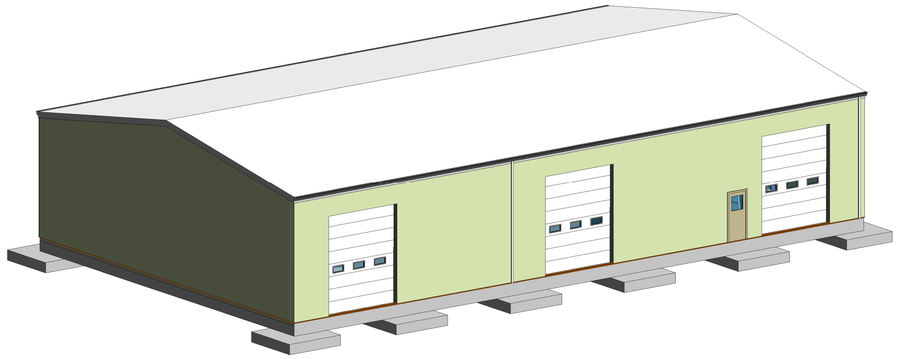
FLEX BUILDING
PORT OF ARLINGTON, OREGON

BID/PERMIT SET



6 CS01 3D RENDERING

PROJECT TEAM

OWNER:
PORT OF ARLINGTON
100 ISLAND PARK WAY
PO BOX 279
ARLINGTON, OR. 97812
P. (541) 454-2868
PROJECT MANAGER: PETER MITCHELL

GENERAL CONTRACTOR:
TBD

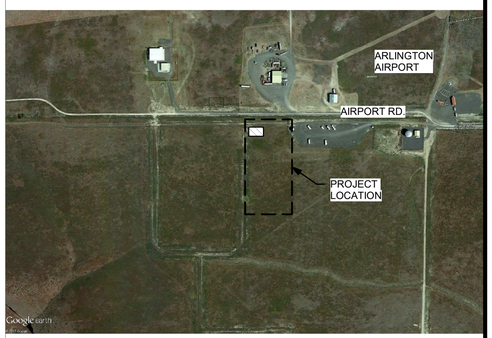
CIVIL, STRUCTURAL BUILDING
ENGINEER& PLANNING
PILLAR CONSULTING GROUP, INC.
835 NW 23RD ST
CORVALLIS, OR. 97330
541-993-2480
ATTN: JEFF SCHOTT, P.E.

GEOTECHNICAL ENGINEER:
MATERIALS TESTING & INSPECTION
2791 S. VICTORY VIEW WAY
BOISE, ID. 83709
CONTACT: CLINTON WYLLIE
P. (208) 376-4748
E. wylliec@mti-id.com

MECHANICAL, ELECTRICAL, PLUMBING
ENGINEER: MFIA, INC.
2007 SE ASH ST
PORTLAND, OR 97214
CONTACT: JOHN VAN BLADEREN, P.E.
P. (503) 234-0548

SURVEYOR:
ANDERSON PERRY & ASSOCIATES
1901 N. FIR ST.
PO BOX 1107
LAGRANDE, OR. 97850
P. (541) 963-8309

VICINITY MAP



VICINITY MAP
SCALE: 1" = NTS

PROJECT DATA

PROJECT OWNER:
PORT OF ARLINGTON
100 ISLAND PARK WAY
PO BOX 279
ARLINGTON, OR. 97812

PROJECT LOCATION:
TAX MAP: 3N-21E
TAX LOT: 508
ADDRESS:
801 AIRPORT RD
ARLINGTON, OR 97812

CODES:
2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2014 OREGON FIRE CODE

BUILDING OCCUPANCY:

OCCUPANCY	USE	NET SQ. FT.	%USE
F-1/S-1/B	TBD	6,000	100%
TOTAL AREA:		6,000	100%

CONSTRUCTION TYPE: TYPE IIIB

NUMBER OF STORIES: 1
ALLOWABLE NUMBER OF STORIES: 2

GROSS FLOOR AREA:
1ST FLOOR AREA 6,000 SF
ALLOWABLE AREA: 21,000 SF
INCLUDING CLEAR YARD If=0.75 & BASED ON OCCUPANCY GROUP B

BUILDING HEIGHT: <30 FT (AFF)
BUILDING ALLOWABLE HEIGHT: 55 FT

ABBREVIATIONS

A

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDENDUM
AGG	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AVG	AVERAGE

B

BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN

C

CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATION
CTR	CENTER
CU	CUBIC

D

DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DIR	DIRECTION
DTL	DETAIL
DWG	DRAWING

E

(E)	EXISTING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
EN	EDGE NAILING
EL	ELEVATION
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EQL	EQUAL
EQUIV	EQUIVALENT
EW	EACH WAY
EXT	EXTERIOR

F

FAB	FABRICATE
FB	FLAT BAR
FDN	FOUNDATION
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FN	FIELD NAILING
FOC	FACE OF CURB
FT	FOOT OR FEET
FTG	FOOTING
(F)	FUTURE

G

GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLB	GLUE LAMINATED BEAM
GRD	GRADE/GROUND
GYP	GYPCRETE

H

HD	HOLD DOWN
HORZ	HORIZONTAL
HP	HIGH POINT
HK	HOOK
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT

I

ID	INSIDE DIAMETER
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR

J

JT	JOINT

K

KIP	1000 POUNDS

L

LB	POUND
LF	LINEAL FEET
LL	LIVE LOAD
LP	LOW POINT

M

MAX	MAXIMUM
MFR	MANUFACTURER
MISC	MISCELLANEOUS
MIN	MINIMUM

N

(N)	NEW
N	NORTH
NO./#	NUMBER
NOM	NOMINAL
NTS	NOT-TO-SCALE

O

OC	ON-CENTER
OCEW	ON-CENTER EACH WAY
OH	OVERHEAD/OFF HAND
OPNG	OPENING
OPP	OPPOSITE

P

PC	PRECAST
PEMB	PRE-ENGINEERED MTL BLDG
PERP	PERPENDICULAR
PH	PHASE
PL	PLATE
PLY	PLYWOOD
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PT	PRESSURE TREATED

R

RAD	RADIUS
REBAR	REINFORCING BAR
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCING BAR
REQ'D	REQUIRED
REV	REVISION

S

(S)	SIMPSON
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SLRS	SEISMIC LATERAL RESISTING SYSTEM
SN	SILL NAILING
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL

T

T&G	TONGUE AND GROOVE
TEMP	TEMPORARY
THK	THICK
TN	TOE NAIL
TO	TOP OF
TOC	TOP-OF-CURB/CONCRETE
TOS	TOP-OF-SLAB/STEEL
TYP	TYPICAL

U

UL	UNDERWRITERS LAB
UNO	UNLESS NOTED OTHERWISE

V

VERT	VERTICAL
VOL	VOLUME

W

W	WATER OR WEST
W/O	WITHOUT
W/	WITH
WD	WOOD
WF	WIDE FLANGE
WT	WEIGHT
WWM	WELDED WIRE MESH

DRAWINGS & SUBMITTALS

REQUESTED DEFERRED SUBMITTALS:

A) PRE-ENGINEERED METAL BUILDING (PEMB)
B) REVISED STRUCTURAL CALCULATIONS BASE ON ACTUAL PEMB REACTIONS

DRAWING LIST

SHEET NUMBER	SHEET NAME	Current Revision	Current Revision Date
CS01	COVER SHEET		
CS02	CODE PLAN		
C01	COVER SHEET		
C02	GENERAL NOTES		
C03	GENERAL NOTES		
C04	EXISTING CONDITION & DEMO PLAN		
C11	EROSION CONTROL NOTES		
C12	EROSION CONTROL CLEARING & DEMO PLAN		
C13	EROSION CONTROL PERMANENT PLAN		
C14	EROSION CONTROL DETAILS		
C21	SITE IMPROVEMENT PLAN		
C22	SITE LAYOUT PLAN		
C31	GRADING PLAN		
C32	PROFILES		
C41	UTILITY PLAN		
C51	CIVIL DETAILS		
C52	CIVIL DETAILS		
C53	CIVIL DETAILS		
L1.0	LANDSCAPE & IRRGATION PLAN		
L1.2	LANDSCAPE DETAILS AND NOTES		
L1.3	LANDSCAPING NOTES		
MB01	METAL BUILDING NOTES		
MB02	METAL BUILDING PLANS		
MB03	METAL BUILDING ELEVATIONS		
MB04	METAL BUILDING SECTIONS		
S01	STRUCTURAL NOTES		
S02	STRUCTURAL NOTES & DETAILS		
S11	FOUNDATION & SLAB PLAN		
S12	FOUNDATION DETAILS		
A11	FLOOR & ROOF PLAN		
A12	CEILING PLANS		
A21	ELEVATIONS		
A31	SECTIONS		
A41	DETAIL VIEWS		
A51	DETAILS		
A61	DOOR SCHEDULE		
A62	FINISH SCHEDULE		
P11	PLUMBING NOTES		
M11	MECHANICAL PLAN		
E01	ELECTRICAL NOTES		
E02	ELECTRICAL PLANS		

41

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

COVER SHEET

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER #51590PE
DIGITAL SIGNATURE
OREGON
JULY 13, 2004
JEFFREY T. SCHOTT
RENEWAL: 06/30/19

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

CS01

Scale 12" = 1'-0"

12/8/2017 12:34:54 PM

CODE PLAN LEGEND

?	DOOR TAG
?	EGRESS PATH OF TRAVEL TAG (APPLIES TO ▬ ▬ ▬ ▬)
[?]	EGRESS PATH OF TRAVEL LINE OCCUPANT LOAD TAG (TOTAL ON LEG)
|| ? ||	EGRESS PATH OF TRAVEL LINE DISTANCE TAG (SEE SCHD FOR TOTAL DIST.)
<?>	EGRESS COMMON PATH OF TRAVEL DISTANCE TAG (APPLIES TO _ _ _ _)
?	EGRESS PATH OF TRAVEL LINE. CIRCLE REPRESENTS STARTING POINT, ARROW HEAD REPRESENTS END AT EXIT OR EXIT ACCESS ELEMENT. THIN DASHED LINE PARALLEL TO TRAVEL LINE INDICATES COMMON PATH.
?	ROOM NUMBER TAG WITH ROOM NAME AND PLAN AREA
⊗	FIRE EXTINGUISHER 4A:80B:C 10# UNIT TYP. MOUNT AT 42" AFF

EGRESS/FLS SUMMARY

Arranged by 2014 OSSC section as applicable:

Section 304: Group B occupancy: Office areas (future)
Section 306: Group F-1 occupancy: Manfuacturing (future)
Section 311: Group S-1 occupancy: Storage (future)

Section 503: Allowable areas/height. Tabular F-1 for Type IIIB construction: B=12,000 SF/2 story;
Section 504: Allowable height: 55 feet. Actual <30'
Section 506: 506.1 Increase: Total= 21,000 SF (no increase required) for non-separated B/F-1/S-1 occupancy
506.2 Yard Increases: Available= 0.75= (F/P-.25)*W/30;F/P=1.00 (clear on 4 sides >30') W=30 max.
Section 508: 508.3 Non-separated occupancy: Mixed use B, F-1 & F-2; Treat as non-separated F-1
Utilization ratio (F-1): 0.29 (6,000SF/21,000 SF)
Section 601& 602: Type IIIB construction:
Non-bearing, non-combustible exterior walls; combustible interior construction. Closest interior lot line >10'.
No exterior FR walls required.
Interior plywood used as wainscot.
Section 1004: Occupant load: See room schedule. 60 total
Section 1006: Egress illumination provided. See ceiling plan & lighting plan
Section 1007: Accessible means of egress:
All exit doors are accessible.
All doors to have accessible hardware.
Section 1008: All egress doors to be min. 36" wide.
Section 1011: Exit signs: See ceiling plan
Section 1014: Common path of egress travel max= 24'. Limit = 75'
Section 1015: Exits. 2 required generally.
Section 1016: Exit travel distance is < 200'

Chapter 11: 1103.1 Site and building are generally accessible. All doors to be equipped w/ADA hardware.
1104.1: Access to site is accessible from ADA parking space. No accessibility to or on adjacent public way..
1104.3: All connected spaces, work areas, and access to all egress doors to be on accessible path.
1105.1: All public entrance are accessible.
1106.1: 11 parking spaces provided. (1) parking space accessible, "Van Accessible".
1109.2 & 1109.3: At least one of each fixture in restroom are accessible.
Chapter 12: 1210: Bathroom walls to be provided with either HP laminate or epoxy paint to 4' AFF. Floor is to be impervious with min. 4" cove-base.
Chapter 14: See Building Manufacture drawings for exterior wall assembly and flashing details. Metal siding.

Chapter 15: Metal roofing. Class A

Chapter 24: Section 2406, safety glazing required in doors w/glazing and in windows adjacent to walkways with the bottom edge of glazing < 60" above grade.

2014 Oregon Fire Code:
Section 507.5: All points of the building are within 400 feet of an existing fire hydrant by a route around the perimeter of the building.
Appendix B: Fire area approximately 6,000 SF.
Appendix C: (1) hydrants required. Flow test not established.

ROOM SCHEDULE- AREA & OCCUPANCY1

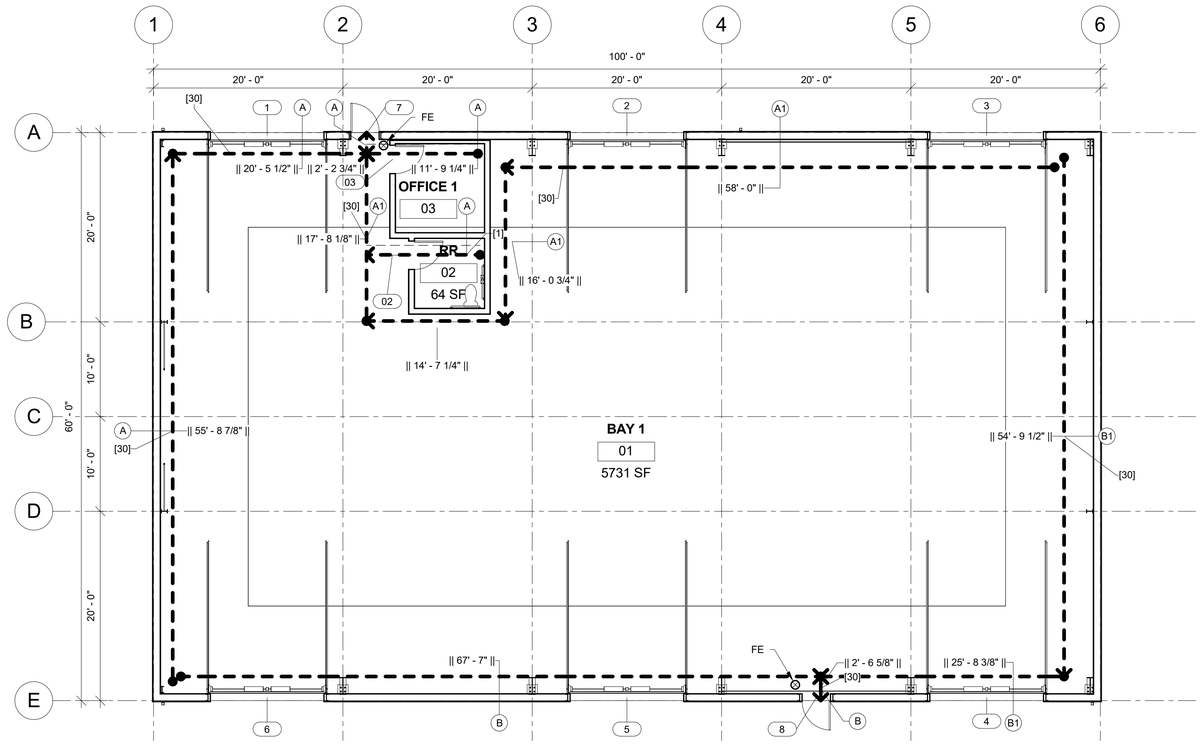
Number	Name	Area	Occupancy	Occupant Load Factor	Occupant Load
01	BAY 1	5731 SF	F-1	100 SF	58
02	RR	64 SF	F-1	100 SF	1
03	OFFICE 1	99 SF	B	100 SF	1
		5893 SF			60

SPECIAL CONSTRUCTION NOTES

1. ALL RESTROOMS INTERIORS TO BE PAINTED WITH WATER-BASED EPOXY PAINT TO CREATE NON-POROUS SURFACE
2. PROVIDE 4" TALL ADDRESS NUMBER ON DOOR 11
3. FLOOR/CEILING ASSEMBLY SPACED OVER OFFICE AREAS ARE NOT FOR STORAGE USE AND ARE RATED OF 20 PSF LIVE LOAD (LOCAL AREAS MAY HAVE HIGHER RATINGS IF REQUESTED). LABEL EACH UNIT IN EACH SPACE IN 2" LETTERS "NO STORAGE ABOVE"
4. RIGID INSULATION IN CONCEALED SPACES SHALL BE PROVIDED WITH GWB THERMAL BARRIER, OR COMPLY WITH THE PROVISIONS OF 2603.4.1.4 OR BE LISTED FOR EXPOSURE PER 2603.10.

EGRESS PATH SCHEDULE

Path ID	Common Path Distance	Path Occupant Load	Travel Distance
A	12' - 0"	1	12' - 0"
A	11' - 9 1/4"	2	11' - 9 1/4"
A	0' - 0"	30	2' - 2 3/4"
A	0' - 0"	30	55' - 8 7/8"
A	0' - 0"	30	20' - 5 1/2"
	23' - 9 1/4"		102' - 2 1/2"
A1	0' - 0"	30	17' - 8 1/8"
A1	0' - 0"	30	58' - 0"
A1	0' - 0"	30	16' - 0 3/4"
A1	0' - 0"	30	14' - 7 1/4"
	0' - 0"		106' - 4 1/8"
B	0' - 0"	30	67' - 7"
B	0' - 0"	30	2' - 6 5/8"
	0' - 0"		70' - 1 5/8"
B1	0' - 0"	30	25' - 8 3/8"
B1	0' - 0"	30	54' - 9 1/2"
	0' - 0"		80' - 6"



1 CS02 CODE PLAN
1/8" = 1'-0"

ENERGY CODE NOTES

This project is to comply with the provisions of the 2014 Oregon Energy Efficiency Specialty Codes

Energy Code Requirements:

1. U-factors of fenestration products (windows, doors and skylights) are determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer or are determined using the commercial size category values listed in Chapter 15 of the 2009 ASHRAE Handbook of Fundamentals, Table No.4 and shall include the effects of the window frame. The temporary label affixed to the fenestration products must not be removed prior to inspection.
2. Solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer or be determined using the Solar Heat Gain Coefficients (SHGC) in Chapter 15 of the 2009 ASHRAE Handbook of Fundamentals, Table No.10. The overall values must consider type of frame material and operator for the SHGC at normal incidence.
3. Sealing of the building envelope. Openings and penetrations in the building envelope are sealed with caulking materials or closed with gasketing systems compatible with the construction materials and location. Joints and seams are sealed in the same manner or taped or covered with a moisture vapor-permeable wrapping material. Sealing materials spanning joints between construction materials allow for expansion and contraction of the construction materials.
4. Window and door assemblies. The air leakage of window and sliding or swinging door assemblies that are part of the building envelope are determined in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, or NFRC 400 by an accredited, independent laboratory, and labeled and certified by the manufacturer.
5. Building thermal envelope insulation. An R-value identification mark is applied (by manufacturer) to each piece of insulation 12 inches or greater in width. Alternately, the insulation installers have provided a signed, dated and posted certification listing the type, manufacturer and R-value of insulation installed. Refer to code section for blown or sprayed insulation installation/settling depths and marker requirements.
6. Curtain wall, storefront glazing and commercial entrance doors. Curtain wall, storefront glazing and commercial-glazed swinging entrance doors and revolving doors are tested for air leakage in accordance with ASTM E 283. For curtain walls and storefront glazing, the maximum air leakage rate is 0.3 cubic foot per minute per square foot of fenestration area. For commercial glazed swinging entrance doors and revolving doors, the maximum air leakage rate is 1.00 cfm/ft2 of door area.
7. Insulation mark installation. Insulating materials are installed such that the manufacturer's R-value mark is readily observable upon inspection.
8. Insulation product rating. The thermal resistance (R-value) of insulation has been determined in accordance with the U.S. FTC R-value rule.
9. Installation. All material, systems and equipment are installed in accordance with the manufacturer's installation instructions and the International Building Code.
10. Outdoor air intakes and exhaust openings. Stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be equipped with not less than a Class I motorized, leakage-rated damper with a maximum leakage rate of 4 cfm per square foot at 1.0 inch water gauge when tested in accordance with AMCA 500D. Stair and shaft vent dampers shall be capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems.
11. Loading dock weatherseals. Cargo doors and loading dock doors are equipped with weather seals to restrict infiltration when vehicles are parked in the doorway.
12. Recessed lighting. Recessed luminaries installed in the building thermal envelope are sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaries are IC-rated and labeled as meeting ASTM E 283. All recessed luminaries are sealed with a gasket or caulk between the housing and interior wall or ceiling covering.
13. Vestibules. Doors that separate conditioned space from the exterior are protected with an enclosed vestibule, with all doors of the vestibule equipped with self-closing devices. Vestibules are designed so interior and exterior doors to not operate simultaneously. Exceptions: Doors not intended to be used as entrance doors; doors that open directly from a space less than 3,000 SF in area; Revolving doors; Doors used primarily to facilitate vehicular movement or material handling and adjacent personnel doors.
14. Other components have supporting documentation for proposed U-Factors.

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

CODE PLAN

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER #51590PE DIGITAL SIGNATURE OREGON JEFFREY T. SCHOTT EXPIRES: DEC. 31, 2018

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS
Scale	As indicated

CS02

12/8/2017 12:33:07 PM

PORT OF ARLINGTON
INDUSTRIAL FLEX BUILDING

FRANCHISE UTILITIES

ELECTRICAL POWER
PACIFICORP
4235 WESTGATE
PENDLETON, OR 97801
CONTACT: TBD
P. TBD
F. TBD
E. TBD

PROPANE SUPPLIER
M.C.G.G.
CONTACT: LEE AAMODT
P. (541) 454-0050
E. (541) 969-0747

TELEPHONE & CABLE
CENTURY LINK
CONTACT: TBD
P. TBD
E. TBD

MUNICIPAL CONTACTS

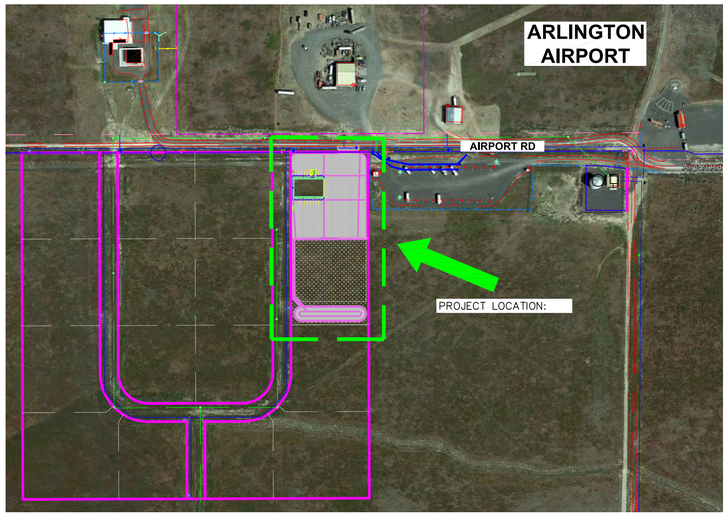
BUILDING DEPARTMENT
MCCOG BUILDING CODE SERVICES
1113 KELLY AVE.
THE DALLES, OR 97058
CONTACT: TBD
P. (541) 298-4461
F. (541) 298-2667

CITY OF ARLINGTON PLANNING
ARLINGTON CITY HALL
500 W 1ST ST., PO BOX 68
ARLINGTON, OR 97812
CONTACT: PAM ROSENBALM
P. (541) 454-2743
E. cityofa@gorge.net

PUBLIC WORKS
ARLINGTON MAINTENANCE DEPT.
COTTONWOOD ST.
ARLINGTON, OR 97812
P. (541) 454-2740
E. cityofa@gorge.net

AUTHORIZED PLAN CHANGES

CHANGES TO THE APPROVED PLANS CAN BE AUTHORIZED ONLY BY THE ENGINEER-OR-RECORD (E.O.R.)



1 C01 **VICINITY MAP**

SCALE 1" = NTS

GENERAL NOTES - PRIVATE IMPROVEMENTS

CONSTRUCTION OF ALL PRIVATE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND PLANS

ALL TESTING PROCEDURES AND RESULTS FOR PRIVATE IMPROVEMENTS CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD FOR CERTIFICATION PRIOR TO ACCEPTANCE BY THE OWNER

CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT CONSTRUCTION DR DRAWINGS FOR PRIVATE IMPROVEMENTS. THE ENGINEER-OF-RECORD SHALL PREPARE FORMAL RECORD DRAWINGS FOR THE PRIVATE IMPROVEMENTS FOR INCORPORATION INTO THE OWNER'S DOCUMENT ARCHIVES.

ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL SIGNS, MARKINGS AND EQUIPMENT SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, USDOT, FHWA. COPIES OF THE MUTCD ARE AVAILABLE ON THE FHWA WEBSITE AT http://mutcd.fhwa.dot.gov

ALL CONSTRUCTION TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY.

EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE APPROVED AND INSTALLED PRIOR TO AND MAINTAINED DURING THE CONSTRUCTION OF PRIVATE IMPROVEMENTS. EPSC CONTROLS SHALL BE IN ACCORDANCE WITH THE APPLICATION FOR ALL MUNICIPAL EPSC PERMITS AND NPDES-1200C PERMITS.

CONTRACTOR SHALL PROVIDE NSF CERTIFICATION TO ENGINEER-OF-RECORD FOR ALL WATERLINE MATERIALS WHICH COME INTO CONTACT WITH DRINKING WATER. SEE OAR 333-061-0087.

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE FROM THE CENTER BY CALLING THE ADMINISTRATION NUMBER (503) 232-1987, OR IN PERSON AT 1415 S.E. ANKENY, PORTLAND, OREGON 97214-1471 (MAILING ADDRESS).

YOU MUST NOTIFY THE CENTER AT LEAST TWO (2) BUSINESS DAYS BEFORE COMMENCING EXCAVATION. CALL TOLL-FREE (800) 332-2344, OR 811. ADDITIONAL INFORMATION CAN BE FOUND AT http://www.digsafelyoregon.com

PROJECT LOCATION

801 AIRPORT RD.
ARLINGTON, OR 97812
REF. LAT/LONG: 45.71942 N, 120.176973 W

LEGAL DESCRIPTION

GILLIAM COUNTY TAX LOT 508, TAX MAP 3N-21E.
LOCATED IN THE NE 1/4 OF THE NW 1/4 OF SECTION 27, TOWNSHIP 3 SOUTH, RANGE 21 EAST, WILLAMETTE MERIDIAN, GILLIAM COUNTY, OR.

PROJECT BENCHMARK

CONTACT ANDERSON PERRY & ASSOCIATES FOR SITE BENCHMARK INFORMATION.

OWNER CONTACTS:

PORT OF ARLINGTON
100 ISLAND PARK WAY
PO BOX 279
ARLINGTON, OR 97812
P. (541) 454-2868
PROJECT MANAGER: PETER MITCHELL

ENGINEER-OF-RECORD

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST
CORVALLIS, OREGON 97330
CONTACT: JEFF SCHOTT, PE
P. (541) 993-2480
E. Jeff@Pillar-inc.com

LAND SURVEYOR

ANDERSON PERRY & ASSOCIATES
1901 N. FIR ST.
PO BOX 1107
LAGRANDE, OR 97850
P. (541) 963-8309

GEOTECHNICAL ENGINEER

MATERIALS TESTING & INSPECTION
2791 S. VICTORY VIEW WAY
BOISE, ID. 83709
CONTACT: CLINTON WYLLIE
P. (208) 376-4748
E. wylliec@ mti-id.com

PERMITS

EXCAVATION & GRADING	CITY OF ARLINGTON	TBD
ESCP	OREGON DEQ	TBD
WATER METER PERMIT	CITY OF ARLINGTON	TBD

UTILITIES GRAPHICS REPRESENTATIONS

EXPOSED SURFACE FEATURES WERE LOCATED BY INSTRUMENT SURVEY, BY THE PROFESSIONAL LAND SURVEYOR. UNDERGROUND UTILITIES SHOWN WERE COMPILED FROM A VARIETY OF GIS DATA SOURCES, RECORD DRAWINGS AND INSTRUMENT SURVEYS. CONTRACTOR IS ADVISED TO VERIFY UNDERGROUND UTILITIES BEFORE DIGGING.

THERE ARE KNOWN UNDERGROUND UTILITIES AND BURIED STRUCTURES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR IS ADVISED TO MAKE AN INDEPENDENT INVESTIGATION.

GEOTECHNICAL INVESTIGATION

"PROPOSED NEW OFFICE BUILDING"
GEOTECHNICAL ENGINEERING REPORT OF
FLEX BUILDING SITE, ARLINGTON MESA
INDUSTRIAL PARK, AIRPORT RD., ARLINGTON, OR

PREPARED BY MTI, BOISE, ID., DATED 8/9/2017
MTI FILE NUMBER B172044g

GRAPHIC LEGEND

(E)DATA	EXISTING DATA CONDUIT, UNDERGROUND
(D)DATA	DEMO (E) DATA CONDUIT, UNDERGROUND
DATA	NEW DATA CONDUIT, UNDERGROUND
(E)FIBER	EXISTING FIBER OPTIC, UNDERGROUND
(D)FIBER	DEMO (E) FIBER OPTIC, UNDERGROUND
FIBER	NEW FIBER OPTIC, UNDERGROUND
(E)GAS	EXISTING GAS PIPE
(D)GAS	DEMO (E) GAS PIPE
GAS	NEW GAS PIPE
(E)OHPOW	EXISTING OVERHEAD POWER LINES
(D)OHPOW	DEMO (E) OVERHEAD POWER LINES
OHPOW	NEW OVERHEAD POWER LINES
(E)SS	EXISTING SANITARY SEWER PIPE
(D)SS	DEMO (E) SANITARY SEWER PIPE
SS	NEW SANITARY SEWER PIPE
(E)SD	EXISTING STORM DRAIN PIPE
(D)SD	DEMO (E) STORM DRAIN PIPE
SD	NEW STORM DRAIN PIPE
(E)UGPOW	EXISTING UNDERGROUND POWER LINES
(D)UGPOW	DEMO (E) UNDERGROUND POWER LINES
UGPOW	NEW UNDERGROUND POWER LINES
(E)W	EXISTING WATER PIPE
(D)W	DEMO (E) WATER PIPE
W	NEW WATER PIPE
(E)FW	EXISTING FIRE WATER PIPE
(D)FW	DEMO (E) FIRE WATER PIPE
FW	NEW FIRE WATER PIPE
(E)IRR	EXISTING IRRIGATION WATER PIPE
(D)IRR	DEMO (E) IRRIGATION WATER PIPE
IRR	NEW IRRIGATION WATER PIPE
S	SANITARY SEWER MANHOLE
D	STORM DRAIN MANHOLE
	CATCH BASIN,METAL OR CONCRETE
	CURB INLET CATCH BASIN
	FIELD INLET, CATCH BASIN
	GUTTER INLET, CATCH BASIN
	SURFACE DRAINAGE SHEET FLOW
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	UTILITY POLE, (LINE INDICATES GUYED)
	HIGH POINT
	LOW POINT
	LIGHT
	REVISION TAG
	NEW SIGN, SINGLE POLE MOUNTED
	EXISTING SIGN, SINGLE POLE MOUNTED
	VALVE
WM	WATER METER
	WATER VALVE
	WATER SHUTOFF VALVE
	THRUST BLOCK
	STRADDLE BLOCK
A	AIR RELEASE VALVE
	WATER LINE BLOW-OFF ASSEMBLY
	SAW CUT EDGE
	REMOVE (DEMO) EXISTING FEATURE
	KEYED CONSTRUCTION NOTE
123.45	SPOT ELEVATION
100	EXISTING GRADE CONTOURS
100	NEW GRADE CONTOURS

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DIGITAL SIGNATURE
OREGON JAN. 13, 2004 JEFFREY T. SCHOTT RENEWAL 06/30/18

KEYED NOTES

A/____	ABOVE (VARIES)	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MFR	MANUFACTURER
AGG	AGGREGATE	MH	MANHOLE
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
		MISC	MISCELLANEOUS
ALT	ALTERNATE	MJ	MECHANICAL JOINT
ARCH	ARCHITECTURAL	(N)	NEW
B/____	BOTTOM OF (VARIES)	N	NORTH
BC	BEGINNING OF CURVE	NTS	NOT-TO-SCALE
BLDG	BUILDING	OC	ON-CENTER
BRG	BEARING	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OH	OVERHEAD
CI	CAST IRON	OPNG	OPENING
CIP	CAST-IN-PLACE	OPP	OPPOSITE
CITY	CITY OF CORVALLIS	PC	PRECAST
CJ	CONTROL JOINT	PCC	PORTLAND CEMENT CONCRETE
CL	CLASS		
CLR	CLEAR	PI	POINT OF INTERSECTION
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEAN OUT	PT	POINT OF TANGENCY
CONC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT
CONST	CONSTRUCTION		
CONT	CONTINUOUS	PVC	POLYVINYLECHLORIDE
DEMO	DEMOLISH or REMOVE	PVI	POINT OF VERTICAL INTERSECTION
DBL	DOUBLE		
DTL	DETAIL	PVMT	PAVEMENT
DIP	DUCTILE IRON PIPE	QTR	QUARTER
DIA	DIAMETER	R	RIGHT
DIM	DIMENSION	RAD	RADIUS
DWG	DRAWING or SHEET	RCP	REINFORCED CONCRETE PIPE
(E)	EXISTING		
E	EAST	RD	ROOF DRAIN
EC	END OF CURVE	REBAR	REINFORCING BAR
EG	EXISTING GRADE	REF	REFERENCE (VERIFY)
EJ	EXPANSION JOINT	REQD	REQUIRED
EL	ELEVATION	REV	REVISION
EOP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
EQL	EQUAL	RG	ROUGH GRADE
FDC	FIRE DEPARTMENT CONNECTION	RJ	RESTRAINED JOINT
		ROW	RIGHT-OF-WAY
FD	FOUNDATION DRAIN	RP	RADIUS POINT
FDN	FOUNDATION	S	SOUTH
FF	FINISH FLOOR	SCHD	SCHEDULE
FG	FINISH GRADE	SF	SQUARE FEET
FH	FIRE HYDRANT	SHT	SHEET or DRAWING
FL	FLOW LINE	SL	SLOPE
FOC	FACE OF CURB	SLR	SEALER
FSV	FIRE SERVICE VAULT	SPEC	SPECIFICATION
FT	FEET	SST	STAINLESS STEEL
FTG	FOOTING	STA	STATION
GA	GAGE	STD	STANDARD
GALV	GALVANIZED	STRUCT	STRUCTURAL
GC	GENERAL CONTRACTOR	SYM	SYMMETRICAL
		T/____	TOP OF (VARIES)
HMAC	HOT MIX ASPHALTIC CONCRETE	T&B	TOP AND BOTTOM
		TEMP	TEMPORARY
HP	HIGH POINT	THK	THICK
HT	HEIGHT	TOC	TOP OF CURB
ID	INSIDE DIAMETER	TOG	TOP OF GRATE
IE	INVERT ELEVATION	TOL	TOLERENCE
INSP	INSPECTION	TOS	TOP OF SLAB
INV	INVERT	TYP	TYPICAL
IR	IRON ROD	UG	UNDERGROUND
JT	JOINT	UNO	UNLESS NOTED OTHERWISE
K/P	1000 POUNDS		
LB	POUND	UTIL	UTILITY
LF	LINEAL FEET	VERT	VERTICAL
LL	LIVE LOAD	VOL	VOLUME
LP	LOW POINT	W	WEST
	LEFT	WH	WEEP HOLE
MAT	MATERIAL	WT	WEIGHT
MATCH	MATCH EXISTING ELEVATION or EDGE	WWF	WELDED WIRE FABRIC

No.	Revision/Issue	Date

Project Name and Address
COVER SHEET
-
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = NTS
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet
C01

C01- COVER SHEET.dwg
12/8/17

GENERAL SITE/CIVIL CONSTRUCTION NOTES:

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987 OR 1-800-332-2344.

PROJECT-SPECIFIC CONDITIONS:

1. All work shall comply with conditions of approval from associated land use decisions.
2. All construction activity shall be conducted in a manner that is consistent with the natural features preservation plan.
3. Vision clearance and sight distance shall be provided at all driveways and street intersections per the City of Arlington Development Code Standards or as otherwise approved by the City Engineer.
4. Subgrade preparation and street sections shall be as described in the project geotechnical report, and related documents, and as shown in the plans, unless modified by mutual consent of the City; Engineer of Record; developer; and geotechnical Engineer of Record. All work, including construction monitoring, shall conform to the Conclusions and Recommendations as described in the geotechnical report. All work shall comply with OSSC Appendix Chapter J including Grading Inspection (J105), Erosion Control (J110).

GENERAL REQUIREMENTS:

1. No modifications to either the approved plans or the City of Arlington Standard Construction Specifications shall be made without prior authorization from the City Engineer.
2. Any dirt or debris deposited upon any street, alley, or sidewalk which creates a potential hazard shall be removed immediately by the project contractor. If for any reason the project contractor cannot immediately accomplish the work or cannot be readily notified, City staff or the developer shall cause the hazard to be removed and bill the project contractor at a rate of 1.5 times the actual cost. Streets must be kept swept and not flushed unless flushing can be accomplished without causing run-off to enter and/or impact public storm drainage systems, including drainageways.
3. All dirt or debris deposited on a public street, alley, or sidewalk from any construction activity that is not an immediate hazard shall be removed before 6:00 p.m. of that same day.
4. All work shall be performed in compliance with applicable OSHA safety regulations.
5. All materials and workmanship shall comply with City of Arlington Standard Construction Specifications; project specifications; and the standards adopted as standard use by Arlington Public Works as determined by the City Engineer.
6. Street cuts shall be per City of Arlington Standard. Existing pavement shall be sawcut after trench backfilling and prior to paving to remove construction- related damaged pavement and provide 6 inches undisturbed base. Cut joints shall be tacked immediately prior to and sand sealed immediately after paving.
7. Existing public utilities to be abandoned shall be removed unless previous written authorization to abandon the utilities in place is obtained from the City.
8. All work within public streets requires traffic control. Traffic control plans consistent with the ODOT Short Term Traffic Control Handbook and the City of Arlington Public Works and City Engineer's customary requirements, MUTCD Section 6 must be submitted and approved prior to any work within the public right-of-way. The contractor shall submit traffic control plans to the City Engineer and Engineer of Record for review and approval a minimum of five (5) working days in advance of the work. If applicable, No Parking signs shall be posted a minimum of 48 hours prior to their effective date.
9. All testing shall be performed in accordance with the City's Public Improvement by Private Contract procedures as determined by the City Engineer and the project specifications. Where the requirements of the City Engineer and the project specifications differ, the City Engineer's requirements shall prevail.
10. The Engineer of Record shall certify all test results as required for all public infrastructure. These test results shall be submitted to the City for review prior to final inspection and acceptance.
11. The contractor is responsible for the coordination of franchise utility work within the public right of way. The City Engineer shall be notified of all franchise utility work not less that five (5) working days before such work is scheduled to begin.
12. Contractor shall maintain as-built drawings during construction, and shall submit legible, complete as-built information to the Engineer of Record at the completion of work.
13. Allowable working hours shall be from 7:00 AM to 6:00 PM unless otherwise prohibited by City of Arlington municipal codes or ordinances.
14. All adjacent property owners shall be notified prior to any new construction.
15. No mechanical trenching shall occur within the drip-line of any tree. Work within the drip-line of any tree shall be performed by hand-digging or boring. Contractor shall protect existing trees. No tree limbs, or roots larger than two (2) inches shall be cut or disturbed without written authorization from a licensed arborist.
16. Permittee shall maintain seven (7) feet horizontal separation from existing City utilities for parallel installations and one (1) foot vertical separation for crossings.
17. All concrete sidewalks, curbs, curb ramps, gutter bars, driveway approaches, accesses and/or street panels that are damaged or removed during construction shall be replaced with full-panel replacements to original or better than original condition using three (3)day 3000psi /5000psi ultimate design concrete. Temporary patches shall be cold mix asphalt or alternate materials as approved by the City. Temporary patches are the responsibility of the permittee and shall be maintained until complete restoration has been completed.
18. Sidewalks shall be replaced within five (5) business days and shall be made handicapped accessible at all times other than during closure for actual concrete placement and curing. If the remainder of site is not returned to original or better condition within ten (10) working days, the permittee shall contact the City and submit a schedule (subject to approval) for completion of that work.
19. If hard surface cuts fall within bicycle lanes, extend surface cut and terminate at strip and/or concrete curb/gutter. No longitudinal patches allowed within bike lane.
20. All unattended excavations shall be backfilled, fenced or plated. Steel plates installed in the public right of way within a traffic lane, sidewalk or bike lane shall have temporary cold patch asphalt ramps installed around all edges, constructed at a slope not to exceed 1 vertical in 12 horizontal.

WATER SYSTEM REQUIREMENTS:

1. Water supply systems shall be installed in accordance with Oregon Department of Transportation Standard Construction Specifications Part 01100 Water Supply Systems.
2. All meter settings 2 inches or less shall be installed per City of Arlington Standard
3. Hot taps shall be provided at Contractor's expense by the contractors own forces or a qualified subcontractor. Contractor shall excavate for the hot tap and shall provide and install associated shoring, stainless steel full circle tapping saddle, and gate valve. The excavation for the hot tap shall be 8 feet long on the tapping side of the main, 4 feet wide centered on the tapping point, 1 foot behind the main, and 2 feet below the main. The tap shall be located a minimum of 18 inches from all joints and appurtenances. Prior to tapping of the line, the contractor shall notify the Engineer of Record, City Engineer and Arlington Public Works, and obtain inspection and/or verbal approval to proceed with the hot tap prior to commencement of further work.
4. All tapping saddles/sleeves shall be full circle stainless steel.
5. All bolts, other than "Tee" bolts, shall be cadmium or zinc plated, or stainless steel.
6. Per AWWA requirements, samples of the water line must be taken a minimum of every 200 feet, at every branch, and at the end of the line. All valved sections of public waterline shall have a 1 inch chlorination corp or service within each valved section to allow each valved section to be tested for pressure and bacterial contamination. The chlorination corps/services shall be located between 18 inches and 10 feet downstream of each valve. Water line acceptance testing shall be pursuant to Oregon Department of Transportation Standard Specifications for Construction Section:
   - 6.1. Section 01140.50 Filling and Flushing for pipes larger than 2" in diameter
   - 6.2. Section 01140.51 Hydrostatic Testing
   - 6.3. Section 01140.52 Disinfecting
7. Angle stops shall be installed at either 10 o'clock or 2 o'clock on the barrel of the main.
8. All sewer main and laterals shall be separated from water main and services in compliance with Oregon Health Division (OAR 333-061-0050 (10)) and Oregon Department of Environmental Quality regulations.
9. All valves 8 inches or smaller shall be resilient seated gate valves and larger valves shall be butterfly valves.
10. Water valves shall be set per Detail No. 302, unless otherwise noted.
11. Fire hydrants shall be installed per Detail No. 303, unless otherwise noted. Acceptable hydrants are: Clow Medallion, Kennedy K81, Mueller Super Centurion, or M&H 129. Hydrant port orientation shall be subject to Fire Department approval. All hydrants shall be painted as directed by City of Arlington Public Works.
12. Fire service vaults with Double Detector Check (DDC) and Fire Department Connection (FDC) shall be installed per Detail No. 308, where installed outside buildings. DDC and FDC installed in and on buildings shall be in accordance with approved M/E/P building plans and permit conditions.
13. Thrust blocks shall be installed per Detail No. 301.
14. All water main shall be cement lined Class 52 AWWA C151 ductile iron, and poly-encased per AWWA standards for Method A, wet trench installation when so directed by the City Engineer or per project specific specifications.
15. All water main and cut/cover services shall be bedded and backfilled per Detail No. 201. All backfill shall be "Class B" unless otherwise specified. All pipe zone and Class B backfill material shall be compacted to minimum 95% of maximum dry density per AASHTO T99. The results of the compaction tests shall be submitted to the City Engineer and Engineer of Record prior to waterline testing and paving.
16. All waterlines shall maintain between 36 inches and 42 inches of cover to finished grade. Water services shall have minimum 30 inches of cover within public right-of-way and shall be installed per City Standards.
17. Meter boxes shall be installed in pairs less than 4 feet apart where feasible, and shall have a 3/4-inch conduit 18 inches deep between the boxes to accommodate multiple meters on a single radio transmitter reader. The conduit shall be placed within 3 inches of the meter's inner corner and each end shall be sealed using a removable plug. Any bends in the conduit shall be made using a 6-inch sweep and conduit joints shall be glued with a manufacturer-approved compound.
18. Concrete caps shall be installed per City Standard where clearance between other utilities is less than 1 foot.
19. All water main high points shall be fitted with an air relief per City Standard.
20. Water main blow-offs shall be installed per City Standard.

SANITARY/STORM SEWER SYSTEM REQUIREMENTS:

1. Sanitary and storm sewers shall be constructed, tested and accepted in accordance with Oregon Department of Transportation Standard Specification for Construction Section 00445, Section 00470, Section 00490 and Section 00495, unless specifically noted otherwise in project plans, specifications, permit conditions or as otherwise directed by the City Engineer.
2. Standard manholes shall be installed per City Standard or per attached detail, unless otherwise noted.
3. Drop manholes shall be installed per City Standard where specified and/or approved by the Engineer of Record.
4. Pipes entering manholes shall have a flexible joint placed within 18 inches (minimum) or a distance equal to 1½ times the pipe diameter, whichever is greater, of the manhole structure.
5. Cleanouts shall be placed on all laterals at the public right-of-way per Detail No. 206, and at a distance of not more than 100 feet on-center for private lines, unless connecting to a manhole at both ends, in which case the requirements of the Oregon Plumbing Specialty Code for spacing between manholes shall apply.
6. Service piping details shall be per attached details.
7. Common service laterals shall be installed per attached details.
8. Gutter inlets shall be installed per attached detail with "bike friendly" (Inland Foundry 517-2 Style C-2 or approved equal). Poured in place bases shall have monolithic bottoms and walls.
9. Curb inlet catch basins shall be installed per attached detail where types are not specified, unless otherwise noted. Poured in place bases shall have monolithic bottoms and walls.
10. All sewer main and laterals shall be separated from water main and services in compliance with Oregon Health Division (OAR 333-061-0050 (10)) and Oregon Department of Environmental Quality regulations.
11. All sewer/storm drain main and laterals shall be bedded and backfilled per attached detail. All backfill shall be "Class B" unless otherwise specified. All pipe zone and Class B backfill material shall be compacted to minimum 95% of maximum dry density per AASHTO T99. The results of the compaction tests shall be submitted to the City Engineer and engineer of Record prior to acceptance testing.
12. Storm Drain and Sanitary Sewer acceptance testing shall be pursuant to City of Arlington Public Works polices; City Engineer's specific requirement; and project specifications. Where requirements are not otherwise specified, all public and private storm and sanitary sewer construction shall be subject to the following testing and acceptance criteria:
    - 12.1. ODOT Section 00445.72 Pipe Testing
    - 12.2. ODOT Section 00445.73 Deflection Testing for Flexible Pipe
    - 12.3. ODOT Section 00445.74 Video Inspection of Sanitary and Storm Sewers
    - 12.4. ODOT Section 00470.71 Sanitary Manhole Acceptance Testing

STREET AND PAVEMENT REQUIREMENTS:

1. Street striping to be as required by City of Arlington Public Works. If no specifications or requirements are provided by Public Works, street striping shall be "heat-fused" hot tape (ODOT Type B), 3M Stamark Series 380I tape (inlaid), or listed ODOT QPL equivalent. Stimsonite/Avery Dennison "heat-fused" tape for legends, symbols and pavement markings. Reflective pavement markers to be 3M RPM 290 Series or equivalent, epoxy as per manufacturer's recommendations. Reflective pavement markers and buttons shall be used for centerline delineation unless other materials are approved. Bike lane symbols are required for bike lanes. Installation of all products shall be per manufacturer's recommendations. Layout of striping shall meet MUTCD standards. Notify the City at least 48 hours prior to installing any striping – a City representative will need to be on site during striping installation, unless verbal authorization is provided to proceed with the installation of striping without a representative being on-site. Allow for 20-day review on all "approved equal" submittals, and shall be reviewed and approved by the Engineer of Record and City Engineer.
2. Durable pavement markings and marking materials to be installed in the public right of way shall be approved by the City Engineer prior to installation. The Engineer of Record and City Public Works shall be notified by the contractor two weeks in advance of installation to schedule a prestriping and marking meeting with the Engineer of Record, striping contractor, and City representatives as deemed necessary.
3. All sidewalk, curb (ADA) ramps, and driveway construction shall be consistent with ADA standards and requirements.
4. All ADA ramps shall be constructed with truncated domes per City standards, details shown in plans herein and the projecte specifications and OSSC requirements.
5. Private roads, pavement and parking lots shall be striped and marked in accordance with Oregon Department of Transportation Standard Specifications for Construction Section 00850, Section 00860, Section 00867; and drawing details and project specifications.
6. Any and all pavement markings damaged during construction shall be replaced by the Contractor to the original condition or better.

7. TESTING & INSPECTION SCHEDULE:

1. SUBGRADE AND BASE COMPACTION
   - 1.1. SUBGRADE COMPACTION
     - 1.1.1. Field density testing is required at a rate of one test per 50 lineal feet per lift.
     - 1.1.2. Maximum lift thickness for field density testing shall be limited to six inches.
     - 1.1.3. Moisture density curves shall be conducted per AASHTO D-698 unless otherwise required per the project geotechnical report. A new moisture density curve shall be developed for every 1,000 cubic yards of material placed, for every type of material encountered. Moisture density curves over 30 days old shall be considered invalid; a new curve shall be developed.
       - 1.1.3.1. Minimum density in the field shall be 95% of the maximum dry density, unless otherwise required per the project geotechnical report. The geotechnical report shall govern in the even of discrepancies with these requirements.
         - 1.1.3.1.1. Where tests indicate less than the specified percent compaction has been achieved, the substandard area perimeter shall be determined by additional testing. The substandard area shall be re-compcated and retested until the specified level of compaction has been achieved.
   - 1.2. BASE COMPACTION
     - 1.2.1. Field density testing is required at a rate of one test per 50 lineal feet per lift.
     - 1.2.2. Maximum lift thickness for field density testing shall be limited to six inches.
     - 1.2.3. Moisture density curves shall be conducted per AASHTO D-698 unless otherwise required per the project geotechnical report. A new moisture density curve shall be developed for every 1,000 cubic yards of material placed, for every type of material encountered. Moisture density curves over 30 days old shall be considered invalid; a new curve shall be developed.
       - 1.2.3.1. Minimum density in the field shall be 95% of the maximum dry density, unless otherwise required per the project geotechnical report. The geotechnical report shall govern in the even of discrepancies with these requirements.
         - 1.1.3.1.1. Where tests indicate less than the specified percent compaction has been achieved, the substandard area perimeter shall be determined by additional testing. The substandard area shall be re-compcated and retested until the specified level of compaction has been achieved
2. PAVEMENT AND WALKS
   - 2.1. ASPHALT PAVEMENT
     - 2.1.1. Dense Graded Hot Mix Asphalt Concrete (HMAC) shall be compacted to 92% of the theoretical maximum density (Rice Density) as determined in accordance with ODOT TM 306.
       - 2.1.1.1. Density testing shall be conducted at 50-to-100 foot intervals, unless otherwise noted.
   - 2.2. PORTLAND CEMENT CONCRETE PAVEMENT
     - 2.2.1. Samples shall taken for strength, slump, air content and temperature testing in accordance with ASTM C 172, ASTM C 31 and ACI 318: 5.6, 5.8. For compressive strength testing, a minimum of four (4) specimens shall be molded, with one being tested at 7-days, two being tested at 28-days and one being held in reserve. The compressive strength shall be the average of two or more 28-day test specimen results. If the specified compressive strength is not achieved at 28-days, the fourth, reserve specimen shall be tested at 56-days.
   - 2.3. CURBS
     - 2.3.1. Compressive strength testing is not required for extruded curbs, unless otherwise noted in the plans or by the Engineer of Record or City Engineer. Cast-in-place curbs shall be tested in accordance with the same requirements as for Portland Cement Concrete Pavement.
   - 2.4. WALKS
     - 2.4.1. Compressive strength testing for sidewalks shall be in accordance with the same requirements as for Portland Cement Concrete Pavement.
3. SANITARY SEWER

   Tests shall be made after all service connections, manholes, backfilling and compaction are completed.

   - 3.1. PIPE LEAKAGE TESTING
     - 3.1.1. Leakage testing of pipes shall be by either hydrostatic testing or air testing
       - 3.1.1.1. Hydrostatic Testing: pipes shall sustain a maximum limit of 0.3 gallons per hour per inch of pipe diameter per 100 feet of pipe. The hydrostatic head used for testing shall exceed the maximum ground water level by six feet, or at a minimum the pipes shall be tested to a minimum hydraulic head of six feet above the top of the highest section of pipe in the test section, including service connections. The pipe may be filled 24 hours prior to the time of testing if exfiltration test methods are used.
       - 3.1.1.2. Air Testing: pipes shall be cleaned and plugged with suitable test plugs, having an overpressure safety valve that limits pressure to not more than 10 psi. Air shall be added slowly to the test section until the pressure is 4.0 psi greater than the average back pressure of any present groundwater (increase test pressure 0.433 psi for each foot of average water depth over the top of the line). After the initial pressure is reached, allow at least 2 minutes for the temperature of the air in the pressurized pipe to stabilize, during which time only the air required to maintain the specified initial pressure is added. After the temperature stabilization period, record the time for the pressure to drop from 3.5 psi to 2.5 psi greater than the average back pressure of any ground water submerging the pipe. The pipe section shall be deemed to pass the leakage test if the recorded time equals or exceeds the following:

Pipe Diam.	Test Time (All but Concrete) Equation (sec)	Min. (sec)	Test Time (Concrete Pipe Only) Equation (sec)	Min. (sec)
4"	0.190 x length	113	0.380 x length	226
6"	0.427 x length	170	0.854 x length	340
8"	0.760 x length	227	1.520 x length	454
10"	1.187 x length	283	2.374 x length	566
12"	1.709 x length	340	3.418 x length	680
15"	2.671 x length	425	5.342 x length	850
18"	3.846 x length	510	7.692 x length	1,020
21"	5.235 x length	595	10.470 x length	1,190
24"	6.837 x length	680	13.675 x length	1,360

   - 3.2. MANHOLE LEAKAGE TESTING
     - 3.2.1. Manholes shall be vacuum tested for leakage in accordance with ASTM C 1244-93. A vacuum of 10-inch of mercury shall be drawn on the manhole while all entering pipes are temporarily plugged and braced. The time shall be measured for the vacuum to drop to 9-inch of mercury. A manhole shall be deemed to pass if this time equals or exceed the following:

MH Depth	48" diameter	60" diameter	72" diameter
8 ft or less	20 seconds	26 seconds	33 seconds
10 feet	25 seconds	33 seconds	41 seconds
12 feet	30 seconds	39 seconds	49 seconds
14 feet	35 seconds	46 seconds	57 seconds
16 feet	40 seconds	52 seconds	67 seconds
18 feet	45 seconds	59 seconds	73 seconds
20 feet	50 seconds	65 seconds	81 seconds
22 feet	55 seconds	72 seconds	89 seconds
24 feet	59 seconds	78 seconds	97 seconds

   - 3.3. TRENCH BACKFILL TESTING
     - 3.3.1. For Trench Class B, a minimum of one field density test shall be conducted on compacted material for every 50 lineal feet when the pipe is installed in a cut trench. Where the pipe is installed in fill, compaction testing shall be conducted at a rate of one test every 3 lineal feet.
       - 3.3.1.1. Compaction testing shall be taken on each lift placed, in accordance with AASHTO T-99.
       - 3.3.1.2. Moisture density curves shall be developed for each source of compacted material, for each 1,000 cubic yards of material placed. Moisture density curves for aggregate shall only be considered valid if they have been conducted within 30 days of the moisture density field compaction testing.
   - 3.4. PIPE DEFLECTION TESTING
     - 3.4.1. PVC and other flexible piping shall be subjected to a mandrel test for deflection. The diameter of the mandrel shall not be less than 95% of the pipe diameter, unless otherwise approved by the Engineer of Record. Any section of pipe that fails to pass the mandrel freely shall be removed and repaired as directed by the Engineer of Record.
   - 3.5. TELEVISION INSPECTION
     - 3.5.1. All public lines 4-inches and larger in diameter; and private lines specifically noted in the plans or specifications in diameter shall be inspected by camera.

4. STORM SEWER

   Tests shall be made after all service connections, manholes, backfilling and compaction are completed.

   - 4.1. TRENCH BACKFILL
     - 4.1.1. Trench backfill testing shall be in accordance with the same requirements as for sanitary sewers.
   - 4.2. PIPE DEFLECTION TESTING
     - 4.2.1. Pipe deflection testing shall be in accordance with the same requirements as for sanitary sewers.
   - 4.3. TELEVISION INSPECTION
     - 4.3.1. Television testing shall be in accordance with the same requirements as for sanitary sewers.

5. WATERLINES
   - 5.1. THRUST BLOCKS
     - 5.1.1. Thrust blocks shall be visually inspected by the Engineer of Record, or their designated representative, prior to covering. Provide not less than 48 hour notice for inspection requests.
   - 5.2. ANGLE STOP AND TAPPING INSPECTION
     - 5.2.1. Angle stops, saddles and tapping sleeves shall be inspected by the Engineer of Record, or their designated representative, prior to covering. Provide not less than 48 hour notice for inspection request.
   - 5.3. TRENCH BACKFILL
     - 5.3.1. Trench backfill testing shall be in accordance with the same requirements as for sanitary sewers.
   - 5.4. INITIAL FLUSH
     - 5.4.1. Prior to any testing, an initial flush shall be performed on all new main lines, hydrants, and appurtenances, including FDC's, such that a velocity of 2.5 feet per second is achieved through the new main.
   - 5.5. PRESSURE AND LEAKAGE TESTING
     - 5.5.1. Waterlines shall be pressure tested and concurrently leakage tested in accordance with AWWA standards for domestic service and public lines, and per NFPA 13 and 24 requirements for private underground fire water supply lines. Testing shall be witnessed by the Engineer of Record and, at their option, City staff.
   - 5.6. CHLORINATION
     - 5.6.1. New waterlines shall be chlorinated to a minimum of 25 parts per million (ppm) and must have a residual of 10 ppm after 24 hours. After chlorination, the line shall be flushed to achieve upstream mainline residual. Hyperchlorinated water shall be flushed into the sanitary sewer. After flushing, the line shall remain closed for an additional 24 hour period, for regrowth.
   - 5.7. MICROBIOLOGICAL TESTING
     - 5.7.1. Microbiological samples shall be taken after the regrowth period in accordance with City Standards and Oregon Department of Human Services rules and procedures. Testing of microbiological samples shall be done by laboratory Accredited by through the Oregon Laboratory Accreditation Program.
   - 5.8. UNDERGROUND FIRE WATER SUPPLY PIPING CERTIFICATION
     - 5.8.1. Underground water lines serving sprinkler or fire water protection systems shall be certified by the installing contractor in accordance with NFPA 13 requirements. An NFPA 13 Underground Fire Water Supply Certification Form shall be submitted to the Engineer of Record and City Engineer by the installing contractor prior to acceptance of the completed installation.

6. STRUCTURES & VAULTS
   - 6.1. Underground vaults shall be designed by a Registered Professional Engineer in the State of Oregon per ASTM C858-10e1 and ASTM C857-11. Shop drawings and sealed calculations shall be submitted to the Engineer of Record, and special inspections shall comply with the Oregon Structural Specialty Code.

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OREGON
JAN. 19, 2006
JEFFREY T. SCHMITT
RENEWAL 06/30/18

KEYED NOTES

1 -
2 -
3 -

No.	Revision/Issue	Date

Project Name and Address

GENERAL NOTES

-

PORT OF ARLINGTON OREGON
INDSTRIAL FLEX BUILDING
801 AIRPORT RD
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale AS NOTED
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C02**

C02 CENERAL NOTES
12/8/17

WATER SERVICE MATERIALS STANDARDS

-PVC
  ASTM D1785 SCH 80 W/APPROVED GLUE & FITTINGS OUTSIDE OF PUBLIC EASEMENT ONLY, UNLESS APPROVED
-HDPE WATER SERVICE PIPE (UP TO 2")
  PE3608, ASTM D3035, AWWA 901, DIAMETER RATIO DR9 (200psig).
-HDPE FITTINGS
  FITTINGS TO BE BRASS OR BRONZE PER CITY OF ARLINGTON STANDARDS.
-COPPER
  ASTM B-88 TYPE K COPPER W/APPROVED SWAGED OR THREADED FITTINGS
-DUCTILE IRON PIPE (D.I. PIPE, DIP):
  PE, MJ, OR PUSH-ON: CLASS 52 MEETING AWWA C151/A21.51-02 W/CEMENT MORTAR LINING MEETING AWWA C104/A21/4-03 U.N.O. MECHANICALLY RESTRAINED CONNECTIONS W/MEGA-LUG OR FIELD-LOCK OR APPROVED EQUAL MAY BE PERMITTED IN-LIEU OF THRUST BLOCKS W/APPROVAL OF ENGINEER. FULLY RESTRAINED SYSTEM TO INCLUDE PIPE-TO-PIPE CONNECTIONS AS WELL AS FITTING CONNECTIONS. SUBMITTAL REQUIRED.
  FLANGED: CLASS 53 MIN. MEETING AWWA C115/A21.15-99 W/CEMENT MORTAR LINING MEETING AWWA C104/A21/4-03 U.N.O.
-D.I. FITTINGS:
  MJ OR PUSH-ON: AWWA C110/A21.10-03 & AWWA C111/A21.11-00
  FLANGED: AWWA C110/A21.10 & FLANGES SHALL MEET AWWA C115/A21.51-99
-STEEL PIPE (ABOVE GROUND USE ONLY U.N.O.)
  PIPE: ASTM A-53B ALSO MEETING ASTM A795 FOR FIRE SERVICE.
  FLANGES: ASME B16.5-1996 "PIPE FLANGES & FLANGED FITTINGS", CLASS 150. MATERIAL: ASTM A234
  FLANGED FITTINGS: ASME B16.5-1996 "PIPE FLANGES & FLANGED FITTINGS", CLASS 150. MATERIAL: ASTM A234
  THREADED FITTINGS: ASME B16.11-2001 "FORGED FITTINGS, SOCKET WELDING & THREADED", CLASS 3,000. MATERIAL: ASTM A234
-VALVES & HYDRANTS
  GENERAL: ALL VALVES & HYDRANTS SHALL BE UL LISTED & FM APPROVED FOR FIRE SERVICE IN ADDITION TO OTHER STD'S LISTED BELOW. ALL VALVES TO HAVE FLANGED FITTINGS U.N.O. ON DRAWINGS
  GATE VALVES: AWWA C500-02 OR AWWA C509-01. FITTINGS TO BE MJ OR FLANGED AS SHOWN ON DRAWINGS
  SWING CHECK VALVES: AWWA C508-01
  WAFER CHECK VALVES: FM/UL LISTED
  BUTTERFLY VALVES: AWWA C504-00
  WAFER BUTTERFLY VALVES: UL/FM APPROVED FOR FIRE SERVICE TO BE INSTALLED BETWEEN ASME B16.1 125 LB OR B16.5 CLASS 150 FLANGES.
  HYDRANTS: DRY BARREL TYPE, AWWA C502-94 W/"HYDRA-STORZ"ADAPTER AS REQ'D BY THE AHJ
  POST INDICATOR VALVES: UL/FM APPROVED INSTALLED ON APPROVED NON-RISING STEM GATE VALVE (SEE ABOVE)
-MISC. ACCESSORIES:
  GASKETS: SHALL MEET THE REQUIREMENTS SET FORTH AWWA C110/A21.10-03; C111/A21.11-00; & C115/A21.15-99 & BE APPROVED FOR SERVICE W/WATER
  BOLTS: SHALL BE ASTM GALV. A307, APPROVED STAINLESS STEEL, OR APPROVED D.I. (D.I. FOR UNDERGROUND ONLY)
  FDC: FIRE DEPARTMENT CONNECTIONS SHALL BE UL/FM LISTED FOR FIRE SERVICE & SHALL MEET THE REQUIREMENTS OF NFPA 1693 "STANDARD FOR FIRE HOSE CONNECTIONS"
  VALVE BOXES: VALVE BOXES SHALL BE PACIFIC WATER WORKS MDL 910, TYLER/UNION 7016-7026 OR APPPRVOED EQUIVALENT W/ADJUSTABLE EXTENSION AND INSTALLED AT ALL UNDERGROUND VALVES. LIDS SHALL BE MARKED "WATER"
- WATER METER ACCESSORIES
  CORPORATION STOPS: AWWA C800-66 PER MUNICIPAL STANDARDS; OTHERWISE CORP STOPS SHALL BE FORD FB600 BALLCORP, AWWA/CC TAPER THREAD INLET BY FLARE COPPER OUTLET OR APPROVED EQUIVALENT
  ANGLE METER VALVES: ASTM B62 PER MUNICIPAL STANDARDS; OTHERWISE FORD, JONES MUELLER OR OTHER APPROVED MANUFACTURER WITH A LOCK WING.
  METER BOX (1½" & 2"): PER MUNICIPAL STANDARDS; OTHERWISE CHRISTY CONCRETE PRODUCTS B-36 CONCRETE UTILITY BOX WITH B36G CAST IRON, SELF CLOSING ROADING LID.
  METER: PER MUNICIPAL STANDARDS - SET BY MUNICIPALITY UNLESS OTHERWISE NOTED.
  SERVICE SADDLE: PER STANDARDS; OTHERWISE ROMAC 306 DOUBLE STRAP FULL CIRCLE STAINLESS STEEL OR APPROVED EQUIVALENT.
  CUSTOMER SERVICE VALVE: PER MUNICIPAL STANDARDS; OTHERWISE,
  TAPPING SLEEVE: PER MUNICIPAL STANDARDS; OTHERWISE ROMAC SST OR APPROVED EQUIVALENT

MATERIALS IN PUBLIC UTILITY EASEMENT OR RIGHT-OF-WAY
- ALL MATERIALS USED IN PUBLIC RIGHT-OF-WAY OR PUBLIC LINES WITHIN PUBLIC UTILITY EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE PER APPROVED MUNICIPAL STANDARD SPECIFICATIONS, DETAILS AND CONDITIONS OF PERMIT APPROVAL.

NOTICE:
- CONTRACTOR SHALL PROVIDE PROOF OF NSF 61 CERTIFICATION FOR ALL WATER SERVICE PIPING MATERIALS THAT WILL COME IN CONTACT WITH DRINKING WATER. (SEE OAR 333-061-0087)

TYPICAL WATER SERVICE CONSTRUCTION NOTES:

A) WATER PIPES, OTHER THAN DOMESTIC SERVICE LINES TO AND FROM WATER METER SETTINGS, SHALL BE INSTALLED WITH NOT LESS THAN 36 INCHES AND NOT MORE THAN 42 INCHES OF COVER. WATER SERVICE PIPING TO AND FROM WATER SERVICE METERS SHALL BE INSTALLED WITH NOT LESS THAN 30 INCHES OF COVER, OR ONE FOOT BELOW THE LOCAL FROST DEPTH, WHICHEVER IS GREATER.

B) WATER PIPING SHALL BE SEPARATED FROM SANITARY SEWER PIPING IN COMPLIANCE WITH OREGON HEALTH DIVISION REQUIREMENTS (OAR 333-061-0050 (10)) AND OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS. WHERE CLEARANCE BETWEEN CROSSING PIPES OTHER THAN SEWER LINES IS LESS THAN 12 INCHES, INSTALL A CAP OVER THE LOWER LINE PER DTL 4, SHT C051. WHERE 12 INCHES OF CLEARANCE BETWEEN SANITARY SEWER PIPING AND CROSSING WATER PIPING CANNOT BE ACHIEVED, NOTIFY THE ENGINEER-OF-RECORD PRIOR TO PROCEEDING WITH CONSTRUCTION.

C) ALL WATER PIPING, VALVES, HYDRANTS AND FIXTURES SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, CITY AND COUNTY STANDARDS, NOTES ON PLANS AND THE OREGON PLUMBING SPECIALTY CODE.

D) PRIVATE WATER PIPING & FITTINGS INSTALLATION AND MATERIALS SHALL COMPLY WITH OREGON PLUMBING SPECIALTY CODE, CH. 6. ALL CHANGES IN PIPE DIRECTION SHALL BE ACCOMPLISHED BY DEFLECTING THE PIPE AT JOINTS NOT MORE THAN 80% OF THE MANUFACTURER'S PUBLISHED DEFLECTION LIMITS, OR THROUGH THE USE OF FITTINGS USING 1/4 BENDS OR LESS. UNLESS OTHERWISE NOTED, PIPES, VALVES, HYDRANTS AND MISCELLANEOUS ACCESSORIES SHALL BE OF MATERIALS NOTED IN THE PROJECT SPECIFICATIONS, CITY SPECIFICATIONS, NOTES ON PLANS AND OREGON PLUMBING SPECIALTY CODE. VAULTS AND UNDERGROUND STRUCTURES SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON IN ACCORDANCE WITH ASTM C858-10e1 AND ASTM C857-11.

E) PIPES SHALL BE INSTALLED IN TRENCHES IN ACCORDANCE WITH 8/C51 WITH CLASS B BACKFILL, UNLESS OTHERWISE NOTED. PROVIDE AN ELECTRICALLY CONDUCTIVE 18-GAUGE, INSULATED COPPER, OR HEAVIER GREEN TRACER WIRE IN THE TRENCH OF ALL NONMETALLIC STORM DRAIN PIPING. TERMINATE ONE END OF THE TRACER WIRE ABOVE FINISHED GRADE AT A CLEARLY MARKED LOCATION IN ACCORDANCE WITH OPSC REQUIREMENTS. SPLICE TRACER WIRE INTO EXISTING TRACER WIRES WHERE CONNECTING NEW PIPING TO EXISTING PIPING OR STRUCTURES.

F) UNLESS OTHERWISE NOTED, ALL WATER SERVICE PIPING SHALL BE CONSTRUCTED USING RESTRAINED JOINTS, OR OF PIPE RUNS RESTRAINED BY THRUST BLOCKING IN ACCORDANCE WITH STANDARD 6/C51 & 1/C52

G) UNLESS OTHERWISE NOTED, VALVES AND VALVE BOXES SHALL BE INSTALLED PER STANDARD 9/C51; METER SETTINGS SHALL BE PER STANDARD 10/C51.

F) CONNECTION OF WATER SERVICE PIPING TO BUILDING PIPING SHALL BE IN PER SPECIFICATIONS AND M/E/P BUILDING PLANS. WHERE NO DETAILS ARE PROVIDED IN M/E/P PLANS, CONNECTION OF WATER SERVICE PIPING TO BUILDING PIPING SHALL BE PER 6/C51

G) WATER PIPING SHALL NOT BE INSTALLED UNDER FOOTING OR THRU WALLS UNLESS SPECIFICALLY INDICATED ON PLANS.

H) PROVIDE PRODUCT SUBMITTALS/SHOP DRAWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ALL WATER PIPE MATERIALS; VALVES & GASKETS; VALVE BOXES, HAND HOLES & COVERS; VAULTS, LIDS & DOORS; AND OTHER RELATED WATER SERVICE MATERIALS.

TYPICAL SANITARY SEWER CONSTRUCTION NOTES:

A) INSTALL CLEAN-OUTS PER OREGON PLUMBING SPECIALTY CODE SECTION 707.0 AND 11/C51 WHERE INDICATED & AS OTHERWISE REQUIRED TO LIMIT THE MAXIMUM LENGTH OF PIPE BETWEEN CLEAN-OUTS TO NO MORE THAN 100 FEET, UNLESS THE PIPE IS CONNECTED AT BOTH ENDS TO MANHOLES.

B) SANITARY SEWER PIPING SHALL BE SEPARATED FROM WATER PIPING IN COMPLIANCE WITH OREGON HEALTH DIVISION REQUIREMENTS (OAR 333-061-0050 (10)) AND OREGON DEPARTMENT OF ENVIRONMETAL QUALITY REGULATIONS. WHERE CLEARANCE BETWEEN CROSSING PIPES OTHER THAN WATER LINES IS LESS THAN 12 INCHES, INSTALL A CAP OVER THE LOWER LINE PER 9/C52. WHERE 12 INCHES OF CLEARANCE BETWEEN WATER PIPING AND CROSSING SANITARY PIPING CANNOT BE ACHIEVED, NOTIFY THE ENGINEER-OF-RECORD PRIOR TO PROCEEDING WITH CONSTRUCTION.

C) ALL SANITARY PIPING AND MANHOLES SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, CITY AND COUNTY STANDARDS, NOTES ON PLANS AND THE OREGON PLUMBING SPECIALTY CODE.

D) PRIVATE SANITARY SEWER PIPING & FITTINGS INSTALLATION AND MATERIALS SHALL COMPLY WITH OREGON PLUMBING SPECIALTY CODE, CH. 7. ALL CHANGES IN PIPE DIRECTION SHALL BE ACCOMPLISHED BY DEFLECTING THE PIPE AT JOINTS NOT MORE THAN 80% OF THE MANUFACTURER'S PUBLISHED DEFLECTION LIMITS, OR THROUGH THE USE OF FITTINGS USING 1/4 BENDS OR LESS AND/OR SANITARY WYES. UNLESS OTHERWISE NOTED, SANITARY SEWER PIPES INSTALLED MORE THAN 2 FEET OUTSIDE OF BUILDINGS CALLED OUT AS "PVC" SHALL BE ASTM D3034, SDR 35 PIPE UP TO ø15", AND ASTM F 679 FOR LINES ø18" AND LARGER. MANHOLE LIDS AND VAULT DOORS AND LIDS SHALL BE TRAFFIC RATED FOR H-20 LOADING, U.N.O. VAULTS AND UNDERGROUND STRUCTURES SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON IN ACCORDANCE WITH ASTM C858-10e1 AND ASTM C857-11. CONNECTION TO MANHOLES SHALL INCLUDE A FLEXIBLE FITTING WITHIN 18" (FERNCO OR APPROVED) OF MANHOLE. CORE MANHOLE FOR KORE-N-SEAL OR APPROVED SEALED ADAPTER. INSTALL PER MANF. AND GROUT VOID AS REQ'D. INSTALL NEW OR MODIFY EXISTING CHANNELS PER 4/C53.

E) PIPES SHALL BE INSTALLED IN TRENCHES IN ACCORDANCE WITH 8/C51 WITH CLASS B BACKFILL, UNLESS OTHERWISE NOTED. PROVIDE AN ELECTRICALLY CONDUCTIVE 18-GAUGE, INSULATED COPPER, OR HEAVIER GREEN TRACER WIRE IN THE TRENCH OF ALL NONMETALLIC STORM DRAIN PIPING. TERMINATE ONE END OF THE TRACER WIRE ABOVE FINISHED GRADE OR AT A CLEANOUT OR OTHER CLEARLY MARKED LOCATION IN ACCORDANCE WITH OPSC REQUIREMENTS. SPLICE TRACER WIRE INTO EXISTING TRACER WIRES WHERE CONNECTING NEW PIPING TO EXISTING PIPING OR STRUCTURES.

F) UNLESS OTHERWISE NOTED, SANITARY SEWER SERVICE CONNECTIONS SHALL BE MADE USING AN INSERT-A-TEE OR OTHER APPROVED TEE, WYE OR COMMERCIAL SADDLE . ENDS OF LATERALS AT BUILDINGS OR LOT LINES SHALL BE PLUGGED AND MARKED PER 6/C51 UNLESS CONTINUATION OF CONSTRUCTION WILL OCCUR IMMEDIATELY. UNLESS OTHERWISE NOTED IN BUILDING M/E/P PLANS, CONNECTION OF SANITARY SEWER PIPING TO BUILDING DRAINS SHALL BE IN ACCORDANCE WITH 11/C51

F) PROVIDE PRODUCT SUBMITTALS/SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ALL SANITARY SEWER PIPE MATERIALS; CLEANOUT & COVERS; MANHOLES & VAULTS, LIDS AND DOORS; AND OTHER RELATED SANITARY SEWER MATERIALS.

G) WATER PIPING SHALL NOT BE INSTALLED UNDER FOOTING OR THRU WALLS UNLESS SPECIFICALLY INDICATED ON PLANS.

H) PROVIDE PRODUCT SUBMITTALS/SHOP DRAWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ALL WATER PIPE MATERIALS; VALVES & GASKETS; VALVE BOXES, HAND HOLES & COVERS; VAULTS, LIDS & DOORS; AND OTHER RELATED WATER SERVICE MATERIALS.

TYPICAL STORM DRAIN CONSTRUCTION NOTES:

A) INSTALL CLEAN-OUTS PER 11/C51 WHERE INDICATED & AS OTHERWISE REQUIRED TO LIMIT THE MAXIMUM LENGTH OF PIPE BETWEEN CLEAN-OUTS TO NO MORE THAN 100 FEET UNLESS THE PIPE IS CONNECTED AT BOTH ENDS TO MANHOLES.

B) WHERE CLEARANCE BETWEEN CROSSING PIPES IS LESS THAN 12 INCHES, INSTALL A CAP OVER THE LOWER LINE PER 9/C52

C) CONNECT ROOF DOWNSPOUTS TO UNDERGROUND RAIN DRAINS PER BUILDING DESIGN DRAWINGS.

D) PRIVATE STORM WATER CATCH BASINS, PIPING & FITTINGS INSTALLATION AND MATERIALS SHALL COMPLY WITH OREGON PLUMBING SPECIALTY CODE, CH. 11. ALL CHANGES IN PIPE DIRECTION SHALL BE ACCOMPLISHED BY DEFLECTING THE PIPE AT JOINTS NOT MORE THAN 80% OF THE MANUFACTURER'S PUBLISHED DEFLECTION LIMITS, OR THROUGH THE USE OF FITTINGS USING 1/4 BENDS OR LESS AND/OR SANITARY WYES. UNLESS OTHERWISE NOTED, STORM DRAIN PIPES CALLED OUT AS "PVC" SHALL BE ASTM D3034, SDR 35 PIPE UP TO ø15", AND ASTM F 679 FOR LINES ø18" AND LARGER; PIPES CALLED OUT AS "HDPE" or "N12" SHALL BE SMOOTH INTERIOR WALL ASTM F2648 PIPE. CATCH BASINS OUTLETS SHALL HAVE INTEGRAL OIL/WATER SHIELDS OR A DOWNTURNED 1/4 BEND. CATCH BASIN GRATES, MANHOLE LIDS AND VAULT DOORS AND LIDS SHALL BE TRAFFIC RATED FOR H-20 LOADING, U.N.O. MANHOLES AND BASES SHALL BE PRECAST UNLESS OTHERWISE APPROVED, IN ACCORDANCE WITH ASTM C478, LATEST EDITION. UNLESS OTHERWISE NOTED, CATCH BASIN STRUCTURES SHALL BE OF PRECAST CONCRETE AND SHALL BE IN ACCORDANCE WITH ASTM C913, LATEST EDITION. VAULTS AND UNDERGROUND STRUCTURES SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON IN ACCORDANCE WITH ASTM C858-10e1 AND ASTM C857-11.

E) PIPES SHALL BE INSTALLED IN TRENCHES IN ACCORDANCE WITH 8/C51 WITH CLASS B BACKFILL, UNLESS OTHERWISE NOTED. PROVIDE AN ELECTRICALLY CONDUCTIVE 18-GAUGE, INSULATED COPPER, OR HEAVIER GREEN TRACER WIRE IN THE TRENCH OF ALL NONMETALLIC STORM DRAIN PIPING. TERMINATE ONE END OF THE TRACER WIRE ABOVE FINISHED GRADE OR AT A CLEANOUT OR OTHER CLEARLY MARKED LOCATION. SPLICE TRACER WIRE INTO EXISTING TRACER WIRES WHERE CONNECTING NEW PIPING TO EXISTING PIPING OR STRUCTURES.

F) PROVIDE PRODUCT SUBMITTALS/SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ALL STORM DRAINAGE PIPE MATERIALS; CATCH BASINS; CLEANOUT & COVERS; MANHOLES & VAULTS; GRATES AND LIDS; AND OTHER RELATED STORM DRAINAGE MATERIALS.

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JAN. 13, 2004
JEFFREY T. SCHMITT
RENEWAL 06/30/18

KEYED NOTES

① -
② -
③ -

No.	Revision/Issue	Date

Project Name and Address

GENERAL NOTES

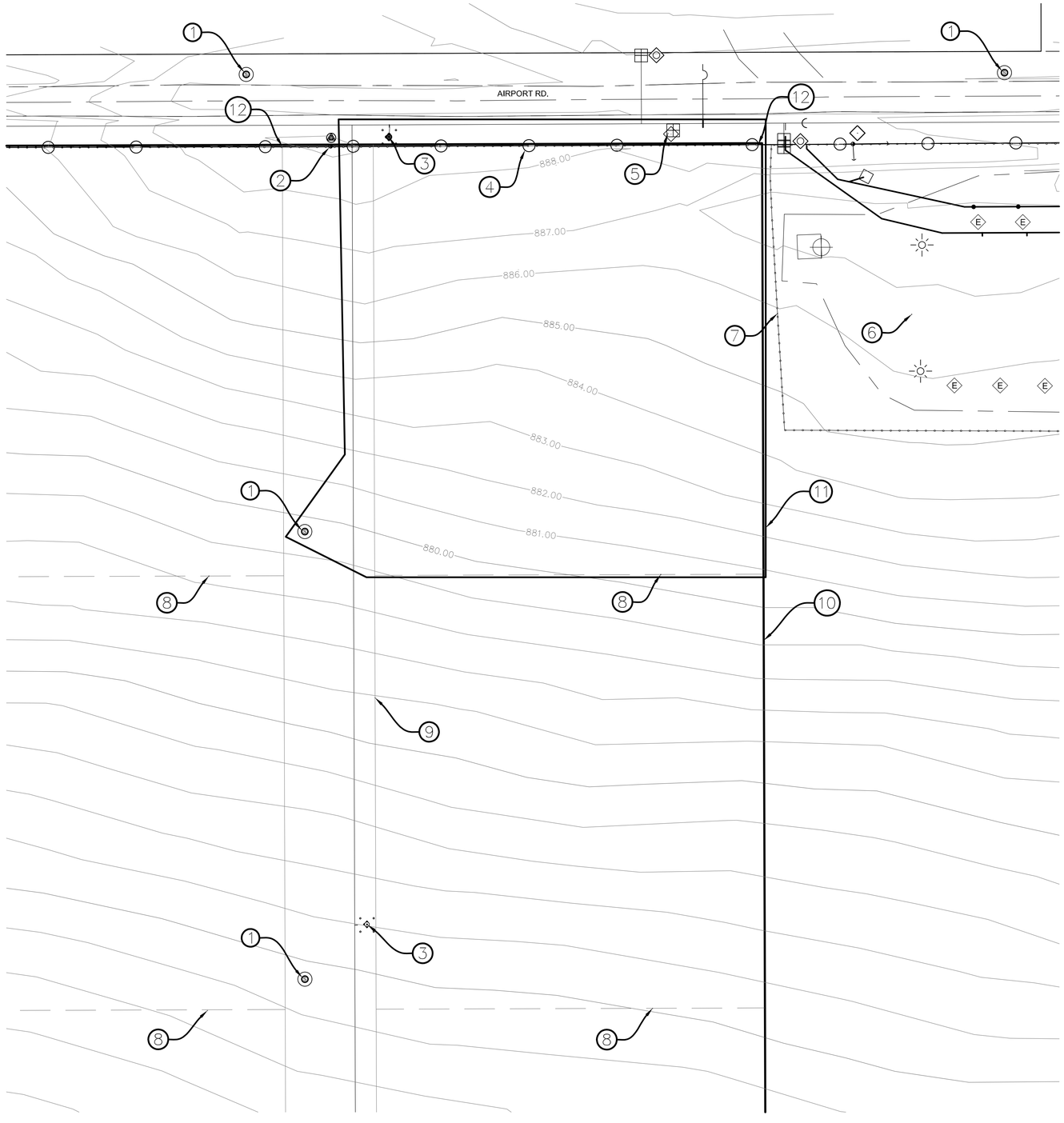
-

PORT OF ARLINGTON OREGON
INDUSTIAL FLEX BUILDING
801 AIRPORT RD
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale AS NOTED
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C03**

C03 - GENERAL NOTES.dwg
12/8/17



1 C04 **EXISTING CONDITION & DEMO PLAN**

SCALE 1" = 40'

N

C04– EXISTING CONDITION & DEMO PLAN.dwg

12/8/17

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JAN. 19, 2014
JEFFREY T. SCHEFF
RENEWAL 06/30/18

KEYED NOTES

1. EXISTING SANITARY SEWER MANHOLE
2. EXISTING POWER POLE
3. EXISTING FIRE HYDRANT
4. REMOVE EXISTING FENCE
5. RELOCATE EXISTING WATER SERVICE FEATURE (AIR RELIEF).
6. EXISTING RV PARK
7. EXISTING FENCE AT RV PARK TO REMAIN.
8. TENTATIVE FUTURE LOT LINES NOT PLATTED.
9. TENTATIVE BOUNDARY OF FUTURE STREET NOT PLATTED.
10. APPROX. EXTENT OF PROPERTY PER SURVEYOR.
11. APPROX. EXTENT OF PROJECT AREA
12. END OF FENCE REMOVAL

No.	Revision/Issue	Date

Project Name and Address

EXISTING CONDITION & DEMO PLAN

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = 40'
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C04**

EROSION PREVENTION & SEDIMENT CONTROL PLANS

GRADING, STREET & UTILITY PHASE ESC NOTES

1. SEEDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NRCS. STANDARDS. FOR BROADCAST SEEDING, HARROW AND/OR ROLL–WALK IN GRASS SEED AFTER BROADCASTING. SEED TO BE APPLIED BETWEEN OCTOBER AND FEBRUARY. SEED APPLICATION RATE SHALL BE MEASURED BY PURE LIVE SEED WEIGHT. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
   * DWARF GRASS MIX (MIN. 100 LB./AC.)
     DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
     CREEPING RED FESCUE (20% BY WEIGHT)
   * SEED MIX (BY PLS WEIGHT, ACTUAL RATE WILL BE HIGHER):
     –2#/ACRE SANDBERG BLUEGRASS
     –6#/ACRE "CRITANA" THICKSPIKE WHEATGRASS
     –7#/ACRE "VAVILOV" SIBERIAN WHEATGRASS
   DOUBLE RATES FOR BROADCAST APPLICATION

2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK–WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN–OFF VELOCITY.

3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES. SEE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL SECTION 4.1 FOR REQUIREMENTS.

5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID–SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF–SITE MUST BE TRANSPORTED IN WATER–TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT–LADEN WATER.

11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN–OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH–OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH–OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN–OFF INTO THE STORM WATER SYSTEM.

14. USE BMPs SUCH AS CHECK–DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN–OFF FROM REACHING DISCHARGE POINTS.

15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

CLEARING & DEMO, SAW-CUTS & DUST CONTROL

1. SURFACE WATER APPLICATION SHALL BE USED FOR DUST CONTROL OF EXPOSED SOILS. NOT LESS THAN ONE WATER TRUCK SHALL BE AVAILABLE DURING DRY WEATHER CONSTRUCTION. WATER IS TO BE OBTAINED FROM AN EXISTING FIRE HYDRANT THROUGH A METER OBTAINED FROM THE MUNICIPALITY OR FACILITY OWNER, OR AS OTHERWISE DIRECTED PRIOR TO CONSTRUCTION DURING PRE–CONSTRUCTION MEETINGS AND CORRESPONDENCE.

2. ON–SITE STOCKPILES OF SOIL SHALL BE COVERED WITH 6–MIL PLASTIC SHEETING DURING WET WEATHER FOR WIND AND WATER EROSION PREVENTION. FOR DRY WEATHER, STOCKPILES SHALL BE COVERED OR KEPT WET TO CONTROL DUST, PER CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL STANDARD DETAIL 4.1.8 (Available online at www.cityofalbany.net)

3. ALL CONCRETE AND ASPHALT PAVEMENT SAW–CUTTING SHALL BE PERFORMED UTILIZING EQUIPMENT WHICH UTILIZES A WET PROCESS WITH INTEGRAL VACUUMING OF DUST AT THE POINT OF PRODUCTION. IN LIEU OF POINT–SOURCE VACUUMING, CONTRACTOR SHALL INSTALL BERMS TO COMPLETELY SURROUND ALL CONCRETE PAVEMENT, CONCRETE STRUCTURE AND ASPHALT PAVEMENT SAWCUTTING OPERATIONS TO PREVENT DUST AND SEDIMENT LADEN SLURRY FROM ESCAPING THE LIMITS OF THE DESIGNATED DISTURBED AREA SHOWN ON THE PLANS. SLURRY FROM SAW–CUTTING OPERATIONS SHALL COLLECTED AND DISPOSED OF IN THE DESIGNATED CONCRETE DISPOSAL FACILITY LOCATION.

ESC BMP PHASED IMPLEMENTATION NOTES

1. ALL BASE EROSION CONTROL MEASURES PER TABLE 4–3 & TABLE 4–4 SHOWN ON SHEET C0.3 (REFERENCE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL – Available online at www.cityofalbany.net) SHALL BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. WET WEATHER MEASURES SHALL PER TABLE 4–3 & TABLE 4–4 SHOWN ON SHEET C0.3 (REFERENCE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL) SHALL BE ESTABLISHED OR INSTALLED OVER ALL DISTURBED SURFACES NO LATER THAN OCTOBER 1ST, AND SHALL REMAIN IN PLACE AND BE MAINTAINED AND INSPECTED ROUTINELY UNTIL AT LEAST THRU APRIL, DURING THE WET SEASON. TEMPORARY OR PERMANENT SEEDING APPLICATIONS MUST BE COMPLETED PRIOR TO SEPTEMBER 1ST OF EACH YEAR.

3. PERMANENT GROUND COVER SHALL BE ESTABLISHED OR REESTABLISHED PRIOR TO REMOVING EROSION PREVENTION AND SEDIMENT CONTROL MEASURES. THE CITY OF ALBANY INSPECTOR SHALL MAKE THE FINAL DETERMINATION REGARDING WHEN PERMANENT GROUND COVER HAS BEEN FULLY ESTABLISHED.

4. INLET PROTECTION SHALL BE IN–PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

5. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF THE CONSTRUCTION PROJECT, AND AS EARLY AS PRACTICAL DURING INSTALLATION OF INITIAL BASE EROSION CONTROL MEASURES (SEE SHEET C12). ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. VISIBLE SOIL TRACKS FROM TRUCK AND VEHICLE TIRES LEAVING THE SITE, OR GRAVEL AND SEDIMENT TRACKED INTO THE PUBLIC RIGHT–OF–WAY, SHALL BE CLEANED BY SWEEPING OR VACUUMING PRIOR TO THE END OF EACH WORK DAY.

6. RUN–ON AND RUN–OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO THE BEGINNING OF SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN–ON AND RUN–OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION. RELOCATE CONTROLS AS REQUIRED FOR CONSTRUCTION PROGRESS, AND AS APPROVED BY THE SITE EROSION PREVENTION AND SEDIMENT CONTROLS INSPECTOR.

7. SEDIMENT BARRIERS TAGGED (BY KEYNOTES) "TO BE INSTALLED AFTER GRADING" SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF FINISHED GRADE SHOWN ON PLANS.

Table 4-3 Erosion Control Matrix

Major Ground Disturbances including Commercial, Subdivision, and Large Sites

		Site Slope							Stock Piles
Base Measures		<2%	<10%	<15%	<20%	<30%	<50%	>50%	
1	Gravel construction entrance (BMP 4.2.1)	X	X	X	X	X	X	X	
2	Sediment barrier at toe of disturbed area (BMP 4.3.1 to 4.3.5)	X	X	X	X	X	X	X	X
3	Undisturbed buffer at toe of disturbed area (BMP 4.1.2)	A	A						
4	Sediment barrier installed on contours (spacing) (BMP 4.3.1)		X (300')	X (150')	X (100')	X (50')	X (25')	X (25')	
5	Temporary interceptor dikes/swales around active work areas (BMP 4.2.7)	#	#	#	#	#	#	#	
6	Storm drain inlet protection barrier (BMP 4.3.7)	X	X	X	X	X	X	X	X
7	Concrete washout facility (5.2.10 -BMP 10)	X	X	X	X	X	X	X	
8	Dust control (BMP 4.1.9)	X	X	X	X	X	X	X	X
Wet Weather Measures									
9	Established grass (BMP 4.1.3)		*	*	*	*	*	*	
10	2" min. straw mulch cover (BMP 4.1.4)		O	O	O	O	O		O
11	Erosion blankets with anchors (BMP 4.1.7)		O	O	O	O	O	O	
12	6-mil plastic sheet cover (BMP 4.1.8)		O	O	O	O	O	O	*
13	Sediment traps or ponds (BMP 4.3.9 and 4.3.10)		O	O	O	O	O		
Post Construction									
14	Reestablish permanent ground cover prior to removing erosion measures (BMP 4.1.3)	X	X	X	X	X	X	X	

Key:

X	Base measure
A	Alternate to Base Measure
#	Optional base measure, can use as applicable
*	Supplemental wet weather measures (October - April) (Seeding prior to September 1)
O	Alternate supplemental wet weather measures, can be used as applicable

Table 4-4 Erosion Control Matrix

Utilities Construction and Stock Piles/Ditches/Swales Protection

		Utilities Construction		Stock Piles	Ditches/ Swales
Base Measures		Catch Basin drainage	Ditch Drainage		
1	Sediment fence or barrier at toe (BMP 4.3.1)			X	X
2	Check dams (BMP 4.2.6)		X		X
3	Storm drain inlet protection barrier (BMP 4.2.7)				
Wet Weather Measures					
4	Established grass (BMP 4.1.3)				*
5	6-mil plastic sheet cover (BMP 4.1.8)			*	
6	2"-min. straw mulch cover (BMP 4.1.4)			O	O
7	Erosion blanket with anchors (BMP 4.1.7)				O
Post Construction					
8	Reestablish permanent ground cover or landscape prior to removing erosion measures (BMP 4.1.3)	X	X		X

Key:

X	Base measure
*	Supplemental wet weather measure (October - April) (Seeding prior to September 1)
O	Alternate wet weather measure to *

INSPECTION FREQUENCY:

SITE CONDITION	MINIMUM FREQUENCY
1) ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.
2) PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3) INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS.
4) PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

* HOLD A PRE–CON MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EC INSPECTOR.
* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH OREGON DEQ REQUIREMENTS.
* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH OREGON DEQ REQUIREMENTS.
* CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO OREGON DEQ IN THE FORM OF AN ACTION PLAN.

PRE-CONSTRUCTION, CLEARING & DEMO NOTES

1. ALL BASE EROSION CONTROL MEASURES PER TABLE 4–3 & TABLE 4–4 SHOWN ON SHEET C11 (REFERENCE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL – AVAILABLE ONLINE AT www.cityofalbany.net) SHALL BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS. BARRIERS SHALL BE CONSTRUCTED PER CITY OF ALBANY STANDARD DETAILS AND REQUIREMENTS, AS CONTAINED IN THE LATEST EDITION OF THE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL.

3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALLL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND HE CONSTRUCTION BARRIER.

4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF THE CONSTRUCTION PROJECT, AND AS EARLY AS PRACTICAL DURING INSTALLATION OF INITIAL BASE EROSION CONTROL MEASURES. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. VISIBLE SOIL TRACKS FROM TRUCK AND VEHICLE TIRES LEAVING THE SITE, OR GRAVEL AND SEDIMENT TRACKED INTO THE PUBLIC RIGHT–OF–WAY, SHALL BE CLEANED BY SWEEPING OR VACUUMING PRIOR TO THE END OF EACH WORK DAY.

5. RUN–ON AND RUN–OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO THE BEGINNING OF SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN–ON AND RUN–OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

6. CONSTRUCTION ACTIVITIES ARE LIKELY TO OCCUR DURING WET WEATHER. PER SOILS REPORT, REMOVE SOIL FROM EXISTING PAVEMENT OUTWARD, AND BACKFILL AS EXCAVATION PROGRESSES. ALL SOILS EXPOSED FOR MORE THAN 48 HOURS ARE TO BE COVERED WITH 6 MIL PLASTIC SHEATHING OR 2" OF MULCH. PROVIDE GRAVEL BERM AT DOWNSTREAM END OF PLASTIC SHEATHING. ALL EXPOSED SOIL REMAINING AT EDGES OF IMPROVEMENTS SHALL BE COVERED WITH MATTING OR MULCH WHEN EXPOSED FOR MORE THAN 48 HOURS.

7. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO REMAIN IN PLACE UNTIL PERMANENT LANDSCAPING IS ESTABLISHED.

8. FENCE INSTALLATION IN WETLAND AREAS WILL OCCUR OUTSIDE OF EROSION & SEDIMENT CONTROL BOUNDARY. THIS WORK MAY ONLY BE EXECUTED IN THE DRY SEASON, AND ALL LOOSE OR EXPOSED SOIL SHALL BE REMOVED FROM FENCE AREA AND STOCKPILED WITHIN ESC BOUNDARY OR REMOVED FROM SITE.

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS
PARKING LOT, GRAVEL YARD, GRASS PASTURE, & WETLAND.

DEVELOPED CONDITIONS
BUILDING GRAVELED PARKING AREA, LANDSCAPED AREA

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

* CLEARING (MARCH, 2018)
* GRADING (MARCH, 2018)
* UTILITY INSTALLATION (APRIL, 2018)
* STREET CONSTRUCTION (NA)
* PARKING LOT PAVING (SEPT., 2018)
* BUILDING PAD & FDN INSTALLATION (MAY, 2018)
* FINAL STABILIZATION (SEPT., 2018)

TOTAL SITE AREA = 30 ACRES

TOTAL DISTURBED AREA = 3.36 ACRES

SITE SOIL CLASSIFICATION:

40B SAGEHILL FINE SANDY LOAM

ON–SITE SOILS HAVE SLIGHT TO MODERATE EROSION POTENTIAL

RECEIVING WATER BODIES:

DITCH

PERMITTEE'S SITE INSPECTOR:

COMPANY/AGENCY: T.B.D.
INSPECTOR'S NAME: T.B.D.
PHONE: T.B.D.
FAX: T.B.D.
E–MAIL: T.B.D.
DESCRIPTION OF INSPECTOR'S EXPERIENCE:
T.B.D.

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ's GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP's WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL

EPSC PLAN NOTES:

1. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE IMPLEMENTATION OF THESE EPSC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE EPSC MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS APPROVED UNTIL THE LOTS ARE SOLD.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE EPSC MEASURES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE EPSC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE EPSC MEASURES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DOES NOT LEAVE THE SITE.
6. THE EPSC MEASURES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT–LADEN WATER INTO THE DOWNSTREAM SYSTEM.
8. STABILIZED ROCK ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE–ESTABLISHED.
10. PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
11. SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1 FOR EACH PHASE OF CONSTRUCTION.
12. IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1 THROUGH APRIL 30, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT. SEE THE CITY OF ALBANY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL (CHAPTER 4) FOR REQUIREMENTS.
13. THE DEVELOPER SHALL REMOVE EPSC MEASURES ONLY AFTER VEGETATION IS FULLY ESTABLISHED.

1 C11 **EROSION CONTROL NOTES**

SCALE 1" = NTS

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541–752–9202
WWW.PILLAR–INC.COM

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHOTT
RENEWAL 06/30/18

KEYED NOTES

No.	Revision/Issue	Date

Project Name and Address

EROSION CONTROL NOTES

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = NTS
0 1"
THE BAR ABOVE IS 1–INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C11**

12/8/17 C11– EROSION CONTROL NOTES.dwg

EPSC SURFACE HATCH LEGEND

- (N) PERMANENT SEEDED, LANDSCAPED OR SOD COVERED AREAS
- TEMPORARY CONSTRUCTION ENTRANCE OR SIDEWALK SUBGRADE FILTER STRIP
- TEMPORARY/PERMANENT MATTING
- PERMANENT SEEDED AREAS THAT MAY REQUIRE SURFACE ROUGHENING AND/OR TEMPORARY SEEDING DURING CONSTRUCTION
- NEW IMPERVIOUS SURFACE: CONCRETE SLAB OR PCC PAVEMENT
- NEW IMPERVIOUS SURFACE: HMAC PAVEMENT
- NEW PERMANENT GRAVEL
- TEMPORARY GRAVEL WORKING PAD FOR CONSTRUCTION OPERATIONS OR STORAGE

POLLUTION CONTROL BMP PLAN SYMBOL LEGEND

BMP 1	DEWATERING OPERATIONS	EPSC MANUAL SECTION 5.2.1
BMP 2	PAVING OPERATIONS	EPSC MANUAL SECTION 5.2.2
BMP 3	CONSTRUCTION & PAINTING	EPSC MANUAL SECTION 5.2.3
BMP 4	MATERIAL DELIVERY & STORAGE	EPSC MANUAL SECTION 5.2.4
BMP 5	MATERIAL USE	EPSC MANUAL SECTION 5.2.5
BMP 6	SPILL PREVENTION & CONTROL	EPSC MANUAL SECTION 5.2.6
BMP 7	SOLID WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.7
BMP 8	HAZARDOUS WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.8
BMP 9	CONTAMINATED SOIL MANAGEMENT	EPSC MANUAL SECTION 5.2.9
BMP 10	CONCRETE WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.10
BMP 11	VEHICLE & EQUIPMENT CLEANING	EPSC MANUAL SECTION 5.2.11
BMP 12	VEHICLE & EQUIPMENT FUELING	EPSC MANUAL SECTION 5.2.12
BMP 13	VEHICLE & EQUIPMENT MAINTENANCE	EPSC MANUAL SECTION 5.2.13
BMP 14	EMPLOYEE & SUBCONTRACTOR TRAINING	EPSC MANUAL SECTION 5.2.14

GENERAL POLLUTION CONTROL MEASURES:

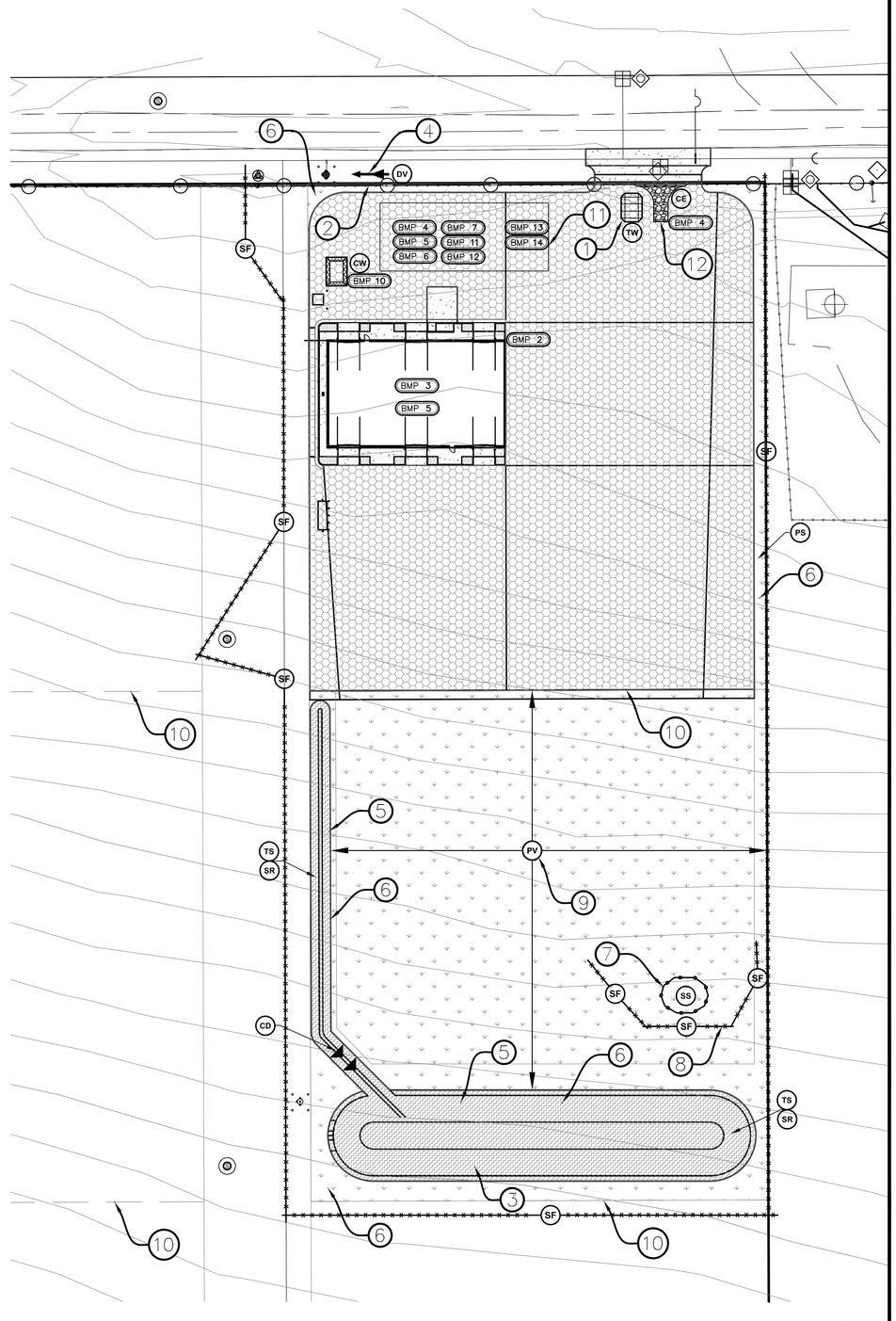
1. AT MINIMUM, THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION MEASURES FOR:
   - 1.1. OFF-SITE TRACKING OF SOILS (BMP 1, 2, 3)
   - 1.2. MATERIAL MANAGEMENT (BMP 4, 5, 6)
   - 1.3. WASTE MANAGEMENT (BMP 7, 8, 9, 10)
   - 1.4. VEHICLE & EQUIPMENT MANAGEMENT (BMP 11, 12, 13)
2. CONTRACTOR SHALL IMPLEMENT AND TRACK AN EMPLOYEE & SUBCONTRACTOR TRAINING PROGRAM TO REDUCE AND CONTROL CONSTRUCTION-RELATED POLLUTION (BMP 14).
3. CONTRACTOR SHALL REVIEW THE SITE CHARACTERISTICS AND NATURE OF THE CONSTRUCTION PROJECT IN ORDER TO IDENTIFY POLLUTION RISKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING A PROJECT-SPECIFIC POLLUTION CONTROL & RECYCLING PLAN, AND SHALL SUBMIT THE PLAN TO THE OWNER/DEVELOPER FOR REVIEW AND APPROVAL.
4. LOCATIONS WHERE SPECIFIC POLLUTION-CONTROL BMP'S ARE MANDATORY ARE INDICATED WITH TAGS ON THE PLANS, PER THE LEGEND ABOVE. IMPLEMENTATION OF OTHER ADDITIONAL BMP'S NOT SPECIFICALLY SHOWN MAY BE REQUIRED, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK TO COMPLY MINIMUM, SPECIFIED & OTHER REQ'D BMP'S.
5. "EPSC MANUAL" REFERS TO LATEST EDITION OF CITY OF ALBANY EROSION & PRREVENTION SEDIMENT CONTROL MANUAL. (Available online at www.cityofalbany.net)

EPSC BMP PLAN SYMBOL LEGEND

MARK/SYMBOL	DESCRIPTION	BMP DETAIL AND/OR REFERENCE
TSD	TEMP. SLOPE DRAIN	DETAIL DRAWING 4.2.3 EPSC MANUAL SECTION 4.2.3
OP	OUTLET PROTECTION	DETAIL DRAWING 4.2.4 EPSC MANUAL SECTION 4.2.4
SR	SURFACE ROUGHENING	DETAIL DRAWINGS 4.2.5a,b EPSC MANUAL SECTION 4.2.5
CD	CHECK DAM	DETAIL DRAWINGS 4.2.6a,b EPSC MANUAL SECTION 4.2.6
DV	DIVERSION DIKE/SWALE	DETAIL DRAWING 4.2.7 DETAIL DRAWING 4.2.7
GLS	GRASS-LINED SWALE	EPSC MANUAL SECTION 4.2.8
SF	SEDIMENT FENCE	DETAIL DRAWING 4.3.1 EPSC MANUAL SECTION 4.3.1
FB	FILTER BERM	DETAIL DRAWING 4.3.4 EPSC MANUAL SECTION 4.3.4
IP	INLET PROTECTION	DETAIL DRAWING 4.3.7a,b,c,d,e EPSC MANUAL SECTION 4.3.7
CW	CONCRETE WASHOUT FACILITY	DETAIL DRAWING 5.2.10 EPSC MANUAL SECTION 5.2.10 (BMP 10)
SS	SOIL STOCKPILE	DETAIL DRAWING 4.1.8
	DRAINAGE FLOW DIRECTION	N/A

MARK/SYMBOL	DESCRIPTION	BMP DETAIL AND/OR REFERENCE
PS	PERMANENT SEEDING	EPSC MANUAL SECTION 4.1.3 EPSC MANUAL SECTION 4.1.5
TS	TEMPORARY SEEDING	EPSC MANUAL SECTION 4.1.3 EPSC MANUAL SECTION 4.1.5
SO	SOD	EPSC MANUAL SECTION 4.1.6
PV	PRESERVE VEGETATION	EPSC MANUAL SECTION 4.1.1
GC	GROUND COVER	EPSC MANUAL SECTION 4.1.4 EPSC MANUAL SECTION 4.1.5 EPSC MANUAL APPENDIX E (WORKSHEET)
BZ	BUFFER ZONE	EPSC MANUAL SECTION 4.1.2
M	MATTING	DETAIL DRAWINGS 4.1.7a,b,c DETAIL MANUAL SECTION 4.1.7
BFB	BIOFILTER BAGS	DETAIL DRAWING 4.3.2 EPSC MANUAL SECTION 4.3.2
CE	CONSTRUCTION ENTRANCE	DETAIL DRAWING 4.2.1 EPSC MANUAL SECTION 4.2.1
TW	TIRE WASH	DETAIL DRAWING 4.2.2 EPSC MANUAL SECTION 4.2.2

NOTES:
1. "DETAILS" REFERS TO CITY OF ALBANY EPSC MANUAL STANDARD DETAILS (Available online at www.cityofalbany.net)
2. "EPSC MANUAL" REFERS TO LATEST EDITION OF CITY OF ALBANY EROSION & PREVENTION SEDIMENT CONTROL MANUAL.
3. SYMBOLS SHOWN ON PLANS ARE NOT INTENDED TO BE TO SHOW BMP's TO SCALE – SEE DETAILS FOR DIMENSIONS.



1 / C12 **EROSION CONTROL CLEARING & DEMO PLAN**

SCALE 1" = 40'

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 19, 2014
JEFFREY T. SCHMITT
RENEWAL 06/30/18

KEYED NOTES

1. TIRE WASH MAY BE REQUIRED IN WET WEATHER. OTHERWISE NOT REQUIRED.
2. REMOVE EXISTING BARBED WIRE FENCE ALONG NORTH SIDE OF PROJECT AREA.
3. STORM WATER SWALE TO FUNCTION DURING AND AFTER CONSTRUCTION AS A STORM WATER INTERCEPTOR.
4. PROVIDE TEMPORARY BERM ALONG NORTH SIDE OF PROPERTY TO DIVERT UPLAND FLOW TO WEST AND AWAY FROM PROJECT AREA.
5. PROVIDE ROUGHENING AND TEMPORARY SEEDING AT STORM WATER TRENCH AND DETENTION FACILITY.
6. ROUGHEN DISTURBED AREAS DURING CONSTRUCTION AND PRIOR TO SEEDING TYP.
7. SOIL STOCK PILE AREA IF REQUIRED. SIZE MAY VARY.
8. PROVIDE SEDIMENT FENCE AT TOE OF STOCKPILE. WET SOIL STOCKPILE TO PREVENT WIND EROSION.
9. PRESERVE EXISTING VEGATATION WHERE POSSIBLE.
10. TENTATIVE FUTURE LOT LINES NOT PLATTED
11. COORDINATE JOB-TRAILER AND LAYDOWN AREA IN GRAVELED PARKING AREA. APPLY BMP'S AS REQUIRED.
12. CONSTRUCTION ENTRANCE

No.	Revision/Issue	Date

Project Name and Address

EROSION CONTROL CLEARING & DEMO PLAN

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = 40'
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C12**

C12- EROSION CONTROL CLEARING & DEMO PLAN.dwg
12/8/17

EPSC SURFACE HATCH LEGEND

- (N) PERMANENT SEEDED, LANDSCAPED OR SOD COVERED AREAS
- TEMPORARY CONSTRUCTION ENTRANCE OR SIDEWALK SUBGRADE FILTER STRIP
- TEMPORARY/PERMANENT MATTING
- TEMPORARY MULCH GROUND COVER
- NEW IMPERVIOUS SURFACE: CONCRETE SLAB OR PCC PAVEMENT
- NEW IMPERVIOUS SURFACE: HMAC PAVEMENT
- NEW PERMANENT GRAVEL
- TEMPORARY GRAVEL WORKING PAD FOR CONSTRUCTION OPERATIONS OR STORAGE

POLLUTION CONTROL BMP PLAN SYMBOL LEGEND

BMP 1	DEWATERING OPERATIONS	EPSC MANUAL SECTION 5.2.1
BMP 2	PAVING OPERATIONS	EPSC MANUAL SECTION 5.2.2
BMP 3	CONSTRUCTION & PAINTING	EPSC MANUAL SECTION 5.2.3
BMP 4	MATERIAL DELIVERY & STORAGE	EPSC MANUAL SECTION 5.2.4
BMP 5	MATERIAL USE	EPSC MANUAL SECTION 5.2.5
BMP 6	SPILL PREVENTION & CONTROL	EPSC MANUAL SECTION 5.2.6
BMP 7	SOLID WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.7
BMP 8	HAZARDOUS WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.8
BMP 9	CONTAMINATED SOIL MANAGEMENT	EPSC MANUAL SECTION 5.2.9
BMP 10	CONCRETE WASTE MANAGEMENT	EPSC MANUAL SECTION 5.2.10
BMP 11	VEHICLE & EQUIPMENT CLEANING	EPSC MANUAL SECTION 5.2.11
BMP 12	VEHICLE & EQUIPMENT FUELING	EPSC MANUAL SECTION 5.2.12
BMP 13	VEHICLE & EQUIPMENT MAINTENANCE	EPSC MANUAL SECTION 5.2.13
BMP 14	EMPLOYEE & SUBCONTRACTOR TRAINING	EPSC MANUAL SECTION 5.2.14

GENERAL POLLUTION CONTROL MEASURES:

1. AT MINIMUM, THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION MEASURES FOR:
   - 1.1. OFF-SITE TRACKING OF SOILS (BMP 1, 2, 3)
   - 1.2. MATERIAL MANAGEMENT (BMP 4, 5, 6)
   - 1.3. WASTE MANAGEMENT (BMP 7, 8, 9, 10)
   - 1.4. VEHICLE & EQUIPMENT MANAGEMENT (BMP 11, 12, 13)
2. CONTRACTOR SHALL IMPLEMENT AND TRACK AN EMPLOYEE & SUBCONTRACTOR TRAINING PROGRAM TO REDUCE AND CONTROL CONSTRUCTION-RELATED POLLUTION (BMP 14).
3. CONTRACTOR SHALL REVIEW THE SITE CHARACTERISTICS AND NATURE OF THE CONSTRUCTION PROJECT IN ORDER TO IDENTIFY POLLUTION RISKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING A PROJECT-SPECIFIC POLLUTION CONTROL & RECYCLING PLAN, AND SHALL SUBMIT THE PLAN TO THE OWNER/DEVELOPER FOR REVIEW AND APPROVAL.
4. LOCATIONS WHERE SPECIFIC POLLUTION-CONTROL BMP'S ARE MANDATORY ARE INDICATED WITH TAGS ON THE PLANS, PER THE LEGEND ABOVE. IMPLEMENTATION OF OTHER ADDITIONAL BMP'S NOT SPECIFICALLY SHOWN MAY BE REQUIRED, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK TO COMPLY MINIMUM, SPECIFIED & OTHER REQ'D BMP'S.
5. "EPSC MANUAL" REFERS TO LATEST EDITION OF CITY OF ALBANY EROSION & PRREVENTION SEDIMENT CONTROL MANUAL. (Available online at www.cityofalbany.net)

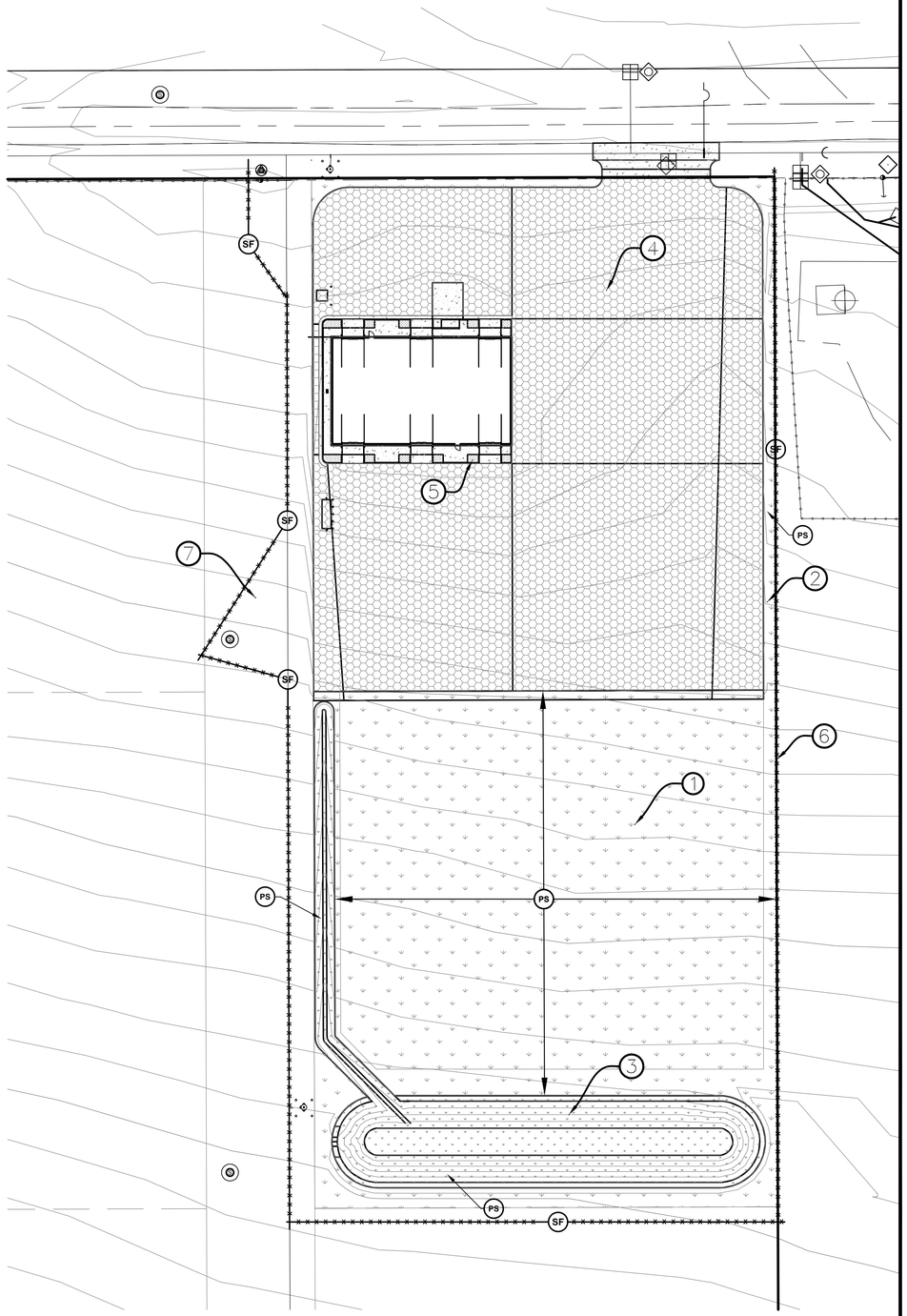
EPSC BMP PLAN SYMBOL LEGEND

MARK/SYMBOL	DESCRIPTION	BMP DETAIL AND/OR REFERENCE
TSD	TEMP. SLOPE DRAIN	DETAIL DRAWING 4.2.3 EPSC MANUAL SECTION 4.2.3
OP	OUTLET PROTECTION	DETAIL DRAWING 4.2.4 EPSC MANUAL SECTION 4.2.4
SR	SURFACE ROUGHENING	DETAIL DRAWINGS 4.2.5a,b EPSC MANUAL SECTION 4.2.5
CD	CHECK DAM	DETAIL DRAWINGS 4.2.6a,b EPSC MANUAL SECTION 4.2.6
DV	DIVERSION DIKE/SWALE	DETAIL DRAWING 4.2.7 DETAIL DRAWING 4.2.7
GLS	GRASS-LINED SWALE	EPSC MANUAL SECTION 4.2.8
SF	SEDIMENT FENCE	DETAIL DRAWING 4.3.1 EPSC MANUAL SECTION 4.3.1
FB	FILTER BERM	DETAIL DRAWING 4.3.4 EPSC MANUAL SECTION 4.3.4
IP	INLET PROTECTION	DETAIL DRAWING 4.3.7a,b,c,d,e EPSC MANUAL SECTION 4.3.7
CW	CONCRETE WASHOUT FACILITY	DETAIL DRAWING 5.2.10 EPSC MANUAL SECTION 5.2.10 (BMP 10)
SS	SOIL STOCKPILE	DETAIL DRAWING 4.1.8
	DRAINAGE FLOW DIRECTION	N/A

MARK/SYMBOL	DESCRIPTION	BMP DETAIL AND/OR REFERENCE
PS	PERMANENT SEEDING	EPSC MANUAL SECTION 4.1.3 EPSC MANUAL SECTION 4.1.5
TS	TEMPORARY SEEDING	EPSC MANUAL SECTION 4.1.3 EPSC MANUAL SECTION 4.1.5
SO	SOD	EPSC MANUAL SECTION 4.1.6
PV	PRESERVE VEGETATION	EPSC MANUAL SECTION 4.1.1
GC	GROUND COVER	EPSC MANUAL SECTION 4.1.4 EPSC MANUAL SECTION 4.1.5 EPSC MANUAL APPENDIX E (WORKSHEET)
BZ	BUFFER ZONE	EPSC MANUAL SECTION 4.1.2
M	MATTING	DETAIL DRAWINGS 4.1.7a,b,c DETAIL MANUAL SECTION 4.1.7
BFB	BIOFILTER BAGS	DETAIL DRAWING 4.3.2 EPSC MANUAL SECTION 4.3.2
CE	CONSTRUCTION ENTRANCE	DETAIL DRAWING 4.2.1 EPSC MANUAL SECTION 4.2.1
TW	TIRE WASH	DETAIL DRAWING 4.2.2 EPSC MANUAL SECTION 4.2.2

NOTES:

1. "DETAILS" REFERS TO CITY OF ALBANY EPSC MANUAL STANDARD DETAILS (Available online at www.cityofalbany.net)
2. "EPSC MANUAL" REFERS TO LATEST EDITION OF CITY OF ALBANY EROSION & PREVENTION SEDIMENT CONTROL MANUAL.
3. SYMBOLS SHOWN ON PLANS ARE NOT INTENDED TO BE TO SHOW BMP's TO SCALE – SEE DETAILS FOR DIMENSIONS.



1 C13 **EROSION CONTROL PERMANENT PLAN**

SCALE 1" = 40'

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REGISTERED PROFESSIONAL ENGINEER #51590PE
DIGITAL SIGNATURE
OREGON JAN. 19, 2014 JEFFREY T. SCHEFF RENEWAL 06/30/18

KEYED NOTES

1. PRESERVE EXISTING GRASS WHERE POSSIBLE. OVERSEED WITH PS AND HARROW SEED AFTER BROADCASTING.
2. PROVIDE PERMANENT SEEDING AT ALL DISTURBED SOIL LOCATIONS.
3. SEED STORM WATER TRENCH AND DETENTION FACILITY.
4. PERMANENT GRAVEL OR PAVING.
5. PERMANENT LANDSCAPING IN PLANTER AREAS PER LANDSCAPE PLAN.
6. SEDIMENT FENCE TO REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL FEATURES ARE ESTABLISHED.
7. SEED AREA DISTURBED BY UTILITY INSTALLATIONS AS REQUIRED.

No.	Revision/Issue	Date

Project Name and Address

EROSION CONTROL PERMANENT PLAN
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
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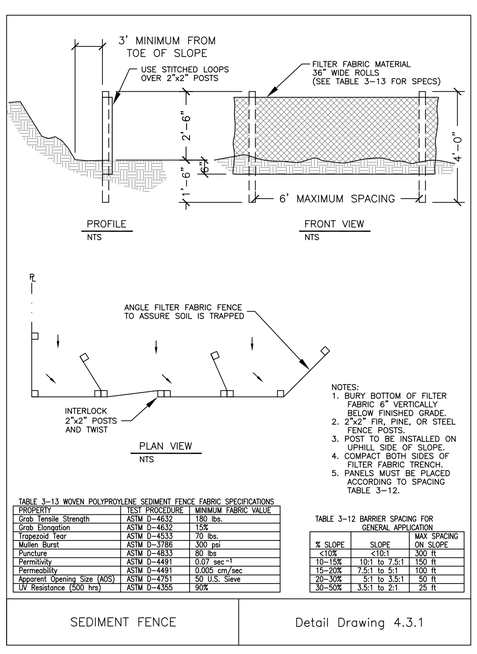
Sheet **C13**

C13- EROSION CONTROL PERMANENT PLAN.dwg
12/8/17

C14- EROSION CONTROL DETAILS.dwg

12/8/17



NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x2" FIR, PINE, OR STEEL FENCE POSTS.
3. POST TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING TABLE 3-12.

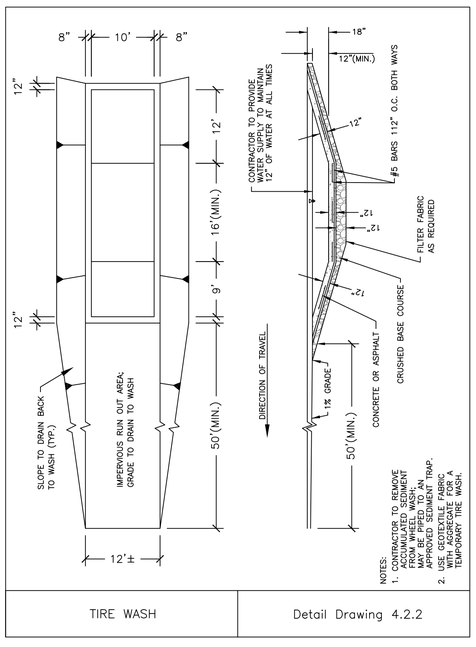
TABLE 3-13 WOVEN POLYPROYLENE SEDIMENT FENCE FABRIC SPECIFICATIONS

PROPERTY	TEST PROCEDURE	MINIMUM FABRIC VALUE
Grab Tensile Strength	ASTM D-4632	180 lbs.
Grab Elongation	ASTM D-4632	15%
Trapezoid Tear	ASTM D-4533	70 lbs.
Mullen Burst	ASTM D-3786	300 psi
Puncture	ASTM D-4833	80 lbs
Permitivity	ASTM D-4491	0.07 sec^{-1}
Permeability	ASTM D-4491	0.005 cm/sec
Apparent Opening Size (AOS)	ASTM D-4751	50 U.S. Sieve
UV Resistance (500 hrs)	ASTM D-4355	90%

TABLE 3-12 BARRIER SPACING FOR GENERAL APPLICATION

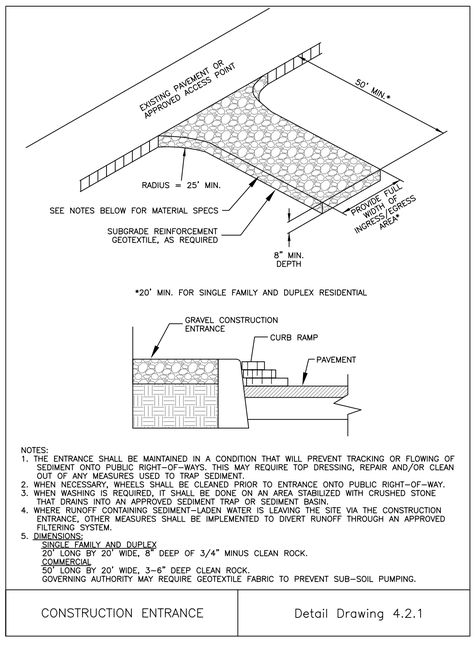
% SLOPE	SLOPE	MAX SPACING ON SLOPE
<10%	<10:1	300 ft
10-15%	10:1 to 7.5:1	150 ft
15-20%	7.5:1 to 5:1	100 ft
20-30%	5:1 to 3.5:1	50 ft
30-50%	3.5:1 to 2:1	25 ft

SEDIMENT FENCE | Detail Drawing 4.3.1



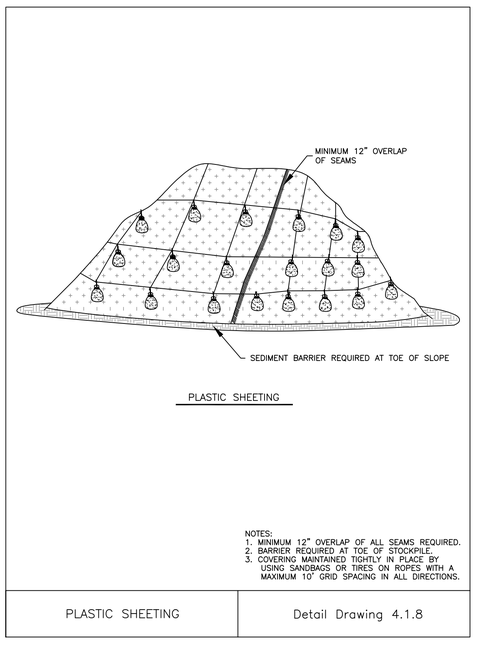
NOTES:
1. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT FROM WHEEL WASH-WATER FROM AN APPROVED SEDIMENT TRAP.
2. USE GEOTEXTILE FABRIC WHERE NEEDED FOR A TEMPORARY TIRE WASH.

TIRE WASH | Detail Drawing 4.2.2



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT-LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS:
   SINGLE FAMILY AND DUPLEX
   20' LONG BY 20' WIDE, 8" DEEP OF 3/4" MINUS CLEAN ROCK.
   COMMERCIAL
   50' LONG BY 20' WIDE, 3-6" DEEP CLEAN ROCK.
   GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

CONSTRUCTION ENTRANCE | Detail Drawing 4.2.1



PLASTIC SHEETING

NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. BARRIER REQUIRED AT TOE OF STOCKPILE.
3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

PLASTIC SHEETING | Detail Drawing 4.1.8

1 / C14 **EROSION CONTROL DETAILS**

SCALE 1" = NTS

PILLAR CONSULTING GROUP, INC.
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REGISTERED PROFESSIONAL ENGINEER #51590PE
DIGITAL SIGNATURE
OREGON JAN. 13, 2004 JEFFREY T. SCHEFF RENEWAL 06/30/18

KEYED NOTES

① –
② –
③ –

No.	Revision/Issue	Date

Project Name and Address

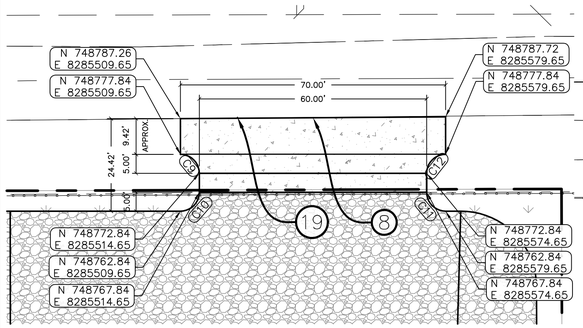
EROSION CONTROL DETAILS
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = NTS
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C14**

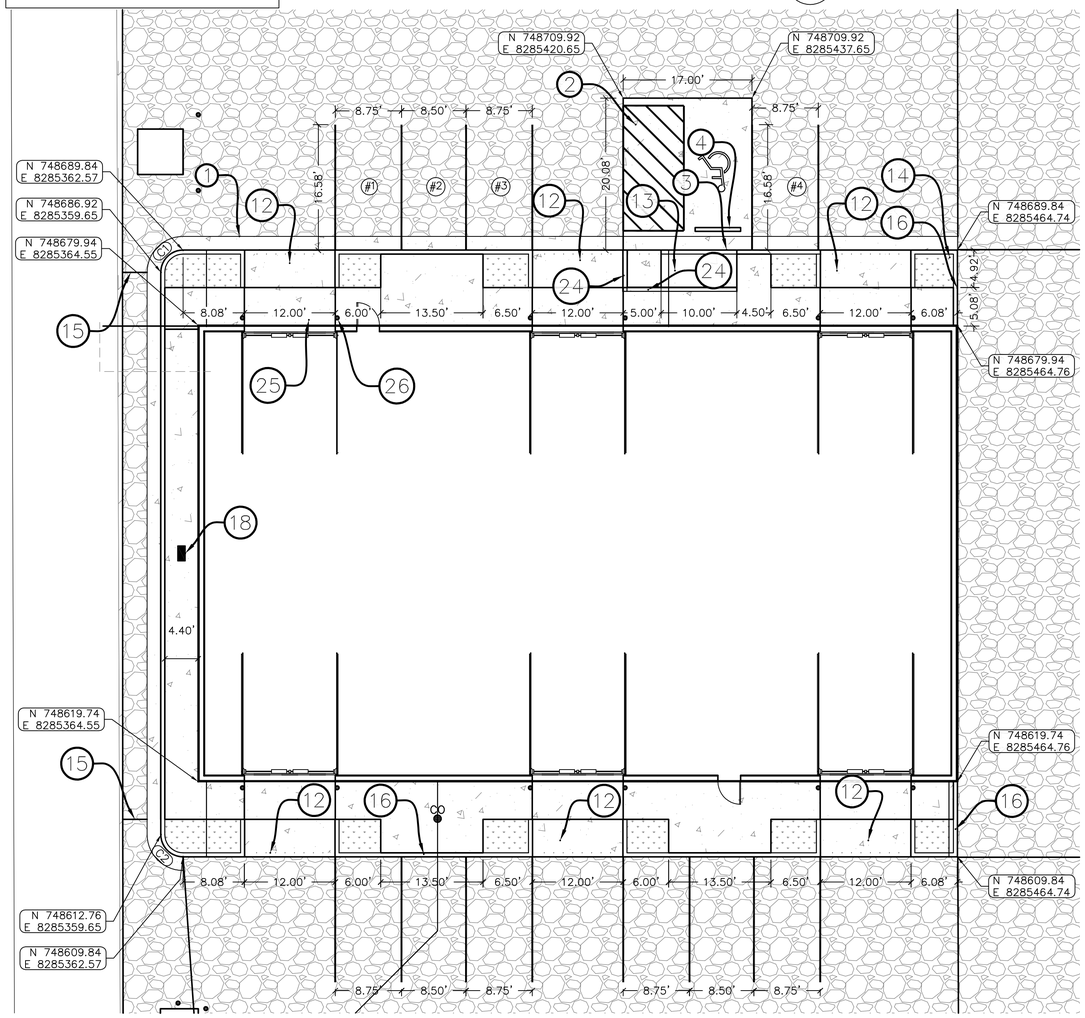
Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	4.58	2.92	90.00	N45° 00' 00"E	4.12
C2	4.58	2.92	90.00	N45° 00' 00"W	4.12
C3	31.42	20.00	90.00	S45° 00' 00"W	28.28
C4	31.70	20.00	90.79	N44° 35' 59"W	28.48
C5	8.64	5.50	90.00	S45° 11' 37"E	7.78
C6	7.43	9.50	44.81	N22° 35' 49"W	7.24
C7	74.35	25.50	167.05	S6° 28' 33"E	50.67
C8	80.11	25.50	180.00	N0° 00' 00"E	51.00
C9	7.85	5.00	90.00	N45° 00' 00"W	7.07
C10	7.85	5.00	90.00	S45° 00' 00"W	7.07
C11	7.85	5.00	90.00	N45° 00' 00"E	7.07
C12	7.85	5.00	90.00	N45° 00' 00"E	7.07

NOTE:
DIMENSIONS BASED ON TFOC, PT, BLDG GRIDLINE OR GRADE BREAK



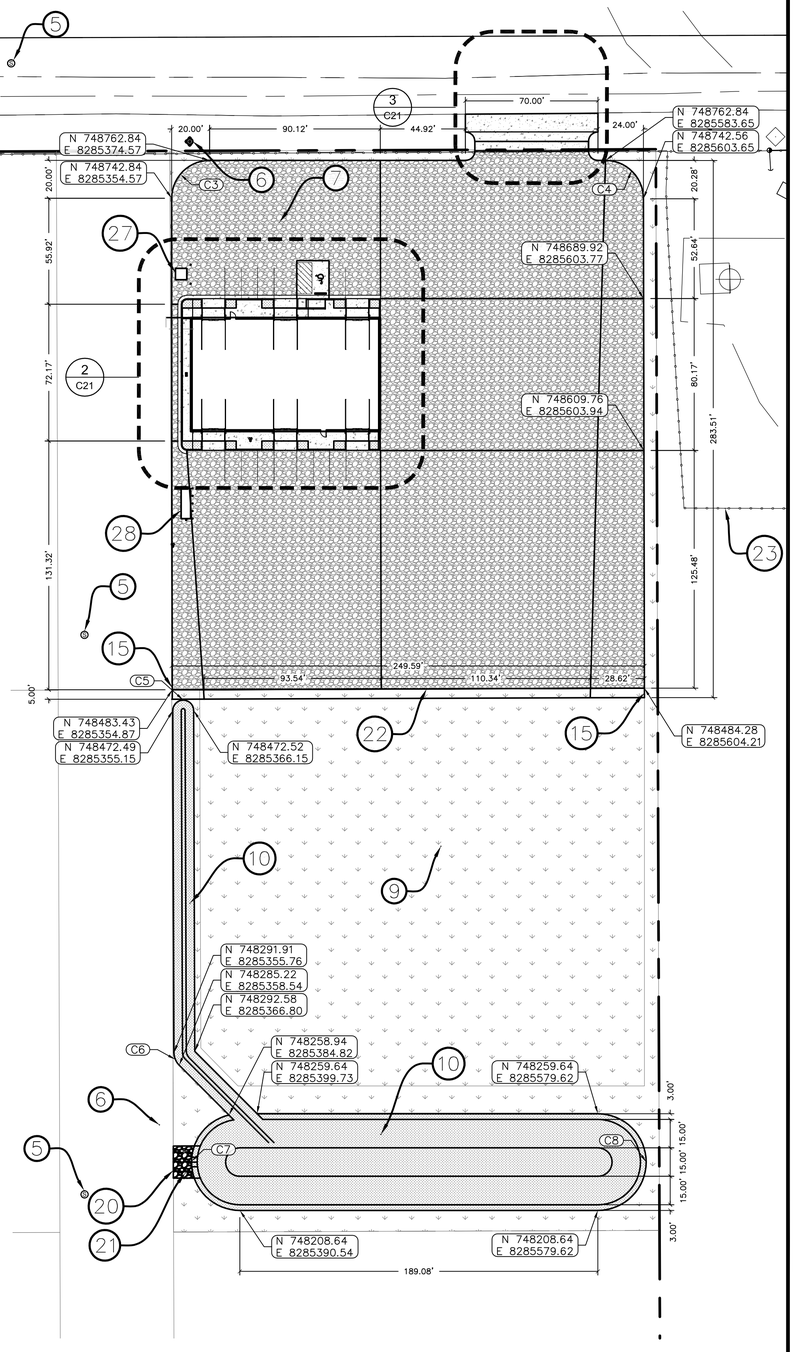
3/C21 **SITE IMPROVEMENT PLAN**

SCALE 1" = 20'



2/C21 **SITE IMPROVEMENT PLAN**

SCALE 1" = 10'



1/C21 **SITE IMPROVEMENT PLAN**

SCALE 1" = 40'

PILLAR CONSULTING GROUP, INC.
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JAN. 13, 2004
JEFFREY T. SCHERTZ
RENEWAL 06/30/18

KEYED NOTES

1. CURB & GUTTER PER 9/C53
2. ADA STRIPING PER 3/C52
3. ADA PARKING SIGN PER 3/C52
4. PARKING BUMPER PER 2/C52
5. SANITARY SEWER MANHOLE
6. EXISTING FIRE HYDRANT
7. NEW GRADED PARKING & ACCESS AREA
8. NEW DRIVEWAY
9. GRASS AREA FOR FUTURE EXPANSION
10. STORM WATER SWALE
11. NEW GRADED PARKING & ACCESS AREA
12. VEHICLE ACCESS PER 2/C51
13. ADA RAMP PER 3/C51
14. PLANTER PER LANDSCAPING PLAN
15. GRADE BREAK
16. STRAIGHT CURB PER 9/C53
17. BLDG. GRID INTERSECTION
18. VALVE BOX PER IRRIGATION DWG.
19. MATCH EXISTING PAVEMENT EDGE. PROVIDE SAW-CUT AT PAVEMENT EDGE.
20. STORM POND OVERFLOW
21. 3"-MINUS x 6" DEEP RIP RAP AT OVERFLOW.
22. TRANSITION FROM GRAVELED/PAVEMENT TO EXISTING GRASS.
23. EXISTING FENCE ON ADJACENT PROPERTY TO REMAIN.
24. CURB BETWEEN SIDEWALK AND ADA RAMP
25. THICKEN SIDEWALK IN FRONT OF OHD PER NOTE 2/C51. PROVIDE CONTROL JOINTS EACH SIDE OF DOOR.
26. BOLLARD TYPICAL AT EACH OHD PER 6/C52.
27. ELECTRICAL TRANSFORMER PAD
28. PROPANE TANK PAD

No.	Revision/Issue	Date

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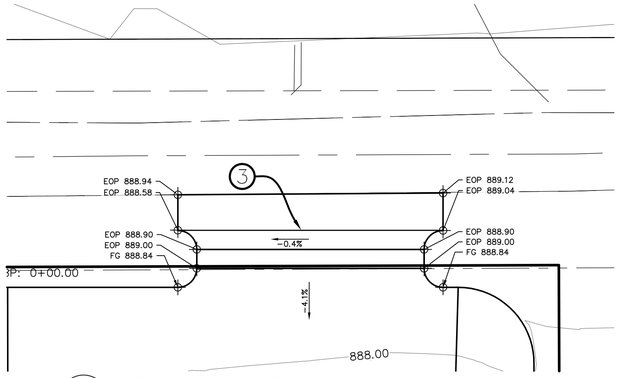
SITE IMPROVEMENT PLAN
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015	Sheet
Date 12/8/17	**C21**
Scale AS NOTED	

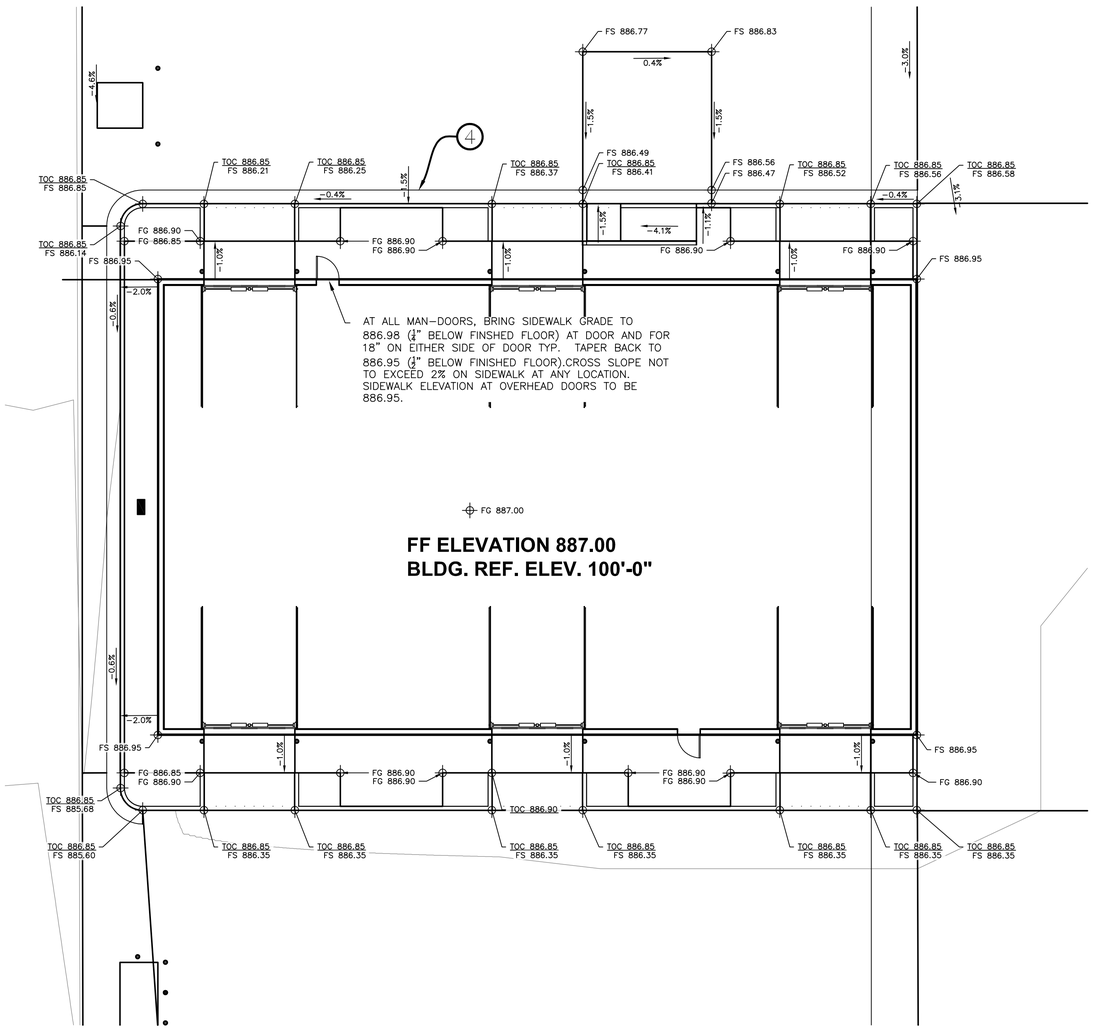
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

C21- SITE IMPROVEMENT PLAN.dwg
12/8/17



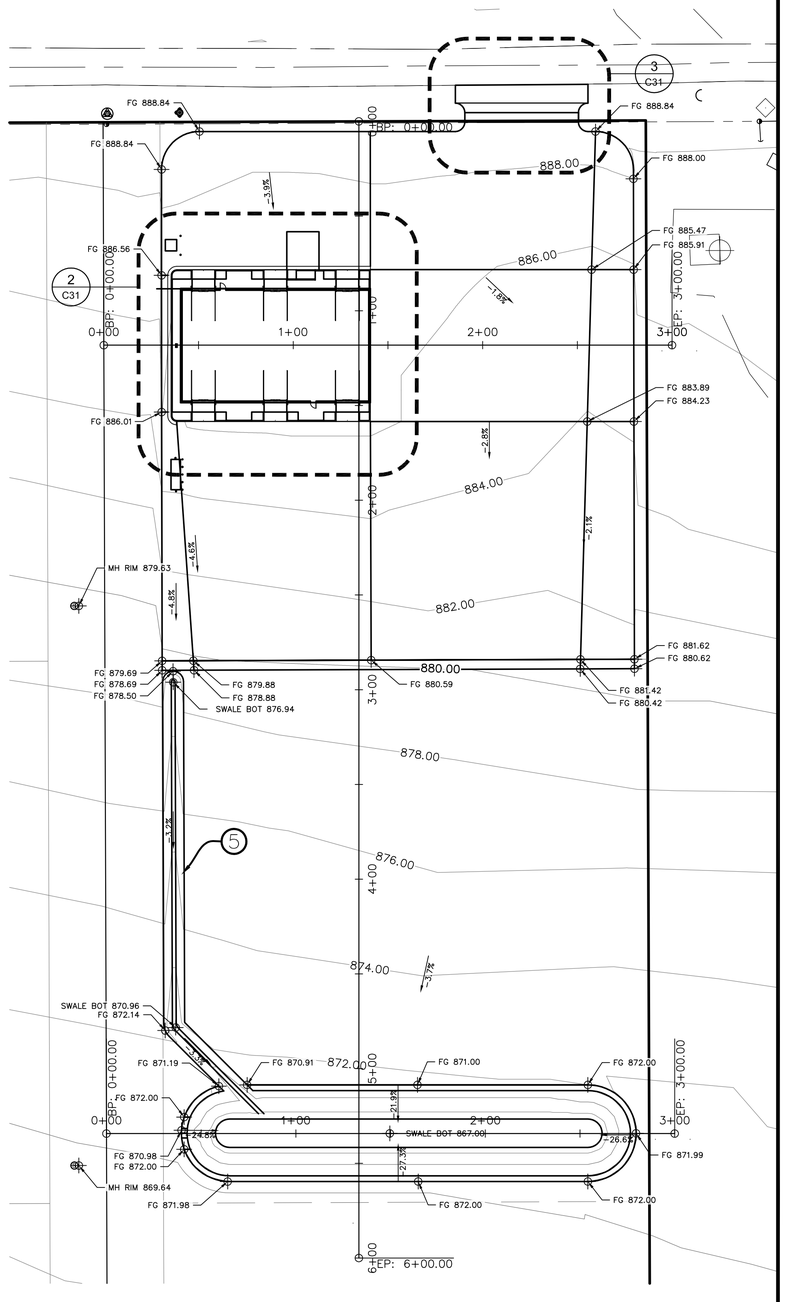
3 C31 **GRADING PLAN**

SCALE 1" = 20'



2 C31 **GRADING PLAN**

SCALE 1" = 10'



1 C31 **GRADING PLAN**

SCALE 1" = 40'

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OREGON
JAN. 13, 2004
JEFFREY T. SCHERTZ
RENEWAL 06/30/18

KEYED NOTES

1. EOP DENOTES EDGE OF PAVEMENT ELEVATION
2. FG DENOTES FINISH GRADE ELEVATION
3. SAW-CUT AND MATCH EXISTING EDGE OF ROAD WITH NEW CONCRETE DRIVEWAY.
4. GUTTER SLOPES @ 5 & TOWARD GUTTER LINE, TYP.
5. 3:1 SLOPE SIDES AT SWALE, TYP.

No.	Revision/Issue	Date

Project Name and Address

GRADING PLAN

-

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

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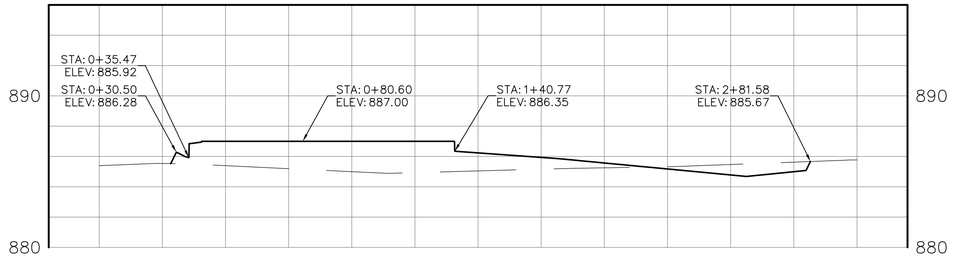
Date 12/8/17
Scale AS NOTED
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C31**

C31- GRADING PLAN.dwg
12/8/17

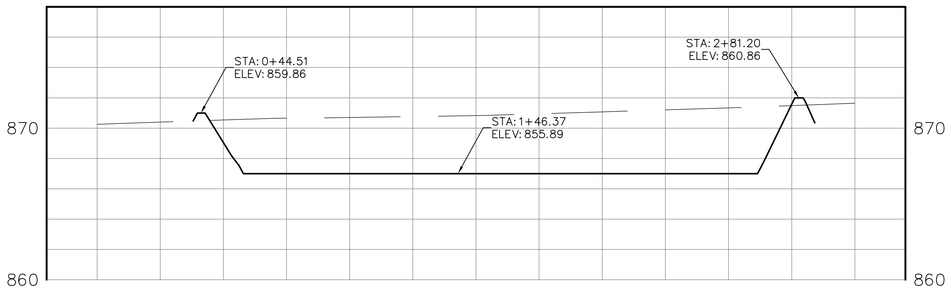
E–W BLDG. PROFILE



3 / C32 E-W BLDG. PROFILE

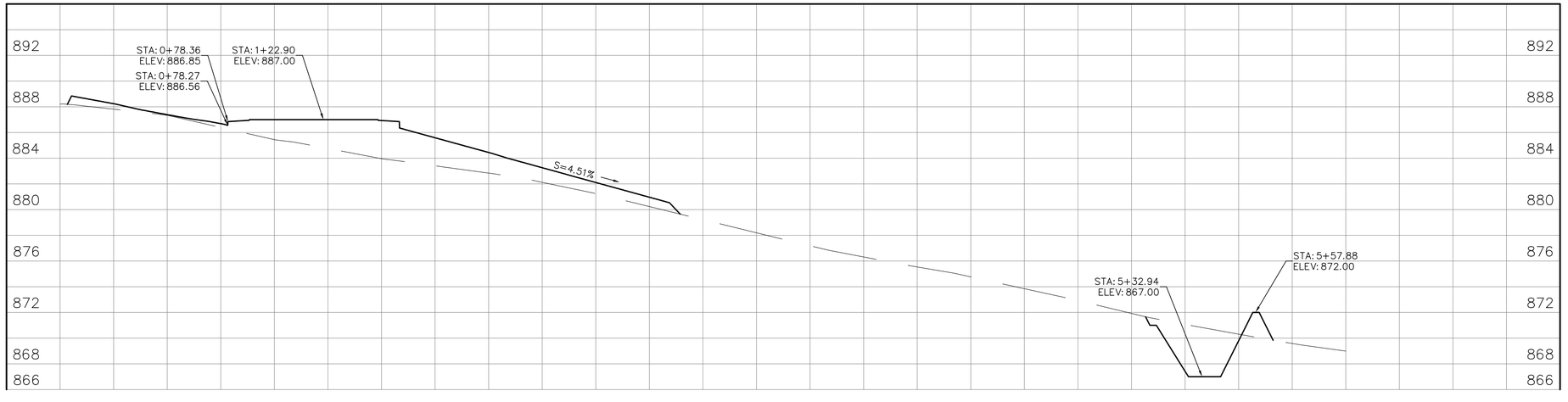
HORIZ. SCALE 1" = 30'
VERT. SCALE 1" = 5'

E–W SWALE PROFILE



2 / C32 E-W SWALE PROFILE

HORIZ. SCALE 1" = 30'
VERT. SCALE 1" = 5'



1 / C32 N-S ALIGNMENT PROFILE

HORIZ. SCALE 1" = 30'
VERT. SCALE 1" = 5'

C32– PROFILES.dwg

12/8/17

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RENEWAL 06/30/18

KEYED NOTES

1.
2.
3.

No.	Revision/Issue	Date

Project Name and Address
SITE PROFILES
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PORT OF ARLINGTON OREGON
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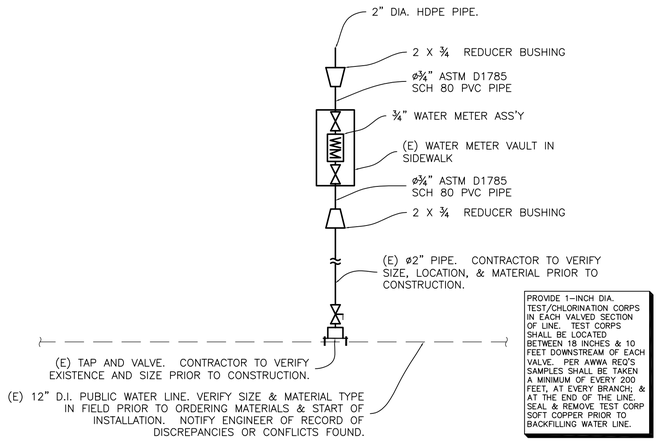
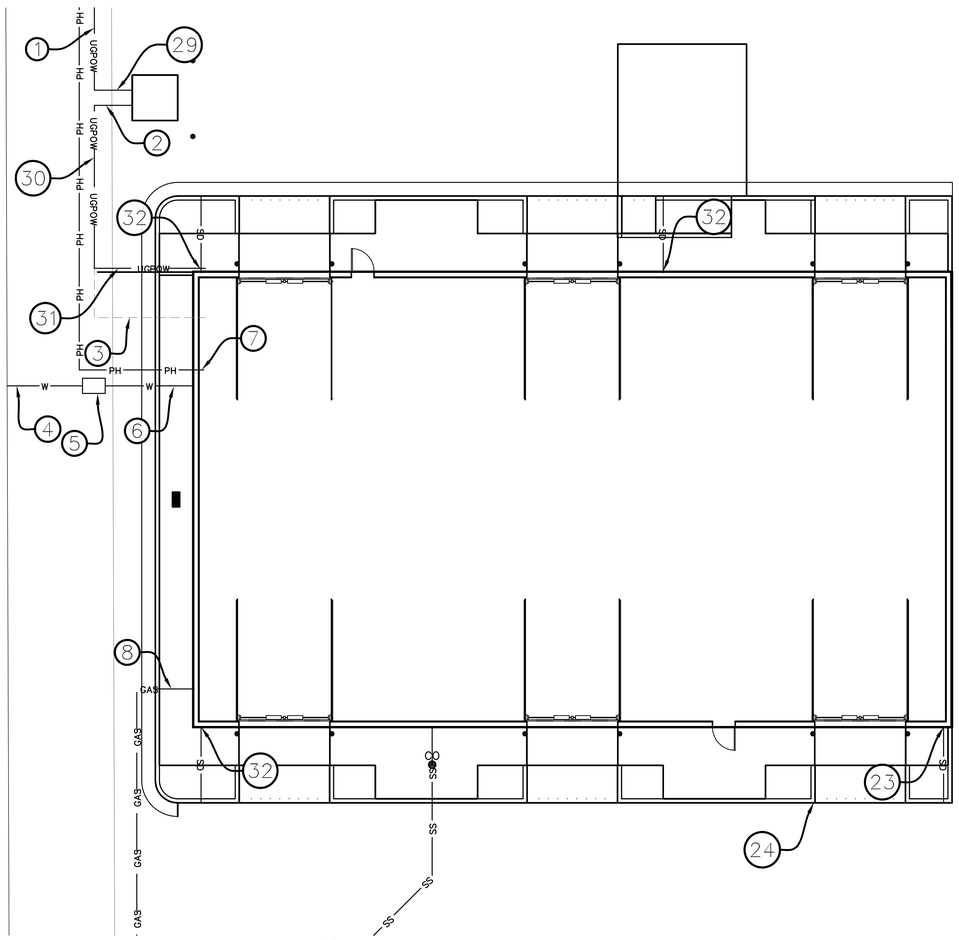
Sheet
C32



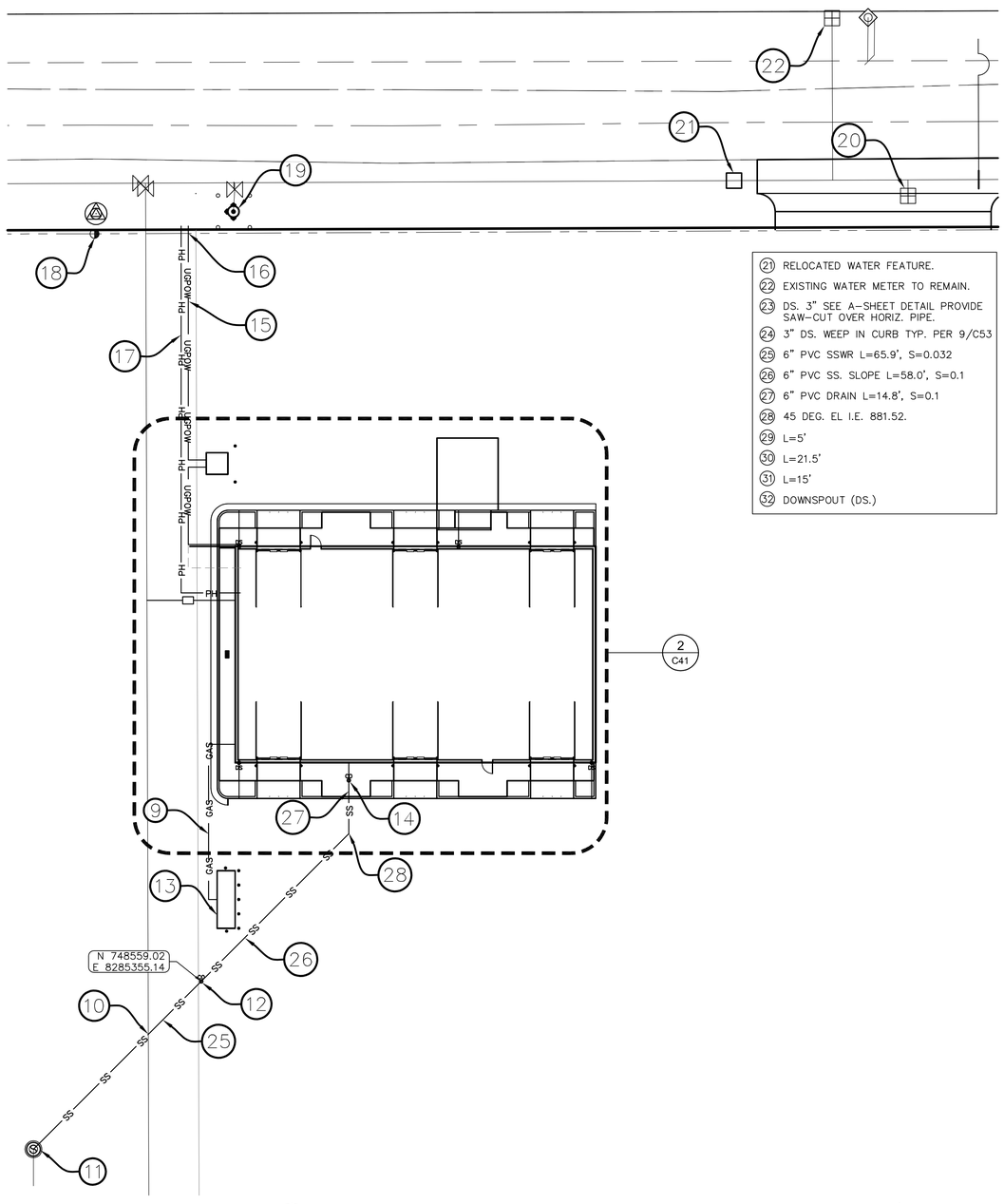
3 C41 **WATER SERVICE PIPING SCHEMATIC**

SCALE 1" = NTS



2 C41 **UTILITY PLAN**

SCALE 1" = 10'



21	RELOCATED WATER FEATURE.
22	EXISTING WATER METER TO REMAIN.
23	DS. 3" SEE A-SHEET DETAIL PROVIDE SAW-CUT OVER HORIZ. PIPE.
24	3" DS. WEEP IN CURB TYP. PER 9/C53
25	6" PVC SSWR L=65.9', S=0.032
26	6" PVC SS. SLOPE L=58.0', S=0.1
27	6" PVC DRAIN L=14.8', S=0.1
28	45 DEG. EL I.E. 881.52.
29	L=5'
30	L=21.5'
31	L=15'
32	DOWNSPOUT (DS.)

1 C41 **UTILITY PLAN**

SCALE 1" = 20'

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED PROFESSIONAL ENGINEER #51590PE
DIGITAL SIGNATURE
OREGON JAN. 19, 2014 JEFFREY T. SCHEFF RENEWAL 06/30/18

KEYED NOTES

1. 4" PVC POWER CONDUIT. L=65' APPROX. PROVIDE PULL STRING & INSTALL PER PACIFIC POWER.
2. 4" PVC CONDUIT TO BLDG. FROM TRANSFORMER VAULT. L=5
3. ALTERNATE POWER PATH. COORDINATE WITH ELECTRICAL.
4. NEW 1" WATER SERVICE. CONNECT TO EXISTING 6" PUBLIC WATER LINE PER DETAIL. L=10'
5. NEW WATER METER IN APPROVED BOX PER CITY OF ARLINGTON.
6. 1" PE WATER SERVICE TO BLDG. L=12' BURY MIN. 30"
7. SEE PLUMBING PLAN FOR CONTINUATION.
8. GAS LINE L=7.5'. COORDINATE WITH PLUMBING.
9. PROPANE PIPING PER PLUMBING. L=48' APPROX.
10. VERIFY NEW SS PASSES UNDER EXISTING 6" WATER. SS I.E. 875.06 APPROX. APPROX. GRADE 881.11. EXISTING WATER LINE I.E. ESTIMATED 877.00.
11. EXISTING MANHOLE MH33 INSTALL DROP PER XXXX. VERIFY ALL ELEVATIONS. RIM 879.60, I.E. IN 873.63(NEW NW), I.E. OUT 873.53(EXISTING S)
12. CLEAN OUT NEAR FUTURE PROPERTY LINE PER 11/C51, I.E. 875.72.
13. NEW PROPANE TANK. N.I.C. SLAB & TRENCHING IN CONTRACT.
14. SS I.E. AT CLEAN OUT 883.00. 5' FROM FACE OF BLDG. PER 11/C51. COORDINATE WITH PLUMBING.
15. 4" PVC CONDUIT INSTALLED PER PACIFIC POWER STD.
16. COORDINATE POWER DROP W/ PACIFIC POWER.
17. (3) 2" PVC DATA CONDUITS MIN. 12" CLEAR OF POWER CONDUIT. COORDINATE CONNECTION WITH FIBER AND PHONE PROVIDER.
18. EXISTING POWER POLE.
19. EXISTING FIRE HYDRANT.
20. RELOCATE EXISTING WATER SERVICE FEATURES TO THE WEST

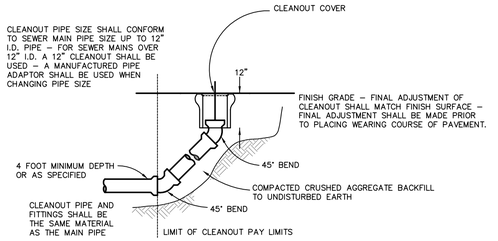
No.	Revision/Issue	Date

Project Name and Address
UTILITY PLAN
-
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale AS NOTED
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

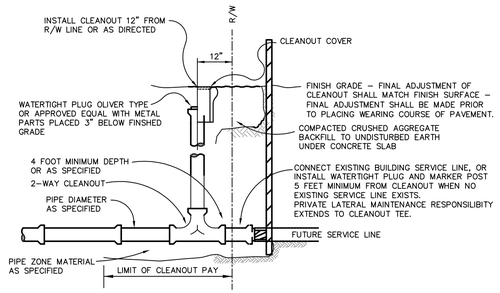
Sheet **C41**

C41- UTILITY PLAN.dwg
12/8/17



STANDARD CLEANOUT DETAIL

(FOR END OF SANITARY MAIN WITH FOUR OR LESS SERVICE CONNECTIONS)



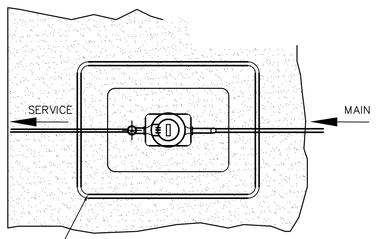
STANDARD SERVICE LATERAL CLEANOUT DETAIL

NOTES:

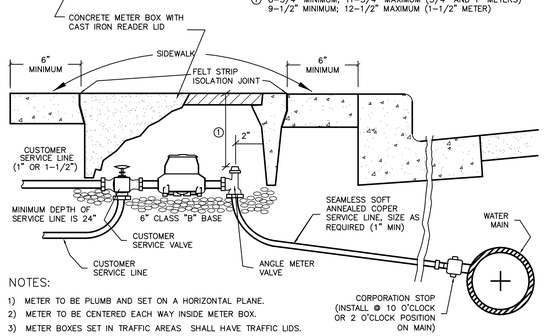
1) SEE DTL 206A, SHT C5.2 FOR STANDARD MAIN PIPE CONNECTION DETAILS.
2) MARKER POSTS AND BLOCKING FOR END OF LINE SHALL BE A PRESSURE TREATED 2x4. POST SHALL EXTEND 12" ABOVE FINISH GRADE AND PAINTED WHITE.
3) CLEANOUTS OUTSIDE OF PAVED AREA SHALL BE IDENTIFIED WITH FIBERGLASS MARKER POST.
4) GLUE-ON OR SOLVENT WELDED PLUGS SHALL NOT BE PERMITTED.
5) MIN. DEPTH AT RIGHT-OF-WAY LINE SHALL BE 4 FT. OR AS SPECIFIED.

11 C51 STANDARD CLEANOUT

SCALE 1" = NTS



① 8-3/4" MINIMUM; 11-3/4" MAXIMUM (3/4" AND 1" METERS)
9-1/2" MINIMUM; 12-1/2" MAXIMUM (1-1/2" METER)

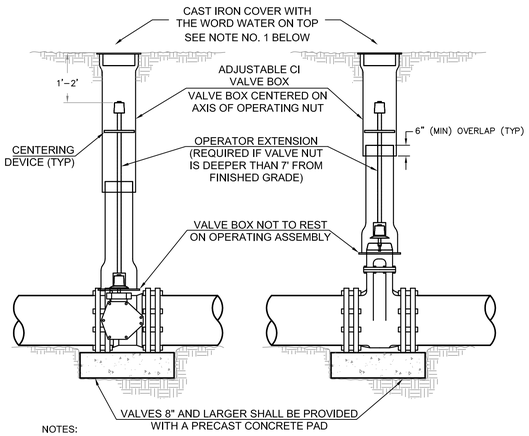


NOTES:

1) METER TO BE PLUMB AND SET ON A HORIZONTAL PLANE.
2) METER TO BE CENTERED EACH WAY INSIDE METER BOX.
3) METER BOXES SET IN TRAFFIC AREAS SHALL HAVE TRAFFIC LIDS.
4) METER BOXES SET OUTSIDE OF PAVED AREAS SHALL BE PLACED IN A 5' X 5' CONCRETE PAD.
5) WHEN PLACED IN SIDEWALK, MAINTAIN 6" MINIMUM CONCRETE AROUND THE METER BOX PERIMETER.

10 C51 3/4", 1", 1-1/2" WATER METER SETTING

SCALE 1" = NTS

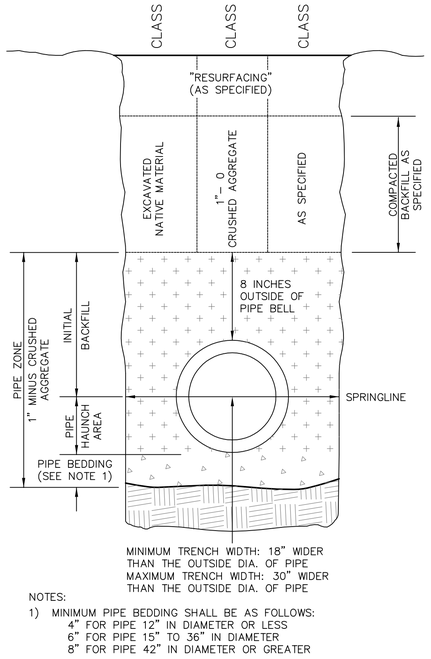


NOTES:

1. PICK HOLES IN LID SHALL HAVE A (MIN) 1/4" LIP FOR LIFTING.
2. VALVE BOX SHALL BE RICH "MEDFORD" 931 OR TYLER/UNION 7016-7026.

9 C51 VALVE & BOX SETTING

SCALE 1" = NTS



MINIMUM TRENCH WIDTH: 18" WIDER THAN THE OUTSIDE DIA. OF PIPE
MAXIMUM TRENCH WIDTH: 30" WIDER THAN THE OUTSIDE DIA. OF PIPE

NOTES:

1) MINIMUM PIPE BEDDING SHALL BE AS FOLLOWS:
4" FOR PIPE 12" IN DIAMETER OR LESS
6" FOR PIPE 15" TO 36" IN DIAMETER
8" FOR PIPE 42" IN DIAMETER OR GREATER

8 C51 TRENCH BACKFILL & PIPE ZONE

SCALE 1" = NTS

5 C51 RESERVED

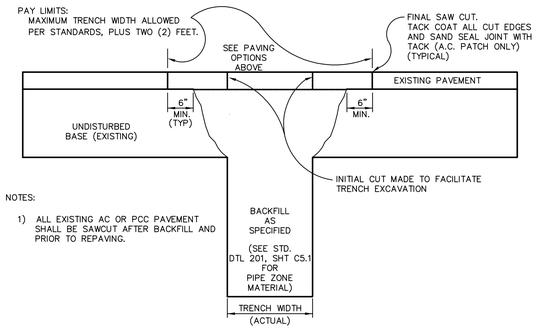
SCALE 1" = NTS

ASPHALTIC CONCRETE PAVEMENT TO BE REPLACED SHALL UTILIZE THE FOLLOWING SYSTEM –

CRUSHED AGGREGATE BASE MATCHING EXISTING BASE, EIGHT INCHES (8") MINIMUM AND A MINIMUM OF FOUR INCHES (4") OF CLASS "C" ASPHALTIC CONCRETE PAVEMENT PLACED IN 2-INCH MAX. LIFTS ROLLER COMPACTED, PRECEDED BY ANY ADDITIONAL LIFTS NECESSARY TO MATCH EXISTING PAVEMENT THICKNESS GREATER THAN 4-INCHES.

P.C.C. PAVEMENT TO BE REPLACED SHALL BE REPLACED IN FULL PANELS AND UTILIZE THE FOLLOWING SYSTEM –

FULL PANELS WITH A MINIMUM OF EIGHT INCHES (8") OF P.C.C. PAVEMENT OR TO THE THICKNESS OF THE REMOVED PAVEMENT – WHICHEVER IS GREATER – PLACED ON A MINIMUM TWO INCHES (2") CRUSHED AGGREGATE LEVELING COURSE.



NOTES:

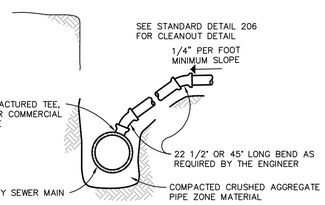
1) ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT AFTER BACKFILL AND PRIOR TO REPAVING.

7 C51 SAWCUT & PATCH DETAIL

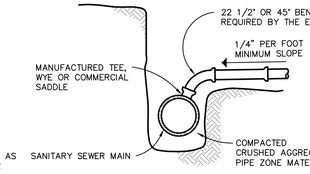
SCALE 1" = NTS

NOTES:

1) MINIMUM DEPTH AT EASEMENT LINE SHALL BE 4 FEET OR AS SPECIFIED.
2) MARKER POSTS AND BLOCKING SHALL BE A PRESSURE TREATED 2x4 – POST SHALL EXTEND 12" ABOVE FINISH GRADE AND EXPOSED AREA SHALL BE PAINTED WHITE
3) GLUE ON OR SOLVENT WELDED PLUGS SHALL NOT BE PERMITTED

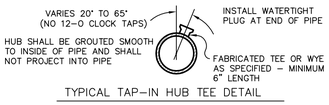


DEEP TRENCH SERVICE CONNECTION

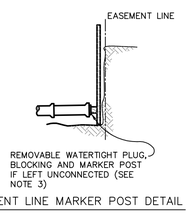


SHALLOW TRENCH SERVICE CONNECTION

NOTE: WHERE TEE OR WYE IS LOCATED IN STREET RIGHT-OF-WAY EXTEND SERVICE CONNECTION TO RIGHT-OF-WAY LINE AND INSTALL CLEANOUT AS PER STANDARD DTL 206, SHT C5.2.



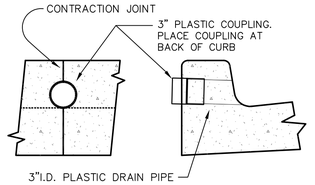
TYPICAL TAP-IN HUB TEE DETAIL



EASEMENT LINE MARKER POST DETAIL

6 C51 STANDARD PIPING

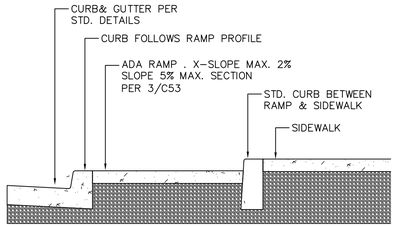
SCALE 1" = NTS



WEEP HOLE THROUGH CURB

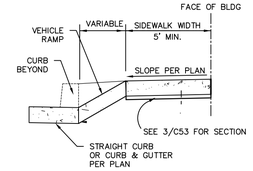
4 C51 WEEP HOLE DETAIL

SCALE 1" = NTS



3 C51 TYPICAL CROSS SECTION AT ADA RAMP

SCALE 1" = NTS

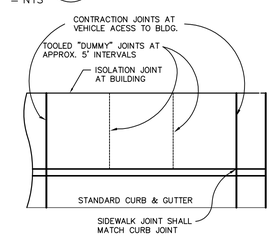


NOTES:

1. STANDARD SIDEWALK CROSS SLOPE SHALL BE 1/4" PER FOOT. WHEN THE LOT IS BELOW THE TOP OF THE CURB AND SLOPES AWAY FROM THE CURB, A MINUS 1/4" PER FOOT SLOPE MAY BE REQUIRED, AS DIRECTED.
2. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE NOMINAL 4" MIN. ALL OTHER DRIVEWAY SECTIONS SHALL BE NOMINAL 8" MIN. ALL CONCRETE SHALL BE PLACED PER SIDEWALK SECTION X/C52.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 15 FEET BY CUTTING A MIN. ONE THIRD OF THE DEPTH OF THE CONCRETE. "DUMMY" JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 5 FEET.

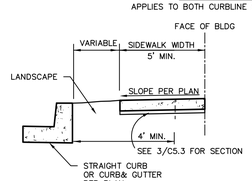
2 C51 TYPICAL CROSS SECTION AT VEHICLE ACCESS

SCALE 1" = NTS



TYPICAL PLAN VIEW

APPLIES TO BOTH CURBLINE & PROPERTY LINE SIDEWALKS



TYPICAL CROSS SECTION WITH PLANTER STRIP

NOTES:

1. STANDARD SIDEWALK CROSS SLOPE SHALL BE 1/4" PER FOOT. WHEN THE LOT IS BELOW THE TOP OF THE CURB AND SLOPES AWAY FROM THE CURB, A MINUS 1/4" PER FOOT SLOPE MAY BE REQUIRED, AS DIRECTED.
2. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE NOMINAL 4" MIN. - ALL OTHER DRIVEWAY SECTIONS SHALL BE NOMINAL 8" MIN. ALL CONCRETE SHALL BE PLACED PER SIDEWALK SECTION 3/C5.3.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 15 FEET BY CUTTING A MIN. ONE THIRD OF THE DEPTH OF THE CONCRETE. "DUMMY" JOINTS SHALL BE INSTALLED AT APPROX. INTERVALS OF 5 FEET.

1 C51 STANDARD SIDEWALK DETAIL

SCALE 1" = NTS

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHMITT
RENEWAL 06/30/18

KEYED NOTES

① –
② –
③ –

No.	Revision/Issue	Date

Project Name and Address

CIVIL DETAILS

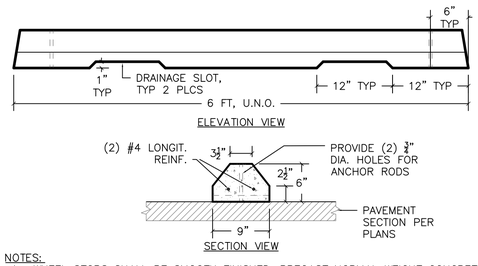
-

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015	Sheet C51
Date 12/8/17	
Scale 1" = NTS	

0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

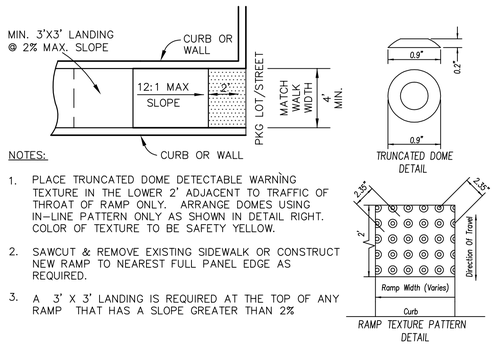
C51 – CIVIL DETAILS.dwg
12/8/17



NOTES:
1. WHEEL STOPS SHALL BE SMOOTH FINISHED, PRECAST NORMAL WEIGHT CONCRETE WITH INTEGRAL DRAINAGE SLOTS FROM APPROVED MANUFACTURER.
2. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI, U.N.O.
3. WHEEL STOPS SHALL BE REINFORCED W/ ASTM A615 Gr. 60 REBAR AS INDIC.
4. ANCHOR WHEEL STOP W/ (2) ¾" DIA. STEEL ANCHOR RODS, MIN. 18" LONG
5. PAINT WHEEL STOPS PER DRAWING OR SPECIFICATION.

10 C52 PRECAST WHEEL STOPS

SCALE 1" = NTS

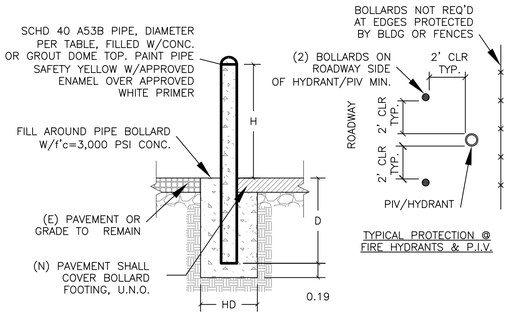


NOTES:
1. PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE IN THE LOWER 2' ADJACENT TO TRAFFIC OF THROAT OF RAMP ONLY. ARRANGE DOMES USING IN-LINE PATTERN ONLY AS SHOWN IN DETAIL RIGHT. COLOR OF TEXTURE TO BE SAFETY YELLOW.
2. SAWCUT & REMOVE EXISTING SIDEWALK OR CONSTRUCT NEW RAMP TO NEAREST FULL PANEL EDGE AS REQUIRED.
3. A 3' X 3' LANDING IS REQUIRED AT THE TOP OF ANY RAMP THAT HAS A SLOPE GREATER THAN 2%

8 C52 INLINE SIDEWALK RAMP

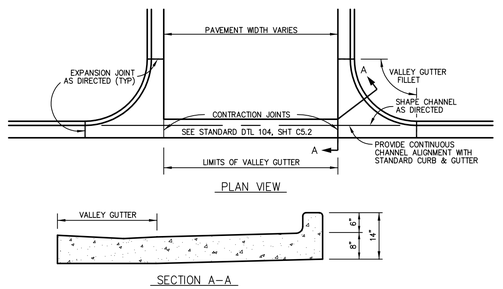
SCALE 1" = NTS

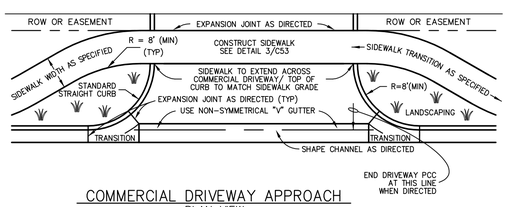
USE	DIAMETER PD	HEIGHT H	DEPTH D	HOLE DIAMETER HD
PROPANE TANK	4"	42"	36"	18"
FIRE HYDRANT	6"	42"	36"	18"
DOOR	6"	42"	21"	18"



6 C52 BOLLARD PROTECTION

SCALE 1" = NTS

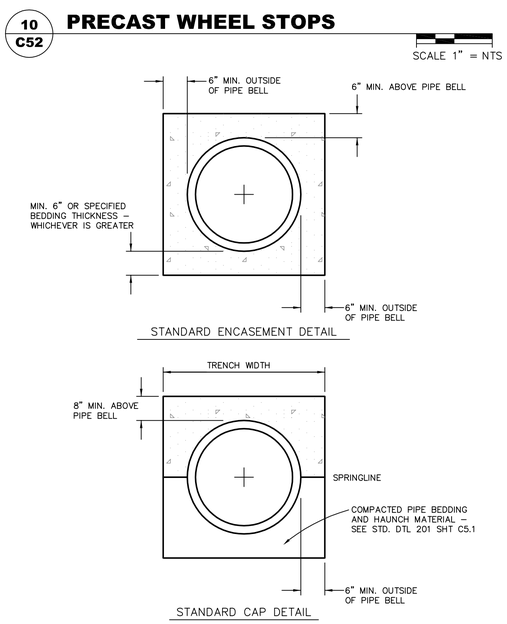




NOTES:
1. CONSTRUCT CURBING MONOLITHIC WITH FILLET AND INSTALL SIDEWALK RAMPS AS DESIGNATED ON THE PLANS.
2. PCC SHALL ATTAIN A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL SIDEWALK CURVES WILL HAVE 8' (MIN) RADI

7 C52 STD COMMERCIAL DRIVEWAY APPROACH

SCALE 1" = NTS



NOTES: 1) THE CONCRETE SHALL ATTAIN A 28 DAY MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 P.S.I.

2) CAP ALL LOWER LINES AT UTILITY CROSSINGS WHEN LESS THAN 12" OF CLEARANCE EXISTS.

3) INSTALL ISOLATION MATERIAL AROUND PIPE BEFORE PLACING CONCRETE.

9 C52 CONCRETE CAP & ENCLOSURE

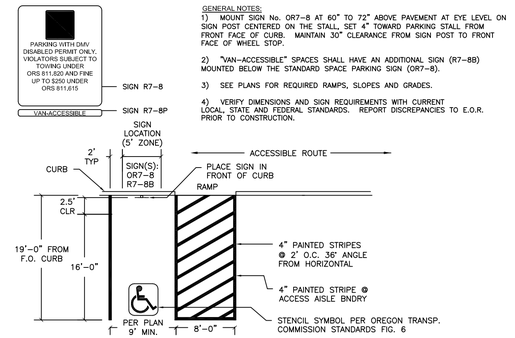
SCALE 1" = NTS

5 C52 RESERVED

SCALE 1" = NTS

4 C52 RESERVED

SCALE 1" = NTS



GENERAL NOTES:
1) MOUNT SIGN No. OR7-8 AT 60" TO 72" ABOVE PAVEMENT AT EYE LEVEL ON SIGN POST CENTERED ON THE STALL, SET 4" TOWARD PARKING STALL FROM FRONT FACE OF CURB. MAINTAIN 30" CLEARANCE FROM SIGN POST TO FRONT FACE OF WHEEL STOP.

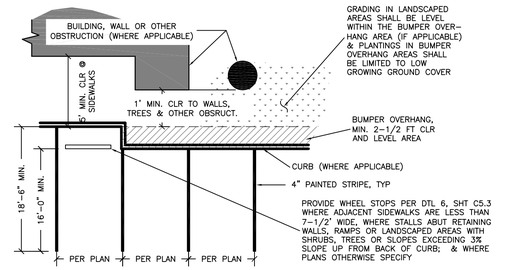
2) "VAN-ACCESSIBLE" SPACES SHALL HAVE AN ADDITIONAL SIGN (R7-8B) MOUNTED BELOW THE STANDARD SPACE PARKING SIGN (OR7-8).

3) SEE PLANS FOR REQUIRED RAMPS, SLOPES AND GRADES.

4) VERIFY DIMENSIONS AND SIGN REQUIREMENTS WITH CURRENT LOCAL, STATE AND FEDERAL STANDARDS. REPORT DISCREPANCIES TO E.O.R. PRIOR TO CONSTRUCTION.

3 C52 STANDARD ADA PARKING STALL

SCALE 1" = NTS



2 C52 STANDARD PARKING STALL DETAIL

SCALE 1" = NTS

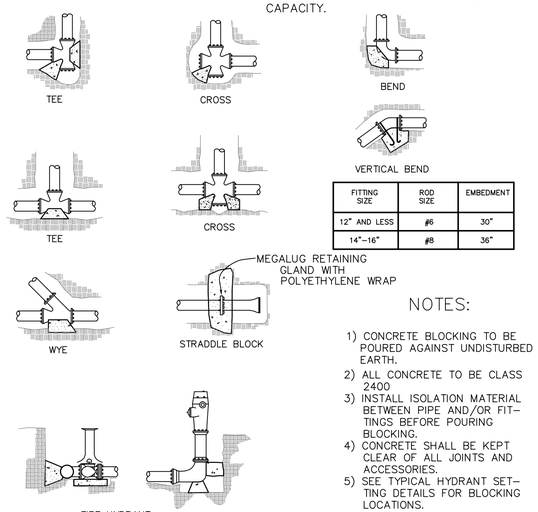
(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQ. FT.

FITTING SIZE	TEE, WYE AND HYDRANT	STRADDLE BLOCK	90° BEND PLUGGED CROSS; TEE PLUGGED ON RUN	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	1.6	1.8	1.0		
6	2.8	3.7	4.0	2.2	1.1	
8	5.0	6.5	7.1	3.8	2.0	1.0
10	7.9	10.2	11.1	6.0	3.1	1.5
12	11.3	14.7	16.0	8.7	4.4	2.2
16	20.1	26.1	28.4	15.4	7.8	3.9
20	31.1	40.8	44.4	24.0	12.3	6.2
24	45.2	58.8	64.0	34.6	17.7	8.9

VOLUME OF THRUST BLOCK IN CU. YDS. (VERTICAL)

FITTING SIZE	BEND ANGLE 45°	22.5°	11.25°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.



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

NOTES:
1) CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2) ALL CONCRETE TO BE CLASS 2400
3) INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING BLOCKING.
4) CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
5) SEE TYPICAL HYDRANT SETTING DETAILS FOR BLOCKING LOCATIONS.

1 C52 STANDARD BLOCKING

SCALE 1" = NTS

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED PROFESSIONAL ENGINEER #51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHOTT
RENEWAL 06/30/18

KEYED NOTES

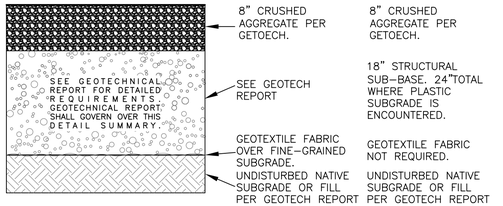
① –
② –
③ –

No.	Revision/Issue	Date

Project Name and Address
CIVIL DETAILS
-
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/17
Scale 1" = NTS
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE
Sheet **C52**

C52- CIVIL DETAILS.dwg
12/8/17

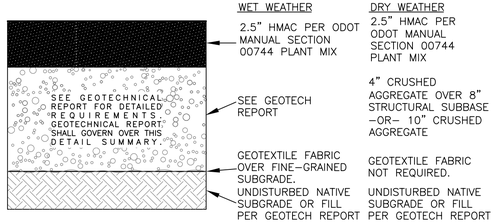


	WET WEATHER	DRY WEATHER
	8" CRUSHED AGGREGATE PER GETOECH.	8" CRUSHED AGGREGATE PER GETOECH.
	SEE GEOTECH REPORT	18" STRUCTURAL SUB-BASE. 24"TOTAL WHERE PLASTIC SUBGRADE IS ENCOUNTERED.
	GEOTEXTILE FABRIC OVER FINE-GRAINED SUBGRADE.	GEOTEXTILE FABRIC NOT REQUIRED.
	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT

THE BASE AGGREGATE AND CONCRETE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BASE AGGREGATE IS AS DESCRIBED IN GEOTECHNICAL REPORT, COMPACT SUBGRADE AND BASE AGGREGATE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI, W/ 650 PSI MIN. BEAM FLEXURAL STRENGTH, W/ MIN. 5-7% ENTRAINED AIR CONTENT. SUBMIT MIX DESIGN TO E.O.R. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS. GEOTECHNICAL ENGINEER TO REVIEW SUBGRADE & OBSERVE COMPACTION OF GRANULAR FILLS.

8 / C53 GRAVEL PVMT. SECTION HEAVY

SCALE 1" = NTS

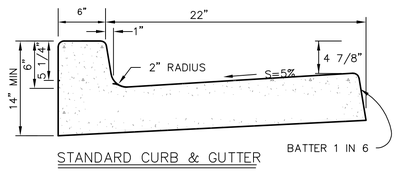


	WET WEATHER	DRY WEATHER
	2.5" HMAC PER ODOT MANUAL SECTION 00744 PLANT MIX	2.5" HMAC PER ODOT MANUAL SECTION 00744 PLANT MIX
	SEE GEOTECH REPORT	4" CRUSHED AGGREGATE OVER 8" STRUCTURAL SUBBASE -OR- 10" CRUSHED AGGREGATE
	GEOTEXTILE FABRIC OVER FINE-GRAINED SUBGRADE.	GEOTEXTILE FABRIC NOT REQUIRED.
	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT

THE BASE AGGREGATE AND CONCRETE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BASE AGGREGATE IS AS DESCRIBED IN GEOTECHNICAL REPORT, COMPACT SUBGRADE AND BASE AGGREGATE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI, W/ 650 PSI MIN. BEAM FLEXURAL STRENGTH, W/ MIN. 5-7% ENTRAINED AIR CONTENT. SUBMIT MIX DESIGN TO E.O.R. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS. GEOTECHNICAL ENGINEER TO REVIEW SUBGRADE & OBSERVE COMPACTION OF GRANULAR FILLS.

7 / C53 FLEXIBLE PAVEMENT SECTION

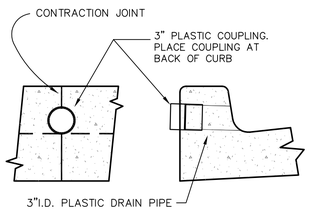
SCALE 1" = NTS



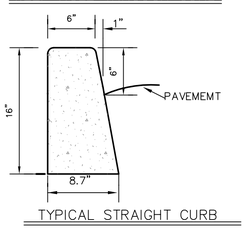
STANDARD CURB & GUTTER

NOTES:

1. ALL RADII SHALL BE 3/4" EXCEPT AS OTHERWISE NOTED.
2. EXPANSION JOINTS SHALL BE PLACED AT ALL CONSTRUCTION JOINTS AS DIRECTED.
3. CONTRACTION JOINTS SHALL BE PLACED AT APPROX. 15' INTERVALS AND SHALL EXTEND A MIN. OF 50% THROUGH THE CURB OR CURB AND GUTTER.
4. THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE AS SPECIFIED.
5. WEEP HOLES SHALL BE PLACED AT CONTRACTION JOINTS.
6. WEEP HOLES INSTALLED IN EXIST. CURB SHALL BE CORED ONLY, ON MIN. 12" CENTERS.
7. REFER TO STANDARD WHEELCHAIR RAMP DETAILS FOR INTERSECTION CURB RADII DETAILS.
8. THE USE OF EXTRUDED BONDED CURBS SHALL ONLY BE BY SPECIFIC APPROVAL OF THE ENGINEER.
9. EXTEND WEEPHOLES TO BACK OF WALK WHEN SIDEWALKS ARE CONSTRUCTED AND INSTALL COUPLINGS AT BACK OF WALK.
10. FOR CONCRETE STREETS, MATCH STREET AND CURB JOINTS.



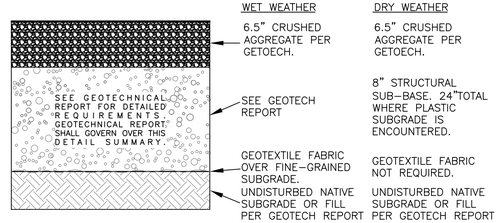
WEEP HOLE THROUGH CURB



TYPICAL STRAIGHT CURB

9 / C53 CURB CONSTRUCTION STANDARD DETAIL

SCALE 1" = NTS

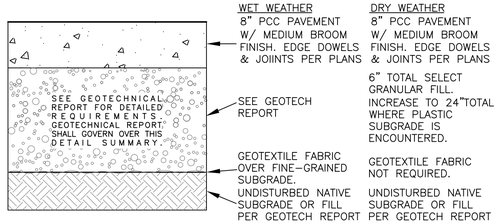


	WET WEATHER	DRY WEATHER
	6.5" CRUSHED AGGREGATE PER GETOECH.	6.5" CRUSHED AGGREGATE PER GETOECH.
	SEE GEOTECH REPORT	8" STRUCTURAL SUB-BASE. 24"TOTAL WHERE PLASTIC SUBGRADE IS ENCOUNTERED.
	GEOTEXTILE FABRIC OVER FINE-GRAINED SUBGRADE.	GEOTEXTILE FABRIC NOT REQUIRED.
	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT

THE BASE AGGREGATE AND CONCRETE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BASE AGGREGATE IS AS DESCRIBED IN GEOTECHNICAL REPORT, COMPACT SUBGRADE AND BASE AGGREGATE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI, W/ 650 PSI MIN. BEAM FLEXURAL STRENGTH, W/ MIN. 5-7% ENTRAINED AIR CONTENT. SUBMIT MIX DESIGN TO E.O.R. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS. GEOTECHNICAL ENGINEER TO REVIEW SUBGRADE & OBSERVE COMPACTION OF GRANULAR FILLS.

6 / C53 GRAVEL PVMT. SECTION LIGHT

SCALE 1" = NTS

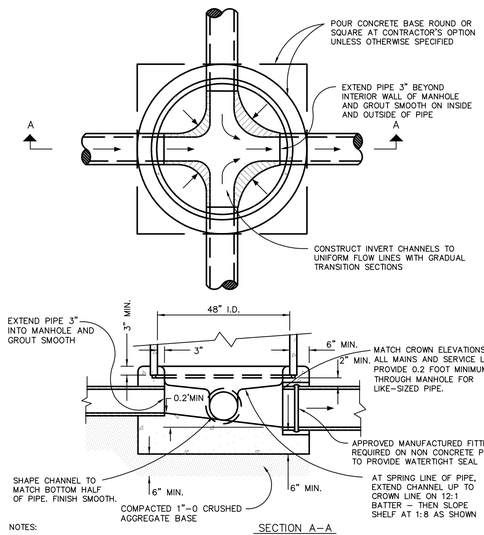


	WET WEATHER	DRY WEATHER
	8" PCC PAVEMENT W/ MEDIUM BROOM FINISH. EDGE DOWELS & JOIINTS PER PLANS	8" PCC PAVEMENT W/ MEDIUM BROOM FINISH. EDGE DOWELS & JOINTS PER PLANS
	SEE GEOTECH REPORT	6" TOTAL SELECT GRANULAR FILL. INCREASE TO 24"TOTAL WHERE PLASTIC SUBGRADE IS ENCOUNTERED.
	GEOTEXTILE FABRIC OVER FINE-GRAINED SUBGRADE.	GEOTEXTILE FABRIC NOT REQUIRED.
	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT	UNDISTURBED NATIVE SUBGRADE OR FILL PER GEOTECH REPORT

THE BASE AGGREGATE AND CONCRETE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BASE AGGREGATE IS AS DESCRIBED IN GEOTECHNICAL REPORT, COMPACT SUBGRADE AND BASE AGGREGATE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI, W/ 650 PSI MIN. BEAM FLEXURAL STRENGTH, W/ MIN. 5-7% ENTRAINED AIR CONTENT. SUBMIT MIX DESIGN TO E.O.R. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS. GEOTECHNICAL ENGINEER TO REVIEW SUBGRADE & OBSERVE COMPACTION OF GRANULAR FILLS.

5 / C53 PCC PVMT. SECTION -

SCALE 1" = NTS



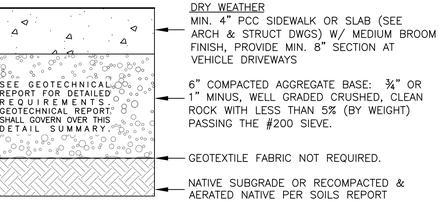
SECTION A-A

NOTES:

1) CONCRETE SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 P.S.I.
2) CHANNELS SHALL BE CONSTRUCTED TO PROVIDE SMOOTH SLOPES AND RADII TO OUTLET PIPE.
3) FALL THROUGH MANHOLE MAY BE REDUCED TO .1 FOOT WITH PRIOR APPROVAL BY THE ENGINEER.

4 / C53 MANHOLE BASE SECTION

SCALE 1" = NTS

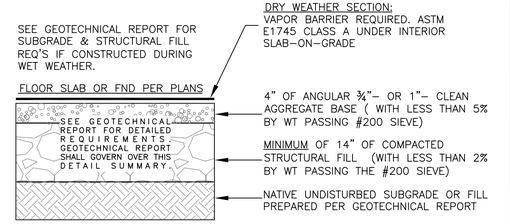


	DRY WEATHER
	MIN. 4" PCC SIDEWALK OR SLAB (SEE ARCH & STRUCT DWGS) W/ MEDIUM BROOM FINISH, PROVIDE MIN. 8" SECTION AT VEHICLE DRIVEWAYS
	6" COMPACTED AGGREGATE BASE: ¾" OR 1" MINUS, WELL GRADED CRUSHED, CLEAN ROCK WITH LESS THAN 5% (BY WEIGHT) PASSING THE #200 SIEVE.
	GEOTEXTILE FABRIC NOT REQUIRED.
	NATIVE SUBGRADE OR RECOMPACTED & AERATED NATIVE PER SOILS REPORT

THE BASE AGGREGATE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BASE AGGREGATE IS AS DESCRIBED IN GEOTECHNICAL REPORT, COMPACT BASE AGGREGATE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-698. 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 3500 PSI, W/ 450 PSI MIN. BEAM FLEXURAL STRENGTH, W/ MIN. 5-7% ENTRAINED AIR CONTENT. SUBMIT CONCRETE MIX DESIGN TO E.O.R. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS. GEOTECHNICAL ENGINEER TO REVIEW SUBGRADE AND OBSERVE COMPACTION OF GRANULAR FILLS.

3 / C53 SIDEWALK & EXTERIOR SLAB SECTION

SCALE 1" = NTS



SEE GEOTECHNICAL REPORT FOR SUBGRADE & STRUCTURAL FILL REQ'S IF CONSTRUCTED DURING WET WEATHER.

DRY WEATHER SECTION: VAPOR BARRIER REQUIRED. ASTM E1745 CLASS A UNDER INTERIOR SLAB-ON-GRADE

FLOOR SLAB OR FND PER PLANS

4" OF ANGULAR ¾"- OR 1"- CLEAN AGGREGATE BASE (WITH LESS THAN 5% BY WT PASSING #200 SIEVE)

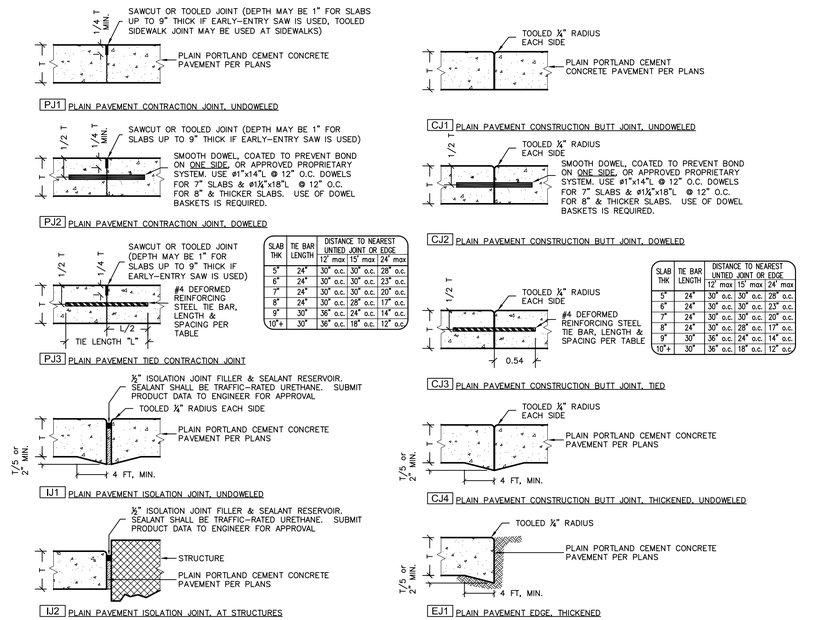
MINIMUM OF 14" OF COMPACTED STRUCTURAL FILL (WITH LESS THAN 2% BY WT PASSING THE #200 SIEVE)

NATIVE UNDISTURBED SUBGRADE OR FILL PREPARED PER GEOTECHNICAL REPORT

STRIP (E) GRADE TO 3' BEYOND BUILDING FOOTPRINT. STRIPING SHALL REMOVE ALL TOPSOIL AND SOFT UPPER SOILS (ASSUME 18" MINIMUM STRIPPING DEPTH FOR BIDDING, AND PROVIDE UNIT PRICE FOR ADDITIONAL OVEREXCAVATION). THE GEOTECHNICAL ENGINEER SHALL EVALUATE THE SUBGRADE PER GEOTECHNICAL REPORT DURING EXCAVATION AND PRIOR TO INSTALLATION OF IMPORTED FILL. OVEREXCAVATE AND REMOVE ALL AREAS AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. FILL AS REQUIRED FOR SPECIFIED FINISHED FLOOR ELEVATION AND CONCRETE SLAB-ON-GRADE THICKNESS PER PLANS WITH ANGULAR 3"- GRANULAR FILL. COMPACT GRANULAR AND AGGREGATE FILLS TO 95% RELATIVE DRY DENSITY PER ASTM D1557. CONTRACTOR SHALL OBTAIN & READ REPORT PRIOR TO CONSTRUCTION & ADHERE TO RECOMMENDATIONS FOUND THEREIN.

2 / C53 BUILDING PAD SECTION

SCALE 1" = NTS



SLAB THK	TIE BAR LENGTH	DISTANCE TO NEAREST UNTIED JOINT OR EDGE		
		12' max	15' max	24' max
5"	24"	30" o.c.	30" o.c.	28" o.c.
6"	24"	30" o.c.	30" o.c.	23" o.c.
7"	24"	30" o.c.	30" o.c.	20" o.c.
8"	24"	30" o.c.	28" o.c.	17" o.c.
9"	30"	36" o.c.	24" o.c.	14" o.c.
10"+	30"	36" o.c.	18" o.c.	12" o.c.

SLAB THK	TIE BAR LENGTH	DISTANCE TO NEAREST UNTIED JOINT OR EDGE		
		12' max	15' max	24' max
5"	24"	30" o.c.	30" o.c.	28" o.c.
6"	24"	30" o.c.	30" o.c.	23" o.c.
7"	24"	30" o.c.	30" o.c.	20" o.c.
8"	24"	30" o.c.	28" o.c.	17" o.c.
9"	30"	36" o.c.	24" o.c.	14" o.c.
10"+	30"	36" o.c.	18" o.c.	12" o.c.

1 / C53 PCC PAVEMENT JOINT DETAILS

SCALE 1" = NTS

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHMITT
RENEWAL 06/30/18

KEYED NOTES

① -
② -
③ -

No.	Revision/Issue	Date

Project Name and Address

CIVIL DETAILS

-

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD.
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/2017
Scale 1" = NTS
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **C53**

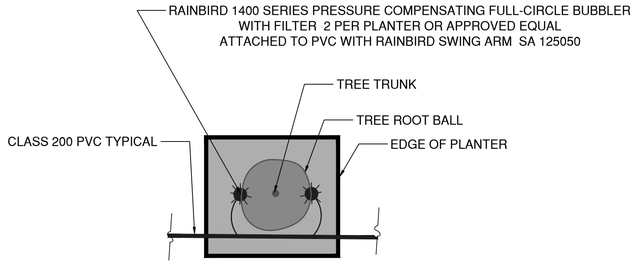
C53- CIVIL DETAILS.dwg
12/8/17

IRRIGATION
CONTRACTOR IS TO INSTALL A FULLY AUTOMATED UNDERGROUND IRRIGATION SYSTEM, TO SERVE THE PROPOSED PLANTS. ALL COMPONENTS SHALL BE RAINBIRD OR EQUIVALENT. SYSTEM SHALL BE BALANCED & PROPERLY FUNCTIONING. MITIGATION AND/OR EROSION CONTROL AREAS TO BE IN A SEPARATE ZONE SO THAT THEY MAY BE TURNED OFF OR DISCONTINUED ONCE THESE AREAS ARE ESTABLISHED.

USE BROWN VALVE BOX LIDS & LOCATE VALVE BOXES AWAY FROM PATHS, DOORS, & OUT OF THE DIRECT LINE OF SIGHT OF VISITORS.

INSTALL A CONTROLLER THAT HAS THE OPTION FOR 4 MORE ZONES THAN NEEDED AT THIS TIME.

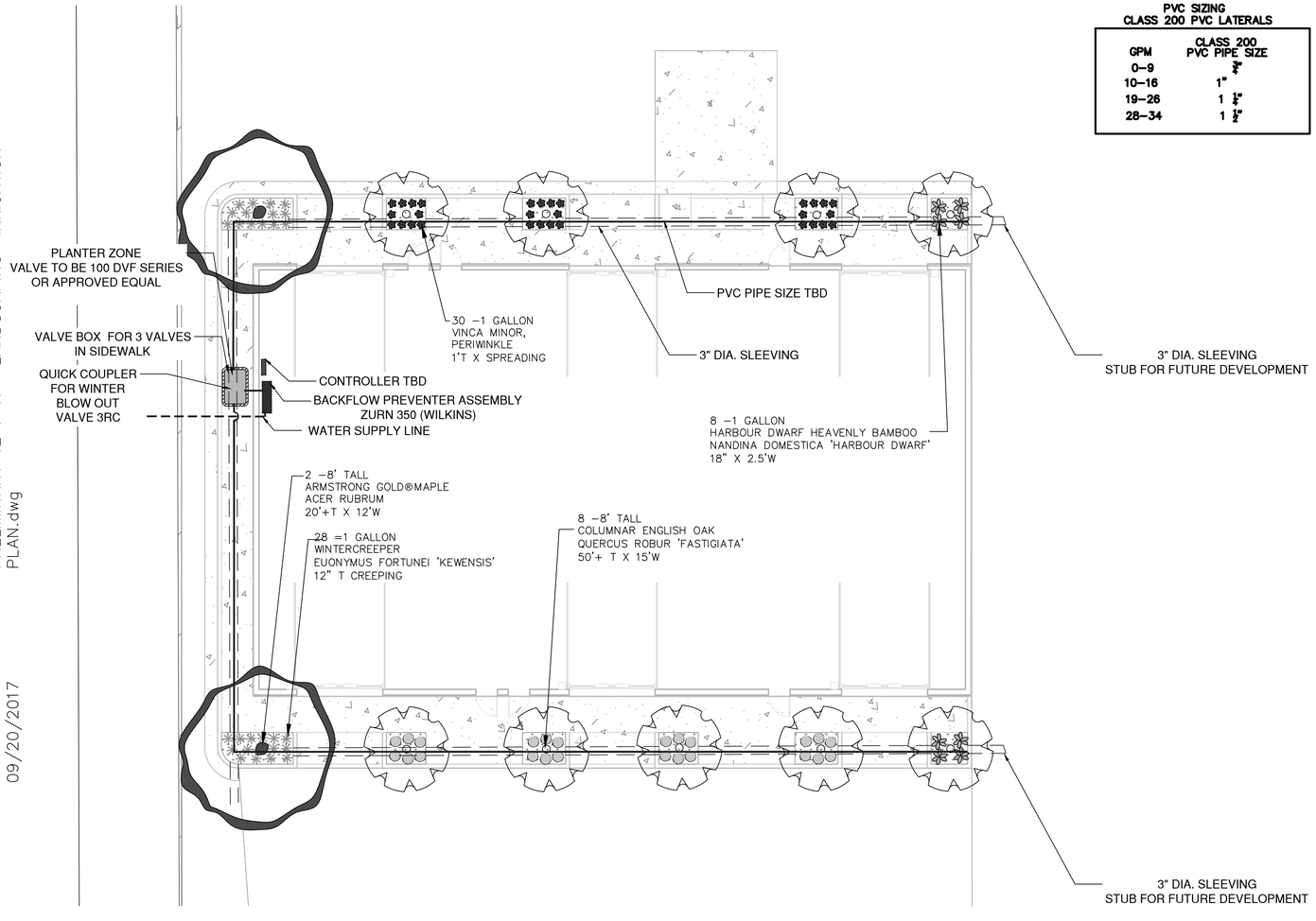
THE IRRIGATION SYSTEM IS TO MEET ALL CITY & STATE STANDARDS & LAWS.



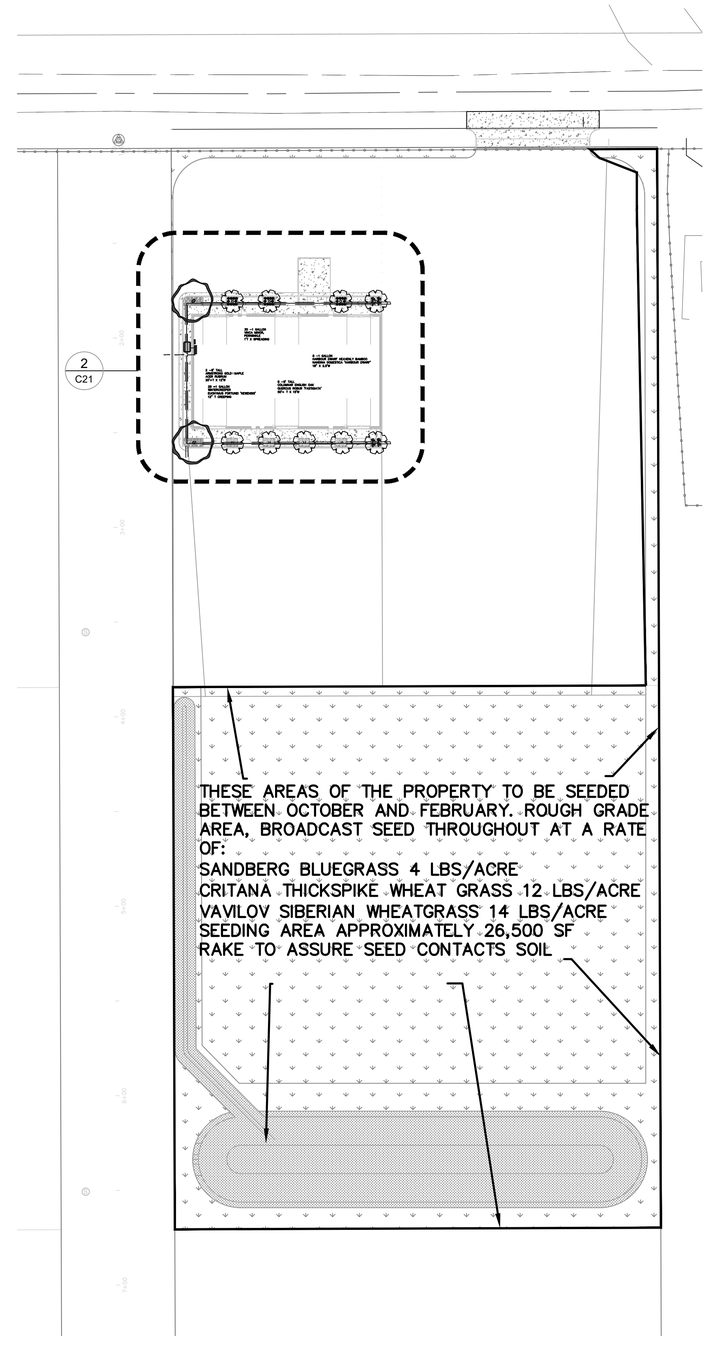
TYPICAL PLANTER IRRIGATION
NTS

PVC SIZING
CLASS 200 PVC LATERALS

GPM	CLASS 200 PVC PIPE SIZE
0–9	¾"
10–16	1"
19–26	1 ¼"
28–34	1 ½"



2 / L02 **LANDSCAPE & IRRIGATION PLAN**
SCALE 1" = 10'



1 / L02 **LANDSCAPE & IRRIGATION PLAN**
SCALE 1" = 40'

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541–752–9202
WWW.PILLAR–INC.COM

REGISTERED LANDSCAPE ARCHITECT
Eileen D. Obermiller
OREGON
11/07/97
RENEWS 11/18

KEYED NOTES

①
②
③

IF THESE PLANS ARE NOT SIGNED, CALL THE LANDSCAPE ARCHITECT TO ASSURE YOU HAVE THE CORRECT PLANS

EILEEN OBERMILLER
(541) 350–7436
P.O. Box 97
Powell Butte, OR 97753

DappledEarth.COM

No.	Revision/Issue	Date

Project Name and Address
LANDSCAPE & IRRIGATION PLAN
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT ROAD
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/2017
Scale 1" = AS INDICATED
0 1"
THE BAR ABOVE IS 1–INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **L01**

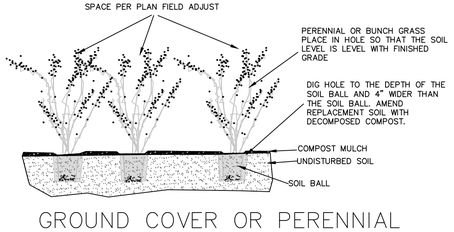
09/20/2017 PRELIMINARY 12 7 17– LANDSCAPING IRRIGATION PLAN.dwg

PRELIMINARY 12 7 17– LANDSCAPING IRRIGATION PLAN.dwg

09/20/2017

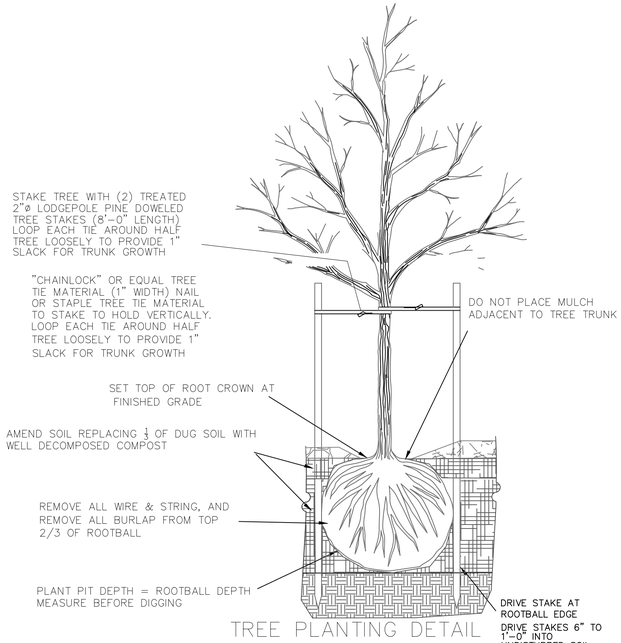
IMPORTANT
DO NOT ROTOTILL OR OTHERWISE DISTURB SOILS THAT ARE IN THEIR NATURAL CONDITION. WHEN PLANTING OR SEEDING IN UNDISTURBED AREAS, DIG A HOLE ONLY AS DEEP AS THE PLANT'S ROOTBALL. IF SEEDING, GENTLY RAKE IN SEED IN THE TOP 1–2" OF SOIL AND COVER WITH THE COMPOST MULCH APPROXIMATELY 1" DEEP.

DO ROTOTILL AREAS COMPACTED BY CONSTRUCTION BEFORE PLANTING.



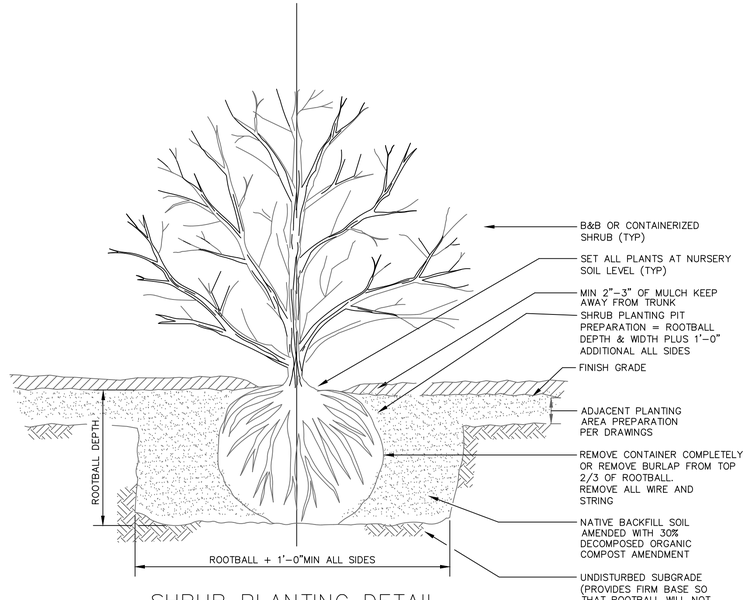
GROUND COVER OR PERENNIAL PLANTING DETAIL

NTS



TREE PLANTING DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541–752–9202
WWW.PILLAR–INC.COM

REGISTERED LANDSCAPE ARCHITECT
Eileen D. Obermiller
OREGON
11/07/97

RENEWS 11/18

KEYED NOTES

①
②
③

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EILEEN OBERMILLER
(541) 350–7436
P.O. Box 97
Powell Butte, OR 97753

DappledEarth.COM

No.	Revision/Issue	Date

Project Name and Address

LANDSCAPE & IRRIGATION PLAN

PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD
ARLINGTON, OR 97812

Project #: 2017015

Date 12/8/2017

Scale 1" = AS INDICATED

0 1"

THE BAR ABOVE IS 1–INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet **L02**

CONTRACTOR RESPONSIBILITIES

CONTRACTOR PLAN REVIEW:
CONTRACTOR IS RESPONSIBLE FOR REVIEWING THESE PLANS THOROUGHLY BEFORE BEGINNING WORK. CONTRACTOR SHALL BRING TO THE LANDSCAPE ARCHITECT'S ATTENTION ANY CONCERNS HE MAY HAVE WITH THE PLANS, PLANT SELECTION, QUANTITIES, MATERIALS OR OTHER PLAN ITEMS BEFORE BEGINNING WORK. CONTRACTOR SHALL ALSO REVIEW THE SITE AND SHALL BRING TO THE LANDSCAPE ARCHITECT'S ATTENTION ANY CONCERNS HE MAY HAVE WITH THE SITE BEFORE BEGINNING WORK.

UTILITIES:
CONTRACTOR IS RESPONSIBLE FOR CALLING THE OREGON UTILITY NOTIFICATION CENTER AT LEAST 4 BUSINESS DAYS BEFORE BEGINNING WORK. CONTACT THE CENTER AT 1-800-332-2344 OR HTTP://WWW.DIGSAFELYOREGON.COM.

PROTECTION:
CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TREES AND PLANTS, IRRIGATION, STRUCTURES, DRAINAGE STRUCTURES, AND OTHER SITE FEATURES DURING INSTALLATION AND SHALL REPAIR ANY DAMAGES TO THE SATISFACTION OF THE OWNER.

DOWNSPOUTS & DRAINAGE
CONTRACTOR IS TO ASSURE THAT ROOF & SURFACE FLOWS MOVE AWAY FROM STRUCTURES. LANDSCAPE. CONTRACTOR IS NOT TO BLOCK SURFACE FLOW WITH ANY WORK. IF THE CONTRACTOR FINDS ANY DRAINAGE PROBLEM HE IS TO NOTIFY THE PROPERTY OWNER IMMEDIATELY.

PLANT MATERIAL:
PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND MEET STANDARDS DESCRIBED IN THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK PREPARED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. PLANTS SHALL BE FREE OF DISEASE, INSECTS, WEEDS, EGGS, LARVAE, DEFECTS, INJURIES, OR DISFIGUREMENTS. SHOULD DISCREPANCIES OCCUR BETWEEN THE QUANTITIES ON THE PLANT LIST AND THOSE ON THE PLANS, THE PLANT QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.

DO NOT SHEAR PLANTS. OWNER MAY INSPECT PLANTS AND SOIL AMENDMENTS AT ANY TIME. PLANTS OR TOPSOIL FOUND DEFECTIVE OR IN ANY OTHER WAY SHORT OF SPECIFIED QUALITY WILL BE REJECTED.

OWNER RETAINS THE RIGHT TO FURTHER INSPECT TREES AND SHRUBS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIALS AT ANY TIME DURING PROGRESS OF WORK AND THROUGH WARRANTY PERIOD. REMOVE REJECTED PLANTS AND/OR MATERIALS FROM PROJECT SITE AND REPLACE WITH ACCEPTABLE MATERIALS IMMEDIATELY AND AT NO CHANGE TO THE CONTRACT PRICE.

IF CONTRACTOR CANNOT LOCATE A PLANT AT THE LISTED SIZE, HE SHALL SELECT THE NEXT CLOSEST SIZE OF THE SPECIES AND INFORM THE OWNER.

WEED MANAGEMENT:
THE CONTRACTOR SHALL HAVE AN OREGON PESTICIDE APPLICATION LICENSED PERSON(S) APPLY APPROPRIATE PRE-EMERGENT ON THE PROPERTY TO ALL PLANTING AREAS, BUT NOT SEEDED AREAS. ALL APPLICABLE STATE LAWS SHALL BE FOLLOWED. SPRAY PRE EMERGENT IMMEDIATELY AFTER PLANTING TO STOP WEEDS FROM GERMINATING.

SUBSTITUTIONS:
NO PLANT OR MATERIAL SUBSTITUTIONS BY THE CONTRACTOR SHALL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT.

PLANTING:
REMOVE GRAVEL, STONE, DEBRIS AND OTHER EXTRANEOUS MATERIALS FROM ALL PLANTING AREAS BEFORE PLACING TOPSOIL, SOIL AMENDMENT AND BEFORE PLANTING. REMOVE FROM THE SITE EXISTING SOIL AS NECESSARY TO PLACE TOPSOIL, AMENDMENTS, AND/OR COMPOST MULCH.

EXCAVATED SOIL IN THE PLANT PIT AND PLANTING/SHRUB BEDS SHALL BE CLEANED OF ROCK DEBRIS AND OTHER EXTRANEOUS MATERIALS PRIOR TO PLANTING. FILL PLANT PIT WITH WATER AND ALLOW PERCOLATING OUT PRIOR TO PLANTING. IF PLANT PIT HOLDS WATER FOR AN EXTENDED PERIOD CONTRACTOR SHALL DIG THE PIT DEEPER UNTIL GOOD DRAINAGE IS ACHIEVED. IF POOR DRAINAGE CANNOT BE REMEDIED, CONTRACTOR IS TO NOTIFY OWNER BEFORE PROCEEDING WITH WORK. REPLACE ONE THIRD OF THE EXISTING SOIL WITH DECOMPOSED COMPOST, MIXING THOROUGHLY.

STORE MATERIALS ON SITE ONLY IN AREAS APPROVED AND IDENTIFIED BY THE OWNER. KEEP ALL STORAGE AREAS IN A NEAT, CLEAN, AND SAFE CONDITION.

REMOVE PLANT CONTAINERS, WIRE BASKETS AND TWINE COMPLETELY FROM PLANTS. REMOVE BURLAP FROM TOP AND SIDES OF ROOT BALLS. EXCESS EXCAVATION MATERIAL SHALL BE REMOVED FROM THE PROPERTY. THE MATERIAL SHALL NOT BE PLACED IN COMMON AREAS, ROAD RIGHTS-OF-WAY, OR ON OTHER LOTS.

NEWLY PLANTED PLANTS SHALL BE WATERED IMMEDIATELY AFTER PLANTING. NEW PLANTS SHALL BE PLACED ON THE IRRIGATION SYSTEM SCHEDULE WITHIN 3 DAYS OF PLANTING.

CONTRACTOR IS TO WEED SITE WEEKLY UNTIL INSTALLATION IS COMPLETE & ACCEPTED BY THE OWNER.

MULCH:
SEE PLANS.

MAINTENANCE:
PROVIDE WEEKLY MAINTENANCE FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE FOR ALL PLANTINGS. MAINTENANCE TO INCLUDE TREATMENT FOR INSECTS AND DISEASE, PRUNING, MULCHING, CLEANING, AND WEEDING. MAINTAIN SMOOTH GRADES AND POSITIVE DRAINAGE. REPAIR ANY EROSION IMMEDIATELY. DO NOT ALLOW ERODING SOILS OR RUNOFF TO ENTER RIVER. WATER AND FERTILIZE ALL PLANTS AS NEEDED FOR GROWTH AND VIGOR. TIGHTEN AND REPAIR STAKES, GUYS AND TREE WRAP, RESET TO PROPER GRADE OR VERTICAL POSITION AS REQUIRED. REPLACE UNSATISFACTORY MATERIALS WITHIN ONE WORK WEEK OF IDENTIFYING MATERIAL AS UNSATISFACTORY.

KEEP WORK AND STORAGE AREAS IN A CLEAN AND ORDERLY CONDITION. REMOVE DEBRIS DAILY. KEEP ALL PAVED SURFACES AND STRUCTURE CLEAN AND FREE OF SOIL, MULCH, LEAVES, LITTER, AND DEBRIS. WASH DOWN WALKS, PAVED AREAS, WALLS AND STRUCTURES DAILY. KEEP WORK AREA IN A SAFE CONDITION. ERECT BARRIERS, COVER EXCAVATION AND TAKE OTHER MEASURES AS NECESSARY TO PROTECT THE GENERAL PUBLIC AND WORKERS ON THIS PROJECT.

INSPECTION:
INSPECTION WILL BE HELD FOR THE ENTIRE PROJECT AT ONE TIME. WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED AND FOUND TO BE ACCEPTABLE. REMOVE AND REPLACE REJECTED WORK PROMPTLY.

ONE YEAR FOLLOWING FINAL ACCEPTANCE, THE OWNER WILL INSPECT THE SITE TO DETERMINE THE CONDITION OF MATERIALS PROVIDED UNDER THIS CONTRACT. THE CONTRACTOR WILL REPLACE ANY PLANTS THAT DIED DUE TO IMPROPER INSTALLATION AT HIS COST. IMPROPER INSTALLATION INCLUDES PLANTS BEING PLANTED TOO DEEP OR TOO SHALLOW, CONTAINERS AND WRAPPINGS NOT COMPLETELY REMOVED AND SIMILAR PLANTING MISTAKES.

FEES FOR NORMAL INSPECTION AND TESTS WILL BE PAID BY THE OWNER. ADDITIONAL INSPECTIONS AND TESTS REQUIRED BECAUSE OF DEFECTIVE WORK OR ILL-TIMED NOTICES WILL BE AT THE CONTRACTOR'S EXPENSE.

WARRANTY:
REMOVE AND REPLACE PLANT MATERIAL THAT DIES, SHOWS UNSATISFACTORY GROWTH OR LACK OF VIGOR, ARE IN AN UNHEALTHY CONDITION, OR BECOME DISFIGURED. ANY PLANT THAT HAS DEAD BRANCHES OVER 25% OF THE PLANT SHALL BE CONSIDERED DEAD AND SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CONTRACT PRICE.

CONTRACTOR IS TO WARRANTY THE PLANTS HE PLANTS FOR 1 YEAR STARTING AT THE TIME OF FINAL APPROVAL. PLANT MATERIALS WHICH ARE REPLACED UNDER WARRANTEE SHALL HAVE AN EXTENDED WARRANTY PERIOD OF ONE YEAR STARTING FROM THE TIME OF REPLANTING.

THE CONTRACTOR IS REQUIRED TO MAINTAIN THE ENTIRE PROPERTY REMOVING WEEDS AND TRASH AND TENDING TO THE HEALTH OF THE PLANTS. DEAD OR DYING PLANTS ARE TO BE PROMPTLY REPLACED. EACH PLANT WILL BE IRRIGATED AS REQUIRED FOR ITS SPECIES. THE CONTRACTOR IS REQUIRED TO MAINTAIN SMOOTH GRADES AND POSITIVE DRAINAGE THROUGHOUT THE SITE; TO REPAIR ANY EROSION IMMEDIATELY; AND PREVENT ERODING SOILS OR RUNOFF TO ENTER RIVER.

PILLAR CONSULTING GROUP, INC.
835 NW 23rd ST.
CORVALLIS, OREGON 97330
PHONE: 541-752-9202
WWW.PILLAR-INC.COM

REGISTERED LANDSCAPE ARCHITECT
Eileen D. Obermiller
OREGON
11/07/97

RENEWS 11/18

KEYED NOTES
1
2
3

IF THESE PLANS ARE NOT SIGNED, CALL THE LANDSCAPE ARCHITECT TO ASSURE YOU HAVE THE CORRECT PLANS

EILEEN OBERMILLER
(541) 350-7436
P.O. Box 97
Powell Butte, OR 97753

DappledEarth.COM

No.	Revision/Issue	Date

Project Name and Address
LANDSCAPING NOTES
-
PORT OF ARLINGTON OREGON
INDUSTRIAL FLEX BUILDING
801 AIRPORT RD
ARLINGTON, OR 97812

Project #: 2017015
Date 12/8/2017
Scale
0 1"
THE BAR ABOVE IS 1-INCH LONG WHEN DRAWING IS PLOTTED TO SCALE

Sheet
L03

EPOXY ANCHOR NOTES

"EPOXY" SHOWN ON DRAWINGS SHALL BE HILTI RE-500-SD

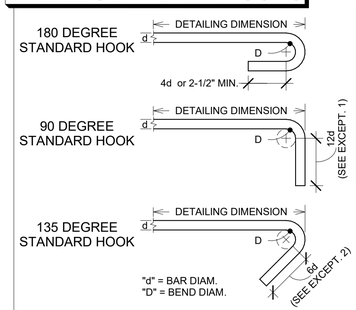
INSTALLATION OF ANCHORS SHALL MEET ALL REQUIREMENTS OF ICC REPORT ESR-2322

SPECIAL INSPECTION IS REQUIRED PER ICC ESR-3013 AND 2007 OSSC SECTION 1704.

HOLES SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT CONFORMING TO ANSI B212-1994.

REBAR	BIT DIA	EMBED
#4	5/8"	6"
#5	3/4"	6"

REBAR STANDARD HOOKS



BEND DIMENSIONS		
BAR SIZE	"D" TYP BARS & DOWELS	"D" STIRRUPS & HOOPS
#3	2 1/4"	1 1/2"
#4	3"	2"
#5	3 3/4"	2 1/2"
#6	4 1/2"	4 1/2"
#7	5 1/4"	5 1/4"
#8	6"	6"
#9	9 1/2"	n/a
#10	10 3/4"	n/a
#11	12"	n/a
#14	18 1/4"	n/a
#18	24"	n/a

EXCEPTIONS:

1) 90-DEGREE STIRRUP & TIE HOOK EXTENSION FOR #5 AND SMALLER BARS, 6d IS ALLOWED.

2) FOR 135-DEGREE HOOKS DESIGNATED AS "SEISMIC", THE MINIMUM HOOK EXTENSION SHALL BE THE LARGER OF 6d OR 3" MIN.

REINFORCING STEEL NOTES

STEEL REINFORCEMENT MATERIAL FOR CONCRETE OR MASONRY SHALL BE AS INDICTED BELOW. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL REINFORCING BARS AND WIRE SHALL BE DEFORMED:

ALL BARS (UNLESS NOTED OTHERWISE) ASTM A615, GR 60
TIES AND STIRRUPS . . . ASTM A615, GR 60

WELDING OF REINFORCING BARS SHALL BE ALLOWED ONLY WHERE SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER-OF-RECORD. WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4, WITH ELECTRODES:

ASTM A36 STEEL TO REBAR . . . 70 KSI ELECTRODES
ASTM A50 STEEL OR STRONGER TO REBAR 90 KSI ELECTRODES
REBAR TO REBAR . . . . 90 KSI ELECTRODES

SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION AND DELIVERY OF REINFORCING STEEL. DETAIL BARS IN ACCORDANCE WITH ACI DETAILING MANUAL, AND ACI 318 LATEST EDITIONS. REINFORCING STEEL SHOP AND PLACEMENT DRAWINGS SHALL INDICATE THE LOCATION OF ALL LAP SPLICES, CLASS OF LAP SPLICES AND LENGTH OF LAP SPLICES. WHERE MECHANICAL COUPLERS ARE SPECIFIED, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA TO THE ENGINEER-OF-RECORD FOR APPROVAL PRIOR TO INSTALLATION.

FABRICATION OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 301 AND THE TOLERANCES OF ACI 117. BEND REINFORCEMENT COLD UNLESS OTHERWISE APPROVED IN THE SHOP. FIELD BENDING OR STRAIGHTENING OF REINFORCEMENT PARTIALLY CAST INTO CONCRETE IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE ENGINEER-OF-RECORD. EPOXY COATED REINFORCING SHALL BE FABRICATED AND HANDLED IN ACCORDANCE WITH ASTM D3963 AND A775. DUAL COATED BARS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM D3963 AND A1055. BEND DIAMETERS FOR GALVANIZED BARS SHALL BE IN CONFORMANCE WITH ASTM A767, WITH DAMAGE TOUCH-UP IN ACCORDANCE WITH ASTM A780.

PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301, ACI 318, CHAPTER 7, AND APPROVED SHOP/PLACEMENT DRAWINGS AND PLANS. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITION SHOW ON PLANS. BAR SUPPORTS FOR UNCOATED BARS SHALL BE CLASS 1 WIRE, PRECAST CONCRETE OR ALL-PLASTIC MATERIAL. BAR SUPPORTS FOR COATED BARS, GALVANIZED BARS OR STAINLESS STEEL BARS SHALL BE CLASS 1A WIRE OR ALL-PLASTIC MATERIAL. EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A SPACING NO GREATER THAN 24 "O.C.. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. "WET SETTING" OR "STABBING" IS NOT PERMITTED.

SPLICES IN CONTINUOUS REINFORCEMENT IN REINFORCED CONCRETE ELEMENTS SHALL BE AS SPECIFIED PER PLANS. WHERE PLANS DO NO PROVIDE SPECIFIC LAP LENGTHS, THE LENGTH SHALL BE AS SPECIFIED IN THE "REBAR DEVELOPMENT LENGTH & LAP SPLICES" TABLE AND APPLICABLE NOTES. WHERE LAP SPLICE CLASS (I.E. CLASS A, CLASS B) ARE NOT SPECIFICALLY INDICATED, A "CLASS B" LAP SPLICE SHALL BE USED, IN ACCORDANCE WITH THE "REBAR DEVELOPMENT LENGTH & LAP SPLICES" TABLE AND APPLICABLE NOTES. SPLICES SHALL NOT BE MADE UNLESS SPECIFIED OR APPROVED BY THE E.O.R.

REINFORCEMENT PROTECTION (CLEAR COVER REQUIREMENTS):
UNLESS A GREATER COVER IS SPECIFIED PER PLANS, COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) SHALL NOT BE LESS THAN THE FOLLOWING:

A) CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH . . . 3"

B) CONCRETE EXPOSED TO EARTH OR WEATHER
B1) #6 THROUGH #18 BARS . . . . . 2"
B2) #5 AND SMALLER BARS, W31 OR D31 WIRE, AND SMALLER . . 1-1/2"

C) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
C1) SLABS, WALLS AND JOISTS
C1.1) #14 AND #18 BARS . . . . . 1-1/2"
C1.2) #11 BAR AND SMALLER . . . . . 3/4"
C2) BEAMS, COLUMNS
C2.1) PRIMARY REINFORCEMENT, TIES, STIRRUPS . . . . 1-1/2"

REBAR DEVELOPMENT LENGTH & LAP SPLICES

SIZE	BAR LOCATION	3000 PSI CL. A	3000 PSI CL. B	4000 PSI CL. A	4000 PSI CL. B	5000 PSI CL. A	5000 PSI CL. B	6000 PSI CL. A	6000 PSI CL. B	REQ'D SPACING REQ'D COVER
#3	TOP	22 in.	29 in.	19 in.	25 in.	17 in.	23 in.	16 in.	21 in.	S = 1.125" MIN.
	OTHER	17 in.	23 in.	15 in.	20 in.	13 in.	17 in.	12 in.	16 in.	MIN. 3/8" COVER
#4	TOP	29 in.	38 in.	25 in.	33 in.	23 in.	30 in.	21 in.	28 in.	S = 1.500 MIN.
	OTHER	22 in.	29 in.	19 in.	25 in.	17 in.	23 in.	16 in.	21 in.	MIN. 1/2" COVER
#5	TOP	36 in.	47 in.	31 in.	41 in.	28 in.	37 in.	26 in.	34 in.	S = 1.875" MIN.
	OTHER	28 in.	37 in.	24 in.	32 in.	22 in.	29 in.	20 in.	26 in.	MIN. 5/8" COVER
#6	TOP	43 in.	56 in.	37 in.	49 in.	34 in.	45 in.	31 in.	41 in.	S = 2.250" MIN.
	OTHER	33 in.	43 in.	29 in.	38 in.	26 in.	34 in.	24 in.	32 in.	MIN 3/4" COVER
#7	TOP	63 in.	82 in.	54 in.	71 in.	49 in.	64 in.	45 in.	59 in.	S = 2.625"
	OTHER	48 in.	63 in.	42 in.	55 in.	38 in.	50 in.	34 in.	45 in.	MIN. 7/8" COVER
#8	TOP	72 in.	94 in.	62 in.	81 in.	56 in.	73 in.	51 in.	67 in.	S = 3.000" MIN.
	OTHER	55 in.	73 in.	48 in.	63 in.	43 in.	56 in.	39 in.	51 in.	MIN. 1" COVER
#9	TOP	81 in.	106 in.	70 in.	91 in.	63 in.	82 in.	57 in.	75 in.	S = 3.384" MIN.
	OTHER	62 in.	81 in.	54 in.	71 in.	48 in.	63 in.	44 in.	58 in.	MIN. 1-1/8" COVER
#10	TOP	91 in.	119 in.	79 in.	103 in.	71 in.	93 in.	64 in.	84 in.	S = 3.810" MIN.
	OTHER	70 in.	91 in.	61 in.	80 in.	54 in.	71 in.	50 in.	65 in.	MIN. 1-1/4" COVER
#11	TOP	101 in.	132 in.	87 in.	114 in.	78 in.	102 in.	71 in.	93 in.	S = 4.230" MIN.
	OTHER	78 in.	102 in.	67 in.	88 in.	60 in.	78 in.	55 in.	72 in.	MIN. 1-7/16" COVER

NOTES:

1) WHERE TENSION DEVELOPMENT OR SPLICE LENGTHS ARE SPECIFICALLY INDICATED ON PLANS OR DETAILS, THOSE LENGTHS SHALL GOVERN.

2) WHERE SPLICE LENGTHS ARE INDICATED AS "CLASS A" (CL A) OR "CLASS B" (CL B) WITH NO SPECIFIC LENGTHS GIVEN, THIS TABLE SHALL APPLY

3) TENSION DEVELOPMENT AND SPLICE LENGTHS SHOWN APPLY TO BARS CAST IN NORMAL WEIGHT CONCRETE MEETING ALL CRITERIA BELOW:

3a) UNCOATED GRADE 60 REINFORCING STEEL IN ACCORDANCE WITH ASTM A615 OR ASTM A706 & INSTALLED PER ACI 301

3b) BARS HAVING CLEAR COVER NOT LESS THAN THE 1X DIAMETER OF THE BAR

3c) BARS HAVING A CENTER-TO-CENTER SPACING NOT LESS THAN 3X THE BAR DIAMETERS

4) CONSULT ENGINEER-OF-RECORD FOR BARS NOT MEETING CRITERIA IN NOTE #3 ABOVE, WHERE SPECIFIC SPLICE LENGTHS ARE NOT INDICATED

5) "TOP" BAR LOCATION IS APPLICABLE FOR HORIZONTAL BARS WHEN MORE THAN 12" OF CONCRETE IS PLACED BELOW DEVELOPMENT OR SPLICE

6) WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE THE DEVELOPMENT AND SPLICE LENGTHS IN THE TABLE ABOVE BY A FACTOR OF 4/3

7) FOR COATED BARS, MULTIPLY TABLE VALUES BY A FACTOR OF 1.5, OR SEE ACI 381, CHAPTER 12 FOR ADDITIONAL REQUIREMENTS

8) FOR BUNDLED BARS, TABULATED LENGTHS SHALL BE INCREASED BY FACTORS OF 1.2 FOR (3) BAR BUNDLES, AND 1.33 FOR (4) BAR BUNDLES

9) BUNDLED BARS SHALL BE TREATED AS A SINGLE BAR HAVING THE DIAMETER OF THE EQUIVALENT TOTAL AREA, FOR NOTE #3 CRITERIA

10) FOR BARS OF DIFFERENT SIZE, SPLICE LENGTH SHALL BE THE LARGER OF CL A OF LARGER BAR AND CL B OF SMALLER BAR

11) SPLICED BARS SHALL BE IN CONTACT OR NOT FURTHER APART THAN 1/5 THE REQUIRED SPLICE LENGTH; NOT TO EXCEED 6" OF SEPARATION

CONCRETE NOTES

CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH THE REQUIREMENTS FOUND IN ACI 318 AND ACI 301, MOST CURRENT EDITIONS, AND PROJECT SPECIFICATIONS

REINFORCING SHALL BE PLACED IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE", AND THE REQUIREMENTS OF ACI 301, LATEST EDITIONS.

CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE CONFIGURED SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET.

HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE THE ENTIRE SURFACE REMOVED TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT.

CONCRETE SHALL BE HARDROCK CONCRETE (UNO) AND MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MINIMUM 28 DAY COMPRESSIVE STRENGTH	MAXIMUM AGGREGATE SIZE
SPREAD FOOTINGS	3000 PSI	1 1/2"
SLAB ON GRADE*	4000 PSI	1 1/2"
STRIP FTGS/THICKENED EDGES	4000 PSI	1 1/2"
PIERS	4000 PSI	1 1/2"

* COORDINATE WATER TO CEMENT RATIO AND OTHER REQUIREMENTS WITH FLOOR COATING

FOR INTERIOR SLABS-ON-GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E. GLUED, ETC), THE MAXIMUM WATER/CEMENT RATIO SHALL NOT EXCEED 0.46.

CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF CHAPTER 3, 4 AND 5 OF ACI 318.

SEE A-SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS, AND SEE GENERAL DETAILS ON THIS SHEET.

DERERRED APPROVAL ITEMS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND THEN SUBSEQUENTLY REVIEWED AND APPROVED BY THE BUILDING OFFICIAL PRIOR TO INSTALLATION.

MECHANICAL NOTES

1. MECHANICAL CONTRACTOR TO VERIFY ALL MECHANICAL UNIT LOCATIONS, SIZES AND OPENINGS.
2. MECHANICAL CONTRACTOR TO SUBMIT HVAC ANCHORAGE DETAILS STAMPED AND SIGNED BY AN OREGON LICENSED CIVIL ENGINEER.

FIRE SPRINKLER ANCHORAGE

1. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE CALCULATIONS, DETAILS AND PLANS OF ALL FIRE SPRINKLER ANCHORAGE. DESIGN PER ASCE 7-10 & NFPA 13.
2. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HANGER AND BRACING ANCHORAGE LOCATION WITH THE STRUCTURAL DRAWINGS AND ROOF AND FLOOR FRAMING SYSTEMS BY OTHERS.
3. SUBMIT PLANS, DETAILS, AND CALCULATIONS STAMPED AND SIGNED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

GENERAL DESIGN CRITERIA

ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE MOST CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE, ADOPTED & AMENDED BY THE LOCAL AHJ. AND OTHER APPLICABLE FEDERAL, STATE, COUNTY & LOCAL MUNICIPAL REQUIREMENTS. SAFETY IS THE CONTRACTOR'S RESPONSIBILITY.

THESE DRAWINGS ARE REPRESENTATIVE ONLY OF THE STRUCTURAL DESIGN & ARE NOT INTENDED TO PROVIDE A WORK PLAN OR METHOD OF CONSTRUCTION. MEANS AND METHODS OF CONSTRUCTION ARE THE CONTRACTOR'S RESPONSIBILITY.

ALL CONSTRUCTION SHALL BE COORDINATED W/SPECIAL INSPECTION & REQUIRED OBSERVATIONS. SUCH COORDINATION & PLANNING IS THE RESPONSIBILITY OF THE CONTRACTOR.

THESE DRAWINGS SHALL BE COORDINATED W/ CIVIL, MECHANICAL, ELECTRICAL, ARCHITECTURAL, PLUMBING & OTHER DESIGN DRAWINGS BEFORE WORK BEGINS & THROUGHOUT CONSTRUCTION. CONFLICTS SHALL BE REPORTED TO THE ENGINEER BEFORE WORK BEGINS.

CODES & STANDARDS

GENERAL NOTES & TYPICAL DETAILS SHOWN ON DRAWINGS APPLY TO ALL STRUCTURAL DRAWINGS UNLESS SHOWN OR NOTED OTHERWISE.

2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
ASCE 7-2010 WAS REFERENCED FOR BUILDING DESIGN LOADS & DESIGN CRITERIA

DESIGN LOADS & INFORMATION

A) ROOF DEAD LOAD	PER METAL BUILDING MANUFACTURER'S CALCULATIONS
B) ROOF COLLATERAL LOAD	PER METAL BUILDING MANUFACTURER'S CALCULATIONS
C) ROOF SNOW LOAD	PER METAL BUILDING MANUFACTURER'S CALCULATIONS
D) WIND LOAD INFORMATION:	
D.1 METHOD	PER METAL BUILDING MANUFACTURER'S CALCULATIONS
D.2 BASIC WIND SPEED	" "
D.3 EXPOSURE	" "
D.4 IMPORTANCE FACTOR	" "
E) SEISMIC LOAD INFORMATION:	
E.1 METHOD	PER METAL BUILDING MANUFACTURER'S CALCULATIONS
E.2 DESIGN SPECTRAL ACCELERATIONS:	" "
E.3 SITE CLASS & DESIGN CATEGORY:	" "
E.4 BUILDING CATEGORY	" "
E.5 STRUCTURAL SYSTEM, R	"
F) SOIL BEARING CAPACITY:	
F.1 ALLOWABLE BEARING CAPACITY	1500 PSF WITH 1/3 ALLOW INCREASE FOR SHORT TERM
F.2 GEOTECHNICAL INVESTIGATION BY:	MATERIALS TESTING & INSPECTION
REPORT NUMBER / DATED	B171044g / DATED: AUGUST 9, 2017
G) PRE-ENGINEERED METAL BUILDING MANUF.	TBD

GENERAL NOTES

THIS DRAWING SET APPLIES TO THE NORTH GILLIAM COUNTY RURAL FIRE PROTECTION DISTRICT FIRE STATION BUILDING IN ARLINGTON, OREGON ONLY.

CALL FOR UNDERGROUND LOCATES (1-800-332-2344) A MINIMUM OF 48 HOURS PRIOR TO UNDERGROUND CONSTRUCTION (IF REQUIRED).

THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON-SITE AT ALL TIMES WHEREON A RECORD OF APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS LOCATIONS AND DEPTHS SHALL BE RECORDED.

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2010 OREGON STRUCTURAL SPECIALTY CODE (OSSC) AND OTHER GOVERNING, CODES, LAWS, RULES AND REGULATIONS.

THE WORK INCLUDED IN THIS PROJECT SHALL COMPLY WITH THE 1990 AMERICAN WITH DISABILITIES ACT (ADA) AND 2010 OSSC,CHAPTER 11.

PRE-ENGINEERED WOOD BUILDING, DESIGN-BUILD BY GENERAL CONTRACTOR AND OWNER. FIRE SPRINKLER PROTECTION DESIGN BUILD.

COORDINATE THESE PLANS AND THE BUILDING DESIGN WITH SITE CIVIL REQUIREMENTS AND LAND-USE CONDITIONS OF APPROVAL.

FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

MAINTAIN DEQ 1200C PERMIT (CURRENTLY IN PLACE)

CONTRACTOR DESIGNED FIRE SPRINKLER SYSTEM PER NFPA-13. ORDINARY HAZARD GROUP 1 THROUGHOUT

CRITICAL EQUIPMENT SHALL BE TESTED PER ASCE 7-05 SECTION FOR 13.2.2 FOR DESIGNATED SEISMIC SYSTEMS. SUCH PROVISIONS SHALL APPLY TO EMERGENCY GENERATOR AND ASSOCIATED EQUIPMENT, HVAC UNITS, FANS, WATER HEATER, AND COMMUNICATION EQUIPMENT.

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-001 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987)

SPECIAL INSPECTION AND TESTING

THE OWNER OR OWNER'S REPRESENTATIVE SHALL HIRE AN INDEPENDENT INSPECTION AGENCY, APPROVED BY THE BUILDING OFFICIAL, TO INSPECT PORTIONS OF THE WORK REQUIRING SUCH INSPECTION. SPECIAL INSPECTIONS ARE SEPARATE FROM AND IN ADDITION TO REQUIRED MUNICIPAL AGENCY INSPECTIONS AND BUILDING PERMIT CHECK-OFFS. THE LIST BELOW SPECIFIES PORTIONS OF THE WORK REQUIRING SPECIAL INSPECTIONS. THE INSPECTIONS ARE DEFINED AS EITHER PERIODIC (P) OR CONTINUOUS (C) AS DEFINED PER 2014 OSSC, CHAPTER 2. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND TESTING AND PROVIDE REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD AND THE PROJECT OWNER. REPORTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF OSSC 1704.2.4.

SOILS

REQ'D	INSPECTION, TESTING or VERIFICATION	REFERENCE	CON	PER	REMARKS
YES	TESTING OF COMPACTED FILL MATERIALS	OSSC 1803			BY GEOTECHNICAL ENGINEER
YES	TESTING OF FILL OR PREPARED SUBGRADE DENSITY	OSSC 1704.7		X	BY GEOTECHNICAL ENGINEER
YES	MATERIAL VERIFICATION	OSSC 1704.7		X	BY GEOTECHNICAL ENGINEER
YES	VERIFY FOOTING BEARING CAPACITY & SUBGRADE PREP.	OSSC 1704.7		X	BY GEOTECHNICAL ENGINEER
YES	VERIFY FILL MATERIAL, PLACEMENT & COMPACTION	OSSC 1704.7	X		BY GEOTECHNICAL ENGINEER
YES	VERIFY DEPTH OF EXCAVATION & PROPER SUBGRADE SOILS	OSSC 1704.7		X	SEE GEOTECH REPORT
YES	PERFORM CLASSIFICATION OF COMPACTED FILL MATERIALS	OSSC 1704.7, 1803.5.1		X	SEE GEOTECH REPORT
YES	VERIFY PROPER MATERIALS, DENSITIES, PLACEMENT AND COMPACTION OF FILL MATERIALS	OSSC 1704.7	X		BY GEOTECHNICAL ENGINEER
YES	PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY SITE HAS BEEN PROPERLY PREPARED	OSSC 1704.7		X	SEE GEOTECH REPORT

CONCRETE

REQ'D	INSPECTION, TESTING or VERIFICATION	OSSC	REF. STD.	CON	PER	REMARKS
YES	REINFORCING STEEL AND PRESTRESSING TENDON PLACEMENT	1705.3, 1910.4, 1901.3.2	ACI 318: 3.5, 7.1-7.7		X	
YES	PLACEMENT OF BOLTS INSTALLED IN CONCRETE	1705.3, 1908.5, 1909.1	ACI 318: 1.3.2.c, 8.1.3, 21.1.8	X		ALL BOLTS TO BE VISUALLY INSPECTED
YES	VERIFY USE OF REQUIRED MIX DESIGN(S)	1705.3, 1904, 1910.2, 1911.3, 1901.3.1	ACI 318: CH 4, 5.2-5.4	X	X	
YES	PLACEMENT OF CONCRETE	1705.3	ACI 318: 1.3.2.c, 5.9-5.10	X		
YES	SLUMP, AIR CONTENT, TEMPERATURE AT TIME OF SAMPLING FOR STRENGTH TESTS	1705.3	ASTM C172, C31, C143, C231, C1064	X		FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED. TAKE MINIMUM SAMPLES PER ACI 318 5.6.2. SEE ACI318 5.6.2.4 FOR CYLINDER QUANTITY AND SIZE.
YES	CONCRETE STRENGTH TESTS	1705.3, 1903	ASTM C39 ACI 318 CH 5	X		
YES	CONCRETE / SHOTCRETE CURING	1705.3, 1905.11-13, 1913.9	ACI 318: 1.3.2.d, 5.11-5.13		X	
YES	VERIFICATION OF FORMWORK	1705.3	ACI 318: 6.1.1		X	VERIFY ALL DIMENSIONS
YES	CONCRETE STRENGTH PRIOR TO REMOVAL OF FORMS	1705.3	ACI 318: 6.2		X	

POST INSTALLED CONCRETE ANCHORS

REQ'D	INSPECTION, TESTING or VERIFICATION	OSSC	REF. STD.	CON	PER	REMARKS
YES	INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ICC EVALUATION REPORT; ACI 318: 3.8.6, 8.1.3, 21.1.8		X	INSPECTIONS TO INCLUDE ITEMS LISTED WITHIN SPECIAL INSPECTIONS SECTION OF ICC EVALUATION REPORT

S-SHEETS ARE FOR BID PURPOSES ONLY. DRAWINGS WILL BE REVISED WHEN METAL BUILDING FOUNDATION REACTIONS ARE PROVIDED BY CONTRACTOR. FOOTING SIZES, ELEVATIONS AND DIMENSIONS MAY BE ADJUSTED PER THE BID DOCUMENTS.

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

STRUCTURAL NOTES

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER #51569 DIGITAL SIGNATURE OREGON 13, 1987 JEREY T. SCHOTT

PRELIMINARY

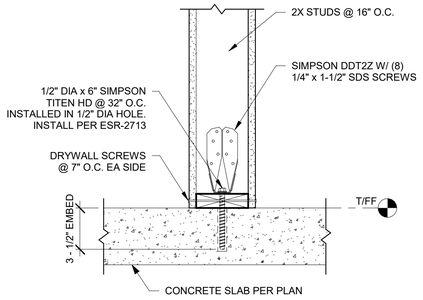
Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

S01

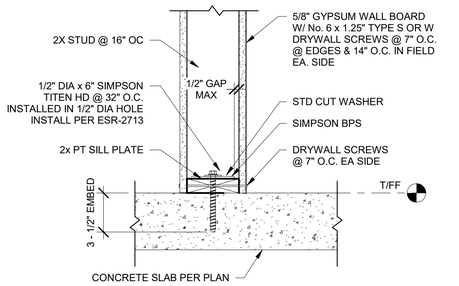
Scale 1 : 1

12/8/2017 12:00:45 PM

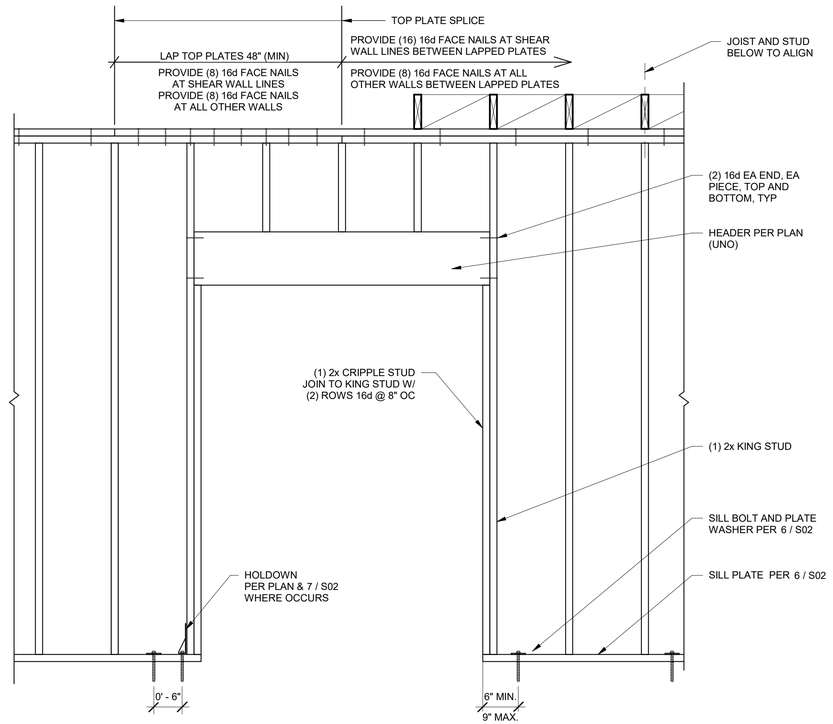
S-SHEETS ARE FOR BID PURPOSES ONLY. DRAWINGS WILL BE REVISED WHEN METAL BUILDING FOUNDATION REACTIONS ARE PROVIDED BY CONTRACTOR. FOOTING SIZES, ELEVATIONS AND DIMENSIONS MAY BE ADJUSTED PER THE BID DOCUMENTS.



7 S02 SHEARWALL HOLD-DOWN CONNECTION
1 1/2" = 1'-0"



6 S02 SILL BOLTING AT SHEARWALL
1 1/2" = 1'-0"



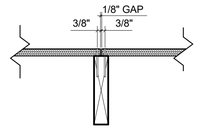
NOTES:

STUD SPACING = 16"OC UNO

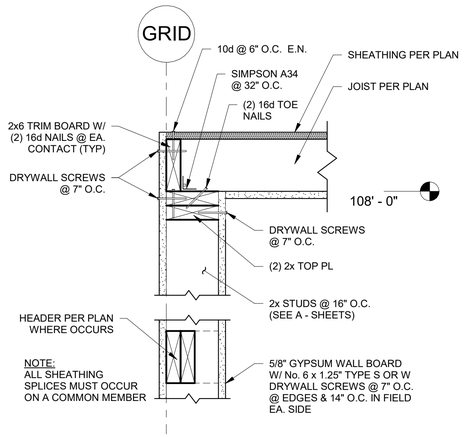
SEE NAILING SCHEDULE FOR ALL NAILING NOT SHOWN ON PLANS AND DETAILS

SEE PLAN FOR HEADERS AT BEARING WALLS

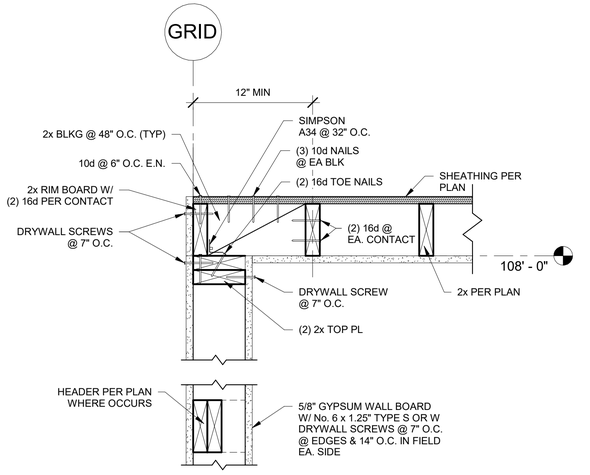
5 S02 TYPICAL WALL OPENING FRAMING
3/4" = 1'-0"



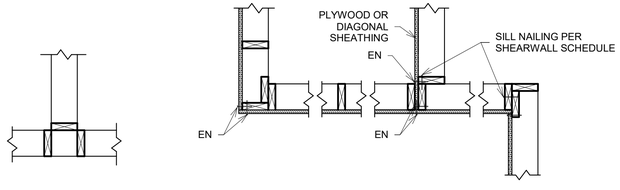
4 S02 STRUCTURAL PLYWOOD SPLICE
1 1/2" = 1'-0"



3 S02 TOP OF END WALL (2X6)
1 1/2" = 1'-0"



2 S02 TOP OF SIDE WALL (2X6)
1 1/2" = 1'-0"



INTERSECTION OF WALL NOT SHEATHED

SHEATHED, INTERSECTION WALLS, SEE NAILING SCHEDULE

1 S02 STUDS @ ANGLES & CORNERS
3/4" = 1'-0"

NAILING SCHEDULE

(UNLESS OTHERWISE NOTED ON PLANS OR DETAILS)

-NAIL SPACING SHALL NOT BE LESS THAN REQUIRED PENETRATION.
-EDGE AND END DISTANCES SHALL NOT BE LESS THAN 1/2 THIS SPACING.
-ALL SPACING, EDGE AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
-HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
-COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW AS WELL AS FOR ALL CONNECTIONS NOTED OR DETAILED ON PLANS.
-NAILS IN EXTERIOR PLY SHALL BE RING-SHANK NAILS.
-NAILS IN PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.

CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	(3) 8d	TOENAIL
BRIDGING TO JOIST	(2) 8d	TOENAIL EA. END
1"X6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d	FACE NAIL
WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST	(3) 8d	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d	BLIND AND FACE NAIL
SILL PLATE TO JOIST OR BLOCKING	16d @ 16"OC	FACE NAIL
TOP PLATE TO STUD	(2) 16d	END NAIL
STUD TO SILL PLATE / OR,	(4) 8d	TOENAIL / OR,
AT 2X SILL PLATE	(2) 16d	END NAIL
AT 3X SILL PLATE	(2) 20d	END NAIL
DOUBLE STUDS	16d @ 24"OC	FACE NAIL
DOUBLE TOP PLATES	16d @ 16"OC	FACE NAIL
AT LAP SPLICE	(8) 16d (UNO)	FACE NAIL
AT LAP SPLICEON SHEAR WALL LINE	PER PLAN AND DETAIL	FACE NAIL
AT LAPPED INTERSECTION	(2) 16d	FACE NAIL
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	(3) 8d	TOENAIL
RIM JOIST TO TOP PLATE	8d @ 6" OC	TOENAIL
CONTINUOUS HEADER, TWO PIECES	16d @ 16" OC	ALONG EDGE
CONTINUOUS HEADER TO STUD	(4) 8d	TOENAIL
CEILING JOIST TO TOP PLATE	(3) 8d	TOENAIL
CEILING JOIST, LAPS OVER PARTITIONS	(3) 16d	FACE NAIL
CEILING JOIST TO PARALLEL RAFTERS	(3) 16d	FACE NAIL
RAFTER TO PLATE	(3) 8d	TOENAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) 8d	FACE NAIL
1" X 8" SHEATHING OR WIDER TO EACH BEARING	(3) 8d	FACE NAIL
BUILT-UP CORNER STUDS	16d @ 24" OC	FACE NAIL
BUILT-UP GIRDERS AND BEAMS	20d	FACE NAIL AT TOP
AT TOP AND BOTTOM STAGGERED ON OPP SIDES	20d	FACE NAIL
AT ENDS	(2) 20d	FACE NAIL
AT EACH SPLICE	(2) 20d	FACE NAIL
2" PLANKS AT EACH BEARING	(2) 16d	FACE NAIL
LEDGER STRIP AT EACH CONTACT	(3) 16d	FACE NAIL

NAIL SCHEDULE (COMMON NAILS)

SIZE	DIAMETER (IN)	LENGTH (IN)
8d	0.131	2.5
10d	0.148	3
12d	0.148	3.25
16d	0.162	3.5
20d	0.192	4

TYPICAL FRAMING NOTES

SEE THIS SHEET FOR TYPICAL NOTES, DETAILS, AND NAILING.

ELEVATIONS SHOWN ON PLANS ARE FROM FINISHED FIRST FLOOR, DATUM ELEVATION = 100' - 0".

SAWN LUMBER GRADING SHALL BE AS DEFINED BELOW

ALL GRADES SPECIFIED ON PLANS OR IN NOTES ARE MINIMUM GRADES REQUIRED.

DOUGLAS FIR (DF) SHALL BE GRADED BY THE WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES AND ASTM D245.

CONDITION	SPECIES (UNO)	GRADE (UNO)
SILL PLATES @ LOAD BEARING AND SHEAR WALLS	HF	#2
STUDS AND TOP PLATES	DF	#2
BLOCKING, FURRING AND BRACING	DF	#2
JOIST, RAFTERS AND PURLINS	DF	#2

SILL PLATES SHALL BE PRESSURE TREATED AND SHALL BE BOLTED TO CONCRETE WITH 1/2" DIAMETER SIMPSON TITEN HD WITH 3-1/2" EMBED @ 32" O.C. MAX, UNO (SEE SHEAR WALL SCHEDULE). PROVIDE 2 BOLTS MIN AT EACH PIECE AND A BOLT BETWEEN 6" AND 9" FROM EACH END OF EACH PIECE. PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OUT OVER 1/3 OF CROSS-SECTION. BOLTS FOR NON-STRUCTURAL WALLS SUPPORTED ON SLABS ONLY, SHALL HAVE 3" EMBED, UNO.

STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT WALL AND PARTITION INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".

WOOD GIRDERS, BEAMS, JOIST OR RAFTERS SHALL BE LIMITED TO BORED HOLES WITH DIAMETER NOT GREATER THAN 1/5 OF MEMBER DEPTH. THESE HOLES SHALL BE LOCATED WITHIN THE MIDDLE 1/3 OF MEMBER DEPTH, NOT CLOSER TO THE MEMBER END THAN 3 TIMES THE MEMBER DEPTH AND WITH A SPACING EQUAL TO AT LEAST 4 TIMES THE HOLE DIAMETER.

HOLES EXCEEDING 1/3 OF THE PLATE WIDTH SHALL NOT BE PLACED IN PARTITIONS USED AS BEARING OR LATERAL FORCE RESISTING WALLS. WHERE ALLOWED, PIPES SHALL BE PLACED IN THE CENTER OF PLATES, USING A NEAT HOLE. NO NOTCHING ALLOWED. 2" DIAMETER HOLES IN THE CENTER OF A 2X6 NOMINAL PLATE, MAX.

HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".

LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED, NOT DRIVEN, INTO PLACE.

HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT NOT LARGER THAN THE BASE OF THE THREADS.

STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. STANDARD CUT WASHERS MAY BE USED IN ALL CASES EXCEPT SILL PLATES AND WOOD LEDGERS AGAINST CONCRETE AND MASONRY WHICH SHALL BE:

BOLT OR LAG SCREW DIAMETER	STEEL PLATE WASHER SIZE
1/2" TO 3/4"	3" X 3" X 1/4"
7/8" TO 1"	4" X 4" X 3/8"

BOLTS, LAG SCREWS AND WOOD SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT TIME OF COMPLETION OF THE JOB.

(S) INDICATES METAL FRAMING CONNECTORS MANUFACTURED BY SIMPSON STRONG TIE COMPANY (CURRENT CATALOG) AND SHALL BE INSTALLED PER SPECIFICATIONS, NO EXCEPTIONS.

SAWN LUMBER LEGEND

CONTINUOUS BLOCKING

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

STRUCTURAL NOTES & DETAILS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
OREGON
JEFFREY T. SCHMITT
DIGITAL SIGNATURE
PRELIMINARY

Project number	2017015
Date	12/8/17
Drawn by	Author
Checked by	Checker

S02

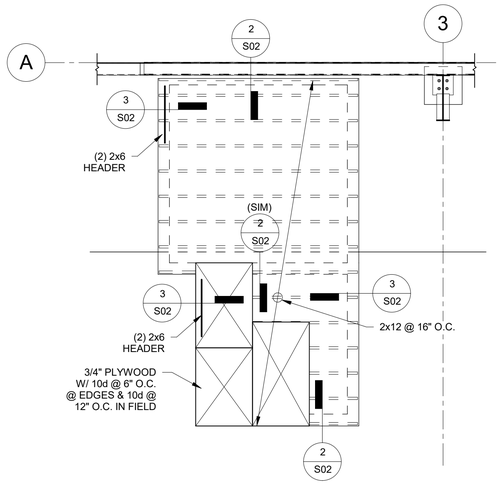
Scale: As indicated

12/8/2017 12:00:46 PM

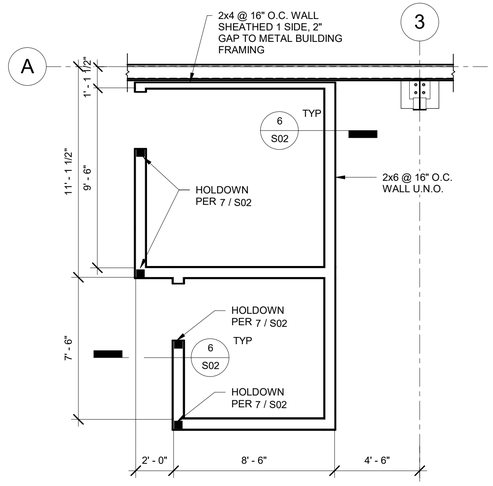
SPREAD FOOTING SCHEDULE

MARK	FOOTING SIZE			BTM OF FTG ELEV.	FOOTING REINFORCING				PEDASTAL or THK EDGE HEIGHT "H2"	PEDASTAL REINFORCING							BASE PLATE ANCHOR RODS			HAIRPIN REINF.		INFORMATION			BEARING TYPE
					BOTTOM BARS		TOP BARS																		
	LENGTH "L"	WIDTH "W"	THK "H1"		LONG DIR.	SHORT DIR.	LONG DIR.	SHORT DIR.		VERT. BARS**	LENGTH "L2"	WIDTH "W2"	HOOK TYPE	HOOP SIZE	# OF TOP HOOPS	SPACING OF ADDITIONAL HOOPS "Hs"	ANCHOR DIAMETER	ASTM ROD GRADE & HEAD TYPE	EMBED. LENGTH "E"	WASHER REQUIREMENT	HP SIZE	LEG "Lhp"	REF. DETAIL	# OF PLCS	NOTES	
F-1	9' - 0"	9' - 0"	1' - 6"	96' - 6"	(9) #5	(9) #5	(9) #5	(9) #5	2'	(12) #5	20"	12"	C	#4	2	10" O.C.	7/8"	ASTM F1554 GR. 36 W/ HEAVY HEX	20"		#5	10'	7/S102	10	PEDESTAL PER PLAN & 6/S102	
F-2	8' - 0"	8' - 0"	1' - 6"	96' - 6"	(8) #5	(8) #5	(8) #5	(8) #5	2'	(4) #5	16"	16"	C	#4	2	10" O.C.	7/8"	ASTM F1554 GR. 36 W/ HEAVY HEX	20"		#5	6'	7/S102	4	PEDESTAL PER PLAN & 5/S102	

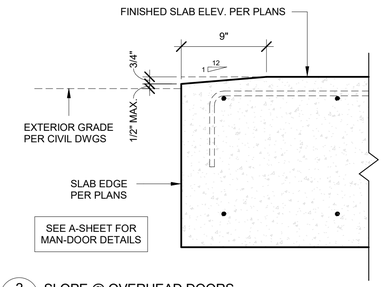
**NOTE: PROVIDE ANCHORAGE @ DOOR POSTS PER 3 / S12 .



5 / S11 ROOF @ RR/OFFICE
1/4" = 1'-0"



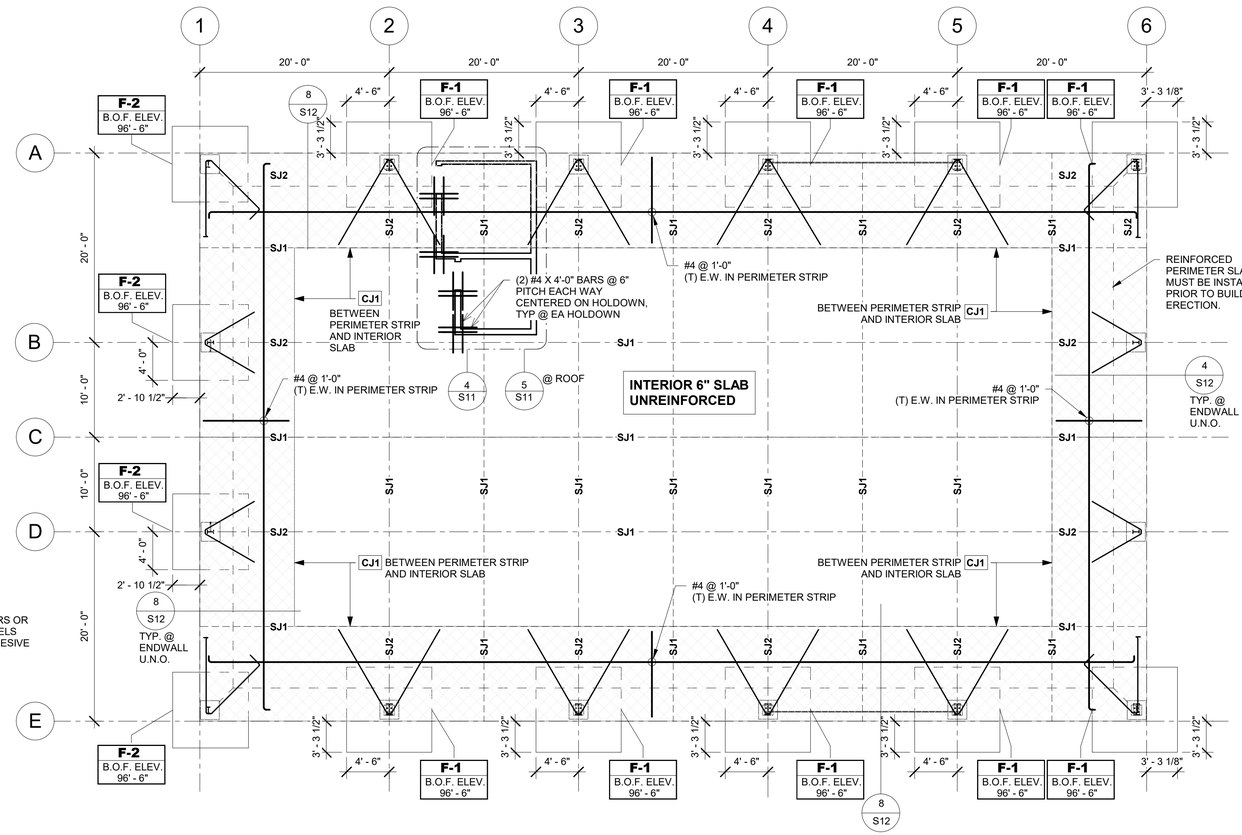
4 / S11 FLOOR @ RR/OFFICE
1/4" = 1'-0"



2 / S11 SLOPE @ OVERHEAD DOORS
1 1/2" = 1'-0"

SLAB ON GRADE:
4,500 PSI @ 28-DAY, 6" THICK. #4 @ 12" O.C.E.W. TOP BAR 2" CLEAR OF TOP OF SLAB AT PERIMETER FOOTING. 6" UNREINFORCED SLAB INSIDE OF PERIMETER CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN AND SLAB JOINTING & DOWEL PLAN TO E.O.R. PRIOR TO CONSTRUCTION FOR APPROVAL. PROVIDE CRUSHED ROCK FILL UNDER SLAB PER. PROVIDE UNDERSLAB VAPOR BARRIER ASTM E1745 CLASS A.

3 / S11 SLAB JOINTS LEGEND
1 1/2" = 1'-0"



NOTE: BUILDING FOUNDATIONS TO BE CONFIRMED W/ ACTUAL PEMB REACTIONS PRIOR TO CONSTRUCTION.

1 / S11 FOUNDATION PLAN
1/8" = 1'-0"

S-SHEETS ARE FOR BID PURPOSES ONLY. DRAWINGS WILL BE REVISED WHEN METAL BUILDING FOUNDATION REACTIONS ARE PROVIDED BY CONTRACTOR. FOOTING SIZES, ELEVATIONS AND DIMENSIONS MAY BE ADJUSTED PER THE BID DOCUMENTS.

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

FOUNDATION & SLAB PLAN

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

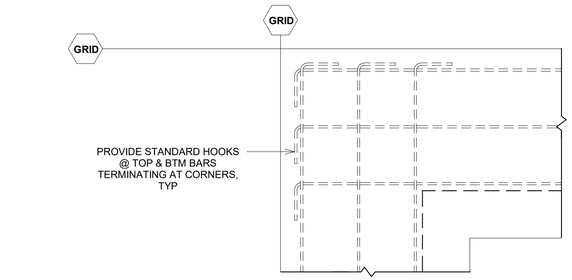
REGISTERED PROFESSIONAL ENGINEER
OREGON
JEFFREY T. SCHOTT
PRELIMINARY

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	Checker

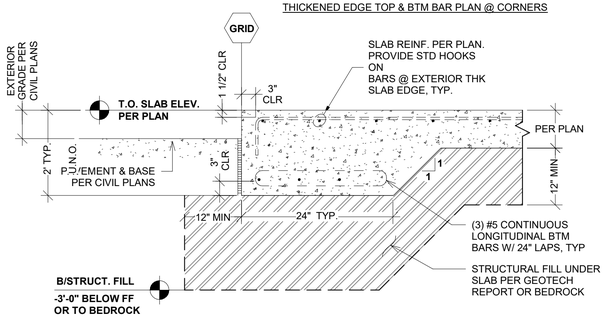
S11

Scale: As indicated

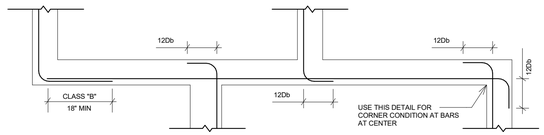
12/8/2017 12:44:43 PM



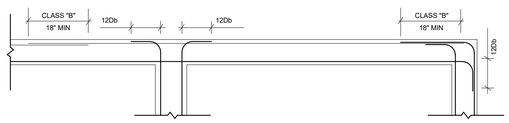
THICKENED EDGE TOP & BTM BAR PLAN @ CORNERS



8 S12 THICKENED SLAB EDGE
3/4" = 1'-0"

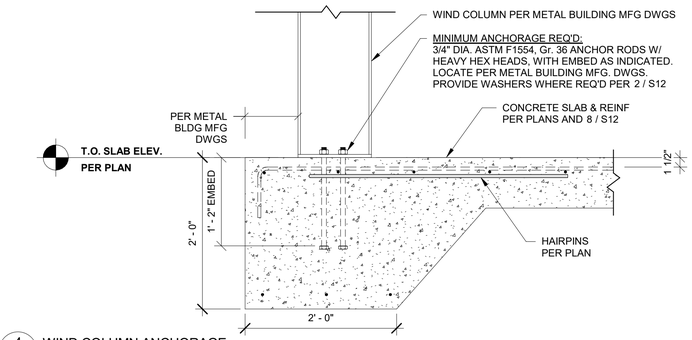


SINGLE LAYER - BARS AT ONE FACE OR CENTER

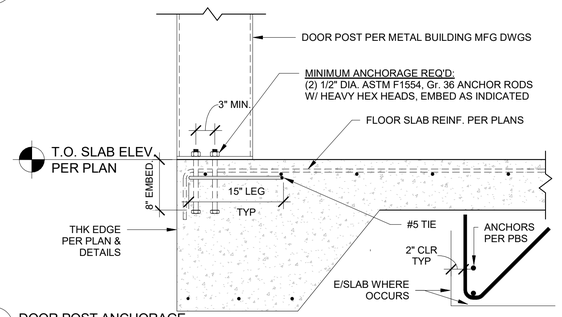


DOUBLE LAYER

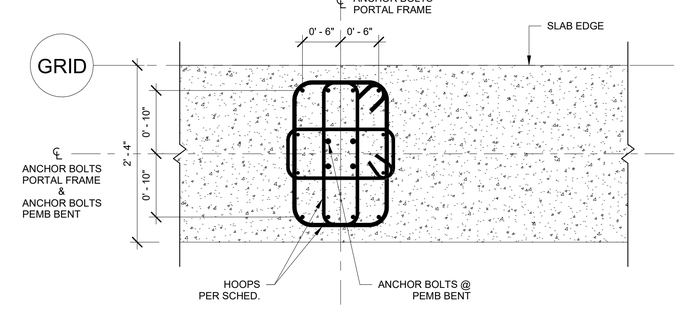
5 S12 REINFORCING BAR SPLICES
1/2" = 1'-0"



4 S12 WIND COLUMN ANCHORAGE
1" = 1'-0"

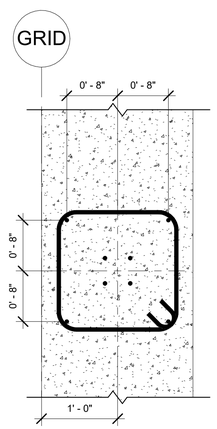


3 S12 DOOR POST ANCHORAGE
1" = 1'-0"



7 S12 PEDESTAL @ PEMB FRAME
1" = 1'-0"

S-SHEETS ARE FOR BID PURPOSES ONLY. DRAWINGS WILL BE REVISED WHEN METAL BUILDING FOUNDATION REACTIONS ARE PROVIDED BY CONTRACTOR. FOOTING SIZES, ELEVATIONS AND DIMENSIONS MAY BE ADJUSTED PER THE BID DOCUMENTS.

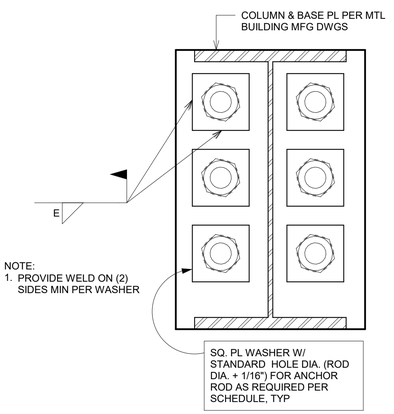


6 S12 PEDESTAL @ END WALL BRACED FRAME
1" = 1'-0"

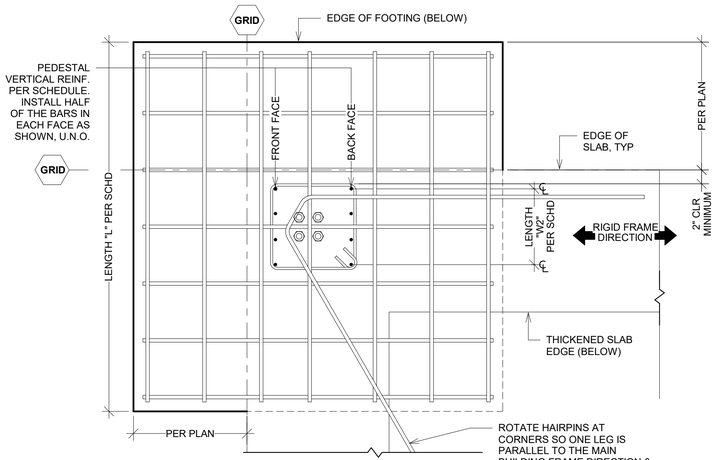
ANCHOR ROD WASHER SCHEDULE

ROD DIA.	REGULAR HOLE DIA.	MAX OVERSIZED HOLE DIA.	SQUARE PL WASHER SIZE	PL WASHER THICKNESS	REQ'D FILLET WELD SIZE "E"
5/8"	3/4"	1"	2" X 2"	1/4"	3/16"
3/4"	7/8"	1 5/16"	2" X 2"	1/4"	3/16"
7/8"	1"	1 9/16"	2 1/2" X 2 1/2"	5/16"	3/16"
1"	1 1/8"	1 13/16"	3" X 3"	3/8"	3/16"
1 1/8"	1 1/4"	1 15/16"	3" X 3"	1/2"	1/4"
1 1/4"	1 3/8"	2 1/16"	3" X 3"	1/2"	1/4"
1 3/8"	1 1/2"	2 3/16"	3 1/2" X 3 1/2"	1/2"	1/4"
1 1/2"	1 5/8"	2 5/16"	3 1/2" X 3 1/2"	1/2"	5/16"
1 3/4"	1 7/8"	2 3/4"	4" X 4"	5/8"	3/8"
2"	2 1/8"	3 1/4"	5" X 5"	3/4"	3/8"

NOTES:
1. WHERE HOLES IN BASE PL ARE STANDARD, ASTM F436 ROUND WASHERS MAY BE USED INSTEAD OF PLATE WASHERS FOR RODS UP TO 1-1/2" IN DIAMETER. FOR RODS OVER 1 1/2" DIAMETER, ASTM F436 ROUND WASHERS WITH 5/16" MINIMUM THICKNESSMAY BE USED. WASHERS SHALL FULLY COVER REGULAR SIZE HOLES.
2. WHERE HOLES EXCEEDING REGULAR DIAMETER, UP TO THE MAXIMUM PERMITTED OVERSIZED HOLE, SHALL BE COVERED WITH AN ASTM A36 STEEL SQ. PL WASHER OF THE SIZE INDICATED, AND THE WASHER SHALL BE WELDED TO THE BASE PLATE PER THE SCHEDULE, UNLESSS OTHERWISE NOTED.
3. WELD FILLER METAL SHALL BY Fy = 70 KSI
4. WELDING TO ANCHOR RODS IS PROHIBITED UNLESS AUTHORIZED BY E.O.R.

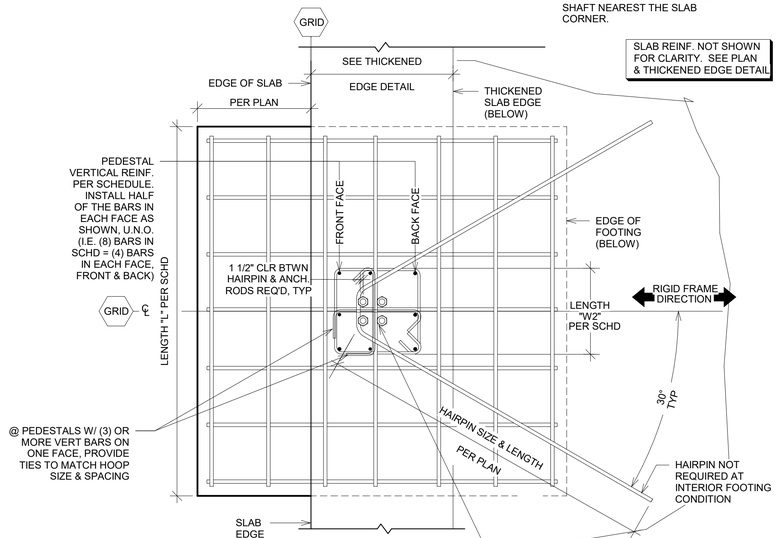


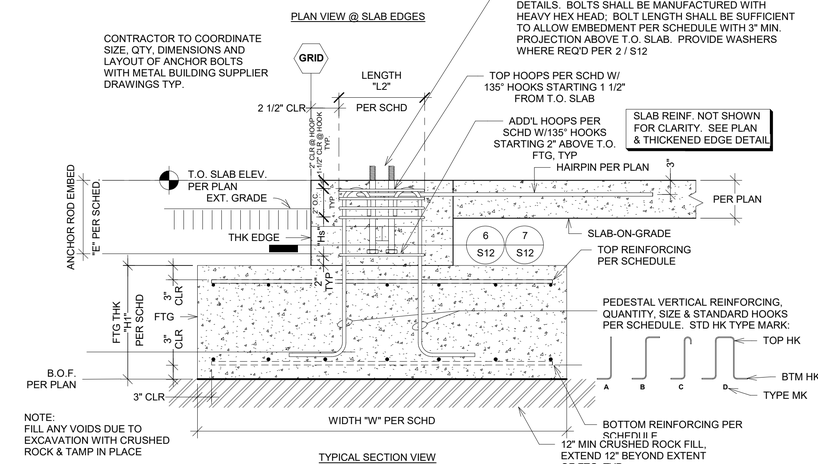
2 S12 ANCHOR ROD WASHER REQ'TS
3" = 1'-0"



PLAN VIEW @ SLAB CORNERS

SLAB REINF. NOT SHOWN FOR CLARITY. SEE PLAN & THICKENED EDGE DETAIL





TYPICAL SECTION VIEW

1 S12 TYP. SPREAD FOOTING DETAIL
3/4" = 1'-0"

PILLAR CONSULTING GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

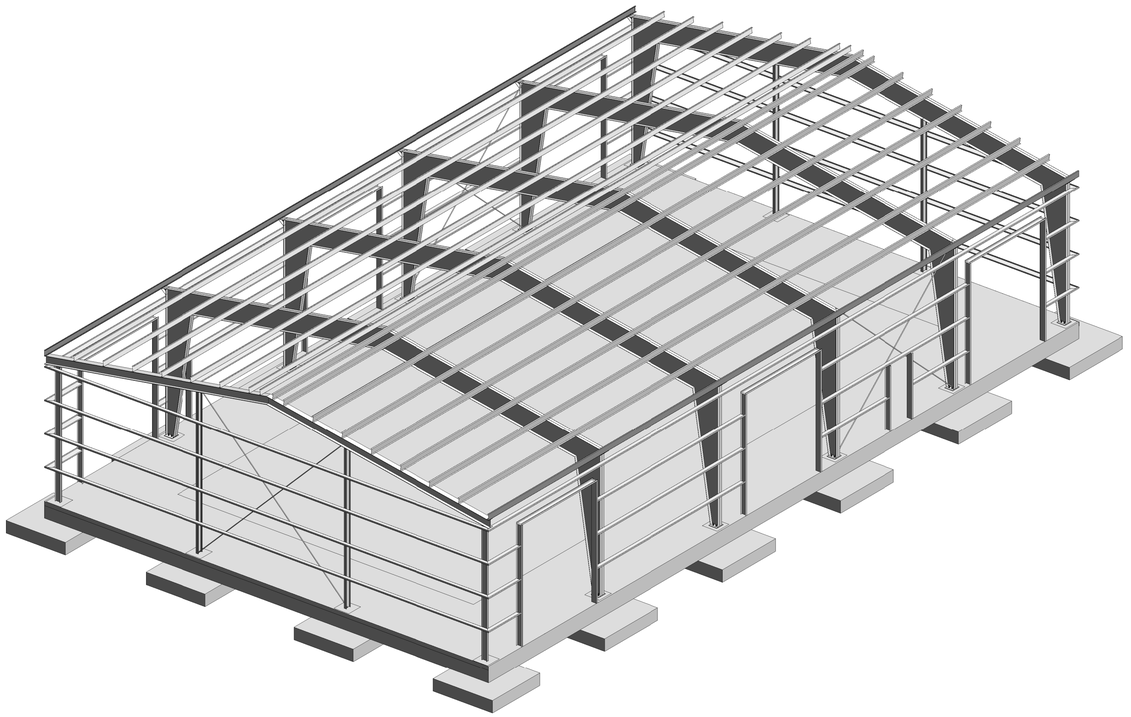
FOUNDATION DETAILS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
OREGON
JEFFREY T. SCHMITT
DIGITAL SIGNATURE
PRELIMINARY

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS
	S12
Scale	As indicated

12/8/2017 12:00:47 PM



2 MB01 CONCEPTUAL PRIMARY FRAMING ELEMENTS

BASIC DESIGN CRITERIA

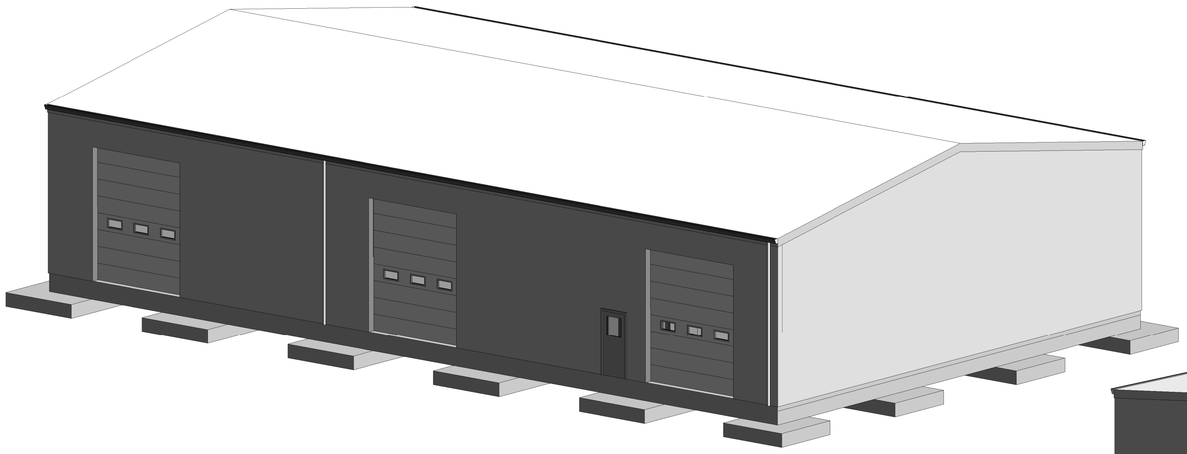
BUILDING CODE: 2014 OREGON STRUCTURAL SPECIALTY CODE.
ASCE 7-10

LOCATION (APPROX.:)	45.7195 N LAT -120.1771 W LONG ARLINGTON, OR
RISK CATEGORY:	II
ROOF DEAD LOAD:	PER MANF. + 2 PSF FOR INSULATION
MECH. & COLLATERAL LOAD:	7 PSF
ROOF LIVE LOAD (MIN.):	20 PSF
SNOW LOAD (Pg):	12 PSF
SNOW LOAD (Pf) (MIN. BALANCED):	20 PSF
SNOW LOAD CRITERIA:	Is=1.0; Ct=1.1; Ce=1.0
(SEE SNOW LOAD ANALYSIS FOR OREGON, 4TH ADDITION)	
WIND:	120 MPH (2014 OSSC FIG1609A) EXPOSURE C; Kzt = 1.33 PARTIALLY ENCLOSED
SEISMIC:	SEISMIC DESIGN CATAGORY D SITE CLASS D Sds: 0.423 Sd1: 0.248 I: 1.0

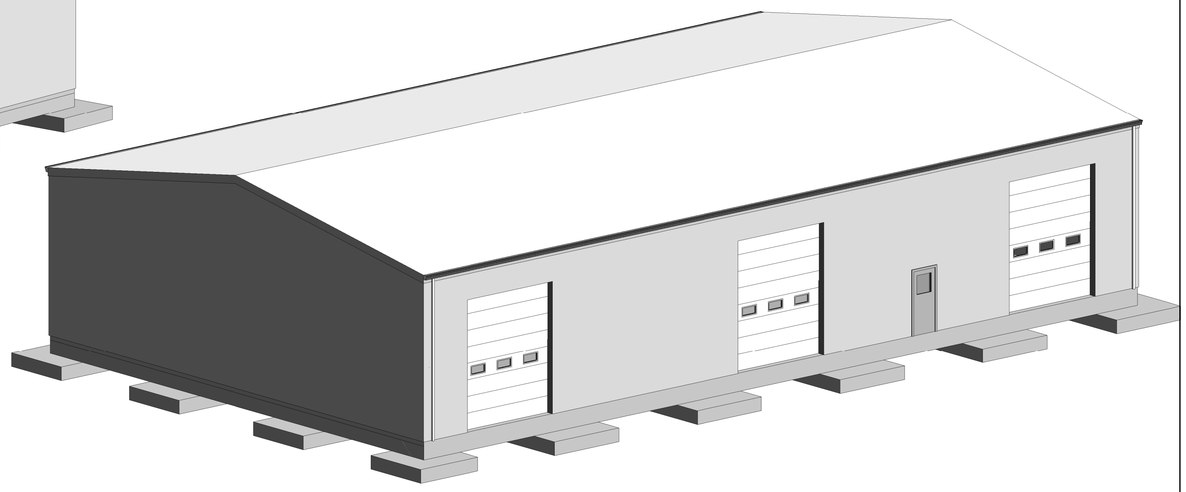
SPECIAL REQUIREMENTS:
--RIGID FRAMES AT GL 6 SHALL BE DESIGNED AS EXPANDABLE END-WALL FOR FUTURE BUILDING. FRAME DOES NOT NEED TO ACCEPT FUTURE BUILDING LOAD, BUT WIND POSTS, GIRTS, & SIDING ARE TO BE REMOVEABLE.
--METAL BUILDING MFR. TO SUPPLY (4) EXTRA MAN-DOOR FRAMING ASSEMBLIES (JAMBS, CLIPS, & TRIM) FOR FUTURE INSTALLATION BY OWNER.

COLORS:
1. ROOF: MANF. WHITE (TO BE SELECTED FROM STD COLOR)
2. MAIN BODY: MANF. BEIGE (TO BE SELECTED FROM STD COLOR)
3. TRIM: BROWN (TO BE SELECTED FROM STD COLORS)
   -GUTTERS, GABLE TRIM, CORNER TRIM TO MATCH TRIM COLOR
   -DOWNSPOUTS, J-TRIM, DOOR TRIM TO MATCH BODY COLOR
   -ROOF CAP TO MATCH ROOF COLOR

INSULATION:
-ROOF: FULL DEPTH SYSTEM R-30 W/TESTED PEFORMANCE OF U<=0.039 BTU/HR/SF/F TYP W/R=3.5 THERMAL BREAK. PROVIDE CLASS I VAPOR BARRIER ON HEATED SIDE.
-WALL: FULL DPETH SYSTEM R=25 W/TESTED PERFORMANCE OF U<=0.056 BTU/HSF/F FOR GIRT SPACING W/MIN. CLASS I OR II VAPOR BARRIER ON HEATED SIDE OF WALL. PROVIDE THERMAL BREAK ON EXTERIOR GIRT FACE (QUICK STOP OR SNAP-R OR APPROVED)
-PERFORMANCE TEST TO BE PER: *ASTM C-1363, "Standard Test Method for the Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus".*
-VAPOR BARRIER: CLASS I OR II VAPOR RETARDER, WOVEN REINFORCED HDPE, WHITE IN COLOR, CLASS A (PER ASTM E84), FOR EXPOSED FINISH.



4 MB01 MB RENDERING 2



3 MB01 MB RENDERING 1

PILLAR CONSULTING GROUP, INC.

835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

METAL BUILDING NOTES

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

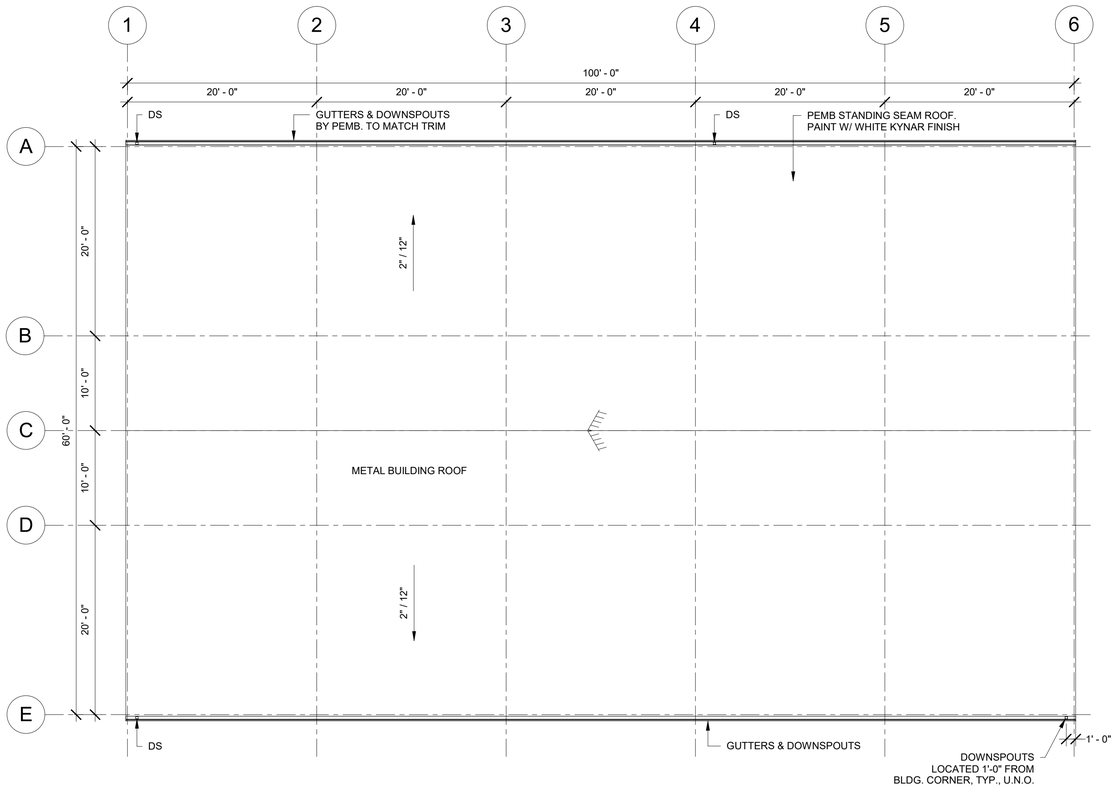
REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHEFF
RENEWAL 06/30/18

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

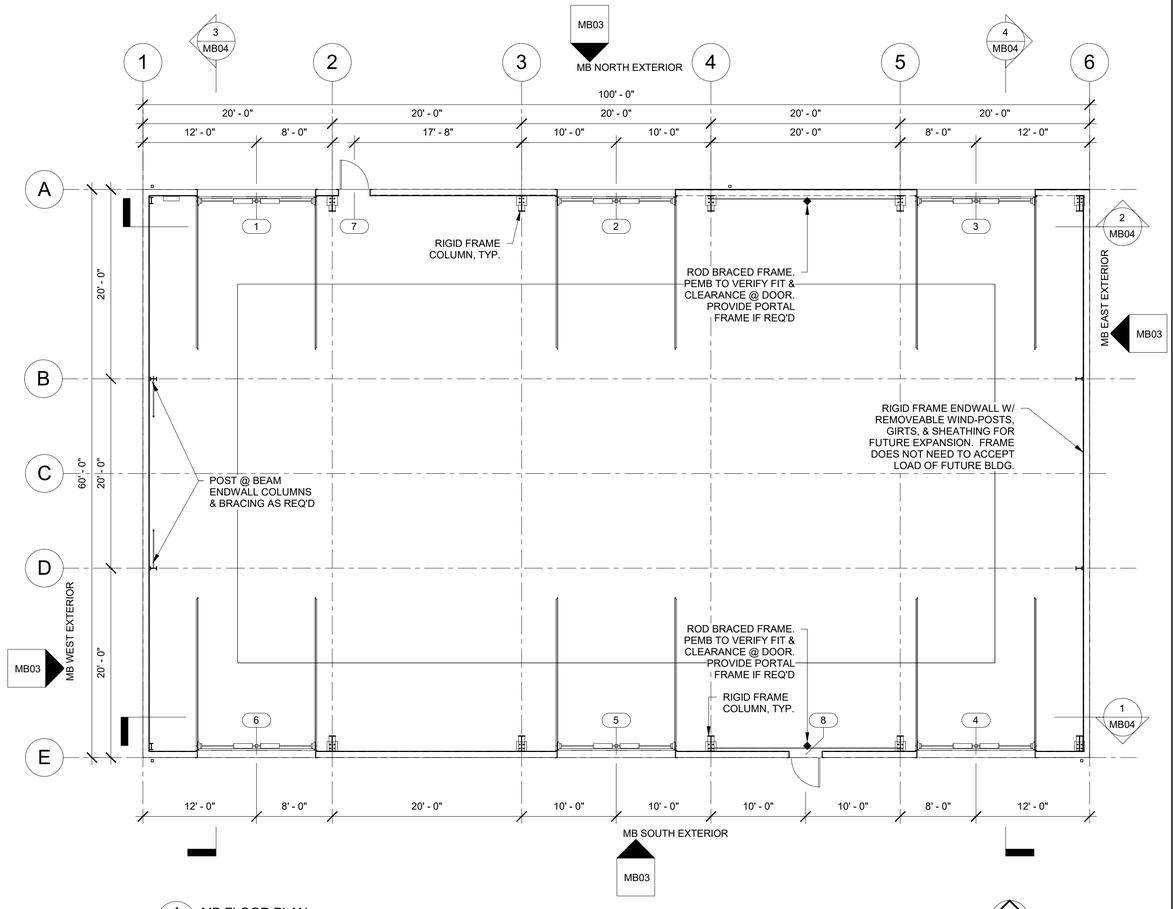
MB01

Scale	12" = 1'-0"

12/8/2017 12:00:43 PM



2 MB02 MB ROOF PLAN
1/8" = 1'-0"



1 MB02 MB FLOOR PLAN
1/8" = 1'-0"

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CORVALLIS, OR 97330
541-752-9202
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No.	Description	Date

METAL BUILDING PLANS

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
#54590PE
DIGITAL SIGNATURE
OREGON
JEFFREY T. SCHOTT

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

MB02

Scale 1/8" = 1'-0"

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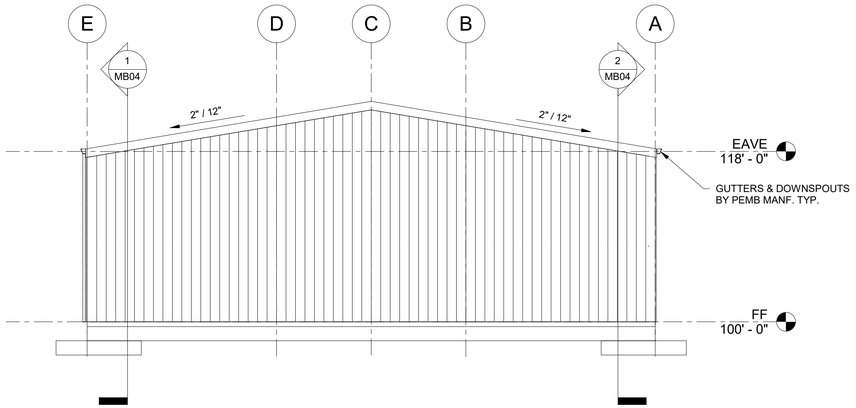
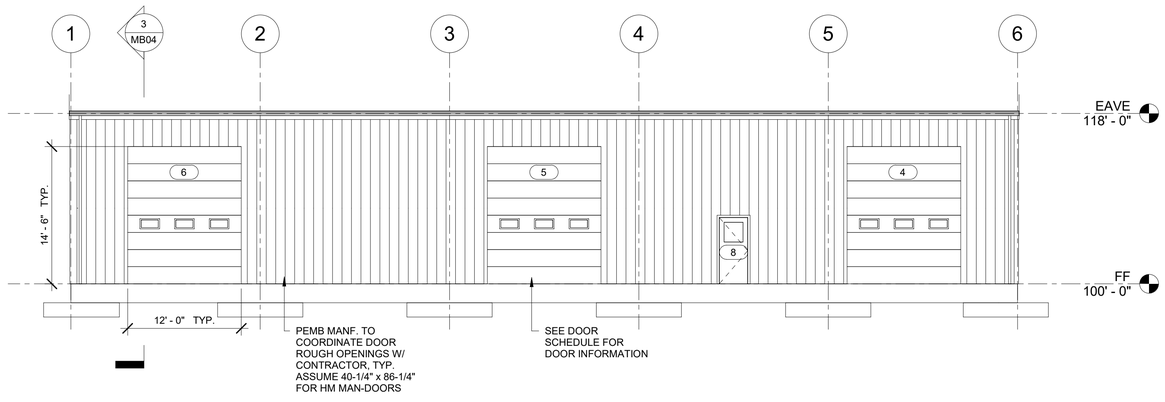
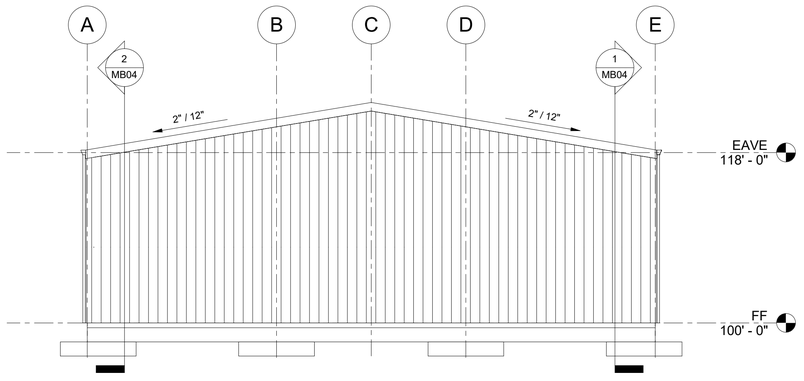


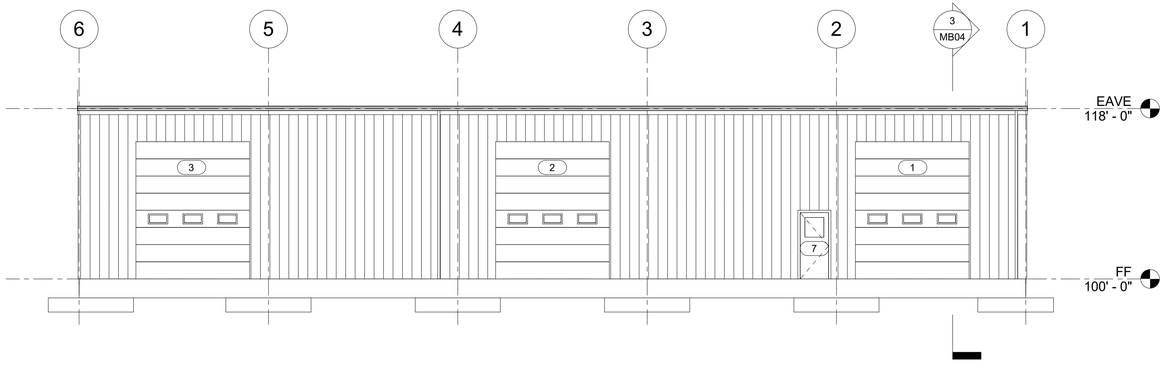
4 MB03 MB EAST EXTERIOR
1/8" = 1'-0"



2 MB03 MB SOUTH EXTERIOR
1/8" = 1'-0"



3 MB03 MB WEST EXTERIOR
1/8" = 1'-0"



1 MB03 MB NORTH EXTERIOR
1/8" = 1'-0"

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CONSULTING
GROUP, INC.
835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
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No.	Description	Date

METAL BUILDING ELEVATIONS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
51590PE
DIGITAL SIGNATURE
OREGON
12-13-2011
JEFFREY T. SCHMITT

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

MB03

Scale 1/8" = 1'-0"

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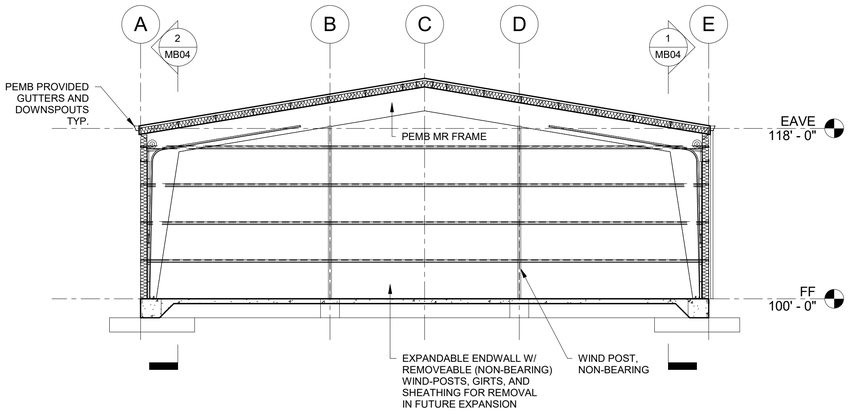

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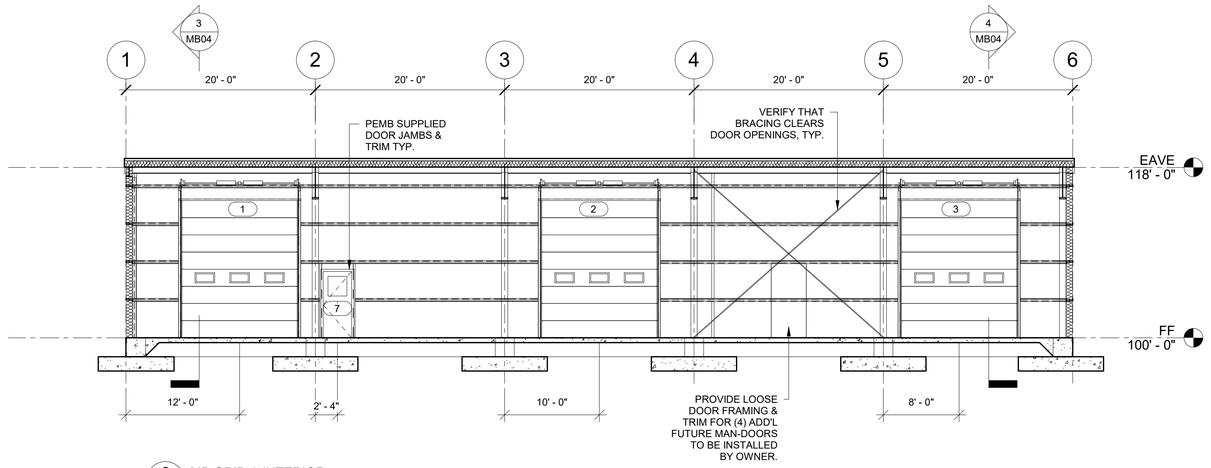

2 MB04 MB GRID A INTERIOR
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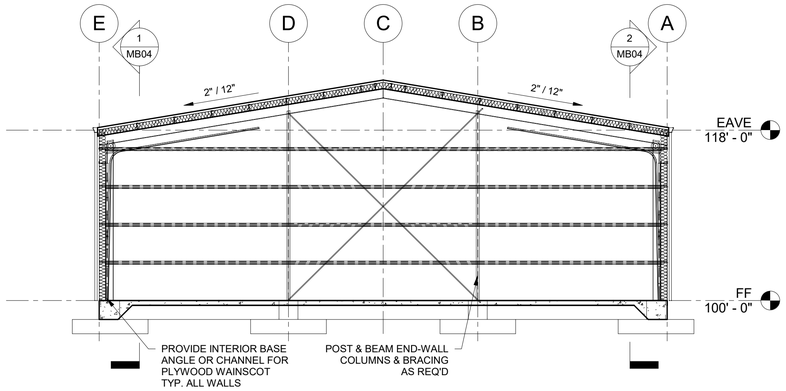

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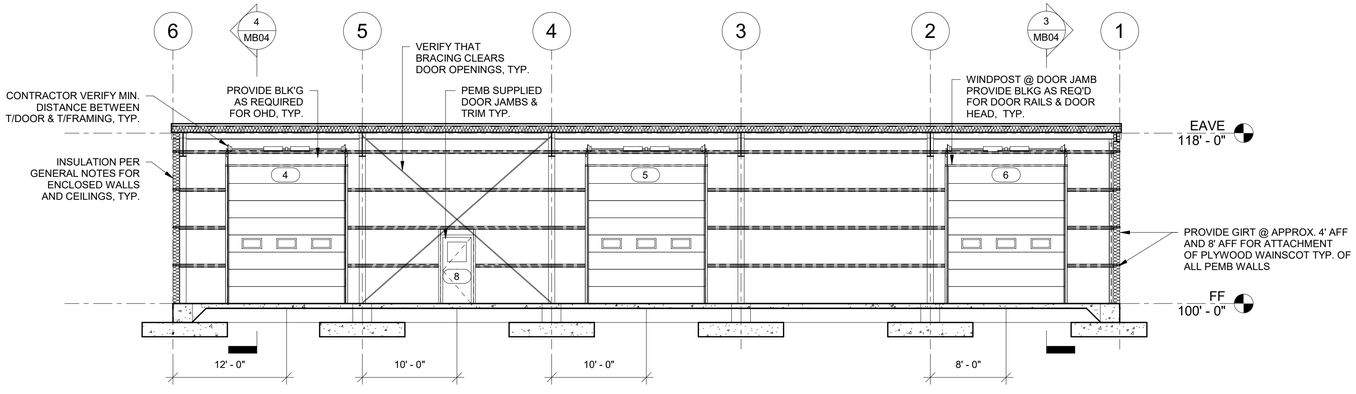

1 MB04 MB GRID E INTERIOR
1/8" = 1'-0"

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CORVALLIS, OR 97330
541-752-9202
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No.	Description	Date

METAL BUILDING SECTIONS

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JEFFREY T. SCHMITT
EXPIRES: 12-31-2018

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

MB04

Scale 1/8" = 1'-0"

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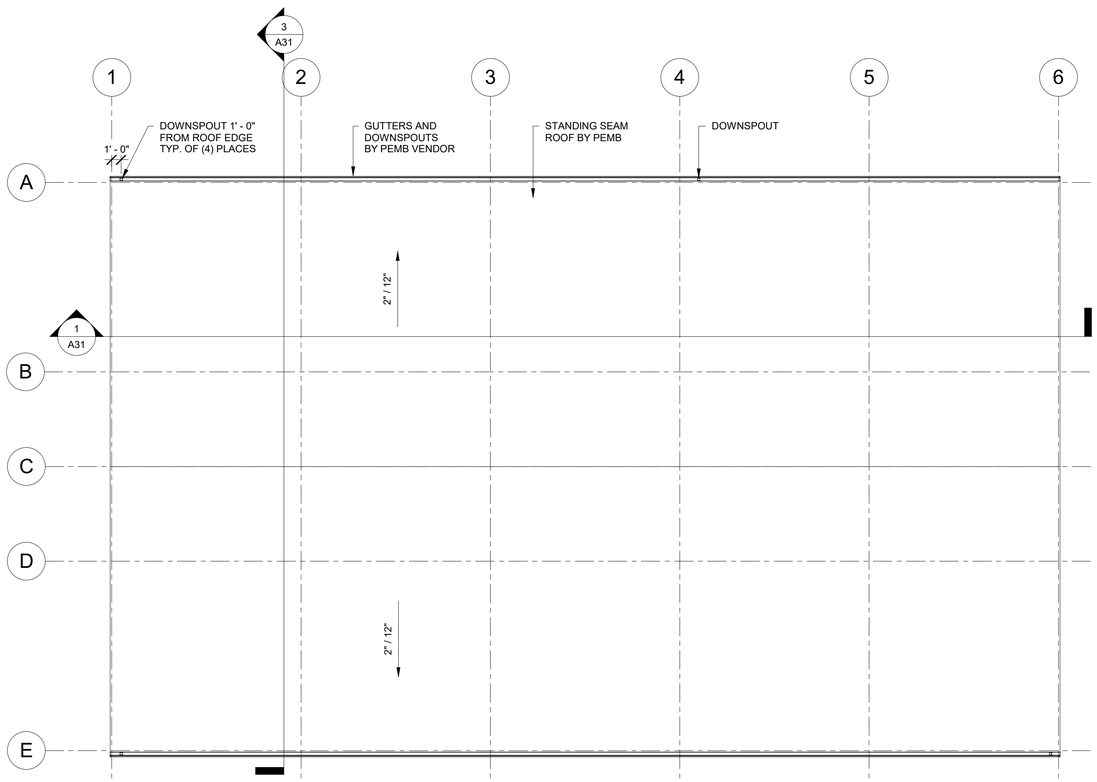
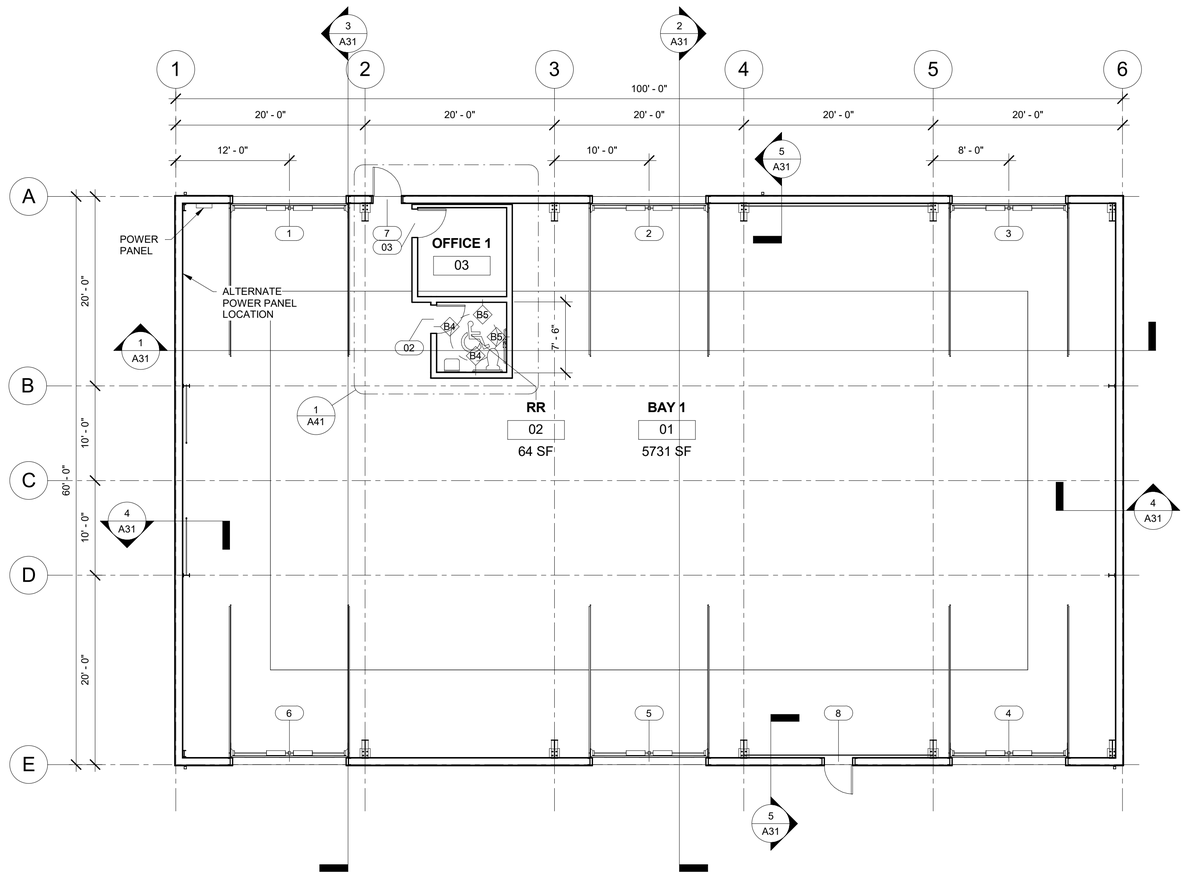


2 A11 ROOF PLAN
1/8" = 1'-0"



1 A11 FLOOR PLAN
1/8" = 1'-0"

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541-752-9202
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No.	Description	Date

FLOOR & ROOF PLAN

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
#61590PE
DIGITAL SIGNATURE
OREGON
JEFFREY T. SCHOTT

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

A11

Scale	1/8" = 1'-0"

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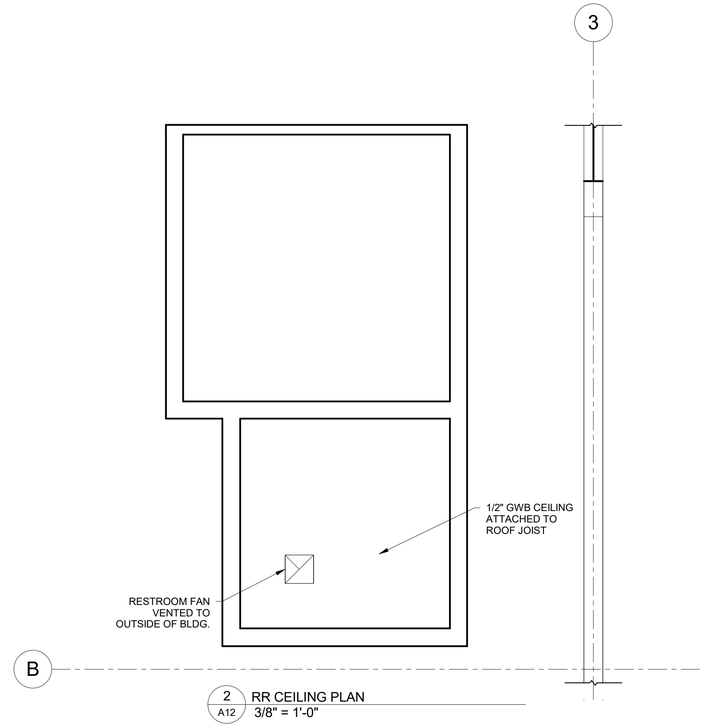


2 A12 RR CEILING PLAN
3/8" = 1'-0"

CEILING GENERAL NOTES

1. ALL SUSPENDED CEILING TO BE INSTALLED PER NWCB TECHNICAL BULLETIN 401-OREGON. CONTRACTOR TO SUBMIT CEILING TYPE & PATTERN TO OWNER FOR REVIEW & APPROVAL. CONTACT GC OR EOR FOR NWCB BULLETIN

2. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL CEILING REQUIREMENTS.

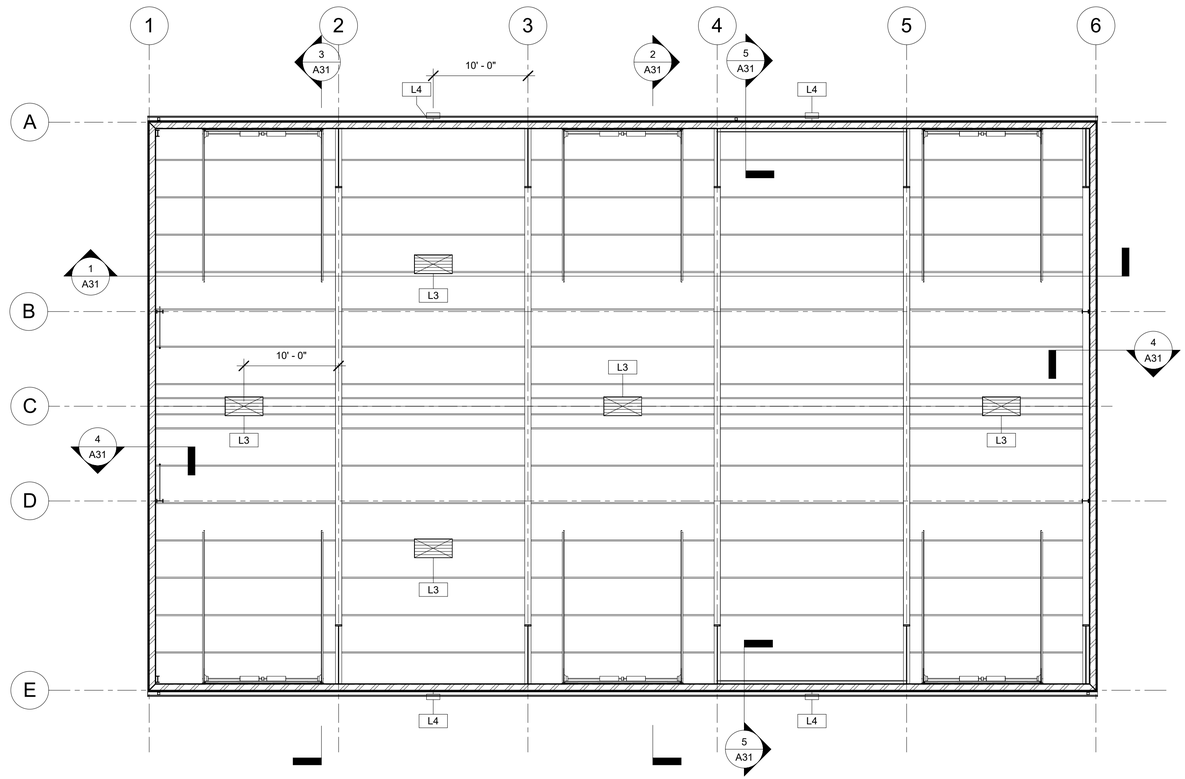
3. SEE ELECTRICAL FOR LIGHTING LAYOUT

4. SEE MECHANICAL FOR FAN & DIFFUSER LAYOUT

5. CONTRACTOR TO VERIFY AND COORDINATE FIRE SPRINKLER LAYOUT TO AVOID CONFLICTS WITH CEILING ELEMENTS INCLUDING BUT LIMITED TO LIGHT FIXTURES ECHANICAL TERMINALS, TUBE HEATERS & OHSD DOORS

REFLECTED CEILING PLAN LEGEND

SYMBOL	MK	DESCRIPTION
	L1	EMERGENCY LIGHT, W/BATTERY BACK-UP
	L2	TROFFER, 4 x 2 PARABOLIC - PER ELEC.
	L3	HIGH-BAY LED, PER ELEC.
	L4	EXTERIOR LED WALL PACK, PER ELEC.
	L5	TROFFER, 2 x 2 PARABOLIC - PER ELEC.
	L6	SURFACE MOUNT LED OR FLOURESCENT FIXTURE PER ELECTRICAL
		SUPPLY DIFFUSER PER MECH.
		EXHAUST DIFFUSER PER MECH.
		RETURN DIFFUSER PER MECH.
		SUSPENDED ACOUSTICAL CEILING , 4' X 2'
		SUSPENDED ACOUSTICAL CEILING , 2' X 2'
		SUSPENDED GWB CEILING SYSTEM
		GWB CEILING & WOOD JOIST



1 A12 CEILING PLAN
1/8" = 1'-0"

PILLAR
CONSULTING
GROUP, INC.

835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

CEILING PLANS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

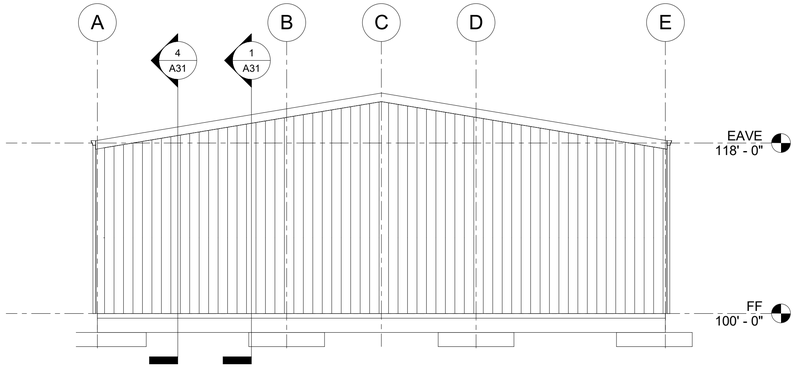
REGISTERED PROFESSIONAL ENGINEER
#51500PE
DIGITAL SIGNATURE
OREGON
JULY 13, 2004
JEFFREY T. SCHOTT
RENEWAL: 12/31/2018

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

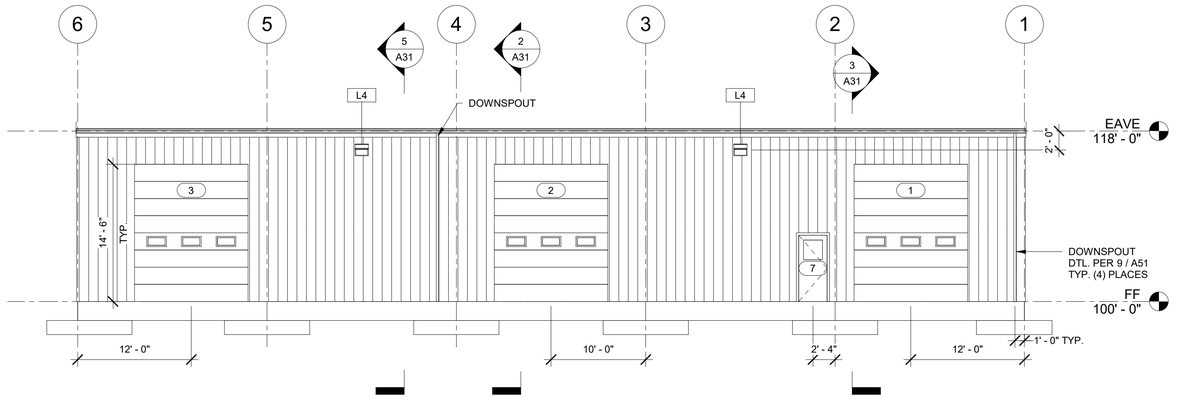
A12

Scale	As indicated

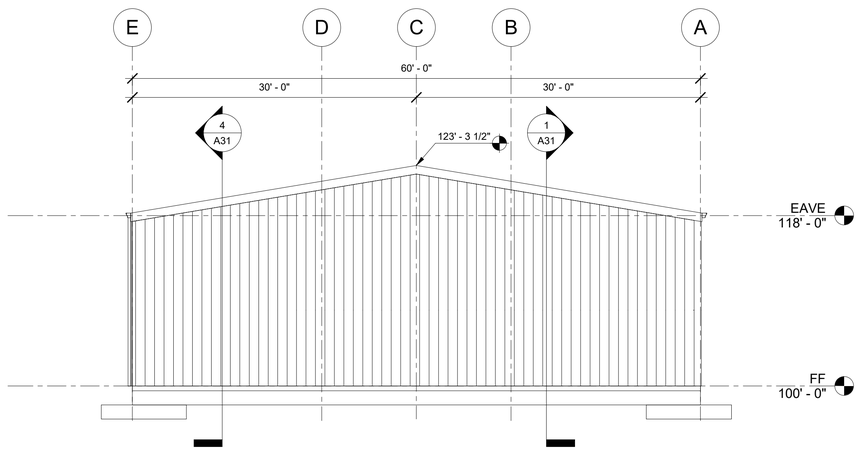
12/8/2017 12:00:38 PM



2 A21 WEST
1/8" = 1'-0"



4 A21 NORTH
1/8" = 1'-0"



1 A21 EAST
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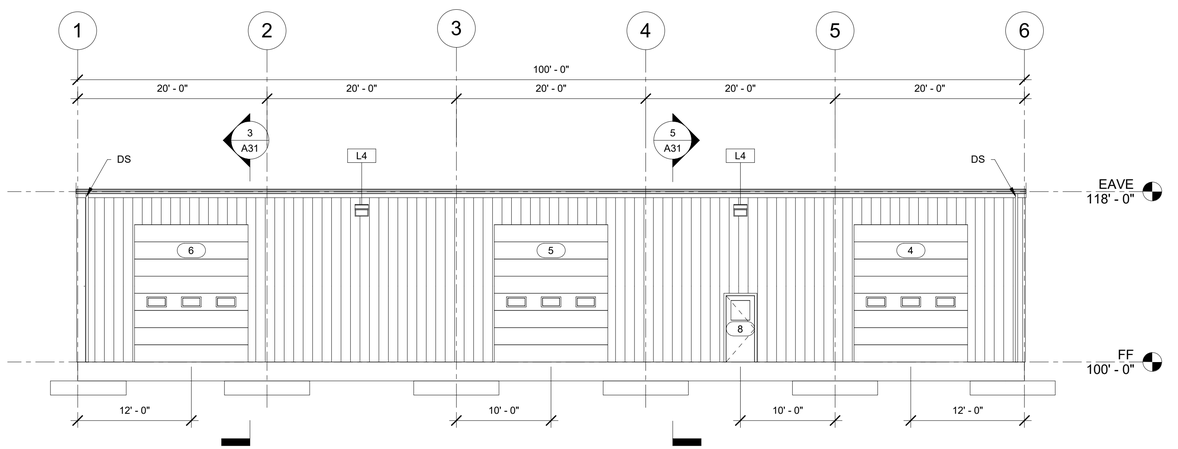


3 A21 SOUTH
1/8" = 1'-0"

PILLAR
CONSULTING
GROUP, INC.

835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
WWW.PILLAR-INC.COM

No.	Description	Date

ELEVATIONS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

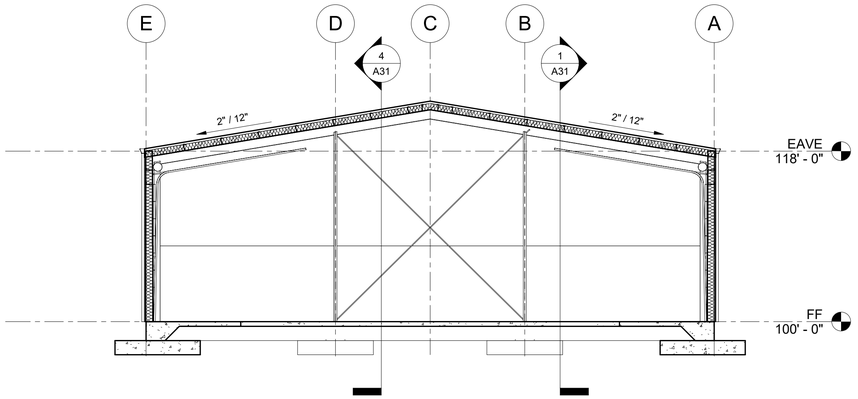
REGISTERED PROFESSIONAL ENGINEER
#51500PE
DIGITAL SIGNATURE
OREGON
JANUARY 13, 2004
JEFFREY T. SCHOTT

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

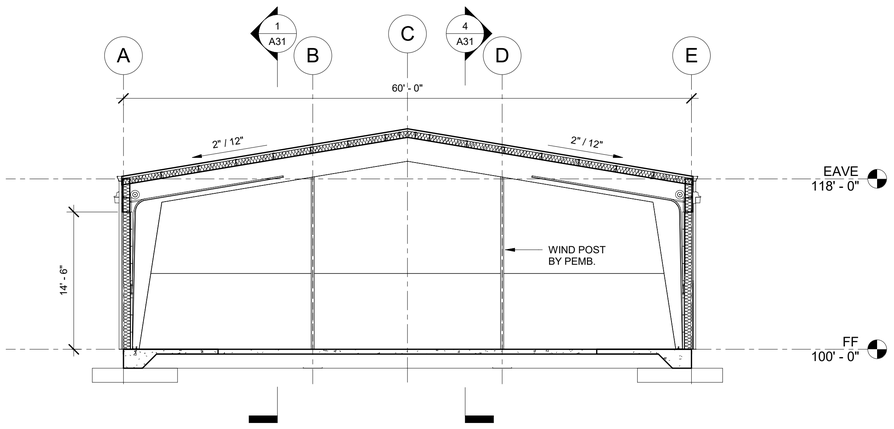
A21

Scale 1/8" = 1'-0"

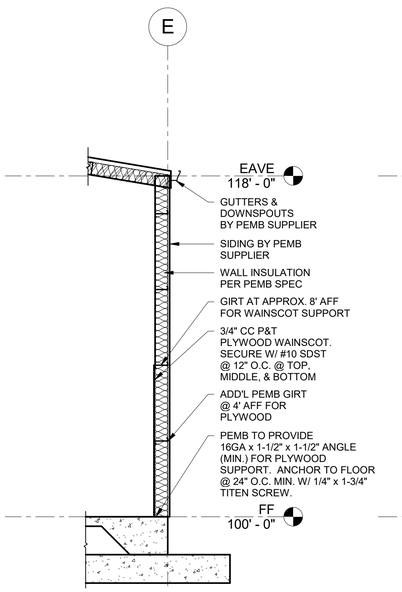
12/8/2017 12:00:38 PM



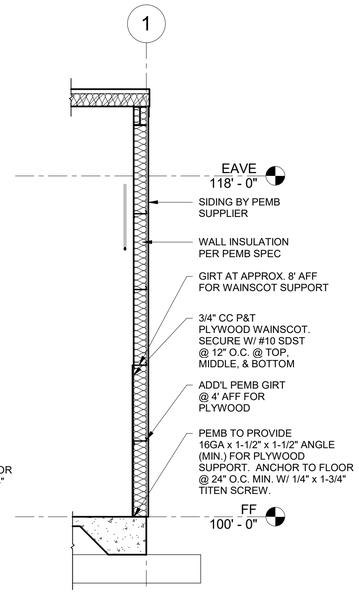
3 A31 BLDG. SECTION-WEST
1/8" = 1'-0"



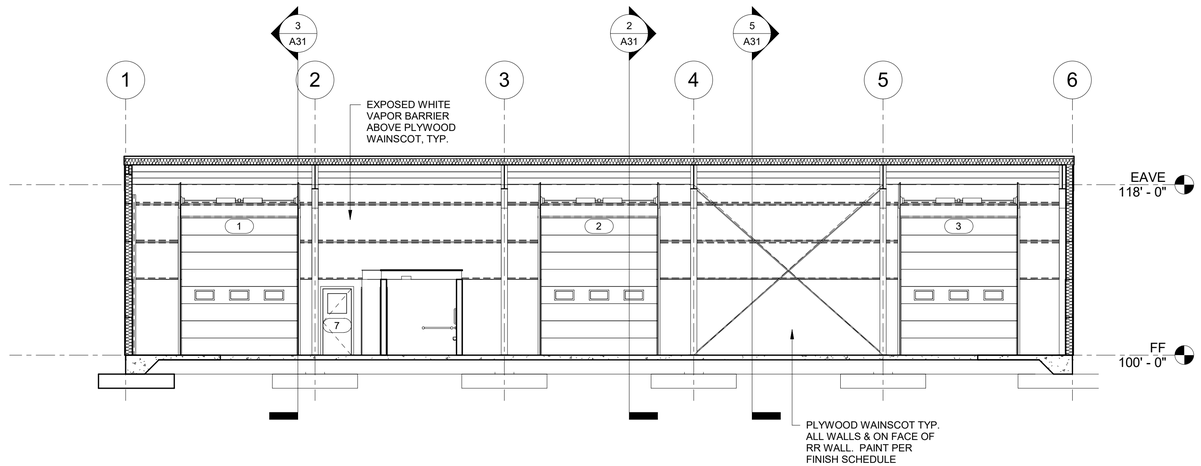
2 A31 BLDG. SECTION-EAST
1/8" = 1'-0"



5 A31 LONG WALL SECTION
1/4" = 1'-0"



4 A31 END WALL SECTION
1/4" = 1'-0"



1 A31 BLDG. SECTION- NORTH
1/8" = 1'-0"

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No.	Description	Date

SECTIONS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

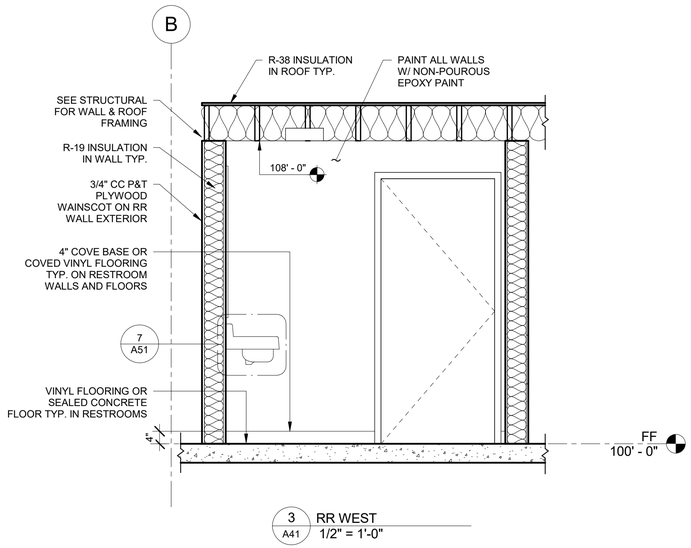
REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JAN. 13, 2004
JEFFREY T. SCHMITT

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

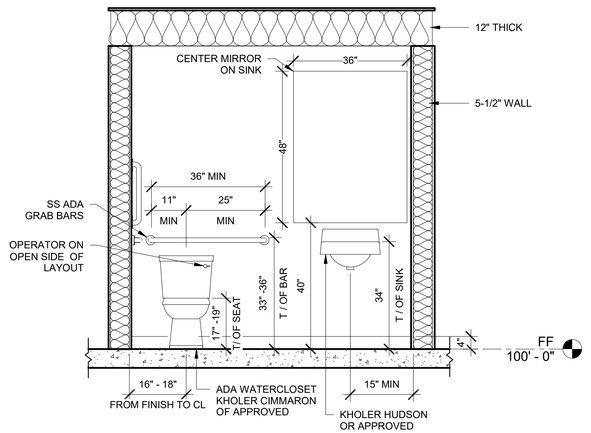
A31

Scale As indicated

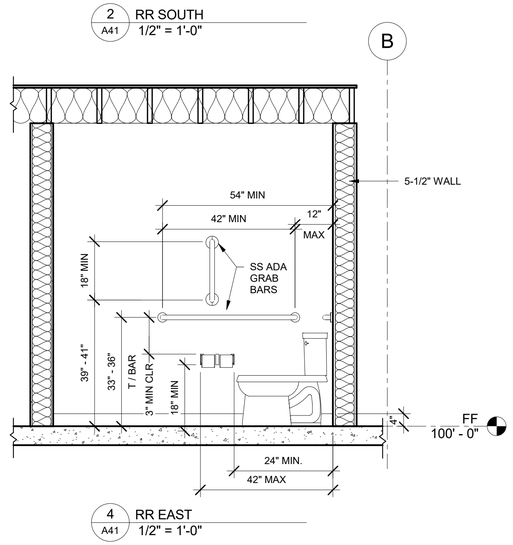
12/8/2017 12:00:39 PM



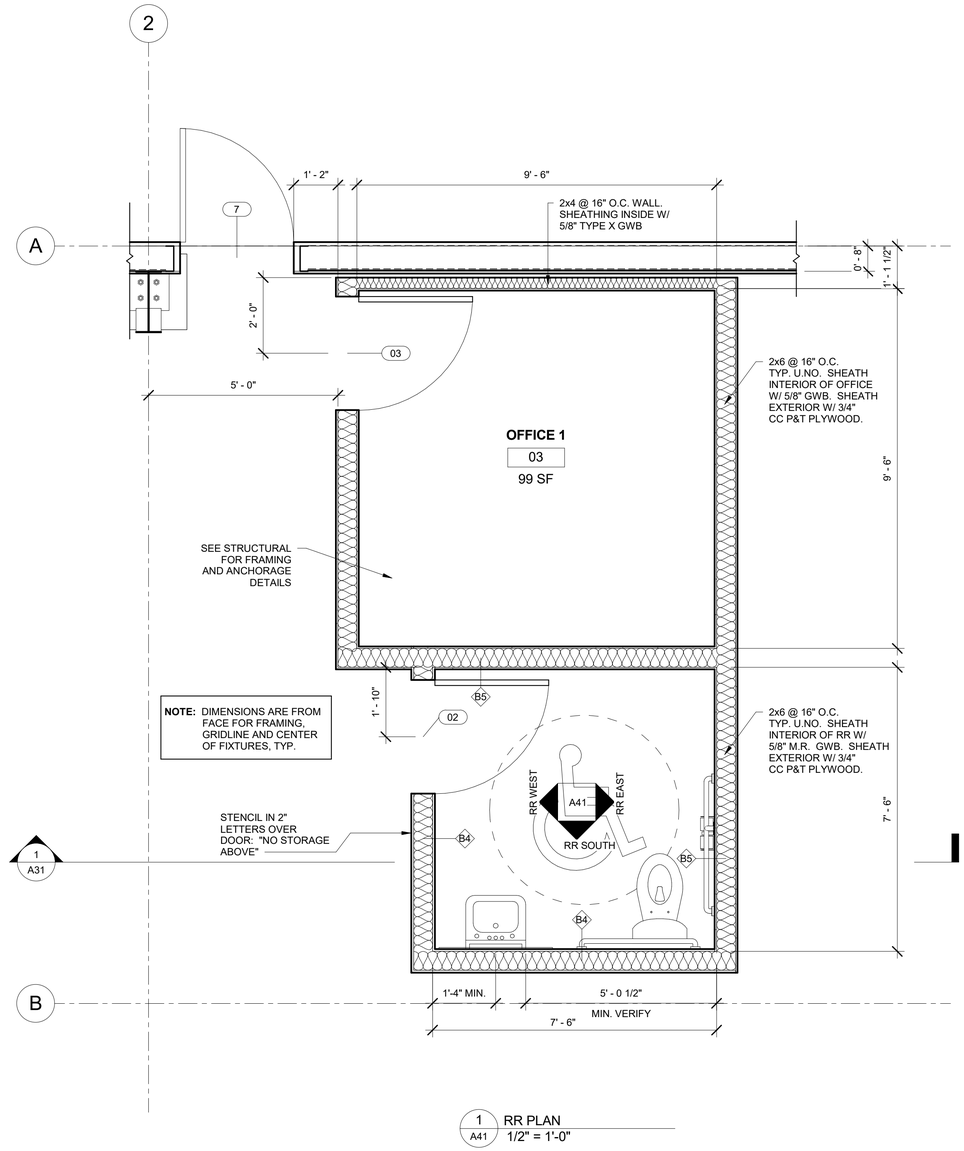
3 A41 RR WEST 1/2" = 1'-0"



2 A41 RR SOUTH 1/2" = 1'-0"



4 A41 RR EAST 1/2" = 1'-0"



1 A41 RR PLAN 1/2" = 1'-0"

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541-752-9202
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No.	Description	Date

DETAIL VIEWS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

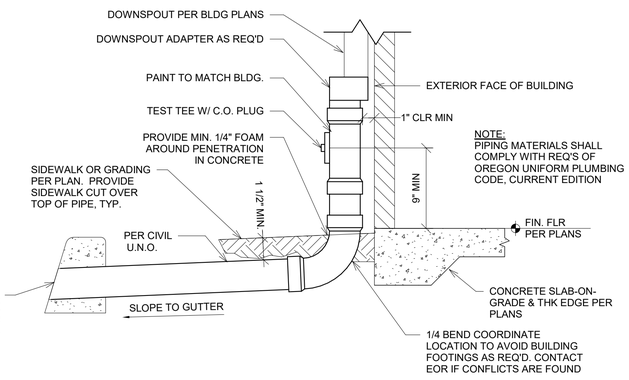
REGISTERED PROFESSIONAL ENGINEER 51590PE DIGITAL SIGNATURE OREGON JEFFREY T. SCHOTT 12-31-2018

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

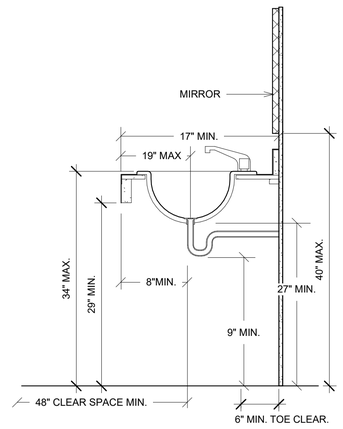
A41

Scale 1/2" = 1'-0"

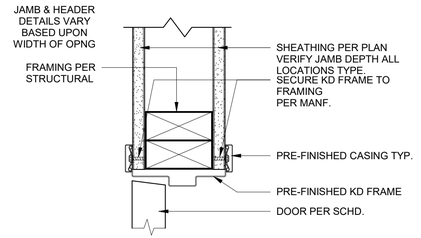
12/8/2017 12:00:39 PM



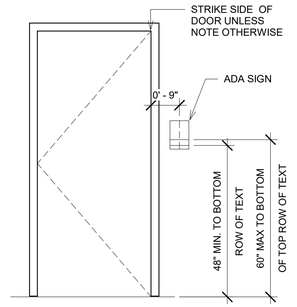
9 A51 ROOF DOWNSPOUT @ SIDEWALK WEEP
12" = 1'-0"



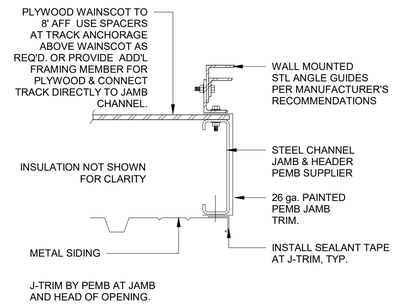
7 A51 ADA LAV TYP. DIMENSIONS
1" = 1'-0"



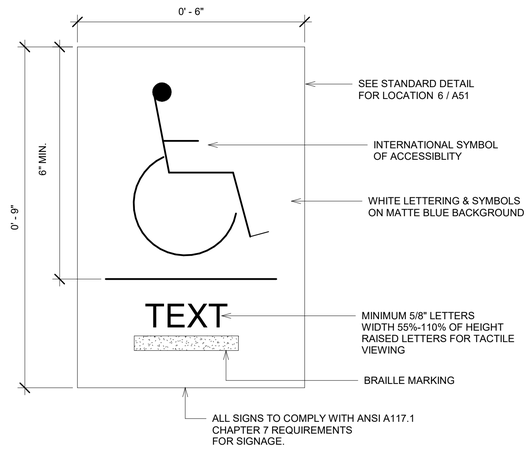
4 A51 INTERIOR PRE-FINISHED KD HM HEAD/JAMB
3" = 1'-0"



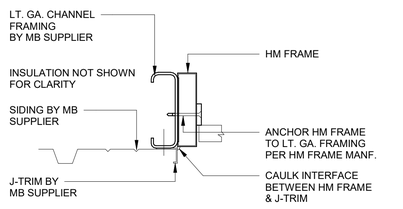
6 A51 ADA SIGN LOCATION
1/2" = 1'-0"



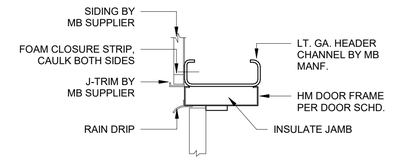
3 A51 MB OHCD JAMB/HEAD
1 1/2" = 1'-0"



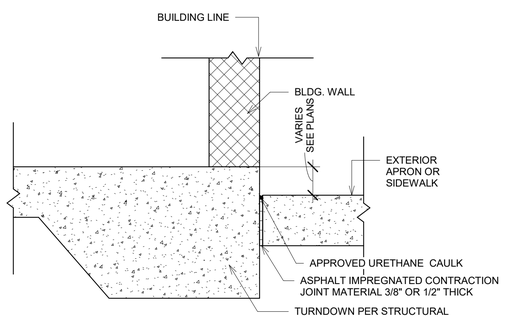
5 A51 ADA SIGN STANDARD
6" = 1'-0"



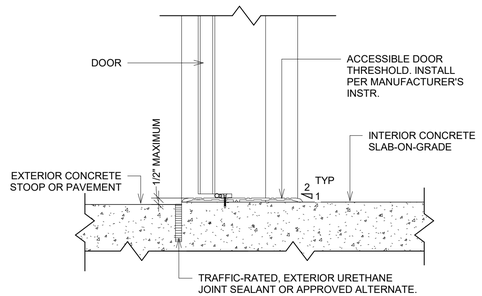
2 A51 MB MAN-DOOR JAMB
1 1/2" = 1'-0"



1 A51 MB MAN-DOOR HEAD
1 1/2" = 1'-0"



10 A51 SIDEWALK-BLDG DETAIL
1" = 1'-0"



8 A51 ACCESSIBLE THRESHOLD
1 1/2" = 1'-0"

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CORVALLIS, OR 97330
541-752-9202
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No.	Description	Date

DETAILS

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER #514590PE DIGITAL SIGNATURE OREGON JEFFREY T. SCHOTT

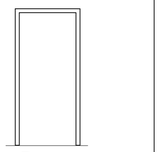
Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

A51

Scale: As indicated

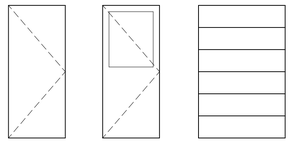
12/8/2017 12:00:40 PM

DOOR FRAME TYPES LEGEND



D
SINGLE DOOR

DOOR TYPES LEGEND

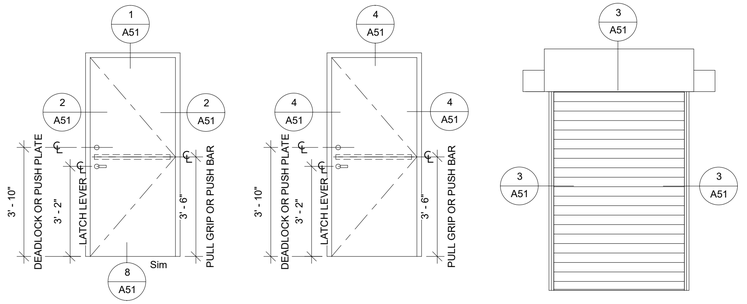


F
FLUSH PANEL

G
GLASS PANEL

OHS
OVERHEAD SECTIONAL

DOOR DETAIL GROUPS



DETAIL GROUP A
EXTERIOR DOOR

DETAIL GROUP B
INTERIOR DOOR

DETAIL GROUP F
OVERHEAD SECTIONAL

DOOR SCHEDULE

Door Number	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Assembly Max. U & SHGC	Frame Type	Frame Material	Frame Finish	Frame Detail Group	Hardware Door Hardware	Hardware Hardware Type	Hardware Key Design	Comments
1	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	1	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
2	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	3	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
02	3' - 0"	7' - 0"	0' - 1 3/4"	F	WOOD	FACTORY	U<=46	D	WOOD	FACTORY	B	4	UNISEX RESTROOM	N/A	
3	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	3	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
03	3' - 0"	7' - 0"	0' - 1 3/4"	G	WOOD	FACTORY	U<=46	D	WOOD	FACTORY	B	5	OFFICE LOCK	CONST. CORE	PROVIDE TEMPERED INTERIOR GLAZING
4	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	3	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
5	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	3	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
6	12' - 0"	14' - 6"	0' - 2"	OHS		FACTORY	U<=0.46/ SHGC<=0.40	N/A		N/A	F	1	OHSD	N/A	CLOPAY 3200 BASIS OF DESIGN, R=9.1
7	3' - 0"	7' - 0"	0' - 1 3/4"	G	HM	PAINT	U<=0.46/ SHGC<=0.40	D	HM	PAINT	A	2	EXTERIOR ENTRANCE	EXTERIOR	PROVIDE 24"x24" NOMINAL INSULATED, TEMPERED, LOW E GLAZING
8	3' - 0"	7' - 0"	0' - 1 3/4"	G	HM	PAINT	U<=0.46/ SHGC<=0.40	D	HM	PAINT	A	2	EXTERIOR ENTRANCE	EXTERIOR	PROVIDE 24"x24" NOMINAL INSULATED, TEMPERED, LOW E GLAZING

DOOR HARDWARE GROUP SCHEDULE

GROUP	HARDWARE TYPE	HANGING DEVICE	LOCK/LATCHSET	ANSI FUNCTION	CLOSER/OPENER	STOP	HOLDER	PROTECTION	GASKETS & SEALING	THRESHOLD	MISC. HARDWARE	DOOR PAIRS	COMMENTS
1	OHSD	N/A	N/A	N/A	ELECTRIC OPERATOR						TROLLEY TYPE.		
2	EXTERIOR ENTRANCE	NRP SS HINGE	HANDSET	F-84 (UNLOCKABLE ONLY W/KEY)	CLOSER	NO	N/R	VANDAL	WEATHER GASKET	YES	RAIN DRIP		
3	OHSD	N/A	N/A	N/A	CHAIN OPENER						RAIN DRIP		
4	UNISEX RESTROOM	NPR SS HINGE	HANDSET W/PRIVACY. SINGLE MOTION UNLOCK	F-22 W/INDICATOR-MORTISE OR COORDINATED CYLINDERICAL LOCK: HAGAR 3796 OR APPROVED	NO	WALL	N/R	N/R	SILENCER	NO	INDICATOR LOCK. ADA. MUST REQUIRE ONLY ONE OPENING MOTION		
5	OFFICE LOCK	NRP SS HINGE	HANDSET	F-82	NO	NO	NO	NO	GASKET	NO	N/A		LOCKABLE OFFICE

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No.	Description	Date

DOOR SCHEDULE

PORT OF ARLINGTON FLEX-BUILDING
801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
#51590PE
DIGITAL SIGNATURE
OREGON
JEFFREY T. SCHUTT

Project number	2017015
Date	12/8/17
Drawn by	Author
Checked by	Checker

A61

Scale As indicated

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FINISH SCHEDULE

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

NOTES:
CT-1: CARPET
SC: SEALED CONCRETE. SEAL W/APPROVED SILOXANE SEALER
BC: BARE CONCRETE
PC-1: EPOXY COATED CONCRETE PER SPECIFICATION
SV-1: SHEET VINYL. TBD
VT-1: VINYL TILE: TBD
VCB: 4" VINYL COVE BASE-Color from standard pallet.
WCB: WOOD COVE BASE
SVB-1:COVED SHEET VINYL COVED 6" UP WALLS. METAL TRIM
PCB-1: COVED EPOXY PAINT SYSTEM, 6" UP WALL
HPL-X: HIGH PRESSURE LAMINATE TO 4' AFF. PAINT ABOVE. HPL FINISH:
FRP-X: FRP TO 8' AFF OR AS NOTED, PAINT COLOR PER SCHEDULE ABOVE. FRP FINISH: EMBOSSED
PT-1: PAINT COLOR A, FLAT
PT-2: PAINT COLOR A, SEMI-GLOSS, EPOXY ENAMEL
PT-3: PAINT COLOR B, SATIN
PT-4: PAINT COLOR B, SEMI-GLOSS, EPOXY ENAMEL
PT-5: PAINT COLOR C, FLAT
PT-6: PAINT COLOR C, SEMIGLOSS
PT-7: PAINT COLOR D, FLAT
PT-8: PAINT COLOR D, GLOSS
PT-9: PAINT COLOR E, GLOSS
PT-10: PAINT COLOR F:TBD
PT-11: PAINT COLOR G: FLAT EXTERIOR LATEX OVER APPROVED CONCRETE PRIMER
PT-12: PAINT COLOR H: FLAT EXTERIOR LATEX OVER APPROVED CONCRETE PRIMER

PAINT COLOR A: WHITE
PAINT COLOR B: WHITE
PAINT COLOR C: MATCH PEMB TRIM COLOR
PAINT COLOR D: MATCH PEMB BODY COLOR
PAINT COLOR E: MATCH PEMB TRIM COLOR
PAINT COLOR F: TBD
PAINT COLOR G: TBD
PAINT COLOR H: TBD

ACT-1: N/A
ACT-2: N/A
ACT-3: N/A

HPL FINISH "X"
-1: TBD
-2: TBD
DOOR & TRIM COLORS: SEE SCHEDULE
-WOOD DOORS TO BE FACTORY FINISH, BIRCH, CLEAR,, SOLID CORE DOORS
-DOOR HARDWARE TO BE ANSI626/US26D IN GENERAL, AND ANSI 630/US32D FOR KNOBS AND PUSHBARS
-TIMELY FRAMES: STD BROWNTONE
EXTERIOR PAINT:

FINISH & MILLWORK NOTES

1. INTERIOR FINISH SCHEDULE ABOVE MAY BE MODIFIED BY OWNER
2. TYPICAL INTERIOR GWB WALL FINISH IS LEVEL 4 OPM ON INTERIOR OF OFFICE AND RESTROOMS
3. TYPICAL EXTERIOR FINISH ON GWB EXPOSED TO BAYS IS LEVEL 3, WITH WHITE PRIMER, NOT TEXTURED.
4. ALL RESTROOM WALLS TO BE M.R. GWB U.N.O.
5. ALL RESTROOMS TO HAVE SEALED CONCRETE FLOOR & MIN. 4" VINYL COVE BASE AROUND INTERIOR U.N.O.
6. ALL GWB TO BE 5/8" TYPE X U.N.O.

FINISH ABBREVIATIONS
-KD= KNOCK DOWN
-OPM = ORANGE PEEL-MEDIUM
-NT = NO TEXTURE
-SM = SMOOTH
-SEE GA-214-96 FOR SHEET ROCK FINISH LEVELS

CABINETS
-CABINET TO BE MAPLE, CHERRY STAIN W/SHAKER STYLE DOORS W/WIRE PULLS. COUNTERTOPS TO BE HPL-1.

CONTACT OWNER FOR COLOR SELECTIONS

Door Finish Schedule

	Frame Material	Leaf Material	Trim-interior	Trim-Exterior	Leaf-Interior	Leaf-exterior
1						
2						
02	WOOD	WOOD	FACTORY	FACTORY	FACTORY	FACTORY
3						
03	WOOD	WOOD	FACTORY	FACTORY	FACTORY	FACTORY
4						
5						
6						
7	HM	HM	PT-9	PT-9	PT-8	PT-8
8	HM	HM	PT-9	PT-9	PT-8	PT-8

ROOM FINISH SCHEDULE

Number	Name	Area	Perimeter	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Notes
01	BAY 1	5731 SF	353' - 2 7/8"	BC	N/A	PT-1/EXPOSED	EXPOSED	REQUIRES PAINTED 3/4" PLYWOOD TO 8' AFF TYP. EXPOSED VAPOR BARRIER ABOVE
02	RR	64 SF	32' - 0"	SC	VCB	OPM; PT-4	OPM; PT-4	GWB INTERIOR, 3/4" PLYWOOD EXTERIOR TO MATCH BAY FINISH
03	OFFICE 1	99 SF	39' - 8 7/8"	SC	VCB	OPM	OPM; PT-4	SEALED FLOOR - PAINTED INTERIOR
Grand total: 3		5893 SF	424' - 11 3/4"					

PILLAR
CONSULTING
GROUP, INC.

835 NW 23RD
CORVALLIS, OR 97330
541-752-9202
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No.	Description	Date

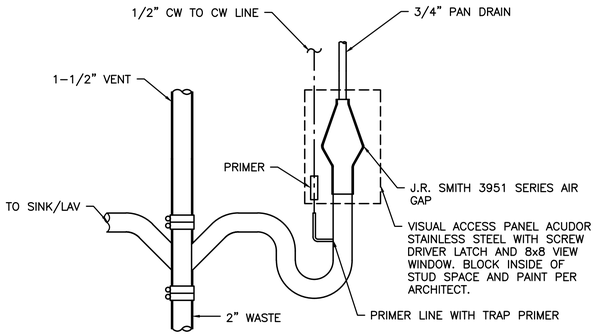
REGISTERED PROFESSIONAL ENGINEER
#54590PE
DIGITAL SIGNATURE
OREGON
JULY 13, 2011
JEFFREY T. SCHMITT
RENEWS: 12/31/17

Project number	2017015
Date	12/8/17
Drawn by	JW
Checked by	JTS

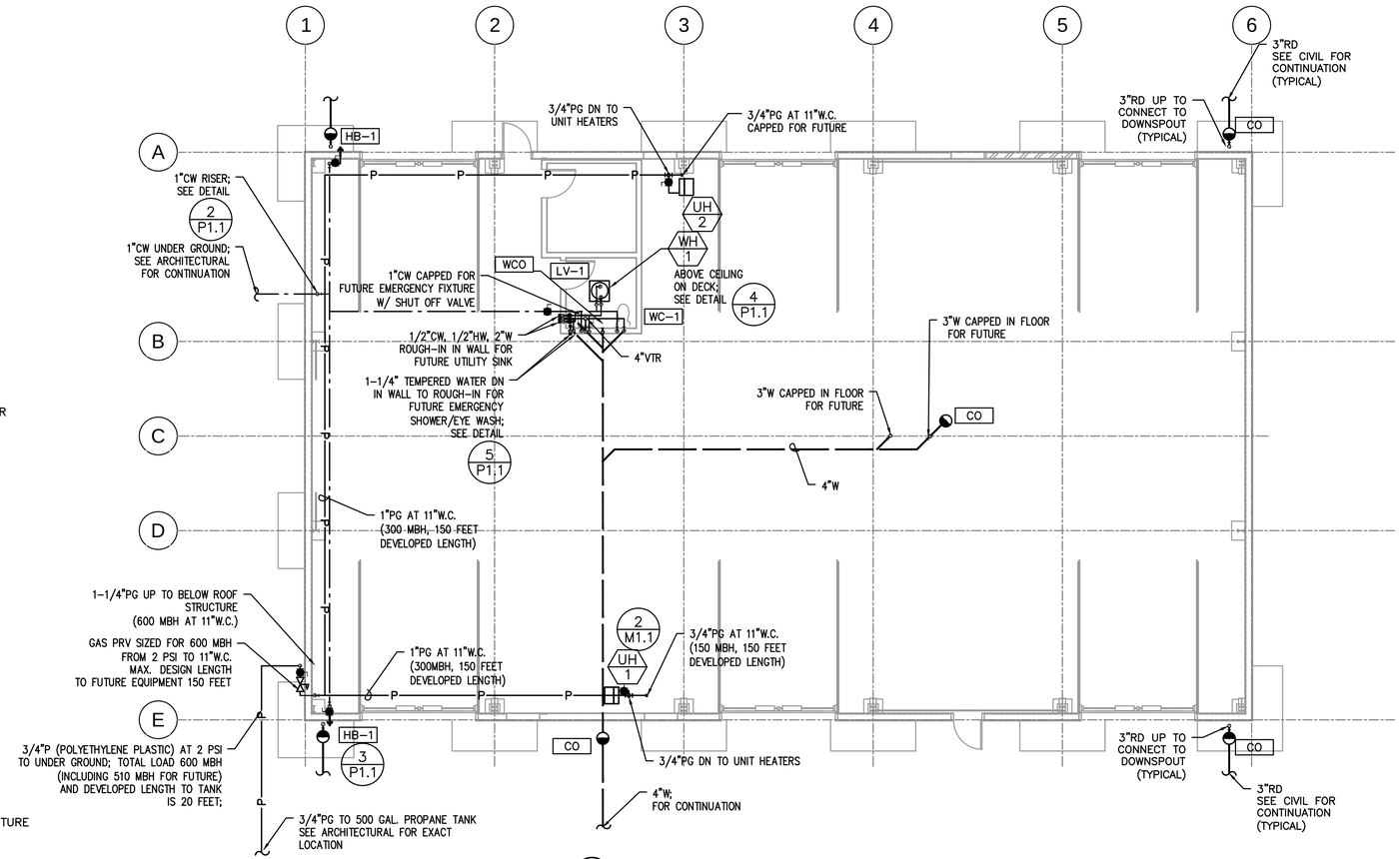
A62

Scale 12" = 1'-0"

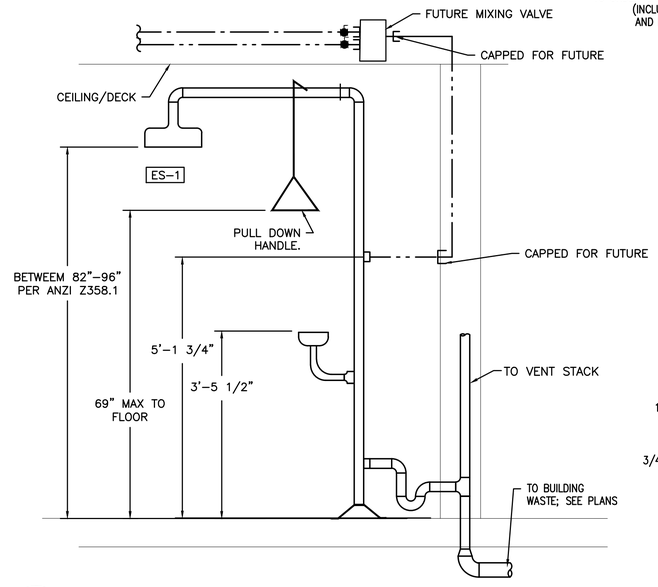
12/8/2017 12:00:40 PM



6 P1.1 FIXED AIR GAP
SCALE: DETAIL



1 M1.1 HVAC FLOOR PLAN
1/8"=1'-0"



5 P1.1 FUTURE EMERGENCY SHOWER & EYE/FACE WASH ESH-1 DETAIL
SCALE: DETAIL

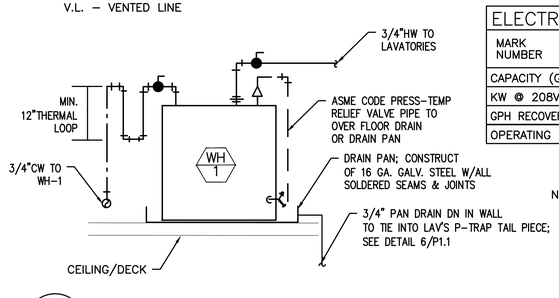
PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	REMARKS
WC-1	WATER CLOSET	3"	2"	1/2"		FLOOR MOUNT, TANK
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG, OVAL; PROVIDE MIXING VALVE PER CODE
HB-1	HOSE BIBB			3/4"		J.R. SMITH 5609
	FUTURE EMERGENCY SHOWER/EYE WASH	2"	2"	1"	1"	ROUGH IN FOR FUTURE; WASTE ROUGH IN FOR EYE WASH ONLY
	FUTURE UTILITY SINK	3"	2"	1/2"	1/2"	ROUGH IN FOR FUTURE WALL MOUNTED SINK

V.L. – VENTED LINE

ELECTRIC WATER HEATER

MARK NUMBER	WH 1
CAPACITY (GAL)	19
KW @ 208V/1 PH	4.5
GPH RECOVERY AT 80°F T-RE RISE	23
OPERATING DESIGN WEIGHT (LBS)	220

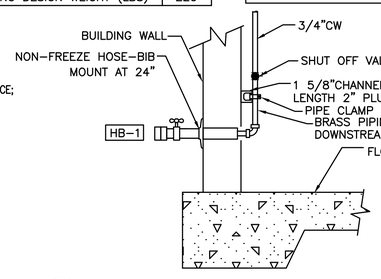


4 P1.1 WATER HEATER PIPING DETAIL
NTS

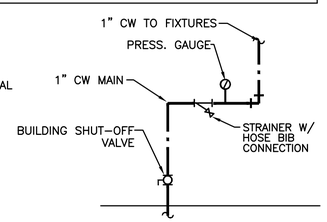
PLUMBING LEGEND

SANITARY WASTE (UNDER GROUND)	W	
SANITARY WASTE (ABOVE FLOOR)	W	
VENT	V	V V V V V
ROOF DRAIN (UNDER GROUND)	RD	RD RD
OVERFLOW DRAIN (UNDER GOUND)	OD	OD OD
COLD WATER	CW	
HOT WATER	HW	
HOT WATER RECIRC	HWR	
CONDENSATE DRAIN	CD	CD CD
PROPANE GAS	P	P P
EXISTING PIPING	(E)	

CO ---- CLEAN-OUT
WCO ---- WALL CLEAN-OUT
NTS ---- NOT TO SCALE
VTR ---- VENT THROUGH ROOF



3 P1.1 HOSE BIB DETAIL
SCALE: DETAIL



2 P1.1 DOMESTIC WATER RISER DIAGRAM
NTS

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541-752-9202
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No.	Description	Date

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CONTACT: Elena von Kaments

SCOPE FOR MEP

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 1979
JOHN A. van BLADEREN
EXPIRES: 30JUN18

Project number	2017015
Date	12/8/2017
Drawn by	EVK
Checked by	JVB

P1.1

Scale 1/8" = 1'-0"

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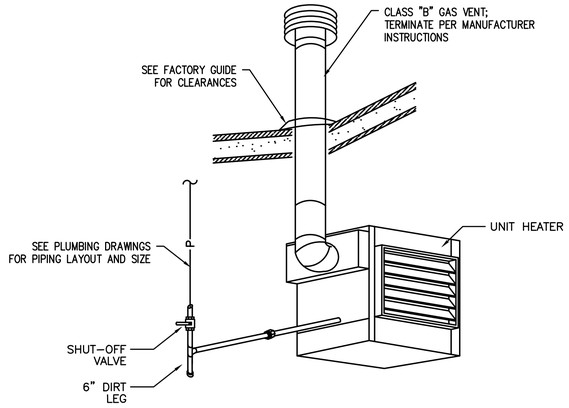
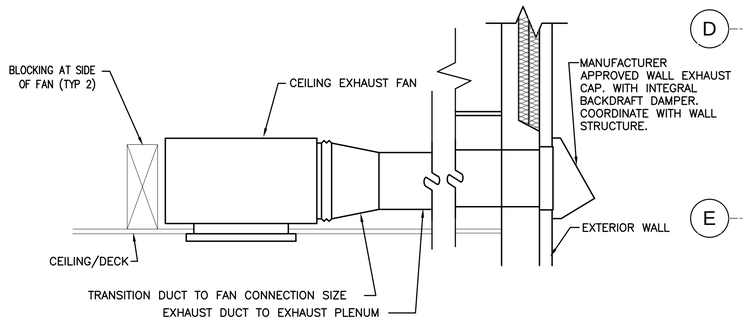
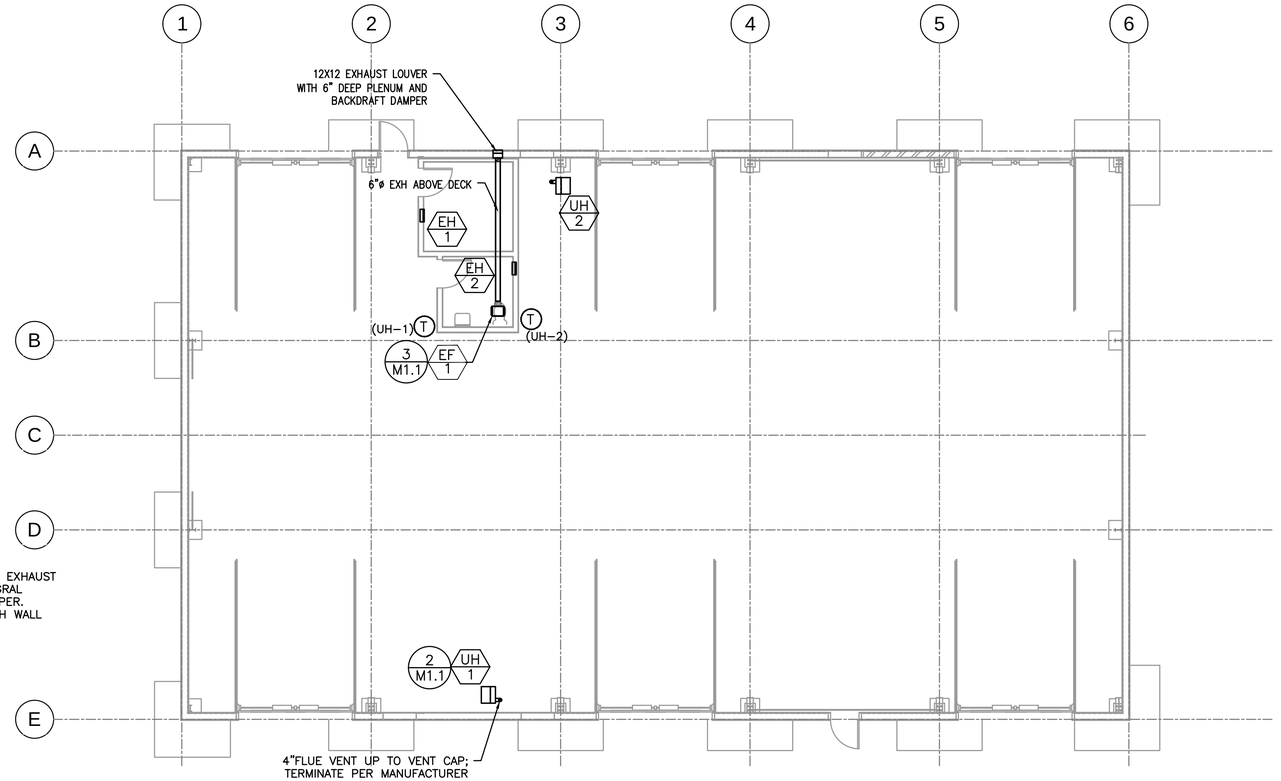


2 / M1.1 GAS FIRED UNIT HEATER
SCALE: DETAIL



3 / M1.1 CEILING EXHAUST FAN EF-1
SCALE: DETAIL



1 / M1.1 HVAC FLOOR PLAN
1/8"=1'-0"

ELECTRIC WALL HEATER		
MARK NUMBER	EH 1	EH 1
TYPE	SEMI-RECESSED	SEMI-RECESSED
SYSTEM	PUMP ROOM 125	PUMP ROOM 125
KW	1.5	1.5
CONTROLLED BY:	WALL MOUNTED THERMOSTAT	WALL MOUNTED THERMOSTAT
MOUNTING HEIGHT	12" AFF.	12" AFF.
ELECTRICAL V/PH	120/1	120/1
BASIS OF DESIGN: QMARK	AWH3150F	AWH3150F

EXHAUST FANS	
MARK NUMBER	EF 1
TYPE	CEILING
SYSTEM	TOILET ROOM
CFM	100
TOTAL SP. (IN H20)	0.3
TYPE DRIVE	DIRECT
SPEED CONTROL	YES
FAN RPM	1,100
MOTOR SIZE	21 W
CONTROLLED BY	---
INTERLOCK WITH	LIGHT
WHEEL TYPE	F.C.
BACKDRAFT DAMPER	YES
MOTORIZED DAMPER	NO
DESIGN WEIGHT (LBS)	20
MAX. SONES	1.5
ELECTRICAL V/PH	120/1

GAS UNIT HEATERS		
MARK NUMBER	UH 1	UH 2
MOUNTING	WALL HUNG	WALL HUNG
SYSTEM	WAREHOUSE	WAREHOUSE
FUEL		
TYPE	POWER VENTED	POWER VENTED
DISCHARGE	HORIZONTAL	HORIZONTAL
CFM	629	629
INPUT, BTUH	45,000	45,000
EFFICIENCY, %	83	83
CONTROL STEPS	1	1
CONTROLLED BY:	THERMOSTAT	THERMOSTAT
FAN MOTOR (HP)	0.03	0.03
FLUE VENT, INCHES	4	4
MOUNTING HEIGHT (BOTTOM)	120" AFF.	120" AFF.
DESIGN WEIGHT (LBS)	60	60
DESIGNED MODEL REZNOR:	UDAP-45	UDAP-45
ELECTRICAL V/PH	120/1	120/1

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SCOPE FOR MEP

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 1979
JOHN A. van BLADEREN
EXPIRES: 30JUN18

Project number	2017015
Date	12/6/2017
Drawn by	EVK
Checked by	JVB

M1.1

Scale	1/8" = 1'-0"

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ELECTRICAL SYMBOL LIST

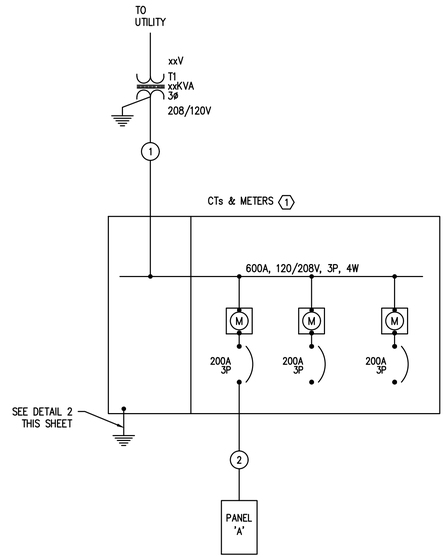
	RECESSED FLUORESCENT FIXTURE		MAGNETIC STARTER
	SURFACE OR PENDANT FLUORESCENT FIXTURE	C	CONTACTOR
	FLUORESCENT STRIP FIXTURE		DISCONNECT SWITCH, NON-FUSED
	RECESSED DOWN LIGHT	F	DISCONNECT SWITCH, FUSED
	WALL MOUNTED FIXTURE		ELECTRICAL PANEL, RECESSED
	SURFACE MOUNTED FIXTURE		ELECTRICAL PANEL, SURFACE
	EXIT SIGN		MOTOR ELECTRICAL CONNECTION
	EMERGENCY LIGHT +8'-0"		SINGLE-POINT MOTOR ELEC. CONN.
	POLE MOUNTED LUMINAIRE		PUSHBUTTON STATION
		V	FLUSH VALVE SOLENOID
	TIMECLOCK		
$	SWITCH, SINGLE-POLE +48"		FLUSH FLOOR BOX WITH POWER TELEPHONE & DATA OUTLETS
$3	SWITCH, THREE-WAY +48"		TELEPHONE OUTLET +18"
$K	SWITCH, KEY OPERATED +48"		DATA OUTLET +18"
	RECEPTACLE, DUPLEX +18"		SPRINKLER FLOW SWITCH
	RECEPTACLE, DUPLEX ABOVE COUNTER		SPRINKLER TAMPER SWITCH
	RECEPTACLE, DOUBLE DUPLEX	M	MAGNETIC DOOR HOLDER
	EQUIPMENT ELECTRICAL CONNECTION		DUCT SMOKE DETECTOR
	JUNCTION BOX		
	SPECIAL RECEPTACLE		HOMERUN TO PANEL GROUND CONDUCTOR NEUTRAL CONDUCTOR PHASE CONDUCTOR CONCEALED CONDUIT
A.F.F.	ABOVE FINISHED FLOOR		
N.L.	NIGHT LIGHT		
G.F.I.	GROUND FAULT INTERRUPTER		
GND	GROUND		1-1/4"C CONDUIT SIZE UNDERGROUND CONDUIT
W.P.	WEATHER PROOF		
U.O.N.	UNLESS OTHERWISE NOTED		CONDUIT, STUBBED & CAPPED

FEEDER SCHEDULE

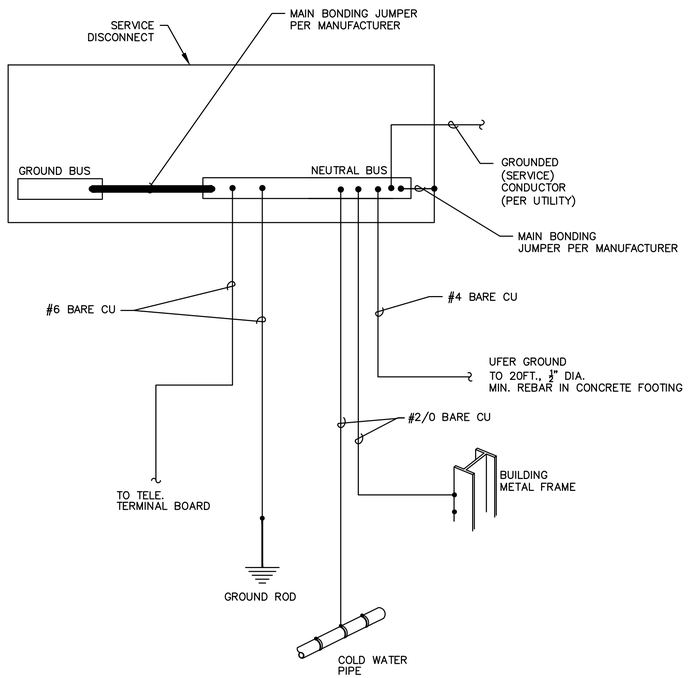
TAG NO.	SERVICE/ FEEDER SIZE	CONDUIT	CONDUCTORS	NOTES
1	400A	(2) 4"	UTILITY	PER UTILITY REQUIREMENT
2	200A	2"	(4) #3/0 & (1) #6 GND	

LIGHTING FIXTURE SCHEDULE 12/1/2017

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A	LED 12W	LITHONIA	WST-P1-30K-VW	**TYPE:** EXTERIOR ARCHITECTURAL WALL SCONCE **MOUNTING:** WALL **HOUSING:** ZINC-INFUSED TGIC THERMOSET POWDER **LENS/REFL:** **VOLTAGE:** MVOLT **BALLAST:**	PROVIDE WITH: PBBW E20WC VANDAL GUARD EMERGENCY BATTERY PACK
B	LED 114W	LITHONIA	IBG-12000LM-SEF	**TYPE:** HIGH BAY LED **MOUNTING:** SURFACE MOUNT, PENDANT, SUSPENSION **HOUSING:** STEELE **LENS/REFL:** ACRYLIC, FROSTED **VOLTAGE:** MVOLT **BALLAST:** OZ10	PROVIDE WITH: 18000LM, GND, 80CRI, 4000K, GLOSS WHITE FINISH OCCUPANCY SENSOR EMERGENCY BATTERY PACK WHERE SPECIFIED
C	LED 18W	LITHONIA	WL2-18L	**TYPE:** SURFACE MOUNTED LED **MOUNTING:** SURFACE MOUNT **HOUSING:** ROLL FORMED FROM CODE-GAUGE STEEL **LENS/REFL:** **VOLTAGE:** MVOLT **BALLAST:**	PROVIDE WITH: LP840 MSD7
D	LED 3.8W	LITHONIA	ECR LED HO M6	**TYPE:** EXIT COMBO **MOUNTING:** TOP, BACK OR END MOUNTING **HOUSING:** THERMOPLASTIC SINGLE FACE **LENS/REFL:** **VOLTAGE:** 120V **BALLAST:**	PROVIDE WITH: ELA LED T WP M12



1 E0.1 ELECTRIC ONE LINE
NO SCALE



2 E0.1 ELECTRIC SERVICE GROUNDING/BONDING DIAGRAM
NO SCALE

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH LANDLORD TO ENSURE UTILITY SERVICE CONNECTION IS PROVIDED AND FULLY OPERATIONAL PRIOR TO OCCUPATION BY CONTRACTORS FOR TENANT IMPROVEMENT PHASE.

B. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES. COORDINATE EXACT CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH LOCAL INSPECTOR PRIOR TO ANY INSTALLATION.

C. GROUND IN ACCORDANCE WITH N.E.C AND ALL LOCAL CODES.

D. WIRING SIZES SHOWN IN FEEDER SCHEDULE ARE BASED ON NEC RECOMMENDATIONS. VOLTAGE DROP HAS NOT BEEN TAKEN INTO ACCOUNT. CONTRACTOR SHALL VERIFY ACTUAL DESIGN CONDITIONS AND ADJUST WIRE SIZE TO COMPLY WITH CODE REGULATED VOLTAGE DROP (2.0% TO PANELS & 3.0% TO BRANCH DEVICES).

E. ELECTRICAL CONTRACTOR SHALL PROVIDE MAIN SERVICE FEEDER, METER HOUSING/EQUIPMENT AND FEEDERS INTO THE BUILDING AND ALL PANEL BOARDS INDICATED. INCLUDING TUBS, BUS AND MAIN BREAKERS, AND COMPLETE PANEL INTERIORS AND FEEDERS.

F. ALL WIRE SHALL BE COPPER TYPE THW OR THHN/THWN, NO ALUMINUM CONDUCTORS WILL BE ALLOWED.

G. ALL PANELS SHALL HAVE COPPER BUSSING.

KEYED NOTES:

1. PROVIDE PER UTILITY REQUIREMENTS.

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PILLAR CONSULTING GROUP, INC.

No.	Description	Date

ONE-LINE, SCHEDULES & LEGENDS

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONNELL
EXPIRES 12-31-2017

Project number	2017015
Date	12/1/2017
Drawn by	AMH
Checked by	RLC

E0.1

Scale	1/8" = 1'-0"

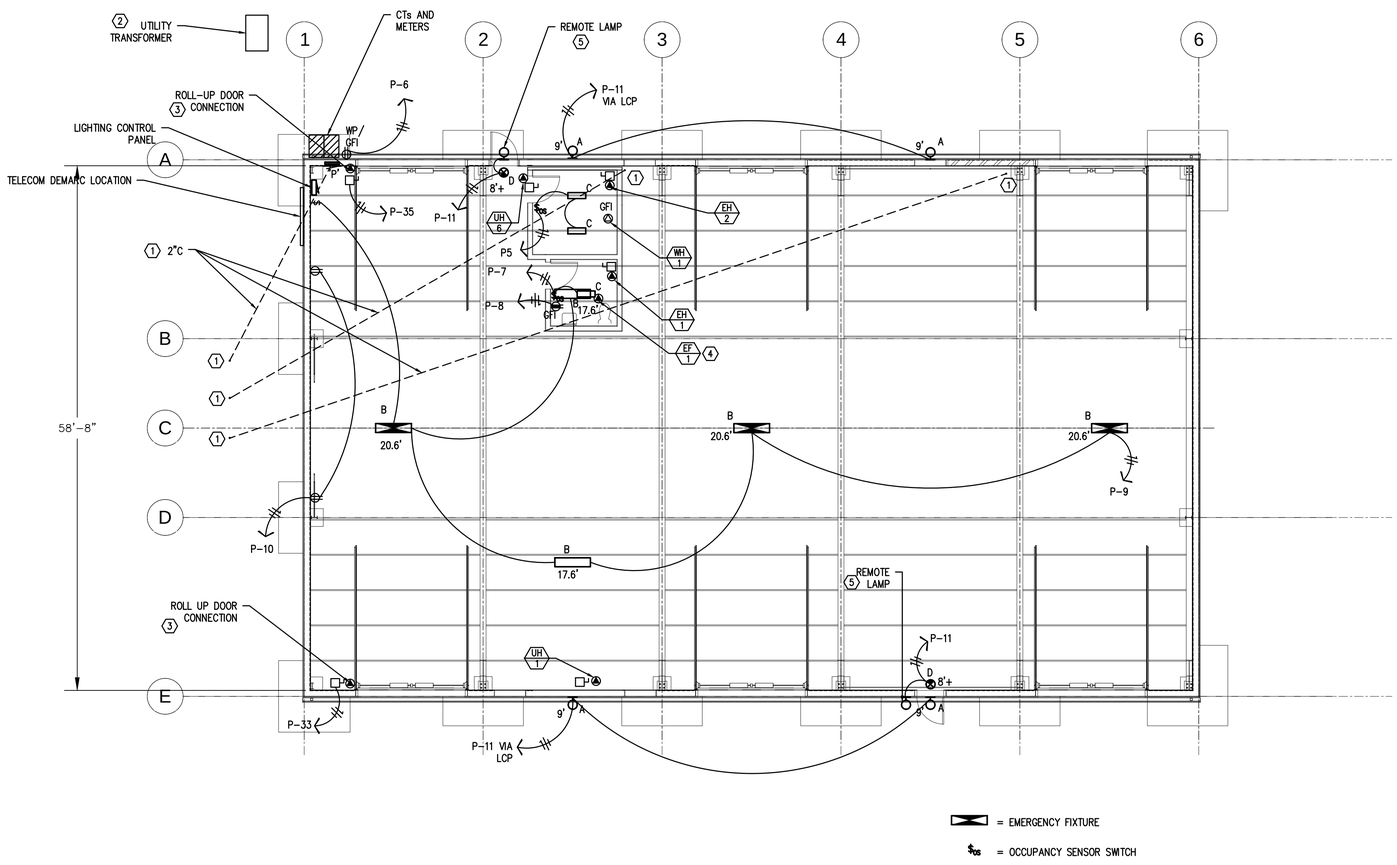
12/1/2017 9:39 AM

MFIA PANEL SCHEDULE											
panel: P		mounting: RECESSED		location					connected load amps: 35		
voltage: 120/208V		phase: 3		bus & main: 200A				MLO	calculated load amps: 37		
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C	
	SPARE		20/1	1	*	2	20/1		SPARE		
	SPARE		20/1	3	*	4	20/1		SPARE		
1	LIGHTING	400	20/1	5		*	6	20/1	360	RECEPTACLE	2
1	LIGHTING	400	20/1	7	*		8	20/1	360	RECEPTACLE	2
1	LIGHTING	570	20/1	9		*	10	20/1	360	RECEPTACLE	2
1	EXTERIOR LIGHTING	50	20/1	11		*	12	20/1		SPARE	
	SPARE		20/1	13	*		14	20/1		SPARE	
5	LIGHTING CONTROL PANEL	600	20/1	15		*	16	20/1		SPARE	
				17		*	18	20/1		SPARE	
				19	*		20				
				21		*	22				
3	EH-2	1500	20/1	23		*	24				
3	UH-1	155	20/1	25	*		26	30/2	2813	WH-1	5
3	UH-6	155	20/1	27		*	28	*	2813	*	5
3	EH-1	1500	20/1	29		*	30				
			20/1	31	*		32				
5	ROLL UP DOOR	360	20/1	33	*		34				
5	ROLL UP DOOR	360	20/1	35		*	36				
				37	*		38				
				39		*	40				
				41		*	42				
	SPARE		20/1	43	*		44				
	SPARE		20/1	45		*	46				
	SPARE		20/1	47		*	48				
	SPARE		20/1	49	*		50				
	SPARE		20/1	51		*	52				
	SPARE		20/1	53	*		54				

		NOTES:	line-line voltage
Phase A	3728 VA		
Phase B	4858 VA		208
Phase C	4170 VA		largest motor (va)
Total Connected	12756 VA		900

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	400	570	450	VA	1420	1.25	1775
2. RECEPT.=	360	360	360	VA	1080	1 + 0.5	1080
3. HEATING=	155	155	3000	VA	3310	1.00	3310
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	2813	3773	360	VA	6946	1.00	6946
6. MOTORS=	0	0	0	VA	0	*	225
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		13336

EQUIPMENT ELECTRICAL SCHEDULE									01-Dec-17	
MARK NO	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT	NOTES
UH-1	GAS UNIT HEATER	0.16KW	120	1		1/2"	(3)#12	(1)#12	P-25	
UH-6	GAS UNIT HEATER	0.16KW	120	1		1/2"	(3)#12	(1)#12	P-27	
EH-1	ELECTRIC WALL HEATER	1.5KW	120	1		1/2"	(3)#12	(1)#12	P-29	
WH-1	ELECTRIC WATER HEATER	4.5KW	240	1		1/2"	(3)#10	(1)#10	P-26,28	
EH-2	ELECTRIC WALL HEATER	1.5KW	120	1		1/2"	(3)#12	(1)#12	P-23	



1 E1.1 ELECTRICAL PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH LANDLORD TO ENSURE UTILITY SERVICE CONNECTION IS PROVIDED AND FULLY OPERATIONAL PRIOR TO OCCUPATION BY CONTRACTORS FOR TENANT IMPROVEMENT PHASE.

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F. ALL WIRE SHALL BE COPPER TYPE THW OR THHN/THWN, NO ALUMINUM CONDUCTORS WILL BE ALLOWED.

G. ALL PANELS SHALL HAVE COPPER BUSSING.

H. CONTRACTOR TO VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT.

I. EXTERIOR LIGHTS SHALL BE POWERED VIA ASTRONOMICAL TIME CLOCK.

⬡ KEYED NOTES:

1. PROVIDE 2" CONDUIT UNDERGROUND FROM PANEL, FUTURE PANEL LOCATION AS STUB-UPS, FOR FUTURE HVAC CONDENSING UNIT. COORDINATE LOCATION WITH ARCHITECT FOR INTERIOR STUB-UPS.
2. INSTALL UTILITY TRANSFORMER PER REQUIREMENT. COORDINATE LOCATION WITH SERVING UTILITY AND ARCHITECT.
3. VERIFY WITH ARCHITECT FOR POWER REQUIREMENT.
4. POWER EXHAUST FAN THROUGH LIGHTING CIRCUIT.
5. PROVIDE REMOTE LAMPS PER MANUFACTURER REQUIREMENT.

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No.	Description	Date

ELECTRICAL PLAN

PORT OF ARLINGTON FLEX-BUILDING

801 AIRPORT RD, ARLINGTON, OREGON

REGISTERED PROFESSIONAL ENGINEER
16,597
OREGON
JULY 20, 1993
ROBERT L. CONNELL
EXPIRES 12-31-2017

Project number	2017015
Date	12/1/2017
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