

2016 NYECC - TABULAR ANALYSIS via CHAPTER 5 ASHRAE 90.1-2013

| CLIMATE ZONE 4A ALL OTHER (NON-RESIDENTIAL PROGRAM IN CELLAR) | | | |
|--|---|---|--|
| SCOPE OF WORK: | BUILDING FOUNDATION ENERGY FILING FOR NEW RESIDENTIAL HIGH RISE - R-2 TYPE BUILDING | | |
| ITEM DESCRIPTION | PROPOSED DESIGN VALUE | CODE PRESCRIPTIVE VALUE AND CITATION | SUPPORTING DOCUMENTATION |
| BUILDING ENVELOPE | | | |
| 14" Thick Wall (Noninsulated) *From Table A9.4.3.-1 Concrete at R=0.0626/in. Proposed 14" wall - C=1/(14 x 0.0625), C=1.14 | C=1.14* for 14" Conc Walls (no Insul) | C-1.14 TABLE 5.5-4 BELOW GRADE WALL NON RES | FOUNDATION WALL DETAIL - ON DWG EN-003 |
| 14" Thick Wall w/Insulation *From Table A9.4.3-1 Concrete at R=0.0625/in Proposed 14" Wall C=1/(14 x 0.0625 + R-10) C=0.092 | C= 0.092* for 14" Conc Walls w/Insulation | C-1.14 TABLE 5.5-4 BELOW GRADE WALL NON RES | FOUNDATION WALL DETAILS - ON DWG. EN-002, EN-003 |

* Table A9.4.3-1- ASHRAE 90.1-2013

ENERGY PROGRESS INSPECTIONS
RCNY-5000-01-2016 NYC ENERGY CODE-
ASHRAE 90.1 2013

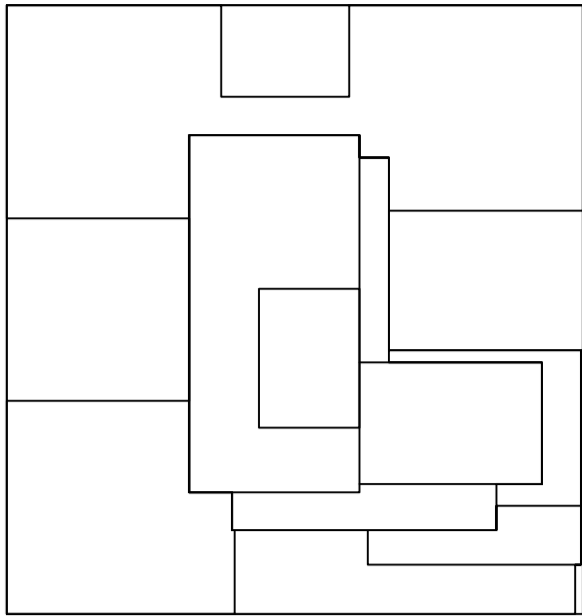
| | Inspection/Test | Periodic (minimum) | Reference Standard (See ECC Chapter C5) or Other Criteria | ECC or Other Citation |
|------|---|--|--|---|
| IIA | Envelope Inspections | | | |
| IIA1 | Protection of exposed foundation insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors. | As required during foundation work and prior to backfill | Approved construction documents | C303.2.1; ASHRAE 90.1 - 5.8.1.7 |
| IIA2 | Insulation placement and R-values installed insulation for each component of the conditioned space envelope and of junctions between components shall be visually inspected to ensure that R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected. Penetration U-factor and product ratings U-factor, SHGC and VT values of installed penetration shall be visually inspected for conformance with the U-factors, SHGC and VT values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables C303.1.3(1), (2) and (3). | As required to verify continuous enclosure white walls, ceilings and floors are open | Approved construction documents | C303.1, C303.1.1, C303.1.2, C402.1, C402.2; ASHRAE 90.1 - 5.5, 5.6 or 11; 5.8.1 |
| IIA3 | Insulation placement and R-values installed insulation for each component of the conditioned space envelope and of junctions between components shall be visually inspected to ensure that R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected. Penetration U-factor and product ratings U-factor, SHGC and VT values of installed penetration shall be visually inspected for conformance with the U-factors, SHGC and VT values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables C303.1.3(1), (2) and (3). | As required during installation | Approved construction documents; NFRC 100, NFRC 200 | C303.1, C303.1.3, C402.3; ASHRAE 90.1 5.5; 5.6 or 11; 5.8.2 |
| IIA4 | Penetration air leakage: Windows and sliding or revolving door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans. | As required during installation; prior to final construction inspection | NFRC 400, AAMA/WDMA/CSA 101/A.S.2/A440, ASTM E283, ANSI/DASMA 105 | C402.4.3; ASHRAE 90.1- 5.4.3.2 |
| IIA5 | Penetration areas: Dimensions of windows, doors and skylights shall be verified by visual inspection. Air sealing and insulation visual inspection: Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited in the approved plans. | Prior to final construction inspection | Approved construction documents | C402.3; ASHRAE 90.1 - 5.5.4.2, 5.6 or 11 |
| IIA6 | Penetration areas: Dimensions of windows, doors and skylights shall be verified by visual inspection. Air sealing and insulation visual inspection: Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited in the approved plans. | As required during construction | Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283. | C402.4; ASHRAE 90.1 - 5.4.3.1 |
| IIA9 | Vestibules: Required entrance vestibules shall be visually inspected for proper operation. | Prior to final construction inspection | Approved construction documents | C402.4.7; ASHRAE 90.1 - 5.4.3.4 |

EN DRAWINGS LIST

| DRAWING No. | DRAWING TITLE |
|-------------|----------------------------------|
| 1 EN-001.00 | ENERGY CODE COMPLIANCE SHEET - 1 |
| 2 EN-002.00 | ENERGY CODE COMPLIANCE SHEET - 2 |
| 3 EN-003.00 | ENERGY CODE COMPLIANCE SHEET - 3 |

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY 2016

THIS PLAN APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES



10/12/2016

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2

SEAL/STAMP

DOB/DOCS

Number Date Revision

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DOB/SCAN

DOB STAMPS & SIGNATURES

DWG TITLE

ENERGY CODE
COMPLIANCE SHEET - 1

SEAL & SIGNATURE

DATE

12/11/15

PROJECT #

150319

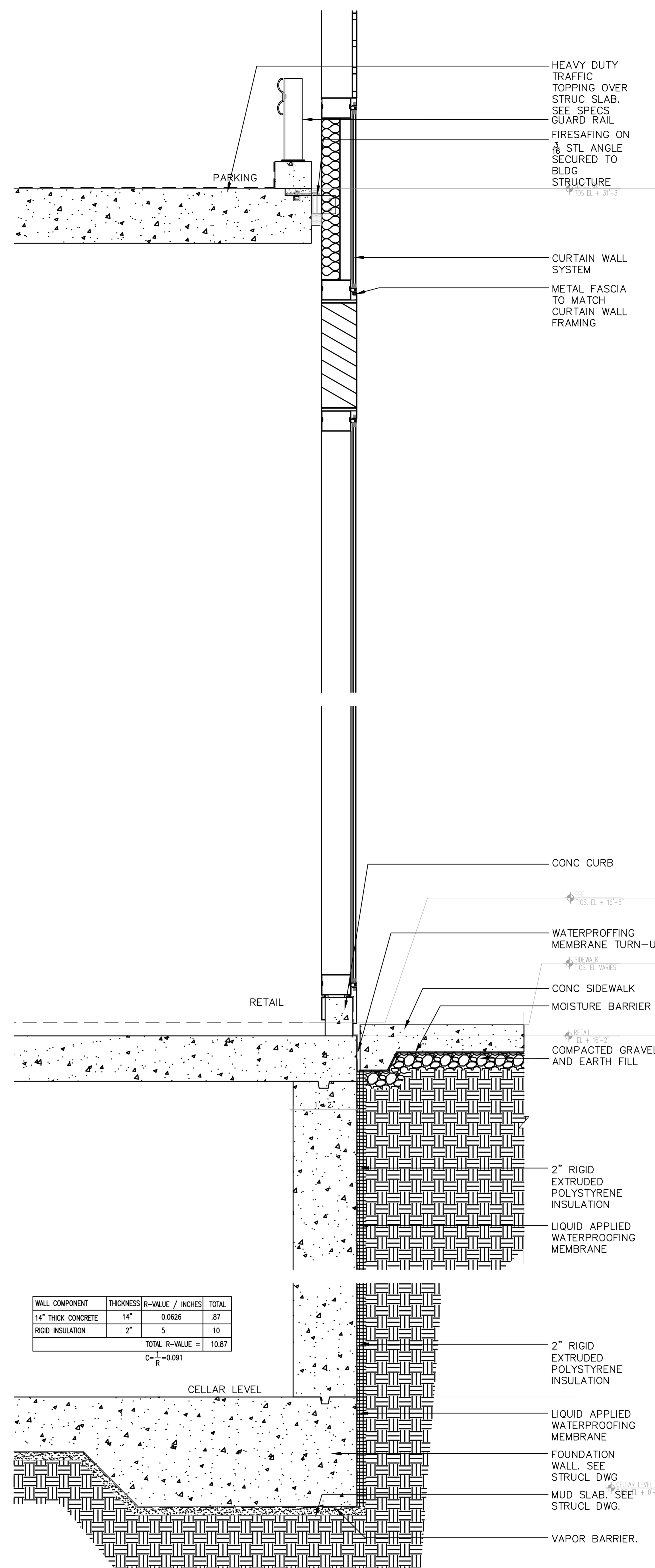
SCALE

NONE

DWG NO.

EN-001.00

10F3



1 SECTION THRU WEST STOREFRONT
Scale: 1"=1'-0"



| | | |
|---|------------|-----------------------|
| | 10/12/2016 | ISSUED FOR DOB |
| 2 | 04/15/2016 | DOB FILING FOUNDATION |

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| Number: | Date: | Revision: |
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DOB BSCAN:

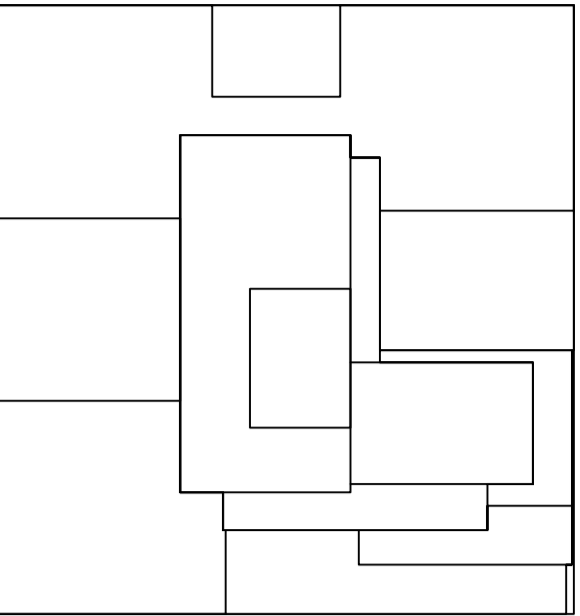
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DWG TITLE

ENERGY CODE
COMPLIANCE SHEET - 2

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| SEAL & SIGNATURE:  | DATE: _____ PROJECT #: _____ SCALE: EN-002 DWG NO. _____ |
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20F



KEY PLAN

10/12/2019 ISSUED FOR DOB

2 10/12/2019 10/12/2019

Number Date Revision

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DOB SCAN

DOB STAMPS & SIGNATURES

DWG TITLE ENERGY CODE
COMPLIANCE SHEET - 3

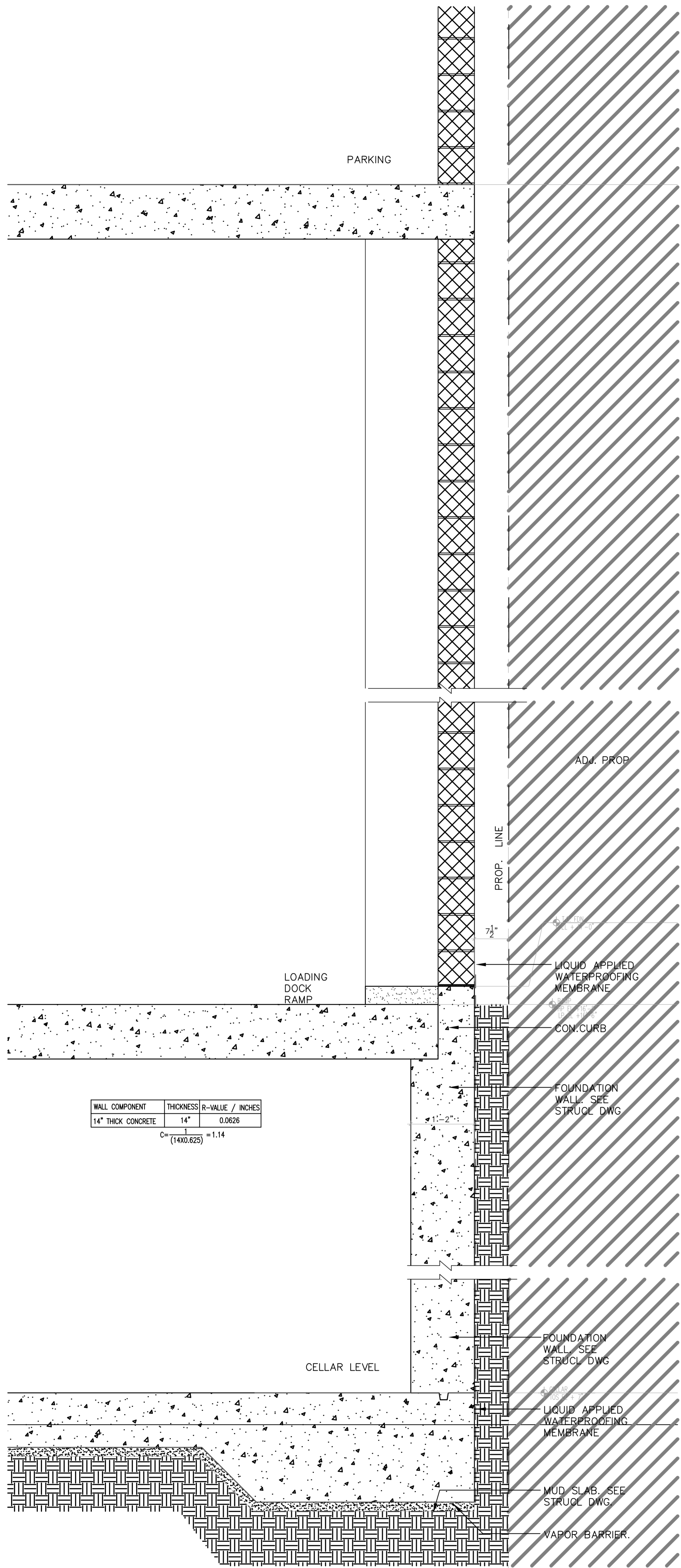
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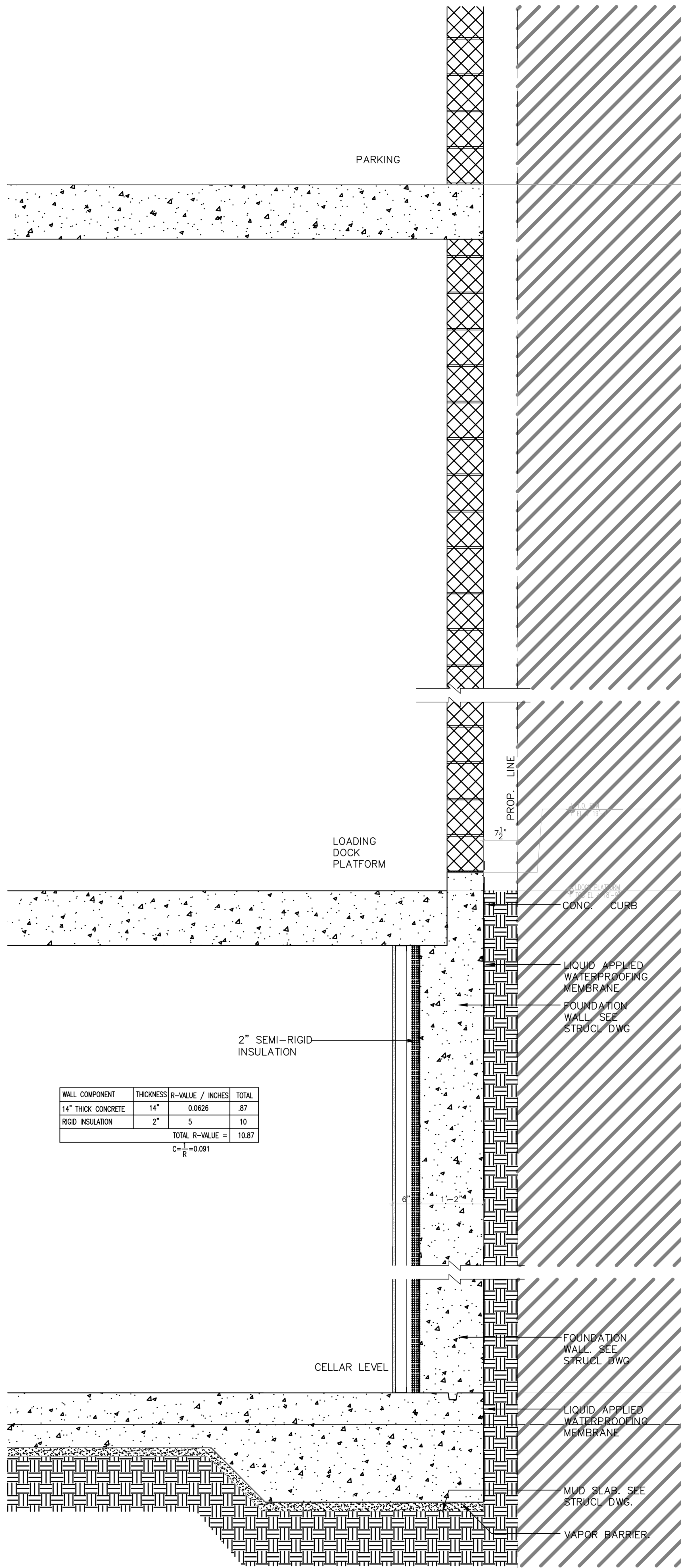
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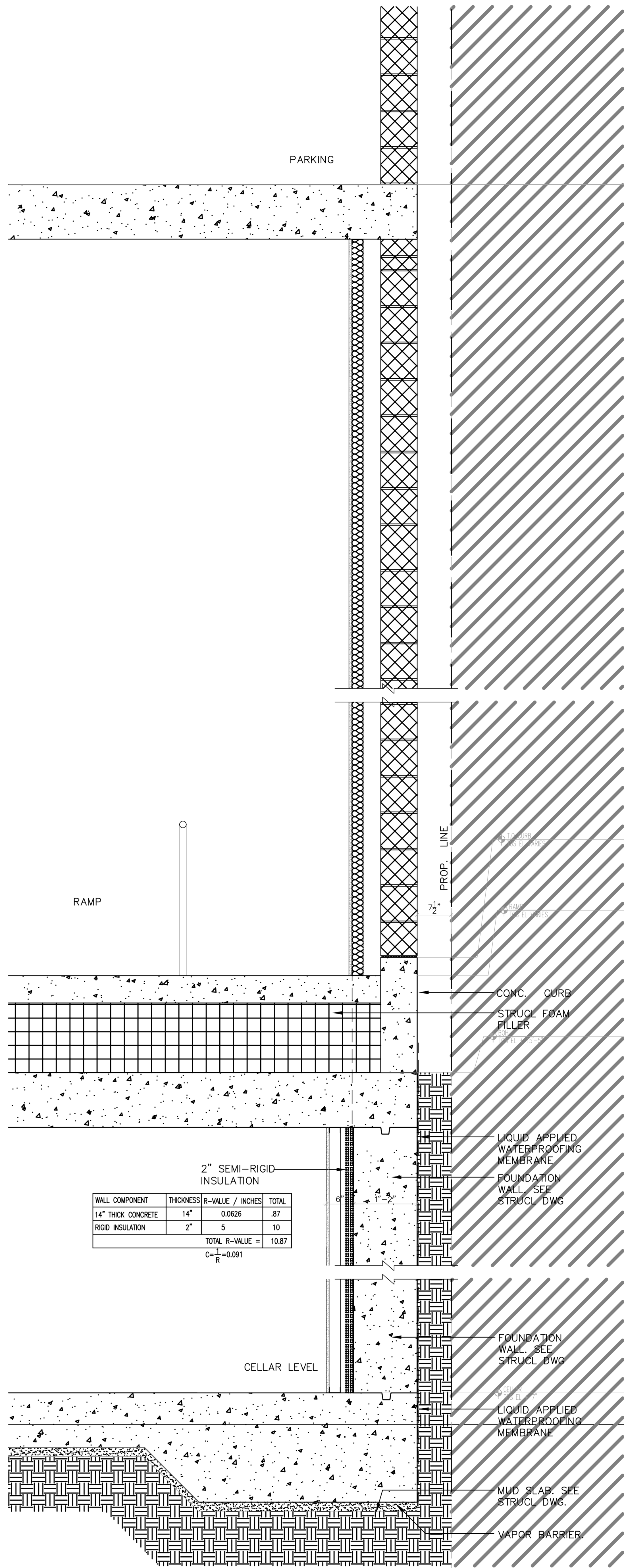
3 of 3



3 WALL SECTION NON-INSULATED WALL
Scale: 1"=1'-0"



2 WALL SECTION THRU EAST LOT LINE
Scale: 1"=1'-0"



1 WALL SECTION THRU EAST LOT LINE
Scale: 1"=1'-0"

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