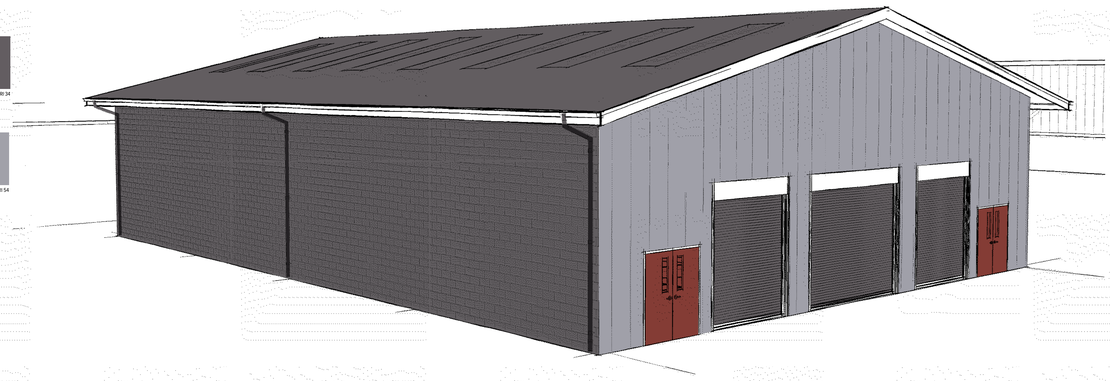
Siuslaw ES Covered Play Structure

SIUSLAW SCHOOL DISTRICT



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2221 Oak Street
Florence, OR 97439

LAND USE 02.02.24

Soderstrom
Architects

VICINITY MAP:

Siuslaw ES Covered Play Structure

PROJECT ADDRESS:

2221 Oak Street
Florence, OR 97439

PROJECT SUMMARY:

CONSTRUCTION OF ONE COVERED PLAY STRUCTURE, APPROX 5560 SQUARE FEET, WITH PRE-ENGINEERED METAL BUILDING ON CONCRETE.

PROJECT TEAM

OWNER
SIUSLAW SCHOOL DISTRICT 97J
2221 Oak Street
Florence, OR 97439
(541) 997-2651

ARCHITECT
SODERSTROM ARCHITECTS, LTD.
www.sdra.com
1331 NW Lovejoy Street, Suite 775
Portland, OR 97209
T 503-228-5617
Marlene Gillis, Principal

CIVIL ENGINEER
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(503) 659-2205
Zachary A. Stokes, PE

ELECTRICAL ENGINEER
LANDIS CONSULTING
5335 MEADOWS Rd, #388
LAKE OSWEGO, OR 97035
(503)584.1576
Ben Perry, PE

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MILLER CONSULTING
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PORTLAND, OR 97223
(503) 246-1250
Lane Jobe, Principal

SHEET INDEX

TABLE 10-3-1 MINIMUM REQUIRED PARKING BY USE:
ELEMENTARY SCHOOL: 1 SPACE PER CLASSROOM
NUMBER OF CLASSROOMS: 36
NUMBER OF REQUIRED PARKING SPACES = 36
NUMBER OF PROVIDED PARKING SPACES = 122

NORTH

1 SITE PLAN
A1.00 (1" = 60'-0")

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A1.00

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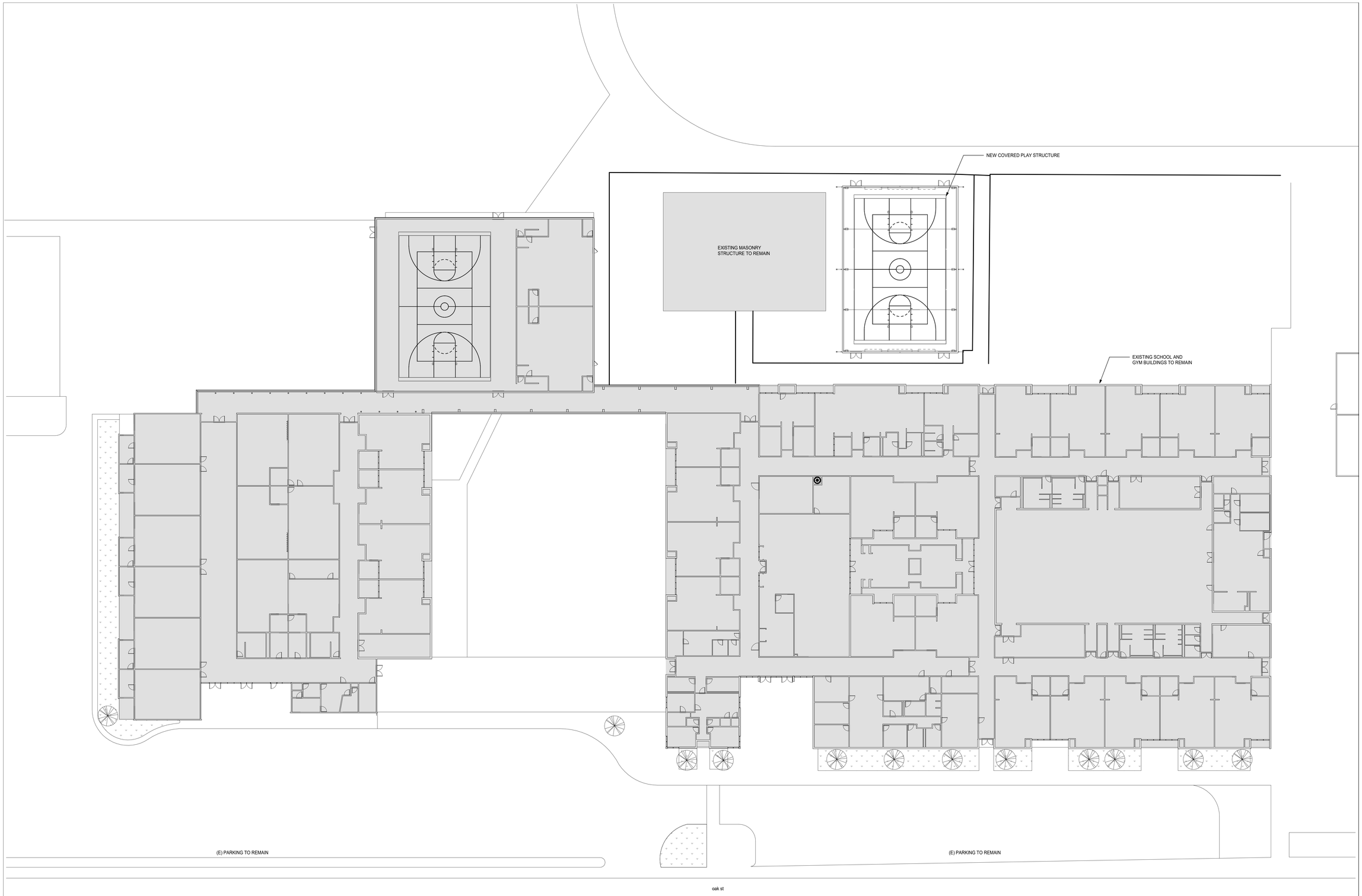

1 OVERALL SITE PLAN

A1.01 (1" = 20'-0")

NORTH

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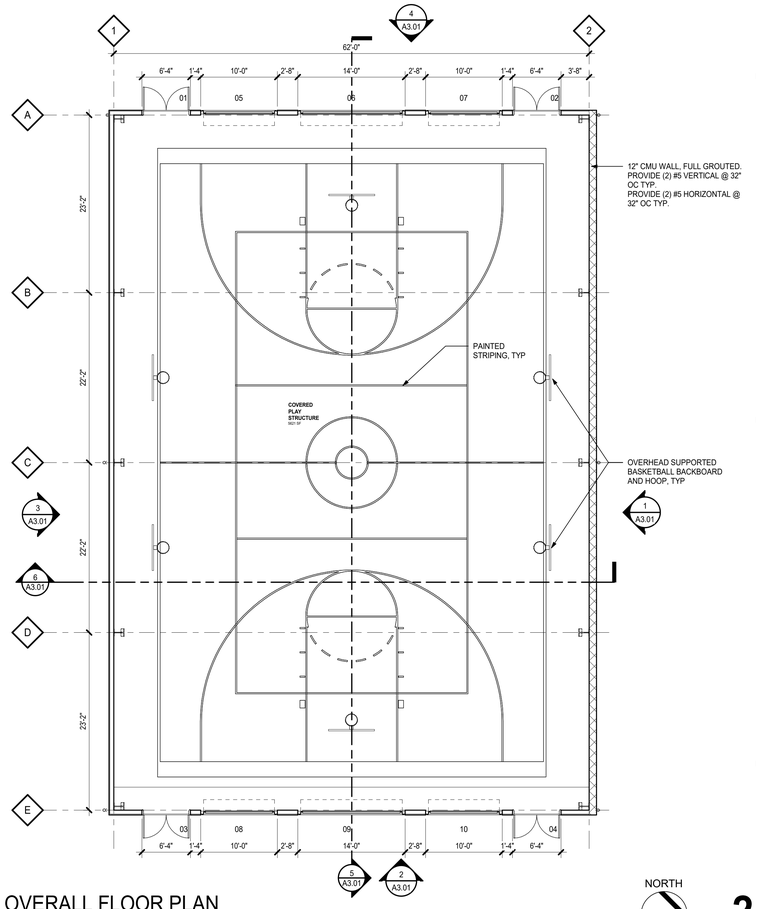
ARCHITECTURAL SITE PLAN

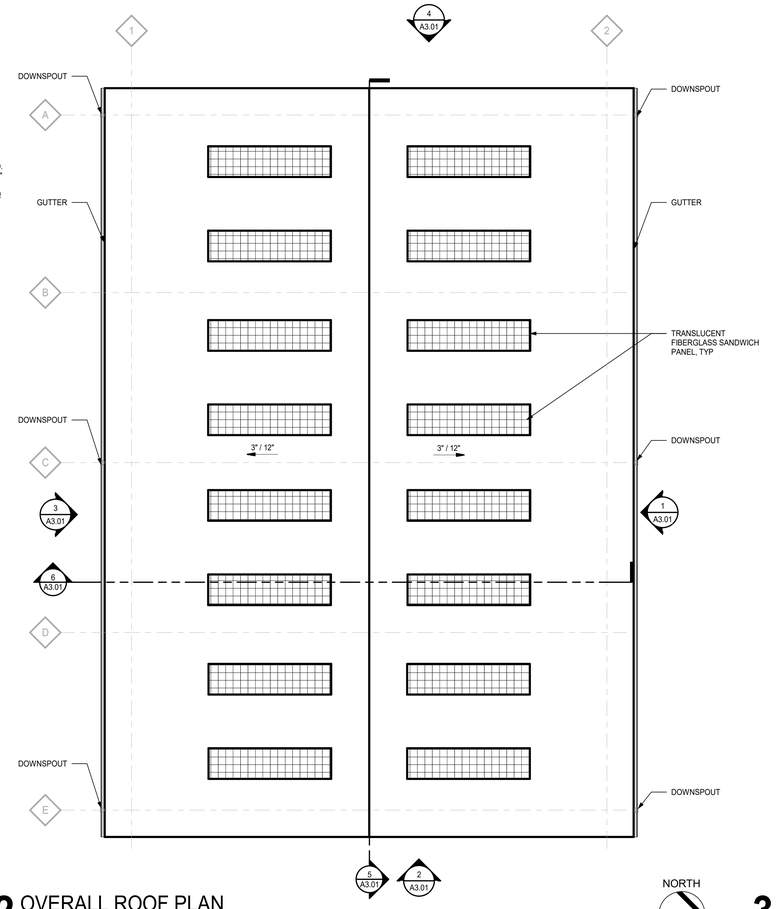
Sheet No
A1.01



1 OVERALL FLOOR PLAN

A2.01 (1/8" = 1'-0")

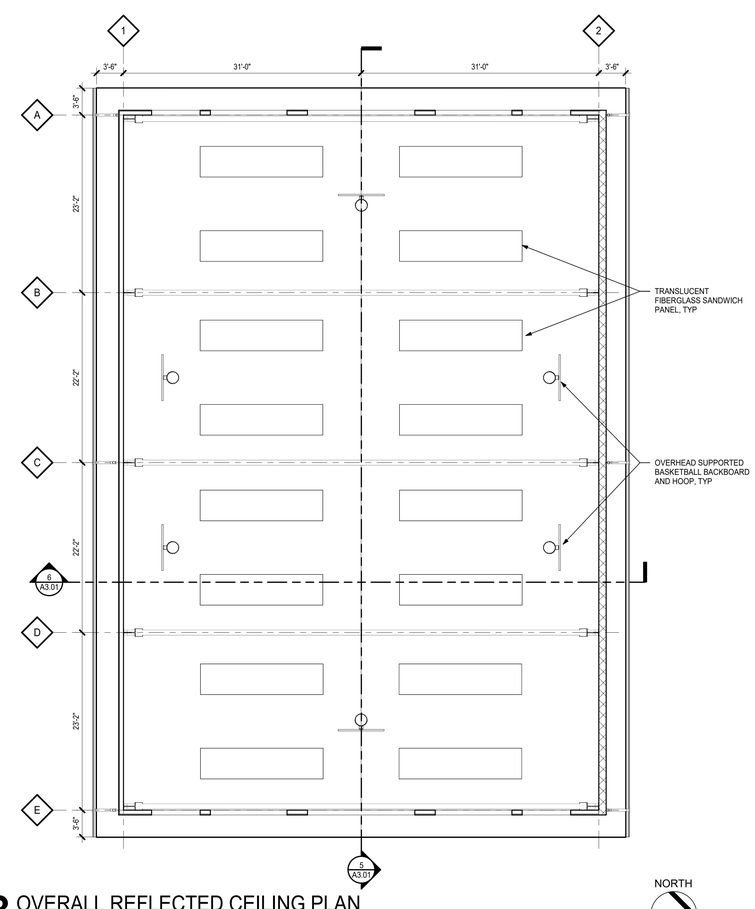
NORTH



2 OVERALL ROOF PLAN

A2.01 (1/8" = 1'-0")

NORTH



3 OVERALL REFLECTED CEILING PLAN

A2.01 (1/8" = 1'-0")

NORTH

MASONRY REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 OR A706 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE *ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES*, ACI 315.

REINFORCING STEEL EXCEPT WHERE OTHERWISE NOTED SHALL BE AS FOLLOWS:
- (2) #5 IN GROUTED LINTEL OVER OPENINGS
- (2) #5 IN GROUTED CELLS AT JAMBS AND WALL ENDS
- (2) #5 IN GROUTED BOND BEAMS AND SILL AND TOP OF WALLS

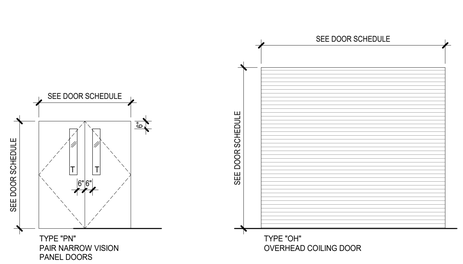
EXTEND ALL REINFORCING STEEL A MINIMUM OF 24 INCHES BEYOND EDGES OF OPENING. PROVIDE MATCHING CORNER BARS FOR ALL BOND BEAMS. VERTICAL REINFORCING STEEL IN MASONRY WALLS TO BE AT CENTER LINE OF WALL UNLESS INDICATED OTHERWISE. REINFORCING MUST BE RESTRAINED TO PREVENT MOVEMENT FROM CONSTRUCTION LOADS AND DURING PLACEMENT OF MORTAR AND GROUT. WIRE-TYING OR PREFABRICATED POSITIONERS ARE METHODS OF PROVIDING THE NECESSARY RESTRAINT FOR REINFORCEMENT. WET-SETTING OF REINFORCEMENT IS NOT PERMITTED.

USE MINIMUM 30" LAP FOR # BAR AND SMALLER UNLESS NOTED OTHERWISE. USE MINIMUM 36" LAP FOR #5 BAR.

FOR WALLS WITH A SINGLE LAYER OF REINFORCING STEEL, THE VERTICAL BARS SHALL BE CENTERED IN THE WALL. FOR WALLS WITH TWO LAYERS OF REINFORCING STEEL, THE VERTICAL BARS ON EACH FACE SHALL BE PLACED TO MAINTAIN 1/2" CLEAR DISTANCE BETWEEN THE INTERIOR OF THE MASONRY UNIT OR FORMED SURFACE, UNO. THE CLEARANCES NOTED SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE FOLLOWIGN MINIMUM COVER TO REINFORCING BARS.

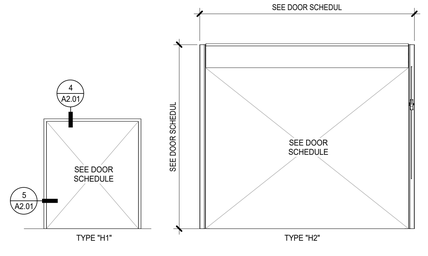
DOOR AND FRAME SCHEDULE

	DOORS					FRAMES		
	OPENING SIZE							
MARK	WIDTH	HGT.	TYPE	MAT	FIN	TYPE	MAT	FIN
01	6'-0"	7'-0"	PN	HM	P	H1	HM	P
02	6'-0"	7'-0"	PN	HM	P	H1	HM	P
03	6'-0"	7'-0"	PN	HM	P	H1	HM	P
04	6'-0"	7'-0"	PN	HM	P	H1	HM	P
05	10'-0"	12'-0"	OH	HM	MFR	H2	HM	MFR
06	14'-0"	12'-0"	OH	HM	MFR	H2	HM	MFR
07	10'-0"	12'-0"	OH	HM	MFR	H2	HM	MFR
08	10'-0"	12'-0"	OH	HM	MFR	H2	HM	MFR
09	14'-0"	12'-0"	OH	HM	MFR	H2	HM	MFR



LEGEND - DOOR TYPES

'T' ON DOOR TYPES INDICATES TEMPERED SAFETY GLAZING.



LEGEND - FRAME TYPES

SHEET NOTES

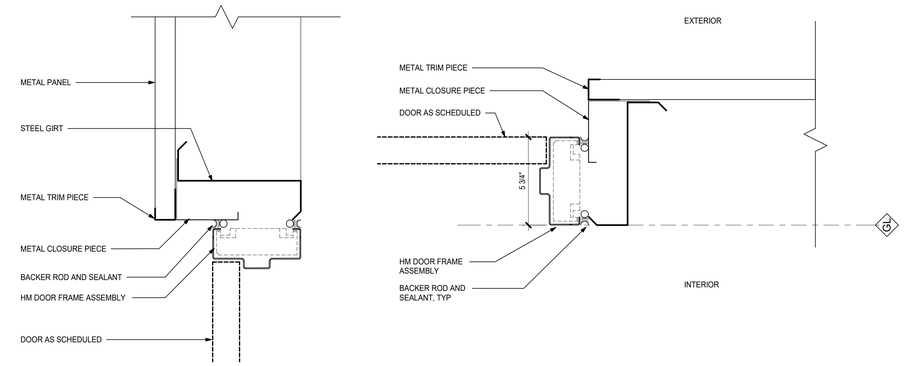
1. 'T' ON FRAME TYPES INDICATES TEMPERED SAFETY GLAZING.
2. VERIFY IN FIELD ALL ROUGH OPENING DIMENSIONS

PLAN LEGEND

1 A101 SIM — ENLARGED VIEW MARK 1=SECTION NO. A101= SHEET NO.

A 1001 — DOOR TAG

WALL

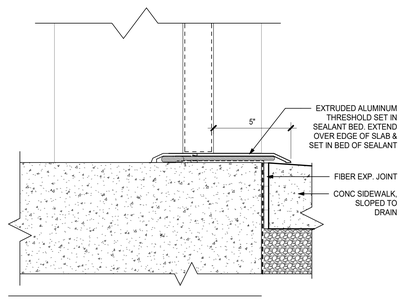


4 HM DOOR HEAD DETAIL

A2.01 (3" = 1'-0")

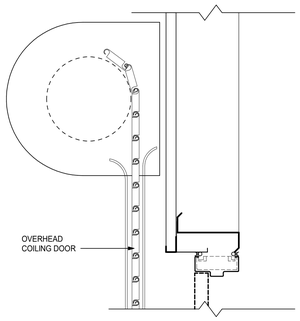
5 HM DOOR JAM DETAIL

A2.01 (3" = 1'-0")



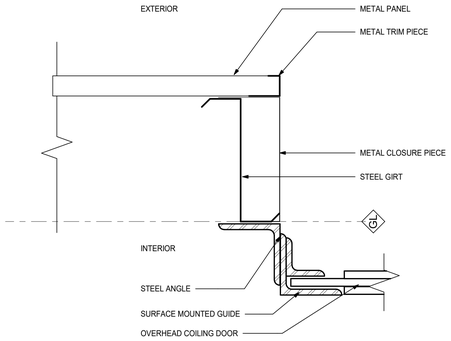
6 HM DOOR THRESHOLD

A2.01 (3" = 1'-0")



7 OVERHEAD DOOR HEAD DETAIL

A2.01 (1 1/2" = 1'-0")



8 OVERHEAD DOOR JAMB

A2.01 (3" = 1'-0")

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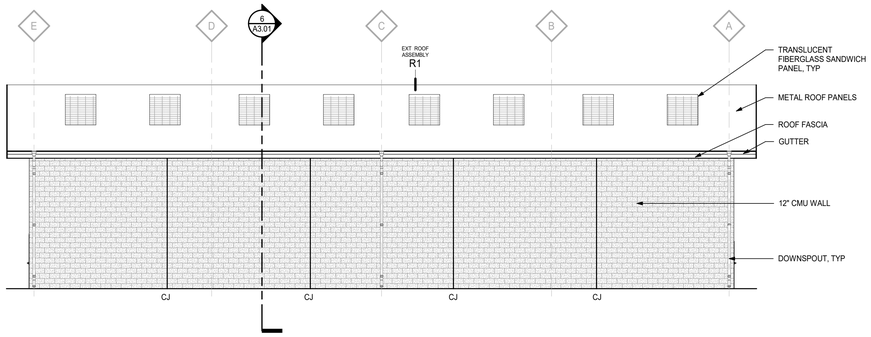
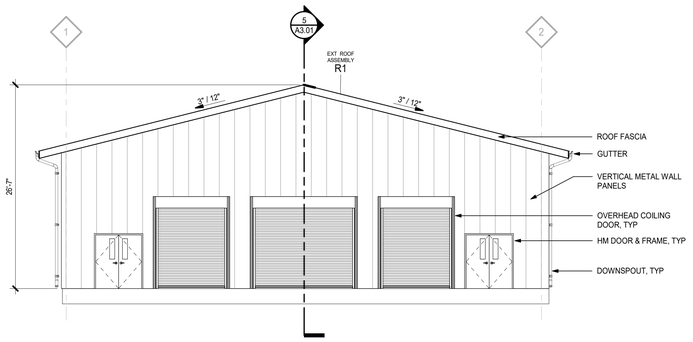


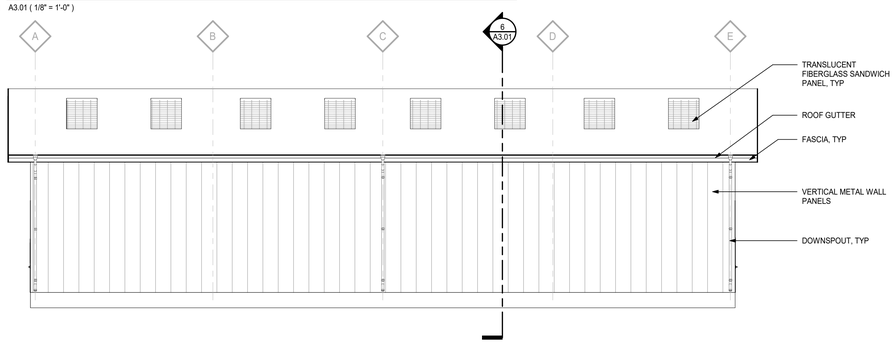
1 NORTH ELEVATION

A3.01 (1/8" = 1'-0")



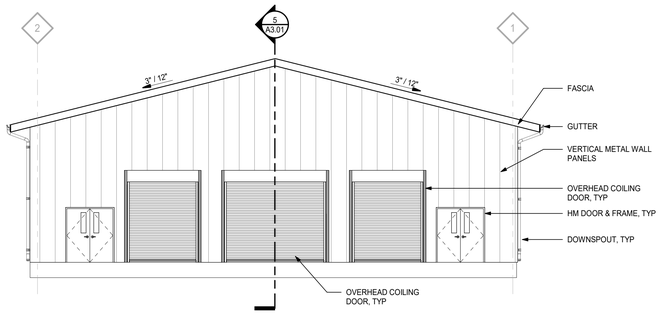
2 EAST ELEVATION

A3.01 (1/8" = 1'-0")



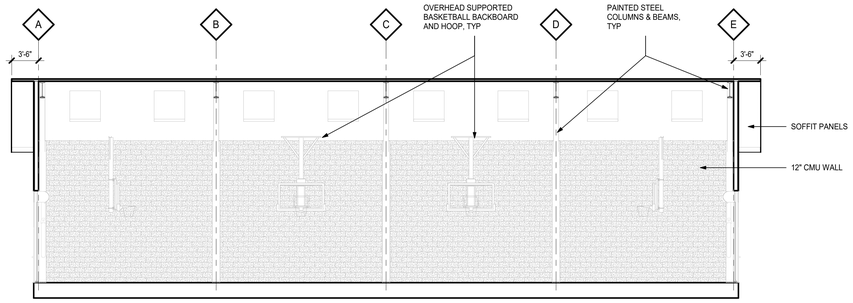
3 SOUTH ELEVATION

A3.01 (1/8" = 1'-0")



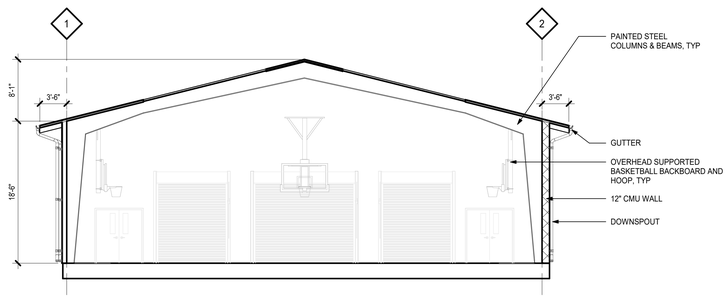
4 WEST ELEVATION

A3.01 (1/8" = 1'-0")



5 Section A

A3.01 (1/8" = 1'-0")



6 Section B

A3.01 (1/8" = 1'-0")

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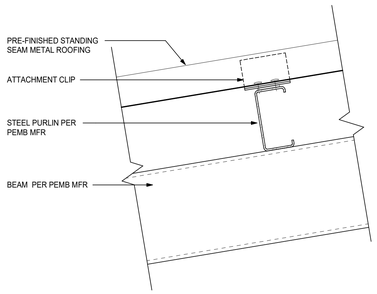
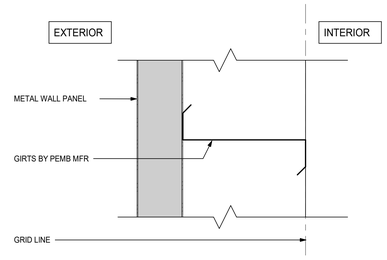
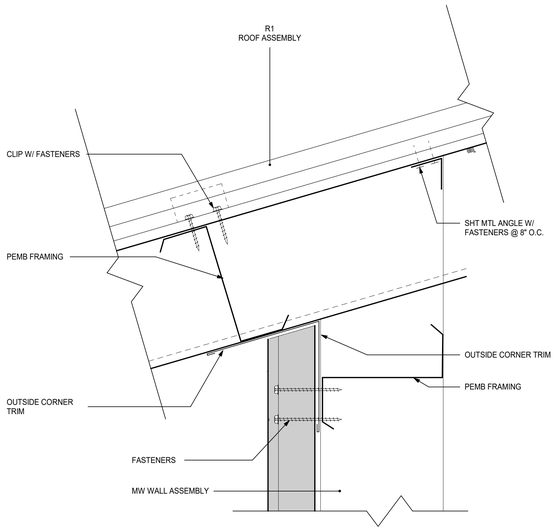


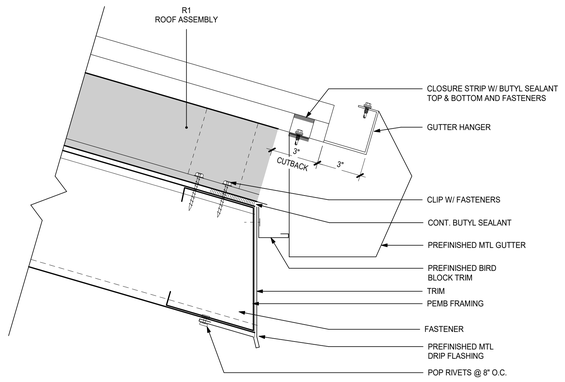
1 R1 - ROOF ASSEMBLY
A4.01 (3" = 1'-0")



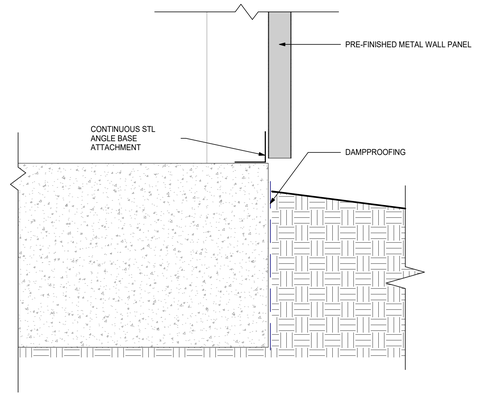
2 MW - WALL ASSEMBLY
A4.01 (3" = 1'-0")



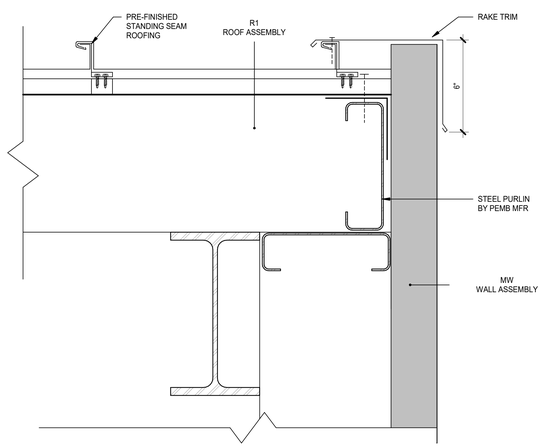
3 WALL TO ROOF
A4.01 (3" = 1'-0")



4 GUTTER DETAIL
A4.01 (3" = 1'-0")



5 BASE OF METAL WALL
A4.01 (1 1/2" = 1'-0")



6 RAKE DETAIL
A4.01 (3" = 1'-0")

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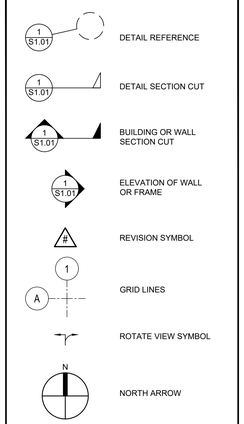
STRUCTURAL ABBREVIATIONS

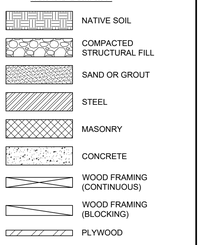
#	NUMBER OR POUNDS
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASSY	ASSEMBLY
ATR	ALL THREAD ROD
ATR/A	ALL THREAD ROD WITH ADHESIVE
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BOT	BOTTOM
BRBF	BUCKLING RESTRAINED BRACED FRAME
BRNG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BU	BUILT-UP
C	CAMBER OR CHANNEL (AMERICAN STANDARD)
CANT	CANTILEVER
CIP	CAST IN PLACE
CG	CENTER OF GRAVITY
CGS	CENTER OF GRAVITY OF (PRESTRESSING) STEEL
CJ	CONTROL OR CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEARANCE; CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CSA	CONCRETE SCREW ANCHOR
d	PENNY (NAIL)
db	NOMINAL BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DBO	DESIGNED BY OTHERS
DEG	DEGREE
DEMO	DEMOLISH; DEMOLITION
DF/L	DOUGLAS FIR-LARCH
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DTL	DETAIL
DWG	DRAWING
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EN	EDGE NAIL
EQ	EQUAL; EARTHQUAKE
EW	EACH WAY
EXT	EXTERIOR
EXTD	EXTEND; EXTENDED
f'c	28 DAY CONC COMPRESSIVE STRENGTH
FF	FINISH FLOOR
FN	FIELD NAIL
FLR	FLOOR
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FT	FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLUE LAMINATED BEAM
GWB	GYPSUM WALL BOARD
HDG	HOT-DIP GALVANIZED
HDR	HEADER
HF	HEM-FIR
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP(S) (1,000 POUNDS)
KSI	KIPS PER SQUARE INCH
L OR 2L	ANGLE OR DOUBLE ANGLE
LF	LINEAR FOOT
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MF	MOMENT FRAME
MFR	MANUFACTURER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MSA	MASONRY SCREW ANCHOR
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTE	NOT TO EXCEED
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OWJ	OPEN WEB JOIST
PAF	POWER-ACTUATED FASTENER
PC	PRECAST
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED OR POST TENSIONED
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RAD	RADIUS
REF	REFERENCE
RAD	REFERENCE ARCH DOCUMENTS
REINF	REINFORCING
REQD	REQUIRED
REV	REVISED, REVISION
RO	ROUGH OPENING
SC	SLIP CRITICAL
SER	STRUCTURAL ENGINEER OF RECORD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLBB	SHORT LEGS BACK TO BACK
SMS	SHEET METAL SCREW
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED (HOLES)
STD	STANDARD
STL	STEEL
SQ	SQUARE
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
URM	UNREINFORCED MASONRY
UT	ULTRASONIC TEST
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WIDE FLANGE
WP	WORK POINT
WTS	WELDED THREADED STUDS
WWR	WELDED WIRE REINFORCING

STRUCTURAL DRAWING INDEX

STRUCTURAL DRAWING SYMBOLS



MATERIAL SYMBOLS



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Siuslaw ES Covered Play Structure
Siuslaw School District
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STRUCTURAL NOTES:

GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND CORRELATION OF ALL ITEMS AND WORK NECESSARY FOR COMPLETION OF THE PROJECT AS INDICATED BY THE CONTRACT DOCUMENTS. SHOULD ANY QUESTION ARISE REGARDING THE CONTRACT DOCUMENTS OR SITE CONDITIONS, THE CONTRACTOR SHALL REQUEST INTERPRETATION AND CLARIFICATION FROM THE ENGINEER BEFORE BEGINNING THE PROJECT. THE ABSENCE OF SUCH REQUEST SHALL SIGNIFY THAT THE CONTRACTOR HAS REVIEWED AND FAMILIARIZED HIMSELF WITH ALL ASPECTS OF THE PROJECT AND HAS COMPLETE COMPREHENSION THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL SAFETY REGULATIONS DURING CONSTRUCTION.

THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SPECIFICALLY NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION OR CONSTRUCTION LOADS. ONLY THE CONTRACTOR SHALL PROVIDE ALL METHODS, DIRECTION AND RELATED EQUIPMENT NECESSARY TO PROTECT THE STRUCTURE, WORKMEN AND OTHER PERSONS AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN THE FIELD. ANY MATERIAL NOT AS SPECIFIED OR IMPROPER MATERIAL INSTALLATION OR WORKMANSHIP SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIAL IN A WORKMANLIKE MANNER AT THE CONTRACTOR'S EXPENSE.

THESE PLANS, SPECIFICATIONS, ENGINEERING AND DESIGN WORK ARE INTENDED SOLELY FOR THE PROJECT SPECIFIED HEREIN. MILLER CONSULTING ENGINEERS DISCLAIMS ALL LIABILITY IF THESE PLANS AND SPECIFICATIONS OR THE DESIGN, ADVICE AND INSTRUCTIONS ATTENDANT THERETO ARE USED ON ANY PROJECT OR AT ANY LOCATION OTHER THAN THE PROJECT AND LOCATION SPECIFIED HEREIN. OBSERVATION VISITS TO THE JOB SITE AND SPECIAL INSPECTIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY UNLESS THE CONTRACT DOCUMENTS SPECIFY OTHERWISE.

NON-STRUCTURAL PORTIONS OF PROJECT INCLUDING, BUT NOT LIMITED TO, PLUMBING, FIRE SUPPRESSION, ELECTRICAL, MECHANICAL, LAND USE, SITE PLANNING, EROSION CONTROL FLASHING AND WATER-PROOFING ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE PROVIDED BY OTHERS.

SCOPE OF WORK

MILLER CONSULTING ENGINEERS, INC. HAS DESIGNED THE REINFORCED CONCRETE FOUNDATION FOR THE STRUCTURAL LOADS AS PROVIDED BY THE METAL BUILDING ENGINEER, PACIFIC BUILDING SYSTEMS (PBS). IN ADDITION, MILLER CONSULTING ENGINEERS, INC. HAS ALSO PROVIDED DESIGN LOADS APPLIED TO THE REINFORCED CONCRETE SLAB FOR THE SUPPORT OF MINIMUM LIVE LOADS AS REQUIRED BY THE BUILDING CODE AND ITS REFERENCED DOCUMENTS.

TEMPORARY SHORING

WHEREVER SHORING IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SHORING SYSTEM THAT PREVENTS SETTLEMENT AND/OR DAMAGE TO EXISTING FACILITIES AND PROTECTS PERSONNEL, THE PUBLIC AND THE BUILDING AS REQUIRED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROTECTING STREETS, WALKWAYS, UTILITIES, IMPROVEMENTS AND EXCAVATION AGAINST LOSS OF GROUND OR CAVING OF EMBANKMENTS DURING CONSTRUCTION, AS REQUIRED. THE CONTRACTOR SHALL LOCATE THE SHORING SYSTEM CLEAR WITHOUT OBSTRUCTION OF THE PERMANENT STRUCTURE AND TO PERMIT CONSTRUCTION TO PROCEED.

BUILDING CODE

ALL PHASES OF THE WORK SHALL CONFORM TO THE 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC), INCLUDING ALL REFERENCE STANDARDS, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTION / STRUCTURAL OBSERVATION

CONTRACTOR RESPONSIBILITIES

SPECIAL INSPECTION AND/OR TESTING IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1704. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO ALLOW SCHEDULING OF SPECIAL INSPECTION. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE SPECIAL INSPECTION AND TESTING BY A QUALIFIED THIRD PARTY, SUCH AS A TESTING AGENCY REVIEWED BY THE ENGINEER.

STRUCTURAL OBSERVATION SHALL VERIFY BY PERIODIC VISUAL OBSERVATION THAT THE STRUCTURAL SYSTEM HAS GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AT SIGNIFICANT STAGES OF CONSTRUCTION AND AT COMPLETION AS REQUIRED IN ACCORDANCE WITH IBC SECTION 1704.6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO ALLOW SCHEDULING FOR A STRUCTURAL OBSERVATION. STRUCTURAL OBSERVATION SHALL BE BY THE ENGINEER OF RECORD.

REQUIRED SPECIAL INSPECTIONS AND TESTS

SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2018 IBC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO THE SPECIAL INSPECTION TABLES FOR ADDITIONAL PROJECT REQUIREMENTS. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.

INSPECTION TYPES:

CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

OBSERVE: OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM: INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM

SHOP DRAWINGS/SUBMITTALS

SHOP DRAWINGS FOR SPECIFIC PRODUCTS GENERATED BY SUPPLIER SHALL BE SUBMITTED FOR THE ITEMS NOTED IN THE SUBMITTAL SCHEDULE. DRAWINGS SHALL BE TO SCALE AND SHOW COMPLETE DETAILS AND INSTRUCTIONS FOR FABRICATION AND ASSEMBLY. SHOP DRAWINGS SHALL INDICATE ERECTION AND TEMPORARY BRACING INFORMATION FOR CONTRACTOR'S USE.

THE DESIGN OF DELEGATED DESIGN ITEMS NOTED IN THE SUBMITTAL SCHEDULE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DOCUMENTS FOR THE DESIGN AND FABRICATION OF DELEGATED DESIGN ITEMS (INCLUDING STRUCTURAL CALCULATIONS AND DRAWINGS) SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER REGISTERED IN THE STATE THAT THE PROJECT IS BEING CONSTRUCTED.

THE CONTRACTOR SHALL REVIEW AND MODIFY ALL SUBMITTALS AS REQUIRED FOR CONFORMANCE WITH DATE AND SIGNATURE ON ALL SETS OF DOCUMENTS PRIOR TO SUBMITTAL TO THE ENGINEER. THE CONTRACTOR SHALL SCHEDULE SUBMITTALS TO ALLOW SUFFICIENT TIME FOR REVIEW AND POSSIBLE RE-SUBMITTAL.

SUBMITTAL SCHEDULE			
ITEM	SUBMITTAL	SHOP DRAWINGS	DELEGATED DESIGN
CONCRETE MIX DESIGNS	X		
CONCRETE REINFORCING STEEL	X		
CONCRETE ANCHORAGE	X		
EMBEDDED STEEL ITEMS	X	X	
CONCRETE MASONRY UNITS	X		
GROUT MIX DESIGNS	X		
MORTAR	X		
CMU REINFORCING STEEL	X		

STRUCTURAL DESIGN CRITERIA

LIVE LOAD REDUCTION FOR BEAMS AND COLUMNS WAS USED. DESIGN FOR MECHANICAL LOADS INCLUDES ONLY THOSE INDICATED ON STRUCTURAL DRAWINGS. THE FOLLOWING ARE THE DESIGN REQUIREMENTS:

STRUCTURAL DESIGN CRITERIA	
RISK CATEGORY	II
SUPERIMPOSED DEAD LOAD (EXCLUDING STRUCTURAL FRAME SELF WEIGHT)	
ROOF (TOTAL INCLUDING ROOFING/CEILING)	PER PACIFIC BUILDING SYSTEMS
FLOOR (TOTAL INCLUDING FLOORING/CEILING)	100 PSF (8 INCH CONCRETE SLAB)
CMU WALL	81 PSF (8 INCH FULLY GROUTED WALL)
COLLATERAL (COMMERCIAL)	
COLLATERAL LOADING	9 PSF
TROLLEY CRANE LIVE LOAD	
TROLLEY CRANE	5 TON (PART OF METAL BUILDING DESIGN)
FLOOR LIVE LOAD (COMMERCIAL)	
LIGHT STORAGE	150 PSF
ROOF LIVE LOAD	
ROOF LIVE LOAD	20 PSF

STRUCTURAL DESIGN CRITERIA	
ROOF SNOW LOAD	
DESIGN ROOF SNOW LOAD	20 PSF
SNOW DRIFTING	AS NOTED ON PLANS (IF OCCURS)
IMPORTANCE FACTOR	Is = 1.0
GROUND SNOW LOAD	Pg = 14 PSF
EXPOSURE FACTOR	Ce = 1.0
THERMAL FACTOR	Ct = 1.0
SLOPE FACTOR	Cs = 1.0
WIND DESIGN DATA (PER PACIFIC BUILDING SYSTEMS)	
BASIC DESIGN WIND SPEED (3 SEC GUST)	V =97 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	GCpi = +/- 0.18
SEISMIC DESIGN DATA (PER PACIFIC BUILDING SYSTEMS)	
IMPORTANCE FACTOR	Ie = 1.0
SPECTRAL RESPONSE ACCELERATIONS	SS = 0.88, S1 = 0.417
SITE CLASS	D-DEFAULT
SPECTRAL RESPONSE COEFFICIENTS	SDS = 0.704, SD1 = 0.52
SEISMIC DESIGN CATEGORY	D
SEISMIC FORCE RESISTING SYSTEM	PER PACIFIC BUILDING SYSTEMS
ANALYSIS PROCEDURE USED	ASCE 7-16 EQUIVALENT LATERAL FORCE
SOIL DESIGN DATA	
ALLOWABLE BEARING PRESSURE	1500 PSF
PASSIVE LATERAL RESISTANCE	250 PCF

FOUNDATION CRITERIA

CONTRACTOR SHALL VERIFY SOIL CONDITIONS AT THE FOOTINGS AND MAKE ANY NECESSARY CORRECTIONS TO PLACE THEM ON FIRM NATIVE SOIL OR STRUCTURAL FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT PER ASTM D698 (STANDARD PROCTOR) OR ASTM D1557 (MODIFIED PROCTOR). THE COMPACTION SHALL BE VERIFIED BY A QUALIFIED INSPECTOR APPROVED BY THE BUILDING OFFICIAL. COMPACTED STRUCTURAL FILL FOR DEPTHS GREATER THAN 12 INCHES SHALL COMPLY WITH PROVISIONS OF AN APPROVED GEOTECHNICAL REPORT.

CONCRETE

MIXING, BATCHING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE, ACI 318, ACI 301 AND IBC CHAPTER 19.

CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS:

CONCRETE MIX DESIGN REQUIREMENTS			
MEMBER TYPE/LOCATION	COMPRESSIVE STRENGTH AT 28 DAYS, F'C (PSI)	MAXIMUM AGGREGATE SIZE	MAXIMUM W/CM RATIO
FOOTINGS AND MAT FOUNDATIONS	4500	1"	0.50
GRADE BEAMS/PILE CAPS	4500	3/4"	0.50

CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL HAVE A SHRINKAGE LIMIT OF 0.045% AT 28 DAYS AS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS FOR APPROVAL PRIOR TO CONSTRUCTION.

ALL EXTERIOR CONCRETE SUBJECT TO FREEZE/THAW CYCLES AND/OR CONTINUOUS MOISTURE OR DEICING CHEMICALS, INCLUDING SIDEWALKS, SLABS AND WALLS, SHALL HAVE A MAXIMUM W/CM RATIO OF 0.45 AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, F'C = 4500 PSI AND SHALL MEET THE FOLLOWING AIR CONTENT REQUIREMENTS:

CONCRETE MIX AIR CONTENT REQUIREMENTS		
MAXIMUM AGGREGATE SIZE	CONCRETE SUBJECT TO FREEZE/THAW CYCLES	CONCRETE SUBJECT TO CONTINUOUS MOISTURE AND/OR DEICING CHEMICALS
3/8"	6%	7.5%
1/2"	5.5%	7%
3/4"	5%	6%

THE AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. ALL CONCRETE WITH REINFORCEMENT SHALL HAVE NO CHLORINE OR CHLORIDES. NO WATER MAY BE ADDED TO THE CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE APPROVED CONCRETE MIX DESIGN.

SLEEVES, OPENINGS, CONDUIT AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.

DESIGN OF FORMWORK, SHORING AND RE-SHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE MOST RECENT EDITION OF ACI 347R.

CONCRETE REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 OR A706, GRADE 60 UNLESS NOTED OTHERWISE.

ALL REINFORCING STEEL SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS, PLASTIC CHAIRS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1 AND SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE PRIOR TO PLACING CONCRETE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE *GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS*, ACI 315R-18. BAR LENGTHS DETAILED ARE OUT TO OUT AND DO NOT INCLUDE ALLOWANCE FOR HOOKS OR BENDS.

WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR EMBEDDED STEEL ITEMS IS PROHIBITED EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. WHERE WELDING IS APPROVED, REINFORCING STEEL SHALL CONFORM TO ASTM A706 AND WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS USING E9018 OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4.

CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE COVER (UNLESS NOTED OTHERWISE)					
BAR SIZE	CONCRETE CAST AGAINST EARTH	CONCRETE EXPOSED TO EARTH/WEATHER	SLABS & JOISTS	WALLS	BEAMS & COLUMNS (TIES, STIRRUPS, SPIRALS)
#5 & SMALLER	3"	1 1/2"	"TOP BARS: 3/4"" BOTTOM BARS: 1"""	1"	1 1/2"
#6 TO #11		2"			
#14 & #18			1 1/2"	1 1/2"	

SPECIFIED CONCRETE COVER SHALL BE MAINTAINED TO ALL REINFORCEMENT AT CONCRETE REVEALS AND INSETS. SHOP DRAWINGS SHOWING CONCRETE REVEALS AND OTHER INSETS SHALL BE SUBMITTED FOR REVIEW.

REINFORCING BARS SHALL BE LAP SPLICED AS NOTED ON THE STRUCTURAL DRAWINGS AND DETAILS. USE MINIMUM 30" LAP FOR #4 BAR AND A MINIMUM 36" LAP FOR #5 BAR UNO. AT THE CONTRACTOR'S OPTION, MECHANICAL COUPLINGS MAY BE USED FOR ANY BAR SIZE AND AT ANY LOCATION, PROVIDED A CURRENT ICC-ES REPORT DEMONSTRATES THE COUPLING CAN ACHIEVE A MINIMUM TENSILE STRENGTH OF 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR AND 100% OF THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BAR.

HEADED BARS OR TERMINATORS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS OR AT THE CONTRACTOR'S OPTION FOR CONGESTED AREAS OF REINFORCEMENT, SUBJECT TO THE ENGINEER'S APPROVAL. HEADED BARS OR TERMINATORS SHALL MEET THE REQUIREMENTS OF ACI 318 AND ASTM A970 AND HAVE A CURRENT ICC-ES REPORT.

AT EACH RE-ENTRANT CORNER IN SLABS, PROVIDE ONE #4 X 4'-0" DIAGONALLY CENTERED ON THE CORNER AT EACH LAYER OF REINFORCING STEEL.

CONCRETE ANCHORS

ALL CAST IN PLACE ANCHOR BOLTS SHALL BE SECURELY TIED IN THEIR FINAL POSITION PRIOR TO PLACING CONCRETE (WET-SETTING OF ANCHOR BOLTS IS NOT PERMITTED). ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36. FURNISH ANCHOR RODS WITH MATCHING DOUBLE HEAVY HEX NUTS JAMMED AT THE END EMBEDDED IN CONCRETE. HOOKED ANCHOR RODS SHALL NOT BE USED EXCEPT WHERE NOTED.

ALL HEADED STUD ANCHORS (HSA) SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, TYPE B, AND ASTM A108. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A1064. ALL HSA AND DBA SHALL BE WELDED WITH AUTOMATIC STUD WELDING EQUIPMENT PER THE RECOMMENDATIONS OF THE STUD AND EQUIPMENT MANUFACTURER, UNLESS OTHERWISE SPECIFIED.

POST INSTALLED CONCRETE ANCHORS SHALL CONSIST OF THE FOLLOWING UNLESS NOTED OTHERWISE:

EXPANSION BOLTS: SIMPSON STRONG-BOLT 2
SCREW ANCHORS: SIMPSON TITEN HD
ADHESIVE ANCHORS: SIMPSON SET-3G
POWER-ACTUATED FASTENERS: 0.157" DIAMETER SIMPSON PDPA (1" EMBEDMENT)

ALL POST INSTALLED CONCRETE ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION CRITERIA AND PER THE CURRENT ICC EVALUATION REPORT. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.

NON-SHRINK GROUT

ALL NON-SHRINK GROUT SHALL BE NON-METALLIC GROUT CONFORMING TO ASTM C1107 AND SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 1000 PSI HIGHER THAN THE SUPPORTING CONCRETE STRENGTH. GROUT SHALL BE MIXED, APPLIED AND CURED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PRE-GROUTING OF BASE PLATES IS NOT PERMITTED.

EMBEDDED ELECTRICAL CONDUIT AND OTHER EMBEDDED ITEMS

ELECTRICAL CONDUIT AND OTHER EMBEDDED CONDUIT SHALL BE RIGID STEEL CONDUIT OR FLEXIBLE PLASTIC CONDUIT. ALUMINUM CONDUIT IS PROHIBITED.

FOR CONDUIT PLACED IN CONCRETE FLAT SLABS OR SLABS THAT ARE PART OF A CONCRETE SLAB AND BEAM SYSTEM, CONDUIT SHALL HAVE A MAXIMUM OUTSIDE DIAMETER OF 1/6 TIMES THE SLAB THICKNESS AND SHALL BE EMBEDDED WITHIN THE MIDDLE THIRD OF THE SLAB DEPTH. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE THREE TIMES THE CONDUIT DIAMETER.

CONDUIT SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING POURING. FOR GROUPS OF (3) OR MORE CONDUITS, PLACE #4 AT 12 INCHES OC ADDITIONAL REINFORCING ABOVE CONDUIT RUNNING ABOVE STEEL DECK FLUTES AND ABOVE AND BELOW CONDUIT IN CONCRETE SLABS, PERPENDICULAR TO THE CONDUIT. THE ADDED REINFORCING SHALL EXTEND 1'-0" PAST THE CONDUIT ON BOTH SIDES.

STRUCTURAL STEEL

DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360). QUALITY ASSURANCE (QA) IS REQUIRED FOR STRUCTURAL STEEL ITEMS PER AISC 360 AND 341 UNLESS SPECIFICALLY NOTED OTHERWISE. QUALITY CONTROL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.

ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:

STRUCTURAL STEEL MATERIAL STANDARDS		
SHAPE	ASTM SPECIFICATION	YIELD STRESS
ALL OTHER SECTIONS AND PL	A36	36 KSI

UNLESS NOTED OTHERWISE, ALL BOLTS TO BE ASTM F3125 GRADE A325 WITH MATCHING NUTS. UNLESS CONNECTION IS NOTED AS SLIP-CRITICAL OR PRETENSIONED, NUTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PER RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS, SECTION 8.1. FOR SLIP-CRITICAL AND PRETENSIONED CONNECTIONS, INSTALLATION OF FASTENERS SHALL BE PER RCSC SECTION 8.2.

ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE OR MASONRY OR STEEL TO BE GALVANIZED. EMBEDDED SURFACES SHALL BE FREE OF CONTAMINANTS. ALL EXPOSED STRUCTURAL STEEL TO HAVE ONE FINISH COAT OF RUST INHIBITING PAINT, COLOR BY OWNER.

ALL ZINC (GALV.) COATINGS ON IRON AND STEEL PRODUCTS SHALL CONFORM TO ASTM A123. REPAIRS OF GALVANIZED COATINGS ARE TO CONFORM TO ASTM A780. HOT DIP GALVANIZED COATINGS ON ASTM F3125 GRADE A325 FASTENER ASSEMBLIES SHALL CONFORM TO ASTM A153. SURFACE PREPARATION OF GALVANIZED STEEL TO RECEIVE A FINISH COAT OF PAINT SHALL CONFORM TO ASTM D6386.

REFER TO THE ARCHITECTURAL DRAWINGS FOR STEEL ELEMENTS THAT REQUIRE INTUMESCENT FIRE PROOFING. INTUMESCENT COATINGS SHALL BEAR THE UNDERWRITERS LABORATORIES (UL) LABEL. STEEL MEMBERS SHALL BE PROPERLY PREPARED, INCLUDING THE USE OF A COMPATIBLE PRIMER, AS SPECIFIED BY THE MANUFACTURER. INSTALL INTUMESCENT COATINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

STRUCTURAL STEEL WELDING

ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) D1.1 USING E70XX ELECTRODES. WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY AWS FOR THE WELD TYPES SPECIFIED. WELD LENGTHS SHOWN ARE EFFECTIVE AS SPECIFIED PER THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). WHERE WELD LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF MEMBERS BEING JOINED. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. WHERE SHOWN, PROPER FIELD WELDING PER AWS D1.1 SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS.

ALL PARTIAL JOINT PENETRATION GROOVE WELD SIZES SHOWN ON THE DRAWINGS REFER TO THE EFFECTIVE THROAT THICKNESS. ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT PREPARATION AND WELDING PROCEDURES THAT INCLUDE, BUT ARE NOT LIMITED TO: REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS AND TRANSITIONS OF UNEQUAL PARTS.

MASONRY

ALL CONCRETE MASONRY UNITS (CMU) SHALL BE CONSTRUCTED IN ACCORDANCE WITH IBC CHAPTER 21 AND TMS 402/602. CMU SHALL BE MEDIUM WEIGHT SAND UNITS (115 LBS PER CUBIC FOOT) CONFORMING TO ASTM C90 WITH LINEAR DRYING SHRINKAGE LIMITED TO 0.065% AND RATE OF ABSORPTION NOT EXCEEDING 0.035 OUNCES OF WATER PER SQ. IN. OF SURFACE AT THE TIME OF PLACEMENT. THE NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE 1,900 PSI. CMU SHALL BE INSTALLED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE.

THE COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY SHALL BE A MINIMUM OF F'M=2000 PSI ON NET AREA BY UNIT STRENGTH METHOD.

HOT AND COLD WEATHER CONSTRUCTION REQUIREMENTS PER TMS 602 SPECIFICATIONS SHALL APPLY. TEMPORARY BRACING OF MASONRY WALLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTROL JOINTS ARE TO BE SPACED AT 1 ½ TIMES THE WALL HEIGHT WITH A MAXIMUM OF 25 FT.

UNLESS OTHERWISE SPECIFIED ON THE ARCHITECTURAL CONSTRUCTION DOCUMENTS, ALL MASONRY EXPOSED TO THE WEATHER TO RECEIVE (2) COATS OF MOISTURE PROOF SEALANT APPLIED PER MANUFACTURER'S INSTRUCTIONS AND MASONRY EXPOSED TO THE SOIL SHALL HAVE TWO COATS OF WATERPROOF EMULSION APPLIED. INSTALL COMPATIBLE PAINT PER OWNER'S REQUIREMENTS.

MASONRY MORTAR

ALL MORTAR SHALL CONFORM TO ASTM C270 TYPE S. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. COMPLETELY COVER THE BEDDING AREA OF THE UNITS AT ALL BED, HEAD AND WEB JOINTS WITH MORTAR (100% MORTAR FILLING IS REQUIRED).

MASONRY GROUT

ALL GROUT TO BE FINE GROUT CONFORMING TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. ALL CELLS CONTAINING VERTICAL BARS AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. FULLY GROUT ALL STRUCTURAL MASONRY WALLS UNLESS NOTED OTHERWISE.

GROUT LIFTS SHALL NOT EXCEED 5'-4" IN HEIGHT. CONSOLIDATION MUST BE PERFORMED IN EACH GROUTED CELL IMMEDIATELY AFTER GROUT PLACEMENT WITH A MECHANICAL VIBRATOR. RODDING IS NOT AN ACCEPTABLE MEANS OF GROUT CONSOLIDATION. GROUT POURS SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. ALL PROCEDURES FOR HIGH LIFT GROUTING ARE OPTIONAL AND ARE TO BE REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD PRIOR TO GROUTING.

CLEAN OUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN THE GROUT POUR HEIGHT EXCEEDS 5'-4". WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED AT EVERY VERTICAL BAR BUT SHALL NOT BE SPACED MORE THAN 32 INCHES ON CENTER FOR SOLID GROUTED MASONRY. CONSTRUCT CLEANOUTS WITH AN OPENING OF SUFFICIENT SIZE TO PERMIT REMOVAL OF DEBRIS, WITH A MINIMUM OPENING DIMENSION OF 3 INCHES. CLEANOUTS SHALL BE ADEQUATELY SEALED AFTER INSPECTION AND BEFORE GROUTING TO RESIST GROUT PRESSURE.

MASONRY REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 OR A706 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE *ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES*, ACI 315.

REINFORCING STEEL EXCEPT WHERE OTHERWISE NOTED SHALL BE AS FOLLOWS:

(2) #5 IN GROUTED LINTEL OVER OPENINGS
(2) #5 IN GROUTED CELLS AT JAMBS AND WALL ENDS
(2) #5 IN GROUTED BOND BEAMS AT SILLS AND TOP OF WALLS.

EXTEND ALL REINFORCING STEEL A MINIMUM OF 24 INCHES BEYOND EDGES OF OPENING. PROVIDE MATCHING CORNER BARS FOR ALL BOND BEAMS. VERTICAL REINFORCING STEEL IN MASONRY WALLS TO BE AT CENTER LINE OF WALL UNLESS INDICATED OTHERWISE. REINFORCEMENT MUST BE RESTRAINED TO PREVENT MOVEMENT FROM CONSTRUCTION LOADS AND DURING PLACEMENT OF MORTAR AND GROUT. WIRE-TYING OR PREFABRICATED POSITIONERS ARE METHODS OF PROVIDING THE NECESSARY RESTRAINT FOR REINFORCEMENT. WET-SETTING OF REINFORCEMENT IS NOT PERMITTED.

USE MINIMUM 30" LAP FOR # BAR AND SMALLER UNLESS NOTED OTHERWISE (UNO). USE MINIMUM 36" LAP FOR #5 BAR UNO.

FOR WALLS WITH A SINGLE LAYER OF REINFORCING STEEL, THE VERTICAL BARS SHALL BE CENTERED IN THE WALL. FOR WALLS WITH TWO LAYERS OF REINFORCING STEEL, THE VERTICAL BARS ON EACH FACE SHALL BE PLACED TO MAINTAIN ½" CLEAR DISTANCE BETWEEN THE INTERIOR OF THE MASONRY UNIT OR FORMED SURFACE, UNO. THE CLEARANCES NOTED SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE FOLLOWING MINIMUM COVER TO REINFORCING BARS:

MASONRY COVER (UNLESS NOTED OTHERWISE)		
BAR SIZE	MASONRY EXPOSED TO EARTH/WEATHER	MASONRY NOT EXPOSED TO EARTH/WEATHER
#5 & SMALLER	1 1/2"	1 1/2"
#6 & LARGER	2"	

BRICK VENEER

BRICK VENEER SHALL BE PER IBC SECTIONS 1404.6 THROUGH 1404.9 AND TMS SECTIONS 12.1 AND 12.2 AND SHALL BE INSTALLED WITH TYPE S MORTAR. PROVIDE AT LEAST ONE ANCHOR TIE FOR EACH 2 SQUARE FEET OF WALL AREA, BUT ANCHOR TIE SPACING SHALL NOT EXCEED 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY. PROVIDE ADDITIONAL ANCHOR TIES WITHIN 12 INCHES OF OPENINGS, SPACED AT A MAXIMUM OF 3 FEET ON CENTER AROUND THE OPENING. ANCHOR TIES SHALL BE ANCHORED TO A NO. 9 GAUGE HORIZONTAL JOINT REINFORCING WIRE. THE JOINT REINFORCING SHALL BE CONTINUOUS WITH BUTT SPLICES CENTERED BETWEEN TIES PERMITTED. UNLESS OTHERWISE SPECIFIED ON THE ARCHITECTURAL CONSTRUCTION DOCUMENTS, AFTER CLEANING, APPLY TWO WATER REPELLANT COATINGS PER MANUFACTURER'S RECOMMENDATIONS.

MASONRY ANCHORS

ALL CAST IN PLACE ANCHOR BOLTS SHALL BE SECURELY TIED IN THEIR FINAL POSITION PRIOR TO GROUTING WALL (WET-SETTING OF ANCHOR BOLTS IS NOT PERMITTED). ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36. FURNISH ANCHOR RODS WITH MATCHING DOUBLE HEAVY HEX NUTS JAMMED AT THE END EMBEDDED IN GROUT. HOOKED ANCHOR RODS SHALL NOT BE USED EXCEPT WHERE NOTED.

ALL HEADED STUD ANCHORS (HSA) SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, TYPE B, AND ASTM A108. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496. ALL HSA AND DBA SHALL BE WELDED WITH AUTOMATIC STUD WELDING EQUIPMENT PER THE RECOMMENDATIONS OF THE STUD AND EQUIPMENT MANUFACTURER, UNLESS OTHERWISE SPECIFIED.

POST INSTALLED MASONRY ANCHORS SHALL CONSIST OF THE FOLLOWING UNLESS NOTED OTHERWISE. ALTERNATE ANCHORS MAY ONLY BE USED WITH PRIOR APPROVAL BY THE ENGINEER OF RECORD.

EXPANSION BOLTS: SIMPSON STRONG-BOLT 2
SCREW ANCHORS: SIMPSON TITEN HD
ADHESIVE ANCHORS: SIMPSON SET-XP
POWER-ACTUATED FASTENERS: 0.157" DIAMETER SIMPSON PDPA (1 3/4" EMBEDMENT)
[EXPANSION BOLTS: HILTI KWIK BOLT TZ2
SCREW ANCHORS: HILTI KWIK HUS-EZ
ADHESIVE ANCHORS: HILTI HIT-RE 500 V3
POWER-ACTUATED FASTENERS: HILTI X-U P8 (1 3/4" EMBEDMENT)]

ALL POST INSTALLED MASONRY ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION CRITERIA AND PER THE CURRENT ICC EVALUATION REPORT.

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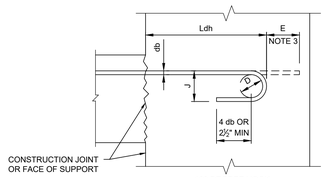
ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	NOMINAL DIMENSIONS DIAMETER (in.)	AREA (in.²)	MASS (lb/ft)
#3	0.375	0.11	0.376
#4	0.500	0.20	0.668
#5	0.625	0.31	1.043
#6	0.750	0.44	1.502
#7	0.875	0.60	2.044
#8	1.000	0.79	2.670
#9	1.128	1.00	3.400
#10	1.270	1.27	4.303
#11	1.410	1.56	5.313
#14	1.693	2.25	7.65
#18	2.257	4.00	13.6

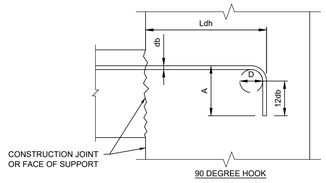
1. ASTM A615 GRADE 40 IS LIMITED TO BAR SIZES #3 THROUGH #6
2. CHECK AVAILABILITY WITH LOCAL SUPPLIERS FOR BAR SIZES #14 AND #18

1 S0.03 STANDARD REBAR DIMENSIONS

1 1/2" = 1'-0"



180 DEGREE HOOK



90 DEGREE HOOK

END HOOKS, ALL GRADES OF STEEL

BAR SIZE	D	180°HOOKS E	180°HOOKS J	90°HOOKS A
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"
#11	12"	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4"	2'-3"	1'-9 3/4"	2'-7"
#18	24"	3'-0"	2'-4 1/2"	3'-5"

HOOK DEVELOPMENT LENGTHS (Ldh) FOR GRADE 60 REBAR

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c (PSI) 2500	3000	4000	5000	6000	7000	8000
#3	9"	9"	7"	7"	6"	6"	6"
#4	12"	11"	10"	9"	8"	7"	7"
#5	15"	14"	12"	11"	10"	9"	9"
#6	18"	17"	15"	13"	12"	11"	10"
#7	21"	19"	17"	15"	14"	13"	12"
#8	24"	22"	19"	17"	16"	15"	14"
#9	27"	25"	22"	19"	18"	16"	15"
#10	31"	28"	24"	22"	20"	19"	17"
#11	34"	31"	27"	24"	22"	21"	19"
#14	41"	37"	32"	29"	27"	25"	23"
#18	55"	50"	43"	39"	35"	33"	31"

NOTES:
1. FOR BAR SIZES #3 THROUGH #11 ONLY:
   a. IF CONCRETE SIDE COVER IS > 2½" AND END COVER > 2", THEN A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED BUT THE LENGTH MUST NOT BE LESS THAN 8 BAR DIAMETERS NOR 6 IN.
2. FOR EPOXY-COATED HOOKS, MULTIPLY THE TABULATED VALUES BY 1.2.
3. BAR DIMENSION REQUIRED TO MANUFACTURE HOOK

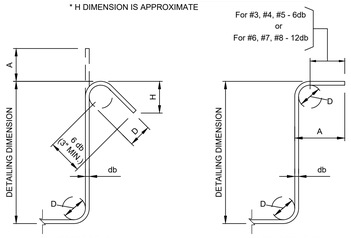
3 S0.03 STANDARD HOOKS AND EMBEDMENT

1 1/2" = 1'-0"

STIRRUP HOOKS (TIE BENDS SIMILAR)

BAR SIZE	D	90° A	135° A	135° H*
#3	1 1/2"	4"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	6"

* H DIMENSION IS APPROXIMATE



2 S0.03 STIRRUP HOOKS AND TIE BENDS

1 1/2" = 1'-0"

TYPICAL LAP SPLICE LENGTH SCHEDULE

BAR SIZE	f'c = 2500 PSI CASE 1	CASE 2	f'c = 3000 PSI CASE 1	CASE 2	f'c = 4000 PSI CASE 1	CASE 2	f'c = 5000 PSI CASE 1	CASE 2	f'c = 6000 PSI CASE 1	CASE 2
#3	24	36	22	32	19	28	17	25	16	23
#4	32	47	29	43	25	37	23	34	21	31
#5	39	59	36	54	31	47	28	42	26	38
#6	47	71	43	65	37	56	34	50	31	46
#7	69	103	63	94	54	81	49	73	44	67
#8	78	117	72	107	62	93	56	83	51	76
#9	88	132	81	121	70	105	63	94	57	86
#10	100	149	91	136	79	118	71	106	64	96
#11	110	165	101	151	87	131	78	117	71	107
#14	102 *	153 *	93 *	140 *	81 *	121 *	72 *	108 *	66 *	99 *
#18	136 *	204 *	124 *	186 *	107 *	161 *	96 *	144 *	88 *	132 *

TYPICAL TOP BAR LAP SPLICE LENGTH SCHEDULE

BAR SIZE	f'c = 2500 PSI CASE 1	CASE 2	f'c = 3000 PSI CASE 1	CASE 2	f'c = 4000 PSI CASE 1	CASE 2	f'c = 5000 PSI CASE 1	CASE 2	f'c = 6000 PSI CASE 1	CASE 2
#3	32	47	29	42	25	37	23	33	21	30
#4	42	62	38	56	33	49	30	45	28	41
#5	51	77	47	71	41	62	37	55	34	50
#6	62	93	56	85	49	73	45	65	41	60
#7	90	134	82	123	71	106	64	95	58	88
#8	102	153	94	140	81	121	73	108	67	99
#9	115	172	106	158	91	137	82	123	75	112
#10	130	194	119	177	103	154	93	138	84	125
#11	143	215	132	197	114	171	102	153	93	140
#14	133 *	199 *	121 *	182 *	106 *	158 *	94 *	141 *	86 *	129 *
#18	177 *	266 *	162 *	242 *	140 *	210 *	125 *	188 *	115 *	172 *

* NO LAP LENGTHS ALLOWED, NUMERICAL VALUES ARE FOR DEVELOPMENT LENGTH ONLY

NOTES:
1. DIMENSIONS ARE IN INCHES
2. CASE 1 AND 2 ARE DEFINED AS FOLLOWS
   BEAMS OR COLUMNS: CASE 1: COVER ≥ db AND c-c SPACING ≥ 2 db
   CASE 2: COVER < db AND c-c SPACING < 2 db
   ALL OTHERS: CASE 1: COVER ≥ db AND c-c SPACING ≥ 3 db
   CASE 2: COVER < db AND c-c SPACING < 3 db
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

4 S0.03 TYPICAL REBAR LAP SPLICE LENGTH SCHEDULE

NTS

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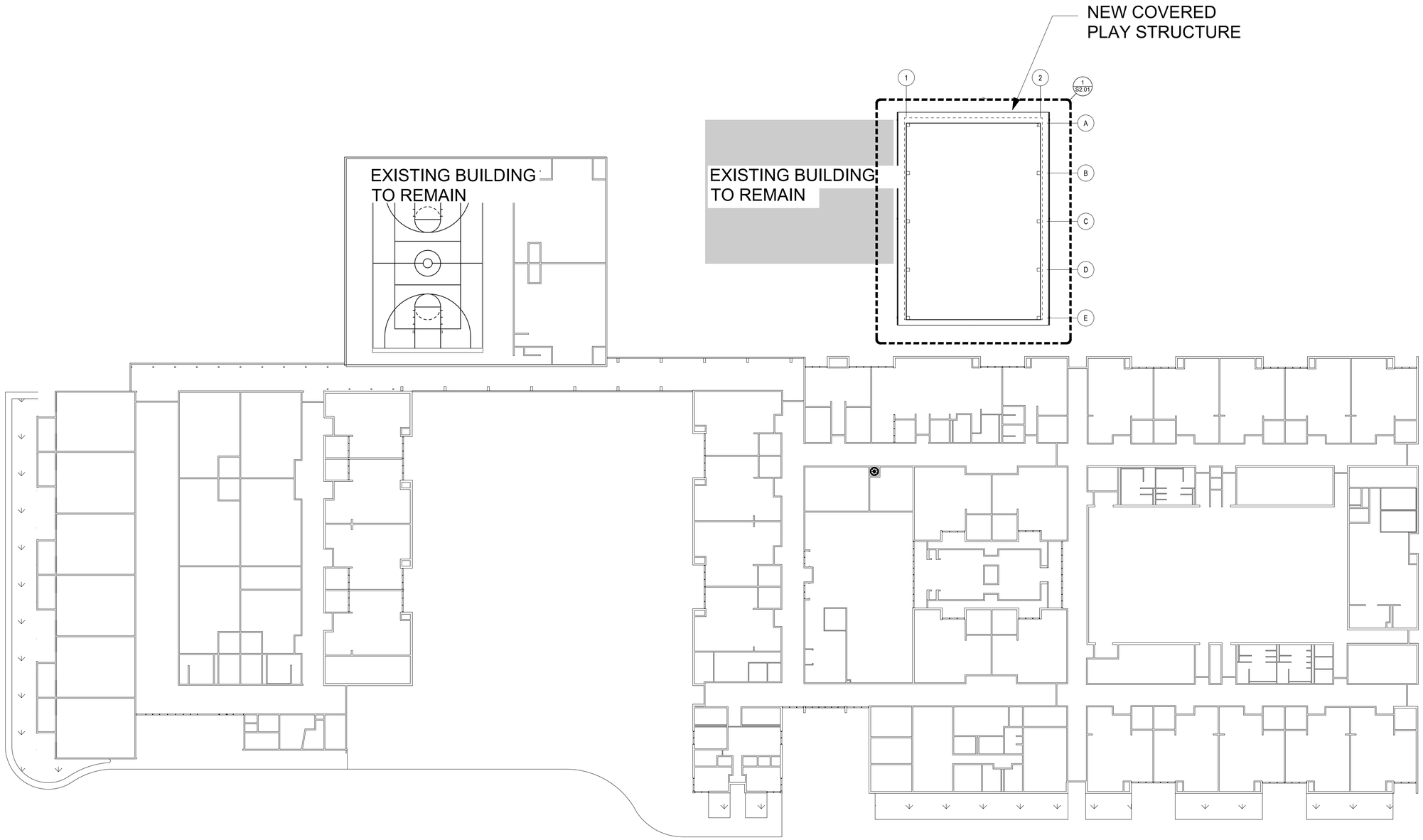

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1
S1.01
OVERALL PLAN

1" = 20'

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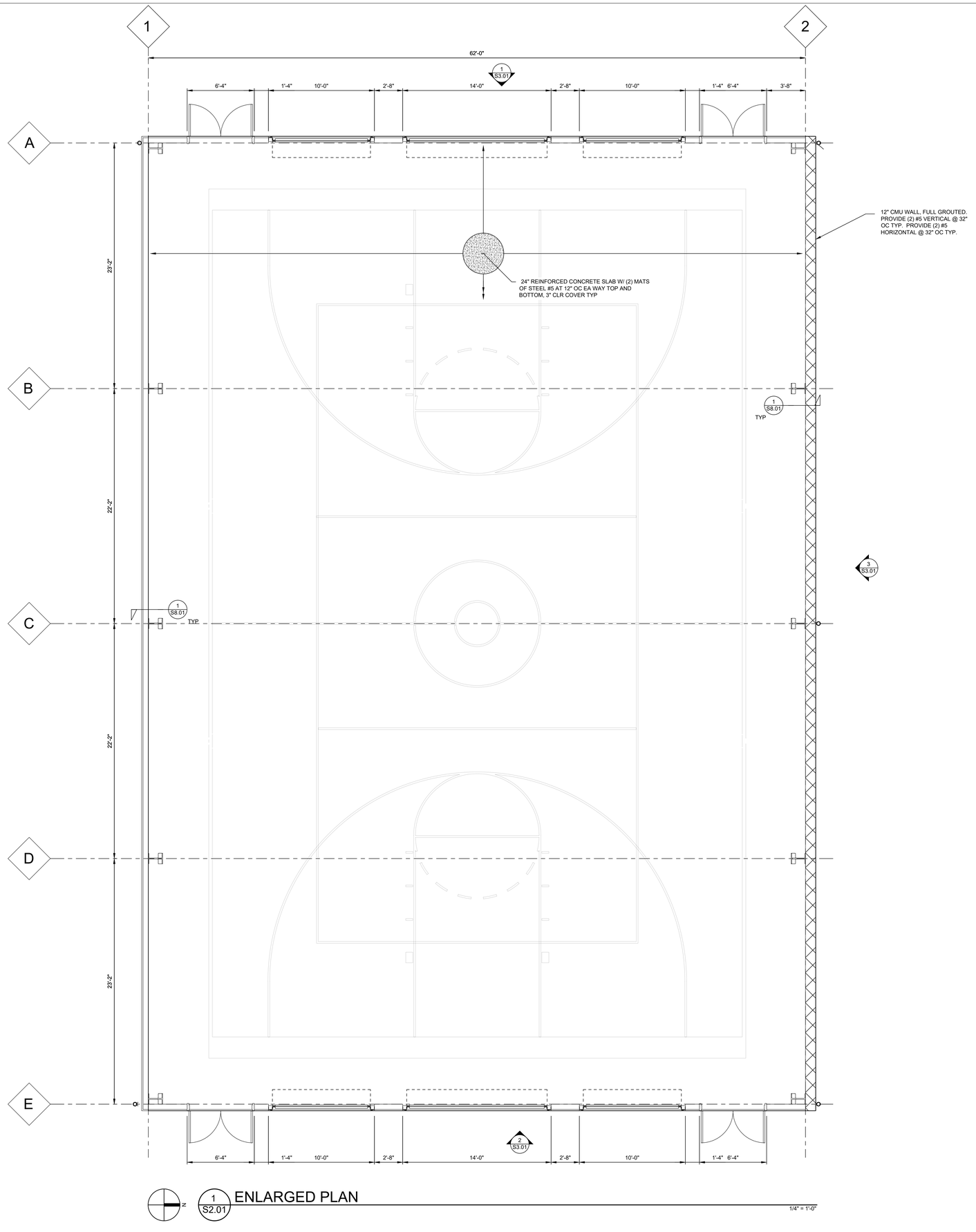

1 S2.01 ENLARGED PLAN

1/4" = 1'-0"

GENERAL FOUNDATION NOTES

1. TYPICAL SLAB SUBGRADE PREPARATIONS TO BE PER GEOTECH. REPORT.
2. SEE DETAILS 2/S8.01,
3. FOUNDATION AND COLUMN ANCHORAGES HAVE BEEN DESIGNED UTILIZING 'PINNED' CONNECTIONS AT ALL COLUMN BASES.
4. SEE SHEET S0.01 FOR LOADING USED FOR FOUNDATION DESIGN.

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ENLARGED PLAN

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S2.01

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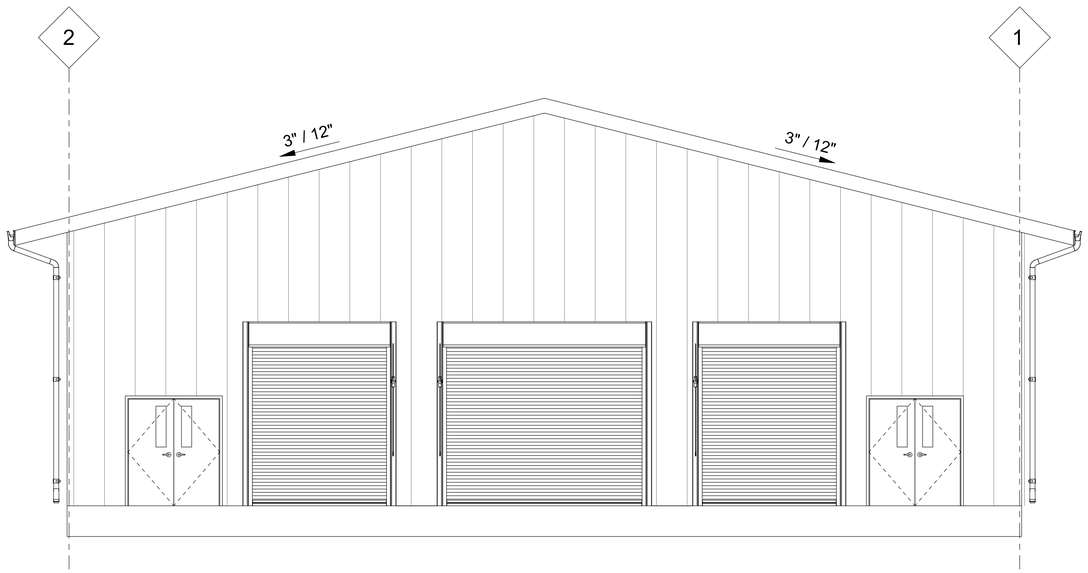
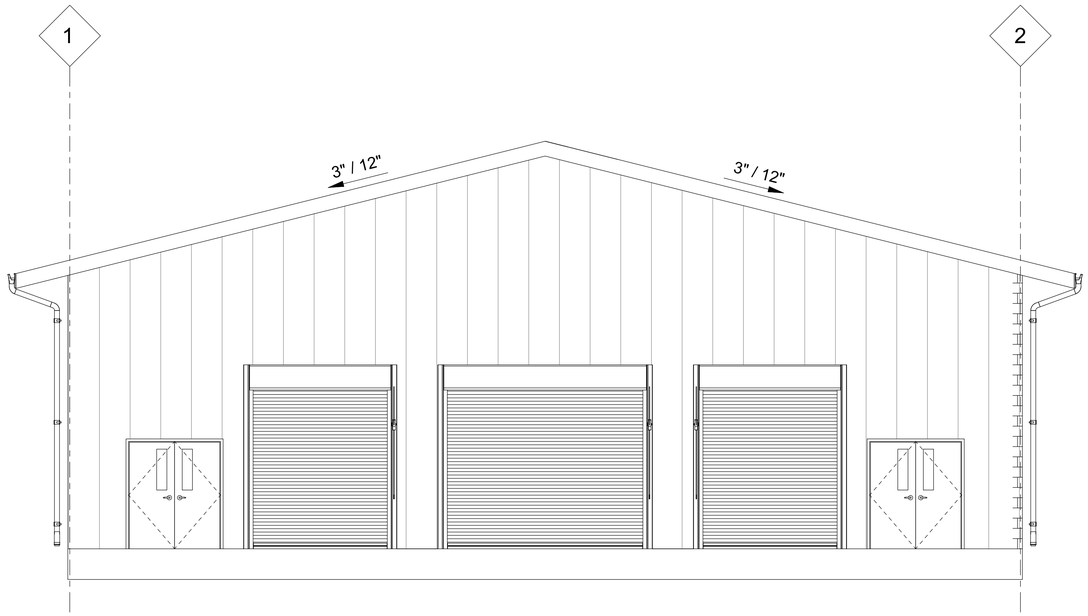


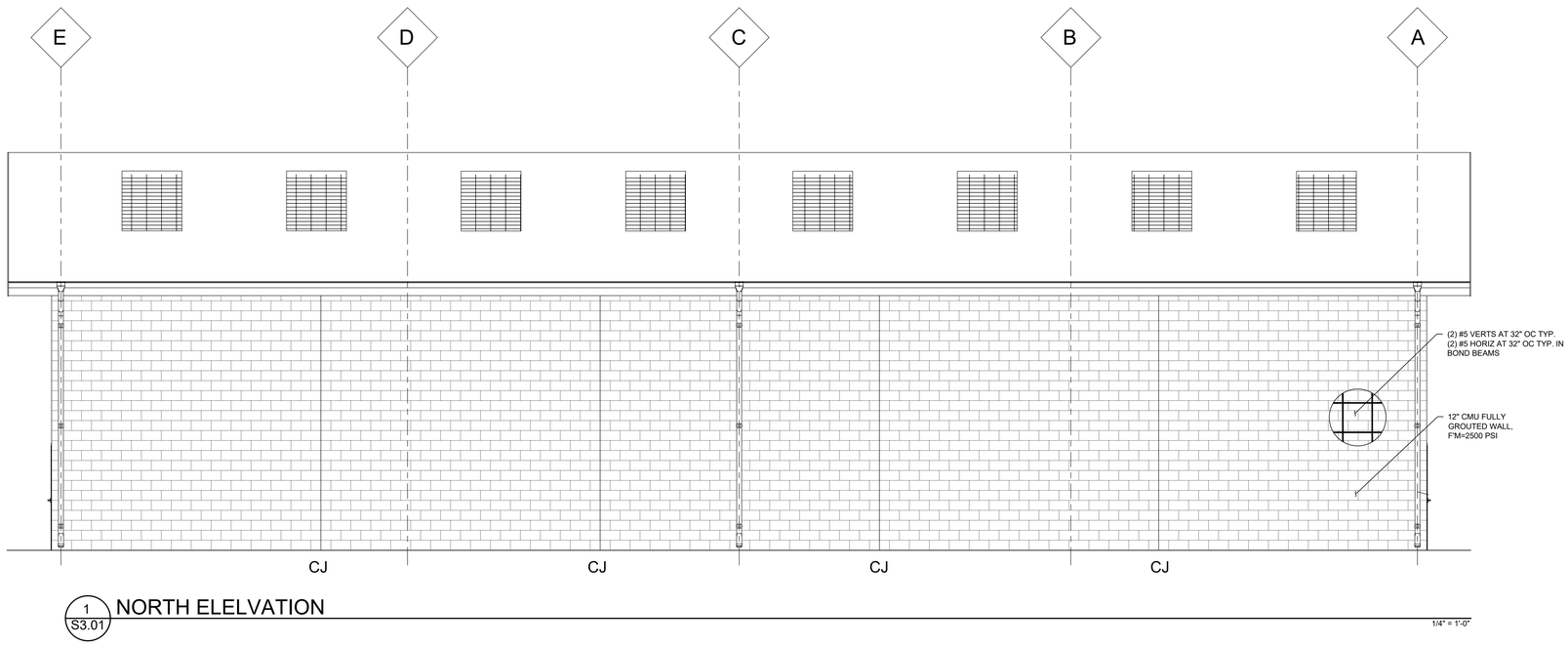
1 S3.01 WEST ELELVATION

1/4" = 1'-0"



2 S3.01 EAST ELELVATION

1/4" = 1'-0"



1 S3.01 NORTH ELELVATION

1/4" = 1'-0"

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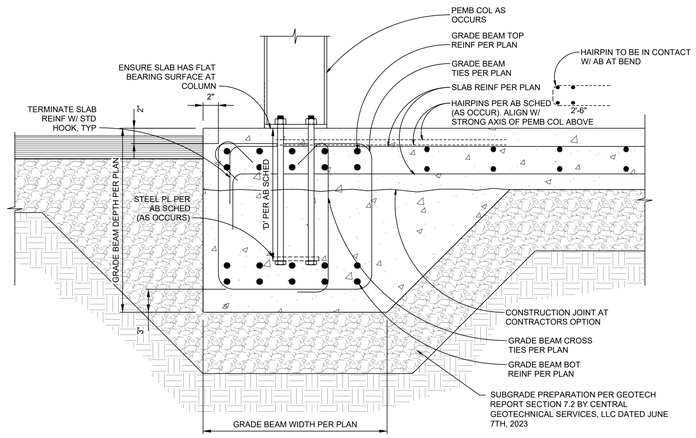
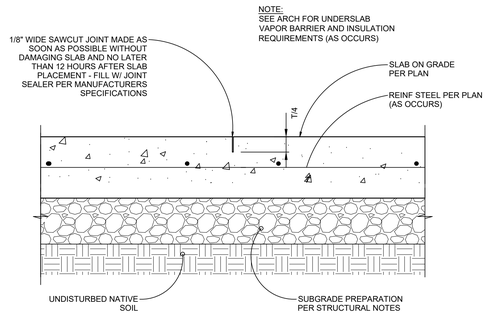


1 S8.01 GRADE BEAM AT PILE FOUNDATION

1 1/2" = 1'-0"



2 S8.01 TYPICAL SLAB CONSTRUCTION JOINT

1 1/2"=1'-0"

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CIVIL PLANS
SIUSLAW ES COVERED PLAY STRUCTURE
SIUSLAW SCHOOL DISTRICT

GENERAL CIVIL NOTES

GENERAL REQUIREMENTS

1. PRIOR TO START OF WORK, CONTRACTOR TO PROVIDE PRE-CONSTRUCTION RECORD DRAWING CROSS-REFERENCED WITH PHOTOGRAPHIC DOCUMENTATION OF ALL DAMAGED OR DEFECTIVE CURBS AND SIDEWALKS THAT ARE NOT SCHEDULED FOR REPAIR OR REPLACEMENT. PROVIDE ONE COPY TO THE ENGINEER, ONE TO THE OWNER AND MAINTAIN CONTRACTOR COPIES AS NEEDED. THESE DRAWINGS AND PHOTOS WILL SERVE AS THE MEANS TO IDENTIFY DAMAGE THAT OCCURRED DURING CONSTRUCTION. DAMAGE THAT OCCURS DURING CONSTRUCTION MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

2. REFER TO THE ARCHITECTURAL SITE PLAN FOR SITE LAYOUT DIMENSIONS SUCH AS BUILDING SETBACKS, BUFFER YARDS, RIGHT-OF-WAY DEDICATIONS, DRIVEWAY WIDTHS, PARKING STALL DIMENSIONS, PARKING STALL COUNTS, ISLAND LAYOUT AND PEDESTRIAN WALKWAY WIDTHS.

3. THE SURVEYOR OR OTHER PERSON STAKING THE BUILDING AND PARKING LOT LAYOUT IS RESPONSIBLE FOR DOING SO ACCORDING TO THE WRITTEN DIMENSIONS AND COORDINATES SHOWN ON THE MOST CURRENT SET OF PROJECT PLANS. POINTS EXTRACTED FROM ELECTRONIC FILES MAY NOT EXACTLY MATCH THE DESIGNER'S INTENDED LAYOUT AS DIMENSIONED. WRITTEN DIMENSIONS ON THE PLANS GOVERN OVER ELECTRONIC DATA. PLANS SHOULD NOT BE SCALED. CONTACT ARCHITECT AND/OR ENGINEER TO VERIFY DIMENSIONS THAT ARE NOT CLEARLY PROVIDED ON THE PLANS.

4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP IN PUBLIC RIGHT-OF-WAY OR EASEMENT TO CONFORM TO "DESIGN STANDARDS" AND "STANDARD CONSTRUCTION SPECIFICATIONS" OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL AUTHORITY HAVING JURISDICTION. FACILITIES WITHIN ANOTHER APPROVING AGENCIES JURISDICTION SHALL CONFORM TO THAT AGENCY'S CONSTRUCTION SPECIFICATIONS. OTHER AGENCIES MAY INCLUDE CITY, COUNTY, OREGON HEALTH DIVISION (OHD) AND THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ).

5. REFERENCES TO STANDARD DRAWING NUMBERS REFER TO STANDARD DRAWINGS OF THE LOCAL AUTHORITY HAVING JURISDICTION UNLESS NOTED OTHERWISE.

6. CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM THE PUBLIC WORKS DEPARTMENT OF THE LOCAL AUTHORITY HAVING JURISDICTION AND SHALL CONTACT CONSTRUCTION MANAGEMENT (DURING WORKING HOURS) 48 HOURS PRIOR TO START OF ANY WORK.

7. ANY CHANGE IN CONSTRUCTION AFTER PLAN APPROVAL MUST BE SUBMITTED IN WRITING AND APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO CHANGE AS REQUIRED BY THAT JURISDICTION'S STANDARD CONSTRUCTION SPECIFICATIONS.

8. CONTRACTOR SHALL PROCURE, PAY ALL COSTS FOR, AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE LOCAL JURISDICTION OR APPROVING AUTHORITY. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES AND COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER, AND STORM SEWER FACILITIES, INCLUDING SERVICES AND INSPECTIONS BY THE GOVERNING JURISDICTIONS. COSTS SHALL INCLUDE AS APPLICABLE BUT NOT BE LIMITED TO FEES FOR CONNECTION, TAPPING, INSPECTION, TESTING, CHLORINATION, WATER METERS, BACKFLOW CERTIFICATIONS, OR OTHER SIMILAR OR RELATED COSTS.

9. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION. WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION, THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT.

10. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.

11. ANY INSPECTION BY THE CITY, COUNTY OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES, AND AGENCY REQUIREMENTS.

12. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON THEY WILL RECORD ALL APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE ENGINEER, LOCAL JURISDICTION OR OWNER'S REPRESENTATIVE UPON REQUEST. FAILURE TO CONFORM TO THIS REQUIREMENT MAY RESULT IN DELAY IN PAYMENT AND/OR FINAL ACCEPTANCE OF THE PROJECT.

13. UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER SHOWING ALL LENGTHS, DEPTHS, INVERTS, AND LOCATIONS OF COMPLETED WORK. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND SECURING OF ALL SURVEYING SERVICES NECESSARY TO ACCURATELY OBTAIN "AS-BUILT" INFORMATION. ALL INFORMATION SHOWN ON THE CONTRACTOR'S FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.

14. CONTRACTOR SHALL PROCURE AND CONFORM TO DEQ STORMWATER PERMIT NO. 1200C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRE OR MORE ARE DISTURBED.

15. CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A LAND SURVEYOR LICENSED IN THE STATE OF OREGON TO ESTABLISH CONSTRUCTION CONTROL AND PERFORM INITIAL CONSTRUCTION SURVEYS TO ESTABLISH THE LINES AND GRADES OF IMPROVEMENTS AS INDICATED ON THE DRAWINGS. STAKING FOR BUILDINGS, STRUCTURES, CURBS, GRAVITY DRAINAGE PIPES/STRUCTURES AND OTHER CRITICAL IMPROVEMENTS SHALL BE COMPLETED USING EQUIPMENT ACCURATE TO 0.04 FEET HORIZONTALLY AND 0.02 FEET VERTICALLY, OR BETTER. USE OF GPS EQUIPMENT FOR CONSTRUCTION STAKING OF THESE IMPROVEMENTS IS PROHIBITED. AT THE DESIGN ENGINEER'S REQUEST, THE REGISTERED PROFESSIONAL SURVEYOR SHALL PROVIDE THE DESIGN ENGINEER WITH COPIES OF ALL GRADE SHEETS FOR CONSTRUCTION STAKING PERFORMED FOR THE PROJECT.

16. GEOTECHNICAL INVESTIGATION AND REPORT -- THE DESIGN IS BASED ON OWNER-ACCEPTED RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT PREPARED BY CENTRAL GEOTECHNICAL SERVICES, LLC DATED JUNE 7, 2024.

17. VAULTS SHALL BE DESIGNED TO RESIST BUOYANCY. ASSUME GROUND WATER IS AT FINISH GROUND ELEVATION UNLESS A LOWER ELEVATION IS SUBSTANTIATED BY GEOTECHNICAL REPORT OR OTHER INFORMATION APPROVED BY ENGINEER AND/OR LOCAL JURISDICTION.

18. AS PART OF FINAL CLEANUP, CONTRACTOR IS RESPONSIBLE TO CLEAN AND FLUSH ALL STORM DRAINAGE STRUCTURES AND PIPING FROM INLETS TO POINT OF DISPOSAL. ALL DEBRIS REMOVED FROM THE SYSTEM IS TO BE REMOVED FROM THE SITE.

EXISTING UTILITIES AND FACILITIES

19. COORDINATION AND NOTIFICATION WITH LOCAL JURISDICTION AND UTILITY COMPANIES:
    a. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
    b. OREGON LAW REQUIRES THE CONTRACTOR 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. COPIES OF THE RULES ARE AVAILABLE BY CALLING THE OREGON UTILITY NOTIFICATION CENTER AT (503) 232-1987.
    c. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AND EACH UNDERGROUND UTILITY AT LEAST 48 BUSINESS-DAY HOURS PRIOR TO EXCAVATING, BORING, OR POTHOLING. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING DISCOVERED SURVEY MONUMENTS OF RECORD (INCLUDING BUT NOT LIMITED TO PROPERTY AND STREET MONUMENTS) PRIOR TO CONSTRUCTION. IF ANY SURVEY MONUMENTS ARE REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OREGON TO REFERENCE AND REPLACE ALL SUCH MONUMENTS PRIOR TO FINAL PAYMENT. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY PER ORS 209.150.

21. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS, WHERE NEW CONNECTIONS ARE TO BE MADE, OR WHERE EXISTING CONNECTIONS ARE TO BE REMOVED. ALL UTILITY CROSSINGS MARKED OR SHOWN ON THE DRAWINGS SHALL BE POTHOLED USING HAND TOOLS OR OTHER NON-INVASIVE METHODS PRIOR TO EXCAVATING OR BORING. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING FIELD VERIFICATIONS AND EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO AVOID DELAYING THE WORK DUE TO GRADE MODIFICATIONS, HORIZONTAL ALIGNMENT MODIFICATIONS, OR ANY OTHER REASON. IF GRADE OR ALIGNMENT MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, AND THE DESIGN ENGINEER OR THE OWNER'S REPRESENTATIVE SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION.

22. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE LOCAL JURISDICTION AND OWNER'S REPRESENTATIVE.

23. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES AFTER APPROPRIATE VERIFICATION PROCEDURES HAVE TAKEN PLACE.

24. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.

25. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH REMOVING OR ABANDONING ANY SEPTIC TANKS, WELLS (INCLUDING BOREHOLE PIEZOMETERS) AND FUEL TANKS ENCOUNTERED AS PER REGULATING AGENCY REQUIREMENTS. WHEN SHOWN ON THE DRAWINGS, THESE STRUCTURES SHALL BE REMOVED OR ABANDONED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY SEPTIC TANKS, WELLS, OR FUEL TANKS NOT SHOWN ON THE DRAWINGS, AND OBTAIN CONCURRENCE FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A DETAILED COST BREAKDOWN OF ALL WORK RELATED TO REMOVING OR ABANDONING SAID STRUCTURES. THE CONTRACTOR WILL BE REIMBURSED ON A TIME & MATERIALS BASIS OR AT A NEGOTIATED PRICE AS AGREED BY THE OWNER.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.

TRAFFIC CONTROL

27. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES (AND ALL OTHER TRAFFIC CONTROL DEVICES REQUIRED) PER CITY REQUIREMENTS IN ACCORDANCE WITH THE CURRENT MUTCD (INCLUDING OREGON AMENDMENTS). ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY. PRIOR TO ANY WORK IN THE EXISTING PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL PLAN TO THE CITY FOR REVIEW AND ISSUANCE OF A LANE CLOSURE OR WORK IN RIGHT-OF-WAY PERMIT.

SUBMITTALS, TESTING AND INSPECTION

28. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS AND/OR CORRECTIVE MEASURES ARISING FROM UNINSPECTED WORK.

29. THE SPECIFICATIONS OUTLINE THE REQUIRED SUBMITTALS AND MINIMUM TESTING AND INSPECTION REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR HAS THE RESPONSIBILITY OF OBTAINING ALL NECESSARY TESTING, INSPECTIONS OR OBSERVATIONS FOR ALL WORK PERFORMED, REGARDLESS OF WHO IS RESPONSIBLE FOR PAYMENT. COST FOR RETESTING SHALL BE BORNE BY THE CONTRACTOR.

GRADING, DRAINAGE, CURBS AND SIDEWALKS

30. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENT BOXES, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE. VERIFY THAT ALL VALVE BOXES AND RISERS ARE CLEAN AND CENTERED OVER THE OPERATING NUT.

31. CONTRACTOR SHALL SEED AND MULCH (UNIFORMLY BY HAND OR HYDRO-SEED) ALL EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED, INCLUDING TRENCH RESTORATION AREAS. IF THE CONTRACTOR FAILS TO APPLY SEED AND MULCH IN A TIMELY MANNER DURING PERIODS FAVORABLE FOR GERMINATION, OR IF THE SEEDED AREAS FAIL TO GERMINATE, THE OWNER REPRESENTATIVE MAY (AT HIS DISCRETION) REQUIRE THE CONTRACTOR TO INSTALL SOD TO COVER SUCH DISTURBED AREAS.

32. CONTRACTOR SHALL CONSTRUCT ALL ACCESS RAMPS IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.

33. WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAWCUT AND REMOVED AT A TOOLED JOINT UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE LOCAL JURISDICTION. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.

34. REPLACE SIDEWALK AND CURB DAMAGED BY CONSTRUCTION ACTIVITY PER LOCAL JURISDICTION'S STANDARD DRAWINGS.

PIPED UTILITIES

35. PIPE BEDDING AND BACKFILL IN PUBLIC RIGHT-OF-WAY OR EASEMENT TO BE DONE PER LOCAL JURISDICTION'S STANDARD CONSTRUCTION SPECIFICATIONS, SEE PLAN FOR EXTENTS.

36. ALL TAPPING OF EXISTING MUNICIPAL SANITARY SEWER, WATER LINES, STORM DRAIN MAINS, AND MANHOLES MUST BE DONE BY CITY FORCES.

37. ALL PIPED UTILITIES ABANDONED IN PLACE SHALL HAVE ALL OPENINGS CLOSED WITH CONCRETE PLUGS WITH A MINIMUM LENGTH EQUAL TO 2 TIMES THE DIAMETER OF THE ABANDONED PIPE.

38. UNLESS SPECIFIED OTHERWISE, ALL NON-METALLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE 12-GAUGE STRANDED OR SOLID COPPER INSULATED HIGH MOLECULAR WEIGHT POLYETHYLENE (HMW-PE) TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE. THE HMW-PE INSULATED COVER SHALL BE A MINIMUM 45 MIL THICK AND UL RATED FOR 140 °F. USE BLUE WIRE FOR WATER AND GREEN WIRE FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, CATCH BASINS, MANHOLES AND LATERAL CLEAN OUT BOXES. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE. ALL TRACER WIRE SPLICES SHALL BE MADE WITH WATERPROOF SPLICES OR WATERPROOF/CORROSION RESISTANT WIRE NUTS.

39. NO TRENCHES IN SIDEWALKS, ROADS, OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORKDAY AND NORMAL TRAFFIC AND PEDESTRIAN FLOWS RESTORED.

WATER SYSTEM

40. MAINTAIN 6" CLEAR BETWEEN DOMESTIC WATERLINES AND STORM DRAIN LINES. BACKFILL WITH CRUSHED AGGREGATE.

SANITARY AND STORM DRAIN SYSTEMS

41. CATCH BASINS AND JUNCTION BOXES SHALL BE SET SQUARE WITH BUILDINGS OR WITH THE EDGE OF THE PARKING LOT OR STREET WHEREIN THEY LIE. STORM DRAIN INLET STRUCTURES AND PAVING SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING WATER.

42. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ALL STORM DRAIN CONNECTIONS SHALL BE BY MANUFACTURED TEES OR SADDLES.

43. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL STORM PIPE INLETS & OUTFALLS SHALL BE BEVELED FLUSH TO MATCH THE SLOPE WHEREIN THEY LIE.

44. SWEEP (DEFLECT) STORM SEWER PIPE INTO CATCH BASINS AND MANHOLES AS REQUIRED. JOINT DEFLECTION SHALL NOT EXCEED 5 DEGREES OR MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS LESS.

45. BEFORE FINAL ACCEPTANCE, FLUSH AND CLEAN ALL STORM DRAINS, AND REMOVE ALL FOREIGN MATERIAL FROM THE MAINLINES, MANHOLES, CATCH BASINS AND OTHER STRUCTURES.

46. CLEANOUTS ON STORM DRAIN PIPING TO BE SPACED MAXIMUM OF 100 FEET APART. CLEANOUTS ARE REQUIRED FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES (OPSC 719).

47. CLEANOUT COVER TO BE 18" TALL CAST IRON VALVE BOX AND COVER. INSTALL FLUSH WITH FINISHED GRADE, UNLESS NOTED OTHERWISE.

CIVIL LEGEND

SYMBOLS

- 3" W — PROPOSED UTILITY LINE
- 8" SD — EXISTING UTILITY LINE
- 8" SD — EXISTING UTILITY LINE TO BE REMOVED
- FLOW DIRECTION
- PIPE DIAMETER
- UTILITY TYPE
- 8" SS
- 100 LF PVC S=0.02 — SLOPE
- MATERIAL
- LENGTH
- PROPERTY LINE
- CENTER LINE
- 168 — EXISTING CONTOUR LINE
- 168 — PROPOSED CONTOUR LINE
- CONCRETE CURB
- EXISTING FENCE
- PROPOSED FENCE
- SEDIMENT FENCE
- EASEMENT LINE
- PROPOSED BUILDING
- EXISTING BUILDING
- EXISTING BUILDING TO BE REMOVED
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- DITCH / SWALE FLOW LINE

PROPOSED / EXISTING

- WATER METER
- BACKFLOW VAULT
- CATCH BASIN
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- JUNCTION BOX
- FIRE HYDRANT
- DCDA — DOUBLE CHECK DETECTOR ASSEMBLY VAULT
- FIRE DEPARTMENT CONNECTION, F.D.C.
- BLOW-OFF ASSEMBLY WITH TIE BACKS
- VALVE
- T.B. — THRUST BLOCK
- C.O. — CLEAN OUT
- UTILITY POLE
- UTILITY POLE GUY WIRE
- T — TRANSFORMER
- TELEPHONE PEDESTAL
- FG###.## — PROPOSED GRADE
- × GRADE — EXISTING GRADE
- SIGN & POST
- SLOPE ARROW FROM HIGH TO LOW
- DITCH OR SWALE FLOW LINE
- OR — LANDSCAPING BY OTHERS
- EXISTING ASPHALT PAVING
- PROPOSED ASPHALT PATCH
- EXISTING CONCRETE PAVING
- PROPOSED CONCRETE PAVING

ABBREVIATIONS

MATERIAL

AC	ASPHALTIC CONCRETE
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
CHDPE	HIGH DENSITY POLYETHYLENE
CDB	CONTROLLED DENSITY BACKFILL
C, CONC	CONCRETE
CI	CAST IRON
GR	GRAVEL
RT	REINFORCED TURF

UTILITY

SS	SANITARY SEWER
SD	STORM DRAIN
JB	JUNCTION BOX
CO	CLEAN OUT
G	GAS
W	WATER
UPWR	UNDER GROUND POWER
OH PWR	OVER HEAD POWER
TEL	TELECOMMUNICATIONS
FS	FIRE SERVICE
FDC	FIRE DEPARTMENT CONNECTION
FD	FOOTING DRAIN
FO	FIBER OPTICS
OH	OVERHEAD
PWDS	PUBLIC WORKS DESIGN STANDARDS
UPC	UNIFORM PLUMBING CODE
FRAN	FRANCHISE UTILITIES

GENERAL

ASSY	ASSEMBLY
BO	BLOW OFF
CB	CATCH BASIN
℄	CENTER LINE
EP	EDGE OF PAVEMENT
ELEV	ELEVATION
(E) OR EX	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
HYD	FIRE HYDRANT
GV	GATE VALVE
INV	INVERT
MH	MAN HOLE
M	METER, MAIN
PP	POWER POLE
ℙ	PROPERTY LINE
ROW	RIGHT-OF-WAY
STD	STANDARD
SVC	SERVICE
TC	TOP OF CURB
TYP	TYPICAL
EG	EDGE OF GRAVEL
EC	EDGE OF CONCRETE
BFV	BUTTERFLY VALVE
PUE	PUBLIC UTILITY EASEMENT
TW	TOP OF WALL
G, GUT	GUTTER
(N)	NEW
DS	DOWNSPOUT
FD	FLOOR DRAIN
RB	REMOVABLE BOLLARD

CIVIL SHEET INDEX

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 952-001-0100. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.

TEMPORARY BENCHMARK INFORMATION
ELEV.= 100.00' (ASSUMED DATUM)

DESCRIPTION:

PK NAIL SET INTO ASPHALT AT SOUTHWEST CORNER OF PAVED PLAY AREA APPROXIMATELY 415' SOUTH OF PROPOSED COVERED PLAY STRUCTURE SOUTHWEST CORNER.

Soderstrom Architects
1331 NW Lovejoy Street,
Suite 775
Portland, OR 97209
T 503-228-5617
sdra.com

Project
Siuslaw ES Covered Play Structure
Siuslaw School District
2221 Oak Street
Florence, OR 97439

Consultant
Locke CIVIL & STRUCTURAL ENGINEERS NW
289 E Ellendale Ave, Suite 703
Dallas, Oregon 97338
503-364-8207
LockeEngineers.com
J.O. 22015-1

Revisions

No.	Description	Date

Stamp
REGISTERED PROFESSIONAL ENGINEER
16,650
DIGITAL SIGNATURE
OREGON
JULY 20, 1982
GREG D. LOCKE
EXPIRES: 12-31-2024
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Issuance
IFB

Date
2.2.2024

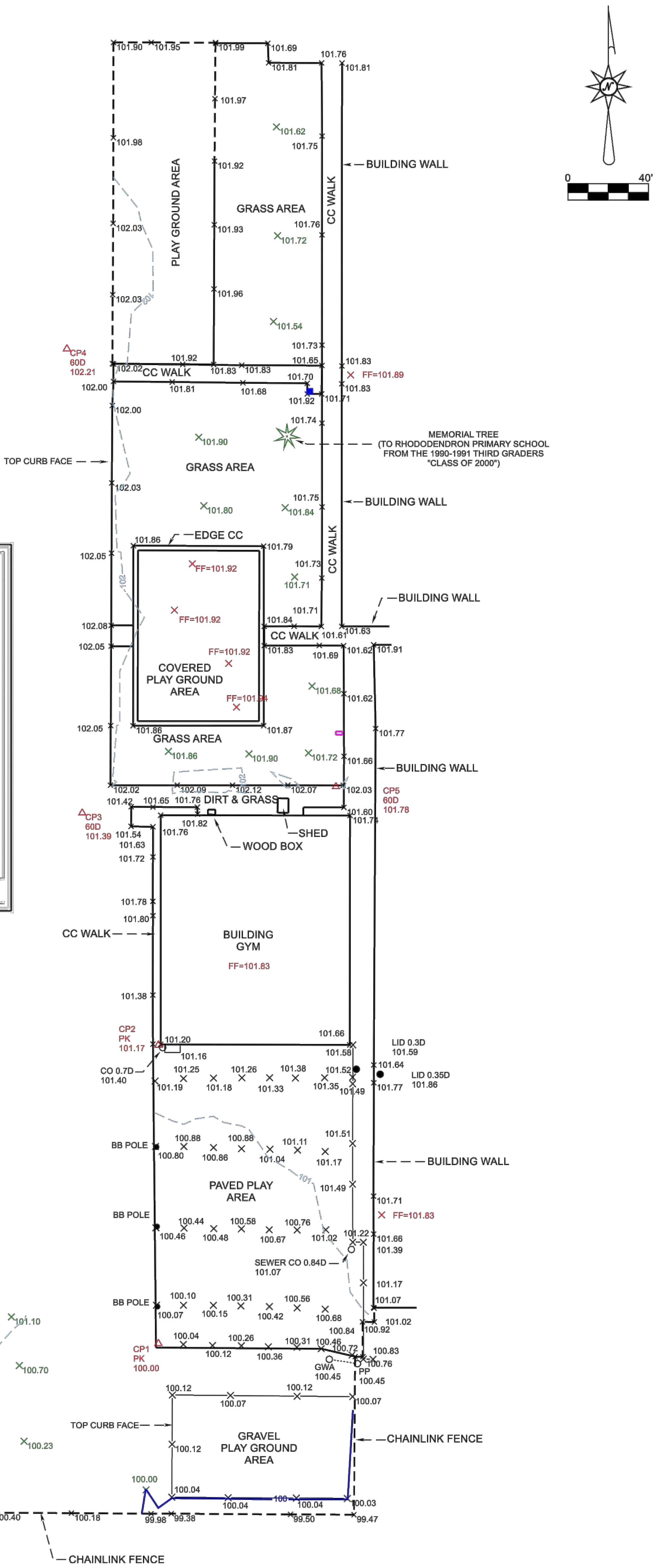
Project Number
22006

Drawing Title
CIVIL NOTES, LEGEND, & SHEET INDEX

Sheet No
C0.01

RECORD OF SITE SURVEY
FOR: SIUSLAW SCHOOL DISTRICT 97J
MAP 18-12-22-00 TAX LOT 300
FLORENCE, LANE COUNTY, OR

NOTE: ELEVATION BASED ON AN ASSUMED DATUM



LEGEND

△	SURVEY CONTROL POINT
✳	16" DIA CONIFER
×	SPOT ELEVATION
■	DRINKING FOUNTAIN
- - - -	CHAINLINK FENCE
PP	POWER POLE
GWA	GUYWIRE ANCHOR
FF	FINISH FLOOR

FILE NAME 22-128.TRV		
SCALE 40 Ft/In	DATE 3-6-2023	DRAWN BY RBW
JOB 22-128	REVISION 1/1	SHEET 1/1

This map drawn with TRAVERSE PC, Software

REGISTERED
PROFESSIONAL
LAND SURVEYOR
[illegible]
OREGON
ROBERT B. WARD JR.
JULY 30 1976
1091
EXPIRES: 6/30/2024

NORTHWEST Land Surveying, Inc.
(541) 997-9201
WWW.NWLSINC.COM
P.O. Box 2827
Florence, OR 97439
Fax (541) 902-0743

Traverse PC

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IFB

Date
2.2.2024

Project Number
22006

Drawing Title
EXISTING CONDITIONS SURVEY

Sheet No
C0.02

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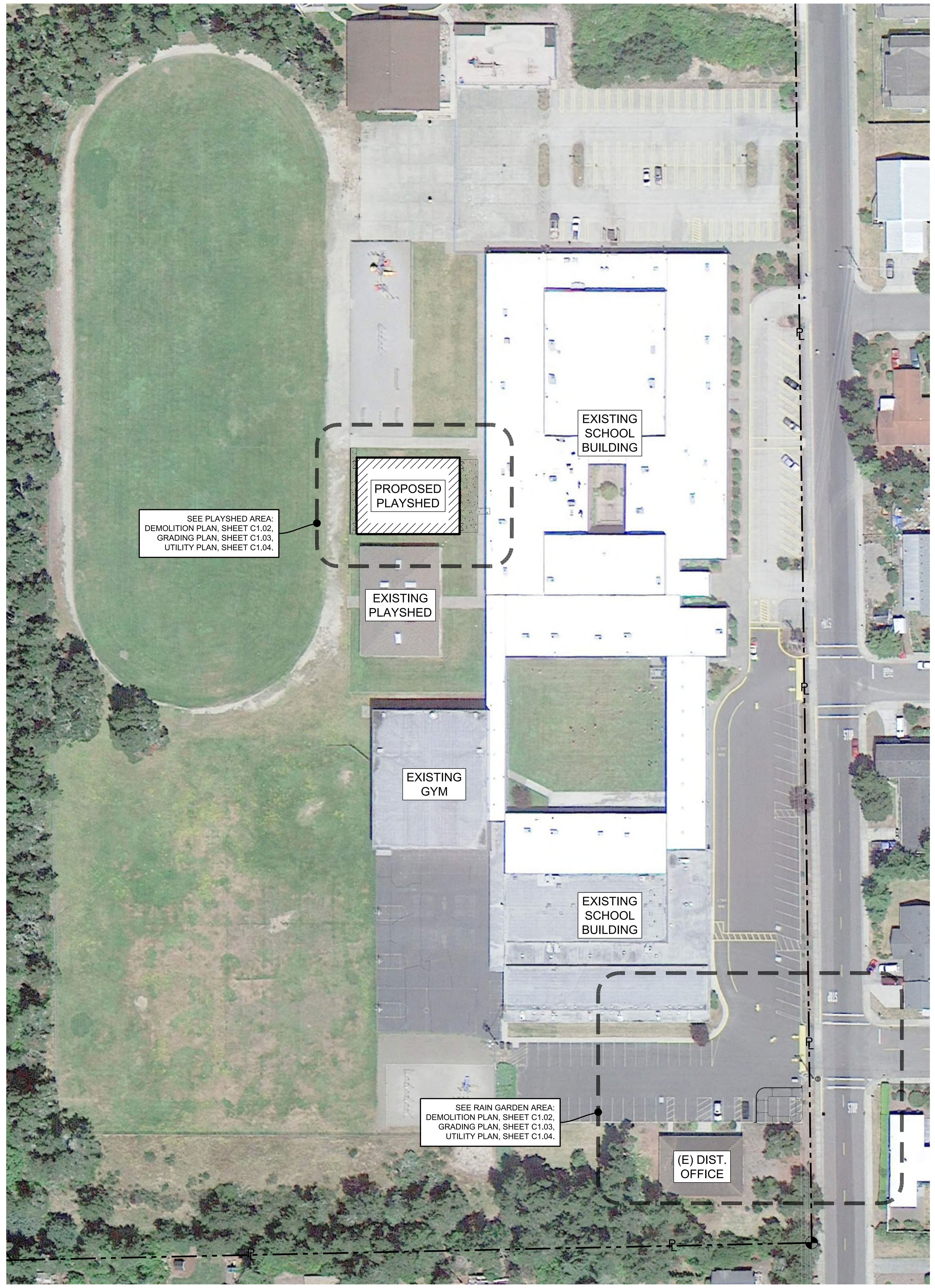

CIVIL KEY PLAN

1" = 50'-0"

0' 50' 100'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")

02-01-2024-4:27 PM
L:\2022\22015-1 SDRA Siuslaw SD\Civil\22015 SDRA Siuslaw ES Play Structure - Plans.dwg

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Architects

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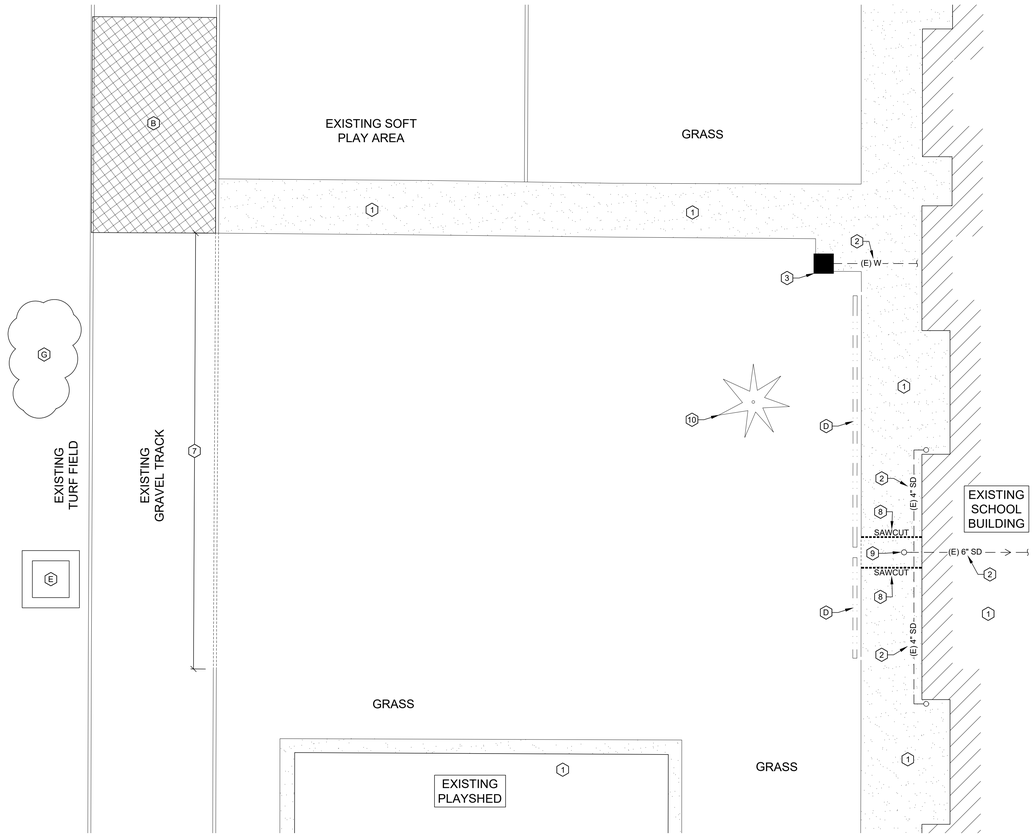
Issuance
IFB

Date
2.2.2024

Project Number
22006

Drawing Title
CIVIL KEY PLAN

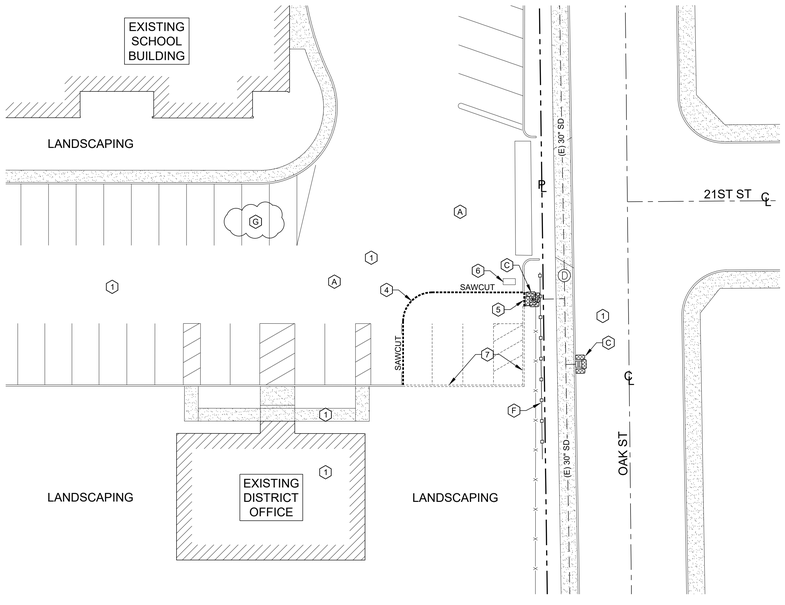
Sheet No
C1.01



BUILDING AREA DEMOLITION PLAN

1" = 10'-0"

0' 10' 20'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")



RAIN GARDEN AREA DEMOLITION PLAN

1" = 20'-0"

0' 20' 40'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")

KEYED EROSION & SEDIMENT CONTROL NOTES (##) :

GENERAL
THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. IMPLEMENTATION OF "WET WEATHER" CONSTRUCTION MEASURES ARE REQUIRED BETWEEN OCTOBER 1 AND MAY 31. IN ADDITION TO MINIMUM SPECIFIC BMP'S IDENTIFIED IN THESE KEYED NOTES, CONTRACTOR AND THER SITE INSPECTOR ARE RESPONSIBLE TO FOLLOW ALL REQUIREMENTS OF THE "STANDARD NOTES FOR EROSION CONTROL PLANS" AND OF THE PERMIT AS ISSUED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR AND THEIR SITE INSPECTOR SHALL BE RESPONSIBLE TO ADD TO THE BMP'S NOTED HERE AS NEEDED TO ENSURE THE INTEGRITY OF THE SYSTEM.

STANDARD DRAWINGS ARE LOCATED ON SHEET C5.02.

"STANDARD NOTES FOR EROSION CONTROL PLANS" ARE LOCATED ON SHEET C1.02.

AT CONCLUSION OF CONSTRUCTION ACTIVITIES, REMOVE ALL ESCP FEATURES AND RESTORE DISTURBED GROUND TO ORIGINAL SURFACE CONDITION AND MATERIAL. GRASS AREAS TO BE RESTORED ACCORDING TO GENERAL SEEDING NOTES.

A. IT IS ANTICIPATED THAT CERTAIN PHASES OF THE PROJECT WILL REQUIRE CONSTRUCTION SITE ACCESS VIA EXISTING PAVED DRIVEWAYS. PERFORM WHEEL AND EQUIPMENT CLEANING ACTIVITIES IN A LOCATION SUCH THAT SEDIMENT LADEN WASH WATER WILL BE CAPTURED AND FILTERED ONSITE. SWEEP PAVED AREAS AS NEEDED TO PREVENT TRACKING OFFSITE.

B. INSTALL CONSTRUCTION ENTRANCE PER STANDARD DRAWING RD1000, AND IN ACCORDANCE WITH STANDARD ESCP DRAWING NOTES. PERFORM ALL REQUIRED WHEEL CLEANING ACTIVITIES IN AREA SUCH THAT THE SEDIMENT DOES NOT ENTER THE RIGHT-OF-WAY BUT IS INSTEAD CAPTURED ON SITE. SWEEP PAVED PORTION OF CONSTRUCTION SITE ENTRANCE AS NEEDED TO MINIMIZE TRACKING OF SEDIMENT OFF SITE. AT CONCLUSION OF CONSTRUCTION ACTIVITIES, REMOVE CONSTRUCTION ENTRANCE AND RESTORE TO ORIGINAL SURFACE CONDITION. GRASS AREAS TO BE RESTORED ACCORDING TO GENERAL SEEDING NOTES.

C. PRIOR TO THE START OF CONSTRUCTION, PROTECT EXISTING STORMWATER INLETS PER STANDARD DRAWING RD1010 AND RD1015. MAINTAIN IN ACCORDANCE WITH STANDARD ESCP DRAWING NOTES UNTIL FINAL GROUND COVER IS ESTABLISHED OR INLET IS REMOVED.

D. DURING CONSTRUCTION, AS STORMWATER INLETS ARE CONSTRUCTED INSTALL INLET PROTECTION PER STANDARD DRAWING RD1010 AND RD1015. SEE UTILITY PLAN FOR LOCATION OF PROPOSED STORMWATER INLET TO BE INSTALLED. MAINTAIN IN ACCORDANCE WITH STANDARD ESCP DRAWING NOTES UNTIL FINAL GROUND COVER IS ESTABLISHED OR THE COMPLETION OF CONSTRUCTION, WHICHEVER IS LATER.

E. UNLESS CONCRETE OVERAGE IS HAULED OFF SITE, PROVIDE CONCRETE MANAGEMENT FACILITY PER STANDARD DETAIL RD1070 OR PORTABLE CONTAINMENT TANK AT CONTRACTOR'S OPTION, AND IN ACCORDANCE WITH STANDARD ESCP DRAWING NOTES. LOCATE DESIGNATED WASHOUT AREA AS FAR FROM STORM DRAINS, OPEN DITCHES OR WATER BODIES AS POSSIBLE (OVER 50' AWAY IS PREFERRED), MULTIPLE FACILITIES IN VARYING LOCATIONS AS NEEDED DURING THE LIFE OF THE PROJECT. AT CONCLUSION OF CONSTRUCTION ACTIVITIES, REMOVE CONCRETE MANAGEMENT FACILITY AND RESTORE LOCATION TO ORIGINAL SURFACE CONDITION. GRASS AREAS TO BE RESTORED ACCORDING TO GENERAL SEEDING NOTES.

F. INSTALL SEDIMENT BARRIER PRIOR TO THE START OF CONSTRUCTION. SILT FENCE PER CITY OF FLORENCE STANDARD DRAWING F-101. MAINTAIN IN ACCORDANCE WITH STANDARD ESCP DRAWING NOTES.

G. PROTECT STOCKPILES AND EXCAVATED SLOPES PER DETAIL DET6001 AND IN ACCORDANCE WITH STANDARD NOTES FOR EROSION CONTROL PLANS. CONSTRUCT MULTIPLE FACILITIES IN VARYING LOCATIONS AS NEEDED DURING THE LIFE OF THE PROJECT. RE-ESTABLISH PERMANENT GROUND COVER ONCE NO LONGER IN USE. GRASS AREAS TO BE RESTORED ACCORDING TO GENERAL SEEDING NOTES.

KEYED SITE DEMOLITION PLAN NOTES (##) :

GENERAL
DEMOLITION NOTES SPECIFICALLY CALLED OUT ON PLAN ARE IN ADDITION TO ANY INCIDENTAL OR OTHER DEMOLITION NECESSARY TO PERFORM THE REQUIRED WORK. NOT ALL REQUIRED DEMOLITION WORK MAY HAVE BEEN IDENTIFIED. SEE DEMO PLANS OF ARCHITECT AND OTHER CONSULTANTS FOR OTHER ITEMS OF DEMOLITION NOT RELATED TO CIVIL DESIGN.

REMOVAL OF AC IN SOME AREAS MAY ALSO REQUIRE REMOVAL OF BASE ROCK IN ORDER TO ACHIEVE THE PROPER FINISH ROCK ELEVATION PRIOR TO PAVING. LOCATION OF SAWCUTS AND EXTENTS OF PAVEMENT REMOVAL IS SCHEMATIC AND NOT NECESSARILY THE FULL EXTENT NEEDED TO PERFORM THE WORK. CONTRACTOR IS RESPONSIBLE TO INCLUDE WITHIN THEIR BID, THE EXTENT THEY FEEL IS NEEDED TO PROPERLY COMPLETE THE WORK.

PROTECT EXISTING PAVED DRIVEWAYS AND PARKING LOTS FROM DAMAGE FROM CONSTRUCTION OPERATION. CONTRACTOR SHALL REPAIR DAMAGED SURFACE SCHEDULED TO REMAIN AT THEIR OWN EXPENSE.

EXISTING UTILITIES ARE TO REMAIN FUNCTIONAL DURING ENTIRE PROJECT. LOCATIONS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY, ARCHIVE PLANS AND AVAILABLE RECORDS. TAKE PRECAUTIONS TO LOCATE AND PROTECT UTILITIES AGAINST DAMAGE. IDENTIFY AND MARK LOCATION OF WATER SHUTOFF VALVES WITH OWNER PRIOR TO START OF EXCAVATION.

1. PROTECT EXISTING BUILDINGS, SIDEWALKS, PAVED AREAS, DRIVEWAYS AND PARKING LOTS FROM DAMAGE FROM CONSTRUCTION OPERATION. CONTRACTOR SHALL REPAIR DAMAGED SURFACE AT THEIR OWN EXPENSE.
2. EXISTING UTILITIES TO REMAIN FUNCTIONAL DURING ENTIRE PROJECT. LOCATIONS ARE APPROXIMATE BASED ON EXISTING ARCHIVE PLANS. TAKE PRECAUTIONS TO LOCATE AND PROTECT UTILITIES AGAINST DAMAGE. IDENTIFY AND MARK LOCATION OF WATER SHUTOFF VALVES WITH OWNER PRIOR TO START OF EXCAVATION.
3. EXISTING DRINKING WATER FOUNTAIN TO REMAIN. PROTECT AGAINST DAMAGE DURING CONSTRUCTION.
4. SAWCUT EDGES OF AFFECTED ASPHALT AREA, EXCAVATE AND REMOVE AC IN PREPARATION FOR CONSTRUCTION OF NEW CURB AND AC PATCH. AREA INDICATED ON PLAN IS APPROXIMATE IN SIZE AND LOCATION. FIELD VERIFY EXTENTS NECESSARY TO PERFORM WORK.
5. SAWCUT EXISTING ASPHALT AT BACK OF EXISTING CURB LINE. REMOVE ASPHALT WEST OF THIS LINE. THE SMALL TONGUE OF ASPHALT SURROUNDING THE EXISTING AREA DRAIN SHOULD REMAIN.
6. EXISTING MAILBOX TO REMAIN, PROTECT FROM DAMAGE DURING CONSTRUCTION.
7. SAWCUT AND REMOVE SECTION OF EXISTING CURB.
8. SAWCUT AND REMOVE EXISTING SIDEWALK FOR EXTENTS REQUIRED FOR INSTALLATION OF JUNCTION BOX AND STORM DRAIN CONNECTION TO EXISTING AS DEPICTED ON UTILITY PLAN SHEET C1.04. CUT SIDEWALK AT FIRST TOOLED JOINT BEYOND REQUIRED WORK ZONE.
9. REMOVE EXISTING CLEANOUT COVER AND 1/16TH BEND. TAKE CARE TO PROTECT EXISTING DOWNSPOUT LATERALS AND PIPE DOWNSTREAM OF CLEANOUT FROM DAMAGE DURING CONSTRUCTION.
10. REMOVE AND DISPOSE OF EXISTING TREE AND/OR STUMP. CLEAR AND GRUB ROOT BALL.

STANDARD NOTES FOR EROSION CONTROL PLANS

A. APPROVAL OF THIS EROSION, SEDIMENT AND POLLUTION CONTROL PLAN (ESPCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)

B. THE IMPLEMENTATION OF THIS ESPCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESPCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

C. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

D. THE ESPCP FACILITIES 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 DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

E. THE ESPCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESPCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

F. THE ESPCP FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

G. THE ESPCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.

H. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

STANDARD NOTES FOR SEDIMENT FENCES

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2 INCH X 2 INCH POSTS AND ATTACH AS SHOWN ON DETAIL SHEET F-101.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6 INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
4. STANDARD OR HEAVY DUTY FILTER FABRIC FENCE SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2 INCH X 2 INCH POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP HILL SIDE OF THE SLOPED AREA.
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC FENCES SHALL BE INSPECTED BY APPLICANT/CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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DEMOLITION PLANS

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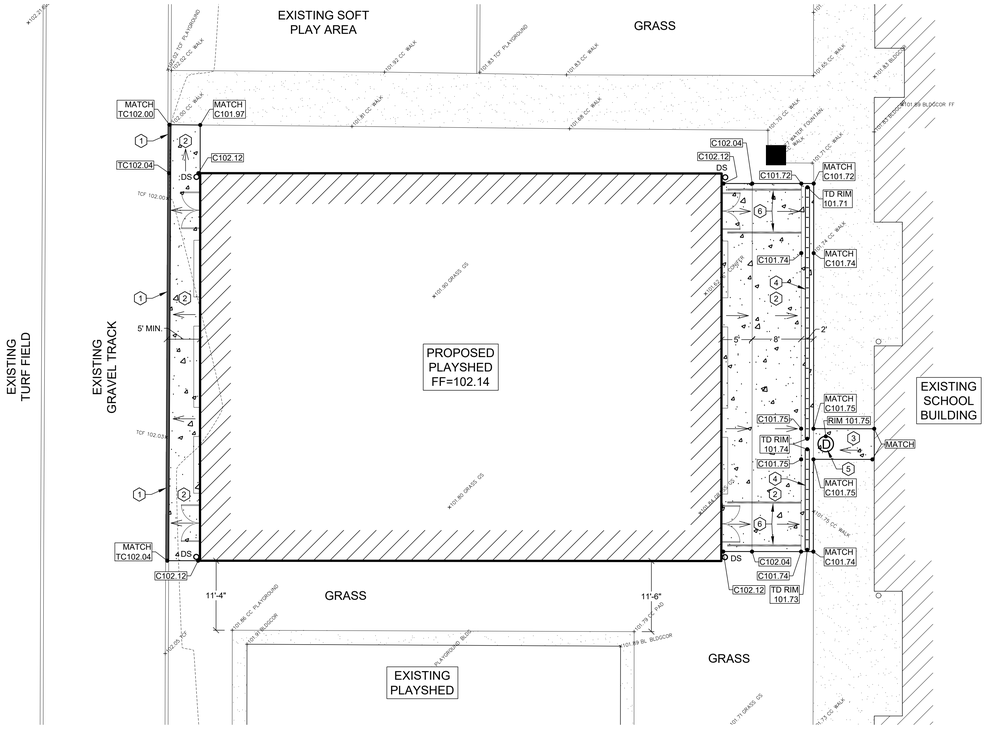
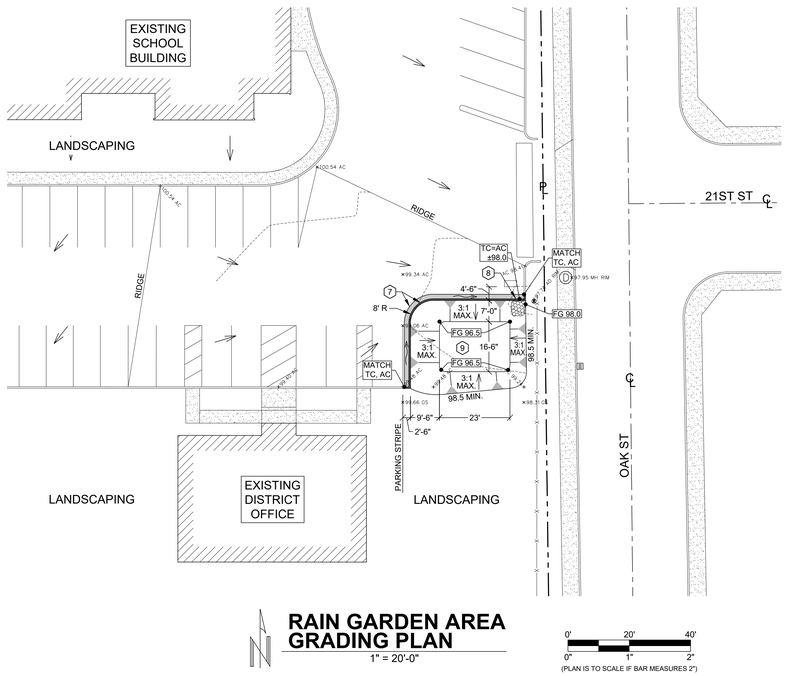
C1.02



BUILDING AREA GRADING PLAN

1" = 10'-0"

0' 10' 20'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")



RAIN GARDEN AREA GRADING PLAN

1" = 20'-0"

0' 20' 40'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")

KEYED GRADING PLAN NOTES (HH) :

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1. CONSTRUCT TYPE "C" CONCRETE CURB PER DETAIL 1 ON SHEET C5.01. EXTEND DEPTH OF CURB WHERE REQUIRED TO MATCH FULL DEPTH OF RUNNING TRACK GRAVEL SURFACE.
2. CONSTRUCT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET C5.01.
3. CONSTRUCT REPLACEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET C5.01. MATCH EXPOSED AGGREGATE TEXTURE OF EXISTING ADJACENT SIDEWALK.
4. CONSTRUCT 8" INTERNAL WIDTH TRENCH DRAIN WITH ADA COMPLIANT LOCKING GRATE PER DETAIL 5 ON SHEET C5.01. SEE UTILITY PLAN FOR ADDITIONAL INFORMATION.
5. CONSTRUCT SHALLOW JUNCTION BOX PER DETAIL 6 ON SHEET C5.01 WITH NON-SLIP ADA COMPLIANT CAST IRON MANHOLE LID AND FRAME. SEE UTILITY PLAN FOR ADDITIONAL INFORMATION.
6. PAINT 4" WIDE WHITE STRIPE ON EITHER SIDE OF DOOR OPENING TO CLEARLY DEFINE ACCESSIBLE PATH OF TRAVEL FROM BUILDING ENTRY POINT TO EXISTING SIDEWALK.
7. CONSTRUCT TYPE "C" CONCRETE CURB PER DETAIL 1 ON SHEET C5.01. TOP OF CURB TO BE SET 6" ABOVE ADJACENT ASPHALT SAWCUT EDGE. PATCH ASPHALT BETWEEN SAWCUT LINE AND NEW CURB SIMILAR TO DETAIL 3 ON SHEET C5.01 TO CREATE A SMOOTH SURFACE FOR STORMWATER RUNOFF TO FLOW OVER TO THE NORTHEAST CORNER OF THE RAIN GARDEN AREA.
8. DEPRESS 36" LONG SECTION OF CURB AND EXTEND ASPHALT PATCH INTO CURB OPENING TO ACT AS RAIN GARDEN INLET PER DETAIL 2 ON SHEET C5.01.
9. CONSTRUCT RAIN GARDEN PER CITY OF FLORENCE STORMWATER MANAGEMENT MANUAL TYPICAL DETAIL SW-140 ON SHEET C5.02. CONSTRUCT FLAT BOTTOM TO DIMENSION AND GRADE AS SHOWN ON PLAN. FLAT BOTTOM TO HAVE A MINIMUM SURFACE AREA OF 370 SQUARE FEET.

GENERAL SEEDING NOTES

1. ALL DISTURBED AREAS SHALL BE SEEDED.
2. SEED BETWEEN MARCH 15TH TO OCTOBER 15TH.
3. CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING OR SEEDING.
4. ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 6" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
5. PRIOR TO PLANTING, CONTRACTOR SHALL TEST SOILS FOR SOIL FERTILITY BY CERTIFIED TESTING LAB. IF NECESSARY, SOIL SHALL BE AMENDED AS RECOMMENDED BY SOIL ANALYSIS REPORT. TOPSOIL SHALL COMPLY WITH THE FOLLOWING:
   - A. ASTM D 5268 ACIDITY RANGE (PH) OF 5.5 TO 7.
   - B. A MINIMUM OF 4 PERCENT, AND A MAXIMUM OF 20 PERCENT ORGANIC MATERIAL CONTENT BY VOLUME.
   - C. A MAXIMUM OF 25 PERCENT DECAYING CONTENT BY VOLUME.
   - D. FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
   - E. TEXTURAL CLASS REQUIREMENTS: TOPSOIL TEXTURAL ANALYSIS SHALL FALL WITHIN THE FOLLOWING GRADATIONS.

TEXTURAL CLASS	% OF TOTAL WEIGHT	AVERAGE %
SAND (0.05-2.0MM DIA.)	45 - 75	60%
SILT (0.002-0.05MM DIA.)	15 - 35	25%
CLAY (LESS THAN 0.002MM DIA.)	05 - 20	15%

6. SEED SHALL BE A MIX OF FESCUE AND PERENNIAL RYEGRASS AND COMPLY WITH OWNER'S STANDARDS. SEED SHALL MEET OR EXCEED BLUE TAG QUALITY ACCORDING TO CURRENT OREGON CERTIFIED SEED STANDARDS PUBLISHED BY OREGON STATE UNIVERSITY.
7. SATISFACTORY SEEDED AREAS: UNLESS OTHERWISE SPECIFIED, ALL SEEDED AREAS SHALL AT THE TIME OF SUBSTANTIAL COMPLETION, EXHIBIT A HEALTHY, UNIFORM, CLOSE STAND OF THE SPECIFIED SEED MIX, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE OF MIX IN SPECIFIED PROPORTIONS, EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
8. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING & MOWING OF SEEDED AREAS UNTIL FINAL ACCEPTANCE FROM OWNER'S REPRESENTATIVE.

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GRADING PLANS

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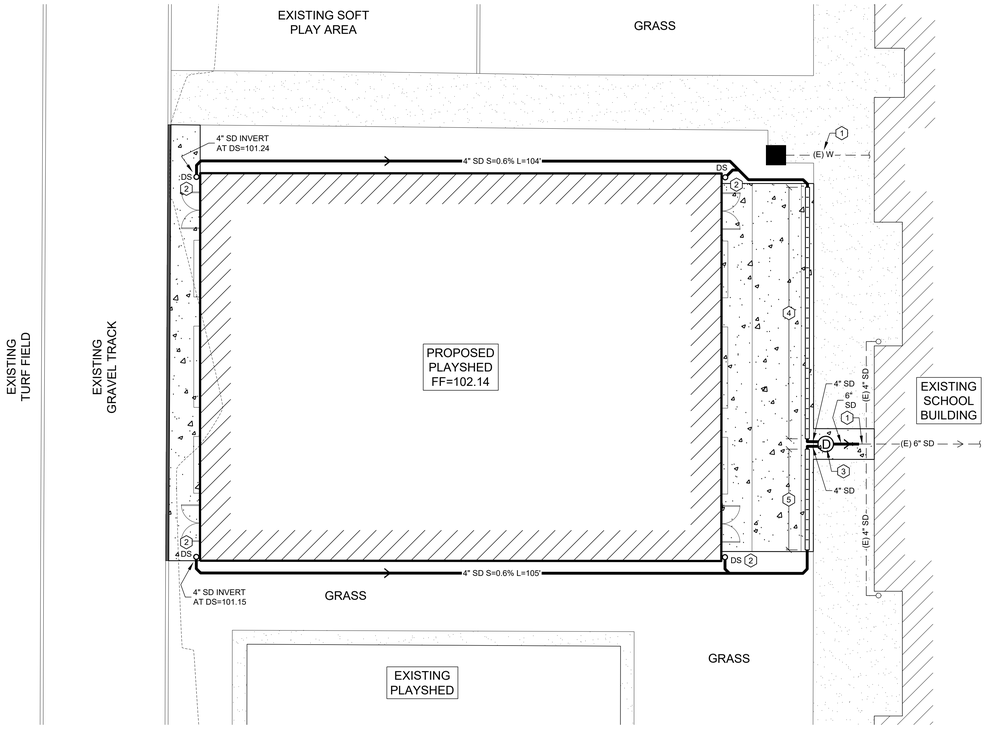
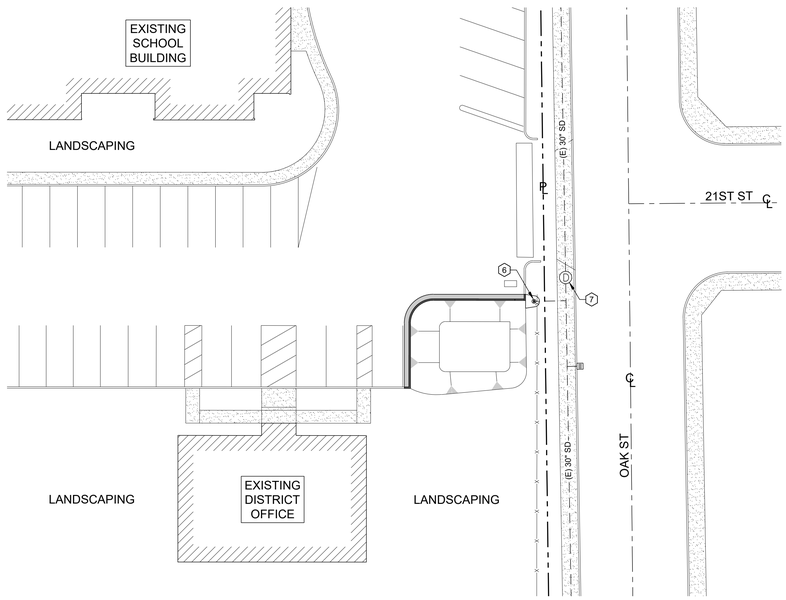


BUILDING AREA UTILITY PLAN

1" = 10'-0"

0' 10' 20'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")



RAIN GARDEN AREA UTILITY PLAN

1" = 20'-0"

0' 20' 40'
0" 1" 2"
(PLAN IS TO SCALE IF BAR MEASURES 2")

GENERAL UTILITY PLAN NOTES

A. ALL CONSTRUCTION IN A PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION'S STANDARD CONSTRUCTION SPECIFICATIONS AND ANY SPECIAL PROVISIONS INCLUDED AS A PART OF THE APPROVED PLANS.

B. 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 952-001-0100. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.

C. SEE SITE PLANS FOR BUILDING DIMENSIONS, PARKING LAYOUTS, SIDEWALK WIDTHS, AND SIMILAR INFORMATION.

D. VERIFY EXACT POSITIONS OF UTILITY SERVICE ENTRY POINTS WITH PLUMBING AND ELECTRICAL PLANS, BY OTHERS.

E. CONSTRUCT PRIVATE UTILITY TRENCH BEDDING AND BACKFILL PER DETAILS 3 AND 4 ON SHEET C5.01.

F. ALL DOWNSPOUT LATERALS ARE TO BE 3" DIA. UNLESS NOTED OTHERWISE. CONNECTION TO DOWNSPOUT SHALL INCLUDE AN INTEGRAL CLEANOUT PER DETAIL 8 ON SHEET C5.01.

G. STORM DRAIN PIPE MATERIAL
WITHIN 5' OF A BUILDING FOUNDATION:
- USE ASTM 1785 SCHEDULE 40 PVC PIPE WHERE COVER IS 12 INCHES OR GREATER.
- USE ANSI CLASS 50 DUCTILE IRON PIPE WHERE COVER IS LESS THAN 12 INCHES.
- USE ASTM A74 CAST IRON PIPE WHERE COVER IS LESS THAN 12 INCHES.

BEYOND 5' OF A BUILDING FOUNDATION:
- USE ASTM D3034 SDR35 PVC PIPE WHERE COVER IS 24 INCHES OR GREATER.
- USE ASTM 1785 SCHEDULE 40 PVC PIPE WHERE COVER IS 12 INCHES OR GREATER.
- USE ANSI CLASS 50 DUCTILE IRON PIPE WHERE COVER IS LESS THAN 12 INCHES.

H. STORM DRAIN PIPE SIZE AND SLOPE
- PIPE SLOPES INDICATED ARE APPROXIMATE MINIMUM SLOPES BASED ON THE STATED INVERTS. INSTALL PIPES ACCORDING TO INVERTS NOTED ON PLAN AND IN STRUCTURE SCHEDULE OR KEYED NOTES.
- UNLESS NOTED OTHERWISE ALL FITTINGS ARE TO BE CONCENTRIC. PIPE INVERT ELEVATIONS NOTED AT FITTINGS ARE CALCULATED FOR THE LARGEST DIAMETER PIPE CONNECTED TO THAT FITTING. TEES TO BE SANITARY TEE OR WYE WITH 1/8 TH BEND.

I. CLEANOUTS ON SANITARY SEWER AND STORM DRAIN PIPING TO BE SPACED MAXIMUM OF 100 FEET APART. CLEANOUTS ARE REQUIRED FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES (OPSC 719).

J. FOR 4" RISER PIPE, COVER ON SANITARY SEWER AND STORM DRAIN CLEANOUT TO BE TYPICALLY 18" TALL CAST IRON 910 VALVE BOX AND COVER. AT SHALLOW PIPE DEPTH, 10" CAST IRON 950 VALVE BOX AND COVER IS ACCEPTABLE. INSTALL FLUSH WITH FINISHED GRADE. SEE DETAIL 7 ON C5.01. ALTERNATE CONCRETE BROOKS VALVE BOX IS ACCEPTABLE.

KEYED UTILITY PLAN NOTES (##) :

GENERAL
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EXISTING UTILITIES ARE TO REMAIN FUNCTIONAL DURING ENTIRE PROJECT. LOCATIONS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY, ARCHIVE PLANS AND AVAILABLE RECORDS. TAKE PRECAUTIONS TO LOCATE AND PROTECT UTILITIES AGAINST DAMAGE. IDENTIFY AND MARK LOCATION OF WATER SHUTOFF VALVES WITH OWNER PRIOR TO START OF EXCAVATION.

1. POTENTIAL GRADE CONFLICT WITH EXISTING UTILITY. POTHOLE LOCATE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A CONFLICT EXISTS.
2. CONSTRUCT 3" DOWNSPOUT PER DETAIL 8 ON SHEET C5.01. TRANSITION TO 4" SD PIPE BENEATH GROUND SURFACE.
3. CONSTRUCT SHALLOW JUNCTION BOX PER DETAIL 6 ON SHEET C5.01 WITH NON-SLIP ADA COMPLIANT CAST IRON MANHOLE LID AND FRAME.
RIM = 101.75
4" INVERT IN WEST 100.42
4" INVERT IN WEST 100.42
6" INVERT OUT EAST 100.42
4. CONSTRUCT 8" INTERNAL WIDTH TRENCH DRAIN WITH ADA COMPLIANT LOCKING DUCTILE IRON GRATE. (12) 1-METER UNITS AND (1) ½-METER UNIT OF ACO DRAIN MODEL K200, INTERNALLY SLOPED TRENCH DRAIN WITH MODEL 678Q GRATE OR APPROVED EQUAL. USE END OUTLET PLATES WITH 4" DIA. BLOCKOUT. SET TRENCH DRAIN UNITS IN REINFORCED CONCRETE BED PER DETAIL 5 ON SHEET C5.01. TRENCH UNITS K2-28 TO K2-39 WITH A SINGLE NEUTRAL SLOPED K2-0303 1/2-METER UNIT PLACED IMMEDIATELY DOWNSTREAM OF UNIT K2-30.
RIM = VARIES 101.74 TO 101.71
4" INVERT IN NORTH 100.61
4" INVERT OUT SOUTH 100.44
5. CONSTRUCT 8" INTERNAL WIDTH TRENCH DRAIN WITH ADA COMPLIANT LOCKING DUCTILE IRON GRATE. (5) 1-METER UNITS OF ACO DRAIN MODEL K200, INTERNALLY SLOPED TRENCH DRAIN WITH MODEL 678Q GRATE OR APPROVED EQUAL. USE END OUTLET PLATES WITH 4" DIA. BLOCKOUT. SET TRENCH DRAIN UNITS IN REINFORCED CONCRETE BED PER DETAIL 5 ON SHEET C5.01.
TRENCH UNITS K2-35 TO K2-39.
RIM = VARIES 101.74 TO 101.73
4" INVERT IN SOUTH 100.52
4" INVERT OUT NORTH 100.44
6. EXISTING AREA DRAIN TO REMAIN.
RIM = 97.74
(E) 8" INVERT OUT EAST 95.82
7. EXISTING PUBLIC STORM SEWER MANHOLE
RIM = 97.95
(E) 30" INVERT THRU 94.74

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UTILITY PLANS

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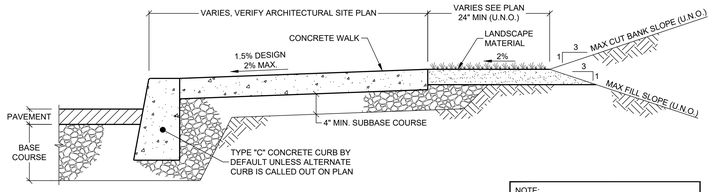
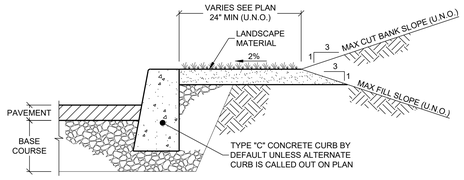


CURB WITH SIDEWALK

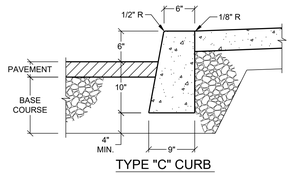
NOTE:
INSTALL CONTRACTION JOINTS IN CURB AT 15' O.C. AND AT POINT OF TANGENCY.

INSTALL CONTRACTION JOINTS IN SIDEWALK AT 5' O.C. EXCEPT WHERE NOTED ON PLANS.

INSTALL EXPANSION JOINTS IN CURBS AND SIDEWALKS AT 45' O.C. INSTALL 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL IN JOINTS.

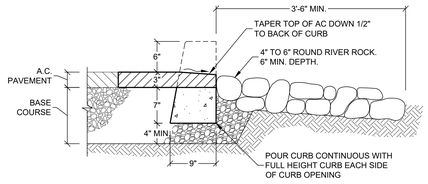


CURB WITH LANDSCAPE

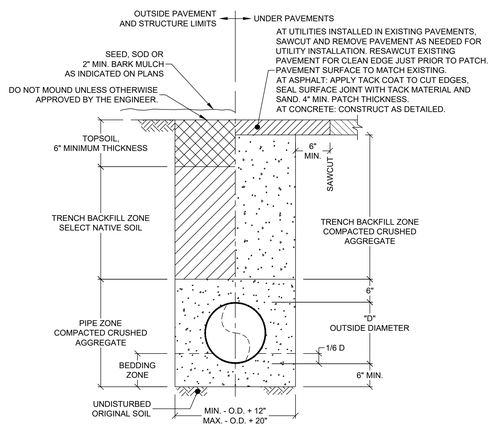


TYPE "C" CURB

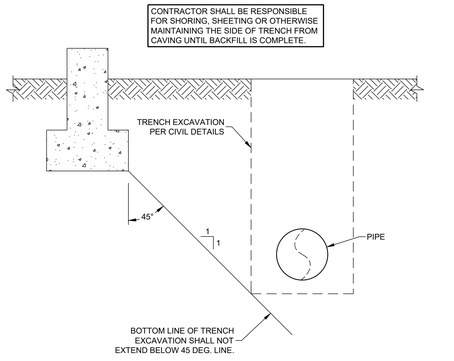
1 C5.01 STANDARD CURBS
1" = 1'-0"



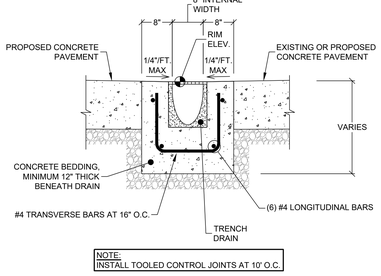
2 C5.01 RAIN GARDEN INLET
1" = 1'-0"



3 C5.01 TRENCH IN EXISTING DEVELOPMENT
N.T.S.

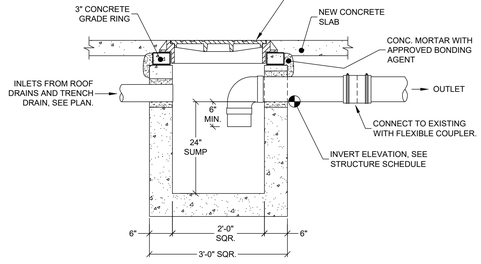


4 C5.01 RELATION OF TRENCHES TO FOOTINGS
1" = 1'-0"

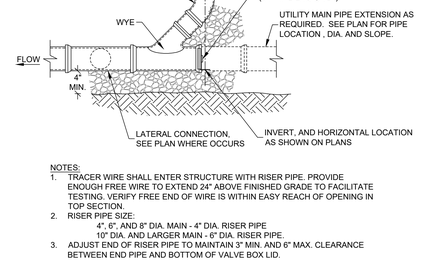


NOTE:
INSTALL TOOLED CONTROL JOINTS AT 10' O.C.

5 C5.01 8" TRENCH DRAIN
3/4" = 1'-0"

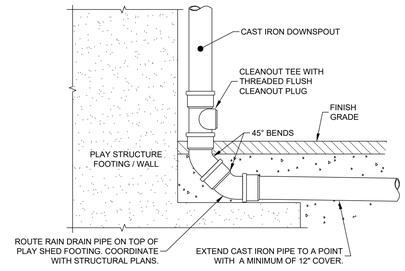


6 C5.01 JUNCTION BOX
3/4" = 1'-0"



NOTES:
1. TRACER WIRE SHALL ENTER STRUCTURE WITH RISER PIPE. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF OPENING IN TOP SECTION.
2. RISER PIPE SIZE:
   4", 6", AND 8" DIA. MAIN - 4" DIA. RISER PIPE
   10" DIA. AND LARGER MAIN - 6" DIA. RISER PIPE.
3. ADJUST END OF RISER PIPE TO MAINTAIN 3" MIN. AND 6" MAX. CLEARANCE BETWEEN END PIPE AND BOTTOM OF VALVE BOX LID.

7 C5.01 STANDARD PRIVATE CLEANOUT (CO)
1" = 1'-0"



ALL CAST IRON PIPE AND FITTINGS TO BE HUB & SPIGOT SOIL PIPE CONFORMING TO ASTM A 74 WITH COMPRESSION GASKETS CONFORMING TO ASTM C 564.

8 C5.01 CAST IRON DOWNSPOUT CONNECTION DETAIL
1" = 1'-0"

Soderstrom Architects

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Siuslaw ES Covered Play Structure
Siuslaw School District
2221 Oak Street
Florence, OR 97439

Project

Consultant
Locke CIVIL & STRUCTURAL ENGINEERS
289 E Ellendale Ave, Suite 703
Dallas, Oregon 97338
503-364-8207
LockeEngineers.com
J.O. 22015-1

Revisions

No.	Description	Date

Stamp

REGISTERED PROFESSIONAL ENGINEER
16,650
DIGITAL SIGNATURE
OREGON
JULY 20, 1982
GREG D. LOCKE

EXPIRES: 12-31-2024

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Issuance
IFB

Date
2.2.2024

Project Number
22006

Drawing Title
CIVIL DETAILS

Sheet No
C5.01

02-01-2024 12:26 PM
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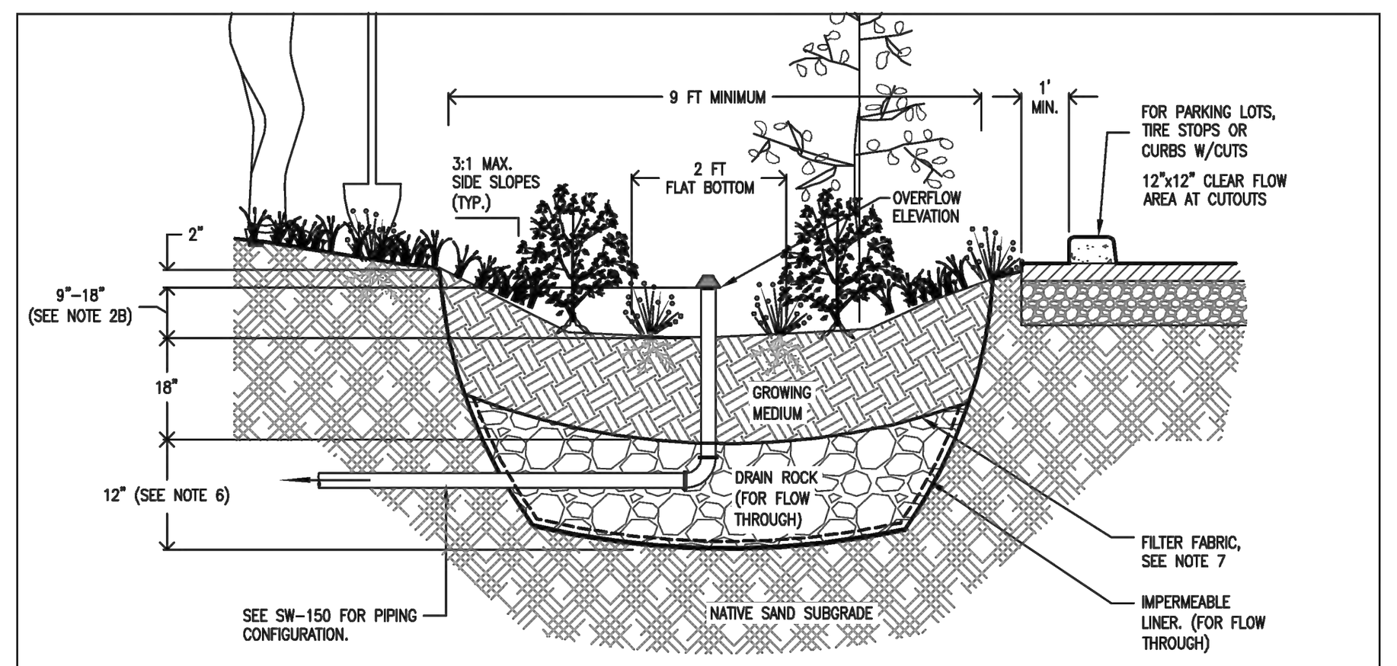


1. Provide protection from all vehicle traffic, equipment staging, and foot traffic in proposed infiltration areas prior to, during, and after construction.

2. Dimensions:
   a. Width of basin: 9' minimum.
   b. Depth of basin (from top of growing medium to overflow elevation); Simplified: 12", Presumptive: 9"-18".
   c. Flat bottom width: 2' min.
   d. Side slopes of basin: 3:1 maximum.

3. Setbacks (from midpoint of facility):
   a. Infiltration basins must be 10' from foundations and 5' from property lines.
   b. Flow-through swales must be lined with connection to approved discharge point according to SWDM Section 2.1.

4. Overflow:
   a. Overflow required for Simplified Approach.
   b. Inlet elevation must allow for 2" of freeboard, minimum.
   c. Protect from debris and sediment with strainer or grate.

5. Piping: shall be ABS Sch.40, cast iron, or PVC Sch.40. 3" pipe required for up to 1,500 sq ft of impervious area, otherwise 4" min. Piping must have 1% grade and follow the Uniform Plumbing Code.

6. Drain rock:
   a. None required for infiltration basin
   b. Size for flow-through basin: ¾" washed

7. Separation between drain rock and growing medium: Use filter fabric (see SWDM Exhibit 2-5).

8. Growing medium:
   a. 18" minimum
   b. See Appendix B for specification.

9. Vegetation: Follow landscape plans otherwise refer to plant list in SWDM Appendix G. Minimum container size is 1 gallon. # of plantings per 100sf of facility area):
   a. Zone A (wet): 115 herbaceous plants OR 100 herbaceous plants and 4 shrubs
   b. Zone B (moderate to dry): 1 tree AND 3 large shrubs AND 4 medium to small shrubs.
   The delineation between Zone A and B shall be either at the outlet elevation or the check dam elevation, whichever is lowest.

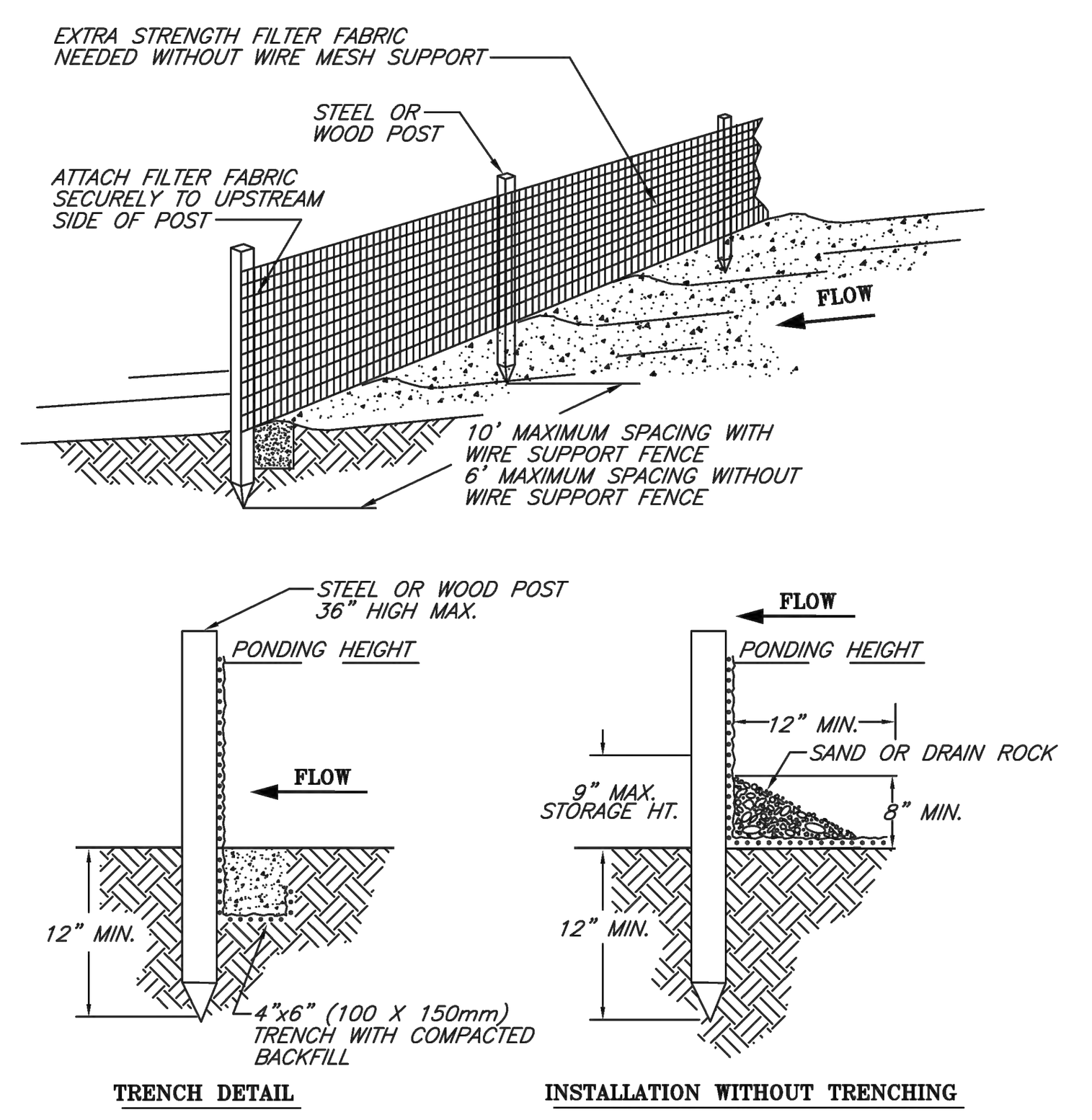
10. Install washed pea gravel or river rock to transition from inlets and splash pad to growing medium.

11. Inspections: Call City of Florence Public Works (541) 997-4106 to schedule appropriate inspections.

- DRAWING NOT TO SCALE -

STORMWATER MANAGEMENT MANUAL TYPICAL DETAILS

CITY OF FLORENCE PUBLIC WORKS DEPARTMENT 989 Spruce Street Florence, OR 97439 Phone: 541-997-4106	- Simplified / Presumptive Design Approach -	NUMBER
DATE: 11-30-10	Rain Garden	SW-140



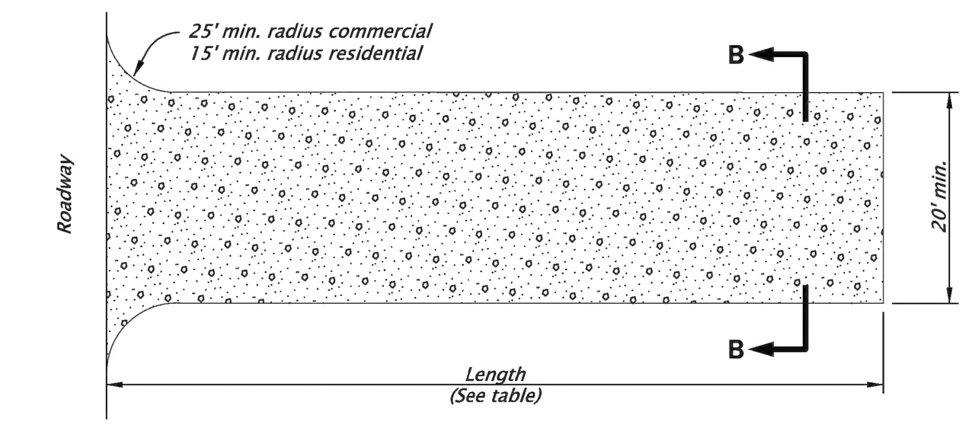
NOT TO SCALE

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. FENCE TO REMAIN IN PLACE AND MAINTAINED BY CONTRACTOR UNTIL ALL DISTURBED SOILS HAVE BEEN STABILIZED

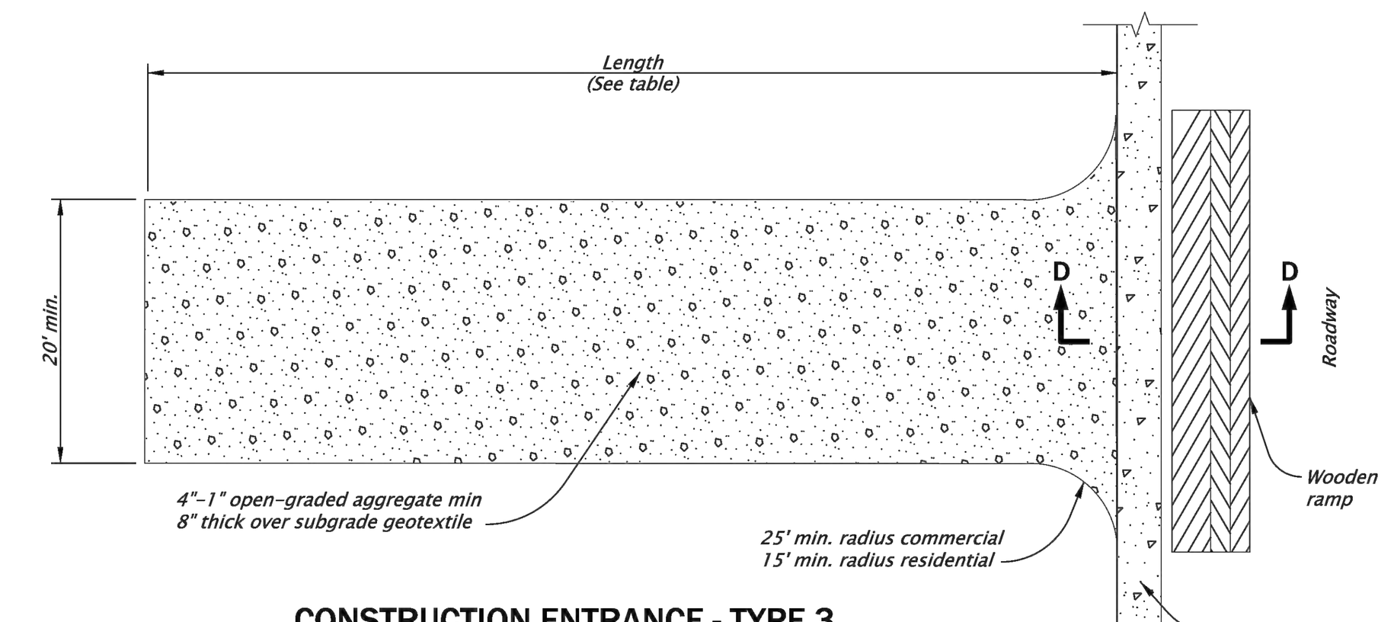
CITY OF FLORENCE STANDARD DRAWING

SILT FENCE

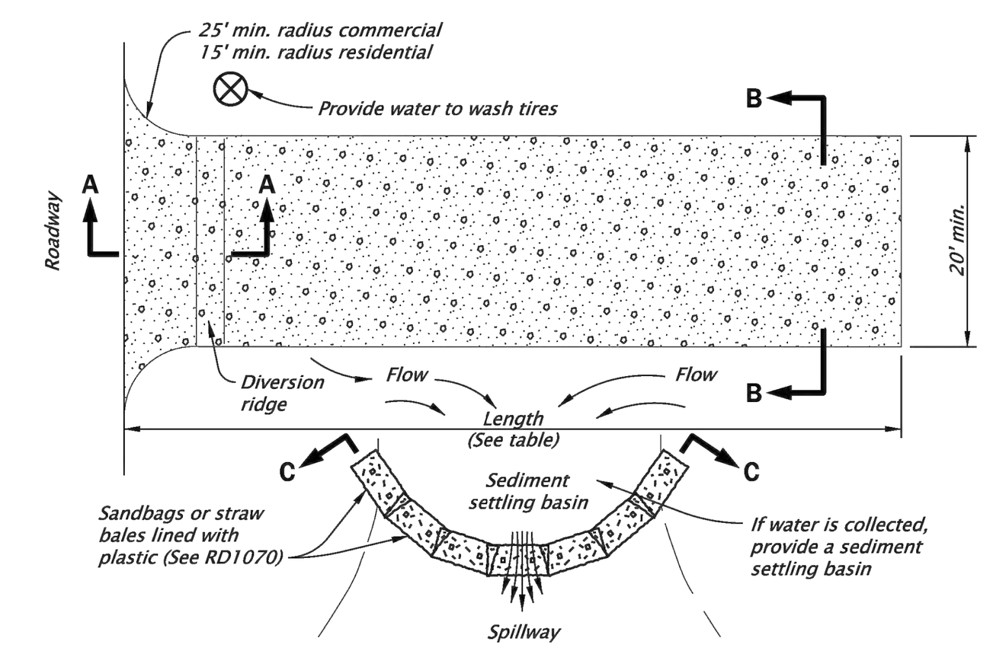
DATE:	DRAWING NO.
DEC–2011	F–101



CONSTRUCTION ENTRANCE - TYPE 1
NOT TO SCALE



CONSTRUCTION ENTRANCE - TYPE 3
(TYPE 1 OR 2 WITH EXISTING CURB)
NOT TO SCALE



CONSTRUCTION ENTRANCE - TYPE 2
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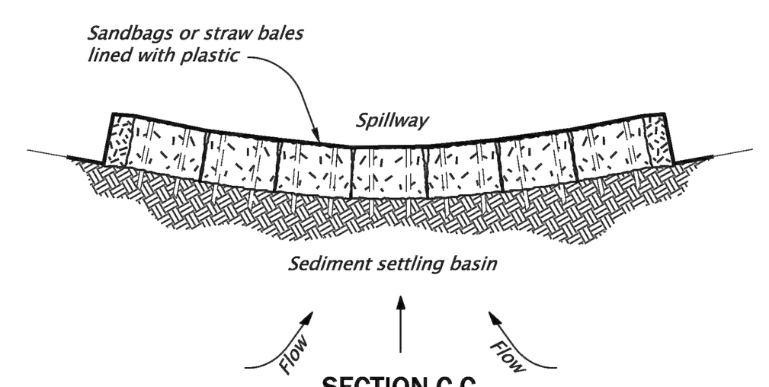
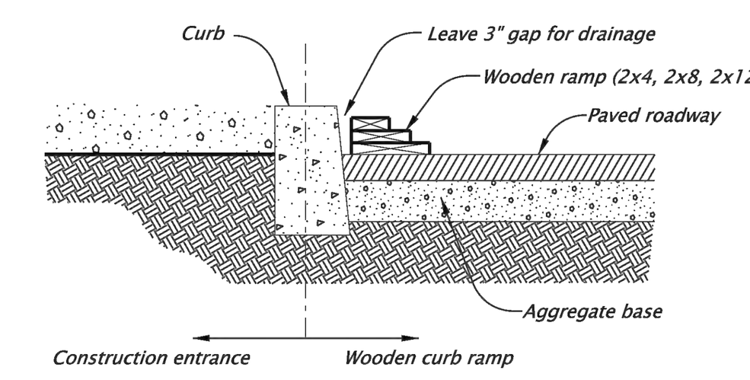
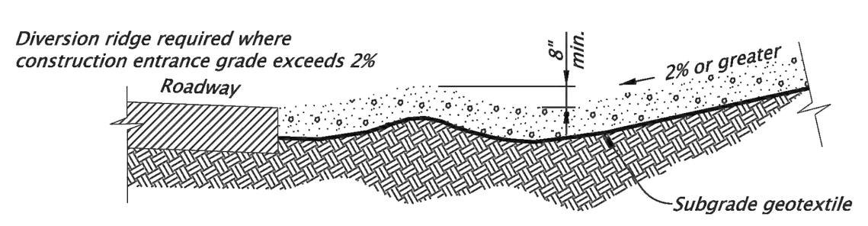


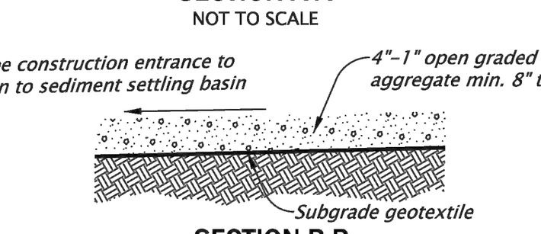
SECTION C-C
NOT TO SCALE



WOODEN CURB RAMP SECTION D-D
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES:
1. The Type 1 entrance is a simple entrance without a diversion ridge or settling basin.
2. The wooden ramp may be used on either Type 1 or Type 2 entrances in situations where there is curb and the curb is not removed for the construction entrance.

CONSTRUCTION ENTRANCE TABLE MINIMUM LENGTH	
Length (FT)	Area Of Exposed Soil (Acre)
20	0.25
50	0.25 < A < 1.0
100	A > 1.0

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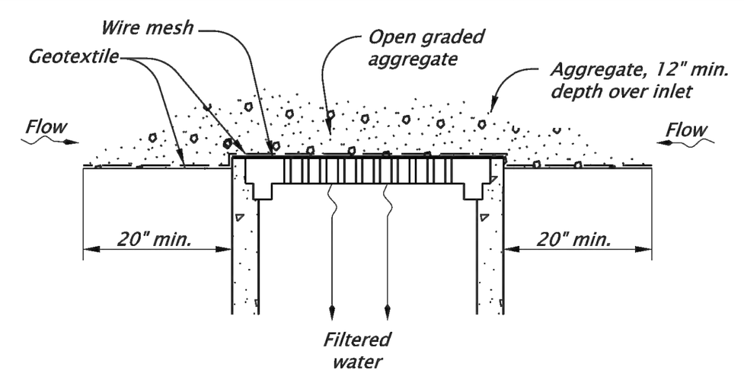
All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
CONSTRUCTION ENTRANCES
2024

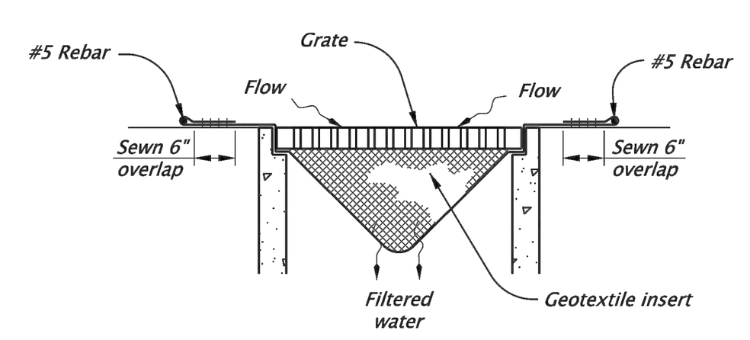
DATE	REVISION DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS

CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | RD1000

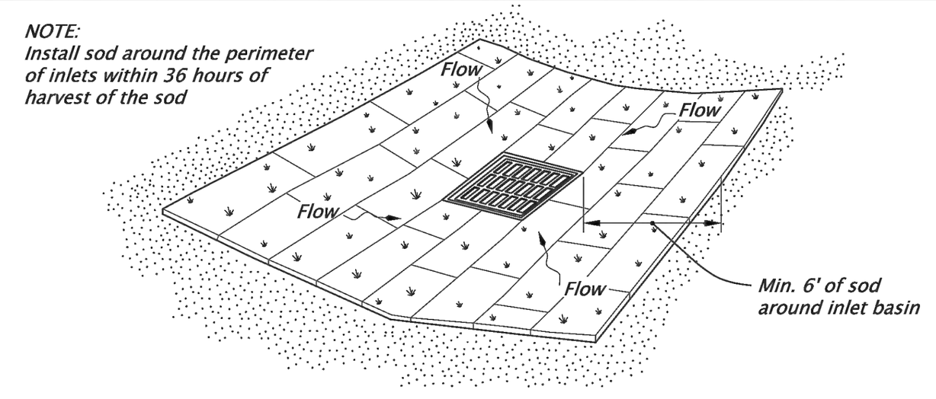
Effective Date: December 1, 2023 – May 31, 2024



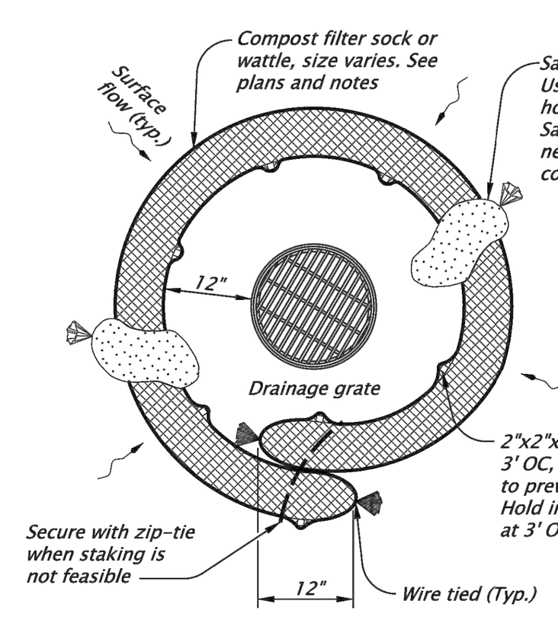
GEOTEXTILE/WIRE MESH/AGGREGATE - TYPE 2
NOT TO SCALE



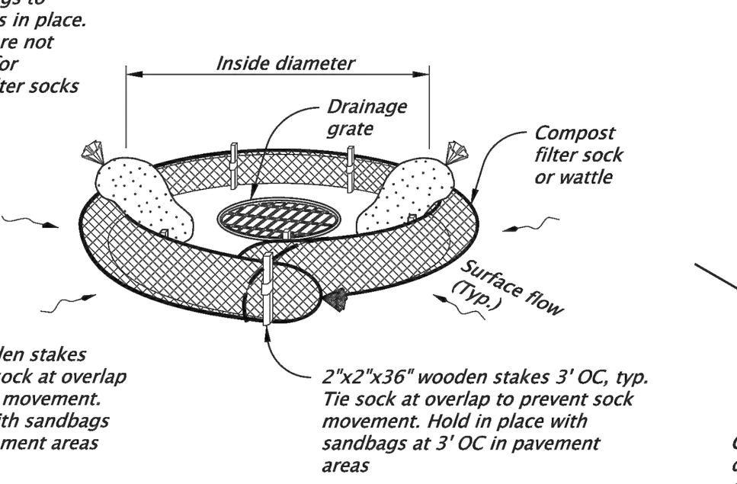
PREFABRICATED FILTER INSERT - TYPE 3
NOT TO SCALE



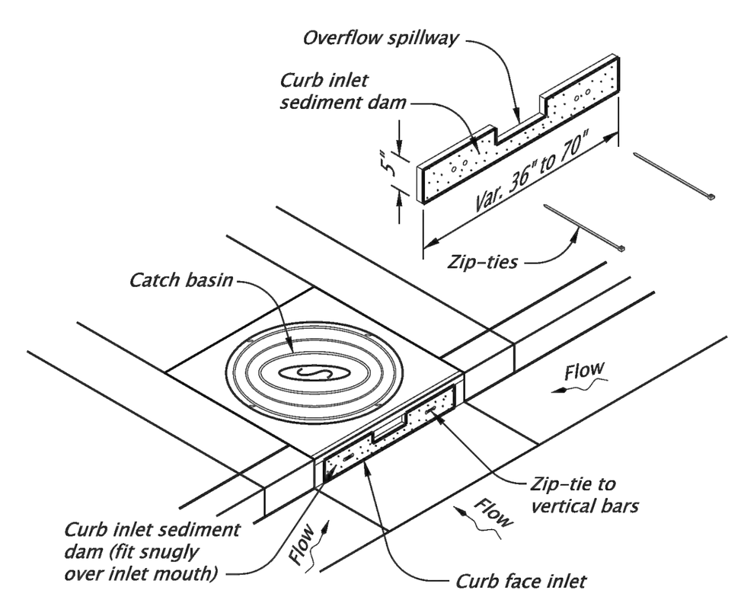
SOD PROTECTION - TYPE 6
NOT TO SCALE



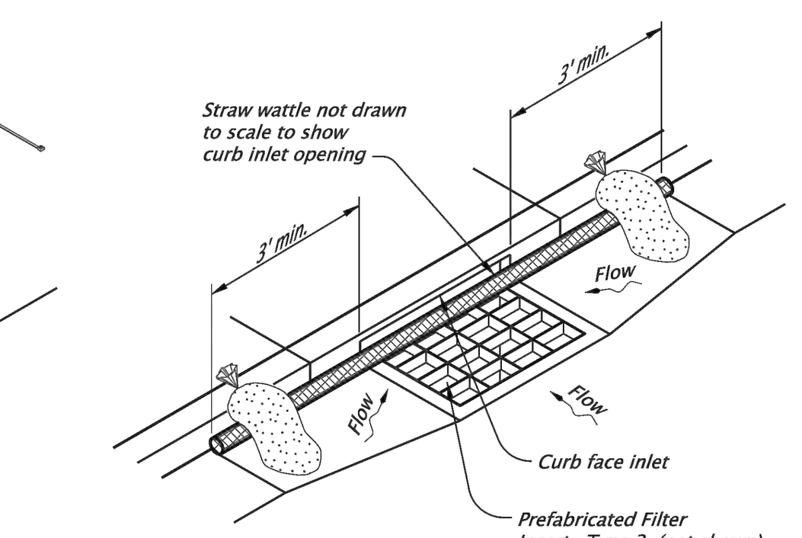
AREA DRAIN PLAN



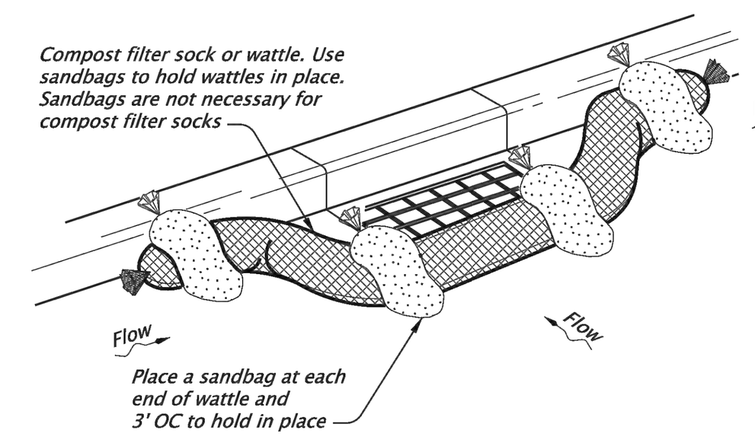
AREA DRAIN PERSPECTIVE VIEW



CURB INLET SEDIMENT DAM - TYPE 10
NOT TO SCALE



WATTLE BARRIER WITH FILTER INSERT - TYPE 11
NOT TO SCALE



CURB INLET PERSPECTIVE VIEW

COMPOST FILTER SOCK OR WATTLE - TYPE 7
NOT TO SCALE

NOTES:
Type 2 - Geotextile/wire mesh/aggregate
Place the wire mesh over the grate.
Place sediment fence geotextile over the wire mesh and perimeter area around structure.
Install aggregate over the geotextile fabric.

Type 3 - Prefabricated filter inserts
Install prefabricated filter inserts according to the plans, special provisions, and manufacturer recommendations.
Prefabricated inserts with provisions for overflow are allowed only when accompanied by additional BMP's to prevent the potential of sediments entering project storm systems.
Field fabricated inserts are not allowed.

Type 7 - Compost filter sock
Drive 2"x2" wood stakes a minimum of 6" into ground and flush with the top of the sock.
Overlap ends of sock per manufacturers recommendations (12"min., 36" max.).
Use 8" to 12" dia sock on curbside in traffic areas.

(Type 7 cont.)
Use 12" to 18" dia sock in non-traffic areas or areas where the larger socks can be used safely.
use synthetic mesh socks for temporary installations.

Type 10 - Curb inlet sediment dam
Fit curb inlet sediment dam snugly into inlet mouth. Curb inlet sediment dam is required for use with inlet filter insert where at-grade inlet grate and curb inlet are combined at a catch basin.

Type 11 - Wattle barrier with filter insert
Install prefabricated filter insert per Type 3 detail.
Install wattles over opening and 36" to each side of opening tight against curb. Adjust wattle to force storm water to flow through filter insert or wattle prior to leaving the site.
Adjust, replace or modify the inlet protection as needed to prevent sediment laden water from entering the catch basin.

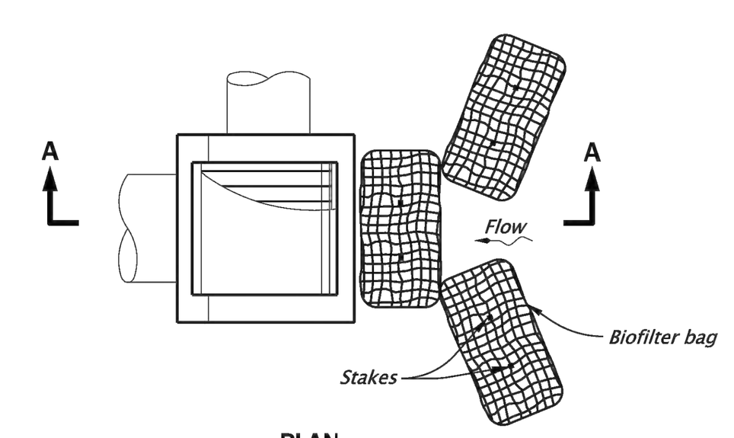
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
INLET PROTECTION
TYPE 2, 3, 6, 7, 10 AND 11
2024

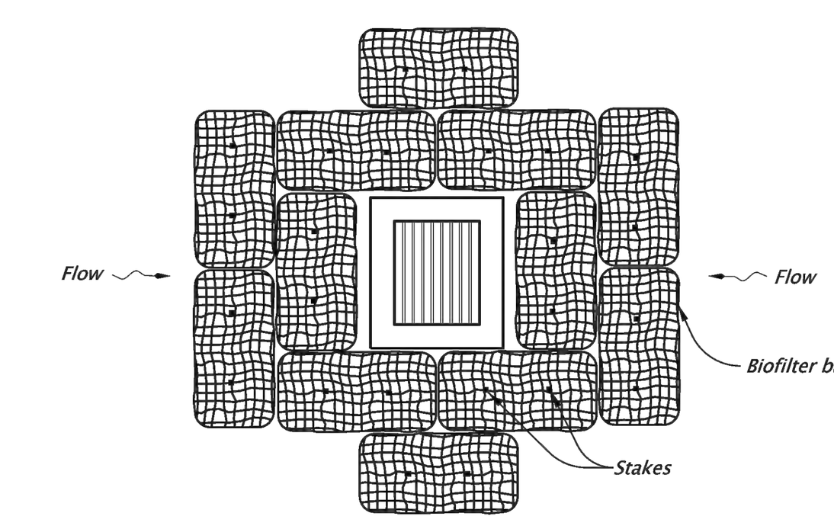
DATE	REVISION DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS
01-2021	MOVED NOTES UP FROM OVERLAPPING THE SHEET BORDER

CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | RD1010

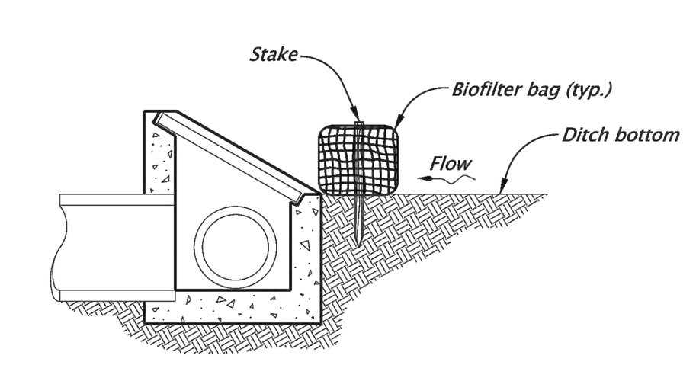
Effective Date: December 1, 2023 – May 31, 2024



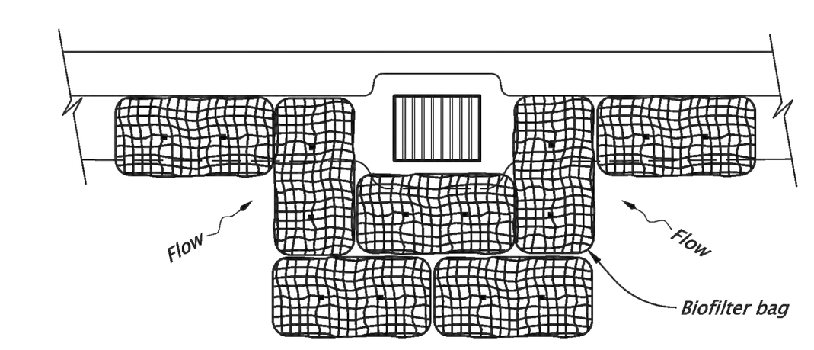
PLAN
DITCH INLET



PLAN
AREA DRAIN



SECTION A-A
DITCH INLET



PLAN
CATCH BASIN

BIOFILTER BAGS - TYPE 4
NOT TO SCALE

NOTES:
1. Stake biofilter bags with 2"x2"x36" wood stakes, and use a minimum 2 stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags.
2. Omit stakes when bags are placed on pavement surface.
3. Overlap all bag joints 6".
4. Biofilter bags used on active roadways are easily displaced and made ineffective if struck by vehicles. If struck by a cyclist, falls with injury could result. On active roadways alternative inlet protection should be considered.

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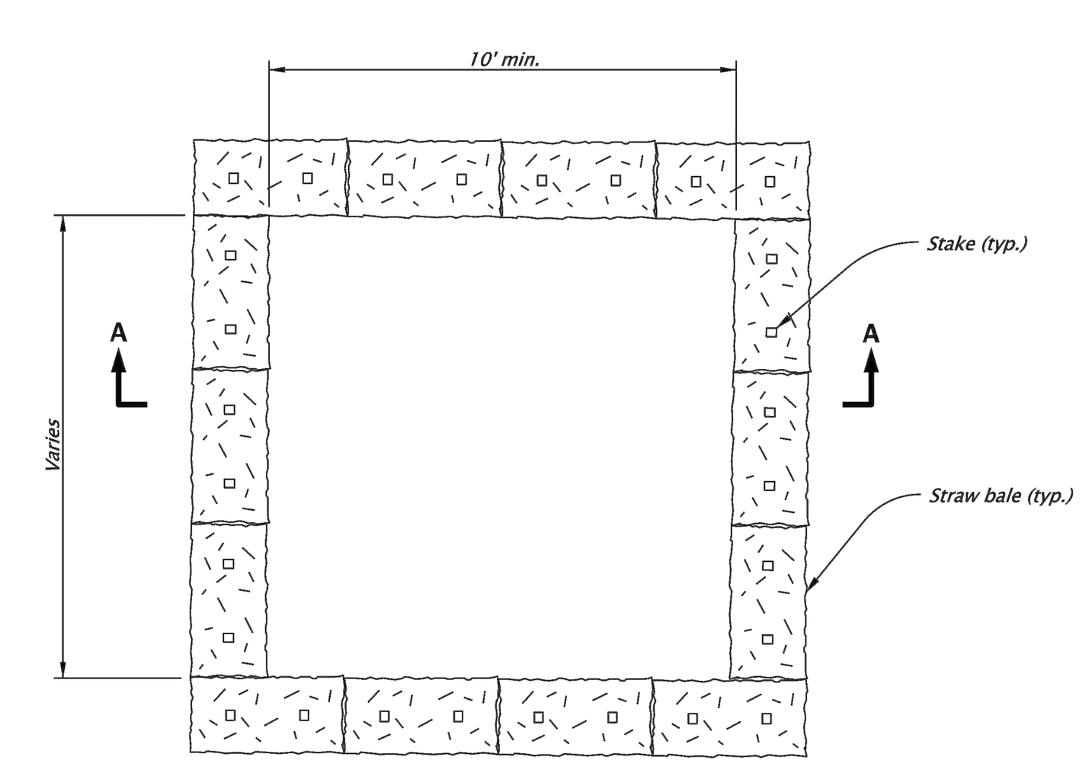
OREGON STANDARD DRAWINGS
INLET PROTECTION
TYPE 4
2024

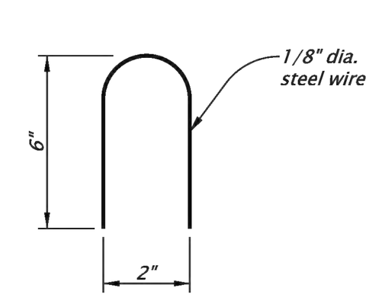
DATE	REVISION DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS

CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | RD1015

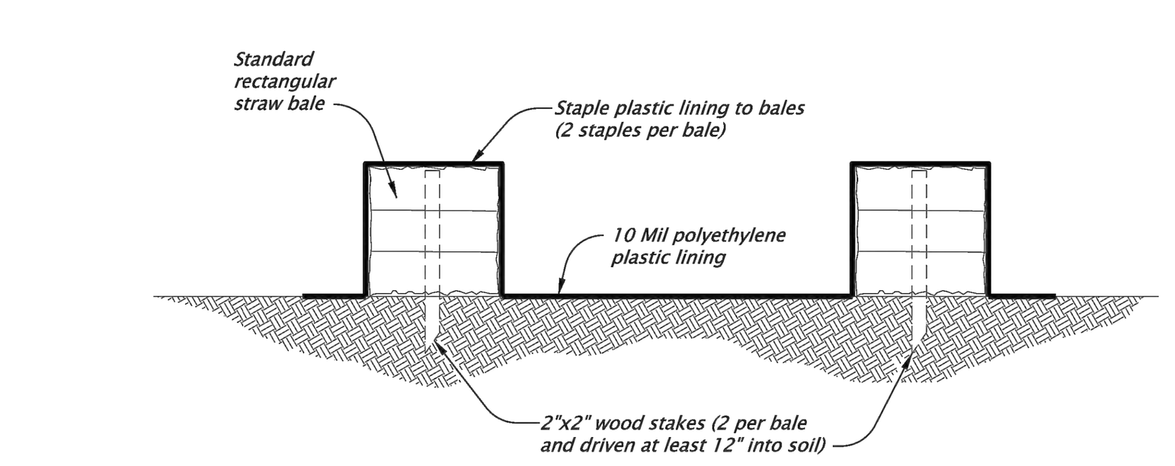
Effective Date: December 1, 2023 – May 31, 2024



PLAN



STAPLE DETAIL
NOT TO SCALE



SECTION A-A

CONCRETE TRUCK WASH OUT FACILITY
NOT TO SCALE

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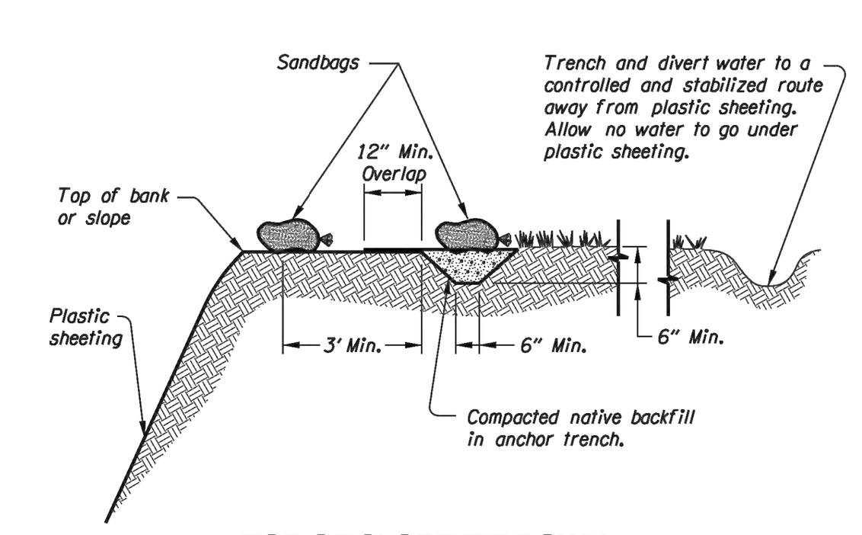
All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS
CONCRETE TRUCK WASH OUT
2024

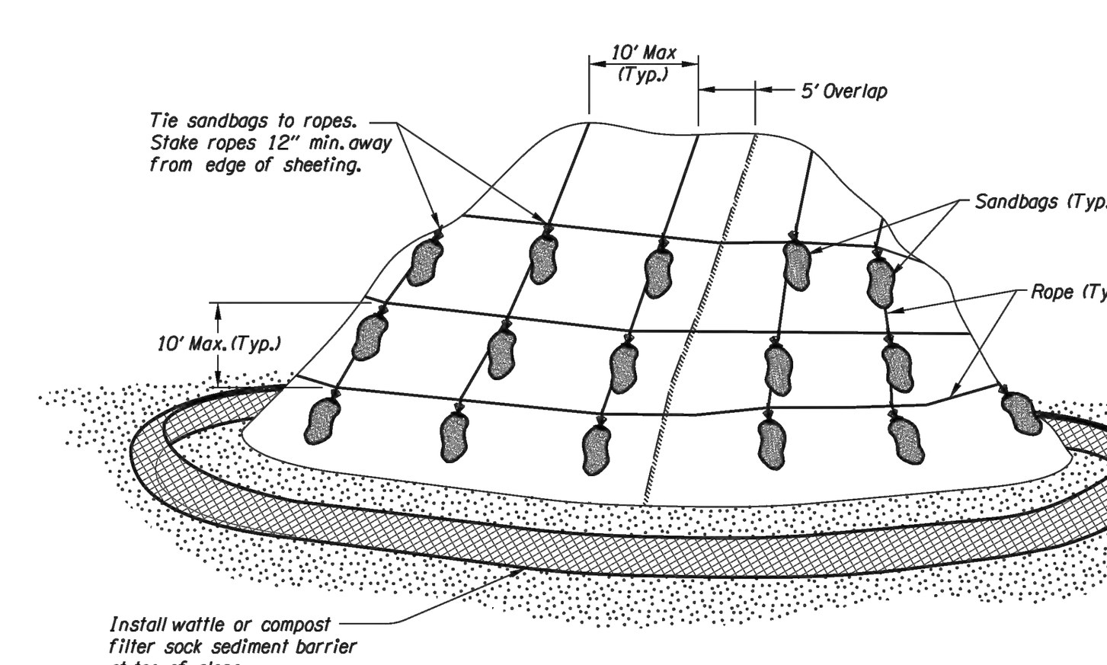
DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A | SDR DATE 20-JAN-2021 | RD1070

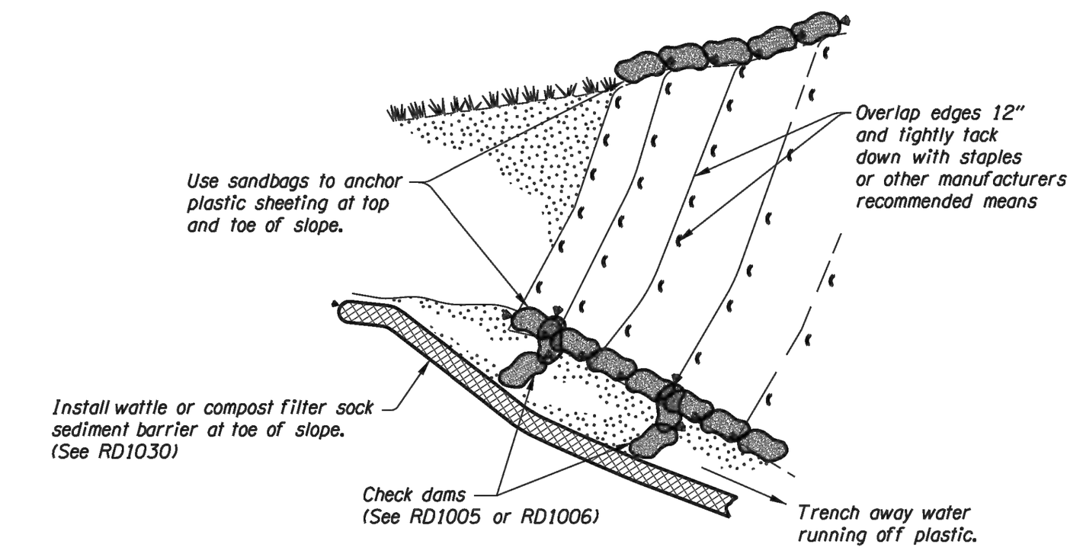
Effective Date: December 1, 2023 – May 31, 2024



TOP OF SLOPE TIE DOWN

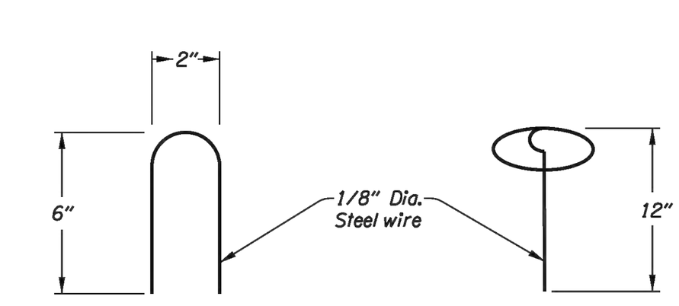


STOCKPILE



SLOPES

NOTES:
1. Install plastic sheeting vertically down slope.
2. Install plastic sheeting so edges overlap and are shingled away from prevailing winds.



STAPLE DETAIL | PIN STAPLE

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

PLASTIC SHEETING	DETAIL NO. DET6001

Soderstrom Architects

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Portland, OR 97209

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Project

Siuslaw ES Covered Play Structure
Siuslaw School District
2221 Oak Street
Florence, OR 97439

Consultant

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503-364-8207
LockeEngineers.com
J.O. 22015-1

Revisions

No.	Description	Date

Stamp

REGISTERED PROFESSIONAL ENGINEER
16,650
DIGITAL SIGNATURE
OREGON
JULY 20, 1993
GREG D. LOCKE
EXPIRES: 12-31-2024
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Issuance
IFB

Date
2.2.2024

Project Number
22006

Drawing Title
STANDARD DETAILS

Sheet No
C5.02

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L:\2022\22015-1 SDRA Siuslaw SD\Civil\22015 SDRA Siuslaw ES Play Structure - Details.dwg

PANEL NAME: 2F
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 42
AIC RATING: 42,000
NOTES:
REF. KEY NOTE #:

LOCATION: ELECTRICAL 48
FED FROM: TRANSFORMER TR-C
BREAKER MOUNTING: BOLTED
MAIN BREAKER AMPS: 400
BUS RATING AMPS: 400
SPD: YES

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	SPARE		-			20	1	2	20	-				SPARE	
	SPARE			-		20	3	4	20		-			SPARE	
	SPARE				-	20	5	6	20			-		SPARE	
	SPARE		-			20	7	8	20	-				SPARE	
	SPARE			-		20	9	10	20		-			SPARE	
	SPARE				-	20	11	12	20			-		SPARE	
	SPARE		-			20	13	14	20	-				SPARE	
	SPARE			-		20	15	16	20		-			SPARE	
	SPARE				-	20	17	18	20			-		SPARE	
	SPARE		-			20	19	20	20	-				SPARE	
	SPARE			-		20	21	22	20		-			SPARE	
	SPARE				-	20	23	24	20			-		SPARE	
	SPARE		-			20	25	26	20	-				SPARE	
	SPARE			-		20	27	28	20		-			SPARE	
	SPARE				-	20	29	30	20			-		SPARE	
	SPARE		-			20	31	32	20	-				SPARE	
	SPARE			-		20	33	34	20		-			SPARE	
	SPARE				-	20	35	36	20			-		SPARE	
	SPARE		-			20	37	38		10			R		
	SPARE			-		20	39	40	30		10		R	SURGE PROTECTION DEVICE	
	SPARE				-	20	41	42				10	R		

TOTAL LOAD:	0	0	0	TOTAL LOAD:	10	10	10	
COMBINED LOAD:	10	10	10	CONNECTED LOAD:	30	DEMAND LOAD:	30	
						DEMAND AMPS:	0	

Load Type Key		Demand Factor	Connected Load	Demand Load	
R	General Purpose...	100% Firs...	30	30	
L	Lighting	125% Load	0	0	
M1	Largest Motor	125% Load	0	0	
M	Motor	100% Load	0	0	
A	Appliance	50% Load	0	0	
H	HVAC	75% Load	0	0	
K	Kitchen	XX% Load	0	0	XX - Units of...
E	Equipment	100% Load	0	0	
T	Transformer	100% Load	0	0	
W	Welder	100% Load	0	0	
RV	Recreational Vehicle	XX% Load	0	0	XX - RV Sites...

NOTES:

PANEL NAME: 2F1
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 42
AIC RATING: 42,000
NOTES: FEED THROUGH LUGS
REF. KEY NOTE #:

LOCATION: ELECTRICAL 48
FED FROM: PANEL 2F
BREAKER MOUNTING: BOLTED
MAIN LUGS ONLY
BUS RATING AMPS: 400
SPD: YES

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	SPARE		-			20	1	2	20	-				SPARE	
	SPARE			-		20	3	4	20		-			SPARE	
	SPARE				-	20	5	6	20			-		SPARE	
	SPARE		-			20	7	8	20	-				SPARE	
	SPARE			-		20	9	10	20		-			SPARE	
	SPARE				-	20	11	12	20			-		SPARE	
	SPARE		-			20	13	14	20	-				SPARE	
	SPARE			-		20	15	16	20		-			SPARE	
	SPARE				-	20	17	18	20			-		SPARE	
	SPARE		-			20	19	20	20	-				SPARE	
	SPARE			-		20	21	22	20		-			SPARE	
	SPARE				-	20	23	24	20			-		SPARE	
	SPARE		-			20	25	26	20	-				SPARE	
	SPARE			-		20	27	28	20		-			SPARE	
	SPARE				-	20	29	30	20			-		SPARE	
	SPARE		-			20	31	32	20	-				SPARE	
	SPARE			-		20	33	34	20		-			SPARE	
	SPARE				-	20	35	36	20			-		SPARE	
	SPARE		-			20	37	38		10			R		
	SPARE			-		20	39	40	30		10		R	SURGE PROTECTION DEVICE	
	SPARE				-	20	41	42				10	R		

TOTAL LOAD:	0	0	0	TOTAL LOAD:	10	10	10	
COMBINED LOAD:	10	10	10	CONNECTED LOAD:	30	DEMAND LOAD:	30	
						DEMAND AMPS:	0	

Load Type Key		Demand Factor	Connected Load	Demand Load	
R	General Purpose...	100% Firs...	30	30	
L	Lighting	125% Load	0	0	
M1	Largest Motor	125% Load	0	0	
M	Motor	100% Load	0	0	
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H	HVAC	75% Load	0	0	
K	Kitchen	XX% Load	0	0	XX - Units of...
E	Equipment	100% Load	0	0	
T	Transformer	100% Load	0	0	
W	Welder	100% Load	0	0	
RV	Recreational Vehicle	XX% Load	0	0	XX - RV Sites...

NOTES:

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Revisions

No.	Description	Date

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Issuance
LAND USE

Date
02.02.24

Project Number
22006

Drawing Title
PANEL SCHEDULES

Sheet No
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