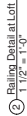


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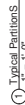
DETAILS

A501



SOFFIT TO BE 4"
TONGUE & GROOVE

WALL TYPES:





DAVIS ACCESSORY BUILDING

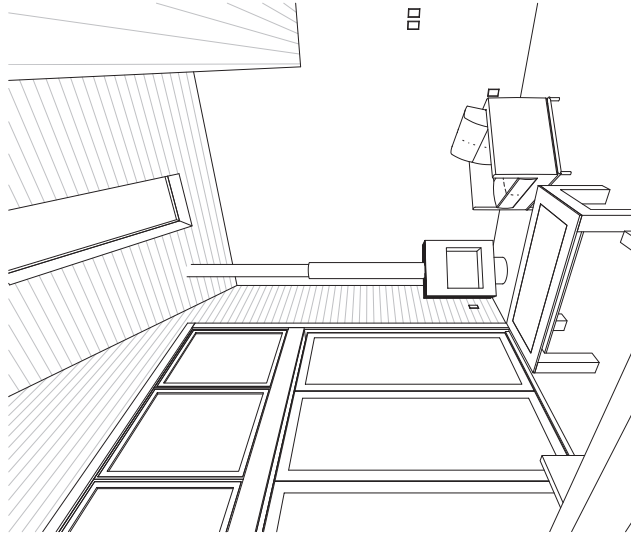
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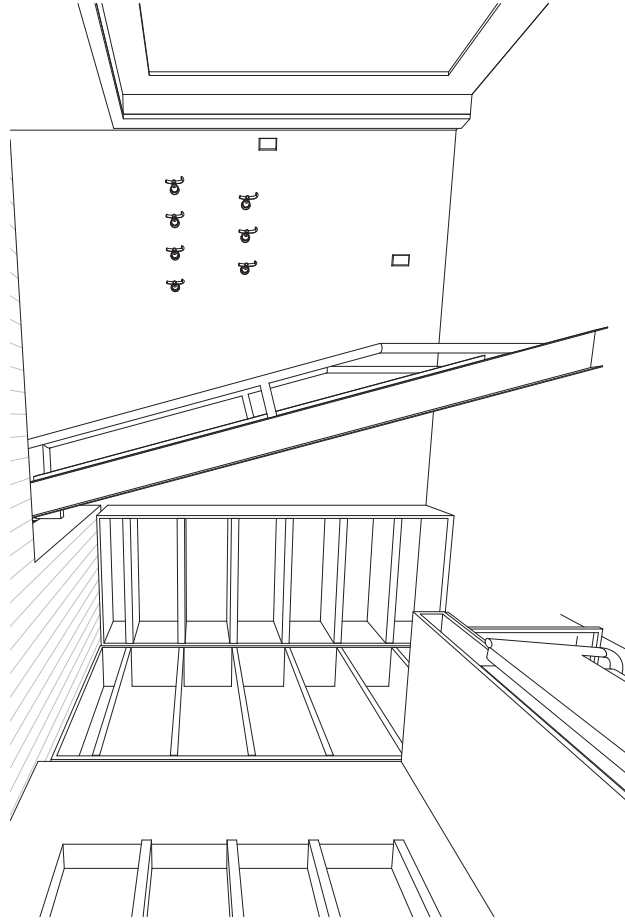
3D Views

Drawing Set	PERMIT SET
Date	04.08.21

A702



① View of Living Room from Kitchen



② Under Stair Shelving

DAVIS ACCESSORY BUILDING

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[illegible]STRUCTURAL
NOTES

Drawing Set	PERMIT SET
Date	04.08.21

\$100

A. APPLICABLE CODES: E. MASONRY:

- GENERAL DESIGN CODE:** 2017 DDC REFERENCE 2015 IRC & 2015 IBC
- CONCRETE WORK SHALL FOLLOW ACI 318, ACI 301 AND ACI 308**
- REQUIREMENTS FOR MASONRY STRUCTURES:** THE BUILDING CODE OF THE CITY OF LOS ANGELES CHAPTER 22, PART 1 BUILDING CODE SPECIFICATIONS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1 / ASCE 6)
- SPECIFICATION FOR WOOD CONSTRUCTION:** 2012, PROVIDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- ALL CONSTRUCTIONS AND MATERIALS SHALL MEET THE FOLLOWING PROVISIONS OF THE FOLLOWING STANDARDS AND ASSOCIATIONS:**
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - AMERICAN CONCRETE INSTITUTE (ACI)
 - AMERICAN WOOD COUNCIL (AWC)
 - AMERICAN FOREST AND PAPER ASSOCIATION
 - NATIONAL FOREST PRODUCTS ASSOCIATION (NFAA)

B. DESIGN LOADS:

- | | | |
|--|---------------------|--|
| 1. GRAVITY LOADS: | | |
| 1.1. ROOFS: | | |
| a. 12" FLOOR/CEILING SNOW LOAD | 30 PSF (LIVE LOAD) | |
| b. 12" FLOOR/CEILING SNOW LOAD | 40 PSF (LIVE LOAD) | |
| c. FLOOR RAFTERS | 25 PSF (DEAD LOAD) | |
| d. DESIGN LOAD (TOTAL LOAD SHALL BE LARGER OF ICASE COMPUTED LOAD AND 12" FLOOR/CEILING SNOW LOAD PLUS DRIFTING AND SLIDING SNOW) (21 DCMR 12B) | 15 PSF (DEAD LOAD) | |
| 1.2. FLOORS: | | |
| a. FLOORS OTHER THAN SLEEPING ROOMS | 40 PSF (LIVE LOAD) | |
| b. SLEEPING ROOMS | 30 PSF (LIVE LOAD) | |
| c. FLOOR ASSEMBLY LOAD | 10 PSF (DEAD LOAD) | |
| 2. LATERAL LOADS: | | |
| a. 1. WIND LOADS: | | |
| b. BASIC WIND SPEED | 90 MPH (8 SEC GUST) | |
| c. WIND IMPORTANCE FACTOR | 1.0 | |
| d. DESIGN WIND LOAD (TOTAL LOAD SHALL BE LARGER OF ICASE COMPUTED LOAD AND 12" PSF FOR MAIN FLOOR RESISTING SYSTEM AND 16" PSF FOR MAIN FLOOR RESISTING SYSTEM AND 12" PSF FOR SECOND FLOOR CATEGORY 1B) | 10 PSF (DEAD LOAD) | |
| e. DESIGN WIND CATEGORY | 2B | |
| 3. FOUNDATION: | | |
| a. FOUNDATION DESIGN ASSUMED SOIL BEARING VALUE OF 1,500 PSF. | | |
| 4. DEFLECTION LIMITS: | | |
| a. 1 FLOOR JOISTS (LIVE LOAD) | SPAN/480 | |
| b. 2 FLOOR JOISTS (TOTAL LOAD) | SPAN/240 | |
| c. 4 FLOOR JOISTS (TOTAL LOAD) | SPAN/160 | |
| d. FLOOR RAFTERS (TOTAL LOAD) | SPAN/180 | |

C. GENERAL :

1. THE METHOD OF CONSTRUCTION AND THE SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING AND LATERAL STABILITY OF THE BUILDING AND PORTION THEREOF DURING CONSTRUCTION.
2. CONTRACTOR TO FOLLOW OSHA REGULATIONS DURING CONSTRUCTION.
3. UNBRACED EXCAVATIONS SHALL BE NO GREATER THAN 2 HORIZONTAL PER 1 VERTICAL OR PER OSHA STANDARDS.

D. CONCRETE:

1. ALL REINFORCEMENT TO BE BILLET STEEL CONFORMING TO ASTM A615 GRADE 60 AND DETAILLED, FABRICATED AND PLACED IN ACCORDANCE WITH THE FOLLOWING:
2. ALL WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A185. ALL MESH EDEGES SHALL OVER LAP 2 SQUARES MINIMUM.
3. CONCRETE COMPRESSIVE STRENGTH FCAT 28 DAYS SHALL BE 4,000 PSI.
4. CONCRETE COVER UP TO THE FACE OF REINFORCING BAR: 41 FORMED CAST PERMANENTLY 3" 42 CONCRETE CAST PERMANENTLY 3" 43 FORMED CAST PERMANENTLY 2"
5. REINFORCEMENT TO WEATHER OR EARTH: 44 ALL REINFORCING BARS SHALL NOT BE EXPOSED TO WEATHER OR EARTH. 45 ALL REINFORCING BARS SHALL BE COVERED WITH 1" AND 3/4" 46 FOR BEAMS AND COLUMNS 3/4" 47 FOR SLABS 1" 48 FOR WALLS 1" 49 FOR FLOORS 1" 50 FOR CHAIRS 1" 51 FOR REINFORCING WITHOUT TIES 1 1/2"
6. REINFORCEMENT TO WEATHER (REINFORCEMENT WITHOUT TIES): 52 ALL AIR CONTENT FOR CONCRETE EXPOSED TO WEATHER TO BE 12% MINIMUM.
7. PROVIDE CHAIRS, BOSTERS, TIES ETC. AT THE APPROPRIATE SPACES TO ENSURE THE CORRECT PLACE AND SUPPORT OF THE REINFORCEMENT.
8. REINFORCEMENT SPICES SHALL LAP SPICES PER CHAPTER 12 OF ACI 318 WITH A MINIMUM LAP OF 36 DIAMETERS.
9. PROVIDE CORNER BARS AT ALL WALL, FOOTINGS AND BEAM JOINTS. PROVIDE ANCHOR WITH CONTINUOUS REINFORCEMENT UNLESS NOTED OTHERWISE.
10. ALL CONCRETE TO BE CONSOLIDATED IN PLACE USING INTERVAL VIBRATION.
11. ALL KEYWAYS SHALL BE MINIMUM 1.5" X 35".

E. MASONRY:

- HOLLOW LOAD BEARING UNITS SHALL CONFORM WITH ASTM C90 WITH A NET AREA COMPRESSIVE MASSALON STRENGTH OF 7M GFCI.
- MORTAR SHALL BE PER FILL M270 TYPE S.
- USE COARSE GRAIT TO 2MM MAXIMUM SIZE.
- VERTICAL REINFORCEMENT BARS SHALL HAVE MINIMUM 12" CLEARANCE FROM MASOLN. THE MINIMUM DISTANCE BETWEEN TWO REINFORCING BARS SHALL BE ONE BAR DIAMETER (WHICHEVER IS BIGGER OF THE TWO).
- MINIMUM BAR SPICE SHALL BE 36 DIAMETERS.
- CONCRETE SHALL BE PLACED IN RUNNING BANDS THAT WILL OR MAY NOT BE FULLY COVERED BY FINISHES.
- COURT HEIGHT SHALL NOT EXCEED 24". CONSOLIDATE COURTS MECHANICALLY AND RECONSOLIDATE AFTER THE FIRST 10 MINUTES SET TIME HAS ELAPSED.
- MASOLN SHALL BE PLACED IN RUNNING BAND WITH 3-8" MORTAR JOINTS.
- E. WOOD:

F. WOOD

- | | | | |
|---|--------------------------|---|--------------------------|
| PRESERVATIVE TREATED | | HEADERS SHALL BE MINIMUM 4" X 6" WITH THE FOLLOWING DESIGN VALUES: | |
| F _b | = 850 PSI | F _c | = 150 PSI |
| E | = 1,300,000 PSI | E | = 1,300,000 PSI |
| ALL BEARING WALLS SHALL BE MINIMUM 8" X 8" WITH THE FOLLOWING DESIGN VALUES: | | ALL BEARING WALLS SHALL BE MINIMUM 8" X 8" WITH THE FOLLOWING DESIGN VALUES: | |
| F _b | = 875 PSI | F _b | = 875 PSI |
| F _c | = 150 PSI | F _c | = 150 PSI |
| E | = 1,300,000 PSI | E | = 1,300,000 PSI |
| ALL WALL TOP AND BOTTOM PLATES TO BE SOUTHERN PINE #2 WITH THE FOLLOWING DESIGN VALUES: | | ALL WALL TOP AND BOTTOM PLATES TO BE SOUTHERN PINE #2 WITH THE FOLLOWING DESIGN VALUES: | |
| F _b | = 175 PSI | F _b | = 175 PSI |
| F _c | = 565 PSI | F _c | = 565 PSI |
| E | = 1,600,000 PSI | E | = 1,600,000 PSI |
| ALL 2X6 PRESERVATIVE TREATED POSTS TO BE SOUTHERN PINE #2 WITH THE FOLLOWING DESIGN VALUES FOR WET SERVICE CONDITION: | | ALL 2X6 PRESERVATIVE TREATED POSTS TO BE SOUTHERN PINE #2 WITH THE FOLLOWING DESIGN VALUES FOR WET SERVICE CONDITION: | |
| F _b | = 850 PSI | F _b | = 850 PSI |
| F _c | = 375 PSI | F _c | = 375 PSI |
| E | = 1,200,000 PSI | E | = 1,200,000 PSI |
| ALL MULTIPLE PILES SHALL BE CONNECTED TOGETHER TO MEET MANUFACTURER'S RECOMMENDATIONS AND HAVE THE FOLLOWING DESIGN VALUES FOR 10% LOAD DURATION: | | ALL MULTIPLE PILES SHALL BE CONNECTED TOGETHER TO MEET MANUFACTURER'S RECOMMENDATIONS AND HAVE THE FOLLOWING DESIGN VALUES FOR 10% LOAD DURATION: | |
| F _b | = 750 PSI (1/2" DEPTH) | F _b | = 750 PSI (1/2" DEPTH) |
| F _c | = 285 PSI | F _c | = 285 PSI |
| E | = 1,900,000 PSI | E | = 1,900,000 PSI |
| ALL PARALLAM PSL COLUMNS SHALL HAVE THE FOLLOWING DESIGN VALUES FOR 10% LOAD DURATION: | | ALL PARALLAM PSL COLUMNS SHALL HAVE THE FOLLOWING DESIGN VALUES FOR 10% LOAD DURATION: | |
| F _b | = 2,400 PSI (1/2" DEPTH) | F _b | = 2,400 PSI (1/2" DEPTH) |
| F _c | = 1,800 PSI | F _c | = 1,800 PSI |
| E | = 1,900,000 PSI | E | = 1,900,000 PSI |
| PRESERVATIVE TREATED LUMBER REQUIREMENTS: | | PRESERVATIVE TREATED LUMBER REQUIREMENTS: | |
| ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH WATER SHALL BE TREATED TO A "QUARTER LOG" CATEGORY OR BETTER. | | ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH WATER SHALL BE TREATED TO A "QUARTER LOG" CATEGORY OR BETTER. | |
| ALL STEEL FASTENERS, HANGERS, ETC. IN CONTACT WITH LUMBER SHALL BE GALVANIZED OR GALVANNEAL. | | ALL STEEL FASTENERS, HANGERS, ETC. IN CONTACT WITH LUMBER SHALL BE GALVANIZED OR GALVANNEAL. | |
| MINIMUM 3" COATING OR 30 MILS STEEL | | MINIMUM 3" COATING OR 30 MILS STEEL | |
| ALL INTERIOR WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY TO BE SODIUM BORATE TREATED WOOD. | | ALL INTERIOR WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY TO BE SODIUM BORATE TREATED WOOD. | |
| 3. CAPENTRY: | | 3. CAPENTRY: | |

G. CARPENTRY:

7. PROVIDE SOLID BLOCK UNDER ALL BEARING WALLS AND POSTS CONTINUOUSLY TO THE FOUNDATIONS.
8. PROVIDE JOINTS BETWEEN THE JOISTS AND RATTERS AT ALL BEARING POINTS.
9. PROVIDE SOLID BLOCKING AT MAXIMUM 8' O.C. ALONG THE ENTIRE LENGTH OF THE ROOF TRUSS SYSTEM.
10. A LUMBER SHALL BEAR THE STAMP OF THE MANUFACTURER'S DESIGNATION AND BE FULLY SURFACED ON ALL FOUR SIDES (\$4S).
11. ALL WOOD MEMBERS SHALL COMPLY WITH THE AMERICAN SOFTWOOD LUMBER STANDARD PRESORTED TEST EDITION.
12. MINIMUM MOISTURE CONTENT OF WOOD MEMBERS SHALL BE 19%.
13. ROOF SHEATHING SHALL BE 5/8" PLYWOOD OR EQUIVALENT EXPOSURE I OR II TYPE. EDGES OF SHEATHING SHALL BE BETWEEN THE FRAMING MEMBERS.
14. ALL PLANKS SHALL BE 2" THICK AND 6" WIDE. ALL PLANKS SHALL BE 2" ON CENTER IN FIELD. USE PLYWOOD CLIPS TO HOLD PLANKS TOGETHER BETWEEN THE FRAMING MEMBERS.
15. ALL PLYWOOD OR OSB SUB-FLOOR SHALL BE 3/4" THICK TONGUE AND GROOVE JOINTS. ALL JOINTS SHALL BE BETWEEN THE FRAMING MEMBERS.
16. ALL DECKING SHALL BE 2" THICK AND 6" WIDE. ALL DECKING SHALL BE 2" ON CENTER IN FIELD UNLESS NOTED OTHERWISE ON DRAWINGS.
17. ALL EXTERIOR STUD WALLS SHALL HAVE TO BE 4" APA NALD 12' ON CENTER. ALL INTERIOR STUD WALLS SHALL HAVE TO BE 4" APA NALD 12' ON CENTER. ALL STUD WALLS SHALL HAVE TO BE 4" APA NALD 12' ON CENTER. ALL STUD WALLS SHALL HAVE TO BE 4" APA NALD 12' ON CENTER.
18. ALL WOOD TOP PLATE SOURCES SHALL BE MINIMUM 4" X 6".
19. ALL AGGERED GUEKINS SHALL BE CONTAINUOUS BETWEEN THE TOP PLATES AND THE BOTTOM PLATE OF THE WALL ABOVE.

13. FASTEN ALL MULTIPLE PLY MEMBERS TOGETHER WITH

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H. STEEL:

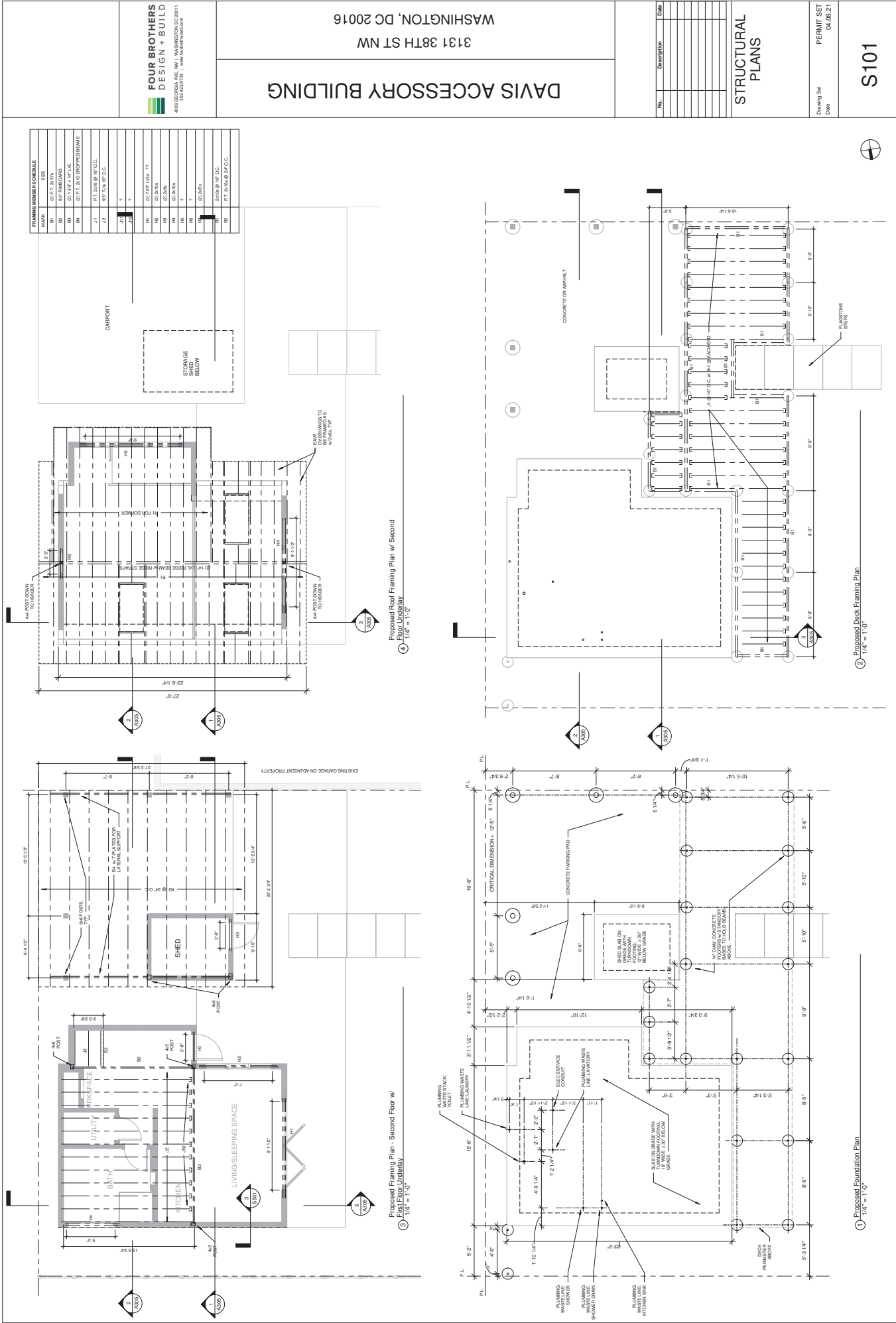
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E. = 600 PSI
= 1,600,000 PSI

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1000

11. PROVIDE SOLID BLOCK UNDER ALL BEARING WALLS AND POSTS CONTINUOUSLY TO THE FOUNDATIONS.
12. PROVIDE SOLID BLOCKING BETWEEN THE JOISTS AND RAFTERS AT PROTECTION.
13. PROVIDE SOLID BLOCKING AT MAXIMUM 8'-0" O.C. ALONG THE JOISTS AND RAFTERS SPANS.
14. PROVIDE A MINIMUM 3" CONCRETE COVER.
15. MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY CONTINUOUS THROUGH THE ENTIRE STRUCTURE. CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.



FRAMING MEMBER SCHEDULE		
MARK	SIZE	
1H	(2) 1" x 10" x 10"	
2H	5" x 10" x 10"	
3H	5" x 10" x 10"	
4H	5" x 10" x 10"	
5H	5" x 10" x 10"	
6H	5" x 10" x 10"	
7H	5" x 10" x 10"	
8H	5" x 10" x 10"	
9H	5" x 10" x 10"	
10H	5" x 10" x 10"	
11H	5" x 10" x 10"	
12H	5" x 10" x 10"	
13H	5" x 10" x 10"	
14H	5" x 10" x 10"	
15H	5" x 10" x 10"	
16H	5" x 10" x 10"	
17H	5" x 10" x 10"	
18H	5" x 10" x 10"	
19H	5" x 10" x 10"	
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21H	5" x 10" x 10"	
22H	5" x 10" x 10"	
23H	5" x 10" x 10"	
24H	5" x 10" x 10"	
25H	5" x 10" x 10"	
26H	5" x 10" x 10"	
27H	5" x 10" x 10"	
28H	5" x 10" x 10"	
29H	5" x 10" x 10"	
30H	5" x 10" x 10"	
31H	5" x 10" x 10"	
32H	5" x 10" x 10"	
33H	5" x 10" x 10"	
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35H	5" x 10" x 10"	
36H	5" x 10" x 10"	
37H	5" x 10" x 10"	
38H	5" x 10" x 10"	
39H	5" x 10" x 10"	
40H	5" x 10" x 10"	
41H	5" x 10" x 10"	
42H	5" x 10" x 10"	
43H	5" x 10" x 10"	
44H	5" x 10" x 10"	
45H	5" x 10" x 10"	
46H	5" x 10" x 10"	
47H	5" x 10" x 10"	
48H	5" x 10" x 10"	
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69H	5" x 10" x 10"	
70H	5" x 10" x 10"	
71H	5" x 10" x 10"	
72H	5" x 10" x 10"	
73H	5" x 10" x 10"	
74H	5" x 10" x 10"	
75H	5" x 10" x 10"	
76H	5" x 10" x 10"	
77H	5" x 10" x 10"	
78H	5" x 10" x 10"	
79H	5" x 10" x 10"	
80H	5" x 10" x 10"	
81H	5" x 10" x 10"	
82H	5" x 10" x 10"	
83H	5" x 10" x 10"	
84H	5" x 10" x 10"	
85H	5" x 10" x 10"	
86H	5" x 10" x 10"	
87H	5" x 10" x 10"	
88H	5" x 10" x 10"	
89H	5" x 10" x 10"	
90H	5" x 10" x 10"	
91H	5" x 10" x 10"	
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95H	5" x 10" x 10"	
96H	5" x 10" x 10"	
97H	5" x 10" x 10"	
98H	5" x 10" x 10"	
99H	5" x 10" x 10"	
100H	5" x 10" x 10"	

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**STRUCTURAL
PLANS**

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S101



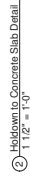
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Date	04.08.21



① Holdown at Second Floor Framing Detail
1 1/2" = 1'-0"

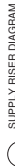


③ Exterior Wall to Slab Connection Detail
1 1/2" = 1'-0"

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PLUMBING EQUIPMENT SCHEDULE:					
MODEL	TYPE	LOCATION	MANUFACTURER	GAL. CAPACITY	NOTES
	TEMPERATURE VALVE	UTILITY CLOSET	ST. BELL, GL. TROPH	0.5 GPM	ELECTRIC THERMOSTAT VALVE
GRANDS					

MODEL	TYPE	LOCATION	MANUFACTURER	GAL. CAPACITY	NOTES
225405	TRUMPUMP PLUS	UTILITY CLOSET	ST. BEBEL ELECTRON	0.5 GPM	ELECTRIC TRIMPUMP WATER HEATER



P101

Drawing Set	PERMIT SET
Date	04.08.21

ELECTRICAL NOTES:

- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND DISTRICT OF COLUMBIA CODE. WHERE ANY PORTION OF THE NATIONAL ELECTRICAL CODE OR DISTRICT OF COLUMBIA CODE IS IN CONFLICT WITH THE CODES OF THE DISTRICT OF COLUMBIA, THE DISTRICT OF COLUMBIA CODE SHALL PREVAIL.
- THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.
- ELECTRICAL EQUIPMENT SHALL BE NEW, UNDAMAGED, AND BEAR THE "UL" LABEL. INSTALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS OR ANY HIGHER STANDARD REQUIRED BY CONSTRUCTION DOCUMENTS OR RELEVANT CODES. AND THE BIDDING AND CONTRACT REQUIREMENTS APPLY TO ALL ELECTRICAL WORK.
- OBTAIN REQUIRED PERMITS AND PAY ANY FEES REQUIRED FOR THE ELECTRICAL WORK AS INCLUDED IN BID PRICE.
- TEST ALL SYSTEMS, DEVICES, AND RELATED EQUIPMENT ON-SITE WITH EQUIPMENT IN PLACE AS WORK IS COMPLETED. REPLACE ANY DEFECTIVE WORK AND RETEST UNTIL SATISFACTORY.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE FOR CIRCUIT ALLOCATION ONLY. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF STRUCTURE.
- PROVIDE HARDWIRED, INTERLINKED SMOKE DETECTORS W/ BATTERY BACKUP PER CODE.
- ALL OUTLETS LOCATED IN KITCHENS, BATHROOMS, LAUNDRY ROOMS, GARAGES, OUTSIDE, AND IN OTHER WET LOCATIONS, ARE TO BE GFI RATED.
- ALL INTERIOR LIGHT FIXTURES SHALL BE LED AND 75% OF ALL OTHER FIXED LIGHTING SHALL HAVE HIGH EFFICIENCY BULBS INSTALLED.
- ALL RECESSED LIGHTS TO BE ON DIMMER SWITCHES.
- BATH FAN W/ LIGHT: PANASONIC FV08VRL Bathroom Fan, 80 CFM, 0.17A

PANEL SCHEDULE		LOCATION: 3000 KENNESAW RD NW, WASHINGTON, DC 20016		VOLTAGE: 120/240		PHASE: 1		WIRE: 3		WIRE: 4		WIRE: 5		WIRE: 6		WIRE: 7		WIRE: 8		WIRE: 9		WIRE: 10		WIRE: 11		WIRE: 12		WIRE: 13		WIRE: 14		WIRE: 15		WIRE: 16		WIRE: 17		WIRE: 18		WIRE: 19		WIRE: 20		WIRE: 21		WIRE: 22		WIRE: 23		WIRE: 24		WIRE: 25		WIRE: 26		WIRE: 27		WIRE: 28		WIRE: 29		WIRE: 30		WIRE: 31		WIRE: 32		WIRE: 33		WIRE: 34		WIRE: 35		WIRE: 36		WIRE: 37		WIRE: 38		WIRE: 39		WIRE: 40		WIRE: 41		WIRE: 42		WIRE: 43		WIRE: 44		WIRE: 45		WIRE: 46		WIRE: 47		WIRE: 48		WIRE: 49		WIRE: 50		WIRE: 51		WIRE: 52		WIRE: 53		WIRE: 54		WIRE: 55		WIRE: 56		WIRE: 57		WIRE: 58		WIRE: 59		WIRE: 60		WIRE: 61		WIRE: 62		WIRE: 63		WIRE: 64		WIRE: 65		WIRE: 66		WIRE: 67		WIRE: 68		WIRE: 69		WIRE: 70		WIRE: 71		WIRE: 72		WIRE: 73		WIRE: 74		WIRE: 75		WIRE: 76		WIRE: 77		WIRE: 78		WIRE: 79		WIRE: 80		WIRE: 81		WIRE: 82		WIRE: 83		WIRE: 84		WIRE: 85		WIRE: 86		WIRE: 87		WIRE: 88		WIRE: 89		WIRE: 90		WIRE: 91		WIRE: 92		WIRE: 93		WIRE: 94		WIRE: 95		WIRE: 96		WIRE: 97		WIRE: 98		WIRE: 99		WIRE: 100		WIRE: 101		WIRE: 102		WIRE: 103		WIRE: 104		WIRE: 105		WIRE: 106		WIRE: 107		WIRE: 108		WIRE: 109		WIRE: 110		WIRE: 111		WIRE: 112		WIRE: 113		WIRE: 114		WIRE: 115		WIRE: 116		WIRE: 117		WIRE: 118		WIRE: 119		WIRE: 120		WIRE: 121		WIRE: 122		WIRE: 123		WIRE: 124		WIRE: 125		WIRE: 126		WIRE: 127		WIRE: 128		WIRE: 129		WIRE: 130		WIRE: 131		WIRE: 132		WIRE: 133		WIRE: 134		WIRE: 135		WIRE: 136		WIRE: 137		WIRE: 138		WIRE: 139		WIRE: 140		WIRE: 141		WIRE: 142		WIRE: 143		WIRE: 144		WIRE: 145		WIRE: 146		WIRE: 147		WIRE: 148		WIRE: 149		WIRE: 150		WIRE: 151		WIRE: 152		WIRE: 153		WIRE: 154		WIRE: 155		WIRE: 156		WIRE: 157		WIRE: 158		WIRE: 159		WIRE: 160		WIRE: 161		WIRE: 162		WIRE: 163		WIRE: 164		WIRE: 165		WIRE: 166		WIRE: 167		WIRE: 168		WIRE: 169		WIRE: 170		WIRE: 171		WIRE: 172		WIRE: 173		WIRE: 174		WIRE: 175		WIRE: 176		WIRE: 177		WIRE: 178		WIRE: 179		WIRE: 180		WIRE: 181		WIRE: 182		WIRE: 183		WIRE: 184		WIRE: 185		WIRE: 186		WIRE: 187		WIRE: 188		WIRE: 189		WIRE: 190		WIRE: 191		WIRE: 192		WIRE: 193		WIRE: 194		WIRE: 195		WIRE: 196		WIRE: 197		WIRE: 198		WIRE: 199		WIRE: 200		WIRE: 201		WIRE: 202		WIRE: 203		WIRE: 204		WIRE: 205		WIRE: 206		WIRE: 207		WIRE: 208		WIRE: 209		WIRE: 210		WIRE: 211		WIRE: 212		WIRE: 213		WIRE: 214		WIRE: 215		WIRE: 216		WIRE: 217		WIRE: 218		WIRE: 219		WIRE: 220		WIRE: 221		WIRE: 222		WIRE: 223		WIRE: 224		WIRE: 225		WIRE: 226		WIRE: 227		WIRE: 228		WIRE: 229		WIRE: 230		WIRE: 231		WIRE: 232		WIRE: 233		WIRE: 234		WIRE: 235		WIRE: 236		WIRE: 237		WIRE: 238		WIRE: 239		WIRE: 240		WIRE: 241		WIRE: 242		WIRE: 243		WIRE: 244		WIRE: 245		WIRE: 246		WIRE: 247		WIRE: 248		WIRE: 249		WIRE: 250		WIRE: 251		WIRE: 252		WIRE: 253		WIRE: 254		WIRE: 255		WIRE: 256		WIRE: 257		WIRE: 258		WIRE: 259		WIRE: 260		WIRE: 261		WIRE: 262		WIRE: 263		WIRE: 264		WIRE: 265		WIRE: 266		WIRE: 267		WIRE: 268		WIRE: 269		WIRE: 270		WIRE: 271		WIRE: 272		WIRE: 273		WIRE: 274		WIRE: 275		WIRE: 276		WIRE: 277		WIRE: 278		WIRE: 279		WIRE: 280		WIRE: 281		WIRE: 282		WIRE: 283		WIRE: 284		WIRE: 285		WIRE: 286		WIRE: 287		WIRE: 288		WIRE: 289		WIRE: 290		WIRE: 291		WIRE: 292		WIRE: 293		WIRE: 294		WIRE: 295		WIRE: 296		WIRE: 297		WIRE: 298		WIRE: 299		WIRE: 300		WIRE: 301		WIRE: 302		WIRE: 303		WIRE: 304		WIRE: 305		WIRE: 306		WIRE: 307		WIRE: 308		WIRE: 309		WIRE: 310		WIRE: 311		WIRE: 312		WIRE: 313		WIRE: 314		WIRE: 315		WIRE: 316		WIRE: 317		WIRE: 318		WIRE: 319		WIRE: 320		WIRE: 321		WIRE: 322		WIRE: 323		WIRE: 324		WIRE: 325		WIRE: 326		WIRE: 327		WIRE: 328		WIRE: 329		WIRE: 330		WIRE: 331		WIRE: 332		WIRE: 333		WIRE: 334		WIRE: 335		WIRE: 336		WIRE: 337		WIRE: 338		WIRE: 339		WIRE: 340		WIRE: 341		WIRE: 342		WIRE: 343		WIRE: 344		WIRE: 345		WIRE: 346		WIRE: 347		WIRE: 348		WIRE: 349		WIRE: 350		WIRE: 351		WIRE: 352		WIRE: 353		WIRE: 354		WIRE: 355		WIRE: 356		WIRE: 357		WIRE: 358		WIRE: 359		WIRE: 360		WIRE: 361		WIRE: 362		WIRE: 363		WIRE: 364		WIRE: 365		WIRE: 366		WIRE: 367		WIRE: 368		WIRE: 369		WIRE: 370		WIRE: 371		WIRE: 372		WIRE: 373		WIRE: 374		WIRE: 375		WIRE: 376		WIRE: 377		WIRE: 378		WIRE: 379		WIRE: 380		WIRE: 381		WIRE: 382		WIRE: 383		WIRE: 384		WIRE: 385		WIRE: 386		WIRE: 387		WIRE: 388		WIRE: 389		WIRE: 390		WIRE: 391		WIRE: 392		WIRE: 393		WIRE: 394		WIRE: 395		WIRE: 396		WIRE: 397		WIRE: 398		WIRE: 399		WIRE: 400		WIRE: 401		WIRE: 402		WIRE: 403		WIRE: 404		WIRE: 405		WIRE: 406		WIRE: 407		WIRE: 408		WIRE: 409		WIRE: 410		WIRE: 411		WIRE: 412		WIRE: 413		WIRE: 414		WIRE: 415		WIRE: 416		WIRE: 417		WIRE: 418		WIRE: 419		WIRE: 420		WIRE: 421		WIRE: 422		WIRE: 423		WIRE: 424		WIRE: 425		WIRE: 426		WIRE: 427		WIRE: 428		WIRE: 429		WIRE: 430		WIRE: 431		WIRE: 432		WIRE: 433		WIRE: 434		WIRE: 435		WIRE: 436		WIRE: 437		WIRE: 438		WIRE: 439		WIRE: 440		WIRE: 441		WIRE: 442		WIRE: 443		WIRE: 444		WIRE: 445		WIRE: 446		WIRE: 447		WIRE: 448		WIRE: 449		WIRE: 450		WIRE: 451		WIRE: 452		WIRE: 453		WIRE: 454		WIRE: 455		WIRE: 456		WIRE: 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639		WIRE: 640		WIRE: 641		WIRE: 642		WIRE: 643		WIRE: 644		WIRE: 645		WIRE: 646		WIRE: 647		WIRE: 648		WIRE: 649		WIRE: 650		WIRE: 651		WIRE: 652		WIRE: 653		WIRE: 654		WIRE: 655		WIRE: 656		WIRE: 657		WIRE: 658		WIRE: 659		WIRE: 660		WIRE: 661		WIRE: 662		WIRE: 663		WIRE: 664		WIRE: 665		WIRE: 666		WIRE: 667		WIRE: 668		WIRE: 669		WIRE: 670		WIRE: 671		WIRE: 672		WIRE: 673		WIRE: 674		WIRE: 675		WIRE: 676		WIRE: 677		WIRE: 678		WIRE: 679		WIRE: 680		WIRE: 681		WIRE: 682		WIRE: 683		WIRE: 684		WIRE: 685		WIRE: 686		WIRE: 687		WIRE: 688		WIRE: 689		WIRE: 690		WIRE: 691		WIRE: 692		WIRE: 693		WIRE: 694		WIRE: 695		WIRE: 696		WIRE: 697		WIRE: 698		WIRE: 699		WIRE: 700		WIRE: 701		WIRE: 702		WIRE: 703		WIRE: 704		WIRE: 705		WIRE: 706		WIRE: 707		WIRE: 708		WIRE: 709		WIRE: 710		WIRE: 711		WIRE: 712		WIRE: 713		WIRE: 714		WIRE: 715		WIRE: 716		WIRE: 717		WIRE: 718		WIRE: 719		WIRE: 720		WIRE: 721		WIRE: 722		WIRE: 723		WIRE: 724		WIRE: 725		WIRE: 726		WIRE: 727		WIRE: 728		WIRE: 729		WIRE: 730		WIRE: 731		WIRE: 732		WIRE: 733		WIRE: 734		WIRE: 735		WIRE: 736		WIRE: 737		WIRE: 738		WIRE: 739		WIRE: 740		WIRE: 741		WIRE: 742		WIRE: 743		WIRE: 744		WIRE: 745		WIRE: 746		WIRE: 747		WIRE: 748		WIRE: 749		WIRE: 750		WIRE: 751		WIRE: 752		WIRE: 753		WIRE: 754		WIRE: 755		WIRE: 756		WIRE: 757		WIRE: 758		WIRE: 759		WIRE: 760		WIRE: 761		WIRE: 762		WIRE: 763		WIRE: 764		WIRE: 765		WIRE: 766		WIRE: 767		WIRE: 768		WIRE: 769		WIRE: 770		WIRE: 771		WIRE: 772		WIRE: 773		WIRE: 774		WIRE: 775		WIRE: 776		WIRE: 777		WIRE: 778		WIRE: 779		WIRE: 780		WIRE: 781		WIRE: 782		WIRE: 783		WIRE: 784		WIRE: 785		WIRE: 786		WIRE: 787		WIRE: 788		WIRE: 789		WIRE: 790		WIRE: 791		WIRE: 792		WIRE: 793		WIRE: 794		WIRE: 795		WIRE: 796		WIRE: 797		WIRE: 798		WIRE: 799		WIRE: 800		WIRE: 801		WIRE: 802		WIRE: 803		WIRE: 804		WIRE: 805		WIRE: 806		WIRE: 807		WIRE: 808		WIRE: 809		WIRE: 810		WIRE: 811		WIRE: 812		WIRE: 813		WIRE: 814		WIRE: 815		WIRE: 816		WIRE: 817		WIRE: 818		WIRE: 819		WIRE: 820		WIRE: 821		WIRE: 822		WIRE: 823		WIRE: 824		WIRE: 825		WIRE: 826		WIRE: 827		WIRE: 828		WIRE: 829	
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