

# A NEW MULTI-PURPOSE BUILDING SHOALWATER BAY INDIAN TRIBE

EAGLE HILL ROAD, TOKELAND, WASHINGTON

## LEGEND:

	GRID LINE
	LEVEL LINE
	NORTH ARROW
<b>Room name</b> 	ROOM TAG
<b>Room name</b> 	ROOM TAG W/ AREA
	BUILDING SECTION
	WALL SECTION
	DETAIL CUT
	SPOT ELEVATION
	VIEW TITLE W/ SCALE
	WALL TAG
	WINDOW TAG
	DOOR TAG

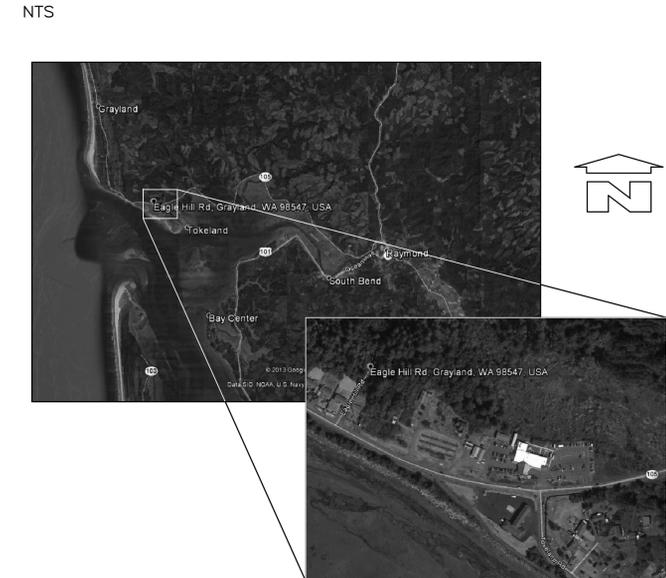
## GENERAL NOTES:

- All Insulation Materials Installed Within Floor-Ceiling Assemblies, Roof-Ceiling Assemblies, Walls, Crawl Spaces Or Attics Shall Have A Flame-Spread Rating Not To Exceed 25 And A Smoke Density Not To Exceed 450 When Tested In Accordance With U.B.C. Standard No. 42-1, (Cbc 1713 (B), (C))
- Verify Dimensions & Conditions In Field. Notify Project Coordinator If Not As Shown.
- See Structural, Civil, Mechanical, And Electrical Drawings For Additional Notes And Symbols.
- Each Contractor Is Responsible To Review The Mechanical And Electrical Drawings For Cutting And Patching Work Beyond The Limits Of The Project Shown On The Architectural Drawings.
- Each Contractor Shall Consult Plans Of All Trades For All Openings For Ducts, Pipes, Conduit, Cabinets And Equipment And Shall Verify Size And Location.
- Each Contractor Shall Verify All Rough-In Dimensions For Equipment Furnished And Installed By Himself Or Others.
- All Contractor Furnished Items Shall Be Supplied With Required Mechanical And Electrical Services To Provide Operation Of Items Furnished.
- All Recessed Electrical Panels And Cabinets And Other Recessed Cabinets Shall Be Backed With Gypsum Wall Board To Maintain The Fire Resistive Rating Of The Partition In Which The Unit Is Installed.
- Refer To Specifications For Access Doors And Consult With Mechanical Contractor For Exact Locations For Access Required By Their Work. Access Must Be Provided For All Concealed Valves, Damper Controls And Fire Damper Linkage. Obtain Approval Of Project Coordinator In Locating Access Doors.
- Room Finish Schedule Shall Not Be Taken As Complete Specification For All Interior Room Materials; However, It Shall Be Binding To The Extent Of The Material It Does Specify. The Contractor Shall Check The Schedule With The Specifications And Drawings For Other Materials Not Covered By The Schedule.
- Room And Door Numbers Shown On Drawings Are For Construction Purposes Only.
- At Stud Partitions, Studs Are To Extend To Underside Of Structure. Where They Cannot Do So, Due To Interferences With Ducts, Piping, Etc., Provide Bracing To Structure Above To Provide For Equivalent Support Of Partition.
- The Carpentry Contractor Shall Build In All Rough Bucks For Grilles, Registers, Etc. where required.
- All Piping, Conduit, Ducts, Etc. Shall Be Furred-In At All Finished Rooms.
- All Wood In Contact With Concrete Or Masonry Shall Have A Preservative Treatment.
- Place No Mains, Piping, Conduit Or Obstructions Of Any Kind So As To Impair Given Ceiling Heights And Clearances.
- Provide Blocking/Backing For Wall Hung Cabinets, Fixtures Or Equipment.
- Dimensions, In General, Are:
  - At Interior Walls Stud Face To Stud Face Of Wall/Partition.
  - At Concrete Walls To The Face Of Concrete.
  - At Masonry Walls To The Face Of Masonry (Nominal).
  - At Existing Finishes To The Face Of Finish.
  - Columns To Column Centerline Or Column Centerline To Face Of Stud.
- All Doors Not Located By Dimensions On Plans Or Details Shall Be Six Inches(6") From The Face Of Intersecting Wall To Edge Of Door Opening.
- Contractor shall review and comply with Subsurface Preparation as contained in the geotechnical engineering report T10065, dated Aug. 5, 2010, prepared by ESRA, Inc.

## DRAWING LISTS

SHEET NO.	SHEET NAME
<b>ARCHITECTURAL</b>	
A1.0	COVER SHEET
A1.1	SITE PLAN
A2.0	MAIN FLOOR PLAN
A2.1	CEILING & ROOF PLANS
A3.0	ELEVATIONS
A3.1	SECTIONS & DETAILS
A4.0	SCHEDULES & INTERIOR ELEVATIONS
<b>STRUCTURAL</b>	
S1	FOUNDATION PLAN & NOTES
S2	ROOF FRAMING PLAN
S3	DETAILS

## VICINITY MAP



## DESIGN TEAM:

ARCHITECT	STRUCTURAL
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## OWNER INFORMATION:

SHOALWATER BAY INDIAN TRIBE  
Holly Blake, Special Project Manager  
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## LOCATION

EAGLE HILL ROAD  
SHOALWATER BAY INDIAN RESERVATION  
PACIFIC COUNTY  
TOKELAND, WASHINGTON

## BUILDING AREAS

NEW BUILDING	
MAIN FLOOR	3,200 SQ FT



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NEW EOC/MULTI-PURPOSE BUILDING  
SHOALWATER BAY INDIAN TRIBE  
EAGLE HILL ROAD  
TOKELAND, WASHINGTON  
COVER SHEET

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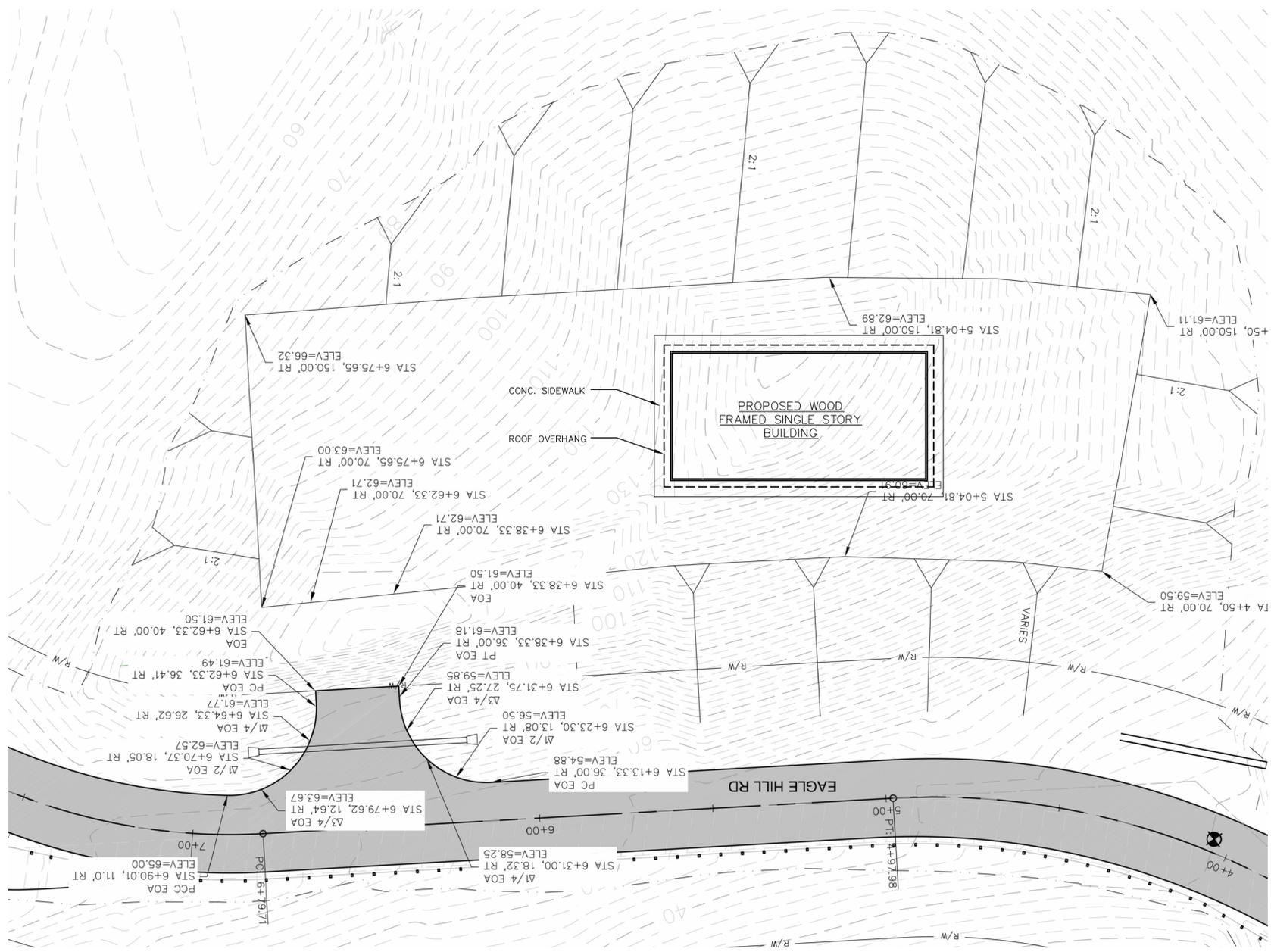
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DRAWN:	PDS	CHECKED:	RO
FILE:	121BR SHOALWATER-2		

SCALE AS NOTED

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**A1.0**

CONSTRUCTION SET



**PROPOSED SITE PLAN**

1" = 20'



CONSTRUCTION SET

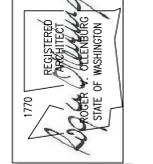
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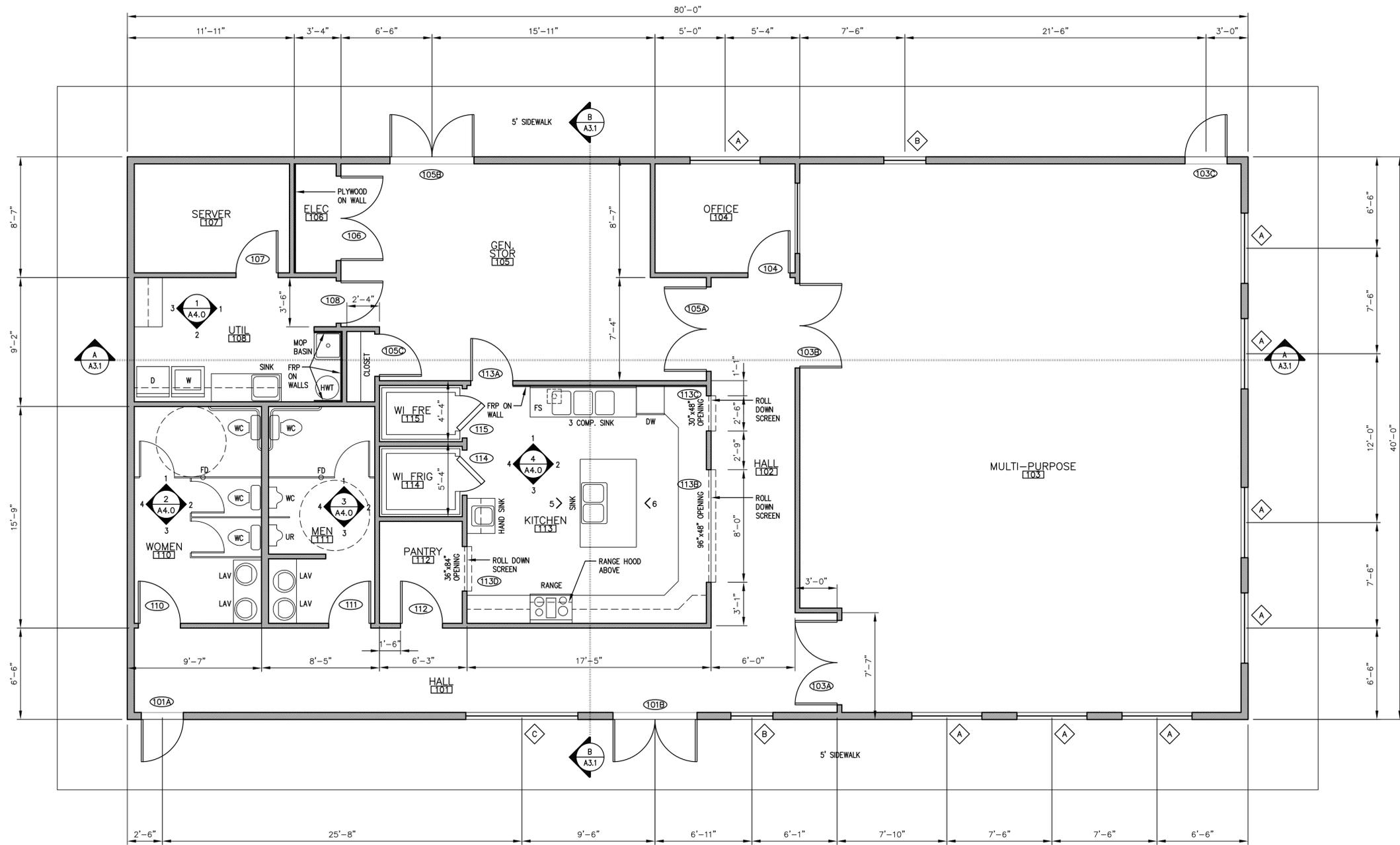
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**NEW EOC/MULTI-PURPOSE BUILDING**  
**SHOALWATER BAY ROAD TRIBE**  
**TOLEANE, WASHINGTON**  
**SITE PLAN**

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**FLOOR PLAN**

1/4" = 1'-0"

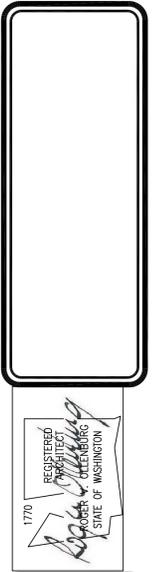


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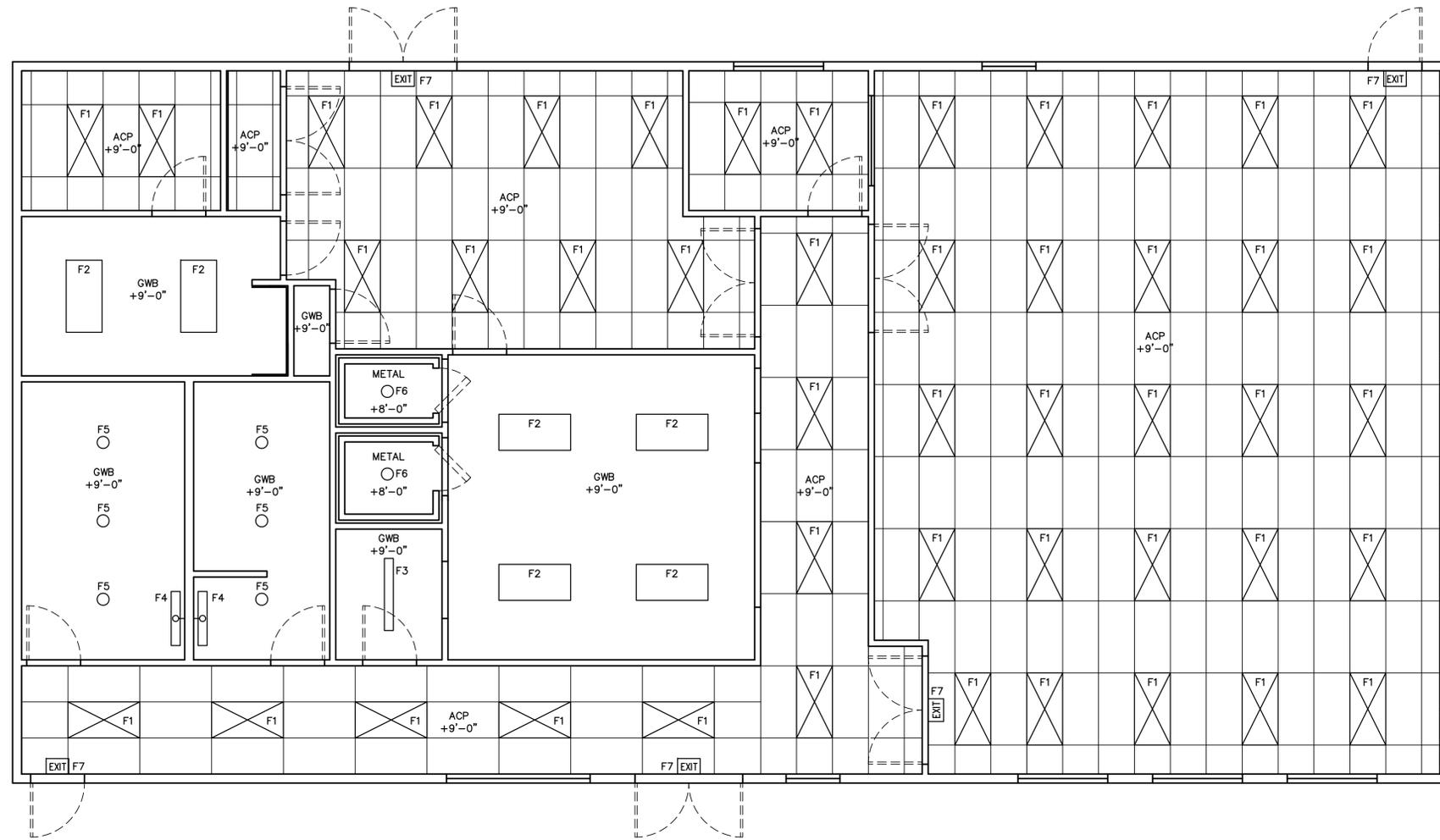
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**NEW EOC/MULTI-PURPOSE BUILDING**  
 SHOALWATER BAY INDIAN TRIBE  
 TOROLANE, WASHINGTON  
**FLOOR PLAN**

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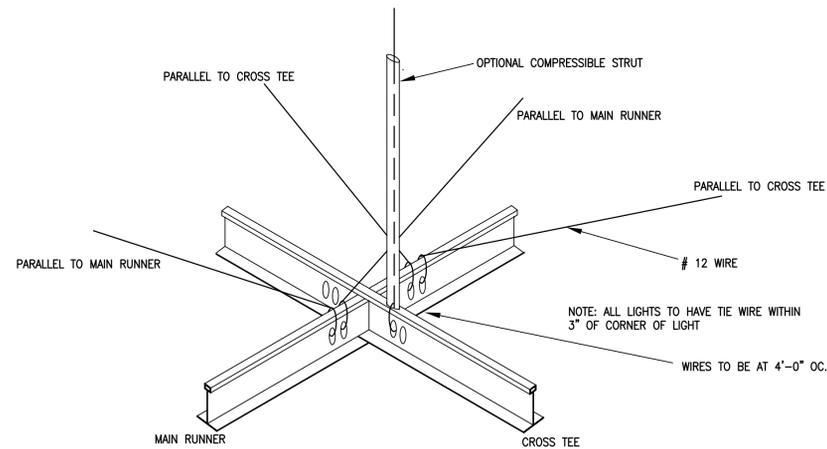


LIGHT FIXTURE SCHEDULE		
TYPE	DESCRIPTION	LAMPS
F1	COOPER METALUX 2 GC TROFFER	2 - 32WT8
F2	COOPER METALUX 2 M SERIES - SURFACE MOUNT	4 - 32WT8
F3	COOPER METALUX WS232 - SURFACE MOUNT	2 - 32WT8
F4	COOPER SHAPER 600 - 36" - 2	1 - 13WTT
F5	BEGA LIMBURG - RECESSED DOWNLIGHT	2 - 21WT5
F6	VAPOR PROOF "MILK JAR" CAST JAR & CAST BOX	100W A-19
F7	DEAL SPOT EGRESS LIGHT W/ BATTERY POWER, TRANSFER SWITCH, CHARGING CIRCUIT	



### REFLECTED CEILING PLAN

1/4" = 1'-0"

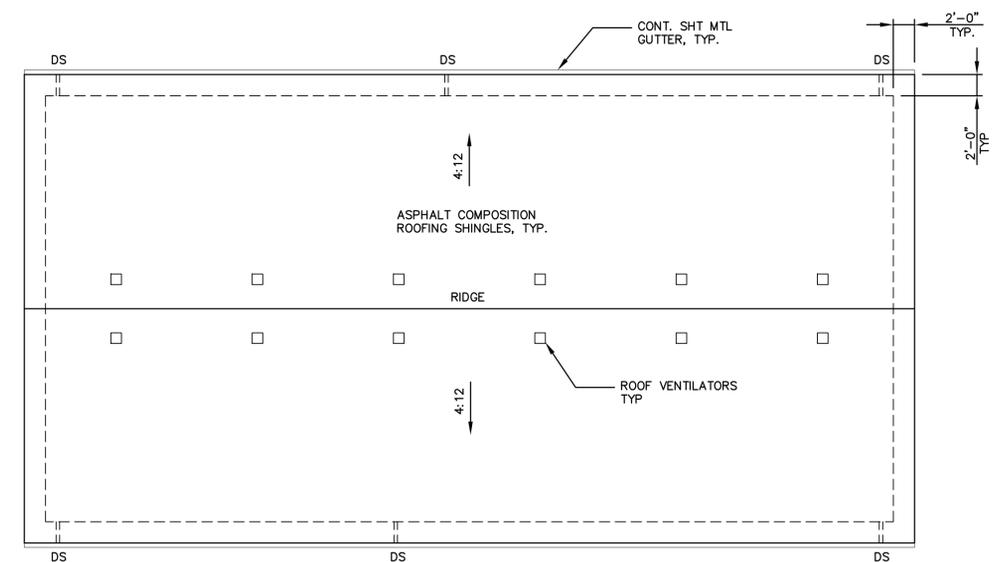


### CEILING BRACING DETAIL

PER ASTM C 635 AND C 636

### SUSPENDED ACOUSTICAL CEILING GENERAL NOTES

1. SUSPENDED ACOUSTICAL SYSTEM MATERIALS SHALL BE IN ACCORDANCE WITH IBC SECTION 803.9, AND THE INSTALLATION IN ACCORDANCE WITH PROVISIONS OF ASTM C 635 AND ASTM C 636.
2. ENTIRE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH CISCA RECOMMENDATIONS FOR SEISMIC ZONES 3 AND 4.
3. SUSPENSION SYSTEM SHALL BE HEAVY DUTY T-BAR GRID, COMPONENTS DIE CUT AND INTERLOCKING, COLOR WHITE, COMPLETE WITH ALL REQUIRED ACCESSORIES.
4. HORIZONTAL LEG OF PERIMETER CLOSURE ANGLE SHALL BE 2 INCHES MINIMUM.
5. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL, AND SHALL REST UPON AND BE FREE TO SLIDE UPON THE CLOSURE ANGLE.
6. ACOUSTICAL TILE PANELS SHALL BE INSTALLED FREE OF VISIBLE DAMAGE, TWIST, WARP, OR DENTS.
7. CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.
8. SUSPENDED CEILING SHALL BE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF ASCE 7, SECTION A.9.3.3.9, AND IBC PARAGRAPH 1705.3.4.3.



### ROOF PLAN

1/8" = 1'-0"



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**NEW EOC/MULTI-PURPOSE BUILDING**  
SHOALWATER BAY INDIAN TRIBE  
TOLALENE, WASHINGTON  
**CEILING & ROOF PLANS**

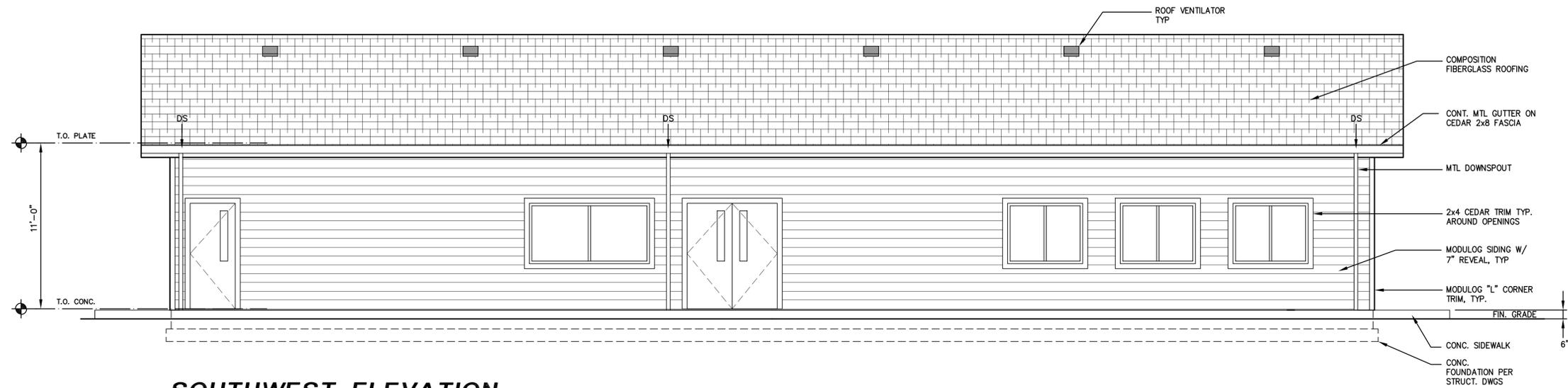
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SCALE AS NOTED

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**A2.1**

CONSTRUCTION SET



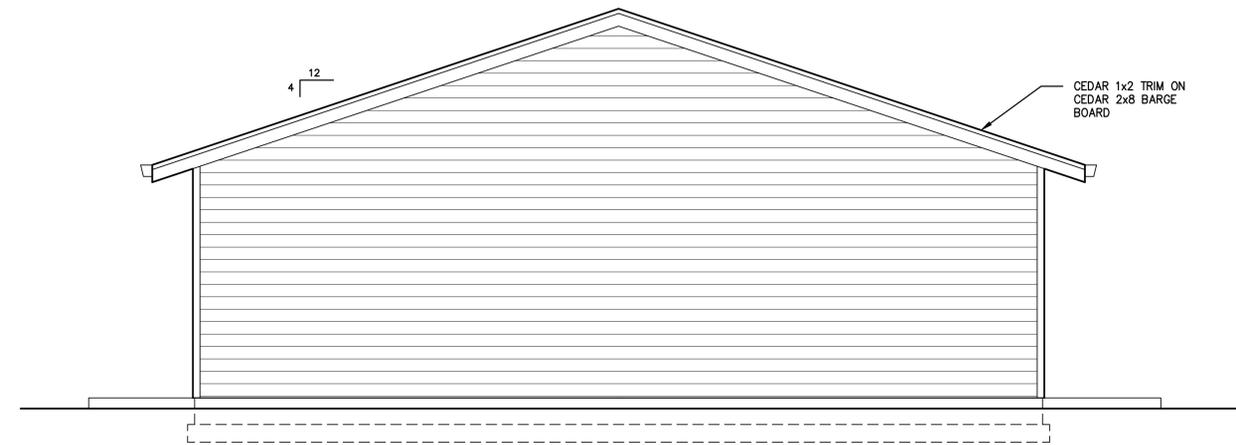
**SOUTHWEST ELEVATION**

1/4" = 1'-0"



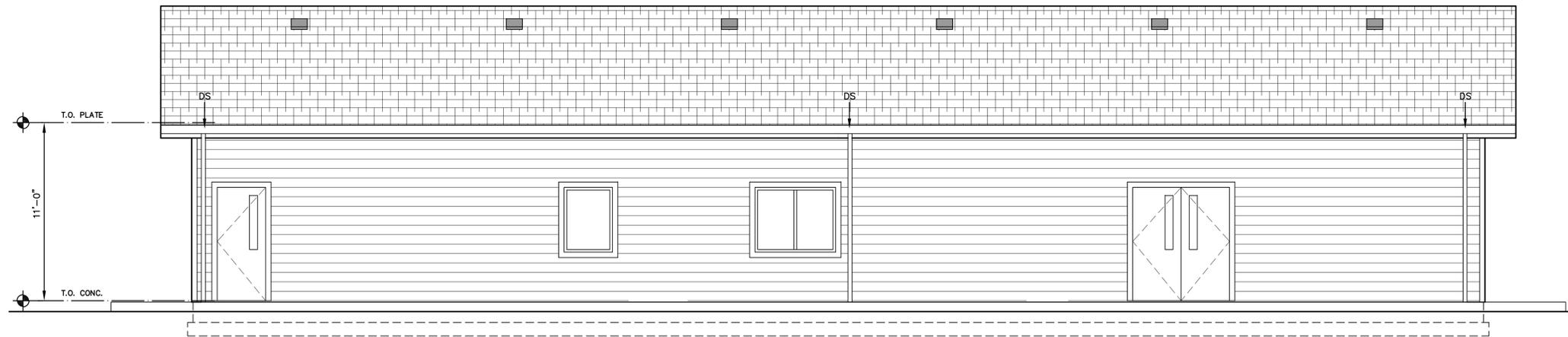
**SOUTHEAST ELEVATION**

1/4" = 1'-0"



**NORTHWEST ELEVATION**

1/4" = 1'-0"



**NORTHEAST ELEVATION**

1/4" = 1'-0"



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**NEW EOC/MULTI-PURPOSE BUILDING**  
SHOALWATER BAY INDIAN TRIBE  
106000 100TH AVENUE N.E.  
TOLLENE, WASHINGTON  
**ELEVATIONS**

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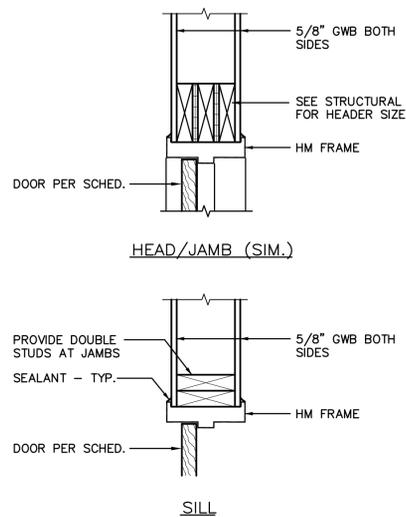
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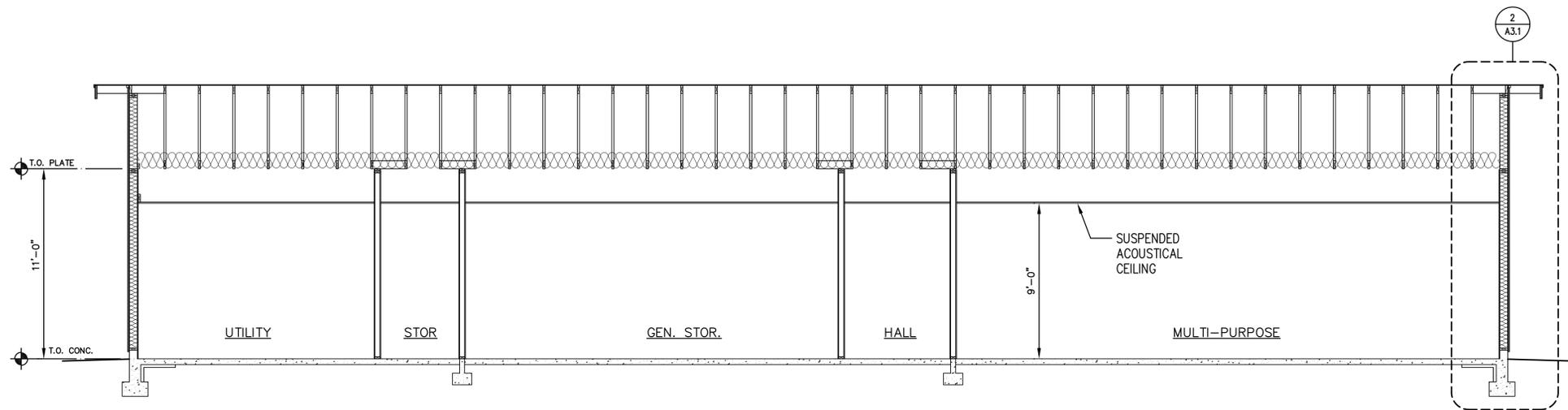
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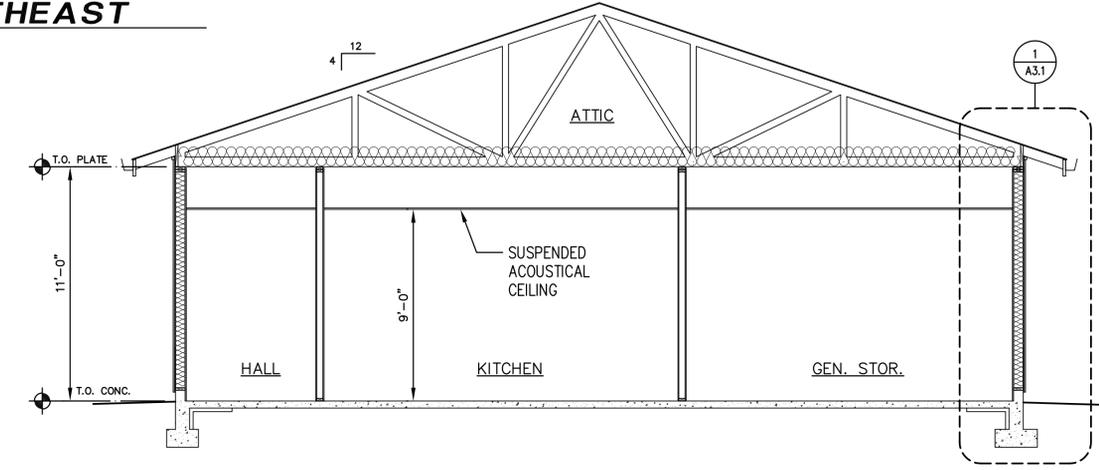
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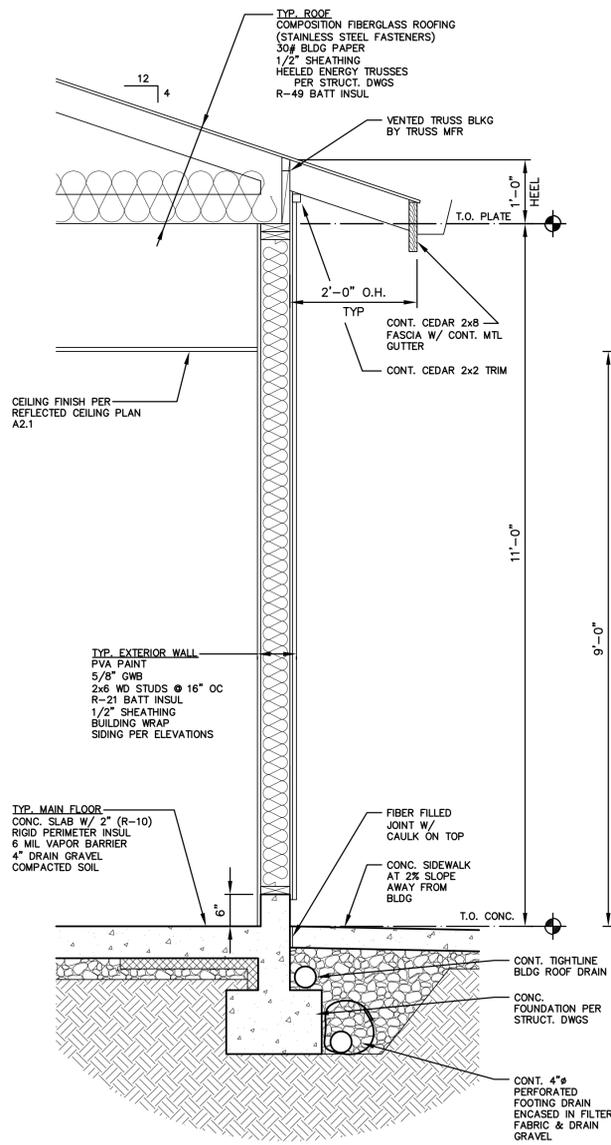
**3 INTERIOR DOOR DETAILS**  
1 1/2" = 1'-0"



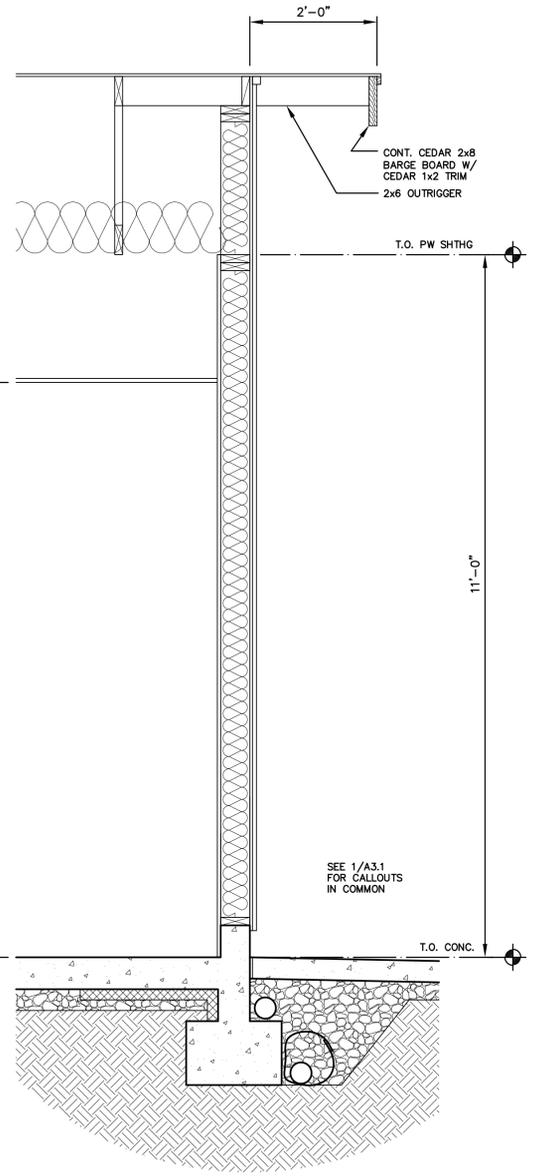
**A BUILDING SECTION LOOKING NORTHEAST**  
1/4" = 1'-0"



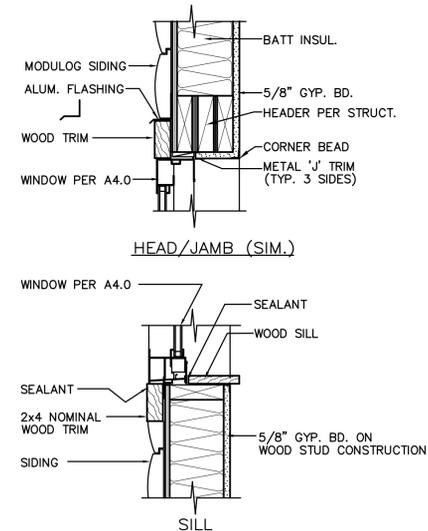
**B BUILDING SECTION LOOKING NORTHWEST**  
1/4" = 1'-0"



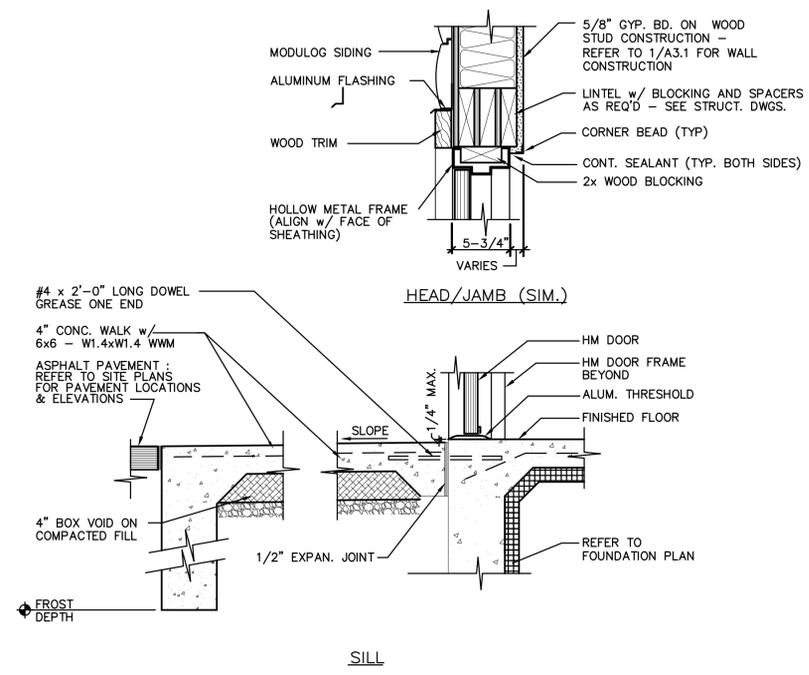
**1 TYP. WALL SECTION**  
3/4" = 1'-0"



**2 TYP. END WALL SECTION**  
3/4" = 1'-0"



**4 WINDOW DETAILS**  
1 1/2" = 1'-0"



**5 EXTERIOR DOOR DETAILS**  
1 1/2" = 1'-0"

**CONSTRUCTION SET**

REGISTERED ARCHITECT  
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**NEW ECO/MULTI-PURPOSE BUILDING**  
 SHOALWATER BAY ROAD TRIBE  
 FORELAND, WASHINGTON  
**ELEVATION & SECTIONS**

REVISIONS  
 NO. DATE DESCRIPTION

PROJ: 1218R ISSUE DATE: 5/05/15  
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 FILE: 1218R SHOALWATER-2

SCALE AS NOTED  
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**A3.1**

**FINISH SCHEDULE**

NO.	LOCATION	FLOOR		BASE		WALL		CEILING		NOMINAL HEIGHT
		RESILIENT TILE	SHEET VINYL CONCRETE (SEAL PER NOTE 1)	VINYL COVE	VINYL SELF-COVE	5/8" GYPSUM WALL BOARD FRP BOARD - 48" WAINSCOT	5/8" PLYWOOD ON GWB	5/8" PLYWOOD ON GWB	5/8" GYPSUM WALL BOARD	
101	HALL	•	•	•	•	•	•	•	•	9'-0"
102	HALL	•	•	•	•	•	•	•	•	9'-0"
103	MULTI-PURPOSE	•	•	•	•	•	•	•	•	9'-0"
104	OFFICE	•	•	•	•	•	•	•	•	9'-0"
105	GENERAL STORAGE	•	•	•	•	•	•	•	•	9'-0"
106	ELECTRICAL ROOM	•	•	•	•	•	•	•	•	9'-0"
107	SERVER	•	•	•	•	•	•	•	•	9'-0"
108	UTILITY	•	•	•	•	•	•	•	•	9'-0"
109	NOT USED	•	•	•	•	•	•	•	•	9'-0"
110	MEN	•	•	•	•	•	•	•	•	9'-0"
111	WOMEN	•	•	•	•	•	•	•	•	9'-0"
112	PANTRY	•	•	•	•	•	•	•	•	9'-0"
113	KITCHEN	•	•	•	•	•	•	•	•	9'-0"
114	WI FRIG	•	•	•	•	•	•	•	•	9'-0"
115	WI FREEZER	•	•	•	•	•	•	•	•	9'-0"

**FINISH SCHEDULE NOTES**

- MIX TO CONTAIN "ANTI-HYDRO" ADDITIVE. APPLY CONCRETE SEALER AFTER CONCRETE HAS CURED.
- SEE PLAN FOR FRP LOCATIONS
- SEE PLAN FOR PLYWOOD LOCATION

**DOOR SCHEDULE** SEE 1/A3.1 & 5/A3.2 FOR DETAILS

NO.	LOCATION	DOOR			FRAME		FIRE RATING	HARDWARE GROUP	I D DEVICE
		SIZE	MATERIAL	TYPE	FINISH	MATERIAL			
101A	HALL	36"x84"x1-3/4"	HOLLOW METAL	B	PAINT	HOLLOW METAL	PAINT	-	B
101B	HALL	(2)36"x84"x1-3/4"	HOLLOW METAL	B	PAINT	HOLLOW METAL	PAINT	-	A
103A	MULTI-PURPOSE	(2)36"x84"x1-3/4"	HOLLOW METAL	A	PAINT	HOLLOW METAL	PAINT	-	C
103B	MULTI-PURPOSE	(2)36"x84"x1-3/4"	HOLLOW METAL	A	PAINT	HOLLOW METAL	PAINT	-	H
103C	MULTI-PURPOSE	36"x84"x1-3/4"	HOLLOW METAL	B	PAINT	HOLLOW METAL	PAINT	-	B
104	OFFICE	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
105A	GEN. STORAGE	(2)36"x84"x1-3/4"	HOLLOW METAL	A	PAINT	HOLLOW METAL	PAINT	-	G
105B	GEN. STORAGE	(2)36"x84"x1-3/4"	HOLLOW METAL	B	PAINT	HOLLOW METAL	PAINT	-	A
105C	CLOSET	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
106	ELEC	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
107	SERVER	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
108	UTILITY	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
110	MEN	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	E, 2,3
111	WOMEN	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	E, 1,3
112	PANTRY	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
113A	KITCHEN	36"x84"x1-3/4"	SOLID CORE WOOD	A	PAINT	HOLLOW METAL	PAINT	-	F
113B	KITCHEN	8' x 4'	ALUMINUM	C	FACTORY	HOLLOW METAL	PAINT	-	FACTORY
113C	KITCHEN	2'-6" x 4'	ALUMINUM	C	FACTORY	HOLLOW METAL	PAINT	-	FACTORY
113D	KITCHEN	3' x 7'	ALUMINUM	C	FACTORY	HOLLOW METAL	PAINT	-	FACTORY
114	WI FRIG	3' x 7'	INSULATED METAL	A	FACTORY	FACTORY	PAINT	-	FACTORY
115	WI FREEZER	3' x 7'	INSULATED METAL	A	FACTORY	FACTORY	PAINT	-	FACTORY

**DOOR TYPES**

**HARDWARE GROUPS**

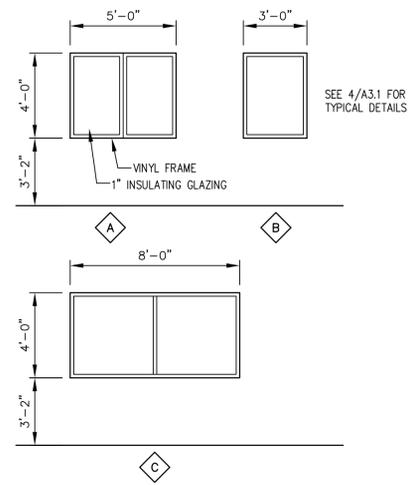
- A 3-PAIR BUTTS, EMERGENCY HARDWARE, CLOSURES, THRESHOLD, WEATHER STRIP
- B 1-1/2 PR BUTTS, EMERGENCY HARDWARE, CLOSURE THRESHOLD, WEATHER STRIP
- C 3-PAIR BUTTS, EMERGENCY HARDWARE, WALL STOP, CLOSURE, KICK PLATE
- D NOT USED
- E 1-1/2 PR BUTTS, PUSH/PULL, WALL STOP, CLOSURE, KICKPLATE
- F 1-1/2 PR BUTTS, LOCK SET, WALL STOP
- G 3-PAIR BUTTS, WALL STOPS, LOCK SET
- H 3-PAIR BUTTS, WALL STOPS, CLOSURE, KICK PLATES, LOCK SET, DROP ARM HOLDER EACH DOOR

**IDENTIFYING DEVICES**

- PLASTIC PLAQUE: "WOMEN"
- PLASTIC PLAQUE: "MEN"
- HANDICAP ACCESS SYMBOL

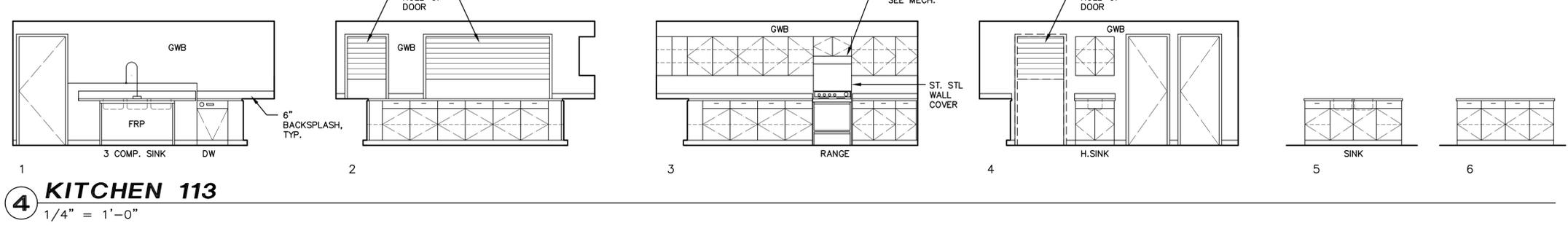
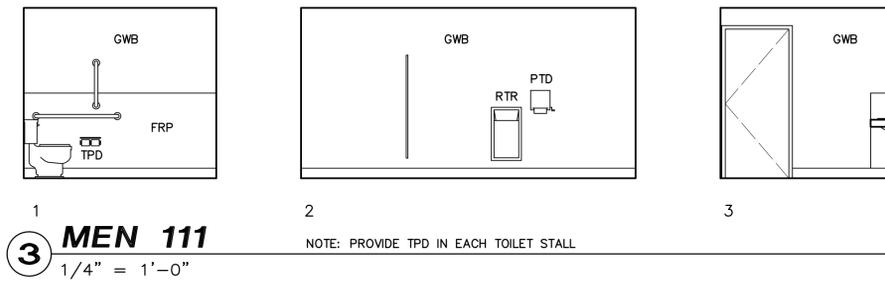
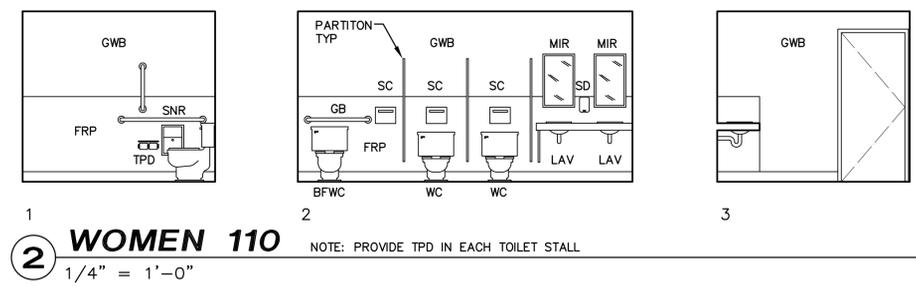
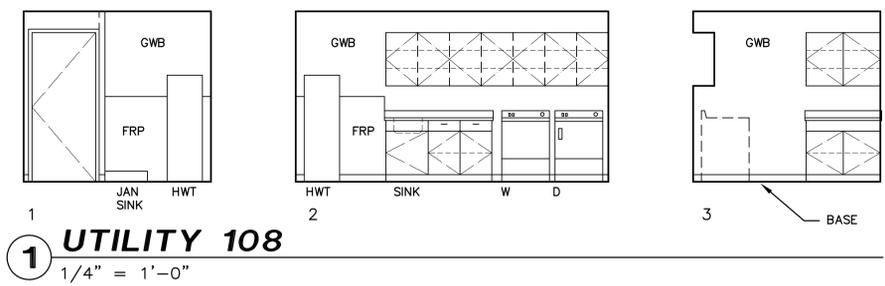
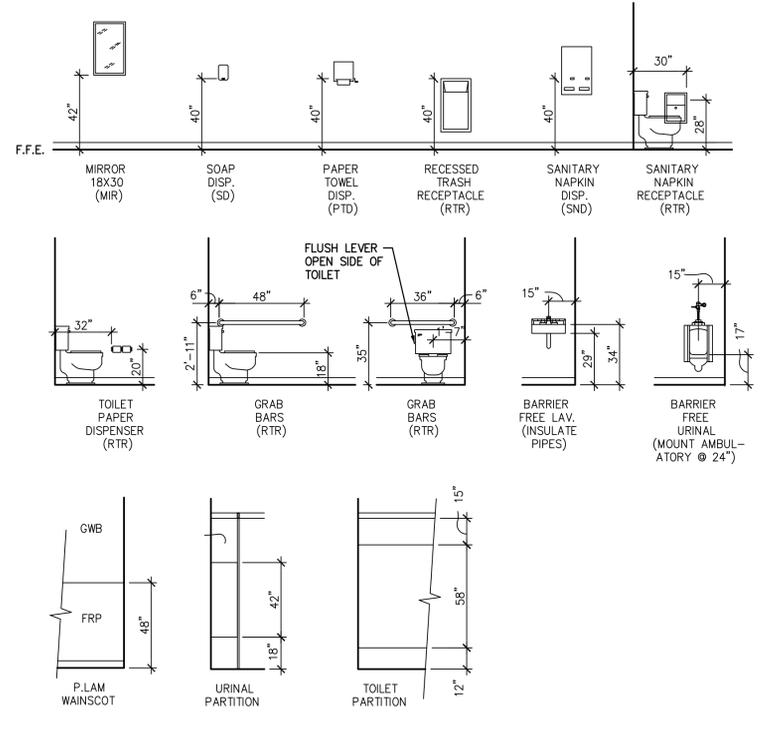
**DOOR SCHEDULE NOTES**

- THRESHOLDS AT DOORS 100, 101A, 101B, 101C & 105B SHALL HAVE A MAXIMUM HEIGHT OF 1/2".
- ALL LOCKSETS, LATCH SETS AND PRIVACY SETS SHALL HAVE LEVER HANDLES PER WA ACCESSIBILITY CODE.
- HOLLOW METAL DOORS INSULATION U = 0.60 MAX.



WINDOW	AREA EACH	NO.	AREA TOTAL	U	SHGC
A	20	8	160	0.600	0.650
B	12	2	24	0.600	0.650
C	32	1	32	0.600	0.650

**WINDOW TYPES**  
1/4" = 1'-0"



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**NEW EOC/MULTI-PURPOSE BUILDING**  
SHOALWATER BAY ROAD TRIBE  
TOWNSHIP, WASHINGTON  
**SCHEDULES & INTERIOR ELEVATIONS**

**CONSTRUCTION SET**

PROJ: 1218R ISSUE DATE: 5/05/15  
DRAWN: PDS CHECKED: RO  
FILE: 1218R SHOALWATER-2

SCALE AS NOTED

sheet:  
**A4.0**

# STRUCTURAL NOTES

1. GENERAL: STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING OR CONSTRUCTION.

CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN MADE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES NECESSARY TO PERFORM THE WORK IN A SAFE WORKMANLIKE MANNER.

THE DRAWINGS ARE INTENDED TO INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED.

EXISTING STRUCTURE IS ASSUMED TO BE STRUCTURALLY SOUND AND IN GOOD CONDITION.

2. CODE: CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE (IBC)

3. DESIGN LOADS:  
SNOW 25 POUNDS PER SQUARE FOOT

WIND BASIC WIND SPEED = 120 MPH 3-SECOND GUST, EXPOSURE D, Kzt = 1.38  
SEISMIC SITE CLASS D, R = 6.5 FOR LIGHT FRAMED WALLS WITH WOOD SHEAR PANELS

4. IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY: E3RA, INC. (T10065)  
SITE PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.  
ALLOWABLE BEARING PRESSURE= 1500PSF.

5. CONCRETE: CONCRETE SHALL BE FORMED, MIXED, PLACED AND FINISHED IN ACCORDANCE WITH ACI 318 AND IBC CHAPTER 19. CONCRETE STRENGTH SHALL BE 2500 psi WITH A 5½ SACK MIX.

CENTER FOOTINGS ON COLUMNS AND WALL ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.  
TYPICAL SILL ANCHOR BOLTS SHALL BE 1/2" DIA @ 4'-0" WITH 7" MIN EMBEDMENT, UNO. PROVIDE 3" SQ x 0.229" WASHERS AT ALL ANCHOR BOLTS.

6. REINFORCING STEEL: DEFORMED BARS SHALL CONFORM TO ASTM A615, GRADE 60.  
WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND SHALL BE IN SHEET FORM. WWF IN ROLLS IS NOT PERMITTED. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315.

BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE.

WELDING OF REINFORCING IS PROHIBITED UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER.

REINFORCING STEEL SHALL HAVE CONCRETE COVER AS FOLLOWS:  
BEAMS AND COLUMN BARS 1 1/2" TO STIRRUPS OR TIES  
SLAB BARS 3/4"  
WALL BARS: INTERIOR FACE 3/4"  
          EXPOSED TO WEATHER 1 1/2" (#5 AND SMALLER)  
          OR EARTH 2" (#6 AND LARGER)  
FOOTING BARS CAST AGAINST EARTH 3"

BAR LAP SPLICES SHALL BE CLASS B SPLICES AS SHOWN IN THE TABLE BELOW, UNLESS NOTED OTHERWISE. STAGGER ALL SPLICES. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE BELOW THE REINFORCEMENT.

LAP SPLICE TABLE

BAR	OTHER BARS		TOP BARS		TENSION EMBEDMENT
	CLASS A	CLASS B	CLASS A	CLASS B	
3	12	16	14	18	12
4	15	19	19	24	15
5	18	23	23	30	18
6	24	31	31	40	24

7. TIMBER AND LUMBER: ALL 2X, 3X AND 4X MEMBERS SHALL BE HEM FIR NO. 2 OR BETTER. STUDS AND PLATES SHALL BE HEM FIR, CONSTRUCTION OR BETTER. ALL TIMBER AND LUMBER SHALL CONFORM TO THE REQUIREMENTS OF WMPA GRADING RULES. PLATES AND OTHER MEMBERS IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED PER IBC 2303.1.8. STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING JOINTS AT CORNERS AND AT INTERSECTION WITH BEARING PARTITIONS.

PSL SHALL E 2.0E PARALLAM AS MANUFACTURED BY TRUS JOIST MACMILLIAN.  
TJI SHALL BE MANUFACTURED BY TRUS JOIST MACMILLIAN AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARD OF THE IBC.

8. NAILS, BOLTS AND CONNECTORS: UNLESS OTHERWISE NOTED, MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.9.1. ALL NAILS SHALL BE COMMON WIRE NAILS. CONNECTORS SHALL BE SIMPSON STRONG-TIE.

HOLD-DOWNS, POST/BEAM AND BEAM/BEAM CONNECTIONS SHALL BE MADE USING SIMPSON LIGHT GAGE METAL FRAMING CONNECTORS.

9. SHEATHING: SHEATHING SHALL BE APA RATED SHEATHING, C-D EXTERIOR GRADE W/ 48/24 SPAN RATING. NAILS SHALL BE 8d FOR PLYWOOD. MINIMUM NAILING SHALL AT 6" FOR ALL PANEL EDGES AND AT 12" AT INTERMEDIATE SUPPORTS UNO.

10. SPECIAL INSPECTION IS REQUIRED AS FOLLOWS PER IBC CHAPTER 17:  
A. CONCRETE: f'c = 2500psi--NOT REQUIRED  
B. A307 ANCHOR BOLTS IN CONCRETE (PER 1704.4)--NOT REQUIRED  
C. ANCHORS INSTALLED IN HARDENED CONCRETE--PERIODIC

11. PRE-MANUFACTURED WOOD TRUSSES: TRUSSES SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND FABRICATED FROM THAT DESIGN. TRUSS DESIGN LOADS SHALL BE AS SHOWN ABOVE. TRUSS DESIGN SHALL BE STAMPED BY THE DESIGNER AND SUBMITTED FOR REVIEW BY THE ENGINEER OF RECORD.

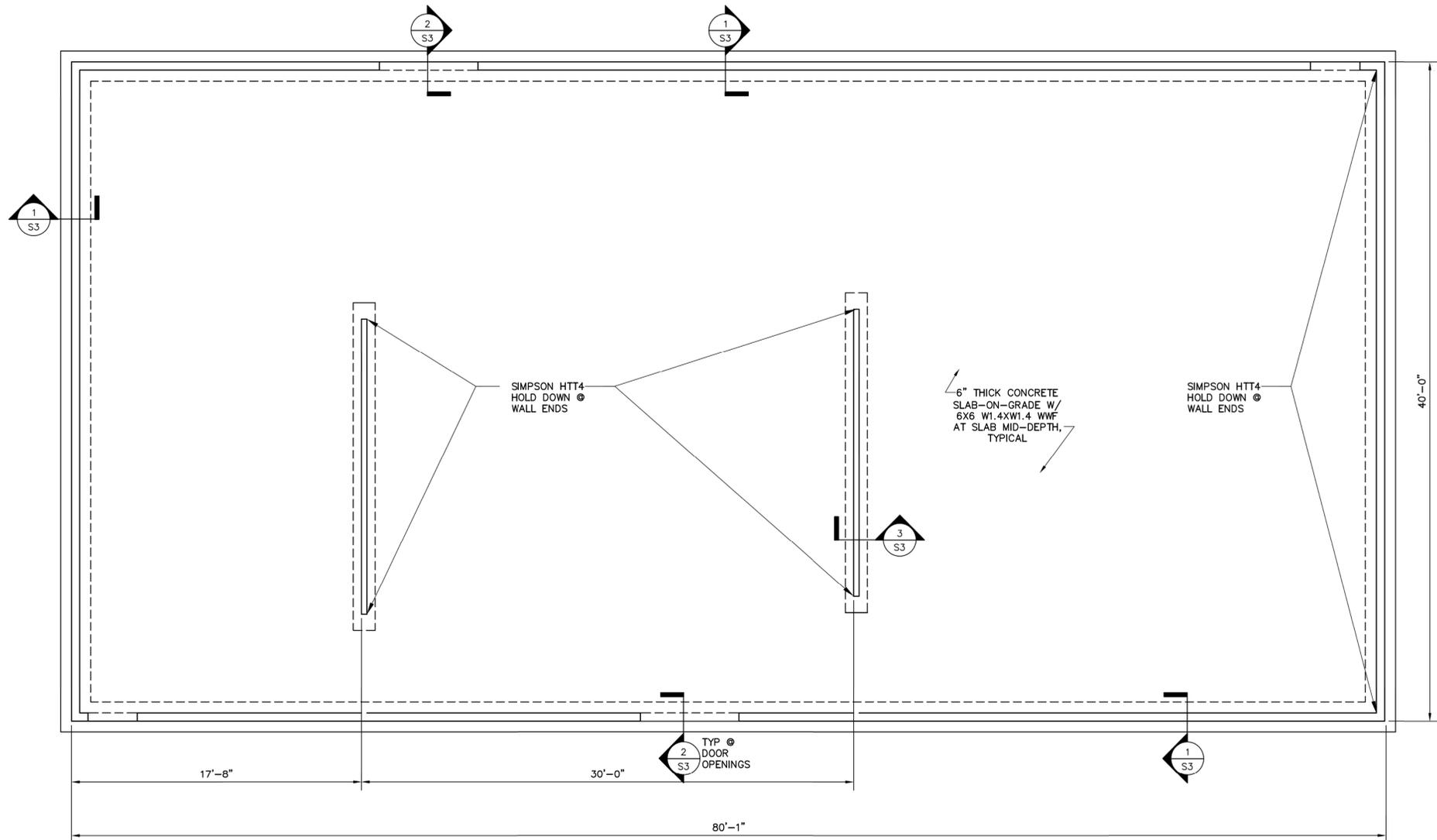
12. CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD: ALL CONNECTIONS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED STEEL OR STAINLESS STEEL. HOT DIPPED GALVANIZED FASTENERS SHOULD CONFORM TO ASTM A153 AND HOT DIPPED GALVANIZED CONNECTORS SHALL CONFORM TO ASTM A653 (COATING DESIGNATION G-185). STAINLESS STEEL FASTENER AND CONNECTORS SHALL BE TYPE 304 OR 316. (ELECTROPLATED GALVANIZED FASTENERS AND CONNECTORS ARE NOT TO BE USED WITH PRESSURE TREATED WOOD. SIMPSON PRODUCT FINISHES CORRESPONDING TO THE ABOVE REQUIREMENTS ARE ZMAX (HOT DIPPED GALVANIZED) AND SST300 (STAINLESS STEEL).

## SHEAR WALL TABLE

TYPE	COMPONENTS	A35 (450#)	1/2" DIA AB
1	15/32" MIN EXPOSURE 1 APA RATED SHEATHING, ALL PANEL EDGES BLOCKED W/ 8d NAILS @ 6" ALL PANEL EDGES AND @ 12" AT INTERMEDIATE SUPPORTS. (220 plf allowable)	24"	4'-0" (16d @ 6" or LPT4 @ 4'-0")

ROOF DECK DIAPHRAGM: 15/32" MIN EXPOSURE 1 APA RATED SHEATHING, UNBLOCKED, W/ 8d NAILS @ 6" AT SUPPORTED PANEL EDGES AND 8d NAILS @ 12" AT INTERMEDIATE SUPPORTS. NAILS REQUIRE 1 5/8" MIN. PENETRATION.

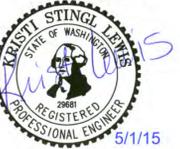
NOTE 1: DRILLED ANCHOR BOLTS ARE EQUIVALENT TO CAST IN ANCHOR BOLTS FOR SHEAR WALL CALCULATIONS.



FOUNDATION PLAN

1/4" = 1'-0"

1  
-



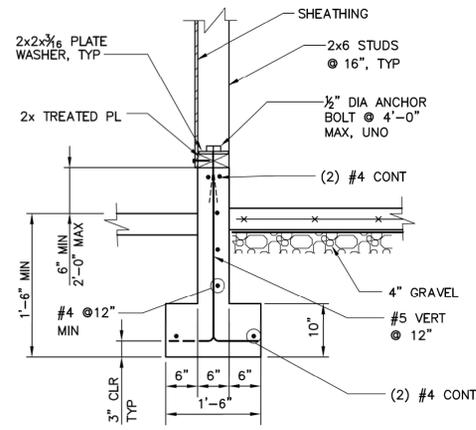
19229 90th Place South  
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lewis790@comcast.net

**LEWIS**  
ENGINEERING  
CONSULTANTS

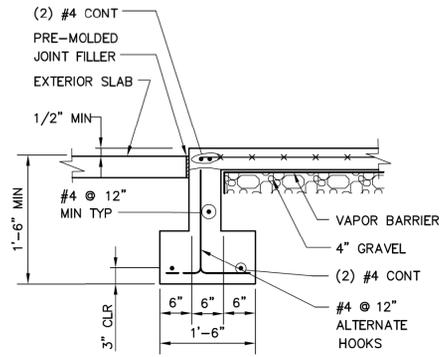
NEW MULTI-PURPOSE BUILDING  
SHOALMISTE HALL  
TONGUE POINT TRIBE  
TONGUE POINT, WASHINGTON

DESIGNER:  
DATE: 15-011  
ISSUE NO: 01  
DRAWN: KSL  
CHECKED: KSL  
TITLE: SCALE AS NOTED  
sheet: S1

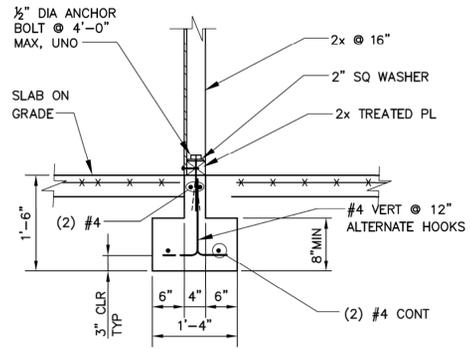




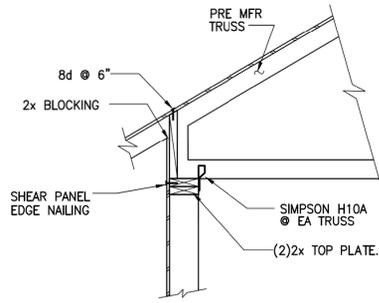
SECTION 1  
3/4" = 1'-0"



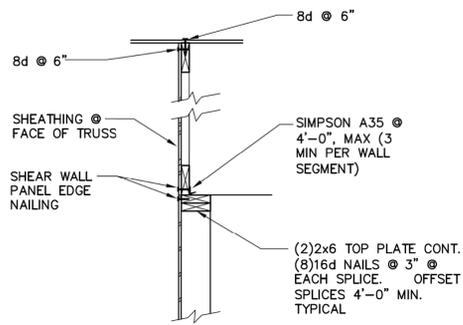
SECTION 2  
3/4" = 1'-0"



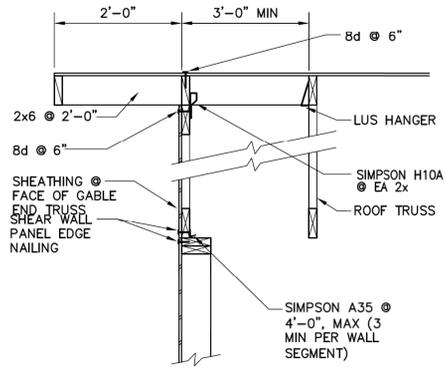
SECTION 3  
3/4" = 1'-0"



SECTION 11  
3/4" = 1'-0"



SECTION 12  
3/4" = 1'-0"



SECTION 13  
3/4" = 1'-0"



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**LEWIS**  
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CONSULTANTS

NEW MULTI-PURPOSE BUILDING  
SHOALWATER BAY INDIAN TRIBE  
WALLS  
TOKELAND, WASHINGTON

REVISIONS	DESCRIPTION
NO. DATE	

PROJ: 15-011	ISSUE NO: 2/5/15
DRAWN:	CHECKED: KCL
FILE:	

SCALE AS NOTED

sheet: S3



**GENERAL CONSTRUCTION NOTES**

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2012, AND AMENDMENTS.
- ALL CONSTRUCTION PRACTICES AND PROCEDURES WILL COMPLY WITH THE PERTINENT PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARD (TITLE 29, CODE OF FEDERAL REGULATIONS) PUBLISHED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, DEPARTMENT OF LABOR.
- ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE AT EACH STRUCTURE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK.
- ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES, ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK.
- IN ORDER TO ALLEVIATE DUST CONDITIONS WITHIN THE PROJECT LIMITS OR OTHER DEVELOPED AREAS DURING AND AFTER GRADING OPERATIONS, BUT BEFORE PAVEMENT WORK IS STARTED, THE CONTRACTOR SHALL SPRINKLE GRADE AT INTERVALS AS DESIGNATED BY THE ENGINEER, COST OF SPRINKLING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.
- COST OF EQUIPMENT AND MATERIALS WHICH ARE NOT COVERED BY PAY ITEMS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITY LINES AND STRUCTURES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SO CARRY ON THE CONSTRUCTION SUCH THAT NO DAMAGE OCCURS TO ANY UTILITY OR STRUCTURES REMAINING IN PLACE. ANY DAMAGE TO UTILITIES OR STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
- ALL MISCELLANEOUS REMOVAL ITEMS NOT LISTED SEPARATELY IN THE PAY QUANTITIES SHALL BE INCLUDED IN THE PAY QUANTITY FOR CLEARING AND GRUBBING.
- ALL WASTE MATERIAL SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AND TRAFFIC DETOURING WITH THE TRIBE'S TRANSPORTATION DEPARTMENT.
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON THE PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT CONSTRUCTION, AT THE CONTRACTOR'S OWN EXPENSE, AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR IS ADVISED THAT SOME UTILITY ADJUSTMENTS, BY UTILITY COMPANIES AND THE TRIBE, MAY BE REQUIRED DURING CONSTRUCTION. THE CONTRACTOR WILL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH HIS OWN WORK.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING STREET IMPROVEMENTS WHICH ARE TO REMAIN IN-PLACE FROM DAMAGE, AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE TRIBE'S TRANSPORTATION DEPARTMENT AND THE AWARDED OFFICIAL.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
- EXACT LOCATION OF SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY THE OWNER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
- CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTLETS, ETC. TO FINISH GRADE AS APPLICABLE, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE, AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK, OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION.
- THE CONTRACTOR SHALL REMOVE AND RESET MAILBOXES AS NECESSARY. MAILBOXES ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIER'S CAR DURING CONSTRUCTION. ANY DAMAGE TO BOXES OR SUPPORTS SHALL BE REPAIRED BY THE CONTRACTOR. COST OF KEEPING MAILBOXES UPRIGHT TO BE INCLUDED IN OTHER ITEMS OF WORK.
- WHENEVER ENCOUNTERING ARCHAEOLOGICAL REMAINS DURING THE EXCAVATION ON THE PROJECT SITE, THE CONTRACTOR SHALL IMMEDIATELY CEASE THE OPERATION IN THE NOTED AREA OF CONCERN AND NOTIFY THE TRIBAL PROJECT INSPECTOR AND THE SHOALWATER BAY ENVIRONMENTAL DEPARTMENT AT (360) 267-3101 EXT. 26 FOR AN EVALUATION.

**TRAFFIC GENERAL CONSTRUCTION NOTES**

- ANY SIGNS AND OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE PROJECT INSPECTOR, UNTIL SUCH A TIME THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK WILL BE INCLUDED IN OTHER ITEMS OF WORK.
- EXISTING ROADWAY TO REMAIN OPEN TO LOCAL TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION", AND AS SHOWN ON THE TRAFFIC CONTROL STANDARD DRAWINGS.
- STATION LOCATIONS SHOWN ON PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF DIGGING, TRENCHING, BORING, ETC. PRIOR TO DIGGING NEAR UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE APPROPRIATE AGENCIES.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE TRIBE'S TRANSPORTATION DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS, WHERE WARRANTED, IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO ENSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST ON SITE TO SET-UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE RIGHTS OF WAY.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- MAINTENANCE OF THROUGH TRAFFIC INCLUDES MAINTENANCE OF DETOURS CONSTRUCTED BY THE CONTRACTOR, AS WELL AS THE MAINTENANCE OF THE EXISTING ROAD FROM THE BEGINNING TO THE END OF THE NEW CONSTRUCTION, OR AS OTHERWISE SHOWN ON THE PLANS.

**ABBREVIATIONS**

- BM - BENCHMARK
- CL - CENTERLINE
- CONST - CONSTRUCT
- ORL - CONSTRUCTION REFERENCE LINE
- E - EAST
- ELEV - ELEVATION
- EX - EXISTING
- FL - FLOW
- FT - FEET
- HMA - HOT MIX ASPHALT
- HOR - HORIZONTAL
- L - LENGTH
- LFS - LEFT FOREWORD SCEW
- LT - LEFT
- MAX - MAXIMUM
- MIN - MINIMUM
- MON - MONUMENT
- N - NORTH
- OFF - OFFSET
- PC - POINT OF CURVE
- PCC - POINT OF COMPOUND CURVE
- PI - POINT OF INTERSECTION
- PT - POINT OF TANGENT
- R - RADIUS
- RCP - REINFORCED CONCRETE PIPE
- RD - ROAD
- R/W - RIGHT-OF-WAY
- RT - RIGHT
- S - SOUTH
- SEC - SECTION
- SP - SPECIAL
- STA - STATION
- STD - STANDARD
- SR - STATE ROUTE
- T - TANGENT
- TYP - TYPICAL
- VERT - VERTICAL
- W - WEST
- WSDOT - WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

**PROJECT NOTES**

- THIS PLAN INCLUDES A SPECIFIC EROSION CONTROL PLAN. WSDOT STANDARD TEMPORARY EROSION CONTROL SHEETS ARE INCLUDED WITH TYPICAL APPLICATION DRAWINGS WHICH MAY APPLY TO THIS PROJECT. EROSION CONTROL ITEMS ARE INCLUDED IN THE PLAN AS PAY ITEMS AND WILL REQUIRE THE FOLLOWING WORK TO BE PERFORMED BY THE CONTRACTOR:
  - THE CONTRACTOR SHALL MODIFY THE TEMPORARY EROSION CONTROL PLAN AS NECESSARY FOR CONSTRUCTION OPERATIONS WITHIN THE PROJECT LIMITS. THE PLAN SHOULD INCLUDE ITEMS FOR ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS THAT ARE NOT PAVED OR OTHERWISE PROTECTED.
  - THE CONTRACTOR SHALL ALSO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA WHICH STATES THE CONTRACTOR'S (AS JOINT PERMITTEE) INTENT TO DISCHARGE STORM WATER FROM THE PROJECT ACCORDING TO THE ITEMS AND PROVISIONS OF THE PERMIT AND THE SWPPP. THE CONTRACTOR SHALL CARRY OUT THE REQUIREMENTS OF THE EROSION CONTROL PLAN AND THE SWPPP DURING THE LIFE OF THE PROJECT. ALL ITEMS REQUIRED TO CARRY OUT THE PROVISIONS OF THESE PLANS SHALL BE INCLUDED IN THE COST OF EROSION CONTROL ITEMS AND ALL CONSTRUCTION WILL BE GOVERNED BY THE REQUIREMENTS OF THE EPA PERMIT.
- THESE PLANS INCLUDE A GENERIC LAYOUT FOR DEVELOPMENT OF A TRAFFIC CONTROL PLAN (T.C.P.). AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A T.C.P., TAILORED TO THE CONTRACTOR'S OPERATIONS, FOR REVIEW AND APPROVAL BY THE AWARDED OFFICIAL. THE T.C.P. WILL COMPLY WITH THE CURRENT M.U.T.C.D. AND SECTION 1-10 TEMPORARY TRAFFIC CONTROL WSDOT SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS/ ALTERNATIVES/ REVISIONS 10 DAYS PRIOR TO NEED / USE.
- THE PROPOSED CULVERTS SHOWN IN THIS PLAN SET WERE SIZED BY THE DRAINAGE REPORT ENTITLED "SR105 CULVERT HYDROLOGY STUDY REPORT FOR THE SHOALWATER BAY INDIAN TRIBE" PREPARED BY DR TONG LI OF GROUND WATER SOLUTIONS, LLC FOR THE SHOALWATER BAY INDIAN TRIBE.

**M.P.B. - SITE DEVELOPMENT**  
**SHOALWATER BAY INDIAN TRIBE**  
**PACIFIC COUNTY, WASHINGTON**  
**GENERAL NOTES**



RED PLAINS PROFESSIONAL, INC  
 1499 SE TECH CENTER PLACE  
 SUITE 290  
 VANCOUVER, WA 98683  
 TEL: (360) 448-7999  
 FAX: (360) 258-0274

REVISIONS	
NO.	DESCRIPTION

PROJ. 60046  
 SHT. C1.1

FILENAME: z:\projects\60046 - shoalwater mps site civil design\16 cadd\production\60046 - site layout.dwg, Plotted: 4/15/2014 5:58 AM, By: Randy Hindler, TABL010



# STORM WATER MANAGEMENT PLAN

## SITE DESCRIPTION

PROJECTS LIMITS: 2,948.50' WEST OF THE INTERSECTION OF STATE ROUTE

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PROJECT DESCRIPTION: INSTALLATION OF A BUILDING, PARKING LOT, AND ENTRANCE ROAD. TOTAL ADDITIONAL IMPERVIOUS IS APPROXIMATELY 22,050 SQUARE FEET.

\_\_\_\_\_  
 \_\_\_\_\_

SUGGESTED SEQUENCE OF CONSTRUCTION: \_\_\_\_\_

1. INSTALL SEDIMENT CONTROL FENCING AT CLEARING LIMITS.
2. INSTALL TRAFFIC CONTROL.
3. BEGIN INSTALLATION OF STRUCTURES AND GRADING.
4. STABILIZE SOILS & SLOPE PROTECTION.
5. ROAD CONSTRUCTION, PAVING AND PAVEMENT REPAIRS.
6. COMPLETE FINE GRADING AND MAINTAIN BMP'S.

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SPECIAL INSTRUCTIONS: NONE

\_\_\_\_\_  
 \_\_\_\_\_

TOTAL AREA TO BE DISTURBED: APPROXIMATELY 1.05 ACRES

WEIGHTED RUNOFF COEFFICIENT: \_\_\_\_\_

NOTE: THIS SHOULD BE DETERMINED BY THE HYDRAULIC DESIGNER FOR THE PROJECT. THIS VALUE SHOULD BE THE AVERAGE "C" FACTOR USED ON THE PROJECT. IT SHOULD BE BASED ON THE ANTICIPATED FUTURE LAND USE.

NAME OF RECEIVING WATERS: \_\_\_\_\_

NOTE: THIS SHOULD DESCRIBE EACH NAMED CREEK, RIVER OR BODY OF WATER WHICH IS RECEIVING STORM WATER RUNOFF.

## EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- \_\_\_\_\_ TEMPORARY SEEDING
- \_\_\_\_\_ PERMANENT SODDING, SPRIGGING OR SEEDING
- \_\_\_\_\_ VEGETATIVE MULCHING
- \_\_\_\_\_ SOIL RETENTION BLANKET
- PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS ARE TO BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 21 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

- \_\_\_\_\_ TEMPORARY BRUSH SEDIMENT BARRIERS
- TEMPORARY SILT FENCE
- TEMPORARY SILT DIKES
- \_\_\_\_\_ TEMPORARY BALE BARRIERS
- \_\_\_\_\_ DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- \_\_\_\_\_ DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- SANDBAG CHECK DAMS
- \_\_\_\_\_ ROCK FILTER DAMS
- \_\_\_\_\_ TEMPORARY SLOPE DRAINS
- \_\_\_\_\_ PAVED DITCH W/ DITCH LINER PROTECTION
- \_\_\_\_\_ TEMPORARY DIVERSION CHANNELS
- RIP RAP
- \_\_\_\_\_ TEMPORARY STREAM CROSSING
- \_\_\_\_\_ TEMPORARY SEDIMENT BASINS
- \_\_\_\_\_ TEMPORARY SEDIMENT TRAPS
- \_\_\_\_\_ TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- \_\_\_\_\_ INLET SEDIMENT FILTERS
- STABILIZED CONSTRUCTION EXIT

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES FROM THE PROJECT AFTER CONSTRUCTION IS COMPLETED AND ACCEPTED.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

All erosion and sediment controls will be maintained in good working order from the beginning of construction until an acceptable vegetative cover is established. Inspection by the Contractor and any necessary repairs shall be performed once every seven (7) calendar days and within forty-eight (48) hours after any storm event greater than one-half (1/2) inches of rain within a twenty-four (24) hour period (as recorded by a non-freezing rain gauge to be located on site). Potentially erodible areas, drainageways, material storage, structural devices, construction entrances and exits along with erosion and sediment control location are examples of sites that need to be inspected.

Contractors shall perform an inspection every seven (7) days. Project Inspector will complete a Storm Water Pollution Prevention Plan Inspection and Maintenance Form each Monday and this form will be given to the Contractor's Representative for his signature. If deficiencies are found the contractor will be given seven (7) days for correction. If erosion and sediment control is not maintained as specified, a fine will be assessed in the amount of \$250.00 per day as directed by the Engineer.

WASTE MATERIALS:

Proper management and disposal of construction waste material is required by the Contractors. Materials include stockpiles, surplus, debris and other by-products from the construction process. Practices include disposal, proper materials handling spill prevention and cleanup measures. Controls and practices shall meet the requirements of all Federal, State and Local agencies.

HAZARDOUS MATERIALS:

Proper management and disposal of hazardous waste materials is required. The Contractor is responsible for following manufacturer's recommendations, State and Federal regulations to ensure correct handling, disposal spill prevention and cleanup measures. Examples include but are not limited to: paints, acids, cleaning solvents, chemical additives, concrete curing compounds and contaminated soils.

GENERAL NOTES:

A Storm Water Pollution Prevention Plan (SWPPP) is required to comply with the Washington Pollution Discharge Elimination System (WPDES) regulations. This basic goal of stormwater management is to improve water quality by reducing pollutants in storm water discharges. Runoff from sites has a potential for pollution due to exposed soils and presence of hazardous materials used in the construction process. The prevention of soil erosion, containment of hazardous materials and/or the interception of these pollutants before they leave the construction site are the best practices for controlling storm water pollution.

The following Subsections of WSDOT's Standard Specification book should be noted:

- 1-07.1 Laws To Be Observed
- 1-07.5 Environmental Regulations
- 1-07.13 Contractor's Responsibility for Work
- 1-07.15 Temporary Water Pollution/Erosion Control
- 2-01 Clearing, Grubbing, and Roadside Cleanup
- 8-01 Erosion Control and Water Pollution Control

In addition:

"EPA - Final NPDES General Permits for Storm Water Discharges From Construction Sites: Notices" Federal Register, Wednesday, September 9, 1992 - Volume 57, Number 175

NOTE: NOTICE OF INTENT (NOI) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR SHALL NOT PROCEED WITH PROJECT WORK UNTIL ENVIRONMENTAL PROTECTION AGENCY HAS NOTIFIED THE SHOALWATER BAY TRIBE OF APPROVAL. THE CONTRACTOR SHALL GIVE A COPY OF THE NOI TO THE SHOALWATER BAY ROADS MANAGER AND A COPY SHALL BE POSTED ON THE PROJECT AT ALL TIMES.

The mailing address for the NOI Processing Center is:

For Regular U.S. Mail Delivery:  
 Storm Water Notice Processing Center  
 Mail Code 4203M  
 U.S. EPA  
 1200 Pennsylvania Avenue, NW  
 Washington, DC 20460

For Overnight / Express Mail Delivery:  
 Storm Water Notice Processing Center  
 Room 7420  
 U.S. EPA  
 1201 Constitution Avenue, NW  
 Washington, DC 20460

Permittees may contact the NOI Processing Center at (866) 352-7755 to determine the status of a particular form.

**M.P.B. - SITE DEVELOPMENT**  
**SHOALWATER BAY INDIAN TRIBE**  
**PACIFIC COUNTY, WASHINGTON**  
**STORM WATER MANAGEMENT PLAN**



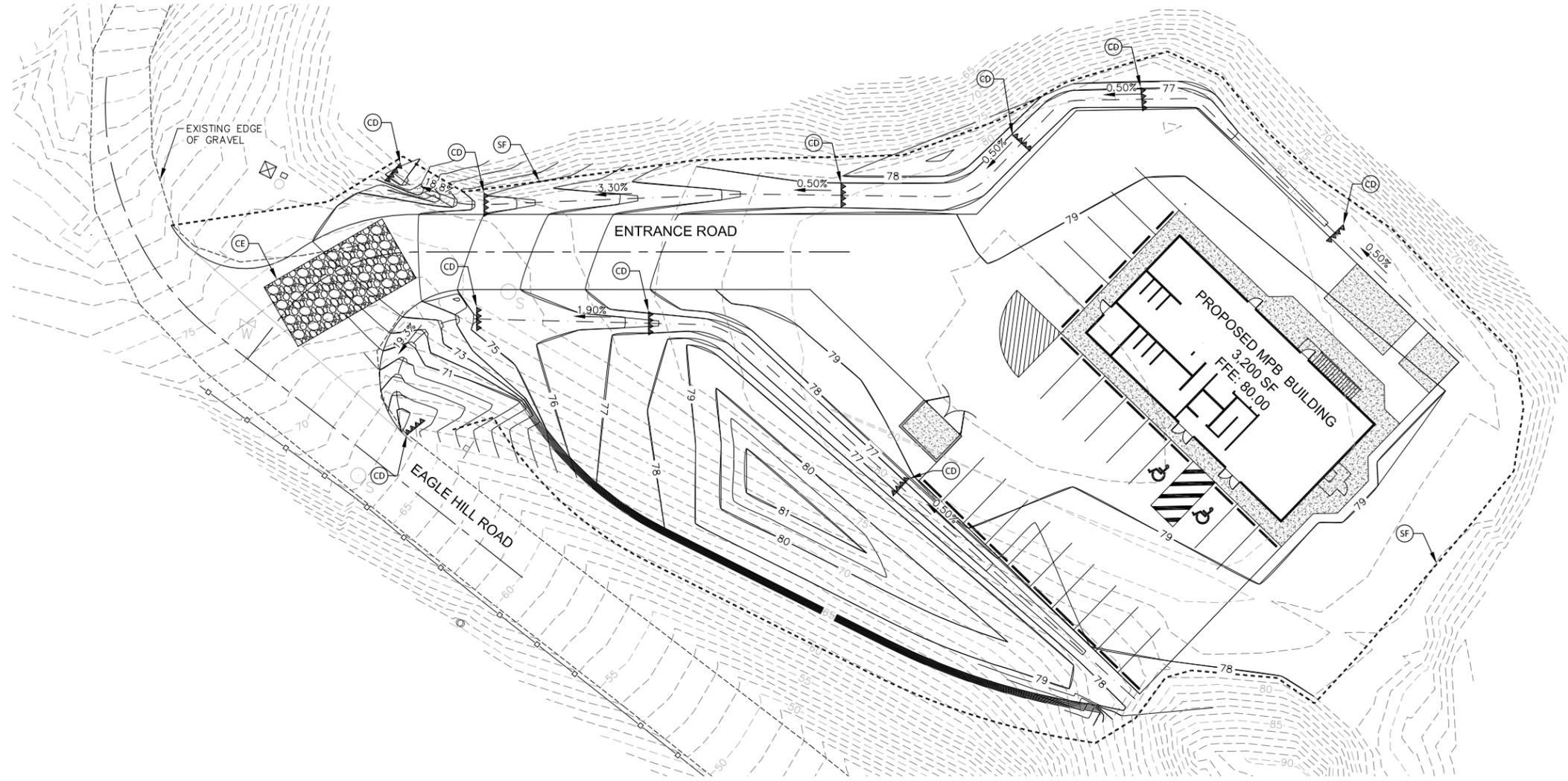
RED PLAINS PROFESSIONAL, INC  
 1499 SE TECH CENTER PLACE  
 SUITE 290  
 VANCOUVER, WA 98683  
 TEL: (360) 448-7999  
 FAX: (360) 258-0274

REVISIONS

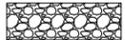
NO.	DATE	DESCRIPTION

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 SHT. C1.3

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**DEMO AND EROSION CONTROL LEGEND**

-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE
-  DITCH CHECK DAM
-  EXISTING 5 FOOT CONTOUR
-  EXISTING 1 FOOT CONTOUR
-  PROPOSED 5 FOOT CONTOUR
-  PROPOSED 1 FOOT CONTOUR

**EROSION CONTROL CALL-OUTS**

-  - CONSTRUCT SILT FENCE - 860 LF
-  - CONSTRUCT 20' x 50' CONSTRUCTION ENTRANCE/EXIT
-  - INSTALL DITCH CHECK DAM

**M.P.B. - SITE DEVELOPMENT**  
 SHOALWATER BAY INDIAN TRIBE  
 PACIFIC COUNTY, WASHINGTON  
**EROSION CONTROL PLAN**

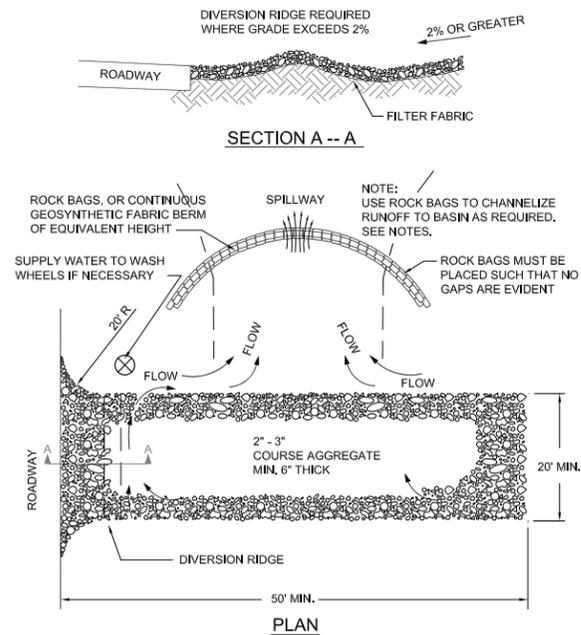
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**REVISIONS**

NO.	DATE	DESCRIPTION

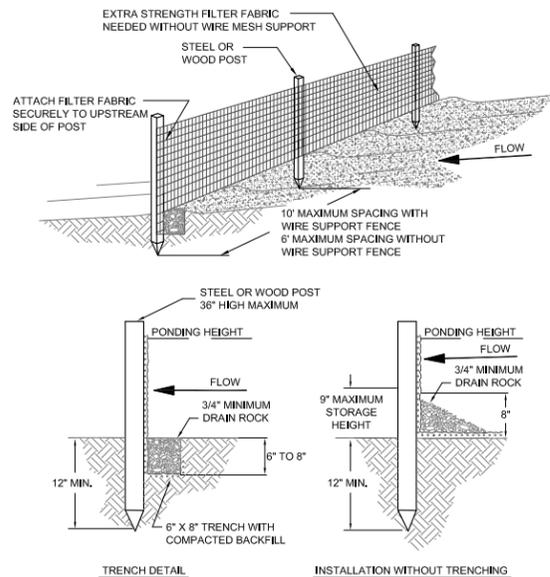
PROJ. 60046  
 SHT. C1.4



**NOTES:**

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. ROCK BAGS OR SANDBAGS SHALL BE PLACED SUCH THAT NO GAPS ARE EVIDENT.

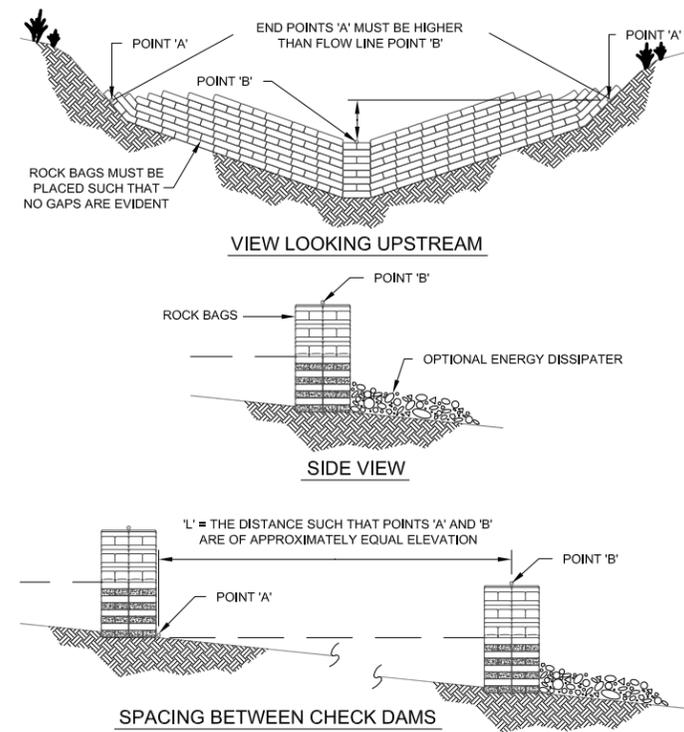
**CONSTRUCTION ENTRANCE INSTALLATION DETAIL**



**NOTES:**

1. MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
2. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
3. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9\"/>
- 4. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**SILT FENCE INSTALLATION DETAIL**



**DITCH CHECK DAM DETAIL**

**STORMWATER POLLUTION PREVENTION PLAN**

A STORMWATER POLLUTION PREVENTION PLAN (SWP3) HAS BEEN PREPARED FOR THE WORK AND AN NOTICE OF INTENT (NOI) HAS BEEN SUBMITTED BY OWNER TO THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY. CONTRACTOR SHALL IMPLEMENT THE SWP3, AND CONSTRUCT, INSPECT, AND MAINTAIN THE EROSION CONTROLS TO PREVENT RUNOFF OF SILT AND SEDIMENT FROM THE SITE. A COPY OF THE SWP3 SHALL BE KEPT AT THE SITE AT ALL TIMES AND BE MADE AVAILABLE TO INSPECTORS UPON REQUEST. INSPECTIONS REPORTS SHALL BE MAINTAINED IN THE SWP3 AND THE SWP3 SHALL BE UPDATED WHEN NECESSARY.

**POSTING OF PUBLIC NOTICE**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING PUBLIC NOTICE. THE NOTICE SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE THAT INDICATES THE FOLLOWING INFORMATION:
  - THE PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOI IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED.
  - THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON.
  - A BRIEF DESCRIPTION OF THE PROJECT.
  - THE LOCATION OF THIS SWP3 IF THE SITE IS INACTIVE OR DOES NOT HAVE AN ON-SITE LOCATION TO STORE THE PLAN.

**EROSION AND SEDIMENT CONTROLS**

1. CONSTRUCTION AND PLACEMENT OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERFORMED IN CONJUNCTION WITH THE PROGRESS OF GENERAL CONSTRUCTION. CONTRACTOR SHALL INSTALL THE EROSION CONTROL DEVICES SHOWN AND INSTALL ADDITIONAL EROSION CONTROL DEVICES AS NECESSARY TO PREVENT SILT RUNOFF FROM THE WORK AREA ONTO ADJACENT AREAS.
2. THE EROSION AND SEDIMENT CONTROLS TO BE USED FOR THIS SITE ARE:
  - TEMPORARY CONSTRUCTION ENTRANCE/EXIT – STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS WHERE CONSTRUCTION OR EMPLOYEE VEHICLES ENTER OR LEAVE THE CONSTRUCTION OR STAGING AREAS.
  - ROCK BAG FILTER BERMS – ROCK BAG FILTER BERMS SHALL BE PLACED IN SMALL OPEN CHANNELS. THE BERMS SHALL BE PLACED SO THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
  - ROCK BAG INLET BARRIER – ROCK BAG INLET BARRIERS SHALL BE PLACED AROUND ALL INLETS PROPOSED AND EXISTING THAT ARE RECEIVING RUNOFF FROM THE SITE.
  - SILT FENCES – SILT FENCES SHALL BE PLACED ALONG THE PERIMETER OF THE PROJECT WHERE STORM WATER WILL EXIT THE SITE. SILT FENCES SHALL ALSO BE UTILIZED ALONG SLOPE CONTOURS WHERE VEGETATIVE COVER IS NOT SUFFICIENTLY ESTABLISHED TO PREVENT EROSION.
  - SODDING/SITE SEEDING – SODDING AND SEEDING SHALL BE USED TO ESTABLISH FINAL VEGETATIVE COVER.
3. THE FOLLOWING ARE SOME OTHER CONTROLS THAT MAY BE USED IN THE COURSE OF THIS PROJECT.
  - COMMON VEGETATIVE PRACTICES – TEMPORARY SEEDING, MULCHING, PERMANENT SEEDING AND PLANTING, PRESERVATION OF NATURAL VEGETATION, DUST CONTROL.
  - STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES – SILT FENCE, STORM DRAIN INLET PROTECTION, OUTLET PROTECTION, BERMS FOR FUEL STORAGE AND DISPENSING AREAS
4. ADDITIONAL CONTROLS NOT LISTED ABOVE MAY ALSO BE CONSIDERED FOR USE.

**OTHER CONTROLS**

1. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD. REMOVE CRATES, CARTONS, AND FLAMMABLE WASTE MATERIALS OR TRASH FROM THE WORK AREAS AT THE END OF

2. PAVEMENT ON-SITE AND ON ADJOINING STREETS SHALL BE KEPT FREE OF ANY SEDIMENT OR MUD TRACKING FROM TRUCK TIRES OR FROM OTHER EQUIPMENT.
3. CHEMICAL TOILETS FOR THE USE OF ALL CONSTRUCTION PERSONNEL SHALL BE PROVIDED AT A LOCATION WITHIN THE LIMITS OF THE SITE. CHEMICAL TOILETS SHALL BE MAINTAINED IN A SANITARY CONDITION.
4. ANY DISPOSAL OF CONSTRUCTION WASTES, HAZARDOUS PRODUCTS, CONTAMINATED SOILS SHALL BE DISPOSED OF ACCORDING TO REQUIREMENTS OF THE CITY, COUNTY, ADEQ, AND THE U.S. ENVIRONMENTAL PROTECTION AGENCY.
5. THE WHEELS OF VEHICLES LEAVING THE CONSTRUCTION AREAS SHALL BE CLEANED OF MUD PRIOR TO LEAVING THE CONSTRUCTION OR STAGING AREAS. WHEEL WASHING SHALL BE PERFORMED IN AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. ADEQUATE CONTROLS SHALL BE MADE TO PREVENT AND/OR CONTROL ANY RELEASE OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND DETERGENTS, AND HAZARDOUS PRODUCTS.
7. ANY SPILL OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND DETERGENTS, AND HAZARDOUS PRODUCTS SHALL BE CONTAINED AND REMOVED ACCORDING TO STATE AND FEDERAL REQUIREMENTS. ANY SPILL OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND DETERGENTS, AND HAZARDOUS PRODUCTS SHALL BE REPORTED ACCORDING TO STATE AND FEDERAL REQUIREMENTS.

**MAINTENANCE**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES SHALL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS IDENTIFY EROSION CONTROLS THAT ARE NOT OPERATING EFFECTIVELY, MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT, OR AS NECESSARY TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORM WATER CONTROLS. IF MAINTENANCE PRIOR TO THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, MAINTENANCE MUST BE SCHEDULED AND ACCOMPLISHED AS SOON AS PRACTICABLE.
2. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT SHALL BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREET COULD BE WASHED INTO STORM SEWERS BY THE NEXT RAIN AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS).
3. SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
4. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DAILY).

**INSPECTIONS**

1. CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
2. THE FOLLOWING ITEMS, LOCATIONS, AND AREAS SHALL BE INSPECTED.
  - DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.
  - SEDIMENT AND EROSION CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
  - WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY

SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

- WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED TO THE EXTENT THAT SUCH INSPECTIONS ARE PRACTICABLE.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

**REPORTS**

1. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF EROSION CONTROLS SHALL BE MADE.
2. MAJOR OBSERVATIONS SHOULD INCLUDE: THE LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE; LOCATION(S) OF EROSION CONTROLS THAT NEED TO BE MAINTAINED; LOCATION(S) OF EROSION CONTROLS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; AND LOCATION(S) WHERE ADDITIONAL EROSION CONTROLS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION.
3. MODIFICATIONS MADE TO EROSION CONTROLS AS A RESULT OF INSPECTIONS SHALL BE RECORDED.
4. REPORTS SHALL IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE.
5. WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THIS PERMIT. THE OWNER OR CONTRACTOR SHALL SIGN THE REPORT.
6. ANY PERSON SIGNING THE REPORT SHALL MAKE THE FOLLOWING CERTIFICATION. I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.
7. INSPECTION REPORTS SHALL BE MAINTAINED ON SITE.

**MODIFICATIONS OR ADDITIONS TO EROSION CONTROLS**

1. BASED ON THE RESULTS OF THE INSPECTION, EROSION CONTROLS SHALL BE MODIFIED AS NECESSARY OR ADDITIONAL CONTROL SHALL BE PROVIDED TO CORRECT THE PROBLEMS IDENTIFIED. IF EXISTING EROSION CONTROLS NEED TO BE MODIFIED OR IF ADDITIONAL CONTROLS ARE NECESSARY, IMPLEMENTATION SHALL BE COMPLETED BEFORE THE NEXT ANTICIPATED STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE.

**STABILIZATION REQUIREMENTS**

1. FINE GRADING SHALL BE PERFORMED ACCORDING TO THE GRADING PLAN.
2. ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REVEGETATED ACCORDING TO THE LANDSCAPING PLAN. IF A LANDSCAPING PLAN IS NOT PROVIDED, THE DISTURBED AREAS SHALL BE SEEDED OR HYDRO-MULCHED.
2. EXCEPT WHERE THE LANDSCAPING PLAN IDENTIFIES OTHER GRASSES, GROUNDCOVER, PLANTS, OR SHRUBS TO BE PLANTED, A 4 FT WIDE STRIP OF BERMUDA GRASS SOD SHALL BE PLACED BEHIND ALL CURBS.
3. CONTRACTOR SHALL PROVIDE SUFFICIENT WATER AND FERTILIZER TO ESTABLISH THE SUFFICIENT GROWTH OF SOD AND SEEDS UNTIL FINAL STABILIZATION OF THE AREA IS ACHIEVED.

4. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
5. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
7. IN AREAS EXPERIENCING DROUGHTS WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
8. TEMPORARY SEEDING OR HYDRO-MULCHING MAY BE USED FOR TEMPORARY STABILIZATION, IF NECESSARY.

**CONSTRUCTION COMPLETION AND FINAL STABILIZATION**

1. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF FINAL STABILIZATION.
2. FINAL STABILIZATION SHALL BE COMPLETE WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES) HAVE BEEN EMPLOYED.

**ROCK BAG NOTES**

1. ROCK BAGS SHALL BE WOVEN POLYPROPYLENE BAGS WITH APPROXIMATE DIMENSIONS OF 18.5 INCHES BY 28 INCHES. BAGS SHALL BE FILLED 2/3 TO 3/4 FULL WITH 1 TO 3 INCH STONE. THE ENDS OF FILLED BAGS SHALL BE SEALED USING EITHER DRAW STRINGS OR WIRE TIES.
2. INTERWEAVE THE LOOSE ENDS OF THE BAGS SO THAT GAPS BETWEEN BAGS ARE FILLED AND ENDS OF BAGS ARE SEALED. COMPLETELY SURROUND INLET WITH A MINIMUM OF TWO ROWS OF BAGS TO MINIMUM OF 12 INCHES IN HEIGHT.
3. THE CONDITION OF THE ROCK BAGS SHALL BE EXAMINED DURING INSPECTIONS. ANY DAMAGE TO BAGS SHALL BE REPAIRED IMMEDIATELY. IF BAGS HAVE DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN OR WEAR AND TEAR, THEY SHALL BE REPLACED.
4. SEDIMENT MUST BE REMOVED WHEN IT REACHES 3 INCHES HIGH ON THE BAGS.

**M.P.B. - SITE DEVELOPMENT**  
**SHOALWATER BAY INDIAN TRIBE**  
**PACIFIC COUNTY, WASHINGTON**  
**EROSION CONTROL DETAILS**

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NO.	DATE DESCRIPTION

PROJ. 60046  
 SHT. C1.5

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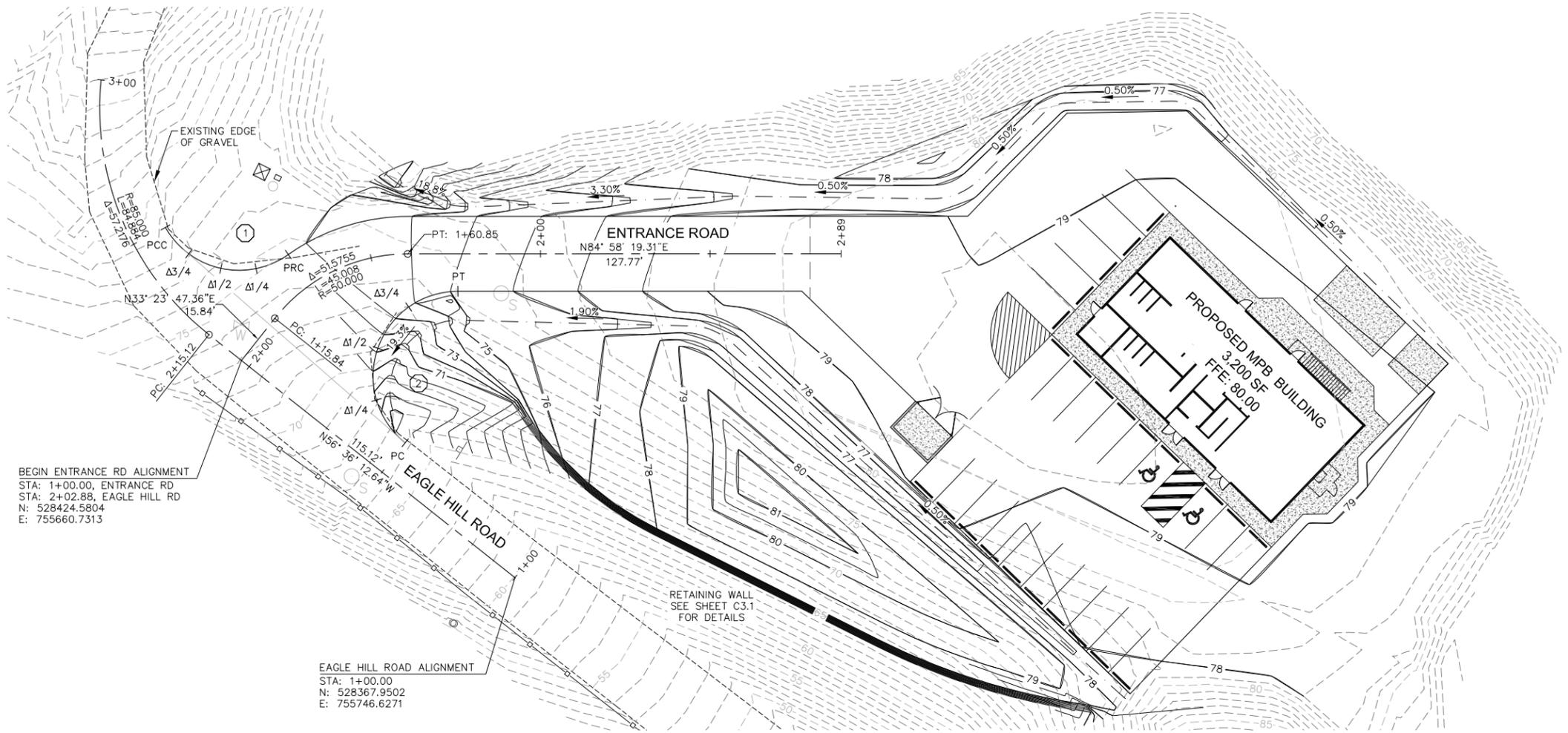
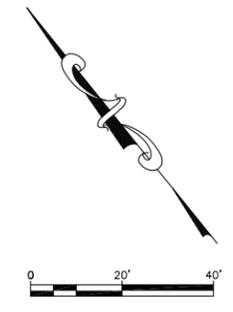
M.P.B. - SITE DEVELOPMENT  
 SHOALWATER BAY INDIAN TRIBE  
 PACIFIC COUNTY, WASHINGTON  
 OVERALL SITE PLAN



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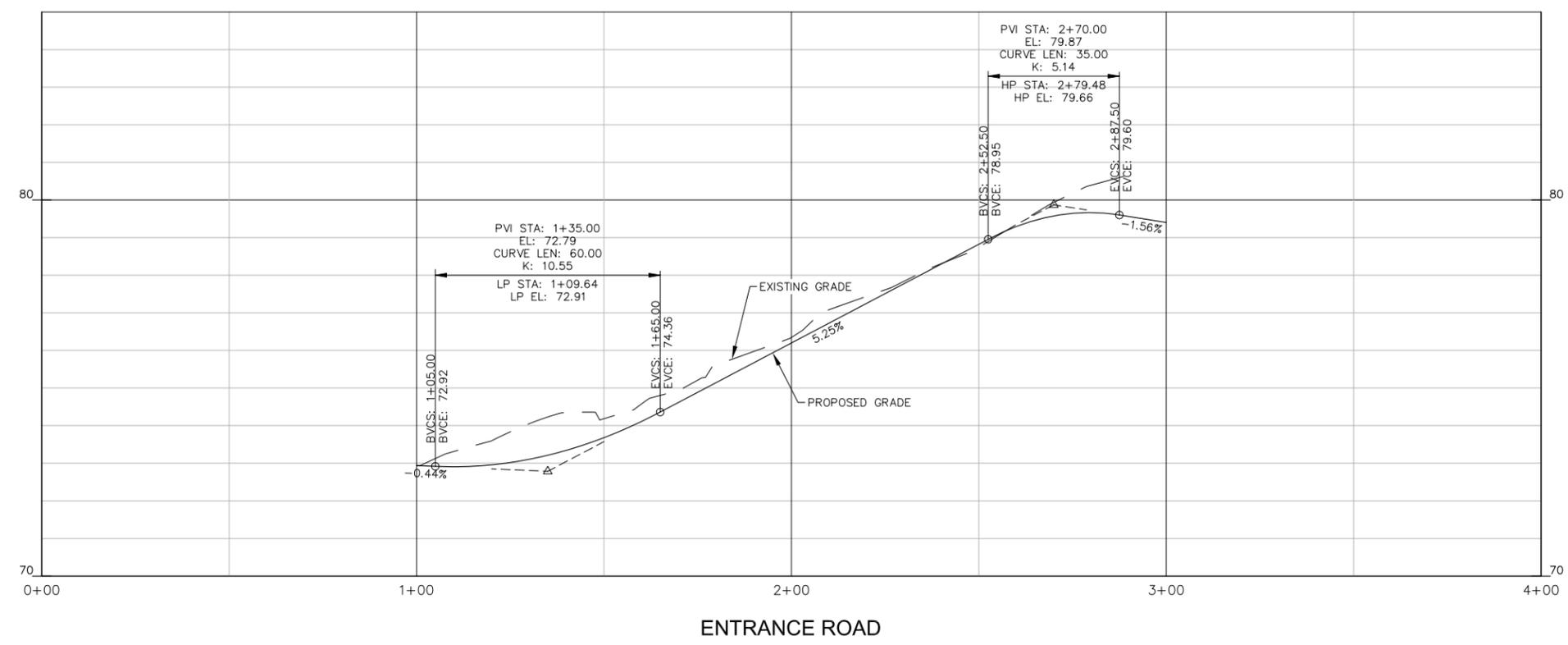
PROJ. 60046  
 SHT. C2.0



BEGIN ENTRANCE RD ALIGNMENT  
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 STA: 2+02.88, EAGLE HILL RD  
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 E: 755660.7313

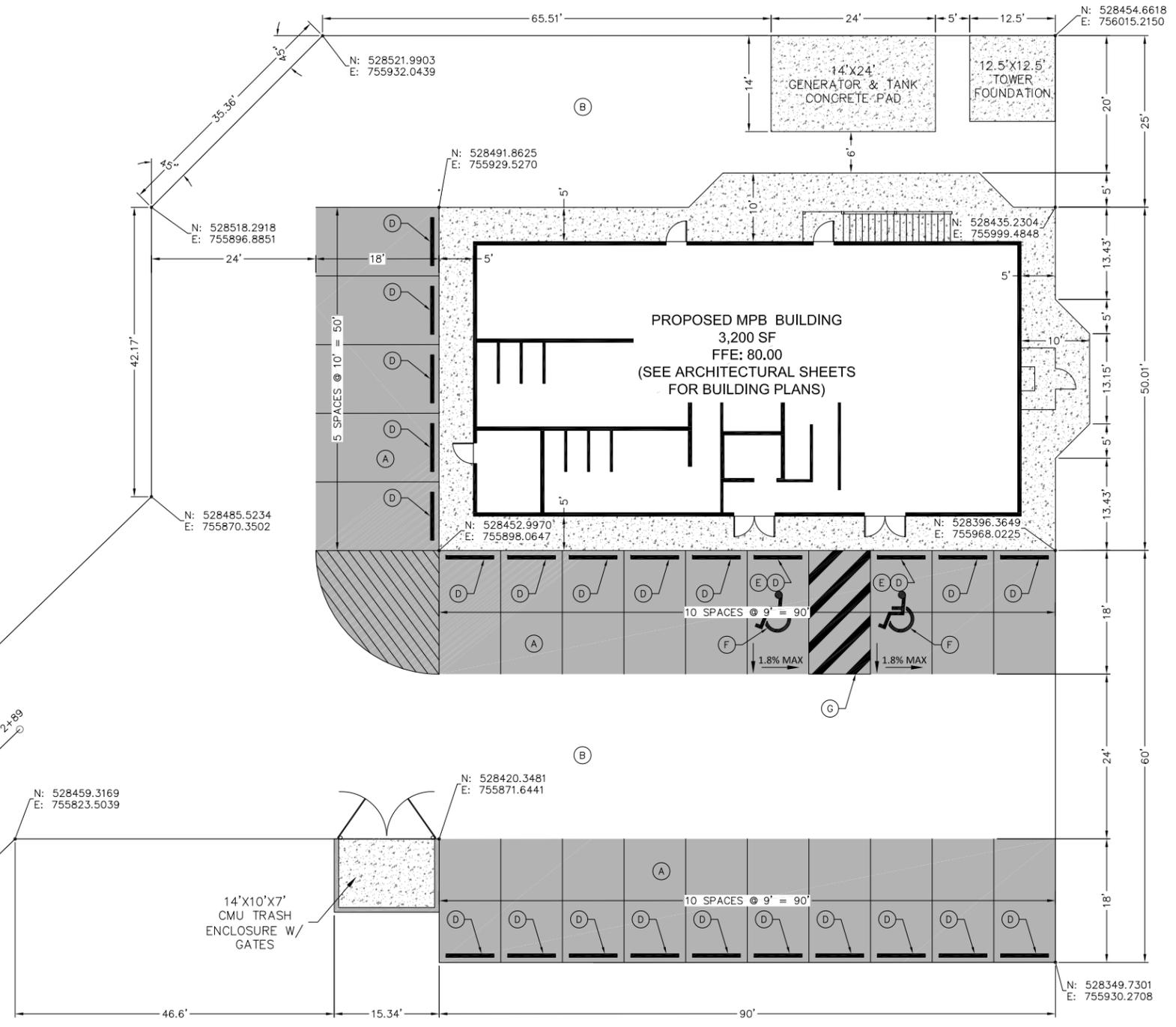
EAGLE HILL ROAD ALIGNMENT  
 STA: 1+00.00  
 N: 528367.9502  
 E: 755746.6271

- PAVEMENT RETURN NOTES:  
 ELEVATIONS ARE AT TOP OF ASPHALT
- ① PRC: 1+30.10, 11.00' LT ENTRANCE RD  
 EL: ±73.11  
 Δ1/4: 74.26 R: 25.00'  
 Δ1/2: 75.94 L: 41.82'  
 Δ3/4: 77.62 Δ 95°49'59"  
 PCC: 2+49.96, 10.58' RT EAGLE HILL RD  
 EL: 79.29
  - ② PC: 1+50.00, 11.00' RT EAGLE HILL RD  
 EL: ±66.45  
 Δ1/4: 68.60 R: 25.00'  
 Δ1/2: 71.21 L: 61.74'  
 Δ3/4: 73.72 Δ 141°26'45"  
 PT: 1+75.64, 11.00' RT ENTRANCE RD  
 EL: 75.14



FILENAME: z:\projects\60046 - shoalwater mpb site civil design\16 cadd\production\60046 - grading plan.dwg, Plotted: 4/15/2014 5:56 AM, By: Randy Hindereer, TABLOID

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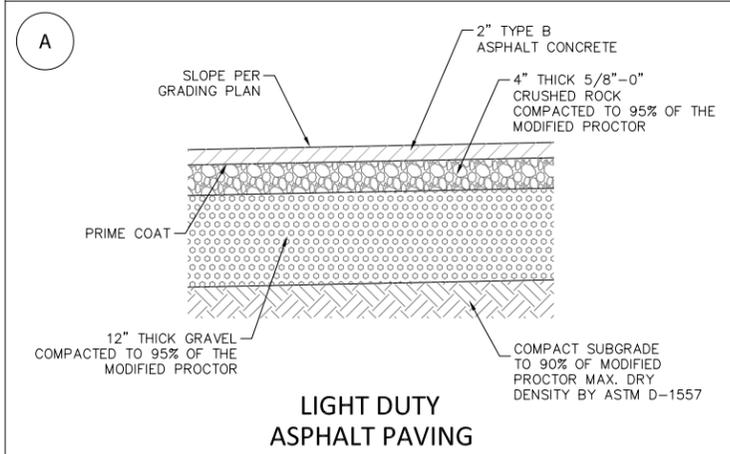
**M.P.B. - SITE DEVELOPMENT**  
**SHOALWATER BAY INDIAN TRIBE**  
**PACIFIC COUNTY, WASHINGTON**  
**SITE DIMENSIONS PLAN**



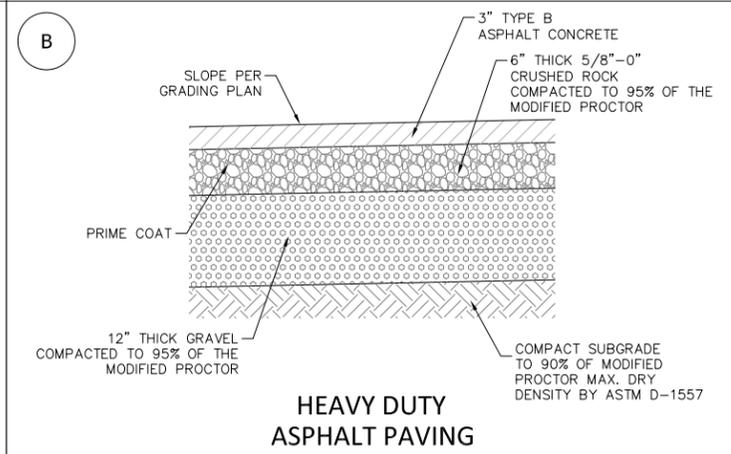
RED PLAINS PROFESSIONAL, INC  
 1499 SE TECH CENTER PLACE  
 SUITE 290  
 VANCOUVER, WA 98683  
 TEL: (360) 448-7999  
 FAX: (360) 258-0274

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NO.	DESCRIPTION

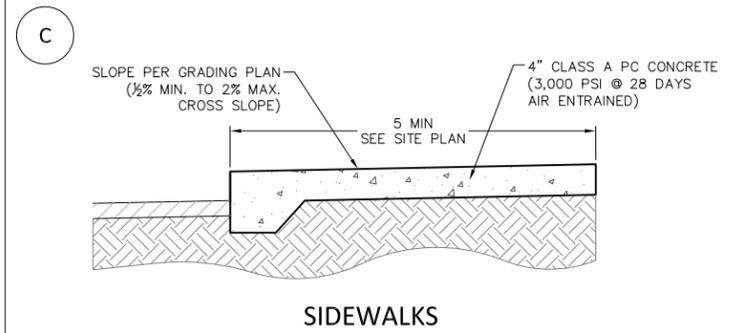
PROJ. 60046  
 SHT. C2.1



**LIGHT DUTY ASPHALT PAVING**

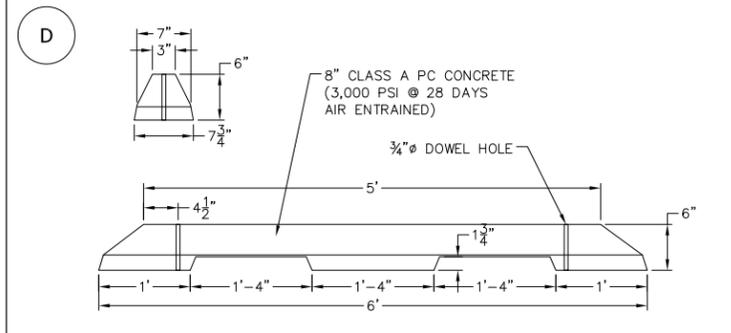


**HEAVY DUTY ASPHALT PAVING**

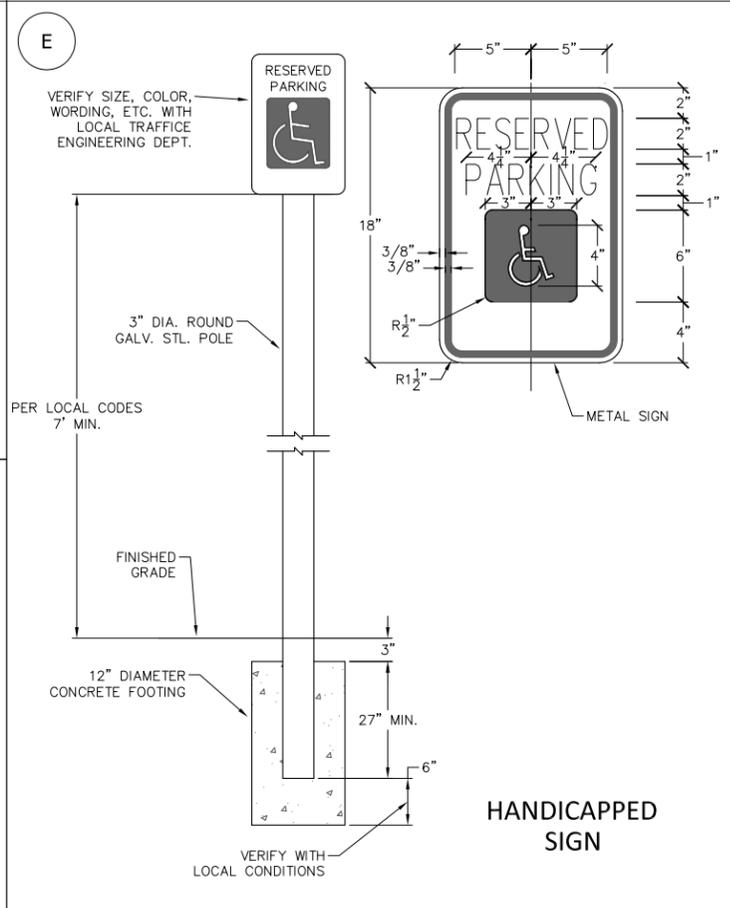


**SIDEWALKS**

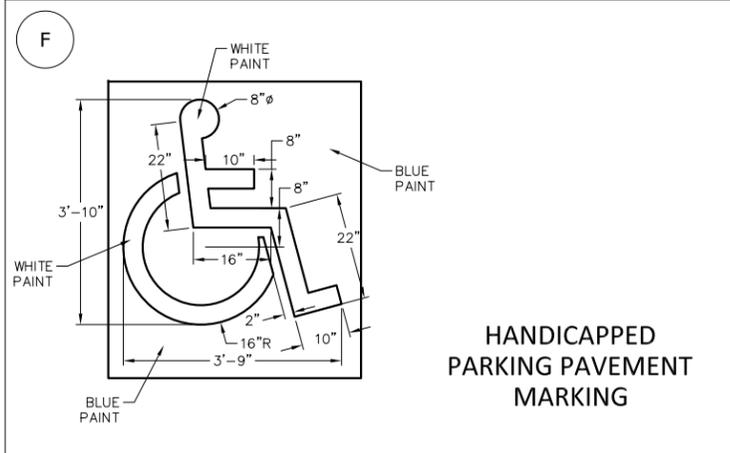
SET 1/2" EXPANSION JOINTS AT MAXIMUM 100 FT C/C SPACING USING 1/2"x4" PRE-MOLDED EXPANSION JOINT MATERIAL. SET CONTRACTION JOINTS SAW CUT TO A 1-1/2" DEPTH AT A SPACING EQUAL TO THE SIDEWALK WIDTH BUT NO GREATER THAN 7 FT. FILL ALL JOINTS TO SURFACE WITH SILICONE SEALANT. SET OR REMOVE PRE-MOLDED EXPANSION JOINT MATERIAL TO 1/2" BELOW SIDEWALK SURFACE PRIOR TO SEALING. USE 1/2"x4" PRE-MOLDED EXPANSION JOINT MATERIAL ALONG SIDEWALKS ADJOINING CURBS.



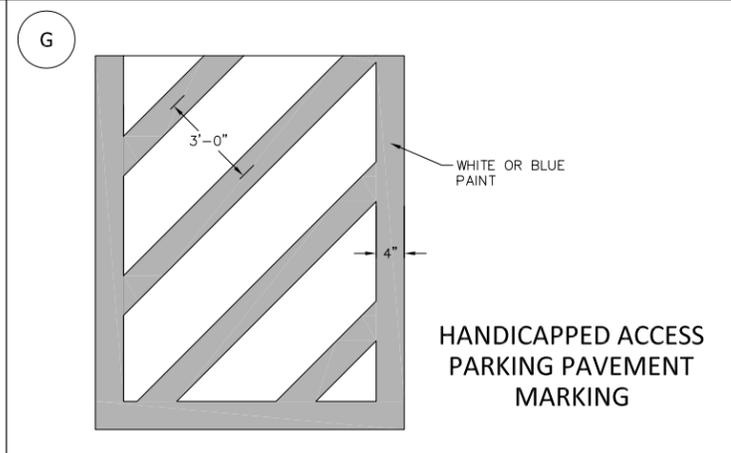
**PRECAST CONCRETE WHEEL STOP**



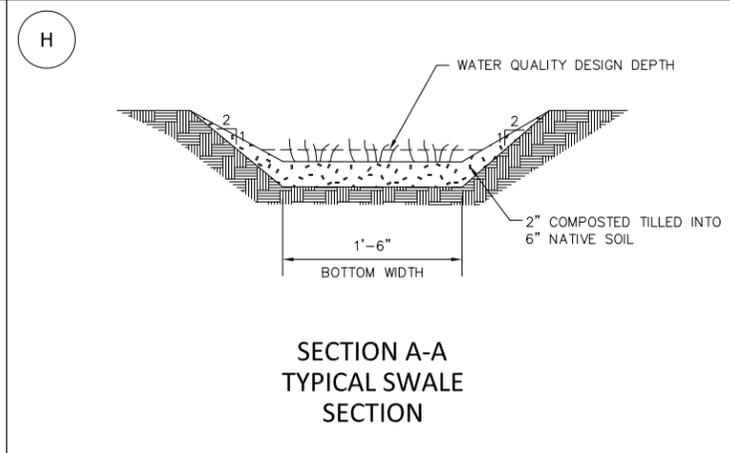
**HANDICAPPED SIGN**



**HANDICAPPED PARKING PAVEMENT MARKING**



**HANDICAPPED ACCESS PARKING PAVEMENT MARKING**



**SECTION A-A TYPICAL SWALE SECTION**

ALL PAVEMENT SECTIONS ARE BASED ON ASSUMED SOIL CONDITIONS FOR THE AREA AS NO GEOTECH REPORT HAS BEEN PROVIDED TO THE ENGINEER. PLEASE REFER TO GEOTECH REPORT FOR ALTERNATE PAVING SECTIONS UPON AVAILABILITY.

M.P.B. - SITE DEVELOPMENT  
SHOALWATER BAY INDIAN TRIBE  
PACIFIC COUNTY, WASHINGTON  
SITE PLAN DETAILS

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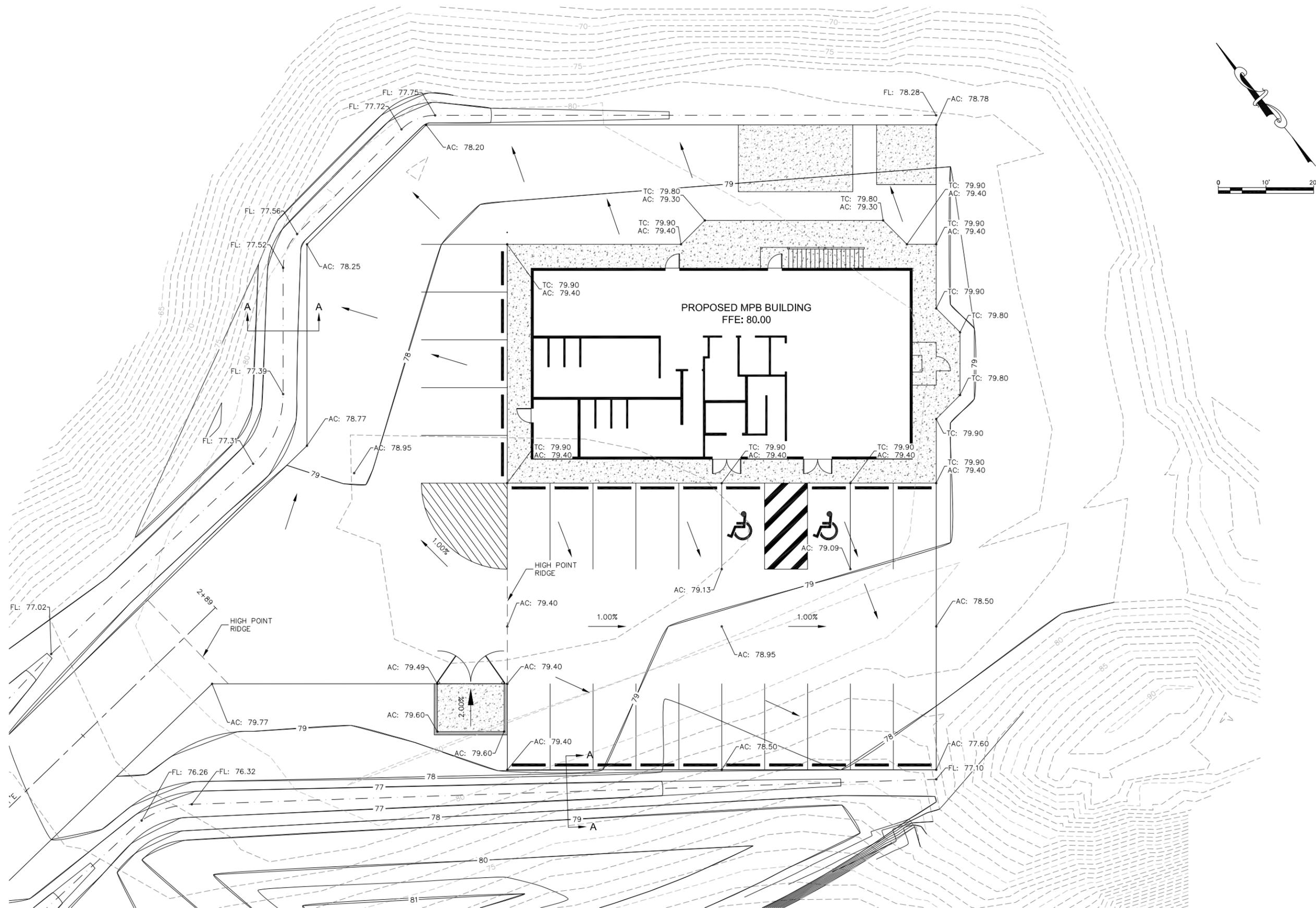
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**M.P.B. - SITE DEVELOPMENT**  
**SHOALWATER BAY INDIAN TRIBE**  
**PACIFIC COUNTY, WASHINGTON**  
**SITE GRADING PLAN**



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 SHT. C3.0



