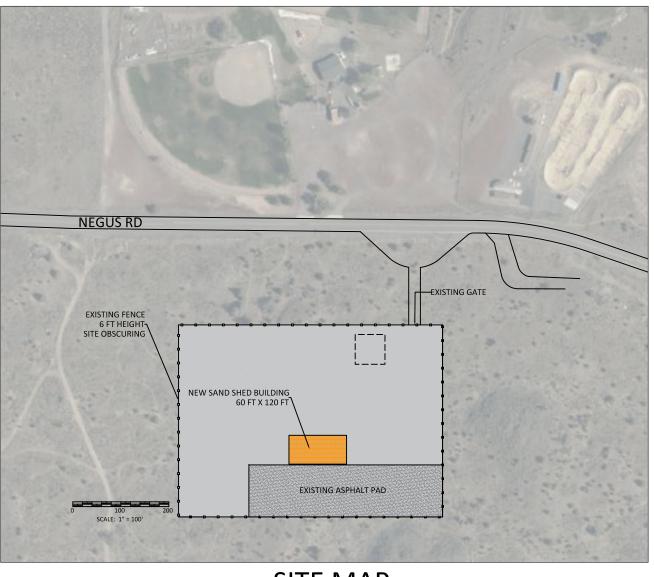
# NEGUS SAND SHED DESCHUTES COUNTY ROAD DEPT. JANUARY 2024



### SHEET INDEX

- 1. COVER SHEET
- 2. ELECTRICAL PLAN
- 3. STRUCTURAL NOTES
- 4. SPECIAL INSPECTION REQUIREMENTS
- 5. SITE PLAN

SITE MAP

(11"X17" PLAN SHEETS ARE REDUCE 50% FROM ORIGINAL SCALE)

THWEST

COYNER

MAPLE AVE

ANTLER

HELMHOLTZ

AN AVE

**WICKIUP AVE** 

O'NEIL HWY

**PROJECT** 

**LOCATION** 

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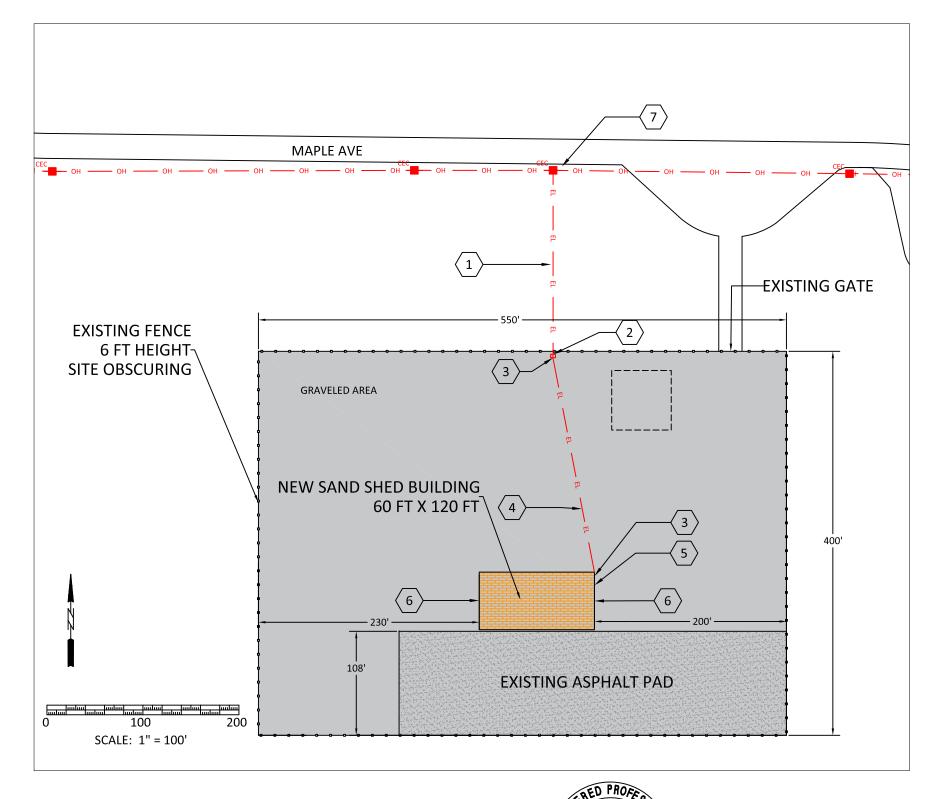
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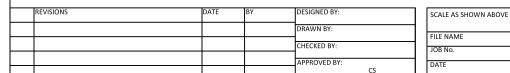
**VICINTY MAP** 



#### NOTES:

- 1. INSTALL UNDERGROUND 2-PHASE (240V) POWER SERVICE TO METER
  - \* 6" SCHEDULE 40 GRAY PVC
  - \* 36" MINIMUM BURY DEPTH
  - \* TRENCH TO BE INSPECTED BY CENTRAL ELECTRIC COOP
  - \* BACKFILL PER C.E.C. TRENCH DETAIL
  - \* ESTIMATED 200 FEET OF TRENCH REQUIRED
- INSTALL APPROVED PERMANENT POST, BOX AND POWER-METER WITH MAIN DISCONNECT
- INSTALL 110V POWER OUTLET IN AN APPROVED OUTDOOR RATED BOX \*CONSTANT POWER FROM THE METER BOX
- \*CONSTANT POWER FROM THE FUSE PANEL
- 4. INSTALL SINGLE PHASE (110V) POWER TO SAND SHED
  - \* 3" SCHEDULE 40 GRAY PVC
  - \* 36" MINIMUM BURY
  - \* TRENCH TO BE INSPECTED BE CENTRAL ELECTRIC COOP
  - \* RESTORE GRAVEL SURFACE TO EXISTING CONDITION
  - \* ESTIMATED 225' OF TRENCH REQUIRED
- 5. INSTALL OUTDOOR RATED FUSE PANEL AND 2- 20AMP FUSES (LIGHT AND OUTLET)
- 6. INSTALL EXTERIOR LED LIGHT DIRECTLY CENTERED OVER THE OPENING OF THE STRUCTURE
  - \* 7,500 LUMEN
  - \* LIGHT MUST BE CONTROLLED WITH EXTERIOR BOX WITH WEATHERPROOF COVER AND SWITCH
- 7. PROPOSED CONNECTION TO CEC POWER POLE #112484

(11"X17" PLAN SHEETS ARE REDUCE 50% FROM ORIGINAL SCALE)





RENEWS: 6-30-2026



PROJECT NAME: **NEGUS SAND SHED** 

SHEET TITLE:

**ELECTRICAL PLAN** 

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## **GENERAL STRUCTURAL NOTES**

#### A. GENERAL NOTES:

- ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE (ICC IBC-2021) AS AMENDED BY THE STATE OF OREGON, 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC).
- THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER DESIGN CONSULTANT'S DRAWINGS (ARCHITECTURAL, MECHANICAL ETC.). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE DRAWINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
- THE GENERAL STRUCTURAL NOTES ARE INTENDED FOR USE IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE PRE-FABRICATED STRUCTURAL DRAWINGS SHALL SUPERCEDE THE PROJECT SPECIFICATIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

#### **CONSTRUCTION SEQUENCE AND METHODS:**

- THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE STRUCTURE TO ACT AS A WHOLE ONCE CONSTRUCTION IS COMPLETE. IT THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY (I.E. TEMPORARY BRACING IF REQUIRED) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTION METHODS AND SEQUENCES.
- THE CONTRACTOR SHALL TAKE INTO ACCOUNT COLD WEATHER CONSTRUCTION AND THE EFFECTS OF THERMAL MOVEMENT DURING THE CONSTRUCTION SCHEDULE.
- NON-CANTILEVERED OR RESTRAINED RETAINING SUPPORTS UNLESS ADEQUATE ENGINEERED BRACING HAS THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY

DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS

#### **SUBMITTALS:**

- SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. SUCH ITEMS INCLUDE.
- CONCRETE MIX DESIGN, CONCRETE AND MASONRY REINFORCEMENT EMBEDDED STEEL ITEMS AND 8.1. STRUCTURAL STEEL
- SHOP DRAWINGS OR CONTRACTOR ENGINEERED DETAILS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF OREGON IF IT DIFFERS FROM THE DESIGN OF THE STRUCTURAL DRAWINGS. ANY REVISION FROM THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND IS SUBJECT TO THE REVIEW AND ACCEPTANCE BY THE ENGINEER
- CALCULATIONS DESIGN DRAWINGS AND SHOP DRAWINGS FOR THE DESIGN FABRICATION AND CONSTRUCTION OF BIDDER DESIGN ITEMS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- SEISMIC BRACING AND RESTRAINT TO THE STRUCTURE OF ANY MEP EQUIPMENT, MACHINERY AND ASSOCIATED PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONNECTIONS NOT IN COMPLIANCE WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION) OR THE MEP DESIGN DRAWINGS, SHALL BEAR THE SEAL OF REGISTERED ENGINEER IN THE STATE OF OREGON AND SHALL BE SUBMITTED ALONG WITH CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION

#### **DESIGN CRITERIA:**

- 11. CODE: 2021 INTERNATIONAL BUILDING CODE AS AMENDED BY THE STATE OF OREGON (2022 OSSC).
- LOADS AND DESIGN CRITERIA: THE FOLLOW LIVE LOADS AN CRITERIA WERE USED IN ADDITIONS TO THE DEAD LOAD OF THE STRUCTURE.

12.A. LIVE LOADS:

12.A.1. ROOF **GROUND SNOW LOAD** 36 PSF 12.A.1.a. ROOF SNOW LOAD 26 PSF 12.A.1.b. SNOW EXPOSURE FACTOR 12 A 1 c Ce=1.0 SNOW IMPORTANCE FACTOR Is = 1.0 12.A.1.d. 12.A.1.e. THERMAL FACTOR

12.B. SOIL CRITERIA: ASSUMED ALLOW SOIL BEARING VALUES 1500 PSF (WITH \(\frac{1}{3}\) INCREASE FOR SHORT TERM LATERAL LOADS) 12.B.1.

#### **LATERAL CRITERA:**

110 MPH, EXPOSURE C 13. WIND IMPORTANCE FACTOR (WIND) 13.A.  $|_{W} = 1.0$ 

SEISMIC DESIGN CATEGORY "D" 14 SEISMIC

14.A. IMPORTANCE FACTOR (SEISMIC)  $|_{\rm F} = 1.0$ 

Sds: BY OTHERS

Sd1: BY OTHERS BASE SHEAR BY OTHERS

#### **CONCRETE AND REINFORCING STEEL:**

- 15. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-08 AND THE 2021 INTERNATIONAL BUILDING CODE AS AMENDED BY THE STATE OF OREGON (2022 OSSC)
- 16. THE MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS
- .... FOR ALL USES UNLESS NOTED OTHERWISE f'c = 3000 PSI .... (note: DESIGN BASED ON f'c = 2500 PSI, SPECIAL INSPECTION NOT REQUIRED)
- CONCRETE MIX DESIGNS, ALONG WITH TEST DATA AS REQUIRED, SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE AMOUNT OF TIME PRIOR TO CONCRETE POURS
- SPECIFIED CONCRETE STRENGTHS SHALL BE VERIFIED BE STANDARD 28-DAY CYLINDER TESTS PER ASTM C39.
- A 20% MAXIMUM OF THE CEMENT MAY BE SUBSTITUTED WITH FLYASH CONFORMING TO ASTM C618, TYPE F OR C. HIGHER PERCENTAGES OF FLYASH MAY BE UTILIZED WITH ACCEPTANCE AND APPROVAL BY THE STRUCTURAL ENGINEER. ANY CONCRETE MIX UTILIZING FLYASH SHALL BE VERIFIED WITH TEST DATA.
- ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE MIX AT THE JOBSITE, WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE UTILIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 21. IF CONCRETE IS TO BE POURED AGAINST AN EXISTING CONCRETE SURFACE, THE EXISTING SURFACE SHALL BE CLEANED AND ROUGHENED TO A MIN  $\frac{1}{4}$ " AMPLITUDE.
- SLEEVES, OPENINGS, CONDUITS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING.
- 23. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE THIRD THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER. PROVIDE 3" CHAMFERS ON ALL EXPOSED CONCRETE EDGES UNLESS NOTED OTHERWISE.

#### SHORING AND RESHORING:

- 24. SHORING AND RESHORING SHALL CONFORM TO ACI 347R-88.
- SHORING AND SUPPORTING FORM WORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT LEAST 70% OF DESIGN STRENGTH, AS DETERMINED BY FIELD CURED CYLINDERS.
- IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN RECOMMENDED BY ACI 347R-88, SECTION 3.7.2.3.
- 27. FORM WORK SHALL BE LEFT IN PLACE FOR A MINIMUM OF 10 DAYS.

#### **REINFORCING STEEL:**

- REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO THE "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- REINFORCING STEEL REQUIRING WELDING OR PLACED WITHIN A SPECIFIED BOUNDARY ELEMENT OR MOMENT FRAME ELEMENT SHALL CONFORM TO WELDABLE ASTM A706.
- ALL LAP SPLICES OF REINFORCEMENT SHALL CONFORM TO CLASS B LAPS AS SHOWN ON THE LAP SPLICE SCHEDULE TABLE UNLESS NOTED OTHERWISE
- ANY MECHANICAL BAR SPLICES SHOWN SHALL BE MADE WITH DAYTON BAR-GRIP COUPLERS OR WITH AN APPROVED PRODUCT SUBMITTED WITH AN ICBO REPORT.
- UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL HAVE THE MINIMUM COVER OR PROTECTION FOR THE FOLLOWING USES AS NOTED BELOW:

BEAMS, JOISTS, AND COLUMNS  $1\frac{1}{2}$ " (TO TIES OR STIRRUPS) SLABS WALLS

INTERIOR FACES **EXPOSED TO EARTH OR WEATHER** 

 $1\frac{1}{2}$ " (#5 BARS AND SMALLER) 2" (#6 BARS AND LARGER)

#### **ADDITIONAL CONCRETE ITEMS:**

**FOOTINGS** 

- HEADED SHEAR STUDS AND DEFORMED BAR ANCHORS SHALL BE AN APPROVED NELSON PRODUCT OR
- WEDGE ANCHORS OR EXPANSION BOLTS SHALL BE HILTI KWIK BOLT-II OR AN APPROVED EQUAL SUBMITTED WITH ICBO REPORTS TO THE ENGINEER FOR REVIEW.
- EPOXY ANCHORS OR DOWELS SHALL BE INSTALLED WITH HILTI HY150 EPOXY IN CONCRETE AND HILTI HY20 EPOXY IN UNREINFORCED BRICK. AN APPROVED EQUAL WITH ICC REPORTS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL
- UNLESS NOTED OTHERWISE, PERMANENTLY EXPOSED EMBEDDED PLATE AND ANGLE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION, WELDS OR LOADS SHALL NOT BE PLACED ON THE EMBEDDED ASSEMBLIES FOR A MINIMUM OF 7 DAYS AFTER CASTING IN CONCRETE

## LAP SPLICE SCHEDULE

	f'c = 3000 psi						
BAR SIZE	TOP	BARS	OTHER BARS				
	CASE 1	CASE 2	CASE 1	CASE 2			
#3	28	42	22	32			
#4	37	56	29	43			
#5	47	70	36	54			
#6	56	84	43	64			
#7	81	122	63	94			
#8	93	139	72	107			
#9	105	157	81	121			
#10	118	177	91	136			
#11	131	196	101	151			

LAP LENGTHS ARE IN INCHES AND ARE BASED ON GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE

CASE 1 AND 2 ARE DEFINED AS FOLLOWS

BEAMS OR COLUMNS CASE 1: COVER AT LEAST 1.0 db

CASE 2: COVER LESS THAN 1.0 db CASE 1: COVER AT LEAST 1.0 db OTHERS CASE 2: COVER LESS THAN 1.0 db

(11"X17" PLAN SHEETS ARE REDUCE 50% FROM ORIGINAL SCALE)

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ENGINEER



PROJECT NAME

**NEGUS SAND SHED** 

SHEET TITLE

STRUCTURAL NOTES

PROJ NO. W66153 3 OF 5

#### SPECIAL INSPECTIONS:

- 1. THE ITEMS NOTED SHALL BE INSPECTED IN ACCORDANCE WITH 2022 OSSC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTION FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND RESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER 2022 OSSC SECTION 1704.2.5.2.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION PER 2022 OSSC 1702, PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERCALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, SCHEDULING AND TIMELY NOTIFICATION OF THE DESIGNATED SPECIAL INSPECTOR PRIOR TO ALL WORK REQUIRING SPECIAL INSPECTION.

TABLE 1							
	REQUIRED	GEOTECHNIC	AL SPECIAL IN	SPECTIONS			
		INSPE	CTION				
SYSTEM or MATERIAL	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQU	JENCY	REMARKS		
			CONTINUOUS	PERIODIC			
	SOILS						
GEOTECHNICAL INVESTIGATIONS	1803				GEOTECHNICAL INVESTIGATION SHALL INCLUDE ITEMS OF SPECIAL INSPECTION AND TESTING AS NOTED IN TABLE 5 OF THE GUIDELINES		
VERIFY FOOTING BEARING CAPACITY AND SUBGRADE PREPARATION FOR				Х			
FILL MATERIAL VERIFICATION	TABLE 1705.6		Х		BY THE FOUNDATION DESIGN ENGINEER		
FILL PLACEMENT & COMPACTIONS			Х				
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	TABLE 1705.6			х	BY THE FOUNDATION DESIGN ENGINEER		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	TABLE 1705.6			х			
PERFORM CLASSIFICATION OF COMPACTED FILL MATERIALS	TABLE 1705.6 1803.5.1			х			
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	TABLE 1705.6		Х		BY THE FOUNDATION DESIGN ENGINEER		
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	TABLE 1705.6			Х			



(11"X17" PLAN SHEETS ARE REDUCE 50% FROM ORIGINAL SCALE)

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#### TABLE 2

	REQUIRED S	STRUCTURAL SPEC	AL INSPECTIC	NS	
	INSPECTION				
SYSTEM or MATERIAL	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		REMARKS
			CONTINUOUS	PERIODIC	
		CONCRETE			
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	1909	ACI 318: 3.86, 8.13, 21.1.8		Х	
REINFORCING STEEL AND PRESTRESSING TENDON PLACEMENT	1705.3 1910.4 1901.3.2	ACI 318: 3.5.2 AWS D1.4		Х	TOLERANCES AND REINFORCING PLACEMENT PER ACI 7.5; SPACING LIMITS FOR REINFORCING ACI 7.6
WELDING REINFORCING STEEL	TABLE 1705.3 1705.2.2.1 1903.1	ACI 318: 3.5.2 AWS D1.4	х		REFER TO STEEL FOR WELDING REQUIREMENTS TABLE 1705.2, ITEM 6b
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAT ASTM A 706	TABLE 1705.2	AWS D1.4 ACI 318: SECTION 3.5.2	х		
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENE	TABLE 1705.2	AWS D1.4 ACI 318 SECTION 3.5.2	х		
3) SHEAR REINFORCEMENT	TABLE 1705.2	AWS D1.4 ACI 318: SECTION 3.5.2		Х	
4) OTHER REINFORCING STEEL	TABLE 1705.2	AWS D1.4 ACI 318: SECTION 3.5.2		Х	
PLACEMENT OF BOLTS INSTALLED IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE	TABLE 1705.3 1908.5	ACI 318: 1.3.2.C ACI 3.18: 8.1.3	х		ALL BOLTS VISUALLY INSPECTED

ACI 318: CHAP 4

ACI 318: 5.2--5.4

ACI 318: 1.3.2.D

ACI 318: 5.9-5.10

STRENGTH DESIGN IS USED

VERIFY USE OF REQUIRED MIX DESIGN(S)

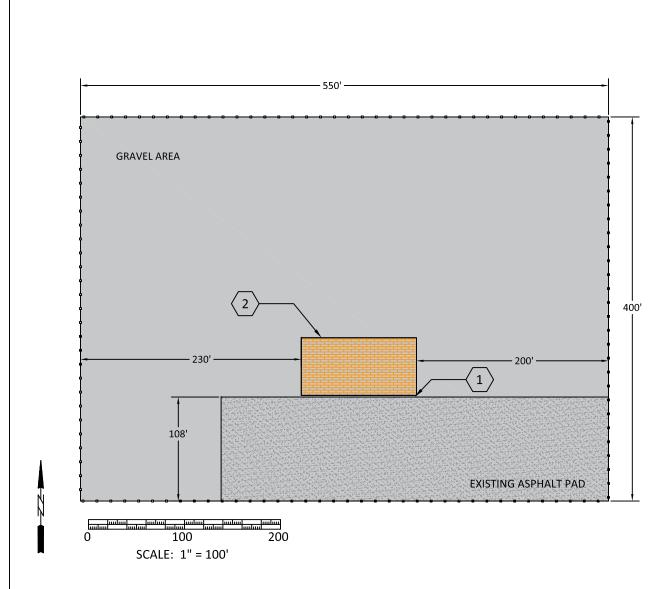
CONCRETE PLACEMENT

1909.1 TABLE 1705.3 1904 1905.2

1910.2 1910.3 1901.4.1 TABLE

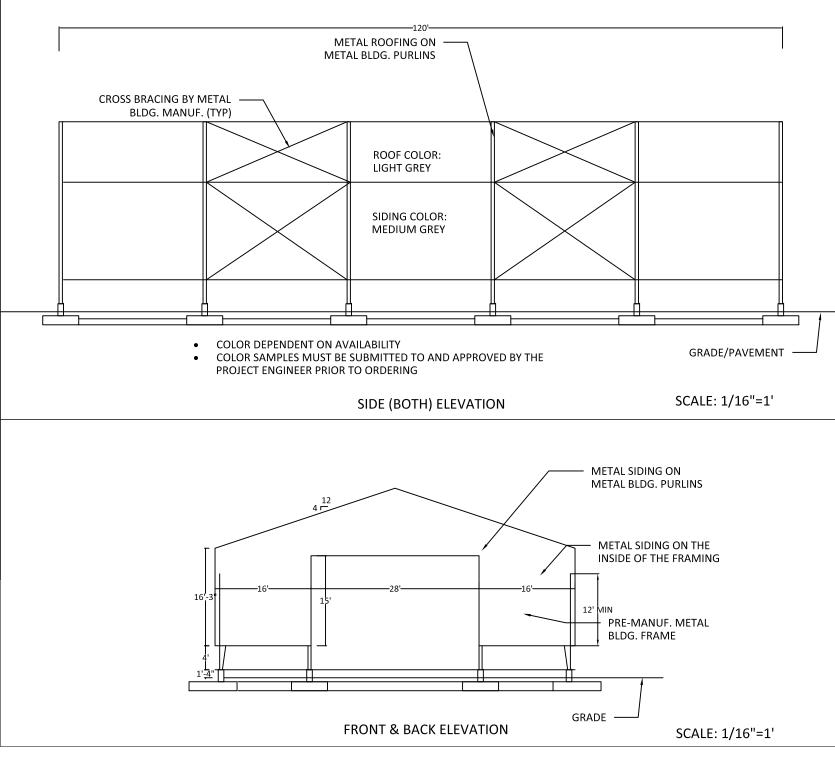
1705.3

1905.9-10



#### NOTES:

- 1. N-S BUILDING OFFSET WILL BE DETERMINED BY THE FOUNDATION DIMENSION. FOUNDATION FOOTINGS SHALL SET AS CLOSE TO THE PAD AS POSSIBLE WITHOUT UNDERMINING THE ASPHALT PAD.
- 2. PROPOSED NEW SAND SHED BUILDING 60'X120' (7,200 SF)
- 3. FOUNDATION AND BUILDING SUPPORT LAYOUT SHOWN FOR REFERENCE ONLY.





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NEGUS SAND SHED

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SITE PLAN

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