# 4121 80th Ave SE Residence



# S230607-1XR

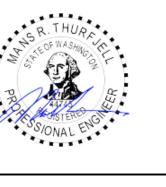
# PROJECT INFORMATION

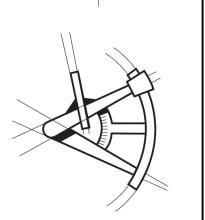
CLIENT CURRY TRACI+MICHAEL 4121 80th Ave SE Mercer Island, WA 98040

> PROJECT ADDRESS 4121 80th Ave SE Mercer Island, WA 98040

STRUCTURAL ENGINEER
L120 ENGINEERING & DESIGN 13150 91ST PL NE KIRKLAND, WA 98034

CONTACT: MANS THURFJELL, PE PHONE: (425)-636-3313 EMAIL: MTHURFJELL@L120ENGINEERING.COM





**REVISIONS** DESCRIPTION DATE BY

CODES

ENGINEERED PER: 2018 (IRC) INTERNATIONAL RESIDENTIAL CODE

SHEET INDEX

STRUCTURAL GENERAL NOTES....S-1

SITE & FOUNDATION PLAN....S-2 FOUNDATION DETAILS....SD-1.1

COVER SHEET....S-0

2018 (IBC) INTERNATIONAL BUILDING CODE

4121 80th Ave SE Mercer Island, WA 98040

PROJECT NAME

PROJECT NUMBER S230607-1XR

DRAWN BY - PAM

CHECKED BY - MRT

SHEET DATE - 07/03/2023

SCALE

# GENERAL STRUCTURAL NOTES

#### **DESIGN CRITERIA**

CODE: 2018 IBC/IRC & AMENDMENTS AS ADOPTED BY THE REVIEWING AGENCY/COUNTY

.....25 PSF SNOW (GROUND)

#### **FLOORS**

RESIDENTIAL.. ....40 PSF BALCONY/DECK..... ...60 PSF

#### GENERAL CONDITIONS

- 1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- 3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- 4. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS".
- 5. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE
- SAME AS FOR SIMILAR WORK. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
- 9. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.
- 10. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 11. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
- 12. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
- 13. DISCREPANCIES FOUND BETWEEN STRUCTURAL DRAWINGS AND OTHER DOCUMENTS ARE TO BE NOTED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 14. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.
- 15. STRUCTURAL STABILITY OF ALL NEW AND EXISTING STRUCTURES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES EXCAVATIONS, COLUMNS, EQUIPMENT LOADS, MATERIAL LOADS, AND OTHERS. OBSERVATIONS BY THE ENGINEER-OF-RECORD DO NOT INCLUDE INSPECTIONS OF TEMPORARY LOADING AND STABILITY DURING CONSTRUCTION.

## CONCRETE ANCHORS

1. ALL SPECIFIED CONCRETE ANCHORS SHALL BE SIMPSON STRONG TIE, HILTI, OR EQUIVALENT. SPECIAL INSPECTIONS REQUIRED.

# STRUCTURAL AND MISC. STEEL

- 1. REFERENCE STANDARDS: DESIGN, FABRICATION AND ERECTION ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- 2. MATERIALS:
- BOLTS ASTM A307, UNLESS OTHERWISE NOTED
  - WF BEAMS ASTM A572-50 (Fy = 50,000 PSI)
  - HSS ROUND COLUMNS ASTM A500 Gr. B (Fy = 42,000 PSI) HSS RECTANGULAR COLUMNS - ASTM A500 Gr. B (Fy = 46,000 PSI)
- ALL OTHER STEEL ASTM A36 (Fy = 36,000 PSI)

### STRUCTURAL STEEL WELDING

COST TO OWNER.

1. CONFORM TO THE AWS CODES D1.1 AND D1.3., AND USE ONLY CERTIFIED WELDERS. WELDS NOT SPECIFIED ARE TO BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES.

#### 1. ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW; CONTRACTOR WILL BEAR BURDEN FOR ADDITIONAL PAYMENT AT NO ADDITIONAL

ALTERNATES:

JOBSITE SAFETY: THE ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER AND/OR ARCHITECT SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS,

SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY

#### **HELICAL PILES**

- HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC).
- HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED BY IDEAL MANUFACTURING, INC., AND SHALL BE IN ACCORDANCE WITH ESR-3750.
- 3. ALL MATERIAL PROPERTIES OF HELICAL PILE COMPONENTS SHALL BE IN ACCORDANCE WITH ESR-3750.
- CORROSION PROTECTION OF ALL PILE COMPONENTS SHALL COMPLY WITH THE ICC-ES ACCEPTANCE CRITERIA FOR CORROSION PROTECTION OF STEEL FOUNDATION SYSTEMS USING POLYMER (EAA) COATINGS (AC228).
- 5. ALL HELICAL FOUNDATION COMPONENTS SHALL BE GALVANICALLY ISOLATED FROM CONCRETE REINFORCING STEEL, BUILDING STRUCTURAL STEEL, OR ANY OTHER METAL BUILDING COMPONENTS PER AC358 SECTION 3.9.
- 6. THE SHAFT SHALL BE DESIGNED AND FABRICATED TO SUPPORT THE SPECIFIED DESIGN LOADS.
- 7. ONLY MANUFACTURER-APPROVED CONNECTORS, ADAPTORS, AND ACCESSORIES MAY BE USED.
- 8. HELICAL PILES SHALL BE INSTALLED VERTICALLY INTO THE GROUND WITH AN ALLOWABLE ANGLE OF INCLINATION OF +/- 1 DEGREE FROM VERTICAL PER SECTION 4.2.1 OF ESR-3750.
- 9. MONITOR AND RECORD DEPTH OF PILE PENETRATION. PROVIDE TORQUE MONITORING DEVICE AS PART OF THE INSTALLING UNIT. MONITOR AND RECORD TORQUE APPLIED DURING THE INSTALLATION OF EACH PILE AT SPECIFIC DEPTHS.
- 10. HELICAL PILES SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE MINIMUM REQUIRED LOAD CAPACITIES INDICATED ON PLAN INCLUDING A FACTOR OF SAFETY NO LESS THAN TWO (2). THE MAXIMUM INSTALLATION TORQUE SHALL NOT EXCEED THE ALLOWABLE TORSIONAL CAPACITY OF ANY INDIVIDUAL COMPONENT OF THE PILE ASSEMBLY.
- 11. ALL BRACKETS AND HELICAL PILE ASSEMBLY COMPONENTS SHALL HAVE ADEQUATE CAPACITY TO ACHIEVE THE MINIMUM REQUIRED BEARING CAPACITY INCLUDING A FACTOR OF SAFETY NO LESS THAN TWO (2).
- 12. REPAIR BRACKETS MUST BE CONCENTRICALLY LOADED AND THE BRACKET PLATE MUST BE FULLY ENGAGED WITH BOTTOM OF CONCRETE FOUNDATION.
- 13. ALL HELICAL PILE ASSEMBLY COMPONENTS MUST HAVE ADEQUATE STRENGTH TO DEVELOP THE TORQUE REQUIRED FOR INSTALLATION AND ALL INDUCED STRESSES.
- 14. THE PILE QUANTITY, LAYOUT, AND SPACING INDICATED ON PLAN SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLATION.
- 15. CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH 2015 AND 2018 IBC SECTION 1705.9 MUST BE PROVIDED FOR THE INSTALLATION OF THE HELICAL PILES AND FOUNDATION BRACKETS. ITEMS TO BE RECORDED AND CONFIRMED BY THE SPECIAL INSPECTOR MUST INCLUDE THE FOLLOWING:
  - A. PRODUCT MANUFACTURER
  - B. MANUFACTURER'S CERTIFICATION OF THE INSTALLERS
  - C. PRODUCT TYPE AND CONFIGURATIONS FOR HELICAL PILE LEAD SHAFT SECTIONS, EXTENSIONS, BRACKETS, BOLTS, THREADED RODS, NUTS, WASHERS, AND TORQUES AS SPECIFIED IN THIS REPORT AND THE CONSTRUCTION DOCUMENTS
  - D. INSTALLATION PROCEDURES FOR THE HELICAL PILE SHAFT, INSTALLATION EQUIPMENT USED, AND THE IDEAL FOUNDATION SYSTEMS INSTALLATION INSTRUCTIONS
  - E. ANTICIPATED AND ACTUAL PILING DEPTH
  - F. REQUIRED TARGET INSTALLATION TORQUE OF PILES AND MINIMUM DEPTH OF INSTALLATION
  - G. INCLINATION AND POSITION OF PILES, TOP OF PILE EXTENSION IN FULL CONTACT WITH BRACKET TIGHTNESS OF ALL BOLTS AND EVIDENCE THAT THE PILE FOUNDATION SYSTEMS ARE INSTALLED BY AN APPROVED IDEAL FOUNDATION SYSTEMS INSTALLER.
- 16. PILES IMPROPERLY INSTALLED BECAUSE OF MISLOCATION, MISALIGNMENT, OR FAILURE TO MEET OTHER SPECIFIED DESIGN/INSTALLATION CRITERIA ARE NOT ACCEPTABLE. ABANDON REJECTED PILES AND INSTALL ADDITIONAL PILES AS REQUIRED.

### HELICAL PILE PROOF TESTING

THE CAPACITY OF THE INSTALLED PILES SHALL BE VERIFIED BY FIELD TESTING OF A MINIMUM THREE (3) PERCENT OF PILES UP TO FIVE (5) PILES MAXIMUM (ONE (1) MINIMUM) IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN ASTM D1143 AND/OR THE 2018 INTERNATIONAL BUILDING CODE (IBC). THE MAXIMUM TEST LOAD SHALL BE TWO-HUNDRED (200) PERCENT OF THE SPECIFIED DESIGN LOAD.

GEOTECHNICAL SPECIAL INSPECTOR TO BE CONTINOUSLY PRESENT DURING ALL PILE INSTALLATION AND LOAD

# **ABBREVIATIONS**

ABOVE ABOVE FINISH FLOOR ALTERNATE ALUMINUM APPROXIMATE ALASKAN YELLOW CEDAR BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL CANTILEVER	GA GALV GLB GR GYP HDG HDR HF HGT HT IN JT MAX MIN MISC	GAUGE GALVANIZED GLULAM BEAM GRADE GYPSUM WALL BOARD HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT INCH JOINT MAXIMUM MINIMUM	
ALTERNATE ALUMINUM APPROXIMATE ALASKAN YELLOW CEDAR BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	GLB GR GYP HDG HDR HF HGT HT IN JT MAX MIN MISC	GLULAM BEAM GRADE GYPSUM WALL BOARD HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
ALUMINUM APPROXIMATE ALASKAN YELLOW CEDAR BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	GR GYP HDG HDR HF HGT HT IN JT MAX MIN MISC	GRADE GYPSUM WALL BOARD HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
APPROXIMATE ALASKAN YELLOW CEDAR BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	GYP HDG HDR HF HGT HT IN JT MAX MIN MISC	GYPSUM WALL BOARD HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
ALASKAN YELLOW CEDAR BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	HDG HDR HF HGT HT IN JT MAX MIN MISC	HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
BOX BEAM BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	HDR HF HGT HT IN JT MAX MIN MISC	HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
BOTTOM FLUSH BUILDING BLOCKING BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	HF HGT HT IN JT MAX MIN MISC	HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM	
BUILDING BLOCKING BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	HGT HT IN JT MAX MIN MISC	HEIGHT HEIGHT INCH JOINT MAXIMUM	
BLOCKING BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	HT IN JT MAX MIN MISC	HEIGHT INCH JOINT MAXIMUM	
BEAM BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	IN JT MAX MIN MISC	INCH JOINT MAXIMUM	
BOTTOM BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	JT MAX MIN MISC	JOINT MAXIMUM	
BOTTOM PLATE BEARING BETWEEN BASEMENT BOTTOM OF WALL	MAX MIN MISC	MAXIMUM	
BEARING BETWEEN BASEMENT BOTTOM OF WALL	MIN MISC		
BETWEEN BASEMENT BOTTOM OF WALL	MISC		
BASEMENT BOTTOM OF WALL	MISC		
BOTTOM OF WALL		MISCELLANEOUS	
	NB	NON-BEARING	
CANTILEVED	NO	NUMBER	
CHITLEVEN	OC	ON CENTER	
CONTROL JOINT			
CEILING	PSF	POUNDS PER SQUARE FOR	
CEILING JOIST	PSI	POUNDS PER SQUARE INC	
CLEAR	PT	PRESSURE TREATED	
CONCRETE MASONRY UNIT	RAF	RAFTER	
COLUMN	REF	REFERENCE	
CONCRETE	REINF	REINFORCEMENT	
CONNECTION	REQD	REQUIRED	
CONSTRUCTION	SF	SQUARE FOOT	
CONTINUOUS	SIM	SIMILAR	
CENTER	SPF	SPRUCE PINE FIR	
DETAIL	STD	STANDARD	
DOUGLAS FIR (SOUTH)	SYP	SOUTHERN YELLOW PINE	
DOUGLAS FIR LARCH	T/	TOP OF	
DIMENSION		TOP OF CONCRETE	
DOUBLE JOIST		TOP OF PLATE	
DIAMETER	·	TOP OF STEEL	
DOWN		TOP OF WALL	
DOWN SPOUT	·		
EACH		TOP FLUSH	
EACH FACE		TRIPLE JOIST	
EXPANSION JOINT		TOP OF BEAM	
ELEVATION	T/SLABTOP OF SLAB		
EDGE NAILING (PANEL)	TP	TOP PLATE	
EQUAL	TYP	TYPICAL	
EACH SIDE	UNO	UNLESS NOTED OTHERWI	
EACH WAY	UPA	UNDER POST ABOVE	
FLUSH BEAM	UWA	UNDER WALL ABOVE	
FINISH	VERT	VERTICAL	
FLOOR	VIF	VERIFY IN FIELD	
		WITH	
~	wc		
FOUNDATION		WESTERN CEDAR	
	WP	WESTERN CEDAR WATERPROOF	
	CONNECTION CONSTRUCTION CONTINUOUS CENTER DETAIL DOUGLAS FIR (SOUTH) DOUGLAS FIR LARCH DIMENSION DOUBLE JOIST DIAMETER DOWN DOWN SPOUT EACH EACH FACE EXPANSION JOINT ELEVATION EDGE NAILING (PANEL) EQUAL EACH SIDE EACH WAY FLUSH BEAM FINISH FLOOR FLASHING	CONNECTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CENTER CENTER DETAIL DOUGLAS FIR (SOUTH) DOUGLAS FIR (SOUTH) DOUGLAS FIR LARCH T/ DIMENSION T/C DOUBLE JOIST T/P DIAMETER T/S DOWN T/W DOWN SPOUT EACH EACH FACE EXPANSION JOINT ELEVATION EDGE NAILING (PANEL) EQUAL EACH SIDE EACH WAY FLUSH BEAM FINISH FLOOR FLASHING  REQD STR SF  ST  SIM  ST  TP  T/ C  T  T/ C  T/ C	

# SPECIAL INSPECTIONS SCHEDULE

SPECIAL INSPECTIONS TABLES PER THE 2018 IBC. ALL ITEMS NON-APPLICABLE ITEMS HAVE BEEN MARKED WITH A "-". ITEMS REQUIRING SPECIAL INSPECTION HAVE BEEN MARKED WITH AN "X".

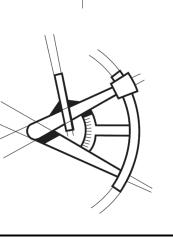
#### **TABLE 1705.3** REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
Inspect reinforcement, including prestressing tendons, and verify placement.	_	_	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
Reinforcing bar welding:     a. Verify weldability of reinforcing bars other than ASTM A 706;     b. Inspect single-pass fillet welds, maximum     *5	_	_	AWS D1.4 ACI 318: 26.5.4	_
c. Inspect all other welds.	_	_		
Inspect anchors cast in concrete.	_	_	ACI 318: 17.8.2	
4.Inspect anchors post-installed in hardened concrete members.  a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.  b. Mechanical anchors and adhesive anchors	_	_	ACI 318: 17.8.2.4	_
not defined in 4.a  5. Verify use of required design mix.	_	_	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	_	_	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
Inspect concrete and shotcrete placement for proper application techniques.	_	_	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
<ol><li>Verify maintenance of specified curing temperature and techniques.</li></ol>	_	ı	ACI 318: 26.4.7-26.4.9	1908.9
Inspect prestressed concrete for:     a. Application of prestressing forces; and     b. Grouting of bonded prestressing tendons.		_ _	ACI 318: 26.9.2.1 ACI 318: 26.9.2.3	_
<ol><li>Inspect erection of precast concrete members.</li></ol>	_	_	ACI 318: Ch. 26.8	_
11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	_	_	ACI 318: 26.10.2	_
<ol> <li>Inspect formwork for shape, location and dimensions of the concrete member being formed.</li> </ol>	_	_	ACI 318: 26.10.1(b)	_

#### **TABLE 1705.7** REQUIRED SPECIAL INSPECTIONS AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
Verify element materials, sizes and lengths comply with the requirements.	Х	_
Determine capacities of test elements and conduct additional load tests, as required.	X	_
<ol><li>Inspect driving operations and maintain complete and accurate records for each element.</li></ol>	X	_
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	х	_
<ol><li>For steel elements, perform additional special inspections in accordance with Section <u>1705.2</u>.</li></ol>	_	_
For concrete elements and concrete-filled elements, perform tests and additional special inspections in accordance with Section <u>1705.3</u> .	_	_
<ol><li>For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.</li></ol>	_	_

2 of 4



REVISIONS

DESCRIPTION DATE

PROJECT NAME

4121 80th Ave SE

Mercer Island. WA

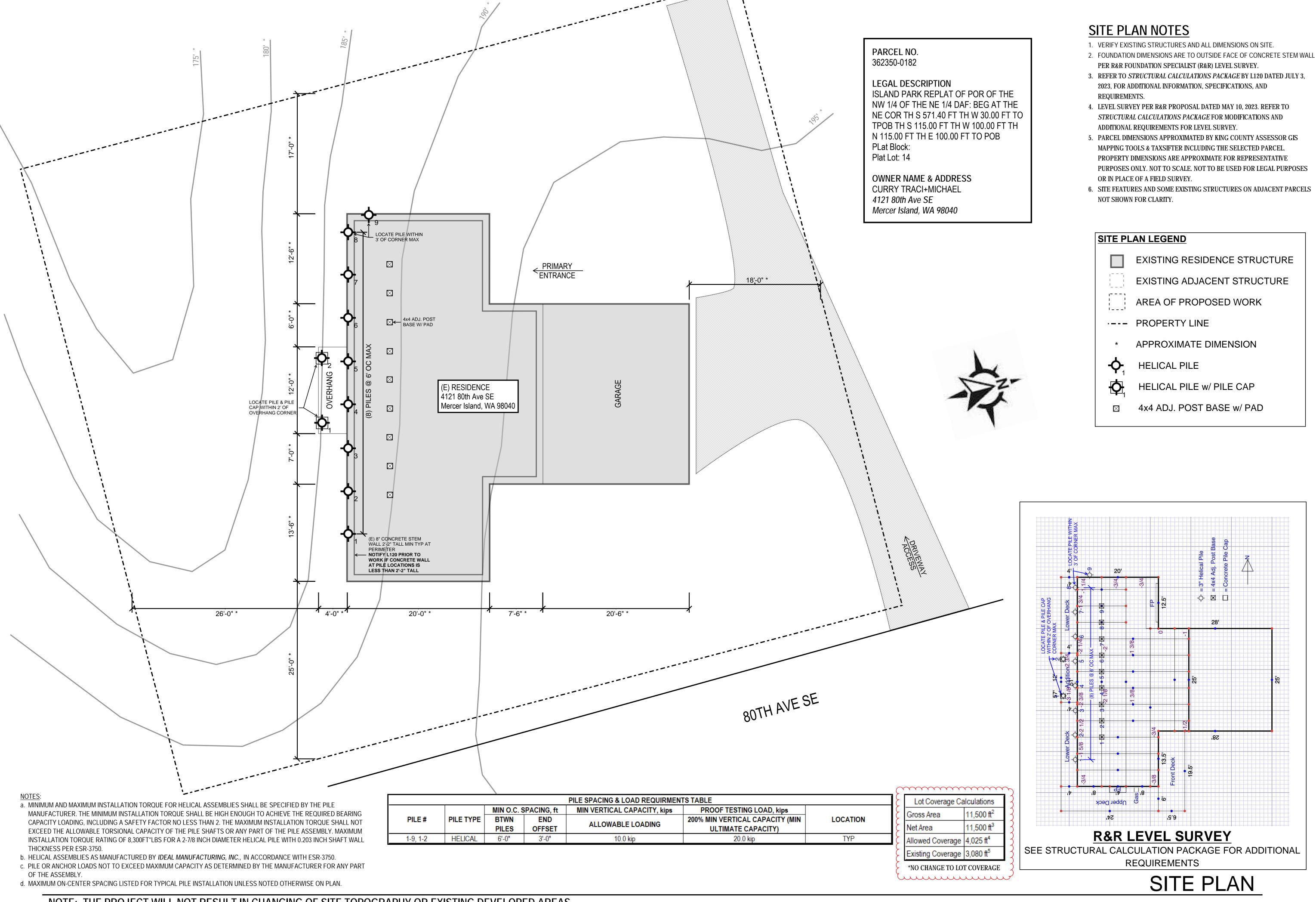
98040 PROJECT NUMBER

S230607-1XR RAWN BY - PAM

CHECKED BY - MRT

SHEET DATE - 07/03/2023

SCALE



REVISIONS DESCRIPTION DATE B

> PROJECT NAME 4121 80th Ave SE

Mercer Island, WA 98040 PROJECT NUMBER

S230607-1XR

DRAWN BY - PAM

CHECKED BY - MRT

SHEET DATE - 07/03/2023

SCALE

4 of 4

