THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

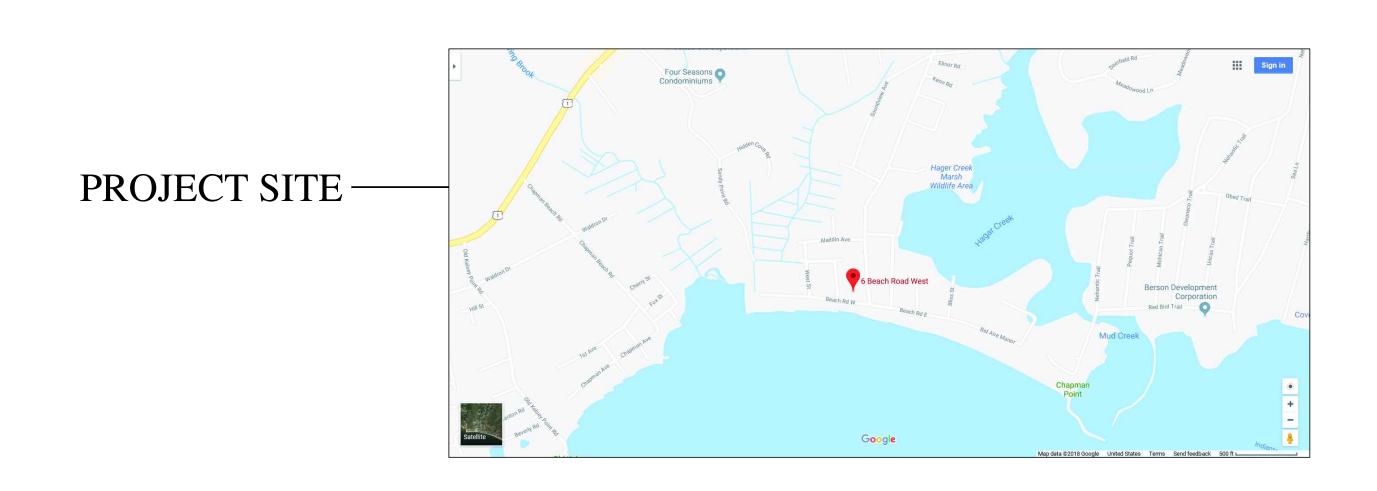


October 22, 2018

csa project 1347-58
ISSUED FOR:
Bidding and Construction



Glanz Residence Mitigation and Rehabilitation Application No. 2157 6 Beach Road West Old Saybrook, CT 06475









Architect

Capital Studio Architects, LLC 1379 Main Street

East Hartford, Connecticut 06108 tel: 860.289.3262 fax: 860.289.3163

Civil / Site Engineer

Design Professionals, Inc.

PO Box 1167
425 Sullivan Avenue
South Windsor, CT 06074
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Environmental Consultant

Eagle Environmental, Inc.

8 South Main Street, Suite 3
Terryville, Connecticut 06786
tel: 860.589.8257 fax: 860.585.7034

Structural Engineer

William M. Lapoint, PE

1379 Main Street East Hartford, CT 06108 tel: 860.622.0840

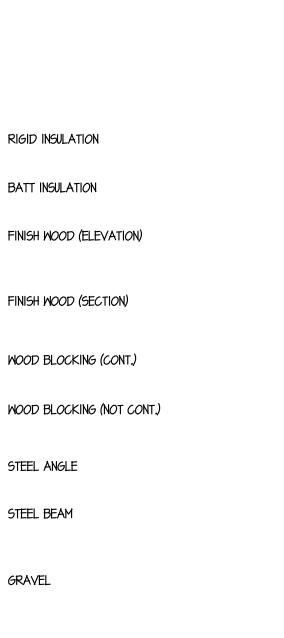
MEP Engineer

Consulting Engineering Services

811 Middle Street Middletown, CT 06457 tel: 860.632.1682

Drawing List

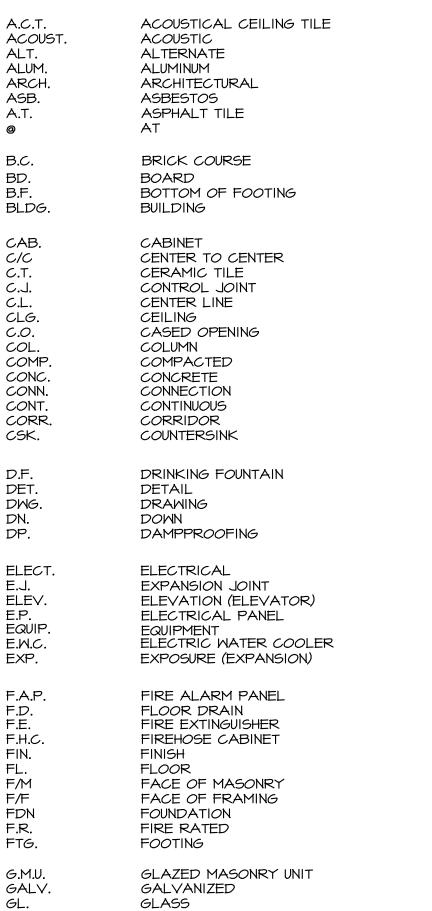
TITLE SHE	ET
AG-1.0	GENERAL INFORMATION
C-1	SITE PLAN
S-1.0	FOUNDATION PLAN
S-1.1	1ST FLOOR FRAMING PLAN
S-2.0	SECTIONS and NOTES
D-1.0	DEMOLITION
A-1.0	GROUND FLOOR PLAN
A-1.1	FLOOR PLANS
A-2.0	ELEVATIONS
A-3.0	SECTIONS and DETAILS
A-4.0	DECK and STAIR PLANS and DETAILS
P-1.0	PLUMBING PLANS
P-5.0	PLUMBING SYMBOLS, SPECIFICATIONS
	and DETAILS
E-1.0	ELECTRICAL PLANS
E-1.1	UNDERSTRUCTURE ELECTRICAL PLAN
E-5.0	ELECTRICAL SYMBOLS, SPECIFICATIONS
	and DETAILS



STEEL ANGLE

STEEL BEAM

GRAVEL



I.D. INSUL.

RE

REINF. R.L.

SPEC.

STOR.

SUSP.

TERR.

ΤŧΘ.

T/S T/STL

T/M

TYP.

V.C.T.

VERT.

VEST.

V.I.F.

V.M.C.

M

W.C.

MD.

MIND.

V.B.

THRESH.

STRUCT.

STL.

RM.

INSIDE DIAMETER

INSULATION

REFERENCE

REINFORCING

RAIN LEADER

SPECIFICATION

TERRAZZO (TERRACE)

TONGUE AND GROOVE

VINYL COMPOSITE TILE

VINYL WALL COVERING

STRUCTURAL

SUSPENDED

THRESHOLD

TOP OF SLAB

TOP OF STEEL

TOP OF WALL

VINYL BASE

VERIFY IN FIELD

WATER CLOSET

WATERPROOFING

VERTICAL

VESTIBULE

MOOD

MINDOM

TYPICAL

STORAGE

ROOM

STEEL

SIMILAR

JANITOR

TMIOL SHALL BE PAID BY THE OWNER. LAM. LAMINATED LOW POINT LCKR. LOCKER MAS. MASONRY MAT. MATERIAL MAX. MAXIMUM M.C. MASONRY COURSE MECH. MEM. MECHANICAL MEMBRANE MFR. MANUFACTURER RESTORED TO MATCH EXISTING ADJACENT SURFACES OR ORIGINAL CONSTRUCTION. MIN. MIR. MISC. MINIMUM MIRROR MISCELLANEOUS M.O. MASONRY OPENING N.I.C. NOT IN CONTRACT NO. NUMBER N.T.S. NOT TO SCALE 0/0 ON CENTER 0.D. OUTSIDE DIAMETER OPNG. OPENING OPP. **OPPOSITE** PERF. PERFORATED PNTD. COORDINATED WITH THE OWNER. PAINTED PRESSURE TREATED RUBBER BASE R.B.

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPLICABLE STATE OF CONNECTICUT BUILDING AND FIRE CODES AND SAFETY CODES. BEFORE WORK BEGINS CONTRACTOR IS TO CONTACT CALL BEFORE YOU DIG AT I-800-922-4455 TO LOCATE ALL UNDERGROUND UTILITIES.

WORK PERMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SECURE ALL REQUIRED LOCAL AND STATE OF CONNECTICUT PERMITS PRIOR TO COMMENCING WORK. ALL COSTS OF SECURING PERMITS

- 3. ALL MATERIALS AND EQUIPMENT THAT WILL BE USED IN THE CONSTRUCTION OF THIS PROJECT ARE SUBJECT TO THE APPROVAL OF THE OWNER. ALL MATERIALS AND EQUIPMENT REQUIRED BY NOTES OR SPECIFICATIONS SHALL BE SUBMITTED IN THE FORM OF SAMPLES AND SHOP DRAWINGS FOR APPROVAL BY ARCHITECT. WHERE COLOR SELECTIONS ARE MADE, COMPLETE SAMPLES SHALL BE FURNISHED TO THE ARCHITECT.
- 4. ALL EXISTING OR NEW CONSTRUCTION DISTURBED OR DAMAGED DURING THE COURSE OF THIS WORK SHALL BE
- 5. PRECAUTION MUST BE EXERCISED AT ALL TIMES FOR THE PROTECTION OF PERSONS AND PROPERTY. THE SAFETY PROVISIONS OF APPLICABLE LAWS AND CONSTRUCTION CODES MUST BE OBSERVED. CONTRACTOR SHALL TAKE OR CAUSE TO BE TAKEN SUCH ADDITIONAL SAFETY AND HEALTH MEASURES AS ARE REASONABLY NECESSARY MACHINERY, EQUIPMENT AND OTHER HAZARDS GUARDED IN ACCORDANCE WITH SAFETY PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, TO THE EXTENT THAT SUCH PROVISIONS ARE NOT IN CONTRADICTION OF APPLICABLE LAWS.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND PRESERVE IN OPERATIONAL CONDITION ALL UTILITIES TRAVERSING THE WORK AREA. DAMAGE TO ANY UTILITY DUE TO WORK UNDER THIS CONTRACT SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT NO ADDITION COST TO THE OWNER. UTILITY SHUT DOWNS MUST BE
- 7. EACH BIDDER WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF WITH THE CONDITIONS WHICH WOULD IN ANY MANNER AFFECT THE WORK UNDER THE CONTRACT AND NO LATER CLAIMS FOR EXTRA COMPENSATION FOR LABOR, MATERIALS AND EQUIPMENT WHICH COULD HAVE BEEN FORSEEN BY SUCH EXAMINATION WILL BE RECOGNIZED.
- 8. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASUREMENTS FOR HIS WORK AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS AND DIMENSION GIVEN ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- 9. DO NOT PROCEED WITH CHANGE IN SCOPE OF WORK WITHOUT WRITTEN APPROVAL FROM OWNER OR ARCHITECT.
- IO. ALL DEMOLITION SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND RELOCATION WORK NECESSARY TO PROPERLY COMPLETE THE PROJECT, REGARDLESS IF DEMOLITION WORK IS SHOWN OR NOT ON DRAWINGS.
- II. THE CONTRACTOR IS RESPONSIBLE FOR LEGAL DISPOSAL OF ALL CONSTRUCTION WASTE AND REMOVED ELEMENTS, UNLESS NOTED OTHERWISE ON DRAWINGS. DEBRIS SHALL BE DISPOSED OF ON A DAILY BASIS.
- 12. THE CONTRACTOR SHALL PROVIDE ALL STRUCTURAL SHORING, BRACING AND SHEATHING AS REQUIRED FOR SAFETY AND FOR PROPER EXECUTION OF WORK AND HAVE SAME REMOVED WHEN WORK IS COMPLETED.
- 13. THE OWNER RETAINS THE RIGHT TO SALVAGE ANY DEMOLISHED OR CONTRACTOR REMOVED MATERIAL(S). CONTACT OWNER BEFORE REMOVAL FROM SITE

GENERAL CONSTRUCTION and DEMOLITION NOTES



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK **GRANT - DISASTER** RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

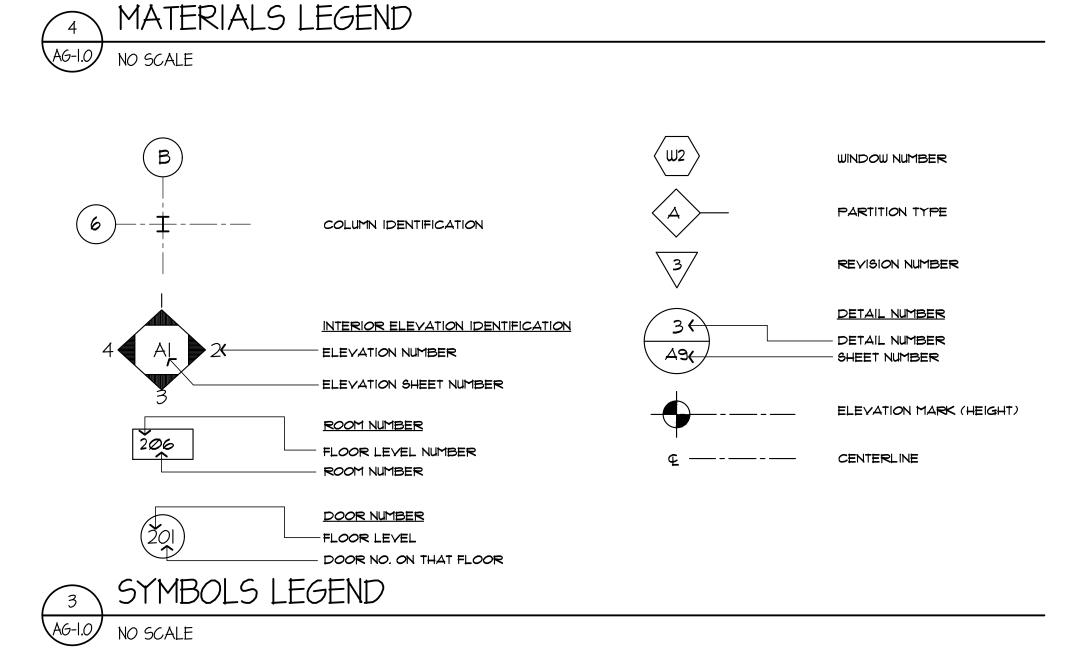
MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

date description

GENERAL INFORMATION

AG-1.0

22 OCT 2018 drawn NWF/JP AS SHOWN scale JP/KG checked 1347-58 project no. application no. 2157



BRICK

STONE

CONCRETE

PLYWOOD

MASONRY BLOCK

GYPSUM BOARD

STEEL (SECTION)

CERAMIC TILE

EARTH



GLAZING

HEIGHT

HOLLOW METAL

HIGH POINT

HARDWOOD

HARDWARE

GYPSUM WALL BOARD

GLZ.

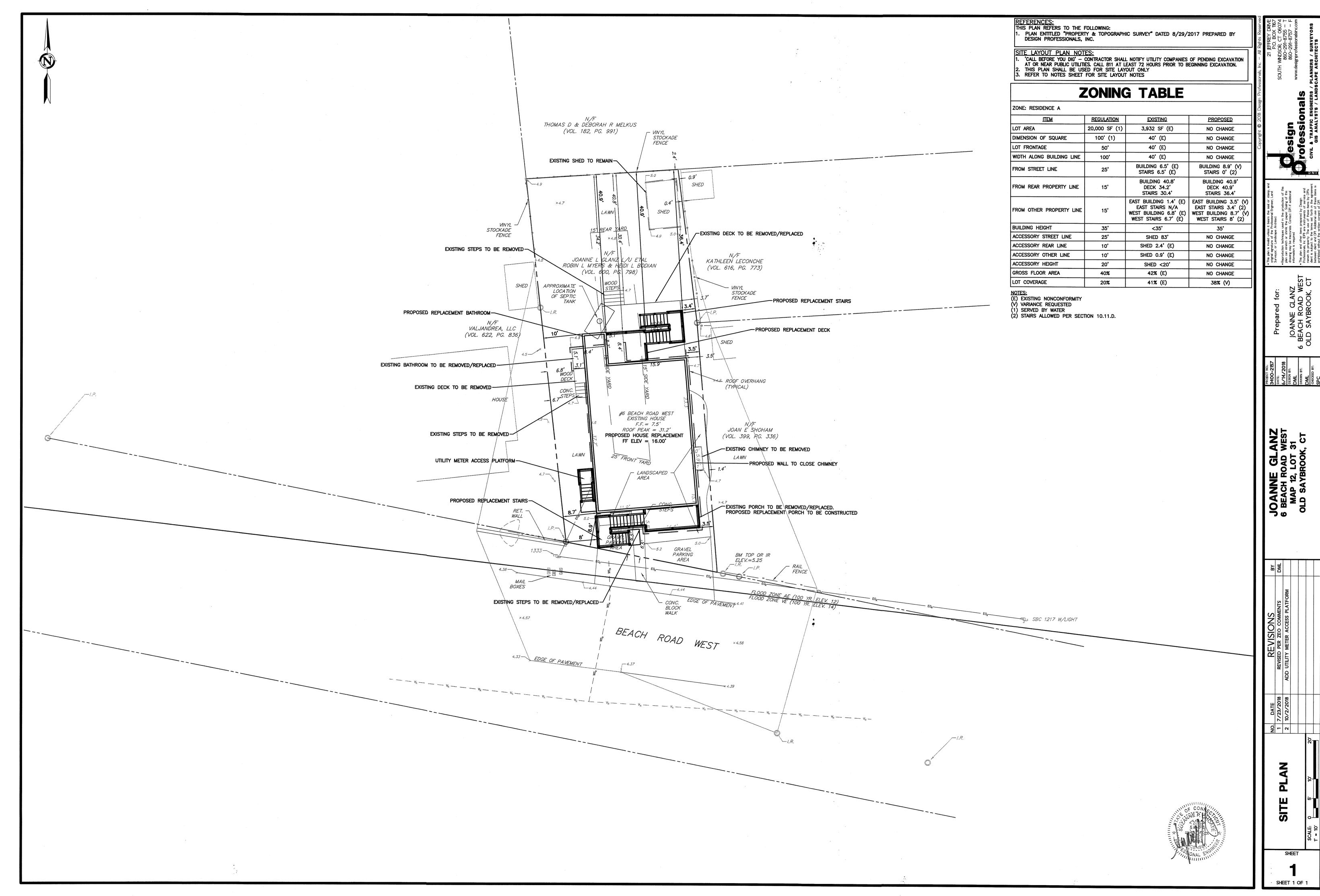
HGT.

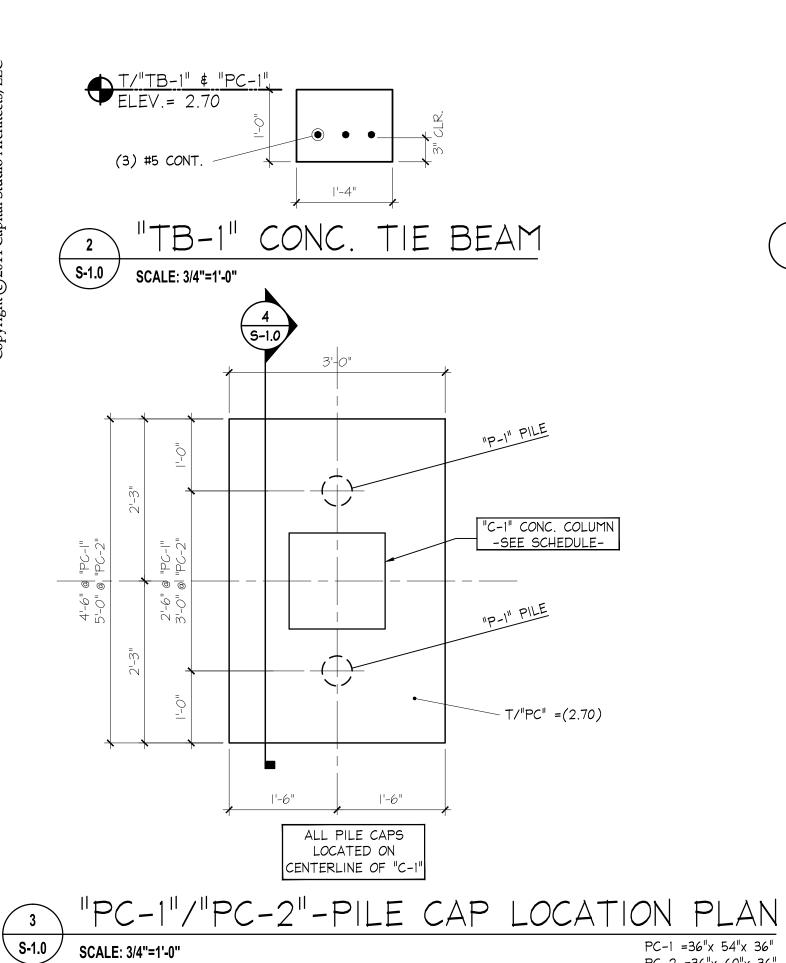
H.M.

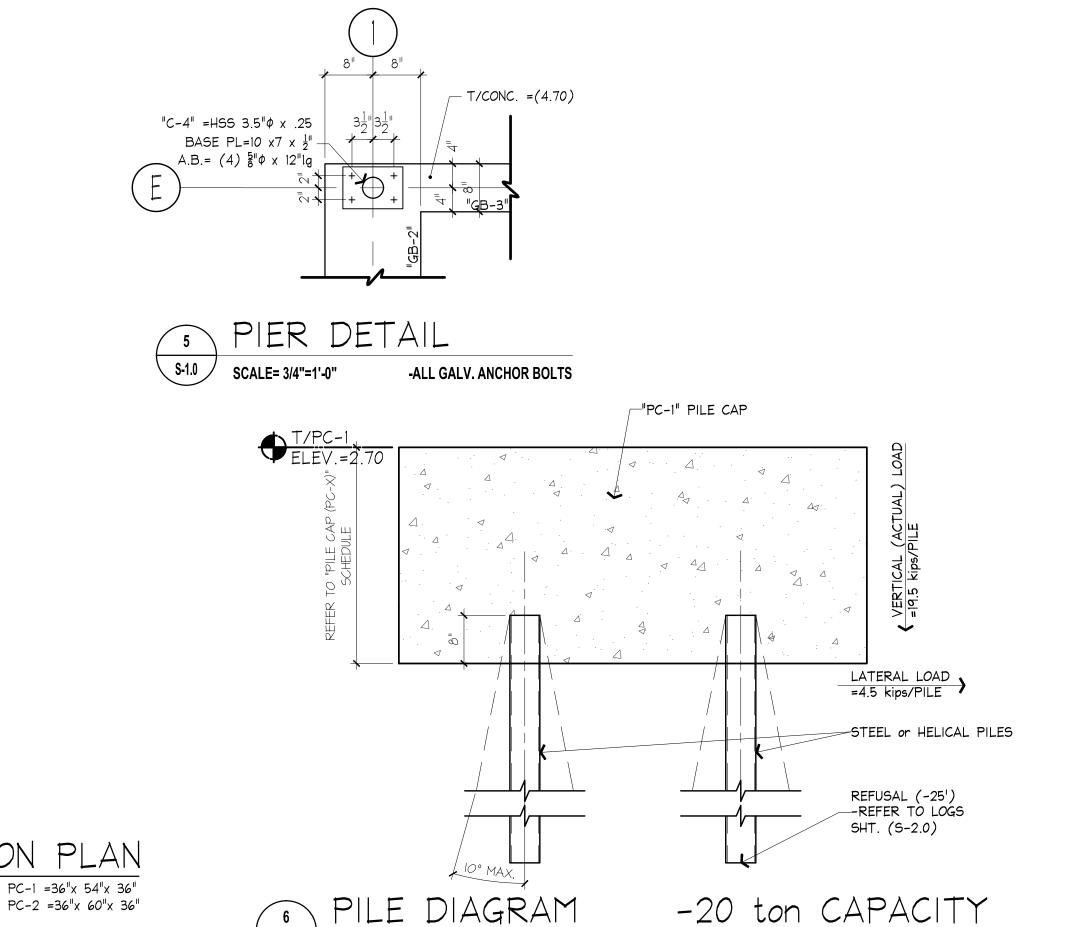
HDMD.

HDWR.

GYP. BD.







SCALE: 3/4"=1'-0" "GB" CONC. COLUMN -SEE S-1.0 SCHEDULE-"TB-1" TIE-BEAM --REFER TO PLAN #6 DOWELS FOR LOCATION ldash EXTEND #5 BARS INTO "PC" LENGTH OF PILES = 25'± (FROM EXISTING GRADE TO REFUSAL) -SEE BORING LOG (2) 5.0" PIPE-MINI PILE: ALL PILES DRIVEN TO REFUSAL. SEE LOGS PC-I: 54"x36"x36"d REINFORCE WITH PC-2: 60"x36"x36"d REINFORCE WITH PROVIDE ALL POINTS, SHOES, BOOTS & SPLICERS IN THE PILE SUBMITTAL TO ARCHITECT/ ENGINEER (6) #6 SW HOOK (7) #6 SW HOOK STEEL : GRADE C, Fy= 46ksi PROVIDE AN AS-BUILT SURVEY OF PILE (4) #6 LW HOOK (4) #6 LW HOOK LOCATIONS @ COMPLETION ALT. #2 (2) DRILLED HELICAL PILE: . REFER TO NOTES ON S-1.0 SECTION @ "PC-1" / "PC-2" PILE CAP

STRUCTURAL NOTES: -ALT. #2 **HELICAL PILES** (Total = 24)

Design Load = 10 Tons (10,000#) x 2 = Ultimate Load = 20 Tons/pile

ALL HELICAL PILES, METHODS & MATERIALS ARE TO BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW BEFORE START OF WORK SUBMIT SHOP DRAWING with THE HELICAL PILE DESIGN FOR REVIEW, SIGNED & STAMPED BY A LICENSED ENGINEER IN THE STATE OF

ALL WELDING: 70 KSI, AWS D1.1 BYA CERTIFIED WELDERS.

HELICAL PILES: ASTM A36 STEEL, GALVANIZED ASTNM A-153.

PLATE WELDS - 1/4" MIN.

PIPE: Grade N80 Steel MacLean Dixie HFS or Equivalent.

DEPTH OF HELICAL PILE = Design Length based on Engineer's review of Boring

Logs, Soil Condition and Ultimate Design Load.

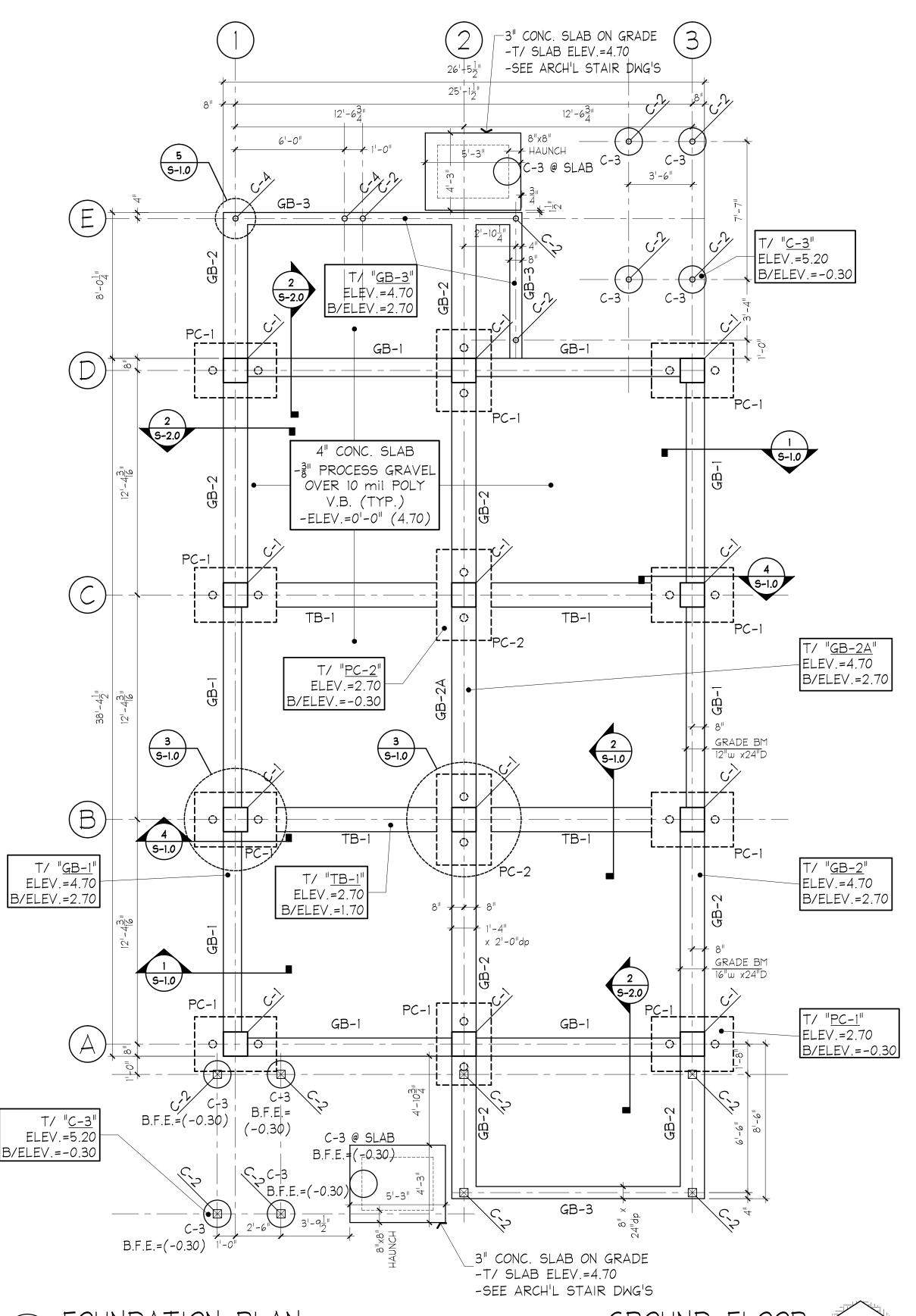
Pile Driving Records: Furnish upon completion of Pile installation.

COL/PIER SCHEDULE									
NO:	SIZE:	REINF.							
C-1 (concrete)	16" x 16"	(4) #6 #3 TIES @ 16"							
C-2 STEEL (ALT: wood)	3.5"Φ x .25" PIPE COL (ALT:6 x 6 PT post)	STEEL: A-500 (ALT: S.Y.P.)							
C-3 (concrete)	14"Φ SONO-TUBE	(1) #5							
C-4	3.5"Φ x .25" PIPE COL -CAP PLATE- ½ x8 x8	STEEL: A-500							

SCALE: 3/4"=1'-0"

GR	GRADE BEAM "GB-x"								
NO:	SIZE:	REINF.							
GB-1	12" x 24"	(3) # 6 TOP (3) #7 BOTT #3 TIES @ 42"oc							
GB-2 \$ GB-2A (GB-2A NO CANT'LVR)	16" x 24"	(3) # 6 TOP (4) #7 BOTT #3 TIES @ 36"oc #3 TIES @ 24"oc @ GB-2A CANT'R							
GB-3	8" x 24"	(3) # 5 TOP (4) #6 BOTT #3 TIES @ 36"oc							
TB-1	16" x 12"d	(3) #5							

PILE CAP "PC-1"								
NO:	SIZE:	REINF.						
PC-1	54" x 36" x 36"dp	(6) #6 x 2'-6" (4) #6 x 4'-0"						
PC-2	60" x 36" x 36"dp	(7) #6 x 2'-6" (4) #6 x 4'-6"						





-GROUND FLOOR

SCALE: 1/4"=1'-0"

1. TOP/ SLAB-ON-GRADE ELEV.= 0'-0" (LOCAL ELEV. 4.70') UNLESS NOTED THUS (±). ALL ELEVATIONS (+ OR -) 2. SLAB-ON-GRADE SHALL BE 3" THICK (3500 psi), REINFORCED ω / 6X6 W1.4xW1.4 WWF OR FIBERMESH ALTERNATIVE.

-BELOW HOUSE: 4" PROCESS 3" GRAVEL OVER 10 MIL POLY VAPOR BARRIER ON 8" NEW COMPACTED STRUCTURAL FILL, AS NEEDED FOR PROPER ELEVATION.

4. BOTTOM/ PILES ELEVATION=REFUSAL (-25.0')LOCAL ELEVATION-SEE LOGS 5. FIBERMESH OPTION: @ CONCRETE SLAB, SYNTHETIC FIBER UNIFORMLY DISPERSED IN CONCRETE MIXTURE @ MANUF. RECOMMENDED RATE; NOT LESS THAN 1.51b\c.y.

EXTERIOR DECK:
"C-2"/"C-2A": 3.5"φ, SCHED. 40 PIPE C.R.S. (ALTERNATE: 6x6 P.T. POST FOR "C-2" ONLY)
CAP PLATE: 8 x8 x8 BASE PLATE: $\frac{1}{2}$ " x7 x10 w/ (4) $\frac{8}{8}$ " ϕ A.B. (GALV.) or $\frac{1}{2}$ " x10 x10 w/ (2) $\frac{8}{8}$ " ϕ x12" lg A.B. (GALV.)

ALL STEEL PRIME & RUST PROOF PAINTED

"C-1": CONCRETE COLUMN/PIER.

"PC-1": CONCRETE PILE CAP

"GB-1": CONCRETE GRADE BEAM

"TB-1": CONCRETE TIE BEAM

-REFER TO S-1.0 SCHEDULES FOR INFO

PLAN

FOUNDATION

1379 MAIN STREET EAST HARTFORD CT. 06108 860.289.3262 fax 860.289.3163

THE STATE OF

CONNECTICUT

HOUSING (DOH)

COMMUNITY

DEPARTMENT OF

GRANT - DISASTER

MITIGATION and

REHABILITATION

GLANZ RESIDENCE

APPLICATION No. 2157

6 BEACH ROAD WEST

IAM M. LAPOINT, PE

1379 Main Street East Hartford, CT 06108

wmlpe@aol.com

voice: 860.622.0840

OLD SAYBROOK, CT

DOH OCCUPIED

(OORR)

for the

06475

DEVELOPMENT BLOCK

RECOVERY (CDBG-DR)

REHABILITATION and

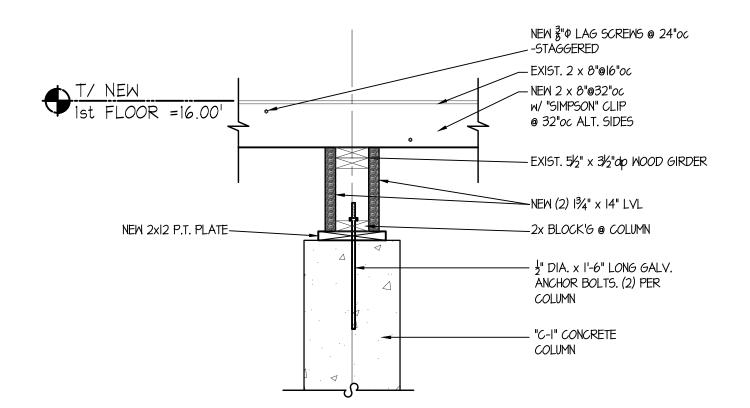
REBUILDING PROGRAM

S-1.0

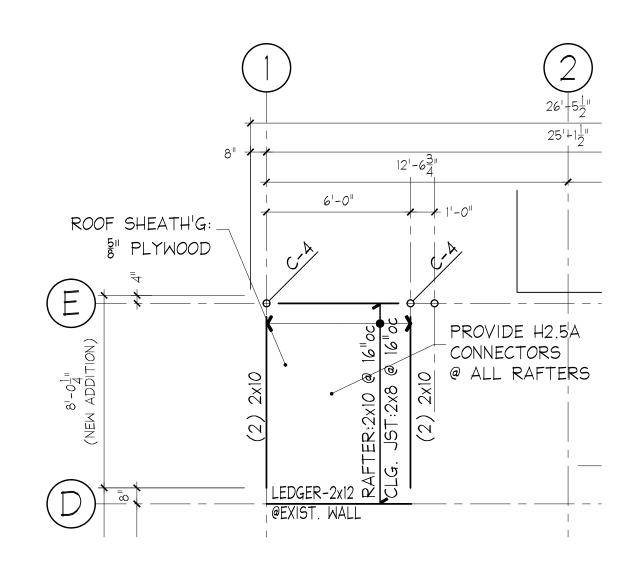
description

date

date 22 OCT 2018 drawn JB scale AS SHOWN checked MML 1347-58 project no. application no. 2157



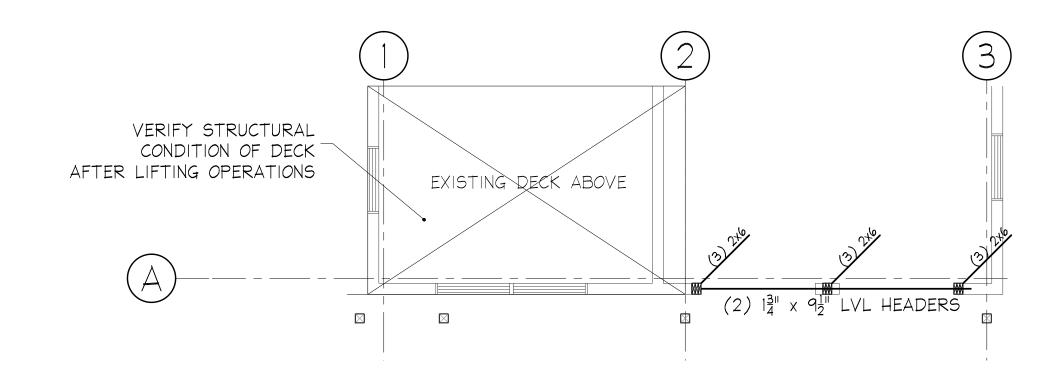
DETAIL @ EXIST. GIRDER @ CENTERLINE "2"



ROOF FRAMING PLAN S-1.1 SCALE: 1/4"=1'-0"

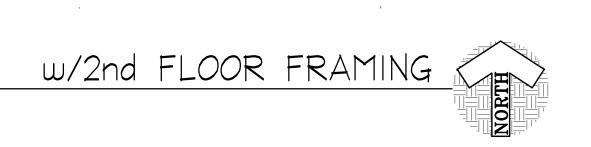
-NEW ADDITION

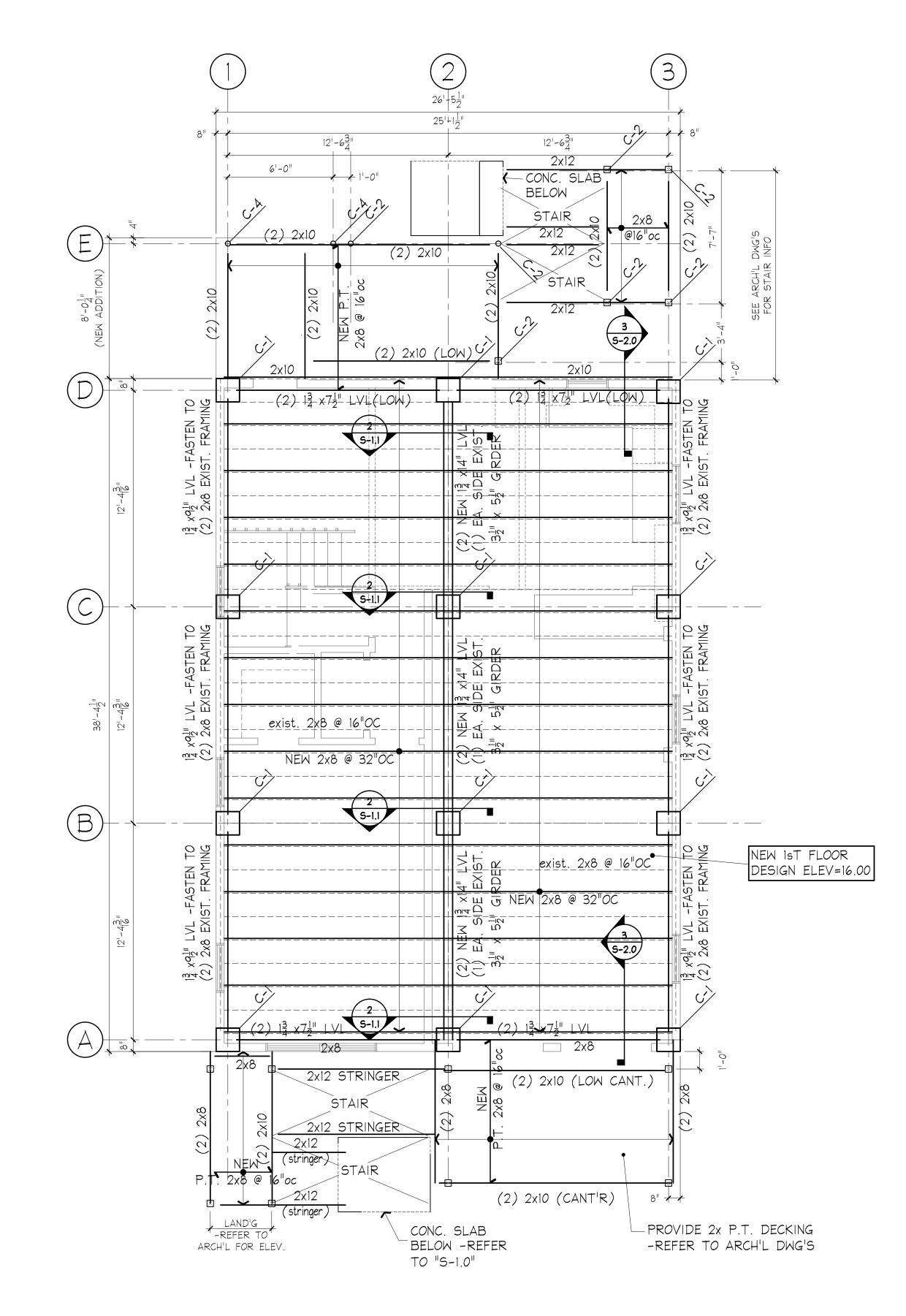




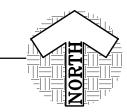
FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"





EXIST FRAMING PLAN W/ NEW 1ST FLOOR FRAMING S-1.1 SCALE: 1/4"=1'-0"



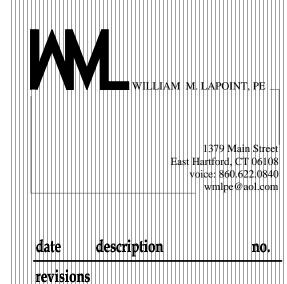
DECK NOTES:

- 1. TOP/EXIST. 1st FLOOR FRAMING ELEV.= 16.00
- 2. ALL FASTENERS TO BE "SIMPSON" GALV. OR S.S.
 3. POST CONNECTIONS:
 CAP= PC2/EPC2 -SIMPSON STRONG-TIE
 BASE= CBQ66 -SIMPSON STRONG-TIE
 4. "C-1": CONCRETE COLUMN/PIER. REFER TO S-1.0 FOR INFO



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK **GRANT - DISASTER** RECOVERY (CDBG-DR) DOH OCCUPIED **REHABILITATION** and REBUILDING PROGRAM (OORR)

MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475



1st FLOOR FRAMING PLAN

S-1.1

22 OCT 2018 drawn JB AS SHOWN scale checked MML project no. 1347-58

application no. 2157

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STRUCTURAL NOTES:

A. GENERAL

- ALL WORK SHALL CONFORM TO THE 2016 CT BUILDING CODES: IRC 2012 and any CONNECTICUT SUPPLEMENT, ALL FEMA Requirements and the Town of Old Saybrook.
- CONNECTICUT SUPPLEMENT, ALL FEMA Requirements and the Town of Old Saybrook.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED TO MAINTAIN STRUCTURAL STABILITY DURING LIFTING OPERATIONS & CONSTRUCTION.
- IF REQ'D, ALL FIELD TESTING SHALL PERFORMED BY AN ACCREDITED TESTING LABORATORY.

B. FOUNDATION

- ALL FOUNDATIONS SHALL BEAR ON STEEL PILES and PILE CAPS. ANY UNSUITABLE SOIL CONDITION UNDER SLAB SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ARCHITECT/ENGINEER.
- 5. SLAB-ON-GRADE SUB-GRADE SHALL BE COMPACTED USING A VIBRATORY TAMPER OR JUMPING SOIL RAMMER AFTER THE STRUCTURAL BACKFILL HAS BEEN APPROVED.
- PROVIDE BACKFILL MATERIAL (Submit for Approval) FOR BELOW SLAB-ON-GRADE & SHALL BE PLACED IN LAYERS NOT TO EXCEED 8". REF: BACKFILL SPECIFICATIONS.

 WHERE BOTT/FOOTINGS ARE BELOW THE GROUNDWATER ELEVATION, PLACE 8" OF 3/8"

C. CONCRETE (All materials to be submitted for Review before start of work)

- CONCRETE MATERIALS ARE AS FOLLOWS: 3000 psi at WALLS, GRADE BEAMS, PILE CAPS, FOOTINGS, and EXTERIOR SLABS, & 4000 psi For COLUMNS/PIERS.
- 9. REINFORCEMENT: ASTM A615, Fy = 60 ksi.
- 10. CONCRETE WORK SHALL CONFORM TO ACI 301-03 & ACI 318-03.
 - MINIMUM COVER FOR REBAR:

CRUSHED STONE UNDER FOOTINGS.

- 1 CONCRETE AGAINST EARTH......3"
 2 CONCRETE EXPOSED TO WEATHER.....2"
- 2 CONCRETE EXPOSED TO WEATHER....... 3 CONCRETE AT INTERIOR SLABS......

12. INTERIOR FLOOR

- BASEMENT SLAB SHALL HAVE A STEEL TROWEL FINISH. PITCH TO EXTERIOR. EXTERIOR SLABS SHALL RECEIVE A COURSE BROOM FINISH. VERIFY WITH OWNER ON SLAB TREATMENT BEFORE PRECEEDING.
- 13. APPLY CURING COMPOUND TO SLABS IMMEDIATELY FOLLOWING TROWELING, Cure-N-Seal #830 or EQUAL.
- 14. GROUT & RUB ALL EXPOSED SURFACES OF FOUNDATION WALLS WITHIN 48 HOURS OF POUR.
 15. SAW CUT SLAB-ON-GRADE CONTROL JOINTS AT A MAX. (8' x 8') MAX. JOINTS SHALL BE
 - CUT 1/4" min. and WITHIN 24 HOURS OF POUR. FILL JOINTS WITH NON SHRINK GROUT.

D. STEEL (All materials to be submitted for Review before start of work)

16. MATERIALS: (All exposed steel shall be galvanized)
W or HP Sections......ASTM A992, Fy = 50 ksi.

PLATES, ANGLES, ETC......ASTM A36, Fy = 36 ksi. ANCHOR BOLTS (galv).....ASTM A307. EXTERIOR PIPE COLS.....ASTM A501, Fy = 36 ksi.

STEEL PILES: TYPE SHALL BE MICRO PILES, MINI PILES OR APPROVED HELICAL ANCHORS. RATED = 20 TON CAPACITY. STEEL SHALL BE 50 KSI. SUBMIT MATERIAL & SPECS FOR REVIEW

E. WOOD (All materials to be submitted for Review before start of work)

- 17. MATERIALS: USE HEM OR DOUG FIR-LARCH, NO. 1 OR BETTER FOR ALL CONVENTIONAL FRAMING. USE LUMBER WITH LESS THAN 19 PERCENT MOISTURE CONTENT.
- Design Data Fb = 1000 psi, E = 1500 ksi

 18. MATERIALS: USE LVL OR EQUAL (micro-lam) BEAMS AS INDICATED ON DRAWINGS. FOLLOW MANUF. REQUIREMENTS FOR INSTALLATION AT EXTERIOR DECK. MIN BEARING = 3 ½"
- Design Data Fb = 2800 psi, E = 2000 ksi

 9. USE TJI (truss joist or Approved Equal) FLOOR TRUSSES AS INDICATED ON DRAWINGS. USE WEB STIFFENERS AND SOLID BLOCKING AT ALL BEARING POINTS AND AS REQUIRED PER MANUFACTURE. TJI's ARE UNSTABLE UNTIL BRACED LATERALLY, PROVIDE TEMPORARY BRACING AND SHORING BEFORE ALL FLOORING IS IN PLACE. MIN. BEARING FOR TJI's = 3 ½".
- 20. USE SIMPSON (or Approved Equal) STRONG TIE JOIST HANGERS AND FRAMING
- CONNECTORS. SUBMIT TO ENGINEER FOR REVIEW.

 TIE RAFTERS TO WALL PLATES WITH SIMPSON HURRICANE CONNECTORS. SEE DETAILS.
- DOUBLE UP FLOOR JOISTS NEXT TO ALL FLOOR PENETRATIONS GREATER THAN 24".
 DO NOT CUT HOLES IN FLOOR JOISTS WITHOUT APPROVAL FROM ENGINEER OR MANUF.
- 23. DO NOT CUT HOLES IN FLOOR JOISTS WITHOUT APPROVAL FROM ENGINEER OR MANC 24. ANY LUMBER TOUCHING CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
- 25. IT IS CRITICAL THAT ALL ROOF RAFTERS, RIDGE BEAMS, HEADERS
- AND BEARING WALLS CARRY THEIR LOADS DOWN TO THE FOUNDATION. WHENEVER A BEAM OR HEADER BEARS ON A FRAMED WALL, INSTALL A 3-2X4 COL(OR AS NOTED) IN T HE FRAMED WALL VERTICALLY UNDER THE BEARING POINT LOAD. USE SOLIB BLOCKING BETWEEN FLOORS.
- 8. CONTRACTOR SHALL CONFORM TO THE "WOOD FRAME CONSTRUCTION MANUAL", 125 mph, EXPOSURE C (WFCM), FOR ALL NAILING PATTERNS, FASTENING & CONNECTIONS. SEE DWGS FOR ADDITIONAL SHEAR WALL CONNECTIONS.

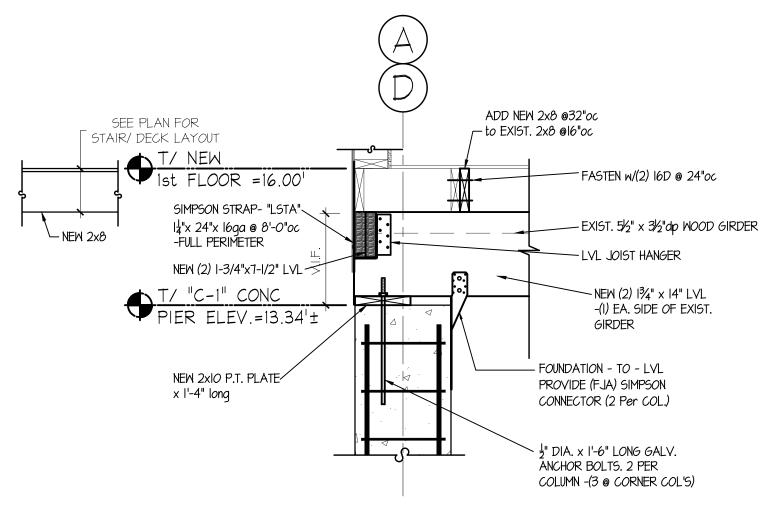
F. DESIGN CRITERIA (Old Saybrook, CT)

FIRST FLOOR LIVE LOAD = 40 psf SECOND FLOOR (Bedrooms) LIVE LOAD = 30 psf ATTIC FLOOR LIVE LOAD = 10 psf EXTERIOR DECK LIVE LOAD = 60 psf ROOF LIVE LOAD = 30 psf WIND LOAD125 mph (3 sec)

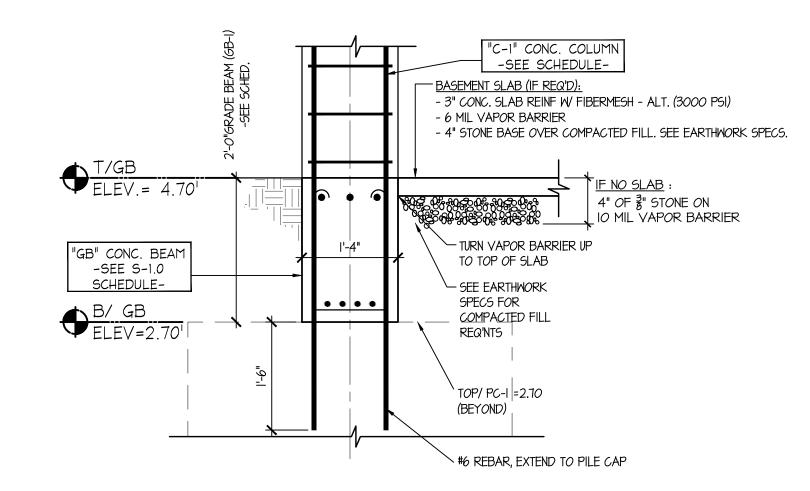
NOTE: The structural design was performed only for general conformance of new Construction Work at this Site in Old Saybrook CT., using the assumed local site conditions and general compliance with the CT State Code and based on information provided by the Architect/Owner. The Building Contractor is responsible for: existing framing sizes & dimensions, and shall be confirmed and coordinated at the job site with the Architect & Owner, information that pertains to the fabrication process, or to the means, methods, techniques, sequences, and procedures of construction. The Contractor is responsible for all work in a safe and satisfactory manner. Any discrepancies shall be brought to the attention of the Architect/Engineer/Owner before the start of Work.

PRESUMPTIVE SOIL BEARING PRESSURE......PILES TO REFUSAL

CLIEN G		sulting Engineers,	PC		P	Ge P. O. BO	nera					12		SHEET 1 OF 1		
	MAN/DRI	LLER:		DDC										SOIL ENGINEER		
John Wyant INSPECTOR: Garry Jacobsen					PROJECT NAME: Glanz Re LOCATION: Old Sayb									DECION ENGINEED		
	ce Elevation				OB NO			220-		JOK, C	<u> </u>			DESIGN ENGINEER		
	Started:	9/22/17	OX.)	TY		S Au	gor		sing	San	npler	Core	Bar	Hole No. B-1		
	Finished:	9/22/17		- ''		H Aug			IA		S.		IQ	Line & Station		
Date		ater Observations	,	Size I	n	I i Aug	Ci		1/4"		3/8"		1/8"	Offset L R		
AT		AT COMPLETION		Hamr				J-	1/-		LBS.		Bit	N Coordinate		
AT	0.0	AFTER	HRS	Fall	iici						0"			E. Coordinate		
D			SAMPL					BLC	WS		Ĭ	Diai	I	E. Coordinate		
E	Casing		T	T			PI	ER 6 I		S	STR	RATA		FIELD IDENTIFICATION OF SOIL,		
P	blows	DEPTH		PEN.	REC.			0				NGE:		REMARKS (INCL. COLOR, LOSS		
T	per	IN FEET	NO.	IN	IN	TYPE		SAMI				PTH,		OF WASH WATER, ETC.)		
H	foot	FROM - TO	110.	"'			0-6	_		18 24		EV.		or when which, Ere.,		
	1001	0-2.0	1	24	18	SS	4	3	3	3		.0'	1) 0	ose-Gray sandy GRAVEL		
		0-2.0	 '	27	10	- 00				3		.5'	2.60	eway fill)		
		2040	├ ~	24	40			4	_	2	1.	$\frac{c}{}$		rk brown fine SAND, little silt,		
		2.0-4.0	2	24	12	SS	4	4	6	2	١.,	\	,			
_												ND /	TOPS			
5											5.	0'	+	ing to red brown medium-fine		
		5.0-7.0	3	24	3	SS	1	1	1	1			sand.			
											ORG	ANIC	0.53	ose-Gray-brown medium-fine		
		7.0-9.0	4	24	16	SS	2	1	1	1	SI	SILT S		D little fine gravel.		
													gradii	ng to medium-fine SAND		
10		9.0-11.0	5	24	20	SS	2	5	6	7	10	0.0'	3) Ve	ry loose-Dark gray silty fine SAND.		
													proba	ably grade to S-4		
		11.0-13.0	6	24	18	SS	6	6	9	6		\ 4) \		ry soft-Dark gray interbedded		
		1110 1010	1 -							-				organic SILT to organic silty		
												1		SAND.		
15														edium-Dark gray organic silty fine		
15		450470	 	0.4	40	00	-		40	40		1				
		15.0-17.0	7	24	18	SS	7	7	12	12			D, trace fibers.			
												,	ff-Brown fine sandy SILT			
												LT		ff-Brown SILT, trace fine sand,		
											FINE	SAND		trace clay.		
20														edium-Laminated silty brown to		
		20.0-22.0	8	24	18	SS	8	6	13	12				rown to yellow brown fine SAND		
													to SIL	₋T, trace clay with fine sand,		
													partin	ngs and seams.		
25											25	5.5'				
		25.0-27.0	9	24	18	SS	9	13	16	18	SA	ND	9) Me	edium-Brown to red brown		
				† - ·								AVEL	,	pedded medium-fine SAND to		
												3.0		se-fine SAND, little fine gravel.		
			1											r bitted very hard then softer to 30'		
30											/11-11-0-1 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-).0'		able decomposed rock.		
50	\vdash	30.0-30.0	10	0	0	SS	50/0			6	30	7		Gray cobble fragments		
		30.0-30.0	10	"	0	33	30/0)		1-Cored Rock 30.0'-33.5'			
0.5		20.0.00.5	-	10	00	_				6						
		30.0-33.5	1	42	36	С				3		3.5'		vered 36" RQD=19" Rust brown		
			1	-						2/6"	E0	ов /		se grained, GNEISS, foliation high		
35	\square											1	_	e several decomposed layers		
			1											wise FRESH.		
														OF BORING 33.5'		
													NOT	E: Started with HSAs then		
													drove	e casing to 11' and continued		
40			1											hole with drilling mud		
	From Grou	und Surface to			Feet L	Jsed		in. Ca	sing TI	nen		in. Cas	sing Fo	r Feet		
	Feet in Ea	rth 30				n Rock		3.5				Sample		9 Hole No. B-1		
SAMF	PLE TYPE	CODING:	SS =	DRIVEN C = C				ORE			A = A	UGER		U = UNDISTURBED PISTON		
	PORTIONS	S USED:	TRAC	E = 1-	10%		LITTLI	E = 10	-20%		SOME	= = 20	-35%	AND = 35-50%		



SECTION @ NORTH/ SOUTH WALLS
S-2.0 SCALE: 3/4"=1'-0"



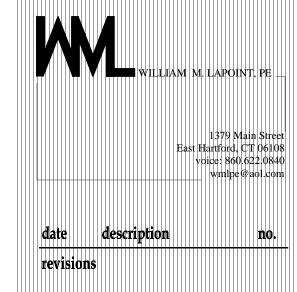
2 SECTION @ GRADE BEAM

"GB-1" / "GB-2" / "GB-2A"



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REBUILDING PROGRAM
(OORR)

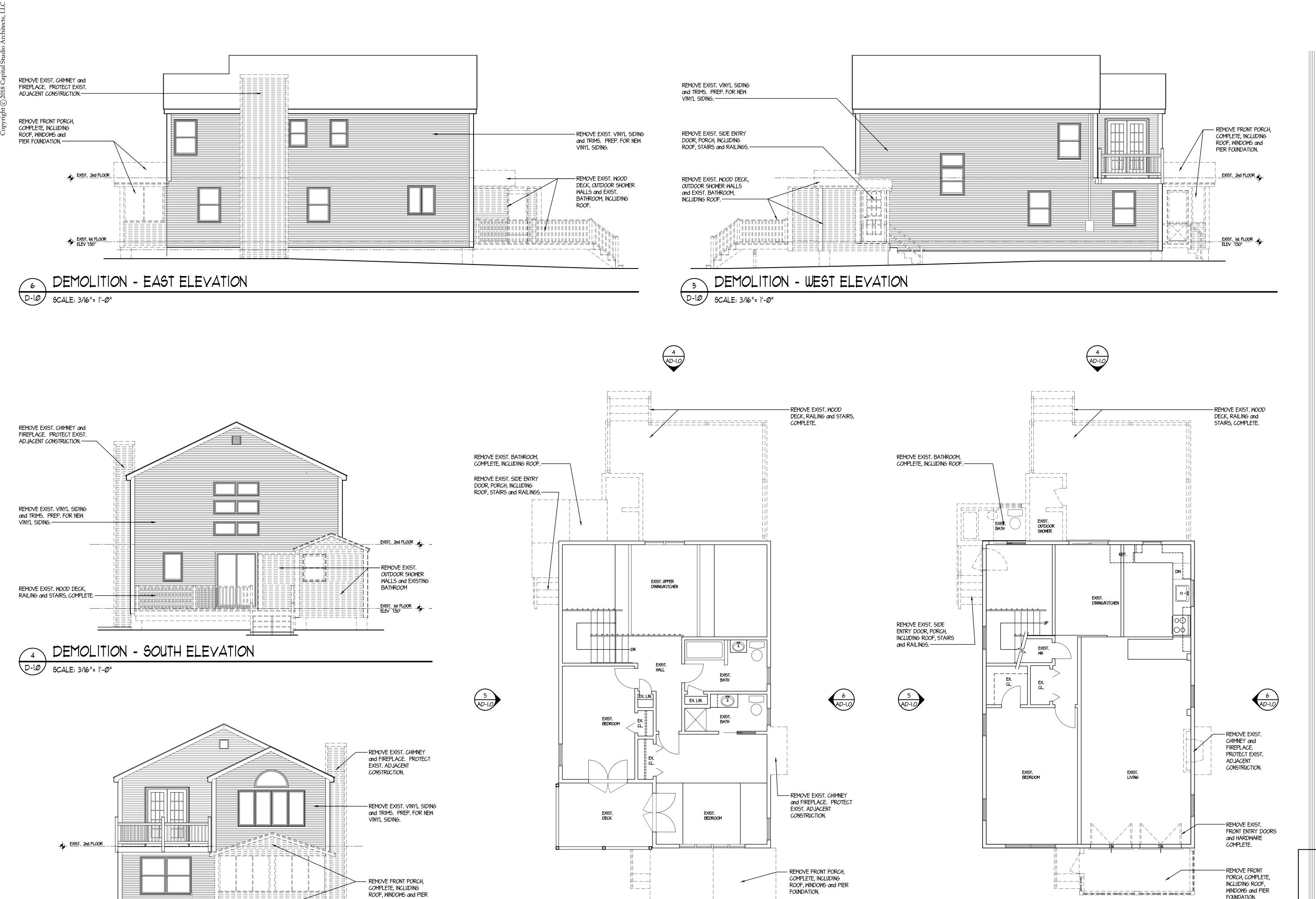
MITIGATION and REHABILITATION for the GLANZ RESIDENCE APPLICATION No. 2157 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475



SECTIONS & NOTES

S-2.0

date 22 OCT 2018
drawn JB
scale AS SHOWN
checked WML
project no. 1347-58
application no. 2157



DEMOLITION - SECOND FLOOR PLAN

D-1.0 SCALE: 3/16"= 1'-0"

EXIST. Ist FLOOR 150'

D-1.0 SCALE: 3/16"= 1'-0"

DEMOLITION - NORTH ELEVATION

architects LLC 1379 MAIN STREET EAST HARTFORD CT. 06108 fax 860.289.3163

THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK **GRANT - DISASTER** RECOVERY (CDBG-DR) OWNER OCCUPIED **REHABILITATION** and REBUILDING PROGRAM (OORR)

MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

date description

DEMOLITION

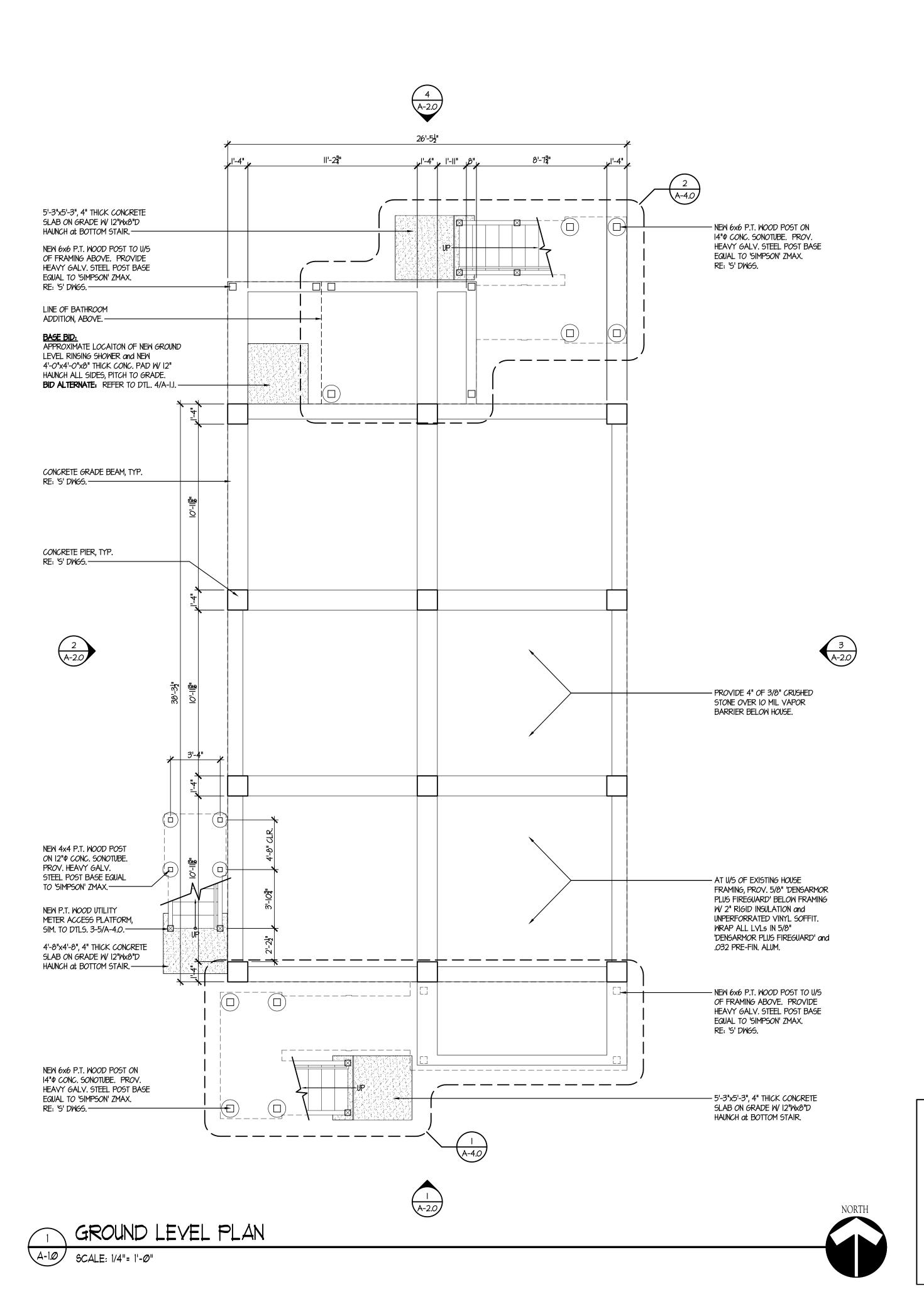
D-1.0

22 OCT 2018 NWF/JP drawn AS SHOWN JP/KG checked 1347-58 project no. application no. 2157

FOUNDATION.

DEMOLITION - FIRST FLOOR PLAN

D-1.0 SCALE: 3/16"= 1'-0"





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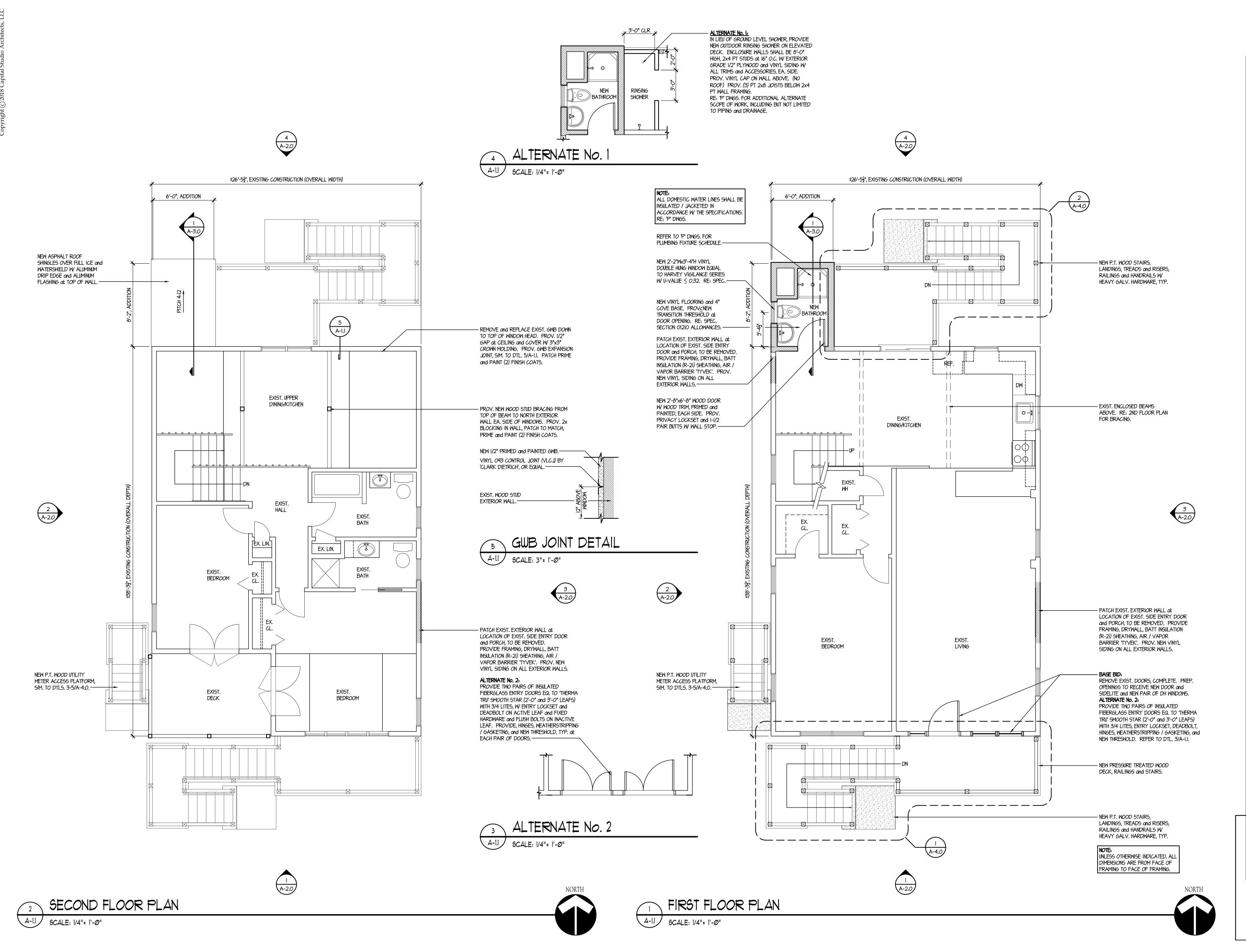
MITIGATION and REHABILITATION for the GLANZ RESIDENCE APPLICATION No. 2157 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

date description n

GROUND FLOOR PLAN

A-1.0

date 22 OCT 2018
drawn NWF/JP
scale AS SHOWN
checked JP/KG
project no. 1347-58
application no. 2157





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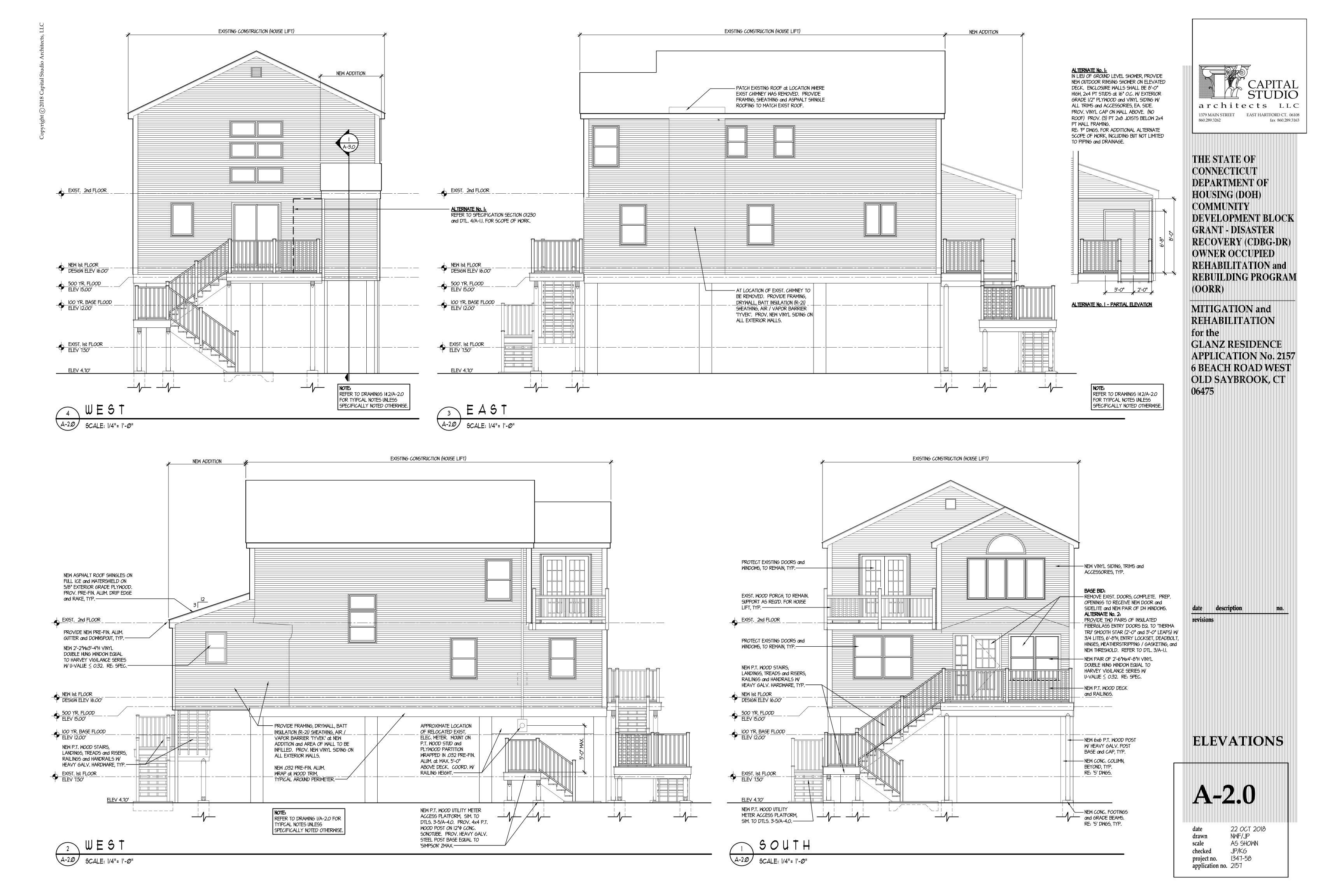
date description no.

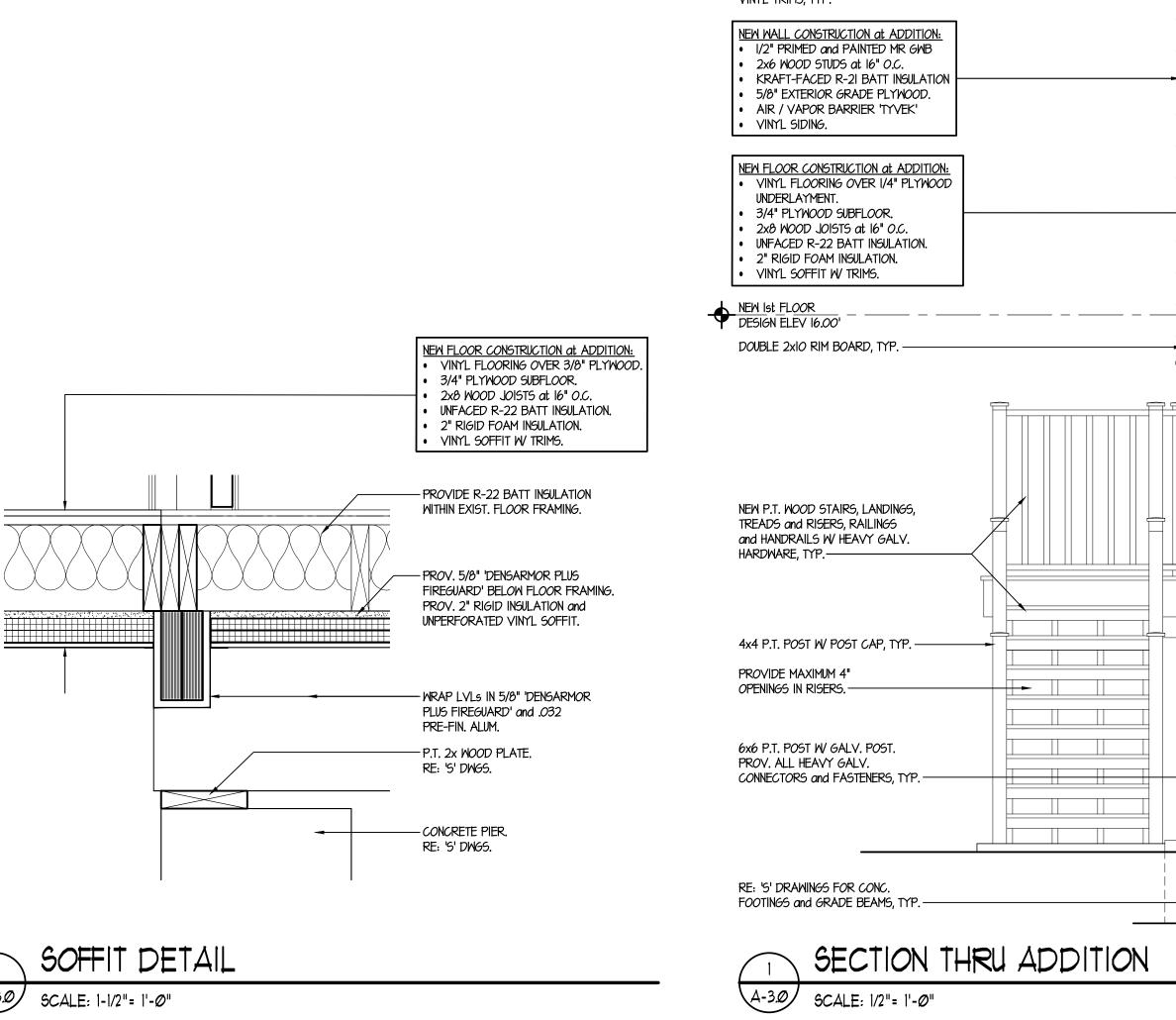
FLOOR PLANS

A-1.1

date 22 OCT 2018 drawn NMF/JP scale AS SHOWN checked JP/KG project no. 1347-58

application no. 2157





NEW CLG. CONSTRUCTION at ADDITION:

I/2" PRIMED and PAINTED GWB CLG.

2x8 CLG. JOISTS at 16" O.C.

INSULATION BAFFLES AS REQ'D.

NEW ROOF CONSTRUCTION at ADDITION:

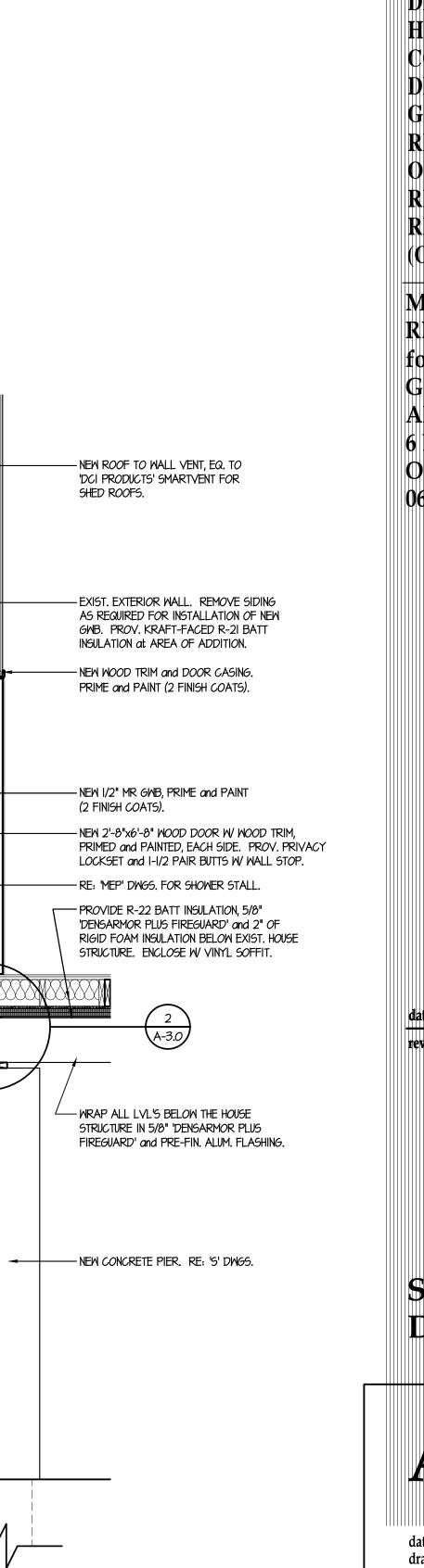
• 2XIO WOOD RAFTERS at 16" O.C. 5/8" EXTERIOR GRADE PLYWOOD. FULL ICE and WATERSHIELD ASPHALT SHINGLE ROOFING.

IX WOOD FASCIA, WRAPPED IN .032 PRE-FIN. ALUM. W/ PRE-FIN. ALUM. DRIP EDGE.——

NEW PERFORATED VINYL SOFFIT and

(PERP.) ABOVE.

KRAFT-FACED R-22 BATT INSULATION UNFACED R-30 BATT INSULATION



(2 FINISH COATS).

A-3.0

architects LLC 1379 MAIN STREET EAST HARTFORD CT. 06108 fax 860.289.3163

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MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

date description

SECTION and **DETAILS**

A-3.0

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application no. 2157

22 OCT 2018 AS SHOWN JP/KG project no. 1347-58

2x8 PT BLOCKING,

"SIMPSON" HI, OR 2-5A

HURRICANE TIE, TYP. -

"SIMPSON" LSCZ ON

EACH STRINGER.—

6x6 PT POST, TYP.-

"SIMPSON" DTT2Z, TYP. —

I/2" CARRIAGE BOLTS W

. ALL WOOD TO BE PRESSURE TREATED.

REVIEW, ALL HARDWARE, INCLUDING

FASTENERS, ANCHORS, ETC.

A-4.0 SCALE: 1/2"= 1'-0"

2. ALL HARDWARE TO BE HEAVY GALVANIZED

(ZMAX BY 'SIMPSON'), OR STAINLESS STEEL.

3. NOT ALL FASTENERS, ANCHORS, ETC. SHOWN

FOR DRAWING CLARITY.

4. CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S

WASHERS and NUTS. LENGTH AS REQ'D., TYP.-

TYP., U.O.N. —



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MITIGATION and REHABILITATION for the

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APPLICATION No. 2157
6 BEACH ROAD WEST
OLD SAYBROOK, CT
06475

NORTH

date description revisions

DECK and
STAIR PLANS
and DETAILS

A-4.0

date 22 OCT 2018
drawn NWF/JP
scale AS SHOWN
checked JP/KG
project no. 1347-58
application no. 2157

ALTERNATE No. 1: PROVIDE NEW OUTDOOR RINSING SHOWER ON ELEVATED DECK. ENCLOSURE WALLS SHALL BE 2x4 PT STUDS at 16" O.C. W EXTERIOR GRADE 1/2" PLYWOOD and VINYL SIDING W ALL TRIMS and ACCESSORIES. PROV. VINYL CAP ON WALL ABOVE. (NO ROOF) PROV. (3) PT 2x8 JOISTS BELOW 2x4 PT WALL FRAMING. RE: 'P' DWGS. FOR ADDITIONAL ALTERNATE SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO PIPING and DRAINAGE. — 4'-8]" 3'-I&" 3'-3<u>\</u>" 19'-54" I. ALL WOOD TO BE PRESSURE TREATED. 2. ALL HARDWARE TO BE HEAVY GALVANIZED (ZMAX BY 'SIMPSON'), OR STAINLESS STEEL. 3. NOT ALL FASTENERS, ANCHORS, ETC. SHOWN FOR DRAWING CLARITY.

4. CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S
REVIEW, ALL HARDWARE, INCLUDING FASTENERS, ANCHORS, ETC.

SECTION THRU DECK / STAIR

REAR I

- PT HANDRAIL, TYP.

— 2x4 PT GUARDRAIL, TYP.

— 2x2 PT BALUSTERS, TYP.

- 4x4 PT RAIL POSTS, TYP.

- 5/4" PT DECKING, TYP.

- 2x8 PT FRAMING, TYP. - IxIO PT TRIM, TYP.

· "SIMPSON"

BCS2-3/6, TYP.

— 6x6 PT POST, TYP.

- CONC. BASE, TYP.

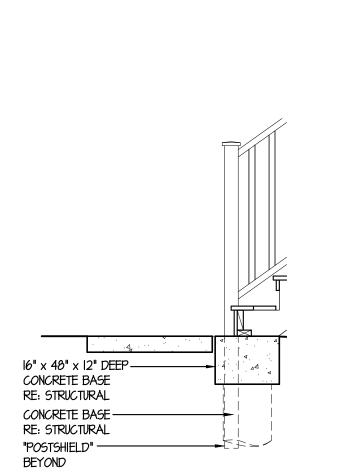
RE: 'S' DWGS.

TYPICAL STAIR SECTION

NOTE I - HANDRAIL MIN. HEIGHT 34" - MAX HEIGHT 38"
NOTE 2 - GUARDRAIL MIN. HEIGHT 36"
HANDRAIL TO BE LOCATED MIN. I-I/2" BELOW GUARDRAIL

A-4.0 SCALE: 1/2"= 1'-0"







NORTH

REAR DECK and STAIR DECKING / FRAMING PLAN

THANDRAIL, TYP.

24 PT CHANDRAIL, TYP.

24 PT RAIL POSTS, TYP.

44 PT RAIL POSTS, TYP.

12-17

12-17

13-31

14-61

15-17

NOTES:

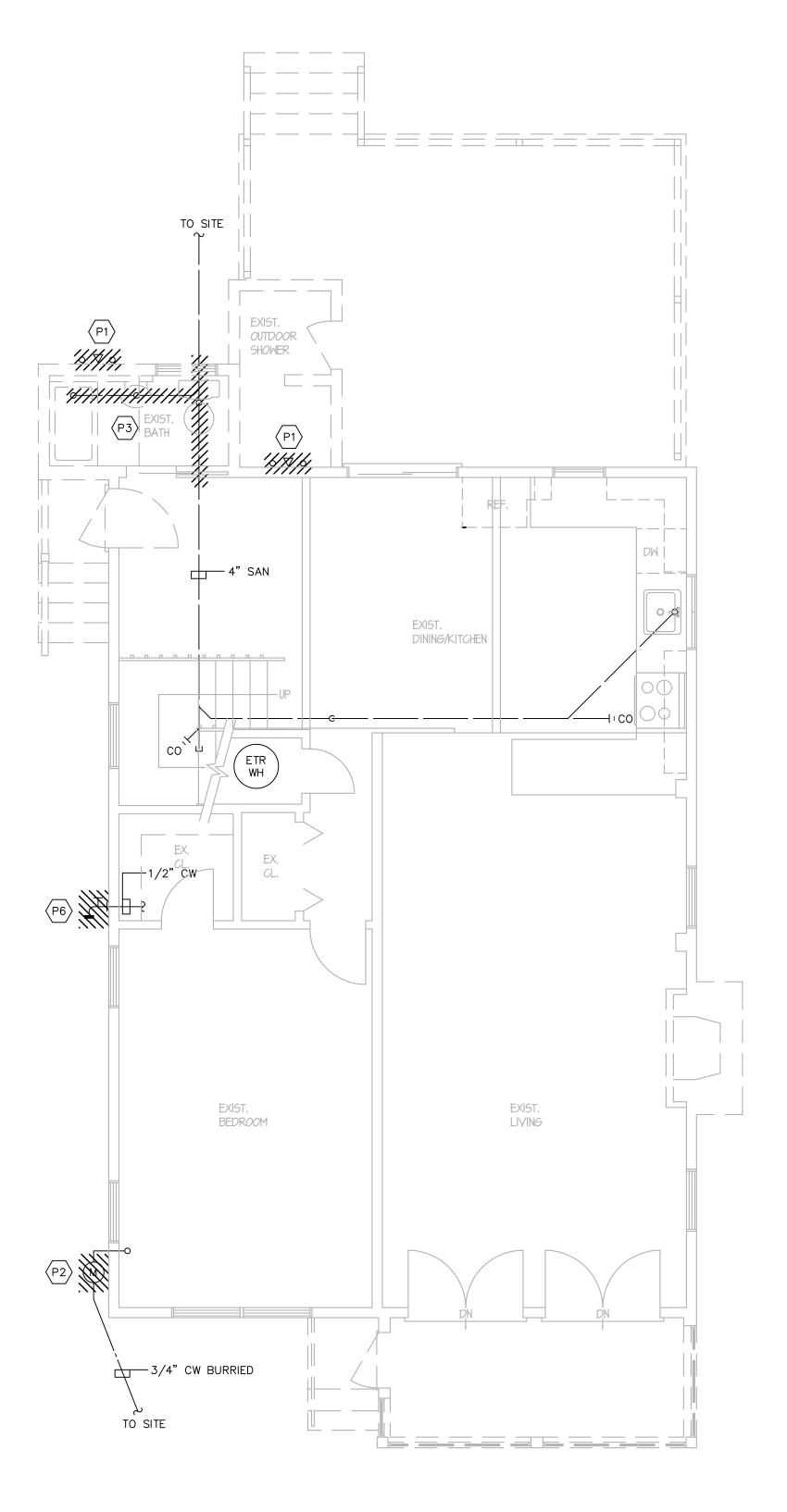
1. ALL WOOD TO BE PRESSURE TREATED.

2. ALL HARDWARE TO BE HEAVY GALVANIZED (ZMAX BY 'SIMPSON'), OR STAINLESS STEEL.

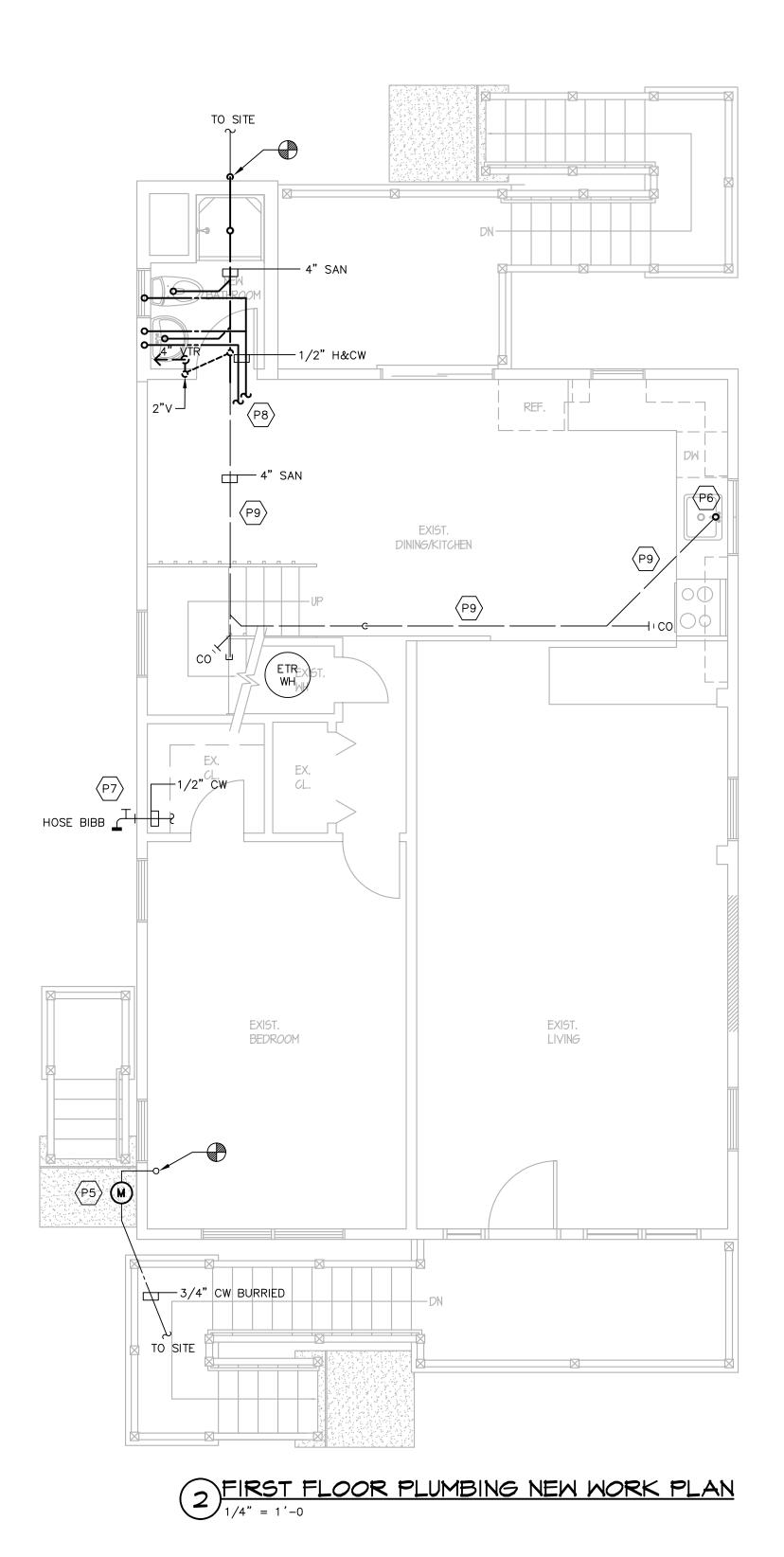
3. NOT ALL FASTENERS, ANCHORS, ETC. SHOWN FOR DRAWING CLARITY.

4. CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S REVIEW, ALL HARDWARE, INCLUDING

A-4.0 SCALE: 1/2"= 1'-0"



FIRST FLOOR PLUMBING DEMO PLAN



GENERAL NOTES ALL TRADES

- PLUMBING ITEMS INCLUDING BUT NOT LIMITED TO PIPING, EQUIPMENT, ETC SHALL BE INSTALLED ABOVE THE FLOOD PLANE AS DETERMINED BY THE ARCHITECTURAL PLANS.
- 2. WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS INCLUDING ACCESS PANELS FOR VALVES AND EQUIPMENT, ETC.

PLUMBING KEY NOTES

- P1 REMOVE EXISTING EXTERIOR SHOWER HEAD AND ASSOCIATED PIPING.
- P2 REMOVE EXISTING WATER METER.
- REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING WITHIN BATHROOM. RECONNECT NEW PIPING AS SHOWN ON NEW WORK PLAN.
- P4 CUT SANITARY PIPING WITHIN CRAWL SPACE TO ALLOW FOR EXTENSION.
- P5 PROVIDE NEW WATER METER, EXTENDING PIPING TO NEW FIRST FLOOR LEVEL AND RE-CONNECT TO EXISTING CW PIPING.
- P6 REMOVE EXISTING HOSE BIBB. PREPARE FOR CONNECTION OF NEW PIPING AND HOSE BIBB.
- P7) PROVIDE NEW HOSEBIBB, PIPE EXTENSION, AND LOW POINT DRAIN PER DETAIL 1/P-5.0.
- P8 PROVIDE NEW H&CW PIPING FOR NEW BATHROOM. RECONNECT TO EXISTING PIPING WITHIN HOUSE.
- REWORK EXISTING SANITARY WASTE PIPING SO THAT PIPING IS PITCHED PROPERLY AT 17 PER 17-0". PROVIDE NEW HANGERS AND SUPPORTS AS NECESSARY TO CORRECT.



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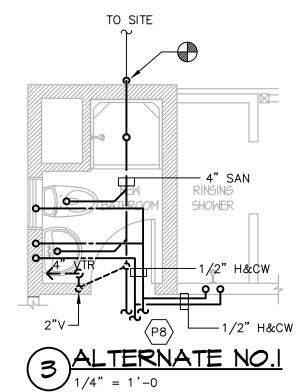
MITIGATION and
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date description n

PLUMBING PLANS

P-1.0

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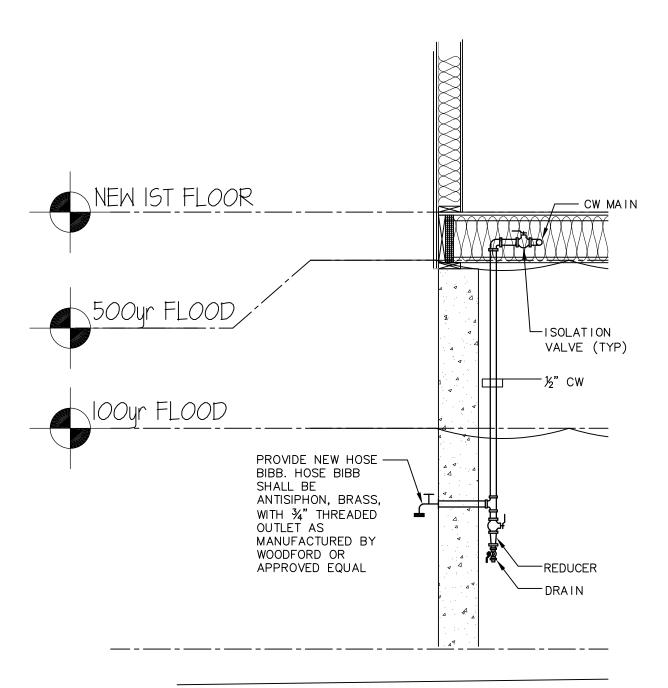
PLUMBING PIPING LEGEND SYMBOL DESCRIPTION ----- NEW CW BURRIED NEW CW EXISTING CW ----- NEW SAN BURRIED NEW SAN EXISTING SAN NEW HW ——-- EXISTING HW NEW NG EXISTING NG ----- NEW V EXISTING V ______ ---- DETAIL LINE 90. ETBOM DOMN 90. ETBOM Nb TEE UP TEE DOWN DROP AND RUN TEE OFF TOP OF PIPE TEE OFF BOTTOM OF PIPE CLEANOUT FLOOR CLEANOUT ____

PLUMBING SYMBOL LEGEND						
SYMBOL	DESCRIPTION					
M	WATER METER					
	THERMOMETER					
	PRESSURE REGULATOR	6				
	CONNECT NEW TO EXISTING					
F, 0	VENT THRU ROOF					
GM	GAS METER					

HOSE BIBB

PLUMBING ABBREVIATIONS

		7. PERMITS AND FEE
ABBREVIATION	DESCRIPTION	OBTAIN ALL PERM FEES WHERE APPI EXTENSIONS IN CO
BTU CO CW	BRITISH THERMAL UNIT CLEANOUT COLD WATER	PREPARE ALL DOG GOVERNMENTAL AI REQUIRED CERTIFI THE OWNER AND PAYMENT FOR THE
DN ET	DOWN EXPANSION TANK	8. SHOP DRAWINGS:
HB HW HWR	HOSE BIBB HOT WATER HOT WATER RECIRCULATION	A. SUBMIT NEWLY OF 1/4"=1'0". FROM THE CO DOCUMENTS O DRAWINGS. S TO THE PROJE
NG TYP V	NATURAL GAS TYPICAL VENT	B. SHOP DRAWING INSTALLATION AND SIMILAR I
VTR	VENT THRU ROOF	a. DIMENSIO
		b. IDENTIFICA



HOSE BIBB CW SUPPLY DETAIL

GENERAL PROCEDURES ALL TRADES THESE SPECIFICATIONS ARE APPLICABLE TO ALL PLUMBING DRAWINGS UNLESS NOTED OTHERWISE.

- A. THIS PROJECT COMPRISES ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING. THE EXISTING BUILDING IS CURRENTLY OCCUPIED AND THE PROJECT WILL PROCEED IN A MANNER WHICH WILL MINIMIZE ANY INCONVENIENCE TO THE
- B. SCOPE OF WORK CONSISTS OF INSTALLATION OF MATERIALS TO BE FURNISHED UNDER THE CONTRACT DOCUMENTS AND WITHOUT LIMITING GENERALITY THEREOF CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT, HOISTING, PLANT, TRANSPORTATION, RIGGING, STAGING, APPURTENANCES, AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN.
- DEFINITIONS: THE FOLLOWING DEFINITIONS APPLY TO THIS CONTRACT
- A. FURNISH: THE TERM "FURNISH" MEANS TO "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
- B. INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
- C. PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- D. REMOVE: THE TERM REMOVE MEANS TO DISCONNECTFROM ITS PRESENT POSITION, REMOVE FROM THE PREMISES AND TO DISPOSE OF IN A LEGAL
- E. SUBSTITUTIONS: "SUBSTITUTIONS" ARE REQUESTS FOR CHANGES IN PRODUCTS, MATERIALS AND METHODS OF CONSTRUCTION AS PROPOSED BY THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- A. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK OUTLINED ON THESE CONTRACT DOCUMENTS. THE CONTRACTOR IS TO NOTE THAT THESE DOCUMENTS ARE DIAGRAMMATIC ONLY AND THAT FINAL PLACEMENT OF EQUIPMENT OR DEVICES IN THE FIELD MAY NOT DIRECTLY CORRESPOND TO THAT WHICH IS SHOWN ON THE DRAWINGS. IF A CONFLICT IN POSITIONING OCCURS THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY TO ASCERTAIN WHAT THE INTENT WAS BY THE DESIGN PROFESSIONAL.
- 5. SURVEY AND MEASUREMENTS:

DESCRIPTION

- A. PRIOR TO SUBMITTING BID. VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE ITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
- B. DO NOT SCALE DRAWINGS. SCALE INDICATED ON DRAWINGS IS FOR ESTABLISHING REFERENCE POINTS ONLY. ACTUAL FIELD CONDITIONS SHALL GOVERN ALL DIMENSIONS.
- C. PRIOR TO ORDERING ANY MATERIALS AND EQUIPMENT, THOROUGHLY REVIEW THE SITE CONDITIONS TO DETERMINE IF ADEQUATE CLEARANCES AND ACCESS IS ALLOWED TO INSTALL THE COMPONENTS. ORDER EQUIPMENT BROKEN DOWN AS NECESSARY TO ALLOW FOR PROPER RIGGING THROUGH THE PROJECT AREA. PROVIDE ALL NECESSARY ALTERATIONS TO THE STRUCTURE OF THE BUILDING AS NECESSARY TO RIG THE EQUIPMENT IN PLACE.
- D. ARRANGE INSTALLATION TO PROVIDE ACCESS TO EQUIPMENT FOR EASY MAINTENANCE AND REPAIR.
- . CODES AND STANDARDS: ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STATE OF CONNECTICUT ACCEPTED VERSION OF THE FOLLOWING
- A. INTERNATIONAL RESIDENTIAL CODE
- B. INTERNATIONAL BUILDING CODE
- C. INTERNATIONAL PLUMBING CODE
- D. INTERNATIONAL MECHANICAL CODE
- E. NATIONAL ELECTRIC CODE (NFPA 70)
- F. THE LIFE SAFETY CODE (NFPA 101)
- PERMITS AND FEES: THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS; AND PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE WORK, FILE ALL NECESSARY DRAWINGS. PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK, AND DELIVER A COPY TO THE OWNER AND ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
- A. SUBMIT NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE OF 1/4"=1'0". HIGHLIGHT, ENCIRCLE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS
- B. SHOP DRAWINGS INCLUDE EQUIPMENT SUBMITTALS, FABRICATION AND INSTALLATION DRAWINGS, SETTING DIAGRAMS, SCHEDULES, PATTERNS, TEMPLATES AND SIMILAR DRAWINGS. INCLUDE THE FOLLOWING INFORMATION: a. DIMENSIONS.
- b. IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED.
- c. COMPLIANCE WITH SPECIFIED STANDARDS AND PERFORMANCE DATA AS
- d. NOTATION OF COORDINATION REQUIREMENTS.
- e. NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT. f. SUBMIT 3 BLACK-LINE PRINTS AND 2 ADDITIONAL PRINTS WHERE REQUIRED FOR MAINTENANCE MANUALS, PLUS THE NUMBER OF PRINTS NEEDED BY THE ENGINEER FOR DISTRIBUTION. ONE PRINT WILL BE RETAINED; THE REMAINDER RETURNED. ONE OF THE PRINTS RETURNED SHALL BE MARKED-UP AND MAINTAINED AS A "RECORD DOCUMENT"
- g. DO NOT USE SHOP DRAWINGS WITHOUT AN APPROPRIATE FINAL STAMP INDICATING ACTION TAKEN IN CONNECTION WITH CONSTRUCTION.
- h. DO NOT ORDER ANY MATERIALS OR EQUIPMENT PRIOR TO RECEIVING FINAL APPROVED SHOP DRAWINGS.
- i. PROVIDE SUBMITTALS AS INDICATED IN SPECIFIC SPECIFICATION SECTIONS. 9. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER
- 10. THE CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF SERVICES AND LIMITATIONS OF ACCESS WITH THE OWNER NO LESS THAN 5 DAYS PRIOR TO THE INTERRUPTION.
- 11. OPERATION AND MAINTENANCE A. UPON COMPLETION OF ALL WORK AND TESTS, THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION. ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. THI

CONTRACTOR SHALL GIVE AT LEAST SEVEN (7) DAYS NOTICE TO THE OWNER

- AND THE ENGINEER IN ADVANCE OF THIS PERIOD. B. THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A COMPLETE OPERATION AND MAINTENANCE MANUAL, BOUND IN BOOKLET FORM. ORGANIZE OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. BIND PROPERLY INDEXED DATA IN INDIVIDUAL HEAVY-DUTY 3-RING VINYL-COVERED BINDERS. WITH POCKET FOLDERS FOR FOLDED SHEET NFORMATION AND DESIGNATION PARTITIONS WITH IDENTIFICATION TABS. MARK
- APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER. C. OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE THE FOLLOWING: a. MANUFACTURER'S PRINTED OPERATING AND MAINTENANCE PROCEDURES.
- b. MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND
- c. COPIES OF WARRANTIES.
- d. APPROVED SHOP DRAWINGS AND PRODUCT DATA.
- e. BALANCE REPORTS.
- f. INCLUDE IN THE MANUAL, A TABULATED EQUIPMENT SCHEDULE FOR ALL EQUIPMENT. SCHEDULE SHALL INCLUDE PERTINENT DATA SUCH AS: MAKE, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, NORMAL OPERATING CURRENT, BELT SIZE, FILTER QUANTITIES AND SIZES, BEARING NUMBER, ETC SCHEDULE SHALL INCLUDE MAINTENANCE TO BE DONE AND FREQUENCY.
- g. MAINTENANCE AND INSTRUCTION MANUALS SHALL BE SUBMITTED TO THE OWNER AT THE SAME TIME AS THE SEVEN (7) DAY NOTICE IS GIVEN PRIOR TO THE INSTRUCTION PERIOD.

12. AS-BUILT DRAWINGS

- A. PREPARE AS-BUILT DRAWINGS TO A SCALE OF 1/4"=1'-0" OR LARGER; DETAILING THE ACTUAL INSTALLATION OF MAJOR ÉLEMENTS, COMPONENTS, AND SYSTEMS OF MECHANICAL EQUIPMENT AND MATERIALS. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE AS-BUILT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER
- B. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS.
- C. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE
- D. ORGANIZE AS-BUILT DRAWINGS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET.

13. OBTAIN IN OWNER'S NAME WRITTEN EQUIPMENT AND MATERIAL WARRANTIES OFFERED

- IN MANUFACTURER'S PUBLISHED PRODUCT DATA WITHOUT EXCLUSION OR LIMITATION. 14. GUARANTEE WORK OF THESE CONTRACT DOCUMENTS IN WRITING FOR NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL NOTICE OF ACCEPTANCE. REPAIR OR REPLACE DÈFÉCTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT
- DEVELOP WITHIN THIS PERIOD, PROMPT AND TO OWNER'S SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITHIN CONTRACT PRICE.
- MEANS AND METHODS ALL TRADES 1. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S

15. SUBMIT TO THE OWNER AN OFFICIAL CERTIFICATE OF INSURANCE FOR THEIR

- RECOMMENDATIONS 2. DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE OWNER'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE AND DISPOSE OF ALL WASTE MATERIALS, PACKAGING MATERIAL, SKIDS ETC. FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER IN ACCORDANCE WITH MUNICIPAL, STATE AND FEDERAL REGULATIONS.
- 3. MATERIALS AND EQUIPMENT SHALL BE UL LISTED WHERE STANDARD HAS BEEN ESTABLISHED.
- 4. CAREFULLY INSPECT ALL BUILDING ELEMENTS PRIOR TO CUTTING OR DRILLING INTO WALL. FLOORS OR CEILINGS. PATCH AND PAINT SURFACES DISTURBED BY WORK UNDER THIS CONTRACT AS REQUIRED TO RESTORE THEM TO THEIR ORIGINAL
- 5. SCAFFOLDING, RIGGING, HOISTING: THE CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES ANY EQUIPMENT AND APPARATUS FURNISHED UNDER THIS DIVISION. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED. 6. EXCAVATION AND BACKFILLING: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO
- EXCAVATION WORK REQUIRED UNDER THESE SPECIFICATIONS 7. WATERPROOFING: WHERE ANY WORK PIERCES WATERPROOFING, INCLUDING WATERPROOF CONCRETE, ROOFS, EXTERIOR WALL AND FLOORS IN WET AREAS, THE METHOD OF INSTALLATION SHALL BE REVIEWED BY THE ENGINEER BEFORE WORK IS DONE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY SLEEVES. CAULKING AND

FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERTIGHT

COORDINATE SIZES, DEPTHS, FILL AND BEDDING REQUIREMENTS AND ANY OTHER

- 8 PROVIDE FIRESTOPPING AROUND ALL FIRE PROTECTION PLUMBING MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS. PROVIDE ASBESTOS FREE FIRESTOPPING SYSTEM CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME AND GASES. SYSTEM SHALL BE UL LISTED AND COMPLY WITH ASTM E 814.
- 9. ACCESS DOORS SHALL BE PROVIDED IN CEILINGS, WALLS AND FLOORS AT ALL DAMPERS, VALVES, CONTROL DEVICES, AND OTHER APPARATUS AND EQUIPMENT REQUIRING PERIODIC SERVICE AND INSPECTION. COORDINATE TYPE AND LOCATION WITH ARCHITECTURAL PLANS.
- 10. SEISMIC RESTRAINTS SHALL BE INSTALLED AS REQUIRED PER BUILDING CODE AND FIRE SAFETY CODE. RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND SMACNA STANDARDS. SUBMIT SHOP DRAWINGS INCLUDING SEISMIC CALCULATIONS WITH PROFESSIONAL ENGINEER'S SEAL FOR REVIEW BY ENGINEER.
- A. DOMESTIC WATER PIPING SHALL BE COPPER TUBING TYPE L. SOLDER FILLER METALS SHALL BE 95-5 TIN-ANTIMONY SOLDER JOINTS.
- B. WASTE AND VENT PIPING SHALL BE PVC, TYPE DWV PIPE AND FITTINGS WITH SOLVENT CEMENTED JOINTS.
- . WASTE AND VENT PIPING SHALL BE HUBLESS, SERVICE WEIGHT, CAST-IRON SOIL PIPE AND FITTINGS, WITH NEOPRENE GASKETS. BURIED PIPING SHALL BE HUB AND SPIGOT FITTINGS. 2. INSULATION:
- A. INSULATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE IECC EXCEPT THAT PIPE INSULATION SHALL NOT BE LESS THAN 1" THICK. ALL INSULATION MATERIALS, ADHESIVES, COATINGS, AND OTHER ACCESSORIES SHALL HAVE FLAME SPREAD RATINGS OF 25 OR LESS, AND SMOKE DEVELOPED RATINGS OF 50 OR LESS AS TESTED BY ASTM E 84 (NFPA 255) METHOD. ALL INSULATION MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA AND ASHRAE STANDARDS.
- B. PIPE INSULATION SHALL BE FIBERGLASS WITH VAPOR BARRIER JACKET. PROVIDE INSULATION FOR THE FOLLOWING PIPING SYSTEMS: a. DOMESTIC COLD WATER PIPING
- b. DOMESTIC HOT WATER PIPING C. ALL EXPOSED DOMESTIC WATER PIPE SHALL BE WRAPPED WITH A PVC VAPOR

BARRIER JACKET AS MANUFACTURED BY ZESTON OR APPROVED EQUAL. PVC

PIPING INSTALLATION: A. INSTALL PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES AND GOOD

JACKETING SHALL BE FINISHED TO BE WATER TIGHT.

- B. INSTALL UNIONS OR FLANGES IN PIPES ADJACENT TO EACH VALVE, CONTROL DEVICE AND AT FINAL CONNECTIONS EACH PIECE OF EQUIPMENT C. INSTALL DIELECTRIC UNIONS TO JOIN DISSIMILAR METALS.
- D. INSTALL AND ANCHOR PIPING TO ENSURE PROPER EXPANSION AND CONTRACTION.
- E. ANCHOR PIPING TO ENSURE PROPER DIRECTION OF EXPANSION AND CONTRACTION.
- F. SUPPORT PIPING TO PREVENT VIBRATION OR SAGGING. PROVIDE HANGER SPACING ACCORDING TO DISTANCES LISTED IN APPLICABLE CODES AND REGULATIONS.
- 4. PLUMBING IDENTIFICATION A. PLUMBING IDENTIFICATION WORK SHALL COMPLY WITH ANSI A13.1. NAMES, ABBREVIATIONS AND OTHER DESIGNATIONS USED IN MECHANICAL IDENTIFICATION
- WORK, SHALL CORRESPOND WITH DESIGNATIONS SHOWN. SPECIFIED OR
- B. VALVE TAGS SHALL BE 1-1/2' DIAMETER, 19-GAGE POLISHED BRASS WITH STAMP-ENGRAVED LETTERING. ATTACH VALVES IN ACCORDANCE WITH
- MANUFACTURER'S RECOMMENDATIONS. C. PROVIDE VALVE TAG ON EVERY VALVE, EXCLUDING DRAIN VALVES.
- D. PIPE IDENTIFICATION, PLASTIC PIPE MARKERS, FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC. PERFORMED TO FIT AROUND PIPE OR PIPE COVERING, MINIMUM INFORMATION INDICATING FLOW DIRECTION ARROW AND IDENTIFICATION OF FLUID BEING CONVEYED. 5. TESTING AND. ADJUSTING
- A. ALL WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. THE SYSTEM SHALL BE PROVED TIGHT UNDER WATER PRESSURE OF 100 PSIG. THE PRESSURE SHALL BE APPLIED GRADUALLY AND THEN HELD FOR A MINIMUM OF TWO HOURS.
- B. ALL WASTE PIPING SHALL BE TESTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. THE SYSTEM SHALL BE FILLED WITH WATER TO A HEAD OF NOT LESS THAN 10 FEET. THE WATER LEVEL AT THE TOP OF THE TEST HEAD OF WATER SHALL NOT DROP FOR AT LEAST 15 MINUTES.
- C. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR ALL



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

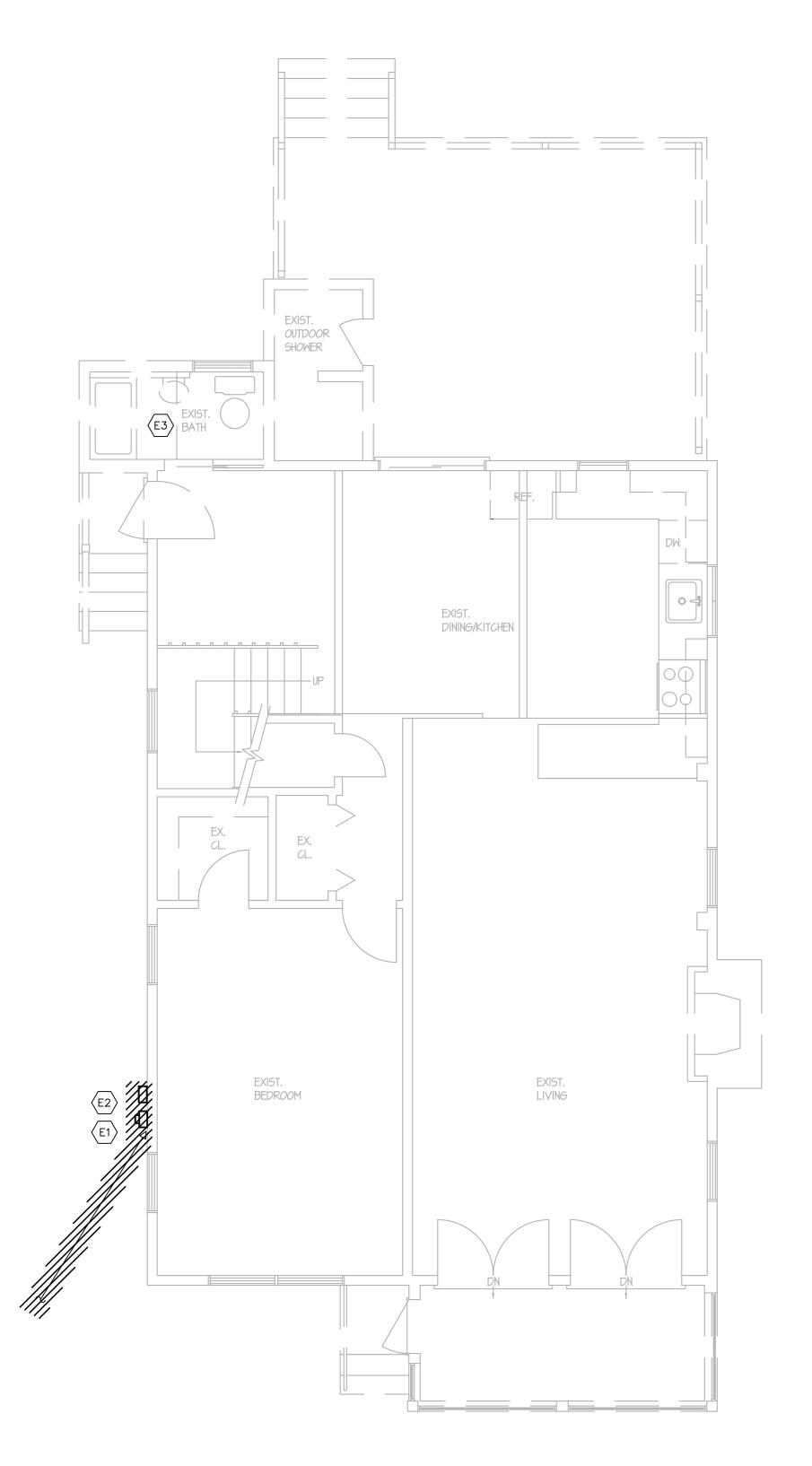
description

PLUMBING SYMBOLS, **SPECIFICATIONS** & DETAILS

P-5.0

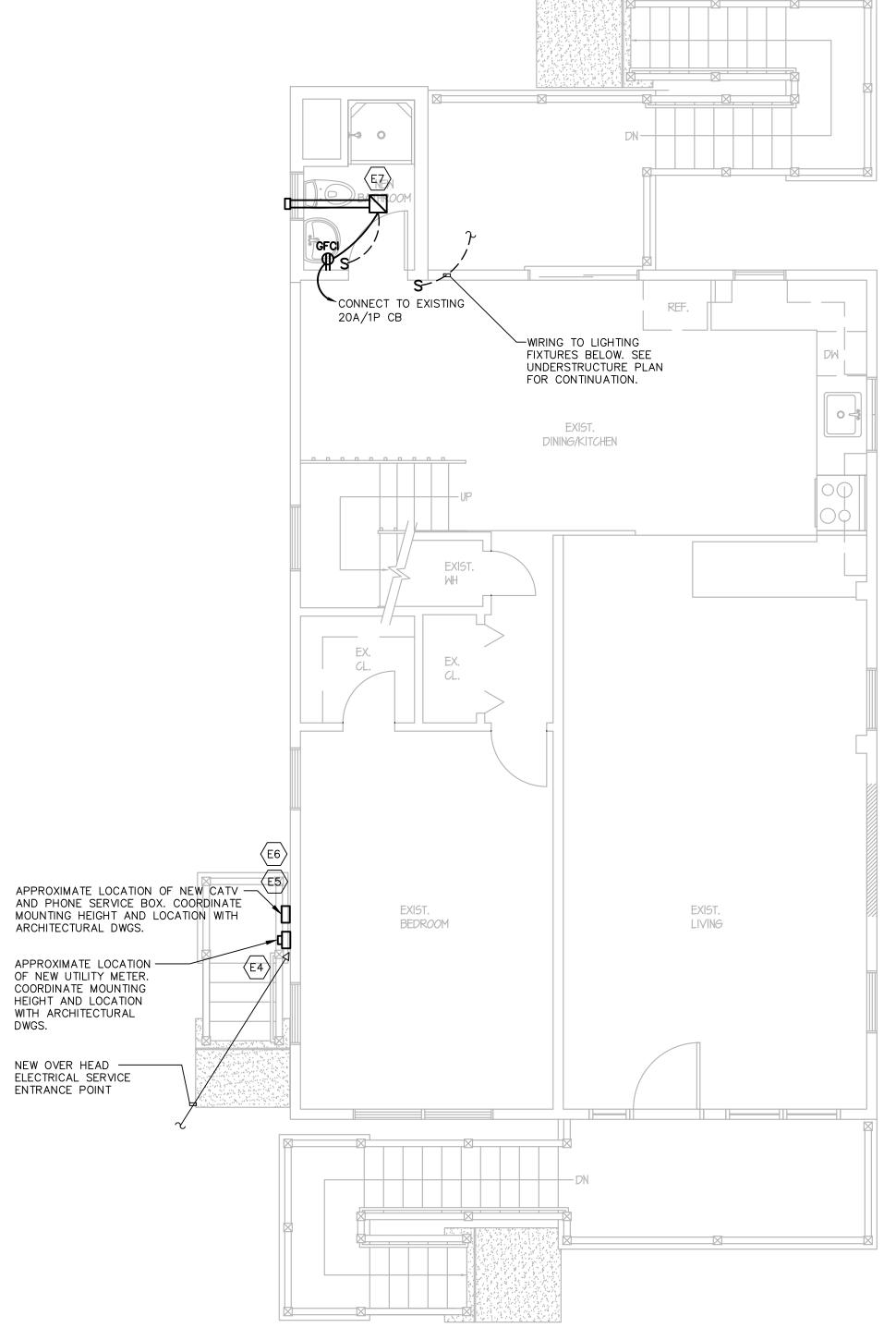
22 OCT 2018 BBP drawn AS SHOWN DTB checked

1347-58 project no. application no. 2157



FIRST FLOOR ELECTRICAL DEMO PLAN

1/4" = 1'-0



PIRST FLOOR ELECTRICAL NEW WORK PLAN

GENERAL NOTES ALL TRADES

- ELECTRICAL ITEMS INCLUDING BUT NOT LIMITED TO WIRING, EQUIPMENT, SWITCHES, OUTLETS, ETC SHALL BE INSTALLED ABOVE THE FLOOD PLANE AS DETERMINED BY THE ARCHITECTURAL PLANS.
- . WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS PRIOR TO PROVIDING ALL EQUIPMENT AND PIPING.
- . CIRCUITS SHALL BE #12 FOR 20A-1P CIRCUIT BREAKERS AND #14 FOR 15A CIRCUIT BREAKERS IN PANEL INDICATED UNLESS NOTED OTHERWISE.

ELECTRICAL KEY NOTES

- REMOVE EXISTING ELECTRICAL METER, WEATHERHEAD, WIRING (FROM WEATHER HEAD TO METER), METER, METER SOCKET. F2 REMOVE EXISTING TELEPHONE & CATV SERVICE.
- REMOVE EXISTING ELECTRICAL DEVICES & FIXTURES WITHIN BATHROOM TO BE DEMOLISHED. PROVIDE NEW DEVICES AND RECONNECT PER NEW WORK PLAN.
- PROVIDE NEW ELECTRIC SERVICE TO THE RESIDENCE. PROVIDE NEW WEATHER HEAD, WRING (FROM WEATHER HEAD TO METER), METER, METER SOCKET, NEW FEEDER & CONNECTION TO MAIN ELECTRICAL PANEL. REFER TO DISTRIBUTION RISER DIAGRAM FOR MORE INFORMATION. COORDINATE WITH THE UTILITY COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A NEW SERVICE.
- NEW TELEPHONE SERVICE SHALL BE PROVIDED. CONNECT TO EXISTING
 TELEPHONE DISTRIBUTION EQUIPMENT AND CABLING. COORDINATE WITH THE
 TELEPHONE COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A
 NEW SERVICE.
- NEW CATV SERVICE SHALL BE PROVIDED. CONNECT TO EXISTING CATV DISTRIBUTION EQUIPMENT AND CABLING. COORDINATE WITH THE CATV COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A NEW SERVICE.
- PROVIDE NEW COMBINATION FAN/LIGHT, PANASONIC WHISPER GREEN SELECT OR APPROVED EQUAL. PROVIDE 4" RIGID GALV. DUCT CONNECTION AND EXTEND THRU EXTERIOR WALL. TERMINATE WITH WEATHERHOOD & BACKDRAFT DAMPER.
- PROVIDE 12-2 WRING AND JUNCTION BOX TO THIS LOCATION. WIRING AND JUNCTION BOX SHALL BE PROTECTED FOR FUTURE USE AND INSTALLATION OF LIGHTING FIXTURE. OWNER SHALL SELECT LIGHTING FIXTURE AND COORDINATE INSTALLATION BASED ON ALLOWANCE PROVIDED UNDER THIS PROJECT. REFER TO PANELBOARD SCHEDULE FOR CKT INFORMATION. REFER TO DWGS FOR WIRING INFORMATION.
- WIRING TO SWITCH LOCATED ON LEVEL ABOVE. SEE FIRST FLOOR PLAN FOR CONTINUATION.



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK **GRANT - DISASTER** RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

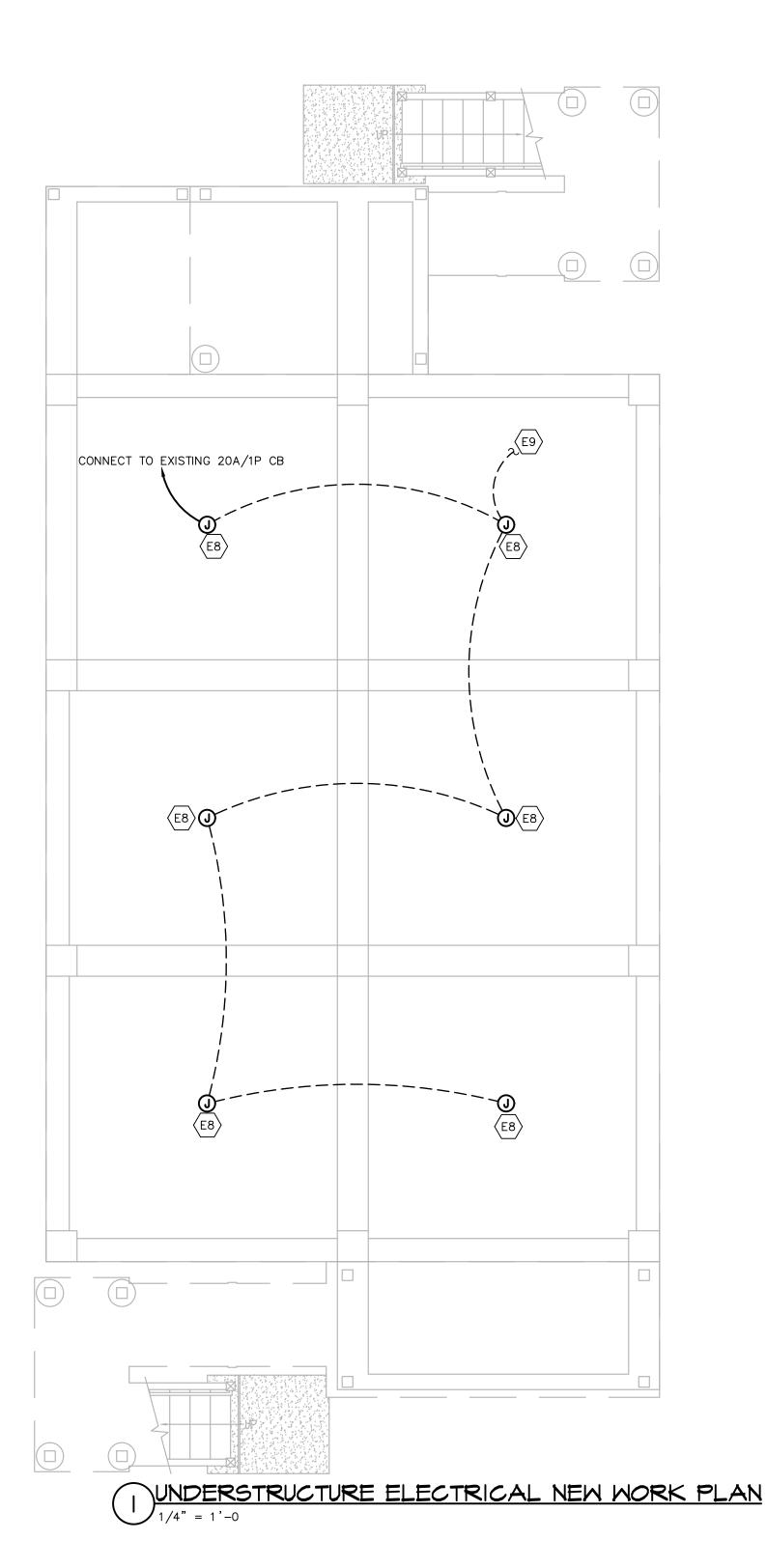
MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

ELECTRICAL **PLANS**

E-1.0

22 *O*CT 2018 BBP drawn scale AS SHOWN

checked DTB project no. |347-58 application no. 2|57





THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK **GRANT - DISASTER** RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM

GENERAL NOTES ALL TRADES

. WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.

ELECTRICAL ITEMS INCLUDING BUT NOT LIMITED TO WIRING, EQUIPMENT, SWITCHES, OUTLETS, ETC SHALL BE INSTALLED ABOVE THE FLOOD PLANE AS DETERMINED BY THE ARCHITECTURAL PLANS.

CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS PRIOR TO PROVIDING ALL EQUIPMENT AND PIPING.

. CIRCUITS SHALL BE #12 FOR 20A-1P CIRCUIT BREAKERS AND #14 FOR 15A CIRCUIT BREAKERS IN PANEL INDICATED UNLESS NOTED OTHERWISE.

REMOVE EXISTING ELECTRICAL METER, WEATHERHEAD, WIRING (FROM WEATHER HEAD TO METER), METER, METER SOCKET.

REMOVE EXISTING ELECTRICAL DEVICES & FIXTURES WITHIN BATHROOM TO BE DEMOLISHED. PROVIDE NEW DEVICES AND RECONNECT PER NEW WORK PLAN.

PROVIDE NEW ELECTRIC SERVICE TO THE RESIDENCE. PROVIDE NEW WEATHER HEAD, WIRING (FROM WEATHER HEAD TO METER), METER, METER SOCKET, NEW FEEDER & CONNECTION TO MAIN ELECTRICAL PANEL. REFER TO DISTRIBUTION RISER DIAGRAM FOR MORE INFORMATION. COORDINATE WITH THE UTILITY COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A NEW SERVICE.

NEW TELEPHONE SERVICE SHALL BE PROVIDED. CONNECT TO EXISTING TELEPHONE DISTRIBUTION EQUIPMENT AND CABLING. COORDINATE WITH THE TELEPHONE COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A NEW SERVICE.

NEW CATV SERVICE SHALL BE PROVIDED. CONNECT TO EXISTING CATV DISTRIBUTION EQUIPMENT AND CABLING. COORDINATE WITH THE CATV COMPANY ALL WORK AND PARTS ASSOCIATED WITH PROVIDING A NEW SERVICE.

PROVIDE NEW COMBINATION FAN/LIGHT, PANASONIC WHISPER GREEN SELECT OR APPROVED EQUAL. PROVIDE 4" RIGID GALV. DUCT CONNECTION AND EXTEND THRU EXTERIOR WALL. TERMINATE WITH WEATHERHOOD & BACKDRAFT DAMPER.

PROVIDE 12-2 WIRING AND JUNCTION BOX TO THIS LOCATION. WIRING AND JUNCTION BOX SHALL BE PROTECTED FOR FUTURE USE AND INSTALLATION OF LIGHTING FIXTURE. OWNER SHALL SELECT LIGHTING FIXTURE AND COORDINATE INSTALLATION BASED ON ALLOWANCE PROVIDED UNDER THIS PROJECT. REFER TO PANELBOARD SCHEDULE FOR CKT INFORMATION. REFER TO DWGS FOR WIRING INFORMATION.

WIRING TO SWITCH LOCATED ON LEVEL ABOVE. SEE FIRST FLOOR PLAN FOR CONTINUATION.

ELECTRICAL KEY NOTES

REMOVE EXISTING TELEPHONE & CATV SERVICE.

MITIGATION and REHABILITATION for the GLANZ RESIDENCE **APPLICATION No. 2157** 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

(OORR)

UNDERSTRUCTURE ELECTRICAL PLAN

E-1.1

22 OCT 2018 BBP drawn AS SHOWN checked project no. |347-58 application no. 2|57

GENERAL PROCEDURES ALL TRADES THESE SPECIFICATIONS ARE APPLICABLE TO ALL PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS UNLESS NOTED OTHERWISE.

- A. THIS PROJECT COMPRISES ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING. THE EXISTING BUILDING IS CURRENTLY OCCUPIED AND THE PROJECT
- WILL PROCEED IN A MANNER WHICH WILL MINIMIZE ANY INCONVENIENCE TO THE BUILDING OCCUPANTS. B. SCOPE OF WORK CONSISTS OF INSTALLATION OF MATERIALS TO BE FURNISHED UNDER THE CONTRACT DOCUMENTS AND WITHOUT LIMITING GENERALITY THEREOF CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT, HOISTING, PLANT, TRANSPORTATION, RIGGING, STAGING, APPURTENANCES, AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL WORK AS SHOWN
- ON THE DRAWINGS AND AS DESCRIBED HEREIN. 3. DEFINITIONS: THE FOLLOWING DEFINITIONS APPLY TO THIS CONTRACT
- A. FURNISH: THE TERM "FURNISH" MEANS TO "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION,
- B. INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
- C. PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."
- D. REMOVE: THE TERM REMOVE MEANS TO DISCONNECTFROM ITS PRESENT POSITION, REMOVE FROM THE PREMISES AND TO DISPOSE OF IN A LEGAL
- E. SUBSTITUTIONS: "SUBSTITUTIONS" ARE REQUESTS FOR CHANGES IN PRODUCTS, MATERIALS AND METHODS OF CONSTRUCTION AS PROPOSED BY THE CONTRACTOR AFTER AWARD OF THE CONTRACT.

A. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK OUTLINED ON THESE CONTRACT DOCUMENTS. THE CONTRACTOR IS TO NOTE THAT THESE DOCUMENTS ARE DIAGRAMMATIC ONLY AND THAT FINAL PLACEMENT OF EQUIPMENT OR DEVICES IN THE FIELD MAY NOT DIRECTLY CORRESPOND TO THAT WHICH IS SHOWN ON THE DRAWINGS. IF A CONFLICT IN POSITIONING OCCURS THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY TO ASCERTAIN WHAT THE INTENT WAS BY THE DESIGN PROFESSIONAL

5. SURVEY AND MEASUREMENTS:

- A. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
- B. DO NOT SCALE DRAWINGS. SCALE INDICATED ON DRAWINGS IS FOR ESTABLISHING REFERENCE POINTS ONLY. ACTUAL FIELD CONDITIONS SHALL GOVERN ALL DIMENSIONS.
- C. PRIOR TO ORDERING ANY MATERIALS AND EQUIPMENT, THOROUGHLY REVIEW THE SITE CONDITIONS TO DETERMINE IF ADEQUATE CLEARANCES AND ACCESS IS ALLOWED TO INSTALL THE COMPONENTS. ORDER EQUIPMENT BROKEN DOWN AS NECESSARY TO ALLOW FOR PROPER RIGGING THROUGH THE PROJECT AREA. PROVIDE ALL NECESSARY ALTERATIONS TO THE STRUCTURE OF THE BUILDING AS NECESSARY TO RIG THE EQUIPMENT IN PLACE.
- D. ARRANGE INSTALLATION TO PROVIDE ACCESS TO EQUIPMENT FOR EASY MAINTENANCE AND REPAIR.
- 6. CODES AND STANDARDS: ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STATE OF CONNECTICUT ACCEPTED VERSION OF THE FOLLOWING
- A. INTERNATIONAL RESIDENTIAL CODE
- B. INTERNATIONAL BUILDING CODE
- C. INTERNATIONAL PLUMBING CODE
- D. INTERNATIONAL MECHANICAL CODE E. NATIONAL ELECTRIC CODE (NFPA 70)
- F. THE LIFE SAFETY CODE (NFPA 101)
- 7. PERMITS AND FEES: THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS; AND PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR FXTENSIONS IN CONNECTION WITH THE WORK FILE ALL NECESSARY DRAWINGS. PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK, AND DELIVER A COPY TO THE OWNER AND ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL

8. SHOP DRAWINGS:

PAYMENT FOR THE WORK.

- A. SUBMIT NEWLY PREPARED INFORMATION. DRAWN TO ACCURATE SCALE OF 1/4"=1'0". HIGHLIGHT, FNCIRCLE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS.
- B. SHOP DRAWINGS INCLUDE EQUIPMENT SUBMITTALS, FABRICATION AND INSTALLATION DRAWINGS, SETTING DIAGRAMS, SCHEDULES, PATTERNS, TEMPLATES
- AND SIMILAR DRAWINGS. INCLUDE THE FOLLOWING INFORMATION: a. DIMENSIONS.
- b. IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED.
- c. COMPLIANCE WITH SPECIFIED STANDARDS AND PERFORMANCE DATA AS
- d. NOTATION OF COORDINATION REQUIREMENTS.
- e. NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT
- f. SUBMIT 3 BLACK-LINE PRINTS AND 2 ADDITIONAL PRINTS WHERE REQUIRED FOR MAINTENANCE MANUALS, PLUS THE NUMBER OF PRINTS NEEDED BY THE ENGINEER FOR DISTRIBUTION. ONE PRINT WILL BE RETAINED: THE REMAINDER RETURNED. SHALL BE MARKED-UP AND MAINTAINED AS A "RECORD DOCUMENT"
- g. DO NOT USE SHOP DRAWINGS WITHOUT AN APPROPRIATE FINAL STAMP INDICATING ACTION TAKEN IN CONNECTION WITH CONSTRUCTION.
- h. DO NOT ORDER ANY MATERIALS OR EQUIPMENT PRIOR TO RECEIVING FINAL APPROVED SHOP DRAWINGS.
- i. PROVIDE SUBMITTALS AS INDICATED IN SPECIFIC SPECIFICATION SECTIONS. 9. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER
- 10. THE CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF SERVICES AND LIMITATIONS OF ACCESS WITH THE OWNER NO LESS THAN 5 DAYS PRIOR TO THE

11. OPERATION AND MAINTENANCE

PERFORMANCE OF THE WORK.

- A. UPON COMPLETION OF ALL WORK AND TESTS, THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. THI CONTRACTOR SHALL GIVE AT LEAST SEVEN (7) DAYS NOTICE TO THE OWNER AND THE ENGINEER IN ADVANCE OF THIS PERIOD.
- B. THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A COMPLETE OPERATION AND MAINTENANCE MANUAL, BOUND IN BOOKLET FORM. ORGANIZE BIND PROPERLY INDEXED DATA IN INDIVIDUAL HEAVY-DUTY 3-RING VINYL-COVERED BINDERS. WITH POCKET FOLDERS FOR FOLDED SHEFT INFORMATION AND DESIGNATION PARTITIONS WITH IDENTIFICATION TABS. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER.
- C. OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE THE FOLLOWING:
 - a. MANUFACTURER'S PRINTED OPERATING AND MAINTENANCE PROCEDURES. b. MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING.
- c. COPIES OF WARRANTIES.
- d. APPROVED SHOP DRAWINGS AND PRODUCT DATA.
- e. BALANCE REPORTS.
- f. INCLUDE IN THE MANUAL, A TABULATED EQUIPMENT SCHEDULE FOR ALL EQUIPMENT. SCHEDULE SHALL INCLUDE PERTINENT DATA SUCH AS: MAKE, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, NORMAL OPERATING CURRENT, BELT SIZE, FILTER QUANTITIES AND SIZES, BEARING NUMBER, ETC SCHEDULE SHALL INCLUDE MAINTENANCE TO BE DONE AND FREQUENCY.
- g. MAINTENANCE AND INSTRUCTION MANUALS SHALL BE SUBMITTED TO THE OWNER AT THE SAME TIME AS THE SEVEN (7) DAY NOTICE IS GIVEN PRIOR TO THE INSTRUCTION PERIOD

12. AS-BUILT DRAWINGS

- A. PREPARE AS-BUILT DRAWINGS TO A SCALE OF 1/4"=1'-0" OR LARGER: DETAILING THE ACTUAL INSTALLATION OF MAJOR ÉLEMENTS, COMPONENTS, AND SYSTEMS OF MECHANICAL EQUIPMENT AND MATERIALS. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE AS-BUILT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER
- B. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS.
- C. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. D. ORGANIZE AS-BUILT DRAWINGS INTO MANAGEABLE SETS, BIND WITH DURABLE
- PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER

13. OBTAIN IN OWNER'S NAME WRITTEN EQUIPMENT AND MATERIAL WARRANTIES OFFERED

- IN MANUFACTURER'S PUBLISHED PRODUCT DATA WITHOUT EXCLUSION OR LIMITATION. 14 GUARANTEE WORK OF THESE CONTRACT DOCUMENTS IN WRITING FOR NOT LESS. THAN ONE (1) YEAR FROM DATE OF FINAL NOTICE OF ACCEPTANCE. REPAIR OR REPLACE DEFÉCTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT DEVELOP WITHIN THIS PERIOD, PROMPT AND TO OWNER'S SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITHIN CONTRACT PRICE.
 - 15. SUBMIT TO THE OWNER AN OFFICIAL CERTIFICATE OF INSURANCE FOR THEIR
 - MEANS AND METHODS ALL TRADES 1. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
 - 2. DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE OWNER'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE AND DISPOSE OF ALL WASTE MATERIALS, PACKAGING MATERIAL, SKIDS ETC. FROM THE SITE AND DISPOSI OF IN A LAWFUL MANNER IN ACCORDANCE WITH MUNICIPAL, STATE AND FEDERAL
 - 3. MATERIALS AND EQUIPMENT SHALL BE UL LISTED WHERE STANDARD HAS BEEN
 - 4. CAREFULLY INSPECT ALL BUILDING ELEMENTS PRIOR TO CUTTING OR DRILLING INTO WALL, FLOORS OR CEILINGS. PATCH AND PAINT SURFACES DISTURBED BY WORK UNDER THIS CONTRACT AS REQUIRED TO RESTORE THEM TO THEIR ORIGINAL
 - 5. SCAFFOLDING, RIGGING, HOISTING: THE CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES ANY EQUIPMENT AND APPARATUS FURNISHED UNDER
 - THIS DIVISION. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED. 6. EXCAVATION AND BACKFILLING: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE SIZES, DEPTHS, FILL AND BEDDING REQUIREMENTS AND ANY OTHER EXCAVATION WORK REQUIRED UNDER THESE SPECIFICATIONS
 - 7. WATERPROOFING: WHERE ANY WORK PIERCES WATERPROOFING, INCLUDING WATERPROOF CONCRETE, ROOFS, EXTERIOR WALL AND FLOORS IN WET AREAS, THE METHOD OF INSTALLATION SHALL BE REVIEWED BY THE ENGINEER BEFORE WORK I

THE CONTRACTOR SHALL FURNISH ALL NECESSARY SLEEVES, CAULKING AND

8. PROVIDE FIRESTOPPING AROUND ALL FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS. PROVIDE ASBESTOS FREE FIRESTOPPING SYSTEM CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME AND GASES. SYSTEM SHALL BE UL LISTED AND COMPLY

FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERTIGHT

- 9. ACCESS DOORS SHALL BE PROVIDED IN CEILINGS, WALLS AND FLOORS AT ALL DAMPERS, VALVES, CONTROL DEVICES, AND OTHER APPARATUS AND EQUIPMENT REQUIRING PERIODIC SERVICE AND INSPECTION. COORDINATE TYPE AND LOCATION WITH ARCHITECTURAL PLANS.
- 10. SEISMIC RESTRAINTS SHALL BE INSTALLED AS REQUIRED PER BUILDING CODE AND FIRE SAFETY CODE. RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND SMACNA STANDARDS. SUBMIT SHOP DRAWINGS INCLUDING SEISMIC CALCULATIONS WITH PROFESSIONAL ENGINEER'S SEAL FOR REVIEW BY ENGINEER.

ELECTRICAL SPECIFICATIONS

- 1. CONTACT THE POWER COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE SERVICE INSTALLATION. PROVIDE ALL NECESSARY EQUIPMENT, GROUNDING, CONDUITS, WIRE TRENCHING, SAND AND BACKFILL ETC., FOR THE POWER COMPANY SERVICE CONNECTIONS AND ACTIVATION OF SERVICE FOR THE PROJECT. ALL EQUIPMENT SHALL MEET THE POWER COMPANIES REQUIREMENTS AND SHALL BE SUBMITTED TO THE POWER COMPANY PRIOR TO ORDERING OR INSTALLATION.
- 2. CONTACT THE TELEPHONE COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE SERVICE INSTALLATION. PROVIDE ALL BOXES, TERMINATIONS, CONDUITS AND WIRING PER
- 3. CONTACT THE CABLE TELEVISION COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE SERVICE NSTALLATION. PROVIDE ALL BOXES, TERMINATION, CONDUITS AND WIRING PER
- 4. SERVICE-DISCONNECTING MEANS SHALL BE OF THE TYPE AS INDICATED WITH EXTERNAL HANDLE FOR MANUAL OPERATION. WHEN SERVICE DISCONNECTING MEANS IS A PART OF AN ASSEMBLY, THE ASSEMBLY SHALL BE LISTED AS SUITABLE FOR SERVICE ENTRANCE EQUIPMENT. ENCLOSURES SHALL BE SHEET METAL WITH HINGED COVER FOR SURFACE MOUNTING UNLESS OTHERWISE INDICATED.
- PANELBOARD/LOAD CENTER: A. PROVIDE CIRCUIT BREAKER TYPE PANELBOARD/LOAD CENTER WITH BUS RATING
- AS INDICATED ON DRAWINGS. B. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 10,000A RMS SYMMETRICAL.
- C. MOLDED CASE CIRCUIT BREAKER: NEMA AB. PLUG ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLES PER POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKER AS INDICATED ON DRAWINGS, ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS.
- D. ENCLOSURE: GENERAL PURPOSE.
- E. BOX: FLUSH TYPE WITH DOOR AND PULL RING LATCH, FINISH IN MANUFACTURER STANDARD GRAY ENAME
- 6. MOUNT PANELBOARDS, CIRCUIT BREAKERS, AND DISCONNECTING SWITCHES SO HEIGHT OF OPERATING HANDLE AT ITS HIGHEST POSITION IS MAXIMUM 78 INCHES
- 7. ALL BACKBOARDS SHALL UTILIZE FIRE RETARDANT 3/4 INCH PLYWOOD, SIZED AS INDICATED ON THE DRAWINGS.
- 8. GROUNDING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70. A. GROUND EXPOSED, NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, GROUNDING

CONDUCTOR OF NONMETALLIC SHEATHED CABLES, AND NEUTRAL CONDUCTOR OF

- B. MAKE GROUND CONNECTION AT MAIN SERVICE EQUIPMENT, AND EXTEND GROUNDING CONDUCTOR TO POINT OF ENTRANCE OF METALLIC WATER SERVICE MAKE CONNECTION TO WATER PIPE BY SUITABLE GROUND CLAMP WITH METER JUMPER OR LUG CONNECTION TO PLUGGED TEE. IF FLANGED PIPES ARE ENCOUNTERED. MAKE CONNECTION WITH LUG BOLTED TO STREET SIDE OF FLANGED CONNECTION. SUPPLEMENT METALLIC WATER SERVICE GROUNDING SYSTEM WITH ADDITIONAL MADE ELECTRODE IN COMPLIANCE WITH NFPA 70. MAKE GROUND CONNECTION TO DRIVEN GROUND RODS ON EXTERIOR OF BUILDING. GROUND RODS SHALL BE OF COPPER-CLAD STEEL CONFORMING TO UL 467 NOT LESS THAN 19.1 MM (3/4 INCH) IN DIAMETER BY 2.4 METER (8 EET) IN LENGTH OF THE SECTIONÀL TYPE DRIVEN FULL LENGTH INTO THE
- EARTH WHERE GROUND FAULT PROTECTION IS EMPLOYED, ENSURE THAT CONNECTION OF GROUND AND NEUTRAL DOES NOT INTERFERE WITH CORRECT OPERATION OF FAULT PROTECTION. 8. WIRING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70.
- A. CONDUCTORS NO. 8 AWG AND LARGER DIAMETER SHALL BE STRANDED ANNEALED COPPER. CONDUCTORS NO. 10 AWG AND SMALLER DIAMETER SHAL BE SOLID ANNEALED COPPER. CONDUCTOR SIZES AND AMPACITIES SHOWN ARE BASED ON COPPER, UNLESS INDICATED OTHERWISE. UNLESS SPECIFIED OR INDICATED OTHERWISE OR REQUIRED BY NFPA 70. UNLESS OTHERWISE INDICTED WIRING METHODS SHALL BE:
- a. SERVICE ENTRANCE WIRING AND WIRING TO DISTRIBUTION PANELS. WIRES SHALL BE IN PVC CONDUIT AND SHALL BE 600-VOLT, TYPE THWN/THHN ANNEALED COPPER.
- b. BRANCH CIRCUITING INSIDE THE BUILDING IN DRY AREAS SHALL BE 600
- VOLT, TYPE NM-B. c. BRANCH CIRCUITING OUTSIDE THE BUILDING AND IN WET/DAMP AREAS SHALL BE 600 VOLT, TYPE UF-B.
- d. WIRES SUBJECT TO DAMAGE SHALL BE IN PVC CONDUIT. B. MAKE ALL SPLICES IN ACCESSIBLE LOCATIONS. MAKE SPLICES IN CONDUCTORS NO. 10 AWG AND SMALLER DIAMETER WITH INSULATED, PRESSURE-TYPE CONNECTOR. MAKE SPLICES IN CONDUCTORS NO. 8 AWG AND LARGER DIAMETER WITH SOLDERLESS CONNECTOR, AND COVER WITH INSULATION
- PHASE CONDUCTORS SHALL BE IDENTIFIED BY COLOR CODING. THE COLOR OF THE INSULATION ON PHASES A AND B RESPECTIVELY (FOR SINGLE PHASE) OF DIFFERENT VOLTAGE SYSTEMS SHALL BE AS FOLLOWS: 120/240 VOLT, SINGLE/PHASE: BLACK AND RED.
- BOXES: A. ALL OUTLETS, SWITCH AND JUNCTION BOXES SHALL BE NONMETALLIC BOXES. B. BOXES SHALL BE SIZED IN ACCORDANCE WITH NFPA 70
- C. EXTERIOR BOXES SHALL BE GASKETED AND WATERTIGHT. 10. OUTLETS AND SWITCHES:
- A. ALL OUTLETS AND SWITCHES SHALL BE WHITE.

MATERIAL EQUIVALENT TO CONDUCTOR INSULATION.

- B. MOUNT LIGHTING SWITCHES 48 INCHES ABOVE FINISHED FLOOR, RECEPTACLES 18 INCHES ABOVE FINISHED FLOOR, AND OTHER DEVICES AS INDICATED. MEASURE MOUNTING HEIGHTS OF WIRING DEVICES AND OUTLETS TO TOP OF
- SINGLE AND DUPLEX RECEPTACLES SHALL BE RATED 15 AMPERES, 125 VOLTS, TWO-POLE, THREE-WIRE, GROUNDING TYPE WITH POLARIZED PARALLEL SLOTS. RECEPTACLE SHALL BE SIDE OR BACK WIRED WITH TWO SCREWS PER TERMINAL. THE THIRD GROUNDING POLE SHALL BE CONNECTED TO THE METAL
- RECEPTACLE SHALL BE PROVIDED WITH A SEPARATE TERMINAL. ONLY THE TOP RECEPTACLE OF A DUPLEX RECEPTACLE SHALL BE WIRED FOR SWITCHING APPLICATION. RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTERS SHALL HAVE THE CURRENT RATING AS INDICATED, AND SHALL BE UL CLASS A TYPE UNLESS OTHERWISE SHOWN. GROUND FAULT CIRCUIT PROTECTION SHALL BE PROVIDED

a. SWITCHED RECEPTACLES SHALL BE THE SAME AS OTHER RECEPTACLES SPECIFIED EXCEPT THAT THE UNGROUNDED POLE OF EACH SUITABLE

). WEATHERPROOF RECEPTACLES SHOWN SHALL BE MOUNTED IN A BOX WITH A

AS REQUIRED BY NFPA 70 AND AS INDICATED ON THE DRAWINGS.

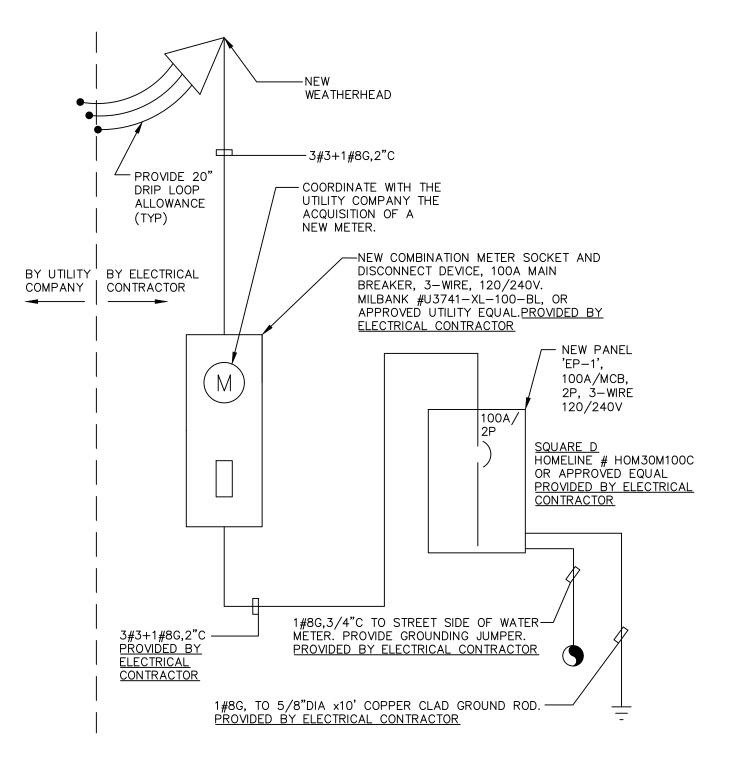
- GASKETED, WEATHERPROOF, WATERPROOF COVER PLATE AND GASKETED CAP OVER EACH RECEPTACLE OPENING. E. WALL SWITCHES SHALL BE OF THE TOTALLY ENCLOSED TUMBLER TYPE. WIRING TERMINALS SHALL BE OF THE SCREW TYPE OR OF SOLDERLESS PRESSURE
 - F. DIMMING SWITCHES SHALL BE SLIDE TYPE, SOLID-STATE, FLUSH MOUNTED, AND SIZED FOR THE LOADS.

TYPE HAVING SUITABLE CONDUCTOR-RELEASE ARRANGEMENT. SWITCHES SHALL

RATED 15 AMPERE 120/277-VOLT FOR USE ON ALTERNATING CURRENT

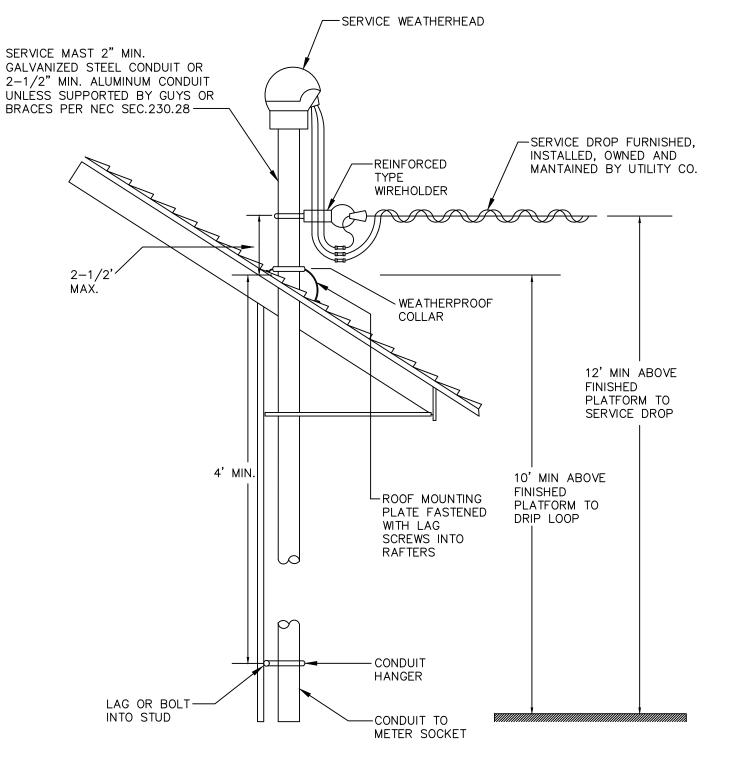
- G. DEVICE PLATES SHALL BE ONE—PIECE TYPE AND BE PROVIDED FOR ALL RECEPTACLES, OUTLETS, SWITCHES AND FITTINGS. PLATES ON UNFINISHED WALLS AND ON FITTINGS SHALL BE OF IMPACT RESISTANT PLASTIC HAVING ROUNDED OR BEVELED EDGES. PLATES ON FINISHED WALLS SHALL BE IMPACT-RESISTANT PLASTIC. PLATES SHALL BE INSTALLED WITH ALL FOUR EDGES IN CONTINUOUS CONTACT WITH FINISHED WALL SURFACES WITHOUT THE USE OF MATS OR SIMILAR DEVICES, PLATES SHALL BE INSTALLED WITH AN ALIGNMENT TOLERANCE OF 1/16 INCH. THE USE OF SECTIONAL-TYPE DEVICE PLATES WILL NOT BE PERMITTED. PLATES INSTALLED IN WET LOCATIONS SHALL BE GASKETED AND PROVIDED WITH A HINGED, GASKETED COVER, UNLESS OTHERWISE SPECIFIED.
- 11. PROVIDE ALL NECESSARY JUNCTION BOXES, PULL BOXES, PULL WIRES, COVER PLATES AND OTHER MISCELLANEOUS EQUIPMENT WHICH IS NOT SHOWN ON THE CONTRACT DOCUMENTS BUT NECESSARY TO COMPLETE THE WORK.
- 12. PROVIDE ALL NECESSARY WIRE, CONDUIT AND EQUIPMENT TO SUPPLY POWER TO THE HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT, PLUMBING EQUIPMENT AND FIRE PROTECTION EQUIPMENT. CONTROL WIRING AND CONDUIT SHALL BE PROVIDED UNDER DIVISION 15.
- 13. COORDINATE ALL WORK WITH OTHER TRADES AND ARRANGE INSTALLATION TO AVOID CLASHES BETWEEN EQUIPMENT, WORK OF OTHER TRADES AND BUILDING STRUCTURE.

ELECTRICA	AL SYMBOL LIST
SYMBOL	DESCRIPTION
_	RECESSED PANELBOARD
□, 🖵	ELECTRICAL METER
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD, UNLESS INDICATED OTHERWISE SHALL BE CONNECTED TO A 1 POLE, 20 AMP CIRCUIT BREAKER
	BRANCH CIRCUIT WIRING, SWITCHED
J , J	JUNCTION BOX
	SPECIAL PURPOSE RECEPTACLE
S 3	THREE POLE SWITCH
S	SINGLE POLE SWITCH
GFCI	GFCI DUPLEX RECEPTACLE
GFCI WP	GFCI DUPLEX RECEPTACLE, WEATHER PROTECTED

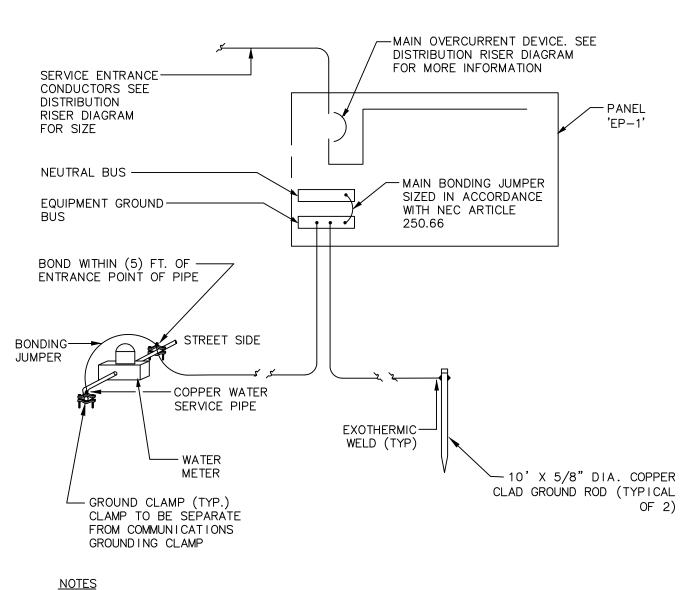


SERVICE ENTRANCE / DISTRIBUTION RISER DIAGRAM

	ELECTRICAL ABBREVIATIONS									
A/AMP AC ACU AFF AFG AWG BSMT C CATV C/B CKT DIA/Ø DN DWG ETR ELEC EWH	AMPERE ALTERNATING CURRENT AIR CONDITIONING UNIT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMERICAN WIRE GAUGE BASEMENT CONDUIT CABLE TELEVISION CIRCUIT BREAKER CIRCUIT DEGREE DIAMETER DOWN DRAWING EXISTING TO REMAIN ELECTRICAL ELECTRIC WATER HEATER	GFCI JB KVA KW MAX MCCB MIN MLO NA NEC NIC NIC NR NTS P PE PF PH/Ø	GROUND FAULT INTERRUPTER JUNCTION BOX KILOVOLT AMPERE KILOWATT MAXIMUM MOLDED CASE CIRCUIT BREAKER MINIMUM MAIN LUGS ONLY NOT APPLICABLE NATIONAL ELECTRIC CODE NOT IN CONTRACT NEW LOCATION OF EXISTING RELOCATED NEW TO REPLACE EXISTING NOT TO SCALE POLE PRIMARY ELECTRICAL SERVICE POWER FACTOR	PNL PVC RE RGS RL RM RR SPEC SWBD TELE TV T/TX TYP V VA VAC W WP	PANEL POLYVINYL CHLORIDE CONDUIT REMOVE EXISTING RIGID GALVANIZED STEEL CONDUIT RELOCATE EXISTING ROOM REMOVE AND REPLACE ON NEW SURFACE SPECIFICATION SWITCHBOARD TELECOMMUNICATIONS/TELEPHONE TELEVISION TRANSFORMER TYPICAL VOLTS VOLT AMPERE VOLTS ALTERNATING CURRENT WATT, WIRE WEATHERPROOF					



TYPICAL ELECTRICAL SERVICE MAST DETAIL



1. THE GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE CURRENT N.E.C. 2. BOND TO ALL GROUNDING ELECTRODE TYPES PRESENT.

TYPICAL MAIN ELECTRIC GROUNDING DETAIL



ПНЕ STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

MITIGATION and REHABILITATION for the GLANZ RESIDENCE APPLICATION No. 2157 6 BEACH ROAD WEST OLD SAYBROOK, CT 06475

| description

ELECTRICAL SYMBOLS, **SPECIFICATIONS** & DETAILS

22 OCT 2018 BBP drawn AS SHOWN scale DTB checked 1347-58 project no.

application no. 2157