

PORT OF KLIKITAT BUILDING 1D

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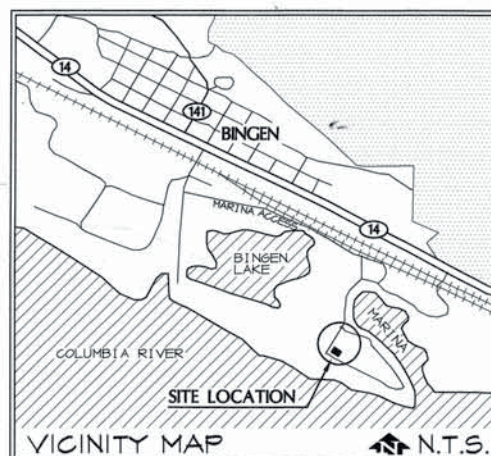


STANDARD ABBREVIATIONS

A.F.F.	Above Finish Floor	F.O.C.	Face of Concrete	O.C.	On Center	T.O.C.	Top of Curb
ADH.	Adhesive	F.O.S.	Face of Stud	OPN'S.	Opening	T.O.P.	Top of Pavement
ADONL.	Additional	F.A.C.T.	Factory Finish	OPP.	Opposite	T.O.H.	Top of Wall
AL. or ALUM.	Aluminum	FT.	Feet and/or Foot	OZ.	Once	TYP.	Typical
ANCH.	Anchor	FIN.	Finish	O.D.	Outside Diameter	T.S.	Tubular Steel
A.B.	Anchor Bolt	F.F.	Finish Floor	O.H.	Overhead		
ANOD.	Anodized	F.A.	Fire Alarm	P.	Point	U.L.	Underrisers Laboratories
APPR.	Approved	FLASH'S.	Flashing	P.	Pair	UNF.	Unfinished
ARCH.	Architectural	FLR.	Floor	P.N.	Panel	U.O.N.	Unless Otherwise Noted
ASPH.	Asphalt	FLR'S.	Flooring	P.N.L.	Panel Joint	VERT.	Vertical
AVG.	Average	FLUOR.	Fluorescent	P.J.		VOL.	Volume
		FTG.	Footing	PTCL. or PART	Particle		
BACK'S.	Backing	FURR'S.	Furring	PL.	Plate	W.C.	Water Closet
BH.	Beam			PLYND.	Plywood	WP.	Waterproof or Waterproofing
BET.	Between			PT.	Point	WS.	Weatherstripping
BLK.	Block			LB.	Pound	WH.	Wet Hole or Water Heater
BLK'S.	Blocking	GALV.	Galvanized	PREFIN.	Pre-Finished	WT.	Weight
BD.	Board	G.S.	Galvanized Steel	P.T.	Pressure Treated	WUF.	Welded Fine Fabric
BOT.	Bottom	GL.	Glass	R.	Radius or Range	W.	Wet
BLDG.	Building	GYP.	Gypsum	REIN.	Reinforcing or Reinforce	WFL.	Wide Flange
B.O.	By Owner	G.S.	Gypsum Wallboard (Irrated)	REG'D.	Required	W/O.	Without
				REV.	Revised or Revision	YD.	Yard
G.B.	Catch Basin or	HDWR.	Hardware	R.	Riser		
	Circuit Breaker	HD.	Head	RD.	Road		
CLG.	Ceiling	HT.	Height	RH.	Room		
CTR.	Center	H.M.	Hollow Metal	R.O.	Rough Opening		
G.O.	Cleanout	HORIZ.	Horizontal	SCHED.	Schedule		
G.S.	Clear Glass	H.B.	Hose Bibb	SECT.	Section		
COL.	Column			SHG.	Sheathing		
CONG.	Concrete			SHT.	Sheet		
CONN.	Connection	IN.	Inch	SH.	Similar		
CONST.	Construction	I.D.	Inside Diameter	S.O.H.	Similar Opposite Hand		
CONT.	Continuous	INSUL.	Insulation	S.	South		
CONTR.	Contractor or Contract	INT.	Interior	SPRK.	Sprinkler		
COORD.	Coordinate	INV.	Invert	SPEC.	Specification		
G.J.	Control Joint			SQ.	Square		
				SQ. FT. or S.F.	Square Foot		
DP.	Dampproofing or Deep	LOC.	Location	SQ. IN.	Square Inch		
DTL. OR DET.	Detail			STD.	Standard		
DIA.	Diameter			STL.	Steel		
DIM.	Dimension	MFR.	Manufacturer	STIFF.	Stiffener		
DR.	Door	MATL.	Material	ST.	Street		
DEL.	Double	MAX.	Maximum	STR.	Structure or Structural		
DNL.	Down	MECH.	Mechanical				
D.S.	Downspout	MTL.	Metal	TEL.	Telephone		
DWG.	Drawing	MIN.	Minimum	T.G.L. OR T.	Tempered Glass		
		MISC.	Miscellaneous	T.T.S.	Tempered Tinted Glass		
EA.	Each	MUL.	Mullion	T-T.J.S.	Tempered Tinted Insulating Glass		
EAL.	Each Way			TEMP.	Temporary		
E.	East			THRLD.	Threshold		
ELEC.	Electrical			T. & B.	Top and Bottom		
EL. or ELEV.	Elevation	N.	North				
ENCL.	Enclosure	N.C.	Not in Contract				
ENGR.	Engineer	N.T.S.	Not to Scale				
EQ.	Equal	N.S.	Number				
EQUIP.	Equipment						
EXST. or EXST'G.	Existing						
E.J.	Expansion Joint						
EXT.	Exterior						

PROJECT DATA:	
DESIGN CRITERIA	1997 UNIFORM BUILDING CODE & WASHINGTON STATE WIDE AMENDMENTS (2000 EDITION EFFECTIVE JULY 1, 2001)
TYPE OF CONSTRUCTION	II-N FULLY SPRINKLERED
OCCUPANCY	F-1/B
	F-1/B BASIC ALLOWABLE AREA: 12,000 S.F. AREA INCREASES: 205.3 INCREASE FOR SEPARATION ON ALL SIDES: YARDS, BASED ON ASSUMED PROPERTY LINES: EAST 40', SOUTH 50', WEST 85', NORTH 50' 12,000 X 5% = 600 S.F. FOR EACH FOOT OVER 20' 40' YARD GOVERN, MINUS 20' = 20' 20 X 600 S.F. = 12,000 S.F. INCREASE 100% MAXIMUM 24,000 S.F. ALLOWABLE AREA 205.3 INCREASE FOR AUTOMATIC FIRE SPRINKLER SYSTEM: 300% 24,000 S.F. X 300% = 72,000 S.F. ALLOWABLE AREA PROPOSED BUILDING AREA: 25,000 S.F. 27,500 S.F. IF ALTERNATE I IS EXERCISED
AREA OF SITE IMPROVEMENT:	76,275 S.F. (1.75 ACRES)
ZONING:	PARKING REQ'D: (1 SPACE PER 1000 S.F.) 25 SPACES PARKING PROVIDED: 35 SPACES (IF ADDITIVE ALTERNATE ACCEPTED) PARKING REQ'D: 28 SPACES PARKING PROVIDED: 28 SPACES PARKING FOR DISABLED REQ'D: 2 SPACES PROVIDED: 2 SPACES ALL SPACES MINIMUM 8'-0" X 20'-0" (8'-0" MINIMUM TO WHEEL STOP W/ 2'-0" OVERHANGS)

PROJECT TEAM:	
ARCHITECT:	DSP ARCHITECTURE, PLLC 500 W. 8TH STREET SUITE 115 VANCOUVER, WASHINGTON 98660 (360) 695-3306
CIVIL ENGINEER:	HOPPER DENNIS JELISON, PLLC 314 N. 15TH STREET VANCOUVER, WASHINGTON 98660 (360) 695-3488
STRUCTURAL ENGINEER:	KRAMER GEHLEN ASSOCIATES, INC. 400 COLUMBIA STREET SUITE 240 VANCOUVER, WASHINGTON 98660 (360) 693-1621
MECHANICAL ENGINEER:	PARACLETE ENGINEERS, INC. 7810 N.E. VANCOUVER HALL DRIVE VANCOUVER, WASHINGTON 98662 (360) 254-4234
ELECTRICAL ENGINEER:	ATHAY AND ASSOCIATES, INC. 4015 N.E. HIGHWAY 84 SUITE R VANCOUVER, WASHINGTON 98665 (360) 514-0191
LANDSCAPE ARCHITECT:	PLANNING SOLUTIONS, INC. 1508 BROADWAY VANCOUVER, WASHINGTON 98663 (360) 750-4000



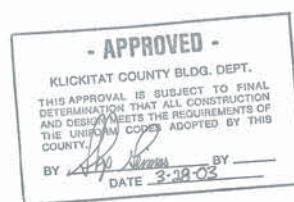
DRAWING INDEX:	
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L3	IRRIGATION DETAILS

LEGEND:

NEH WALL: 5/8" GYP. BD. BOTH SIDES OF 3 1/2" MTL. STUDS @ 1'-4" O.C.	
3 1/2" MTL. STUD FURRING @ 2'-0" O.C. W/ R-II INSUL. W/ FOIL VAPOR BARRIER TO INSIDE.	
NEH WALL: 6" OR 8" TILT-UP CONG. PANEL. SEE PLAN FOR LOCATION OF DIFFERENT SIZES.	
NEH DOOR	
NEH OVERHEAD DOOR	

SYMBOLS:

A	DOOR NUMBER
SI	DETAIL NUMBER
AS	DRAWING DESIGNATION
A-S	SECTION LETTER
A-S	DRAWING NUMBER

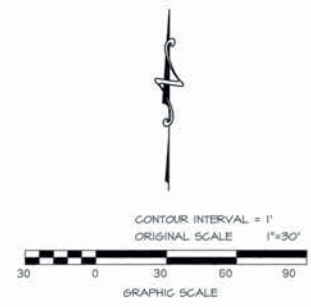


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KLICKITAT COUNTY PORT DISTRICT #1
BINGEN MARINA AND BUSINESS PARK
LOT 14 OF BINGEN POINT BINDING SITE PLAN,
AUDITOR FILE NO. 235562,
IN SECTION 32, T.3N., R.11E., W.M.
KLICKITAT COUNTY, WASHINGTON



BELL DESIGN COMPANY
P.O.B. 308, BINGEN, WA, 98605
CIVIL ENGINEERING LAND SURVEYING



LEGEND

- TUG—TUG TELEPHONE UNDERGROUND
- PUG—PUG POWER UNDERGROUND
- S—S SEWER LINE
- G—G GAS LINE
- SD STORM DRAIN
- 8" 8" WATER LINE
- 6" 6" WATER LINE
- 4" 4" WATER LINE
- Tree Clumps & Bushes
- Cable Fence
- T Power Transformer
- T Telephone Pedestal
- Poplar Tree
- Evergreen Tree
- Hydrant
- Valve
- Manhole
- Catch Basin

NOTES

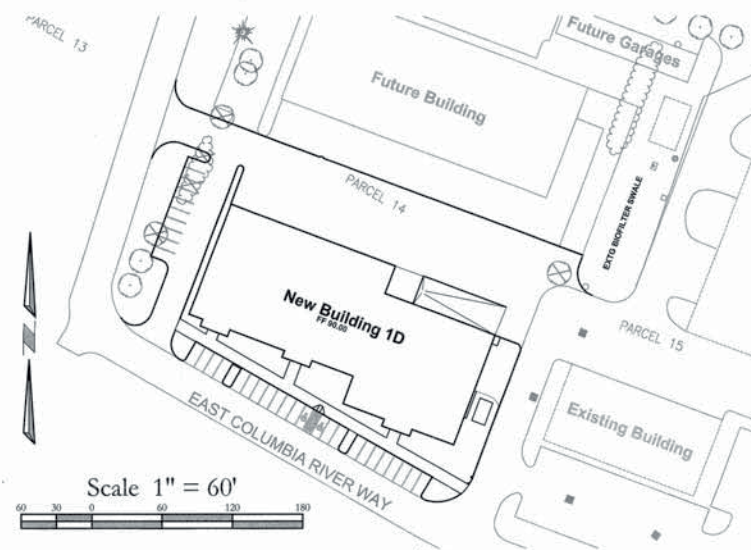
1. FOUND 3" CORPS OF ENGINEER B.C., MARKED BM BB-1, LOCATED IN THE SIDEWALK OF THE RESTROOMS OF THE BINGEN MARINA PARK LOCATED AT THE NORTH SIDE OF PORT PROPERTY. HELD AS EL. BENCH MARK OF 90.68' AS PER DATA GIVEN BY SCOTT KOOL OF THE US ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT.
2. THE OHWL (ORDINARY HIGH WATER LINE) WAS DETERMINED BY ELEVATIONAL TIES TO THE VEGETATION LINE. THESE TIES VARIED FROM EL. 77.80' TO 77.37'. A WEIGHTED AVERAGE EL. OF 77.66' WAS CALCULATED AND USED TO DETERMINE THE HORIZONTAL ALIGNMENT FOR THE OHWL. A 200' SET BACK FROM THAT LINE ESTABLISHES THE SHORE LINE MANAGEMENT BUILDING SETBACK. THIS METHOD WAS DETERMINED BY INSTRUCTION FROM KATHY REED OF THE YAKIMA OFFICE OF DEPT. OF ECOLOGY.
3. PARCEL AND BOUNDARY DATA PROVIDED FROM C.I.D.A. INC. VIA AUTOCAD FILE.
4. UTILITIES LOCATED BY OREGON UTILITIES COORDINATING COUNCIL EXCEPT SANITARY SEWER, STORM WATER AND WATER LINES WHICH WERE LOCATED BY PORT OF KLICKITAT MAINTENANCE.

DATE	9/17/2002
DRAWN	ARB
CHECKED	RWB
DRAWING TITLE	
KLICKITAT CO. PORT DIST. NO 1 BINGEN, WA.	
DRAWING	
SS 1	
1 #OF# 1	
PROJECT	02B062

BUILDING #1D KLICKITAT COUNTY PORT DISTRICT NO. 1

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Internet: www.hjdjengr.com



GENERAL NOTES

OWNER: Klickitat County Port District #1
154 E. Bingen Point Way #A
Bingen, WA 98605
(509) 493-1655

Boundary and topographic information prepared by Bell Design Company, Bingen, Washington, in January, 2003.

Bench mark is a 3" Corps of Engineers brass cap marked BM BB-1. Elevation is 90.68'. Located approximately 1100' NE of the site and 200' NE of the Bingen Marina boat dock.

A minimum of 48 hours prior to beginning construction, the contractor shall contact the Klickitat County Port District (509-493-1655) for location mark up of existing utilities.

Site grading, paving, and storm sewer construction, materials and workmanship shall conform to the "2002 Standard Specifications for Road, Bridge and Municipal Construction" prepared by WSDOT/APWA.

Public sanitary sewer and water system construction, materials, and workmanship shall conform to the "2002 Standard Specifications for Road, Bridge and Municipal Construction" prepared by the WSDOT/APWA.

Any archaeological findings shall be immediately reported to the engineer and any state agency required by Washington State Law.

EROSION AND SEDIMENT CONTROL

Approval of this Erosion and Sediment Control (ESC) plan does not constitute an approval of permanent road or drainage design.

The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the contractor until all construction is completed and approved, and vegetation is established.

The ESC facilities shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water standards.

Care should be taken to not disturb more area than needed for construction requirements. All disturbed soils surfaces are to be stabilized. Stabilization of disturbed soil areas will consist of: hydroseeding or handseeding, mulching, placing of erosion control blankets or plastic in landscaping soil areas. It will also consist of paving and concrete work in driving, parking and sidewalk areas. All seeded areas are to be fertilized, watered and maintained to enhance the immediate regrowth of vegetation.

Material stockpiles are to be protected from precipitation by the following means:

* Temporary - cover piles with tarps or plastic sheeting weighted with tires, lumber or concrete blocks.

* Permanent - cover piles with tarps or plastic, or reseed. Perimeter areas around piles are to be surrounded with erosion control filter fabric fences until soils surface is stabilized with reseeded.

The ESC facilities shall be inspected daily by the contractor and maintained as necessary to ensure continuous functioning. Inspection and maintenance shall include, but not be limited to:

* Verifying that all areas are graded such that all runoff is directed to a sedimentation trap facility before discharging to surface.

* Removal of trapped silts at silt barriers, silt traps, or points of accumulation.

* Additional protective measures, as required, due to job site conditions.

* Stabilized construction entrances installed at the beginning of construction and maintained for the duration of the project. Monitoring of vehicles leaving the site to minimize transmission of loose soils to the public roadways.

* If sediment is transported onto a road surface, the surface is to be cleaned thoroughly at the end of each day.

The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 24 hours following a storm event. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

This sedimentation and erosion control plan is intended to be utilized as a guide to control the transportation of loose soils from the property that cause water quality and nuisance problems outside of the construction area.

Depending upon the Contractor's construction practices, some portions of the proposed erosion control plan may be varied according to the job site condition. All changes to the plan must be reviewed and approved by the Engineer prior to adjustment.

An "Entranceway Vehicle Washdown Zone" shall be installed at each point of entry.

SITE GRADING

The contractor shall become familiar with the Geotechnical report prepared by GeoEngineers, dated November 12, 2002, specifically for this site. The contractor shall follow all recommendations regarding earthwork as detailed in the report.

The entire site is to be mowed and stripped to remove all grass, roots, organic soil, and construction fill debris prior to the beginning of any grading operations. The approximate depth of stripping is 3" as identified in the geotechnical report. The contractor shall salvage and stockpile enough select top soil to accommodate landscaping needs.

Following stripping and grubbing, the exposed soils shall be proof rolled to reveal weak, organic, or other unsuitable soils. Unsuitable soils shall be excavated to firm ground and filled to grade with suitable native or structural fill.

Exposed subgrade soils on areas to receive structural fill should be scarified to a depth of 8 inches.

Fill areas shall be structurally filled with surplus suitable materials from cut areas or imported structural fill. Select materials shall be placed in fill areas in lifts not to exceed 8". Each lift shall be compacted to 95% of the maximum dry density. Fill materials should be free of organics, and rock fragments in excess of 6" in dimension.

Compaction testing shall be done in accordance with the AASHTO T-99.

At the end of the grading operation, the stockpiled strippings shall be distributed on the landscape areas in a compacted depth not to exceed 12".

All deleterious materials generated during site grading and strippings not utilized in the final ground cover operation shall be hauled from the site to a contractor provided waste site.

Any excess material, not required to complete the grades shown on the plans shall be hauled from the site to a contractor provided waste site.

All surfaces shall be graded smooth and free of irregularities that might accumulate surface water.

All grading operations and disturbed surface stabilization shall be in accordance with the project Erosion Control Plan, Sheet 2.

STORM SEWERS

Roof drain pipe materials shall be ASTM D-3034 PVC pipe, unless shown otherwise on plan. The roof drain plumbing layout is schematic and may be varied within Uniform Plumbing Code guidelines. The contractor shall coordinate the exact location and elevation of the roof drains with the plumbing plans.

Storm inlet lateral size, slope, and elevation shall be as specified on the Street and Storm Sewer Plan, Sheet 4.

Materials for storm sewer pipe shall be smooth bore high density polyethylene pipe meeting the requirements of AASHTO M-252 or M-294 ("ADS N-12," or project approved equal) or PVC pipe meeting the requirements of ASTM C-900 or D-1784 DR18.

Catch Basins shall be as shown on plans with approved traps, per the details.

Trench excavation shall meet the requirements of Section 7-08.3(1).

Storm sewer pipe bedding and backfill shall meet the requirements of Section 7-08.3(3). Pipe bedding and backfill material shall be granular in paved areas and native in non-paved areas. Backfill material shall be compacted to 95% of the maximum relative density.

Trench backfill shall meet the requirements of Section 7-08.3(3).

Storm Sewer inlets, as noted on the plans, shall be fitted with an approved trap, per the details.

The pavement shall be stenciled at each catch basin curb inlet and curb scupper location to biofilter swales, "Please Protect - Drains to Drinking Water". Approximately 4 required for this project.

SANITARY SEWER CONSTRUCTION NOTES

Sanitary sewer laterals shall be 6" in size, installed at a minimum slope of 0.01 ft/ft unless otherwise specified on the plan.

Materials for sanitary sewer pipe shall be PVC pipe conforming to ASTM D3034 unless otherwise specified.

Prior to backfilling sewer service lateral ends and sewer main cleanouts, the Contractor shall notify the project land surveyor in a timely manner so that construction "As-Built" information may be gathered. If the Contractor backfills prior to the gathering of required information, the Contractor shall be required to expose the ends of service laterals and sewer main cleanouts.

Backfill for sanitary sewer trenches shall be granular material as approved by the engineer. Backfill material shall be compacted to 95% of the maximum relative density.

Compaction testing shall be done in accordance with the AASHTO T-99.

The contractor shall mark lateral ends with a 10' - 2" x 4" board, tracing wire and mark the depth of the lateral on the 2"x4" board.

WATER SYSTEM CONSTRUCTION NOTES

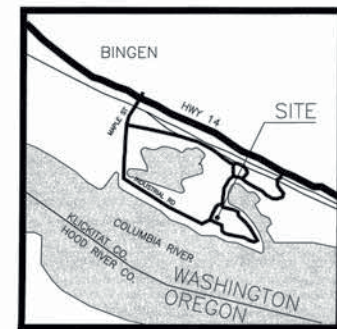
Back fill for water trenches shall be select native material as approved by the engineer. Backfill material shall be compacted to 95% of the maximum relative density.

Location of water services is to be as shown on plans.

Contractor to maintain a minimum 10' horizontal and 18" vertical separation between all existing and proposed water and sewer lines.

BACKFLOW PREVENTION DEVICE

State approved backflow protection shall be required on fire sprinkler and irrigation systems. All hosebibs shall be protected with vacuum breakers. Further backflow protection shall be required depending on water usage i.e. - broilers, chillers, chemical additions, booster pumps, wells, etc.



VICINITY MAP
NOT TO SCALE

SHEET INDEX

1. COVER SHEET
2. EROSION CONTROL PLAN
3. GRADING PLAN
4. STREET & STORM PLAN
5. SAN & WATER PLAN
6. UTILITY DETAILS
7. STREET DETAILS
8. ALTERNATE 1

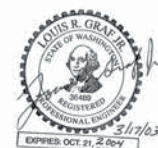
PORT OF KLICKITAT

APPROVED	DATE
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BUILDING 1D
KLICKITAT COUNTY PORT DISTRICT NO. 1
BINGEN, WASHINGTON

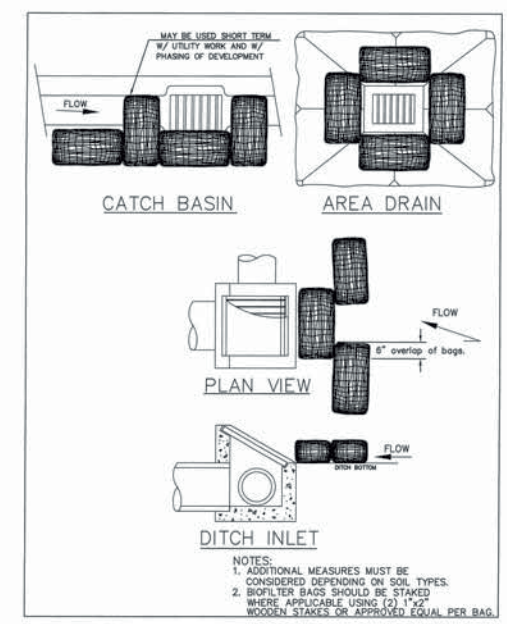
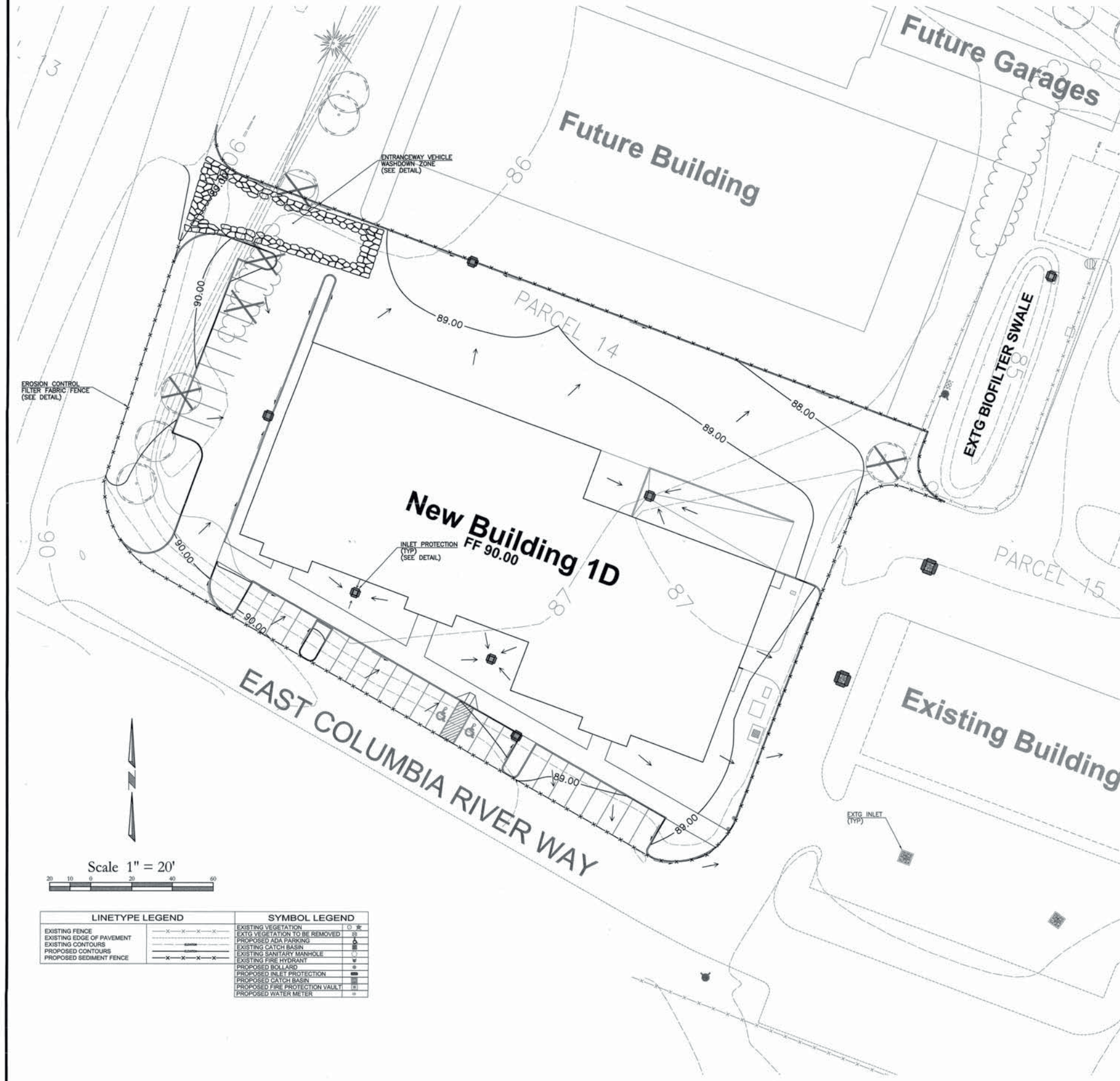
PRELIMINARY
SUBJECT TO AGENCY REVIEW
NOT FOR CONSTRUCTION

No.	Revision	Date	By	App'd
A	PRELIMINARY - ISSUED FOR REVIEW	3/13/03	BSN	LRG

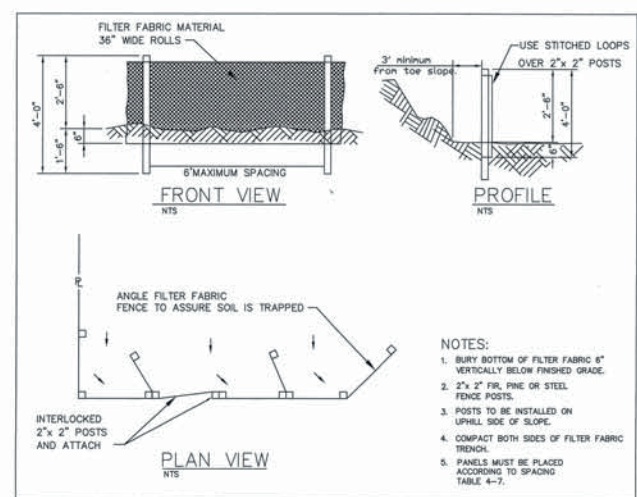


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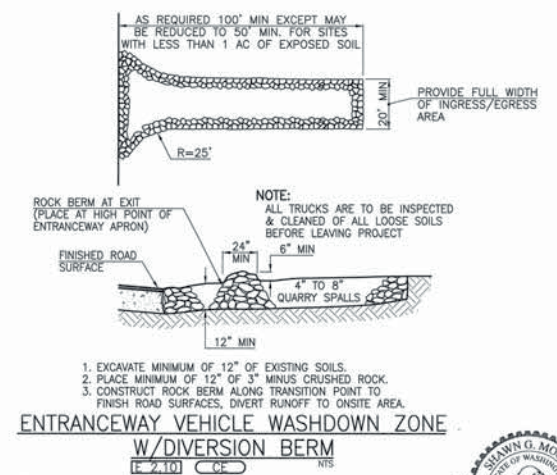
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INLET PROTECTION



EROSION CONTROL FILTER FABRIC FENCE

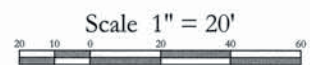


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Tigard, OR 97223-4364
(503) 924-4000
(503) 924-4001
(503) 924-4366
Internet: www.hdjengineering.com

BUILDING 1D
CLICKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON

DATE MARCH 13, 2008
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EROSION CONTROL PLAN
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LINETYPE LEGEND	SYMBOL LEGEND
EXISTING FENCE	EXISTING VEGETATION
EXISTING EDGE OF PAVEMENT	EXISTING VEGETATION TO BE REMOVED
EXISTING CONTOURS	PROPOSED ADA PARKING
PROPOSED CONTOURS	EXISTING CATCH BASIN
PROPOSED SEDIMENT FENCE	EXISTING SANITARY MANHOLE
	EXISTING FIRE HYDRANT
	PROPOSED BOLLARD
	PROPOSED INLET PROTECTION
	PROPOSED CATCH BASIN
	PROPOSED FIRE PROTECTION VAULT
	PROPOSED WATER METER



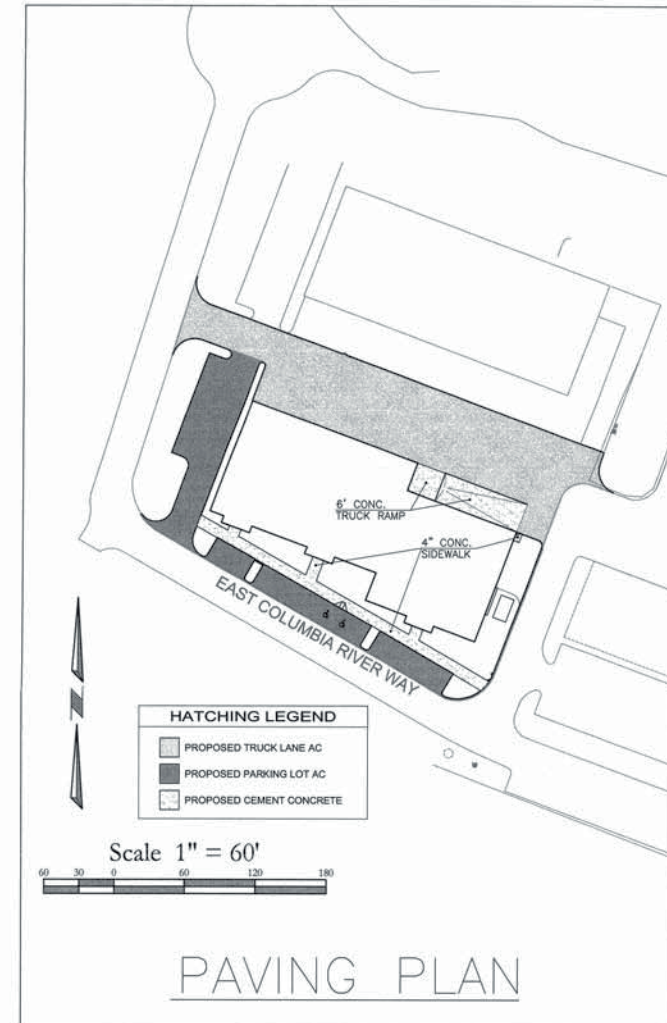
LINETYPE LEGEND		SYMBOL LEGEND	
EXISTING FENCE	---	EXISTING VEGETATION	○
EXISTING EDGE OF PAVEMENT	---	EXTG VEGETATION TO BE REMOVED	✕
EXISTING CONTOURS	---	PROPOSED ADA PARKING	△
PROPOSED CONTOURS	---	EXISTING CATCH BASIN	■
PROPOSED CURB	---	EXISTING SANITARY MANHOLE	○
		EXISTING FIRE HYDRANT	⋄
		PROPOSED BOLLARD	○
		PROPOSED CATCH BASIN	■
		PROPOSED FIRE PROTECTION VAULT	■
		PROPOSED WATER METER	○
		PROPOSED SPOT ELEVATION	•
		TC = TOP OF CURB	
		FG = FINISHED GRADE	

BUILDING 1D
Klickitat County Port District No. 1
Bingen, Washington

DATE: MARCH 13, 2009
DRAWN: BSN
CHECKED: LRS
DRAWING TITLE: GRADING PLAN



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PROJECT: 2150
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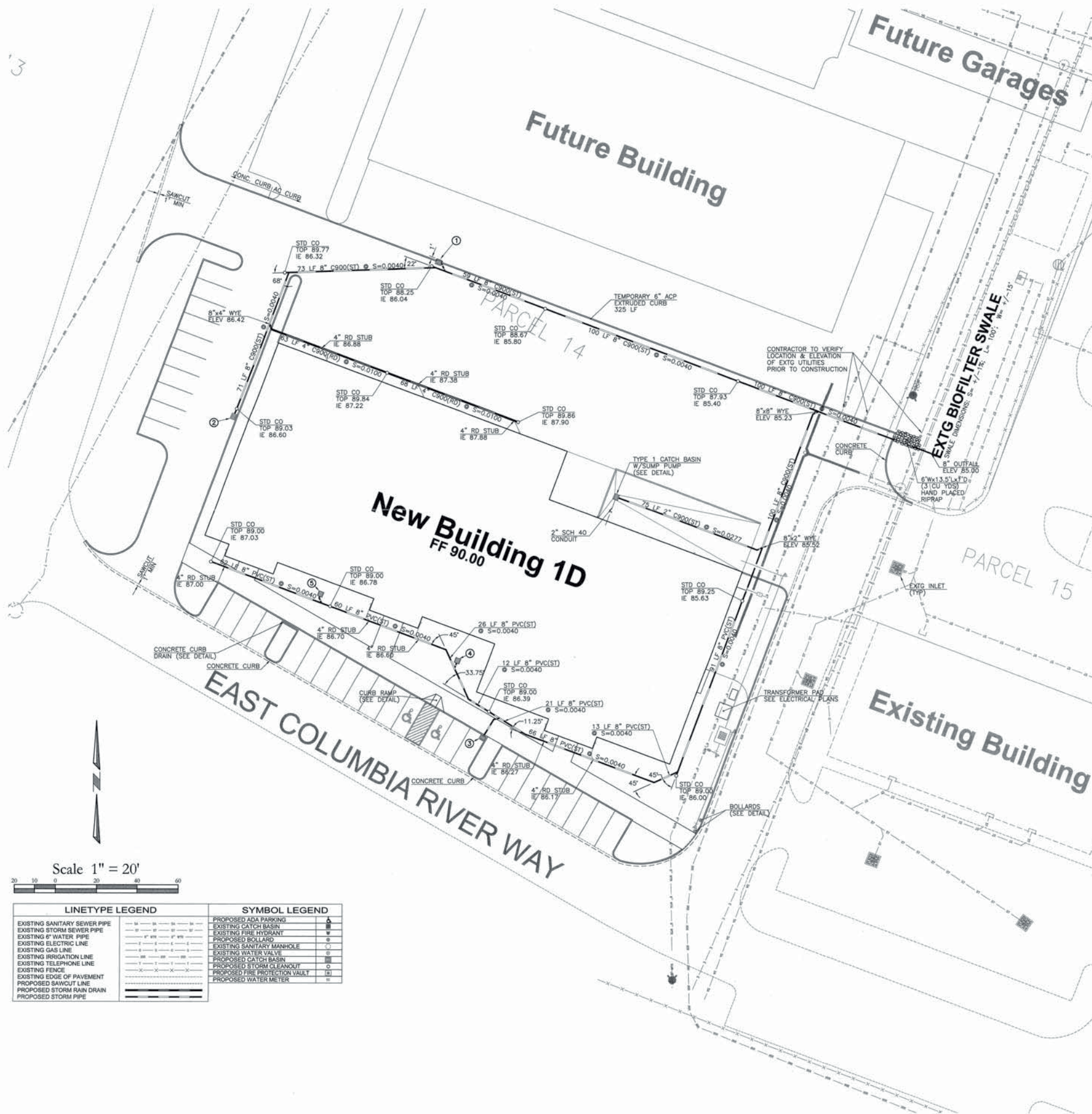


LYNCH BASIN INLET TABLE							
No.	INLET TYPE	TOP ELEV	OUTLET IE	LATERAL IE	MAIN IE	LATERAL SIZE	LATERAL SLOPE
1	STANDARD	88.21	87.54	86.17	86.09	6 in	2.0%
2	STANDARD	89.00	88.17	—	86.61	—	—
3	STANDARD	88.85	88.18	86.62	86.37	6 in	2.0%
4	15"	89.00	88.08	86.64	86.50	4 in	4.0%
5	15"	89.00	88.08	86.97	86.80	4 in	4.0%

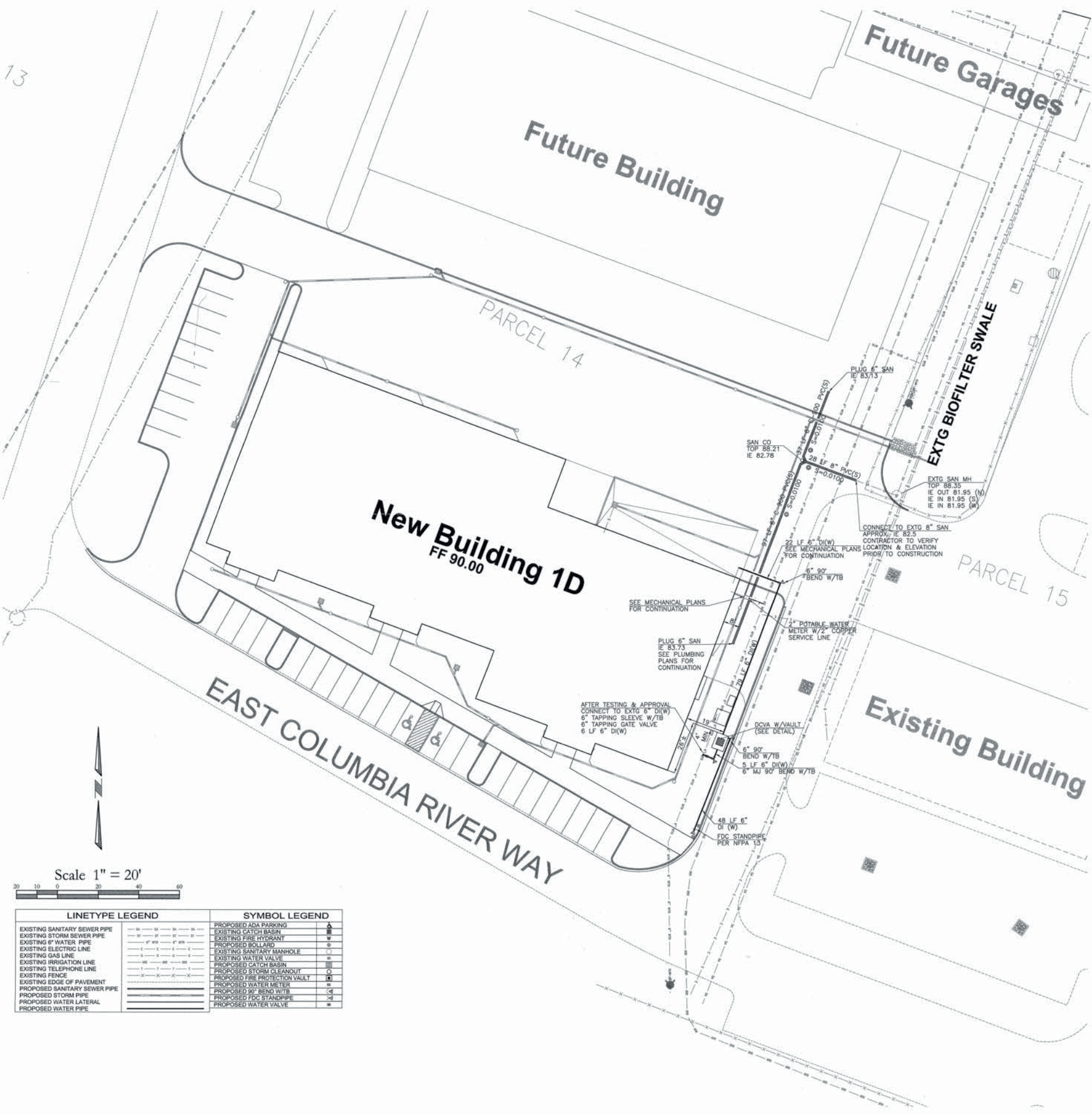
BUILDING 1D
KLICKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON

DATE MARCH 18, 2009
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DRAWING TITLE STREET & STORM PLAN

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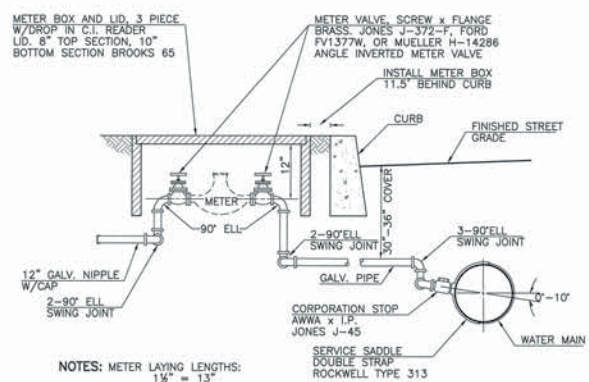


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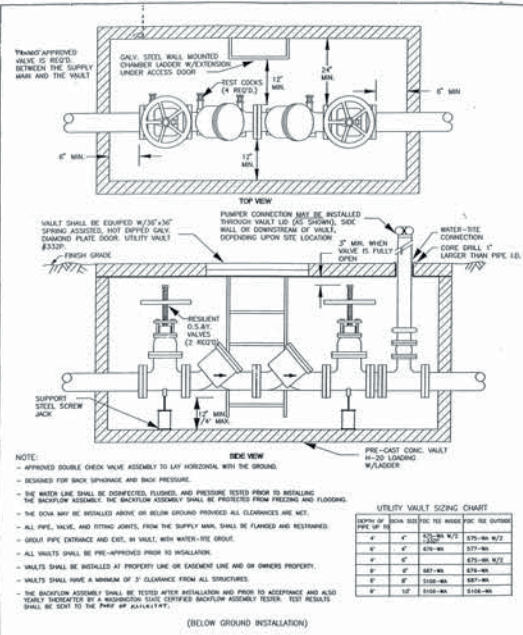


Scale 1" = 20'

LINETYPE LEGEND		SYMBOL LEGEND	
EXISTING SANITARY SEWER PIPE	---	PROPOSED ADA PARKING	⬢
EXISTING STORM SEWER PIPE	---	EXISTING CATCH BASIN	⬢
EXISTING 8" WATER PIPE	---	EXISTING FIRE HYDRANT	⬢
EXISTING ELECTRIC LINE	---	PROPOSED BOLLARD	⬢
EXISTING GAS LINE	---	EXISTING SANITARY MANHOLE	⬢
EXISTING IRRIGATION LINE	---	EXISTING WATER VALVE	⬢
EXISTING TELEPHONE LINE	---	PROPOSED CATCH BASIN	⬢
EXISTING FENCE	---	PROPOSED STORM CLEANOUT	⬢
EXISTING EDGE OF PAVEMENT	---	PROPOSED FIRE PROTECTION VAULT	⬢
PROPOSED SANITARY SEWER PIPE	---	PROPOSED WATER METER	⬢
PROPOSED STORM PIPE	---	PROPOSED 90° BEND W/TB	⬢
PROPOSED WATER LATERAL	---	PROPOSED FDC STANDPIPE	⬢
PROPOSED WATER PIPE	---	PROPOSED WATER VALVE	⬢



STANDARD 1 1/2" AND 2" WATER SERVICE



STANDARD DOUBLE CHECK VALVE ASSEMBLY 2 1/2" AND LARGER

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PLLC
500 W. 8th Street Suite 105
Vancouver, Washington 98660
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Email info@csparchitect.com

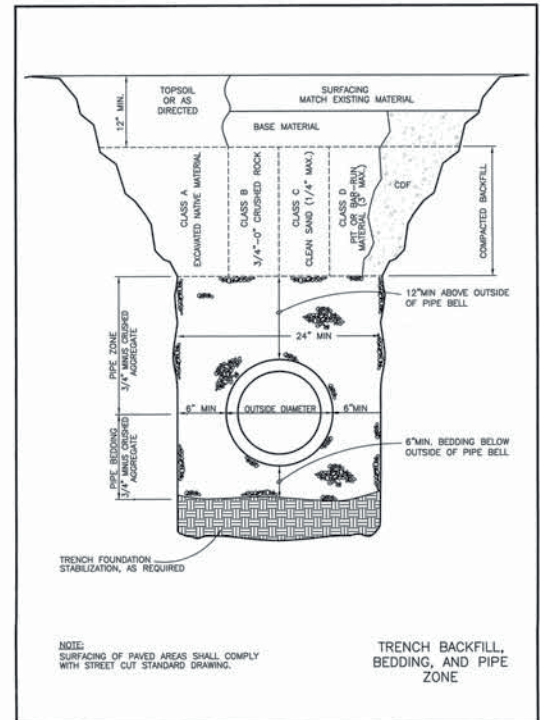
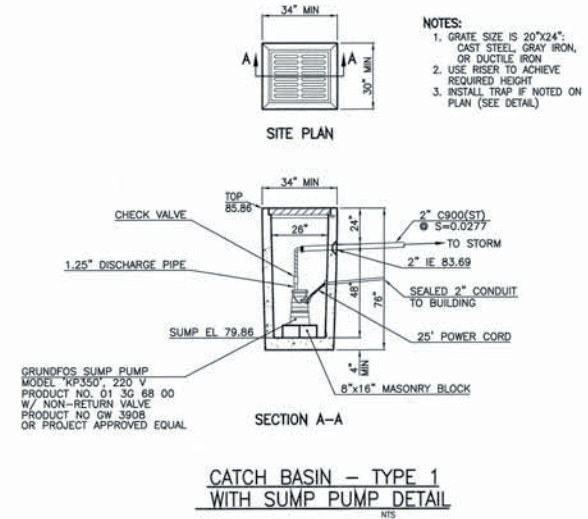
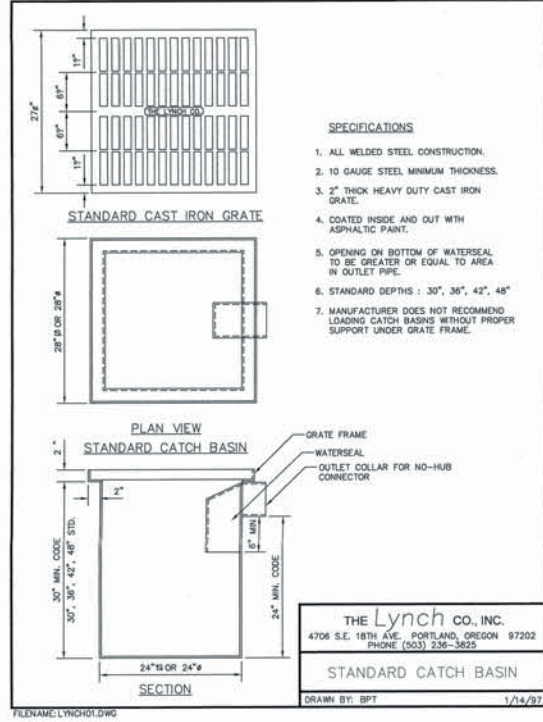
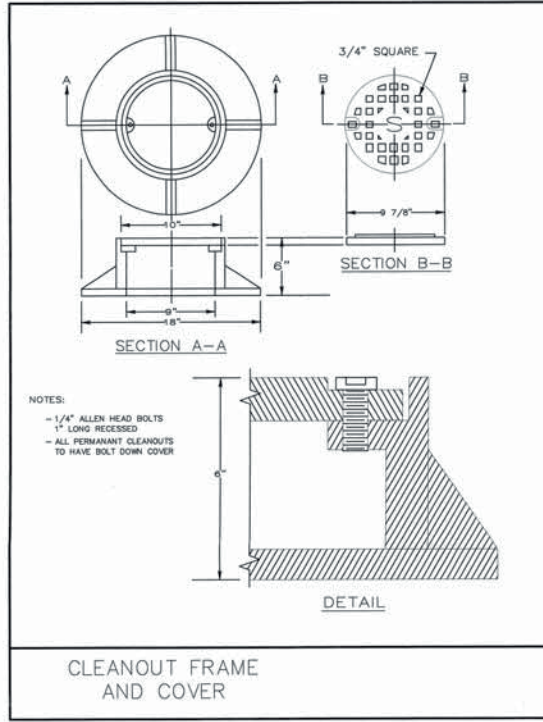
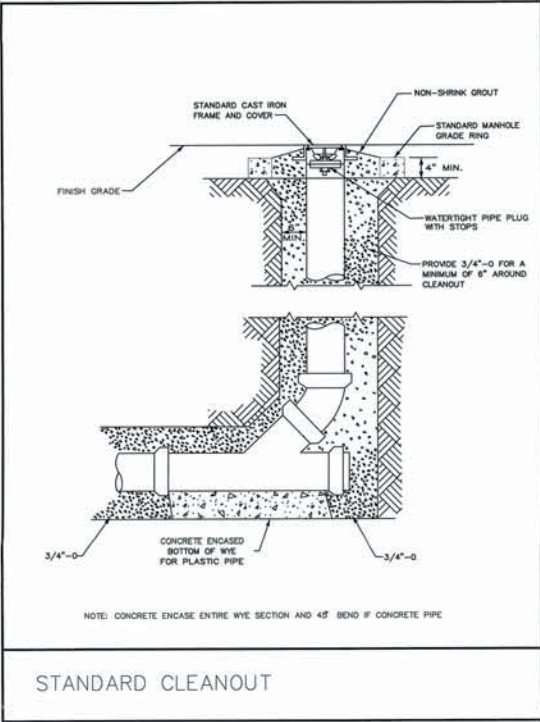
HOPPER DENNIS JELLISON
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ENGINEERS & PLANNERS
7100 S.W. Hampton, Suite 216
Tigard, OR 97223-6364
(503) 924-4002
(503) 695-3488
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BUILDING 1D
CLICKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON



DATE MARCH 15, 2003
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DRAWING TITLE
SAN & WATER PLAN

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(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET										(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS					
FITTING SIZE	TEE, WYE AND THROTTLE BLOCK	STRADDLE BLOCK	90° BEND PLACED ON RUN	45° BEND	22-1/2° BEND	11-1/4° BEND	80° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	80° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	80° BEND
4	1.0	1.6	1.4	1.9	1.4	1.0	1.3	1.0	1.3	1.0	1.3	1.0	1.3	1.0	1.3
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	1.0	1.3	1.0	1.3	1.0	1.3	1.0	1.3
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	1.1	1.1	1.1	1.1	1.1
10	5.9	10.2	8.4	11.8	8.4	4.6	2.4	1.2	3.7	1.8	1.8	1.8	1.8	1.8	1.8
12	8.5	14.7	12.0	17.0	12.0	6.8	3.4	1.7	5.0	2.8	2.8	2.8	2.8	2.8	2.8
14	11.9	20.5	16.3	23.0	16.3	9.9	4.8	2.3	7.6	3.9	3.9	3.9	3.9	3.9	3.9
16	15.0	26.1	21.3	30.0	21.3	11.6	6.0	3.0	9.9	5.1	5.1	5.1	5.1	5.1	5.1
18	19.0	33.0	27.0	38.0	27.0	14.6	7.5	3.8	12.5	6.5	6.5	6.5	6.5	6.5	6.5
20	23.5	40.8	33.3	47.0	33.3	18.1	9.4	4.7	15.5	8.0	8.0	8.0	8.0	8.0	8.0
24	34.0	58.8	48.0	68.0	48.0	28.2	13.6	6.8	22.5	11.5	11.5	11.5	11.5	11.5	11.5

NOTES:

1. ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:

$$\text{BEARING AREA} = (\text{TEST PRESSURE} / 150) \times (2000 / \text{SOIL BEARING STRESS}) \times (\text{TABLE VALUE})$$
2. ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 150 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:

$$\text{VOLUME} = (\text{TEST PRESSURE} / 150) \times (\text{TABLE VALUE})$$



TEE



STRADDLE BLOCK



BEND



Y



CROSS



TEE



Y



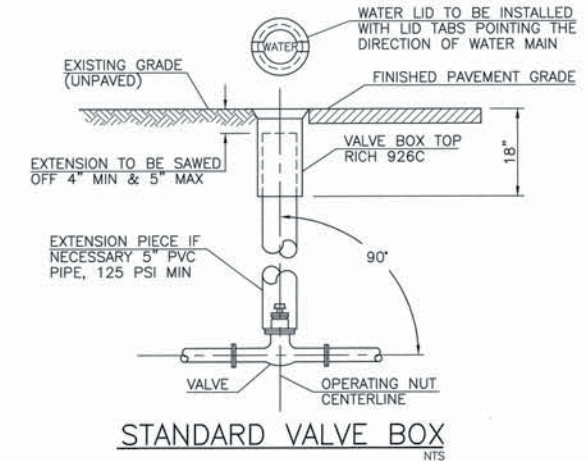
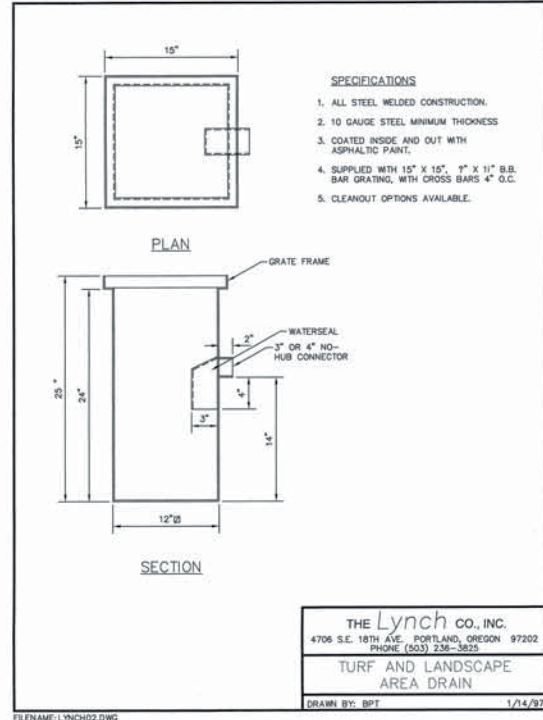
VERTICAL BEND

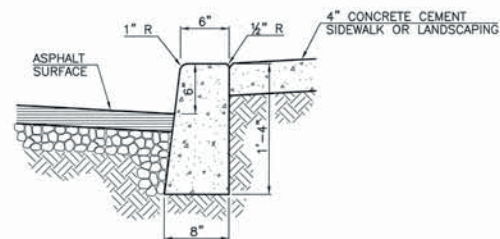
RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

NOTES:

1. CONCRETE BLOTTING TO BE POURED AGAINST UNDISTURBED GROUND.
2. ALL CONCRETE TO BE CLASS 2400 MINIMUM.
3. INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOTTING.
4. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
5. THE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 60000 PSI TENSILE STRENGTH.

THRUST BLOCKING

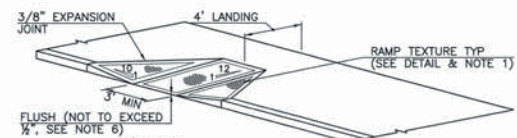




NOTES:

1. CONCRETE SHALL BE 3000 PSI MIN. (CLASS B). 3 1/2" SLUMP (MAX.).
2. CURBS ADJACENT TO PAVEMENT OR SIDEWALK TO HAVE EXPANSION AND/OR CONTRACTION JOINTS TO MATCH EXISTING PATTERNS.
3. 3/8" EXPANSION JOINTS SHALL BE PLACED AT 45' MAXIMUM SPACING, ON BOTH SIDES OF CATCH BASINS, AT TOPS OF DRIVEWAYS, AND ALL CHANGES IN DIRECTION. 1 1/2" CUT JOINTS TO BE PLACED AT 15' MAXIMUM SPACING.
4. COMPACT SUBGRADE AND AGGREGATED TO 95% OF MAX. DRY DENSITY.
5. CURB TO BE BRUSH FINISHED.

**CEMENT CONCRETE CURB
CAST IN PLACE**
NTS

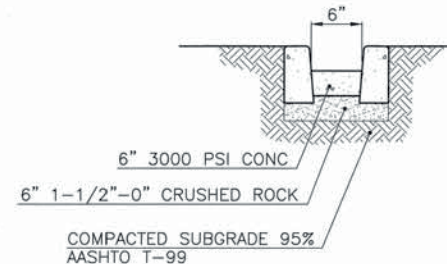


NOTES:

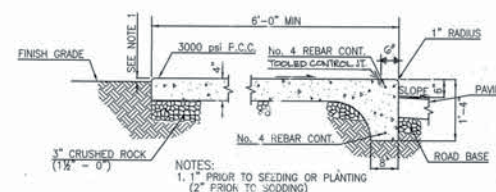
1. RAMP TEXTURING IS TO BE DONE WITH AN EXPANDED METAL GRATE PLACED AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN AS SHOWN. THE LONG AXIS OF THE DIAMOND PATTERN SHALL BE PERPENDICULAR TO THE CURB. GROOVES SHALL BE 1/8" DEEP AND 1/4" WIDE.
2. CURB RAMP DESIGN A, B, OR C SHALL BE SPECIFIED IN THE CONTRACT PLANS OR SPECIAL PROVISIONS. SEE STANDARD PLAN "CEMENT CONCRETE SIDEWALK" FOR CURB RAMP DESIGNS AND CROSS SECTIONS.
3. CURB RAMP SHALL BE POURED AS A SEPARATE UNIT FROM THE SIDEWALK, ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES EXCEPT AT END OF RAMP NEXT TO THE ROADWAY.
4. INLETS SHALL BE LOCATED SO THAT RUNOFF DOES NOT FLOW PAST THE CURB RAMP.
5. MOUNTING HEIGHT FOR SIGN R7-801 SHALL BE 48"
6. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

* NOMINAL DIMENSIONS
RAMP TEXTURE DETAIL

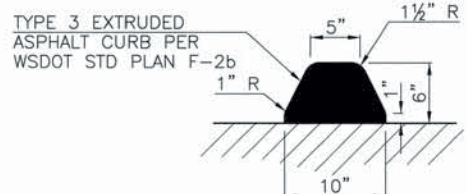
CURB RAMP DETAIL
NTS



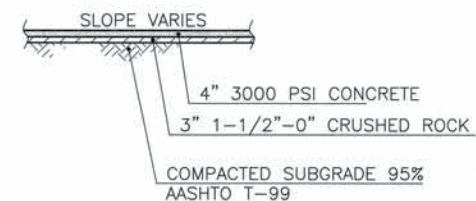
CONCRETE CURB DRAIN DETAIL
NTS



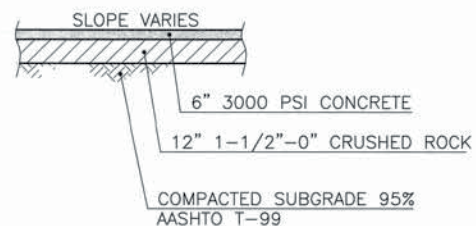
INTEGRAL WALK & CURB DETAIL
NTS



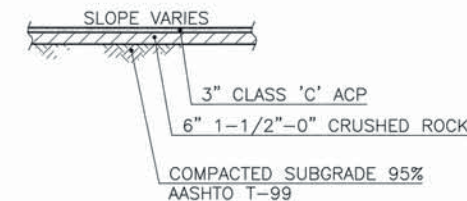
EXTRUDED CURB DETAIL
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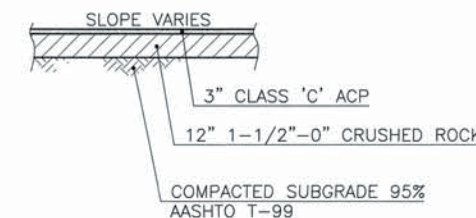
TYPICAL SIDEWALK SECTION
NTS



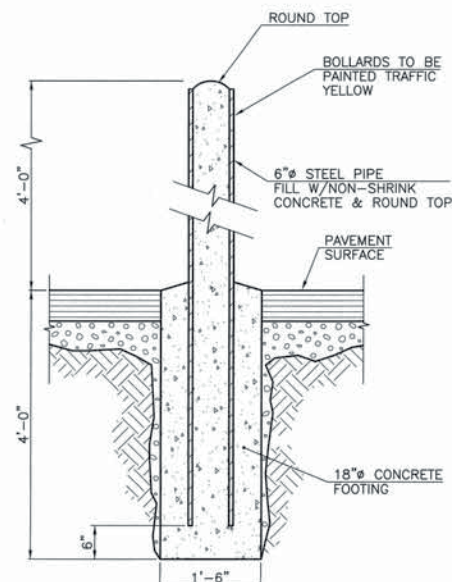
CONCRETE TRUCK RAMP
NTS



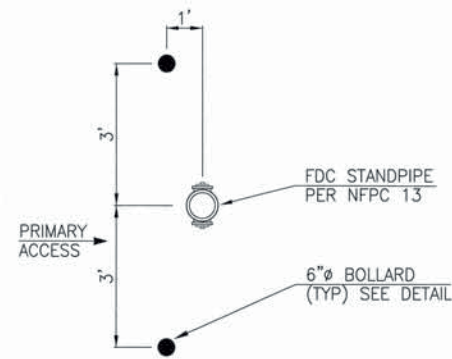
TYPICAL PARKING LOT SECTION
NTS



TYPICAL TRUCK LANE SECTION
NTS



TYPICAL BOLLARD DETAIL
NTS



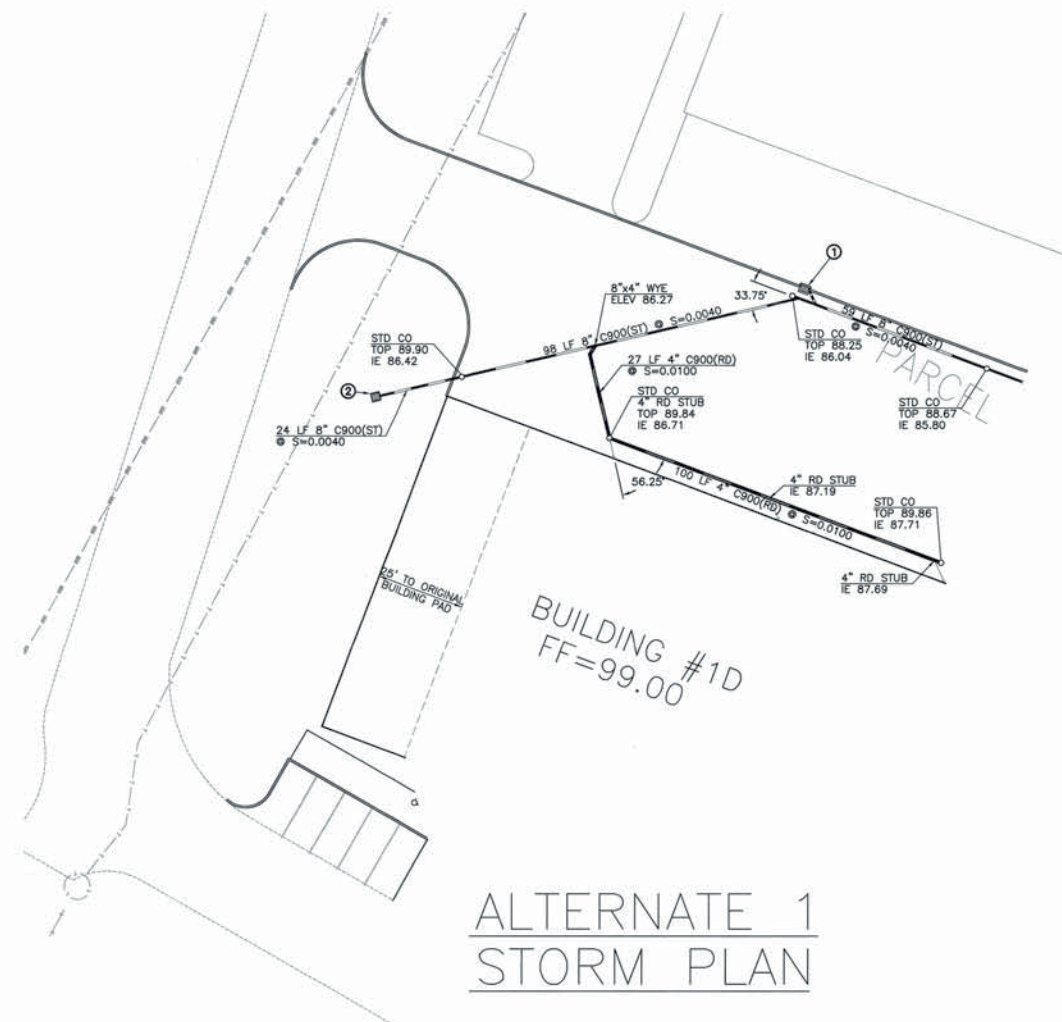
TYPICAL BOLLARD PLACEMENT
NTS

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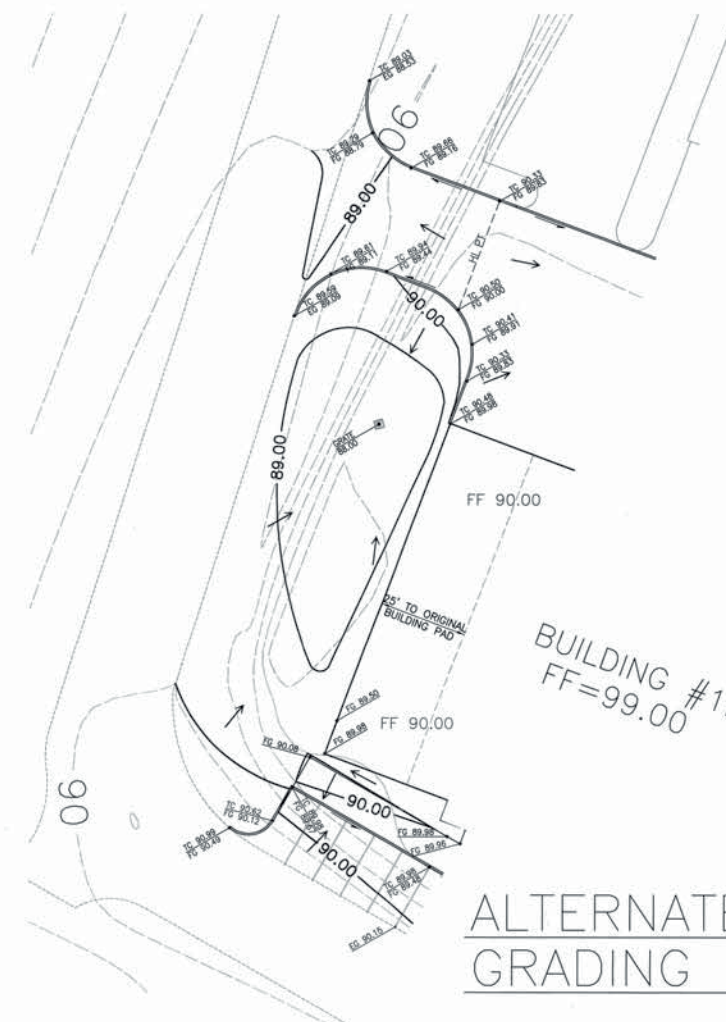
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DRAWING TITLE: STREET DETAILS



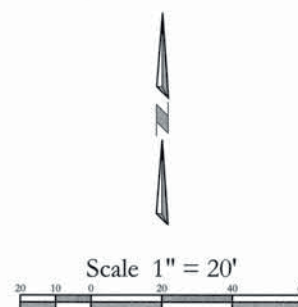
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ALTERNATE 1
STORM PLAN

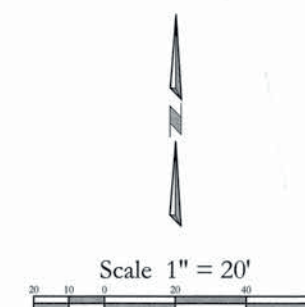


ALTERNATE 1
GRADING PLAN



LYNCH BASIN INLET TABLE							
No.	INLET TYPE	TOP ELEV	OUTLET IE	LATERAL IE	MAIN IE	LATERAL SIZE	LATERAL LENGTH
1	STANDARD	88.21	87.54	86.17	86.09	6 in	4.2'
2	18"	88.00	87.08	—	86.52	—	—

LINETYPE LEGEND		SYMBOL LEGEND	
EXISTING SANITARY SEWER PIPE	---	PROPOSED CATCH BASIN	■
EXISTING STORM SEWER PIPE	---	PROPOSED STORM CLEANOUT	○
EXISTING WATER PIPE	---		
EXISTING IRRIGATION PIPE	---		
EXISTING ELECTRIC LINE	---		
EXISTING GAS LINE	---		
EXISTING TELEPHONE LINE	---		
EXISTING EDGE OF PAVEMENT	---		
EXISTING CONTOURS	---		
PROPOSED CONTOURS	---		
PROPOSED SAWCUT LINE	---		
PROPOSED STORM RAIN DRAIN	---		
PROPOSED STORM PIPE	---		



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Bingen, Washington

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DRAWING TITLE: ALTERNATE 1



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DATE		MARCH 10, 2008	
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AEO		RCS	
DRAWING TITLE			

SITE PLAN & DETAILS

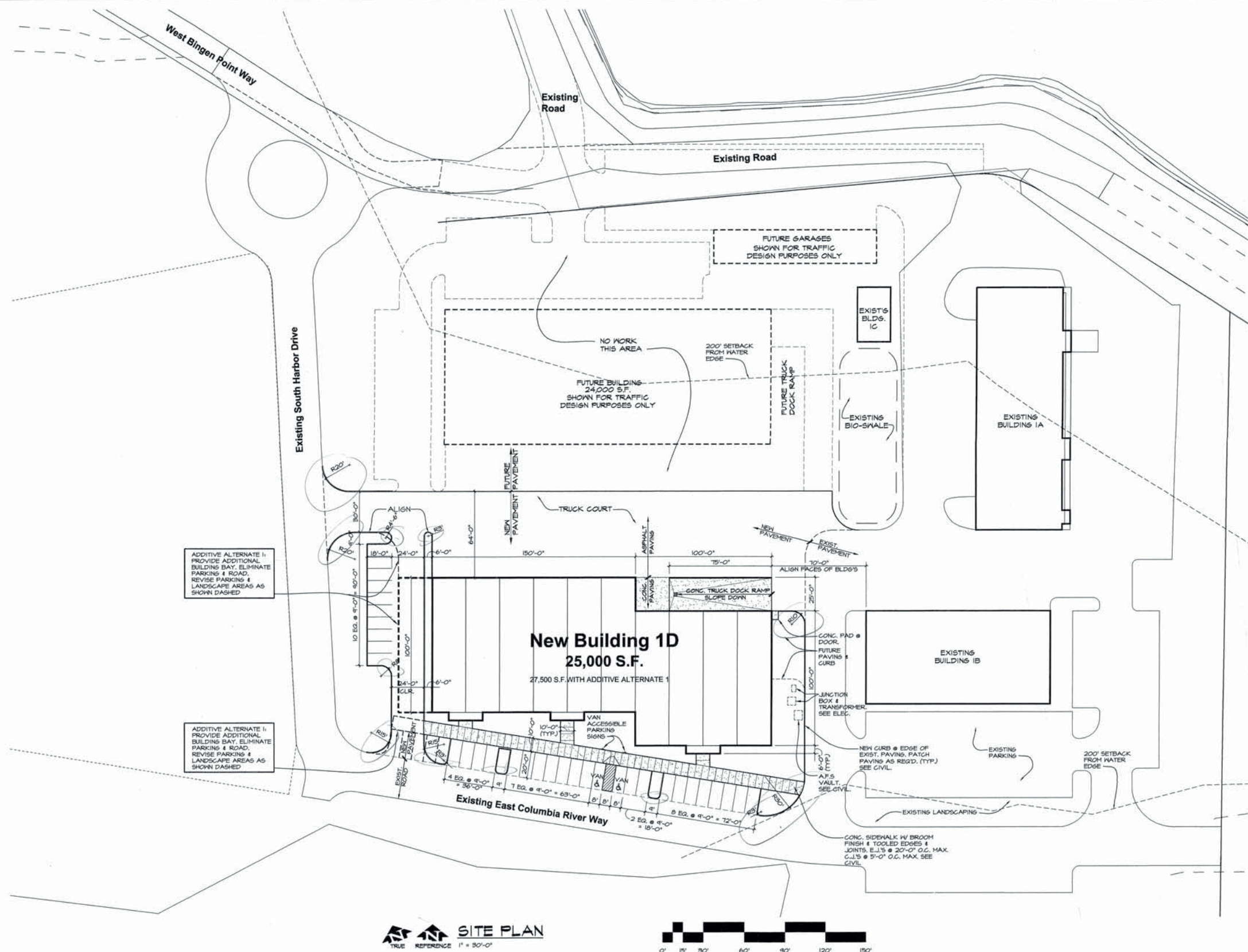
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A1

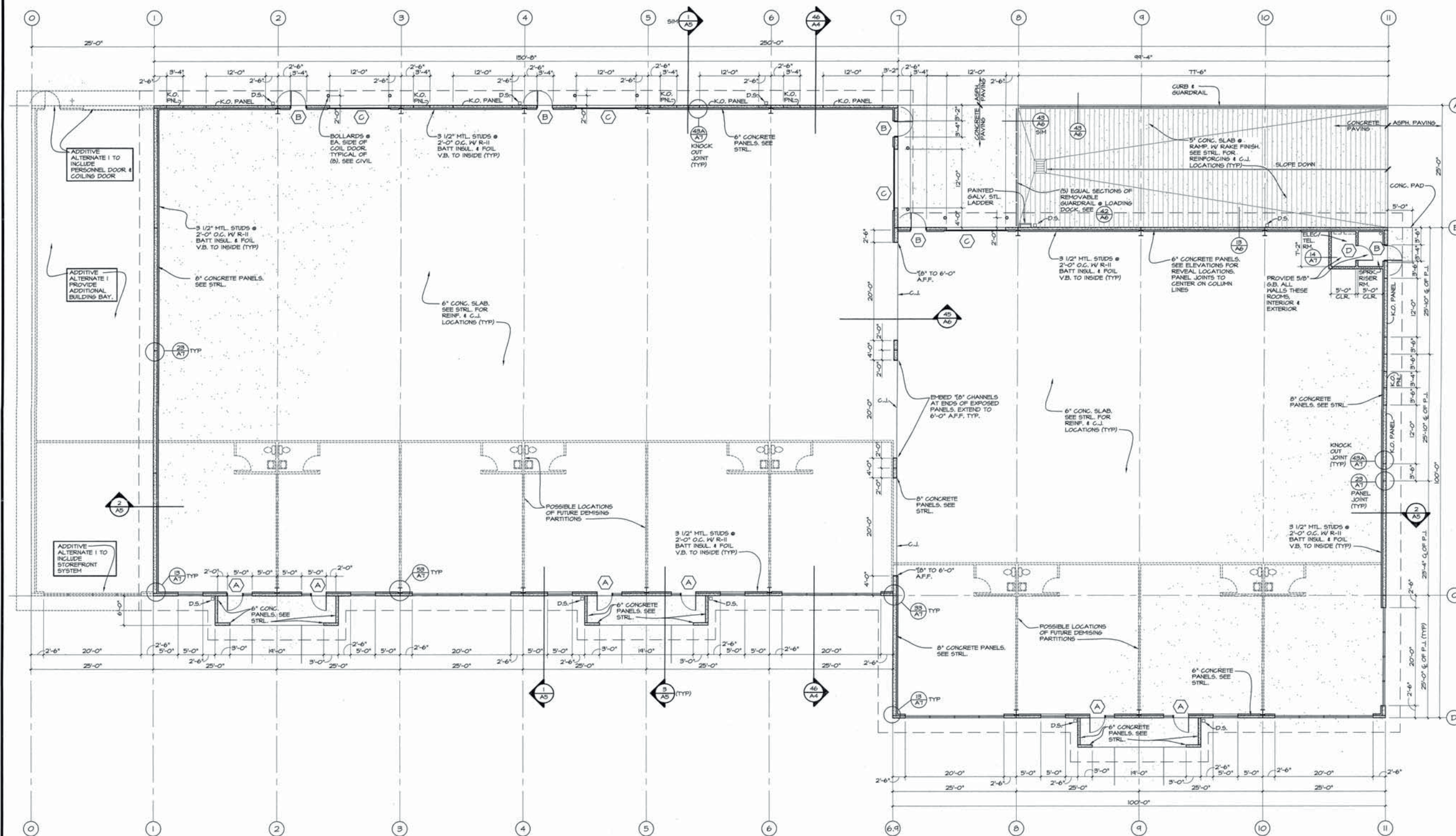
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0223

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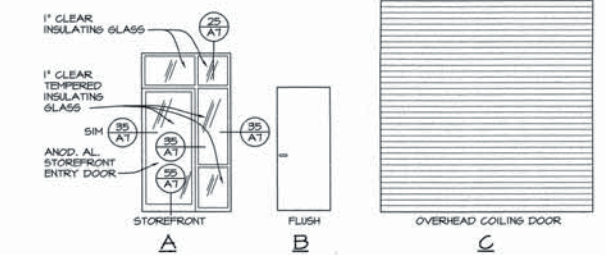


BUILDING 1D
KLICKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON



FLOOR PLAN
1/8" = 1'-0"

DOOR SCHEDULE									
DOOR	DOOR SIZE	DOOR	FRAME	FIN.	FIN.	FIN.	FIN.	HOWR.	NOTES
A	3'-0" X 7'-0" X STOREFRONT	ALUM.	ANOD.	ALUM.	ANOD.				
B	3'-0" X 7'-0" X 1/4"	HM	SGE	HM	SGE			1	
C	12'-0" X 12'-0" CLEAR OPENING	MTL	SGE	MTL	SGE				INSULATED, COILING
D	3'-0" X 7'-0" X 1/4"	HM	SGE	HM	SGE			2	



DOOR TYPES

DATE	MARCH 10, 2009
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Bingen, Washington

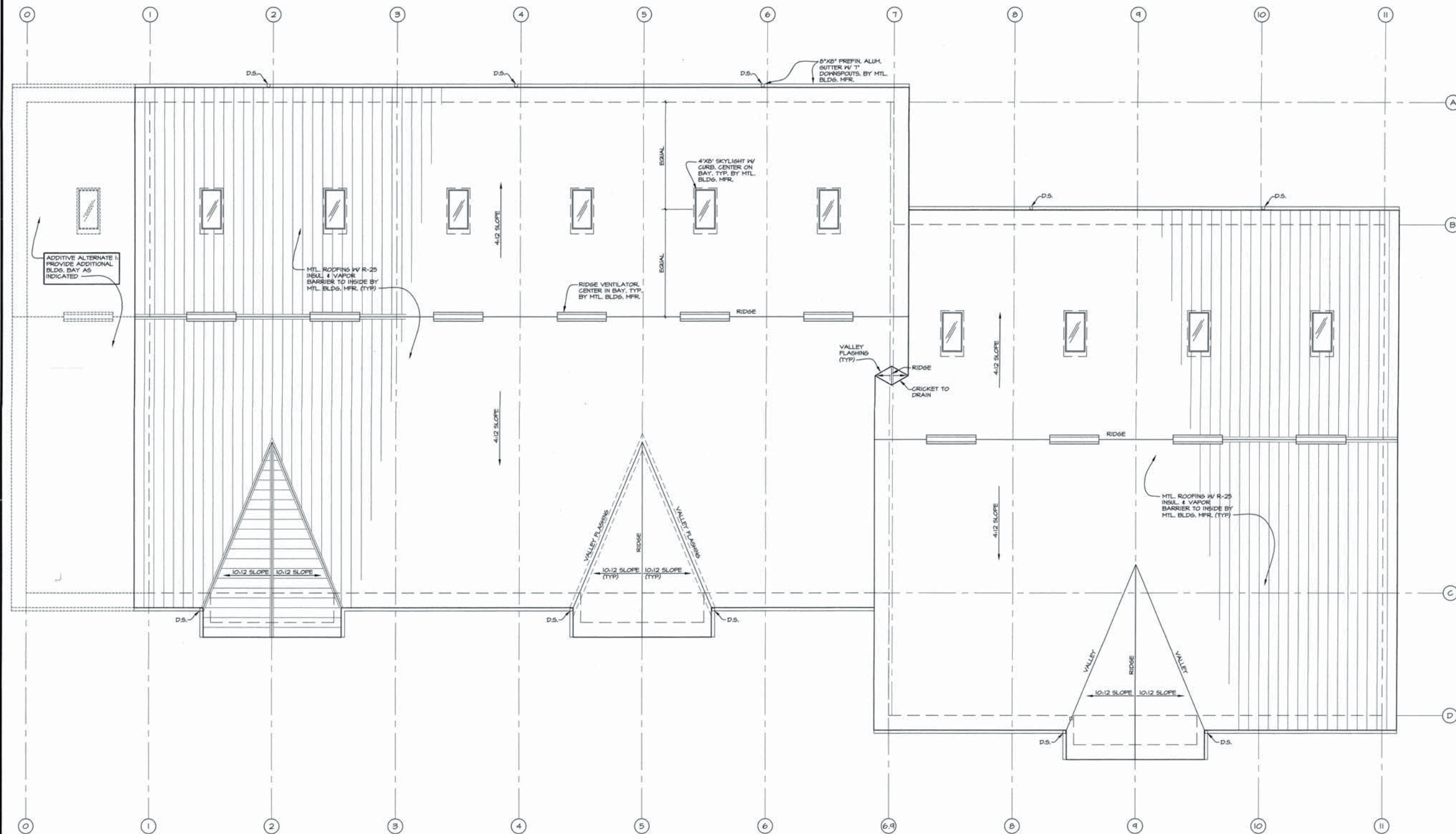
DATE: MARCH 10, 2003
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ROOF PLAN

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ROOF PLAN

1/8" = 1'-0"





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DATE		MARCH 10, 2003	
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DRAWING TITLE			
WALL SECTIONS			

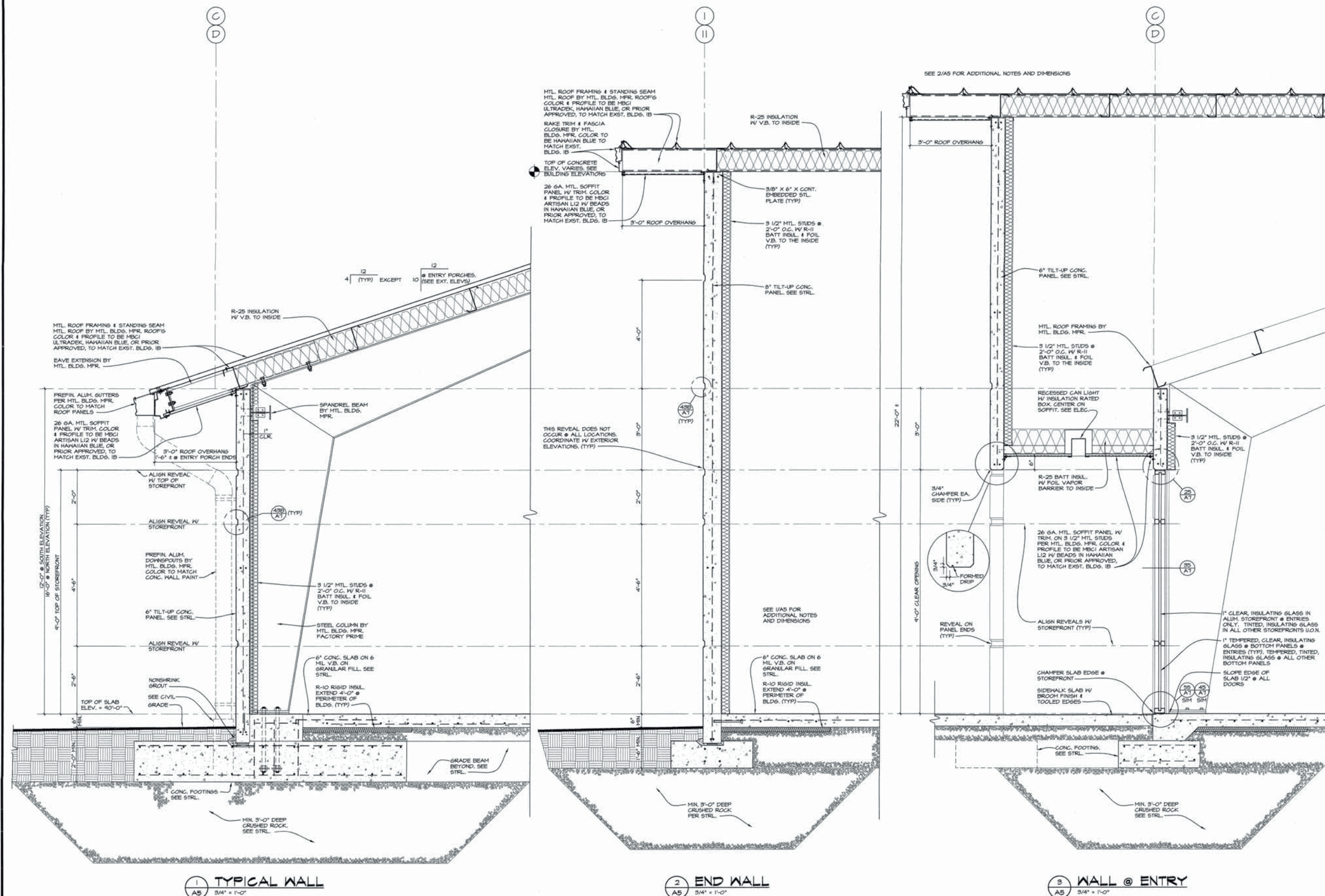
WALL SECTIONS

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A5

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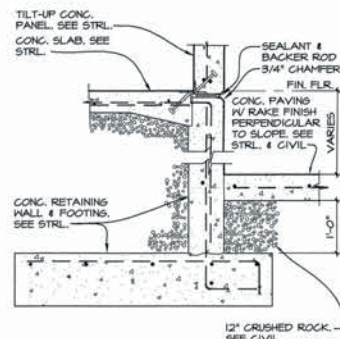
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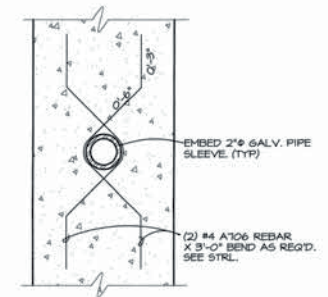
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WALL SECTIONS & DETAILS

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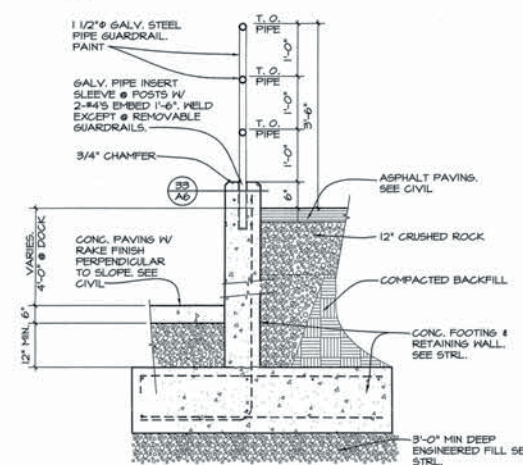


1B
A6
RETAINING WALL @ RAMP
3/4" x 1'-0"

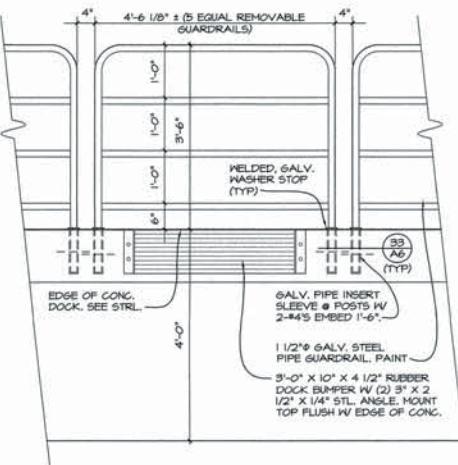
2B
A6
NOT USED



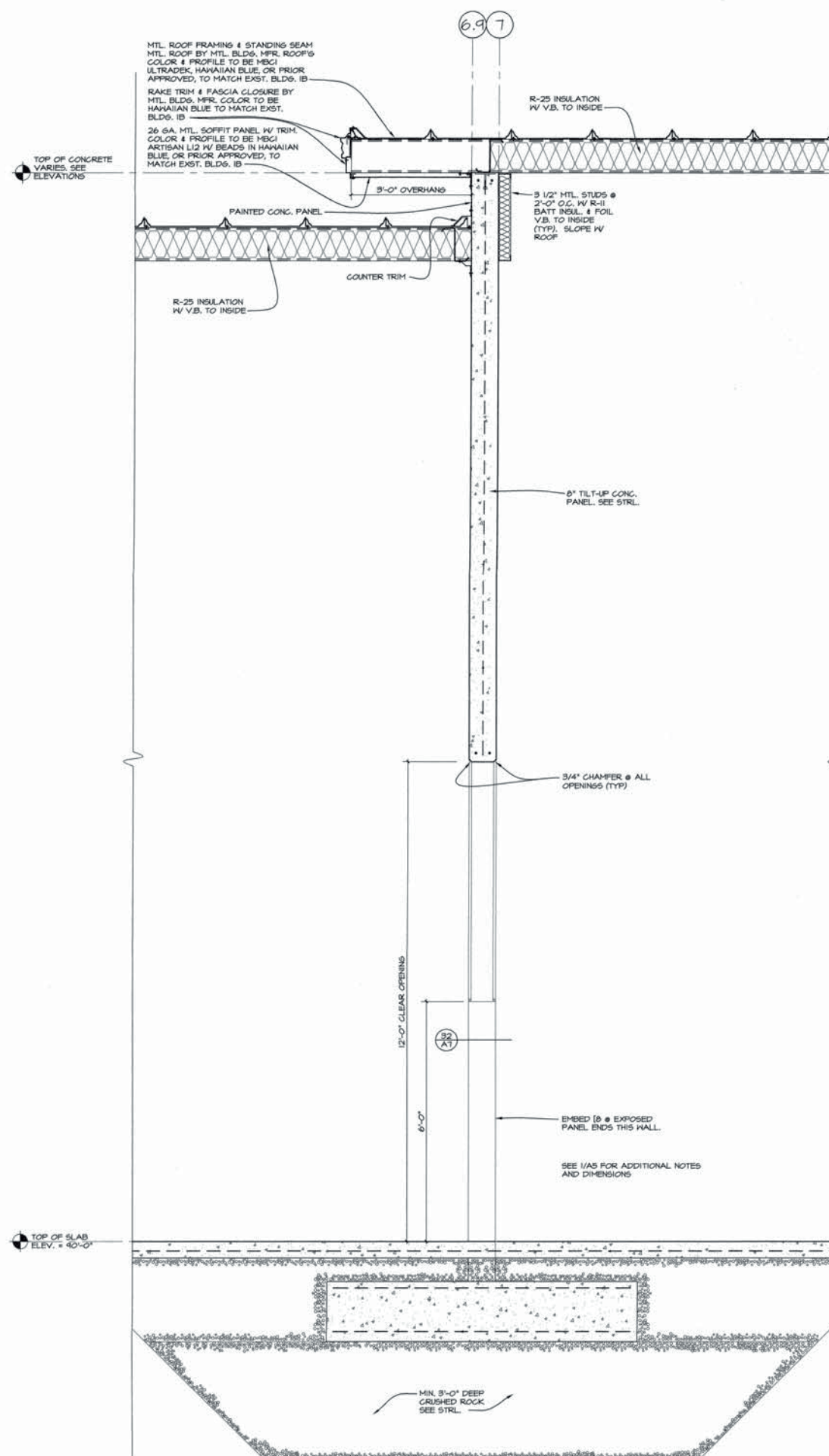
3B
A6
PIPE SLEEVE @
GUARDRAIL SUPPORTS
3' x 1'-0"



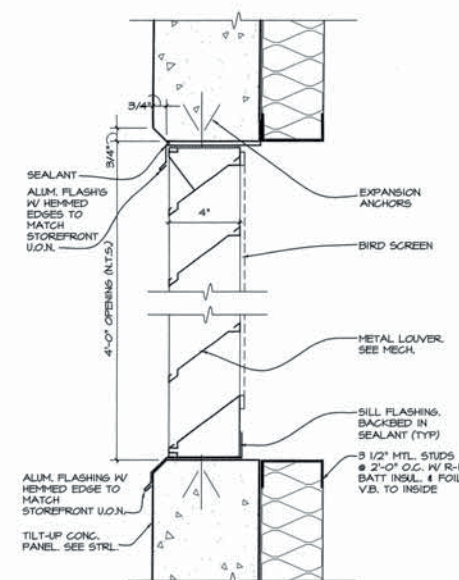
4B
A6
RETAINING WALL @ RAMP
3/4" x 1'-0"



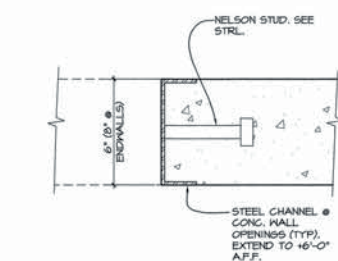
4B
A6
REMOVABLE GUARDRAILS
3/4" x 1'-0"



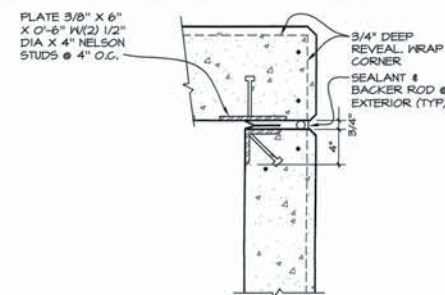
4B
A6
OFFSET WALL
3/4" x 1'-0"



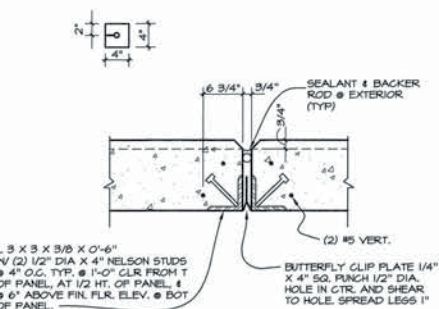
22 LOUVER
A7 $3^{\circ}=1^{\circ}-0^{\circ}$



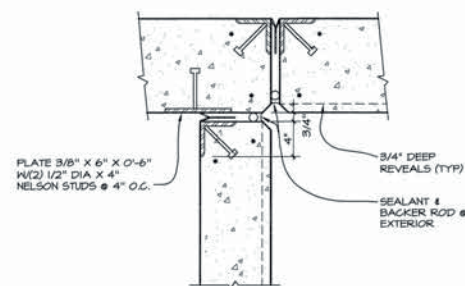
32 CHANNEL @ PANEL OPENINGS
A7 3" x 1'-0"



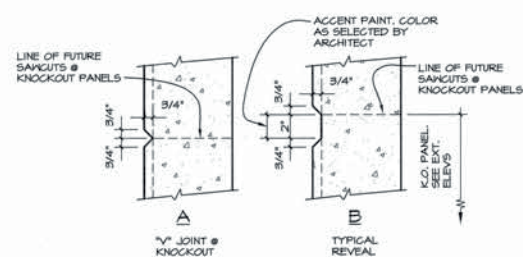
PLAN @ CORNER JOINT



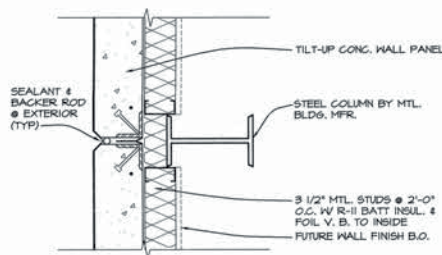
23 PLAN @ PANEL JOINT
A7 1" = 1'-0"



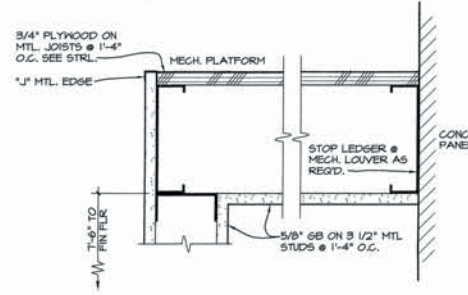
PLAN @ CORNER JOINT



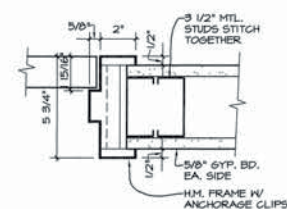
43 PANEL REVEALS
A7 1" = 1'-0"



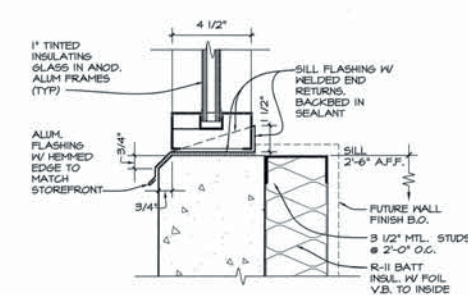
53 WALL @ COLUMN
A7 1 1/2" = 1'-0"



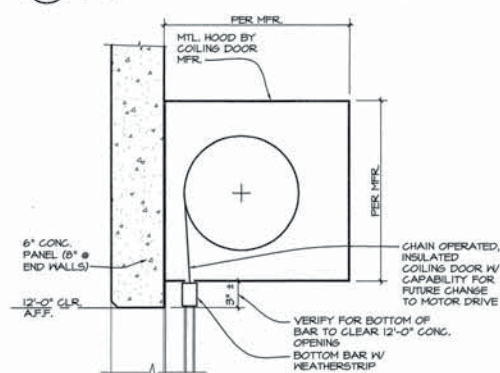
ELEC/TEL & S.R. ROOMS
@ CLG. LOOKING NORTH



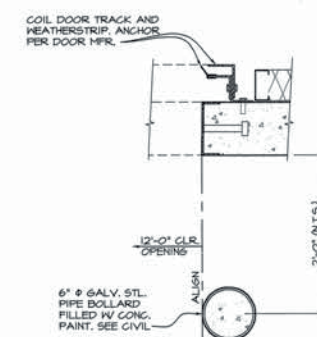
24 H.M. DOOR JAMB/HEAD
A7 3" x 1'-0"



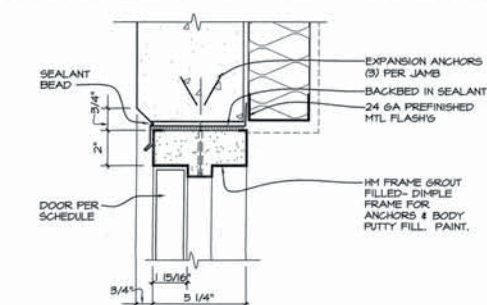
34 WINDOW SILL
A7 3" x 1'-0"



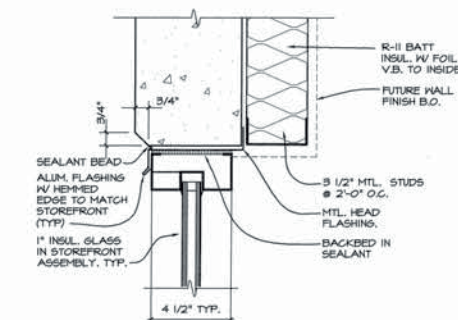
44 COIL DOOR HEAD
A7 1 1/2" x 1'-0"



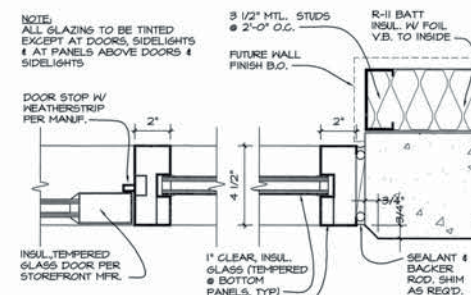
54 COIL DOOR JAMB
A7 1 1/2" x 1'-0"



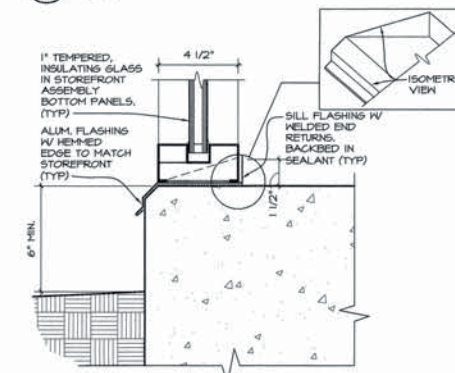
15 HM DOOR HEAD
A7 3"=1'-0" JAMB SIM



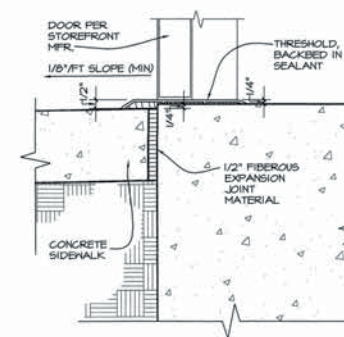
25 STOREFRONT HEAD TYP.
A7 3" x 1'-0"



35 STOREFRONT JAMBS TYP.
A7 3"x1'-0"



45 STOREFRONT SILL
A7 3" x 1'-0"



55
A7 THRESHOLD
3" = 1'-0"

STRUCTURAL NOTES - PRE-ENGINEERED METAL BUILDINGS

GOVERNING DESIGN CODE 1997 UNIFORM BUILDING CODE (U.B.C.) WITH THE 1998 WASHINGTON REVISIONS

LIVE LOADS

ROOF: 45 PSF MINIMUM ROOF SNOW LOAD (SNOW BUILD-UP LOADING IN ACCORDANCE WITH U.B.C. APPENDIX CHAPTER 16, DIVISION 1).

COLLATERAL LOADS

- 5 PSF MINIMUM COLLATERAL LOAD. IN ADDITION TO ALL OTHER BUILDING LOADS. THIS LOAD MAY NOT BE USED TO REDUCE WIND UPLIFT, AS COMPUTED BASED ON CURRENT UNIFORM BUILDING CODE.
- BASIC BUILDING DEAD LOAD, NOT INCLUDING 5 PSF COLLATERAL LOAD, SHALL NOT BE LESS THAN THE FOLLOWING:
 - LONG SELF-WEIGHT = METAL DECK PLUS PURLINS PLUS FRAMES
 - INSULATION WEIGHT = 1.0 PSF
 - MECHANICAL AND ELECTRICAL ALLOWANCE = 2 PSF
 - SPRINKLER LOADS = 2 PSF (INCLUDING EXTRA PURLINS, AS REQUIRED, FOR RUNS PARALLEL TO PURLINS)
- WIND U.B.C. 100 MPH EXPOSURE "C"
- SEISMIC U.B.C. ZONE 2B 1997 EDITION

DEFLECTION CRITERIA

FRAME LIVE LOAD L/180
PURLIN LIVE LOAD L/180
ROOF PANEL LIVE LOAD H/200
FRAME LATERAL H/200
WALL PANELS H/120

- THE GOVERNING CODE IS THE 1997 UNIFORM BUILDING CODE (U.B.C.) WITH THE 1998 WASHINGTON REVISIONS. ALL NEW CONSTRUCTION HAS BEEN DESIGNED FOR THE FOLLOWING LIVE AND SNOW LOADS, UNLESS NOTED OTHERWISE:
 - WIND U.B.C. 100 MPH EXPOSURE "C"
 - SEISMIC U.B.C. ZONE 2B
 - SNOW LOADS 45 PSF MINIMUM ROOF SNOW LOAD (SNOW BUILD-UP LOADING IN ACCORDANCE WITH U.B.C. APPENDIX CHAPTER 16, DIVISION 1).

STRUCTURAL NOTES**GENERAL**

- UNLESS OTHERWISE NOTED, MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL BE THOSE CONFORMING WITH THE VERSION OF THE APPLICABLE SPECIFICATION OR CODE MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. THESE STRUCTURAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND VERIFY ALL DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE (E).
- SHOP DRAWINGS SHALL BE REQUIRED ON REINFORCING STEEL, STRUCTURAL STEEL, AND METAL DECK, AND SHALL BE REVIEWED PRIOR TO FABRICATION. UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, SUBMIT ONE (1) PRINT AND ONE (1) REPRODUCIBLE FOR REVIEW.
- FIRST FLOOR SHALL BE PERMANENTLY ATTACHED TO WALLS OR SHORE WALLS PRIOR TO BACK-FILLING AGAINST STRUCTURE.
- THIS STRUCTURE AND ALL OF ITS PARTS MUST BE ADEQUATELY BRACED AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES. UNLESS OTHERWISE NOTED, THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN CONSTRUCTED AND ALL ATTACHMENTS AND CONNECTIONS NECESSARY FOR THE STABILITY OF THE STRUCTURE AND ITS PARTS HAVE BEEN MADE.
- ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
- ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- SPECIAL INSPECTION, SPECIAL TESTING AND REPORTING AND COMPLIANCE PROCEDURES, IN ACCORDANCE WITH CHAPTER 17 OF THE U.B.C., SHALL BE PROVIDED FOR THIS STRUCTURE PER THE FOLLOWING TABLE:

SPECIAL INSPECTION PROGRAM

TYPES OF WORK	CONTINUOUS	PERIODIC	COMMENTS
SOILS			
GRADING, EXCAVATION & FILL			REF. PROJECT SPECIFICATION
CONCRETE			
PLACEMENT OF REINFORCING STEEL			
BOLTS CAST IN CONCRETE			
PLACING OF REINFORCED CONCRETE			
TAKING OF TEST SPECIMENS			
STRUCTURAL WELDING			
SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16"			
FILLET WELDS EXCEEDING 5/16"			
GROOVE WELDS (FULL OR PARTIAL PEN)			
WELDED STUDS			
WELDED COLD FORMED FRAMING			
WELDED STAIR AND RAILING SYSTEMS			
HIGH STRENGTH (HS) BOLT INSTALLATION			
TYPE OR X HS BOLT			
TYPE SO HS BOLT			
OTHER			
ADHESIVE ANCHOR INSTALLATION			PER ICBO EVALUATION REPORT
EXPANSION BOLT INSTALLATION			PER ICBO EVALUATION REPORT

SPECIAL INSPECTION PROGRAM FOOTNOTES:

- PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO CHAPTER 17 OF THE UNIFORM BUILDING CODE WITH THE WASHINGTON STATE AMENDMENTS.
- SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION.
- PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, GENERAL CONTRACTOR AND SPECIAL INSPECTORS.
- DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
 - OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
 - FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, GENERAL CONTRACTOR AND GENERAL CONTRACTOR IN A TIMELY MANNER.
 - SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
- DUTIES OF THE GENERAL CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
 - NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED.
 - MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
 - PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
 - MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.
- DEFINITIONS:
 - CONTINUOUS INSPECTION: THE SPECIAL INSPECTOR IS OBSERVING THE WORK REQUIRING SPECIAL INSPECTION AT ALL TIMES.
 - PERIODIC INSPECTION: THE SPECIAL INSPECTOR IS ON SITE AS REQUIRED TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE.

SITE PREPARATION

PRE-ROLL THE AREA REGION ENCLOSED BY THE BUILDING PERIMETER PLUS 5'-0" MINIMUM WITH A HEAVY VIBRATORY ROLLER OR LOADED DUMP TRUCK, MAKING AT LEAST THREE (3) PASSES OVER THE ENTIRE REGION. ANY AREAS WHICH EXHIBIT EXCESSIVE WEAVING OR DEFLECTION UNDER THE WEIGHT OF THE ROLLER OR DUMP TRUCK SHALL BE OVER-EXCAVATED, AS NECESSARY, TO REMOVE ANY UNDESIRABLE SOILS, THEN BACK-FILLED WITH CLEAN, WELL-GRADED CRUSHED ROCK OR SAND-AND-GRAVEL MATERIAL.

CONSULT THE FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE ARCHITECT'S OFFICE, FOR ADDITIONAL INFORMATION.

STRUCTURAL FILL OR BACK-FILL

ALL FILL AND BACK-FILL PLACED IN THE BUILDING AREA AND BENEATH PAVED SURFACES SHALL BE DENSELY COMPACTED. SUCH FILLING AND BACK-FILLING SHALL BE ACCOMPLISHED AFTER REMOVING VEGETATION, RUBBISH AND EXISTING FILL. STRIPPING ALL TOP SOIL (FOUR INCHES (4") MINIMUM) AND RE-ROLLING WITHIN THE BUILDING AREA AND 5'-0" MINIMUM BEYOND AND PARKING AREAS OR FOLLOWING OVER-EXCAVATION IN FOOTING AREAS. IF OLD FILL OR SOFT NATURAL SUB-GRADE MATERIAL IS EXCAVATED, OVER-EXCAVATE AND REPLACE WITH COMPACTED FILL. ALL STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS (4" THICKNESS SHALL BE AS SPECIFIED IN THE GEOTECHNICAL REPORT) AND COMPACTED TO A DENSITY OF AT LEAST NINETY-FIVE PERCENT (95%) OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D 1557. THE ADEQUACY OF THE FIELD COMPACTION SHALL BE VERIFIED BY RANDOM FIELD DENSITY TESTS. STRUCTURAL FILL SHALL CONSIST OF A SAND AND GRAVEL MIXTURE OR CRUSHED ROCK (WELL GRADED FROM COARSE-TO-FINE WITH LESS THAN FIVE PERCENT (5%) BY WEIGHT OF THE MINUS THREE-FOURTHS INCH (3/4") FRACTION PASSING THE NO. 200 SIEVE) AND SHALL BE FREE OF ORGANIC MATERIAL, CLAY BALLS AND ROCKS LARGER THAN ONE AND ONE-HALF INCHES (1-1/2"). COMPACTION WITHIN FIVE FEET (5'-0") OF THE WALLS SHALL BE ACCOMPLISHED WITH LIGHT-WEIGHT, HAND-HELD EQUIPMENT. EXERCISE CARE SO WALLS ARE NOT DISPLACED OR CRACKED.

CONSULT THE FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE ARCHITECT'S OFFICE, FOR ADDITIONAL INFORMATION.

FOUNDATIONS

- FOUNDATION SIZES ARE BASED ON A TOTAL LOAD BEARING SOIL PRESSURE OF 1500 PSF.
- FOUNDATION ELEVATIONS SHOWN ARE TO BOTTOM OF FOOTINGS.
- ALL FOOTINGS SHALL BE FOUNDED ON FIRM ENGINEERED FILL COMPACTED TO MINIMUM OF NINETY-FIVE PERCENT (95%) OF THE ASTM D 1557 DENSITY.
- ALL FOOTINGS SHALL BE FOUNDED ON ENGINEERED GRANULAR FILL, 3'-0" MINIMUM IN DEPTH AND FOOTING WIDTH PLUS EXCAVATION DEPTH. CONSULT THE FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE ARCHITECT'S OFFICE, FOR ADDITIONAL INFORMATION.
- ALL FOOTINGS SHALL BE A MINIMUM OF 1'-6" BELOW FINAL GRADE OR 1'-0" BELOW EXISTING GRADE, WHICHEVER IS LOWER.
- ALL DISTURBED SOIL SHALL BE REMOVED BY HAND OPERATION FROM FOOTING EXCAVATION TO NEAT LEVEL.
- BOTTOMS OF FOOTINGS SHALL BE STEPPED FROM ELEVATION TO ELEVATION AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL, WITH A MAXIMUM VERTICAL STEP OF 2'-0".
- CONSULT THE FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE ARCHITECT'S OFFICE, FOR ADDITIONAL INFORMATION.

CONCRETE REINFORCING STEEL

- ALL REINFORCING STEEL FOR THE CONCRETE SHALL CONFORM WITH ASTM A 615 GRADE 60.
- ALL WELDING OF REINFORCING STEEL, METAL INSERTS AND CONNECTIONS SHALL CONFORM WITH A.W.S. D.14 REINFORCING (MINIMUM UNLESS NOTED OTHERWISE ON PLANS).
- REINFORCING FOR WALLS:
 - 6-1/2" VERTICAL NO. 5 AT 12" ON CENTER, HORIZONTAL NO. 5 AT 12" ON CENTER
 - 8" VERTICAL NO. 5 AT 12" ON CENTER, HORIZONTAL NO. 5 AT 12" ON CENTER
 - PLACE TWO (2) NO. 5 CONTINUOUS AT BOTTOM, TOP AND AT DISCONTINUOUS ENDS OF ALL FOUNDATIONS AND WALLS AND AT PERIMETERS OF PRE-CAST PANELS.
 - PLACE 2-0" X 2-0" BARS AT CORNERS AND INTERSECTIONS FOR WALLS AND FOUNDATIONS EQUAL IN SIZE AND NUMBER TO HORIZONTAL REINFORCING AND AT PRE-CAST PANEL CORNERS.
 - PLACE TWO (2) NO. 5 X OPENING WIDTH PLUS 4'-0" TOP AND BOTTOM, TWO (2) NO. 5 X OPENING HEIGHT PLUS 4'-0" EACH SIDE, PLUS TWO (2) NO. 5 X 4'-0" DIAGONAL BARS AT EACH CORNER OF ALL WALL AND PRE-CAST PANEL OPENINGS.
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. DETAILING MANUAL 315.
 - ALL REINFORCING STEEL SHALL BE ACCURATELY AND SECURELY PLACED.
 - REINFORCING SHALL NOT BE BENT OR DISPLACED FOR THE CONVENIENCE OF OTHER TRADES, UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - SPRAY REINFORCING STEEL AROUND OPENINGS WITH 1" IN 10" SPLAY, UNLESS NOTED OTHERWISE.
 - MINIMUM COVER FROM CONCRETE SURFACES TO REINFORCING STEEL SHALL BE:
 - 2" ± 1/2" TO BOTTOM OF FOOTING
 - 1-1/2" ± 1/4" TO EXTERIOR FACE OF WALL
 - 1-1/2" ± 1/4" TO INSIDE FACE OF WALL AND TILT-UP PANELS
- REINFORCING LAP SPICES, CONFORM WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AS SHOWN BELOW, UNLESS NOTED OTHERWISE ON DRAWINGS:

BAR SIZE	LAP SPICE LENGTH (INCHES)					
	2500 PSI		3000 PSI		4000 PSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	31	24	28	22	24	19
#4	41	32	37	29	32	25
#5	51	39	47	36	40	31
#6	61	47	56	43	48	37
#7	69	69	61	63	70	54
#8	102	78	93	72	80	62

LAP SPICE NOTES:

- "TOP BARS" ARE DEFINED AS HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS PLACED BELOW THE BARS.
- SPICE LENGTH BARS, CLASS B SPICE, WITH CENTER-TO-CENTER BAR SPACING OF GREATER THAN 3 BAR DIAMETERS.
- ELECTRICAL CONDUIT SHALL BE PLACED NEAR THE CENTER OF THE SLAB.
- REINFORCEMENT BARS SHALL NOT BE TACK WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE - CAST-IN-PLACE

- ALL CONCRETE SHALL DEVELOP A MINIMUM TWENTY- EIGHT (28) DAY LABORATORY-CURED COMPRESSIVE CYLINDER STRENGTH OF:
 - 2500 PSI FOR FOOTINGS
 - 4000 PSI FOR INTERIOR SLABS-ON-GRADE
 - 3000 PSI FOR OTHER CONCRETE AND CAST-IN-PLACE WALLS
 - 4000 PSI FOR PANELS
- CONCRETE EXPOSED TO ELEMENTS SHALL HAVE 5% ± 1% ENTRAINMENT AIR, BY VOLUME, CONFORMING WITH ASTM C 260.
- A MINIMUM OF THREE (3) CONCRETE TEST CYLINDERS SHALL BE PROVIDED FOR EACH ONE HUNDRED (100) CU. YARDS, OR EACH DAY OF POUR, FOR EACH CONCRETE STRENGTH. CYLINDERS SHALL BE TESTED AS FOLLOWS: ONE (1) AT SEVEN (7) DAYS AND TWO (2) AT TWENTY- EIGHT (28) DAYS.
- CONCRETE CYLINDER SAMPLING AND TESTING SHALL CONFORM WITH ASTM SPECIFICATIONS. ACCEPTANCE OF CONCRETE SHALL BE GOVERNED BY THE PROVISIONS OF A.C.I. 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". TWO (2) SETS OF MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, SHALL BE SUBMITTED FOR REVIEW.
- CONCRETE MATERIALS, FORM WORK, MIXING, PLACING AND CURING SHALL CONFORM WITH THE SPECIFICATIONS CONTAINED IN THE A.C.I. "MANUAL OF CONCRETE PRACTICE".
- AT AREAS OF DEPRESSIONS FOR SLABS, PROVIDE MINIMUM THICKNESS OF DEPTH AS FOR ADJACENT AREAS, UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS BETWEEN FOOTINGS AND WALLS, COLUMNS OR PLASTERS AND THE SLABS THEY SUPPORT AND WALL CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING TO A FULL AMPLITUDE OF APPROXIMATELY 1/4", LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LATIENCE. CONSTRUCTION JOINTS SHALL HAVE 2X KEYHOLE WHERE INDICATED IN THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT FOR REVIEW DETAILS OF PROPOSED CONSTRUCTION JOINTS NOT DETAILED IN THE STRUCTURAL DRAWINGS.
- CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND.
- ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFER, UNLESS NOTED OTHERWISE.

CONCRETE - PRE-CAST

REINFORCING SHOWN ON PANEL DETAILS IS DESIGNED FOR FORCES OCCURRING AFTER PANEL IS IN PLACE AND TIED TO ROOF DIAPHRAGMS. USE STRONGBACKS AND EXTRA REINFORCING, AS REQUIRED AND DIRECTED BY PANEL ERECTOR, FOR ERECTION PURPOSES. STRUCTURAL ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR ERECTION.

PRE-CAST CONCRETE UNITS SHALL BE NORMAL WEIGHT AGGREGATE CONCRETE, WITH A MINIMUM TWENTY- EIGHT (28) DAY, LABORATORY-CURED COMPRESSIVE CYLINDER STRENGTH OF 4000 PSI. REINFORCE PANELS AS PER CONCRETE REINFORCING STEEL SECTION OF THE STRUCTURAL NOTES AND AS NOTED ON THE DRAWINGS.

NON-SHRINK GROUT SHALL BE NON-SHRINKABLE GROUT CONFORMING WITH ASTM C 1107 AND C.R.D. 421, CORPS OF ENGINEERS "SPECIFICATIONS FOR NON-SHRINK GROUT". GROUT SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT TWENTY- EIGHT (28) DAYS OF 5000 PSI. PRE-GROUTING OF BASE PLATES WILL NOT BE PERMITTED.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

- STRUCTURAL STEEL SHALL CONFORM WITH THE FOLLOWING REQUIREMENTS:
 - STRUCTURAL STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM WITH ASTM A 992.
 - STRUCTURAL STEEL FOR ANGLES, TEES, CHANNELS AND PLATE SHALL CONFORM WITH ASTM A 36.
 - STRUCTURAL TUBES SHALL CONFORM WITH ASTM A 500, GRADE B, FY = 46 KSI.
 - STRUCTURAL PIPE SHALL CONFORM WITH ASTM A 53, GRADE B, TYPE S, FY = 35 KSI.
- ALL FABRICATION, ERECTION, IDENTIFICATION AND PAINTING OF STRUCTURAL STEEL SHALL CONFORM WITH A.I.S.C. SPECIFICATIONS.
- ALL WELDING SHALL CONFORM WITH A.W.S. SPECIFICATIONS.
 - ALL WELDERS SHALL BE QUALIFIED UNDER A.W.S. SPECIFICATIONS.
 - WELDS SHALL BE MADE WITH 70 KSI FILLER METAL, UNLESS NOTED OTHERWISE. MOMENT FRAME WELDS SHALL BE MADE WITH LOW HYDROGEN FILLER METALS.
 - WELDING OF REINFORCING STEEL SHALL BE AS SPECIFIED IN THESE STRUCTURAL NOTES UNDER "CONCRETE REINFORCING STEEL".
 - WELDS TO METAL DECK, METAL STUDS OR OTHER LIGHT GAUGE METALS SHALL CONFORM WITH AWS D1.3 HEADED STUDS (H.S.) AND SHEAR CONNECTORS SHALL BE MADE FROM COLD-DRAWN BAR STOCK CONFORMING WITH THE REQUIREMENTS OF ASTM A 108, GRADES 1010 THROUGH 1018 INCLUSIVE. STUDS SHALL BE INSTALLED AND INSPECTED IN ACCORDANCE WITH CHAPTER 7 (BUT WELDING OF A.W.S. D1.1 "STRUCTURAL WELDING CODE-STEEL". IN ADDITION TO THAT SHOWN ON THE DRAWINGS, SHEAR CONNECTOR SPACING SHALL BE IN ACCORDANCE WITH THE A.I.S.C. "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL MEMBERS SHALL BE CONNECTED WITH SEMI-FINISHED MACHINE BOLTS, UNLESS NOTED OTHERWISE ON PLANS. MACHINE BOLTS SHALL CONFORM TO ASTM A 307, GRADE A, EXCEPT METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR BUILDING BOLT SPECIFICATIONS.
- EXPANSION ANCHORS SHALL BE I.C.B.O. APPROVED (HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153) AND CONFORM WITH PS F-3525, GROUP I, TYPE A, CLASS 1. ACCEPTABLE ANCHORS ARE "RED-HEAD WEDGE ANCHORS" AS MANUFACTURED BY ITW RAMSEY/HEAD, "POWER-STUD" AS MANUFACTURED BY POWERS FASTENING, INC., OR HILTI "XWIK-BOLT" IF AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ANCHOR BOLTS SHALL CONFORM WITH ASTM A 307, GRADE A, AND SHALL BE PROVIDED WITH STANDARD WASHERS AND NUTS. GALVANIZE EXTERIOR BOLTS. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A 153, CLASS C. NUTS SHALL BE OVER-TAPPED TO CLASS 2A FIT BEFORE GALVANIZING, IN ACCORDANCE WITH ASTM A 963.
- BOLT HEADS OR NUTS BEARING ON SLOPING FLANGES SHALL BE EQUIPPED WITH REVELED WASHERS.
- ERECTION AIDS (SUCH AS BOLTS, CLIPS, SHIMS, SEATS OR ANY OTHERS REQUIRED TO FACILITATE CONSTRUCTION) ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND PROVIDE.
- ALL BRACING SHALL HAVE TWO (2) BOLT CONNECTIONS, UNLESS NOTED OTHERWISE. ALL CROSS BRACING SHALL BE BOLTED AT INTERSECTIONS WITH TWO (2) BOLT MINIMUM FOR WT AND ONE (1) BOLT FOR ANGLES. PROVIDE FILLER PLATE BETWEEN CROSS BRACES, AS REQUIRED.
- ALL FIELD WELDS TO GALVANIZED STEEL AND AREAS DAMAGED BY WELDING, FLAME CUTTING OR HANDLING, SHALL BE REPAIRED WITH AN ORGANIC COLD GALVANIZING COMPOUND HAVING A MINIMUM OF NINETY-FOUR PERCENT (94%) ZINC DUST IN THE DRY FILM. APPLY IN MULTIPLE COATS, UNTIL A 8 MIL THICKNESS HAS BEEN ACHIEVED. SURFACES TO RECEIVE ZINC-RICH PAINT SHALL BE CLEAN, DRY AND FREE OF OIL, GREASE, SALT AND CORROSION PRODUCTS.
- ALL HAND RAILS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 123.
- ALL EMBEDDED STEEL SHALL BE FABRICATED FROM MATERIAL CONFORMING WITH THE REQUIREMENTS OF ASTM A 36. HOT-DIP GALVANIZE IN ACCORDANCE WITH ASTM A 123, UNLESS NOTED OTHERWISE.

LIGHT GAUGE STEEL FRAMING

- STEEL IS TO BE:
 - ASTM A 446 GRADE D (FY = 50 KSI) FOR 12 AND 16 GAUGE.
 - ASTM A 446 GRADE A (FY = 33 KSI) FOR 18 GAUGE AND LIGHTER.
- ALL FABRICATION, ERECTION AND IDENTIFICATION OF LIGHT GAUGE STEEL FRAMING SHALL CONFORM WITH U.B.C. STANDARD 27-9 AND A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
- FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS.
- STEEL STUDS OR JOISTS SHALL BE "S" STUDS WITH STIFFENED LIPS, UNLESS NOTED OTHERWISE, AS MANUFACTURED BY KNORR STEEL FRAMING SYSTEM. MEMBERS OF THE METAL STUD MANUFACTURER'S ASSOCIATION, OR APPROVED, SIZES AND GAUGE ARE AS NOTED ON DRAWINGS.
- PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
- END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
- JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS, UNLESS NOTED OTHERWISE.
- SPICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
- EACH PLATE OF STUDS SHALL BE SECURELY ATTACHED TO FLANGES OF BOTH UPPER AND LOWER RUNNERS.
- WHE METAL STUDS ARE USED AS BEARING WALLS IN CONSTRUCTION, STUDS MUST FIT TIGHTLY INTO THE TOP AND BOTTOM TRACKS. END GAPS WILL NOT BE ALLOWED.

FRAMING LUMBER

- ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH, AS NOTED BELOW, AND SHALL BE GRADED UNDER THE MOST RECENTLY-ADOPTED RULES OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.).
 - SIZE CLASSIFICATION
NO. 2
 - JOISTS
NO. 1
 - BEAMS
NO. 1
 - POSTS
NO. 1
- BLOCKING, PLATES, BRIDGING
STANDARD OR BETTER OR STUD GRADE
- ALL MEMBERS 3X OR LESS (LEAST DIMENSIONS) SHALL BE 19% MOISTURE CONTENT, MAXIMUM.
- PROVIDE SOLID BLOCKING (SAME DEPTH OF MEMBER) AT ALL POINTS OF BEARING. SOLID BRIDGING AT 8'-0" ON CENTER MAXIMUM SHALL BE REQUIRED WHERE JOISTS HAVE A FIVE-TO-ONE (5:1) OR GREATER DEPTH-TO-THICKNESS RATIO AND WHERE ONE (1) EDGE IS NOT HELD IN LINE BY SHEATHING, WALLBOARD, BRACING, ETC.
- ALL PLATES AND LEDGERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH A.W.P.A. STANDARD C-2. PRESSURE-TREATED LUMBER SHALL BEAR THE A.W.P.B. (AMERICAN WOOD PRESERVERS BUREAU) QUALITY MARK.
- DOUBLE ALL JOISTS UNDER ALL PARALLEL PARTITIONS.
- FOR NAILING, SEE SCHEDULE AND DRAWINGS.

PLYWOOD SHEATHING

- ALL PLYWOOD SHEATHING SHALL BE C-D GRADE, UNLESS NOTED OTHERWISE (WITH EXTERIOR GLUE MANUFACTURED IN ACCORDANCE WITH UNITED STATES PRODUCT STANDARD PS 1-831A N.S.I. A199-1 "FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", SHALL CONFORM WITH U.B.C. STANDARD 23-2 AND SHALL BEAR THE A.P.A. TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
- PLATFORM FLOOR 3/4" INDEX 4824 T&G
- NAIL IN ACCORDANCE WITH SCHEDULE AND DRAWINGS.
- LAY OUT PLYWOOD TO ELIMINATE ANY WIDTH LESS THAN 1'-0", EXCEPT AT PLYWOOD FLOORS WHERE MINIMUM DIMENSION SHALL BE 2'-0". UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY BLOCKING.
- WAFER BOARD OR ORIENTED STRAND BOARD CONFORMING WITH U.B.C. STANDARD 23-34, GRADE 2-M-W, MANUFACTURED WITH EXTERIOR GLUE, MAY BE SUBSTITUTED FOR PLYWOOD, PROVIDED IT HAS EQUAL LOADSPAN RATING INDEX AND BEARS THE A.P.A. TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
- CONTRACTOR IS TO PROTECT FLOOR SHEATHING FROM EXTREME WET CONDITIONS TO LIMIT MOVEMENTS DUE TO EXPANSION CAUSED BY MOISTURE. ADDITIONALLY, PROVIDE PROPER PANEL SPACINGS PER THE AMERICAN PLYWOOD ASSOCIATION RECOMMENDATIONS.

NAILING AND CONNECTION SCHEDULE
MINIMUM NUMBER OF NAILS FOR WOOD MEMBERS
(EXCEPT AS NOTED ON DRAWINGS)

- CONNECTION
- PLATFORM FLOOR SHEATHING 3/4" INDEX 4824 T&G
AT EDGES OF EACH SHEET, BLOCKING & WALLS 100 AT 6" ON CENTER
AT INTERIOR OF SHEETS 100 AT 16" ON CENTER
AT BOUNDARIES OF FLOOR 100 AT 6" ON CENTER
APPLY A 1/4" DIAMETER CONTINUOUS BEAD OF CONSTRUCTION ADHESIVE CONFORMING WITH AFG-01 TO TOPS OF ALL JOISTS, BLOCKING AND PLATES IMMEDIATELY PRIOR TO PLACING PANELS.

OTHER WOOD CONNECTIONS

- ALL PLATES AND LEDGERS SHALL BE ANCHORED WITH A MINIMUM OF THREE (3) ANCHORS PER PIECE. MINIMUM SIZE AND MAXIMUM SPACING.
- EXPANSION ANCHOR EMBEDMENTS (UNLESS NOTED OTHERWISE)
 - 1/2" DIAMETER WITH 2-1/2" MINIMUM EMBEDMENT
 - 3/8" DIAMETER WITH 2" MINIMUM EMBEDMENT
 - 3/4" DIAMETER WITH 3-1/2" MINIMUM EMBEDMENT
- ALL FRAMING CONNECTORS SHALL BE SIMPSON OR APPROVED. FILL ALL NAIL HOLES WITH NAILS AS SPECIFIED BY THE HANGER MANUFACTURER, UNLESS NOTED OTHERWISE. HANGERS TO DEVELOP FULL STRENGTH OF MEMBERS, PROVIDE STANDARD PLATE WASHERS UNDER HEADS OR NUTS OF BOLTS BEARING ON WOOD.

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360-693-1621
503-289-2661



BUILDING 1D
KLUCKITAT COUNTY PORT DISTRICT No. 1
BRECKEN, WASHINGTON

DATE	MARCH 10, 2008
DRAWN	GM
CHECKED	SUDS
DRAWING TITLE	

STRUCTURAL NOTES

SO

PROJECT
0223

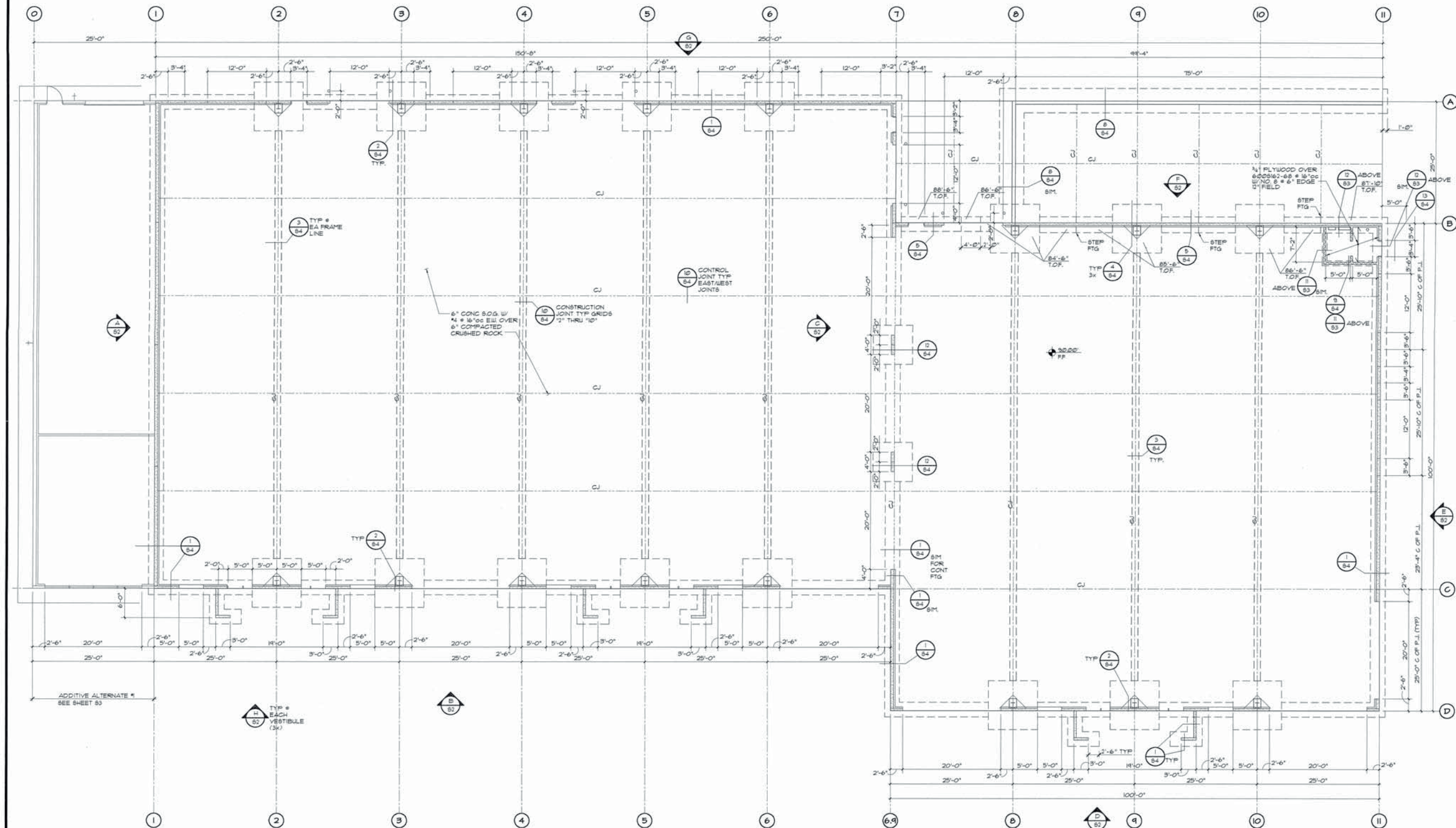
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BUILDING 1D
Klickitat County Port District No. 1
BRIGEN, WASHINGTON

DATE	MARCH 10, 2003
DRAWN	SM
CHECKED	SJD/S
DRAWING TITLE	FOUNDATION PLAN

DRAWING	S1
PROJECT	0223
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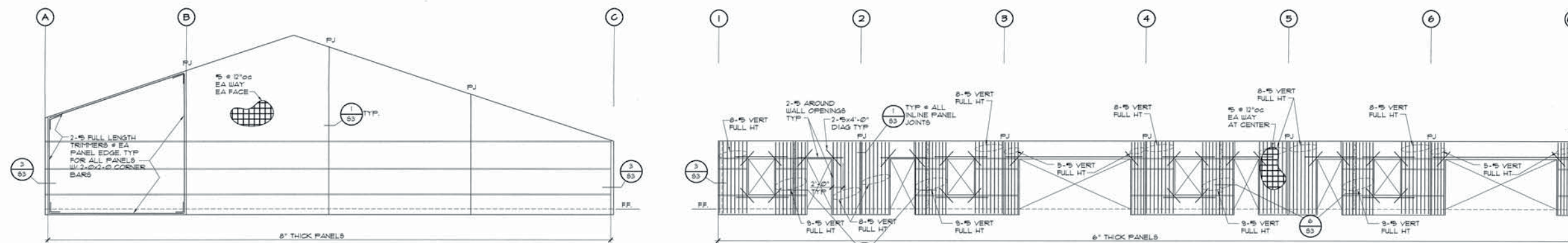


A
S1

FOUNDATION PLAN

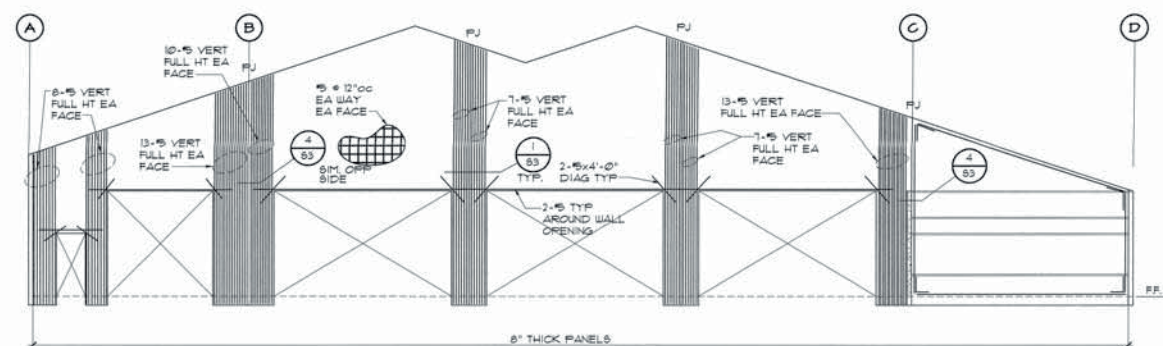
1/8" = 1'-0"

NOTES:
1. SEE 1/84 FOR STRUCTURAL FILL
BELOW FOOTINGS.

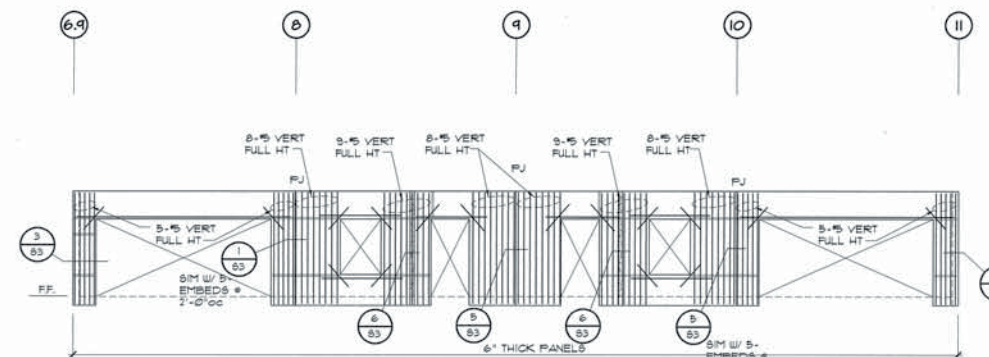


(A) WEST ELEVATION
1/8"=1'-0"

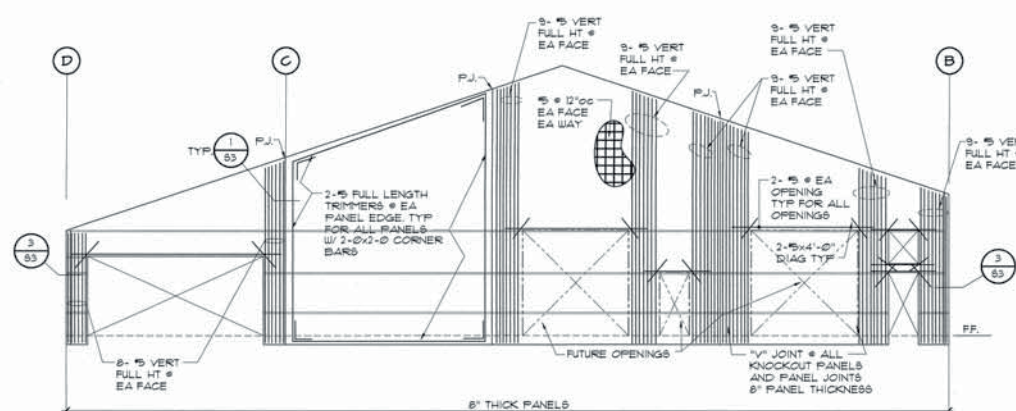
(B) SOUTH ELEVATION
1/8"=1'-0"



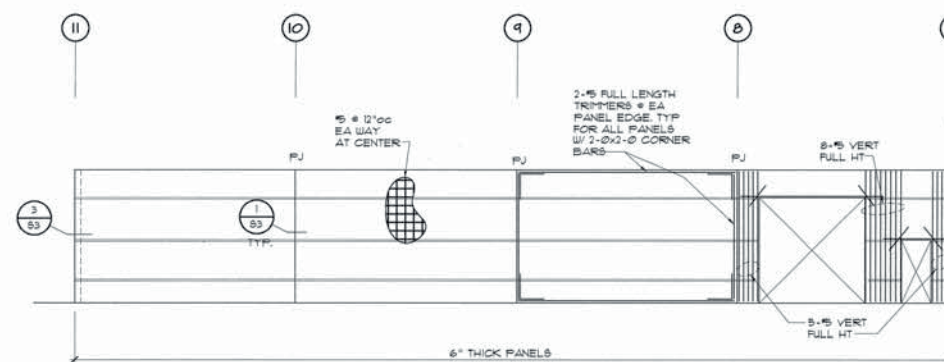
(C) INTERIOR ELEVATION ALONG GRID 1
1/8"=1'-0"



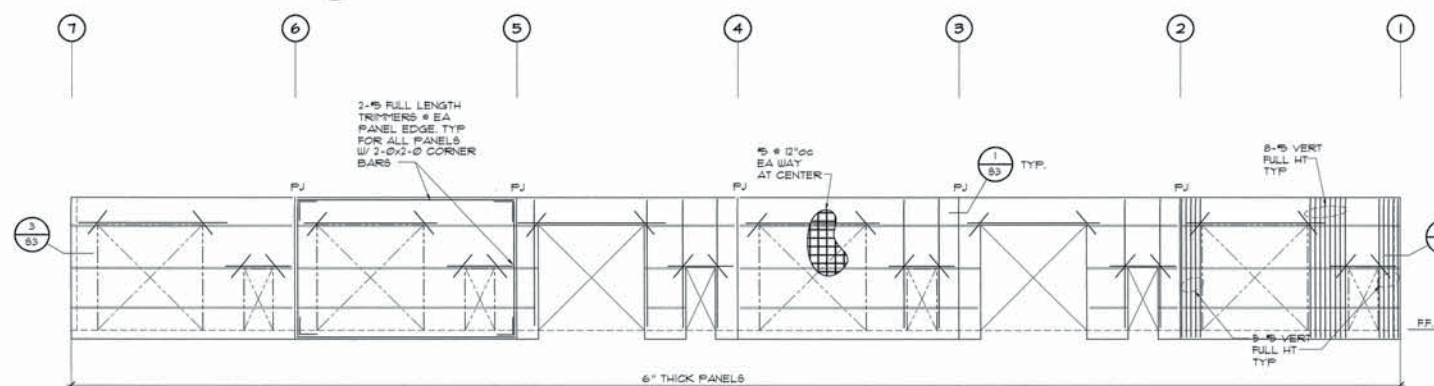
(D) SOUTH ELEVATION
1/8"=1'-0"



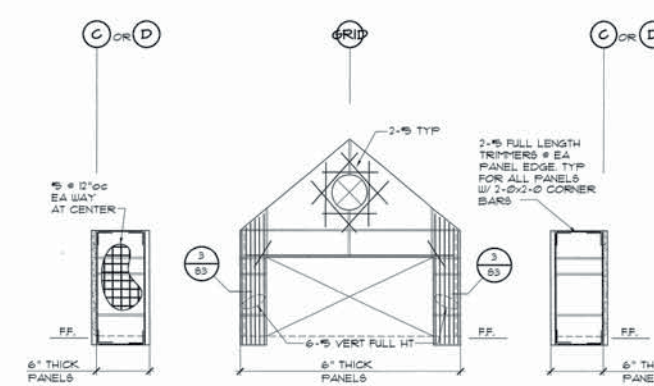
(E) EAST ELEVATION
1/8"=1'-0"



(F) NORTH ELEVATION
1/8"=1'-0"



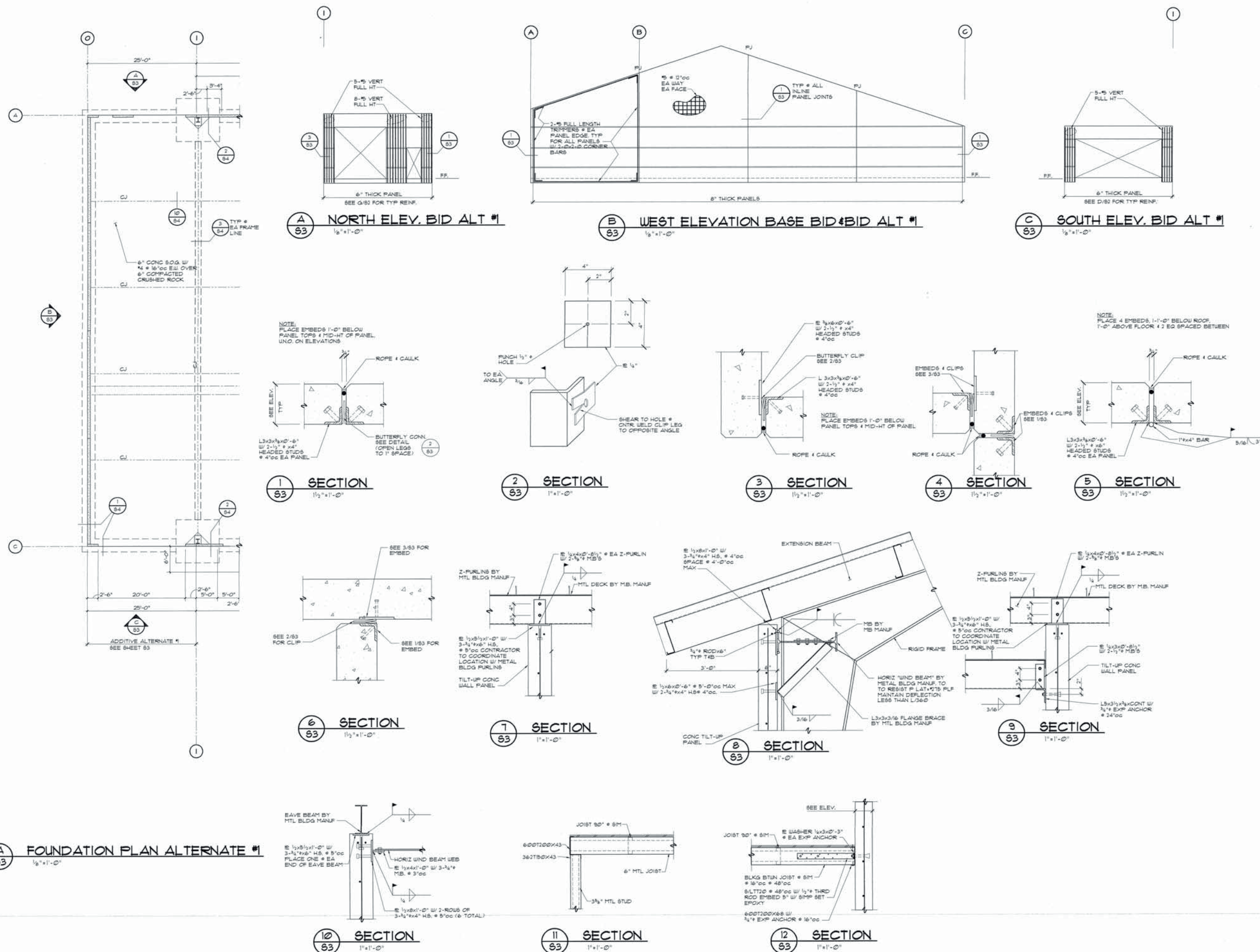
(G) NORTH ELEVATION
1/8"=1'-0"

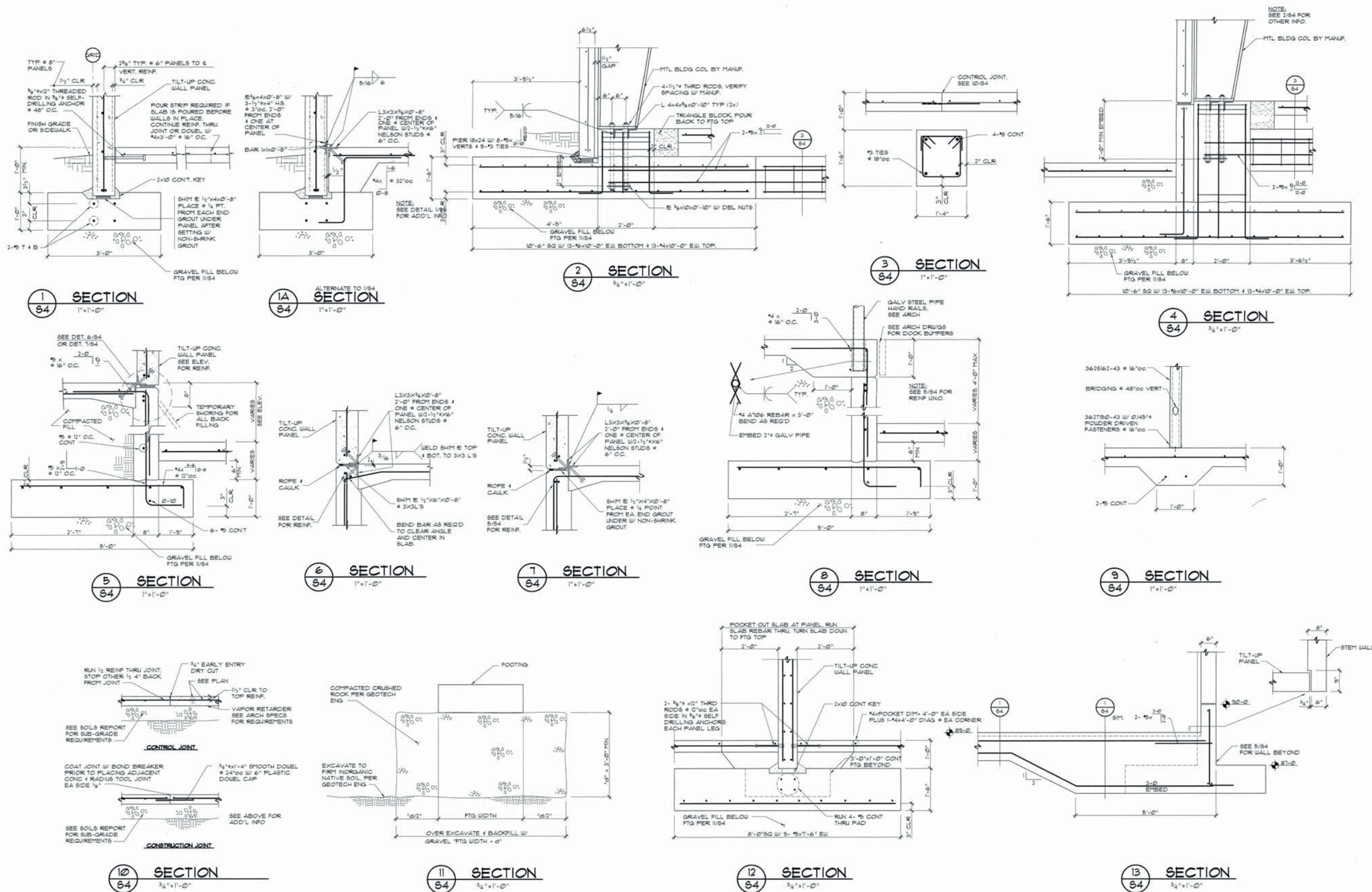


(H) ENTRY PANEL ELEVATION
1/8"=1'-0"

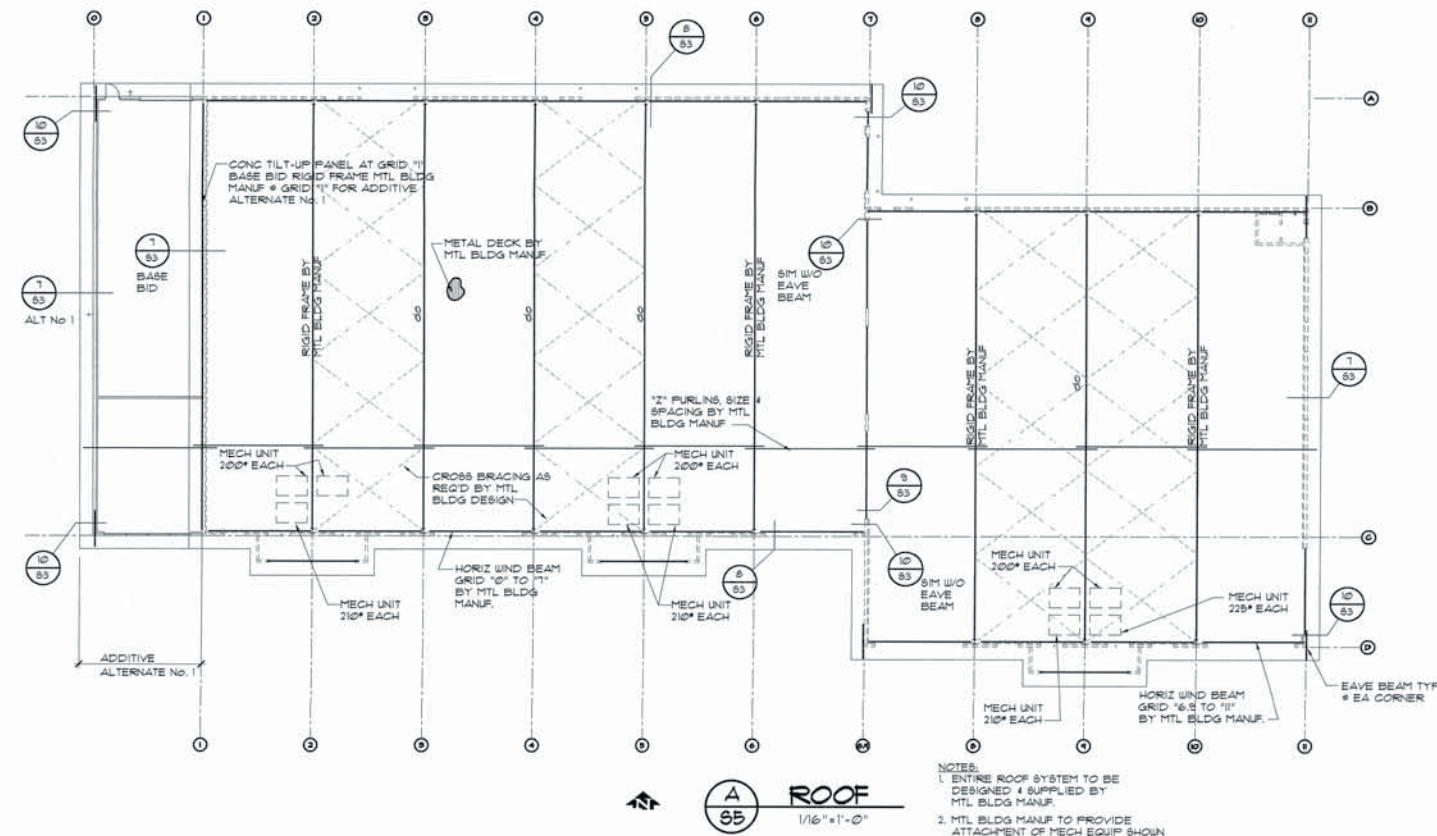
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CHECKED: SJD
DRAWING TITLE: WALL ELEVATIONS

DRAWING: **S2**
PROJECT: 0223
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Revised: Mar 20, 2003 - 1.54pm, Modified: 03-20-03
X:\0416_TBA_0223-PROJ_0223-PROJ\TITLE_0223-PROJ



NOTES:
1. ENTIRE ROOF SYSTEM TO BE DESIGNED & SUPPLIED BY MTL BLDG MANUF.
2. MTL BLDG MANUF TO PROVIDE ATTACHMENT OF MECH EQUIP SHOWN.



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503-289-2661



BUILDING 1D
Klickitat County Port District No. 1
BRIDGE, WASHINGTON

DATE	MARCH 10, 2003
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SM	SJDG
DRAWING TITLE	

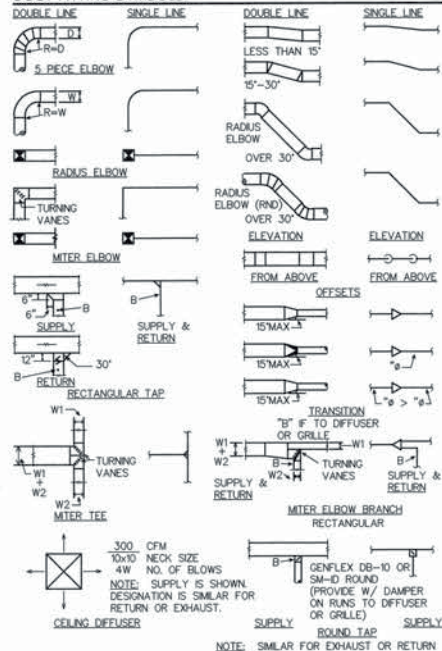
ROOF FRAMING

DRAWING
S5

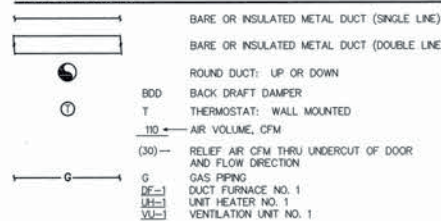
PROJECT
0223

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DUCT FITTING SYMBOLS



HVAC SYMBOLS



MECHANICAL EQUIPMENT

- | | |
|---------|--|
| 1. CF-2 | GREENECK SP-65
71 CFM @ 0.25" SP
50 WATT INPUT
WEIGHT: 15 LBS
CONTROL WITH THERMOSTAT
SET TO 75°F |
| 2. DF-1 | REZOR HEDDU 100
1215 CFM
HEATING INPUT: 100,000 BTUH
OUTPUT: 80,000 BTUH
AFUE: 80%
WEIGHT: 130 LBS |
| 3. UH-1 | REZOR FE-75
980 CFM
HEATING INPUT: 75,000 BTUH
OUTPUT: 60,000 BTUH
EFFICIENCY: 80%
WEIGHT: 115 LBS |
| 4. VU-1 | GREENECK BOF 90
1215 CFM @ 0.625" SP
0.27 BHP @ 1/2 HP MOTOR
WEIGHT WITH FILTER BOX
WEIGHT, W/ FILTER BOX: 125 LBS |

STOICHIOMETRIC COMBUSTION AIR CALCULATION

NATURAL GAS = 9.6 FT3 AR/ FT3 FUEL (1000 BTU/FT3)
= 400 FT2

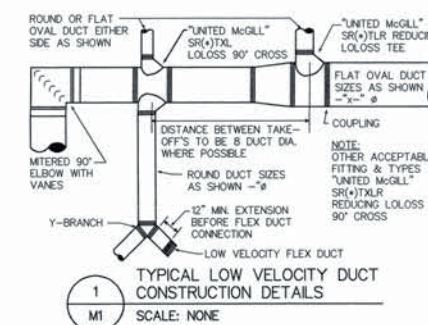
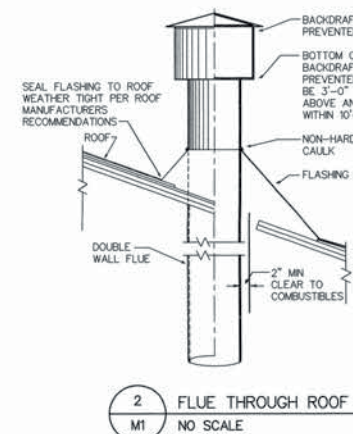
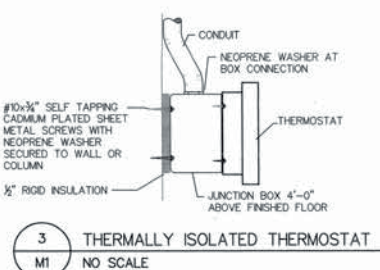
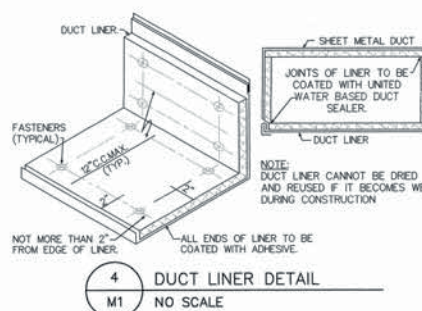
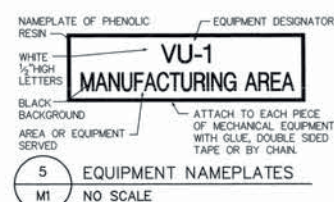
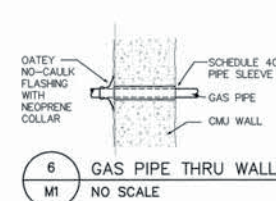
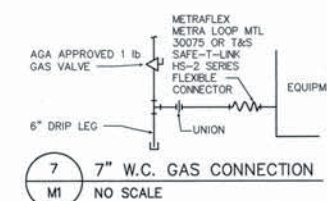
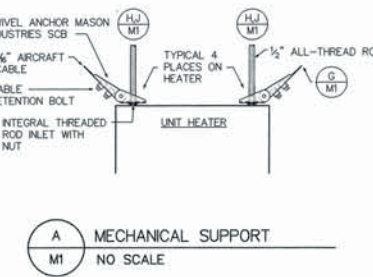
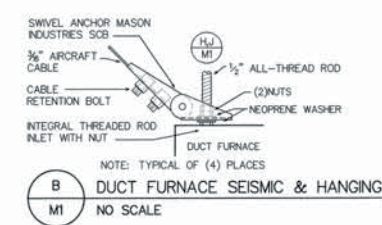
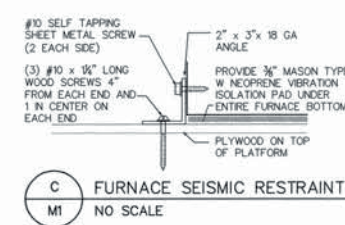
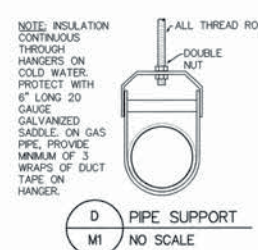
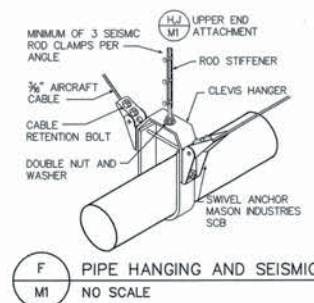
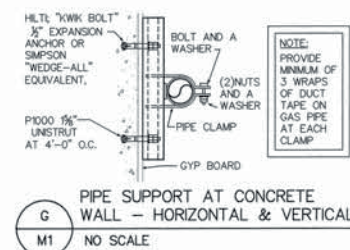
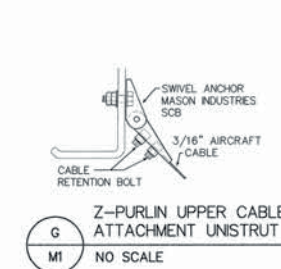
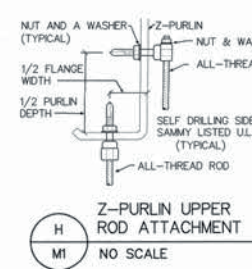
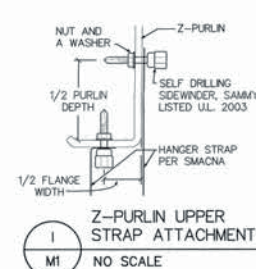
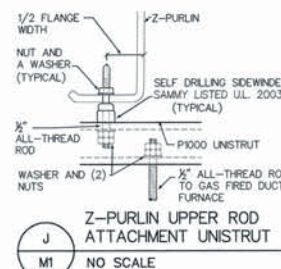
$$\frac{\text{FT3 AR/HR} = 9.6 \times 400}{60 \text{ MIN/HR}} = 64 \text{ FT3 AR/MIN}$$

VU-1 SUPPLIES 215 CFM AND OPERATES CONTINUOUSLY
COMBUSTION AIR REQUIREMENT IS MET

DUCT CONSTRUCTION DETAIL

DIMENSION OF LONGEST SIDE (ALL INCHES)	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE, SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS & /OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			AT JOINTS				
			MIN. H. N.	 DRIVE SLP  PLAIN SLP	 HEMMED SLP	 ALTERNATE BAR SLP	 REINFORCING BAR SLP
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"x1 1/2" @ 60 IN	1	-	24	24	24
31 - 45	22	1"x1 1/2" @ 60 IN	1	-	-	22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.



BUILDING 1D
KLICKITAT COUNTY PORT DISTRICT No. 1
SINGEN, WASHINGTON

DATE	
MARCH 10, 2008	
DRAWN	CHECKED
SC	LS

HVAC EQUIPMENT SYMBOLS AND DETAILS

DRAWING

M1

PROJECT 03010

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BLANK OFF. SEAL AIR TIGHT.
COVER WITH R-11 BUILDING
INSULATION

DRAWING

M2

PROJECT

03010

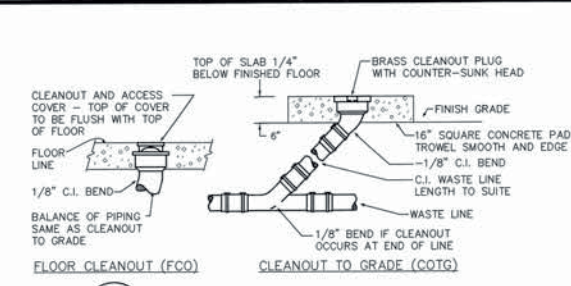
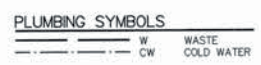
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1 HVAC FLOOR PLAN
M2 1/8" = 1'-0"

M:\000\10001000\10001000\10001000.dwg, P21, 03/13/03 10:18:13 AM, Design\10001000\10001000.dwg, 1000, Paraclete PS Inc., Nancy

PLUMBING EQUIPMENT SCHEDULE AND SPECIFICATIONS									
DESIG.	DESCRIPTION	CONNECTION						FITTINGS	REMARKS
		CW	HW	V	W	ID	G		
COTG-1	CLEANOUT TO GRADE	---	---	---	---	---	---	J.R. SMITH FIGURE 4239-U-NB, NO RUB.	SAME SIZE AS MAIN TO 4". PROVIDE CODE APPROVED PLUG. SEE DETAIL (P21)
DOV-1	DOUBLE CHECK VALVE ASSEMBLY	2"	---	---	---	---	---	WATTS SERIES NO. 007, 2" WITH TEST PORTS	MOUNT VERTICAL IN COLD WATER RISER. TEST PORTS TO BE ACCESSIBLE. SEE DETAIL (P21)
FCO-1	FLOOR CLEANOUT	---	---	---	---	---	---	J.R. SMITH FIG. 4093-U	SAME SIZE AS MAIN TO 4". SEE DETAIL (P21)
HB-1	HOSE BIB	3/4"	---	---	---	---	---	J.R. SMITH FIG. 54092T NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER	



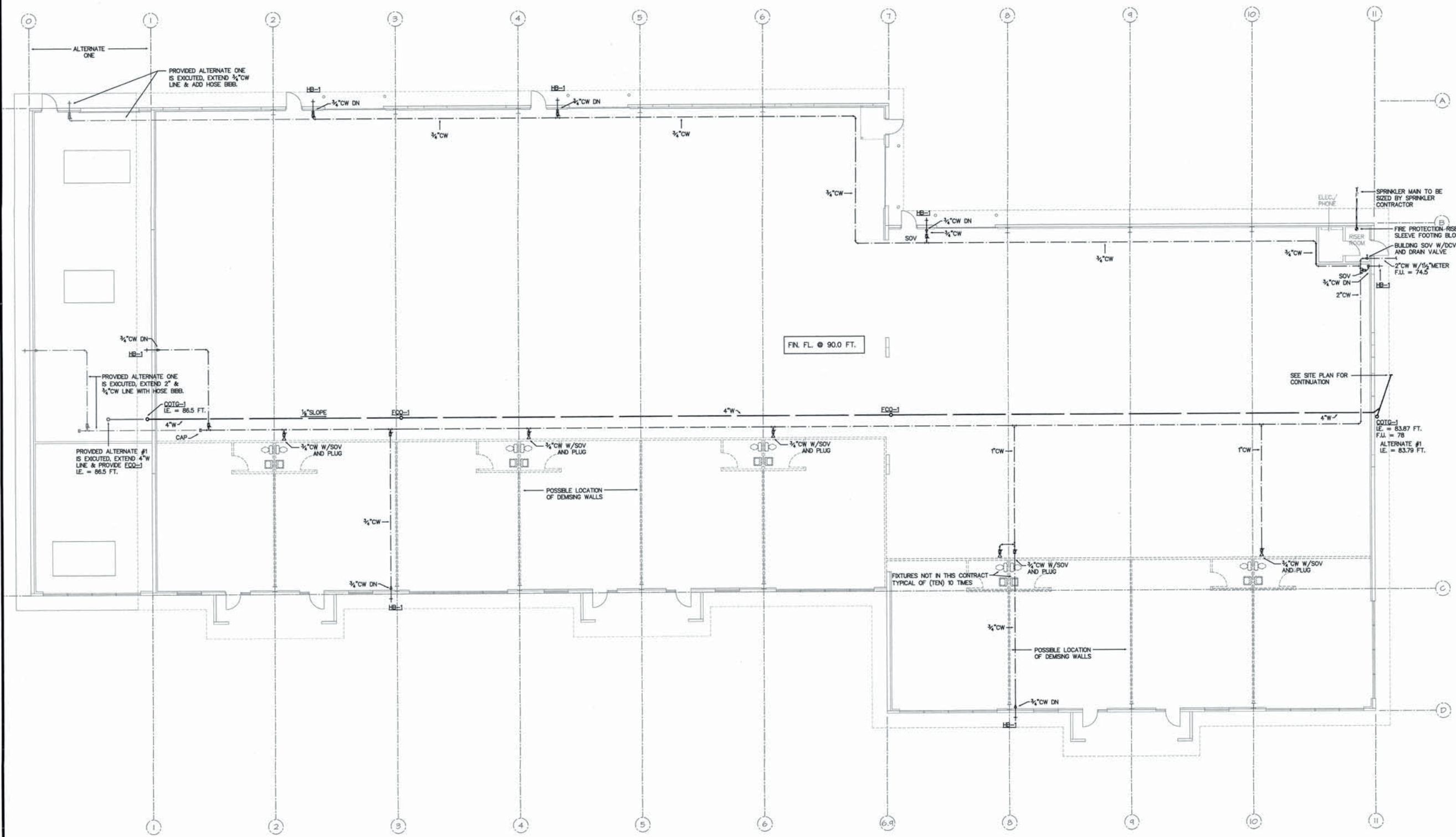
2 CLEANOUT DETAILS
P2.1 NO SCALE

Paraclete Engineers
7510 N.E. VANCOUVER MALL DR. SUITE 100
VANCOUVER, WA 98002 (206) 254-8234

CAD INFORMATION
SPACE: PIPAGE
REFS: 030104T
FILENAME: 100010001000

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SCOTT E. CRISP
ARCHITECT
REGISTERED PROFESSIONAL
EXPIRES MAY 6, 2003



BUILDING 1D
KLICKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON

1 PLUMBING FLOOR PLAN
P2.1 1/8" = 1'-0"

DATE: MARCH 10, 2003
DRAWN: S.J. CHECKED: L.S.
DRAWING TITLE: PLUMBING FLOOR PLAN

DRAWING: **P2.1**
1 OF 1
PROJECT: 0223
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South Harbor Drive

FUTURE BUILDING
24,000 S.F.

Exist.
Bldg.
1C

Exist.
Bldg.
1A

Existing
Bio Swale

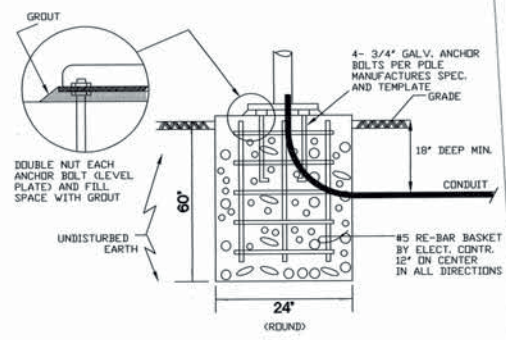
Truck Court

New Building 1D
25,450 S.F.

**Existing
Building
1B**

East Columbia River Way

1 ELECTRICAL SITE PLAN
E1.0 SCALE: 1"=20'-0"

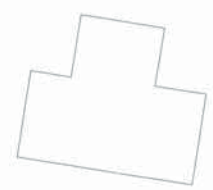


ADDITIVE ALTERNATE 1:
PROVIDE ADDITIONAL BUILDING BAY. ELIMINATE PARKING & ROAD. REVISE PARKING & LANDSCAPE AREAS AS SHOWN DASHED

REFER TO ARCHITECTURAL SHEETS FOR FULL DEFINITION OF ALTERNATE NO. 1.

ADDITIVE ALTERNATE 1:
PROVIDE ADDITIONAL BUILDING BAY. ELIMINATE PARKING & ROAD. REVISE PARKING & LANDSCAPE AREAS AS SHOWN DASHED

NEW PAVEMENT
EXIST. PAVEMENT
NEW TELEPHONE SERVICE RACEWAY 2'-4" C. AT -24' B.F.G.
EXISTING TELEPHONE PEDESTAL "SPRINT" 1-800-877-4421
CONC. TRUCK DOCK RAMP DOWN 4'-0" TO DRAIN
TELEPHONE SERVICE BOARD REFER TO SHEET E3.
HIGH VOLTAGE FEEDER BY UTILITY CO.
FUTURE PAVING & CURB CUT
NEW SERVICE SWITCHGEAR REFER TO ONE LINE DIAGRAM
NEW UTILITY HIGH VOLTAGE JUNCTION BOX
NEW UTILITY TRANSFORMER REFER TO ONE LINE DIAGRAM, SHEET E4.
SPARE 3/4" C FROM VTR VAULT TO ELECTRICAL ROOM
SPRINKLER SYSTEM VAULT, CONNECT TAMPER SWITCHES TO FIRE ALARM PANEL 1" C. (MINIMUM). PROVIDE WIRING AS REQUIRED.
NEW CURB @ EDGE OF EXIST. PAVING. PATCH PAVING AS REQ'D. (TYP.)
CONC. SIDEWALK W/ BROOM FINISH, E.J.'S @ 20'-0" C.J.'S @ 5'-0"





BUILDING 1D
KLIKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON

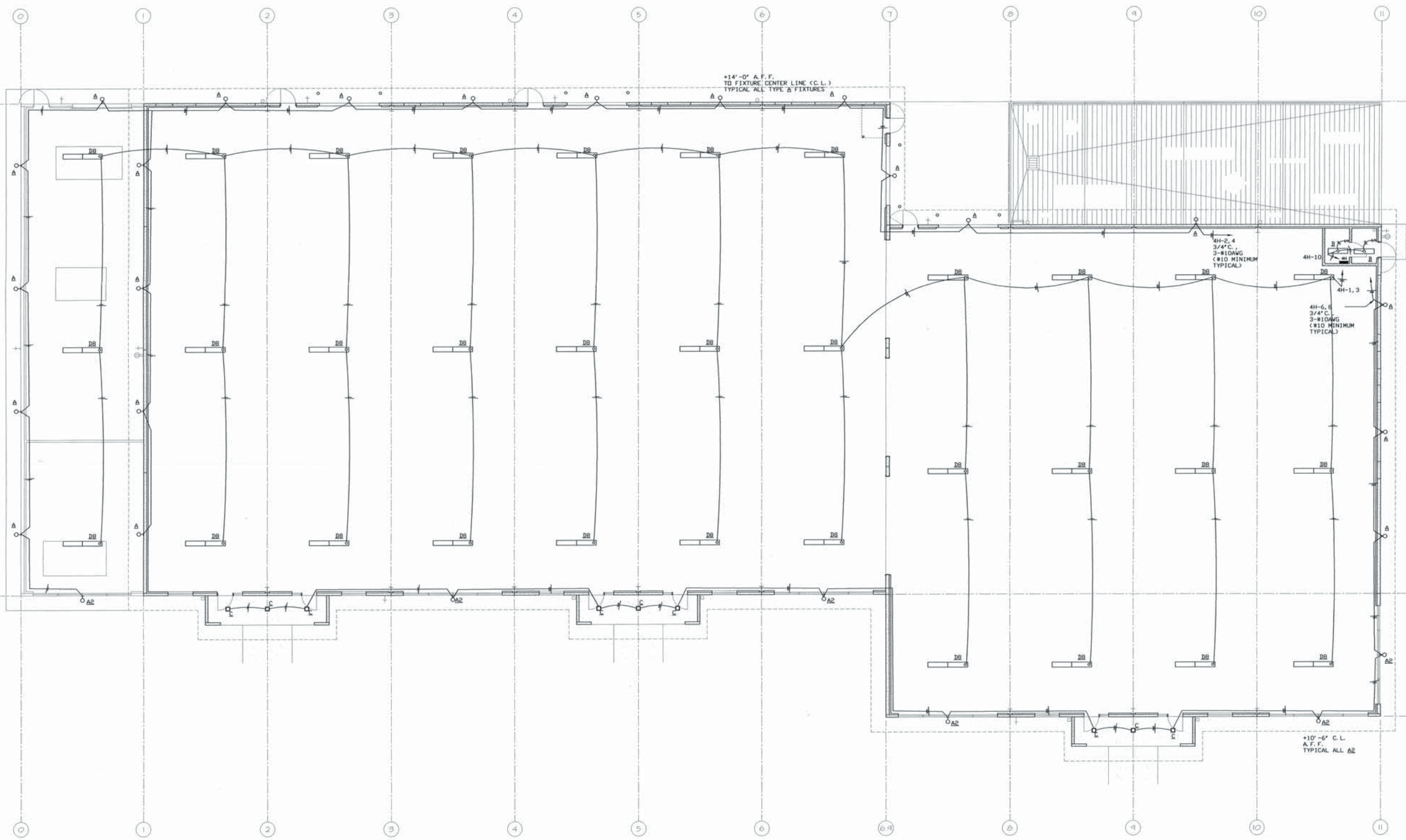
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DRAWING TITLE:

LIGHTING
PLAN

DRAWING
E2
2 OF 4
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(360) 574-0399 (503) 288-2486 fax (360) 574-0209
e-mail: rathay@athayeng.com

1 LIGHTING PLAN
E2.0 SCALE: 1/8" = 1'-0"





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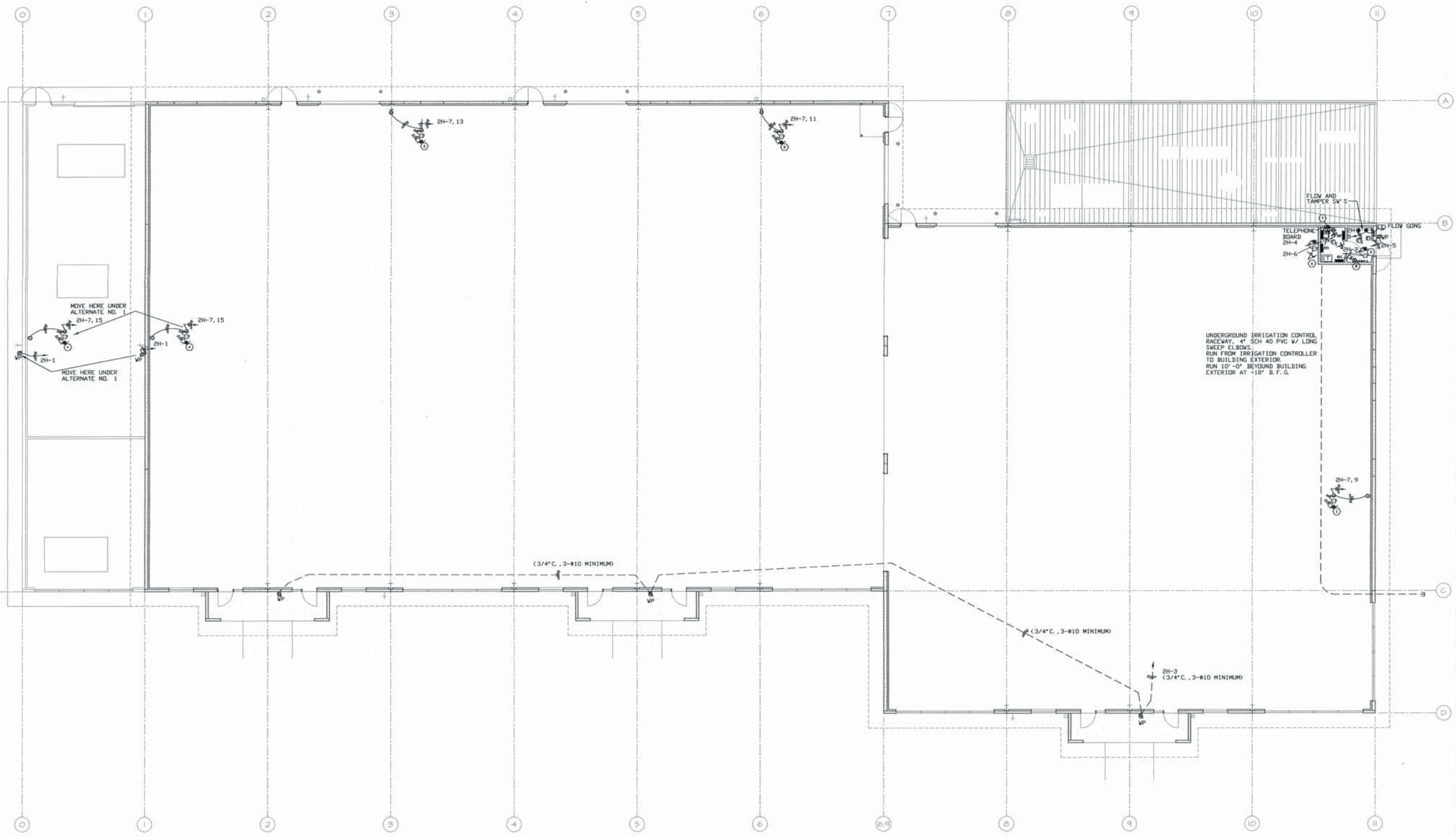
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Klickitat County Port District No. 1
Bingen, Washington

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CHECKED	RD ATHAY
DRAWING TITLE	

POWER AND
SIGNAL
PLAN

DRAWING	E3
PROJECT	0223
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a-mail: rathay@athayinc.com



1 POWER AND SIGNAL PLAN
E3.0 SCALE 1/8\" = 1'-0"

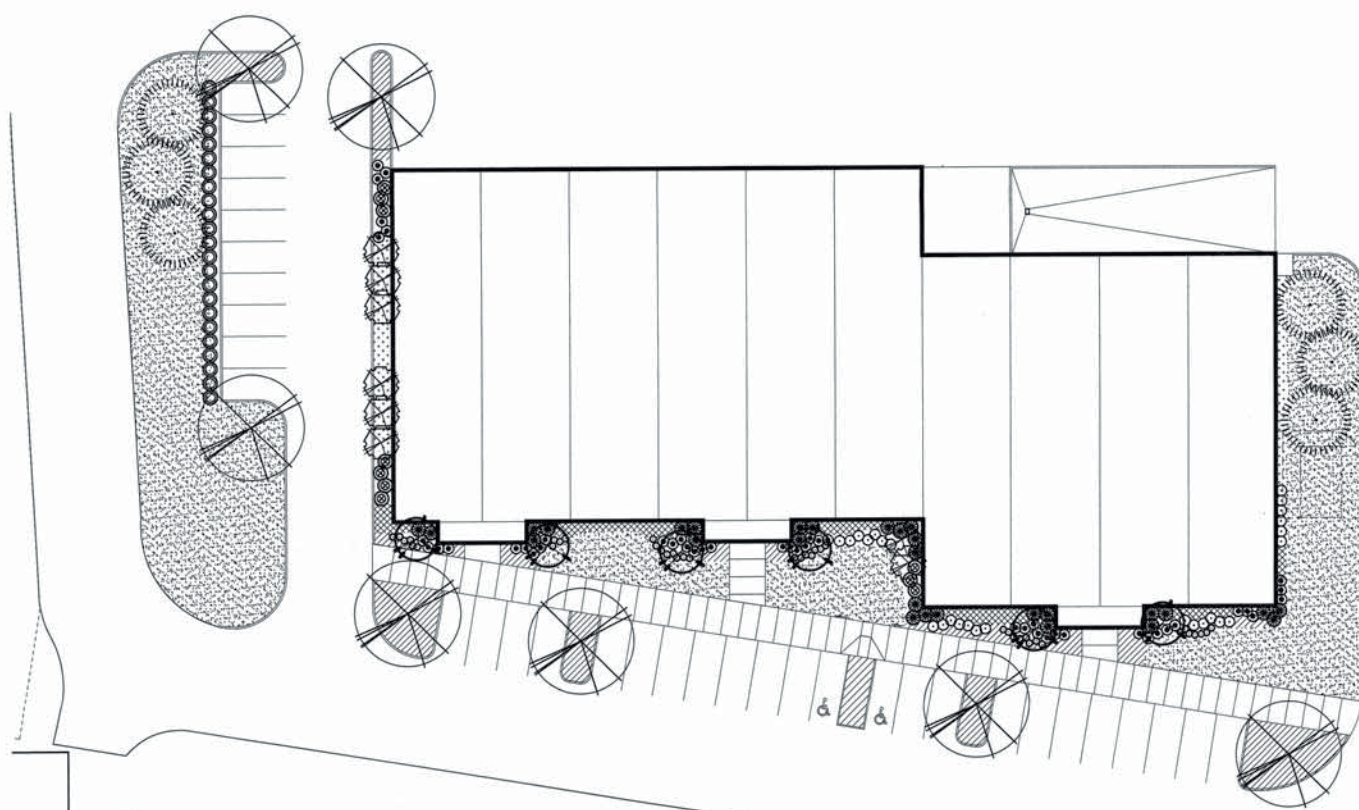
PLANTING NOTES

1. ALL BOUNDARIES, EASEMENTS, UTILITIES AND LEGAL ENCUMBRANCES TO BE CONFIRMED WITH OWNER PRIOR TO BEGINNING WORK. PROPERTY LINES AND SURVEY INFORMATION PROVIDED BY DSP ARCHITECTURE, PLLC.
2. IN NO WAY IS THIS PLAN TO BE INTERPRETED TO EXCEED THE LEGAL BOUNDARIES OF THE OWNER'S REAL PROPERTY.
3. THE LANDSCAPE DESIGNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF BOUNDARIES, UTILITIES AND EASEMENTS.
4. THIS PLAN SHALL BE INSTALLED TO MEET ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.
5. THIS PLAN SHALL BE CONSIDERED PRELIMINARY UNTIL APPROVED BY ALL GOVERNING AGENCIES. IMPLEMENTATION OF THIS PLAN SHALL NOT PROCEED UNTIL ISSUANCE OF ALL RELATED PERMITS.
6. PLANT QUANTITIES ARE FOR INFORMATION ONLY. IN CASE OF ANY DISCREPANCY, THE PLAN SHALL GOVERN.
7. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
8. THE CONTRACTOR IS TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO PERFORMING ANY EXCAVATION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER. CONTACT ALL UTILITY PROVIDERS SERVING THE SITE AREA 48 HOURS PRIOR TO ANY EXCAVATION.
9. ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES AND SHALL COMPLY WITH ANSI Z60.1 'STANDARD FOR NURSERY STOCK'.
10. THE CONTRACTOR SHALL ADHERE TO THE WASHINGTON ASSOCIATION OF NURSERMEN'S GUIDELINES FOR PLANTING PRACTICES.
11. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ELEMENTS ON AND OFF SITE, RESULTING FROM THE CONTRACTOR'S WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE VIABILITY OF ALL PLANT MATERIAL FOR 2 YEARS AFTER COMPLETION OF PLANTING. DISEASED, DYING, OR DEAD PLANT MATERIAL SHALL BE REPLACED BY THE CONTRACTOR DURING THE TWO YEAR PERIOD AND MAINTAINED FOR AN ADDITIONAL 2 YEAR PERIOD.
13. IMMEDIATELY UPON BID AWARD, CONTRACTOR SHALL SECURE THE PLANT MATERIALS AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT LANDSCAPE ARCHITECT FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTION FOR PLANT MATERIAL WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
14. TOP DRESS ALL SHRUB AND GROUND COVER AREAS (NOT LAWN) WITH 2" OF FINE BARK MULCH. SUBMIT SAMPLE TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
15. TREE LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT SITE REQUIREMENTS AS DIRECTED BY THE LANDSCAPE ARCHITECT.
16. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED PLANTING PITS HAVE POSITIVE DRAINAGE. PLANT PITS FULLY FLOODED WITH WATER SHALL DRAIN WITHIN (12) HOURS OF FILLING.
17. FINISH GRADE SHALL BE SET TO ALLOW POSITIVE DRAINAGE.
18. ROTOTILL 2" OF COMPOST INTO ALL PLANTED AREAS.
19. INCORPORATE PEAT INTO THE ROOT ZONE OF RHODODENDRONS, AZALEAS AND OTHER ACID LOVING PLANTS.
20. INCORPORATE 10-20-20 FERTILIZER INTO THE ROOT ZONE OF ALL NEW PLANTINGS.
21. RONSTAR, OR APPROVED EQUAL, PRE-EMERGENT HERBICIDE TO BE APPLIED TO ALL PLANTED AREAS PER MANUFACTURER'S INSTRUCTIONS.
22. EXISTING VEGETATION TO BE SPRAYED WITH ROUNDUP, OR APPROVED EQUAL, PER MANUFACTURER'S INSTRUCTIONS. SUFFICIENT TIME SHALL BE GIVEN TO ALLOW EXISTING MATERIAL TO DIE. REMOVE EXISTING VEGETATION MAT AND ROTOTILL OR SCARIFY EXISTING SOIL.
23. GROWN LAWN AREAS AND GRADE TO PROVIDE POSITIVE DRAINAGE.
24. ROLL LAWN AREA TO INSURE PROPER COMPACTION TO MINIMIZE SETTLEMENT.
25. AMEND SOIL IN LAWN AREAS WITH 80 LBS. OF DOLOMITE LIME AND 40 LBS. OF 10-20-20 SLOW RELEASE FERTILIZER OR EQUIVALENT. PROVIDE A 3" LAYER OF SANDY LOAM TOPSOIL FOR LAWN AND BED AREA.
26. SEED LAWN AREAS WITH PROTRITE 'COMPANION' GRASS SEED PER MANUFACTURER'S RECOMMENDATIONS. COVER SEED WITH FINE MULCH APPLIED WITH ROLLER OR HYDROSEED.
27. PLANT MATERIAL SHALL BE PLANTED IN ROOT GROWN 1" ABOVE FINISHED GRADE TO ALLOW POSITIVE DRAINAGE AWAY FROM CROWN.
28. STAKE ALL TREES OVER 6 FT. IN HEIGHT PER DETAIL 'A' AND 'B' ON THIS SHEET.
29. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
30. IRRIGATION MAY BE REQUIRED FOR 2 YEARS UNTIL PLANT MATERIAL IS ESTABLISHED. ADDITIONAL MATERIALS MAY BE REQUIRED DURING DROUGHT CONDITIONS.

ALTERNATE #1

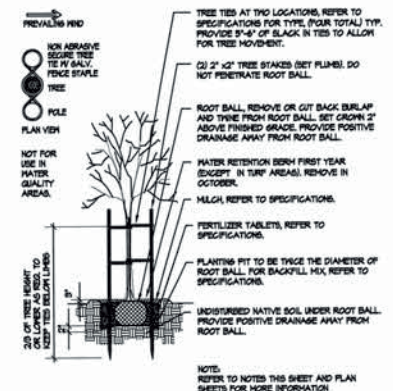
1" = 20'-0"

PLANT LEGEND				
SYMBOL	BOTANICAL / COMMON NAME	SIZE	QUANTITY	
TREES		PROPOSED ALTERNATE		
	<i>Quercus rubra</i> Red Oak	1 1/2" cal.	7	6
	<i>Pinus nigra</i> Austrian Pine	1 1/2" cal.	6	6
	<i>Cornus florida</i> Flowering Dogwood	1" cal.	6	6
	<i>Acer circinatum</i> Vine Maple	6" Multi	8	8
SHRUBS				
	<i>Barberis thunbergii</i> Japanese Barberry	2 gal.	25	0
	<i>Cornus stolonifera</i> Redwing Dogwood	2 gal.	10	4
	<i>Heuchera micrantha</i> Coral Bells	2 gal.	40	34
	<i>Mahonia aquifolium</i> Oregon Grape	2 gal.	47	55
	<i>Pinus mugo</i> Mugo Pine	2 gal.	24	24
	<i>Viburnum davidii</i> David's Viburnum	1 gal.	26	26
GROUND COVER AND GRASSES				
	<i>Gaultheria shallon</i> Salal	1 gal.	30" o.c.	30" o.c.
	<i>Arctostaphylos uva-ursi</i> Kinnikinnick	1 gal.	30" o.c.	30" o.c.
	<i>Erica carnea</i> Springhood Pink [®] Heath	Flats	18" o.c.	30" o.c.
	Turf Variety Species with Owner			

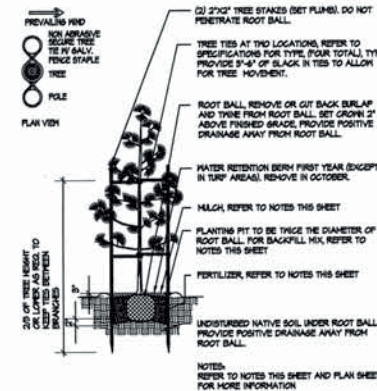


PROPOSED LANDSCAPE PLAN

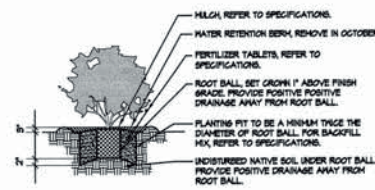
1" = 20'-0"



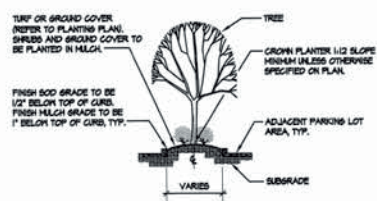
A Tree Planting Detail
Not To Scale



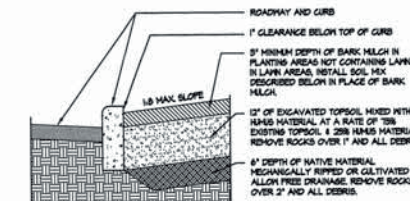
B Tree Planting Detail: Evergreen under 8' Height
Not To Scale



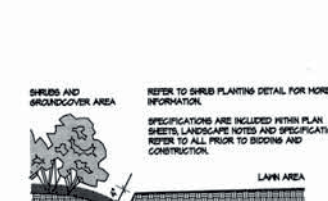
C Container Shrub Planting Detail
Not To Scale



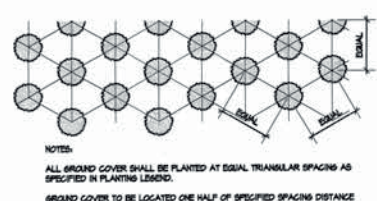
D Typical Parking Finger Planter Area
Not To Scale



E Soil Section at Curb within Planting Strips & Finger Islands
Not To Scale



F Lawn Edge Detail
Not To Scale



G Ground Cover Planting Detail
Not To Scale

PIPE SIZING CHART (CLASS 200)		
PIPE SIZE	ACCEPTABLE FLOW	
0.75"	0 - 10 GPM	
1"	11 - 15 GPM	
1.25"	16 - 25 GPM	
1.5"	26 - 35 GPM	
2"	36 - 55 GPM	
2.5"	56 - 80 GPM	

LEGEND: IRRIGATION EQUIPMENT		
SYM	MANUFACTURER	DESCRIPTION
▷	NIBCO	GATE VALVE, ISOLATION VALVE (LINE SIZE)
▷	APPROVED	BALL VALVE, LINE SIZE
⊙	RAINBIRD	PESB-NP-HAN-PRS-D, ELECTRIC REMOTE CONTROL SCRUBBER VALVE WITH PRESSURE REGULATING MODULE. (SIZE PER PLAN)
⊙	NIBCO	75-K 3/4" BRONZE MANUAL DRAIN VALVE
⊠	RAINBIRD	ESP-LA 12 STATION WALL MOUNTED
⊠	RAINBIRD	33DRG QUICK COUPLING VALVE
NOT SHOWN	APPROVED	AUTOMATIC DRAIN VALVES (LATERAL & MAIN LINE) LOCATE AS REQ'D TO DRAIN THE SYSTEM.
----	APPROVED	CLASS 200 PVC LATERAL (LAWN). CONTRACTOR TO SIZE (SEE PIPE SIZING CHART THIS SHEET)
----	APPROVED	CLASS 200 PVC LATERAL (SHRUBS). CONTRACTOR TO SIZE (SEE PIPE SIZING CHART THIS SHEET)
----	APPROVED	SCHEDULE 40 PVC MAINLINE, 2" SIZE.
----	APPROVED	SCHEDULE 40 PVC SLEEVES, EXTEND 12" BEYOND PAVED AREA (SIZE ADEQUATELY) SEE DETAIL F.
L3	CONTROLLER/ VALVE #	
1" 35	GALLONS PER MINUTE	
---	VALVE SIZE	
	L = LAWN, S=SHRUBS	

LEGEND: IRRIGATION HEADS						
SYM	MANUFACTURER	DESCRIPTION	PSI	GPM	RAD.	PATTERN
△	RAINBIRD	8Q 1800 SERIES	30	0.26	8'	90°
▷	RAINBIRD	8T 1800 SERIES	30	0.35	8'	120°
▽	RAINBIRD	8H 1800 SERIES	30	0.52	8'	180°
▼	RAINBIRD	8F 1800 SERIES	30	1.05	8'	360°
○	RAINBIRD	10Q 1800 SERIES	30	0.34	10'	90°
○	RAINBIRD	10T 1800 SERIES	30	0.53	10'	120°
○	RAINBIRD	10H 1800 SERIES	30	0.74	10'	180°
⊙	RAINBIRD	10F 1800 SERIES	30	1.56	10'	360°
○	RAINBIRD	12Q 1800 SERIES	30	0.65	12'	90°
○	RAINBIRD	12T 1800 SERIES	30	0.87	12'	120°
○	RAINBIRD	12H 1800 SERIES	30	1.30	12'	180°
⊙	RAINBIRD	12F 1800 SERIES	30	1.74	12'	240°
○	RAINBIRD	12TQ 1800 SERIES	30	1.45	12'	270°
●	RAINBIRD	12F 1800 SERIES	30	2.60	12'	360°
○	RAINBIRD	15Q 1800 SERIES	30	0.92	15'	90°
○	RAINBIRD	15T 1800 SERIES	30	1.23	15'	120°
○	RAINBIRD	15H 1800 SERIES	30	1.85	15'	180°
⊙	RAINBIRD	15TT 1800 SERIES	30	2.48	15'	240°
○	RAINBIRD	15TQ 1800 SERIES	30	2.18	15'	270°
●	RAINBIRD	15F 1800 SERIES	30	3.70	15'	360°
⊙	RAINBIRD	15GST 1800 SERIES	30	1.21	4X30	-
⊙	RAINBIRD	15GST 1800 SERIES	30	1.21	4X30	-

LEGEND: IRRIGATION HEADS						
SYM	MANUFACTURER	DESCRIPTION	PSI	GPM	RAD.	PATTERN
VARIABLE ARC NOZZLES	RAINBIRD	8-VAN SERIES	30	0.72	8'	90°
	RAINBIRD	8-VAN SERIES	30	1.19	8'	180°
	RAINBIRD	8-VAN SERIES	30	1.55	8'	270°
	RAINBIRD	8-VAN SERIES	30	1.70	8'	330°
	RAINBIRD	10-VAN SERIES	30	0.75	10'	90°
	RAINBIRD	10-VAN SERIES	30	1.45	10'	180°
	RAINBIRD	10-VAN SERIES	30	2.10	10'	270°
	RAINBIRD	10-VAN SERIES	30	2.60	10'	360°
	RAINBIRD	12-VAN SERIES	30	0.65	12'	90°
	RAINBIRD	12-VAN SERIES	30	1.30	12'	180°
	RAINBIRD	12-VAN SERIES	30	1.95	12'	270°
	RAINBIRD	12-VAN SERIES	30	2.60	12'	360°
	RAINBIRD	15-VAN SERIES	30	0.92	15'	90°
	RAINBIRD	15-VAN SERIES	30	1.85	15'	180°
	RAINBIRD	15-VAN SERIES	30	2.78	15'	270°
	RAINBIRD	15-VAN SERIES	30	3.70	15'	360°

IRRIGATION NOTES		
1. ALL BOUNDARIES, EASEMENTS, UTILITIES AND LEGAL ENCUMBRANCES TO BE CONFIRMED WITH OWNER PRIOR TO BEGINNING WORK.	7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A WORKING IRRIGATION SYSTEM. THE LANDSCAPE ARCHITECT DOES NOT ACCEPT ANY LIABILITY REGARDING THE DESIGN OR INSTALLATION OF THIS SYSTEM.	11. EQUAL PRODUCTS MAY BE SUBSTITUTED WITH APPROVAL FROM LANDSCAPE ARCHITECT.
2. IN NO WAY IS THIS PLAN TO BE INTERPRETED TO EXCEED THE LEGAL BOUNDARIES OF THE OWNER'S REAL PROPERTY.	8. THIS PLAN IS DIAGRAMATIC. PLACE ALL EQUIPMENT IN PLANTING BEDS EXCEPT WHERE SLEEVING UNDER PAVING. DO NOT CHANGE DIRECTION WITH PIPE UNDER PAVING. DO NOT PLACE EQUIPMENT OUTSIDE OF THE PROPERTY LINE. GROUP PIPE IN TRENCHES WHERE FEASIBLE. AVOID LOCATING THE MAINLINE UNDER TREES.	12. ALL IRRIGATION MATERIAL WILL BE ORDERED AND INSTALLED WITH A PURPLE NP MARKING DESIGNATING NON-POTABLE WATER.
3. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF BOUNDARIES, OR UTILITIES.	9. USE 4" POP-UP HEADS FOR LAWN AND 6" POP-UP HEADS FOR SHRUB AREAS.	13. ADJUST IRRIGATION LINES AS NEEDED TO WORK AROUND BUILDING FOOTINGS.
4. THIS PLAN SHALL BE INSTALLED TO MEET ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.	10. VALVES WITH LOW ZONE GPM'S MAY BE WIRED TOGETHER AS ONE STATION ON THE CONTROLLER AS LONG AS THE COMBINED GPM OF THE ZONES DOES NOT EXCEED 50 GPM. DO NOT WIRE LAWN AND SHRUB ZONES TOGETHER.	
5. IMPLEMENTATION OF THIS PLAN SHALL NOT PROCEED UNTIL ISSUANCE OF ALL RELATED PERMITS.		
6. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS OF THE SITE PRIOR TO COMMENCING CONSTRUCTION.		

DATE	MARCH 14, 2009
DRAWN	DA
CHECKED	CB
DRAWING TITLE	

IRRIGATION PLAN



Planning Solutions, Inc.

LANDSCAPE ARCHITECTURE
LAND PLANNING
DEVELOPMENT CONSULTING

1508 BROADWAY STREET
VANCOUVER, WA 98663

PHONE: 360-750-9000
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E-mail: ps@planning-solutionsinc.com

DRAWING

L2

PROJECT

0223

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BUILDING 1D
KLUCKITAT COUNTY PORT DISTRICT No. 1
BINGEN, WASHINGTON

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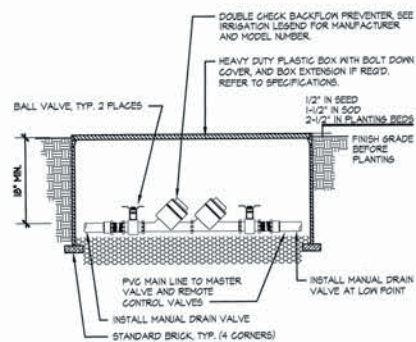
ALTERNATE #1

1" = 20'-0"

PROPOSED IRRIGATION PLAN

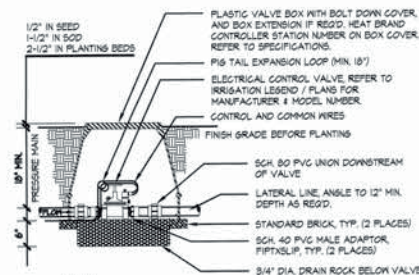
1" = 20'-0"





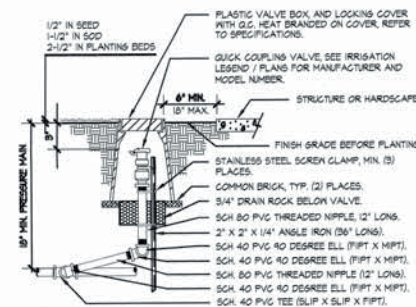
- NOTES:
1. EQUIPMENT TO BE INSTALLED A MINIMUM OF 24" FROM ANY STRUCTURE OR HARDSCAPING.
2. USE TEFLON TAPE ON ALL THREADED FITTINGS.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

A Backflow Preventer Detail (2' & Smaller)
Not To Scale DOUBLE CHECK SECTION



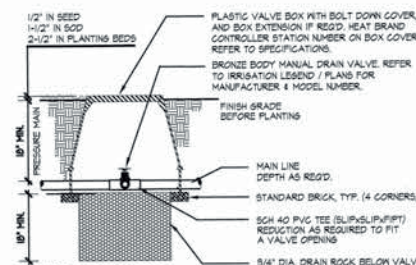
- NOTES:
1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. PLACE 3/4" DIA. DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
6. USE TEFLON TAPE ON ALL THREADED FITTINGS.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

B Electric Control Valve Detail: 3' & Smaller
Not To Scale SECTION



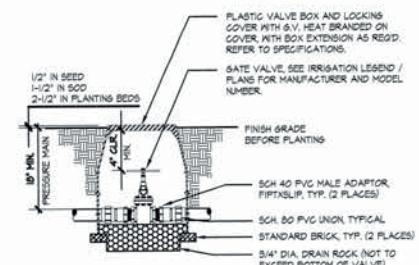
- NOTES:
1. INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
2. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
3. PLACE 3/4" DIA. DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
4. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIT OF THE QUICK COUPLER.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

C Quick Coupling Valve Detail (Within Valve Box)
Not To Scale SECTION



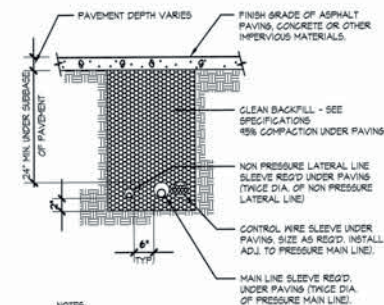
- NOTES:
1. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
2. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
3. PLACE 3/4" DIA. DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

D Manual Drain Valve
Not To Scale SECTION



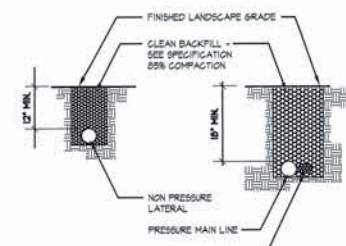
- NOTES:
1. INSTALL GATE VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL GATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
4. USE TEFLON TAPE ON ALL THREADED FITTINGS.
5. PLACE 3/4" DIA. DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

E Gate Valve Detail: Threaded Ends (3' & Smaller)
Not To Scale SECTION



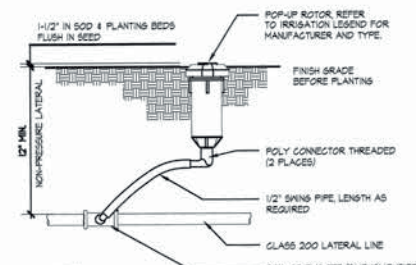
- NOTES:
1. ALL SLEEVES TO BE SCH. 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS, CAP ENDS AND FLAG LOCATIONS.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

F Pipe Trenching Under Pavement Detail
Not To Scale SECTION



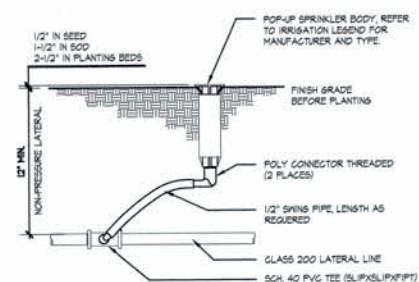
G Pipe Trenching Detail (w/in Landscape Areas)
Not To Scale SECTION

ALL DETAILS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT.



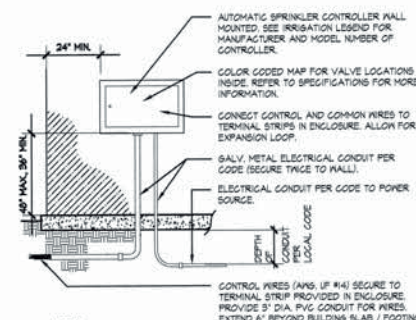
- NOTES:
1. LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPING, MON STRIPS, HEADER BOARDS, AND THE EDGE OF LAWN AREAS.
2. LOCATE HEAD 12" FROM STRUCTURES.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

H Pop-Up Rotor Detail
Not To Scale SECTION



- NOTES:
1. LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPING, MON STRIPS, HEADER BOARDS, AND THE EDGE OF LAWN AREAS.
2. LOCATE SREAM SPRAY / SUBEELERS 6" FROM ALL STRUCTURES, AND SPRAY HEADS 12" FROM ALL STRUCTURES, BUT 6" FROM ALL STRUCTURES IN GROUND COVER AREAS.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

I Pop-Up Spray Detail
Not To Scale SECTION



- NOTES:
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE RED IN COLOR. BUNDLE AND TAPE WIRES AT INTERVALS OF 10' O.C.
2. NO SPLICES TO BE MADE BETWEEN CONTROLLER AND REMOTE VALVE UNDER 500' LINEAR FEET.
3. PAINT CONTROLLER AND CONDUIT SUPPLY LINE TO MATCH BUILDING EXTERIOR COLOR.
SPECIFICATIONS ARE INCLUDED WITHIN PLAN SHEETS, LANDSCAPE NOTES AND SPECIFICATIONS. REFER TO ALL PRIOR TO BIDDING AND CONSTRUCTION.

J Automatic Controller Detail (Wall Mounted)
Not To Scale SECTION

BUILDING 1D
Klickitat County Port District No. 1
BINGEN, WASHINGTON



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DATE: MARCH 18, 2009
DRAWN: DA
CHECKED: CB
DRAWING TITLE: IRRIGATION DETAILS
DRAWING: **L3**
PROJECT: 0223
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