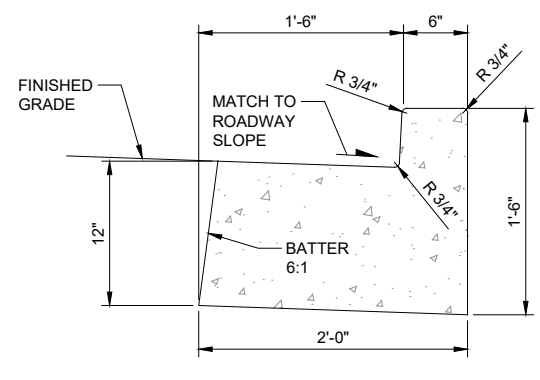


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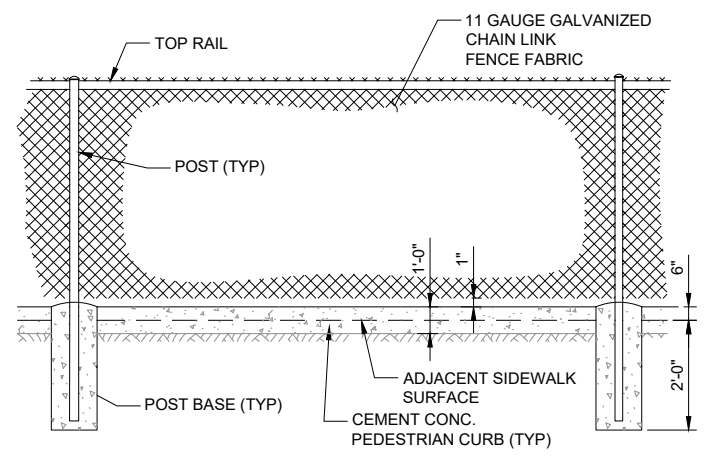
KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 6 OF 8

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 Drawing: **C-14**
 Sheet: **27** Of **101**
 File: 27-P13-10282_C-14
 Date: February 2017

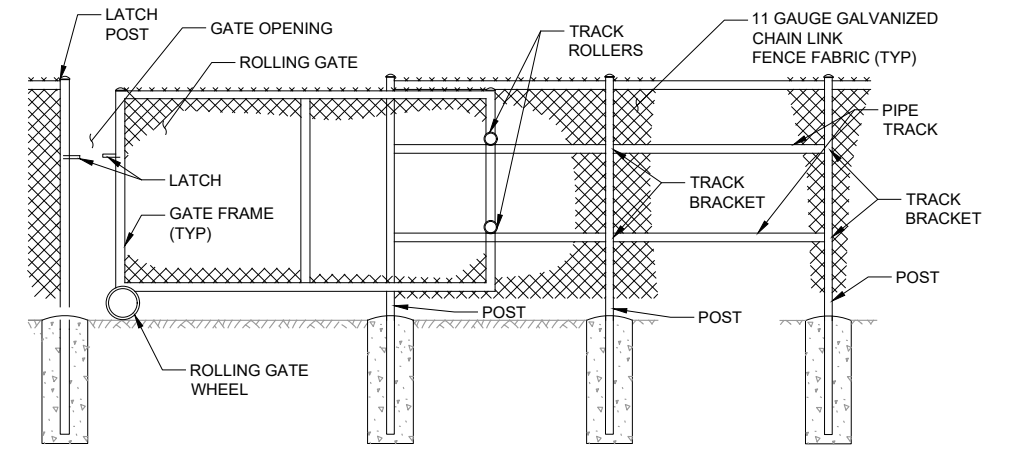




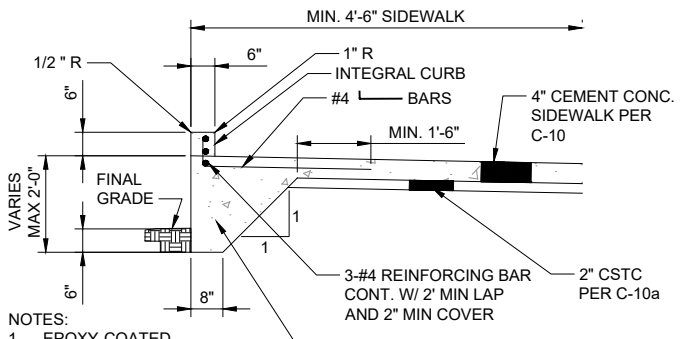
MODIFIED CEMENT CONC. TRAFFIC CURB AND GUTTER
DETAIL 1
NTS



CHAIN LINK FENCE WITH RAISED CURB
DETAIL 3
NTS

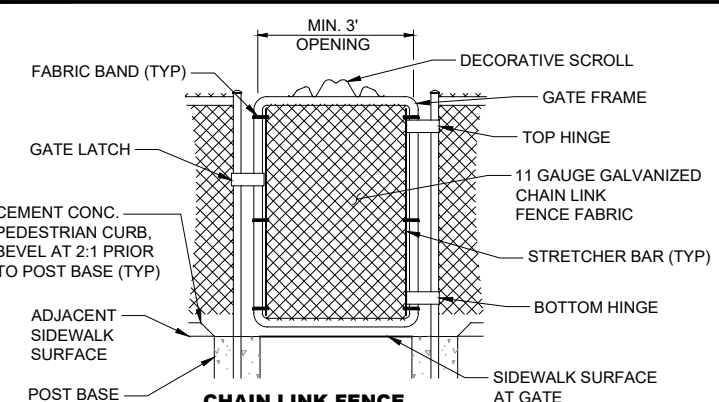


CHAIN LINK FENCE WITH SLIDING GATE
DETAIL 5
NTS

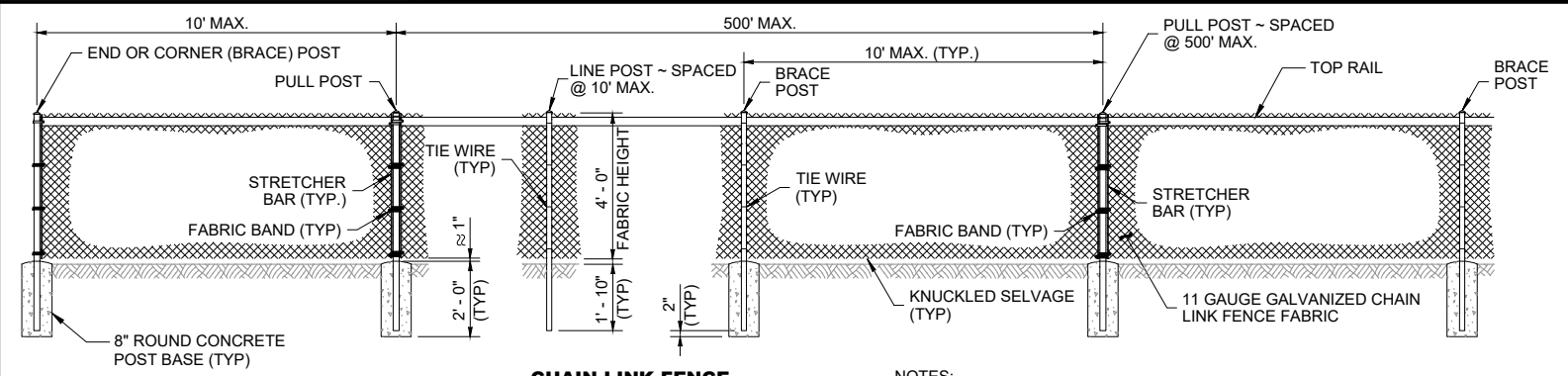


- NOTES:**
1. EPOXY-COATED REINFORCEMENT BARS SHALL BE USED UNLESS OTHERWISE NOTED.
 2. FENCE POST LOCATIONS SHALL BE COORDINATED WITH REINFORCEMENT AT INTEGRAL CURB AS NEEDED.

CEMENT CONC. THICKENED EDGE SIDEWALK
DETAIL 2
NTS

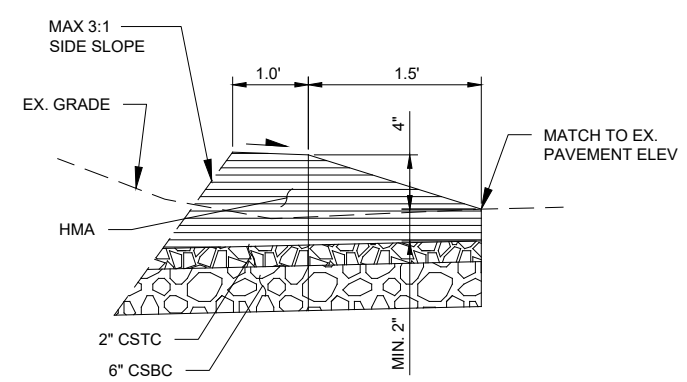


CHAIN LINK FENCE SWING GATE
DETAIL 4
NTS

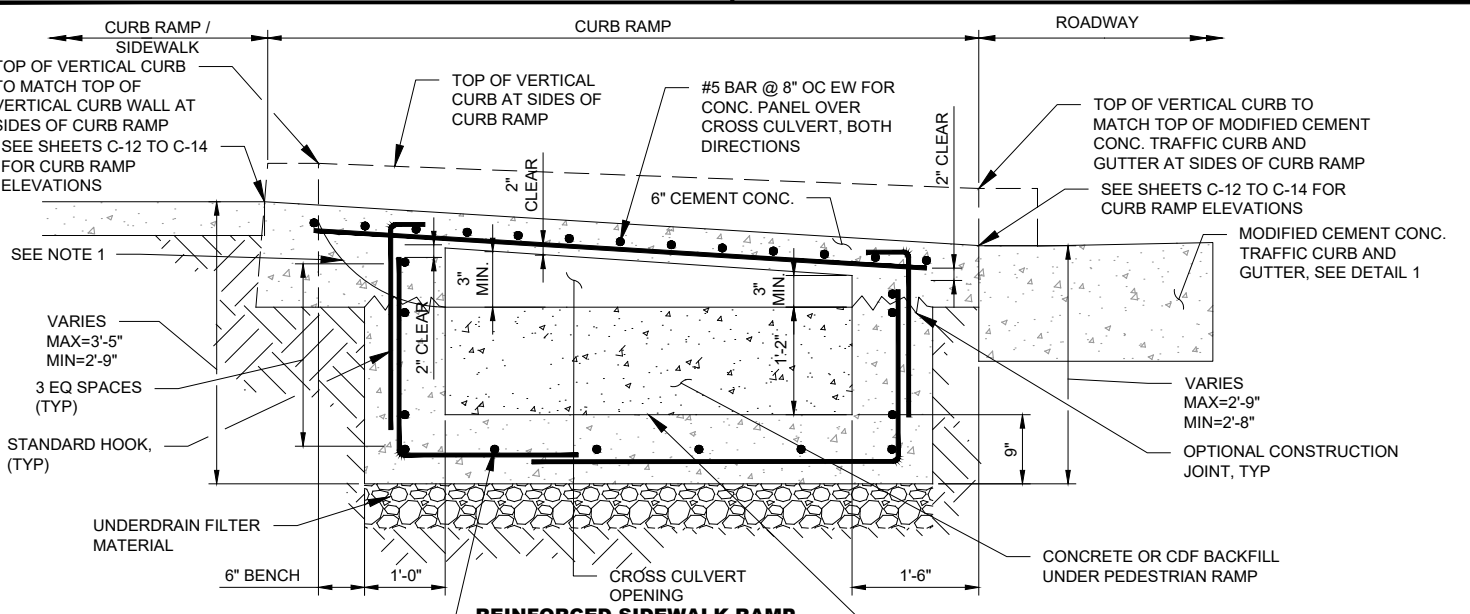


CHAIN LINK FENCE
DETAIL 6
NTS

- NOTES:**
1. SEE DETAIL 3 FOR LOCATIONS WHERE FENCE IS LOCATED OVER PEDESTRIAN CURB
 2. SEE DETAIL 5 FOR SLIDING GATE

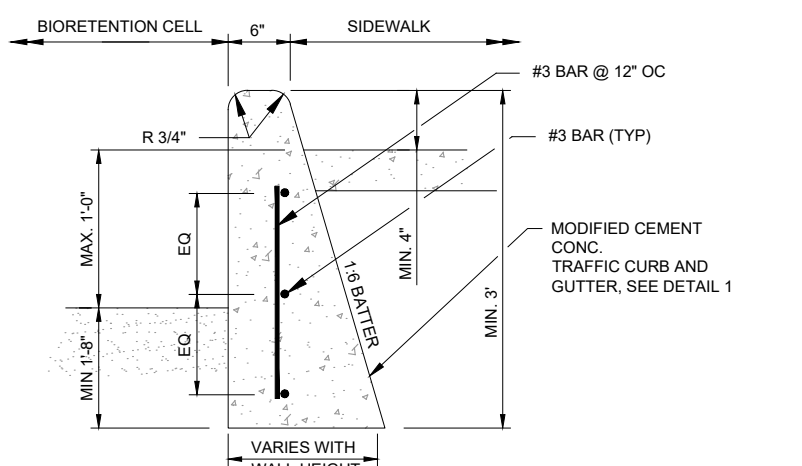


ASPHALT THICKENED EDGE
DETAIL 7
NTS



REINFORCED SIDEWALK RAMP AND CROSS CULVERT
DETAIL 8
NTS

- NOTES:**
1. MOUND MULCH TO 2" BELOW TOP OF SIDEWALK ELEVATION ON EITHER SIDE OF VERTICAL CURB WALLS. DO NOT BLOCK CROSS CULVERT OPENING.



VERTICAL CURB WALL
DETAIL 9
NTS

RECORD DRAWING

Call 48 Hours Before You Dig
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UNDERGROUND SERVICE

FILE NAME (UPDATED BY) PLOT DATE & TIME
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206.505.3406 (fax)
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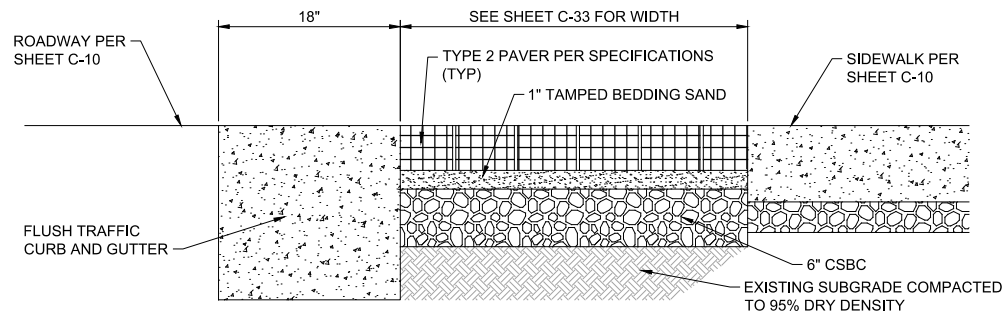
Designed: B. MAGEE, P.E.
Drawn: B. MAGEE, P.E.
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Approved: B. MAGEE, P.E.

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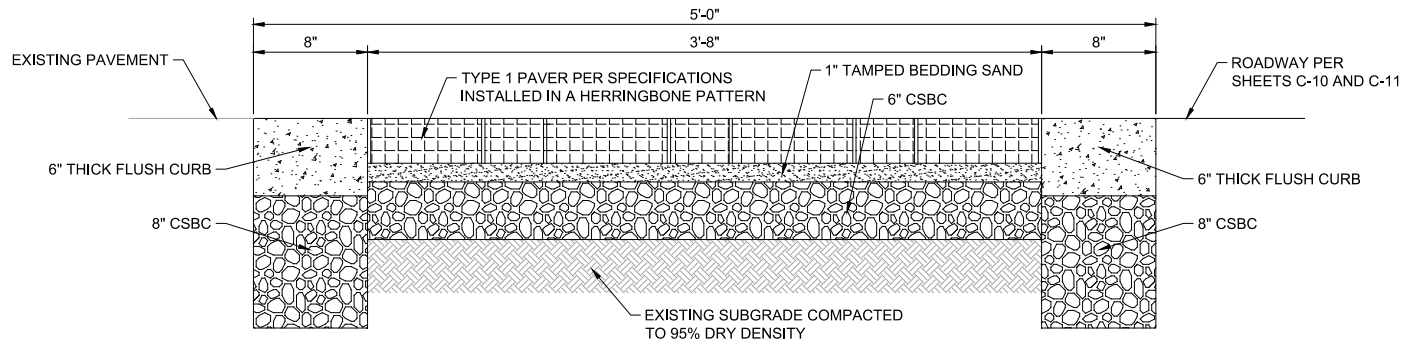
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Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 7 OF 8

Drawing: **C-15**
Sheet: **28** Of **101**
File: 28-P13-10282_C-15
Date: February 2017



AT INTERSECTION OF ALLEY AND WASHINGTON, DEPRESSED BULBOUT

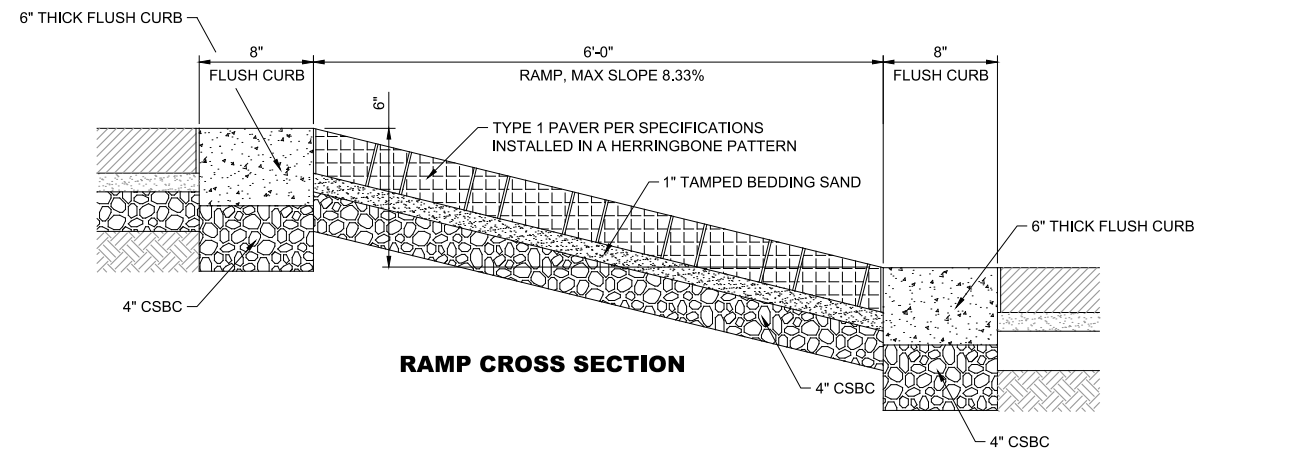


AT INTERSECTION OF GRANDVIEW AND WASHINGTON

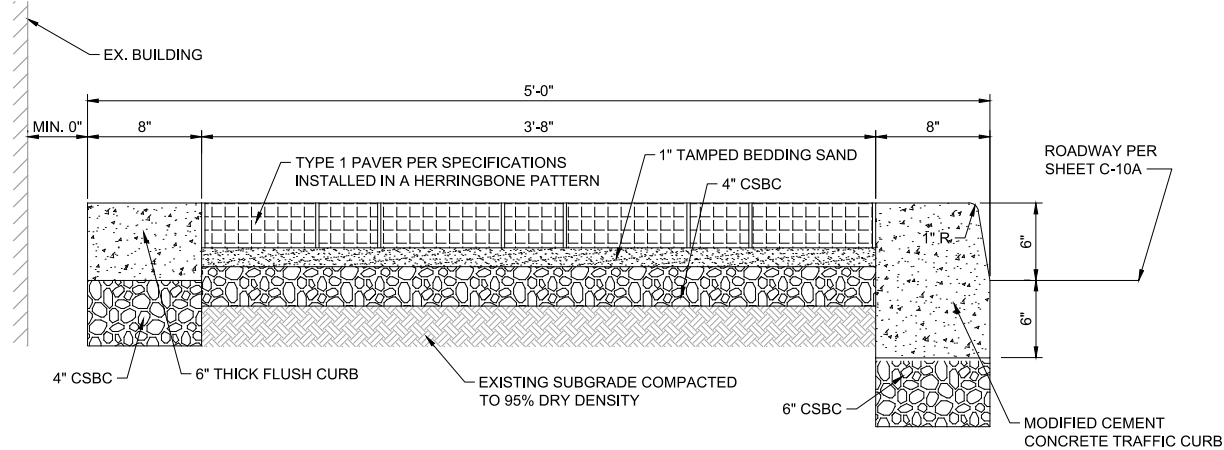
TYPICAL IMPERMEABLE PAVER ROADWAY CROSS SECTION

DETAIL 1

NTS



RAMP CROSS SECTION

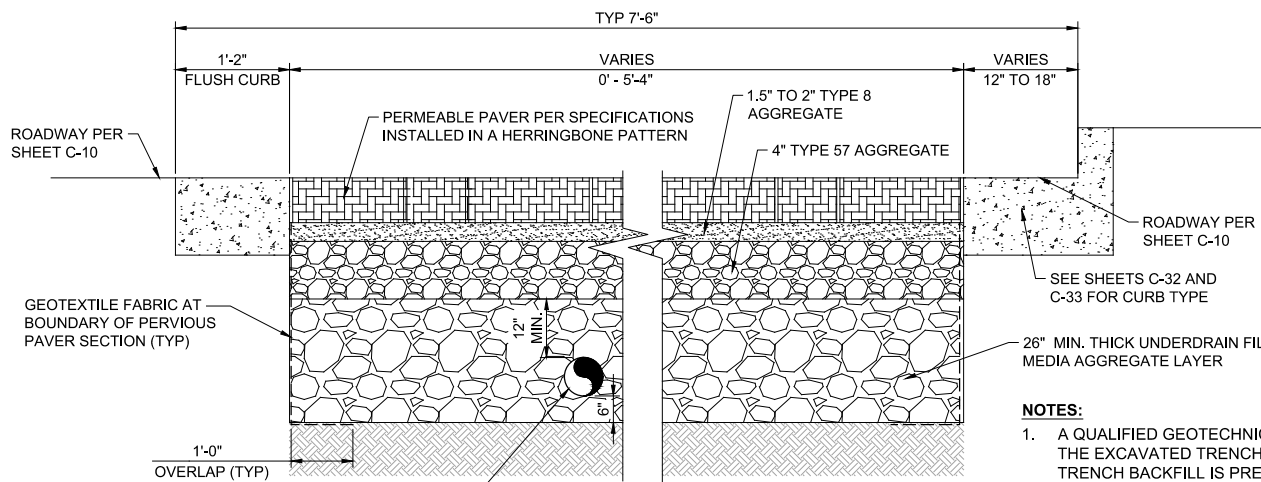


RAISED SECTION ALONG NE GRANDVIEW BLVD 20+85.69 TO 21+54.14

TYPICAL IMPERMEABLE PAVER ROADWAY CROSS SECTION

DETAIL 2

NTS

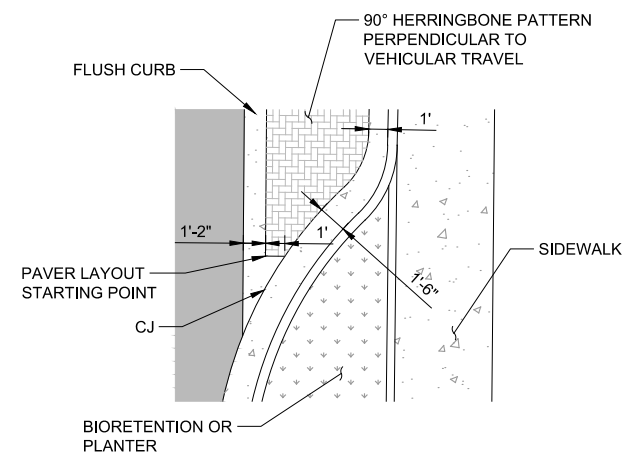


TYPICAL PERMEABLE PAVER CROSS SECTION

DETAIL 3

NTS

- NOTES:**
1. A QUALIFIED GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXCAVATED TRENCH TO DETERMINE IF PERMEABLE TRENCH BACKFILL IS PRESENT, WHICH IS DEFINED AS ANY MATERIAL WITH LESS THAN 15% PASSING THE #200 SIEVE.
 2. WHERE EXISTING PERMEABLE TRENCH BACKFILL IS ENCOUNTERED WITHIN THE BIORETENTION CELL EXCAVATION, THE MATERIAL SHALL BE OVER EXCAVATED TO A MINIMUM DEPTH OF 1' WITH 1:1 SIDE SLOPES AND BACKFILLED WITH SUITABLE LOW PERMEABLE MATERIAL OR IMPERMEABLE PLASTIC LINER SHALL BE INSTALLED AS APPROVED BY THE GEOTECHNICAL ENGINEER.



PAVER TRANSITION

DETAIL 4

NTS

RECORD DRAWING

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FILE NAME: (UPDATED BY) APR 09 2013 07:13:40
 S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01FL_PP-SD-0100- (R1).
 XREFS: 12-10237-01FL_PP-SD-0100- (R1). Topo_Silverdale, 12-10237-01FL_PP-SD-0100- (R1).
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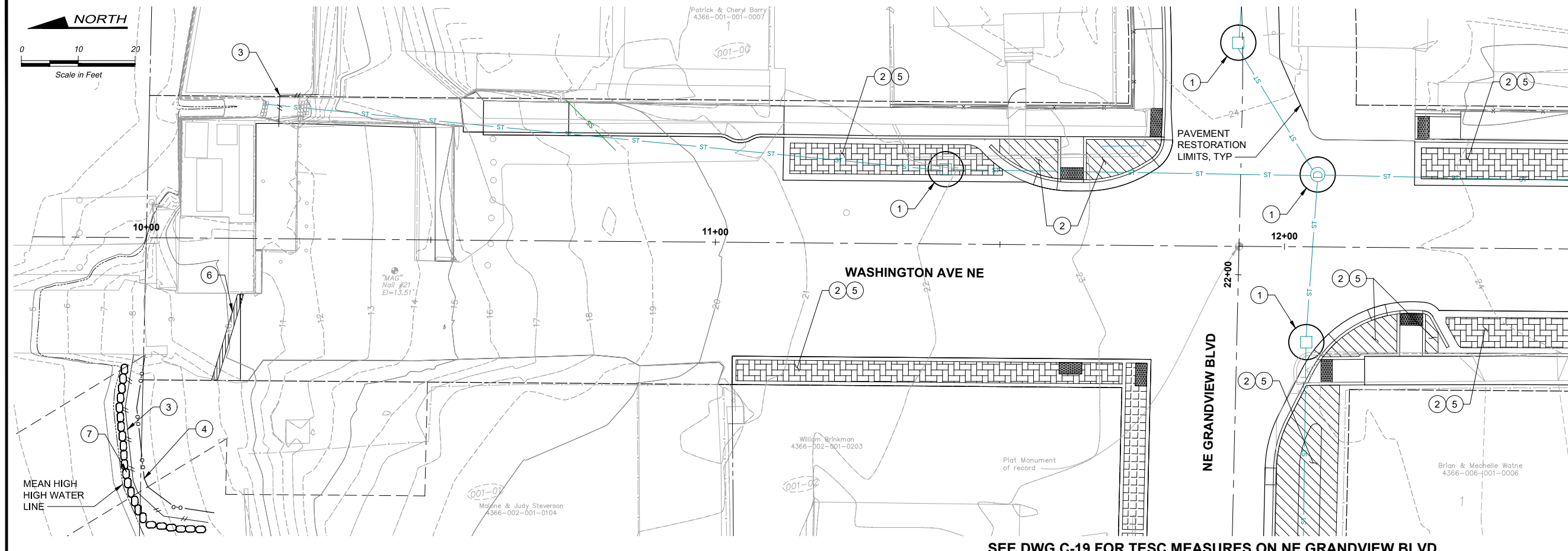
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Checked: R. KIRSCHBAUM, P.E.	If Not One Inch Scale Accordingly
Approved: B. MAGEE, P.E.	

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KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY DETAILS
SHEET 8 OF 8

Drawing: C-16
Sheet: 29 Of 101
File: 29-P13-10282_C-16
Date: February 2017



NOTES:
 1. REFER TO SHEET G-07 FOR GENERAL EROSION CONTROL NOTES.

CONSTRUCTION NOTES:

- ① CATCH BASIN INSERT, SEE DETAIL 1/C-01.
- ② REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- ③ FILTER FABRIC FENCE, SEE DETAIL 4/C-01.
- ④ FIBER ROLL, SEE DETAIL 5/C-01.
- ⑤ WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.
- ⑥ TEMPORARY ASPHALT BERM.
- ⑦ INSTALL SAND BAG DAM OUTSIDE OF MEAN HIGH WATERLINE TO ISOLATE TRENCH FROM LIBERTY BAY. WRAP IN PLASTIC SHEETING TO ENSURE SAND DOES NOT GET INTO LIBERTY BAY IF BREAK OCCURS.

SEE DWG C-19 FOR TESC MEASURES ON NE GRANDVIEW BLVD

LEGEND:

- PERMEABLE PAVERS
- BIORETENTION FACILITY
- IMPERMEABLE PAVERS, PAVES TYPE 1

FILE NAME (UPDATED BY) PLOT DATE & TIME
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RECORD DRAWING

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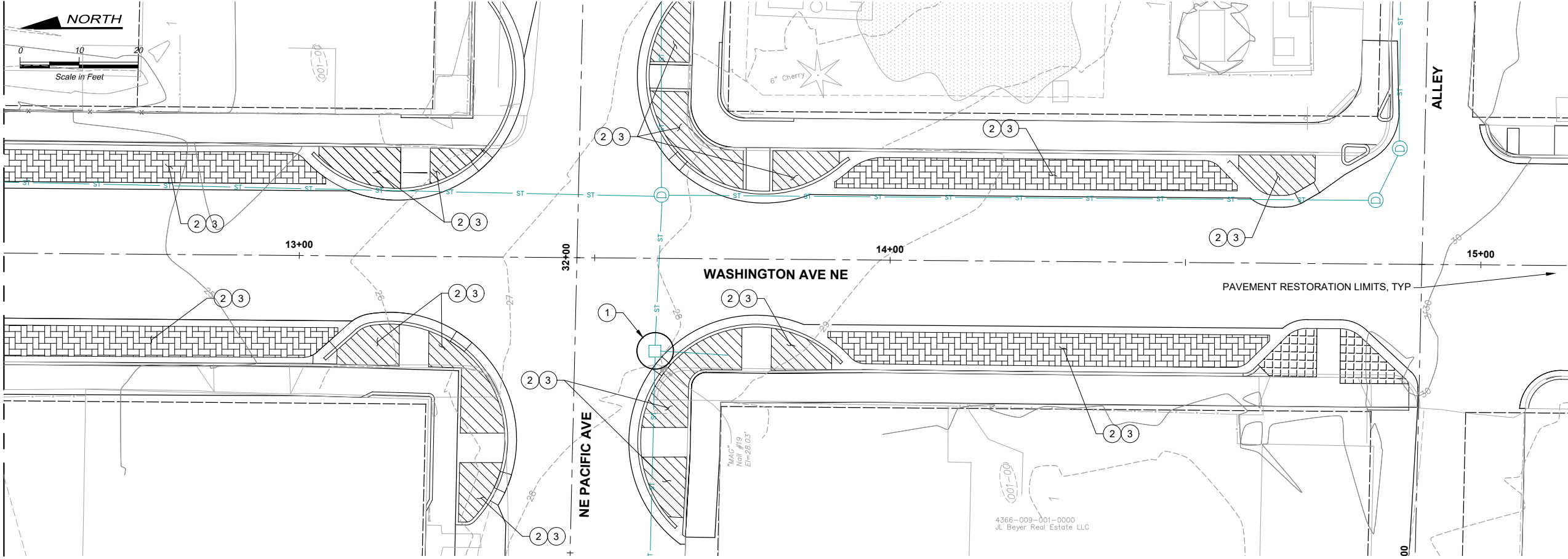
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 Seattle, Washington 98101
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 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.
 Scale: As Shown
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 If Not One Inch Scale Accordingly

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KITSAP COUNTY PS 16/67 UPGRADES
TESC PLAN
WASHINGTON AVENUE NE
 Drawing: **C-17**
 Sheet: **30** Of **101**
 File: 30-P13-10282_C-17
 Date: February 2017

SEE DWG C-20 AND C-21 FOR TESC MEASURES ON NE PACIFIC AVE



NOTES:

- 1. REFER TO SHEET G-07 FOR GENERAL EROSION CONTROL NOTES.

CONSTRUCTION NOTES:

- 1. CATCH BASIN INSERT, SEE DETAIL 1/C-01.
- 2. REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- 3. WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.

LEGEND:

- PERMEABLE PAVERS
- IMPERMEABLE PAVERS, TYPE 2
- BIORETENTION FACILITY

FILE NAME (UPDATED BY) PLOT DATE & TIME
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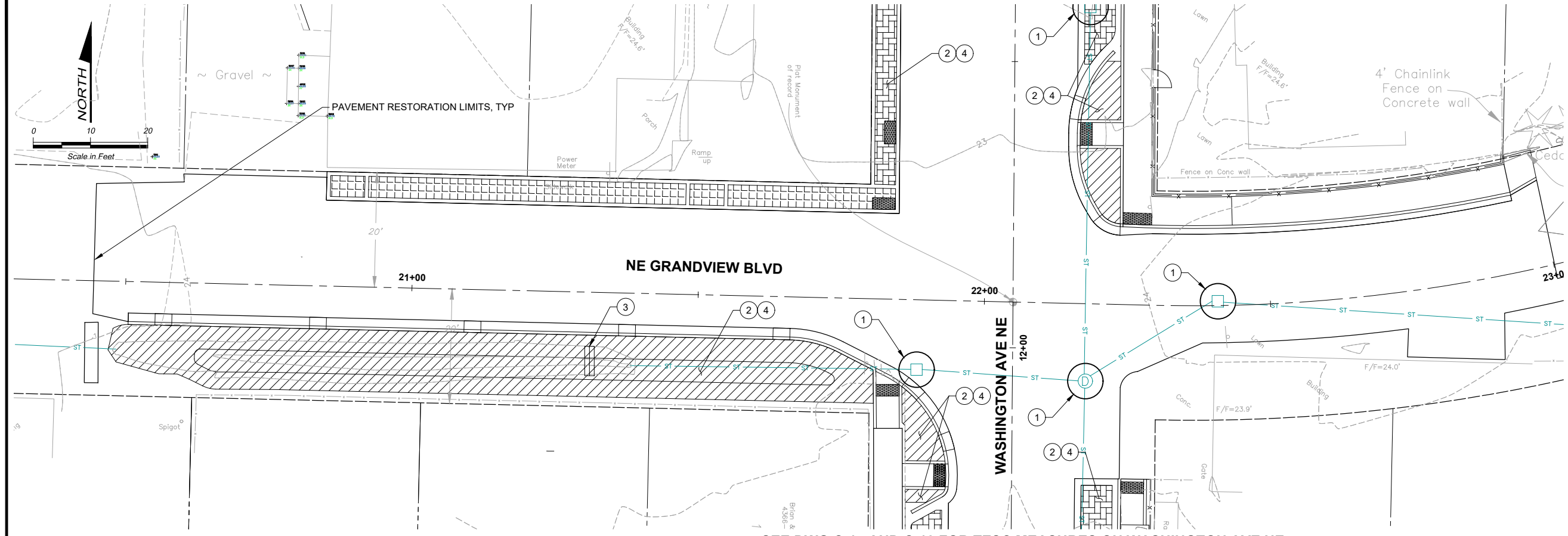
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KITSAP COUNTY PS 16/67 UPGRADES
TESC PLAN
WASHINGTON AVENUE NE

Drawing: **C-18**
 Sheet: **31** Of **101**
 File: 31-P13-10282_C-18
 Date: February 2017

RECORD DRAWING

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SEE DWG C-17 AND C-18 FOR TESC MEASURES ON WASHINGTON AVE NE

NOTES:
 1. REFER TO SHEET G-07 FOR GENERAL EROSION CONTROL NOTES.

- CONSTRUCTION NOTES:**
1. CATCH BASIN INSERT, SEE DETAIL 1/C-01.
 2. REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
 3. SILT DIKE IN EX DITCH, SEE DETAIL 2/C-01.
 4. WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.

LEGEND:

- PERMEABLE PAVERS
- BIORETENTION FACILITY
- IMPERMEABLE PAVERS, TYPE 1

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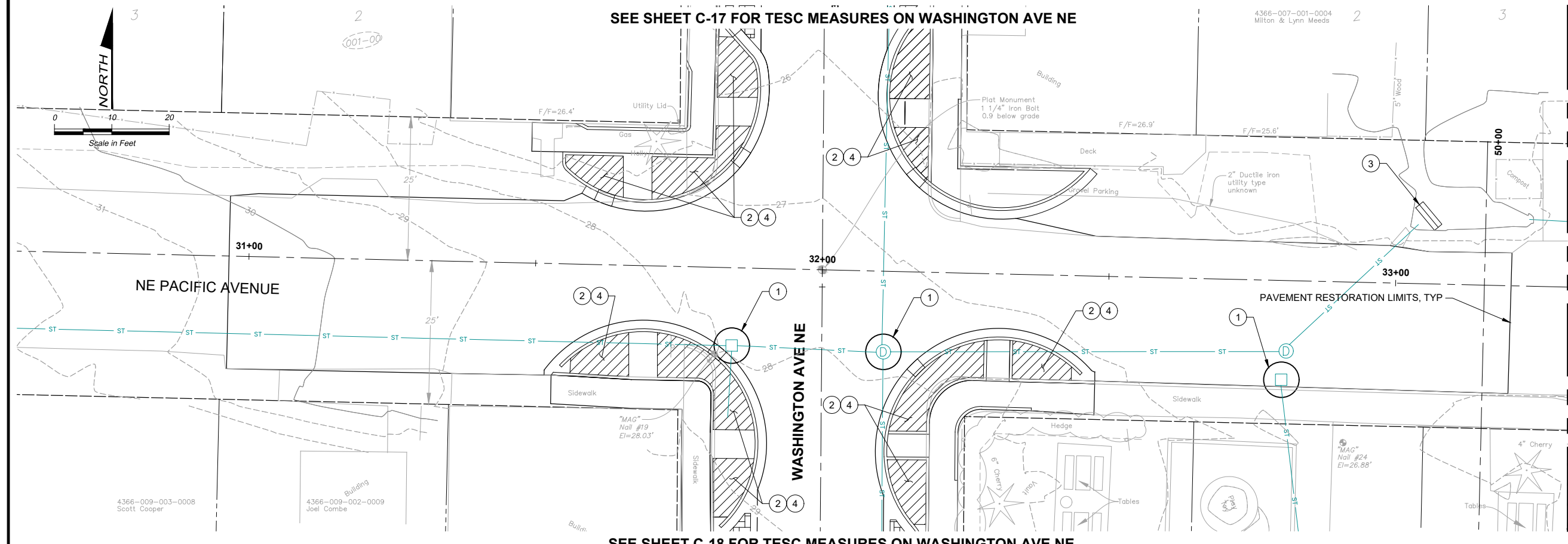
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Scale: As Shown
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KITSAP COUNTY PS 16/67 UPGRADES
TESC PLAN
NE GRANDVIEW BLVD

Drawing: **C-19**
 Sheet: **32** Of **101**
 File: 32-P13-10282_C-19
 Date: February 2017



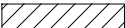
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- REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- SILT DIKE IN EX DITCH, SEE DETAIL 2/C-01.
- WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.

LEGEND:

 BIORETENTION FACILITY

FILE NAME (UPDATED BY) PLOT DATE & TIME
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No.	Revision	Date	By	App'd

HDR
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Seattle, Washington 98101
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206.505.3406 (fax)
www.bhconsultants.com

Designed: J. ERICKSON, P.E.
Drawn: P. WILHELM
Checked: J. BROWN, P.E.
Approved: R. KIRSCHBAUM, P.E.

Scale:
As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly

 **Kitsap County Public Works**
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES

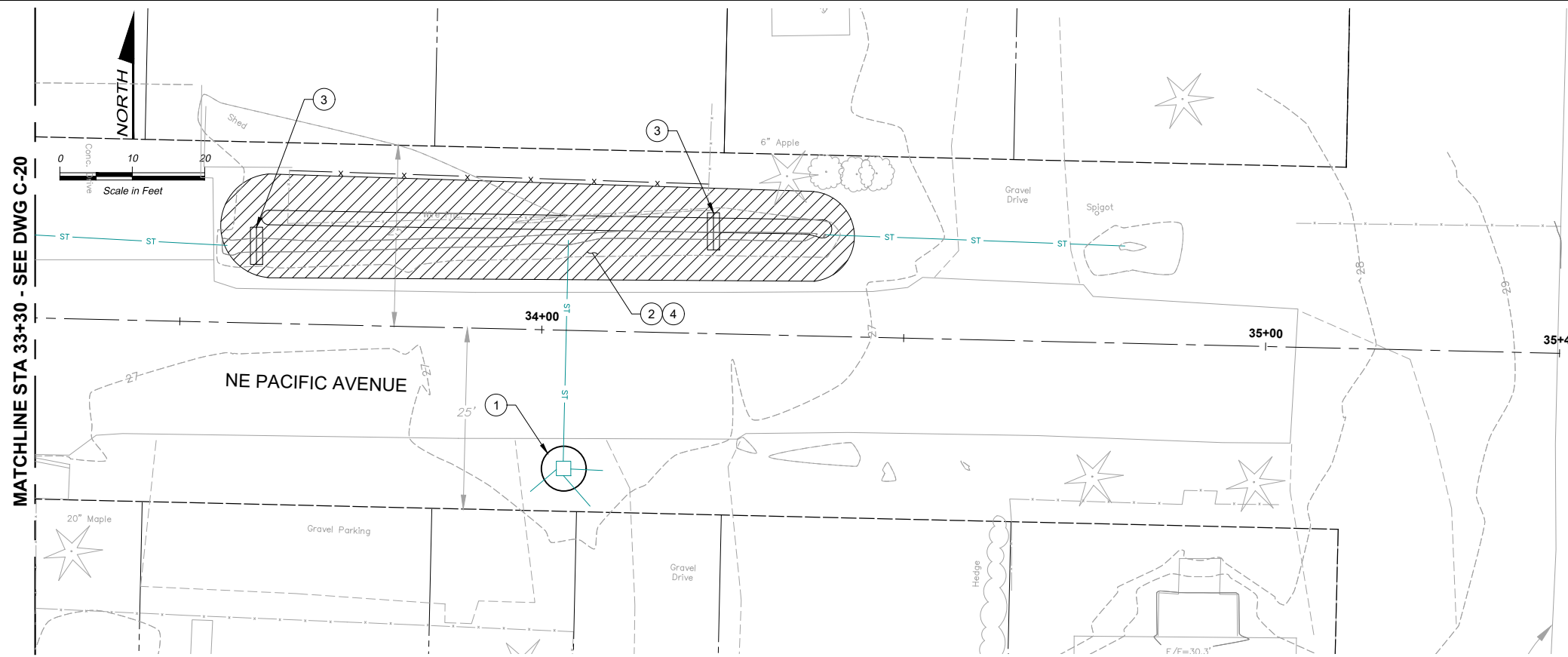
TESC PLAN
NE PACIFIC AVE

Drawing: **C-20**
Sheet: **33** Of **101**
File: 33-P13-10282_C-20
Date: February 2017

RECORD DRAWING

Call 48 Hours Before You Dig
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UNDERGROUND SERVICE

FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWGS\12-10237-01 PL_PIPES\DWG_C-20.dwg (P.S.)
 PLOT DATE & TIME APR 09 2013 07:13:40
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NOTES:

1. REFER TO SHEET G-07 FOR GENERAL EROSION CONTROL NOTES.

CONSTRUCTION NOTES:

- 1 CATCH BASIN INSERT, SEE DETAIL 1/C-01.
- 2 REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- 3 SILT DIKE IN EX DITCH, SEE DETAIL 2/C-01.
- 4 WHERE AMENDED SOILS, BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH THE COUNTY'S PROJECT REPRESENTATIVE'S REQUIREMENTS AT NO ADDITIONAL COST IN ORDER TO RESTORE THE SYSTEM'S ABILITY TO INFILTRATE.

LEGEND:

BIORETENTION FACILITY

RECORD DRAWING

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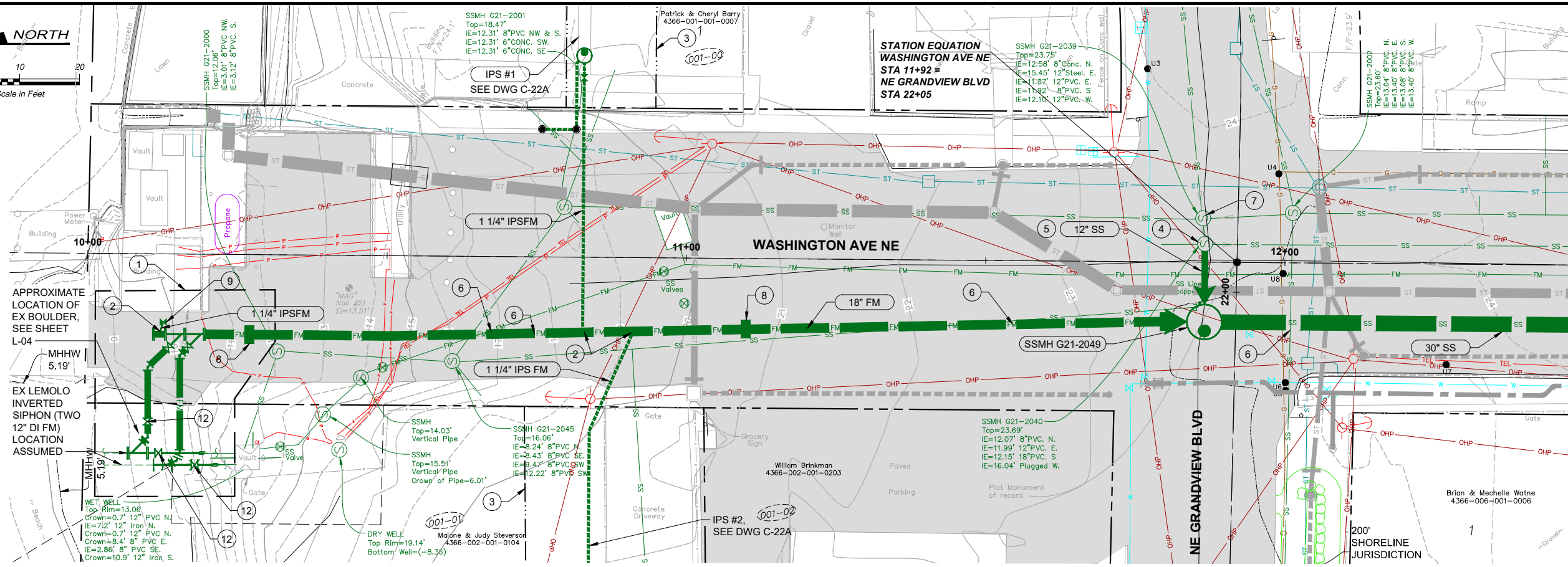
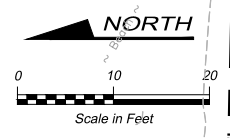
Designed: J. ERICKSON, P.E.
 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.

Scale:
 As Shown
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 If Not One Inch Scale Accordingly

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 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
TESC PLAN
NE PACIFIC AVE

Drawing: **C-21**
 Sheet: **34** Of **101**
 File: 34-P13-10282_C-21
 Date: February 2017



NOTES:

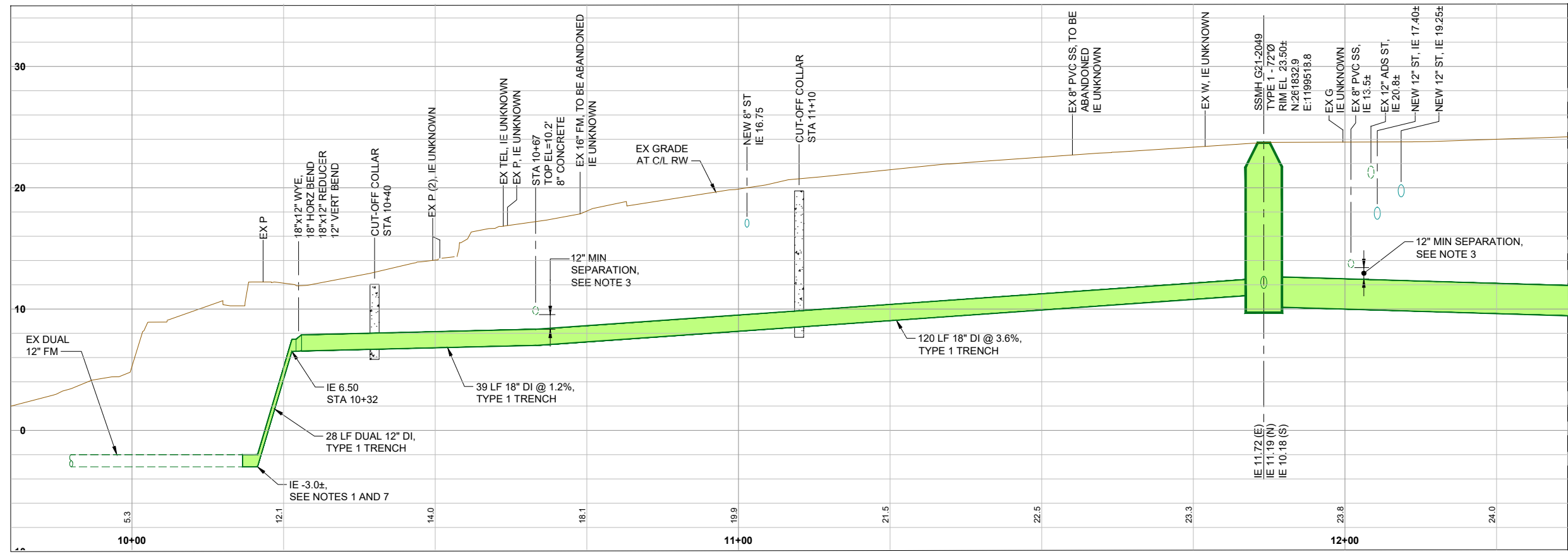
1. MAKE CONNECTION TO EX LEMOLO INVERTED SIPHON AFTER NEW CONVEYANCE PIPE HAS BEEN SUCCESSFULLY CLEANED, TESTED AND NEW PS 67 IS FULLY OPERATIONAL. CONSTRUCTION SHALL OCCUR WHEN TIDES ARE AT OR BELOW LOW TIDE CONDITIONS (EL -3.5').
2. PETROLEUM CONTAMINATED SOILS MAY BE ENCOUNTERED NORTH OF NE GRANDVIEW BLVD. MONITOR EXCAVATION FOR PETROLEUM ODORS AND NOTIFY ENGINEER IMMEDIATELY IF ANY ARE FOUND.
3. POUR CDF BETWEEN CROWN OF NEW MAIN AND INVERT OF EX SS.
4. SEE DETAIL 3/C-2 FOR TRENCH TYPE 1 DETAIL.
5. PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. LENGTHS ARE FROM MH CENTER TO MH CENTER. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH THE INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
6. ALL JOINTS ON DI FM SHALL BE RESTRAINED.
7. FOR EXCAVATIONS ON THE BEACH, STOCKPILE THE TOP 2 TO 3 FEET OF NATIVE MATERIAL AND REINSTALL IT ABOVE THE TRENCH (SUBSEQUENT) BACKFILL.

CONSTRUCTION NOTES:

- 1 LEMOLO INVERTED SIPHON CONNECTION, SEE DETAIL 1/C-23 AND CONSTRUCTION SCHEDULE CONSTRAINTS ON DRAWING G-7.
- 2 IPS FORCE MAIN CONNECTION, SEE DETAIL 2/C-4
- 3 TEMPORARY CONSTRUCTION EASEMENT
- 4 CONNECT 12" PVC GRAVITY SEWER TO EX MH AND RECHANNEL MH, IE 11.89 (W), SEE DETAIL 3/C-04
- 5 13 LF 12" PVC @ S = 0.0150 FT/FT TYPE 1 TRENCH
- 6 POT HOLE EX 16" FM AND 8" SS TO VERIFY DEPTH PRIOR TO BEGINNING CONSTRUCTION OF 18" FM. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLAN.
- 7 RECHANNEL EX MH, SEE DETAIL 4/C-04
- 8 CUT-OFF COLLAR, SEE DETAIL 2/C-03
- 9 VALVE BOX, SEE DETAIL 1/C-04
- 10 EX 8" CONCRETE FM PIPE. STA 11+83, TOP EL=14.22'
- 11 EX 8" CONCRETE FM PIPE STA 10+50, TOP EL -7.16'
- 12 CONSTRUCTION GATE VALVE. ABANDONED IN PLACE. SEE DETAIL 2/C-23.

MATCHLINE STA 12+50 - SEE DWG C-23

MATCHLINE STA 10+50 - SEE DWG C-23



FILE NAME (UPDATED BY) C:\PWORKING\SEA\00950329\SEA-9-F13-10282-C-22-23.DWG (G00)
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 PLOT DATE & TIME

RECORD DRAWING

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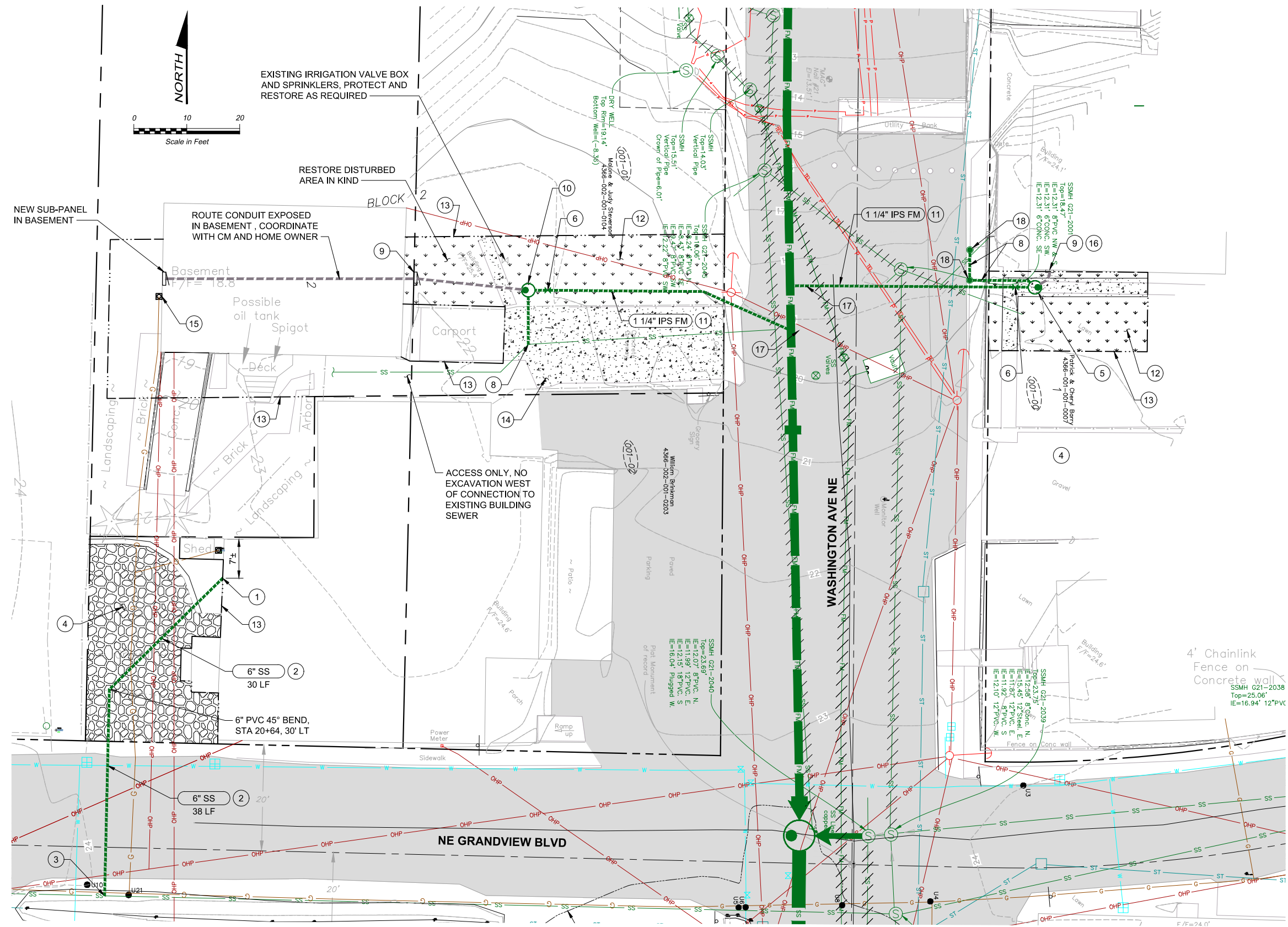
Designed: T. Fisher, P.E.
Drawn: P. Simon
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly

KITSAAP COUNTY
18 57
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
WASHINGTON AVE NE
SEWER PLAN AND PROFILE
STA 10+00 TO STA 12+50

Drawing: **C-22**
Sheet: **35** Of **101**
File: 35-F13-10282_C-22-23
Date: February 2017



- CONSTRUCTION NOTES:**
- 1 CONNECT NEW 6" SEWER TO EXISTING 4" ABS BUILDING SEWER PLUMBING USING PVC FITTINGS AS REQUIRED
 - 2 INSTALL 6" SEWER PIPE AT CONSTANT SLOPE BETWEEN CONNECTION TO EXISTING BUILDING PLUMBING AND 8" SEWER MAIN IN NE GRANDVIEW AVENUE, 0.0200 FT/FT MIN SLOPE.
 - 3 STA 20+64, 9.5' RT, CONNECT TO EXISTING 8" SEWER WITH 8" x 6" PVC TEE, TWO 8" PVC SPOOLS, AND TWO 8" COUPLINGS. BYPASS FLOWS IN EXISTING 8" SEWER AS NECESSARY TO MAKE CONNECTION. IE @ EX 8" SS = 15.05±, VERIFY
 - 4 RESTORE DISTURBED AREA WITH 4" CSTC. REMOVE EXISTING MATERIAL AS NECESSARY TO MAINTAIN EXISTING GRADES AND ELEVATIONS.
 - 5 IPS #1, SEE DETAIL 1/C-05. LOCATE IPS AS CLOSE TO HOUSE AS POSSIBLE WITH LID IN EXISTING SIDEWALK STA 10+82.7±, 47.5' LT
 - 6 VALVE BOX, SEE DETAIL 1/C-04
 - 7 CONNECT 1 1/4" IPS FM TO 18" FM, SEE DETAIL 2/C-04
 - 8 CONNECT TO EXISTING BUILDING SEWER USING 6" PVC PIPE AND FITTINGS AS REQUIRED. POT HOLE EXISTING BUILDING SEWER PRIOR TO INSTALLING IPS, TO VERIFY DEPTH, LOCATION, AND REQUIRED FITTINGS.
 - 9 CONTROL/ALARM PANEL AND 2" VENT PER DETAIL 1/C-05. COORDINATE WITH ENGINEER FOR LOCATION.
 - 10 IPS #2, SEE DETAILED 1/C-05, STA 10+84.0, 51.9' RT
 - 11 HOG, JACK, OR BORE IPS FM INTO PLACE.
 - 12 REPLACE DISTURBED LAWN WITH 4" TOPSOIL AND SOD. MAINTAIN EXISTING GRADE AND ELEVATIONS.
 - 13 TEMPORARY CONSTRUCTION EASEMENT
 - 14 REPLACE DISTURBED CONCRETE DRIVEWAY AND SIDEWALK WITH 4" CEMENT CONCRETE OVER 6" CSBC TEMPORARY CONSTRUCTION EASEMENT
 - 15 LOCATION OF EXISTING RESIDENTIAL ELECTRICAL SERVICE PANEL IS APPROXIMATE. INSTALL NEW LOADCENTER AND CABLES FROM EXISTING SERVICE PANEL TO GRINDER PUMP CONTROL/ALARM PANEL AS SHOWN OR REQUIRED. SEE SECTION 11200, SUBSECTION 2.13 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 16 EXISTING 200A ZINSCO SERVICE PANEL IS LOCATED IN A BEDROOM OPPOSITE OF THE EXISTING ELECTRICAL METER LOCATED ON THE WEST EXTERIOR WALL. REPLACE THIS SERVICE PANEL WITH NEW SERVICE PANEL AND INSTALL CABLES FROM EXISTING SERVICE PANEL TO GRINDER PUMP CONTROL/ALARM PANEL AS SHOWN OR REQUIRED. SEE SECTION 11200, SUBSECTION 2.13 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 17 IPS FORCE MAIN CONNECTION, SEE DETAIL 2/C-4
 - 18 6" CLEANOUT, SEE DETAIL 1/C-25

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No.	Revision	Date	By	App'd

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Approved: M. Harper, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
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If Not One Inch Scale Accordingly

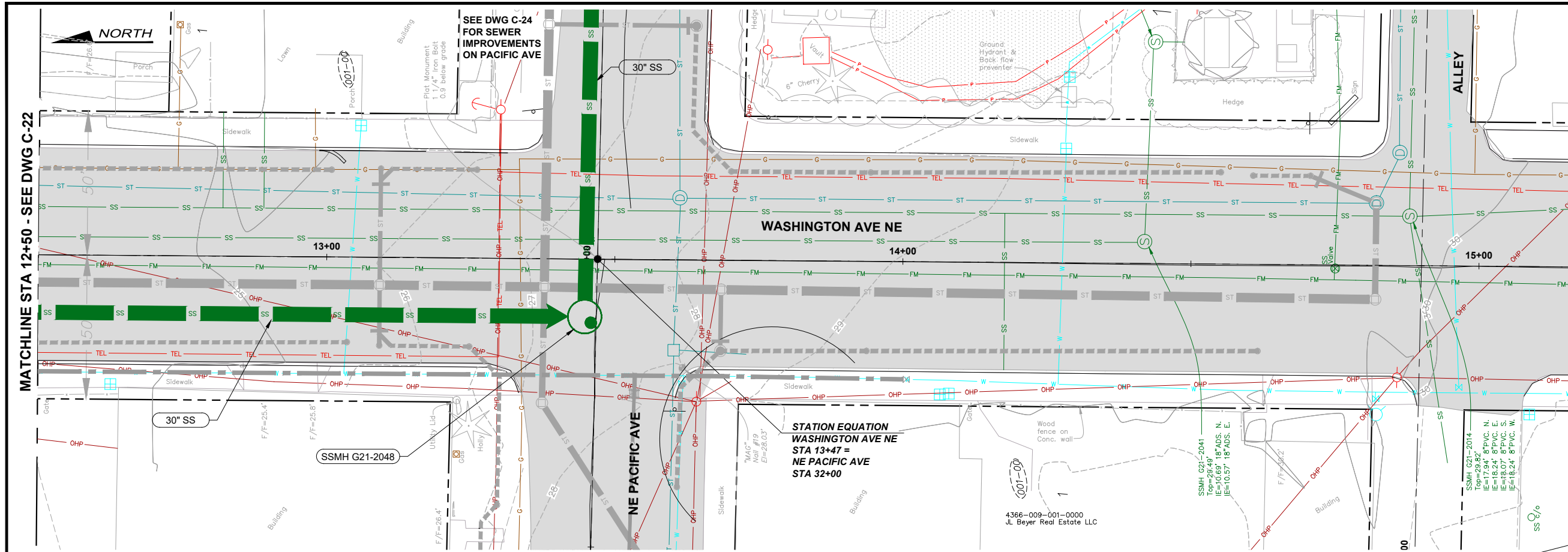
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614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
SIDE SEWER CONNECTIONS
WASHINGTON AVE NE / NE GRANDVIEW BLVD

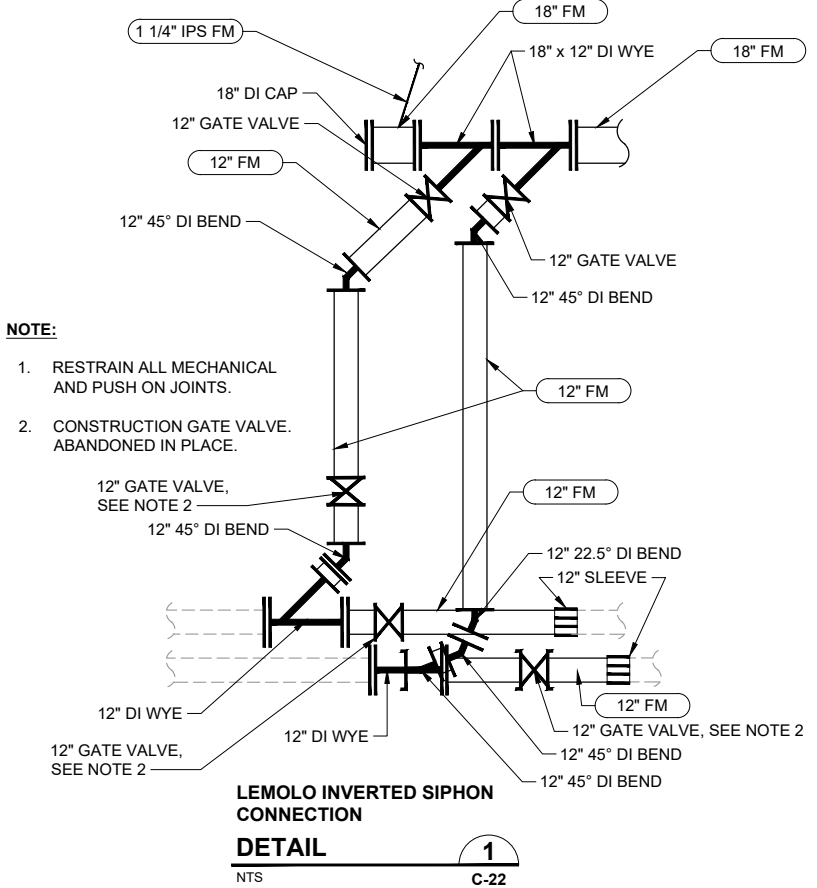
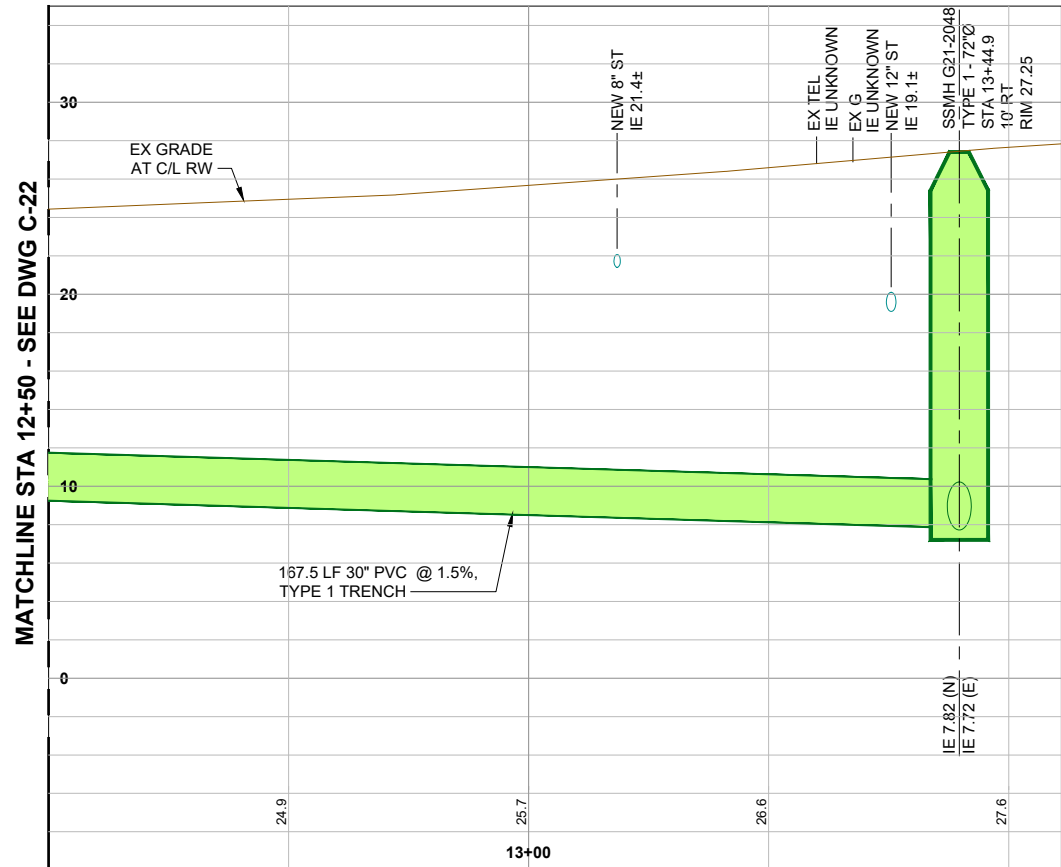
Drawing: **C-22A**
Sheet: **36** Of **101**
File: 36-P13-10282_C-22A
Date: February 2017

RECORD DRAWING

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UNDERGROUND SERVICE



- NOTES:**
- SEE DETAIL 3/C-2 FOR TRENCH TYPE 1 DETAIL.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH THE INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.



**LEMOLO INVERTED SIPHON
CONSTRUCTION GATE VALVES
DETAIL**

NTS 2 C-22

RECORD DRAWING

**Call 48 Hours
Before You Dig**

1-800-424-5555
UNDERGROUND SERVICE

FILE NAME: (UPDATED BY) C:\PWORKING\SEA\06060325_35-37-P13-10282-C-22-23.DWG (GCD) APR 23 2015 10:38:40
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No.	Revision	Date	By	App'd

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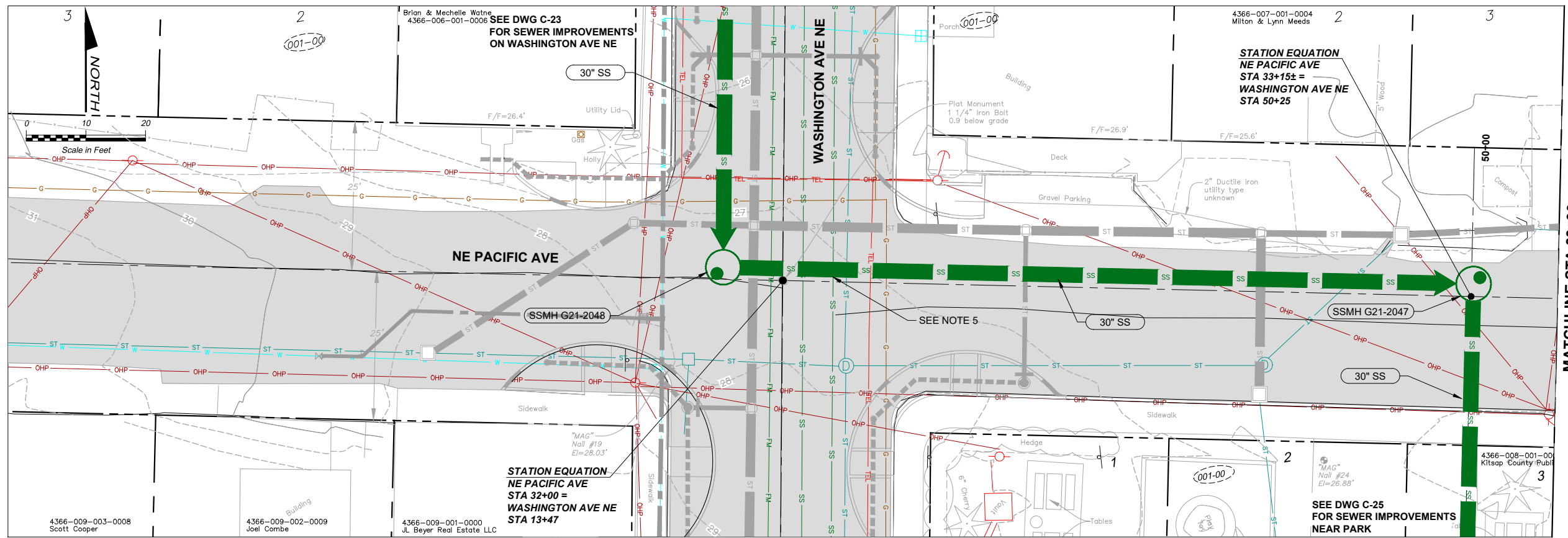
Designed: T. Fisher, P.E.
Drawn: P. Simon
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly

Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

**KITSAP COUNTY PS 16/67 UPGRADES
WASHINGTON AVE NE
SEWER PLAN AND PROFILE
STA 12+50 TO STA 13+50**

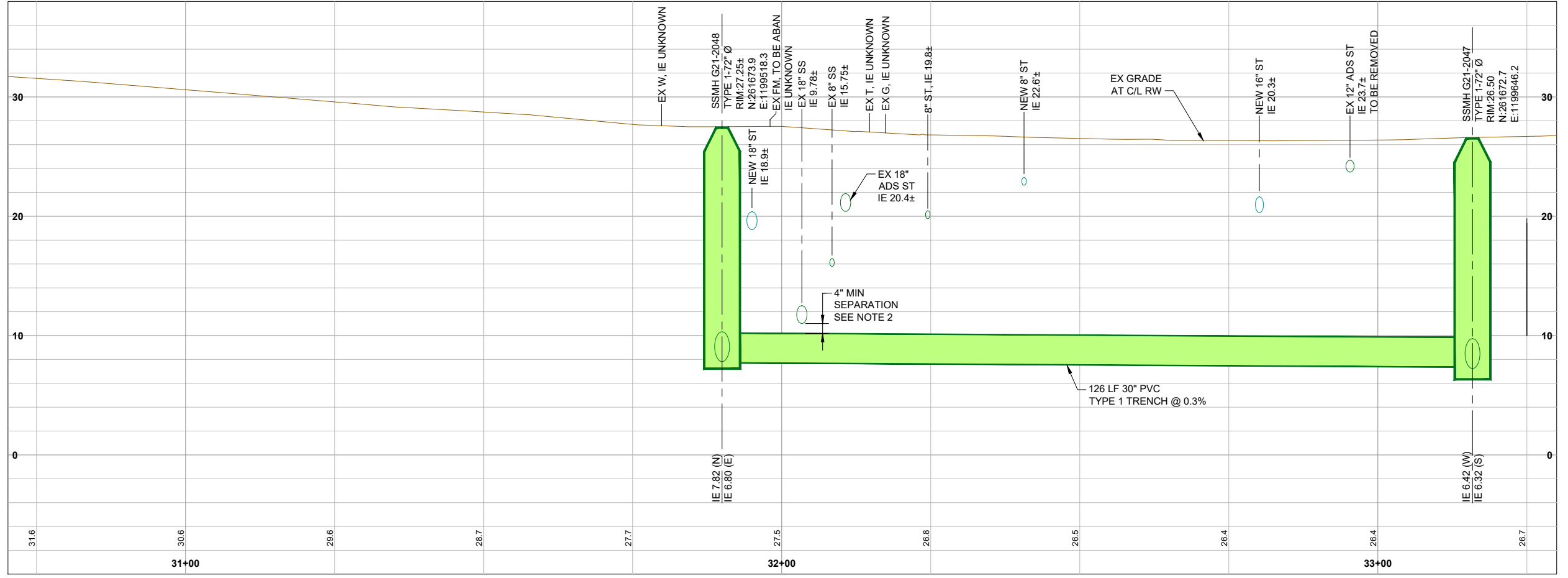
Drawing: **C-23**
Sheet: **37** Of **101**
File: 35-37-P13-10282_C-22-23
Date: February 2017



MATCHLINE STA 33+30

- NOTES:**
- COORDINATE ACCESS AND PARKING WITH MR. AND MRS. MEAD DURING WORK ON NE PACIFIC AVENUE AND WASHINGTON AVE NE.
 - POUR CDF BETWEEN CROWN OF NEW MAIN AND INVERT OF EX SS.
 - SEE DETAIL 3/C-2 FOR TRENCH TYPE 1 DETAIL.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. LENGTHS ARE FROM MH CENTER TO MH CENTER. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH THE INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
 - POTHOLE EX SS PRIOR TO SETTING SSMH G21-2048 TO VERIFY INVERT. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.



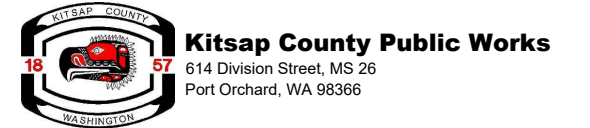
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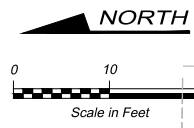
Designed: T. Fisher, P.E.
 Drawn: P. Simon
 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.



KITSAP COUNTY PS 16/67 UPGRADES
NE PACIFIC AVE
SEWER PLAN AND PROFILE
STA 31+00 TO 33+00

Drawing: **C-24**
 Sheet: **38** Of **101**
 File: 38-P13-10282_C-24
 Date: February 2017

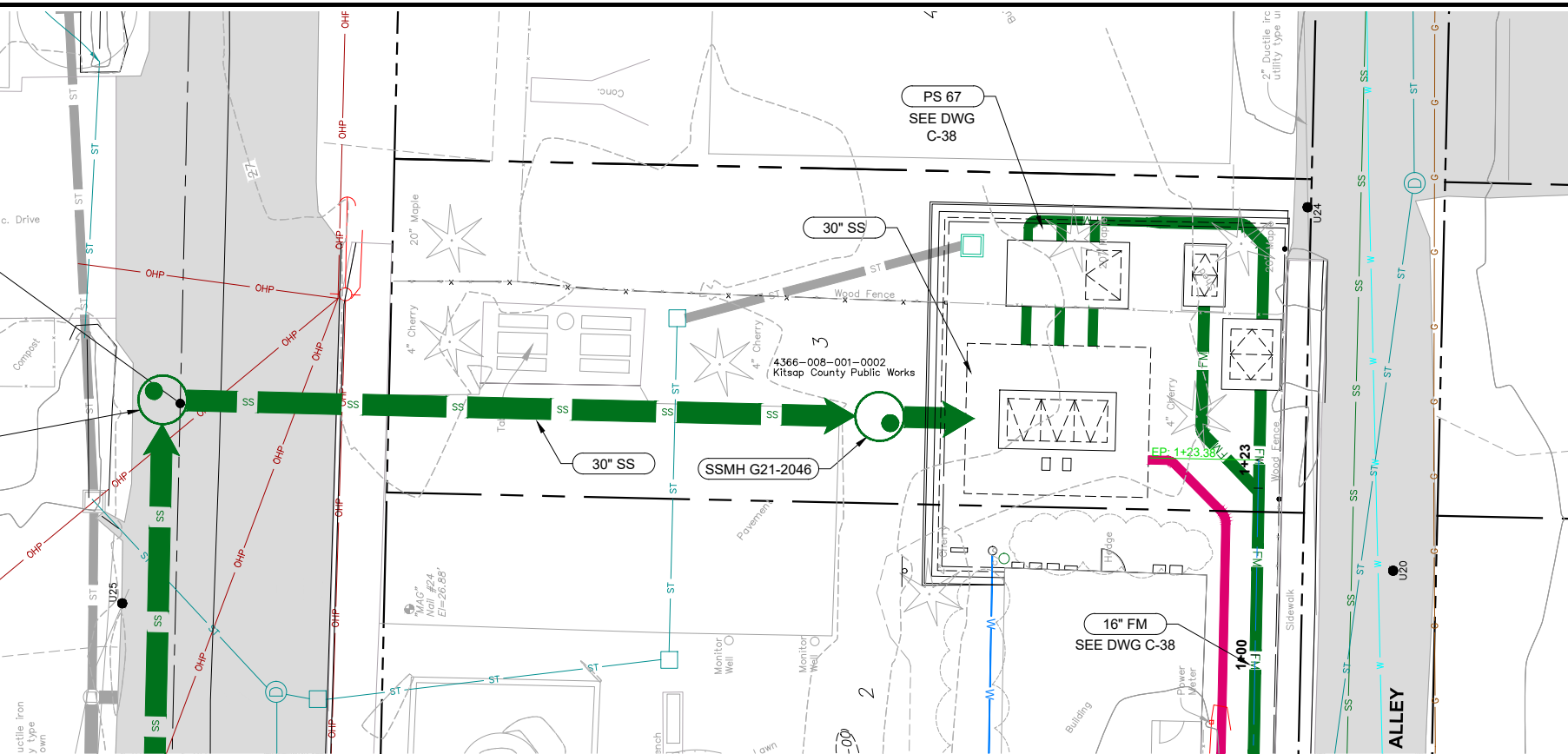
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STATION EQUATION
 PIPE ALIGNMENT
 STA 50+25 =
 NE PACIFIC AVE
 STA 33+15±

4366-007-001-0004
 Milton & Lynn Meets

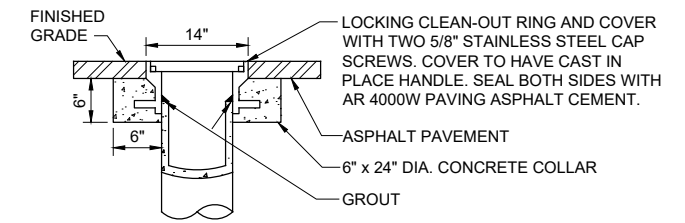
SEE DWG C-24 FOR
 SEWER IMPROVEMENTS
 ON NE PACIFIC AVE



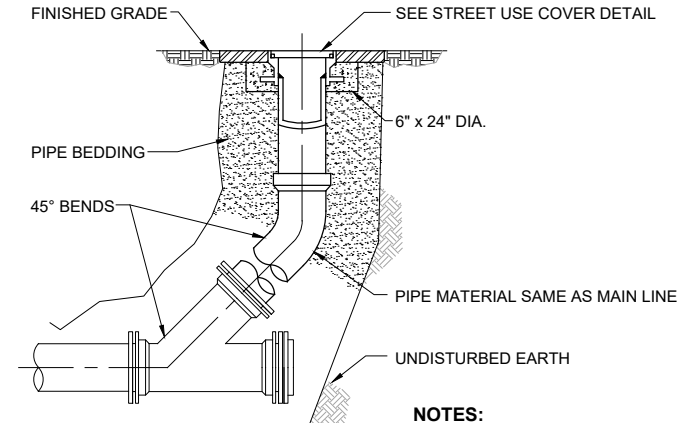
NOTES:

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NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.



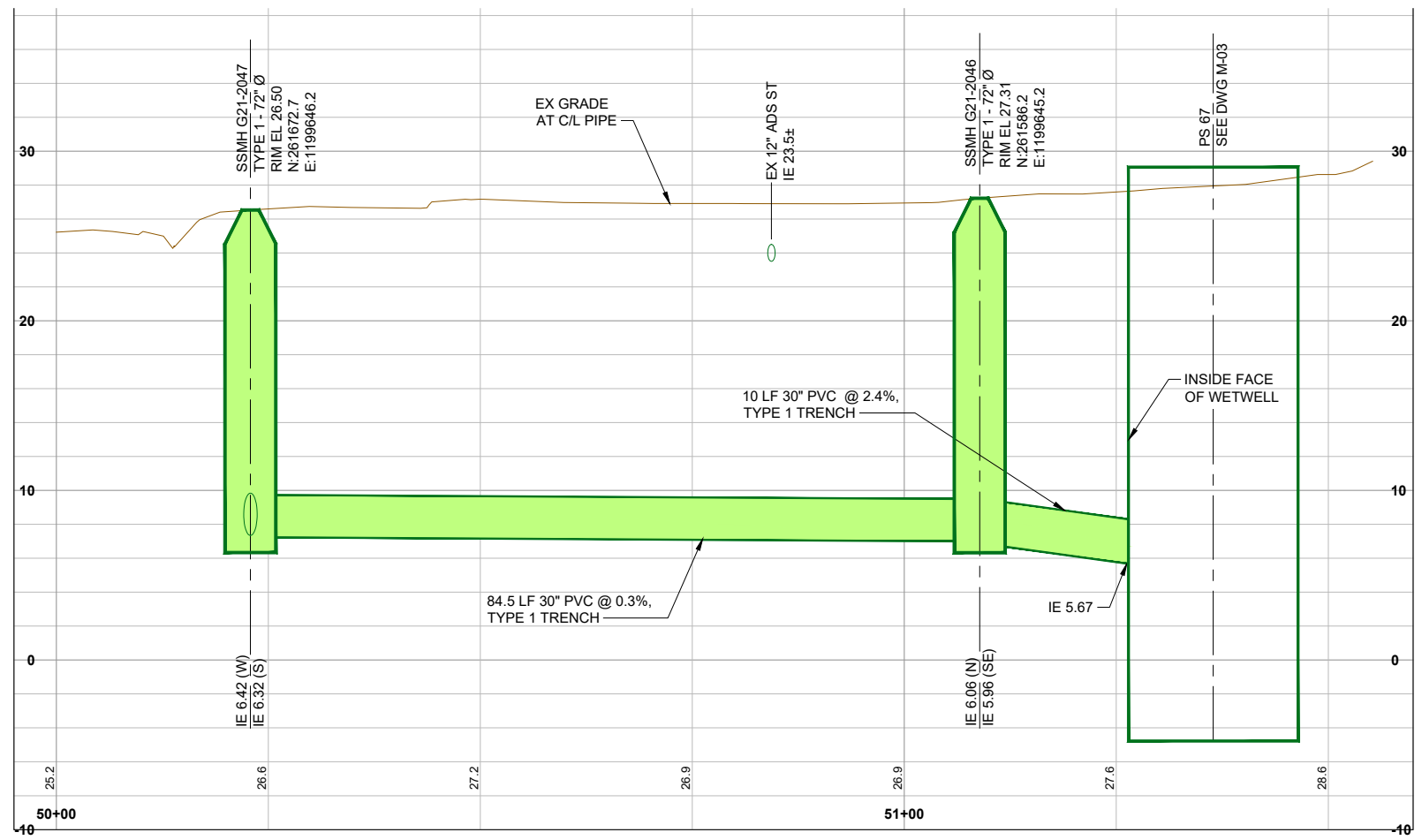
STREET USE COVER



CLEANOUT
 NTS
 3
 TYP

- NOTES:**
1. TRENCH BACKFILL SHALL BE COMPACTED AND TESTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

SEE DWG C-38 FOR SEWER IMPROVEMENTS TO PS67/ALLEY



RECORD DRAWING

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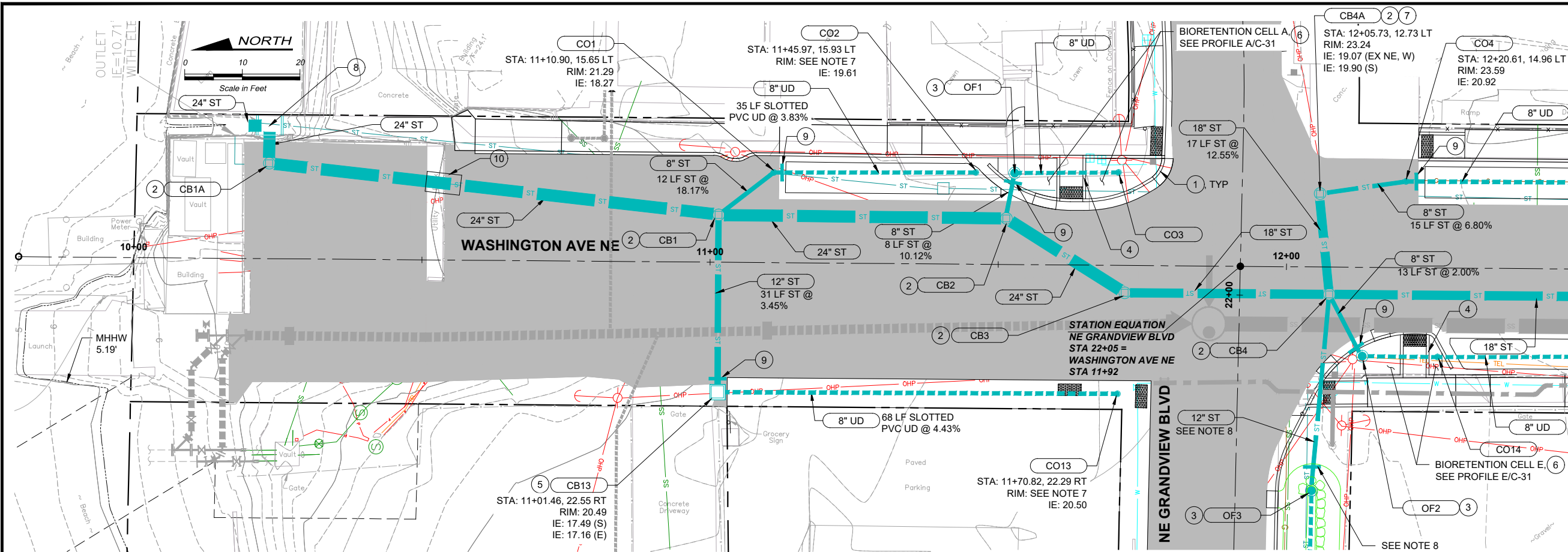
Designed: T. Fisher, P.E.
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 If Not One Inch Scale Accordingly

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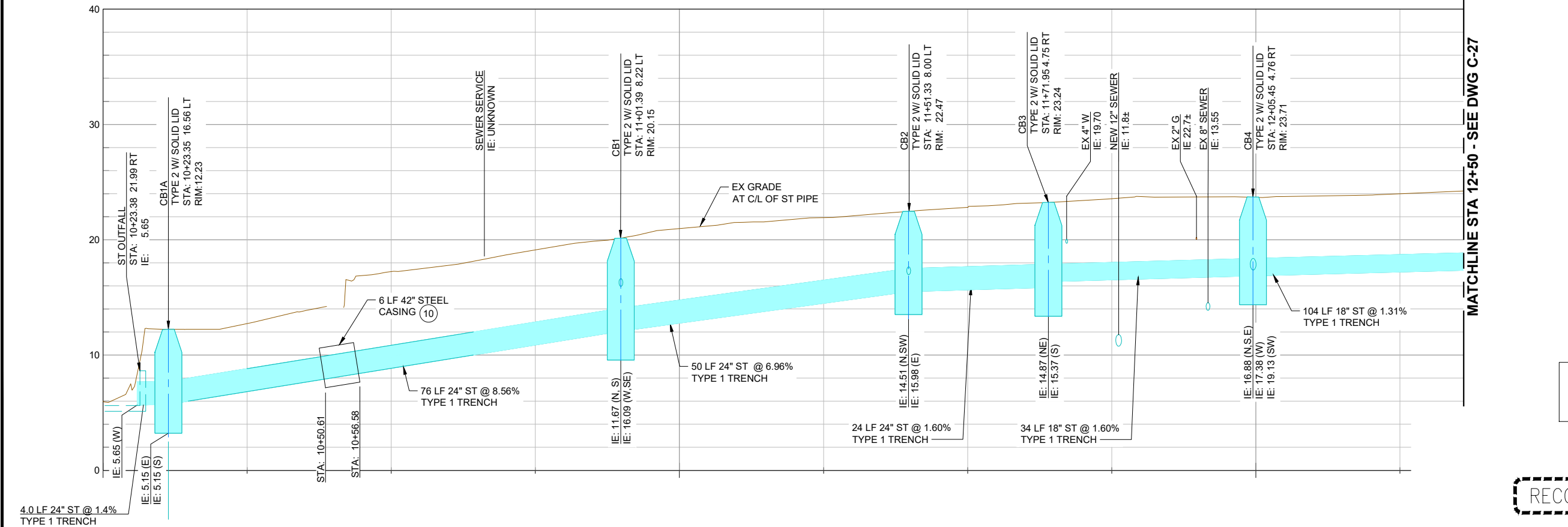
**KITSAP COUNTY PS 16/67 UPGRADES
 CENTRAL PARK
 SEWER PLAN AND PROFILE
 STA 50+00 TO PS 67**

Drawing: **C-25**
 Sheet: **39** Of **101**
 File: 39-P13-10282_C-25
 Date: February 2017



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - UNLESS OTHERWISE NOTED, ALL ST PIPE SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
 - UNLESS OTHERWISE NOTED, ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
 - FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 - EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 - SEE SHEET C-31 FOR BIORETENTION CELL PROFILES, INCLUDING RIM AND INVERT ELEVATIONS FOR OVERFLOW STRUCTURES, CLEANOUTS, AND UNDERDRAIN PIPE LENGTHS AND SLOPES.
 - SET CLEANOUT RIMS IN PAVER AREAS FLUSH WITH FINISHED PAVER SURFACES PER DETAIL 1/C-09.
 - SEE SHEET C-28 FOR DETAILED STORMWATER DESIGN INFORMATION IN NE GRANDVIEW BLVD.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
- CONSTRUCTION NOTES:**
- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-32 FOR CURB CUT TYPE AND LOCATIONS.
 - CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
 - OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
 - REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
 - CATCH BASIN TYPE 1 PER WSDOT STD DETAIL B-5.20-01 WITH VANED GRATE PER DETAIL 3/C-08.
 - BIORETENTION CELL, SEE DETAIL 1/C-07.
 - CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - STORMWATER OUTFALL, SEE DETAIL 3/C-09.
 - CUT-OFF COLLAR, SEE DETAIL 2/C-03.
 - 42" DIAMETER STEEL CASING. SLOPE TO MATCH CARRIER PIPE SLOPE AND CENTER CARRIER PIPE IN CASING.

SEE SHEET C-28 FOR STORM IMPROVEMENTS ON GRANDVIEW BLVD



- CONSTRUCTION NOTES:**
- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-32 FOR CURB CUT TYPE AND LOCATIONS.
 - CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
 - OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
 - REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
 - CATCH BASIN TYPE 1 PER WSDOT STD DETAIL B-5.20-01 WITH VANED GRATE PER DETAIL 3/C-08.
 - BIORETENTION CELL, SEE DETAIL 1/C-07.
 - CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - STORMWATER OUTFALL, SEE DETAIL 3/C-09.
 - CUT-OFF COLLAR, SEE DETAIL 2/C-03.
 - 42" DIAMETER STEEL CASING. SLOPE TO MATCH CARRIER PIPE SLOPE AND CENTER CARRIER PIPE IN CASING.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

4.0 LF 24" ST @ 1.4% TYPE 1 TRENCH

RECORD DRAWING

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1-800-424-5555
UNDERGROUND SERVICE

No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

BHC
CONSULTANTS
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhccconsultants.com

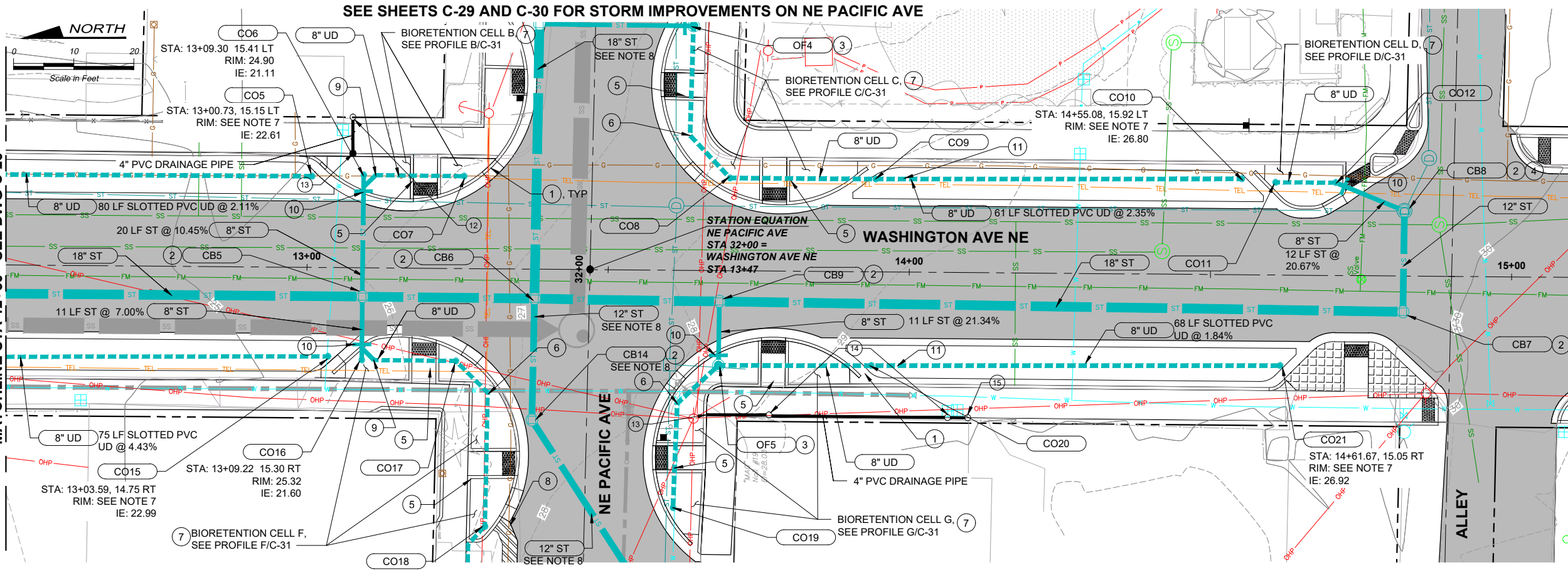
Designed: J. ERICKSON, P.E.
Drawn: P. WILHELM
Checked: J. BROWN, P.E.
Approved: R. KIRSCHBAUM, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly

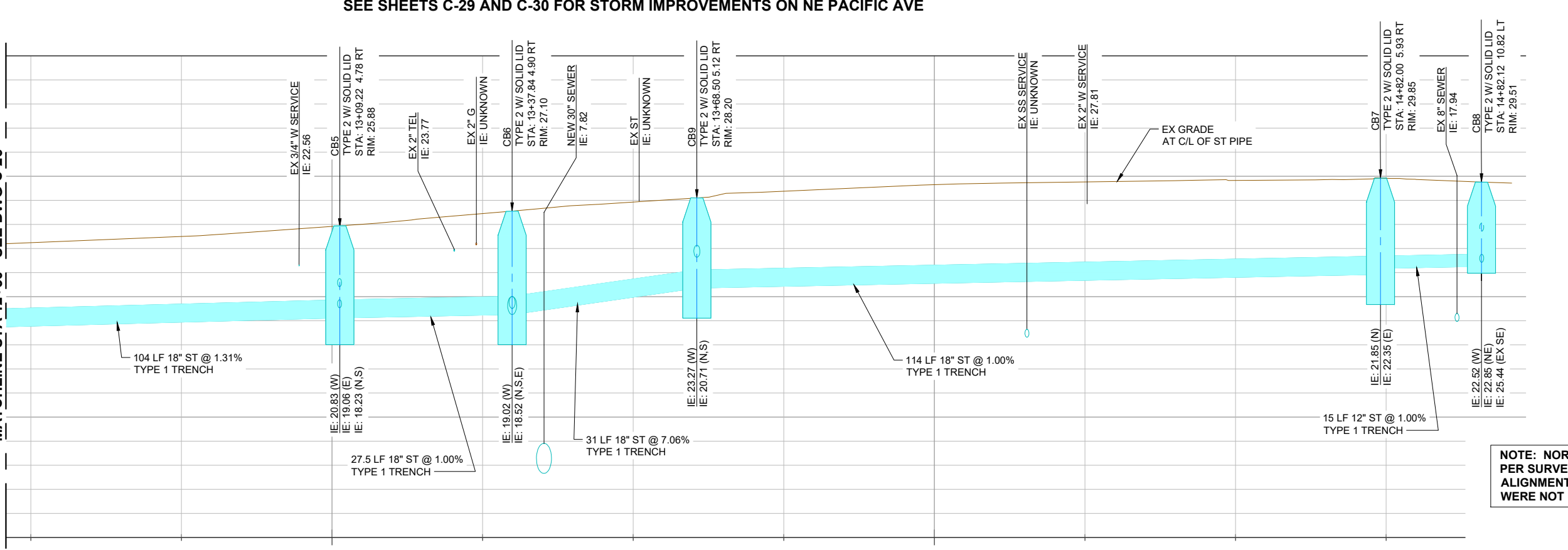
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER PLAN AND PROFILE
WASHINGTON AVE NE

Drawing: **C-26**
Sheet: **40** Of **101**
File: 40-P13-10282_C-26
Date: February 2017



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - UNLESS OTHERWISE NOTED, ALL ST PIPE SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
 - UNLESS OTHERWISE NOTED, ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
 - FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 - EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 - SEE SHEET C-31 FOR BIORETENTION CELL PROFILES, INCLUDING RIM AND INVERT ELEVATIONS FOR OVERFLOW STRUCTURES, CLEANOUTS, AND UNDERDRAIN PIPE LENGTHS AND SLOPES.
 - SET CLEANOUT RIMS IN PAVER AREAS FLUSH WITH FINISHED PAVER SURFACES PER DETAIL 1/C-09.
 - SEE SHEET C-29 FOR DETAILED STORMWATER DESIGN INFORMATION IN NE PACIFIC AVE.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
- CONSTRUCTION NOTES:**
- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-33 FOR CURB CUT TYPE AND LOCATIONS.
 - CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
 - OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
 - CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
 - 8" 45° PVC BEND.
 - BIORETENTION CELL, SEE DETAIL 1/C-07.
 - THICKENED EDGE SHALL DRAIN POSITIVELY TO NEAREST CURB CUT, SEE DETAIL 7/C-15.
 - 8" PVC WYE.
 - CUT-OFF COLLAR, SEE DETAIL 2/C-03.
 - SEE SHEET C-31 FOR LOCATIONS AND ELEVATIONS OF 22.5° VERTICAL BENDS.
 - 90° CONNECTION TO EXISTING BUILDING. CONNECT NEW DRAINAGE PIPING TO EXISTING DOWNSPOUT UTILIZING PVC DOWNSPOUT ADAPTER 4" ABOVE FINISH SIDEWALK.
 - TERMINATE 4" DRAINAGE PIPE FLUSH WITH FACE OF CONCRETE CURB. PROVIDE 4"-6" QUARRY SPALL OF CONCRETE 12"-18" SQUARE SPLASH PAD IN BIOCELL.
 - WYE CONNECTION TO EXISTING BUILDING. CONNECT NEW DRAINAGE PIPING TO EXISTING DOWNSPOUT UTILIZING PVC DOWNSPOUT ADAPTER 4" ABOVE FINISH SIDEWALK.
 - 4" CLEANOUT, SIMILAR TO DETAIL 1/C-09.



- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-33 FOR CURB CUT TYPE AND LOCATIONS.
- CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
- OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
- CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
- 8" 45° PVC BEND.
- BIORETENTION CELL, SEE DETAIL 1/C-07.
- THICKENED EDGE SHALL DRAIN POSITIVELY TO NEAREST CURB CUT, SEE DETAIL 7/C-15.
- 8" PVC WYE.
- CUT-OFF COLLAR, SEE DETAIL 2/C-03.
- SEE SHEET C-31 FOR LOCATIONS AND ELEVATIONS OF 22.5° VERTICAL BENDS.
- 90° CONNECTION TO EXISTING BUILDING. CONNECT NEW DRAINAGE PIPING TO EXISTING DOWNSPOUT UTILIZING PVC DOWNSPOUT ADAPTER 4" ABOVE FINISH SIDEWALK.
- TERMINATE 4" DRAINAGE PIPE FLUSH WITH FACE OF CONCRETE CURB. PROVIDE 4"-6" QUARRY SPALL OF CONCRETE 12"-18" SQUARE SPLASH PAD IN BIOCELL.
- WYE CONNECTION TO EXISTING BUILDING. CONNECT NEW DRAINAGE PIPING TO EXISTING DOWNSPOUT UTILIZING PVC DOWNSPOUT ADAPTER 4" ABOVE FINISH SIDEWALK.
- 4" CLEANOUT, SIMILAR TO DETAIL 1/C-09.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

RECORD DRAWING

Call 48 Hours Before You Dig

1-800-424-5555
UNDERGROUND SERVICE

FILE NAME: (UPDATED BY) PLOT DATE & TIME
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APR 09 2013 07:13:40
XREFS: X12-10237-01R_PP_Silverdale, X12-10237-01R_PP_Silverdale, X12-10237-01R_PP_Silverdale, X12-10237-01R_PP_Silverdale, X12-10237-01R_PP_Silverdale

No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

BHC CONSULTANTS
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhconsultants.com

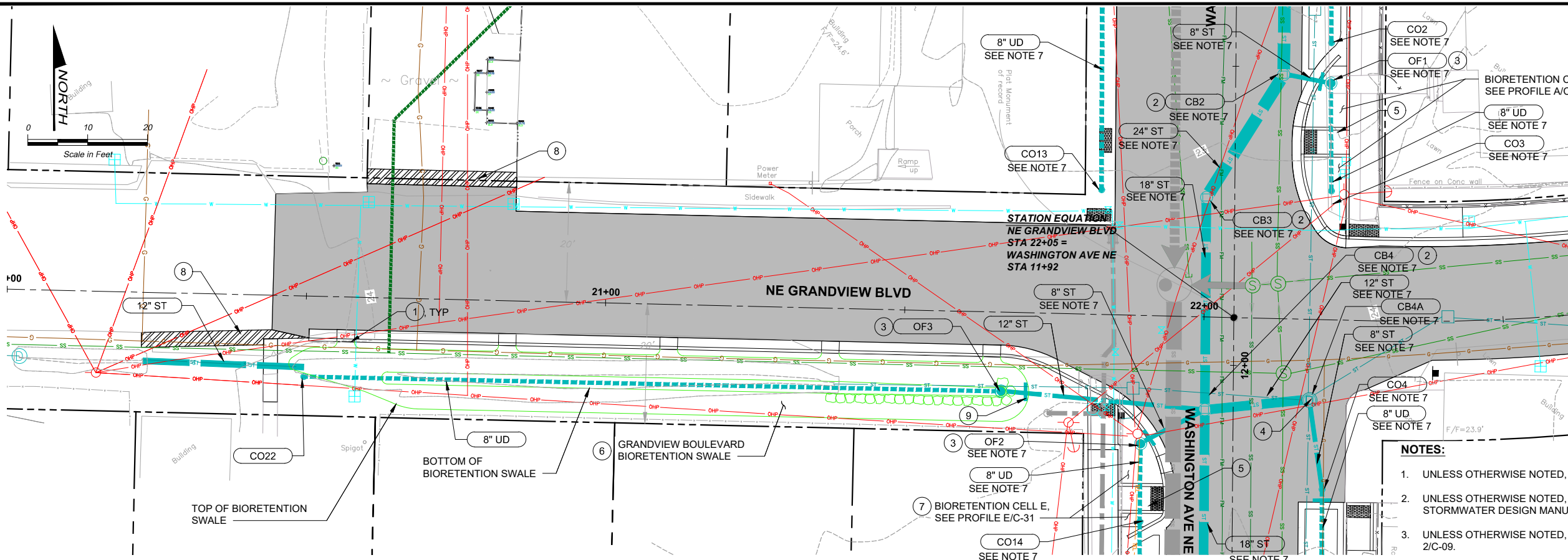
Designed: J. ERICKSON, P.E.
Drawn: P. WILHELM
Checked: J. BROWN, P.E.
Approved: R. KIRSCHBAUM, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly

Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER PLAN AND PROFILE
WASHINGTON AVE NE

Drawing: **C-27**
Sheet: **41** Of **101**
File: 41-P13-10282_C-27
Date: February 2017



NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

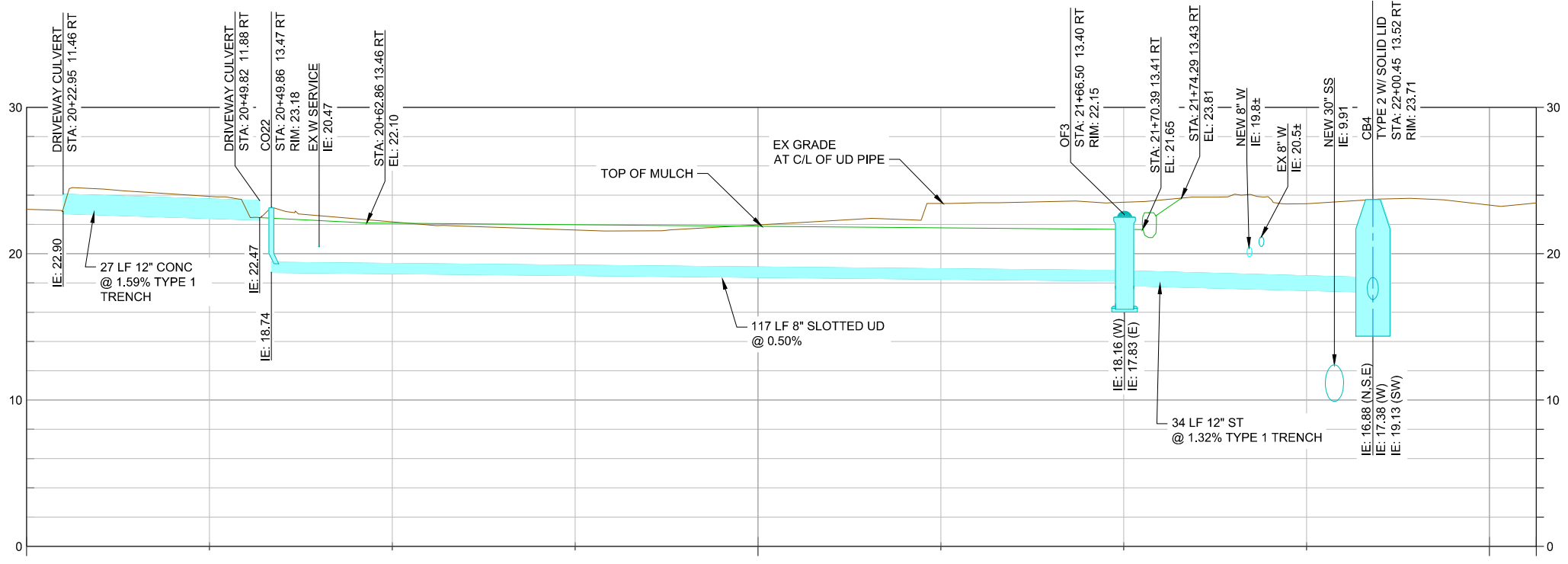
SEE SHEET C-26 AND C-27 FOR STORM IMPROVEMENTS ON WASHINGTON AVE

NOTES:

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
- UNLESS OTHERWISE NOTED, ALL SD PIPE MATERIAL SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
- UNLESS OTHERWISE NOTED, ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
- FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
- EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
- SEE SHEET C-31 FOR BIORETENTION CELL PROFILES, INCLUDING RIM AND INVERT ELEVATIONS FOR OVERFLOW STRUCTURES, CLEANOUTS, AND UNDERDRAIN PIPE LENGTHS AND SLOPES.
- SEE SHEET C-26 FOR DETAILED STORMWATER DESIGN INFORMATION IN WASHINGTON AVENUE NE.
- PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.

CONSTRUCTION NOTES:

- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-28 FOR CURB CUT TYPE AND LOCATION.
- CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
- OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
- CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
- BIORETENTION SWALE, FROM STA 20+48 TO STA 21+37 PER DETAIL 2/C-07 AND FROM STA 21+37 TO STA 21+71 PER DETAIL 4/C-07
- BIORETENTION CELL, SEE DETAIL 1/C-07.
- THICKENED EDGE SHALL DRAIN POSITIVELY TO NEAREST CURB CUT, SEE DETAIL 7/C-15.
- CUT-OFF COLLAR, SEE DETAIL 2/C-03.



FILE NAME (UPDATED BY) PLOT DATE & TIME
 S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_PP_SD.DWG (R.S.) APR 09 2013 07:13:40
 XREFS: X12-10237-01PL_PP_Silverdale, X12-10237-01PL_Ex_Topo_Silverdale, X12-10237-01PL_Prelim, X12-10237-01PL_IB

No.	Revision	Date	By	App'd



Designed: J. ERICKSON, P.E.
 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.

Scale:
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 If Not One Inch Scale Accordingly



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 UNDERGROUND SERVICE

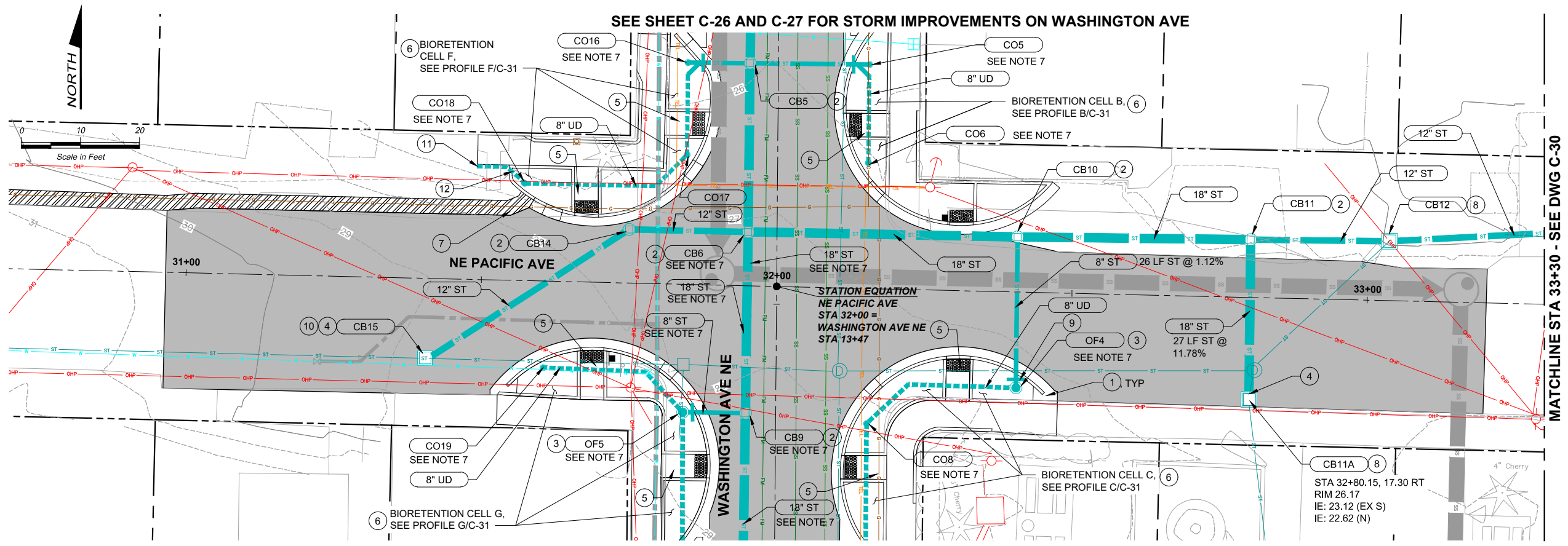
KITSAP COUNTY PS 16/67 UPGRADES

STORMWATER PLAN AND PROFILES
NE GRANDVIEW BLVD

Drawing: **C-28**
 Sheet: **42** Of **101**
 File: 42-P13-10282_C-28
 Date: February 2017



FILE NAME (UPDATED BY) PLOT DATE & TIME
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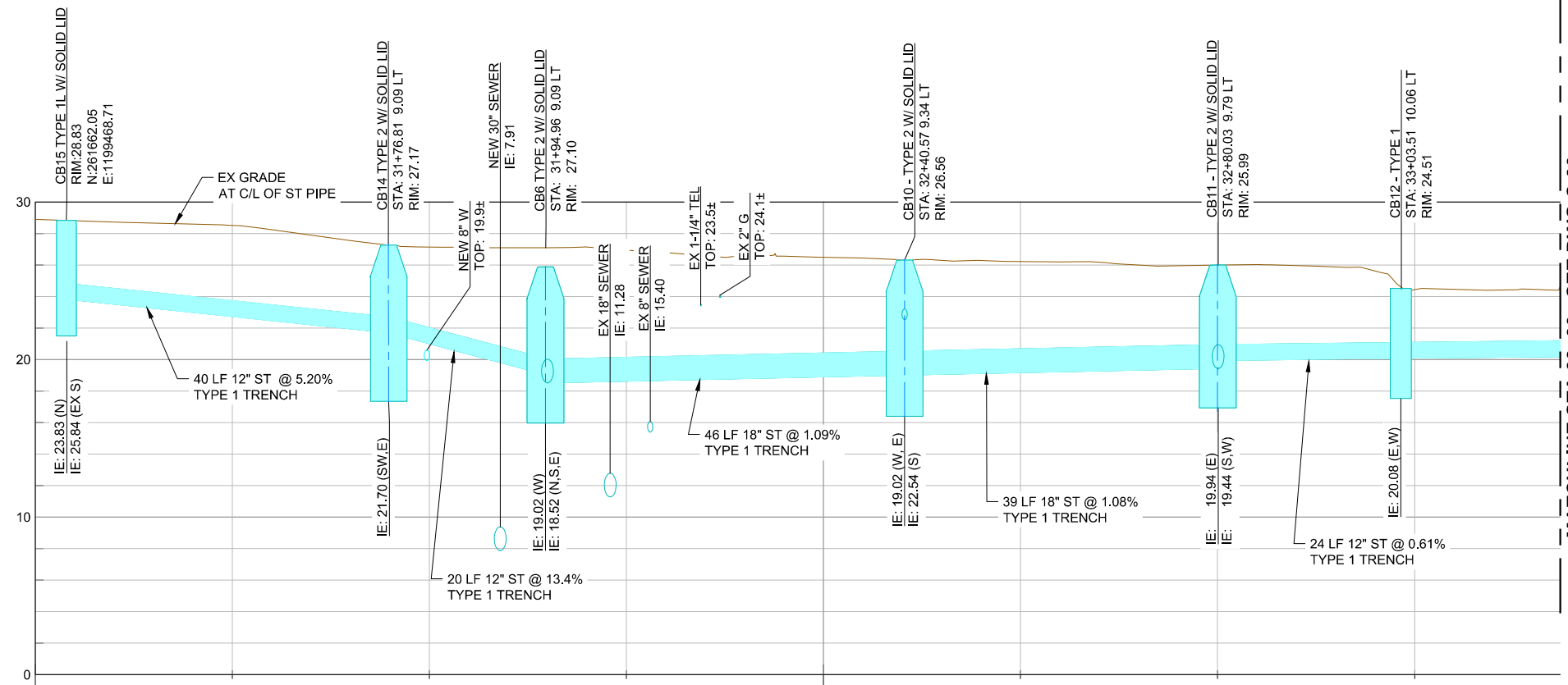


SEE SHEET C-26 AND C-27 FOR STORM IMPROVEMENTS ON WASHINGTON AVE

SEE SHEET C-26 AND C-27 FOR STORM IMPROVEMENTS ON WASHINGTON AVE

MATCHLINE STA 33+30 - SEE DWG C-30

MATCHLINE STA 33+30 - SEE DWG C-30



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - UNLESS OTHERWISE NOTED, ALL SD PIPE MATERIAL SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
 - UNLESS OTHERWISE NOTED, ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
 - FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 - EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 - SEE SHEET C-31 FOR BIORETENTION CELL PROFILES, INCLUDING RIM AND INVERT ELEVATIONS FOR OVERFLOW STRUCTURES, CLEANOUTS, AND UNDERDRAIN PIPE LENGTHS AND SLOPES.
 - SEE SHEETS C-26 AND C-27 FOR DETAILED STORMWATER DESIGN INFORMATION IN WASHINGTON AVENUE NE.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.

- CONSTRUCTION NOTES:**
- ROADWAY GRADING SHALL PROVIDE POSITIVE DRAINAGE THROUGH CURB CUTS. SEE SHEET C-35 FOR CURB CUT TYPE AND LOCATION.
 - CATCH BASIN TYPE 2 PER WSDOT STD DETAIL B-10.20-01 WITH SOLID LID PER DETAIL 1/C-08.
 - OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
 - CONNECT EXISTING STORM DRAIN PIPE TO NEW CATCH BASIN. FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
 - BIORETENTION CELL, SEE DETAIL 1/C-07.
 - THICKENED EDGE SHALL DRAIN POSITIVELY TO NEAREST CURB CUT, SEE DETAIL 7/C-15.
 - CATCH BASIN TYPE 1 PER WSDOT STD DETAIL B-5.20-01 WITH VANED GRATE PER DETAIL 3/C-08.
 - CUT-OFF COLLAR, SEE DETAIL 2/C-03.
 - CATCH BASIN TYPE 1L PER WSDOT STD DETAIL B-5.40-01 WITH SOLID LID PER DETAIL 4/C-08.
 - 5' LONG CHANNEL DRAIN WITH 4" OUTLET, SET 1/4" BELOW SOUTH EDGE OF THE NEW SIDEWALK.
 - 4" PVC DRAINAGE PIPE CONNECTED TO CO18.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

RECORD DRAWING

Call 48 Hours Before You Dig
 1-800-424-5555
 UNDERGROUND SERVICE



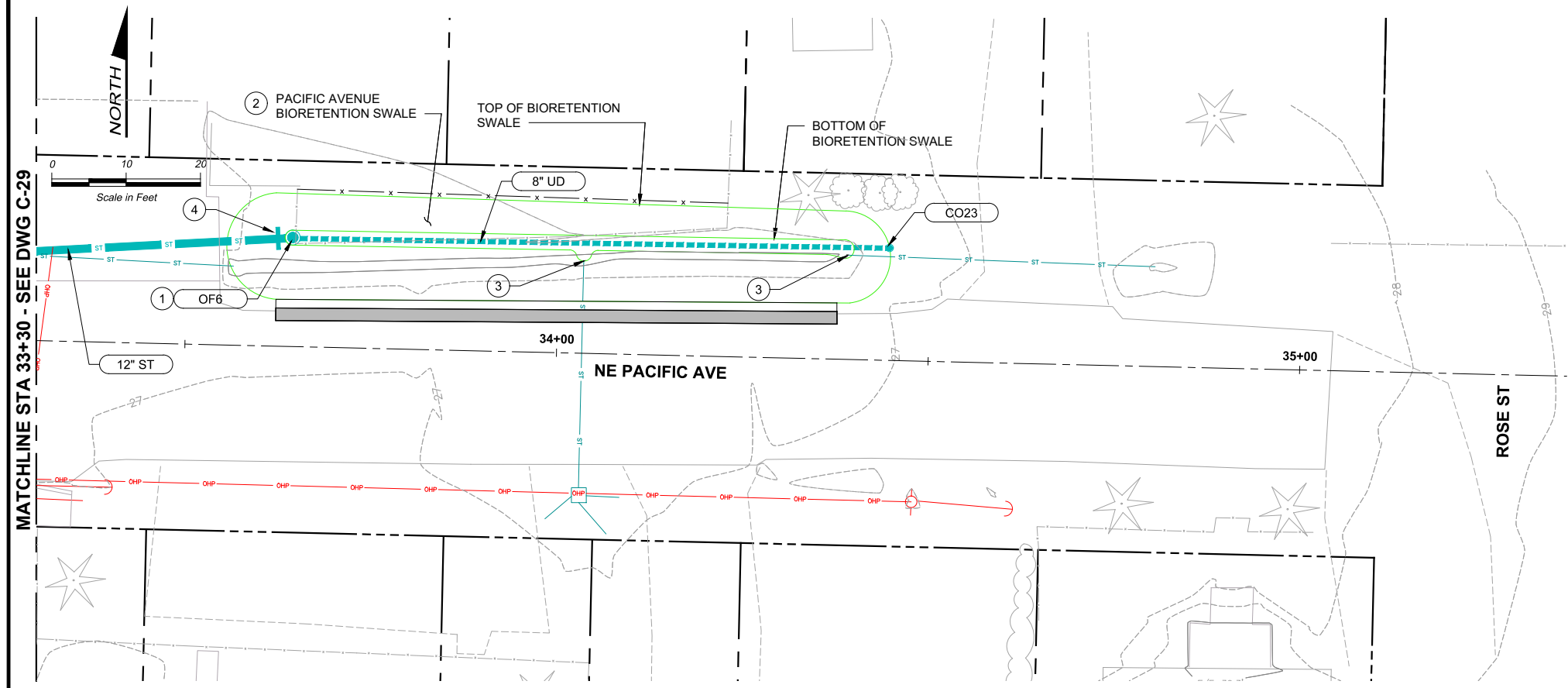
Designed: J. ERICKSON, P.E.
 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
STORMWATER PLAN AND PROFILES
NE PACIFIC AVE

Drawing: **C-29**
 Sheet: **43** Of **101**
 File: 43-P13-10282_C-29
 Date: February 2017

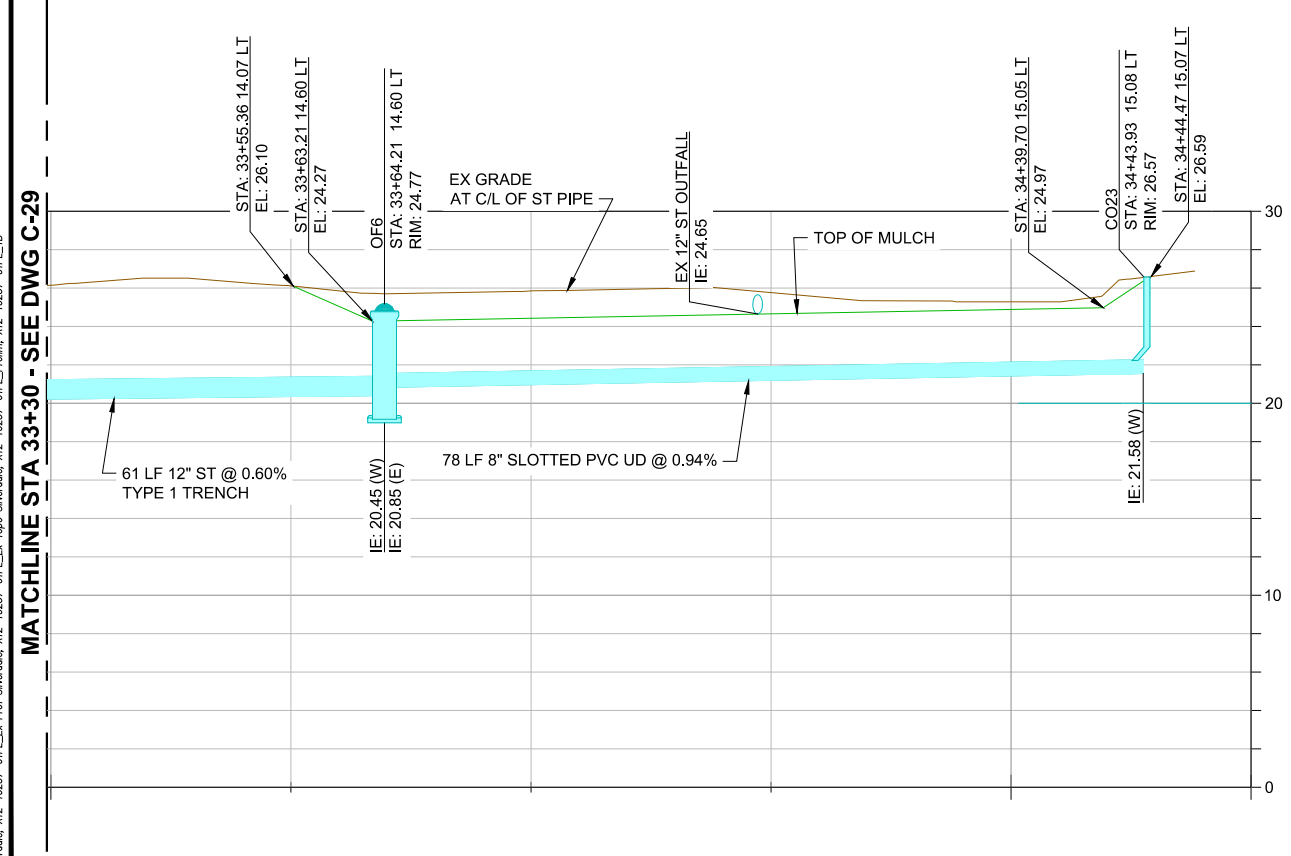


NOTES:

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. UNLESS OTHERWISE NOTED, ALL SD PIPE MATERIAL SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
3. UNLESS OTHERWISE NOTED, ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
4. FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
5. EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
6. PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.

CONSTRUCTION NOTES:

- ① OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
- ② BIORETENTION SWALE, SEE DETAIL 2/C-07.
- ③ EXISTING ST OUTFALL PIPE. DAYLIGHT OUTFALL PIPE IN BIORETENTION SWALE SIDE SLOPE AND PROVIDE 12" WIDE BY 12" LONG BY 6" DEEP STREAMBED COBBLES SPLASH PAD. EXTEND STREAMBED COBBLES 6" ABOVE TOP OF PIPE.
- ④ CUT-OFF COLLAR, SEE DETAIL 2/C-03



MATCHLINE STA 33+30 - SEE DWG C-29

MATCHLINE STA 33+30 - SEE DWG C-29

RECORD DRAWING

**Call 48 Hours
Before You Dig**
1-800-424-5555
UNDERGROUND SERVICE

FILE NAME (UPDATED BY) : PLOT DATE & TIME :
 S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWGS\12-10237-01 PL PP-SU.DWG (R.S.) : APR 09 2017 07:13:40
 XREFS: X12-10237-01 PL-Prop: Siverdale, X12-10237-01 PL-Prop: Siverdale, X12-10237-01 PL-Prop: Siverdale, X12-10237-01 PL-Prop: Siverdale



Designed: J. ERICKSON, P.E.
 Drawn: P. WILHELM
 Checked: J. BROWN, P.E.
 Approved: R. KIRSCHBAUM, P.E.

Scale:
 Horiz: 1"=10'-0"
 Vert: 1"=5'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



KITSAP COUNTY PS 16/67 UPGRADES

STORMWATER PLAN AND PROFILES

NE PACIFIC AVE

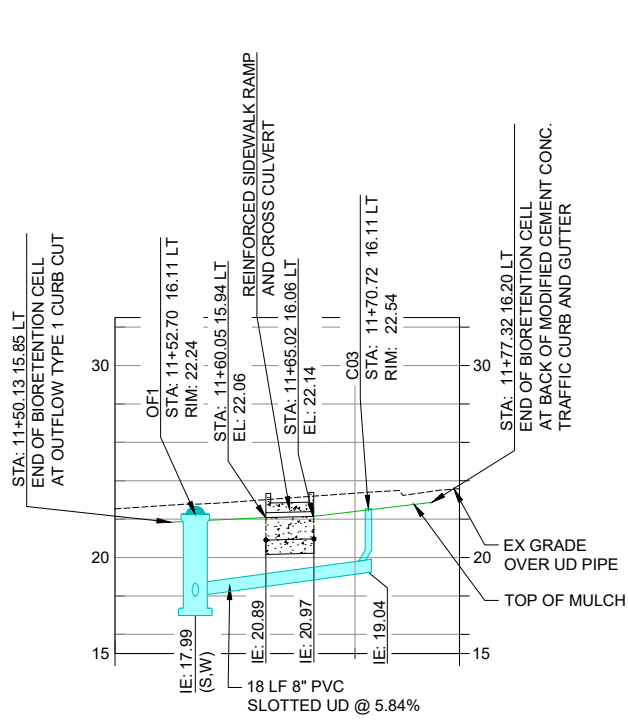
Drawing: **C-30**

Sheet: **44** Of **101**

File: 44-P13-10282_C-30

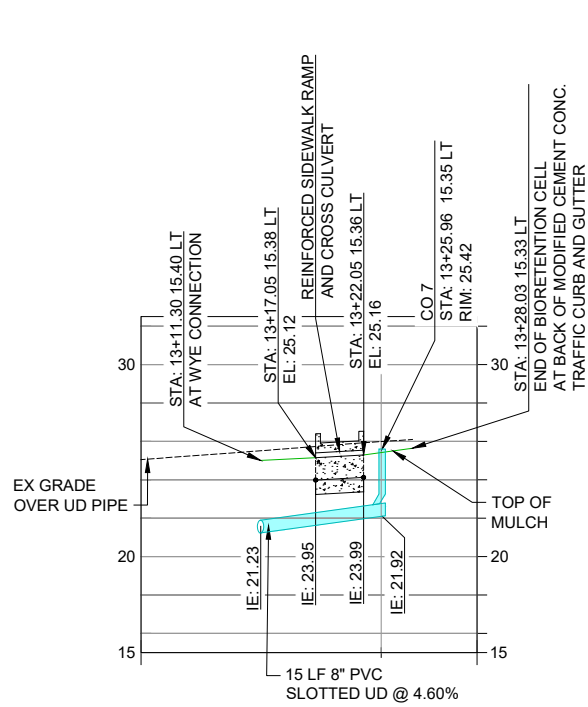
Date: February 2017

FILE NAME: (UPDATED BY) PLOT DATE & TIME
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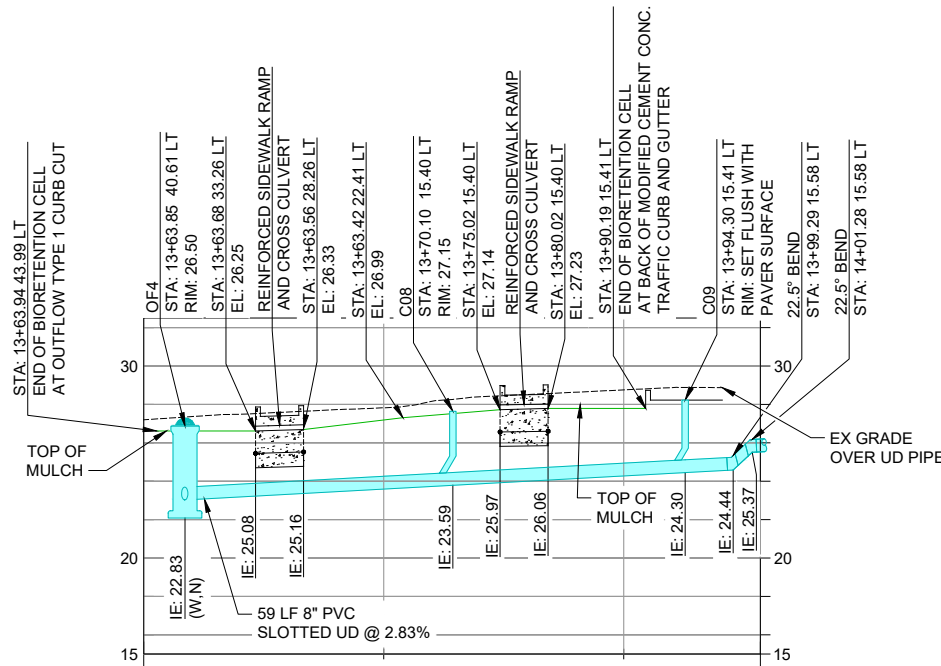
**BIORETENTION CELL A
 PROFILE
 DETAIL**

A
 C-26



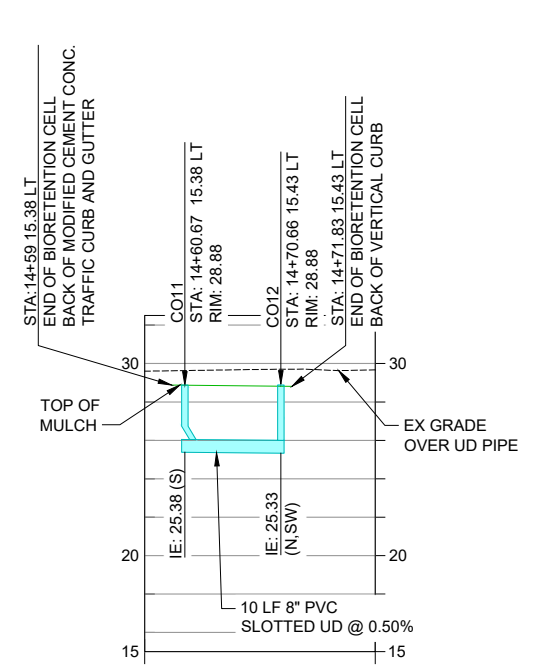
**BIORETENTION CELL B
 PROFILE
 DETAIL**

B
 C-27



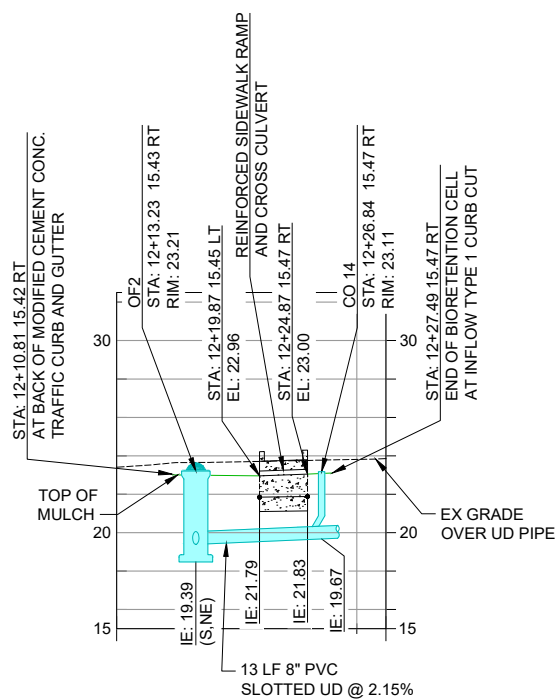
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 PROFILE
 DETAIL**

C
 C-27



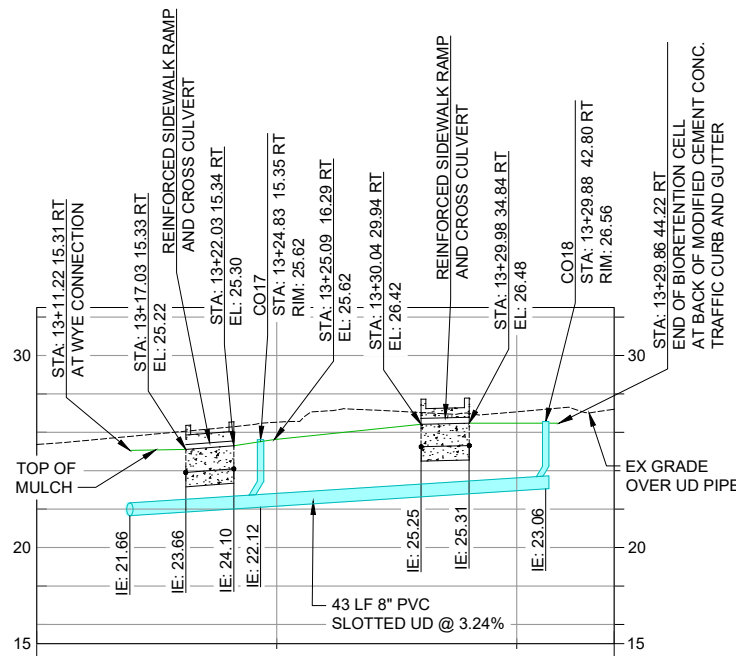
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 PROFILE
 DETAIL**

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 C-27



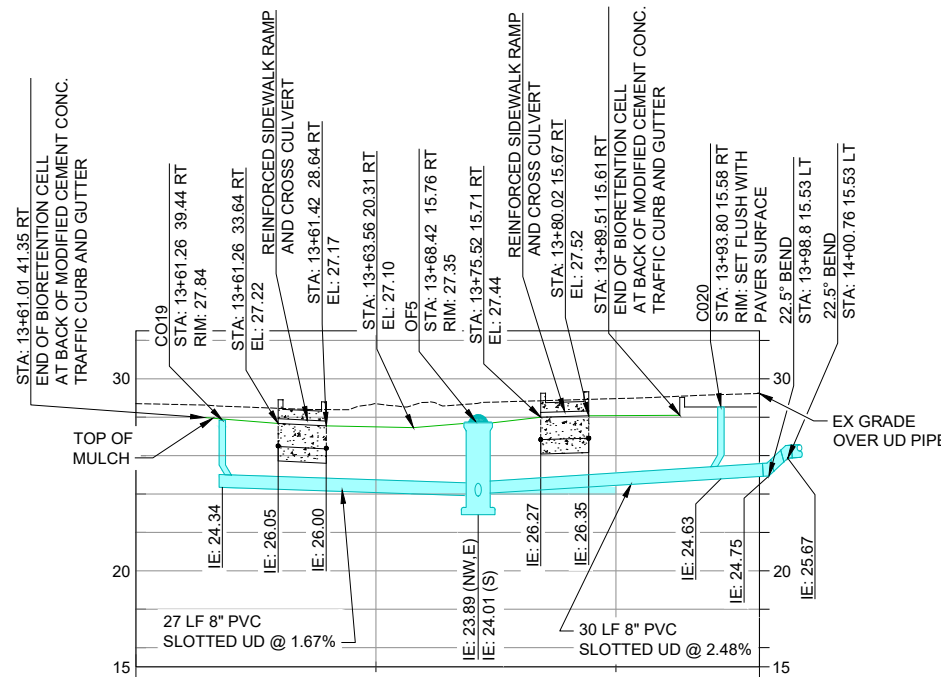
**BIORETENTION CELL E
 PROFILE
 DETAIL**

E
 C-26



**BIORETENTION CELL F
 PROFILE
 DETAIL**

F
 C-27



**BIORETENTION CELL G
 PROFILE
 DETAIL**

G
 C-27

- NOTES:**
- SEE SHEETS C-12 THROUGH C-14 FOR TOP OF MULCH ELEVATIONS.
 - PROFILE ALIGNMENTS DRAWN OVER CENTER OF UNDERDRAIN.
 - STATION AND OFFSETS REFER TO WASHINGTON AVE NE ALIGNMENT.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
 - FOR OVERFLOW STRUCTURE, SEE DETAIL 3/C-07.
 - FOR REINFORCED SIDEWALK RAMP AND CROSS CULVERT, SEE DETAIL 8/C-15.
 - ALL UD PIPE SHALL BE SLOTTED PVC PIPE PER DETAIL 2/C-09.
 - FOR CLEANOUTS IN CELLS, SET RIM ELEVATIONS 1" ABOVE MULCH SURFACE ELEVATION AT CENTER OF CLEANOUT.

RECORD DRAWING

Call 48 Hours
 Before You Dig
 1-800-424-5555
 UNDERGROUND SERVICE



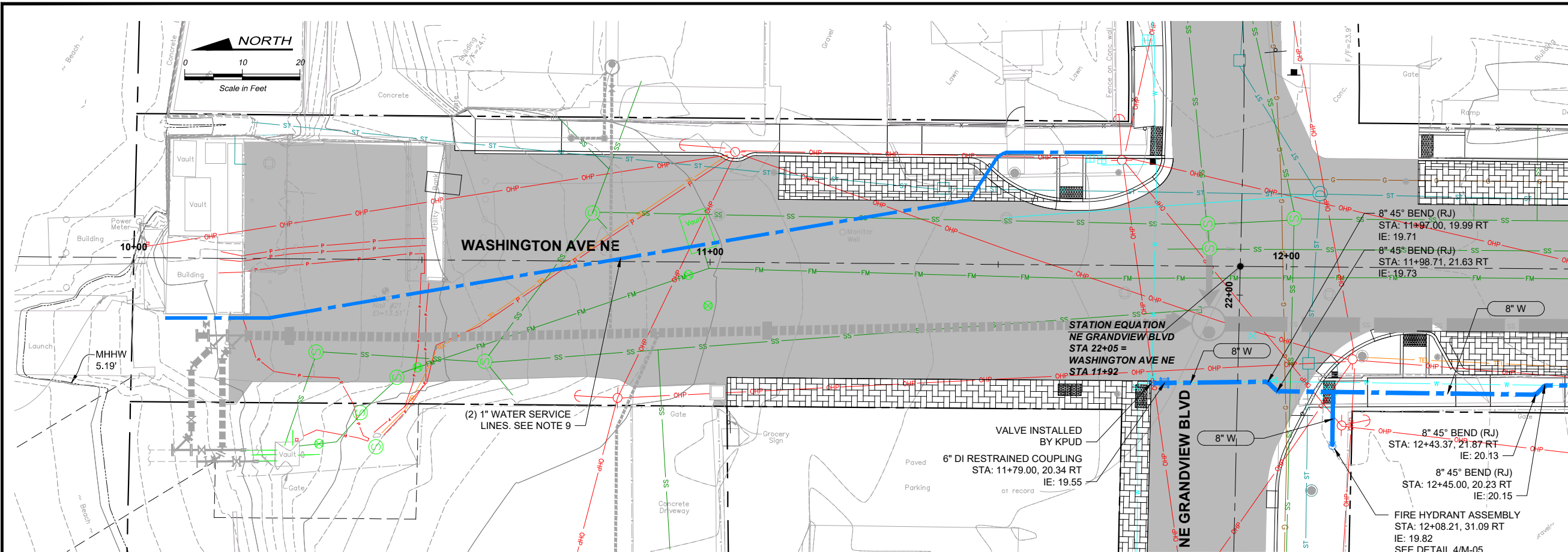
Designed: J. ERICKSON, P.E.
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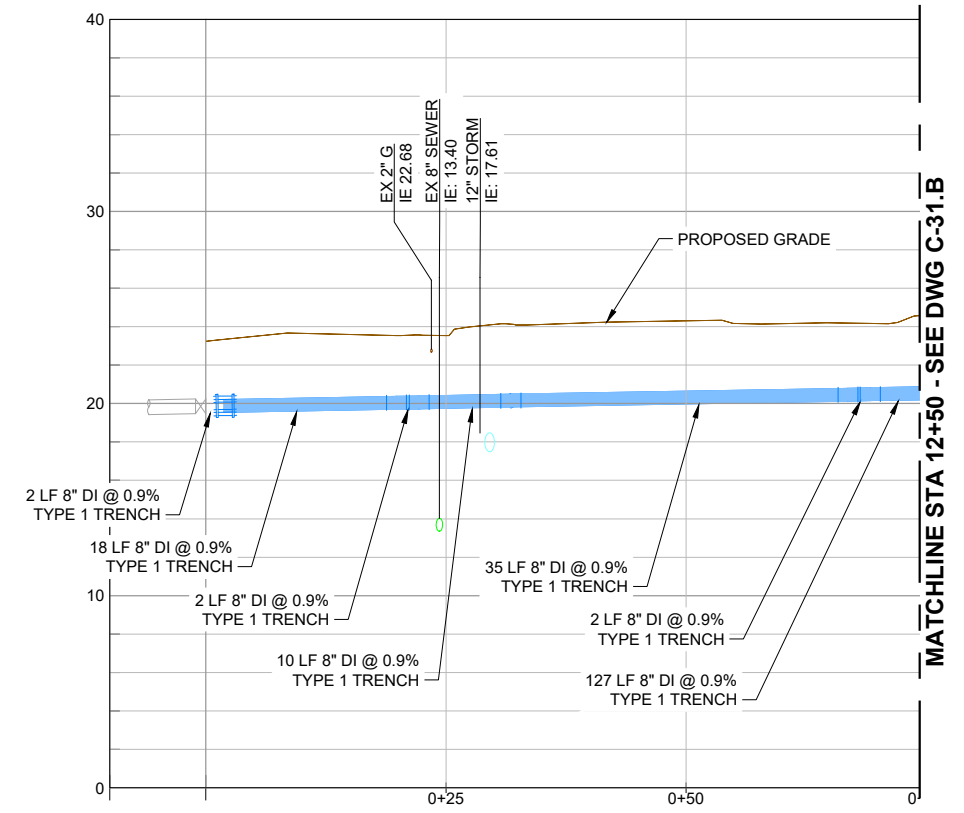
Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

**KITSAP COUNTY PS 16/67 UPGRADES
 STORMWATER PROFILES**

Drawing: **C-31**
 Sheet: **45** Of **101**
 File: 45-P13-10282_C-31
 Date: February 2017



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 - EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
 - CONTRACTOR SHALL POTHOLE ALL CONNECTIONS TO EXISTING WATER MAINS PRIOR TO CONSTRUCTION TO VERIFY DEPTH, FITTING, SIZE/TYPE OF PIPE, AND ALL OTHER INFORMATION NEEDED FOR THE CONNECTION.
 - ALL BURIED DUCTILE IRON PIPE TO BE RESTRAINED JOINT.
 - INSTALL WATER MAIN WITH A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE FROM PROPOSED STORM WATER AND SANITARY SEWER PIPING.
 - INSTALL FIRE HYDRANT FOOT VALVE AT 4 FEET BELOW GRADE.
 - INSTALL (2) 1" WATER SERVICE LINES FROM THE EXISTING WATER METER NEAR THE NORTHEAST CORNER OF WASHINGTON AVE AND GRANDVIEW BLVD. SERVICE LINES ARE ROUTED NORTH TO THE PORT OF KEYPORT.



RECORD DRAWING

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No.	Revision	Date	By	App'd

HDR
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BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhcconsultants.com

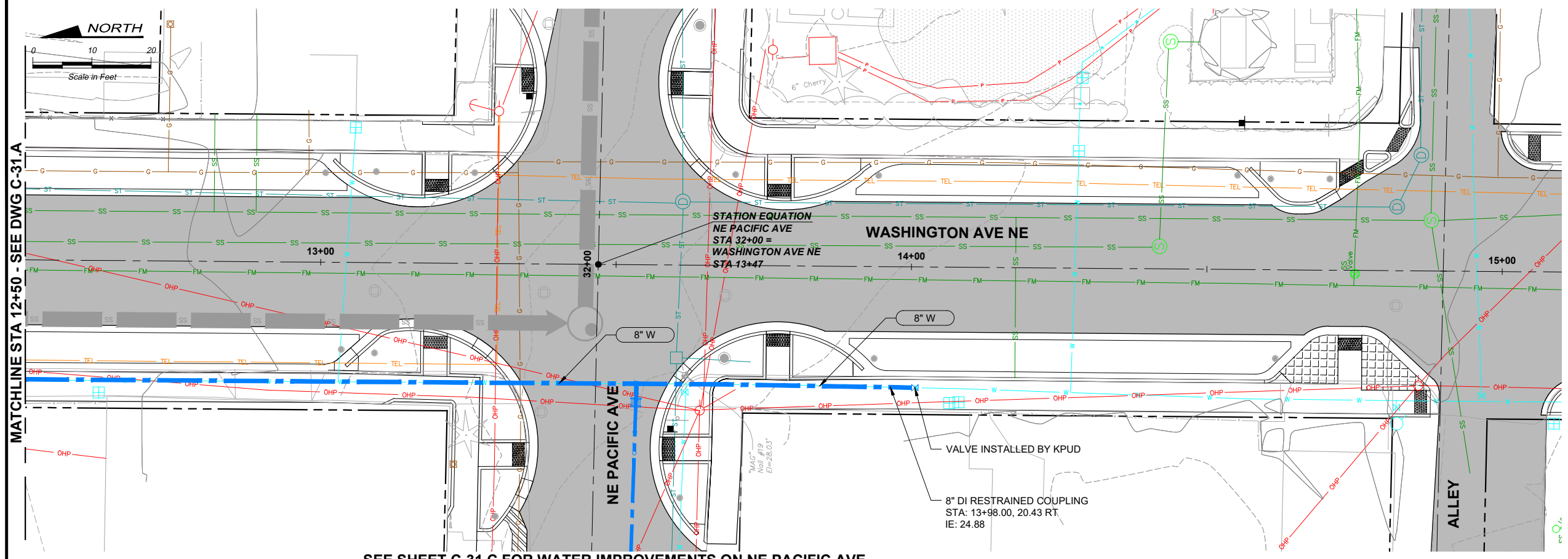
Designed: K. JACOBSON
Drawn: P. WILHELM
Checked: J. KOCH, P.E.
Approved: B. BARTLE, P.E.

Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly

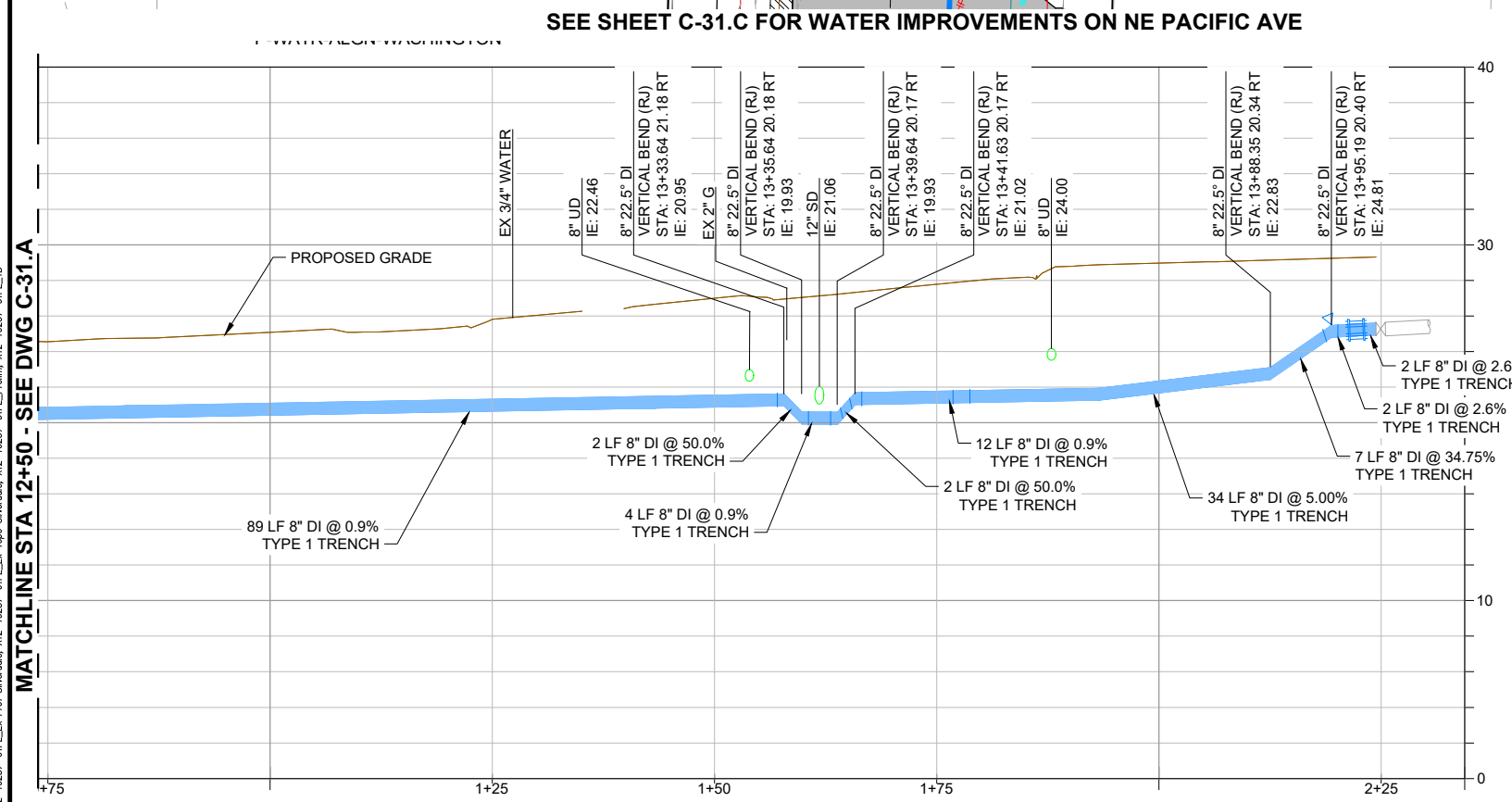
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
WATERMAIN PLAN AND PROFILE
WASHINGTON AVE NE

Drawing: **C-31.A**
Sheet: **46** Of **101**
File: 46-P13-10282_C-31.A
Date: February 2017



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 - EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 - PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
 - CONTRACTOR SHALL POTHOLE ALL CONNECTIONS TO EXISTING WATER MAINS PRIOR TO CONSTRUCTION TO VERIFY DEPTH, FITTING, SIZE/TYPE OF PIPE, AND ALL OTHER INFORMATION NEEDED FOR THE CONNECTION.
 - ALL BURIED DUCTILE IRON PIPE TO BE RESTRAINED JOINT.
 - INSTALL WATER MAIN WITH A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE FROM PROPOSED STORM WATER AND SANITARY SEWER PIPING.



FILE NAME (UPDATED BY) PLOT DATE & TIME
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RECORD DRAWING

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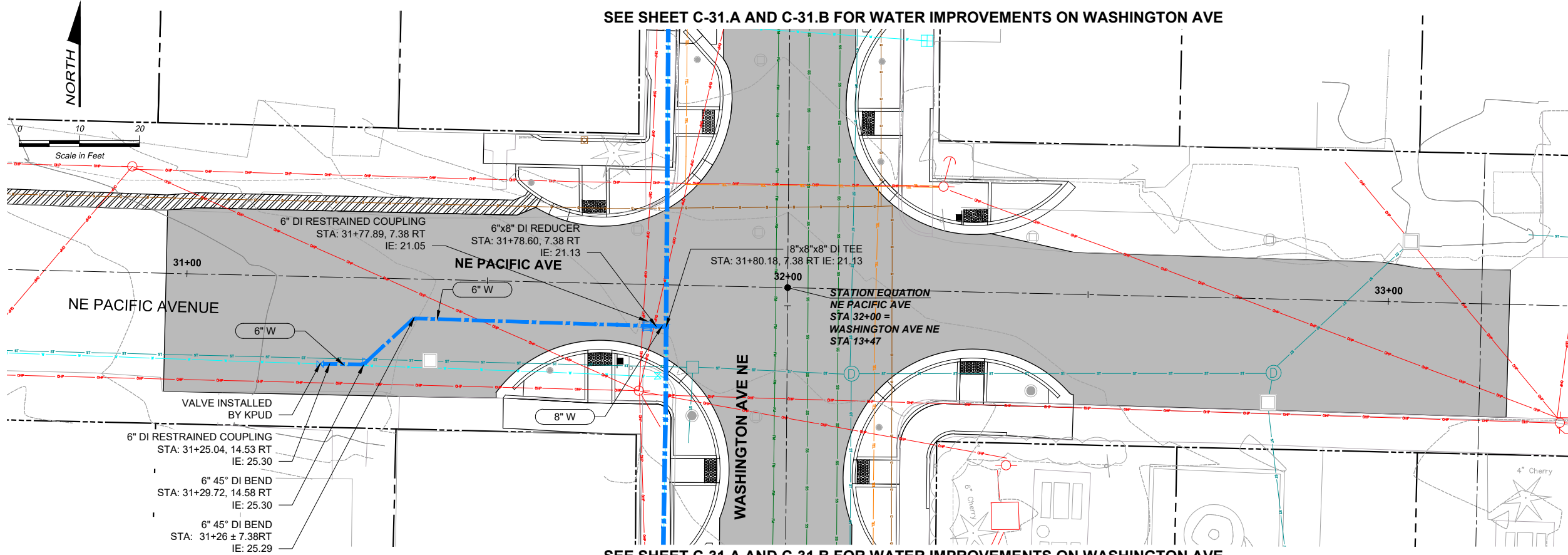


Designed: K. JACOBSON
 Drawn: P. WILHELM
 Checked: J. KOCH, P.E.
 Approved: B. BARTLE, P.E.
 Scale:
 Horiz: 1" = 10'-0"
 Vert: 1" = 5'-0"
 One Inch At Full Scale
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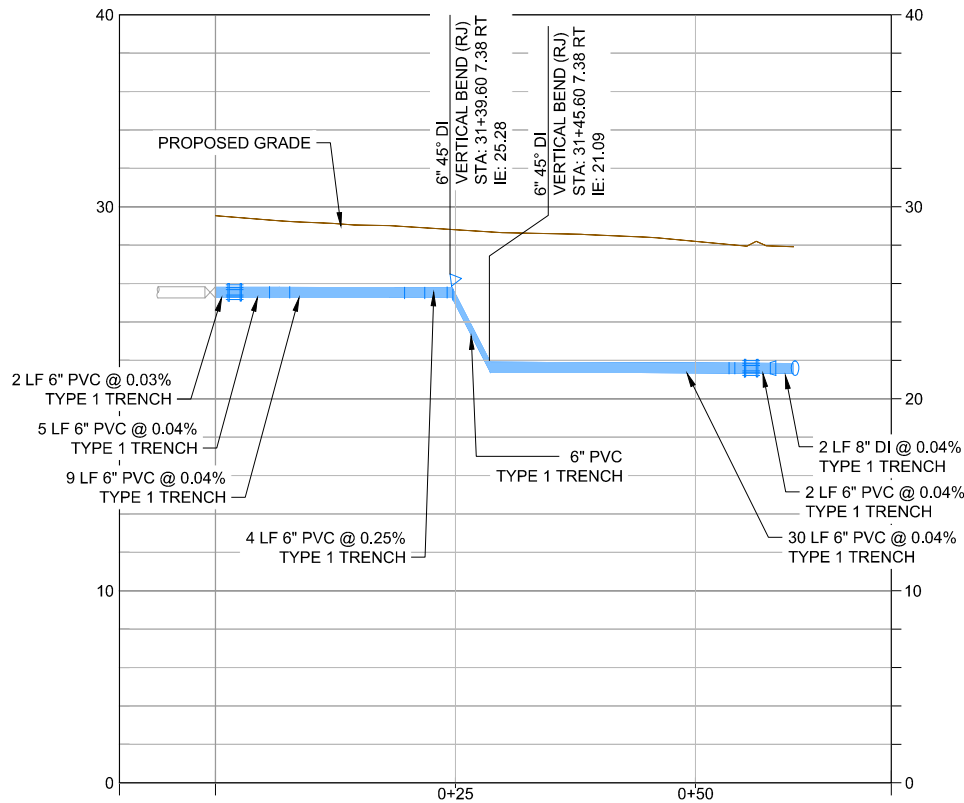
KITSAP COUNTY PS 16/67 UPGRADES
WATERMAIN PLAN AND PROFILE
WASHINGTON AVE NE
 Drawing: **C-31.B**
 Sheet: **47** Of **101**
 File: 47-P13-10282_C-31.B
 Date: February 2017

SEE SHEET C-31.A AND C-31.B FOR WATER IMPROVEMENTS ON WASHINGTON AVE



SEE SHEET C-31.A AND C-31.B FOR WATER IMPROVEMENTS ON WASHINGTON AVE

- NOTES:**
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 2. FIELD VERIFY ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ELEVATIONS SHOWN ON PLANS.
 3. EXISTING UTILITIES TO BE REMOVED OR RELOCATED SHOWN ON SHEETS D-01 THROUGH D-05.
 4. PIPE LENGTHS AND SLOPES ARE ROUNDED AND THEREFORE REPRESENT AN APPROXIMATION. CONTRACTOR SHALL INSTALL PIPELINES AND STRUCTURES SUCH THAT PIPELINES SHALL MATCH INVERTS SHOWN ON THE DRAWINGS AT THE EDGE OF THE STRUCTURE.
 5. CONTRACTOR SHALL POTHOLE ALL CONNECTIONS TO EXISTING WATER MAINS PRIOR TO CONSTRUCTION TO VERIFY DEPTH, FITTING, SIZE/TYPE OF PIPE, AND ALL OTHER INFORMATION NEEDED FOR THE CONNECTION.
 6. ALL BURIED DUCTILE IRON PIPE TO BE RESTRAINED JOINT.
 7. INSTALL WATER MAIN WITH A MINIMUM OF 3 FEET HORIZONTAL CLEARANCE FROM PROPOSED CATCH BASIN.



FILE NAME (UPDATED BY) PLOT DATE & TIME
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 USER: X12-10237-01R-Prop_Sherada, X12-10237-01R_Prot_Sherada, X12-10237-01R_Predr, X12-10237-01R_Lib

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 BHC Consultants, LLC
 1601 Fifth Avenue, Suite 500
 Seattle, Washington 98101
 206.505.3400
 206.505.3406 (fax)
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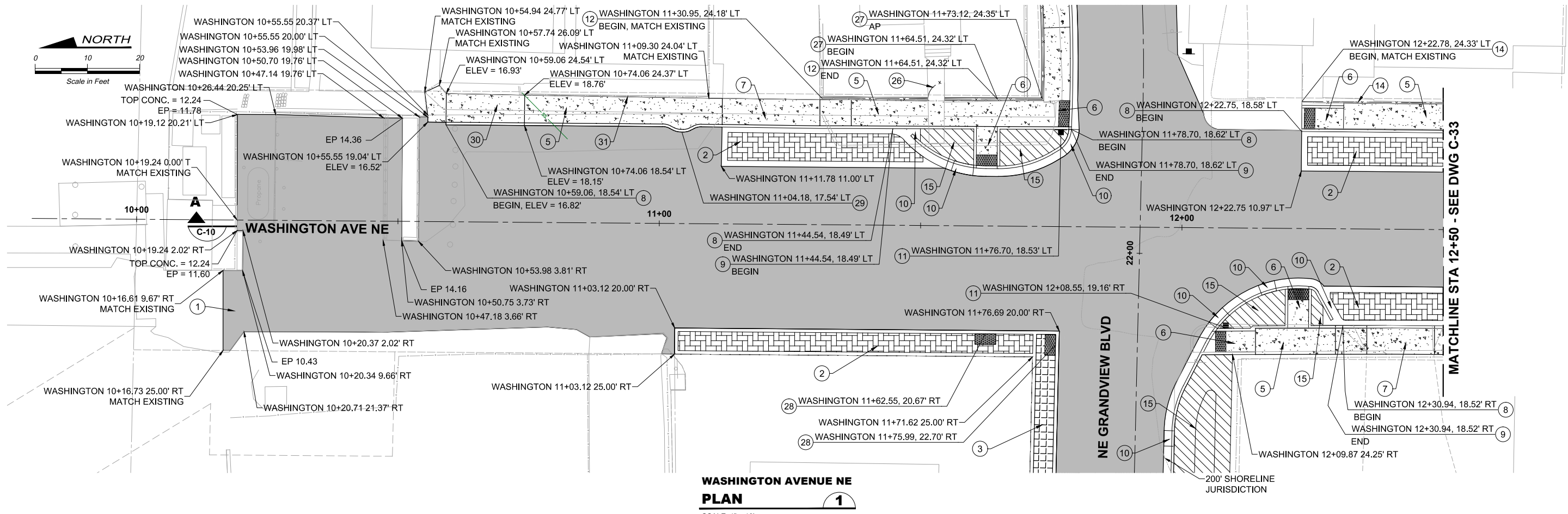
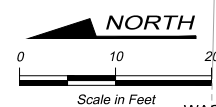
Designed: K. JACOBSON
 Drawn: P. WILHELM
 Checked: J. KOCH, P.E.
 Approved: B. BARTLE, P.E.

Scale:
 Horiz: 1" = 10'
 Vert: 1" = 5'
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

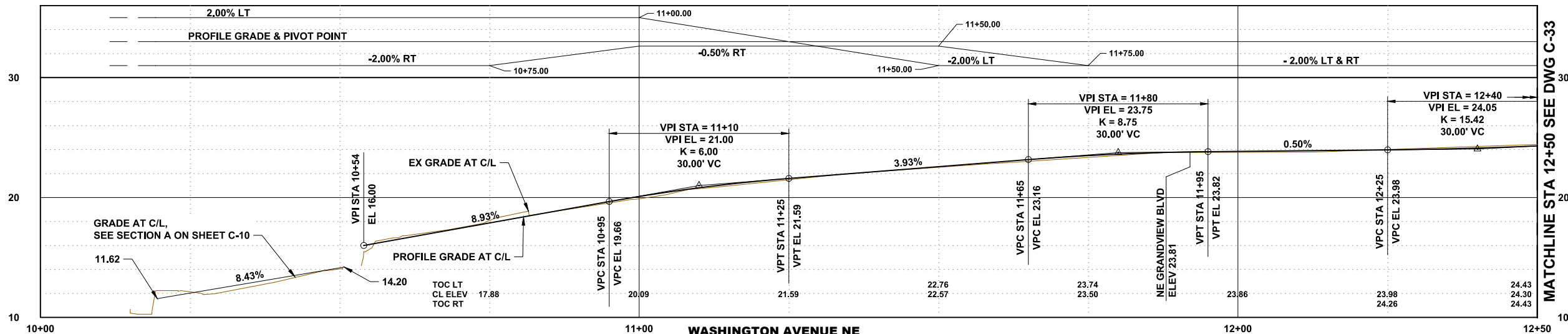
 **Kitsap County Public Works**
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
WATERMAIN PLAN AND PROFILES
NE PACIFIC AVE

Drawing: **C-31.C**
 Sheet: **48** Of **101**
 File: 48-P13-10282_C-31.C
 Date: February 2017



**WASHINGTON AVENUE NE
PLAN**
SCALE: 1" = 10'



**WASHINGTON AVENUE NE
PROFILE**
SCALE: H: 1" = 10' V: 1" = 5'

CONSTRUCTION NOTES

- 1 FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
- 2 PERMEABLE PAVERS WITH FLUSH CURB, SEE DETAIL 3 ON SHEET C-16
- 3 IMPERMEABLE PAVERS WITH FLUSH CURB, SEE DETAIL 1 SHEET C-16
- 4 IMPERMEABLE PAVERS WITH CURB, SEE DETAIL 2 SHEET C-16
- 5 CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
- 6 CURB RAMP, REFER TO DETAILS ON SHEETS C-12 TO C-14
- 7 DRIVEWAY APPROACH PER KITSAP CO. STD. DETAIL 4-2
- 8 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-02
- 9 MODIFIED CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 1 ON SHEET C-15
- 10 CURB CUT, SEE SHEET C-11 FOR DETAILS AND SCHEDULE
- 11 RELOCATED SIGN(S), REFER TO SHEETS D-01 TO D-06 FOR EXISTING SIGNS AND LOCATION

- 12 RAISED CURB WITH CHAIN LINK FENCE, SEE DETAIL 3 ON SHEET C-15
- 14 CHAIN LINK FENCE, SEE DETAIL 6 ON SHEET C-15
- 15 BIORETENTION AREA, REFER TO SHEETS C-26 TO C-30
- 26 CHAIN LINK SWING GATE, SEE DETAIL 4 ON SHEET C-15
- 27 CEMENT CONC. THICKENED EDGE SIDEWALK WITH CHAIN LINK FENCE. SEE DETAIL 2 ON SHEET C-15
- 28 DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-01. INSTALL ON 6 IN. CONCRETE OVER 8 IN. CSBC SIMILAR TO ADJACENT FLUSH CURB.
- 29 BEND CURB AROUND EXISTING POWER POLE USING 3 FOOT RADIUS CURVES.
- 30 RAMP DOWN SIDEWALK, INCLUDING DIMINISHING CURB AND GUTTER.
- 31 CONTRACTOR TO PLACE 3/8 IN. PREMOLDED JOINT FILLER BETWEEN WALL AND SIDEWALK PER WSDOT STD. PLAN F-30.10-03.

RECORD DRAWING

FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10282-001\12-10282-001_P167_UPGRADES\ROADWAY\PLANS\DCS\49-P13-10282_C-32.dwg
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No.	Revision	Date	By	App'd



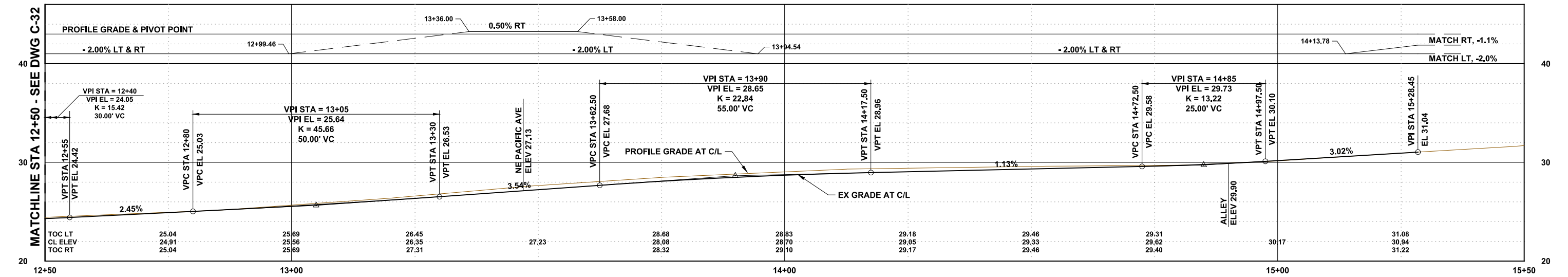
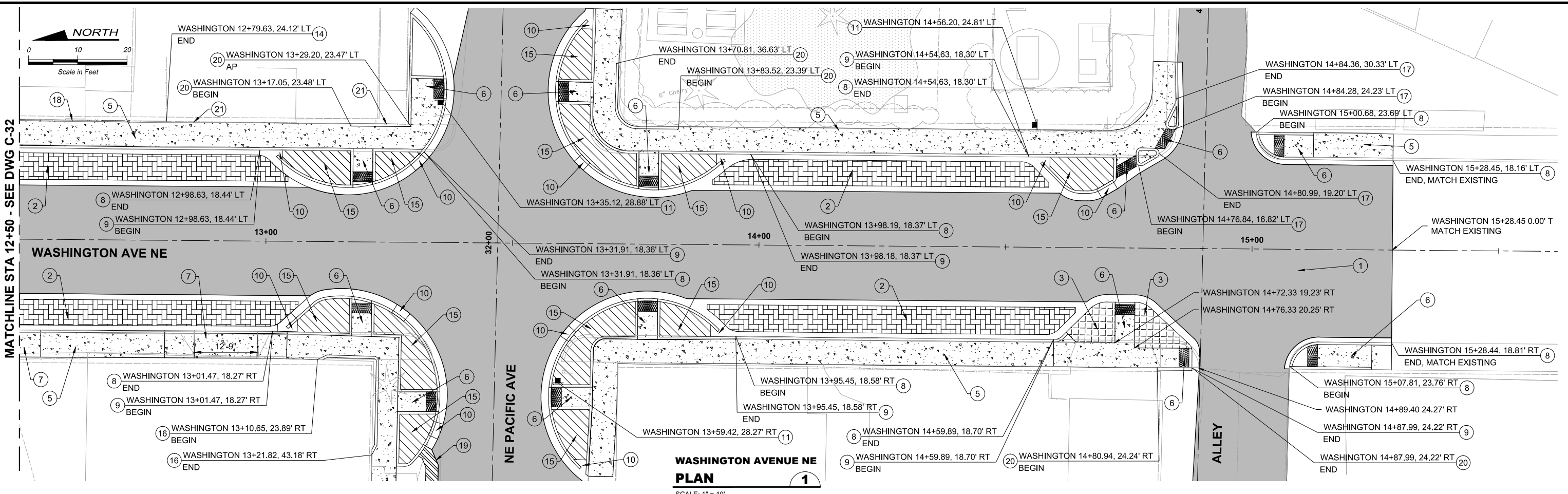
Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY PLANS
WASHINGTON AVENUE NE

Drawing: **C-32**
 Sheet: **49** Of **101**
 File: 49-P13-10282_C-32
 Date: February 2017



- CONSTRUCTION NOTES**
- FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
 - PERMEABLE PAVERS, SEE DETAIL 3 ON SHEET C-16
 - IMPERMEABLE PAVERS WITH FLUSH CURB, SEE DETAIL 1 SHEET C-16
 - CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
 - CURB RAMP, REFER TO DETAILS ON SHEETS C-12 TO C-14
 - DRIVEWAY APPROACH PER KITSAP CO. STD. DETAIL 4-2
 - CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-02
 - MODIFIED CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 1 ON SHEET C-15
 - CURB CUT, SEE SHEET C-11 FOR DETAILS AND SCHEDULE
 - RELOCATED SIGN(S), REFER TO SHEETS D-01 TO D-06 FOR EXISTING SIGNS AND LOCATION
 - CHAIN LINK FENCE, SEE DETAIL 6 ON SHEET C-15
 - BIORETENTION AREA, REFER TO SHEETS C-26 TO C-30
 - CEMENT CONC. THICKENED EDGE SIDEWALK, SEE DETAIL 2 ON SHEET C-15
 - CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD. PLAN F-10.12-02
 - ROLLING GATE FOR CHAIN LINK FENCE, SEE DETAIL 5 ON SHEET C-15
 - ASPHALT THICKENED EDGE, SEE DETAIL 7 ON SHEET C-15
 - CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-02
 - PROTECT EXISTING WOOD FENCE IN PLACE.

FILE NAME (UPDATED BY) [redacted]
 PLOT DATE & TIME [redacted]
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 USER: [redacted]



Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.



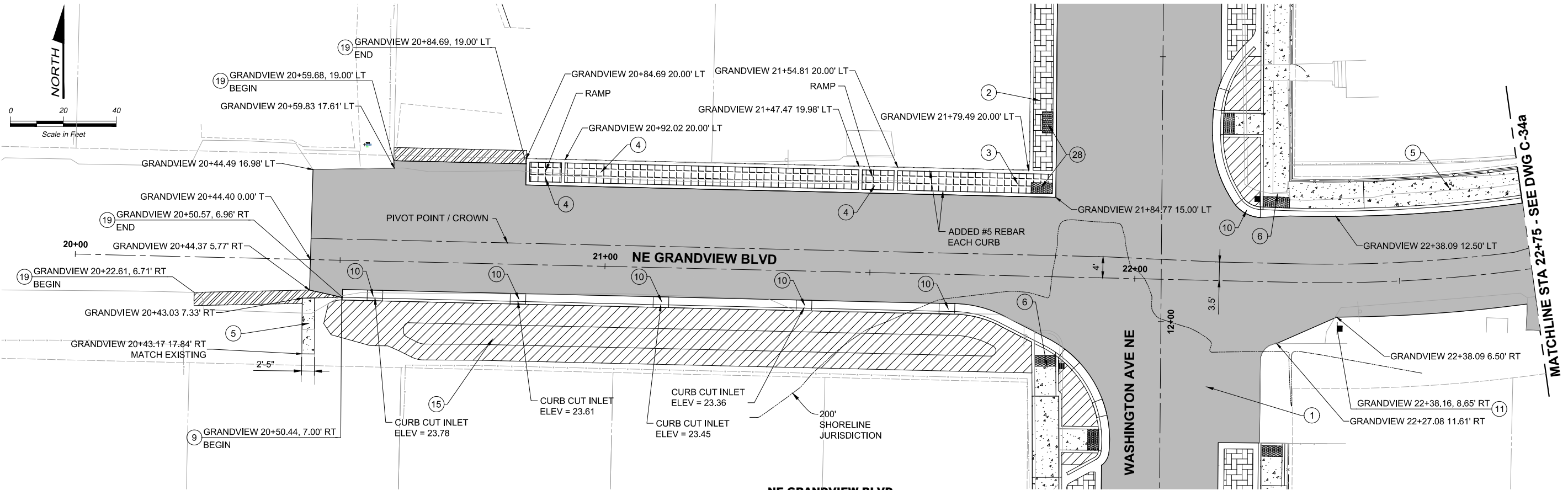
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KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY PLANS
WASHINGTON AVENUE NE

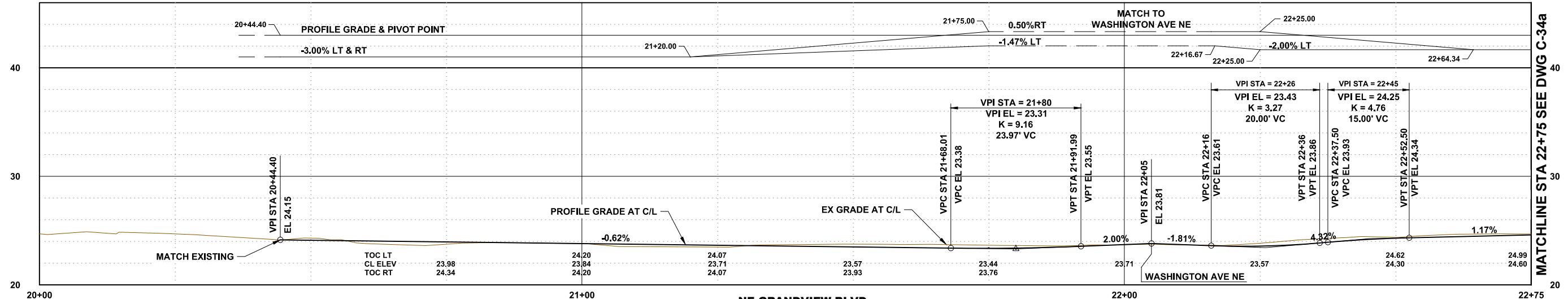
Drawing: **C-33**
 Sheet: **50** Of **101**
 File: 50-P13-10282_C-33
 Date: February 2017



Call 48 Hours Before You Dig
 1-800-424-5555
 UNDERGROUND SERVICE



**NE GRANDVIEW BLVD
PLAN**
SCALE: 1" = 10'-0"



**NE GRANDVIEW BLVD
PROFILE**
SCALE: H: 1" = 10' V: 1" = 5'

CONSTRUCTION NOTES

- 1 FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
- 2 PERMEABLE PAVERS, SEE DETAIL 3 ON SHEET C-16
- 3 IMPERMEABLE PAVERS WITH FLUSH CURB, SEE DETAIL 1 SHEET C-16
- 4 IMPERMEABLE PAVERS WITH CURB, SEE DETAIL 2 SHEET C-16
- 5 CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
- 6 CURB RAMP, REFER TO DETAILS ON SHEETS C-12 TO C-14
- 8 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-02
- 9 MODIFIED CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 1 ON SHEET C-15
- 10 CURB CUT, SEE SHEET C-11 FOR DETAILS AND SCHEDULE
- 11 RELOCATED SIGN(S), REFER TO SHEETS D-01 TO D-06 FOR EXISTING SIGNS AND LOCATION
- 12 RAISED CURB WITH CHAIN LINK FENCE, SEE DETAIL 3 ON SHEET C-15
- 15 BIORETENTION AREA, REFER TO SHEETS C-26 TO C-30
- 19 ASPHALT THICKENED EDGE, SEE DETAIL 7 ON SHEET C-15
- 27 CEMENT CONC. THICKENED EDGE SIDEWALK WITH CHAIN LINK FENCE. SEE DETAIL 2 ON SHEET C-15
- 28 DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-01. INSTALL ON 6 IN. CONCRETE OVER 8 IN. CSBC SIMILAR TO ADJACENT FLUSH CURB.

FILE NAME: (UPDATED BY) PLOT DATE & TIME: NOV 06 2017 13:46:48
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 XREFS: Kitsap_IB, topo, X13-10282-01PS_Prelim, X13-10282_Road

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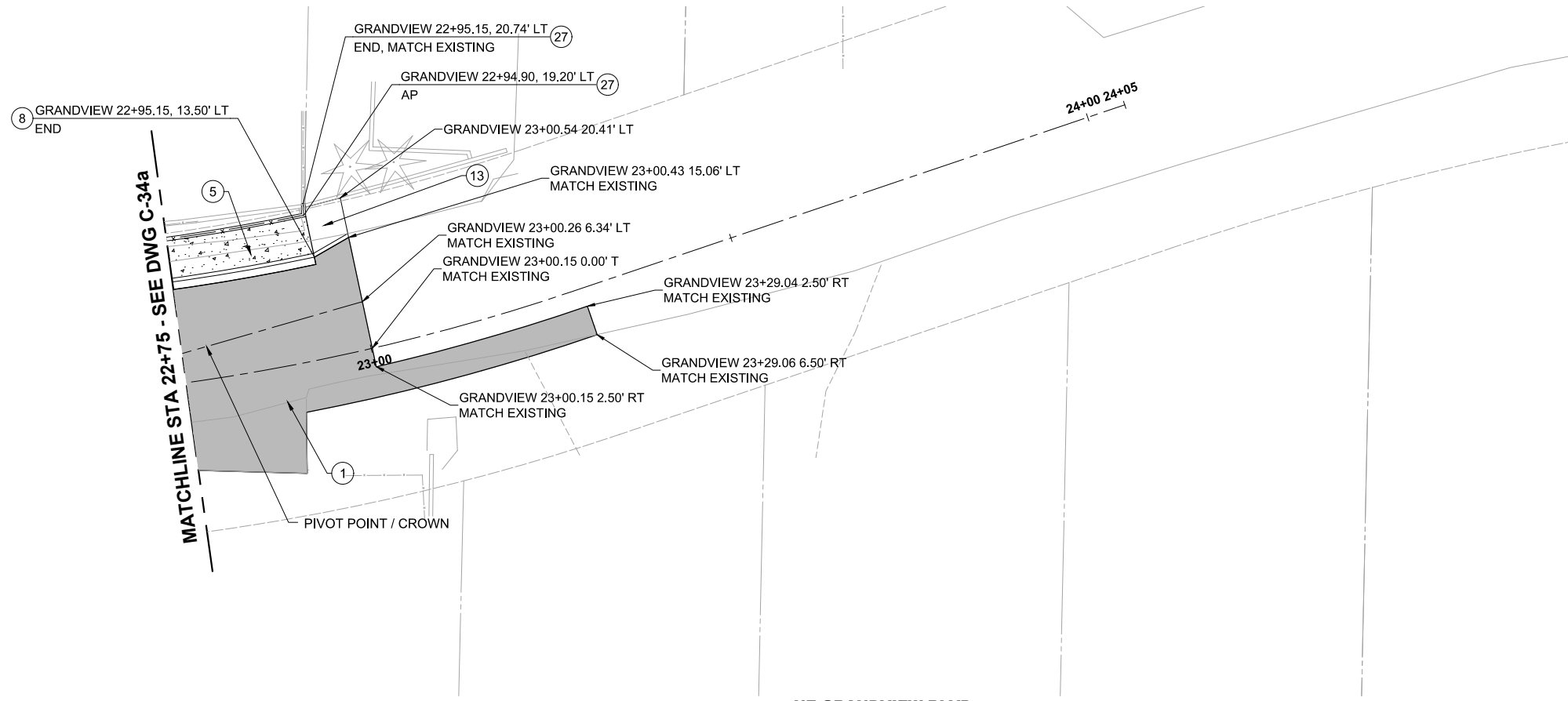
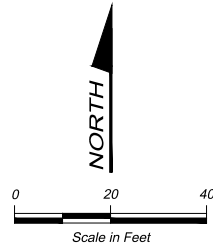
Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM
 Approved: B. MAGEE, P.E.
 Scale: As Shown
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



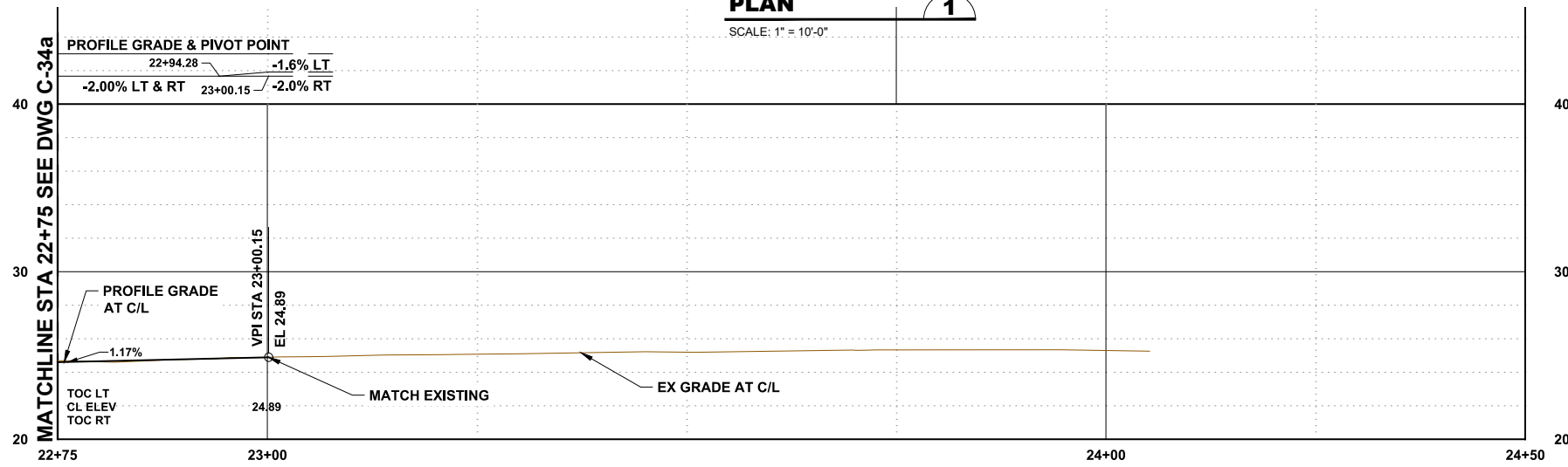
KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY PLANS
NE GRANDVIEW BLVD

Call 48 Hours Before You Dig
 1-800-424-5555
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Drawing: **C-34**
 Sheet: **51** Of **101**
 File: 51-P13-10282_C-34
 Date: February 2017



**NE GRANDVIEW BLVD
PLAN**
SCALE: 1" = 10'-0"



**NE GRANDVIEW BLVD
PROFILE**
SCALE: H: 1" = 10' V: 1" = 5"

CONSTRUCTION NOTES

- ① FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
- ② CEMENT CONC. THICKENED EDGE SIDEWALK WITH CHAIN LINK FENCE. SEE DETAIL 2 ON SHEET C-15
- ⑤ CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
- ⑧ CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-02
- ⑬ ASPHALT TRANSITION RAMP, MAX SLOPE OF 8.33%

FILE NAME: (UPDATED BY) S:\CAD\KITSAP COUNTY\13-10282 PS 16-67 DESIGN\DWG\PS13-10282_C-34A.DWG (PLS) XREFS: Kitsap_LB, topo, X13-10282-01PS_Prelim, X13-10282_Road
 PLOT DATE & TIME: NOV 06 2013 13:46:48

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Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM
 Approved: B. MAGEE, P.E.
 Scale: As Shown
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

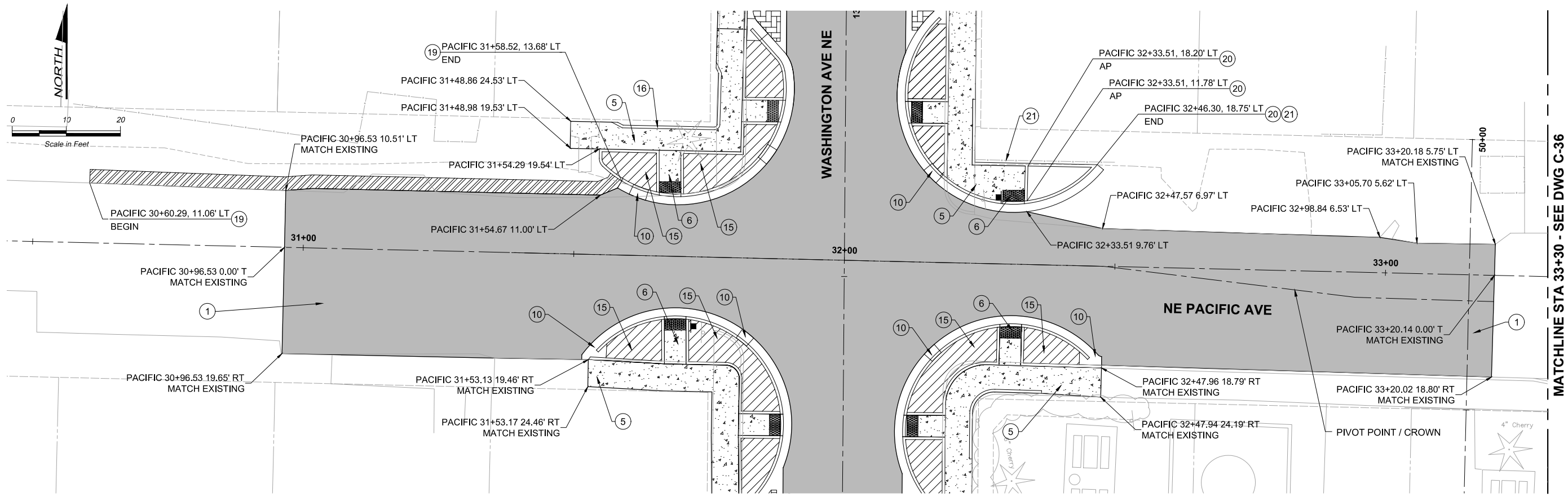


KITSAP COUNTY PS 16/67 UPGRADES

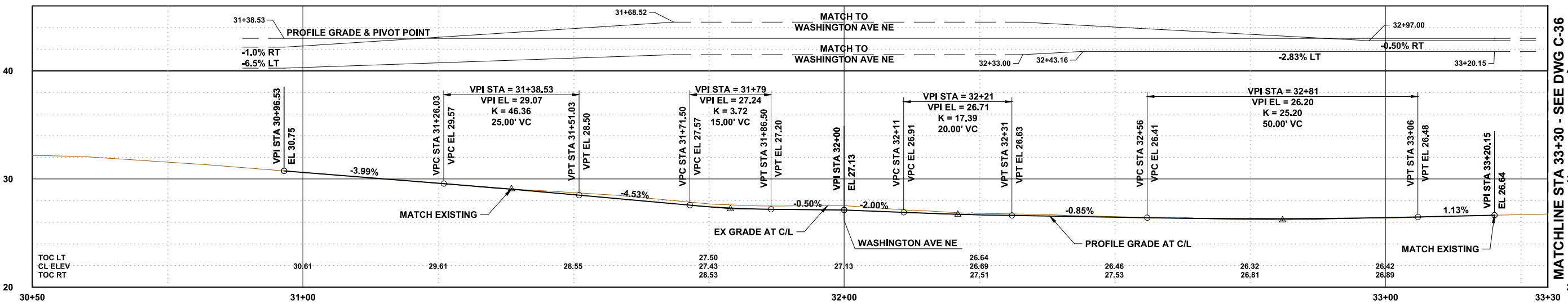
**ROADWAY PLANS
NE GRANDVIEW BLVD**

Call 48 Hours Before You Dig
 1-800-424-5555
 UNDERGROUND SERVICE
 Drawing: **C-34a**
 Sheet: **52** Of **101**
 File: 52-P13-10282_C-34A
 Date: February 2017





NE PACIFIC AVE PLAN
SCALE: 1" = 10'-0"



NE PACIFIC AVE PROFILE
SCALE: H: 1" = 10' V: 1" = 5'

CONSTRUCTION NOTES

- 1 FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
- 5 CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
- 6 CURB RAMP, REFER TO DETAILS ON SHEETS C-12 TO C-14
- 10 CURB CUT, SEE SHEET C-11 FOR DETAILS AND SCHEDULE
- 15 BIORETENTION AREA, REFER TO SHEETS C-26 TO C-30
- 16 CEMENT CONC. THICKENED EDGE SIDEWALK, SEE DETAIL 2 ON SHEET C-15
- 19 ASPHALT THICKENED EDGE, SEE DETAIL 7 ON SHEET C-15
- 20 CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-02
- 21 PROTECT EXISTING WOOD FENCE IN PLACE

RECORD DRAWING

Call 48 Hours Before You Dig
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FILE NAME: (UPDATED BY) PLOT DATE & TIME: NOV 06 2017 13:46:48
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 XREFS: Kitsap_1b.dwg, X13-10282-01PS_Prelim, X13-10282_Road

No.	Revision	Date	By	App'd

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HDR Engineering, Inc.

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BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhcconsultants.com

Designed: B. MAGEE, P.E.
Drawn: B. MAGEE, P.E.
Checked: R. KIRSCHBAUM, P.E.
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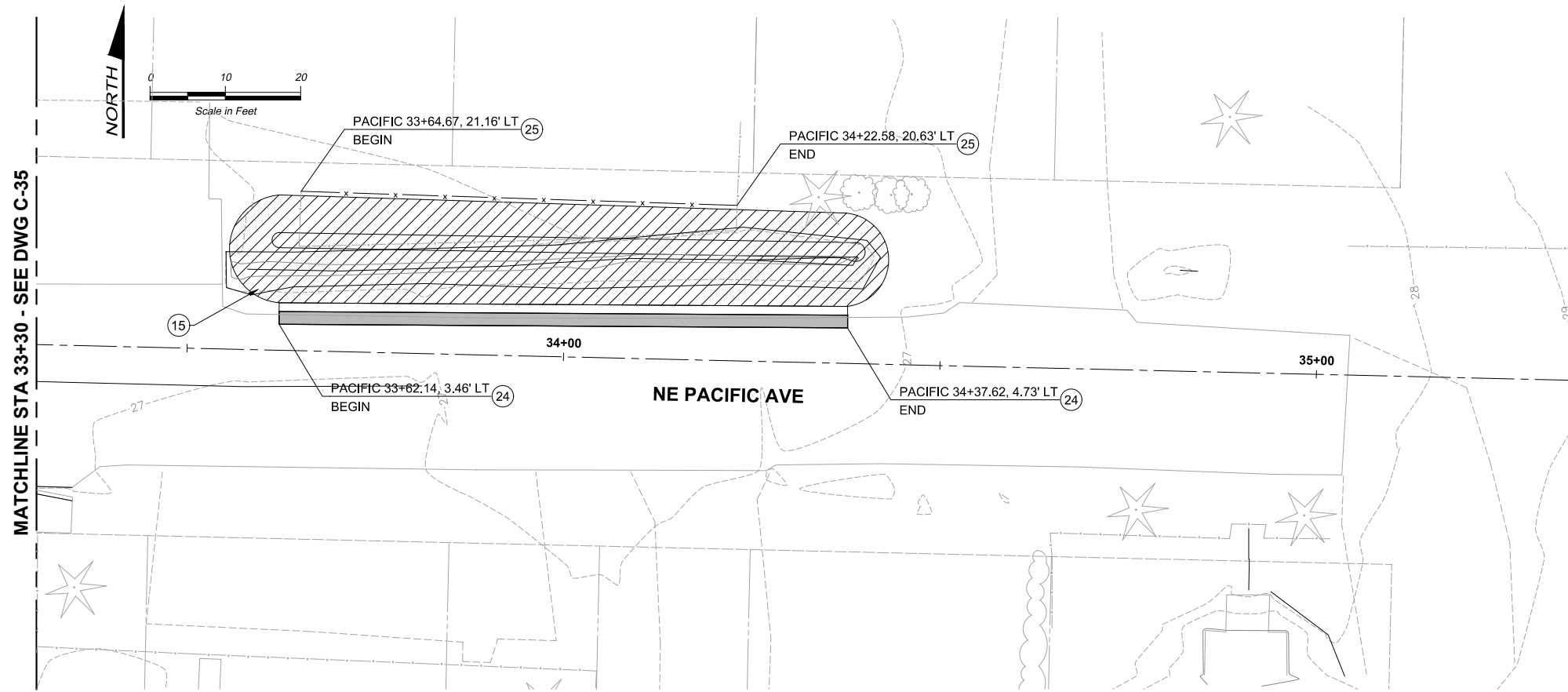
Scale: As Shown
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KITSAP COUNTY
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

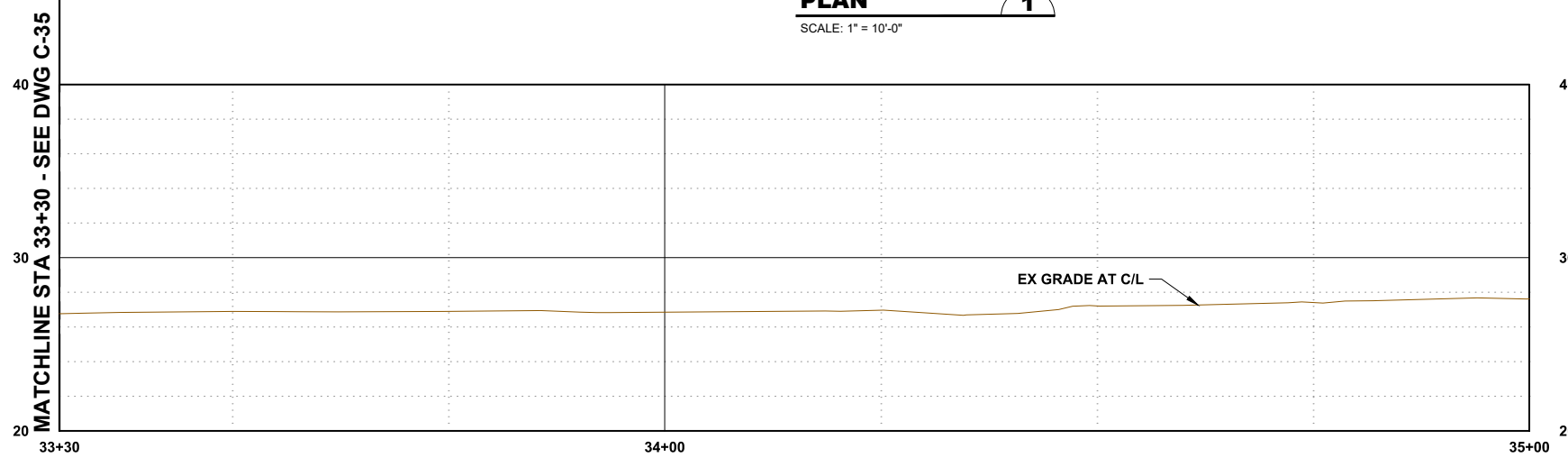
KITSAP COUNTY PS 16/67 UPGRADES
ROADWAY PLANS
NE PACIFIC AVE

Drawing: **C-35**
Sheet: **53** Of **101**
File: 53-P13-10282_C-35
Date: February 2017

FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\13-10282 PS 16-67 DESIGN\DWG\PS 16-67-10282_C-201.DWG (RLS) XREFS: Kitsap_IB, topo, X13-10282-01PS_Prelim, X13-10282-Road
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**NE PACIFIC AVE
PLAN** 1
SCALE: 1" = 10'-0"



**NE PACIFIC AVE
PROFILE** 2
SCALE: H: 1" = 10' V: 1" = 5'

CONSTRUCTION NOTES

- 15 BIORETENTION AREA, REFER TO SHEETS C-26 TO C-30
- 24 FULL DEPTH ASPHALT WITH ADJACENT FLUSH CURB PER DETAIL 3 ON SHEET C-10
- 25 RESET EXISTING FENCE

RECORD DRAWING

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UNDERGROUND SERVICE

No.	Revision	Date	By	App'd



Designed: B. MAGEE, P.E.
Drawn: B. MAGEE, P.E.
Checked: R. KIRSCHBAUM, P.E.
Approved: B. MAGEE, P.E.

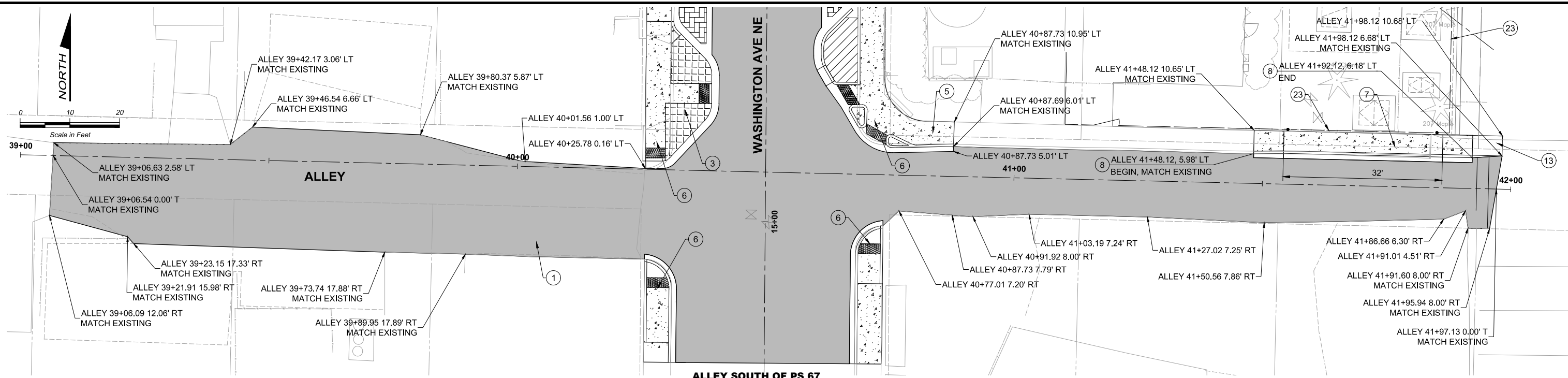
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As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly



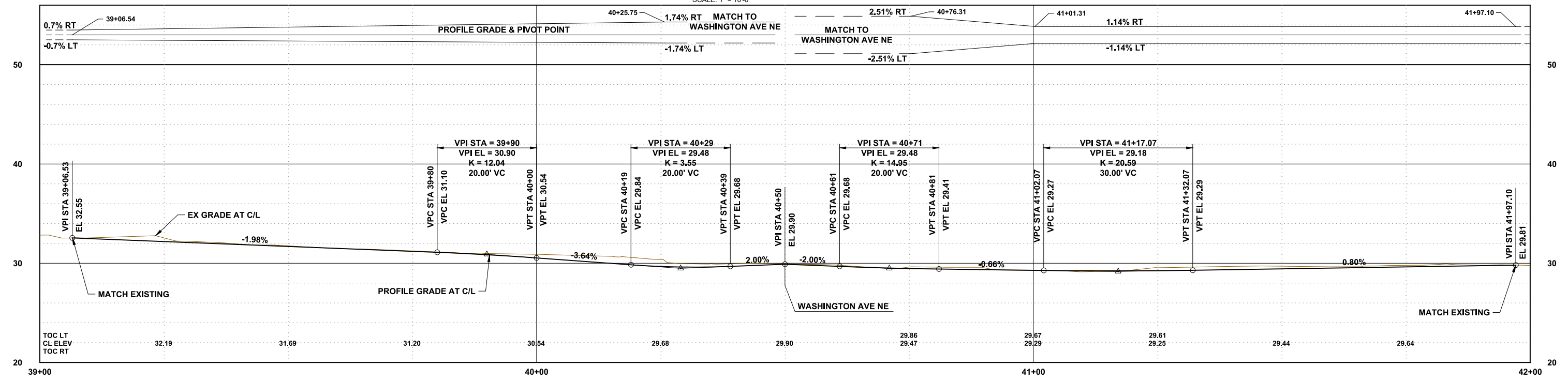
KITSAP COUNTY PS 16/67 UPGRADES

**ROADWAY PLANS
NE PACIFIC AVE**

Drawing: **C-36**
Sheet: **54** Of **101**
File: 54-P13-10282_C-36
Date: February 2017



ALLEY SOUTH OF PS 67
PLAN
SCALE: 1" = 10'-0"



ALLEY SOUTH OF PS 67
PROFILE
SCALE: H: 1" = 10' V: 1" = 5'

CONSTRUCTION NOTES

- 1 FULL DEPTH PAVEMENT PER TYPICAL SECTIONS, SHEETS C-10 AND C-11
- 2 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-02
- 3 IMPERMEABLE PAVERS WITH FLUSH CURB, SEE DETAIL 1 SHEET C-16
- 4 ASPHALT TRANSITION RAMP, MAX SLOPE OF 8.33%
- 5 CEMENT CONCRETE SIDEWALK PER SHEETS C-10 AND C-10a AND WSDOT STD. PLAN F-30.10-02
- 6 REFER TO SHEET L-3 FOR PUMP STATION FENCE DETAILS
- 7 DRIVEWAY APPROACH PER KITSAP CO. STD. DETAIL 4-2
- 8
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FILE NAME: (UPDATED BY) [REDACTED]
 DATE: 06/20/17 1:24:42 PM
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 XREFS: Kitsap_TB.dwg, X13-10282-01PS_Prelim.dwg, X13-10282_Road



Designed: B. MAGEE, P.E.
 Drawn: B. MAGEE, P.E.
 Checked: R. KIRSCHBAUM, P.E.
 Approved: B. MAGEE, P.E.



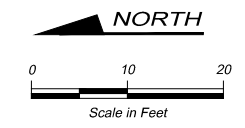
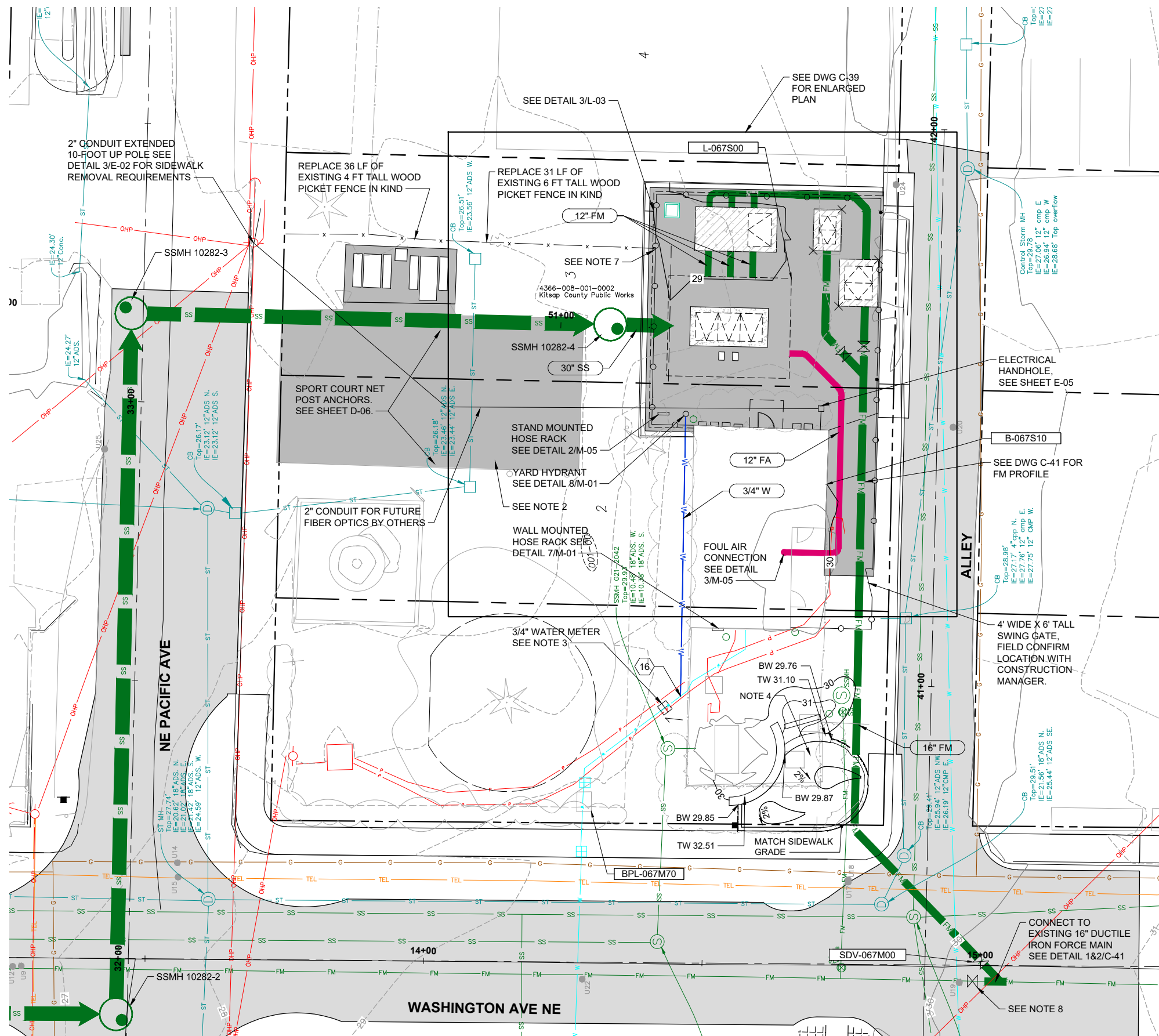
KITSAP COUNTY PS 16/67 UPGRADES

ROADWAY PLANS ALLEY

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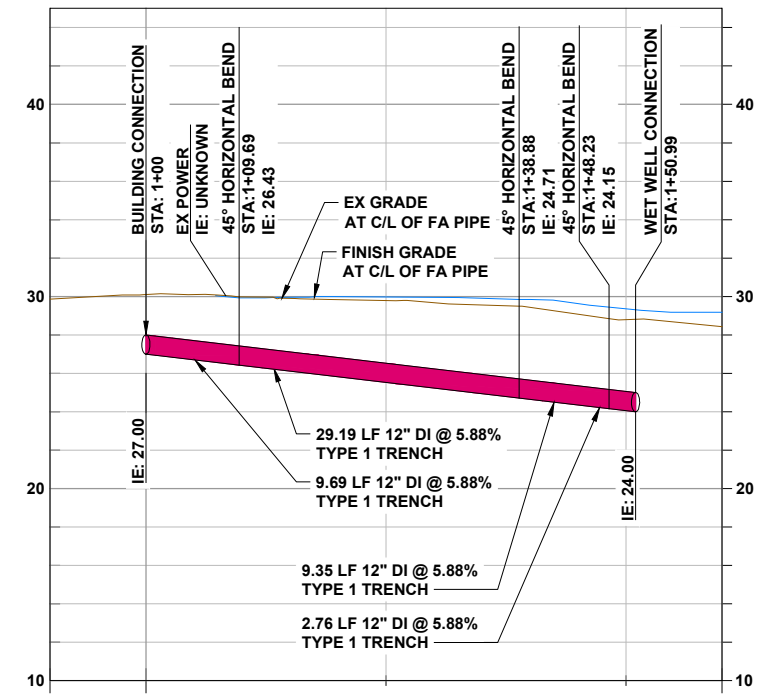
Drawing: **C-37**
 Sheet: **55** Of **101**
 File: 55-P13-10282_C-37
 Date: February 2017

FILE NAME: (UPDATED BY) PLOT DATE & TIME: MAR 04 2017 15:35:42
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- NOTES:**
- SEE DWG C-39 FOR SURVEY CONTROL POINT TABLE.
 - REMOVE AND REPLACE ASPHALT PAVING. NEW ASPHALT PAVEMENT PER DETAIL 2/C-10.
 - INSTALL 3/4" WATER METER SIMILAR TO DETAIL 3/C-05. MODIFY ACCORDINGLY TO CONNECT TO EXISTING 3/4" WATER SERVICE.
 - BLIND FLANGE PIPING WITHIN EXISTING PS 67 VALVE VAULT.
 - NEW WOOD PICKET FENCE TO FOLLOW EXISTING ALIGNMENT.
 - SEE SHEET L-03 FOR FENCE DETAILS.
 - INSTALL WOODEN FENCE POST ADJACENT TO METAL FENCE. THE GAP BETWEEN THE WOODEN FENCE POST AND THE METAL FENCE SHALL BE LESS THAN 3 INCHES.
 - CONSTRUCTION GATE VALVE. ABANDON IN PLACE.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.



No.	Revision	Date	By	App'd

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 Drawn: P. WILHELM
 Checked: K. JACOBSON
 Approved: B. BARTLE, P.E.

Scale: 1" = 10'
 One Inch at Full Scale
 If Not One Inch Scale Accordingly

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 Port Orchard, WA 98366

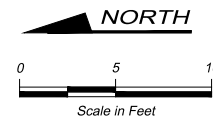
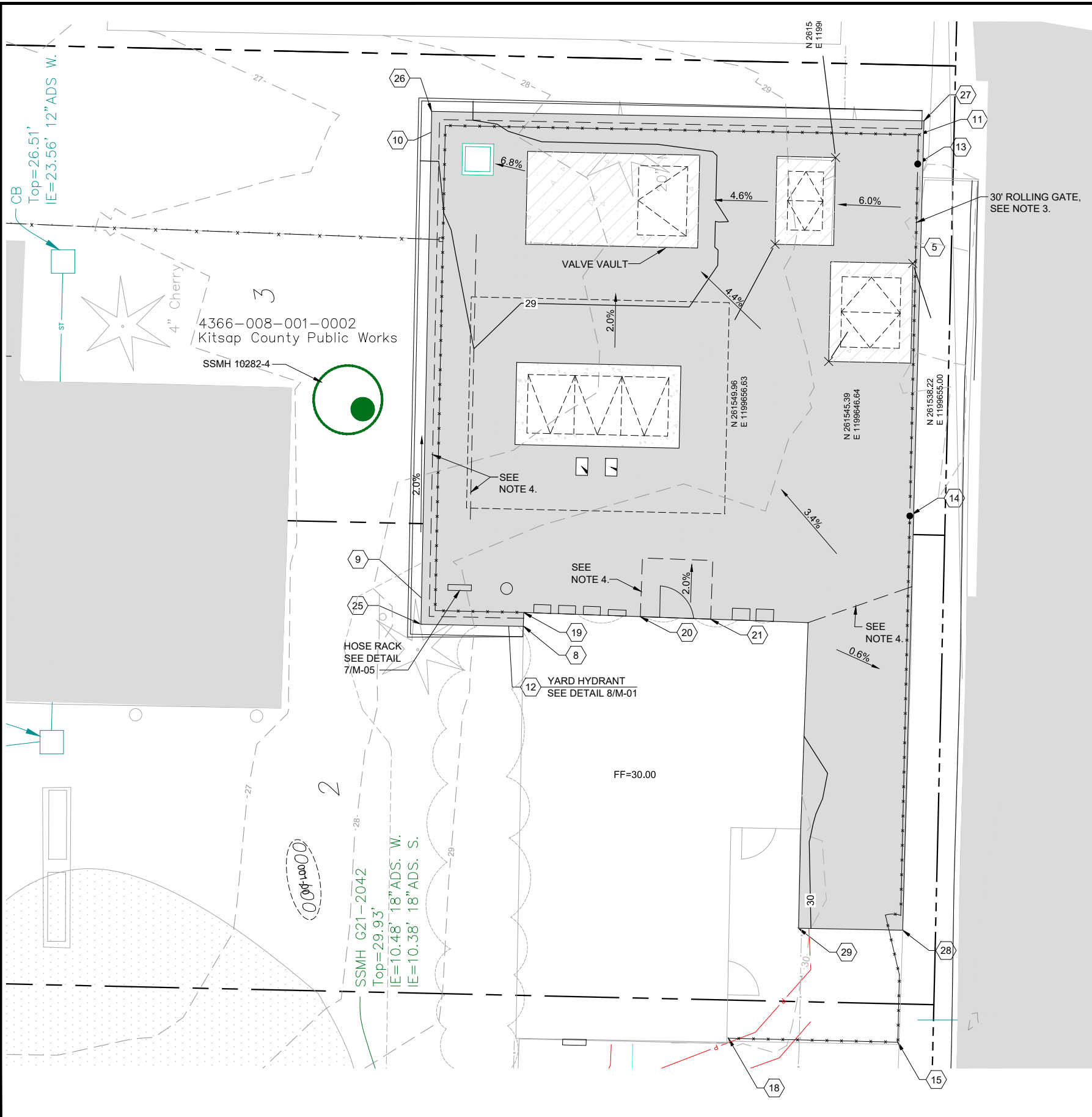
KITSAP COUNTY PS 16/67 UPGRADES
SITE PLAN AND GRADING PUMP STATION 67

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Drawing: **C-38**
 Sheet: **56** Of **101**
 File: 56-P13-10282_C-38
 Date: February 2017

RECORD DRAWING

FILE NAME (UPDATED BY)
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SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	NOTES
1	261563.92	1199637.63	29.24	LEVEL ELEMENT
2	261572.50	1199656.40	28.80	NW CORNER, VALVE VAULT
3	261557.10	1199664.90	28.89	SE CORNER, VALVE VAULT
4	261546.60	1199647.30	29.63	NW CORNER, FLOW METER VAULT
5	261539.40	1199655.40	29.63	SE CORNER, FLOW METER VAULT
6	261550.70	1199656.60	29.25	NW CORNER, PIG LAUNCH VAULT
7	261545.50	1199663.80	29.40	SE CORNER, PIG LAUNCH VAULT
8	261571.42	1199624.06	29.96	TOP OF WALL, EDGE OF PAVING
9	261578.93	1199625.41	29.74	NW CORNER, CHAIN LINK FENCE
10	261578.06	1199666.75	28.87	NE CORNER, CHAIN LINK FENCE
11	261537.75	1199665.97	29.93	SE CORNER, CHAIN LINK FENCE
12	261573.10	1199627.00	29.77	YARD HYDRANT
13	261537.76	1199663.50	29.88	EAST GATE POST
14	261538.48	1199633.48	29.84	WEST GATE POST
15	261539.49	1199588.62	29.63	SW CORNER, CHAIN LINK FENCE
16	261573.78	1199576.62	N/A	W CONNECTION TO EXIST W (SHEET C-38)
18	261553.94	1199588.96	30.15	TERMINAL GATE POST
19	261571.38	1199625.25	29.96	TERMINAL GATE POST
20	261561.44	1199624.90	29.96	NW CORNER, DOOR ENTRY PAD
21	261555.44	1199624.68	29.96	SW CORNER, DOOR ENTRY PAD
22	261561.26	1199629.89	29.86	NE CORNER, DOOR ENTRY PAD
23	261555.26	1199629.68	29.86	SE CORNER, DOOR ENTRY PAD
24	261575.60	1199663.50	28.63	CATCH BASIN RIM
25	261580.14	1199624.25	29.79	TOP OF WALL, EDGE OF PAVING
26	261579.22	1199667.96	28.93	TOP OF WALL, EDGE OF PAVING
27	261537.27	1199667.15	N/A	TOP OF WALL, EDGE OF PAVING
28	261539.08	1199598.18	29.64	EDGE OF PAVING, MATCH EXIST.
29	261547.95	1199598.34	30.05	EDGE OF PAVING, MATCH EXIST.
30	261547.60	1199606.79	30.03	EDGE OF PAVING, MATCH EXIST.
31	261547.14	1199624.38	29.96	EDGE OF PAVING
32	261545.13	1199635.11	29.80	TOPO GRADE SPOT ELEVATION
33	261575.93	1199633.19	29.40	TOPO GRADE SPOT ELEVATION
34	261575.80	1199639.28	29.05	TOPO GRADE SPOT ELEVATION
35	261575.65	1199646.75	29.02	TOPO GRADE SPOT ELEVATION
36	261575.42	1199657.46	28.80	TOPO GRADE SPOT ELEVATION
37	261566.42	1199637.68	29.24	LEVEL ELEMENT
38	261558.10	1199646.40	29.08	SE CORNER WET WELL HATCH
39	261572.00	1199639.80	29.06	NW CORNER WET WELL HATCH

- SITE GENERAL NOTES:**
- SEE DWG C-38 FOR SURVEY CONTROL POINT LOCATIONS NOT SHOWN BELOW.
 - SEE SHEET L-03 FOR FENCE DETAILS
 - SEE SPECIFICATIONS SECTION 02444.
 - APPROXIMATE GRADE BREAK LINE.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

RECORD DRAWING

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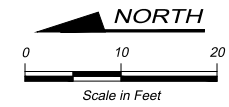
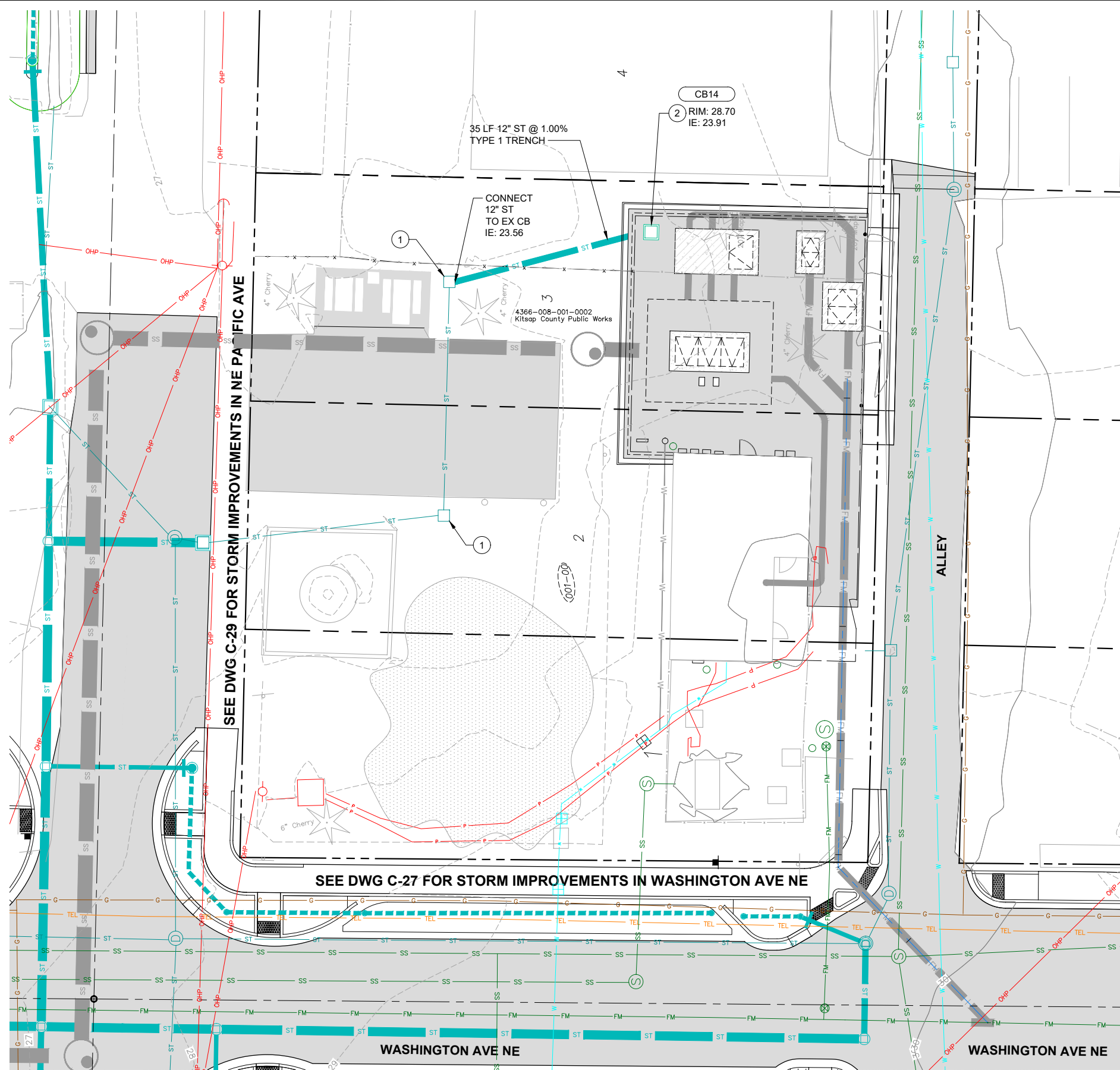
Designed: K. JACOBSON
 Drawn: P. WILHELM
 Checked: J. KOCH, P.E.
 Approved: B. BARTLE, P.E.
 Scale: 1"=5'
 One Inch At Full Scale
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KITSAP COUNTY PS 16/67 UPGRADES
ENLARGED SITE PLAN AND GRADING
PUMP STATION 67

Drawing: **C-39**
 Sheet: **57** Of **101**
 File: 57-P13-10282_C-39
 Date: February 2017

FILE NAME: (UPDATED BY)
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 PLOT DATE & TIME: APR 09 2013 07:13:40
 XREFS: X12-10237-01R-Prop_Silverdale, X12-10237-01R-Ex_Top_Silverdale, X12-10237-01R-Prfm, X12-10237-01R_IB



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
 - UNLESS OTHERWISE NOTED, ALL ST PIPE SHALL COMPLY WITH KITSAP STORMWATER DESIGN MANUAL, SECTION 4.3.1.
 - SEE SHEETS C-27 AND C-29 FOR STORMWATER WORK IN WASHINGTON AVE NE AND NE PACIFIC AVE RIGHT-OF-WAYS.

- CONSTRUCTION NOTES:**
- RESTORE AREA AROUND EXISTING CB AS NEEDED TO MATCH EXISTING GRADE.
 - CATCH BASIN TYPE I PER WSDOT STD DETAIL B-5.20-1 WITH VANED GRATE PER DETAIL 3/C-08.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.

RECORD DRAWING

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Scale:
1" = 10'

One Inch at Full Scale
If Not One Inch
Scale Accordingly

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KITSAP COUNTY PS 16/67 UPGRADES

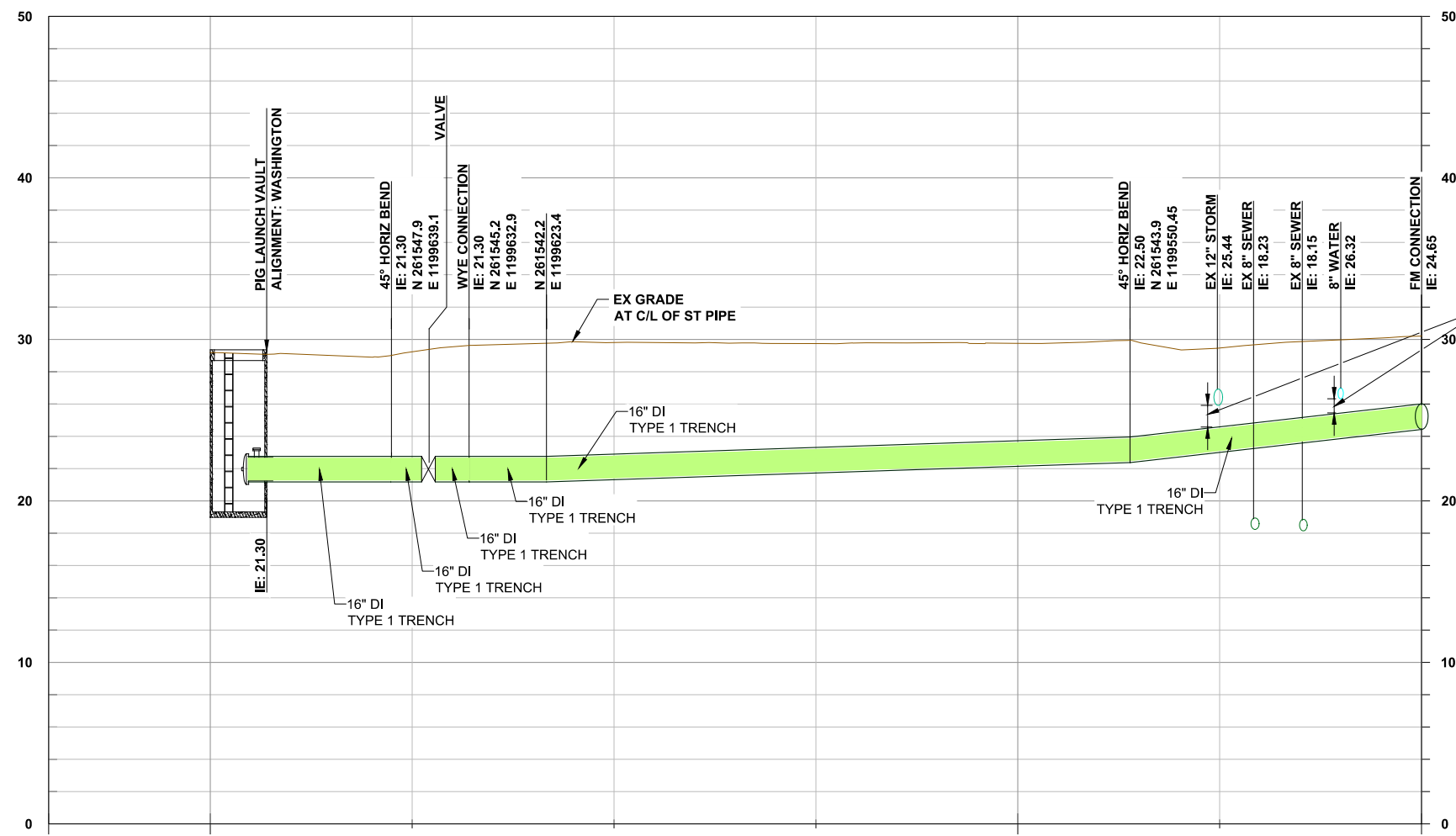
**STORMWATER PLAN
PUMP STATION 67**

Drawing: **C-40**
 Sheet: **58** Of **101**
 File: 58-P13-10282_C-40
 Date: February 2017

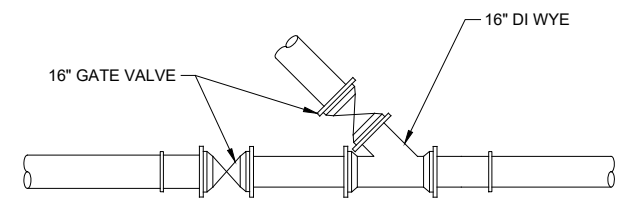
NOTES:

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
- INSTALL FORCE MAIN WITH A MINIMUM OF 12 INCHES OF VERTICAL CLEARANCE FROM WATER AND STORM WATER PIPING. SEE DETAIL 3/C-03.

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.



FM-PROFILE
SCALE: NTS

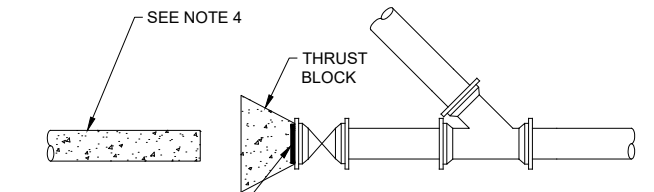


TEMPORARY BYPASS AND CONNECTION

DETAIL 1
SCALE: NTS C-38

NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONNECTING TO EXISTING FORCE MAIN.
- CONTRACTOR SHALL SUBMIT A TEMPORARY BYPASS SYSTEM USING COMPONENTS SUCH AS LINE STOPS AND HOT TAPS, SUCH THAT THE FORCE MAIN SHALL NOT BE SHUT DOWN TO INSTALL THE NEW WYE AND CONNECTION.
- CLOSE GATE VALVE AND INSTALL 16" MECHANICAL JOINT PLUG AND CONCRETE THRUST BLOCK.
- REMOVE 10 LF OF PIPE AND PLUG EXISTING PIPE WITH 2' OF CONCRETE.
- ALL BURIED DUCTILE IRON PIPE TO BE RESTRAINED JOINT.



ABANDON EXISTING FORCE MAIN

DETAIL 2
SCALE: NTS C-38

RECORD DRAWING

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FILE NAME: (UPDATED BY) [REDACTED]
 PLOT DATE & TIME: APR 09 2017 07:13:40
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Approved: B. BARTLE, P.E.
Scale: 1" = 10'
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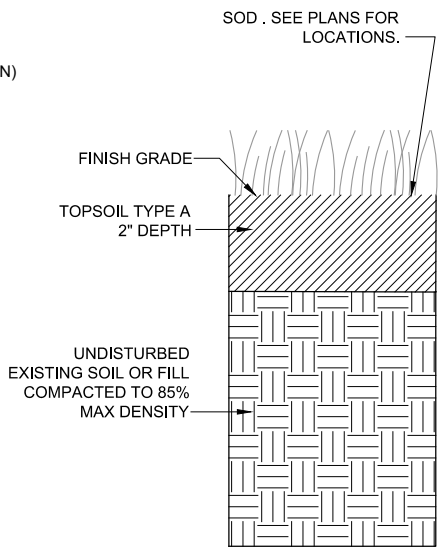
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KITSAP COUNTY PS 16/67 UPGRADES
FORCE MAIN PROFILE

Drawing: **C-41**
Sheet: **59** Of **101**
File: 59-P13-10282_C-41
Date: February 2017

PLANT SCHEDULE:

QTY	SCIENTIFIC NAME	COMMON NAME	SIZE/ROOT	SPACING	NOTES
3	ACER CIRCINATUM	VINE MAPLE	4' HT , B&B	PER PLAN	MULTI-STEM (3 STEM MIN)
3	CRATAEGUS CRUS-GALLI VAR. INERMIS	THORNLESS COCKSPUR HAWTHORN	1-1/2" CAL, B&B	PER PLAN	
2	PRUNUS SARGENTII 'PINK FLAIR'	PINK FLAIR FLOWERING CHERRY	1-1/2" CAL, B&B	PER PLAN	
220	ARCTOSTAPHYLS UVA-URSI	VANCOUVER JADE KINNICKINNICK	#1 CONT	16" OC	
18	CALAMAGROSIS 'KARL FORESTER'	KARL FORESTER FEATHER REED	#2 CONT	24" OC	
540	CAREX OBNUPTA	SLOUGH SEDGE	10 CU IN PLUG	10" OC	1/2 OF MIX
410	CAREX TESTACEA	ORANGE NEW ZEALAND SEDGE	10 CU IN PLUG	10" OC	
27	CARYOPTERIS X CLANDONENSIS	DARK KNIGHT BLUE MIST SPIREA	#1 CONT	PER PLAN	
76	CORNUS SERICIA 'KELSEYII'	KELSEY DOGWOOD	#2 CONT	24" OC	
29	GAULTHERIA SHALLON	SALAL	#1 CONT	18" OC	
12	HEMEROCALLIS 'BLACK EYED STELLA'	BLACK EYED STELLA DAYLILY	#1 CONT	18" OC	
190	IRIS DOUGLASII	DOUGLAS IRIS	4" CONT	10" OC	
1760	JUNCUS PATENS 'ELK BLUE'	ELK BLUE RUSH	10 CU IN PLUG	10" OC	
540	JUNCUS TENUIS	SLENDER RUSH	10 CU IN PLUG	10" OC	1/2 OF MIX
12	MYRICA CALIFORNICA	CALIFORNIA WAX MYRTLE	#5 CONT	60" OC	
74	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT OREGON GRAPE	#2 CONT	30" OC	
191	POLYSTICUM MUNITUM	WESTERN SWORDFERN	#1 CONT	18" OC	
6	RIBES SANGUINEUM 'KING EDWARD VII'	KING EDWARD FLOWERING CURRANT	#3 CONT	PER PLAN	
4	RHODODENDON 'NORTHERN LIGHTS'	GOLDEN NORTHERN LIGHTS AZALEA	#3 CONT	PER PLAN	
44	SPIRAEA JAPONICA 'GOLDFLAME'	GOLDFLAME JAPANESE SPIREA	#2 CONT	30" OC	
59	SYMPHORICARPUS X CHENAULTII	HANCOCK SNOWBERRY	#2 CONT	24" OC	
13	TAXUS CUSPIDATA 'EMERALD SPREADER'	EMERALD SPREADER JAPANESE YE W	#2 CONT	PER PLAN	
37	VIBURNUM DAVIDII	DAVID'S VIBURNUM	#2 CONT	36" OC	
144	VINCA MINOR '24 CARAT'	24 CARAT GOLDEN PERIWINKLE	4" CONT	16" OC	
2620 SF	SOD LAWN				
760 SF	SEEDED LAWN				

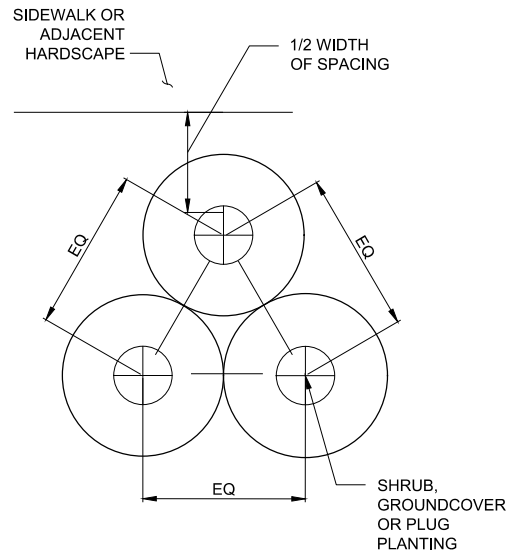


SOD AREA PREPARATION CONSTRUCTION SEQUENCE:

1. AFTER CONCRETE AND OTHER INFRASTRUCTURE WORK IS COMPLETED, ESTABLISH GRADE 2" BELOW FINISH GRADE IN SOD AREAS. SEE SPECIFICATIONS FOR REQUIREMENTS NEAR EXISTING TREES.
2. REMOVE ALL DEBRIS INCLUDING STUMPS, STICKS, ROOTS AND ROCKS OVER 1" AND DISPOSE OFF SITE. ENG SHALL REVIEW AND APPROVE SUBGRADE PRIOR TO PROCEEDING WITH WORK.
3. INSTALL 2" DEPTH OF COMPACTED PLANTING SOIL MIX. ENGINEER SHALL REVIEW AND APPROVE TOPSOIL INSTALLATION PRIOR TO PROCEEDING WITH WORK.
4. INSTALL SOD.

NOTES:

1. TAKE CARE TO NOT DAMAGE ROOTS OF EXISTING TREES. ROOTS LARGER THAN 2" IN DIAMETER MAY ONLY BE CUT IN THE PRESENCE OF AN ARBORIST.

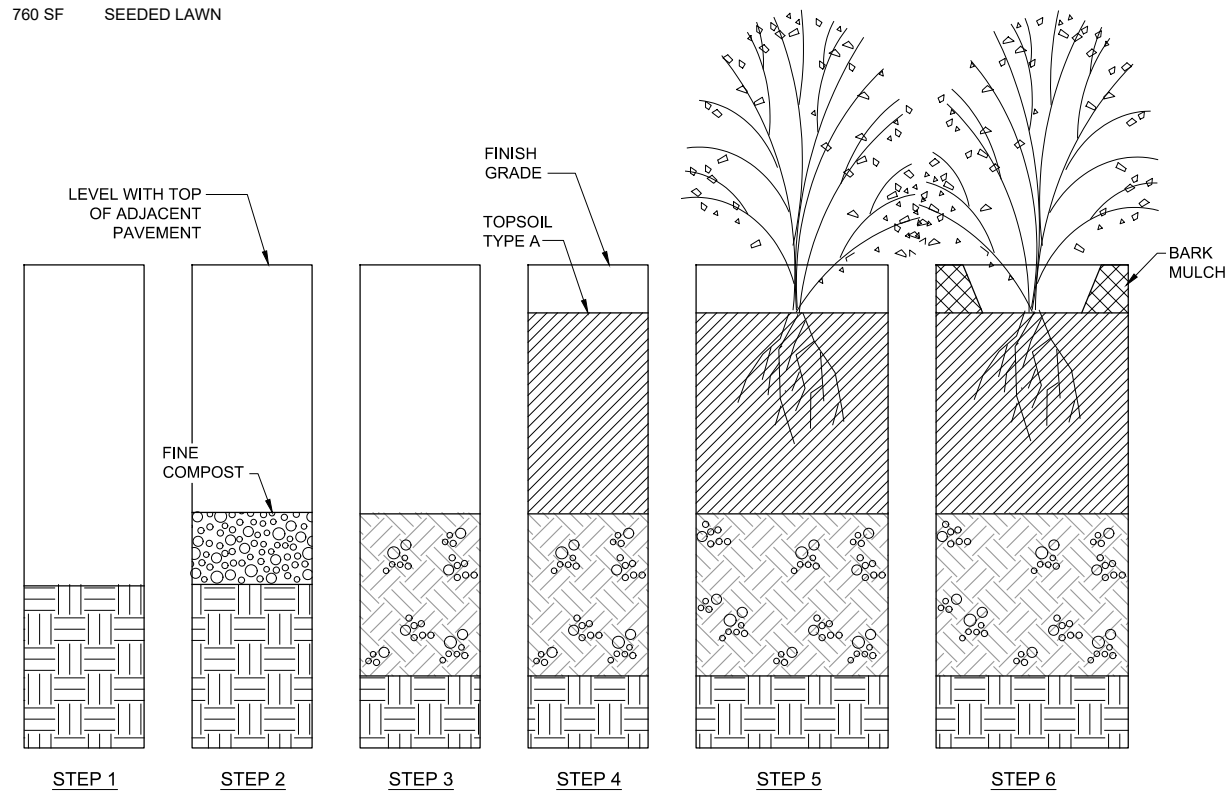


SOD AREA PREPARATION

DETAIL 1
SCALE: NTS TYP

PLANT SPACING

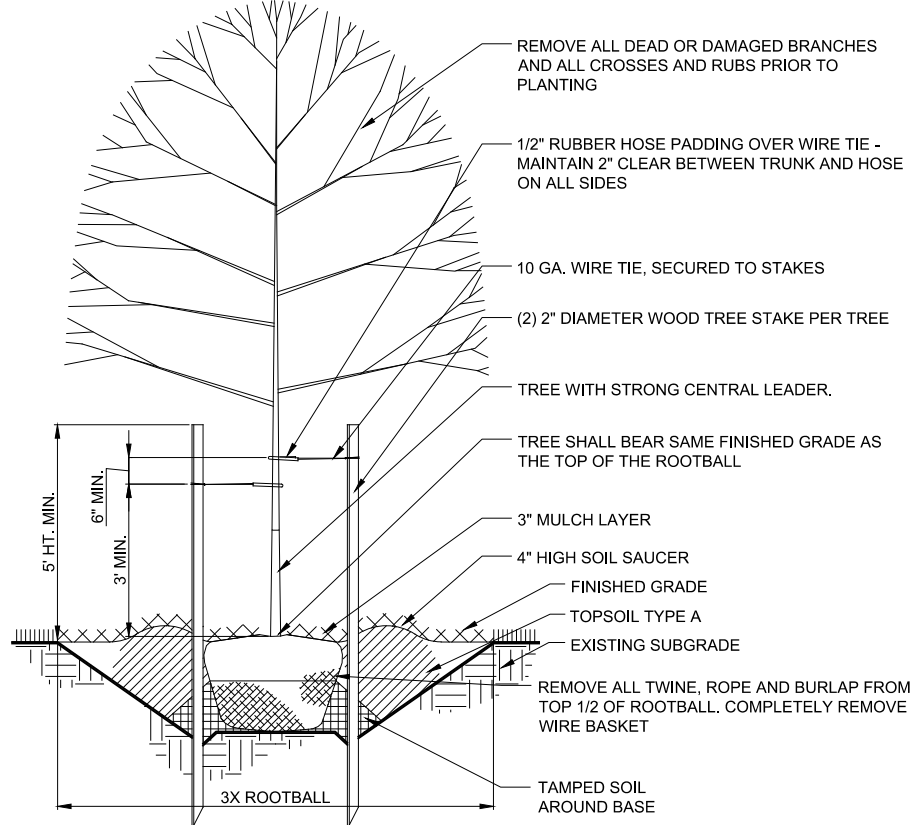
DETAIL 2
SCALE: NTS TYP



LANDSCAPE PLANTING AREA PREPARATION

DETAIL 3
SCALE: NTS TYP

- STEP 1**
EXCAVATE EX SOIL TO 18" BELOW FINISH GRADE. AVOID UNDERMINING NEARBY FEATURES.
- STEP 2**
INSTALL 3" DEPTH FINE COMPOST
- STEP 3**
SCARIFY FINE COMPOST TO A 6" DEPTH. ENGINEER SHALL REVIEW & APPROVE SCARIFICATION PRIOR TO PROCEEDING TO STEP 4.
- STEP 4**
INSTALL 12" DEPTH TOPSOIL TYPE A AND REVIEW FINISH GRADE WITH ENGINEER PRIOR TO PLANTING
- STEP 5**
INSTALL PLANTS AND MATERIALS PER PLANS
- STEP 6**
INSTALL 3" DEPTH BARK MULCH
- NOTES:**
1. ALL DIMENSION INDICATE COMPACTED DEPTHS.
 2. TAKE CARE TO NOT DAMAGE ROOTS OF EXISTING TREES. ROOTS LARGER THAN 2" IN DIAMETER MAY ONLY BE CUT IN THE PRESENCE OF AN ARBORIST.



TREE PLANTING
DETAIL 4
SCALE: NTS TYP

FILE NAME (UPDATED BY) PLOT DATE & TIME
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DATE: APR 09 2017 07:13:40
XREFS: 12-10237-01PL-Prop_Silverdale, 12-10237-01PL_Ex_Prof_Silverdale, 12-10237-01PL_Ex_Top_Silverdale, 12-10237-01PL_Prelim, 12-10237-01PL_IB

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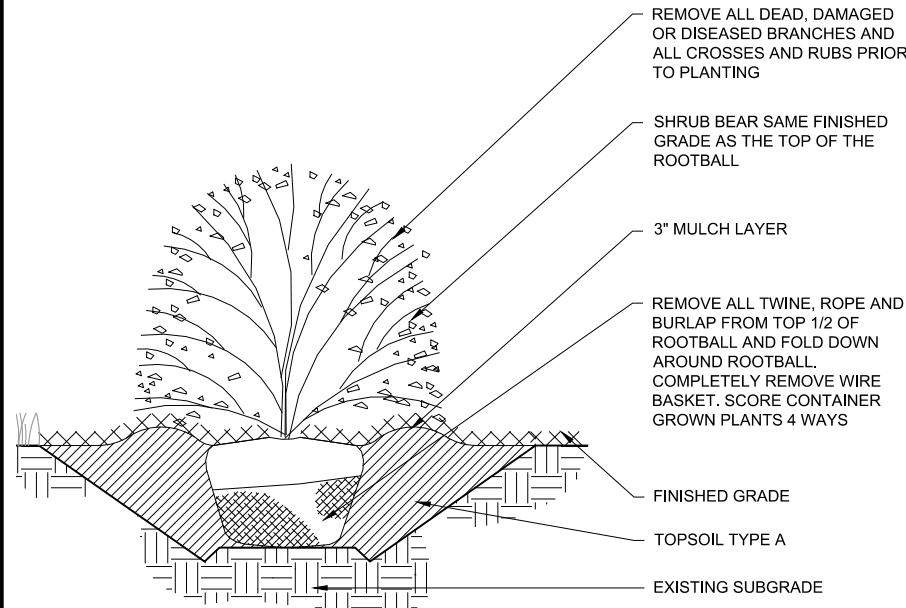
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Scale: NONE
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Approved: R. WALDHER
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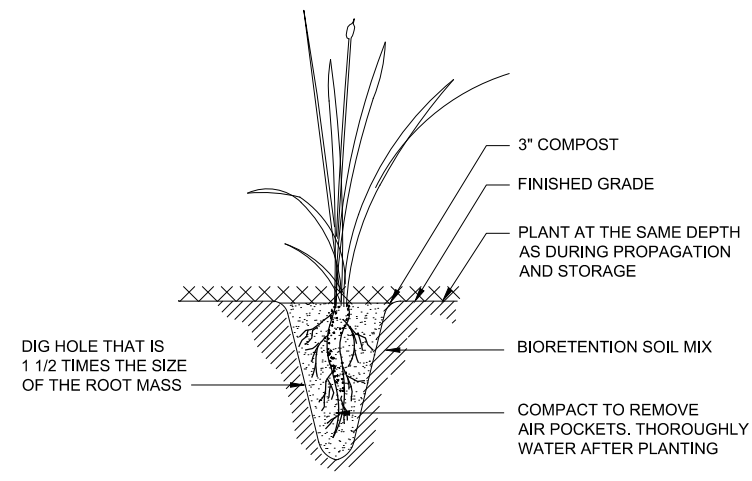
KITSAP COUNTY PS 16/67 UPGRADES
LANDSCAPE SCHEDULE AND DETAILS

Drawing: **L-01**
Sheet: **60** Of **101**
File: 60-P13-10282_L-01
Date: February 2017



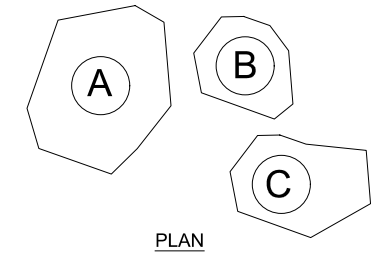
SHRUB & GROUND COVER PLANTING

DETAIL 1
SCALE: NTS TYP



EMERGENT PLANTING

DETAIL 2
SCALE: NTS TYP

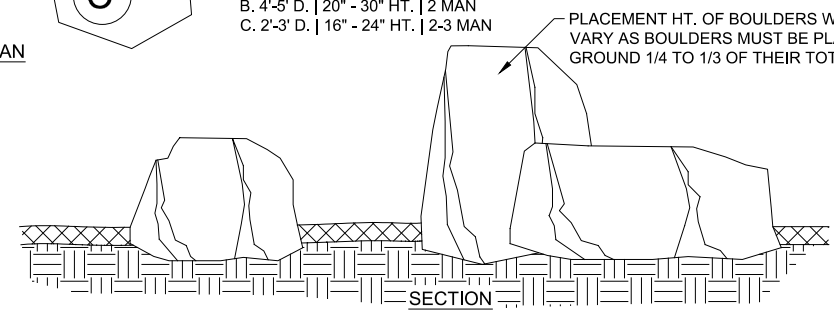


NOTES:

1. REGIONAL GRANITE BOULDERS COMMON TO LOCAL AREA
2. LANDSCAPE ARCHITECT & OWNER TO APPROVE MATERIAL
3. BOULDERS SHOULD BE PLACED W/ APPROVAL FROM THE LANDSCAPE ARCHITECT.
4. ABOVE GRADE HT. WILL VARY AS BOULDERS MUST BE PLACED IN GROUND A MIN. OF 1/4 THEIR TOTAL HT.
5. SEE PLAN FOR LAYOUT ARRANGEMENT

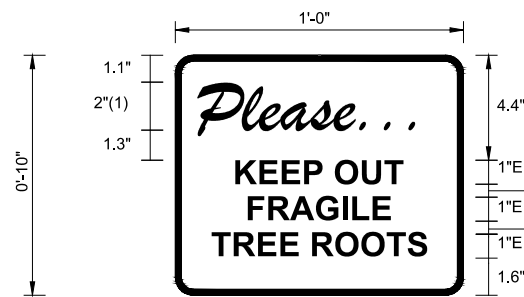
APPROXIMATE SIZES:

- A. 7'-9" D. | 16" - 24" HT. | 1 MAN
- B. 4'-5" D. | 20" - 30" HT. | 2 MAN
- C. 2'-3" D. | 16" - 24" HT. | 2-3 MAN



LANDSCAPE BOULDER

DETAIL 3
SCALE: NTS TYP



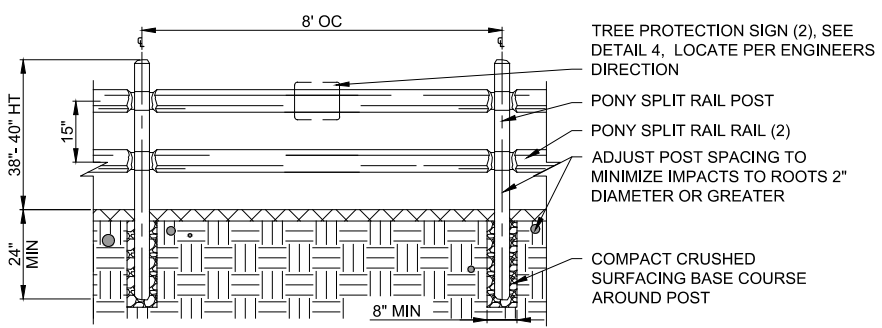
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R=0.75"
TH=0.25"

FONT:
(1) BRUSH SCRIPT MT ITALIC

LEGEND - BLACK (NON-REFL.)
BACKGROUND - WHITE (NON-REFL.)

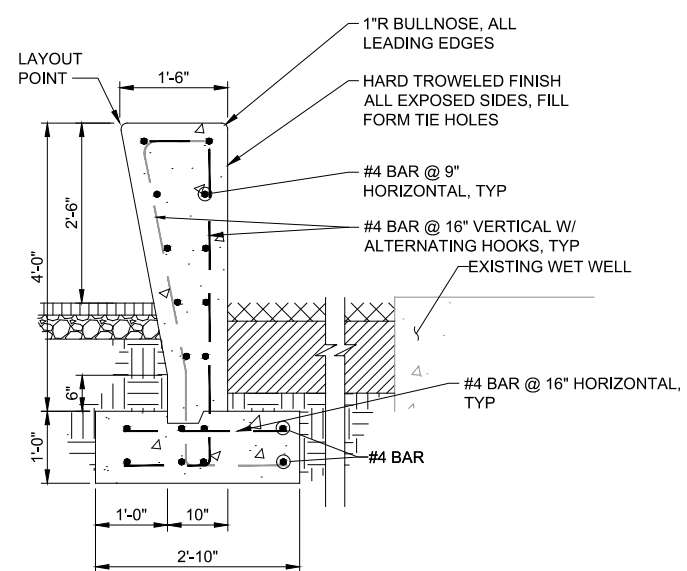
TREE PROTECTION SIGN

DETAIL 4
SCALE: NTS TYP



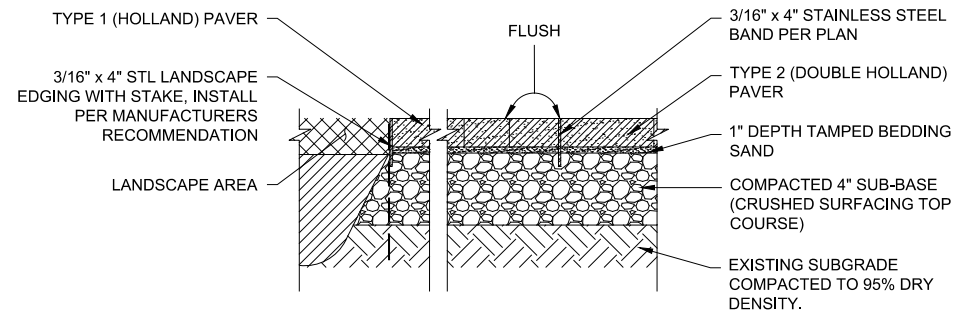
CEDAR SPLIT RAIL FENCE

DETAIL 5
SCALE: NTS TYP



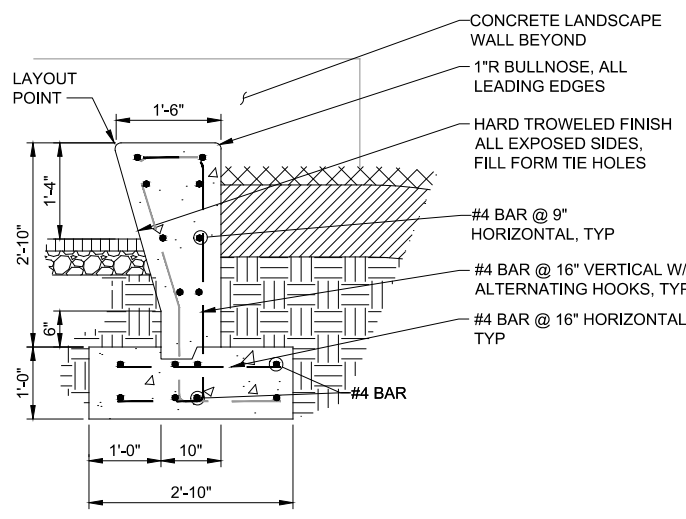
CONCRETE LANDSCAPE WALL

DETAIL 8
SCALE: 3/4" = 1'-0" TYP



PRECAST CONCRETE PAVER INSTALLATION

DETAIL 6
SCALE: 1 1/2" = 1'-0" TYP



CONCRETE LANDSCAPE SEATWALL

DETAIL 7
SCALE: 3/4" = 1'-0" TYP

FILE NAME (UPDATED BY) PLOT DATE & TIME
S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\F12-10237-01PL_Prelim.dwg
APR 09 2013 07:13:40
XREFS: X12-10237-01PL-Prop_Silverdale, X12-10237-01PL_Ex_Top_Silverdale, X12-10237-01PL_Prelim, X12-10237-01PL_IB

No.	Revision	Date	By	App'd

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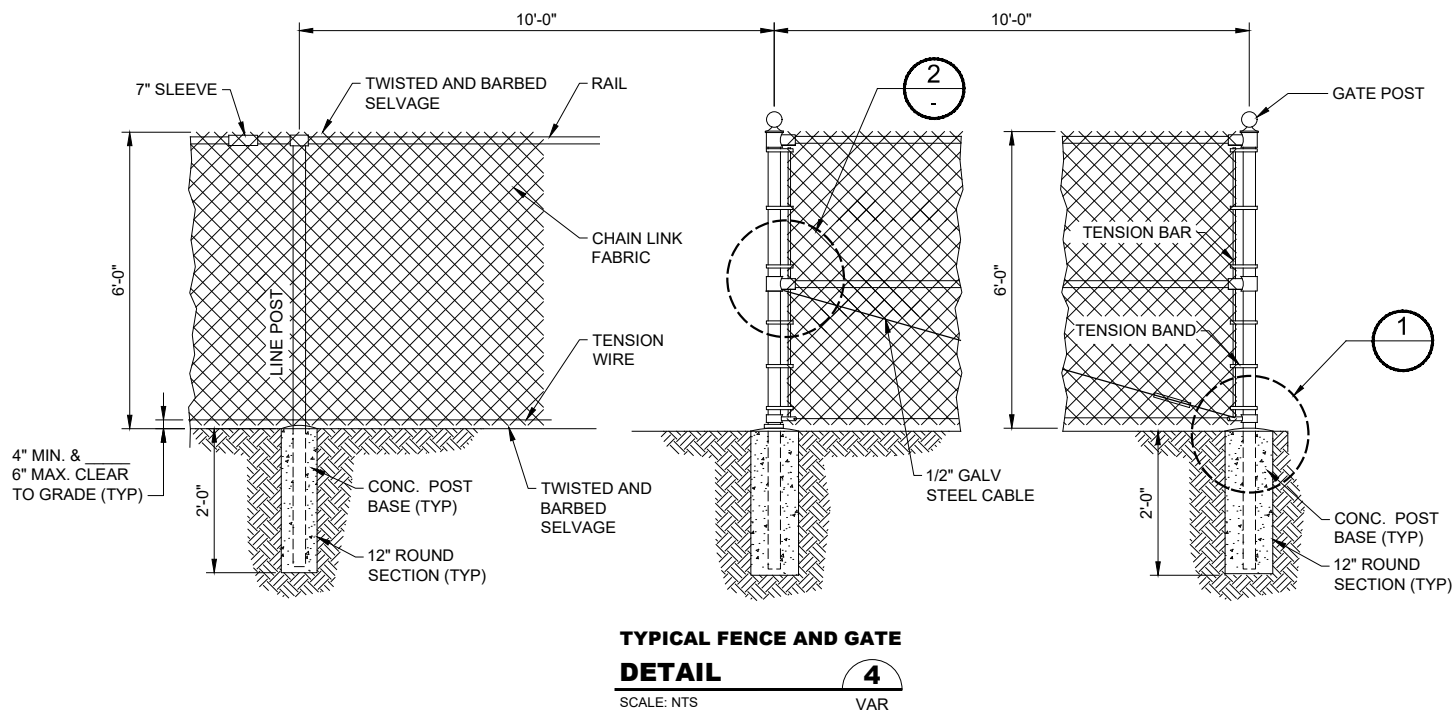
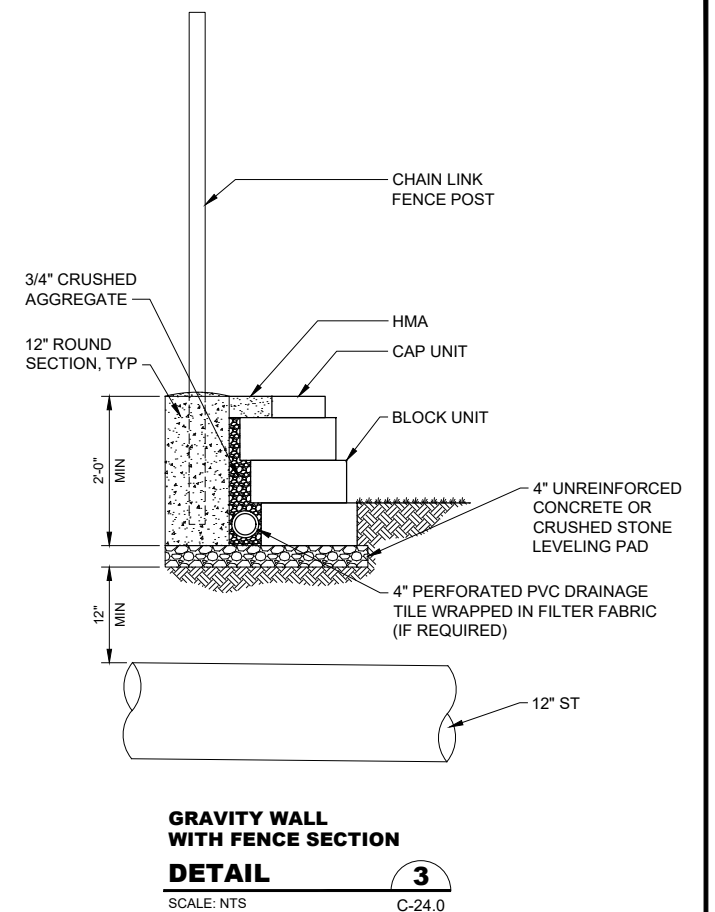
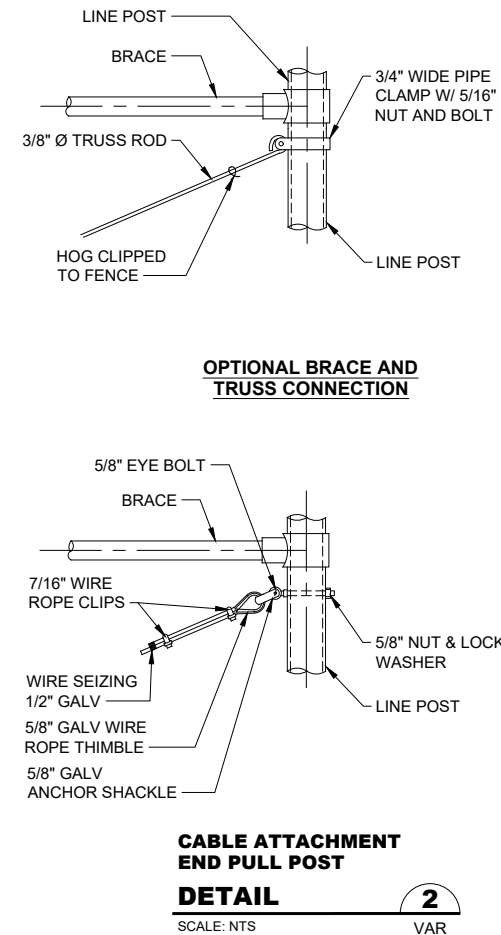
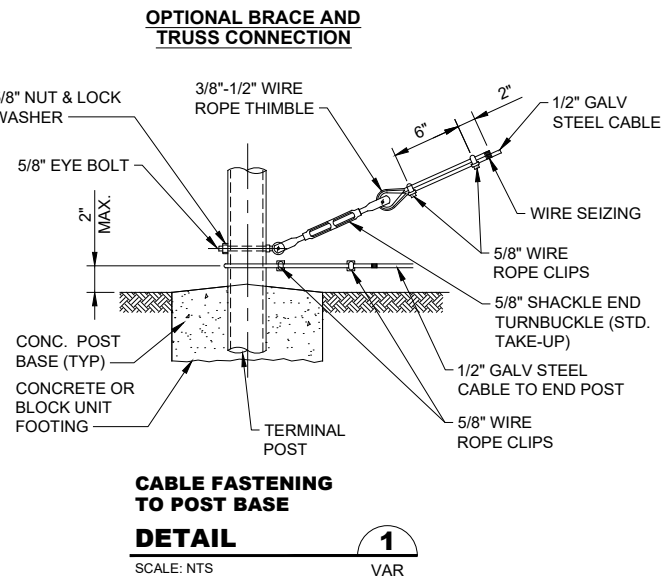
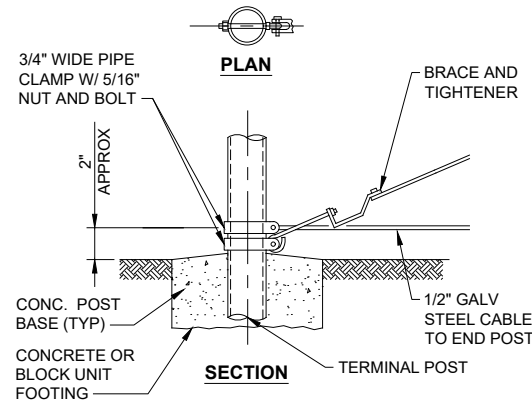
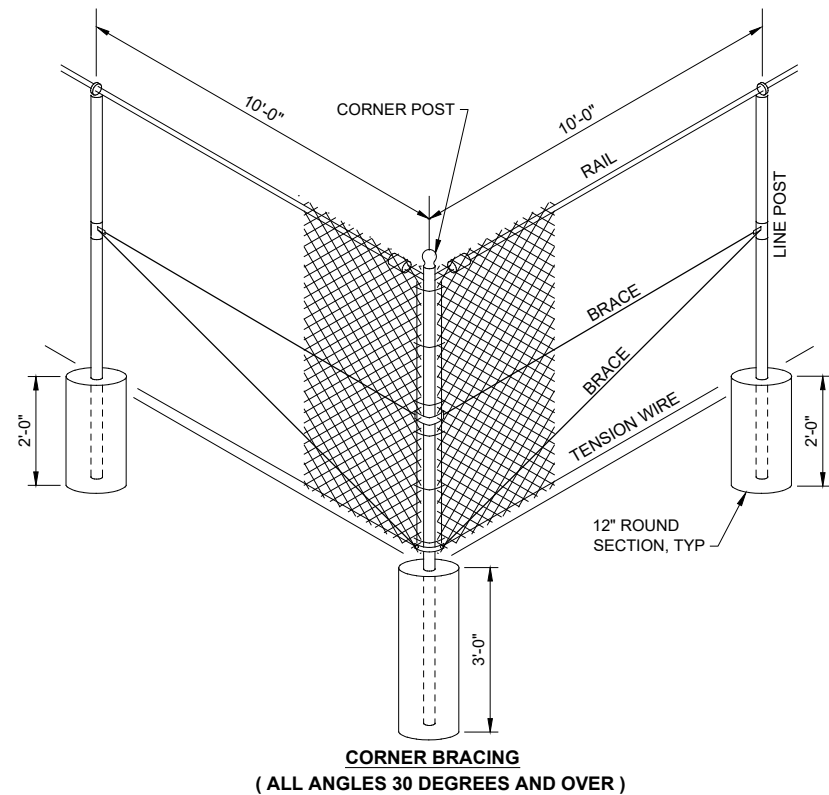
Designed: M. GURRAD
Drawn: W. NEWELL
Checked: R. WALDHER
Approved: R. WALDHER
Scale: NONE
One Inch At Full Scale
If Not One Inch Scale Accordingly

KITSAP COUNTY
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
LANDSCAPE DETAILS

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UNDERGROUND SERVICE
Drawing: L-02
Sheet: 61 Of 101
File: 61-P13-10282_L-02
Date: February 2017

MEMBER												
BRACE OR TOP RAIL				LINE POST				END, CORNER & PULL POST		GATE POST		OPENING
ROUND		HIGH COLUMN		ROUND		HIGH COLUMN		ROUND		ROUND		
O.D.	WEIGHT #FT	SIZE	WEIGHT #FT	O.D.	WEIGHT #FT	SIZE	WEIGHT #FT	O.D.	WEIGHT #FT	O.D.	WEIGHT #FT	
1-5/8"	2.27			2-3/8"	3.65			2 7/8"	5.79	4"	9.12	6.00



- NOTES:**
- ALL CONCRETE POST BASES SHALL BE f_c 4000 PSI NORMAL WEIGHT CEMENT CONCRETE PER SPECIFICATION SECTION 03002, AND 12" MIN. DIAMETER.
 - ALL POSTS SHALL BE SPACED AT 10' MAXIMUM INTERVALS UNLESS OTHERWISE DIRECTED BY THE PROJECT REPRESENTATIVE.
 - CHANGES IN FENCE ALIGNMENT OF 30 DEGREE OR MORE BE CONSIDERED AS CORNERS, AND CORNER POST SHALL BE INSTALLED.
 - INSTALL ONE 10'-0" GATE AT THE LOCATION AS SHOWN ON DWG. C-38 WITH LOCKING DEVICE AS DIRECTED BY THE PROJECT REPRESENTATIVE.
 - CONCRETE AROUND POST AT GROUND LINE SHALL BE MOUNDED FOR DRAINAGE.

FILE NAME (UPDATED BY) MAR 04 2014 17:07:32
 C:\PWORKING\SEA\00950325\PS1-10282-C-18-11706 (MAN)
 XREFS: Kitsap_Ps_13-10282-01PS_Prelim

No.	Revision	Date	By	App'd

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Designed: K. JACOBSON
Drawn: P. WILHELM
Checked: J. KOCH, P.E.
Approved: B. BARTLE, P.E.

Scale: NONE
One Inch At Full Scale
If Not One Inch Scale Accordingly

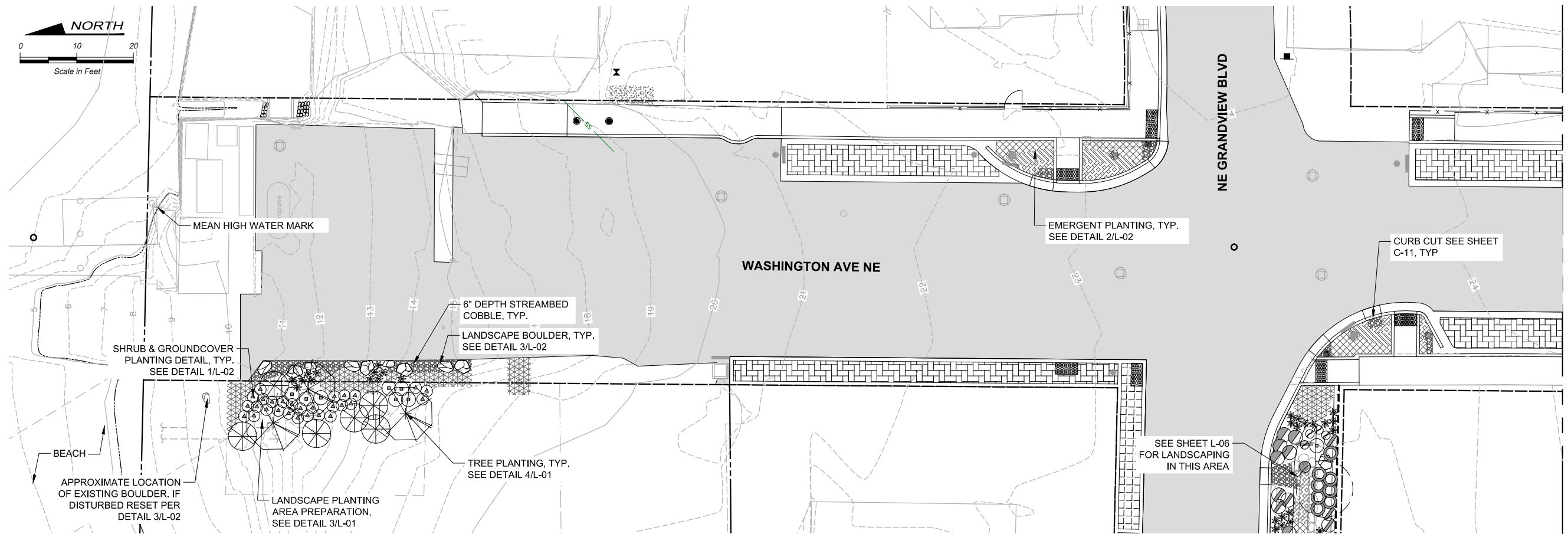
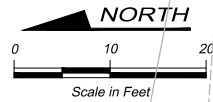
KITSAP COUNTY
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KITSAP COUNTY PS 16/67 UPGRADES
LANDSCAPING FENCING DETAILS

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Drawing: **L-03**
Sheet: **62** Of **101**
File: 62-P13-10282_L-03
Date: February 2017

RECORD DRAWING



MATCHLINE STA 12+50 - SEE DWG L-05

LANDSCAPING GENERAL NOTES:

- SEE L-01 & L-02 FOR LANDSCAPE SCHEDULE AND DETAILS.

LANDSCAPING LEGEND

- VINE MAPLE
- RED FLOWERING CURRANT
- GOLDMOUND SPIREA
- KELSEY DOGWOOD
- HANCOCK SNOWBERRY
- BLUE MIST CARYOPTERIS
- WESTERN SWORDFERN
- SALAL
- COMPACT OREGON GRAPE
- KINNICKINNICK
- DOUGLAS IRIS
- SLOUGH SEDGE & SLENDER RUSH MIX
- ELK'S BLUE RUSH
- ORANGE NEW ZEALAND SEDGE
- STREAMBED COBBLE
- SEEDED LAWN
- LANDSCAPE BOULDERS
- LANDSCAPE EDGING

RECORD DRAWING

**Call 48 Hours
Before You Dig**
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UNDERGROUND SERVICE

FILE NAME (UPDATED BY) PLOT DATE & TIME
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XREFS: 12-10237-01PL-Prop_Silverdale, 12-10237-01PL-Ex_Prof_Silverdale, 12-10237-01PL-Ex_Topo_Silverdale, 12-10237-01PL_Prelim, 12-10237-01PL_IB

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Designed: M. GURRAD
Drawn: W. NEWELL
Checked: R. WALDHER
Approved: R. WALDHER

Scale:
1" = 10'
One Inch At Full Scale
If Not One Inch Scale Accordingly

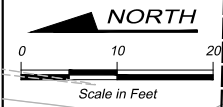
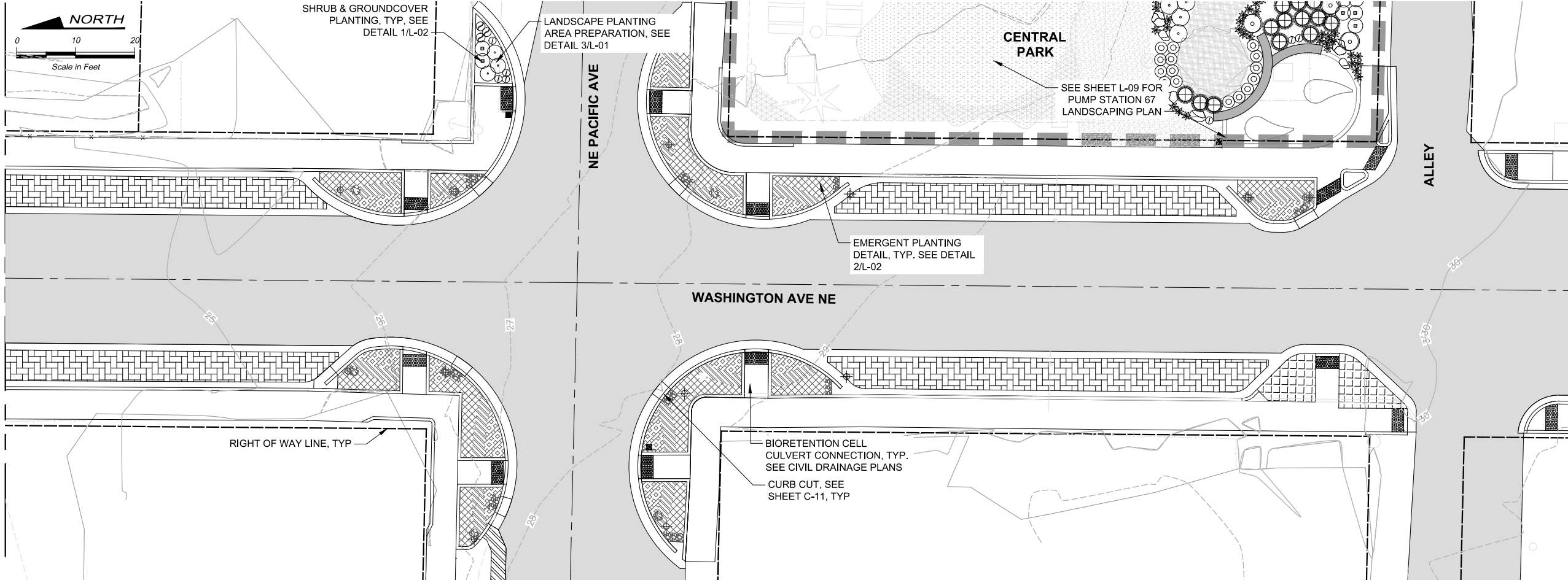
Kitsap County Public Works
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KITSAP COUNTY PS 16/67 UPGRADES

**LANDSCAPING PLAN
WASHINGTON AVE NE**

Drawing: **L-04**
Sheet: **63** Of **101**
File: 63-P13-10282_L-04
Date: February 2017

MATCHLINE STA 12+50 - SEE DWG L-04



SHRUB & GROUND COVER PLANTING, TYP. SEE DETAIL 1/L-02

LANDSCAPE PLANTING AREA PREPARATION, SEE DETAIL 3/L-01

CENTRAL PARK

SEE SHEET L-09 FOR PUMP STATION 67 LANDSCAPING PLAN

EMERGENT PLANTING DETAIL, TYP. SEE DETAIL 2/L-02

RIGHT OF WAY LINE, TYP

BIORETENTION CELL CULVERT CONNECTION, TYP. SEE CIVIL DRAINAGE PLANS
CURB CUT, SEE SHEET C-11, TYP

LANDSCAPING GENERAL NOTES:

1. SEE L-01 & L-02 FOR LANDSCAPE SCHEDULE AND DETAILS.

LANDSCAPING LEGEND

- SLOUGH SEDGE & SLENDER RUSH MIX
- ELK'S BLUE RUSH
- ORANGE NEW ZEALAND SEDGE
- STREAMBED COBBLE

FILE NAME (UPDATED BY) PLOT DATE & TIME
S:\CAD\KITSA\COUNTY\12-10237-01 PIPE DESIGN\DWG\P12-10237-01R_PP-SU.DWG (R.S.) APR 09 2013 07:13:40
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Designed: M. GURRAD
Drawn: W. NEWELL
Checked: R. WALDHER
Approved: R. WALDHER

Scale:
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If Not One Inch Scale Accordingly

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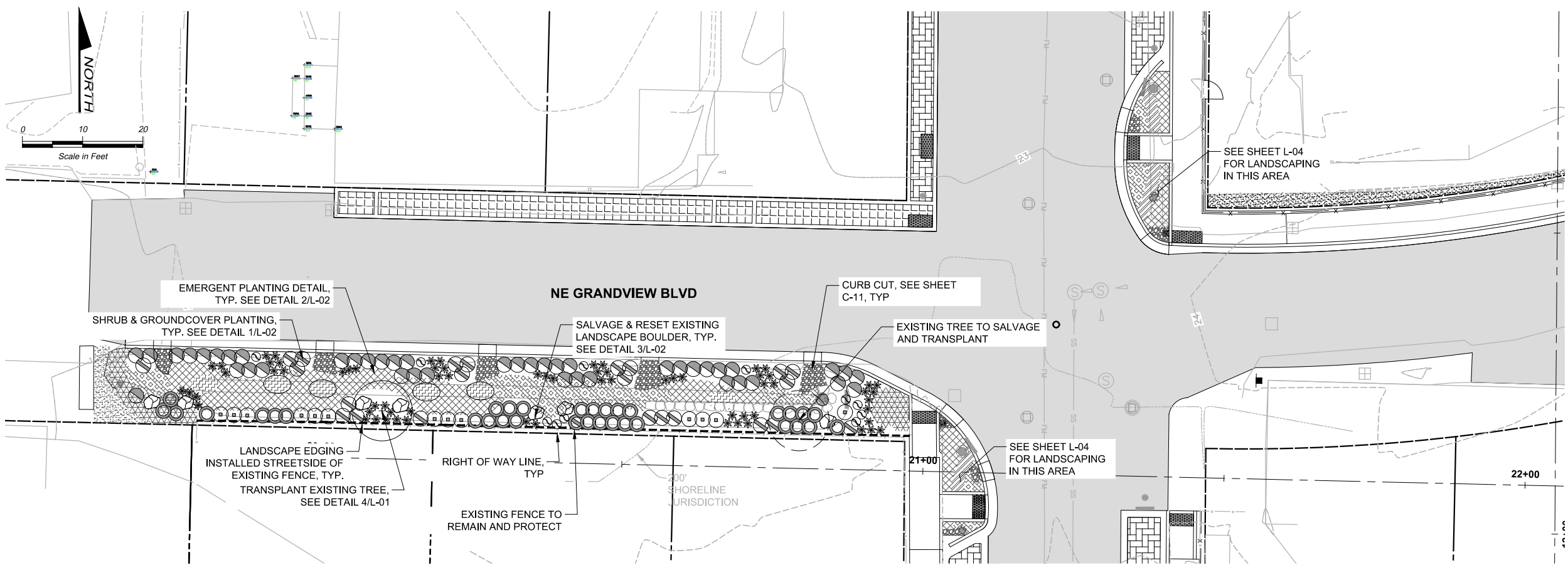
KITSA COUNTY PS 16/67 UPGRADES

**LANDSCAPING PLAN
WASHINGTON AVE NE**

RECORD DRAWING

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UNDERGROUND SERVICE

Drawing: **L-05**
Sheet: **64** Of **101**
File: 64-P13-10282_L-05
Date: February 2017



LANDSCAPING GENERAL NOTES:

- SEE L-01 & L-02 FOR LANDSCAPE SCHEDULE AND DETAILS.

LANDSCAPING LEGEND

- TRANSPLANTED JAPANESE MAPLE
- GOLDMOUND SPIREA
- KELSEY DOGWOOD
- HANCOCK SNOWBERRY
- BLUE MIST CARYOPTERIS
- WESTERN SWORDFERN
- COMPACT OREGON GRAPE
- DOUGLAS IRIS
- SLOUGH SEDGE & SLENDER RUSH MIX
- ELK'S BLUE RUSH
- ORANGE NEW ZEALAND SEDGE
- KINNICKINNICK
- STREAMBED COBBLE
- SEEDED LAWN
- LANDSCAPE BOULDER
- LANDSCAPE EDGING

FILE NAME (UPDATED BY) PLOT DATE & TIME
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No.	Revision	Date	By	App'd



Designed: M. GURRAD
 Drawn: W. NEWELL
 Checked: R. WALDHER
 Approved: R. WALDHER

Scale:
 1" = 10'
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



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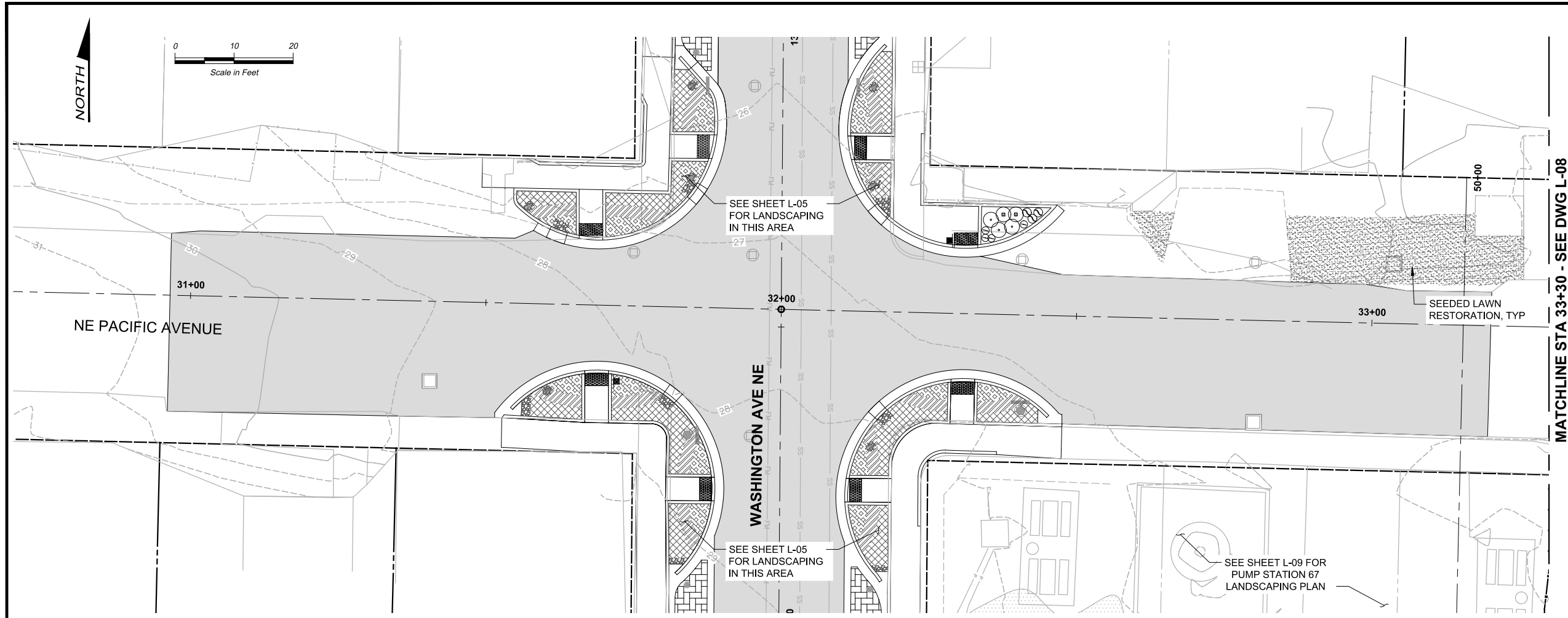
KITSAP COUNTY PS 16/67 UPGRADES

LANDSCAPING PLAN
NE GRANDVIEW BLVD

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Drawing: **L-06**
 Sheet: **65** Of **101**
 File: 65-P13-10282_L-06
 Date: February 2017



LANDSCAPING GENERAL NOTES:

- SEE L-1 & L-2 FOR LANDSCAPE SCHEDULE AND DETAILS.

LANDSCAPING LEGEND

- SLOUGH SEDGE & SLENDER RUSH MIX
- ELK'S BLUE RUSH
- ORANGE NEW ZEALAND SEDGE
- STREAMBED COBBLE
- SEEDED LAWN

FILE NAME (UPDATED BY) PLOT DATE & TIME
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No.	Revision	Date	By	App'd



Designed: M. GURRAD
 Drawn: W. NEWELL
 Checked: R. WALDHER
 Approved: R. WALDHER

Scale:
 1" = 10'
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



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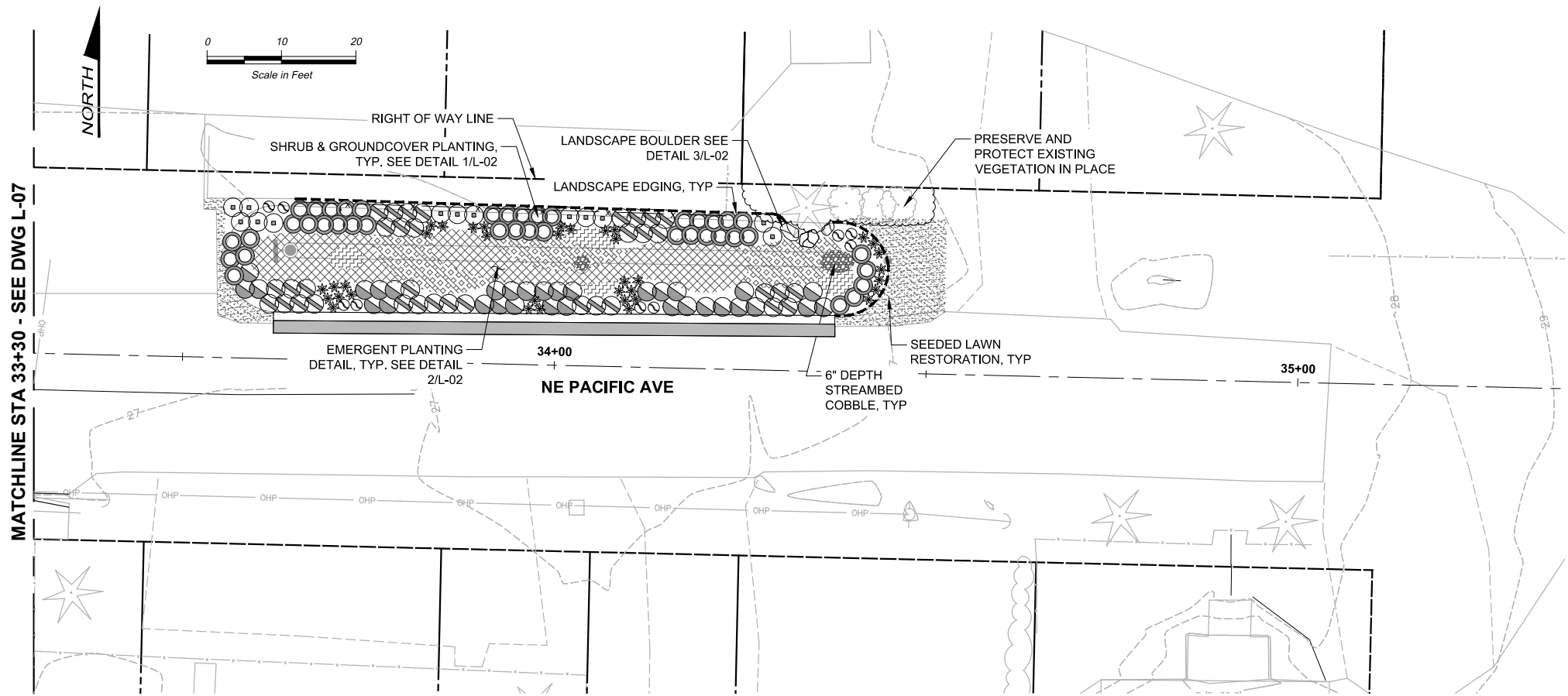
KITSAP COUNTY PS 16/67 UPGRADES
LANDSCAPING PLAN
NE PACIFIC AVE

Drawing: **L-07**
 Sheet: **66** Of **101**
 File: 66-P13-10282_L-07
 Date: February 2017

RECORD DRAWING

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FILE NAME: (UPDATED BY)
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 PLOT DATE & TIME: APR 09 2013 07:13:40
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LANDSCAPING GENERAL NOTES:

- SEE L-01 & L-02 FOR LANDSCAPE SCHEDULE AND DETAILS.

LANDSCAPING LEGEND

- GOLDMOUND SPIIEEA
- KELSEY DOGWOOD
- HANCOCK SNOWBERRY
- BLUE MIST CARYOPTERIS
- WESTERN SWORDFERN
- DOUGLAS IRIS
- SLOUGH SEDGE, SAWBEAK SEDGE & SLENDER RUSH MIX
- ELK'S BLUE RUSH
- STREAMBED COBBLE
- SEEDING LAWN
- LANDSCAPE BOULDER
- LANDSCAPE EDGING

RECORD DRAWING

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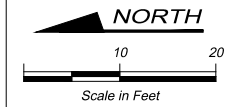
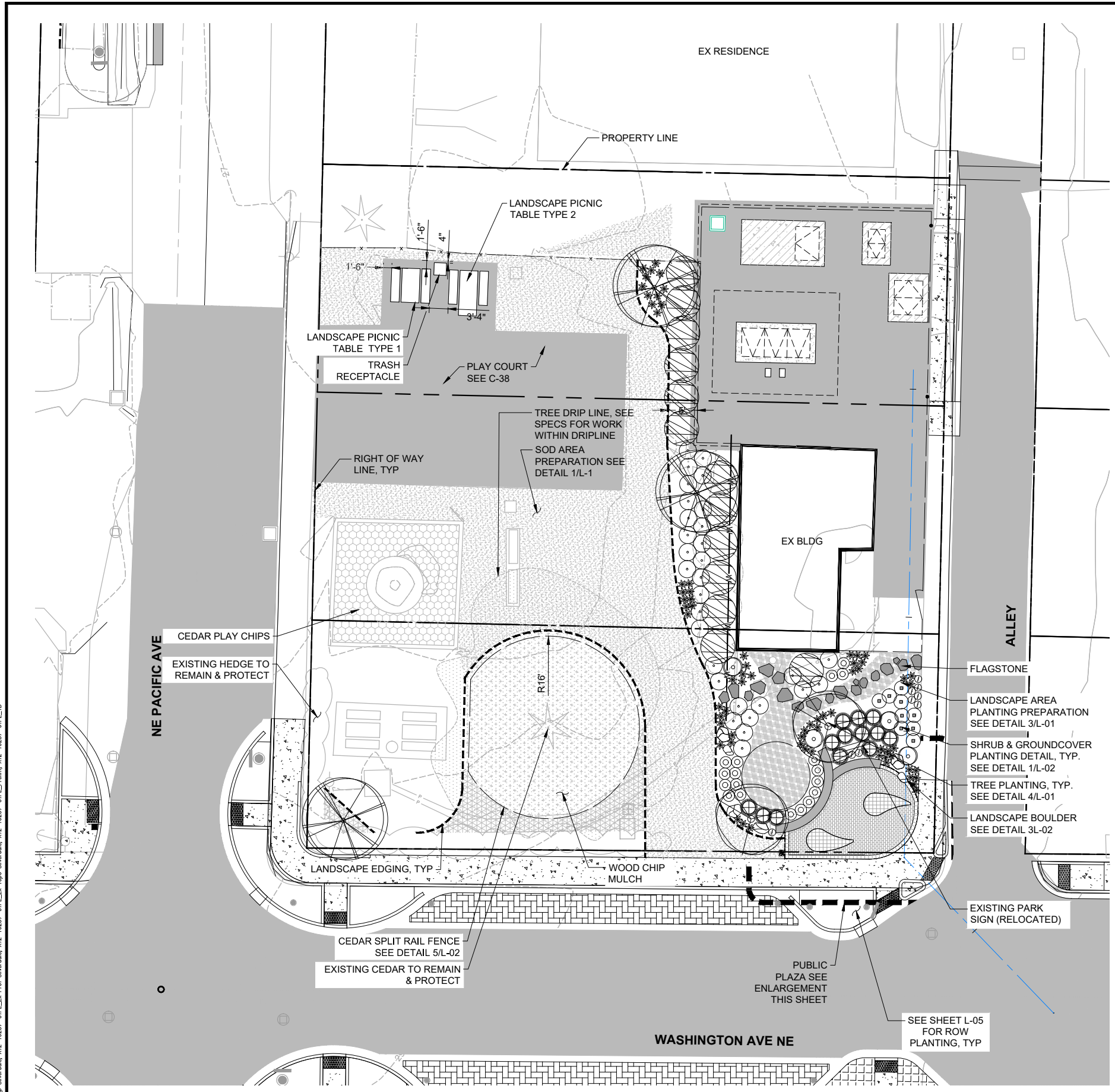
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KITSAP COUNTY PS 16/67 UPGRADES

LANDSCAPING PLAN
NE PACIFIC AVE

Drawing: **L-08**
 Sheet: **67** Of **101**
 File: 67-P13-10282_L-08
 Date: February 2017

FILE NAME (UPDATED BY) PLOT DATE & TIME
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 XREFS: X12-10237-01PL-Prop_Silverdale, X12-10237-01PL_Ex_Prof_Silverdale, X12-10237-01PL_Ex_Topo_Silverdale, X12-10237-01PL_Ex_Topog_Silverdale, X12-10237-01PL_Ex_Topog_Silverdale, X12-10237-01PL_Ex_Topog_Silverdale



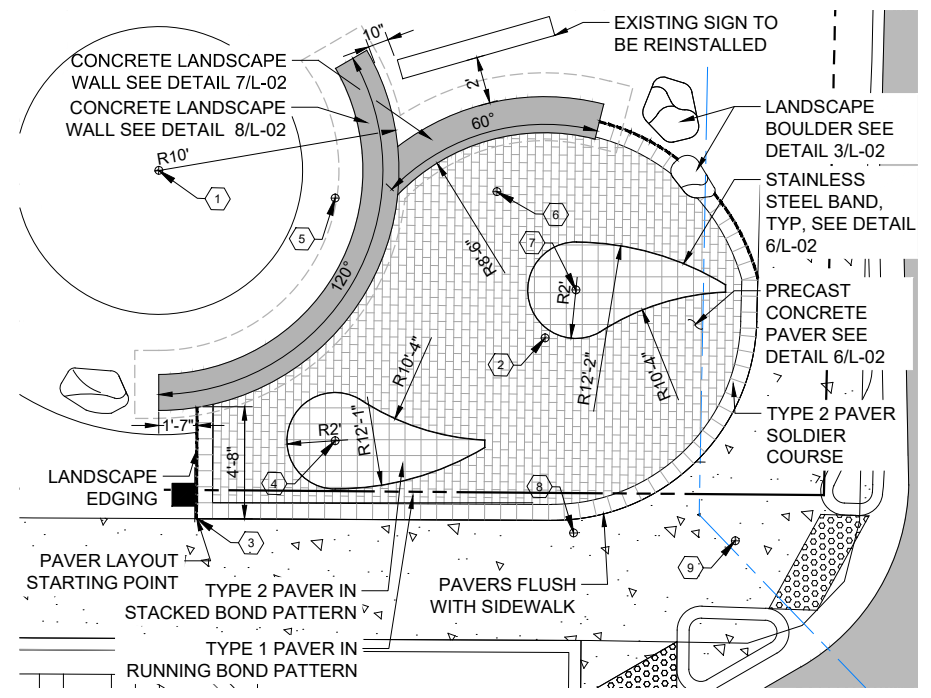
LANDSCAPING LEGEND

	THORNLESS COCKSPUR HAWTHORN		DAYLILY
	PINK FLAIR CHERRY		WESTERN SWORDFERN
	CALIFORNIA WAX MYRTLE		GOLDEN LEAF PERIWINKLE
	JAPANESE YEAW		KINNICKINICK
	NORTHERN HIGHLIGHT AZALEA		SOD LAWN
	DAVID'S VIBURNUM		WOOD CHIP MULCH
	GOLDFLAME SPIREA		PLAY CHIPS
	KARL FORESTER FEATHER REED GRASS		LANDSCAPE EDGING
			FLAGSTONE
			LANDSCAPE BOULDERS

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	NOTES
1	1199566.94	261565.03	CENTER POINT WALL
2	1199559.96	261548.94	CENTER POINT WALL
3	1199552.4	261563.43	PAVER LAYOUT STARTING POINT
4	1199555.68	26155.7.68	TYPE 2 PAVER POINT
5	1199565.8	261557.68	TYPE 2 PAVER POINT
6	1199566.05	261555.94	TYPE 2 PAVER POINT
7	1199561.95	261547.65	TYPE 2 PAVER POINT
8	1199551.86	261547.75	TYPE 2 PAVER POINT
9	1199551.52	261541.02	TYPE 2 PAVER POINT

NOTE: NORTHINGS AND EASTINGS REVISED PER SURVEYED AS-BUILT CONDITIONS. PIPE ALIGNMENT AND STRUCTURE LOCATIONS WERE NOT UPDATED ON PLANS.



DETAIL 1
 SCALE: 3" = 1'-0"

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Designed: M. GURRAD
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 Checked: R. WALDHER
 Approved: R. WALDHER
 Scale: 1" = 10'
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

KITSAP COUNTY
 Kitsap County Public Works
 614 Division Street, MS 26
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KITSAP COUNTY PS 16/67 UPGRADES
 LANDSCAPING PLAN
 PUMP STATION 67

Drawing: **L-09**
 Sheet: **68** Of **101**
 File: 68-P13-10282_L-09
 Date: February 2017

GENERAL STRUCTURAL NOTES

A. GENERAL

1. SCOPE
THE GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS OR MODIFICATIONS TO THE CONTRARY.

2. APPLICABLE SPECIFICATIONS AND CODES
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE, (SEE BELOW). THE PROVISIONS OF THE BUILDING CODE SHALL SUPERSEDE THE PLANS AND SPECIFICATIONS EXCEPT WHERE THE PLANS AND SPECIFICATIONS ARE MORE RESTRICTIVE.

IN ADDITION TO THE BUILDING CODE, CONSTRUCTION SHALL CONFORM TO OTHER STANDARDS AND CODES AS REFERENCED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

3. DIMENSIONS
STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUITS, ETC., NOT SHOWN. ALL OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUBGRADE INFORMATION AND CRITERIA. VERIFY ALL DIMENSIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.

4. PROVISIONS FOR EQUIPMENT
MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, PIPE SLEEVES AND, PENETRATIONS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED FOR, PRIOR TO CASTING CONCRETE.

5. CONSTRUCTION LOADS
STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.

6. DRAINAGE SURFACES
SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL BE 1/4" PER FOOT, EXCEPT WHERE NOTED OTHERWISE ON THE PLANS. AT CONTRACTOR'S OPTION, BOTTOM OF SLAB MAY BE LEVEL AND MAINTAIN A MINIMUM THICKNESS AT FLOOR DRAINS.

B. STRUCTURAL DESIGN DATA

1. GENERAL

A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE WITH KITSAP COUNTY AMENDMENTS AND BY REFERENCE ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

2. DESIGN LOADS

A. DEAD LOAD:
STRUCTURE: ACTUAL
B. LIVE LOAD

SLAB: 250 PSF OR HS-30 WHICHEVER IS GREATER.

C. EARTHQUAKE DESIGN DATA:

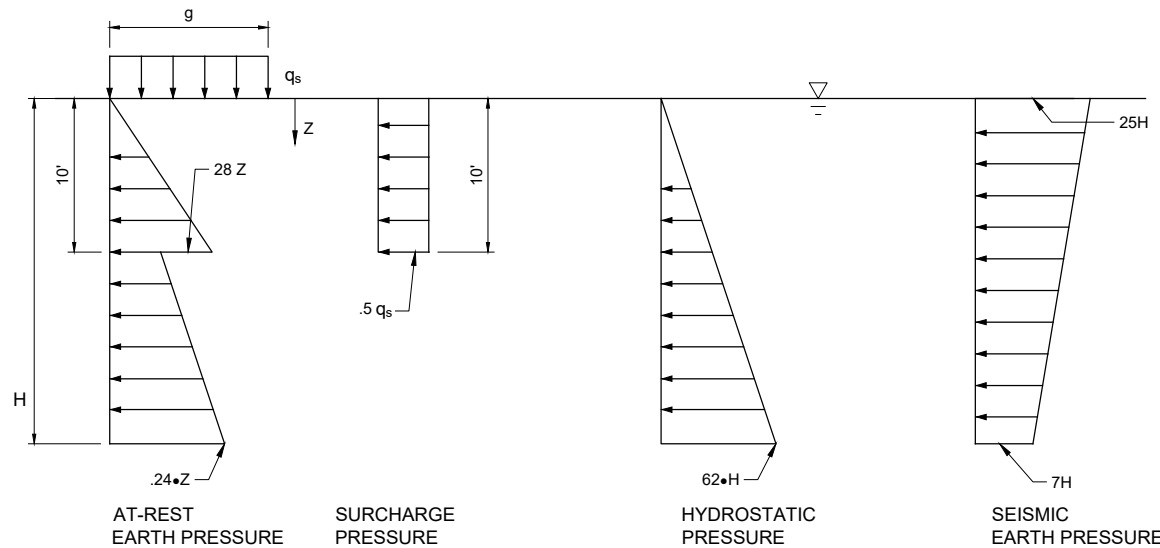
SEISMIC IMPORTANCE FACTOR: $I_e = 1.25$
RISK CATEGORY: III
MAPPED SPECTRAL ACCELERATIONS: $S_s = 1.331$ $S_1 = 0.53$
SITE CLASS: C
SPECTRAL RESPONSE COEFFICIENTS: $SDS = 0.88$ $SD1 = 0.46$
SEISMIC DESIGN CATEGORY: D

D. BUOYANCY:

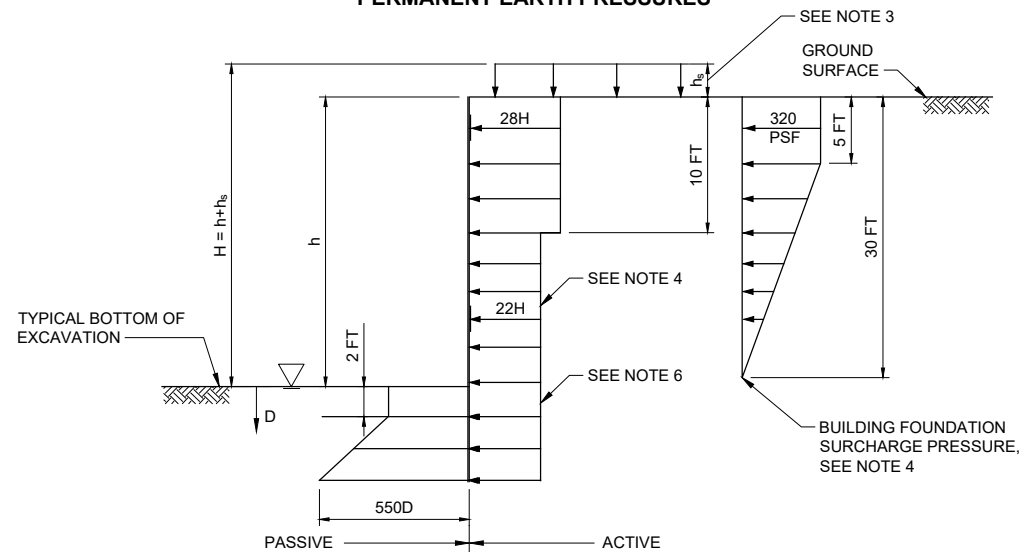
TOP OF GROUND WATER = GROUND SURFACE.
SHORING SYSTEM SHALL BE USED TO RESIST BUOYANCY UPLIFT SOLDIER PILE/SOIL INTERFACE
ALLOWED END BEARING = 16KSF
ALLOWED PILE FRICTION (BELOW EXCAVATION ONLY) = 2.4 KSF

E. SOILS DATA:

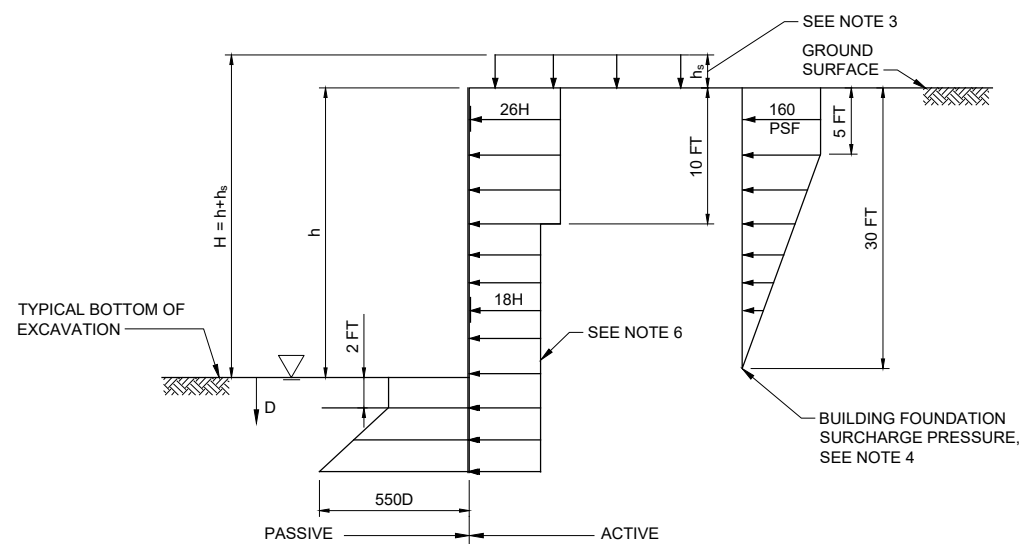
SOILS RECOMMENDATIONS PROVIDED IN "GEOTECHNICAL ENGINEERING REPORT REVISED: KITSAP COUNTY PUMP STATIONS 16 AND 67 UPGRADES" PREPARED BY ASPECT CONSULTING DATED JUNE 7, 2014. SEE LATERAL WALL DESIGN PRESSURE DIAGRAMS BELOW.



PERMANENT EARTH PRESSURES



AT REST EARTH PRESSURES FOR SHORING



ACTIVE EARTH PRESSURES FOR SHORING

SHORING WALL EARTH PRESSURE NOTES:

- USE APPROPRIATE PRESSURE DIAGRAMS FOR THE TYPE OF SHORING SYSTEM CONSIDERED.
- SHORING PRESSURE DIAGRAMS ASSUME FREE DRAINING SHORING WITH NO BUILDUP OF HYDROSTATIC PRESSURE BEHIND WALL. GROUNDWATER LEVEL ASSUMED AT BOTTOM OF EXCAVATION.
- ASSUME AN EQUIVALENT SURCHARGE HEIGHT, H_s , OF TWO FEET ACTING OVER THE TOP 10 FEET OF THE EXCAVATION FOR GENERAL TRAFFIC AND ACCESS LOADING. FOR CONCENTRATED SURCHARGE LOADING FROM CRANES AND HEAVY CONSTRUCTION LOADING, CONTACT THE GEOTECHNICAL ENGINEER FOR RECOMMENDATIONS.
- WHEN AN EXISTING BUILDING FOUNDATION IS WITHIN 20 FEET OF THE SHORING WALL, USE AT REST PRESSURES FOR SHORING AND THE BUILDING SURCHARGE DIAGRAM IN LIEU OF THE H_s SURCHARGE MENTIONED ABOVE.
- ACTIVE AND AT-REST DESIGN PRESSURES SHALL ACT OVER THE FULL SHORING WIDTH ABOVE THE EXCAVATION AND OVER THE DIAMETER OF ANY ELEMENT EMBEDDED BELOW THE EXCAVATION. PASSIVE PRESSURES SHALL ACT OVER THE LESSER OF 3 TIMES THE PILE DIAMETER OR THE CENTER TO CENTER SPACING OF THE PILES. NEGLECT PASSIVE RESISTANCE IN THE FIRST 2 FEET BELOW THE EXCAVATION.
- FOR SHORING LAGGING DESIGN, USE 50% OF EARTH PRESSURES SHOWN IN DIAGRAMS.
- A FACTOR OF SAFETY HAS NOT BEEN APPLIED TO THE EARTH PRESSURES VALUES SHOWN IN THE DIAGRAMS.

C. CONCRETE

- DESIGN STRESSES
 - CAST-IN-PLACE CONCRETE
 - STRUCTURAL CONCRETE: 4000 PSI AT 28 DAYS
 - PLAIN CONCRETE: 3000 PSI AT 28 DAYS
 - REINFORCING STEEL SHALL BE ASTM A615 DEFORMED BARS, GRADE 60. WELDED WIRE FABRIC SHALL BE ASTM A185 SMOOTH WIRE - $f_y = 60$ KSI MINIMUM.
- BAR SPLICES
SPLICES OF REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND SHALL BE CLASS B, UNLESS OTHERWISE NOTED. THE LENGTH OF LAP SPlice OF BARS OF DIFFERENT DIAMETER SHALL BE BASED ON THE SMALLER DIAMETER.
- STANDARD HOOKS
BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE.
- SLOPING SLABS
MONOLITHIC SLABS WITH TOPS THAT ARE SLOPED SHALL HAVE BOTTOMS SLOPED THE SAME AMOUNT, MAINTAINING A UNIFORM SLAB THICKNESS, UNLESS OTHERWISE NOTED.
- CHAMFERS
EXCEPT AS OTHERWISE NOTED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS. RE-ENTRANT CORNERS SHALL NOT HAVE FILLETS.
- CONSTRUCTION JOINTS
ENGINEER APPROVAL IS REQUIRED FOR ANY CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS SHALL BE DETAILED AS SHOWN ON THE DRAWINGS.
- ANCHORS
USE RESIN-BONDED ANCHORS U.N.O.

D. NON-SHRINK GROUT

GROUT FOR BASE PLATES, EQUIPMENT ANCHORAGE AND GENERAL PURPOSES SHALL BE APPROVED, NON-SHRINK CEMENTITIOUS GROUT CONTAINING NATURAL AGGREGATES DELIVERED TO THE JOB SITE IN FACTORY PREPACKAGED CONTAINERS REQUIRING ONLY THE ADDITION OF WATER, ASTM C1107 TYPE B OR C.

E. SPECIAL INSPECTION

IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 1701 OF THE IBC, SPECIAL INSPECTIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE FOLLOWING WORK:

- ALL CONCRETE AND REINFORCING: SHALL BE INSPECTED IN ACCORDANCE WITH REQUIREMENTS OF IBC 2012 TABLE 1705.3

F. STRUCTURAL OBSERVATIONS

THE ENGINEER OF RECORD SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY IBC SECTIONS 109, 1704 OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE. STRUCTURAL OBSERVATION REPORTS SHALL BE ISSUED TO THE OWNER, ARCHITECT, CONTRACTOR, AND BUILDING OFFICIAL AT THE SIGNIFICANT CONSTRUCTION STAGES.

G. DEFERRED STRUCTURAL SUBMITTAL

SOME STRUCTURAL SYSTEMS ARE DEFINED AS VENDOR-DESIGNED COMPONENTS PER STRUCTURAL DOCUMENTS. THE ELEMENTS OF DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE STAMPED COMPONENT SYSTEM DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL.

THE FOLLOWING LIST INCLUDES THE ITEMS THAT ARE DEFINED AS DEFERRED STRUCTURAL SUBMITTAL COMPONENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS.

DEFERRED STRUCTURAL SUBMITTAL COMPONENTS:

- SHORING SYSTEM FOR UPLIFT CAPACITY

PLOT DATE & TIME
APR 23 2016 11:00:42

FILE NAME (UPDATED BY)
C:\PWORKING\SEA\00950324\69-P13-10282_S-01.DWG (GOC)
REF: S: Dahl, Disolmer, Kitsap_TB

No.	Revision	Date	By	App'd



Designed: K. Dahl, P.E., S.E.
Scale: NTS
Drawn: S. Olsoe
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

Scale: NTS
One Inch At Full Scale
If Not One Inch Scale Accordingly



Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

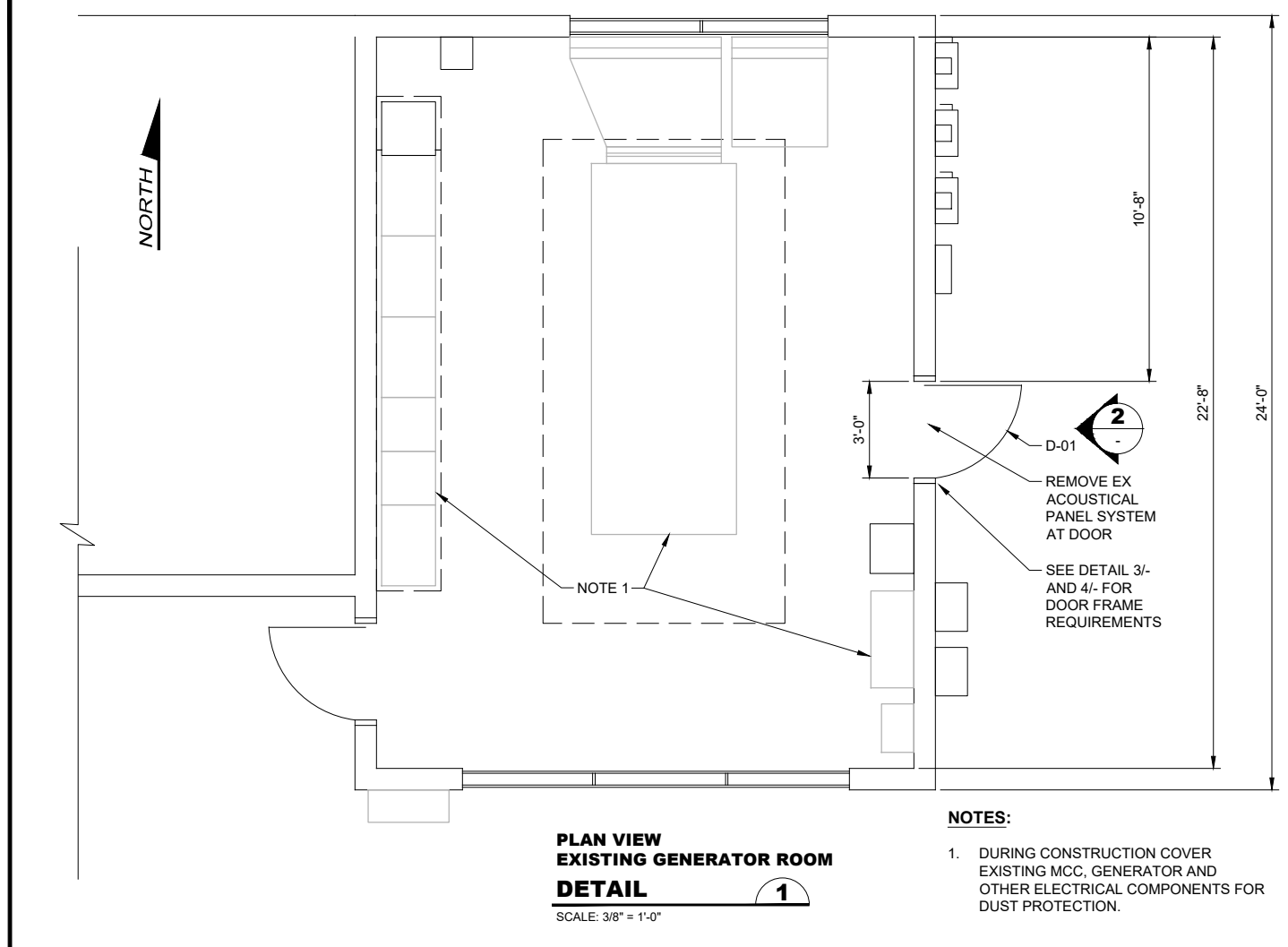
KITSAP COUNTY PS 16/67 UPGRADES
STRUCTURAL GENERAL NOTES

Call 48 Hours Before You Dig
1-800-424-5555
UNDERGROUND SERVICE



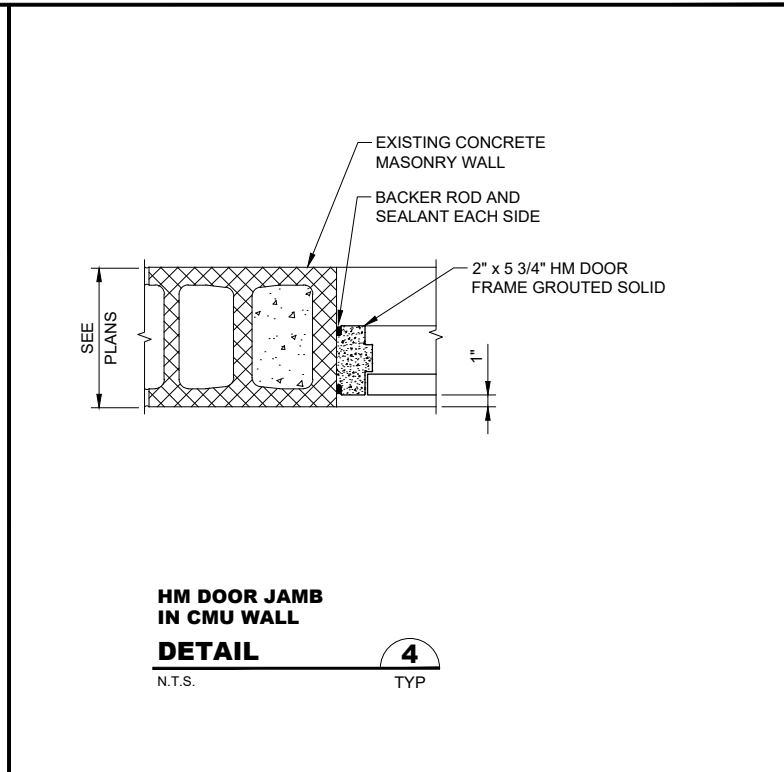
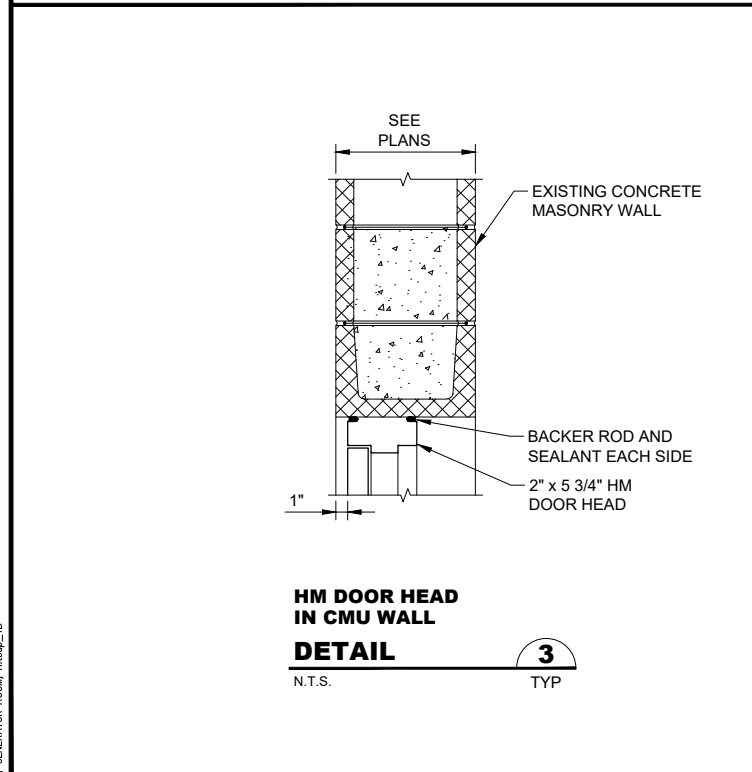
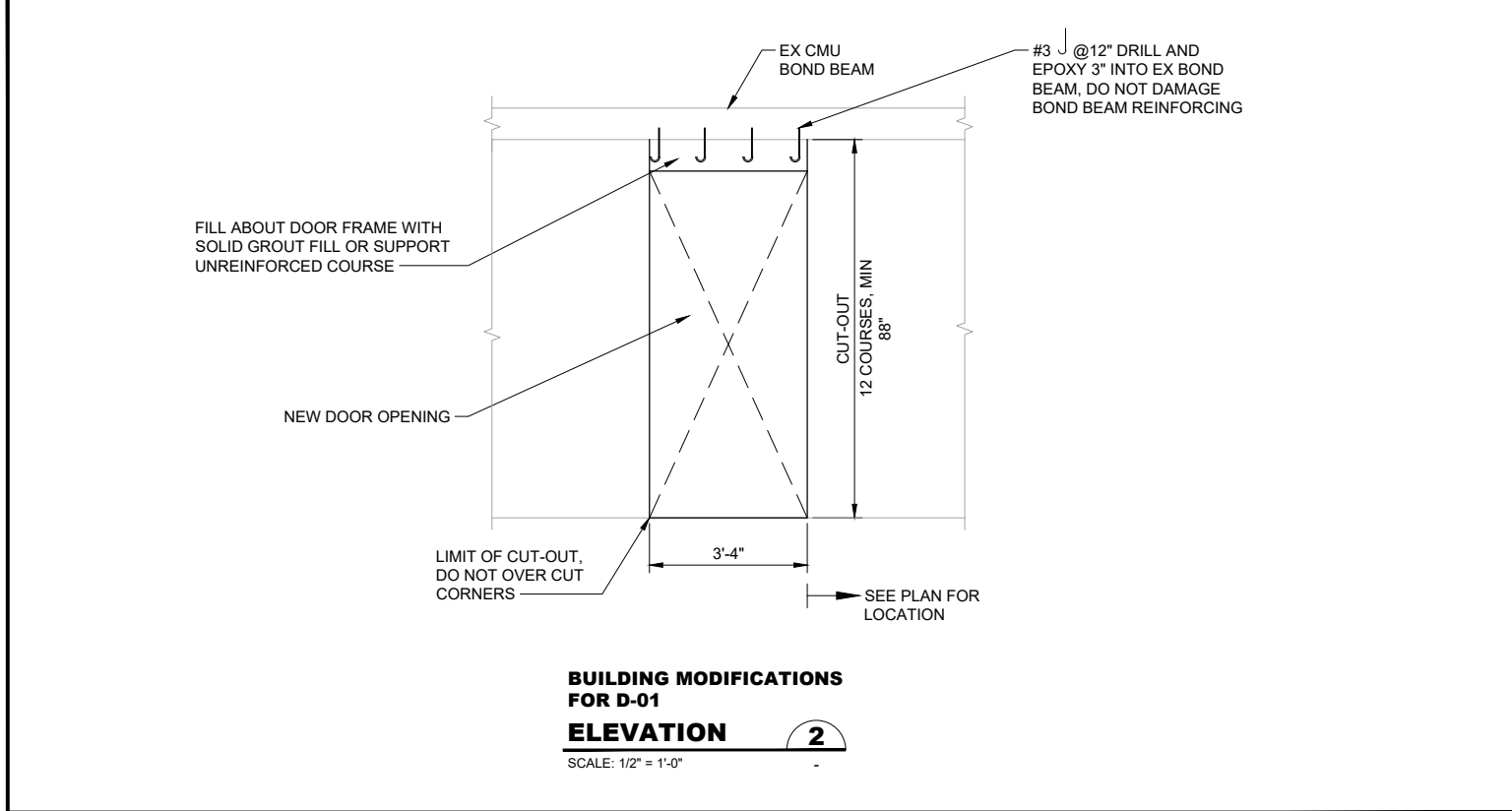
Drawing: **S-01**
Sheet: **69** Of **101**
File: 69-P13-10282_S-01
Date: February 2017

FILE NAME: (UPDATED BY) PLOT DATE & TIME: FEB 03 2015 14:15:51
 C:\P\WORKING\SEA\00960324\70-P13-10282-S-02.DWG (P.L.S)
 DESIGNED BY: B. D. Barile-WA, Dahl, GENERATOR ROOM, Kitsap, IB



NOTES:

- DURING CONSTRUCTION COVER EXISTING MCC, GENERATOR AND OTHER ELECTRICAL COMPONENTS FOR DUST PROTECTION.



RECORD DRAWING

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No.	Revision	Date	By	App'd



Designed: K. Dahl, P.E.
Drawn: P. Simon
Checked: T. Fisher, P.E.
Approved: M. Harper, P.E.

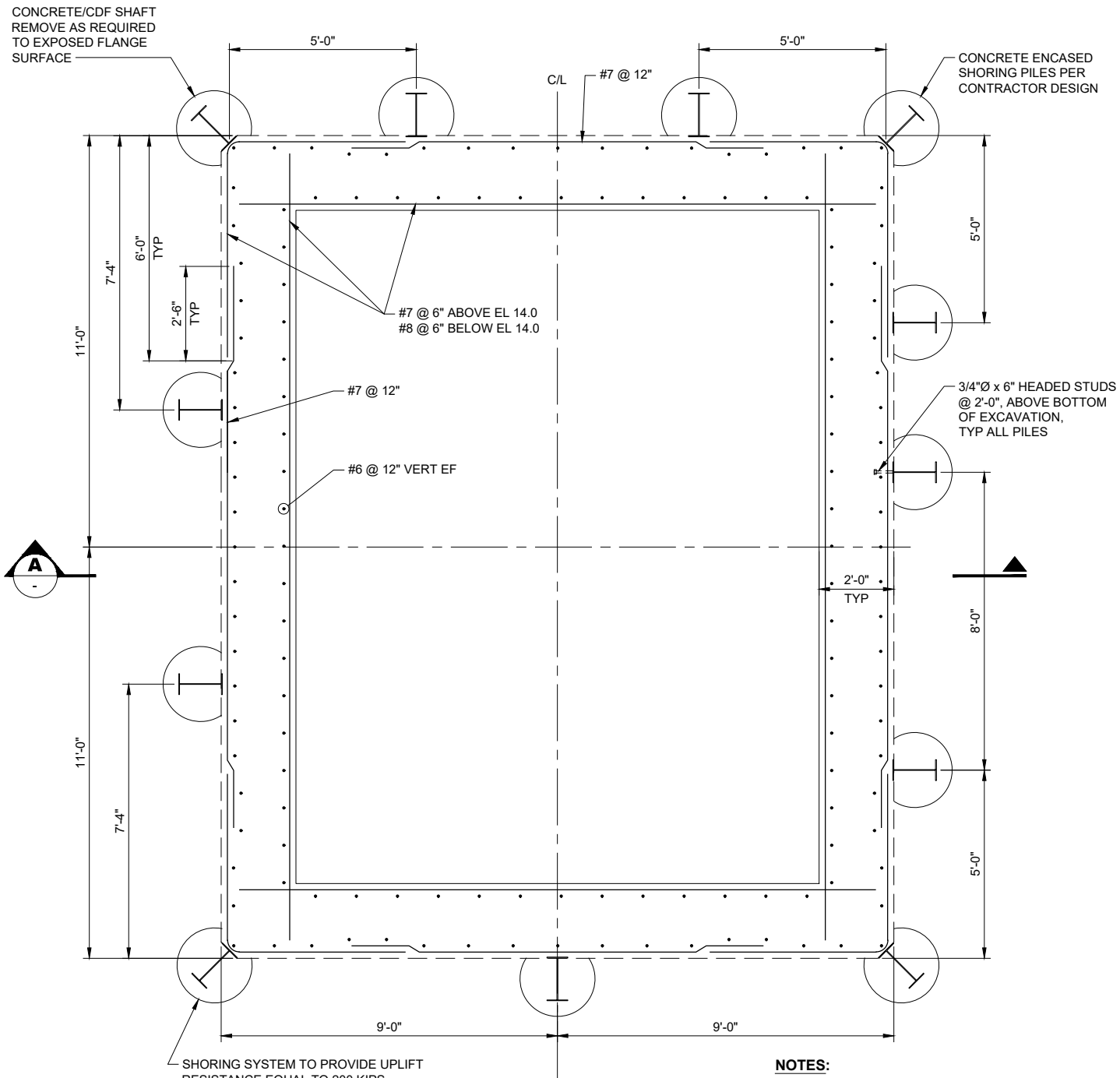
Scale: As Shown
One Inch At Full Scale
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**KITSAP COUNTY PS 16/67 UPGRADES
PS 67 STRUCTURAL DETAILS
GENERATOR ROOM BLDG MODIFICATIONS**

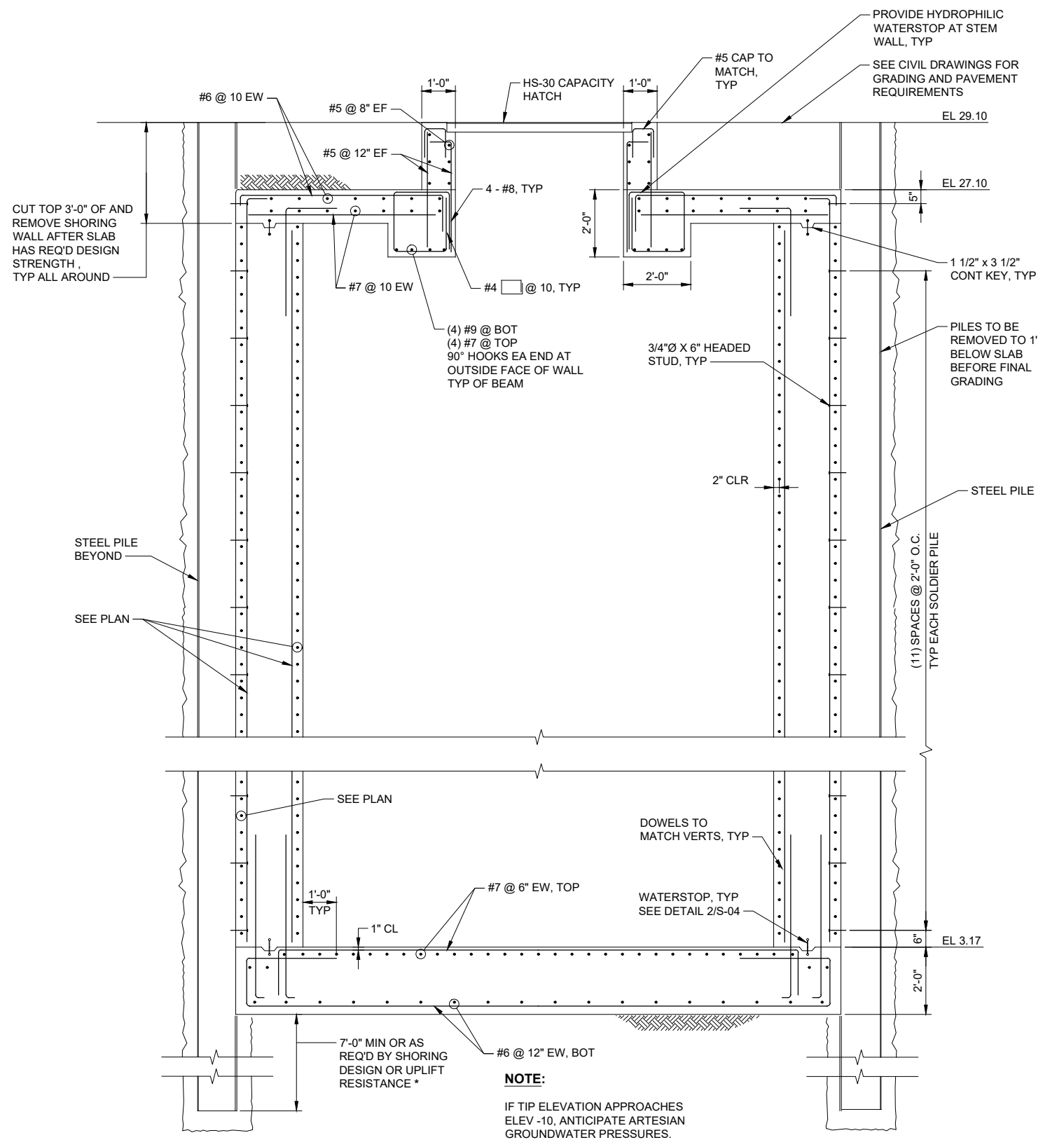
Drawing: **S-02**
Sheet: **70** Of **101**
File: 70-P13-10282_S-02
Date: February 2017

NORTH



AT BASE PLAN
SCALE: 1/2" = 1'-0"

- NOTES:**
- SHORING PILE LAYOUT IS A SUGGESTED LAYOUT ONLY. CONTRACTOR TO PROVIDE SYSTEM THAT ADEQUATELY SUPPORTS SOIL, PROVIDES BUOYANCY UPLIFT RESISTANCE, AND AVOIDS INCOMING PIPES.



* 7'-0" MIN ASSUMES INTERNAL BRACING LOWEST ELEVATION TO BE A MAXIMUM 5'-0" ABOVE BASE OF EXCAVATION.

SECTION
SCALE: 1/2" = 1'-0"

RECORD DRAWING

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UNDERGROUND SERVICE

FILE NAME: (UPDATED BY) APR 23 2016 11:07:10
C:\P\WORKING\SEA\00650324\71-P13-10282-S-03.DWG (COC)
XREFS: Dahl, Disolamer, Kitsap_TB

No.	Revision	Date	By	App'd

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Designed: K. Dahl, P.E.
Drawn: M. Caldwell
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

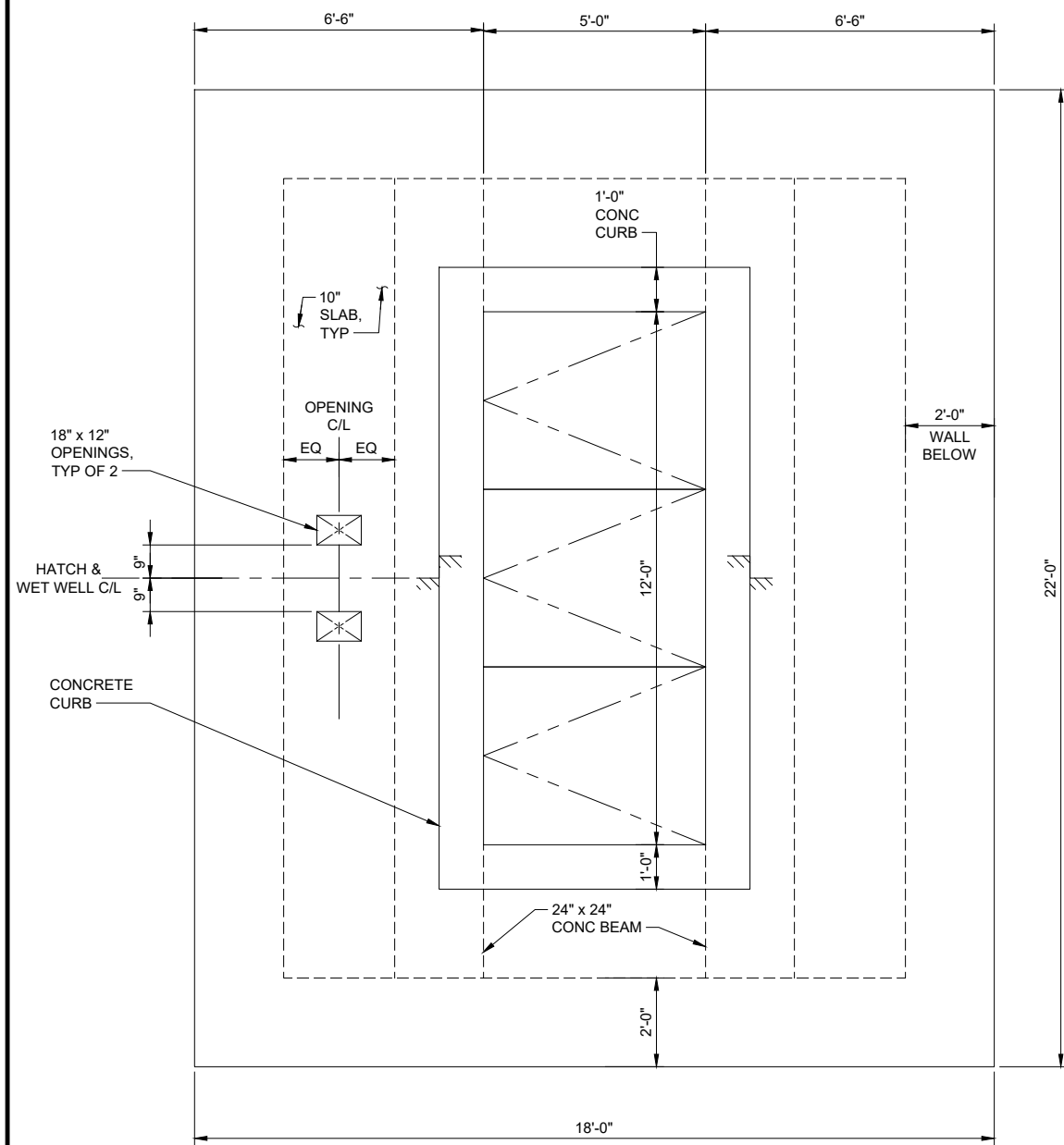
Scale: As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly

KITSAP COUNTY
18 57
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Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
PUMP STATION 67 WET WELL
PLAN AND SECTION

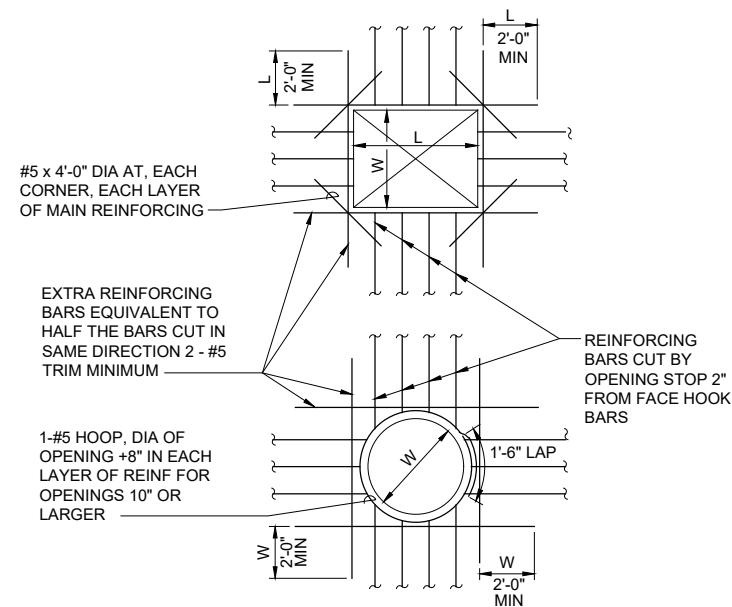
Drawing: **S-03**
Sheet: **71** Of **101**
File: 71-P13-10282_S-03
Date: February 2017

FILE NAME (UPDATED BY) APR 23 2015 11:11:01
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 XREFS: Dorn, Disolamer, Kitsap_TB



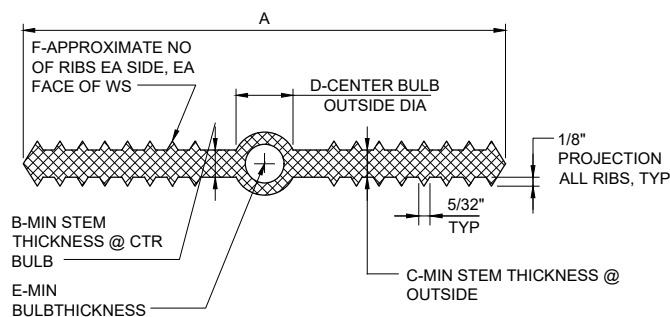
TOP SLAB FRAMING PLAN
SCALE: 1/2" = 1'-0"

- NOTES:**
- SHORING WALL SYSTEM ELEMENTS NOT SHOWN FOR CLARITY.



TYPICAL REINFORCING AT WALL AND SLAB OPENING DETAIL
 N.T.S. TYP

- NOTES:**
- REINFORCEMENT IN OTHER DIRECTION SHALL BE TREATED IN A SIMILAR MANNER.
 - "W" AND "L" = DIMENSION OF OPENING. FOR CIRCULAR OPENINGS "W" = DIAMETER.
 - OMIT ADDED REINFORCING WHEN SPECIAL REINFORCING INDICATED ON PLANS OR DETAILS EXCEED REINFORCING SHOWN HERE.
 - SUPPLEMENTARY BARS MAY BE OMITTED ONLY WHERE OPENING IS FRAMED BY BEAMS.
 - OPENING DETAILS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE.
 - SEE MECHANICAL DRAWINGS FOR SLAB AND WALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.



SIZE	A	B	C	D	E	F
6" x 3/8"	6"	3/8"	3/8"	7/8"	1/4"	6
9" x 3/8"	9"	3/8"	3/8"	1"	1/4"	8

TYPICAL PLASTIC WATERSTOP DETAIL
 N.T.S. TYP

- NOTES:**
- PROVIDE AT ALL VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED.
 - PREFABRICATE ALL INTERSECTIONS. FIELD BUTT-WELD STRAIGHT JOINTS.
 - MITER ALL FLAT JOINTS 45° AT INTERSECTIONS.
 - ALL SPLICES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFICATIONS.
 - PROVIDE 6-INCH WATERSTOPS IN CONSTRUCTION AND CONTROL JOINTS WHERE REQUIRED. PROVIDE 9-INCH WATERSTOP IN ALL EXPANSION JOINTS UNLESS NOTED OTHERWISE.
 - FURNISH DIMENSION REQUIREMENTS TO SUPPLIERS PRIOR TO PLACING ORDERS.

RECORD DRAWING

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Designed: T. Fisher, P.E.
 Drawn: M. Caldwell
 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.

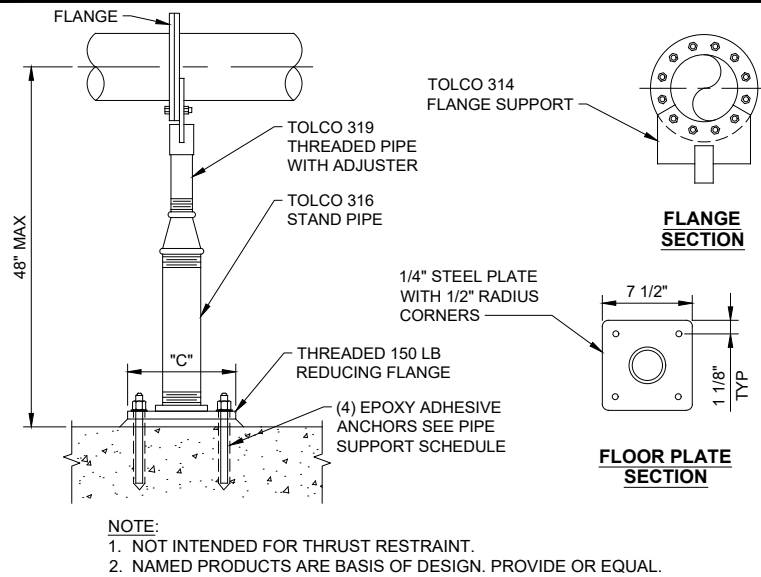
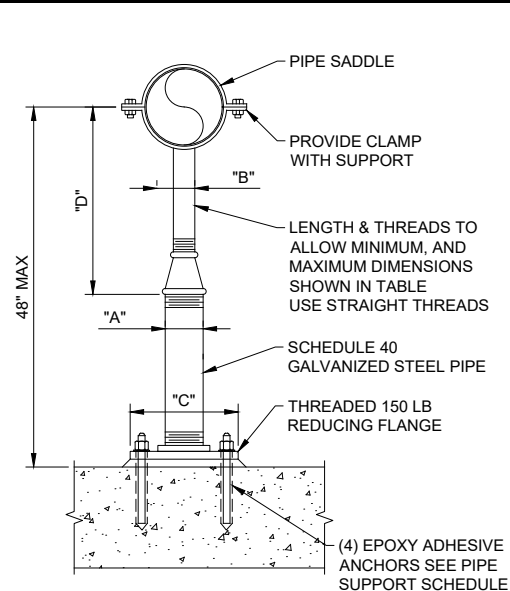
Scale: As Shown
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



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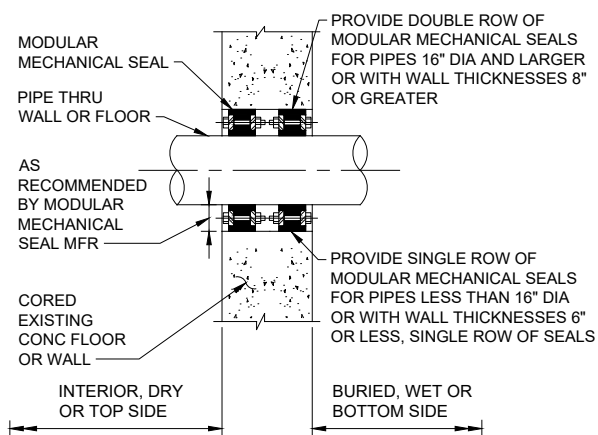
KITSAP COUNTY PS 16/67 UPGRADES
PUMP STATION 67 WET WELL
TOP SLAB FRAMING PLAN AND DETAILS

Drawing: **S-04**
 Sheet: **72** Of **101**
 File: 72-P13-10282_S-04
 Date: February 2017

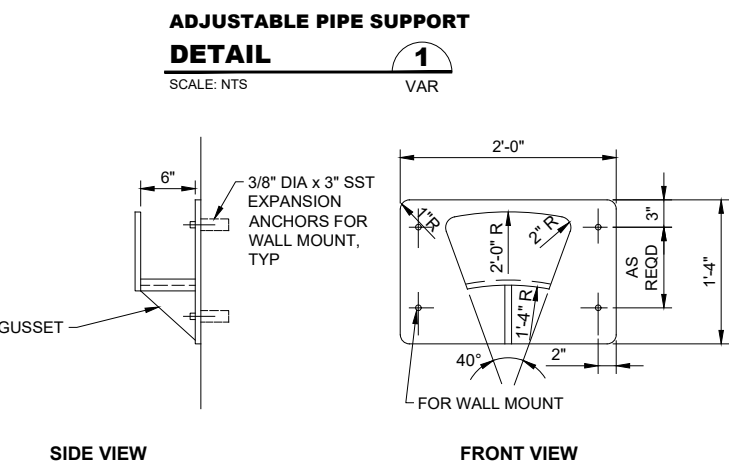


**FLANGED PIPE SUPPORT
DETAIL 2**
SCALE: NTS VAR

PIPE SIZE	PIPE SUPPORT SCHEDULE DIMENSIONS IN INCHES			"D"		"E"
	"A"	"B"	"C"	MAXIMUM	DIA	
< 2 1/2	2 1/2	1 1/2	9	13	5/8	5
3	2 1/2	1 1/2	9	13 1/2	5/8	5
3 1/2	2 1/2	1 1/2	9	13 1/2	5/8	5
4	3	2 1/2	9	14	5/8	5
6	3	2 1/2	9	15 1/2	5/8	5
8	3	2 1/2	9	15 1/2	5/8	5
10	3	2 1/2	9	18 1/2	5/8	5
12	3	2 1/2	9	19 1/2	5/8	5
14	4	3	11	20 1/2	3/4	6 5/8
16	4	3	11	22 1/2	3/4	6 5/8

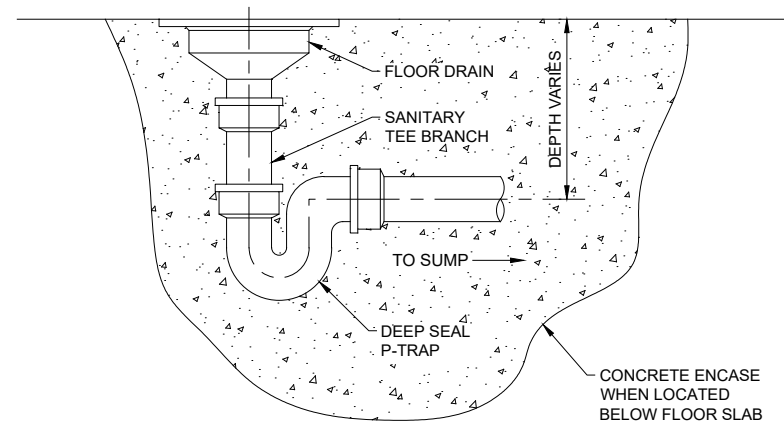


**PIPE PENETRATION W/
MODULAR MECHANICAL SEAL
DETAIL 5**
SCALE: NTS VAR

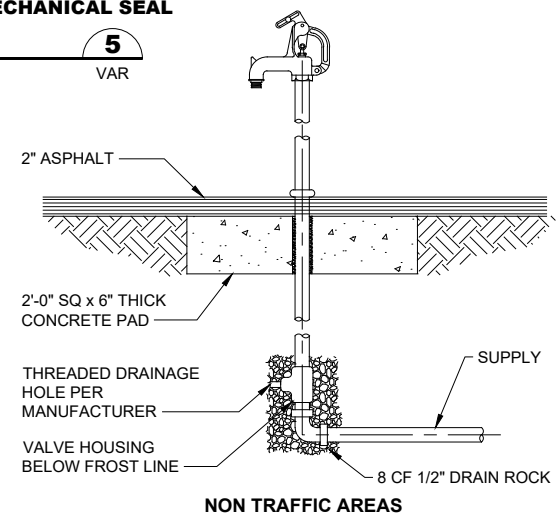


NOTE:
1. FABRICATE FROM 3/16" 316 SST PL W/ WELDED JOINTS.

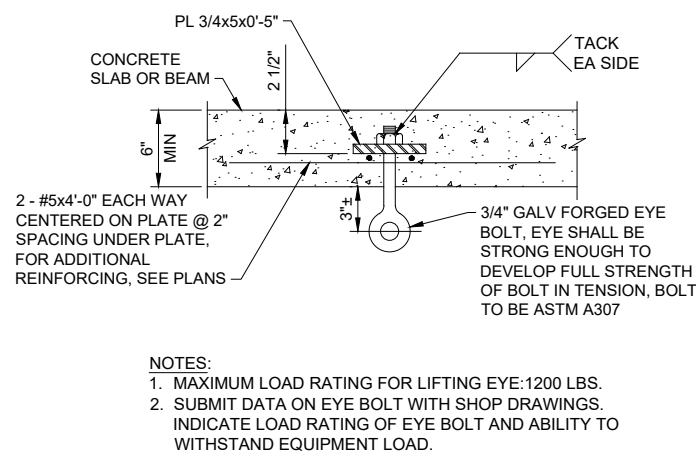
**WALL MOUNTED
HOSE RACK
DETAIL 7**
SCALE: NTS VAR



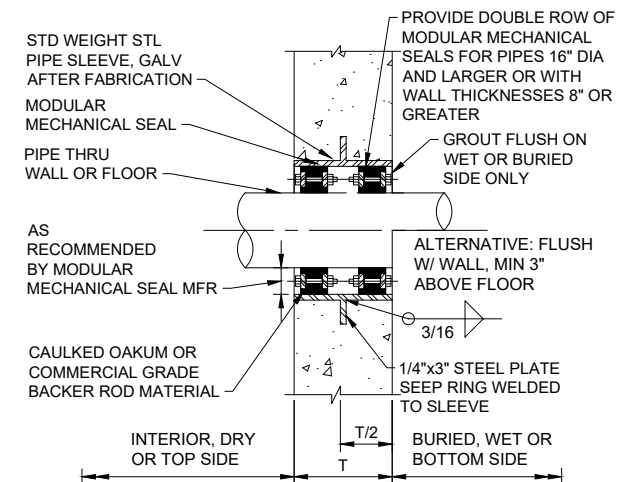
**FLOOR DRAIN W/
P-TRAP
DETAIL 6**
SCALE: NTS VAR
NOTES:
1. TO BE INSTALLED IN PRECAST VAULT DRAINS.



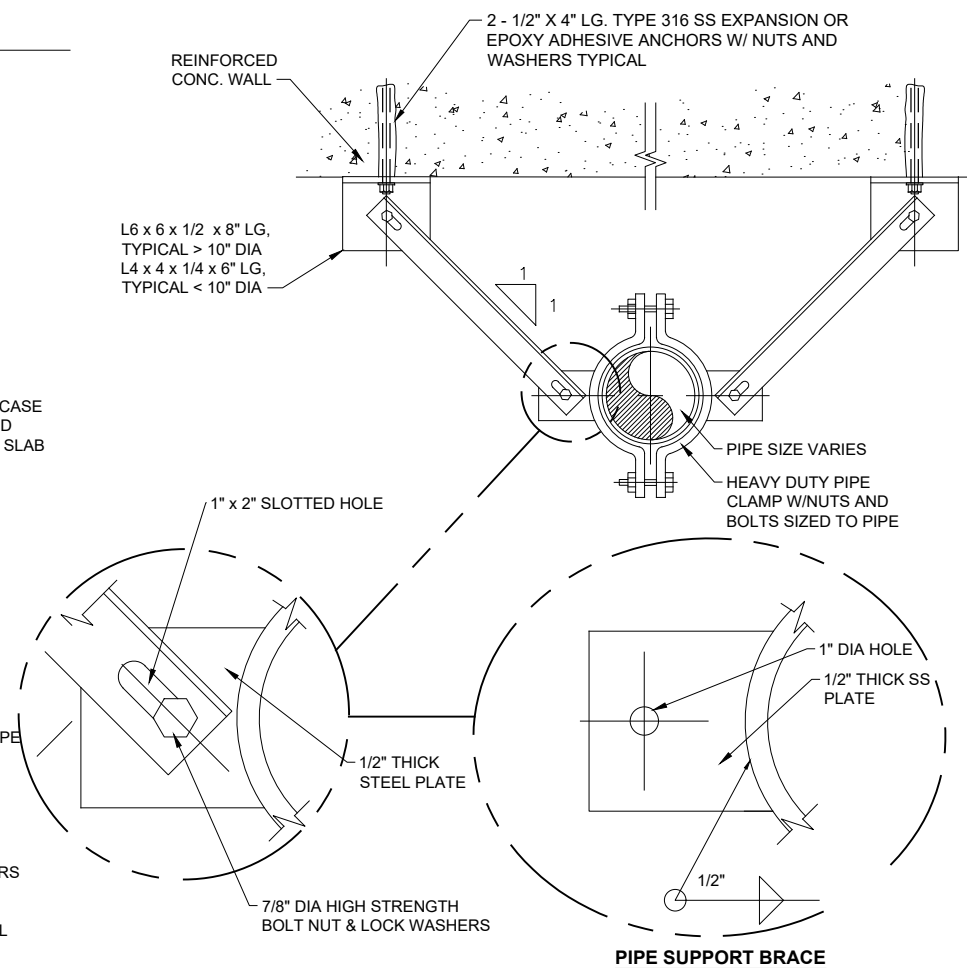
**YARD HYDRANT
DETAIL 8**
SCALE: NTS VAR



**LIFTING EYE
DETAIL 3**
SCALE: NTS VAR



**PIPE SLEEVE W/
MODULAR MECHANICAL SEAL
DETAIL 4**
SCALE: NTS VAR



NOTES:
1. ALL MATERIALS AND ANCILLARY MOUNTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
2. CONTRACTOR SHALL FIELD VERIFY DISTANCE BETWEEN PIPE AND STRUCTURE.
3. REMOVE ALL BURRS, SHARP CORNERS AND WELD SPLATTER.
4. GRIND WELDS SMOOTH. REMOVE ALL DIRT, OIL AND GREASE.
5. INSTALL ONE ANGLED PIPE SUPPORT PER PUMP DISCHARGE PIPE AT THE FOLLOWING ELEVATIONS:
P-001: 19.00'
P-002: 18.00'
P-003: 17.00'

**ANGULAR PIPE SUPPORT
DETAIL 9**
SCALE: NTS VAR

RECORD DRAWING

Call 48 Hours Before You Dig
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FILE NAME: (UPDATED BY) PLOT DATE & TIME: APR 09 2013 09:13:40
S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01R_PP-SU.DWG (R.S.)
XREFS: 12-10237-01R_PP-SU.DWG, 12-10237-01R_PP-SU.DWG, 12-10237-01R_PP-SU.DWG, 12-10237-01R_PP-SU.DWG, 12-10237-01R_PP-SU.DWG

No.	Revision	Date	By	App'd

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Checked: J. KOCH, P.E.
Approved: B. BARTLE, P.E.
Scale: NONE
One Inch at Full Scale
If Not One Inch Scale Accordingly

KITSAP COUNTY
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

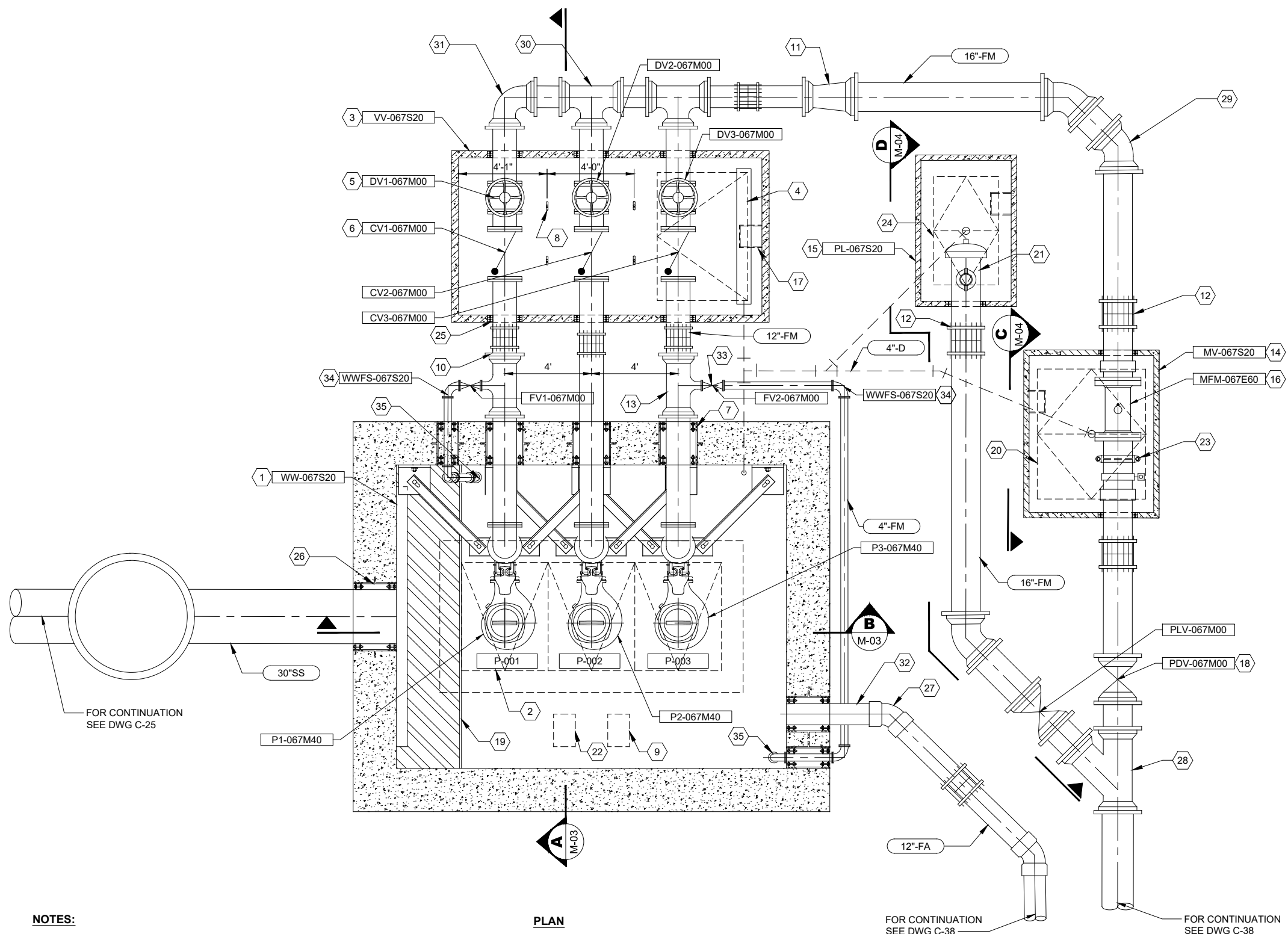
KITSAP COUNTY PS 16/67 UPGRADES
MECHANICAL STANDARD DETAILS

Drawing: **M-01**
Sheet: **73** Of **101**
File: 73-P13-10282_M-01
Date: February 2017



PUMP STATION COMPONENTS

- 1 WET WELL, 14'x18' INSIDE DIMENSION.
- 2 ACHCH 1.
- 3 PRECAST VALVE VAULT.
- 4 ACHCH 2.
- 5 12" GATE VALVE, TYP OF 3.
- 6 12" CHECK VALVE, TYP OF 3.
- 7 PIPE SLEEVE W/ MODULAR MECHANICAL SEAL, TYP OF 6, SEE DETAIL 4/M-01.
- 8 LIFTING EYE SEE DETAIL 3/M-01, TYP OF 4.
- 9 LE-001, SEE DETAIL 1/Y03.
- 10 12" FLEXIBLE COUPLING, TYP OF 5.
- 11 16"x12" DI REDUCER, R.J.
- 12 16" FLEXIBLE COUPLING, TYP OF 3.
- 13 4" X 12" DI RJ TEE, TYP OF 2.
- 14 PRECAST FLOW METER VAULT.
- 15 PRECAST PIG LAUNCH VAULT.
- 16 FE-001. PROVIDE SPOOL (FL x FL) MATCHING FE-001 LAY LENGTH.
- 17 GALVANIZED STEEL ACCESS LADDER, TYP OF 3, SEE DETAIL 1/M-05.
- 18 16" GATE VALVE W/ VALVE BOX, TYP OF 2.
- 19 STAINLESS STEEL BAFFLE PLATE, SEE DETAIL 1/M-04.
- 20 ACHCH 3
- 21 SALVAGED STEEL PIG LAUNCH (18" OD) WITH 6" GATE VALVE AND 6" SST FEMALE CAMLOCK. SEE D-01.
- 22 LSM/LSM/LSH-001 SEE DETAIL 3 Y-03
- 23 16" GROOVED COUPLING.
- 24 ACHCH 4.
- 25 PIPE PENETRATION W/ MODULAR MECHANICAL SEAL, TYP OF 9, SEE DETAIL 5/M-01.
- 26 SIMILAR TO PIPE SLEEVE W/ MODULAR MECHANICAL SEAL DETAIL 4/M-01. USE HOLE FORMING DISKS INSTEAD OF PIPE SLEEVE.
- 27 12" PVC 45° BEND, TYP OF 2.
- 28 16" DI RJ WYE.
- 29 16" DI RJ 45° BEND, TYP OF 3.
- 30 12" DI RJ TEE, TYP OF 2.
- 31 12" DI RJ 90° BEND.
- 32 12" FA IE 24.0'
- 33 4" GATE VALVE W/ VALVE BOX, TYP OF 2.
- 34 4" DI RJ 90° BEND, TYP OF 3.
- 35 EXTEND 4" TO EL 6.0 AND PROVIDE A 45° BEND (FL x PE) AT BOTTOM. ROTATE BEND AS DIRECTED BY FIELD INSPECTOR, TYP OF 2.



NOTES:
 1. ALL BURIED DUCTILE IRON PIPE TO BE RESTRAINED JOINT.

**PUMP STATION 67
 DETAIL 1**
 3/8" = 1'-0"

FILE NAME (UPDATED BY) S:\CAD\KITSAP COUNTY\12-10237-01 PIPE DESIGN\DWG\PS12-10237-01FL_PP-SU.DWG (R.S.)
 APR 09 2013 07:13:40
 XREFS: X12-10237-01FL_PP-Prep_Silverdale, X12-10237-01FL_Ex_Top_Silverdale, X12-10237-01FL_Ex_Top_Silverdale, X12-10237-01FL_Ex_Top_Silverdale, X12-10237-01FL_IB

No.	Revision	Date	By	App'd

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 Drawn: P. WILHELM
 Checked: J. KOCH, P.E.
 Approved: B. BARTLE, P.E.
 Scale: 3/8" = 1'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
**PS 67 MECHANICAL WET WELL/
 VALVE VAULT PLAN**

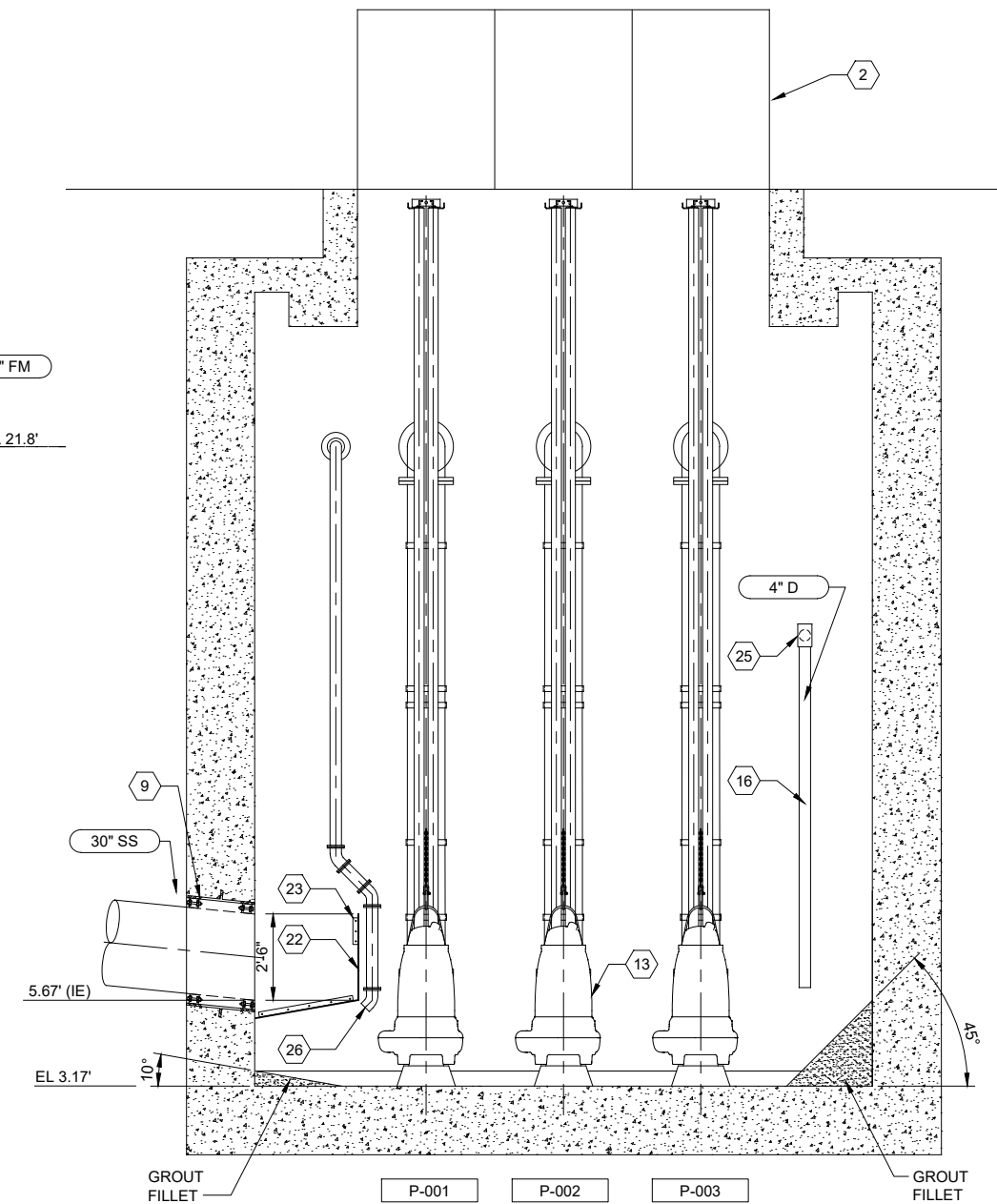
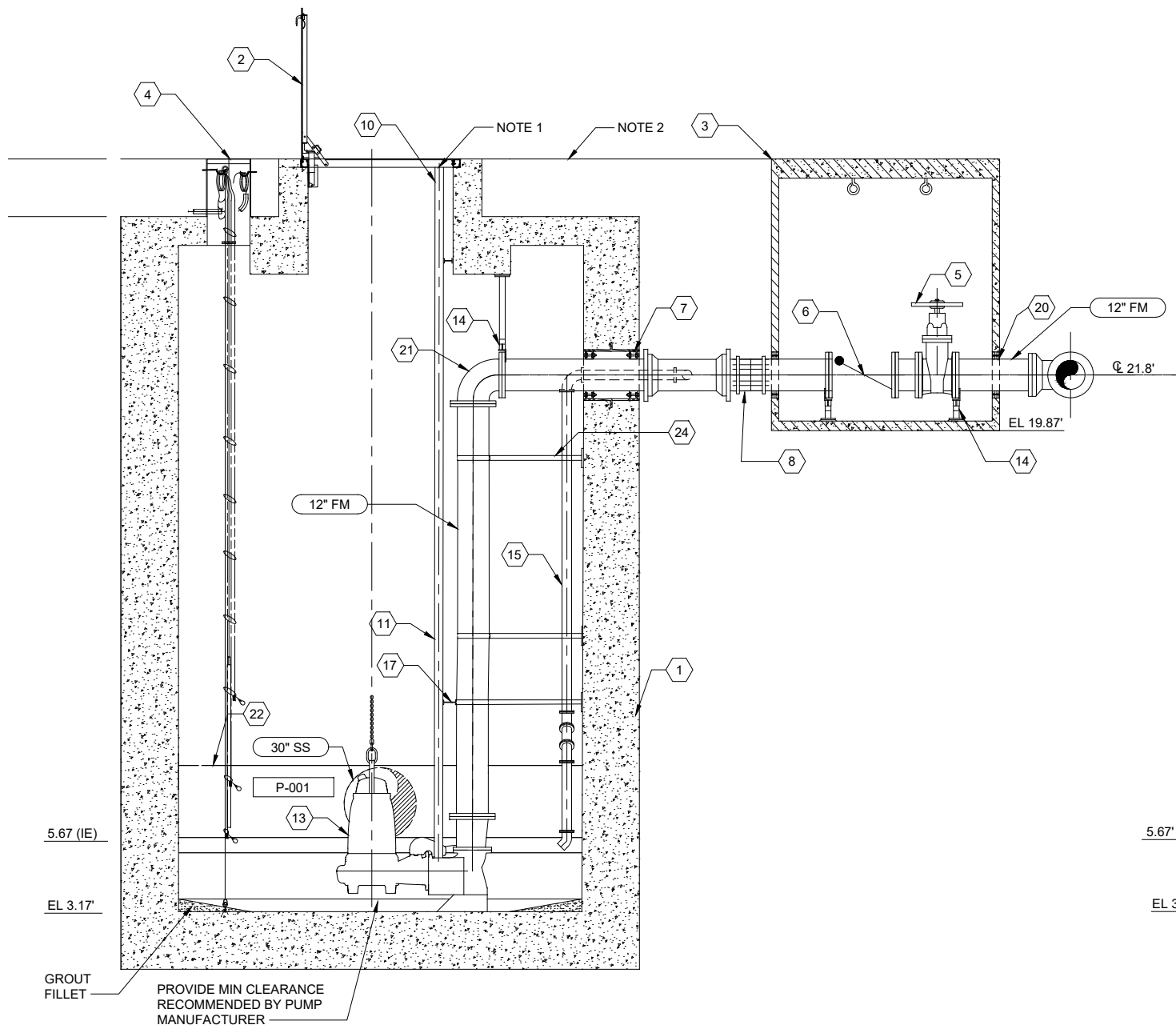
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Drawing: **M-02**
 Sheet: **74** Of **101**
 File: 74-P13-10282_M-02
 Date: February 2017



PUMP STATION COMPONENTS

- 1 WET WELL, 14'x18' DIA INSIDE DIMENSION.
- 2 ACHCH 1.
- 3 PRECAST VALVE VAULT.
- 4 LSM/LSM/LSM-001. SEE DETAIL 3/Y-03.
- 5 12" GATE VALVE.
- 6 12" CHECK VALVE.
- 7 PIPE SLEEVE W/ MODULAR MECHANICAL SEAL, SEE DETAIL 4/M-01.
- 8 12" FLEXIBLE COUPLING.
- 9 SIMILAR TO PIPE SLEEVE W/ MODULAR MECHANICAL SEAL DETAIL 4/M-01. USE HOLE FORMING DISKS INSTEAD OF PIPE SLEEVE.
- 10 SST UPPER GUIDE BAR BRACKET.
- 11 SST GUIDE RAIL SYSTEM, SIZE PER MANUFACTURER'S RECOMMENDATION.
- 12 NOT USED.
- 13 SUBMERSIBLE PUMP, TYP OF 3.
- 14 SST FLANGED PIPE SUPPORT, SEE DETAIL 2/M-01.
- 15 4"Ø DI FLUSHING LINE.
- 16 DRAIN TERMINATE AT EL. 4.0 USE PIPE SUPPORT EVERY 10'.
- 17 SST INTERMEDIATE GUIDE RAIL BRACKET.
- 18 NOT USED.
- 19 NOT USED.
- 20 PIPE PENETRATION W/ MODULAR MECHANICAL SEAL, TYP, SEE DETAIL 5/M-01.
- 21 12" DI FL x FL 90° BEND, TYP.
- 22 1/2" THICK STAINLESS STEEL BAFFLE PLATE. SEE DETAIL 1/M-04.
- 23 14 LF L4x4x1/2 BAFFLE WALL SUPPORT SEE DETAIL 1/M-04 (TYP OF 4)
- 24 ANGULAR PIPE SUPPORT. SEE DETAIL 9/M-01. (TYP OF 3)
- 25 4" PVC TEE
- 26 EXTEND 4" TO EL. 6.0 AND PROVIDE A 45° BEND (FL x PE) AT BOTTOM. ROTATE BEND AS DIRECTED BY FIELD INSPECTOR, TYP OF 2.

**WET WELL AND VALVE VAULT
PUMP STATION 67****SECTION A**

3/8" = 1'-0"

M-02

**FLOW METER VAULT
PUMP STATION 67****SECTION B**

3/8" = 1'-0"

M-02

NOTES:

- 1 ATTACH PUMP GUIDE RAIL PER MANUFACTURER'S RECOMMENDATION.
- 2 SEE ELEVATIONS ON STRUCTURAL DRAWINGS.

FILE NAME: (UPDATED BY) PLOT DATE & TIME: APR 09 2013 07:15:40
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Designed: K. JACOBSON
 Drawn: P. WILHELM
 Checked: J. KOCH, P.E.
 Approved: B. BARTLE, P.E.

Scale:
 3/8" = 1'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



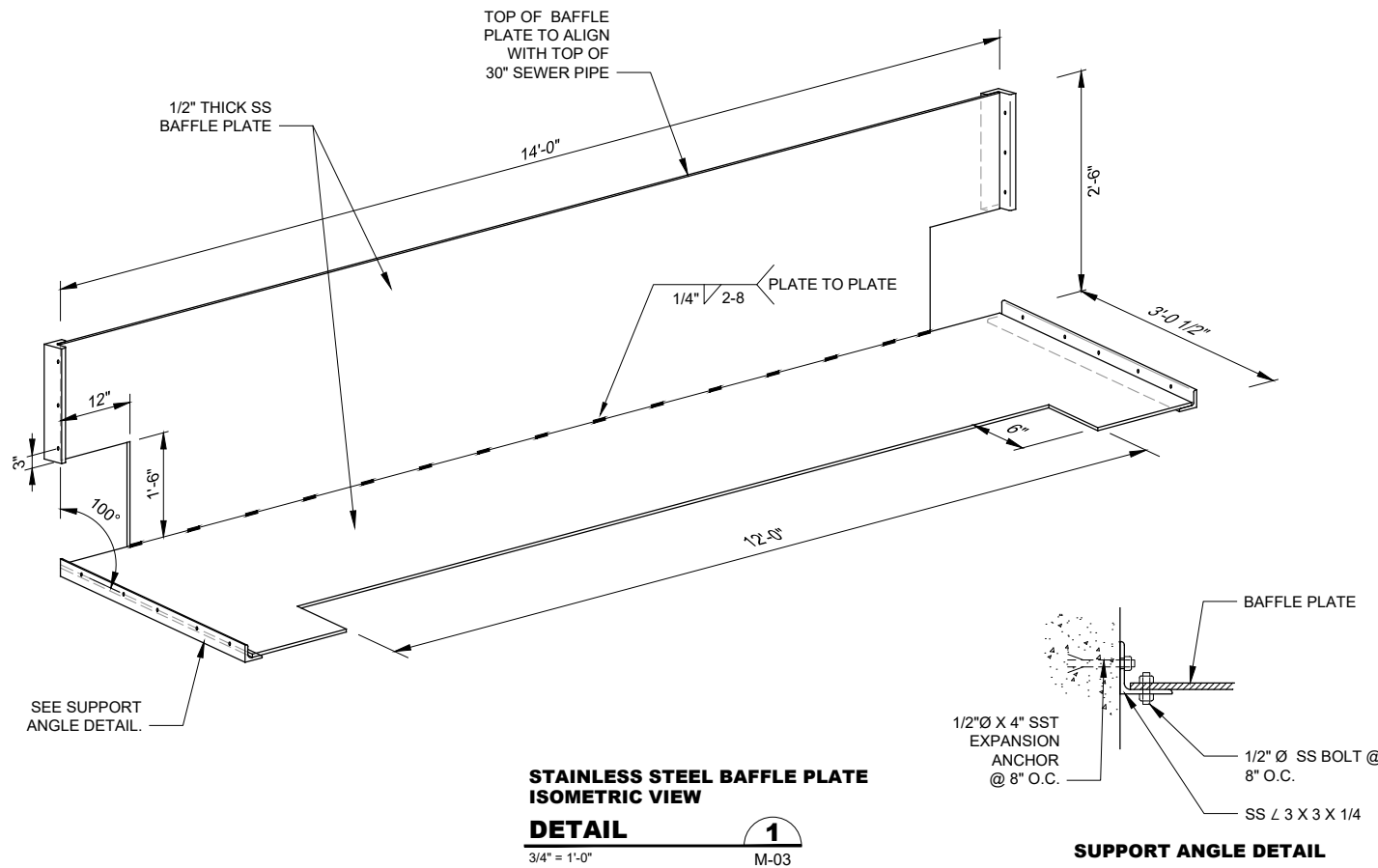
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KITSAP COUNTY PS 16/67 UPGRADES**PS 67 MECHANICAL
WET WELL SECTIONS**

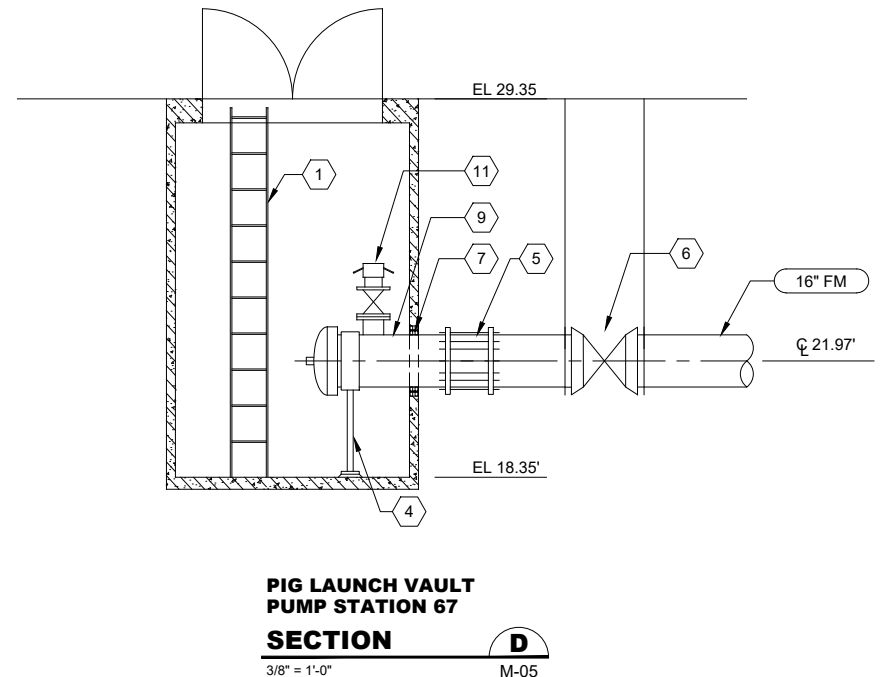
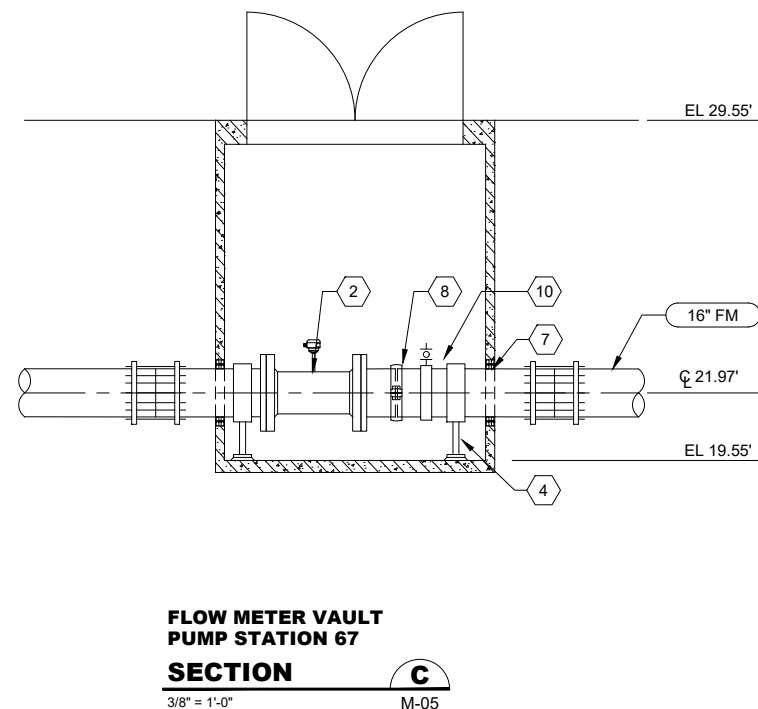
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Drawing: **M-03**
 Sheet: **75** Of **101**
 File: 75-P13-10282_M-03
 Date: February 2017



- PUMP STATION COMPONENTS**
- 1 ACCESS LADDER, TYP OF 3, SEE DETAIL 1/M-05.
 - 2 PROVIDE SPOOL (FL X FL) MATCHING FE-001 LAY LENGTH
 - 3 NOT USED.
 - 4 ADJUSTABLE PIPE SUPPORT, SEE DETAIL 1/M-01, TYP.
 - 5 16" FLEXIBLE COUPLING, TYP.
 - 6 16" GATE VALVE WITH VALVE BOX.
 - 7 PIPE PENETRATION WITH MODULAR MECHANICAL SEAL, TYP. SEE DETAIL 5/M01.
 - 8 16" GROOVED COUPLING.
 - 9 SALVAGED STEEL PIG LAUNCH (18"OD). SEE D-01
 - 10 PI-001 SST DOUBLE SADDLE TAP WITH 3/4" BALL VALVE AND BRASS NIPPLE
 - 11 6" GV AND 6" SST FEMALE CAMLOCK FITTING



RECORD DRAWING

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FILE NAME (UPDATED BY) MAR 04 2014 14:42:23
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Scale:
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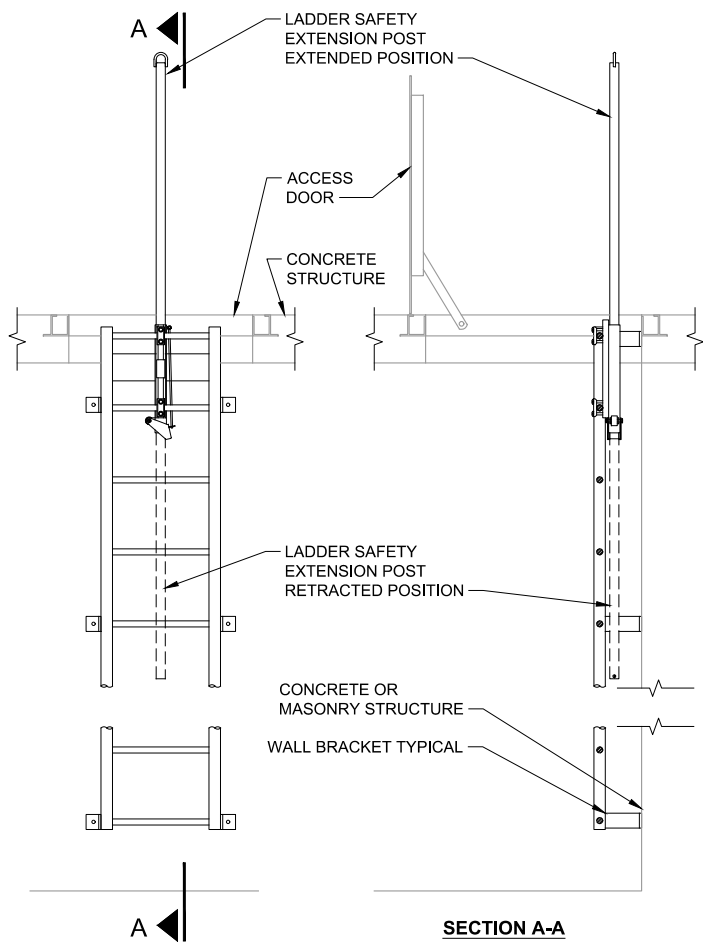
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KITSAP COUNTY PS 16/67 UPGRADES

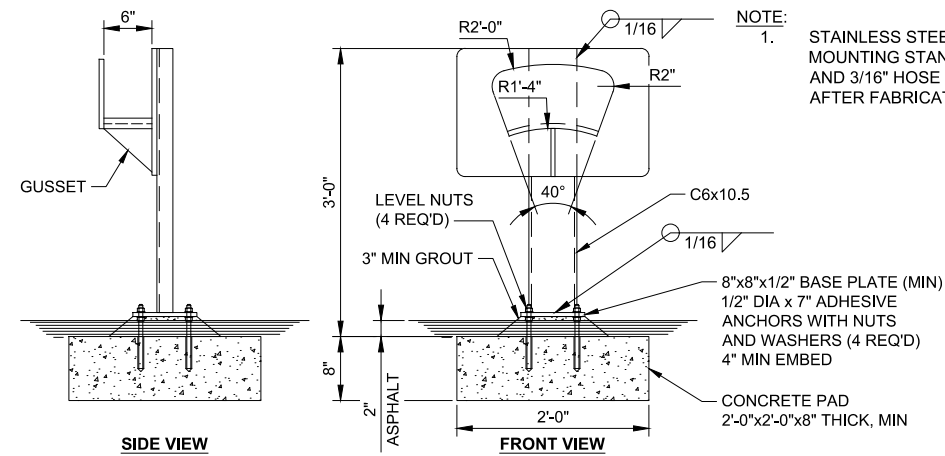
PS 67 MECHANICAL VALVE VAULT SECTIONS

Drawing: **M-04**
Sheet: **76** Of **101**
File: 76-P13-10282_M-04
Date: February 2017

FILE NAME (UPDATED BY) PLOT DATE & TIME
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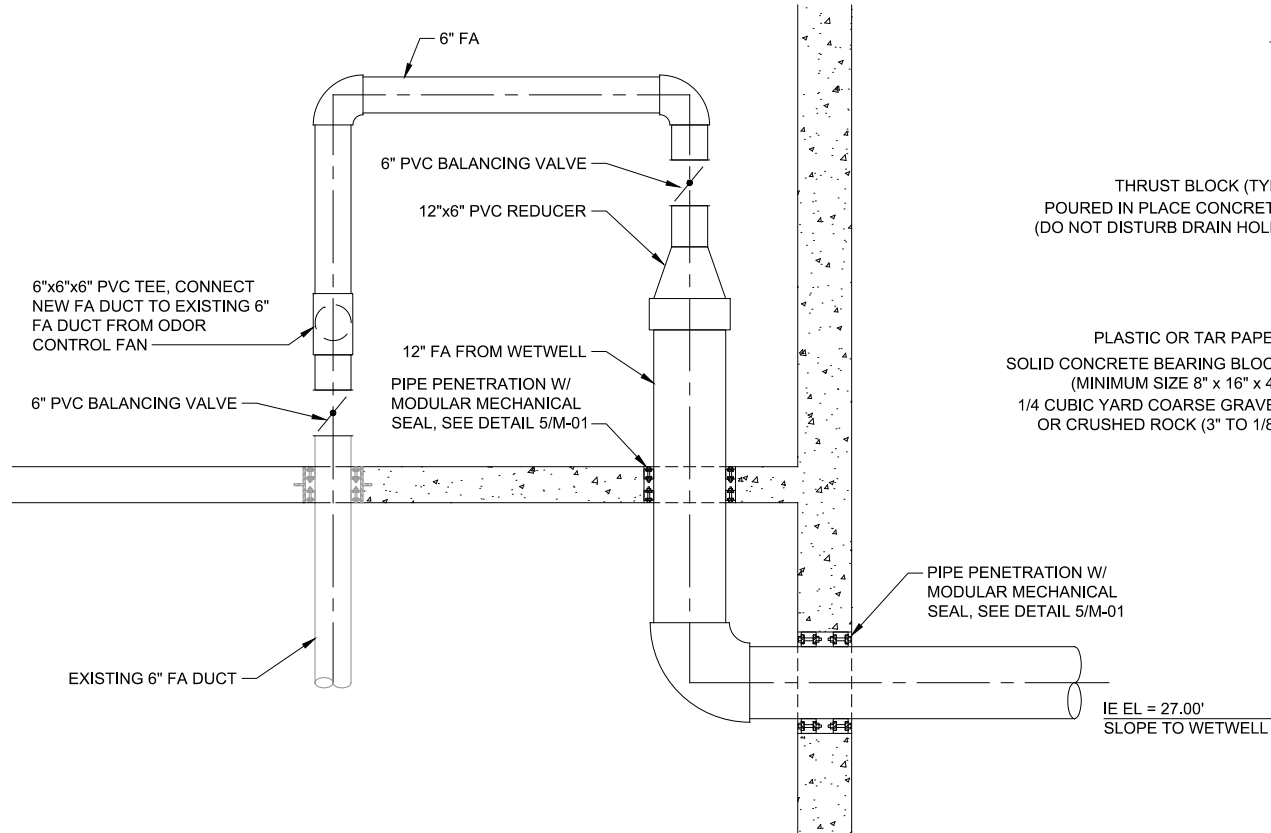


LADDER DETAIL
SCALE: 3/4" = 1'-0"
VAR 1



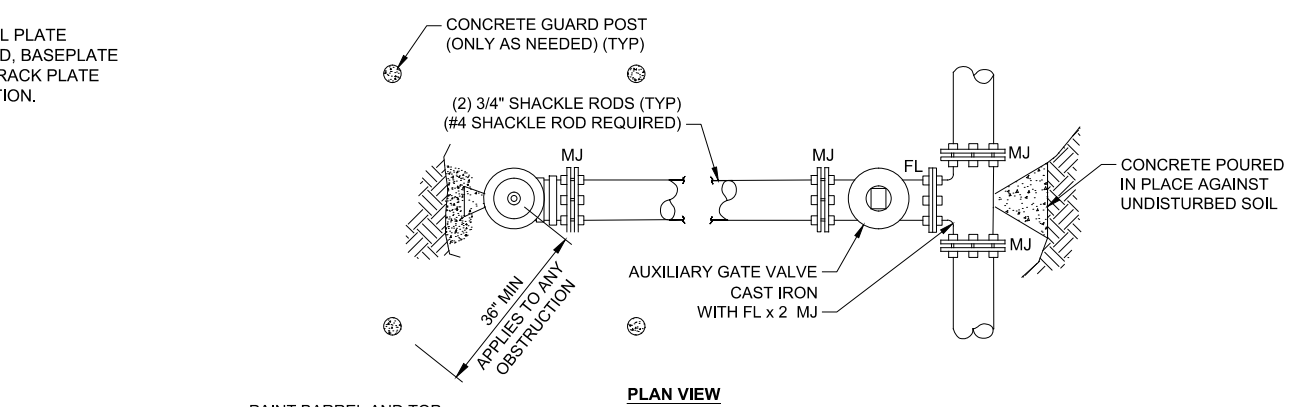
STAND MOUNTED HOSE RACK DETAIL
SCALE: 1" = 1'-0"
VAR 2

NOTE:
1. STAINLESS STEEL PLATE MOUNTING STAND, BASEPLATE AND 3/16" HOSE RACK PLATE AFTER FABRICATION.

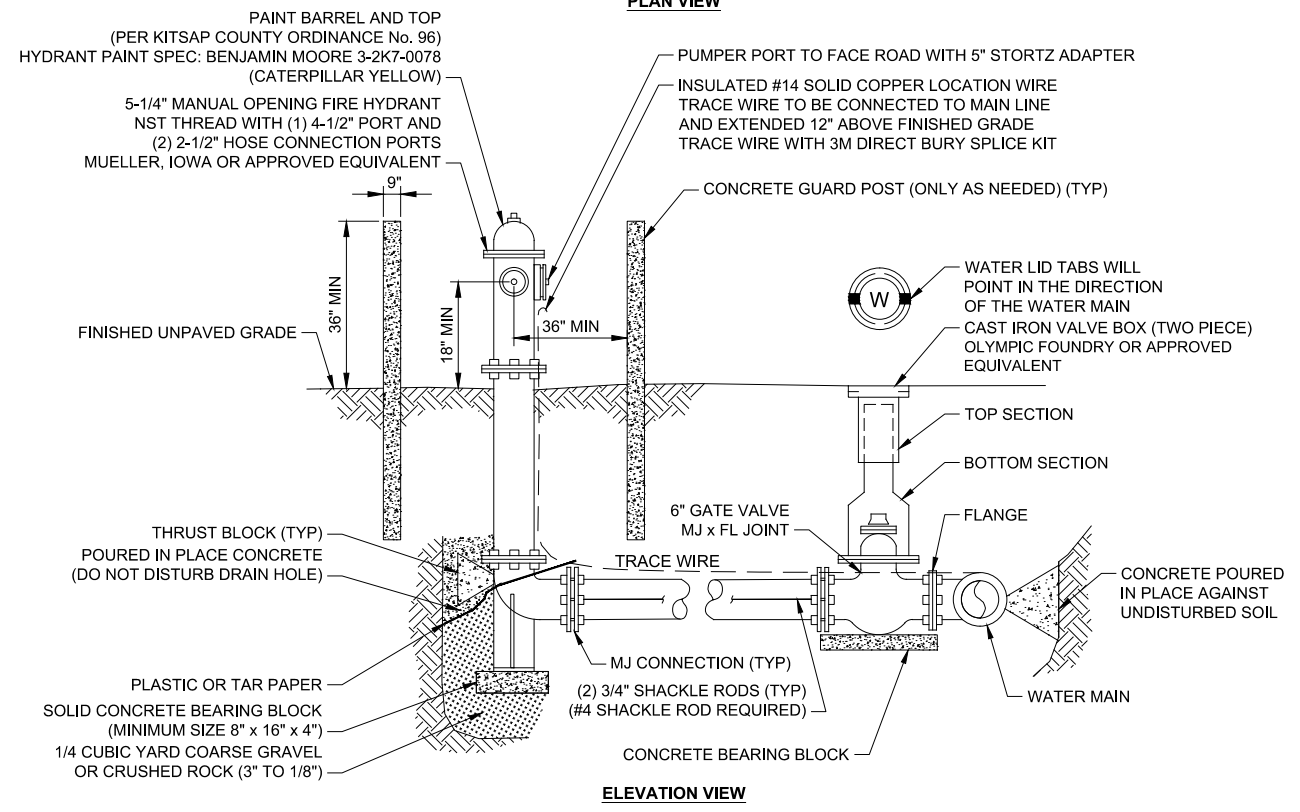


FOUL AIR CONNECTION DETAIL
SCALE: 3/4" = 1'-0"
VAR 3

NOTE:
1. BALANCE EXISTING FOUL AIR FAN TO PROVIDE 1/2 OF EXISTING FLOW FROM EXISTING AND NEW WETWELLS.



PLAN VIEW



FIRE HYDRANT ASSEMBLY DETAIL
SCALE: 1/2" = 1'-0"
VAR 4

NOTES:
1. FIRE HYDRANTS WILL BE DOUBLE RESTRAINED; USING TWO OF THREE FORMS OF RESTRAINT BETWEEN AUXILIARY VALVE AND HYDRANT ASSEMBLY.
2. MEGA LUGS POURED IN PLACE, CONCRETE THRUST BLOCK, 3/4" GALVANIZED SHACKLE RODS MAY BE REQUIRED (DEPENDING ON CONDITIONS).
3. REGARDLESS OF RESTRAINT METHOD, THERE WILL BE A POURED CONCRETE THRUST BLOCK BEHIND HYDRANT TEE. IF HYDRANT RUNS LONGER THAN ONE LENGTH OF PIPE, FIELD LOCK GASKETS WILL BE REQUIRED.

RECORD DRAWING

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Approved: B. BARTLE, P.E.

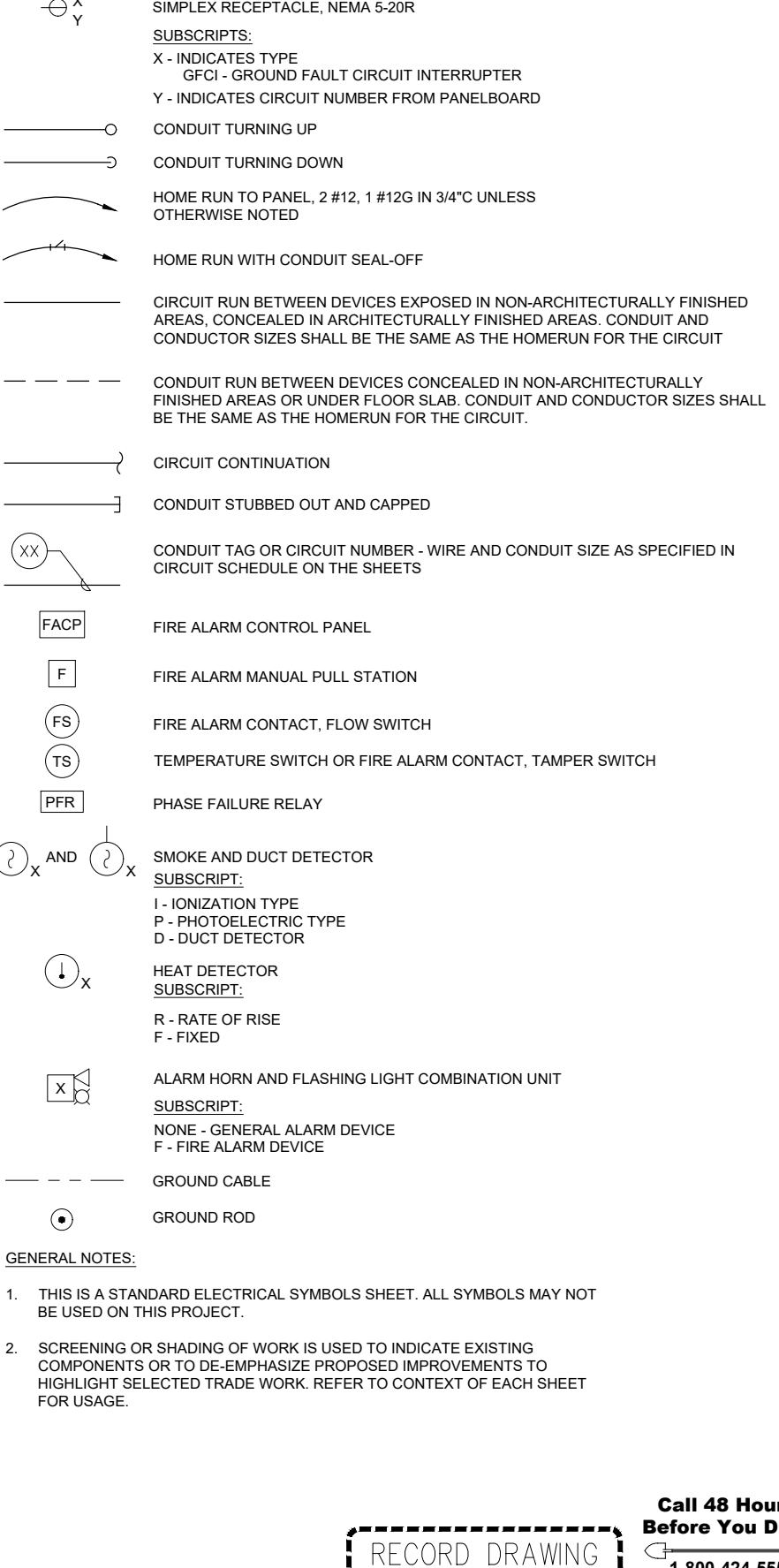
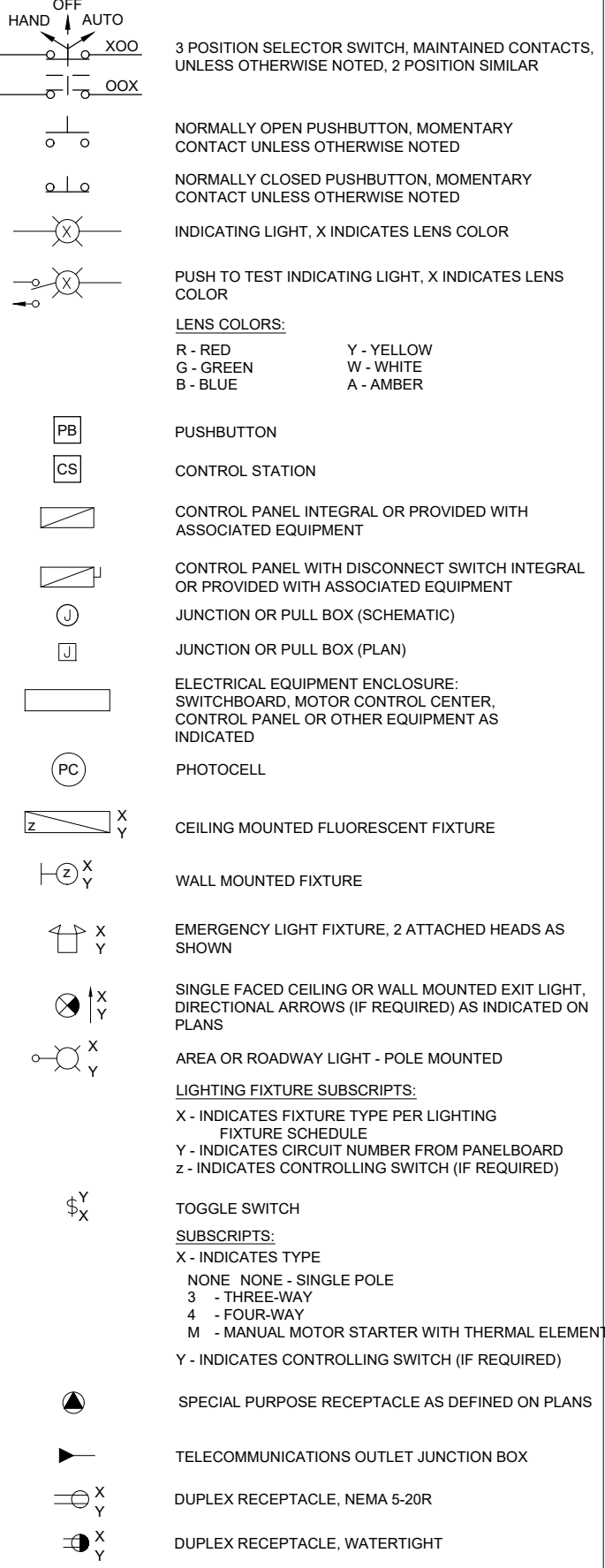
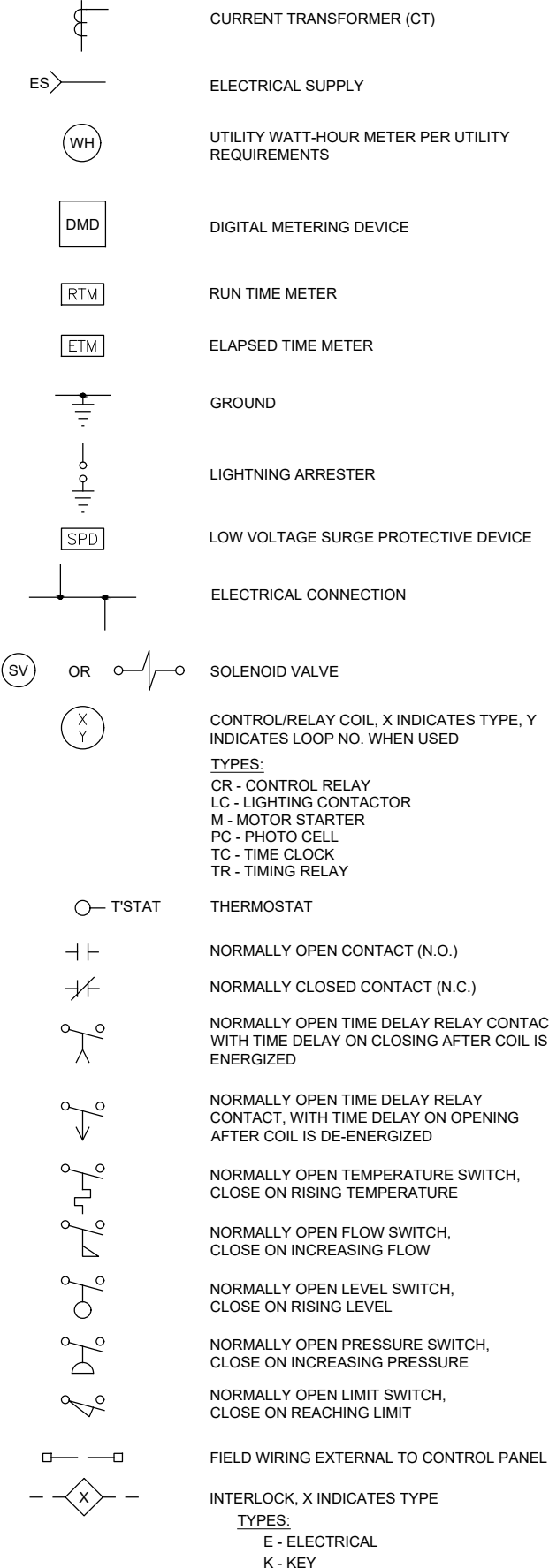
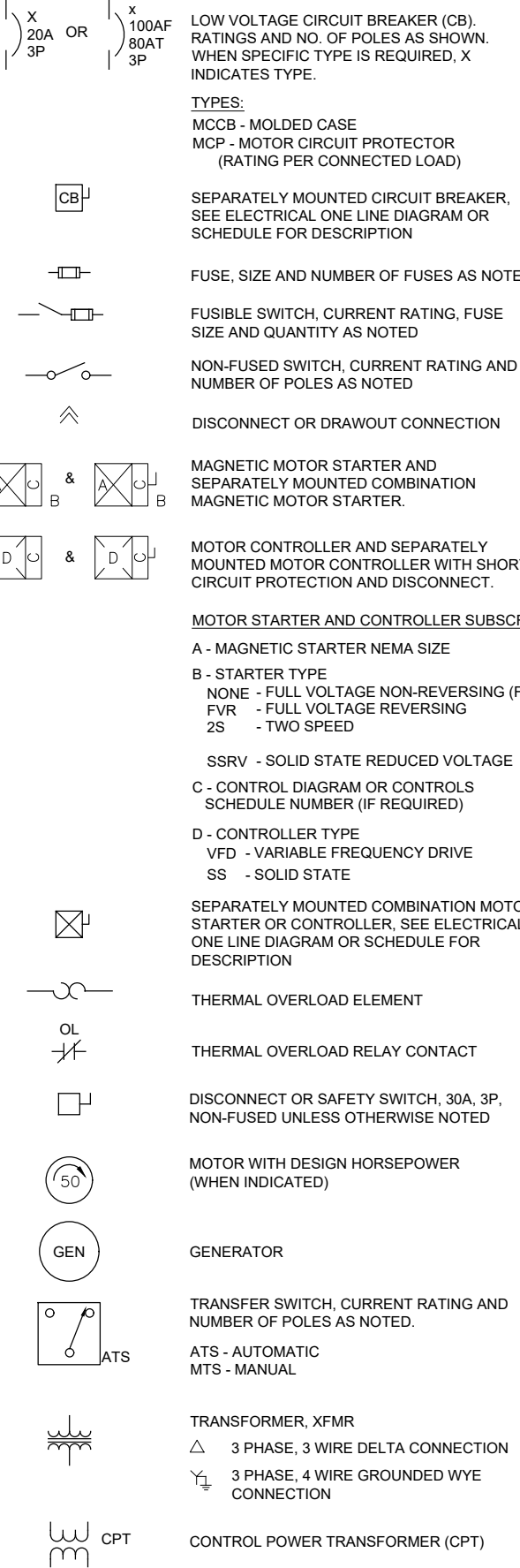
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KITSAP COUNTY PS 16/67 UPGRADES
PS 67 MECHANICAL DETAILS

Drawing: M-05
Sheet: 77 Of 101
File: 77-P13-10282_M-05
Date: February 2017



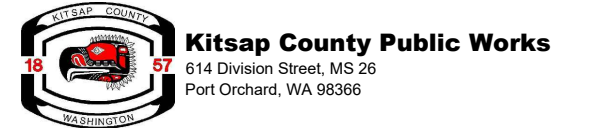
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Designed: K.L. McGOWAN
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 Checked: R. DETERS
 Approved: I.C. RINCON

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KITSAP COUNTY PS 16/67 UPGRADES

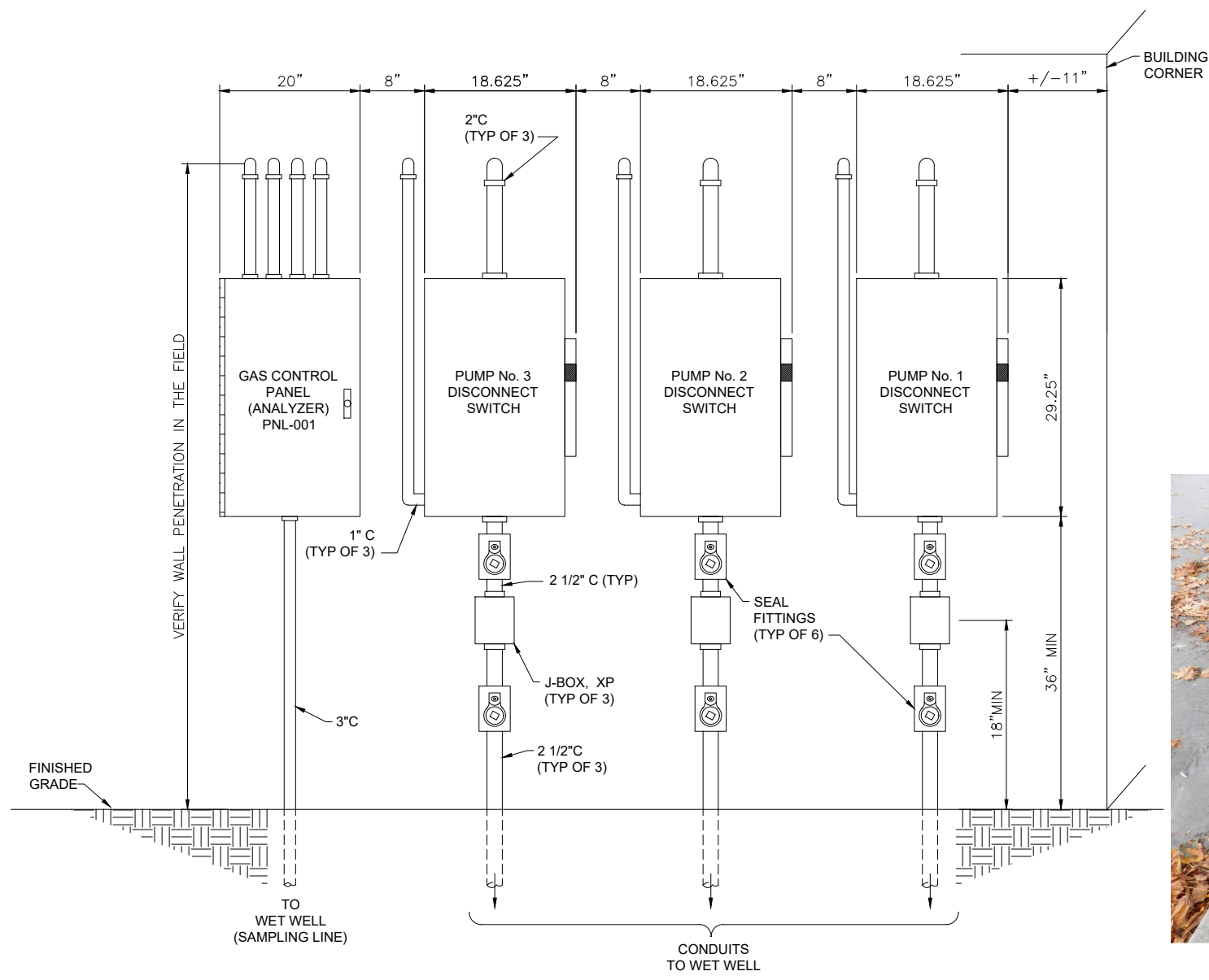
ELECTRICAL LEGEND

Drawing: **E-01**
 Sheet: **78** Of **101**
 File: 78-P13-10282_E-01
 Date: February 2017



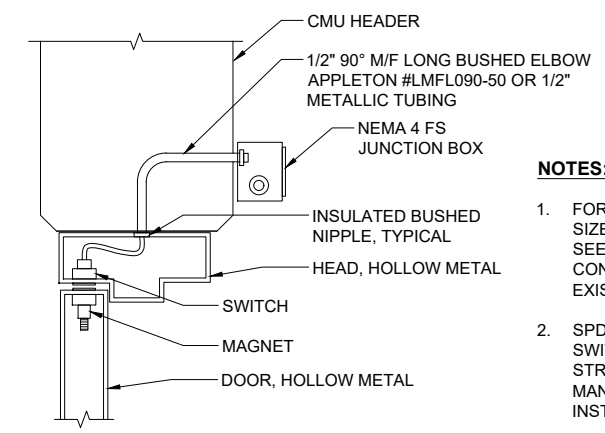
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WALL MOUNTED DISCONNECT SWITCHES AND GAS CONTROL PANEL

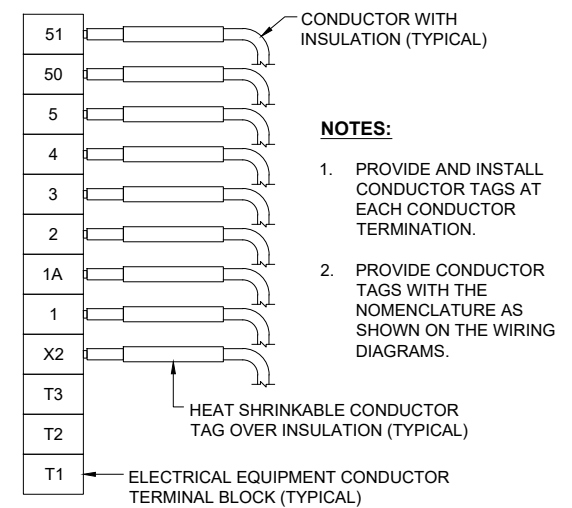
ELEVATION A
 NTS E-05



DOOR SWITCH INSTALLATION
DETAIL 1
 NTS E-05



SIDEWALK REMOVAL
DETAIL 3
 NTS C-38



TYPICAL WIRE TAGGING
DETAIL 2
 NTS



INSTRUMENTATION AND CONTROL CONDUIT
DETAIL 4
 NTS E-05

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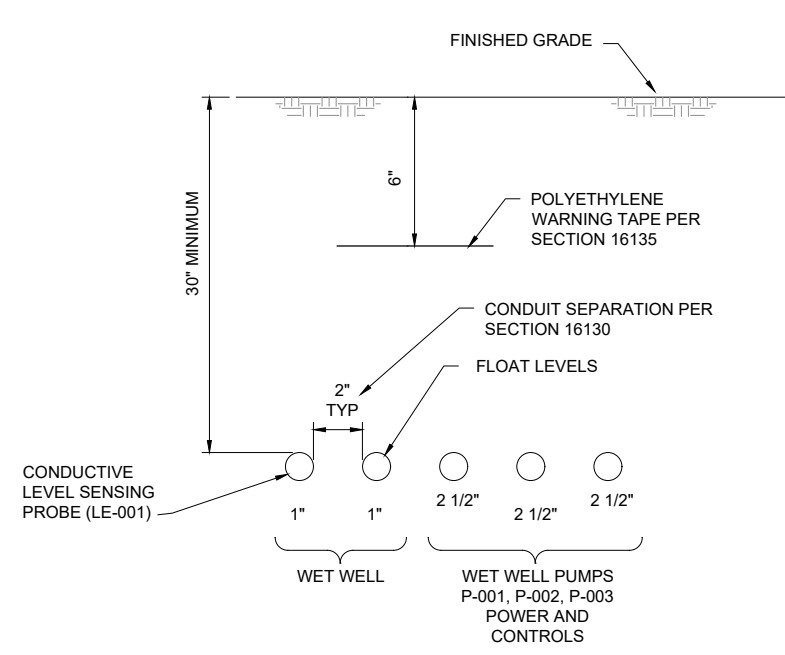


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KITSAP COUNTY PS 16/67 UPGRADES
ELECTRICAL DETAILS
SHEET 1 OF 2

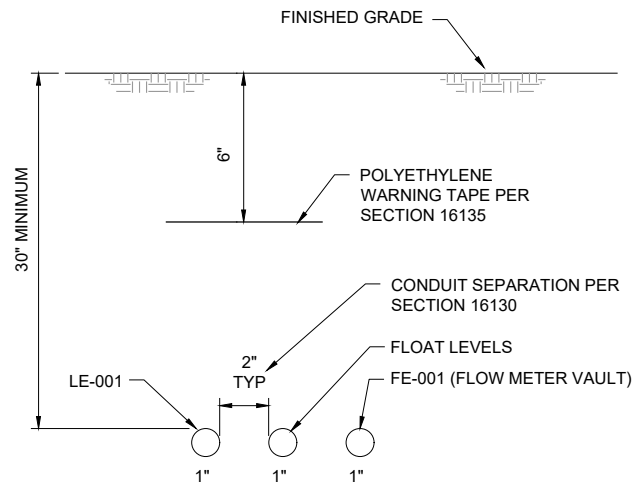
Drawing: **E-02**
 Sheet: **79** Of **101**
 File: 79-P13-10282_E-02
 Date: February 2017

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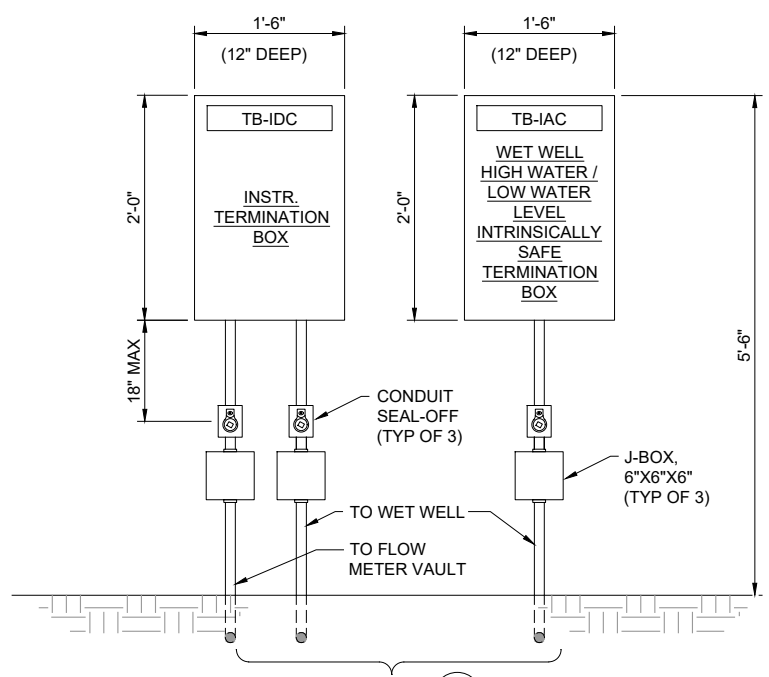
DIRECT BURIED DUCTBANK

SECTION A
NTS E-05



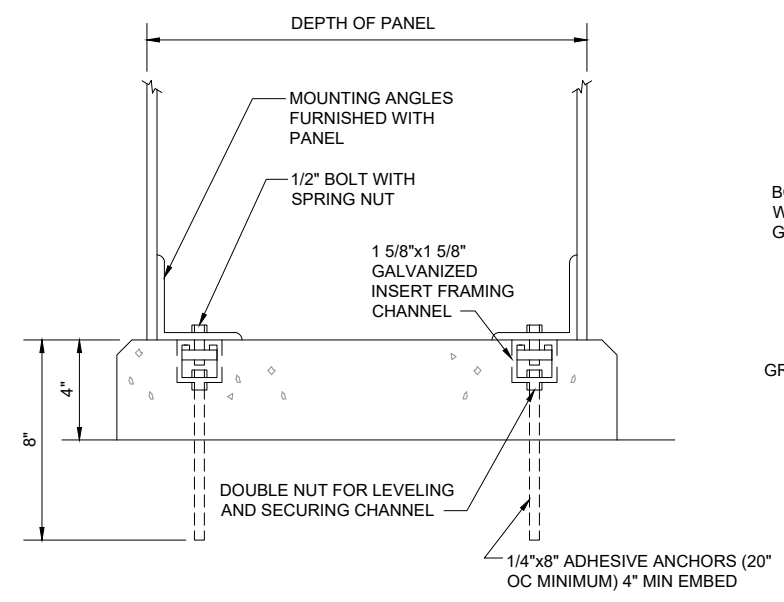
DIRECT BURIED DUCTBANK

SECTION B
NTS E-05



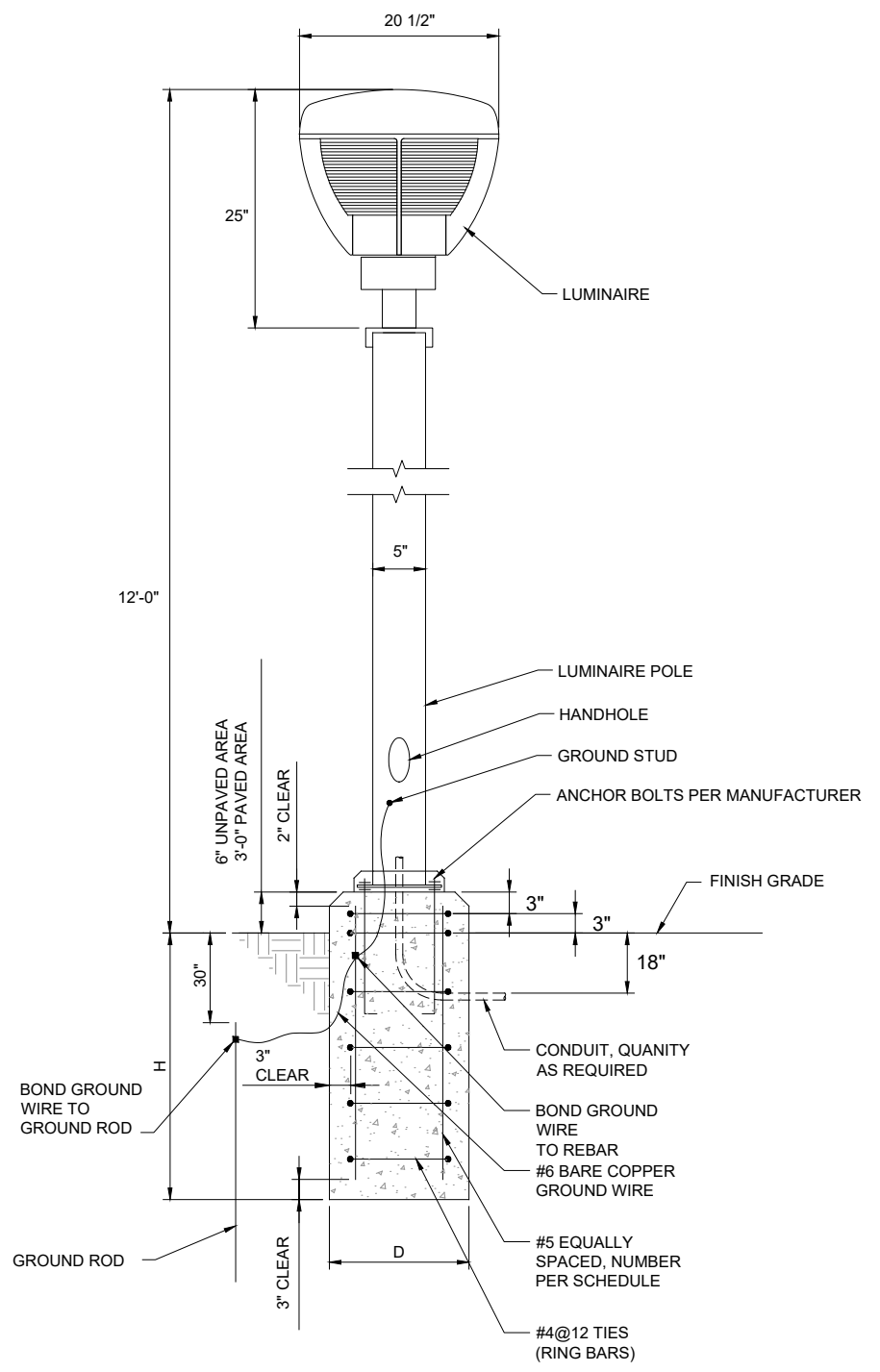
SEE SECTION B E-03
WALL MOUNTED TERMINATION BOXES

ELEVATION C
NTS E-05



TYPICAL FREE-STANDING PANEL FOUNDATION

DETAIL 1
NTS E-03,05



DIMENSION SCHEDULE		
POLE HEIGHT	MINIMUM D	MINIMUM H
11' TO 20'	2'-0"	6'-6"

POLE LIGHT

DETAIL 2
NTS E-05

RECORD DRAWING

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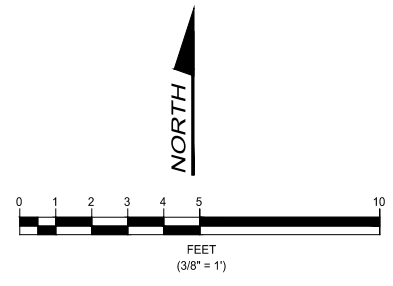
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Checked: R. DETERS
Approved: I.C. RINCON
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If Not One Inch Scale Accordingly

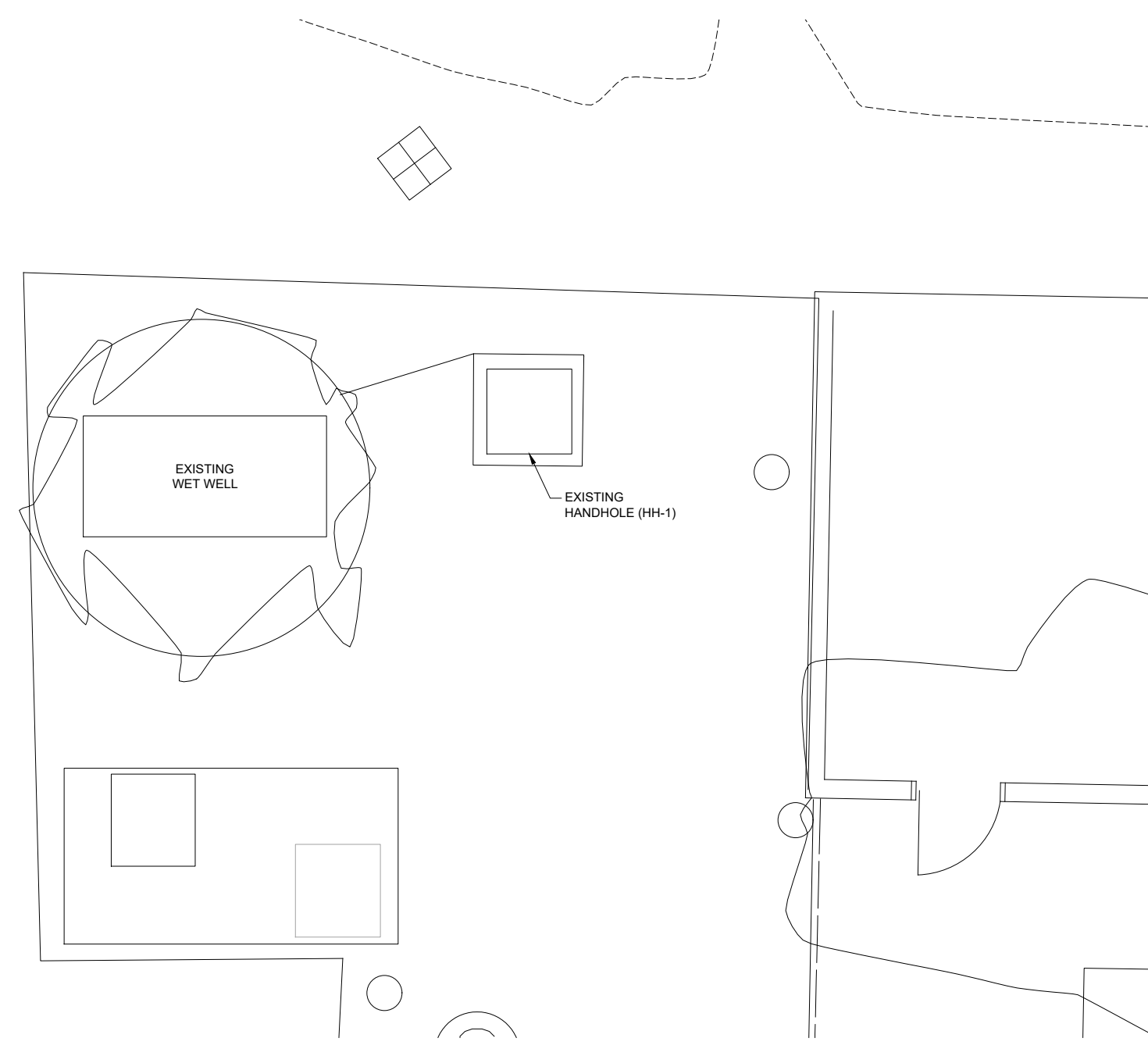
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KITSAK COUNTY PS 16/67 UPGRADES
ELECTRICAL DETAILS
SHEET 2 OF 2

Drawing: **E-03**
Sheet: **80** Of **101**
File: 80-P13-10282_E-03
Date: February 2017



NOTE: DELETED SCOPE OF WORK.
SHEET NOT USED.



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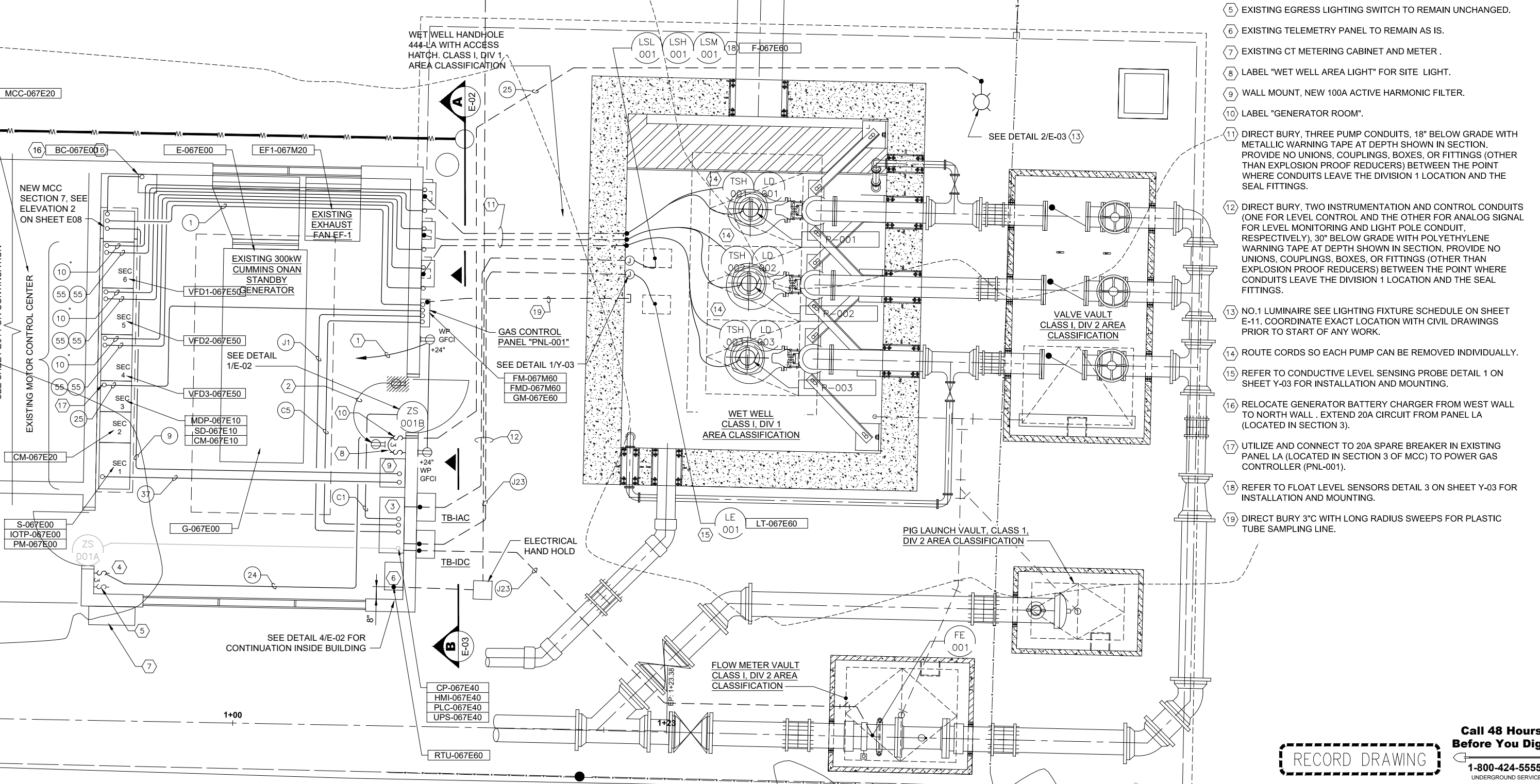
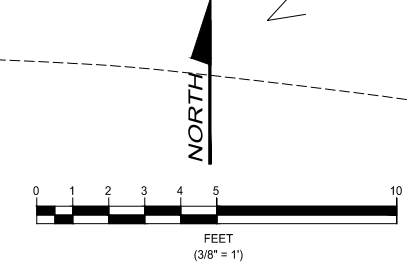
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KITSAP COUNTY PS 16/67 UPGRADES
POWER AND INSTRUMENTATION PLAN
SHEET 1 OF 2

RECORD DRAWING

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Drawing: **E-04**
Sheet: **81** Of **101**
File: 81-P13-10282_E-04
Date: February 2017



- GENERAL NOTES:**
1. REFER TO DRAWING E10 FOR INSTRUMENTATION AND CONTROL CONDUIT CONNECTIONS.
 2. REFER TO DRAWING E07 FOR ONE-LINE DIAGRAM.
 3. REFER TO DRAWING E11 FOR CONDUIT AND CABLE SCHEDULE
 4. PROVIDE EXPLOSION PROOF FITTINGS FOR ALL CONDUITS LEAVING HAZARDOUS AREAS. WET WELL, FLOW METER VAULT AND AS SHOWN ON ELEVATION C ON SHEET E03.

- KEYNOTES:**
- 1 CONNECT TO SPARE 20A/1P BREAKER IN EXISTING PANEL LA (IN SECTION 3 OF MCC).
 - 2 DISCONNECT, REMOVE, RELOCATE AND RECONNECT EXISTING RECEPTACLE TO NEW LOCATION AS INDICATED BY ARROW.
 - 3 EXISTING PSCP (NEW PSCP IN SAME FOOTPRINT, WET WELL LEVEL TRANSMITTER AND FLOW METER TRANSMITTER TO BE IN PSCP).
 - 4 DISCONNECT AND REMOVE EXISTING GENERATOR ROOM LIGHTING SWITCH AND REPLACE WITH NEW 3-WAY TYPE SWITCH.
 - 5 EXISTING EGRESS LIGHTING SWITCH TO REMAIN UNCHANGED.
 - 6 EXISTING TELEMETRY PANEL TO REMAIN AS IS.
 - 7 EXISTING CT METERING CABINET AND METER .
 - 8 LABEL "WET WELL AREA LIGHT" FOR SITE LIGHT.
 - 9 WALL MOUNT, NEW 100A ACTIVE HARMONIC FILTER.
 - 10 LABEL "GENERATOR ROOM".
 - 11 DIRECT BURY, THREE PUMP CONDUITS, 18" BELOW GRADE WITH METALLIC WARNING TAPE AT DEPTH SHOWN IN SECTION. PROVIDE NO UNIONS, COUPLINGS, BOXES, OR FITTINGS (OTHER THAN EXPLOSION PROOF REDUCERS) BETWEEN THE POINT WHERE CONDUITS LEAVE THE DIVISION 1 LOCATION AND THE SEAL FITTINGS.
 - 12 DIRECT BURY, TWO INSTRUMENTATION AND CONTROL CONDUITS (ONE FOR LEVEL CONTROL AND THE OTHER FOR ANALOG SIGNAL FOR LEVEL MONITORING AND LIGHT POLE CONDUIT, RESPECTIVELY), 30" BELOW GRADE WITH POLYETHYLENE WARNING TAPE AT DEPTH SHOWN IN SECTION. PROVIDE NO UNIONS, COUPLINGS, BOXES, OR FITTINGS (OTHER THAN EXPLOSION PROOF REDUCERS) BETWEEN THE POINT WHERE CONDUITS LEAVE THE DIVISION 1 LOCATION AND THE SEAL FITTINGS.
 - 13 NO.1 LUMINAIRE SEE LIGHTING FIXTURE SCHEDULE ON SHEET E-11. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS PRIOR TO START OF ANY WORK.
 - 14 ROUTE CORDS SO EACH PUMP CAN BE REMOVED INDIVIDUALLY.
 - 15 REFER TO CONDUCTIVE LEVEL SENSING PROBE DETAIL 1 ON SHEET Y-03 FOR INSTALLATION AND MOUNTING.
 - 16 RELOCATE GENERATOR BATTERY CHARGER FROM WEST WALL TO NORTH WALL . EXTEND 20A CIRCUIT FROM PANEL LA (LOCATED IN SECTION 3).
 - 17 UTILIZE AND CONNECT TO 20A SPARE BREAKER IN EXISTING PANEL LA (LOCATED IN SECTION 3 OF MCC) TO POWER GAS CONTROLLER (PNL-001).
 - 18 REFER TO FLOAT LEVEL SENSORS DETAIL 3 ON SHEET Y-03 FOR INSTALLATION AND MOUNTING.
 - 19 DIRECT BURY 3"C WITH LONG RADIUS SWEEPS FOR PLASTIC TUBE SAMPLING LINE.

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KITSAP COUNTY PS 16/67 UPGRADES		Drawing: E-05
POWER AND INSTRUMENTATION PLAN		Sheet: 82 Of 101
SHEET 2 OF 2		File: 82-P13-10282_E-05
		Date: February 2017

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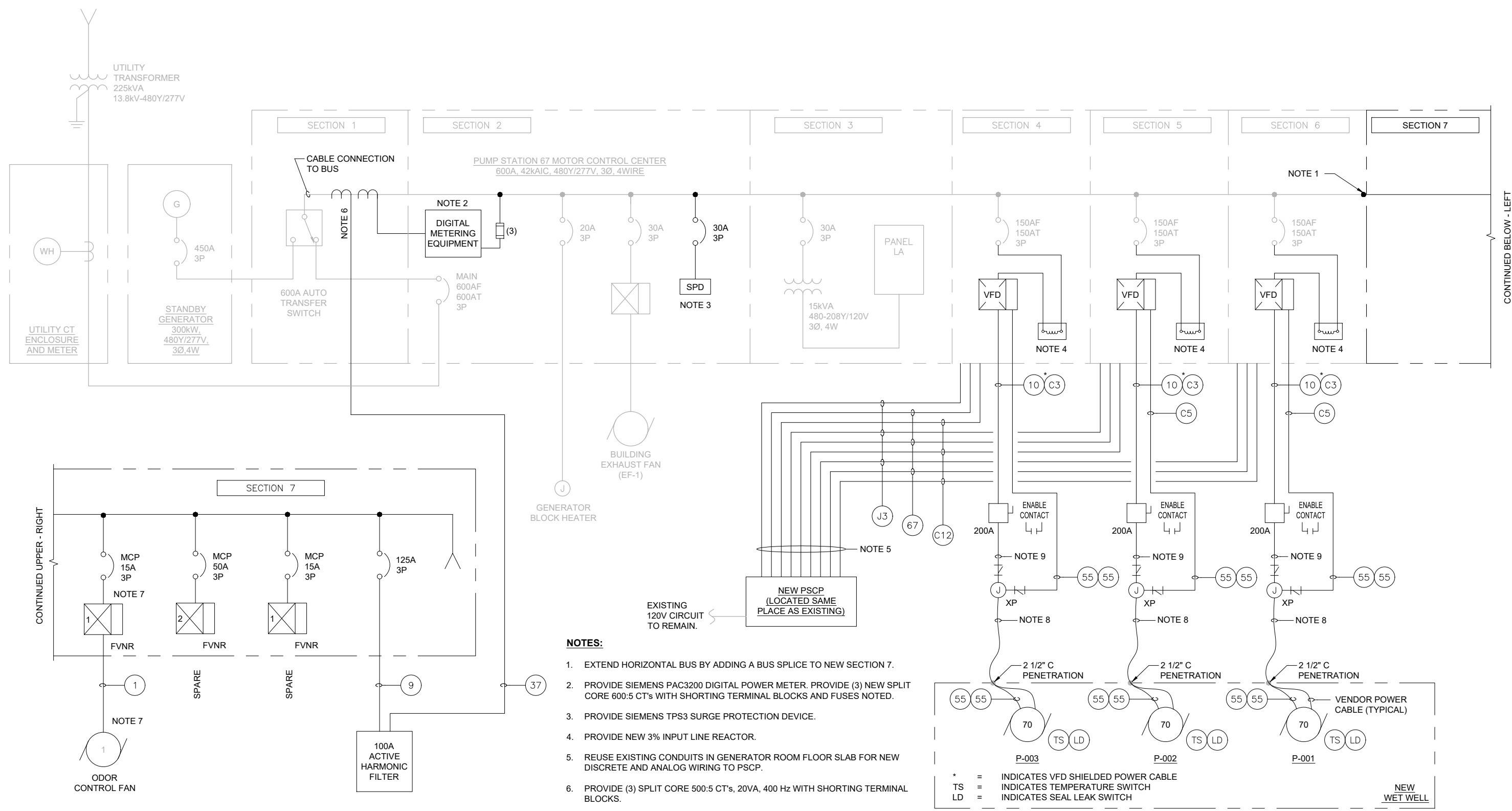
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 Drawn: E.F. PILAPIL
 Checked: R. DETERS
 Approved: I.C. RINCON

Scale: 3/8"=1'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly

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- NOTES:**
1. EXTEND HORIZONTAL BUS BY ADDING A BUS SPLICE TO NEW SECTION 7.
 2. PROVIDE SIEMENS PAC3200 DIGITAL POWER METER. PROVIDE (3) NEW SPLIT CORE 600:5 CT'S WITH SHORTING TERMINAL BLOCKS AND FUSES NOTED.
 3. PROVIDE SIEMENS TPS3 SURGE PROTECTION DEVICE.
 4. PROVIDE NEW 3% INPUT LINE REACTOR.
 5. REUSE EXISTING CONDUITS IN GENERATOR ROOM FLOOR SLAB FOR NEW DISCRETE AND ANALOG WIRING TO PSCP.
 6. PROVIDE (3) SPLIT CORE 500:5 CT'S, 20VA, 400 Hz WITH SHORTING TERMINAL BLOCKS.
 7. PROVIDE NEW SIZE 1 FVNR STARTER TO REPLACE EXISTING STARTER IN SECTION 2. EXTEND POWER AND CONTROL WIRING AS REQUIRED TO NEW STARTER LOCATION.
 8. PROVIDE 2 1/2"C WITH VFD SHIELDED VENDOR POWER AND VENDOR CONTROL CABLES.
 9. PROVIDE VFD SHIELDED VENDOR POWER CABLE.

* = INDICATES VFD SHIELDED POWER CABLE
 TS = INDICATES TEMPERATURE SWITCH
 LD = INDICATES SEAL LEAK SWITCH

RECORD DRAWING

Call 48 Hours Before You Dig
1-800-424-5555
 UNDERGROUND SERVICE

No.	Revision	Date	By	App'd



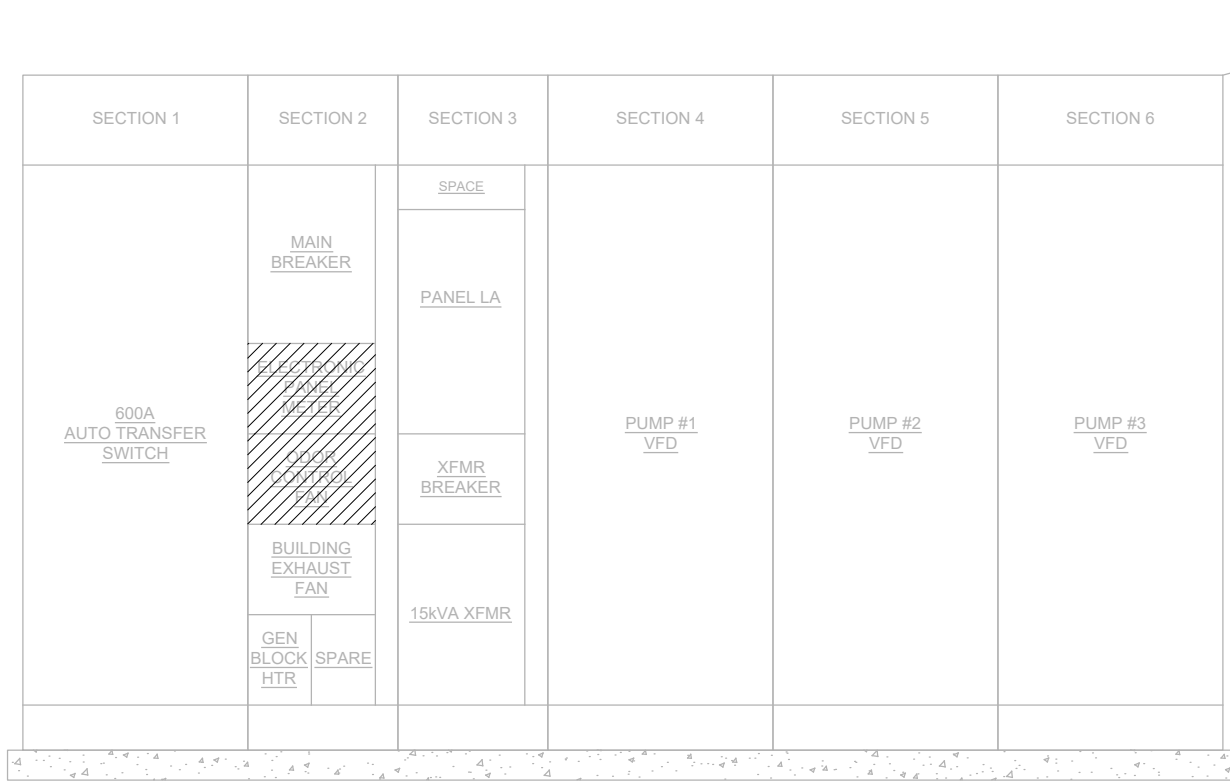
Designed: K.L. MCGOWAN
 Drawn: E.F. PILAPIL
 Checked: R. DETERS
 Approved: I.C. RINCON



Kitsap County Public Works
 614 Division Street, MS 26
 Port Orchard, WA 98366

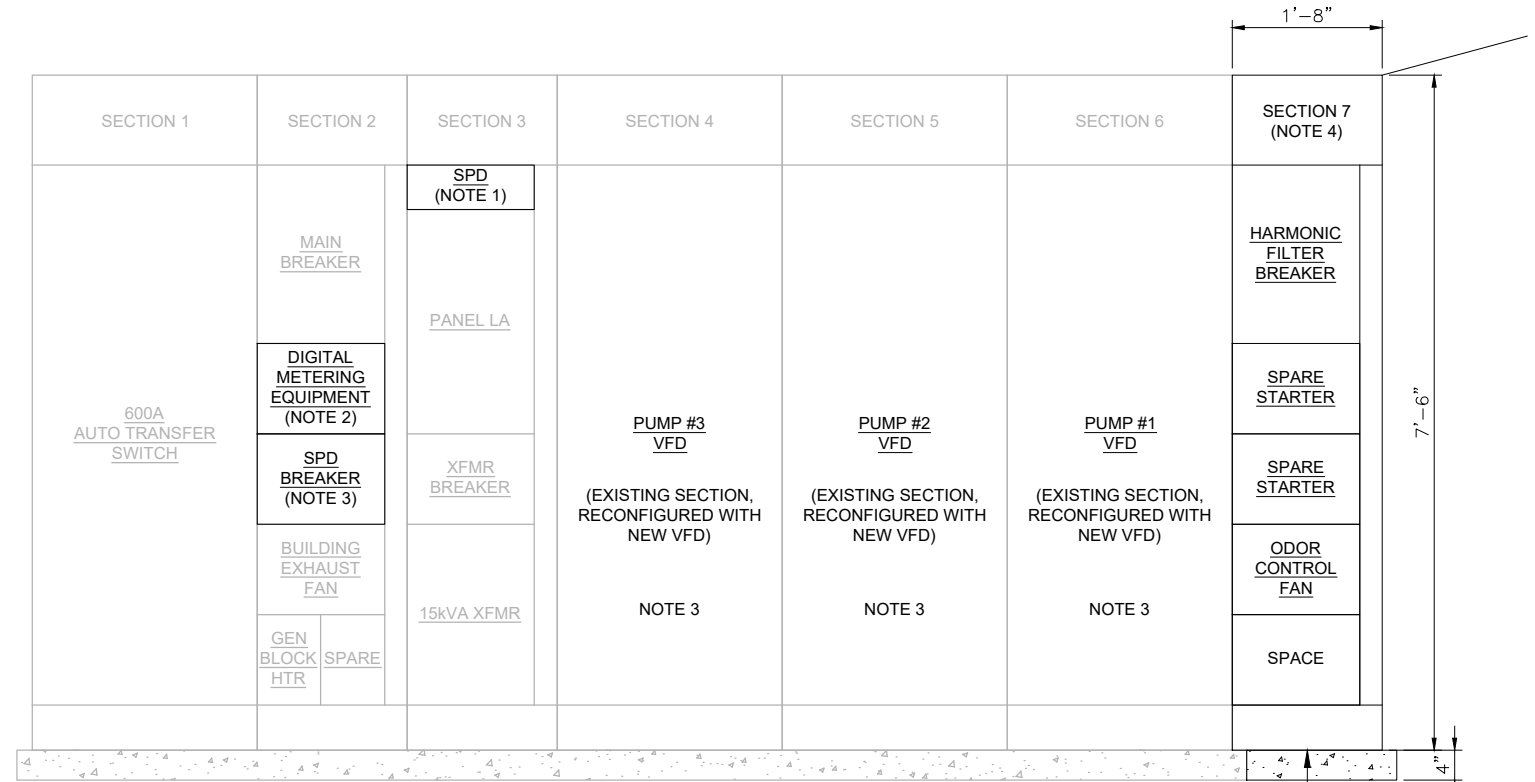
KITSAP COUNTY PS 16/67 UPGRADES
ONE LINE DIAGRAM NEW WORK

Drawing: **E-07**
 Sheet: **84** Of **101**
 File: 84-P13-10282_E-07
 Date: February 2017



PUMP STATION 67
MOTOR CONTROL CENTER - DEMOLITION

ELEVATION 1
NTS



PUMP STATION 67
MOTOR CONTROL CENTER - NEW WORK

ELEVATION 2
NTS

- NOTES:**
1. PROVIDE A BUCKET IN EXISTING SPACE FOR NEW SPD.
 2. PROVIDE NEW DOORS FOR DIGITAL METERING EQUIPMENT AND SPD BREAKER SPACES.
 3. PROVIDE NEW DOORS AND CONTROL DEVICES FOR MCC4, MCC5 AND MCC6.
 4. PROVIDE NEW SECTION 7 ADDITION TO MCC WITH STARTERS AND CIRCUIT BREAKER NOTED HERE AND ON DRAWING E-07.

SEE DETAIL 1/E-03

FILE NAME (UPDATED BY) PLOT DATE & TIME
 S:\CAD\KITSAP\COUNTY\12-10237-01\PIPE DESIGN\DWG\12-10237-01\PP-SU.DWG (R.S) APR 09 2013 07:13:40
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No.	Revision	Date	By	App'd



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 Checked: R. DETERS
 Approved: I.C. RINCON

Scale:
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 If Not One Inch Scale Accordingly



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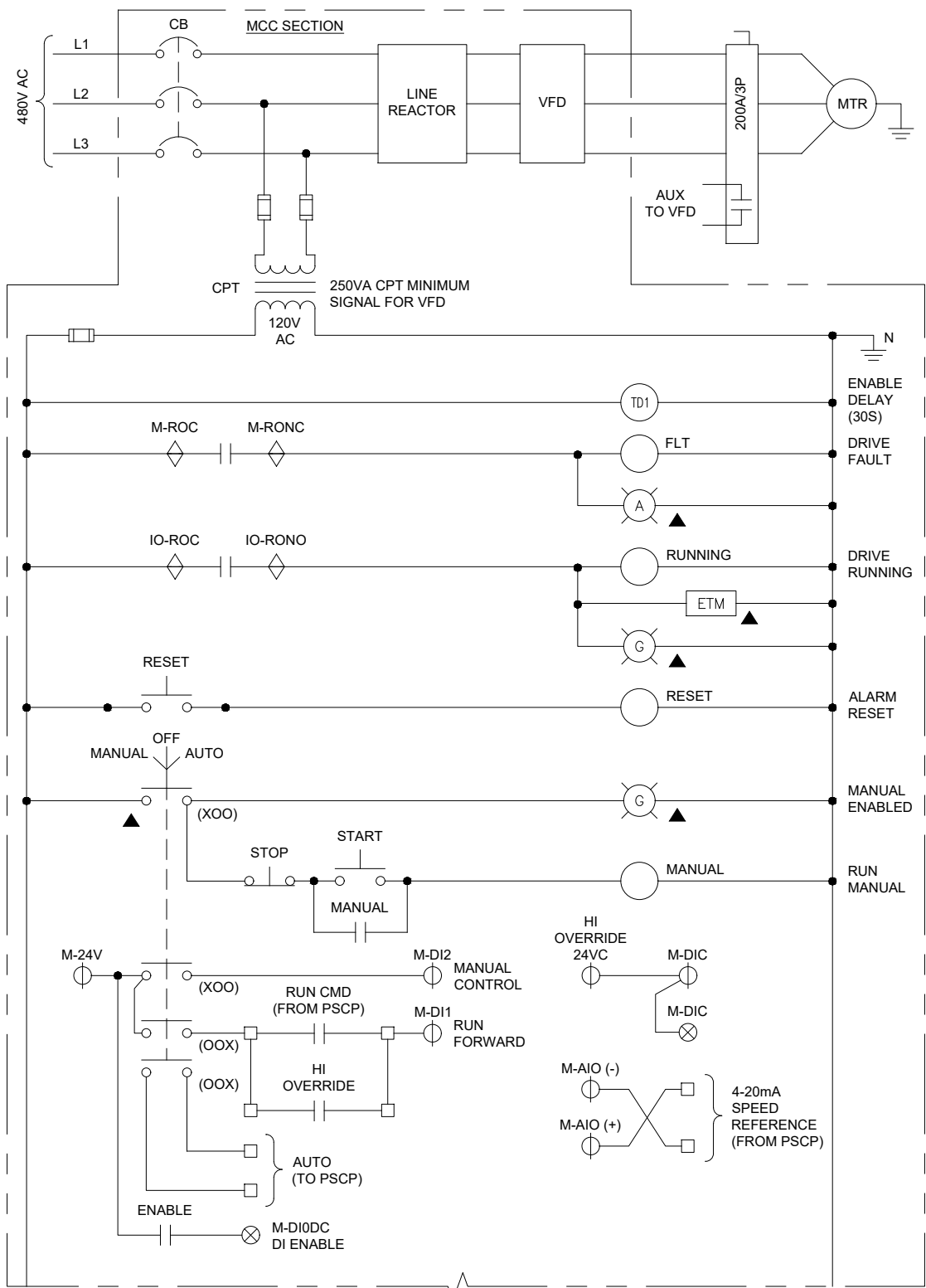
KITSAP COUNTY PS 16/67 UPGRADES
MOTOR CONTROL CENTER EQUIPMENT ELEVATION

Drawing: **E-08**
 Sheet: **85** Of **101**
 File: 85-P13-10282_E-08
 Date: February 2017



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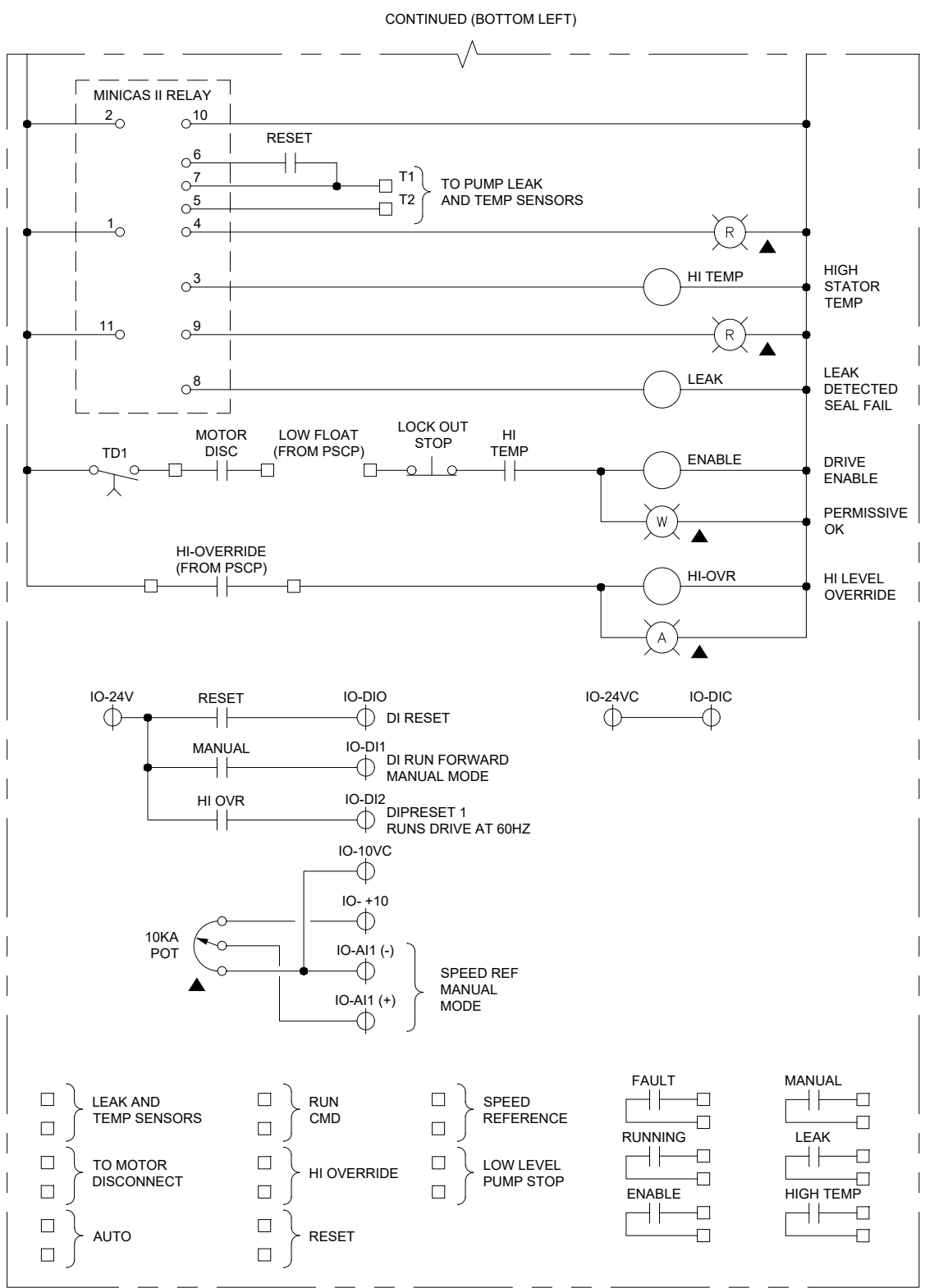
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 XREFS: X12-10237-01PL-Prop_Silverdale, X12-10237-01PL_Lx_Topo_Silverdale, X12-10237-01PL_Prelim, X12-10237-01PL_IB



CONTINUED (UPPER RIGHT)

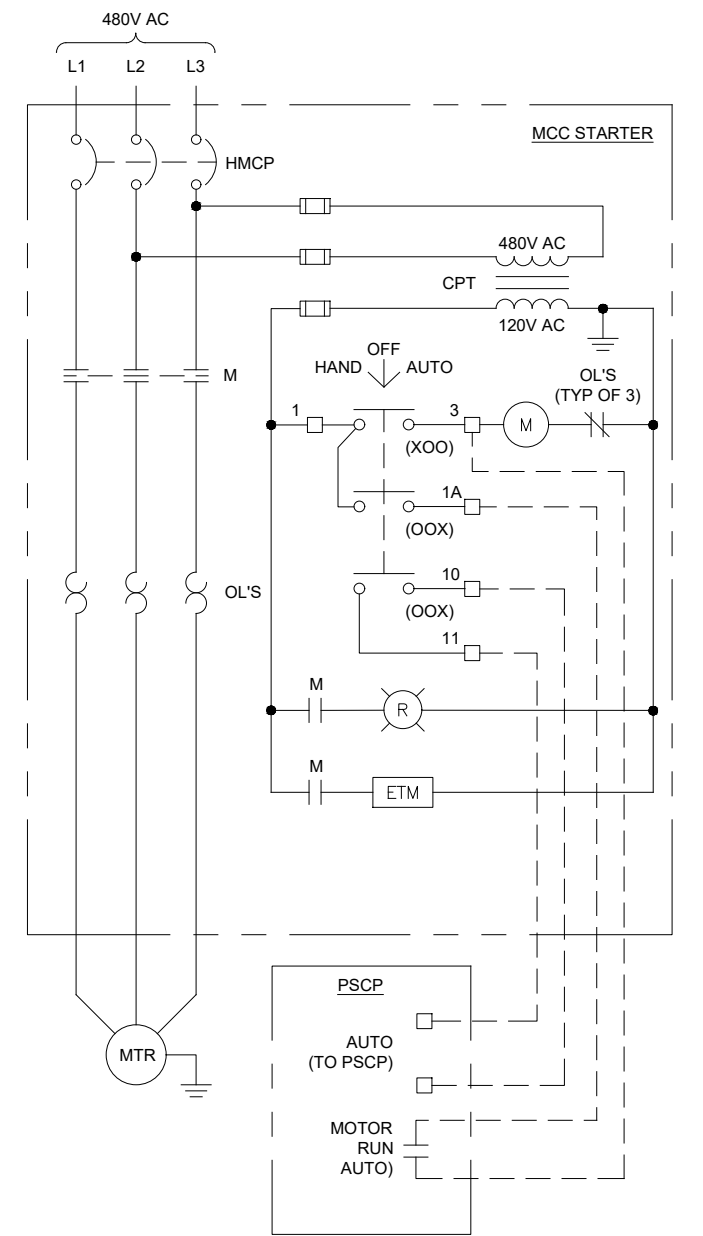
MOTOR CONTROL - VFD (TYP FOR 3)

DIAGRAM 1
NTS



LEGEND

- ⊕ = TERMINAL BLOCK 1 (TB1)
- ⊗ = TERMINAL BLOCK 3 (TB3)
- M-XXX = MAIN BOARD CONNECTION
- ◇ = TERMINAL BLOCK 2 (TB2)
- ▲ = MOUNTED ON DOOR
- IO-XXX = I/O MODULE CONNECTION



ODOR CONTROL MOTOR

DIAGRAM 2
NTS

RECORD DRAWING

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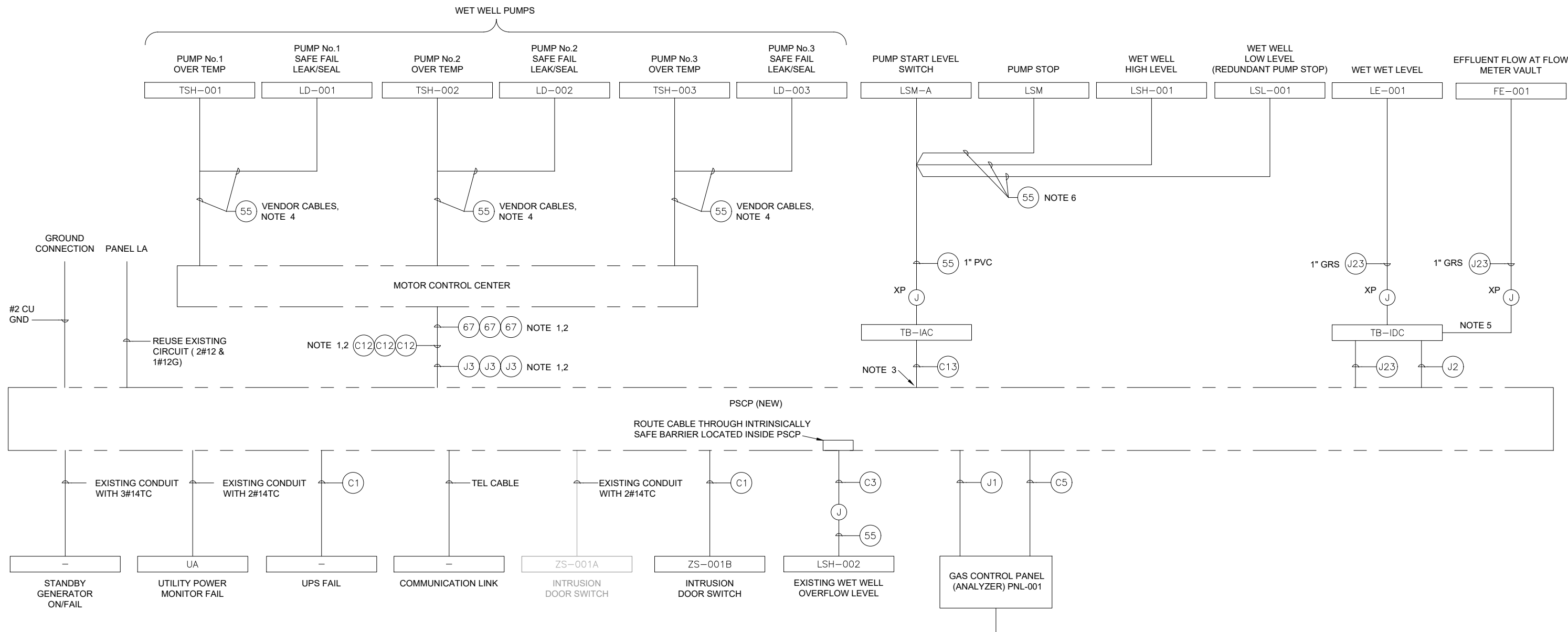
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KITSAP COUNTY PS 16/67 UPGRADES
CONTROL WIRING DIAGRAM

Drawing: **E-09**
 Sheet: **86** Of **101**
 File: 86-P13-10282_E-09
 Date: February 2017



- NOTES:**
1. ROUTE CABLES IN EXISTING CONDUITS EMBEDDED IN FLOOR FROM MCC TO PSCP.
 2. PROVIDE THESE VFD CONTROL INSTRUMENTATION AND CAT6 CABLES (INCLUDING SPARES WHERE NOTED) BETWEEN EXISTING MCC AND NEW PSCP.
 3. FLOATS SHALL NOT GO THROUGH PLC IN THE EVENT OF A PLC FAILURE. OPERATE STATION OFF FLOATS AS DESCRIBED IN SPECIFICATION SECTION 13441 CONTROL LOOP DESCRIPTIONS.
 4. VENDOR OVERTEMP AND LEAK/SEAL CABLES ARE COMBINED IN 2 1/2" C WITH VFD SHIELDED VENDOR POWER CABLES. SEE ELEVATION A ON SHEET E-02 FOR SEPARATION OF POWER AND CONTROL CABLES.
 5. NO TERMINATIONS FOR FLOW METER VENDOR CABLE; CONTINUOUS CABLE.
 6. PROVIDE FLOAT WIRING IN SINGLE 1" CONDUIT FROM WET WELL.

FILE NAME (UPDATED BY) PLOT DATE & TIME
 S:\CAD\KITSAP\COO\12-10237-01 PIPE DESIGN\DWG\12-10237-01 PL_PIPES\DWG (R.S.) APR 09 2013 07:13:40
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No.	Revision	Date	By	App'd



Designed: K.L. MCGOWAN
 Drawn: E.F. PILAPIL
 Checked: R. DETERS
 Approved: I.C. RINCON

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 If Not One Inch Scale Accordingly



Kitsap County Public Works
 614 Division Street, MS 26
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KITSAP COUNTY PS 16/67 UPGRADES

CONTROL BLOCK DIAGRAM

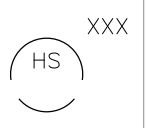
Drawing: **E-10**
 Sheet: **87** Of **101**
 File: 87-P13-10282_E-10
 Date: February 2017

RECORD DRAWING

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 S:\CAD\KITSAP\COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_PP-SU.DWG (R.S.)
 PLOT DATE & TIME
 APR 09 2013 07:13:40
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INSTRUMENT IDENTIFICATION LETTERS					INSTRUMENT/CONTROL SWITCH DEVICE DESCRIPTORS		MISCELLANEOUS ABBREVIATIONS		GENERAL NOTES
	FIRST LETTER		SUCCEEDING LETTERS			SYMBOL	ABBREVIATION (XXX) : DEVICE DESCRIPTORS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER				
A	ANALYSIS		ALARM			(HS) XXX	ACK ESTP FAIL FOR FR FS HA HO HOA HOR LL LLS LOR LR LS MA OAC OCA OC OO OSC POT RJ RJR SIL SS	AI AO CB CIP DI DO E/P EXH FCV FPP FQI FQIY FV HPA IAS I/O I/P LCP M MCC MCP MFR OI OIT P&ID PC PD PH PS PLC TB TVSS UPS VFD WAN WW	1. THIS IS A STANDARD INSTRUMENTATION SYMBOLOGY SHEET. STANDARD INSTRUMENTATION AND EQUIPMENT ABBREVIATIONS ARE SHOWN ON SHEET D1.01. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE				2. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR MISCELLANEOUS PIPING SYMBOLS.
C	USER'S CHOICE			CONTROL	CLOSED				3. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
D	USER'S CHOICE	DIFFERENTIAL							4. VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO INSTRUMENTATION DIAGRAMS. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR VALVE SYMBOLS USED ELSEWHERE ON THE SHEETS.
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)						
F	FLOW RATE	RATIO (FRACTION)							
G	USER'S CHOICE		GLASS, VIEWING DEVICE						
H	HAND				HIGH				
I	CURRENT (ELECTRICAL)		INDICATE						
J	POWER	SCAN							
K	TIME, TIME SCHEDULE	TIME; RATE OF CHANGE		CONTROL STATION					
L	LEVEL		LIGHT		LOW				
M	USER'S CHOICE	MOMENTARY			MIDDLE, INTERMEDIATE				
N	USER'S CHOICE								
O	USER'S CHOICE		ORIFICE, RESTRICTION						
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION						
Q	QUANTITY	INTEGRATE, TOTALIZE							
R	RADIATION		RECORD						
S	SPEED, FREQUENCY	SAFETY		SWITCH					
T	TEMPERATURE			TRANSMIT					
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION				
V	VIBRATION, MECH. ANALYSIS			VALVE, DAMPER, LOUVER					
W	WEIGHT, FORCE		WELL						
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED				
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT					
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT					



ANALYTICAL DESCRIPTORS

BFV	BUTTERFLY VALVE
CL2	CHLORINE (ANALYZER MODIFIER)
CO	CARBON MONOXIDE (ANALYZER MODIFIER)
CO2	CARBON DIOXIDE (ANALYZER MODIFIER)
COMB	COMBUSTIBLES (ANALYZER MODIFIER)
COND	CONDUCTIVITY (ANALYZER MODIFIER)
DCL2	DECHLORINATION ANALYZER
DEN	DENSITY (ANALYZER MODIFIER)
DO	DISSOLVED OXYGEN (ANALYZER MODIFIER)
DP	DIFFERENTIAL PRESSURE
FL	FLUORIDE
H2S	HYDROGEN SULFIDE (ANALYZER MODIFIER)
HCL	HYDROGEN CHLORIDE (ANALYZER MODIFIER)
LEAK	LEAK DETECTION
LEL	LOWER EXPLOSION LIMIT
NH3	AMMONIA
NOX	NITROGEN OXIDE (ANALYZER MODIFIER)
O2	OXYGEN (ANALYZER MODIFIER)
ORP	OXIDATION REDUCTION POTENTIAL
PC	PARTICLE COUNTER
pH	HYDROGEN ION CONCENTRATION
SPM	SODIUM PERMANGANATE
SS	SUSPENDED SOLIDS (ANALYZER MODIFIER)
TCL2	TOTAL CHLORINE
TEMP	TEMPERATURE
TOC	TOTAL ORGANIC CARBON
TURB	TURBIDITY (ANALYZER MODIFIER)
UVT	ULTRAVIOLET TRANSMITTANCE

TYPES OF POWER SUPPLY

A	PLANT COMPRESSED AIR
IA	INSTRUMENTATION AIR
ES	ELECTRIC SUPPLY
NG	NATURAL GAS
HYD	HYDRAULIC

I/O TYPE

△ = DISCRETE IN ▲ = ANALOG IN

▽ = DISCRETE OUT ▼ = ANALOG OUT



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△					
△					
△					
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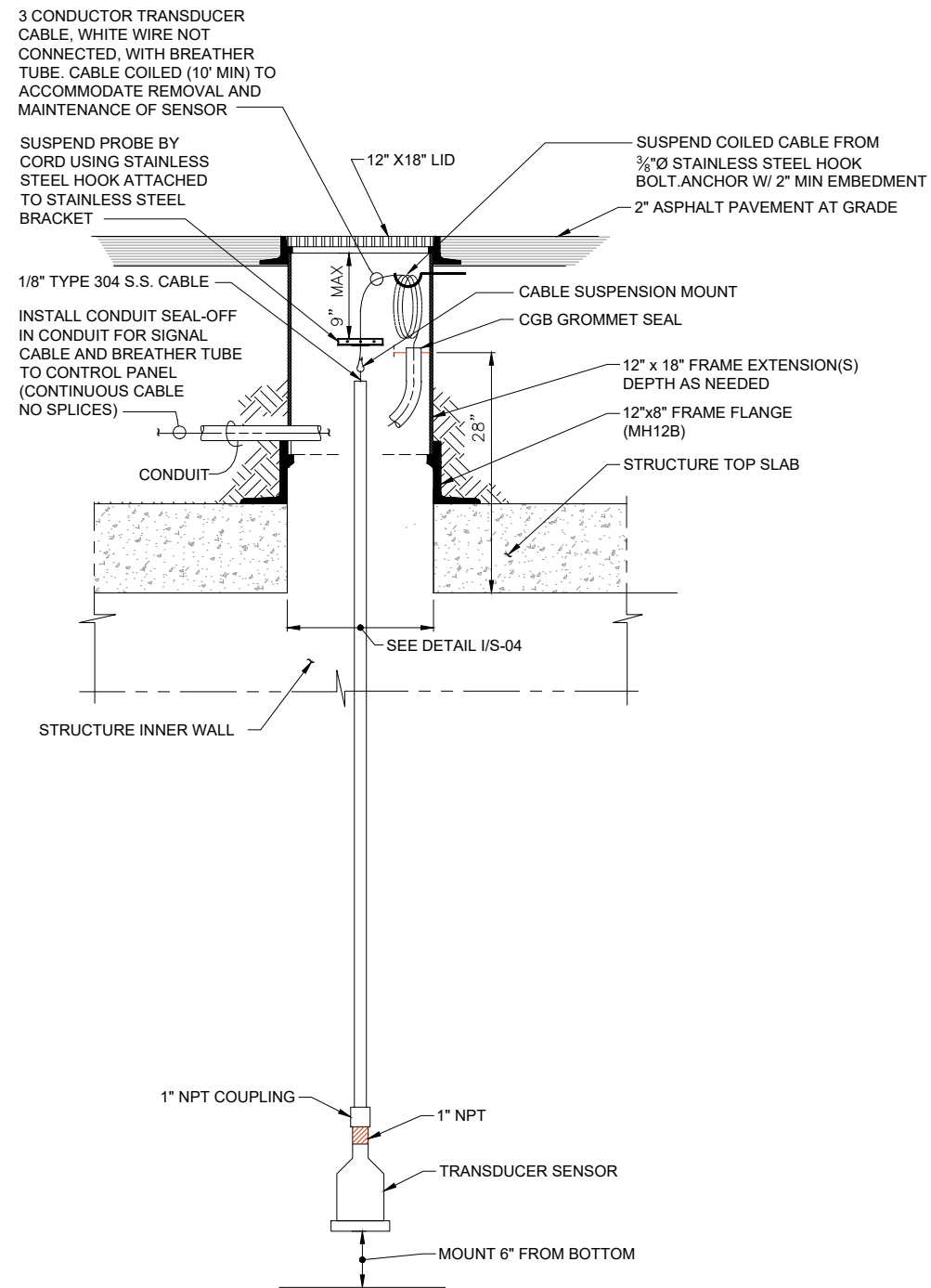
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 Checked: T. MORRIS
 Approved: K.L. MCGOWAN



KITSAP COUNTY PS 16/67 UPGRADES
INSTRUMENTATION SYMBOL LIST 2

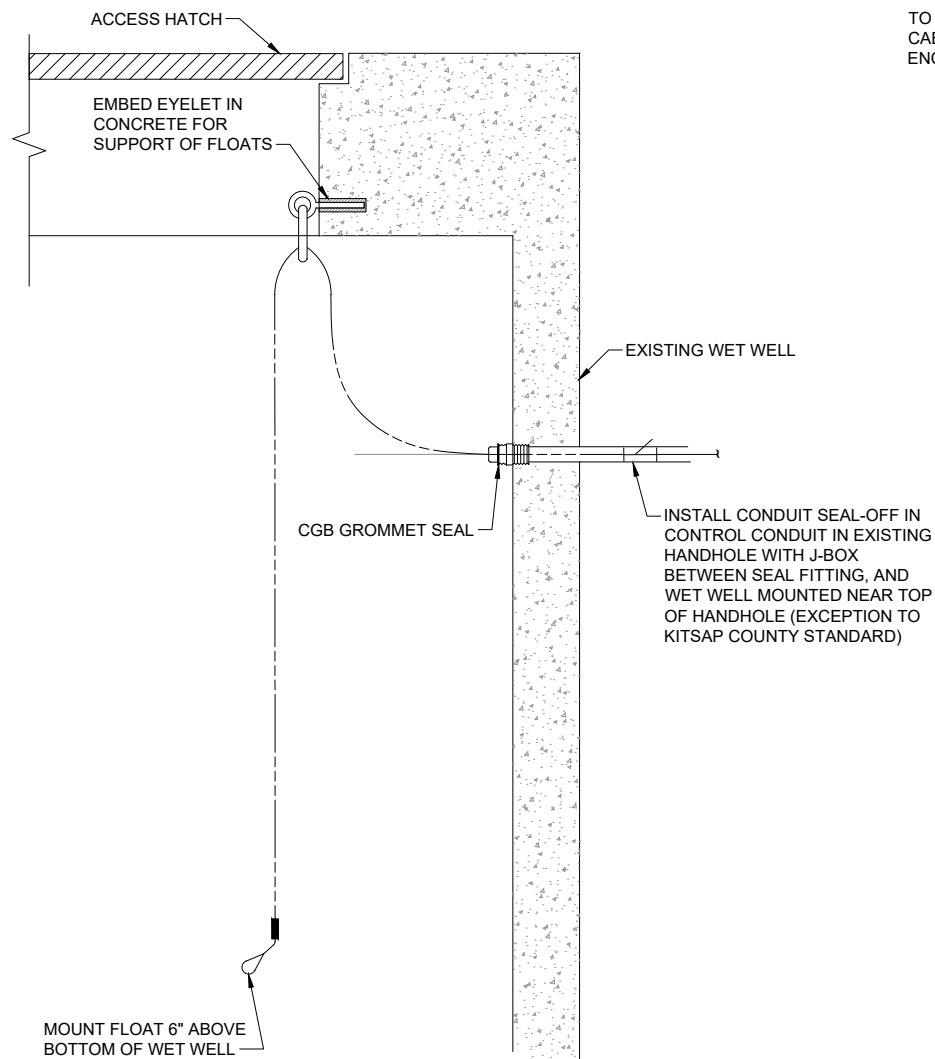
Drawing: Y-02
 Sheet: 90 Of 101
 File: 90-P13-10282_Y-02
 Date: February 2017

FILE NAME (UPDATED BY) PLOT DATE & TIME
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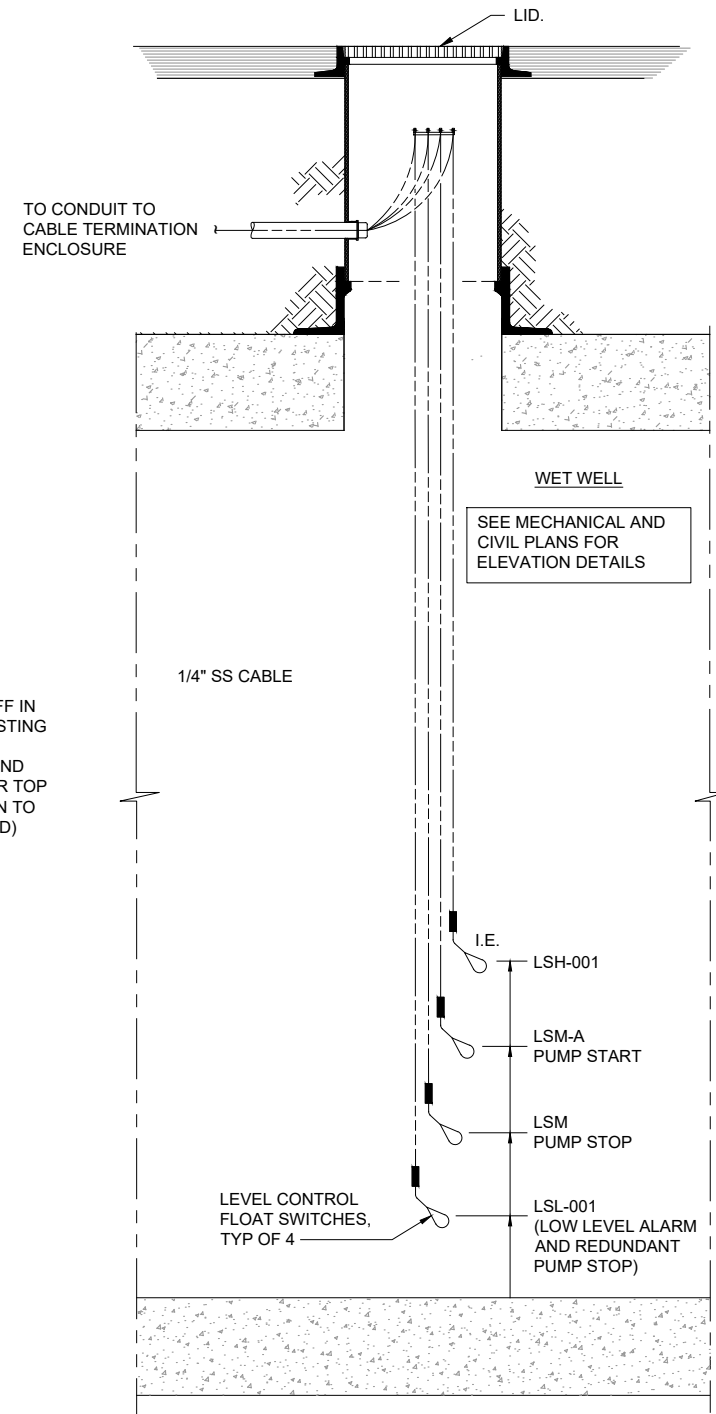
PRESSURE SENSING LEVEL PROBE INSTALLATION THROUGH STRUCTURE SLAB

DETAIL 1
NTS E-05



FLOOD SWITCH

DETAIL 2
NTS E-04



TYPICAL FLOAT SUPPORT

DETAIL 3
NTS E-05

PCL SETPOINTS	
HIGH ALARM	7.3'
LAG START	7.0'
LEAD START	6.5'
LOG STOP	5.5'
LEVEL CONTROL	4.5'
LEAD STOP	3.0'
LOW ALARM	2.5'

RECORD DRAWING

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HDR
HDR Engineering, Inc.

BHC CONSULTANTS
BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhcconsultants.com

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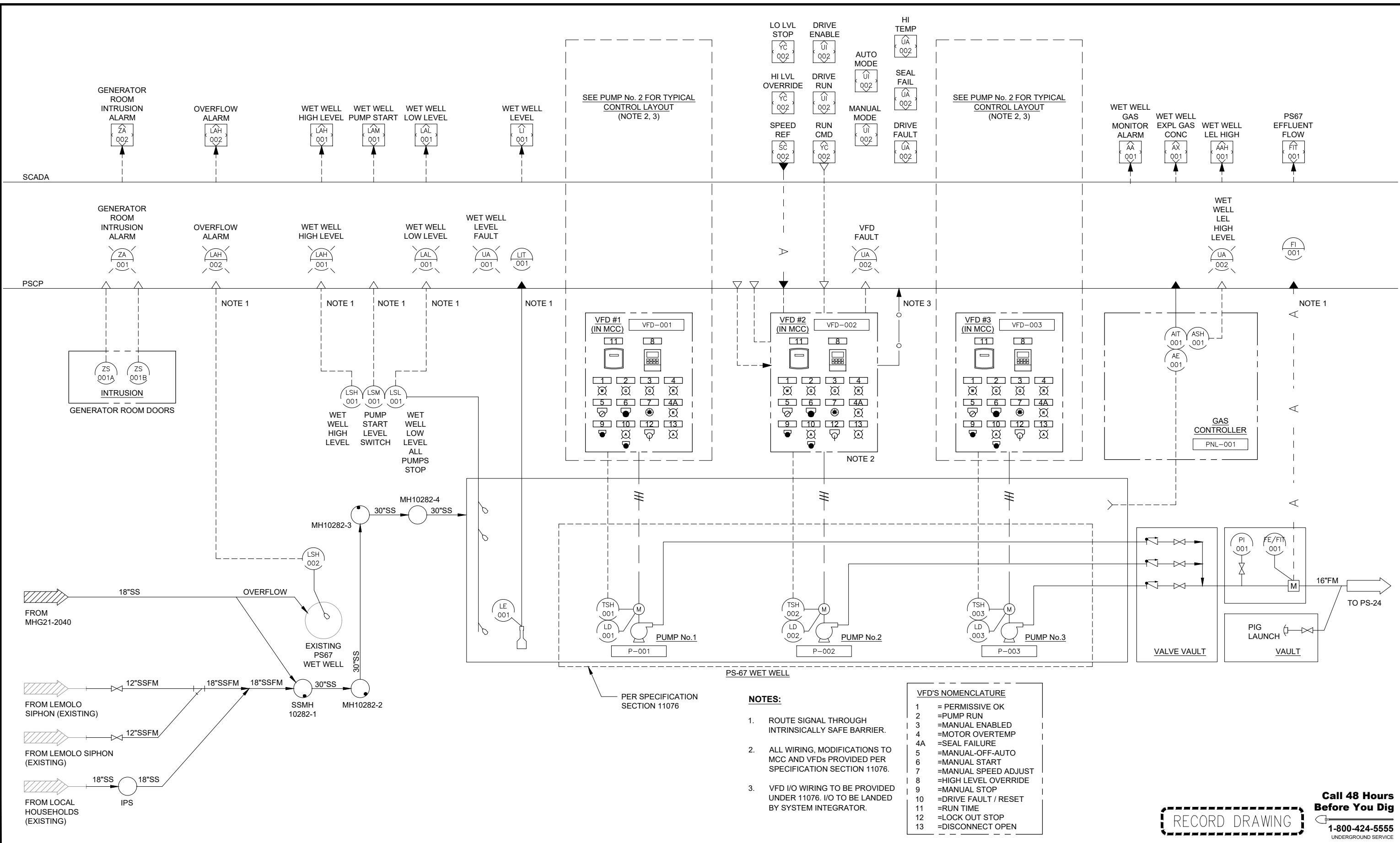
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Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
INSTRUMENTATION DETAILS

Drawing:	Y-03
Sheet:	91 Of 101
File:	91-P13-10282_Y-03
Date:	February 2017

FILE NAME (UPDATED BY): PLOT DATE & TIME
 APR 09 2017 07:15:40
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- NOTES:**
- ROUTE SIGNAL THROUGH INTRINSICALLY SAFE BARRIER.
 - ALL WIRING, MODIFICATIONS TO MCC AND VFDs PROVIDED PER SPECIFICATION SECTION 11076.
 - VFD I/O WIRING TO BE PROVIDED UNDER 11076. I/O TO BE LANDED BY SYSTEM INTEGRATOR.

VFD'S NOMENCLATURE

1	= PERMISSIVE OK
2	= PUMP RUN
3	= MANUAL ENABLED
4	= MOTOR OVERTEMP
4A	= SEAL FAILURE
5	= MANUAL-OFF-AUTO
6	= MANUAL START
7	= MANUAL SPEED ADJUST
8	= HIGH LEVEL OVERRIDE
9	= MANUAL STOP
10	= DRIVE FAULT / RESET
11	= RUN TIME
12	= LOCK OUT STOP
13	= DISCONNECT OPEN

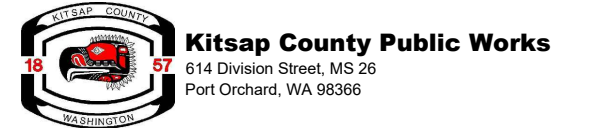
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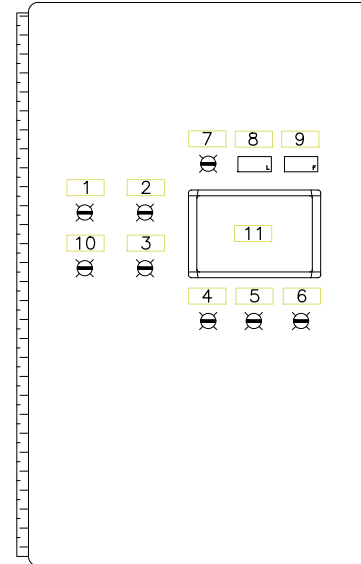
KITSAP COUNTY PS 16/67 UPGRADES
PS 67 P&ID
WET WELL AND VALVE VAULT

Drawing: **Y-04**
 Sheet: **92** Of **101**
 File: 92-P13-10282_Y-04
 Date: February 2017



EXISTING
TELEMETRY PANEL,
REUSE AS IS.

REUSE EXISTING ENCLOSURE. REPLACE OR
RESKIN ENCLOSURE DOOR. PAINT TO MATCH
EXISTING FINISH. SALVAGE EXISTING DOOR,
DEVICES TO OWNER.



DOOR LAYOUT SCHEDULE	
1	PLC FAULT
2	COMMUNICATION FAILURE
3	INTRUSION
4	WET WELL HIGH LEVEL
5	WET WELL LOW LEVEL
6	OVERFLOW LEVEL HIGH
7	LEVEL TRANSMITTER FAULT
8	WET WELL LEVEL
9	PUMP STATION DISCHARGED FLOW
10	WET WELL LEL HIGH LEVEL
11	OPERATOR INTERFACE TERMINAL

EXISTING PANEL

DETAIL 1
NTS

REPLACEMENT DOOR LAYOUT

DETAIL 1
NTS

FILE NAME (UPDATED BY) S:\CAD\KITSAP\COUNTY\12-10237-01 PIPE DESIGN\DWG\12-10237-01PL_PP-SU.DWG (R.S) APR 09 2013 07:13:40
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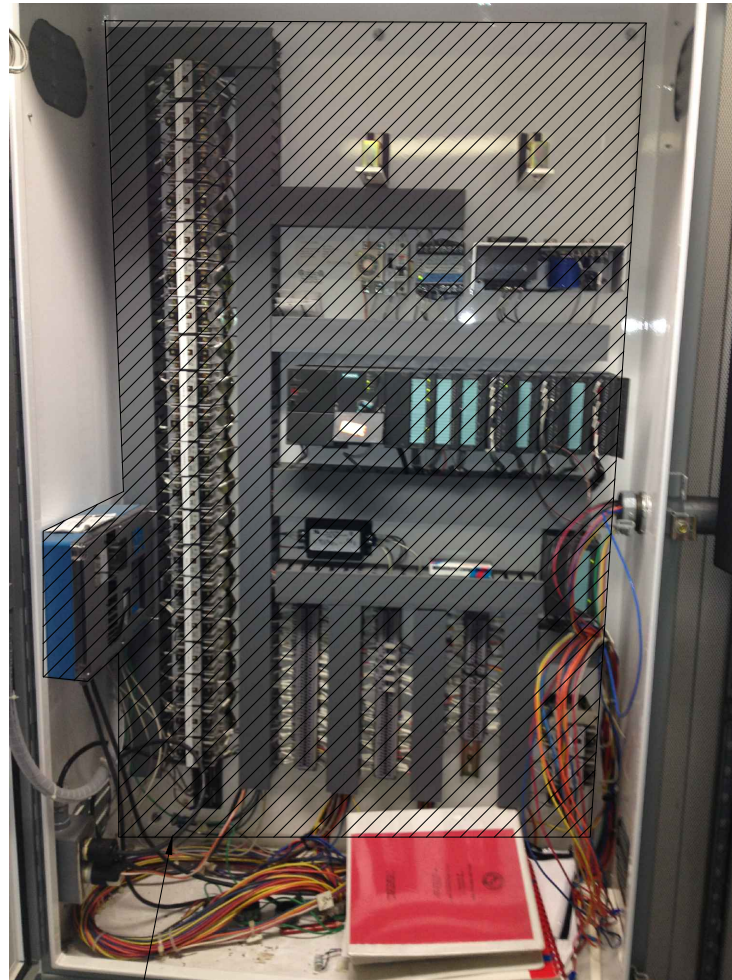
KITSAP COUNTY PS 16/67 UPGRADES

PS 67 CONTROL PANEL ELEVATION

Drawing: **Y-05**
Sheet: **93** Of **101**
File: 93-P13-10282_Y-05
Date: February 2017



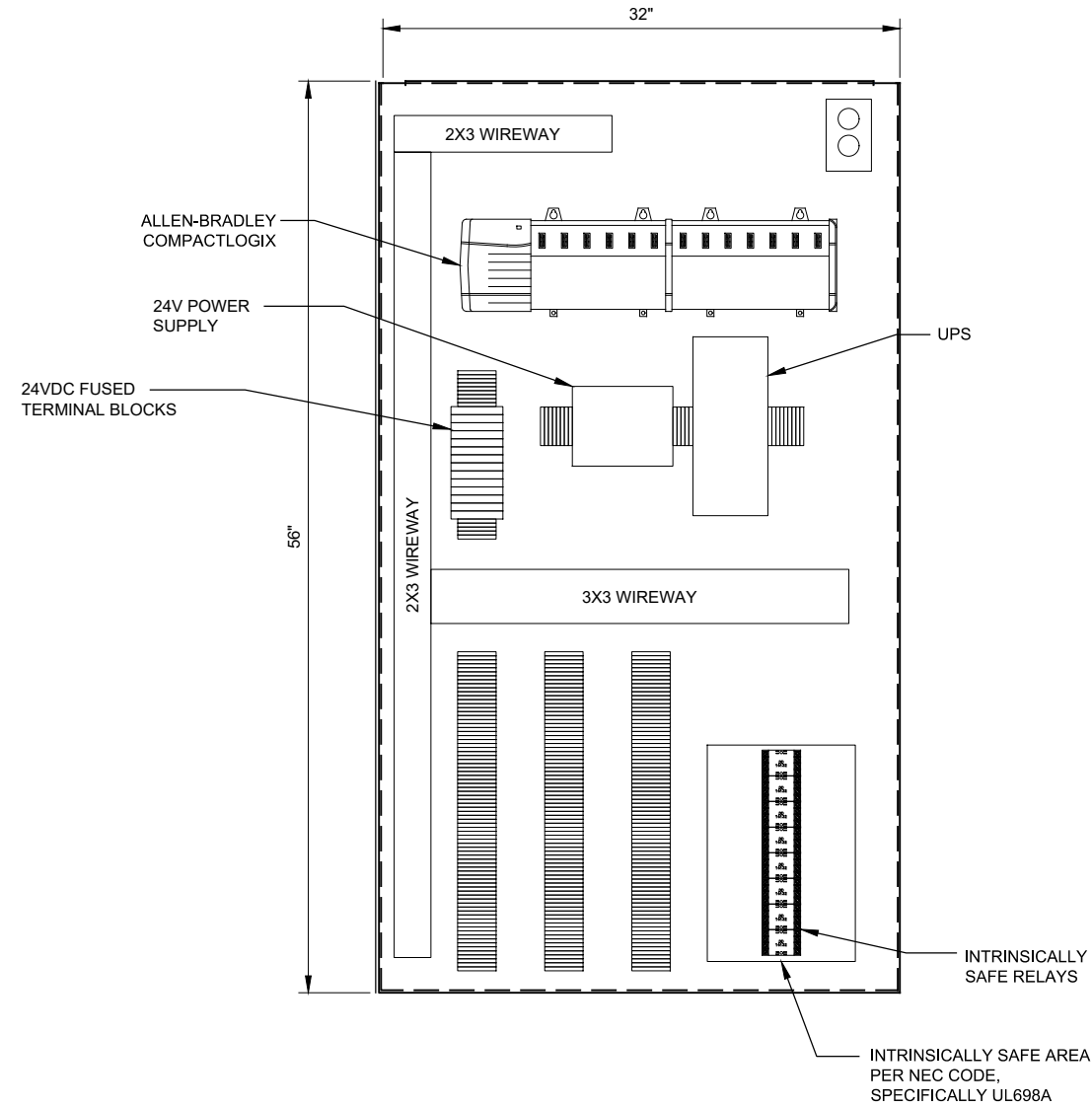
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HATCHING INDICATES DEVICES TO BE REMOVED AND REPLACE, SEE NEW BACK PANEL LAYOUT ON THIS SHEET.

EXISTING BACK PANEL

DETAIL 1
NTS



NEW BACK PANEL LAYOUT

DETAIL 2
NTS

FILE NAME (UPDATED BY) S:\CAD\KITSA\COUNTY\12-10237-01 PIPE DESIGN\DWG\F12-10237-01PL_PP-SU.DWG (R.S) APR 09 2013 07:13:40
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BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
206.505.3400
206.505.3406 (fax)
www.bhiconsultants.com

Designed: B.M. JOHNSTON
Drawn: E.F. PILAPIL
Checked: T. MORRIS
Approved: K.L. MCGOWAN

Scale:
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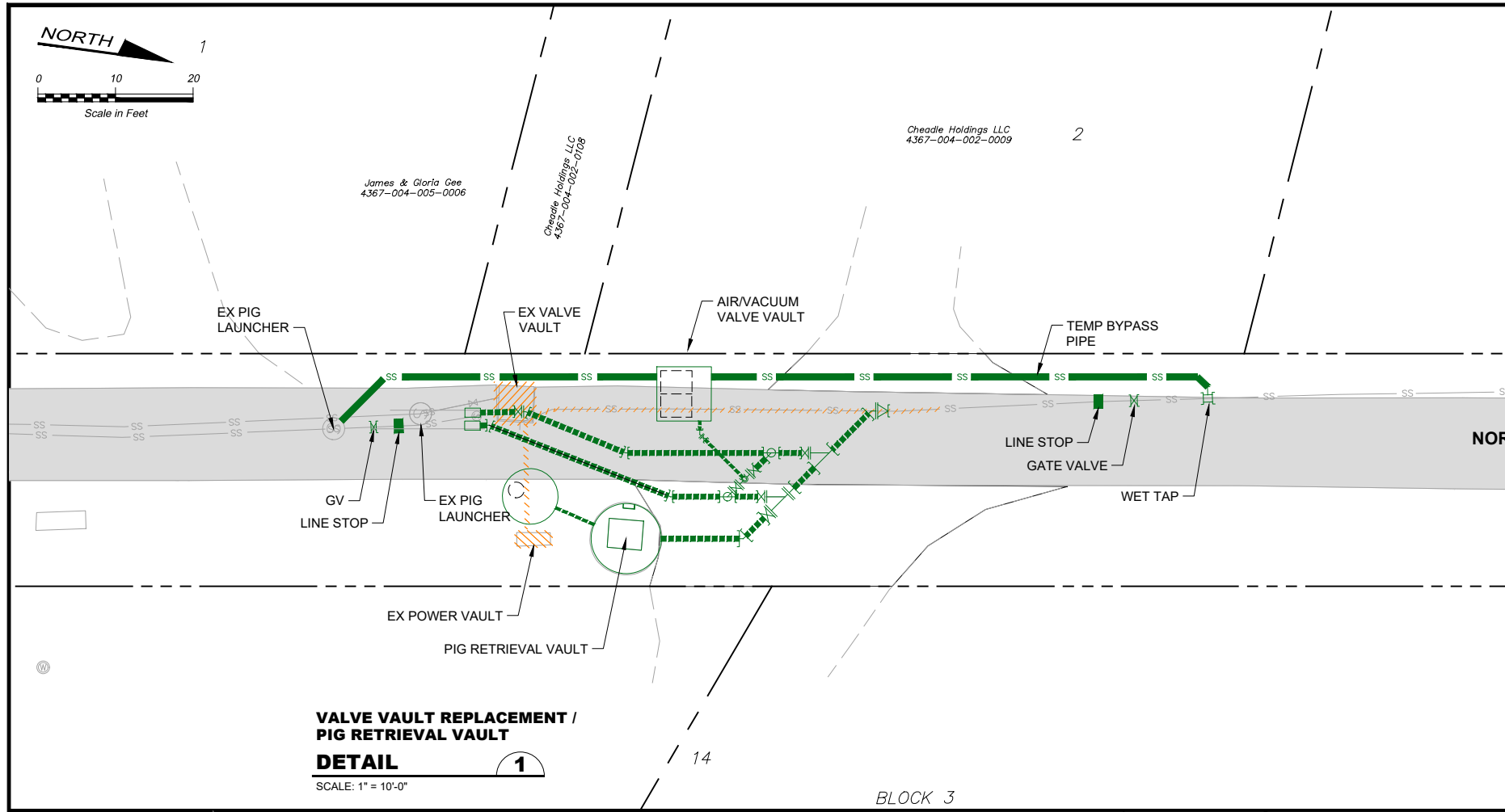
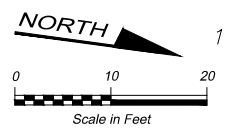
Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY PS 16/67 UPGRADES
PS 67 CONTROL PANEL LAYOUT

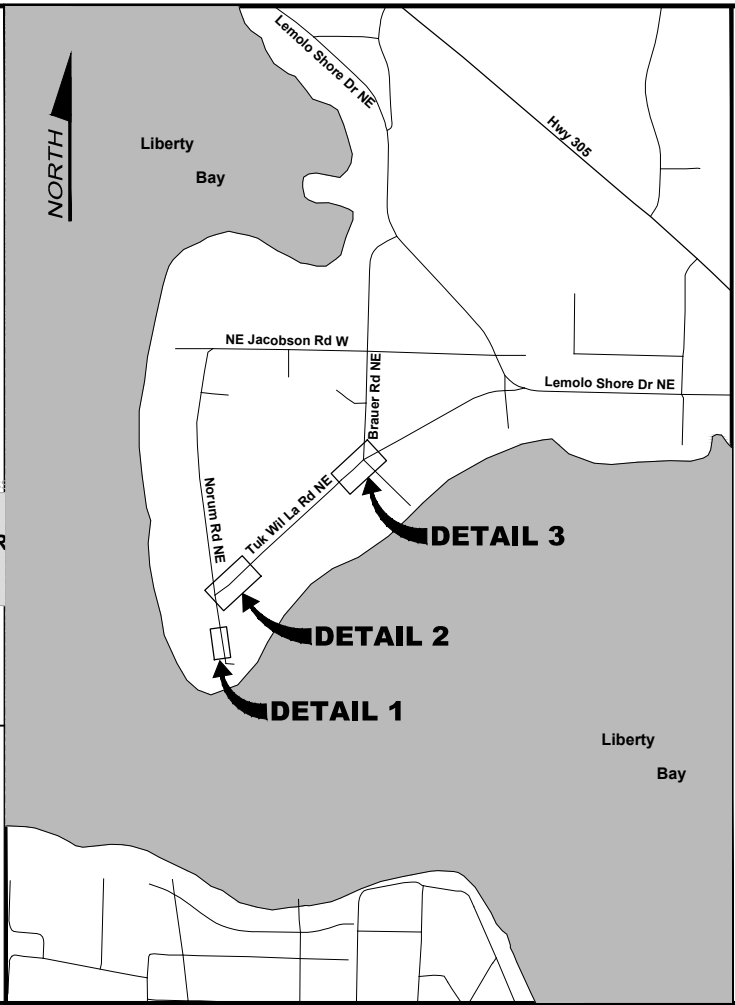
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RECORD DRAWING

Drawing: **Y-06**
Sheet: **94** Of **101**
File: 94-P13-10282_Y-06
Date: February 2017



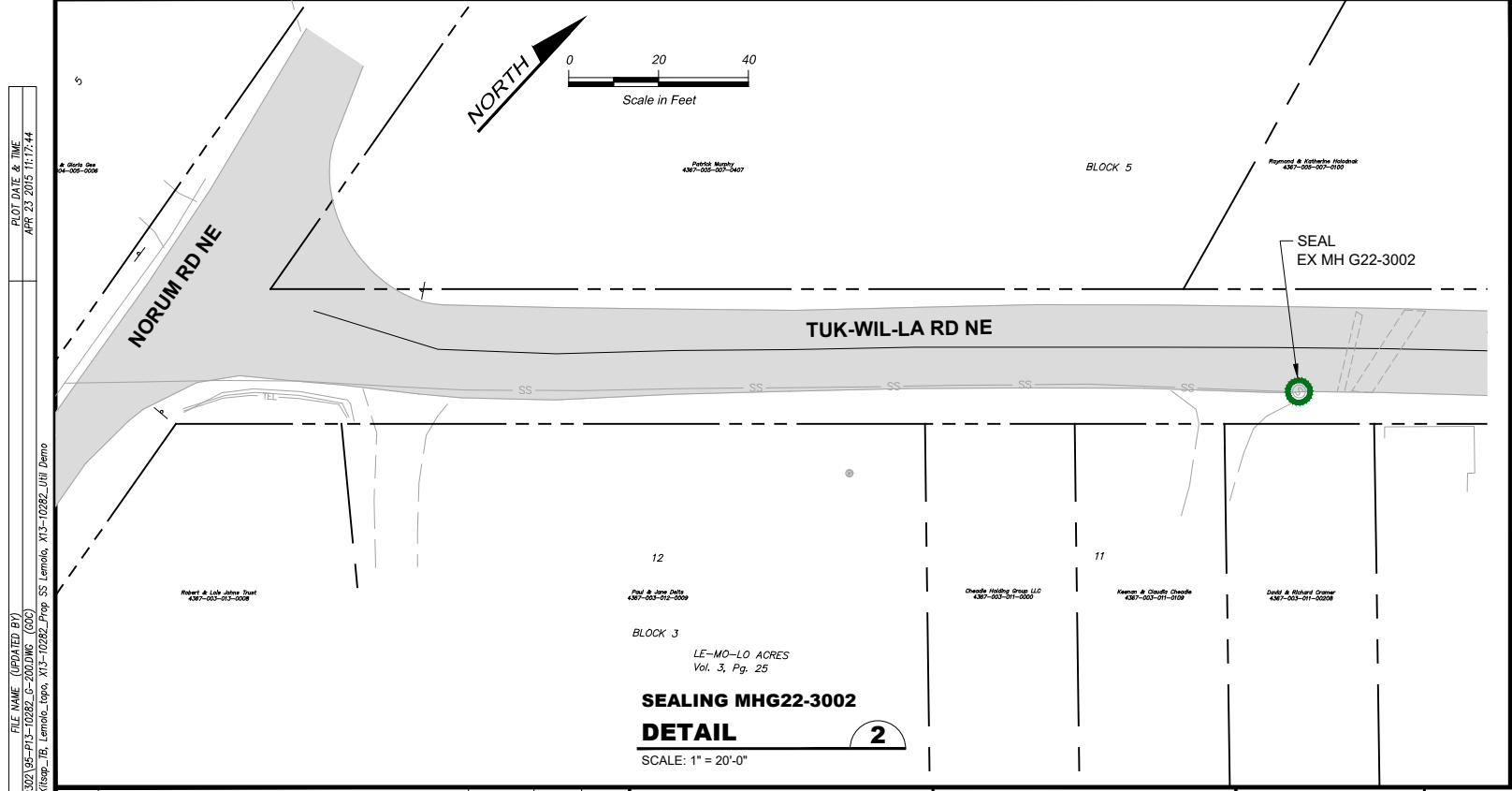
**VALVE VAULT REPLACEMENT / PIG RETRIEVAL VAULT
DETAIL 1**
SCALE: 1" = 10'-0"



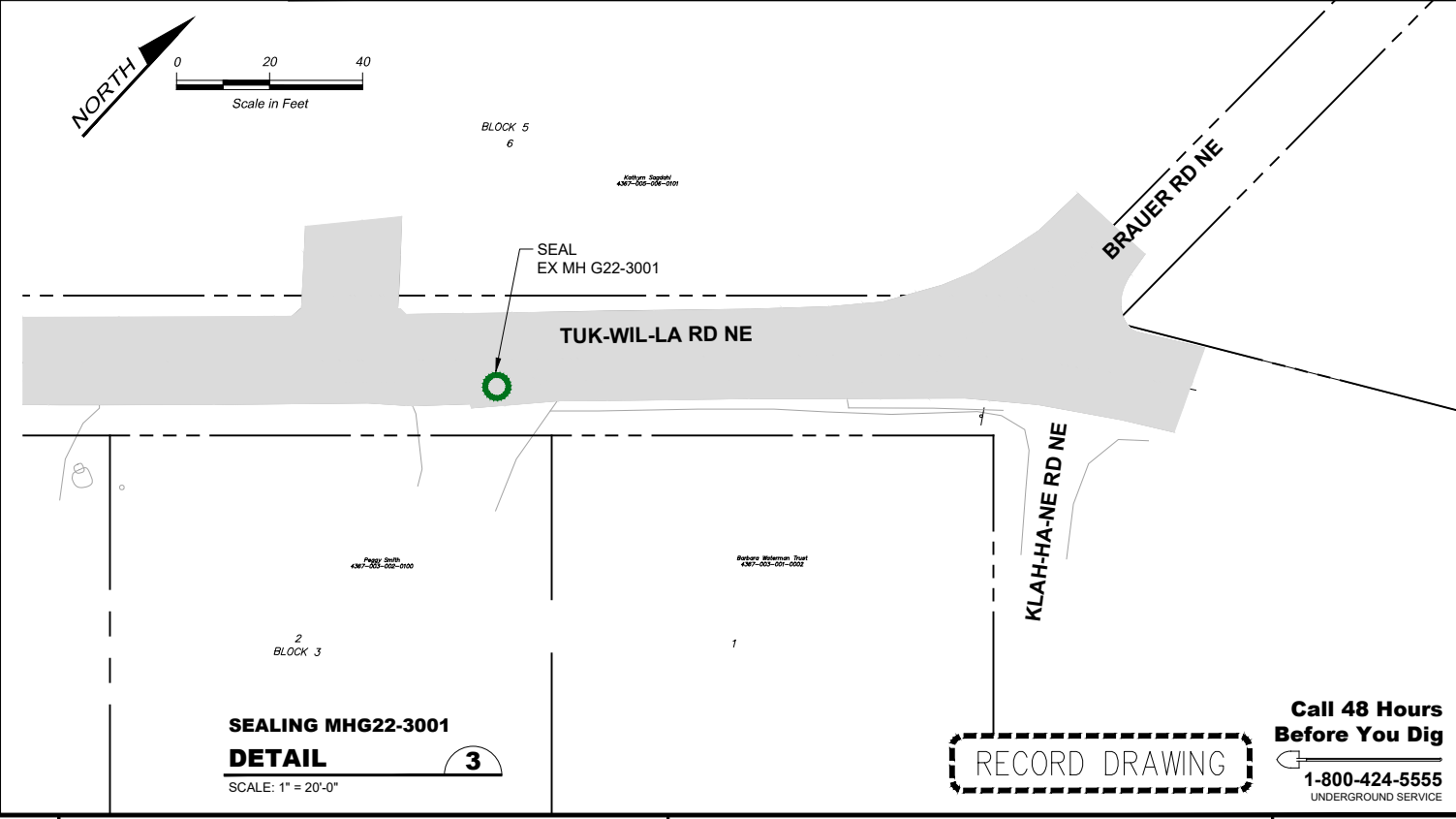
- LEGEND:**
- PROPOSED SANITARY SEWER
 - TEMPORARY BYPASS PIPE
 - EXISTING SANITARY SEWER
 - SANITARY SEWER TO BE REMOVED

NOTES:

THIS SHEET IS AN OVERVIEW OF THE LEMOLO IMPROVEMENTS AND IS SCHEMATIC IN NATURE. CONTRACTOR SHALL NOT RELY UPON THE LIMITS OR SCOPE OF IMPROVEMENTS AS SHOWN ON THIS SHEET AS THEY MAY VARY FROM THE SHEETS THAT SHOW AND DESCRIBE THE ACTUAL WORK THAT MUST BE COMPLETED.



**SEALING MHG22-3002
DETAIL 2**
SCALE: 1" = 20'-0"



**SEALING MHG22-3001
DETAIL 3**
SCALE: 1" = 20'-0"

FILE NAME (UPDATED BY) [REDACTED]
 PLOT DATE & TIME [REDACTED]
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 XREFS: Disclaim, Fisher, Kitsap, Lemolo, X13-10282_Pre, SS, Lemolo, X13-10282_UH, Demo

RECORD DRAWING

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No.	Revision	Date	By	App'd



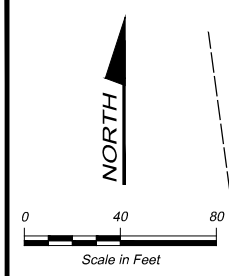
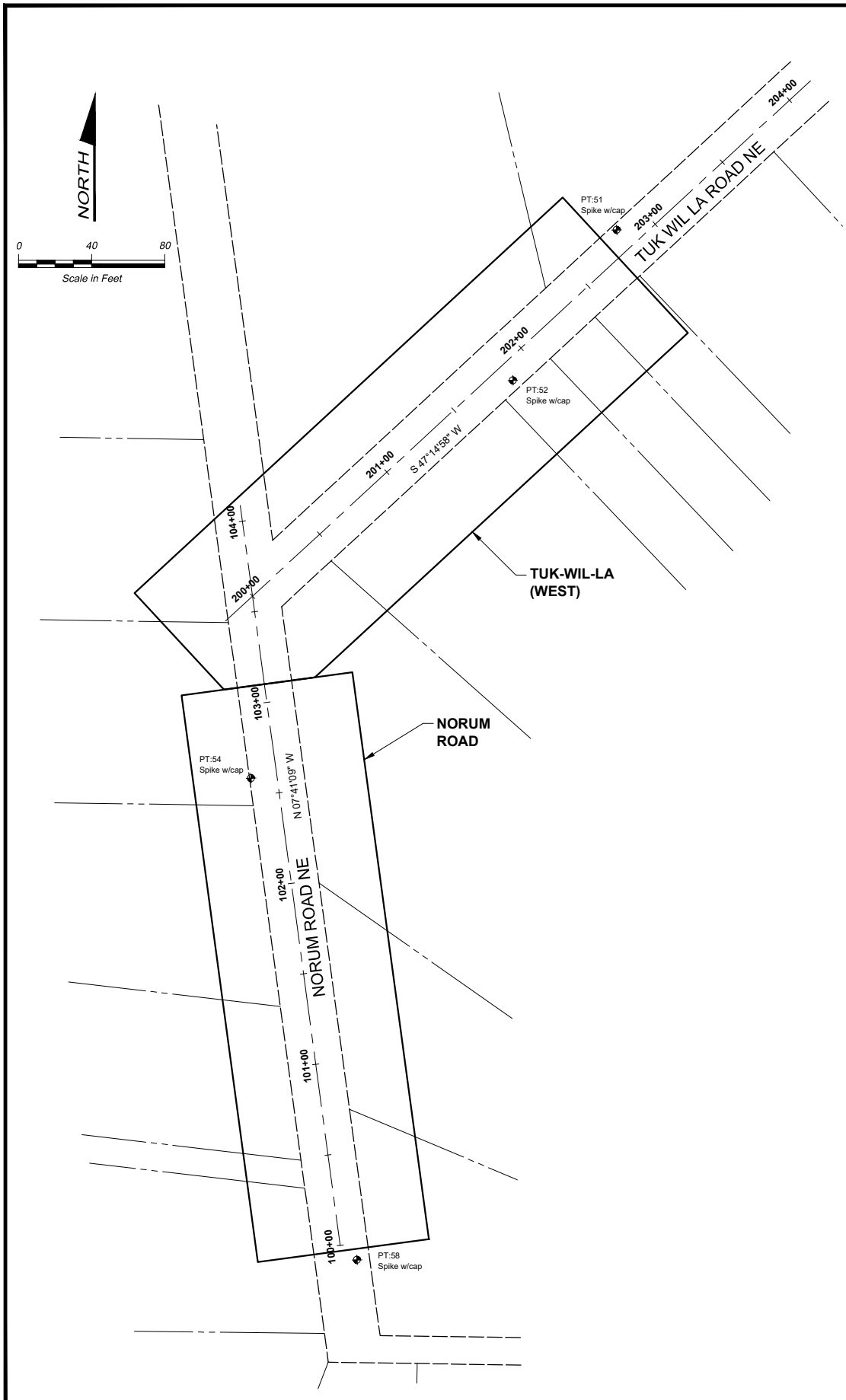
Designed: T. Fisher, P.E.
 Drawn: P. Simon
 Checked: R. Dorn, P.E.
 Approved: M. Harper, P.E.



Kitsap County Public Works
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**KITSAP COUNTY PS 16/67 UPGRADES
PROJECT OVERVIEW
LEMOLO IMPROVEMENTS**

Drawing: **G-200**
 Sheet: **95** Of **101**
 File: 95-P13-10282_G-200
 Date: February 2017



PROJECT OVERVIEW KEY (DRAWING SHEET REFERENCES)

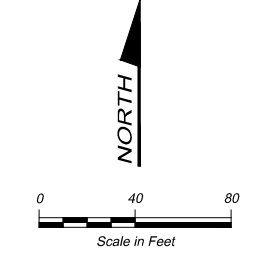
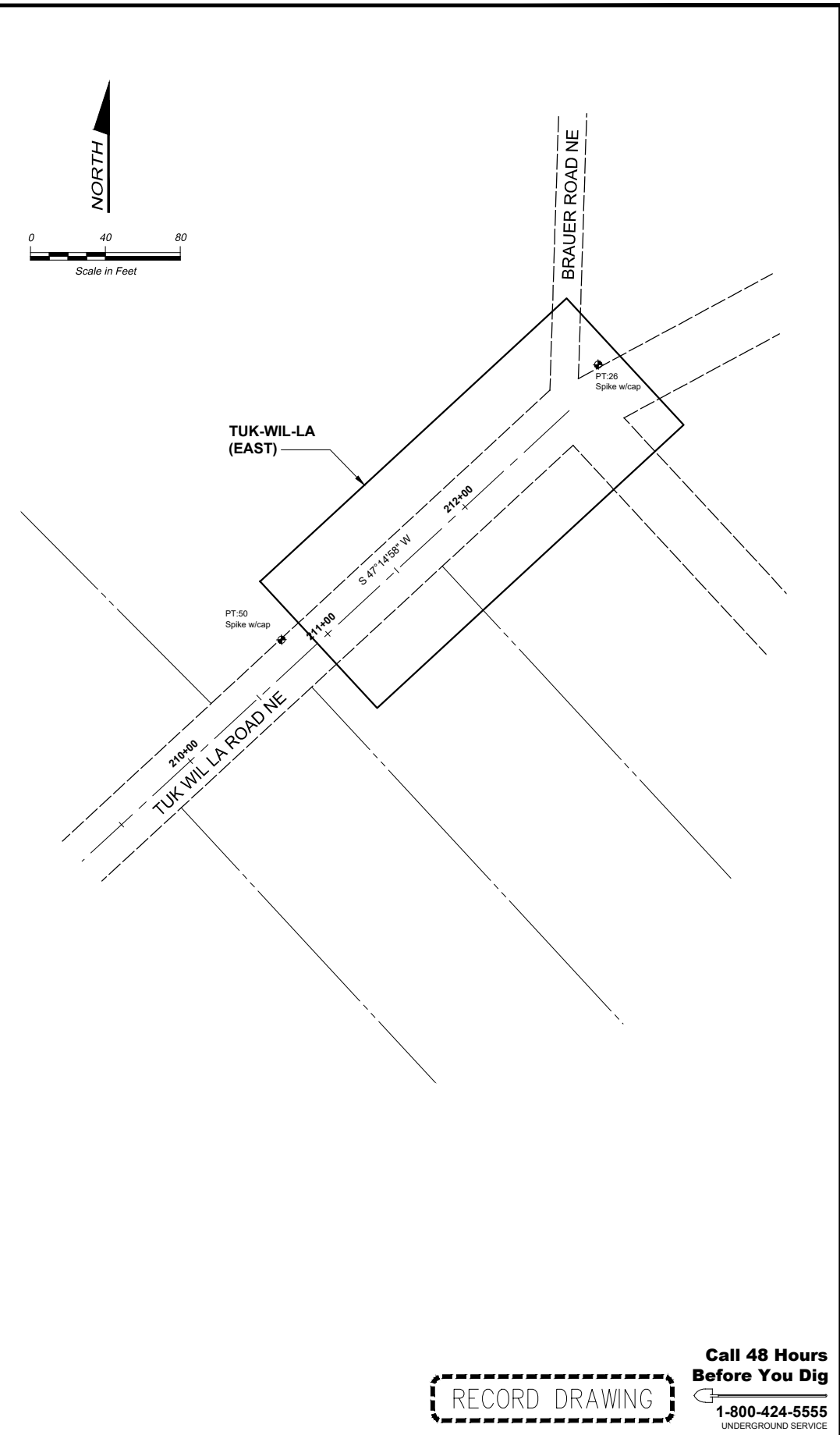
NORUM RD	TUK-WIL-LA (WEST)	TUK-WIL-LA (EAST)
D-201	C-06	C-06
C-05		
C-08		

SURVEY CONTROL AND PROJECT ALIGNMENT DATA

CONTROL POINT NO.	STATION I.D.	NORTH	EAST	ELEVATION	DESC.
26		264816.9987	1199952.0434	35.94	SPIKE CAP
50		264670.0871	1199782.8642	35.35	SPIKE CAP
51		264126.8880	1199199.0955	29.89	SPIKE CAP
52		264044.5627	1199142.2932	27.20	SPIKE CAP
54		263826.7950	1198999.0117	30.22	SPIKE CAP
58		263563.0968	1199056.9961	27.66	SPIKE CAP
	100+00	263571.1572	1199047.8462		BEGIN STA.
	104+00	263967.5638	1198994.3497		END STA.
	200+00	263926.5342	1198999.8868		STA. INTER.
	204+00	264198.0574	1199293.6132		
	210+00	264605.3421	1199734.2027		
	212+00	264741.1037	1199881.0659		END STA.

- SURVEY NOTES**
- HORIZONTAL CONTROL DATUM IS NAD83(91) BASED ON GPS OBSERVATIONS WITH CROSS CHECKS TO KITSAP COUNTY SURVEY CONTROL.
 - VERTICAL CONTROL DATUM IS NGVD 1929 ESTABLISHED BY GPS OBSERVATIONS WITH CROSS CHECKS TO KITSAP COUNTY SURVEY CONTROL.

- LEGEND**
- SURVEY CONTROL POINT
 - SPIKE W/CAP SPIKE NAIL WITH RED LICENSING CAP STAMPED "CONTROL 20795"
 - SHEET OUTLINE



FILE NAME (UPDATED BY) PLOT DATE & TIME
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 XREFS: Kitsap_IB

No.	Revision	Date	By	App'd



Designed: _____
 Drawn: _____
 Checked: _____
 Approved: _____

Scale:
 1" = 40'-0"
 One Inch At Full Scale
 If Not One Inch Scale Accordingly



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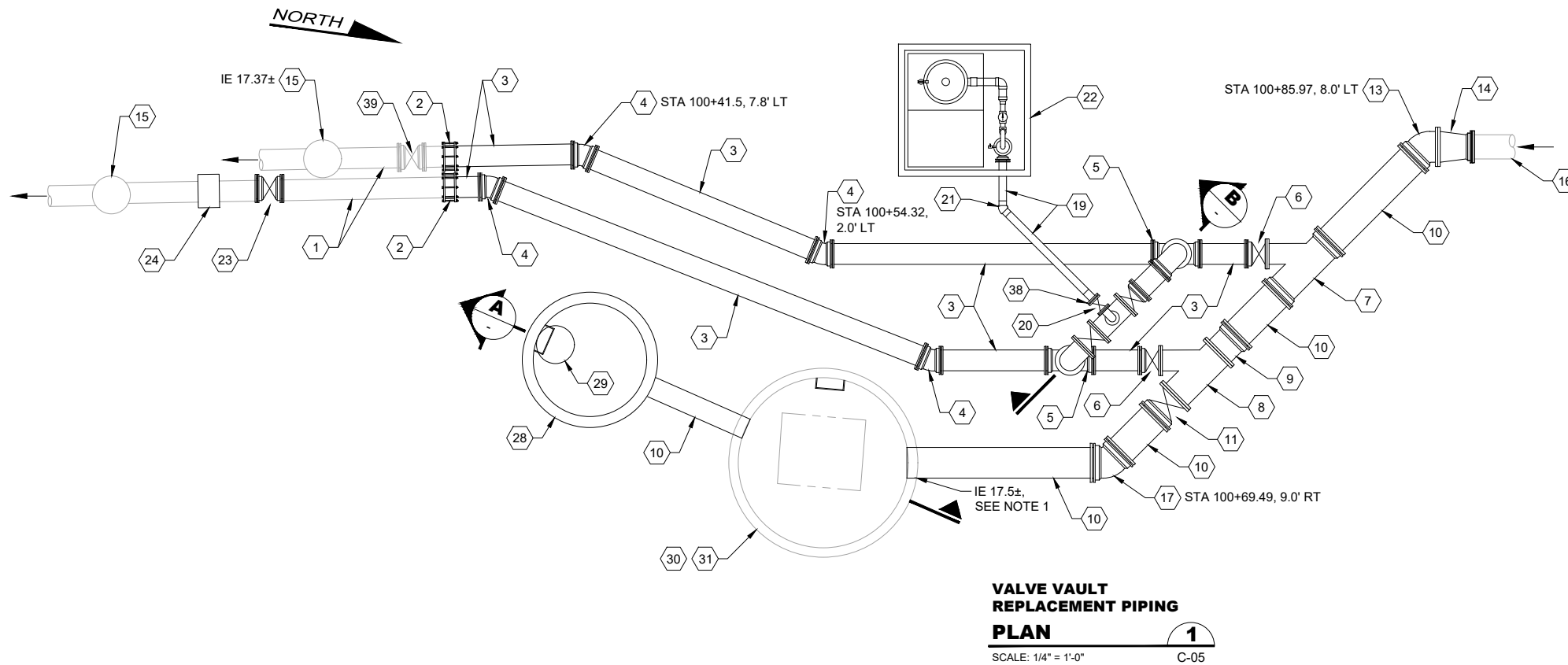
RECORD DRAWING

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KITSAP COUNTY PS 16/67 UPGRADES

SURVEY CONTROL
LEMOLO IMPROVEMENTS

Drawing: **G-201**
 Sheet: **96** Of **101**
 File: 96-P13-10282_G-201
 Date: February 2017



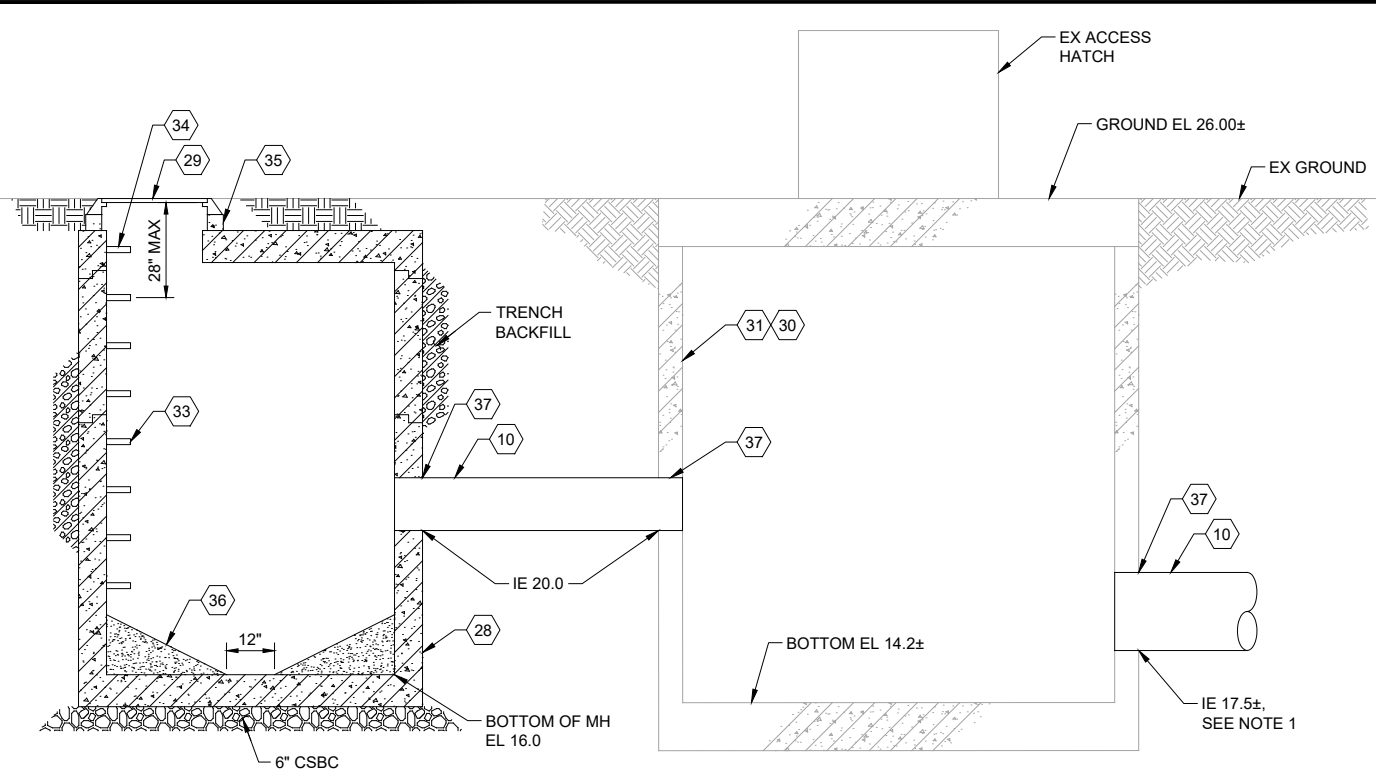
**VALVE VAULT
REPLACEMENT PIPING
PLAN**
SCALE: 1/4" = 1'-0"
1
C-05

NOTES:

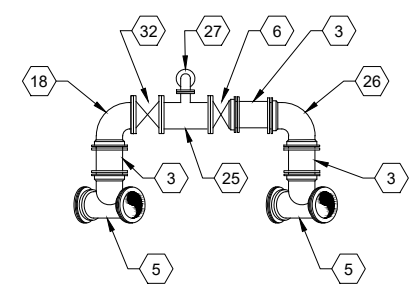
1. POTHOLE EX SEWER TO VERIFY DEPTH AND HORIZONTAL LOCATION PRIOR TO INSTALLING TEMPORARY BYPASS. PROVIDE THIS INFORMATION TO ENGINEER FOR VERIFICATION OF DESIGN.
2. RESTRAIN ALL MECHANICAL JOINTS AND PUSH ON JOINTS.
3. DUCTILE IRON FITTINGS SHALL CONFORM TO SYSTEM 3 IN SECTION 15060 OF THE SPECIFICATIONS.

MATERIALS LIST:

- | | |
|---|---|
| 1 EX 12" PIPE, SEE NOTE 1 | 23 12" GV, MJ xMJ, SEE BYPASS PLAN ON DWG C-202 |
| 2 12" COUPLING | 24 12" WET TAP, SEE BYPASS PLAN ON DWG C-202 |
| 3 12" C900 PVC PIPE | 25 12" x 4" DI TEE, FL x FL |
| 4 12" DI 22.5° BEND, MJ x MJ | 26 12" DI 90° BEND, MJ x MJ |
| 5 12" DI VERTICAL TEE, MJ x MJ | 27 4" DI 90° BEND, FL x FL |
| 6 12" GV, FL x MJ | 28 72"Ø FLAT TOP MH |
| 7 18" x 12" DI WYE, MJ x FL | 29 MH FRAME AND COVER, PER DETAIL 2/C-02 |
| 8 18" x 12" DI WYE, FL x FL | 30 18" PIG RETRIEVER VAULT |
| 9 18" ADAPTOR, FL x MJ | 31 EX CONCRETE VAULT, 9' ID |
| 10 18" C905 PVC PIPE | 32 12" GV, FL x FL |
| 11 18" GV, FL x MJ | 33 POLYPROPYLENE SAFETY STEPS AT 12" OC |
| 12 12" DI 22.5° BEND, MJ x FL | 34 HAND HOLD PER DETAIL 1/C-02 |
| 13 18" DI 45° BEND, FL x MJ | 35 MH GRADE RING PER DETAIL 1/C-02 |
| 14 18" x 14" DI REDUCER, FL x FL | 36 GROUT BOTTOM OF MH AT 2H:1V SLOPE |
| 15 EX 12" PIG LAUNCH | 37 BOOT OR COLLAR |
| 16 EX 14" PIPE, SEE NOTE 1 | 38 4" HDPE FLANGE ADAPTOR WITH BACKUP RING |
| 17 18" DI 45° BEND, MJ x MJ | 39 EX 12" GV |
| 18 12" DI 90° BEND, FL x MJ | |
| 19 4" SDR 11 IPS HDPE PIPE | |
| 20 4" GV, FL x FL | |
| 21 4" SDR 11 IPS HDPE 45° BEND | |
| 22 AIR/VACUUM VALVE ASSEMBLY, SEE DETAIL 5/C-04 | |



**PIG RETRIEVER VAULT
SECTION**
SCALE: 1/2" = 1'-0"
A



**VALVE VAULT
REPLACEMENT PIPING
SECTION**
SCALE: 1/4" = 1'-0"
B

FILE NAME (UPDATED BY) PLOT DATE & TIME
 C:\P\WORKING\SEA\00950325\98A-P13-10282_C-201A.DWG (602) DEC 16 2016 15:10:09
 XREFS: Disclaimer, Fisher, Kitsap, IB

No.	Revision	Date	By	App'd

HDR
HDR Engineering, Inc.

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Drawn: P. Simon
Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

Scale:
As Shown
One Inch At Full Scale
If Not One Inch Scale Accordingly



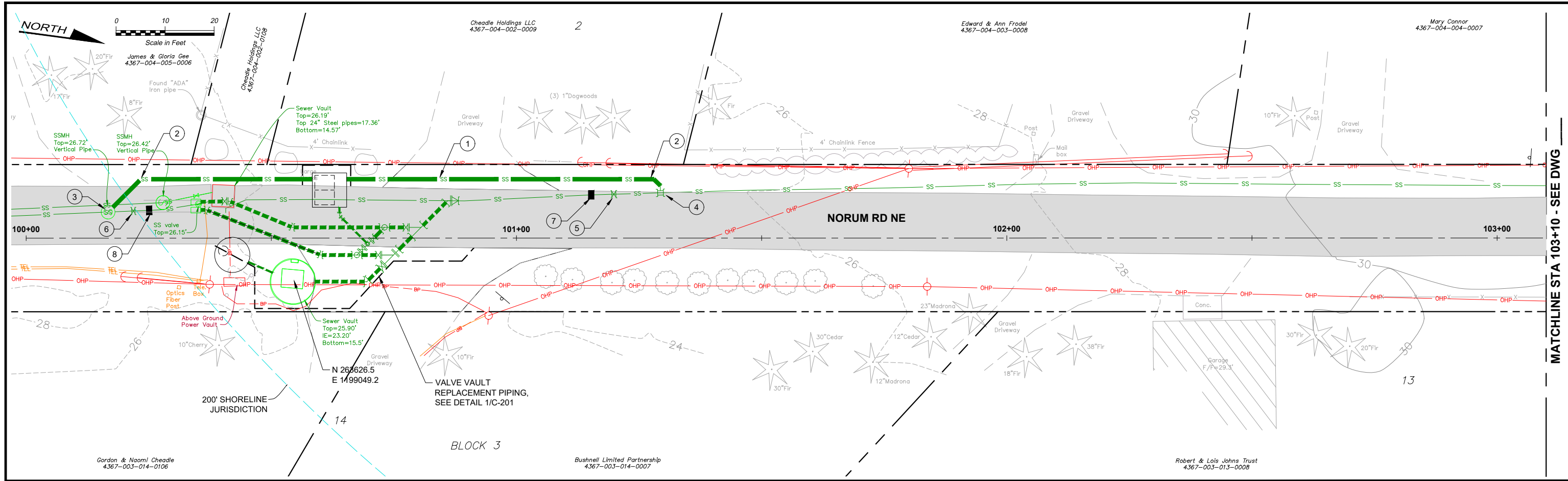
Kitsap County Public Works
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KITSAP COUNTY PS 16/67 UPGRADES
**LEMOLO IMPROVEMENTS
CIVIL AND SITE DETAILS**

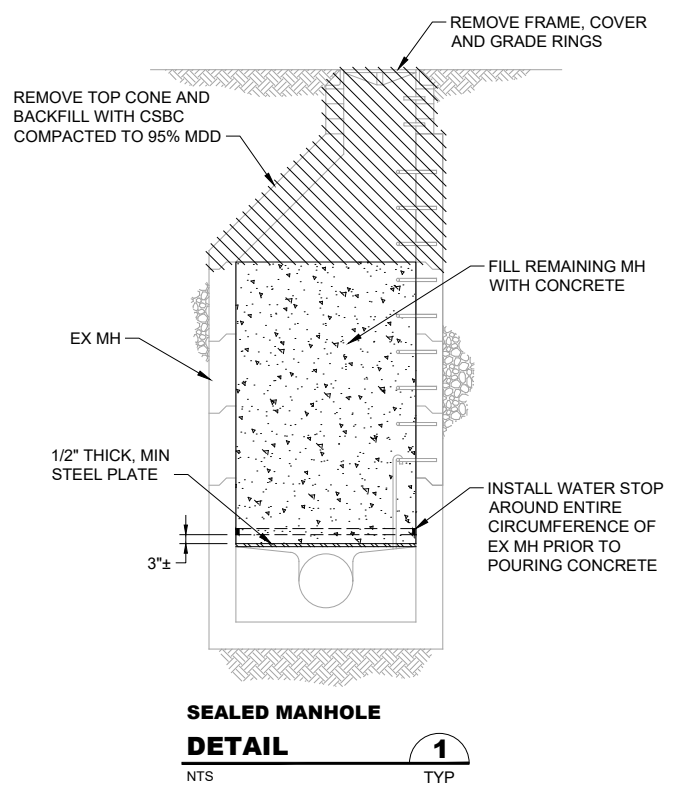
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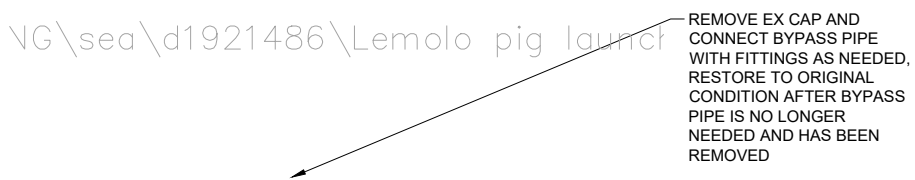
Drawing: **C-201**
Sheet: **98** Of **101**
File: 98A-P13-10282_C-201
Date: February 2017



MATCHLINE STA 103+10 - SEE DWG



**SEALED MANHOLE
DETAIL**
NTS
1
TYP



**TEMPORARY BYPASS PIPE
CONNECTION TO 12" PIG LAUNCH
DETAIL**
NTS
2

CONSTRUCTION NOTES:

- 1 TEMPORARY 12" HDPE SDR 21 SEWER BYPASS PIPE, SEE NOTE 1 AND 5.
- 2 12" HDPE 45° BEND
- 3 CONNECT TEMPORARY BYPASS PIPE TO EX 12" PIG LAUNCH, SEE DETAIL 2/-
- 4 WET TAP EX. 14" SS WITH 12" TAP, STA 101 + 30±
SUPPLY FITTINGS AS NEEDED TO BRING PIPE TO SURFACE
- 5 WET TAP EX. 14" SS AND INSTALL LINE STOP, STA 101+20±
- 6 WET TAP EX. 12" SS AND INSTALL LINE STOP, STA 100+22±
- 7 CUT-IN 14" GV AFTER TEMPORARY BYPASS PIPE IS ACTIVATED. CLOSE GATE VALVE UNTIL TEMPORARY BYPASS PIPE IS NO LONGER NEEDED. STA 101+15±
- 8 CUT-IN 12" GV AFTER TEMPORARY BYPASS PIPE IS ACTIVATED. CLOSE GATE VALVE UNTIL TEMPORARY BYPASS PIPE IS NO LONGER NEEDED. STA 100+27±

NOTES:

1. DO NOT DIVERT FLOW TO TEMP. BYPASS PIPE UNTIL MH G22-3001 AND MH G22-3002 HAVE BEEN SEALED.
2. INSTALL LINE STOP ON EX. 14" SS TO DIVERT FLOW PRIOR TO INSTALLING LINE STOP ON EX. 12" SS.
3. AFTER VALVE VAULT REPLACEMENT PIPING HAS BEEN CONSTRUCTED AND SUCCESSFULLY CLEANED AND TESTED, DIVERT FLOW BACK INTO THE SEWER SYSTEM, DISMANTLE AND REMOVE THE TEMPORARY BYPASS PIPE.
4. RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER.
5. BURY TEMPORARY BYPASS PIPE AT DRIVEWAY AND IN ALL AREAS SUBJECT TO VEHICULAR TRAFFIC.

RECORD DRAWING

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UNDERGROUND SERVICE

FILE NAME (UPDATED BY) PLOT DATE & TIME
C:\PWORKING\SEA\00650325\99-P13-10282_C-202.DWG (GOC) DEC 09 2016 07:42:01
VP:FS:Disclaimer, Fisher, Kitsap, Lemolo, Lemo, X13-10282_Align-Proj, X13-10282_Trap_SS Lemolo

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Drawn: P. Simon
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Approved: M. Harper, P.E.

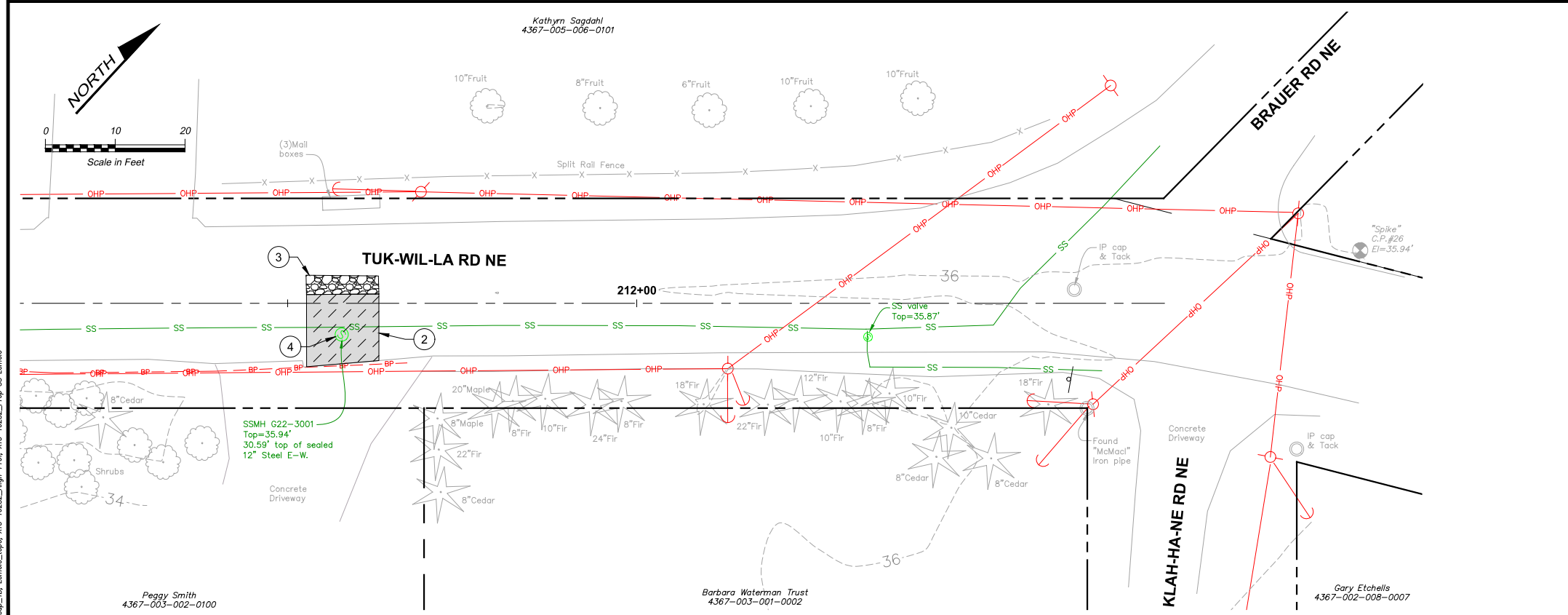
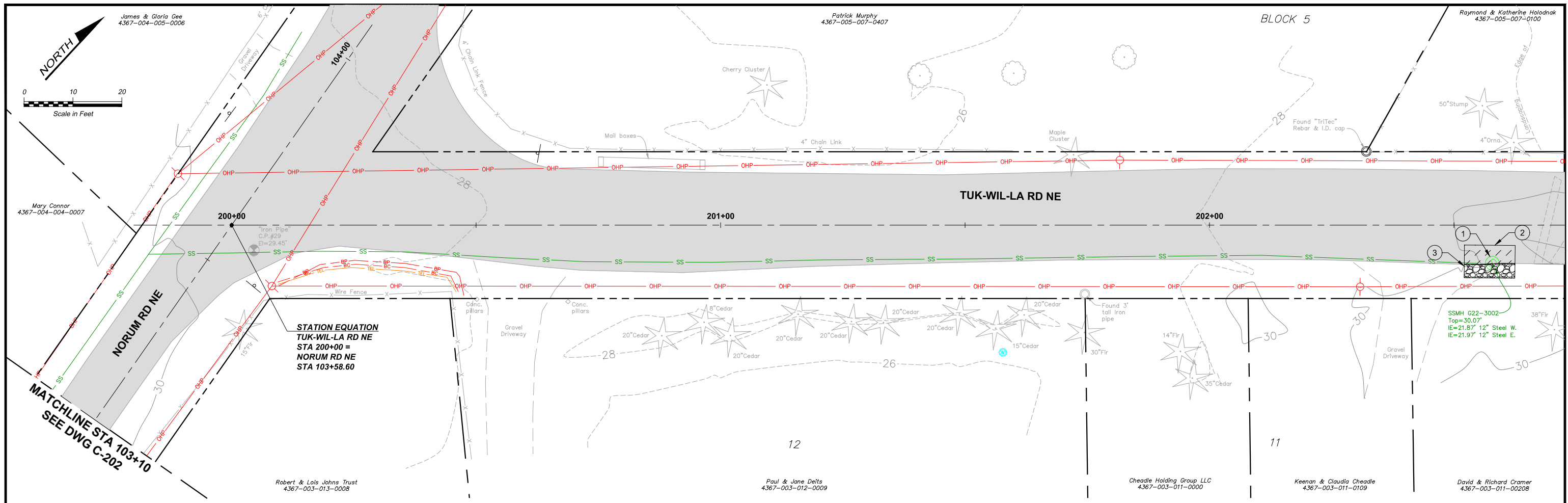
Scale:
Horiz: 1" = 10'-0"
Vert: 1" = 5'-0"
One Inch At Full Scale
If Not One Inch Scale Accordingly



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**KITSAP COUNTY PS 16/67 UPGRADES
LEMOLO IMPROVEMENTS
NORUM RD NE
SHEET 1 OF 2**

Drawing: **C-202**
Sheet: **99** Of **101**
File: 99-P13-10282_C-202
Date: February 2017



- CONSTRUCTION NOTES:**
- ① SEAL SSMH G22-3002, SEE DETAIL 1/C-202
 - ② HMA T-PATCH, SEE DETAIL 2/C-204
 - ③ RESTORE DISTURBED GRAVEL SHOULDER WITH 2" MIN CSTC
 - ④ SEAL SSMH G22-3001, SEE DETAIL 1/C-202

RECORD DRAWING

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FILE NAME (UPDATED BY) [REDACTED]
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 XREFS: Disclaimer, Fisher, Kitsap, Lemolo, Logo, X13-10282_Align-Prop, X13-10282_Trap, SS, Lemolo

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 Approved: M. Harper, P.E.

Scale:
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**KITSAP COUNTY PS 16/67 UPGRADES
 LEMOLO IMPROVEMENTS
 TUK-WIL-LA RD NE
 SHEET 2 OF 2**

Drawing: **C-203**
 Sheet: **100** Of **101**
 File: 100-P13-10282_C-203
 Date: February 2017

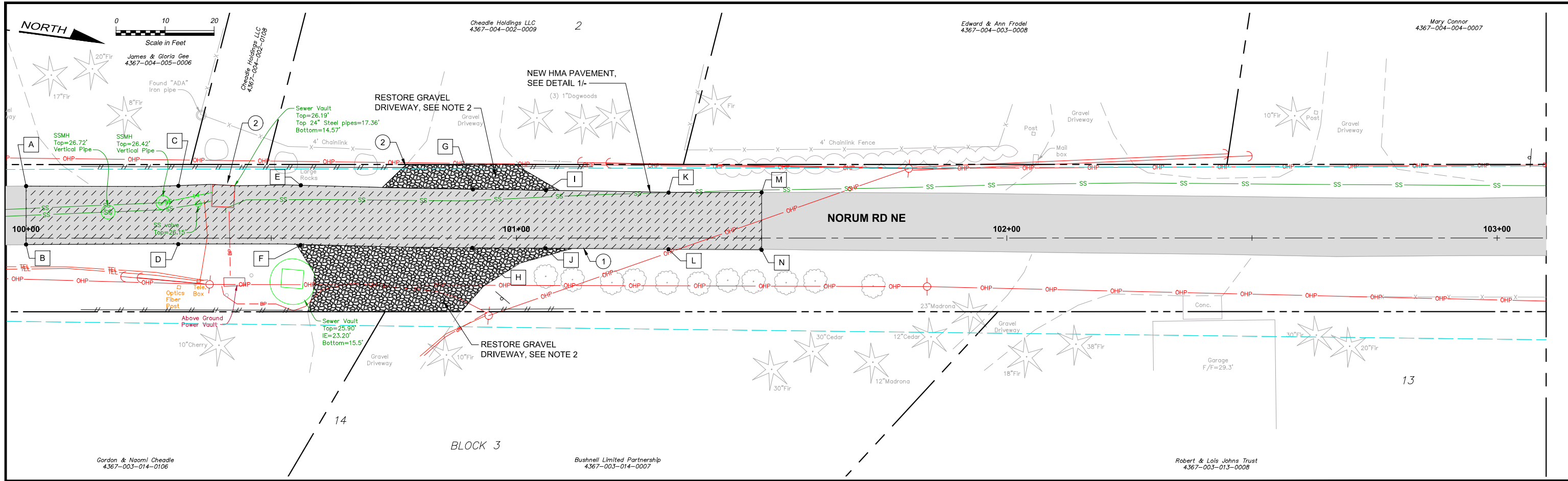
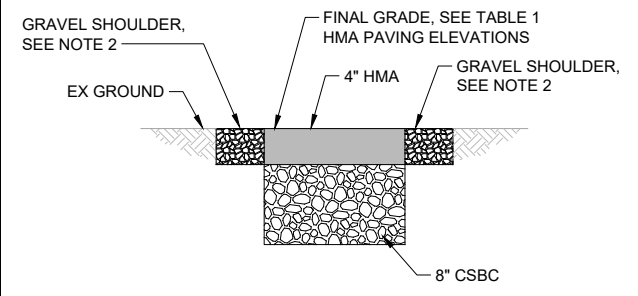
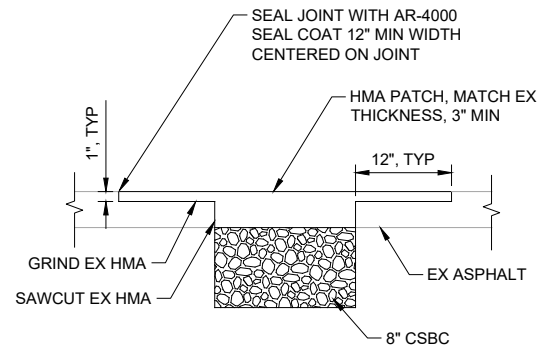


TABLE 1 HMA PAVING ELEVATIONS

POINT	STATION	OFFSET	FINAL GRADE
A	100+06.0	10.6	26.87
B	100+06.0	1.3	26.60
C	100+31.0	10.7	26.35
D	100+31.0	1.2	26.20
E	100+56.0	10.7	25.79
F	100+56.0	1.3	25.78
G	100+81.0	10.1	25.52
H	100+81.0	1.9	25.45
I	101+06.0	9.7	25.43
J	101+06.0	2.0	25.27
K	101+31.0	9.3	25.66
L	101+31.0	2.0	25.52
M	101+50.0	9.3	26.07
N	101+50.0	2.4	25.84



NE NORUM ROAD PAVING RESTORATION DETAIL 1
NTS TYP



HMA T-PATCH DETAIL 2
NTS TYP

- CONSTRUCTION NOTES:**
- GRIND AND REMOVE EXISTING ASPHALT AND BASE COURSE AS NEEDED TO MEET FINISH GRADE REQUIREMENTS. RESTORE ROAD PER DETAIL 1/-.
 - REPLACE DISTURBED GRAVEL SHOULDER AND DRIVEWAYS WITH 4" CSTC.

RECORD DRAWING

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FILE NAME (UPDATED BY) APR 23 2015 11:52:41
 C:\PWORKING\SEA\10050325\101-P13-10282-C-204.DWG (GOC)
 XREFS: Disclaimer, Fisher, Kitsap, Lemo, topo, X1.1-10282_Align-Prop, X1.2-10282_Prop_SS

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Checked: R. Dorn, P.E.
Approved: M. Harper, P.E.

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KITSAP COUNTY PS 16/67 UPGRADES
LEMOLO IMPROVEMENTS
ROAD WAY PLANS

Drawing: **C-204**
Sheet: **101** Of **101**
File: 101-P13-10282_C-204
Date: February 2017