POST TENDER ADDENDUM

JLG 16098 Bottineau Ridge II Apts

RE: post tender addendum 02

Issued: March 16, 2018

POST TENDER ADDENDUM #: 02

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated Month Day, Year for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

SPECIFICATIONS

1. SECTION 00 2113 – INSTRUCTIONS TO BIDDERS – See attachment
    a. Add paragraph 1.25 and subparagraph as follows:
        1.25 Enterprise Green Communities Criteria
            A. This project shall meet the requirements of the 2015 Enterprise Green Communities Criteria. To meet these requirements, the Contractor shall conform to the items indicated in the Minnesota Housing Finance Agency (MHFA) Multifamily – Intended Methods Worksheet which follows this section.
2. SECTION 11 3100 RESIDENTIAL APPLIANCES
    a. Add paragraph 2.04 Air Conditioner Unit
        A. Through-The-Wall Air Conditioner
            1. Provide Energy Star rated appliance.
            2. Basis of Specification:
                a. Fridgedaire Model FFTA1233S2.
                b. Filters replaced within two weeks of Substantial Completion.

DRAWINGS

1. G100 COVER SHEET – See attachment.
    - Index of Drawings, revised Sheet C-1 to "Preliminary Plat Signature Page", and Sheet C-3 to "Preliminary Plat"
2. G106 TYPICAL ASSEMBLIES – See attachment.
    - Details 1B, 2B & 2C/G106, revised wall types to concrete in lieu of CMU.
3. C301 GRADING PLAN – See attachment.
    - Revise "PROPOSED LANDSCAPE BLOCK WALL (SEE STRUCTURAL)" to "PROPOSED LANDSCAPE BLOCK WALL (DESIGN/BUILD BY CONTRACTOR)".
    - Changed Spot Elevations near Parking Garage Entrance and on Entrance Road
4. C401 UTILIITY PLAN – See attachment.
    - Removed Catch Basin 8.
    - Moved Catch Basin 5 to the east.
    - Changed Rim and Invert Elevations of Catch Basin 5, 6, and 7.
    - Rerouted Entire Watermain.

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- Added 50 LF – 20" Casing for Watermain Underneath Storage Area.

5. C501 EROSION CONTROL PLAN – See attachment.
    - Updated Inlet Protection Locations and Quantities.
6. C601 CIVIL DETAILS
    - Pedestrian Curb Ramp Standard Plate, On the Diagonal and Parrallel Ramp Details, revise the S to F to indicate slope shall be greater than 2% and less than 5% in the direction shown and cross slope shall not exceed 2%.
7. L-3 LANDSCAPE NOTES & DETAILS – See attachment
    - Irrigation Notes, revised to include efficient irrigation system requirements.
8. S002 SPECIAL INSPECTIONS – See attachment.
    - Omitted Special Inspection table for "Masonry Level 1 Inspection." Masonry is no longer a structural component on the project and does not require inspection per the IBC, Chapter 17.
9. S101A & S101B FOUNDATION PLAN "WEST" AND "EAST" – See attachment.
    - All foundation walls and shaft walls were changed from CMU to CIP Concrete
    - CIP piers at precast beam bearing were updated
10. S201A & S201B FIRST FLOOR FRAMING PLAN "WEST" AND "EAST" – See attachment.
    - All foundation walls and shaft walls were changed from CMU to CIP Concrete
    - Precast columns were eliminated alongside CIP walls and replaced with CIP piers
    - New foundation wall dimensions at the NE corner of the building where grade drops
    - CMU lintels were replaced with CIP concrete beams
    - Reinforcement was updated and added for CIP foundation and shaft walls
11. S206 SHEAR WALL PLAN AND DETAILS – See attachment.
    - Details updated for CIP foundation walls
12. S301 FOUNDATION DETAILS – See attachment.
    - Details updated for CIP foundation walls
13. S302 FOUNDATION DETAILS – See attachment.
    - Details updated for CIP foundation walls
14. S401 FRAMING DETAILS – See attachment.
    - Details updated for CIP foundation walls
15. S404 FRAMING DETAILS – See attachment.
    - Details updated for CIP foundation walls
16. S405 FRAMING DETAILS – See attachment.
    - Details updated for CIP foundation walls
17. A200 OVERALL GARAGE & FIRST FLOOR PLANS – See attachment.
    - Detail 1/A200, revised foundation, stair and elevator enclosure wall types.
18. A210A GARAGE PLAN – WEST. See attachment.
    - Detail 1/A210B, revised foundation and stair enclosure wall types, and revised west area well.
19. A210B GARAGE PLAN – EAST. See attachment.
    - Detail 1/A210B, revised foundation, stair and elevator enclosure wall types.
20. A220 UNIT PLANS. See attachment.
    - Detail 1, 2 & 3/A220, revised furring wall at a/c units.
21. A221 UNIT PLANS. See attachment.
    - Detail 1 & 2/A221, revised furring wall at a/c units.
22. A222 UNIT PLANS. See attachment.
    - Detail 1 & 2/A222, revised furring wall at a/c units.
23. A223 UNIT PLANS. See attachment.
    - Detail 1/A223, revised furring wall at a/c units.
24. A224 UNIT PLANS. See attachment.
    - Detail 1, 2 & 3/A221, revised furring wall at a/c units.
25. A250 DOOR SCHEDULE & GLAZING ELEVATIONS. See attachment.
    - Window Types, added Window Type 8.
26. A251 DOOR DETAILS. See attachment.
    - Details 2D, 3D, 6A & 6B/A251, revised foundation wall to concrete in lieu of CMU.
27. A302 EXTERIOR ELEVATIONS. See attachment.
    - Detail 3/A302, revised foundation wall below grade keynote from "CMU-2", to read "CONC".

28. A303 EXTERIOR ELEVATIONS. See attachment.
    - Detail 1/A303, revised foundation wall below grade keynote from “CMU-2”, to read “CONC”.
29. A420 VERTICAL CIRCULATION – STAIR 1 – See attachment.
    - Detail 1 & 3/A420, revised enclosure walls from CMU to concrete, add window type “8” at two locations.
30. A421 VERTICAL CIRCULATION – STAIR 2 – See attachment.
    - Details 1 & 2/A420, revised enclosure walls from CMU to concrete.
31. A422 VERTICAL CIRCULATION – ELEVATOR – See attachment.
    - Details 1, 2 & 3/A422, revised enclosure walls from CMU to concrete.
32. A501 EXTERIOR WALL SECTIONS – See attachment.
    - Details 1, 2, 3, 4, & 5/A501, revise foundation walls from CMU to concrete.
    - Detail 6/A501, revised foundation walls from CMU to concrete, and depth of area well.
33. A511 SECTION DETAILS – See attachment.
    - Details 1, 8, 9 & 12/A511, revised foundation walls from CMU to concrete.
34. A512 SECTION DETAILS – See attachment.
    - Detail 4A & 4C/A512, revised foundation walls from CMU to concrete.

END OF ADDENDUM

Minnesota Housing
Finance Agency

Multifamily - Intended Methods Worksheet

2016 MN Overlay to the 2015 Enterprise Green Communities Criteria

Project Name: Bottineau Ridge Apartments - Phase II
Location (City): Maple Grove
Developer/Owner/Borrower: Duffy Development
Architect of Record: JLG Architects
General Contractor:
HERS Rater/Energy Consult:
This Form Prepared By: JLG Architects
Date Last Updated: 12/4/2017

Submittal Phase:	Construction Type:
☑ Application	☑ New Construction
☐ Loan Commitment/ Loan Closing	☐ Substantial/ Gut Rehab
☐ End of Construction/ Construction Close-out	☐ Moderate Rehab

1. Multifamily New Construction projects must include all applicable "Mandatory" Criteria and at least (**35**) Optional Criteria Points.
2. Multifamily Substantial, Gut, and Moderate Rehab projects must include all applicable "Mandatory" Criteria and at least (**30**) Optional Criteria Points.
3. The information on this form must reference and reconcile with the 2015 Enterprise Green Communities Criteria as amended with the current/applicable version of the MN Overlay.

4. For developments with scattered sites, different construction types, or a combination of low rise and mid/high rise buildings - a separate Intended Methods & Certification form must be provided.
5. Items with text in red as such are proposed MN Overlay items.

C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP
1. Integrative Design Category									
1.1a	M	**Goal Setting** (Mandatory for all)	Develop an integrative design process that works best for your project team and intentions. At minimum, document: 1. A statement of the overall green development goals of the project and the expected intended outcomes from addressing those goals. 2. A summary of the integrative process that was used to select the green building strategies, systems and materials that will be incorporated into the project. 3. A description of how progress and success against these goals will be measured throughout the completion of design, construction and operation to ensure that the green features are included and correctly installed.	1.The project design team will conduct one or more integrative design meetings with all stakeholders, and develop a statement of goals. 2. One team member will be sustainability leader for the design team. 3. The green development goals will be implemented into the design documents and team will set dates in the design schedule to check progress towards these goals.	☑	☐	☐	☐	
1.1b	M	**Criteria Documentation** (Mandatory for all)	Create design and construction documentation to include information on implementation of appropriate Enterprise Green Communities Criteria.	The project team will integrate this information into documents as part of project scope.	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
1.1c	9	**Designing for Project Performance**	Identify how the expected performance of your project compares to the actual performance of other projects in your portfolio and/or community.	The project design team will identify how the expected performance of project compares to the actual performance of other projects in Owner's portfolio. Performance will be defined in terms of energy consumption or energy use intensity (EUI), water consumption and/or specific resident health indicators.	☑	☐	☐	☐	9
1.2a	M or 2	**Resident Health and Wellbeing: Design for Health** (Mandatory for NC) (2 Optional Points for Sub and Mod Rehab)	Identify potential resident health factors and design your project to address resident health and well-being by using the matrix provided on pages 22 and 23 of the 2015 EGCC document.	The project Design Team will select on of the following Possible Resident Health Campaign from the matrix: Injury & Accessibility, Cardiovascular Disease, Diabetes (Type II), and Obesity, or Cancer and Health Outcomes Related to Toxin Exposure , and incorporate at least one optional criterion (column four) associated with the selected Resident Health Campaign(s) into project documents.	☑	☐	☐	☐	
1.2b	12	**Resident Health and Wellbeing: Health Action Plan**	At pre-design and continuing throughout the project life cycle, collaborate with public health professionals and community stakeholders to assess, identify, implement and monitor achievable actions to enhance health-promoting features of the project and minimize features that could present health risks. Specifically, create a Health Action Plan and integrate the selected interventions and a plan for monitoring and evaluating progress per the full criterion.		☐	☑	☐	☐	0
1.3a	M	**Resilient Communities: Design for Resilience** (Mandatory for NC & Sub Rehab only)	Given your project building type, location and expected resident population, identify a project characteristic that would most likely impact your project's ability to withstand an unexpected weather event or loss of power. Select at least one criterion from the given list that would help mitigate that impact, and incorporate this within your project plans and design. Include a short narrative providing your rationale for selecting this criterion above the others.	The project Design Team will select one of the following criteria:1.3b: Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment, 3.6: Surface Stormwater Management, or 5.8a: Resilient Energy Systems: Floodproofing, and incorporate mitigation into the design. Possible paths: to meet 1.3b, 3.6 or 5.8a ***Yet TBD,***	☑	☐	☐	☐	
1.3b	15	**Resilient Communities: Multi-Hazard Risk/Vulnerability Assessment**	Carry out a Vulnerabilities Assessment and implement building elements designed to enable the project to adapt to, and mitigate, climate impacts given the project location, building/construction type and resident population	The project Design Team will evaluate this category as possible path to meet category 1.3a. **See 1.3a.**	☐	☑	☐	☐	

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					Yes	No	N/A	WR	OP

Subtotal Category 1 Selected Optional Points 9

2. Location + Neighborhood Fabric Category

Criteria 2 Overlay. *New Construction (NC) projects **are not** required to earn optional points under Criterion 2.8 Access to Public Transportation OR earn 8 optional points through selecting one or more of the following: Criterion 2.7, 2.9, 2.12, 2.13, or 2.14.*

2.1	M	**Sensitive Site Selection** (Mandatory for NC only)	Do not locate new projects, including buildings, built structures, roads or parking areas, on portions of sites that meet any of the following provisions: 1. Land within 100 feet of wetlands, including isolated wetlands or streams. Maintain or establish riparian buffer using native vegetation where possible. Bike and foot paths are allowed if at least 25 feet from the wetlands boundary. 2. Land on slope greater than 15% 3. Land with prime soils, unique soils or soils of state significance per USDA designations 4. Public parkland 5. Land that is specifically identified as an existing habitat for any species on federal or state threatened or endangered lists 6. Land that is within the Special Flood Hazard Areas (SFHA) as identified by FEMA on the Flood Insurance Rate Map	Project site meets this criteria and the project team will document and provide this information. **See attached Site Area Map.**	☑	☐	☐	☐	
2.2	M	**Connections to Existing Development and Infrastructure** (Mandatory for NC only) (See criteria for other exceptions)	Locate the project on a site with access to existing roads, water, sewers and other infrastructure within or contiguous to (having at least 25% of the perimeter bordering) existing development. Connect the project to the pedestrian grid	Project site meets this criteria and the project team will document and provide this information. **See drawing C401 for connections to surrounding roads, utility and pedestrian path connections.**	☑	☐	☐	☐	
2.3	M	**Compact Development** (Mandatory for NC only)	At a minimum, build to the residential density (dwelling units/acre) of the census block group in which your project is located.	Project site meets this criteria. The surrounding Residential Density is 2.65 per acre. Project site density for Phase I is 10.98 dwelling units per acre.	☑	☐	☐	☐	
2.4	5 or 7	**Compact Development**	Exceed the residential density (dwelling units/acre) of the census block group in which your project is located. Exceed by 2x for [5 points]; exceed by 3x for [7 points].	Project site meets this criteria and the project team will document and provide this information. **See attached Residential Density Map.**	☑	☐	☐	☐	7
2.5	M	**Proximity to Services** (Mandatory for NC only)	Locate the project within a 0.5-mile walk distance of at least four, or a 1-mile walk distance of at least seven, of the listed services. For projects that qualify as Rural/Tribal/Small Town, locate the project within 5 miles of at least four of the listed services.	Project site meets this criteria and the project team will document and provide this information. **See attached Community Map.**	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
2.6	M	**Preservation of and Access to Open Space for Rural/Tribal/Small Towns** (Mandatory for applicable NC only)	Set aside a minimum of 10% (minimum of 0.25 acre) of the total project acreage as non-paved open space for use by all residents OR locate the project within a 0.25-mile walk distance of dedicated public non-paved open space that is a minimum of 0.75 acres.	Project site design meets this criteria and the project team will document and provide this information. **See drawing L-1.**	☑	☐	☐	☐	
2.7	6 max	**Preservation of and Access to Open Space**	Set aside a percentage of non-paved open space for use by all residents. 20% [2 points]; 30% [4 points]; 40% + written statement of preservation/conservation policy for set-aside land [6 points].	Project site design has 30% of non-paved open space for se by all residence. **See Drawing C201.**	☑	☐	☐	☐	4
2.8	8 or 10	**Access to Public Transportation**	Locate projects within a 0.5-mile walk distance of transit services combined (bus, rail and/or ferry), constituting at least 60 or more transit rides per weekday, with some type of weekend ride option. [8 points] For projects that qualify as Rural/Tribal/Small Town, locate the project within a 5-mile distance of at least one of the following transit options: 1) vehicle share program; 2) dial-a-ride program; 3) employer vanpool; 4) park-and-ride; or 5) public–private regional transportation. [8 points] For an additional 2 points: Locate the project along dedicated bike trails or lanes that lead to transit services or stations (bus, rail and ferry) within 3 miles.	Project site meets this criteria and the project team will document and provide this information. **See Transportation Map attachment. Project within 0.5 miles of Maple Grove Transit Station.**	☑	☐	☐	☐	8
2.9	1 - 4	**Improving Connectivity to the Community**	Improve access to community amenities through at least one of the transit, auto or biking mobility measures listed.	The project team will identify outdoor bicycle racks that are accessible for visitors and residents. **See Drawing C201 for bike rack location.**	☑	☐	☐	☐	1
2.10	5 max	**Passive Solar Heating/Cooling**	Design and build with passive solar design, orientation and shading that meet specified guidelines.		☐	☑	☐	☐	
2.11	4	**Brownfield Site or Adaptive Reuse Building**	Rehabilitate an existing structure that was not previously used as housing or locate the project on a brownfield site.		☐	☑	☐	☐	

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					Yes	No	N/A	WR	OP
2.12	6	**Access to Fresh, Local Foods**	Pursue one of three options to provide residents and staff with access to fresh, local foods, including neighborhood farms and gardens, community-supported agriculture, or proximity to farmers markets.	There is a farmers Market in Maple Grove located on Weaver Lake Road, the design team will provide documentations. **See attached Community Map.**	☑	☐	☐	☐	6
2.13	4	**LEED for Neighborhood Development Certification**	Locate building(s) in a Stage 2 Pre-Certified or Stage 3 Certified Neighborhood Development.		☐	☑	☐	☐	
2.14	6 max	**Local Economic Development & Community Wealth Creation**	Demonstrate that local preference for construction employment and subcontractor hiring was part of your bidding process [2 points] OR demonstrate that you achieved at least 20% local employment [3 points] OR provide physical space for small business, nonprofits, and/or skills and workforce education [3 points].		☐	☑	☐	☐	
								Subtotal Category 2 Selected Optional Points	**26**

3. Site Improvements Category

3.1	M	**Environmental Remediation**	See Minnesota Housing Environmental Standards	The project Design Team will implement applicable Minnesota Housing Environmental Standards into the design. **Owner to provide Phase I Environmental Assessment. Building has vented underground garage to address radon.**	☑	☐	☐	☐	
3.2	M	**Erosion and Sedimentation Control** (Mandatory for all, except for infill sites with buildable area smaller than one acre)	Implement EPA's Best Management Practices for Construction Site Storm water Runoff Control, or local requirements, whichever is more stringent.	The project Design Team will implement applicable EPA's Best Management Practices for Construction Site Storm water Runoff Control, or local requirements, whichever is more stringent, into the design. **See Drawing C604.**	☑	☐	☐	☐	
3.3	M	**Low Impact Development** (Mandatory only for projects located on Greenfields)	Projects located on Greenfields must meet the list of low-impact development criteria.	The project is not located on greenfield.	☐	☑	☐	☐	
3.4	M	**Landscaping** (Mandatory for all)	If providing plantings, all should be native or adapted to the region, appropriate to the site's soil and microclimate, and none of the new plants is an invasive species. Reseed or xeriscape all disturbed areas.	The project Design Team will use native or adapted plant species in the design. **See Drawing L-1**	☑	☐	☐	☐	
3.5a	M	**Efficient Irrigation and Water Reuse** (Mandatory if irrigation is used)	If irrigation is used, install an efficient irrigation or water reuse system per the guidelines.	The project Design Team will specify efficient irrigation system in the design. ***Coordinate with Loucks & ONE.***	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
3.5b	4 or 8	**Efficient Irrigation and Water Reuse**	Install an efficient irrigation system equipped with a WaterSense-labeled weather-based irrigation controller (WBIC) OR at least 50% of the site's irrigation should be satisfied by reusing water.		☐	☑	☐	☐	
3.6	4 or 8	**Surface Storm water Management**	Retain, infiltrate and/or harvest the first 1.0 inch of rain that falls [4 points] OR as calculated for a 24-hour period of a one-year (1) storm event, so that no storm water is discharged to drains/inlets. [8 points] For both options, permanently label all storm drains and inlets.		☐	☑	☐	☐	
3.7	1	**Reducing Heat Island Effect: Paving**	Use light-colored, high-albedo materials and/or an open-grid pavement, with a minimum solar reflectance of 0.3, over at least 50% of the site's hardscaped area.		☐	☑	☐	☐	

Subtotal Category 3 Selected Optional Points **0**

4. Water Conservation Category

4.1	M or 6	**Water-Conserving Fixtures** (Mandatory for NC and Sub Rehab only) (Optional/5 points for Mod Rehab)	Install water-conserving fixtures in all units and any common facilities with the following specifications. Toilets: WaterSense-labeled and 1.28 gpf; Urinals: WaterSense-labeled and 0.5 gpf; Showerheads: WaterSense-labeled and 2.0 gpm; Kitchen faucets: 2.0 gpm; Lav faucets: WaterSense- labeled and 1.5 gpm. AND for all single-family homes and all dwelling units in buildings three stories or fewer, the static service pressure must not exceed 60 psi. Optional Mod Rehab points: All Toilets = 1 point, All Urinals = 1 point, All Showerheads = 1 point, All Kitchen Faucets = 1 point, and/or All Lavatory Faucets = 1 point.	The project Design Team will specify water-conserving fixtures in all units and common facilities meeting this category requirements. **See Specification Section 22 4000 Plumbing Fixtures**	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
4.2	6 max	**Advanced Water Conservation**	Reduce water consumption either by installing water-conserving fixtures in all units and all common space bathrooms with the following specifications: Toilets: WaterSense-labeled and 1.1 gpf [1 point]; Showerheads: WaterSense-labeled and 1.5 gpm [1 point]; Kitchen faucets: 1.5 gpm and lav faucets: WaterSense-labeled and 1.0 gpm [1 point] OR Reduce total indoor water consumption by at least 30% compared to the baseline indoor water consumption chart, through a combination of your choosing. [6 points maximum]		☐	☑	☐	☐	
4.3	4	**Leaks & Water Metering**	Conduct pressure-loss tests and visual inspections to determine if there are any leaks; fix any leaks found; and meter or submeter each dwelling unit with a technology capable of tracking water use. Separately meter outdoor water consumption	The contractor will conduct pressure-loss tests and visual inspections to determine any leak, and fix any leaks found. The Owner is planning to submeter each unit and outdoor water usage. **This wasn't accepted at 16.06.15 submittal**	☐	☑	☐	☐	
4.4	4	**Efficient Plumbing Layout & Design**	To minimize water loss from delivering hot water, the hot water delivery system shall store no more than 0.5 gallons of water in any piping/manifold between the hot water source and any hot water fixture.	The project design will meet this criteria. **This wasn't accepted at 16.06.15 submittal.**	☐	☑	☐	☐	
4.5	6 max	**Water Reuse**	Harvest, treat, and reuse rainwater and/or greywater to meet a portion of the project's total water needs: 10% reuse [3 points]; 20% reuse [4 points]; 30% reuse [5 points]; 40% reuse [6 points].		☐	☑	☐	☐	
4.6	Omit	**Access to Potable Water during Emergencies**	Not allowed if the project receives funding from Minnesota Housing.		☐	☑	☑	☐	

Subtotal Category 4 Selected Optional Points **0**

5. Energy Efficiency Category

5.1a	M	**Building Performance Standard: NC Energy Star for Homes** (Mandatory for NC SF and Low Rise MF)	Certify each dwelling unit in the project through the ENERGY STAR New Homes program.	The Owner will certify each unit with Energy Star New Homes program. **See Energy Star Report**	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
5.1b	M	**Building Performance Standard: NC ASHRAE 90.1/Energy Star MFHR** (Mandatory for NC 4 &5 + NC 6 Story or more)	Follow one of Three Compliance Pathways: 1) Buildings 4 Stories or more WITH Heated Garage. 2) Buildings 4 Stories or more WITHOUT Heated Garage. 3) Buildings with up to 5 Stories (dwelling units with own heating, cooling, and hot water heating) WITH or WITHOUT a Heated Garage.	The proposed building has 4 stories without unheated garage. The project Design Team will design to meet this category energy Standard. **The building will be evaluated per 5.1a above.**	☐	☑	☐	☐	
5.1c	M	**Building Performance Standard** (Mandatory for Sub and Mod Rehab: single family and low-rise multifamily)	For Sub Rehab, each dwelling unit, achieve a HERS Index score of 85 or less. For Mod Rehab, Performance Pathway HERS 85 or 100; Or, Overlay Prescriptive Pathway.		☐	☑	☐	☐	
5.1d	M	**Building Performance Standard:** (Mandatory for Sub and Mod Rehab: mid-rise and high-rise multifamily)	For Sub Rehab, each dwelling unit, follow a Performance Pathway and demonstrate equivalent performance to ASHRAE 90.1-2010. For Mod Rehab, each dwelling unit, follow Performance Pathway; Or, Prescriptive Pathway.		☐	☑	☐	☐	
5.2a	5 - 12	**Additional Reductions in Energy Use**	Design and construct a building that is projected to be at least 5% more efficient than what is required of the project by Criteria 5.1a–d. (Projects may receive points in Criteria 5.2a or 5.2b, but not both)		☐	☑	☐	☐	
5.2b	12	**Advanced Certification: Nearing Net Zero**	Certify the project in a program that requires advanced levels of building envelope performance such as PHIUS, Living Building Challenge and/or DOE Zero Energy Ready Home. (Projects receiving points in Criterion 5.2b may not receive points per Criterion 5.2a)		☐	☑	☐	☐	
5.3	M	**Sizing of Heating and Cooling Equipment** (Mandatory for NC and Rehab if scope of work includes HVAC work)	Size and select heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals J and S or ASHRAE handbooks.	We will provide documentation. **See Sheet M500.**	☑	☐	☐	☐	
5.4	M	**ENERGY STAR Appliances** (Mandatory for NC and for Rehab if new appliances are included in the scope of work)	If providing appliances, install ENERGY STAR clothes washers, dishwashers and refrigerators. If appliances will not be installed or replaced at this time, specify that, at the time of installation or replacement, ENERGY STAR models must be used.	We will provide documentation. **See Specification Section 11 3100 Residential Appliances**	☑	☐	☐	☐	
5.5	M	**Lighting** (Mandatory for NC and for "any new" fixtures at Rehab)	Follow the guidance for high-efficacy lighting controls and other characteristics for any new permanently installed lighting fixtures in project dwelling units, common spaces and exterior	The project Design Team will design high-efficiency lighting to meet this category standard. **See Drawing E510 Lighting Schedule.**	☑	☐	☐	☐	

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C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP
5.6	M - 6	**Electricity Meter** (Mandatory for New Construction and Substantial Rehab) (Optional 6 points for Mod Rehab)	Install individual or submetered electric meters for all dwelling units.	The owner is planning to submeter all dwelling units. **See Drawings E300-E302 Unit Plans Electrical**	☑	☐	☐	☐	
5.7a	4	**Photovoltaic/Solar Hot Water Ready**	Orient, design, engineer, wire and/or plumb the development to accommodate installation of photovoltaic (PV) or solar hot water system in the future.		☐	☑	☐	☐	
5.7b	10 max	**Renewable Energy**	Install photovoltaic (PV) panels or other electric-generating renewable energy source to provide a specified percentage of the project's estimated total energy demand or water heating energy demand. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)		☐	☑	☐	☐	
5.8a	8	**Resilient Energy Systems: Floodproofing**	Conduct floodproofing, including perimeter floodproofing (barriers/shields), of lower floors. Design and install building systems as specified by the full criterion so that the operation of those systems will not be grossly affected in case of a flood.		☐	☑	☐	☐	
5.8b	8	**Resilient Energy Systems: Islandable Power**	Provide emergency power through an islandable photovoltaic (PV) system or an efficient and permanent generator that will offer at least limited electricity for critical circuits during power outages per one of the three options listed. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)		☐	☑	☐	☐	
				Subtotal Category 5 Selected Optional Points					**0**

6. Materials Category

6.1	M	**Low/No VOC Paints, Coatings and Primers** (Mandatory for NC and for Rehab if included in scope of work)	All interior paints and primers must have VOC levels, in grams per liter, less than or equal to the thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113.	The project Design Team will specify low level VOC products to meet thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113. **See Specification 09 9000 Painting and Coatings**	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
6.2	M	**Low/No VOC Adhesives and Sealants** (Mandatory for NC and for Rehab if included in scope of work)	All adhesives and sealants (including caulks) must have VOC levels, in grams per liter, less than or equal to the thresholds established by the South Coast Air Quality Management District Rule 1168.	The project Design Team will specify low level VOC products to meet thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113. **See Specification 07 9200 Joint Sealants.**	☑	☐	☐	☐	
6.3	3 max	**Recycled Content Material**	Incorporate building materials that are composed of at least 25% post-consumer recycled content or at least 50% post-industrial recycled content. [1 point] Building materials that make up at least 75% of their project component each receive 1 point.		☐	☑	☐	☐	
6.4	4 max	**Regional Material**	Use products that were extracted, processed and manufactured within 500 miles of the project for a minimum of 50%, based on cost, of the building materials' value. Select any or all of these options (each material can qualify for 1 point): • Framing materials • Exterior materials (e.g., siding, masonry, roofing) • Flooring materials • Concrete/cement and aggregate material • Drywall/interior sheathing materials	The owner will review opportunities to use concrete and/or framing materials from locale source.	☐	☑	☐	☐	1
6.5	1	**Certified, Salvaged and Engineered Wood Products**	For at least 25% of all structural wood products, by cost or value, commit to using either FSC-certified, salvaged products or engineered framing materials without urea formaldehyde.		☐	☑	☐	☐	
6.6	M	**Composite Wood Products that Emit Low/No Formaldehyde** (Mandatory for NC and for Rehab if in scope of work)	All composite wood products must be certified as compliant with California 93120 Phase 2 OR, if using a composite wood product that does not comply with California 93120 Phase 2, all exposed edges and sides must be sealed with low-VOC sealants, per Criterion 6.2.	The project Design Team will incorporate this requirement into design documents, and the Contractor will use wood product certified as compliant with California 93120 Phase 2. **See Specification Sections 06 1000 Rough Carpentry, 06 1753 Shop-Fabricated Wood Trusses & 06 2000 Finish Carpentry.**	☑	☐	☐	☐	

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C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP
6.7a	M	**Environmentally Preferable Flooring** (Mandatory for NC and for Rehab if new flooring in the scope of work)	Do not install carpets in building entryways, laundry rooms, bathrooms, kitchens/kitchenettes, utility rooms or any rooms built on foundation slabs (aka Ground-connected Concrete Slabs). Exceptions: 1) Properly installed vapor barrier, 2) Functioning drain tile, 3) Capillary Break and vapor barrier, or 4) Poly-film test confirmation	The project Design Team will incorporate this requirement into design documents. **See Drawings A610 for Room Finish Schedules.**	☑	☐	☐	☐	
6.7b	6	**Environmentally Preferable Flooring Throughout**	Use non-vinyl, non-carpet floor coverings throughout each building in the project.		☐	☑	☐	☐	
6.8	M	**Mold Prevention: Surfaces** (Mandatory for all)	Use materials that have durable, cleanable surfaces throughout bathrooms, kitchens and laundry rooms. Materials installed in these rooms should not be prone to deterioration due to moisture intrusion or encourage the growth of mold.	The project Design Team will incorporate this requirement into design documents. **See Drawings A610 for Room Finish Schedules.**	☑	☐	☐	☐	
6.9	M	**Mold Prevention: Tub and Shower Enclosures** (Mandatory for NC and Rehab if applicable shower or bathroom work is in the scope of work)	Use moisture-resistant backing materials such as cement board, fiber cement board or equivalent per ASTM #D3273 behind tub/shower enclosures. Projects using a one-piece fiberglass tub/shower enclosure are exempt from this requirement.	The project Design Team will incorporate this requirement into design documents. **See Specification Section 22 4000 Plumbing Fixtures.**	☑	☐	☐	☐	
6.10	12 max	**Asthmagen-free Materials**	Do not install products that contain ingredients that are known to cause or trigger asthma. Key products to avoid are: • Insulation: Do not use spray polyurethane foam (SPF) or formaldehyde-containing fiberglass batts. [4 points] • Flooring: Do not use flexible vinyl (PVC) roll or sheet flooring or carpet-backed with vinyl with phthalates. Do not use fluid applied finish floors. [4 points] • Wall coverings: Do not use wallpaper made from vinyl (PVC) with phthalates or site-applied high-performance coatings that are epoxy or polyurethane based. [4 points] • Composite wood: Use only ULEF products for cabinetry, subflooring and other interior composite wood uses. [4 points]	The project Design Team will not use wallpaper made from vinyl (PVC) with phthalates or site-applied high-performance coatings that are epoxy or polyurethane based in project design. **See Specification Section 09 9000 Painting and Coating.**	☑	☐	☐	☐	4

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					Yes	No	N/A	WR	OP
6.11	5	**Reduced Heat-Island Effect: Roofing**	Use an ENERGY STAR–certified roofing product for 100% of the roof area OR install a "green" (vegetated) roof for at least 50% of the roof area and ENERGY STAR–certified roofing product for the remainder of the roof area.		☐	☑	☐	☐	
6.12	M - 6	**Construction Waste Management** (Mandatory minimum requirements for all projects. Optional points are available for projects that go beyond mandatory.)	Commit to following a waste management plan that reduces non-hazardous construction and demolition waste through recycling, salvaging or diversion strategies through one of the three options. Achieve optional points by going above and beyond the requirement [6 points max].	The project Design Team will incorporate this requirement into the project specifications. **See Specification Section 01 7419.**	☑	☐	☐	☐	
6.13	3	**Recycling Storage for Multifamily Project**	Provide separate bins for the collection of trash and recycling for each dwelling unit and all shared community rooms (if applicable). Additionally, in multifamily buildings, provide at least one easily accessible, permanent and dedicated indoor area for the collection and storage of materials for recycling. In single-family homes, points will be accrued only if curb-side recycling pickup is available. Collected materials should include, at a minimum, paper, cardboard, glass, metals and plastics.		☑	☐	☐	☐	3
								Subtotal Category 6 Selected Optional Points	**8**

7. Healthy Living Environment Category

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C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP
7.1	M	**Ventilation** (Mandatory for all including Moderate Rehab)	For each dwelling unit, in full accordance with ASHRAE 62.2-2010, install a local mechanical exhaust system in each bathroom a local mechanical exhaust system in each kitchen and a whole-house mechanical ventilation system For each multifamily building of four stories and more, in full accordance with ASHRAE 62.1-2010, install a mechanical ventilation system for all hallways and common spaces For all project types, in addition to the above requirements: • All systems and associated ductwork must be installed per manufacturer's recommendations. • All individual bathroom fans must be ENERGY STAR labeled, wired to turn on with the light switch, and equipped with a humidistat sensor, timer or other control (e.g., occupancy sensor, delay off switch, ventilation controller). • If using central ventilation systems with rooftop fans, each rooftop fan must be direct-drive and variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000 must also have an ECM	The project Design Team will incorporate this requirement into the design. **See Sheets M200A thru M204B.**	☑	☐	☐	☐	
7.2	M	**Clothes Dryer Exhaust** (Mandatory for all)	Clothes dryers must be exhausted directly to the outdoors using rigid-type ductwork (except for condensing dryers, which must be plumbed to a drain).	The project Design Team will incorporate this requirement into the design. **See Drawings M330 thru M332**	☑	☐	☐	☐	
7.3	M	**Combustion Safety** (Mandatory for all)	At NC, only provide in-unit space and water heating with power-vented or closed (sealed) combustion equipment. At Rehab, replace existing in-unit space and water heating natural draft combustion equipment with new power-vented or closed (sealed) combustion equipment. If existing natural draft combustion equipment is planned to remain, a combustion action plan with post-combustion testing must be provided.	The project Design Team will incorporate this requirement into the design. ***Coordinate response with ONE.***	☑	☐	☐	☐	

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C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP
7.4	9 or 11	**Elimination of Combustion within the Conditioned Space** (Optional points for NC and Rehab)	No combustion equipment may be used for cooking (including, but not limited to, ranges, cooktops, stoves, ovens) as part of the building project for NC or existing combustion equipment replaced with electric equipment [9 points] OR no combustion equipment may be used as part of the building project [11 points]	No combustion equipment is planned to be used in individual dwelling units. **See Specification Section 11 3100 Residential Appliances.**	☑	☐	☐	☐	9
7.5	M	**Vapor Retarder Strategies** (Mandatory for NC and for Rehab projects with foundation work)	Install vapor barriers that meet specified criteria appropriate for the foundation type.	The project Design Team will incorporate this requirement into the design. **See Drawings 1A & 2A/A501.**	☑	☐	☐	☐	
7.6	M	**Water Drainage** (Mandatory for NC and Rehab projects replacing assemblies called out in Criterion only)	Provide drainage of water away from walls, windows and roofs by implementing the list of techniques.	The project Design Team will incorporate this requirement into the design. **See Drawings 1A & 2A/A501.**	☑	☐	☐	☐	
7.7	M	**Mold Prevention: Water Heaters** (Mandatory for all)	Provide adequate drainage for water heaters that includes drains or catch pans with drains piped to the exterior of the dwelling.	The project Design Team will incorporate this requirement into the design. **See Sheets P100A thru P105B.**	☑	☐	☐	☐	
7.8	M	**Radon Mitigation** (Mandatory for all)	See Minnesota Housing Environmental Standards for Radon requirements.	The project Design Team will implement applicable Minnesota Housing Environmental Standards into the design. **Building has underground parking, passive radon system not required.**	☑	☐	☐	☐	
7.9	M	**Garage Isolation** (Mandatory for all)	• Provide a continuous air barrier between the conditioned space and any garage space to prevent the migration of any contaminants into the living space. • Visually inspect common walls and ceilings between attached garages and living spaces to ensure that they are air-sealed before insulation is installed. • Do not install ductwork or air handling equipment in a garage. • Fix all connecting doors between conditioned space and garage with gaskets or otherwise make substantially airtight with weather stripping. • Install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone of the project, placed per National Fire Protection Association (NFPA) 720.	The project Design Team will incorporate this requirement into the design. **See Drawings G106 and G111 for air sealing of garage from the residents above. No ductwork or air handling equipment serving spaces beside the garage level is in the garage. See Drawing A250 Door Schedule and Specification Section 08 7100 Door Hardware, See Sheets E300, E301, E302, E303**	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
7.10	M	**Integrated Pest Management** (Mandatory for all)	Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.	The project Design Team will incorporate this requirement into the design. **See Specification Section 07 9200.**	☑	☐	☐	☐	
7.11a	9	**Beyond ADA: Universal Design** (NC)	Design a minimum of 15% of the dwelling units (no fewer than one) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines. Design the remainder of the ground-floor units and elevator-reachable units in accordance with ICC/ANSI A117.1, Type B.		☐	☑	☐	☐	
7.11b	7 or 9	**Beyond ADA: Universal Design** (Substantial and Moderate Rehab only)	Design a minimum of 10% of the dwelling units (one, at minimum) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines. [7 points] For an additional 2 points: Design the remainder of the ground-floor units and elevator-reachable units with accessible unit entrances designed to accommodate people who use a wheelchair.		☐	☑	☐	☐	
7.12	M	**Active Design: Promoting Physical Activity within the Building** (Mandatory for all)	Situate at least one building stairway per the criterion to encourage use OR emphasize at least one strategy inside the building designed to increase frequency and duration of physical activity per the criterion.	The project Design Team will incorporate this requirement into the design. **See Drawings A200 thru A202 for easily accessed stair locations. Owner to provide point-of-decision signage at building entry and corridor intersections**	☑	☐	☐	☐	
7.13	10	**Active Design: Staircases and Building Circulation**	A staircase must be accessible and visible from the main lobby as well as visible within a 25-foot walking distance from any edge of lobby. Ensure that no turns or obstacles prevent visibility of or accessibility to the qualifying staircase from the lobby, and that the staircase is encountered before or at the same time as the elevators. From the corridor, accessible staircases should be made visible by: Providing transparent glazing of at least 10 square feet (1 square meter) at all stair doors or at a side light OR providing magnetic door holds on all doors leading to the stairs OR removing door enclosures/vestibules.	The project Design Team will review opportunities to incorporate this requirement into the design. **See Drawings A200 and A201 for monumental stair that connects First and Second Floors within the two-story Lobby space.**	☑	☐	☐	☐	10

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					Yes	No	N/A	WR	OP
7.14	9	**Interior and Outdoor Activity Spaces for Children and Adults** (Applicable to NC and to Rehab if existing, older, worn equipment replaced)	Provide an on-site dedicated recreation space with exercise or play opportunities for adults and/or children that is open and accessible to all residents; see criterion for specifics.	The project Design Team will review opportunities to incorporate this requirement into the design. See **Drawing A201 for Fitness Room on the second floor, and Drawing C201 for location of outdoor Play Area.**	☑	☐	☐	☐	9
7.15	M	**Reduce Lead Hazards** (Mandatory for all Rehab)	See Minnesota Housing Environmental Standards for Lead-Bases Paint Hazard requirements		☐	☑	☑	☐	
7.16	10	**Smoke-Free Building**	Implement and enforce a no-smoking policy in all common and individual living areas and within a 25-foot perimeter around the exterior of all residential projects.	The building will be smoke-free.	☑	☐	☐	☐	10

Subtotal Category 7 Selected Optional Points **38**

8. Operations, Maintenance and Resident Engagement Category

8.1	M	**Building Maintenance Manual** (Mandatory for all multifamily projects)	Develop a manual with thorough building operations and maintenance guidance and a complementary plan. The manual and plan should be developed over the course of the project design, development and construction stages, and should include sections/chapters addressing the list of topics.	The Owner and Contractor will develop building operations manual and maintenance guidance, and a complementary plan.	☑	☐	☐	☐	
8.2	M	**Emergency Management Manual** (Mandatory for all multifamily projects)	Provide a manual on emergency operations targeted toward operations and maintenance staff and other building-level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate housing throughout an emergency and cover a range of topics, including but not limited to: • communication plans for staff and residents • useful contact information for public utility and other service providers • infrastructure and building "shutdown" procedures	The Owner with Contractor, and project Design Team will develop building emergency operations and maintenance namual.	☑	☐	☐	☐	

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					Yes	No	N/A	WR	OP
8.3	M	**Resident Manual** (Mandatory for all)	Provide a guide for homeowners and renters that explains the intent, benefits, use and maintenance of their home's green features and practices. The Resident Manual should encourage green and healthy activities per the list of topics	The Owner will develop building resident manual and maintenance guidance. and a complementary plan.	☑	☐	☐	☐	
8.4	M	**Resident and Property Staff Orientation** (Mandatory for all)	Provide a comprehensive walk-through and orientation for all residents, property manager(s) and buildings operations staff. Use the appropriate manuals (see Criteria 8.1, 8.2, 8.3) as the base of the curriculum, and review the project's green features, operations and maintenance procedures, and emergency protocols.	The Contractor and Owner will provide comprehensive walk-through and orientation for all residents, property manager(s) and buildings operations staff to review the project's green features, operations and maintenance procedures, and emergency protocols.	☑	☐	☐	☐	
8.5	O	**Project Data Collection and Monitoring System: 100% Owner Paid Utility Accounts, 15% Tenant Paid Utility Accounts** (Optional, no points)	For rental properties: Collect and monitor project energy and water performance data for 100% of owner-paid utilities and 15% of tenant-paid utilities for at least 5 years. This data must be maintained in a manner that allows staff to easily access and monitor it, enabling them to make informed operations and capital planning decisions. Also allow Enterprise access to this data. For owner-occupied units: Collect and monitor energy and water performance data in a manner that allows for easy access and review and provides the ability to influence home operations. Also allow Enterprise access to this data.		☐	☑	☐	☐	
8.6	7 or 11	**Project Data Collection and Monitoring System: >15% Tenant Paid Utility Accounts** (Must include Criteria 8.5 requirements as well to claim 8.6 Criteria points)	Collect and monitor project energy and water performance data for at least 5 years. This data must be maintained in a manner that allows staff to easily access and monitor it, enabling them to make informed operations and capital planning decisions. Also allow Enterprise access to this data. 16–60% of units [7 points]; 60–100% of units [11 points]		☐	☑	☐	☐	

Subtotal Category 8 Selected Optional Points **0**

Total **81**

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					Yes	No	N/A	WR	OP

Intent to Comply Certification - Initial Application Phase

I/we hereby certify to Minnesota Housing that all applicable Mandatory and selected Optional Point Criteria of the 2015 Enterprise Green Communities Criteria as amended by the current/applicable version of the MN Overlay to the 2015 EGCC (unless exempt by Minnesota Housing approved waiver) are incorporated into the approved contract documents for the above mentioned development.

Borrower/Developer/Owner

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date

Architect of Record/Borrower's Architect

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date

Contract Document Compliance Certification - Loan Commitment/Closing (MF Only) Phase

I/we hereby certify to Minnesota Housing that all applicable Mandatory and selected Optional Point Criteria of the 2015 Enterprise Green Communities Criteria as amended by the current/applicable version of the MN Overlay to the 2015 EGCC (unless exempt by Minnesota Housing approved waiver) are incorporated into the approved contract documents and construction contract for the above mentioned development.

Borrower/Developer/Owner

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
Bottineau Ridge II of Maple Grove LP		Jeffrey J. Vonfeldt	3/15/18

Architect of Record/Borrower's Architect

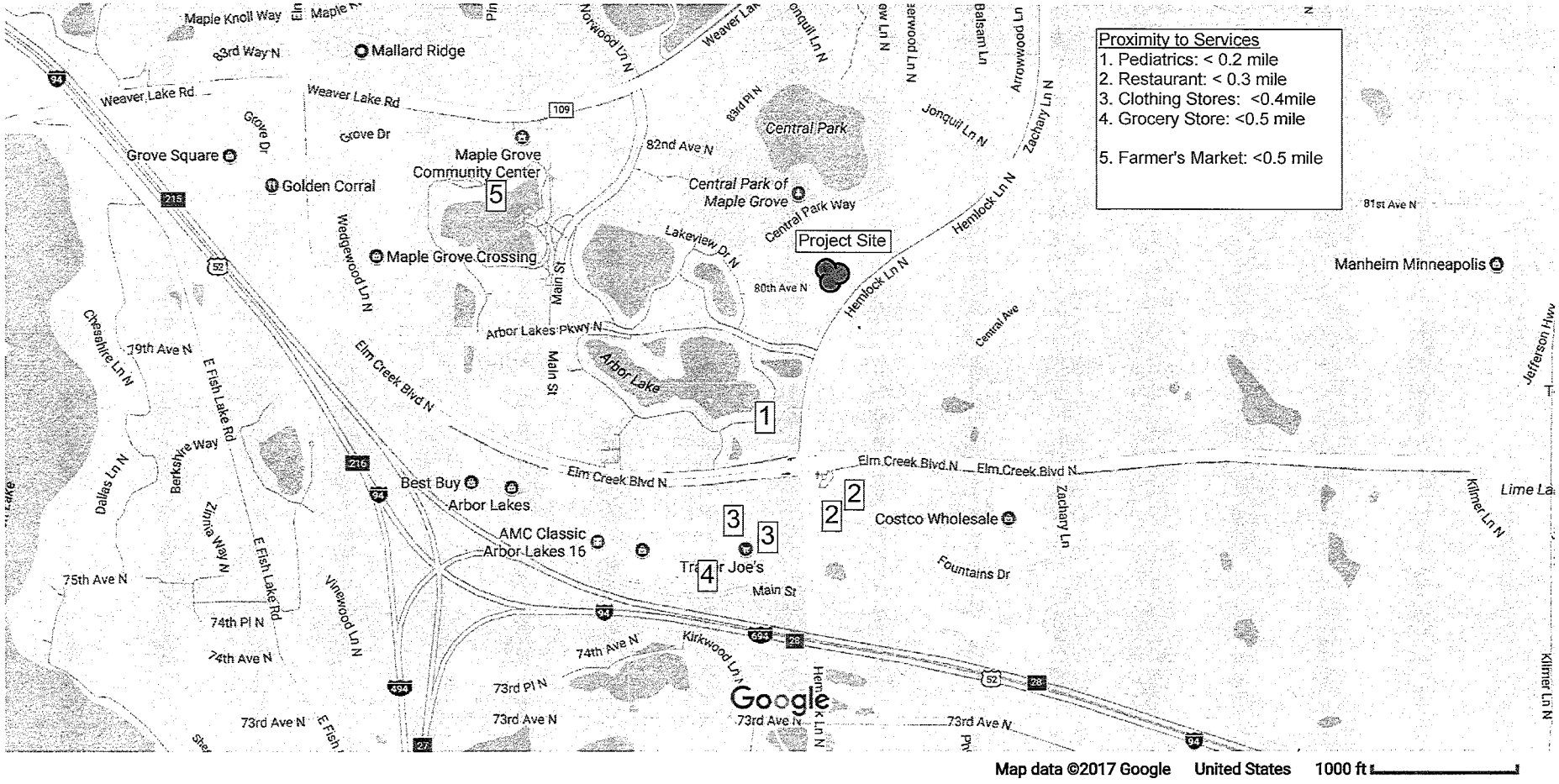
Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
JLG ARCHITECTS		NICOLE WASHBURN, AIA	3/15/18

General Contractor

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
Lumber One, Avon Inc.		Barbara J. Brandes	03/15/2018

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Community Map



Residential Density Map

CNT Sustainable Communities Attainable Results.

Find the Residential Density of a Location

11800 80th Ave N, Maple Grove, MN 55369, USA

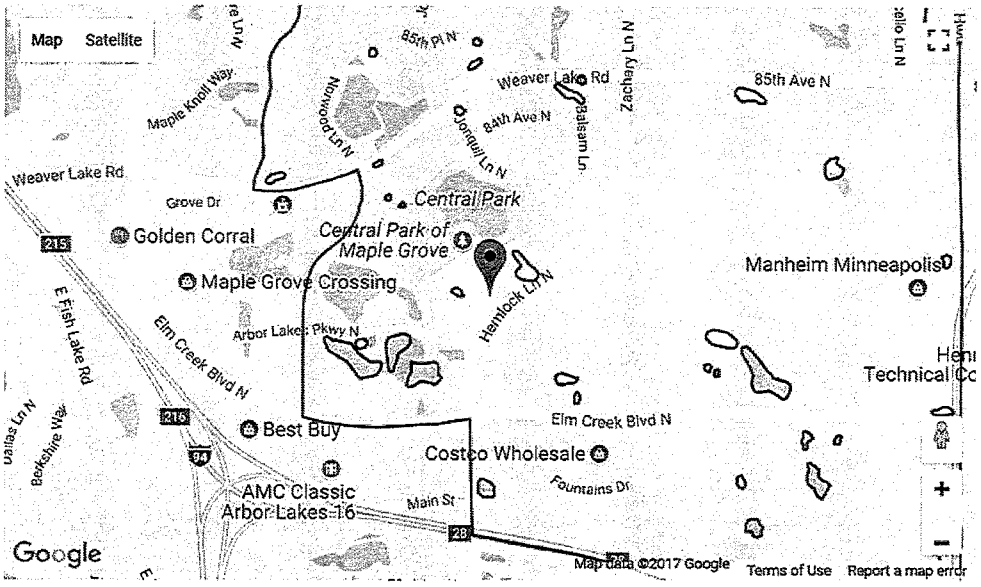
Residential Density

2.65 **households per acre**

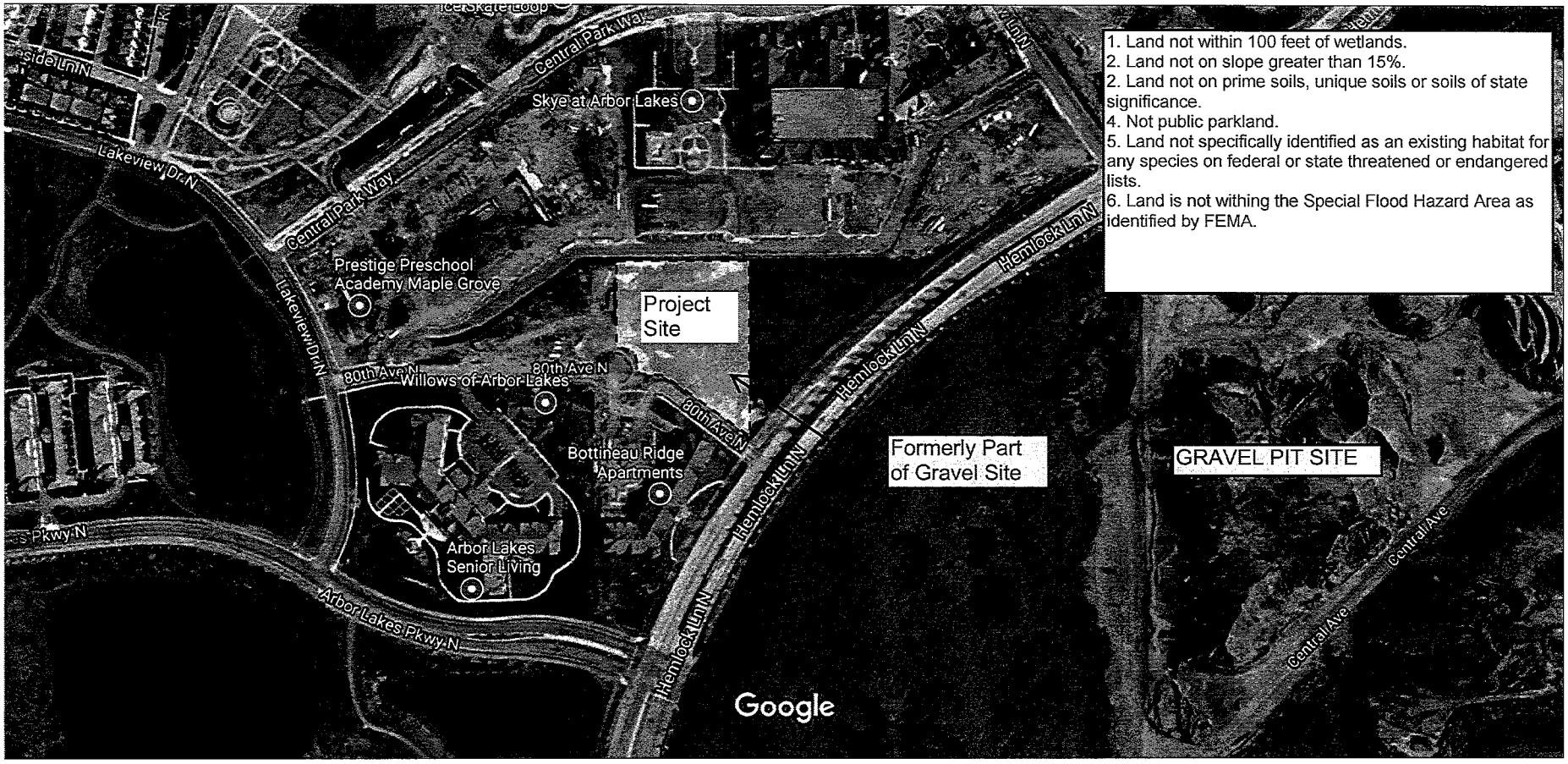
Residential density, as calculated here, represents household density of residential areas, in contrast to population density on total land area. By the same methods utilized for the H+T Index, this calculator retrieves residential density estimates for any address in the country. Using the 2010 U.S. Census Summary File 1, total households are obtained at the block level. Blocks are then selected on the criteria that gross density (households per land acre) must be greater than one. From these selected blocks, both households and land acres are aggregated to the block group level, at which level residential density is calculated.

This address-level tool for our residential density calculation was developed by CNT with support from Enterprise.

Enterprise green communities

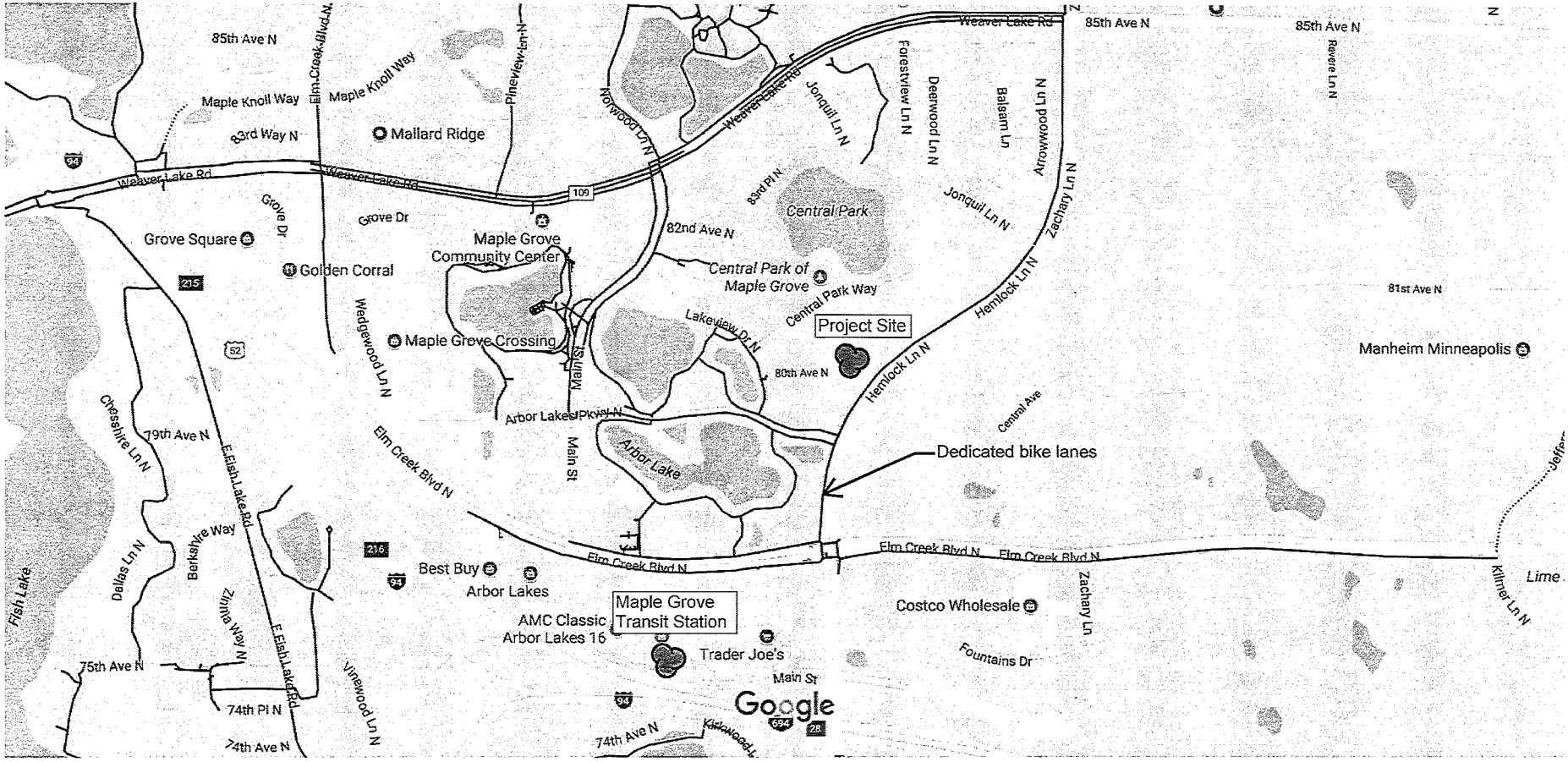


Site Area Map



Imagery ©2017 Google, Map data ©2017 Google United States 200 ft

Transit Map



Proximity to Transit
Maple Grove Transit Station: < 0.5 mile

CNT Sustainable Communities Attainable Results.

Find the Residential Density of a Location

11800 80th Ave N, Maple Grove, MN 55369, USA

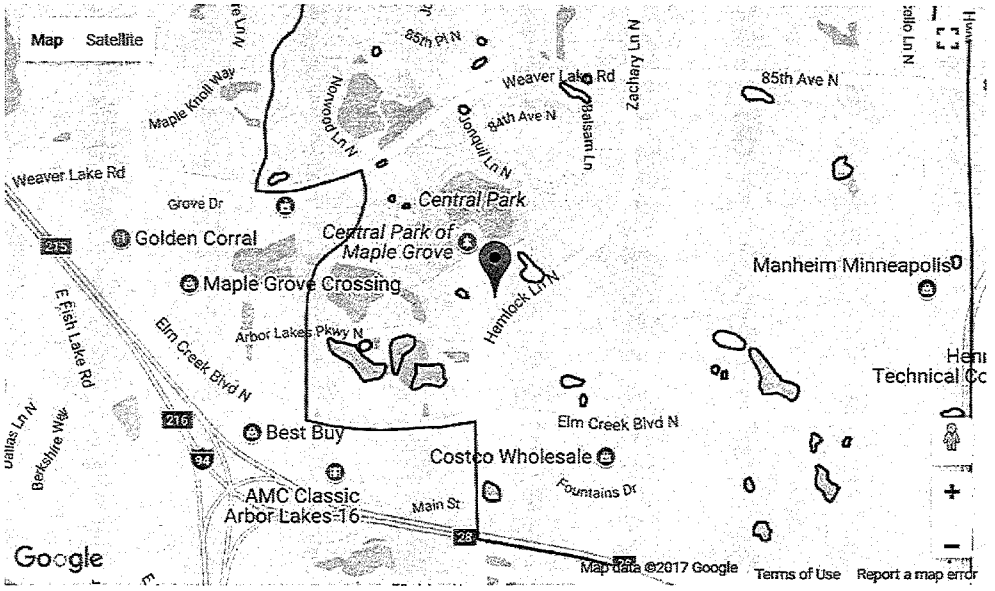
Residential Density

2.65 households per acre

Residential density, as calculated here, represents household density of residential areas, in contrast to population density on total land area. By the same methods utilized for the H+T Index, this calculator retrieves residential density estimates for any address in the country. Using the 2010 U.S. Census Summary File 1, total households are obtained at the block level. Blocks are then selected on the criteria that gross density (households per land acre) must be greater than one. From these selected blocks, both households and land acres are aggregated to the block group level, at which level residential density is calculated.

This address-level tool for our residential density calculation was developed by CNT with support from Enterprise.

Enterprise green communities



JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN



UNIT MATRIX

	SF	1ST FLR	2ND FLR	3RD FLR	4TH FLR	TOTAL
UNIT 1A	734		1	1	3	5
UNIT 1A, TYPE A	734	1				1
UNIT 2A	1033	3	1	2	2	8
UNIT 2A, TYPE A	1033		1			1
UNIT 2A*	1101		1	1	1	3
UNIT 2A**	1085	1	1	1	1	4
UNIT 2B	994	1	1	1	1	4
UNIT 2C	1124	1	1	1	1	4
UNIT 3A	1364	1	1		1	3
UNIT 3A, TYPE A	1364			1		1
UNIT 3B	1271	2	3	3	3	11
UNIT 3C	1474			1		1
UNIT 4A	1633	1	1	1	1	4
TOTAL UNIT COUNT		11	12	13	14	50

BOTTINEAU RIDGE II APARTMENTS
11800 80TH AVE N.
MAPLE GROVE MN

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
GENERAL	
G100	COVER SHEET
G101	TITLE SHEET
G106	TYPICAL ASSEMBLIES
G107	TYPICAL ASSEMBLIES
G110	LIFE SAFETY PLANS
G111	LIFE SAFETY PLANS
G120	MOUNTING HEIGHTS
CIVIL	
C101	EXISTING CONDITIONS
C201	SITE PLAN
C301	GRADING PLAN
C401	UTILITY PLAN
C501	EROSION CONTROL PLAN
C601	CIVIL DETAILS
C602	CIVIL DETAILS
C603	CIVIL DETAILS
C604	EROSION CONTROL DETAILS
C605	SWPPP NARRATIVE
LANDSCAPE	
C-1	PRELIMINARY PLAT SIGNATURE PAGE
C-3	PRELIMINARY PLAT
L-1	LANDSCAPE PLAN
L-2	LANSCAPE PLAN
L-3	LANDSCAPE NOTES & DETAILS
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	SPECIAL INSPECTIONS
S101A	FOUNDATION PLAN "WEST"
S101B	FOUNDATION PLAN "EAST"
S201A	FIRST FLOOR FRAMING PLAN "WEST"
S201B	FIRST FLOOR FRAMING PLAN "EAST"
S202A	SECOND FLOOR FRAMING PLAN "WEST"
S202B	SECOND FLOOR FRAMING PLAN "EAST"
S203A	THIRD FLOOR FRAMING PLAN "WEST"
S203B	THIRD FLOOR FRAMING PLAN "EAST"
S204A	FOURTH FLOOR FRAMING PLAN "WEST"
S204B	FOURTH FLOOR FRAMING PLAN "EAST"

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
S205A	ROOF FRAMING PLAN "WEST"
S205B	ROOF FRAMING PLAN "EAST"
S206	SHEAR WALL PLAN, & DETAILS
S207	SHEAR WALL SECTIONS, & SCHEDULES
S208	SHEAR WALL SECTIONS
S301	FOUNDATION DETAILS
S302	FOUNDATION DETAILS
S401	FRAMING DETAILS
S402	FRAMING DETAILS
S403	FRAMING DETAILS
S404	FRAMING DETAILS
S405	FRAMING DETAILS
ARCHITECTURE	
A200	OVERALL GARAGE & FIRST FLOOR PLANS
A201	OVERALL SECOND & THIRD FLOOR PLANS
A202	OVERALL FOURTH FLOOR & ROOF PLAN
A210A	GARAGE PLAN - WEST
A210B	GARAGE PLAN - EAST
A211A	FIRST FLOOR PLAN - WEST
A211B	FIRST FLOOR PLAN - EAST
A212A	SECOND FLOOR PLAN - WEST
A212B	SECOND FLOOR PLAN - EAST
A213A	THIRD FLOOR PLAN - WEST
A213B	THIRD FLOOR PLAN - EAST
A214A	FOURTH FLOOR PLAN - WEST
A214B	FOURTH FLOOR PLAN - EAST
A216A	ROOF PLAN - WEST
A216B	ROOF PLAN - EAST
A220	UNIT PLANS
A221	UNIT PLANS
A222	UNIT PLANS
A223	UNIT PLANS
A224	TYPE-A UNIT PLANS
A250	DOOR SCHEDULE & GLAZING ELEVATIONS
A251	DOOR DETAILS
A301	EXTERIOR ELEVATIONS
A302	EXTERIOR ELEVATIONS
A303	EXTERIOR ELEVATIONS
A401	BUILDING SECTIONS
A402	BUILDING SECTIONS
A420	VERTICAL CIRCULATION - STAIR 1

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
A421	VERTICAL CIRCULATION - STAIR 2
A422	VERTICAL CIRCULATION - ELEVATOR
A423	VERTICAL CIRCULATION - LOBBY STAIR
A501	EXTERIOR WALL SECTIONS
A510	PLAN DETAILS
A511	SECTION DETAILS
A512	SECTION DETAILS
A600	REFLECTED CEILING PLAN
A601	INTERIOR ELEVATIONS
A610	ROOM FINISH SCHEDULES
A621	CASEWORK SCHEDULE
MECHANICAL	
M000	MECHANICAL TITLE SHEET
FIRE PROTECTION	
F100A	GARAGE FLOOR PLAN - WEST - FIRE PROTECTION
F100B	GARAGE FLOOR PLAN - EAST - FIRE PROTECTION
F101A	FIRST FLOOR PLAN - WEST - FIRE PROTECTION
F101B	FIRST FLOOR PLAN - EAST - FIRE PROTECTION
F102A	SECOND FLOOR PLAN - WEST - FIRE PROTECTION
F102B	SECOND FLOOR PLAN - EAST - FIRE PROTECTION
F103A	THIRD FLOOR PLAN - WEST - FIRE PROTECTION
F103B	THIRD FLOOR PLAN - EAST - FIRE PROTECTION
F104A	FOURTH FLOOR PLAN - WEST - FIRE PROTECTION
F104B	FOURTH FLOOR PLAN - EAST - FIRE PROTECTION
PLUMBING	
P100A	FOUNDATION PLAN - WEST - PLUMBING
P100B	FOUNDATION PLAN - EAST - PLUMBING
P101A	GARAGE FLOOR PLAN - WEST - PLUMBING
P101B	GARAGE FLOOR PLAN - EAST - PLUMBING
P102A	FIRST FLOOR PLAN - WEST - PLUMBING
P102B	FIRST FLOOR PLAN - EAST - PLUMBING
P103A	SECOND FLOOR PLAN - WEST - PLUMBING
P103B	SECOND FLOOR PLAN - EAST - PLUMBING
P104A	THIRD FLOOR PLAN - WEST - PLUMBING
P104B	THIRD FLOOR PLAN - EAST - PLUMBING
P105A	FOURTH FLOOR PLAN - WEST - PLUMBING
P105B	FOURTH FLOOR PLAN - EAST - PLUMBING
P200	WASTE & VENT RISER DIAGRAMS

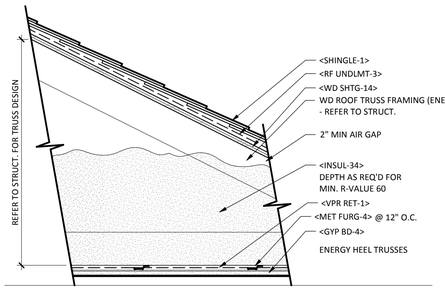
INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
P201	WASTE & VENT RISER DIAGRAMS
P202	DOMESTIC WATER RISER DIAGRAMS
P203	DOMESTIC WATER RISER DIAGRAMS
MECHANICAL	
M100A	GARGAGE FLOOR PLAN - WEST - HVAC PIPING
M100B	GARGAGE FLOOR PLAN - EAST - HVAC PIPING
M101A	FIRST FLOOR PLAN - WEST - HVAC PIPING
M101B	FIRST FLOOR PLAN - EAST - HVAC PIPING
M102A	SECOND FLOOR PLAN - WEST - HVAC PIPING
M102B	SECOND FLOOR PLAN - EAST - HVAC PIPING
M103A	THIRD FLOOR PLAN - WEST - HVAC PIPING
M103B	THIRD FLOOR PLAN - EAST - HVAC PIPING
M104A	FOURTH FLOOR PLAN - WEST - HVAC PIPING
M104B	FOURTH FLOOR PLAN - EAST - HVAC PIPING
M200A	GARAGE FLOOR PLAN - WEST - VENTILIATION
M200B	GARAGE FLOOR PLAN - EAST - VENTILIATION
M201A	FIRST FLOOR PLAN - WEST - VENTILIATION
M201B	FIRST FLOOR PLAN - EAST - VENTILIATION
M202A	SECOND FLOOR PLAN - WEST - VENTILIATION
M202B	SECOND FLOOR PLAN - EAST - VENTILIATION
M203A	THIRD FLOOR PLAN - WEST - VENTILIATION
M203B	THIRD FLOOR PLAN - EAST - VENTILIATION
M204A	FOURTH FLOOR PLAN - WEST - VENTILIATION
M204B	FOURTH FLOOR PLAN - EAST - VENTILIATION
M205	ROOF PLAN - MECHANICAL
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL SCHEDULES
M501	MECHANICAL SCHEDULES
M502	MECHANICAL SCHEDULES
ELECTRICAL	
E000	ELECTRICAL TITLE SHEET
E001	SITE PLAN - ELECTRICAL
E100	GARAGE FLOOR PLAN - WEST - LIGHTING
E101	GARAGE FLOOR PLAN - EAST - LIGHTING
E102	FIRST FLOOR PLAN - WEST - LIGHTING
E103	FIRST FLOOR PLAN - EAST - LIGHTING
E104	SECOND FLOOR PLAN - WEST - LIGHTING
E105	SECOND FLOOR PLAN - EAST - LIGHTING
E106	THIRD FLOOR PLAN - WEST - LIGHTING

INDEX OF DRAWINGS

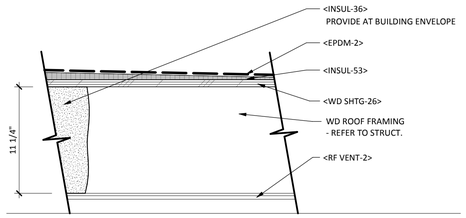
SHEET NUMBER	SHEET NAME
E107	THIRD FLOOR PLAN - EAST - LIGHTING
E108	FOURTH FLOOR PLAN - WEST - LIGHTING
E109	FOURTH FLOOR PLAN - EAST - LIGHTING
E200	GARAGE FLOOR PLAN - WEST - POWER/SYSTEMS
E201	GARAGE FLOOR PLAN - EAST - POWER/SYSTEMS
E202	FIRST FLOOR PLAN - WEST - POWER/SYSTEMS
E203	FIRST FLOOR PLAN - EAST - POWER/SYSTEMS
E204	SECOND FLOOR PLAN - WEST - POWER/SYSTEMS
E205	SECOND FLOOR PLAN - EAST - POWER/SYSTEMS
E206	THIRD FLOOR PLAN - WEST - POWER/SYSTEMS
E207	THIRD FLOOR PLAN - EAST - POWER/SYSTEMS
E208	FOURTH FLOOR PLAN - WEST - POWER/SYSTEMS
E209	FOURTH FLOOR PLAN - EAST - POWER/SYSTEMS
E300	LARGE SCALE UNIT PLANS - ELECTRICAL
E301	LARGE SCALE UNIT PLANS - ELECTRICAL
E302	LARGE SCALE UNIT PLANS - ELECTRICAL
E303	LARGE SCALE UNIT PLANS - ELECTRICAL
E401	ELECTRICAL RISER AND DETAILS
E402	POWER DETAILS
E510	LIGHTING SCHEDULE
E520	MOTOR AND EQUIPMENT SCHEDULE
E521	PANEL SCHEDULES
E522	PANEL SCHEDULES

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TYPE WR1.1

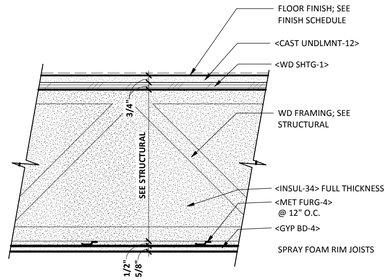
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TYPE WR2.0

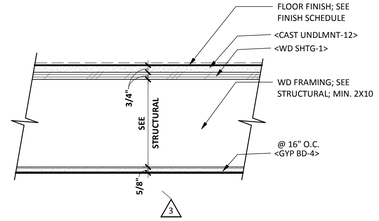
ROOF TYPE 'WR1.1'

TYPE	INSUL THICK.	G.B. THICK	RATING	UL NO.	COMMENTS



TYPE WFL1.0

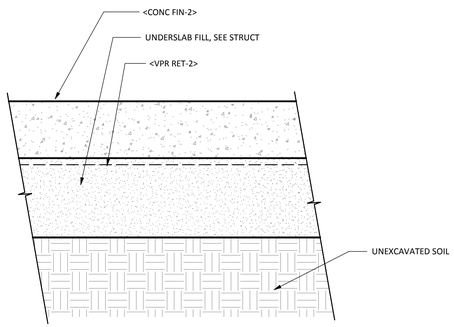
RATING: 1HR UL NO: L563 STC 59(TEST 22613-ITSC)
IIC WITH VINYL 52(TEST F13-126)



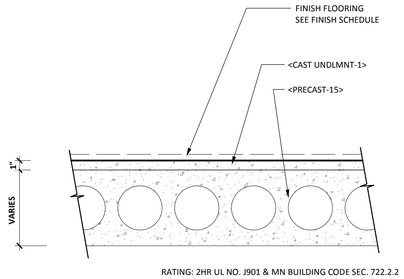
TYPE WFL2.0

RATING: 1HR UL NO: L514

6B G106 FLOOR TYPE WFL1.0
SCALE: 1 1/2" = 1'-0"

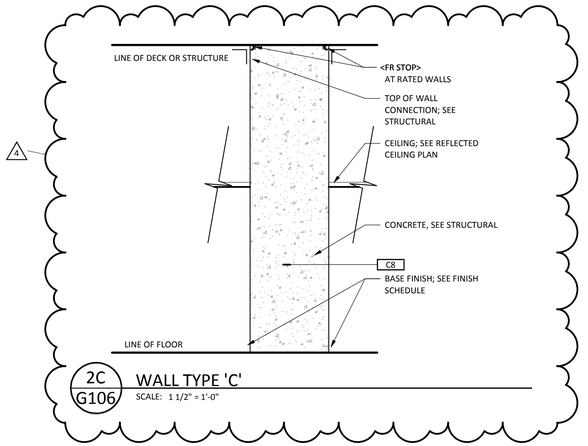


6A G106 CONC S.O.G.
SCALE: 1 1/2" = 1'-0"



RATING: 2HR UL NO. J901 & MN BUILDING CODE SEC. 722.2.2

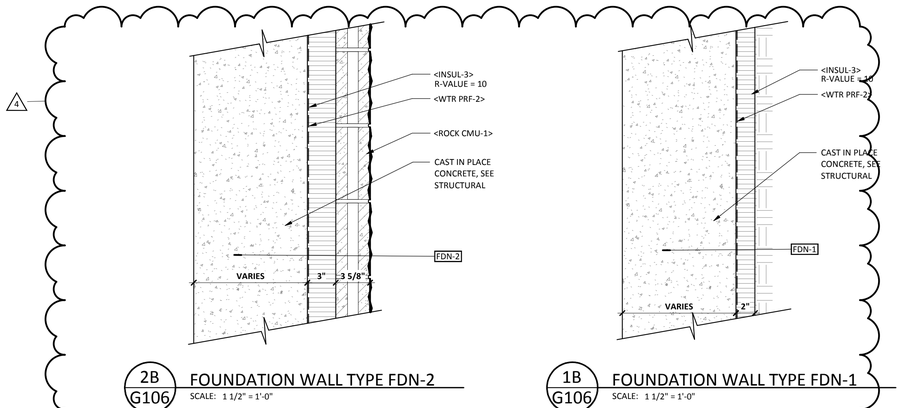
5A G106 PRECAST CONC FLOOR
SCALE: 1 1/2" = 1'-0"



2C G106 WALL TYPE 'C'
SCALE: 1 1/2" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
AIR BAR-1	07 2500 - AIR BARRIER; MECHANICALLY FASTENED
BRICK TIE	04 2000 - BRICK TIE
BRICK-1	04 2000 - FACE BRICK
CAST UNDLMNT-1	03 5400 - GYPSUM BASED UNDERLAYMENT
CAST UNDLMNT-12	03 5400 - GYPSUM BASED UNDERLAYMENT W/ SOUND CONTROL MEMBRANE
CONC FIN-2	03 3000 - HEAVY BROOM FINISH
EPDM-2	07 5300 - FULLY ADHERED EPDM ROOFING SYSTEM
FR STOP	07 8400 - THROUGH PENETRATION FIRESTOPPING
GYP BD-1	09 2116 - 5/8" FIRE-RATED TYPE 'X' GYPSUM BOARD
GYP BD-4	09 2116 - 5/8" FIRE-RATED TYPE 'C' GYPSUM BOARD
INSUL-3	07 2100 - PERIMETER BELOW GRADE EXTRUDED POLYSTYRENE INSULATION W/ DRAINAGE CHANNELS
INSUL-20	07 2100 - FIBERGLASS BATT INSULATION, UNFACED
INSUL-34	07 2126 - BULK FIBERGLASS INSULATION FOR PNEUMATIC PLACEMENT
INSUL-36	07 2119 - CLOSED CELL SPRAY FOAM INSULATION
INSUL-53	07 5300 - TAPERED OVER FLAT EXPANDED POLYSTYRENE ROOF INSULATION
MET FURG-4	09 2116 - RESILIENT FURRING CHANNELS
PRECAST-15	03 4113 - PRECAST HOLLOW CORE PLANK
RF UNDLMT-3	07 2500 - SYNTHETIC ROOFING UNDERLAYMENT
RF VENT-2	07 3113 - SOFFIT/EAVE STRIP VENT
ROCK CMU-1	04 2000 - ROCK FACED CMU
SHINGLE-1	07 3113 - LAMINATED FIBERGLASS SHINGLES
VINYL SIDING-1	07 4633 - VINYL LAP SIDING
VPR RET-1	07 2500 - 6 MIL POLY VAPOR RETARDER SHEET
VPR RET-2	07 2500 - 10 MIL POLY REINFORCED VAPOR RETARDER
WD SHTG-1	06 1000 - FLOOR SHEATHING, 3/4" OSB, EXPOSURE 1, T&G
WD SHTG-14	06 1000 - 1/2" CDX ROOF SHEATHING WITH H CLIPS
WD SHTG-20	06 1000 - 15/32" OSB WALL SHEATHING
WD SHTG-26	06 1000 - 3/4" PLYWOOD WALL SHEATHING
WTR PRF-2	07 1300 - SELF-ADHERING RUBBERIZED ASPHALT SHEETS

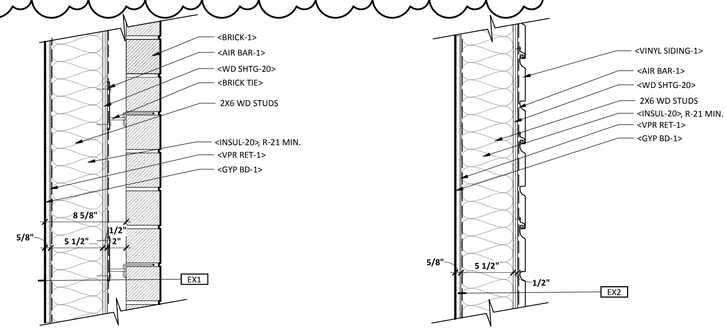


2B G106 FOUNDATION WALL TYPE FDN-2
SCALE: 1 1/2" = 1'-0"

1B G106 FOUNDATION WALL TYPE FDN-1
SCALE: 1 1/2" = 1'-0"

FOUNDATION WALL TYPE

WALL TAG	Wall structure	Insulation Thickness	U-VALUE (REQ)	U-VALUE (PROVIDED)	RATING	UL NO.	COMMENTS
FDN-1	12" CONC	2" AT BELOW GRADE LOCATIONS			2HR		
FDN-2				15.72	0HR		



2A G106 EX 1
SCALE: 1 1/2" = 1'-0"

1A G106 EX 2
SCALE: 1 1/2" = 1'-0"

EXTERIOR WALL TYPES

WALL TAG	Stud Size & Spacing	Width	U-VALUE (REQ)	U-VALUE (PROVIDED)	RATING	UL NO.	COMMENTS
EX1		1' - 0 5/8"		.044	1 HR	U356	
EX2		0' - 8 3/8"		0.45	1 HR	U356	

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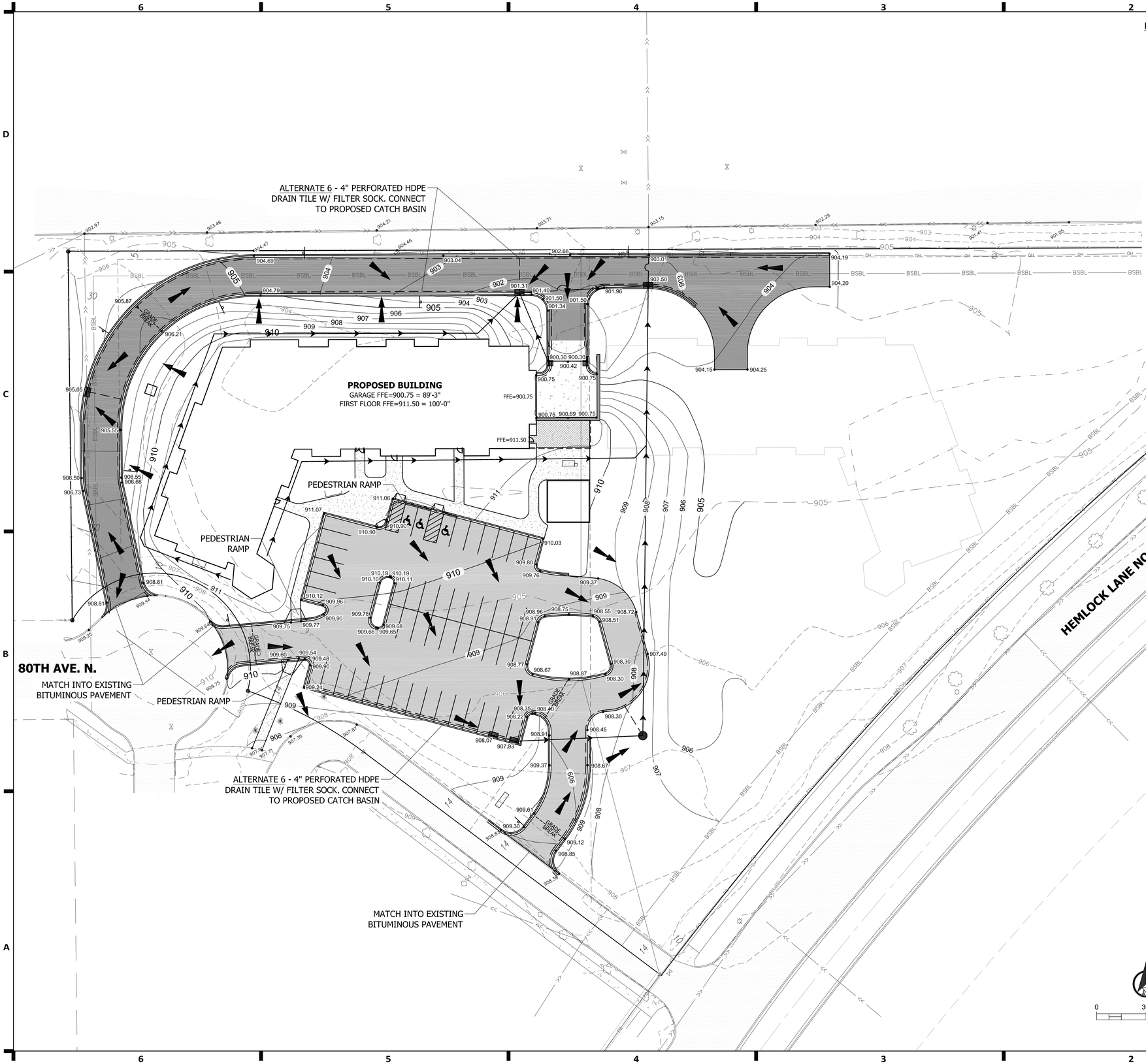
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
3	POST TENDER ADDENDUM #3	02/28/20 18
4	POST TENDER ADDENDUM #2	03/15/20 18

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET **G106**
TYPICAL ASSEMBLIES

3/7/2018 4:01:23 PM



NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING DIMENSIONS PRIOR TO ANY CONSTRUCTION.
3. SIDEWALKS SHALL MEET ADA REQUIREMENTS, AND SHALL NOT EXCEED 2.00% CROSS SLOPE, OR 5.00% LONGITUDINAL SLOPE.
4. HANDICAP PARKING STALLS SHALL MEET ADA REQUIREMENTS, AND SHALL NOT EXCEED 2.00% CROSS SLOPE IN ALL DIRECTIONS.
5. ONCE SUBGRADE ELEVATION IS REACHED, SCARIFY EXISTING SUBGRADE BENEATH ROADS AND BUILDING PADS AND RECOMPACT TO 95% OF THE MAXIMUM DRY DENSITY.
6. FILL AREAS UNDER PROPOSED ROADS AND BUILDINGS SHALL BE COMPACTED TO 100% OF THE MAXIMUM DRY DENSITY.
7. ALL EXCESS OR WASTE MATERIAL GENERATED AS PART OF CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
8. FILL MATERIAL NEEDED FOR THE GRADING ON THE SITE SHALL BE OBTAINED FROM ANOTHER AREA OF THE SITE AS IDENTIFIED BY THE OWNER.
9. GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

GRADING LEGEND

- = EXISTING MAJOR CONTOUR
- = EXISTING MINOR CONTOUR
- 100 = EXISTING CONTOUR LABEL
- = PROPOSED MAJOR CONTOUR
- = PROPOSED MINOR CONTOUR
- 100 = PROPOSED CONTOUR LABEL
- XXXX.XX = EXISTING SPOT ELEVATION*
- XXXX.XX = PROPOSED SPOT ELEVATION*

*SPOT ELEVATIONS ALONG CURB & GUTTER AND OTHER REVEALS ARE TO FLOWLINE, UNLESS OTHERWISE NOTED.

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I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

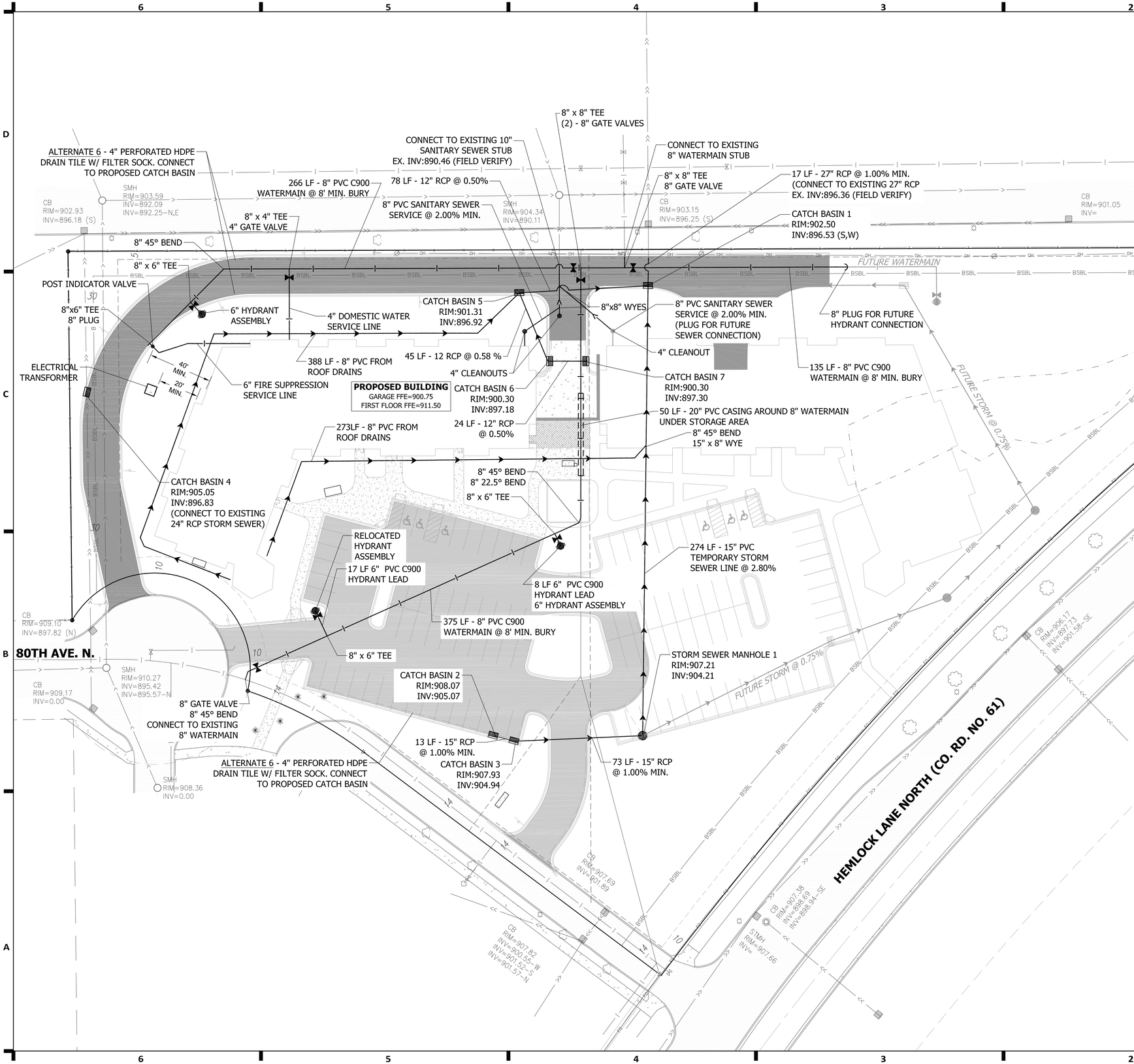
JEREMY E. ANDERSON | LIC. NO 44723 | DATE 12.04.2017

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
	POST TENDER ADDENDUM #2	03-16-18

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET **C301**
GRADING PLAN



GENERAL NOTES:

1. THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/ OR RECORDS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES.
3. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING DIMENSIONS PRIOR TO ANY CONSTRUCTION.
4. WATER SERVICE PIPE SHALL BE 4" (D.I.P.). BURY AT THE LOCATIONS IDENTIFIED ON THE PLAN.
5. ALL WATER PIPING SHALL BE BURIED A MINIMUM OF 8'.
6. MAINTAIN A MINIMUM OF 10' OF SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES.
7. SANITARY SEWER SERVICE PIPE AND FITTINGS SHALL BE 8" SCH 40 PVC .SANITARY SEWER SERVICES SHALL INCLUDE 8" PVC WYE, 8" PVC 45° BEND, 8" PVC SERVICE PIPE AND PVC CLEANOUT WITHIN 5' OF THE BUILDING FOR BUILDING CONNECTION.
8. SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 2.00% GRADE
9. CLEANOUT SPACING SHALL NOT EXCEED 90'.
10. BUILDING SEWERS OR DRAINAGE PIPING OF CLAY OR MATERIALS THAT ARE NOT APPROVED FOR USE WITHIN A BUILDING SHALL NOT BE RUN OR LAID IN THE SAME TRENCH AS THE WATER PIPES UNLESS THE FOLLOWING REQUIREMENTS ARE MET:

    THE BOTTOM OF THE WATER PIPE, AT POINTS, SHALL BE NOT LESS THAN 12 INCHES ABOVE THE TOP OF THE SEWER OF DRAIN LINE.

    THE WATER PIPE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH WITH A CLEAR HORIZONTAL DISTANCE OF NOT LESS THAN 12-INCHES FROM THE SEWER OR DRAIN LINE.
11. WATER PIPES CROSSING SEWER OR DRAINAGE PIPING CONSTRUCTED OF CLAY OR MATERIALS THAT ARE NOT APPROVED FOR USE WITHIN A BUILDING SHALL BE LAID NOT LESS THAN 12 INCHES ABOVE THE SEWER OR DRAIN PIPE.
12. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
13. ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
14. GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166

JLG architects
322 1st Ave N, Suite #600
Minneapolis, MN 55401
phone 6 1 2.7 4 6.4 2 6 0
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I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

44223	12.04.2017
LIC. NO	DATE

JEREMY E. ANDERSON

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
	POST TENDER ADDENDUM #2	03-16-18

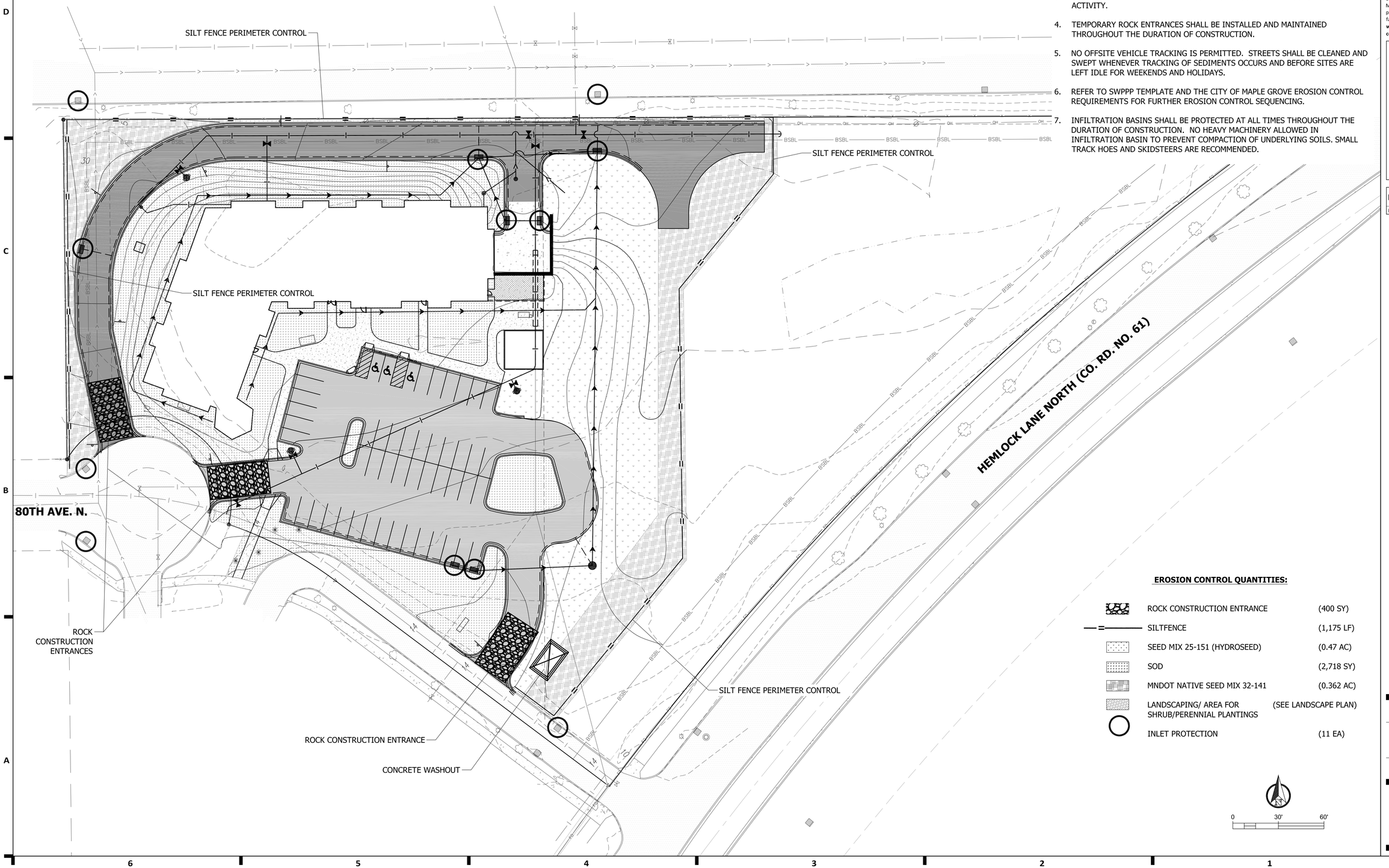
JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/2017

PHASE
100% CDs

PROJECT
16098

SHEET
C401
UTILITY PLAN



NOTES:

1. ALL DISTURBED AREAS SHALL BE RESTORED AND SEEDED WITH SEED MIX 25-251 (HYDROSEED) OR SOD.
2. INLET PROTECTION SHALL BE PROVIDED ON ALL CATCH BASINS AND INLETS DOWN GRADIENT OF CONSTRUCTION ACTIVITY.
3. PROVIDE SILT FENCE PERIMETER CONTROL AROUND ENTIRE CONSTRUCTION ACTIVITY.
4. TEMPORARY ROCK ENTRANCES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
5. NO OFFSITE VEHICLE TRACKING IS PERMITTED. STREETS SHALL BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS.
6. REFER TO SWPPP TEMPLATE AND THE CITY OF MAPLE GROVE EROSION CONTROL REQUIREMENTS FOR FURTHER EROSION CONTROL SEQUENCING.
7. INFILTRATION BASINS SHALL BE PROTECTED AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION. NO HEAVY MACHINERY ALLOWED IN INFILTRATION BASIN TO PREVENT COMPACTION OF UNDERLYING SOILS. SMALL TRACK HOES AND SKIDSTEERS ARE RECOMMENDED.

EROSION CONTROL QUANTITIES:

	ROCK CONSTRUCTION ENTRANCE	(400 SY)
—=—	SILTFENCE	(1,175 LF)
	SEED MIX 25-151 (HYDROSEED)	(0.47 AC)
	SOD	(2,718 SY)
	MNDOT NATIVE SEED MIX 32-141	(0.362 AC)
	LANDSCAPING/ AREA FOR SHRUB/PERENNIAL PLANTINGS	(SEE LANDSCAPE PLAN)
○	INLET PROTECTION	(11 EA)

0 30' 60'

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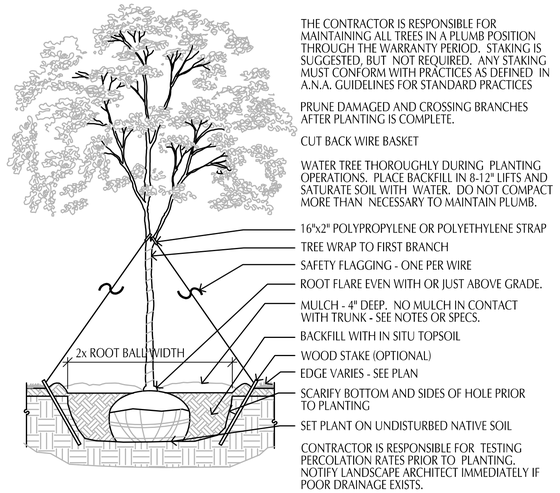
JEREMY E. ANDERSON | LIC. NO 44223 | DATE 12.04.2017

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
	POST TENDER ADDENDUM #2	03-16-18

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET **C501**
EROSION CONTROL PLAN



THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS SUGGESTED, BUT NOT REQUIRED. ANY STAKING MUST CONFORM WITH PRACTICES AS DEFINED IN A.N.A. GUIDELINES FOR STANDARD PRACTICES

PRUNE DAMAGED AND CROSSING BRANCHES AFTER PLANTING IS COMPLETE.

CUT BACK WIRE BASKET

WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO MAINTAIN PLUMB.

16"x2" POLYPROPYLENE OR POLYETHYLENE STRAP

TREE WRAP TO FIRST BRANCH

SAFETY FLAGGING - ONE PER WIRE

ROOT FLARE EVEN WITH OR JUST ABOVE GRADE.

MULCH - 4" DEEP. NO MULCH IN CONTACT WITH TRUNK - SEE NOTES OR SPECS.

BACKFILL WITH IN SITU TOPSOIL

WOOD STAKE (OPTIONAL)

EDGE VARIES - SEE PLAN

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING

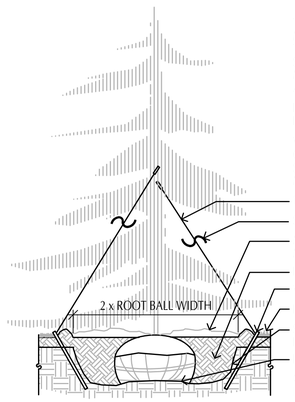
SET PLANT ON UNDISTURBED NATIVE SOIL

CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF POOR DRAINAGE EXISTS.

1 / L-3 DECIDUOUS TREE PLANTING DETAIL

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

Deciduous Tree.DWG



THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS SUGGESTED, BUT NOT REQUIRED. ANY STAKING MUST CONFORM WITH PRACTICES AS DEFINED IN A.N.A. GUIDELINES FOR STANDARD PRACTICES.

PRUNE ANY DAMAGED BRANCHES AFTER PLANTING IS COMPLETE.

WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO MAINTAIN PLUMB.

16"x2" POLYPROPYLENE OR POLYETHYLENE STRAP

SAFETY FLAGGING - ONE PER WIRE

MULCH - 4" DEEP - SEE NOTES OR SPECS. MULCH MUST NOT BE IN CONTACT WITH TRUNK.

BACKFILL WITH IN SITU TOPSOIL

WOOD STAKE (OPTIONAL)

EDGE VARIES - SEE PLAN

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING

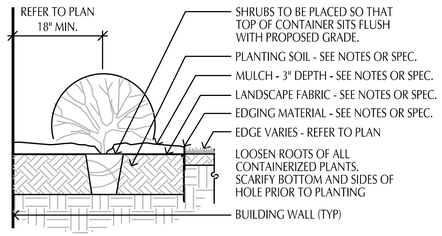
ROOT BALL SET ON UNDISTURBED SUBGRADE

CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF POOR DRAINAGE EXISTS.

2 / L-3 CONIFEROUS TREE PLANTING DETAIL

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

Coniferous Tree.DWG



SHRUBS TO BE PLACED SO THAT TOP OF CONTAINER SITS FLUSH WITH PROPOSED GRADE.

PLANTING SOIL - SEE NOTES OR SPEC.

MULCH - 3" DEPTH - SEE NOTES OR SPEC.

LANDSCAPE FABRIC - SEE NOTES OR SPEC.

EDGING MATERIAL - SEE NOTES OR SPEC.

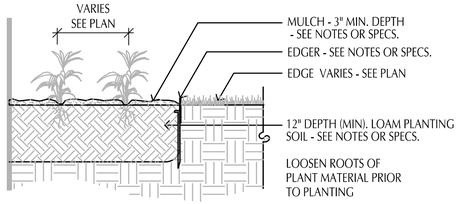
EDGE VARIES - REFER TO PLAN

LOOSEN ROOTS OF ALL CONTAINERIZED PLANTS. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING

BUILDING WALL (TYP)

3 / L-3 SHRUB PLANTING DETAIL

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



MULCH - 3" MIN. DEPTH - SEE NOTES OR SPECS.

EDGER - SEE NOTES OR SPECS.

EDGE VARIES - SEE PLAN

12" DEPTH (MIN). LOAM PLANTING SOIL - SEE NOTES OR SPECS.

LOOSEN ROOTS OF PLANT MATERIAL PRIOR TO PLANTING

4 / L-3 PERENNIAL PLANTING

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

Perennial.Dwg

LANDSCAPE INSTALLATION:

COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.

NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

WHERE SOD/SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

SEED ALL AREAS DISTURBED DUE TO GRADING OTHER THAN THOSE AREAS NOTED TO RECEIVE SOD. TURF SEED MIX AREAS SHALL BE INSTALLED AND MULCHED ACCORDING TO THE MNDOT SEED MANUAL INSTALLATION SPECS.

SOD ALL DESIGNATED AREAS DISTURBED DUE TO GRADING. SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, THE SOD SHALL BE STAKED TO THE GROUND.

ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, ALL SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED MINIMUM SHRUB HEIGHT OR WIDTH. ORNAMENTAL TREES SHALL HAVE NO V CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 5' ABOVE FINISHED GRADE.

ANY CONIFEROUS TREE PREVIOUSLY PRUNED FOR CHRISTMAS TREE SALES SHALL NOT BE USED. ALL CONIFEROUS TREES SHALL BE FULL FORM, NATURAL TO THE SPECIES, WITHOUT PRUNING.

PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.

ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE NOTIFIED.

ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH A 27-3-3 SLOW RELEASE FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS. PLANTS MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 27-3-3 AT 6 OZ PER 2.5" CALIPER PER TREE AND 3 OZ PER SHRUB WITH AN ADDITIONAL APPLICATION OF 27-3-3 THE FOLLOWING SPRING IN THE TREE SAUCER.

ALL PLANTING AREAS RECEIVING GROUND COVER, PERENNIALS, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 12" DEPTH OF PLANTING SOIL CONSISTING OF AT LEAST 45 PARTS TOPSOIL, 45 PARTS PEAT OR MANURE AND 10 PARTS SAND.

ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS. REMOVE ALL FLAGGING AND LABELS FROM PLANTS.

WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1" GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DEC. 1 AND REMOVE ALL WRAPPING AFTER MAY 1.

BLACK POLY EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS, AND ANNUALS WHERE BED MEETS SOD/SEED UNLESS NOTED OTHERWISE.

ALL ANNUAL AND PERENNIAL PLANTING BEDS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH WITH NO WEED BARRIER.

ALL SHRUB BED MASSINGS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH AND FIBER MAT WEED BARRIER.

ALL TREES TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.

SPREAD GRANULAR PRE EMERGENT HERBICIDE (PREEN OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS UNDER ALL MULCHED AREAS.

MAINTENANCE STRIPS TO HAVE EDGER AND MULCH AS SPECIFIED/INDICATED ON DRAWING OR IN SPECIFICATION.

IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, HE MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.

CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE/PEST CONTROL.

CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.

WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED/SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

FALL SODDING IS GENERALLY ACCEPTABLE FROM AUGUST 15 - NOVEMBER 1. FALL SEEDING FROM AUGUST 15 - SEPTEMBER 15; DORMANT SEEDING IN THE FALL SHALL NOT OCCUR PRIOR TO NOVEMBER 1. FALL CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 - OCTOBER 1 AND DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

IRRIGATION NOTES:

AD2

VERIFY PROPOSED IRRIGATION SYSTEM LAYOUT AND CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING SHOP DRAWINGS.

ALL LANDSCAPED AREAS IN THE PHASE 2 AREAS SHALL BE IRRIGATED, THIS INCLUDES ALL SODDED AREAS AND PLANTING BEDS. THE IRRIGATION PLAN SHALL BE DESIGNED AND SIZED FOR THE FUTURE PHASE 3 IMPROVEMENTS.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION AS A PART OF THE SCOPE OF WORK WHEN BIDDING. THESE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR INSTALLATION. IT SHALL BE THE LANDSCAPE CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL SODDED/SEEDED AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ABUTTING BUILDING FOUNDATION. IRRIGATION SYSTEM IS NOT TO SPRAY ACROSS PAVEMENT.

THE CONTRACTOR IS TO INSTALL AN EFFICIENT IRRIGATION SYSTEM THAT INCLUDES THE FOLLOWING AT A MINIMUM:

- A DRIP IRRIGATION SYSTEM FOR LANDSCAPE PLANTING BEDS
- SEPARATELY ZONED TURF AND BEDDING AREAS, BASED ON WATERING NEEDS OF TURF/PLANTINGS
- A CONTROLLER THAT ACTIVATES THE VALVES FOR EACH WATERING ZONE AT THE BEST TIME OF DAY TO MINIMIZE EVAPORATIVE LOSSES WHILE MAINTAINING HEALTHY PLANTS AND OBEYING LOCAL REGULATIONS AND WATER-USE GUIDANCE
- A MOISTURE SENSOR CONTROLLER OR RAIN DELAY CONTROLLER.

THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE CONDITIONS AND TO PLANT MATERIAL GROWTH REQUIREMENTS.

PLANTINGS OUTSIDE THE LIMITS OF IRRIGATION ARE TO BE WATERED REGULARLY UNTIL PLANTINGS / SOD / SEED HAVE BEEN ESTABLISHED. THIS INCLUDES THE TURF SEEDED AREA.

CONTRACTOR TO PROVIDE 3 QUICK COUPLERS IN LOCATIONS ACCESSIBLE TO PROVIDE TEMPORARY IRRIGATION TO THE FUTURE PHASE (TURF SEED AREAS).

BOTTINEAU RIDGE 2ND ADDITION

Maple Grove, MN

DUFFY DEVELOPMENT

11900 Wayzata Blvd.
Minnetonka, MN 55305

LOUCKS

PLANNING
CIVIL ENGINEERING
LAND SURVEYING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL

7200 Hemlock Lane, Suite 300
Maple Grove, MN 55369
763.424.5505
www.loucksinc.com

CADD QUALIFICATION

CADD files prepared by the Consultant for this project are instruments of the Consultant professional services for use solely with respect to this project. These CADD files shall not be used on other projects, for additions to this project, or for completion of this project by others without written approval by the Consultant. With the Consultant's approval, others may be permitted to obtain copies of the CADD drawing files for information and reference only. All intentional or unintentional revisions, additions, or deletions to these CADD files shall be made at the full risk of that party making such revisions, additions or deletions and that party shall hold harmless and indemnify the Consultant from any & all responsibilities, claims, and liabilities.

SUBMITTAL/REVISIONS

04/08/16	CITY SUBMITTAL
04/28/16	CITY RESUBMITTAL
09/11/17	CITY SUBMITTAL
12/07/17	ADDENDUM 1
12/11/17	ADDENDUM 2
03/16/18	POST TENDER ADD 2

PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

Douglas D. Loken - LA

License No.	45591
Date	12/07/17

QUALITY CONTROL

Loucks Project No.	12023C
Project Lead	DDL
Drawn By	GAJ
Checked By	DDL
Review Date	12/11/17

SHEET INDEX

LANDSCAPE NOTES & DETAILS

L-3

Plotted: 03 /13 / 2018 4:29 PM W:\2012\12023C\CADD DATA\LANDSCAPE_dwg Sheet Files\L12023 L1-1

SPECIAL INSPECTIONS AND TESTING:

THIS PROJECT REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION. THESE NOTES AND THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THE PROJECT OWNER ARE INTENDED TO INFORM THE CONTRACTOR OF THE QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES. CONTRACTOR SHALL REFERENCE PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE TESTING AND INSPECTION SERVICES SECTION WILL CLARIFY WHO SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM ALL INSPECTIONS, SPECIAL INSPECTIONS, AND TESTING FOR PROJECT.

GENERAL NOTES:

1. THE SPECIAL INSPECTION AND TESTING PROGRAM IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO COMPLY WITH THE OFFICIAL CONTRACT DOCUMENTS. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DRAWINGS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL NOR THE QUALITY CONTROL RESPONSIBILITIES AND PERSONNEL OF THE CONTRACTOR. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
3. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE IBC SECTION 110 AND SPECIFIC STRUCTURAL OBSERVATION AS MAY BE REQUIRED BY THE CODE.
4. THOUGH NOT REQUIRED BY CODE, SPECIAL INSPECTORS AND/OR INSPECTION AGENCIES CAN DOCUMENT ACCEPTANCE OF THEIR RESPONSIBILITIES AND SCOPE OF WORK FOR A PROJECT BY SIGNING AN AGREEMENT THAT INCLUDES A DETAILED SCHEDULE OF SERVICES, COMMONLY KNOWN AS THE SPECIAL INSPECTION AND TESTING AGREEMENT AND THE SPECIAL INSPECTION AND TESTING SCHEDULE. THIS DOCUMENT MAY REFERENCE THIS SHEET AS THE "STATEMENT OF SPECIAL INSPECTIONS," (SSI).
5. THE STRUCTURAL DESIGN METHODS AND/OR ASSUMPTIONS UTILIZED ARE BASED UPON THE SPECIAL INSPECTIONS REQUIRED WITHIN THE CONTRACT DOCUMENTS.

CONTRACTOR RESPONSIBILITIES AND DUTIES:

1. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PROVIDING ADEQUATE NOTICE TO THE SPECIAL INSPECTORS FOR ALL INSPECTIONS. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE REQUIRED ITEMS PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF WORK.
2. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO THE APPROVED CONTRACT DOCUMENTS. THESE DOCUMENTS INCLUDE SEALED DRAWINGS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, APPROVED SHOP DRAWINGS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY THE ARCHITECT/ENGINEER. THIS CURRENT SET OF DOCUMENTS SHALL BE AVAILABLE AT THE JOB SITE.
3. THE CONTRACTOR IS TO CORRECT DISCREPANCIES AND DEVIATIONS AS DETERMINED BY SPECIAL INSPECTOR. ALL DISCREPANCIES AND DEVIATIONS OBSERVED SHALL BE RE-INSPECTED UNTIL THE SPECIAL INSPECTOR DEEMS CONSTRUCTION TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR IS TO RETAIN SPECIAL INSPECTION RECORDS COMPLETED BY THE SPECIAL INSPECTORS AT THE JOB SITE.

SPECIAL INSPECTOR QUALIFICATIONS AND RESPONSIBILITIES:

1. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTORS SHALL NOTIFY CONTRACTOR PERSONNEL OF THEIR PRESENCE AND RESPONSIBILITIES AT THE JOBSITE.
3. THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE INDEPENDENT OF THE CONTRACTOR TO AVOID CONFLICT OF INTEREST.
4. THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THESE DOCUMENTS INCLUDE SEALED DRAWINGS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, APPROVED SHOP DRAWINGS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY THE ARCHITECT/ENGINEER.
5. SPECIAL INSPECTORS SHALL KEEP ORGANIZED RECORDS OF INSPECTIONS AND SUBMIT INSPECTION REPORTS WITH A MINIMUM WEEKLY FREQUENCY TO THE CONTRACTOR, BUILDING OFFICIAL, ENGINEERS, AND ARCHITECTS INDIVIDUALLY. REPORTS SHOULD INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION TO THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THEY SHOULD BE REPORTED TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD.
6. A FINAL SIGNED REPORT IS TO BE SUBMITTED AT THE END OF THE PROJECT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES. THIS REPORT SHOULD STATE THAT ALL ITEMS REQUIRING SPECIAL INSPECTION AND TESTING WERE FULFILLED AND REPORTED TO THE BEST OF THEIR KNOWLEDGE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS, AND THE APPLICABLE PROVISIONS OF THE IBC. ITEMS NOT IN CONFORMANCE, UNRESOLVED ITEMS, OR ANY DISCREPANCIES IN INSPECTION COVERAGE SHOULD BE SPECIFICALLY ITEMIZED.
7. THE FOLLOWING ARE THE QUALIFICATIONS FOR FOR INDIVIDUALS PERFORMING SPECIFIC INSPECTIONS OR TESTS INCLUDING IN THIS PROJECT'S SSI.

   A. AMERICAN CONCRETE INSTITUTE (ACI):
      - CONCRETE FIELD TESTING TECHNICIAN – GRADE 1 (ACI-CFTT)
      - CONCRETE CONSTRUCTION INSPECTOR (ACI-CCI)
      - LABORATORY TESTING TECHNICIAN – GRADE 1 OR 2 (ACI-LTT)
      - STRENGTH TESTING TECHNICIAN (ACI-STT)

   B. AMERICAN WELDING SOCIETY (AWS):
      - CERTIFIED WELDING INSPECTOR (AWS-CWI)
      - CERTIFIED STRUCTURAL STEEL INSPECTION (AWS/AISC-SSI)

   C. AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT)
      - NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II OR III (ASNT)

   D. INTERNATIONAL CODE COUNCIL (ICC):
      - STRUCTURAL MASONRY SPECIAL INSPECTOR (ICC-SMSI)
      - STRUCTURAL STEEL AND BOLTING SPECIAL INSPECTOR (ICC-SSSI)
      - STRUCTURAL WELDING SPECIAL INSPECTOR (ICC-SWI)
      - PRESTRESSED CONCRETE SPECIAL INSPECTOR (ICC-PCSI)
      - REINFORCED CONCRETE SPECIAL INSPECTOR (ICC-RCSI)
      - SOILS SPECIAL INSPECTOR (ICC-SSI)

   E. PROFESSIONAL STATE LICENSING:
      - PROFESSIONAL ENGINEER (PE)

STATEMENT OF SPECIAL INSPECTIONS (SSI):

1. THE FOLLOWING TABLES INDICATE THE MINIMUM SPECIFIC SPECIAL INSPECTION AND TESTING TO BE PERFORMED ON THIS PROJECT AND THE QUALIFICATIONS OF THE INDIVIDUAL INSPECTORS AND TESTING TECHNICIANS.

DEFINITIONS:

1. CONTINUOUS SPECIAL INSPECTION: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. 100% OF THE WORK MUST BE INSPECTED AND IT MUST BE INSPECTED AS THE WORK IS BEING PERFORMED.
2. PERIODIC SPECIAL INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN, OR IS BEING, PERFORMED AND AT THE COMPLETION OF WORK.
3. YES: THIS INSPECTION AND/OR TESTING IS REQUIRED BY THE BUILDING CODE AND MUST BE PERFORMED.
4. NO: THIS INSPECTION AND/OR TESTING IS NOT APPLICABLE TO THE PROJECT, AND NEED NOT BE PERFORMED.
5. SUGGESTED: THIS INSPECTION AND/OR TESTING IS NOT REQUIRED BY THE BUILDING CODE. HOWEVER, THE ENGINEER OF RECORD RECOMMENDS IMPLEMENTING THEM FOR QUALITY ASSURANCE. A POTENTIAL EXISTS FOR THESE MEASURES TO BE A VALUE ADDED SERVICE FOR THE OWNER TO ENSURE PROPER PROJECT COMPLETION.

SPECIAL INSPECTIONS – SOILS AND FOUNDATION

VERIFICATION AND INSPECTION	AGENCY QUALIFICATION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Shallow Foundations	ICC-SSI PE-GEOTECH.	Inspect Soils below footings for adequate bearing capacity and consistency with geotechnical report	N/A	Periodic testing to verify compliance with project specifications & geotechnical report	YES
2. Controlled Structural Fill	ICC-SSI PE-GEOTECH.	Perform applicable sieve tests and modified Proctor tests of each source of fill. Inspect placement, lift thickness, and compaction. Test density of each lift. Verify extent and slope of fill placement.	Applicable ASTM Specs	Periodic testing to verify compliance with project specifications & geotechnical report	YES
3. Deep Foundation: Driven Piles	PE-GEOTECH.	Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria. Inspect piles for damage from driving and plumbness. Verify pile size, length and accessories.		Continuous	NO
4. Deep Foundation: Drilled Pier Foundations	PE-GEOTECH.	Inspect installation and maintain complete records for each pier. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata		Continuous	NO

SPECIAL INSPECTIONS – CAST-IN-PLACE CONCRETE

VERIFICATION AND INSPECTION	AGENCY QUALIFICATION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Mix Design	ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added on site does not exceed that allowed by the mix design.	ACI 318	Prior to start of concrete construction on project, Periodic	YES
2. Material Certification	STRUCTURAL ENGINEER OF RECORD	Verify that concrete supplier's concrete components meet requirements set forth by applicable ASTM standards.	Applicable ASTM & ACI Specs	Prior to start of concrete construction on project	YES
3. Reinforcement Installation	ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters	Applicable ACI Specs	Prior to each casting	YES
4. Welding of Reinforcing	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required	Applicable ASTM & AWS Specs	Continuous	YES
5. Anchor Rods	ACI-CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors	Applicable AISC & ACI Specs	Prior to each casting	YES
6. Concrete Placement	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	Applicable ACI Specs	Periodic	SUGGESTED
7. Sampling and Testing of Concrete	ACI-CFTT ACI-LTT ACI-STT	Test Concrete compressive strength, slump, air content and temperature	Applicable ACI and ASTM Specs	Not less than once a day, nor less than once for every 150 cubic yard, nor less than once for every 5000 SF of surface area for slabs or walls	YES
8. Curing and Protection	ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures	Applicable ACI Specs	Monitor on site after each casting	SUGGESTED
9. Post-Installed Anchors	ACI-CCI ICC-RCSI	Inspect installation for type of anchor, embedment, edge distances & adhesive required	ACI & Supplier's Specs	Continuous	YES
Exceptions per IBC 1705.3: Special Inspections are not required for the following unless otherwise required by the Building Official or Structural Engineer of the Record.					
1. Nonstructural concrete slabs supported directly on the ground.					
2. Concrete patios, driveways and sidewalks, on grade.					

SPECIAL INSPECTIONS – PRECAST CONCRETE

VERIFICATION AND INSPECTION	AGENCY QUALIFICATION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Supplier's Plant Certification/Quality Control Procdures	Per PCI requirements	Precast supplier to perform all work per PCI requirements. Maintain plant records and quality control program during production of precast components. All components of precast production to be tested per PCI requirements. Make records available upon request	Applicable PCI & ACI Specs	Per PCI requirements	YES
2. Erection of Precast Elements	ICC-SSSI	Inspect erection of precast concrete including member configuration, connections, welding and grouting	Applicable PCI & ACI Specs	Periodic	YES

SPECIAL INSPECTIONS – WOOD CONSTRUCTION

VERIFICATION AND INSPECTION	AGENCY QUALIFICATION	SCOPE	REFERENCED STANDARD	FREQUENCY OF INSPECTION	REQUIRED ON PROJECT
1. Fabricator Certification/Quality Control Procedures	–	Fabricated to be enrolled in a nationally accepted inspection program acceptable to the Structural drawings and specifications. The approved fabricator to submit a certification of compliance to the building official.		N/A	YES
2. Material Grading		Review sheathing, framing members, wall studs, plates for proper species and grade	Applicable APA & AITC Specs	Prior to Construction & Periodic during construction	YES
3. Connections		Inspect connection of framing members. Including nail and bolts for size and spacing. Verify metal hardware connectors for type and proper installation	ANSI/AF&PA & Supplier's Specs	Periodic	YES
4. Framing and Details		Inspect framing for plumbness, spacing, bearing length, and size. Verify bracing is installed as required.	ANSI/AF&PA	Periodic	YES
5. Diaphragms and Shearwalls		Inspect size, configuration, blocking and fastening of shearwalls and diaphragms. Verify panel grade and thickness. Verify size and installation of hold-downs and straps.	ANSI/AF&PA & Supplier's Specs	Periodic	YES
6. Prefabricated Wood Trusses & I-Joists		See Item #1. Inspect installation for location, spacing, bearing length, connectors, and permanent bracing.	ANSI/AF&PA & Supplier's Specs	Periodic	YES

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NO.	DESCRIPTION	DATE
1	ADDENDUM #2	3/16/18

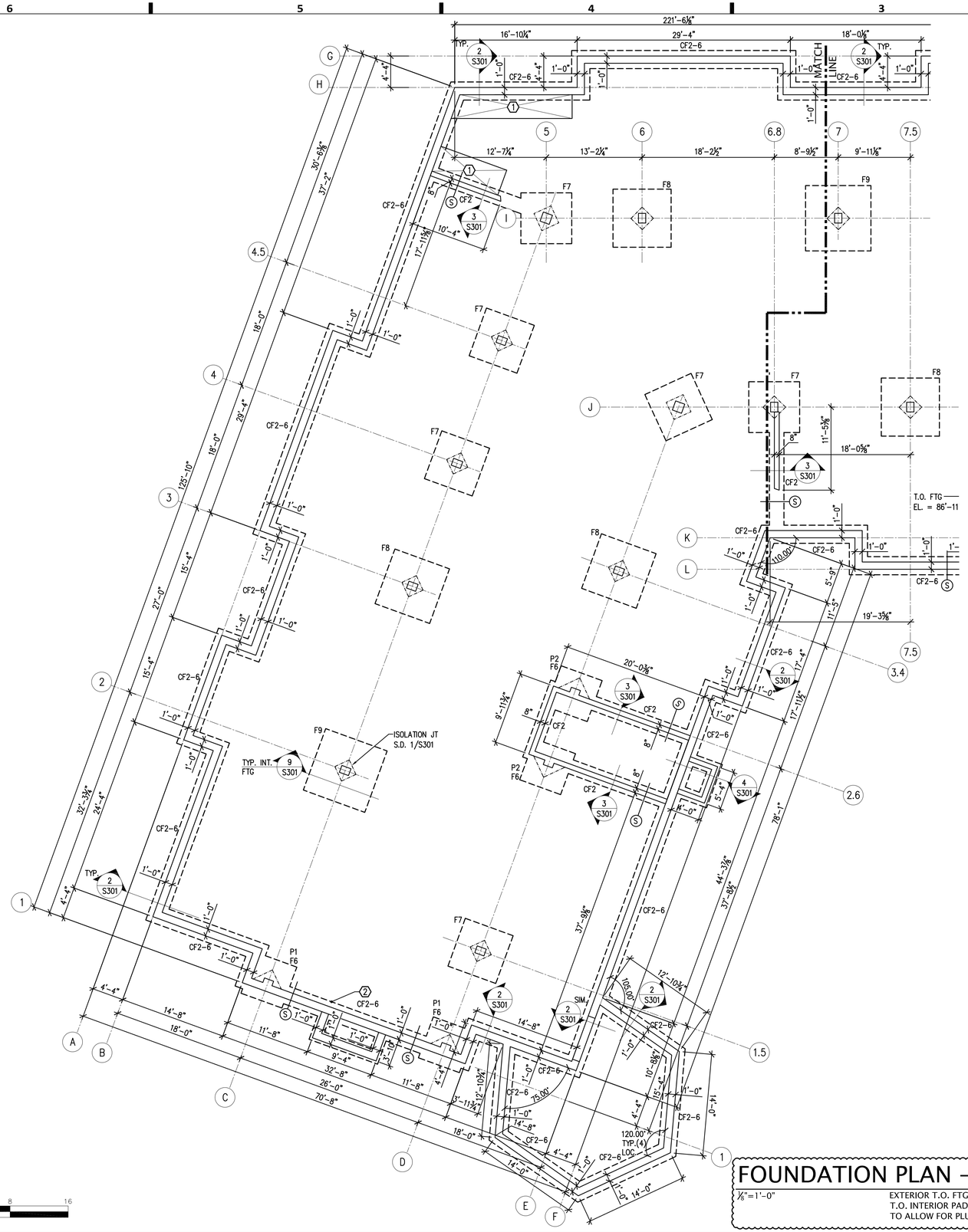
JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/17
PHASE 100% CDs
PROJECT 16098
SHEET S002
SPECIAL INSPECTIONS

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

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1587 50th Avenue South • Moorhead, MN 56560
218.227.0002 • www.SandmanSE.com Project 1623-P

3/15/2018 4:23 PM



FOUNDATION PLAN NOTES:

1. SEE SHEET S301 FOR GENERAL FOUNDATION DETAILS & 10/S301 FOR STANDARD CMU DETAILS. SEE SHEET S001 FOR GENERAL CONCRETE AND FOUNDATION NOTES.
2. TYPICAL INTERIOR GARAGE SLAB ON GRADE, U.N.O.
   THICKNESS = 4"
   REINFORCEMENT = FIBERMESH.
   BASE = MIN OF 6" COMPACTED GRANULAR FILL
   VAPOR RETARDER/BARRIER = 10 MIL POLY
   T.O. SLAB ELEVATION = 89'-3", TYP – SEE ARCH FOR SLOPE LINES.
3. SEE ARCH FOR LOCATIONS OF CMU PARTITIONS. SEE DETAIL 5/S301 FOR SLAB AT CMU PARTITIONS.
4. (S) – DENOTES FOOTING STEP – S.D. 1/S301.
3. 5. SEE S201 A/B FOR CIP WALL REINFORCING.

KEYNOTES

1. 4" ELEVATED HOUSEKEEPING PADS. REINFORCE W/#4 REBAR @ 1'-6" O.C. EACH WAY. SEE ARCH/MECH FOR SIZE & LOCATION.
2. PROVIDE FOOTING STEP AS REQUIRED TO MAINTAIN 3'-8" (MIN) FROM WELL FINISHED GRADE TO BOTTOM OF FOOTING.
3. CONCRETE APRON – SEE ARCH FOR DIMENSIONS.

2

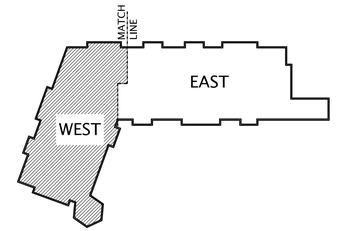
FOOTING SCHEDULE

MARK	SIZE	THICKNESS	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT	NOTES/COMMENTS
CF2	2'-0" CONT.	1'-0"	(2) #5 CONT.	#4 @ 4'-0" O.C.	–
CF2-6	2'-6" CONT.	1'-0"	(2) #5 CONT.	#4 @ 4'-0" O.C.	–
F6	6'-0" SQ.	1'-0"	(6) #6	(6) #6	–
F7	7'-0" SQ.	1'-2"	(7) #6	(7) #6	–
F8	8'-0" SQ.	1'-4"	(8) #6	(8) #6	–
F9	9'-0" SQ.	1'-6"	(9) #6	(9) #6	–

CONCRETE PIER SCHEDULE

3

MARK	DETAIL	NOTES/COMMENTS
P1	1/S302	S.D. 9/S401
P1A	1A/S302	S.D. 9/S401
P2	2/S302	S.D. 9/S401
P3	3/S302	S.D. 9/S401
P4	NOT USED	–



KEYPLAN
NO SCALE

FOUNDATION PLAN – WEST

3

⅛"=1'-0"

EXTERIOR T.O. FTG ELEV. = 88'-11" U.N.O.
T.O. INTERIOR PAD FTG = G.C. COORD. EL.
TO ALLOW FOR PLUMBING TO PASS ABOVE FTG

8' 0 8' 16'
1/8"=1'-0"

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2	ADDENDUM	12/11/17
3	ADDENDUM #2	3/16/18

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

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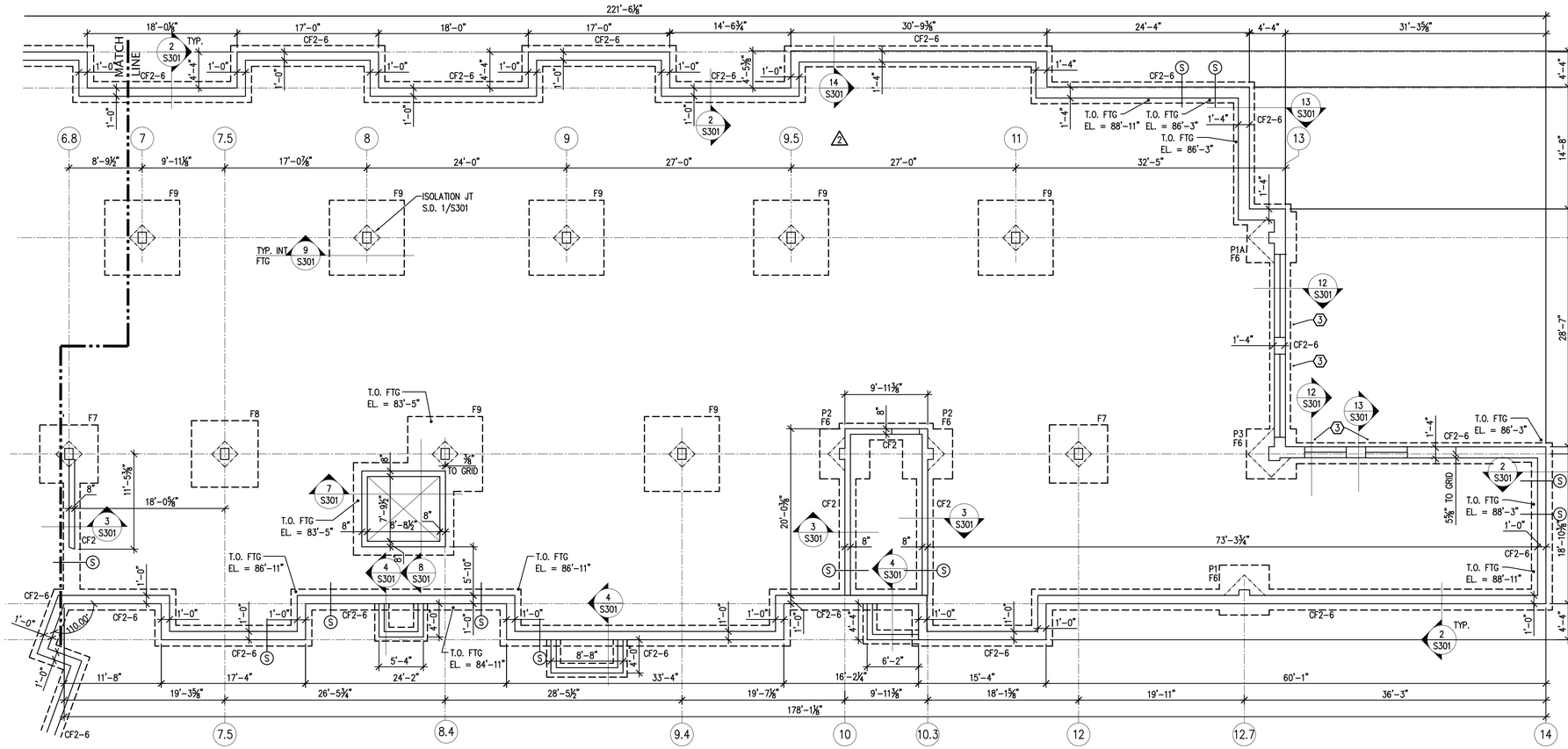
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BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/17

PHASE
100% CDs

PROJECT
16098

SHEET
S101A
FOUNDATION PLAN "WEST"



FOUNDATION PLAN – EAST

1/8"=1'-0"

EXTERIOR T.O. FTG ELEV. = 88'-11" U.N.O.
T.O. INTERIOR PAD FTG = G.C. COORD. EL.
TO ALLOW FOR PLUMBING TO PASS ABOVE FTG

FOUNDATION PLAN NOTES:

1. SEE SHEET S301 FOR GENERAL FOUNDATION DETAILS & 10/S301 FOR STANDARD CMU DETAILS. SEE SHEET S001 FOR GENERAL CONCRETE AND FOUNDATION NOTES.
2. TYPICAL INTERIOR GARAGE SLAB ON GRADE, U.N.O.
   THICKNESS = 4"
   REINFORCEMENT = FIBERMESH.
   BASE = MIN OF 6" COMPACTED GRANULAR FILL
   VAPOR RETARDER/BARRIER = 10 MIL POLY
   T.O. SLAB ELEVATION = 89'-3", TYP – SEE ARCH FOR SLOPE LINES.
3. SEE ARCH FOR LOCATIONS OF CMU PARTITIONS.
   SEE DETAIL 5/S301 FOR SLAB AT CMU PARTITIONS.
4. (S) – DENOTES FOOTING STEP – S.D. 1/S301.
5. SEE S201 A/B FOR CIP WALL REINFORCING.

KEYNOTES

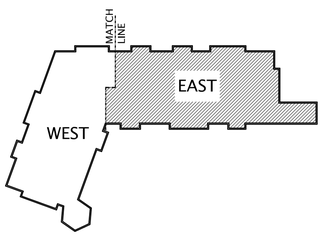
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2. PROVIDE FOOTING STEP AS REQUIRED TO MAINTAIN 3'-8" (MIN) FROM WELL FINISHED GRADE TO BOTTOM OF FOOTING.
3. CONCRETE APRON – SEE ARCH FOR DIMENSIONS.

FOOTING SCHEDULE

MARK	SIZE	THICKNESS	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT	NOTES/COMMENTS
CF2	2'-0" CONT.	1'-0"	(2) #5 CONT.	#4 @ 4'-0" O.C.	–
CF2-6	2'-6" CONT.	1'-0"	(2) #5 CONT.	#4 @ 4'-0" O.C.	–
F6	6'-0" SQ.	1'-0"	(6) #6	(6) #6	–
F7	7'-0" SQ.	1'-2"	(7) #6	(7) #6	–
F8	8'-0" SQ.	1'-4"	(8) #6	(8) #6	–
F9	9'-0" SQ.	1'-6"	(9) #6	(9) #6	–

CONCRETE PIER SCHEDULE

MARK	DETAIL	NOTES/COMMENTS
P1	1/S302	S.D. 9/S401
P1A	1A/S302	S.D. 9/S401
P2	2/S302	S.D. 9/S401
P3	3/S302	S.D. 9/S401
P4	NOT USED	–



KEYPLAN

NO SCALE

8' 0 8 16

1/8"=1'-0"

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BOTTINEAU RIDGE II APARTMENTS

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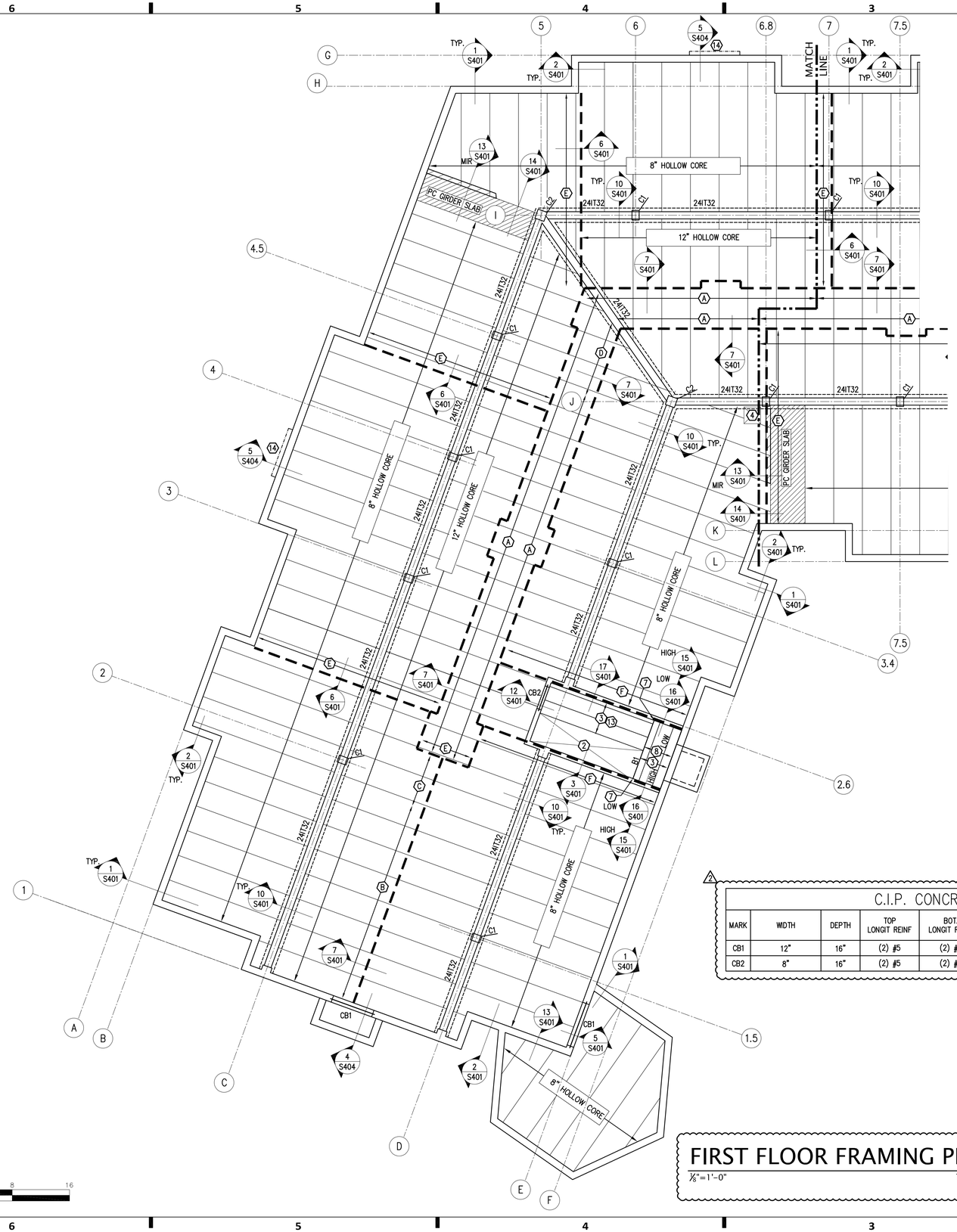
SHEET
S101B

FOUNDATION PLAN "EAST"

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

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FRAMING PLAN NOTES:

1. TYPICAL REINFORCEMENT OF BASEMENT CAST-IN-PLACE CONCRETE WALLS TO BE: (U.N.O.)

   12" CIP –EXTERIOR WALLS, U.N.O.:
   #5 VERTS @ 1'-4" O.C. (INSIDE FACE)
   #5 HORIZ. @ 1'-0" O.C. (INSIDE FACE)

   8"/16" CIP – EXTERIOR GRIDS G & H:
   #5 VERTS @ 1'-4" O.C. (INSIDE FACE – FULL HEIGHT)
   #5 HORIZ. @ 1'-0" O.C. (INSIDE FACE – FULL HEIGHT)
   #4 VERTS @ 1'-4" O.C. (OUTSIDE FACE 16" WALL)
   #4 HORIZ. @ 1'-0" O.C. (OUTSIDE FACE 16" WALL)

   8" CIP – EXTERIOR WALL (GRIDS 13, 12.7, AND J):
   #4 VERTS @ 1'-6" O.C. (CENTERED)
   #4 HORIZ. @ 1'-0" O.C. (CENTERED)

   8" CIP –INTERIOR WALLS:
   #4 VERTS @ 1'-6" O.C. (CENTERED)
   #4 HORIZ. @ 1'-0" O.C. (CENTERED)

   SEE GENERAL NOTES ON S001, 10/S301, AND PLAN FOR ADDITIONAL REINFORCEMENT REQUIRED.

2. PRECAST SUPPLIER TO PROVIDE FLOOR OPENING FOR ELECTRICAL FEED LINES. G.C. TO COORDINATE WITH ELECTRICAL.

3. PRECAST TOPPING TO BE 1" GYPCRETE. TOPPING TO BE NON-COMPOSITE FOR PRECAST DESIGN.

4. SEE SHEET S206/S207 FOR SHEAR WALL COMPONENETS EMBEDED INTO CIP FOUNDATION WALLS.

KEYNOTES

1. NOT USED
2. SEE DETAIL 1/S202A FOR STAIR FRAMING.
3. 24" LANDING TRUSSES @ 2'-0" O.C. UNO
4. PRECAST SUPPLIER TO PROVIDE FRAMED OPENING FOR TRASH CHUTE. SEE MECH. FOR DIMENSION AND LOCATION.
5. SEE DETAIL 8/S401 FOR PRECAST BEAM BEARING.
6. INFILL W/CONC. TOPPING TO 100'-0" ELEV.
7. ATTACH STAIR HEADER TO CIP CONCRETE WALL W/ SIMPSON HU410 WITH TITEN SCREWS PER SIMPSON SPECS.
8. 2x12 LANDING JOISTS @ 16" O.C.
9. CONC. SLAB W/ #5 E.W. @ 1'-0" O.C. OVER RIGID INSULATION. SEE ARCH FOR SLOPE & FINISH.
10. T.O.PLANK = 99'-3"
11. T.O.PLANK = 98'-11"
12. SEE DETAIL 9A/S401 FOR PRECAST BEAM BEARING.
13. SIMPSON LBV3.56/24 TOP FLANGE HANGER @ WOOD BEAM.
14. ALUMINUM FRAMED DECK.
15.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	COMMENTS
C1	12"x16" PRECAST	BY SUPPLIER	–
C2	16"x16" PRECAST	BY SUPPLIER	–
C3	6x6 WOOD POST	SIMPSON ABW66Z (GROUT STANDOFF)	SIMPSON CCQ/ECCQ COL. CAP
C4	5¼x7 PSL	–	SIMPSON CCQ/ECCQ COL. CAP
C5	5¼x7 PSL	SIMPSON ABW (GROUT STANDOFF)	SIMPSON CCQ/ECCQ COL. CAP

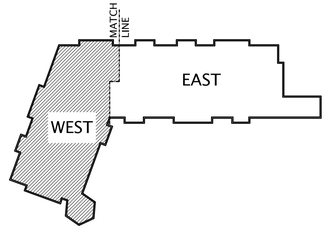
C.I.P. CONCRETE BEAM SCHEDULE

MARK	WIDTH	DEPTH	TOP LONGIT REINF	BOT. LONGIT REINF	TYP STIRRUPS	STIRRUPS @ ENDS	DISTANCE FROM BM END FOR END STIRRUPS	DETAILS
CB1	12"	16"	(2) #5	(2) #5	#4 @ 8" O.C.	#4 @ 6" O.C.	18"	6/S405
CB2	8"	16"	(2) #5	(2) #5	#4 @ 8" O.C.	#4 @ 8" O.C.	N/A	6/S405

PRECAST LOADING KEYNOTES

SUPERIMPOSED LOADS PROVIDED ARE NOMINAL LOADS TO BE USED IN 2012 IBC COMBINATIONS WITH APPROPRIATE LOAD FACTORS. LIVE LOADS HAVE NOT BEEN REDUCED AS PER ASCE 7-10.

- (A) SUPERIMPOSED UNIFORM LINE LOAD DL=2.1 KLF, LL=2.3 KLF, SL=0.8 KLF
- (B) SUPERIMPOSED UNIFORM LINE LOAD DL=3.1 KLF, LL=3.7 KLF, SL=1.2 KLF
- (C) SUPERIMPOSED UNIFORM LINE LOAD DL=3.5 KLF, LL=4.2 KLF, SL=1.4 KLF
- (D) SUPERIMPOSED UNIFORM LINE LOAD DL=2.1 KLF, LL=3.7 KLF, SL=0.8 KLF
- (E) SUPERIMPOSED UNIFORM LINE LOAD DL=0.6 KLF, LL=0.3 KLF, SL=0.1 KLF
- (F) SUPERIMPOSED UNIFORM LINE LOAD DL=1.1 KLF, LL=1.6 KLF, SL=0.1 KLF
- (G) SUPERIMPOSED CONCENTRATED LOAD DL=4.5 K, LL=5.6 K, SL=4.8 K
- (H) SUPERIMPOSED CONCENTRATED LOAD DL=10.4 K, LL=11.8 K, SL=8.8 K
- (I) SUPERIMPOSED CONCENTRATED LOAD DL=12.0 K, LL=13.4 K, SL=8.2K
- (J) SUPERIMPOSED CONCENTRATED LOAD DL=11.4 K, LL=13.6 K, SL=8.3 K
- (K) SUPERIMPOSED CONCENTRATED LOAD DL=13.3 K, LL=17.8 K, SL=8.4 K
- (L) SUPERIMPOSED CONCENTRATED LOAD DL=8.1 K, LL=10.1 K, SL=4.2 K
- (M) SUPERIMPOSED UNIFORM LINE LOAD DL=1.5 KLF, LL=0.3 KLF, SL=0.1 KLF
- (N) SUPERIMPOSED UNIFORM LINE LOAD DL=1.5 KLF, LL=1.8 KLF, SL=0.6 KLF



KEYPLAN
NO SCALE

FIRST FLOOR FRAMING PLAN – WEST

1/8"=1'-0" — T.O. H.C. PLANK = 99'-11" U.N.O.

1/8"=1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM	12/7/17
2	ADDENDUM #2	3/16/18

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/17

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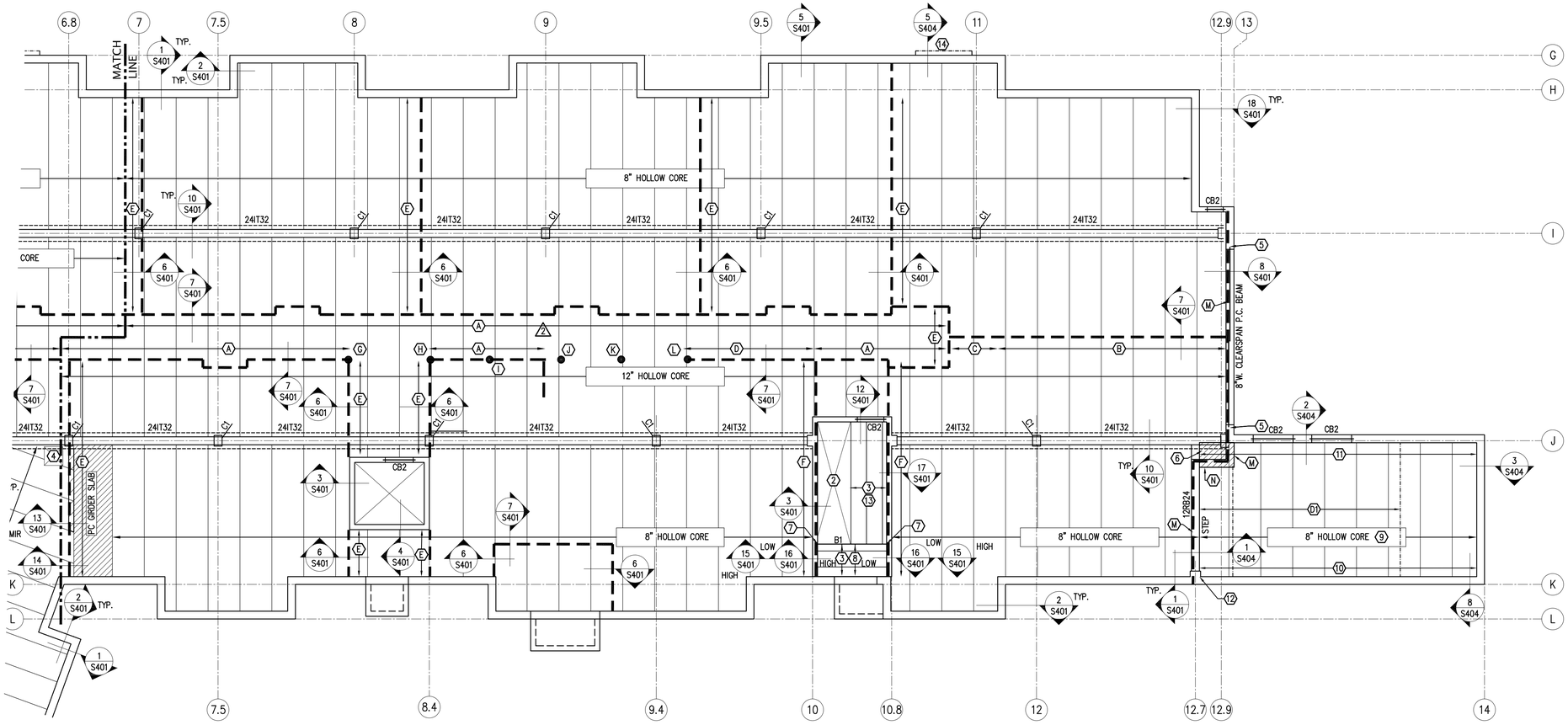
PROJECT
16098

SHEET
S201A
FIRST FLOOR FRAMING PLAN "WEST"

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

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FIRST FLOOR FRAMING PLAN – EAST

1/8"=1'-0"

T.O. H.C. PLANK = 99'-11" U.N.O.

FRAMING PLAN NOTES:

1. TYPICAL REINFORCEMENT OF BASEMENT CAST-IN-PLACE CONCRETE WALLS TO BE: (U.N.O.)

   12" CIP -EXTERIOR WALLS, U.N.O.:
   #5 VERTS @ 1'-4" O.C. (INSIDE FACE)
   #5 HORIZ. @ 1'-0" O.C. (INSIDE FACE)

   8"/16" CIP – EXTERIOR GRIDS G & H:
   #5 VERTS @ 1'-4" O.C. (INSIDE FACE – FULL HEIGHT)
   #5 HORIZ. @ 1'-0" O.C. (INSIDE FACE – FULL HEIGHT)
   #4 VERTS @ 1'-4" O.C. (OUTSIDE FACE 16" WALL)
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   8" CIP – EXTERIOR WALL (GRIDS 13, 12.7, AND J):
   #4 VERTS @ 1'-6" O.C. (CENTERED)
   #4 HORIZ. @ 1'-0" O.C. (CENTERED)

   8" CIP –INTERIOR WALLS:
   #4 VERTS @ 1'-6" O.C. (CENTERED)
   #4 HORIZ. @ 1'-0" O.C. (CENTERED)

   SEE GENERAL NOTES ON S001, 10/S301, AND PLAN FOR ADDITIONAL REINFORCEMENT REQUIRED.

2. PRECAST SUPPLIER TO PROVIDE FLOOR OPENING FOR ELECTRICAL FEED LINES. G.C. TO COORDINATE WITH ELECTRICAL.

3. PRECAST TOPPING TO BE 1" GYPCRETE. TOPPING TO BE NON-COMPOSITE FOR PRECAST DESIGN.

4. SEE SHEET S206/S207 FOR SHEAR WALL COMPONENETS EMBEDED INTO CIP FOUNDATION WALLS.

KEYNOTES

1. NOT USED
2. SEE DETAIL 1/S202A FOR STAIR FRAMING.
3. 24" LANDING TRUSSES @ 2'-0" O.C. UNO
4. PRECAST SUPPLIER TO PROVIDE FRAMED OPENING FOR TRASH CHUTE. SEE MECH. FOR DIMENSION AND LOCATION.
5. SEE DETAIL 8/S401 FOR PRECAST BEAM BEARING.
6. INFILL W/CONC. TOPPING TO 100'-0" ELEV.
7. ATTACH STAIR HEADER TO CIP CONCRETE WALL W/ SIMPSON HU410 WITH TITEN SCREWS PER SIMPSON SPECS.
8. 2x12 LANDING JOISTS @ 16" O.C.
9. CONC. SLAB W/ #5 E.W. @ 1'-0" O.C. OVER RIGID INSULATION. SEE ARCH FOR SLOPE & FINISH.
10. T.O.PLANK = 99'-3"
11. T.O.PLANK = 98'-11"
12. SEE DETAIL 9A/S401 FOR PRECAST BEAM BEARING.
13. SIMPSON LBV3.56/24 TOP FLANGE HANGER @ WOOD BEAM.
14. ALUMINUM FRAMED DECK.
15.

PRECAST LOADING KEYNOTES

SUPERIMPOSED LOADS PROVIDED ARE NOMINAL LOADS TO BE USED IN 2012 IBC COMBINATIONS WITH APPROPRIATE LOAD FACTORS. LIVE LOADS HAVE NOT BEEN REDUCED AS PER ASCE 7-10.

- A SUPERIMPOSED UNIFORM LINE LOAD DL=2.1 KLF, LL=2.3 KLF, SL=0.8 KLF
- B SUPERIMPOSED UNIFORM LINE LOAD DL=3.1 KLF, LL=3.7 KLF, SL=1.2 KLF
- C SUPERIMPOSED UNIFORM LINE LOAD DL=3.5 KLF, LL=4.2 KLF, SL=1.4 KLF
- D SUPERIMPOSED UNIFORM LINE LOAD DL=2.1 KLF, LL=3.7 KLF, SL=0.8 KLF
- E SUPERIMPOSED UNIFORM LINE LOAD DL=0.6 KLF, LL=0.3 KLF, SL=0.1 KLF
- F SUPERIMPOSED UNIFORM LINE LOAD DL=1.1 KLF, LL=1.6 KLF, SL=0.1 KLF
- G SUPERIMPOSED CONCENTRATED LOAD DL=4.5 K, LL=5.6 K, SL=4.8 K
- H SUPERIMPOSED CONCENTRATED LOAD DL=10.4 K, LL=11.8 K, SL=8.8 K
- I SUPERIMPOSED CONCENTRATED LOAD DL=12.0 K, LL=13.4 K, SL=8.2K
- J SUPERIMPOSED CONCENTRATED LOAD DL=11.4 K, LL=13.6 K, SL=8.3 K
- K SUPERIMPOSED CONCENTRATED LOAD DL=13.3 K, LL=17.8 K, SL=8.4 K
- L SUPERIMPOSED CONCENTRATED LOAD DL=8.1 K, LL=10.1 K, SL=4.2 K
- M SUPERIMPOSED UNIFORM LINE LOAD DL=1.5 KLF, LL=0.3 KLF, SL=0.1 KLF
- N SUPERIMPOSED UNIFORM LINE LOAD DL=1.5 KLF, LL=1.8 KLF, SL=0.6 KLF

SNOW DRIFT:

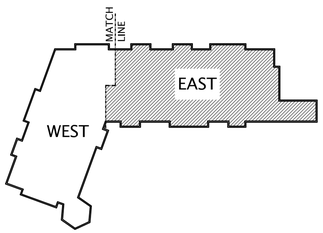


C.I.P. CONCRETE BEAM SCHEDULE

MARK	WIDTH	DEPTH	TOP LONGIT REINF	BOT. LONGIT REINF	TYP STIRRUPS	STIRRUPS @ ENDS	DISTANCE FROM BM END FOR END STIRRUPS	DETAILS
CB1	12"	16"	(2) #5	(2) #5	#4 @ 8" O.C.	#4 @ 6" O.C.	18"	6/S405
CB2	8"	16"	(2) #5	(2) #5	#4 @ 8" O.C.	#4 @ 8" O.C.	N/A	6/S405

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	COMMENTS
C1	12"x16" PRECAST	BY SUPPLIER	–
C2	16"x16" PRECAST	BY SUPPLIER	–
C3	6x6 WOOD POST	SIMPSON ABW66Z (GROUT STANDOFF)	SIMPSON CCQ/ECCQ COL. CAP
C4	5¼x7 PSL	–	SIMPSON CCQ/ECCQ COL. CAP
C5	5¼x7 PSL	SIMPSON ABW (GROUT STANDOFF)	SIMPSON CCQ/ECCQ COL. CAP



KEYPLAN

NO SCALE

8' 0 8 16

1/8"=1'-0"

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322 1st Ave N, Suite #600
Minneapolis, MN 55401
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facsimile 6 1 2.7 4 6.4 7 5 4
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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM	12/7/17
2	ADDENDUM	12/11/17
3	ADDENDUM #2	3/16/18

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

SANDMAN Structural Engineers
1587 30th Avenue South Moorhead, MN 56560
218.227.0022 www.SandmanSE.com Project-1623-9

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

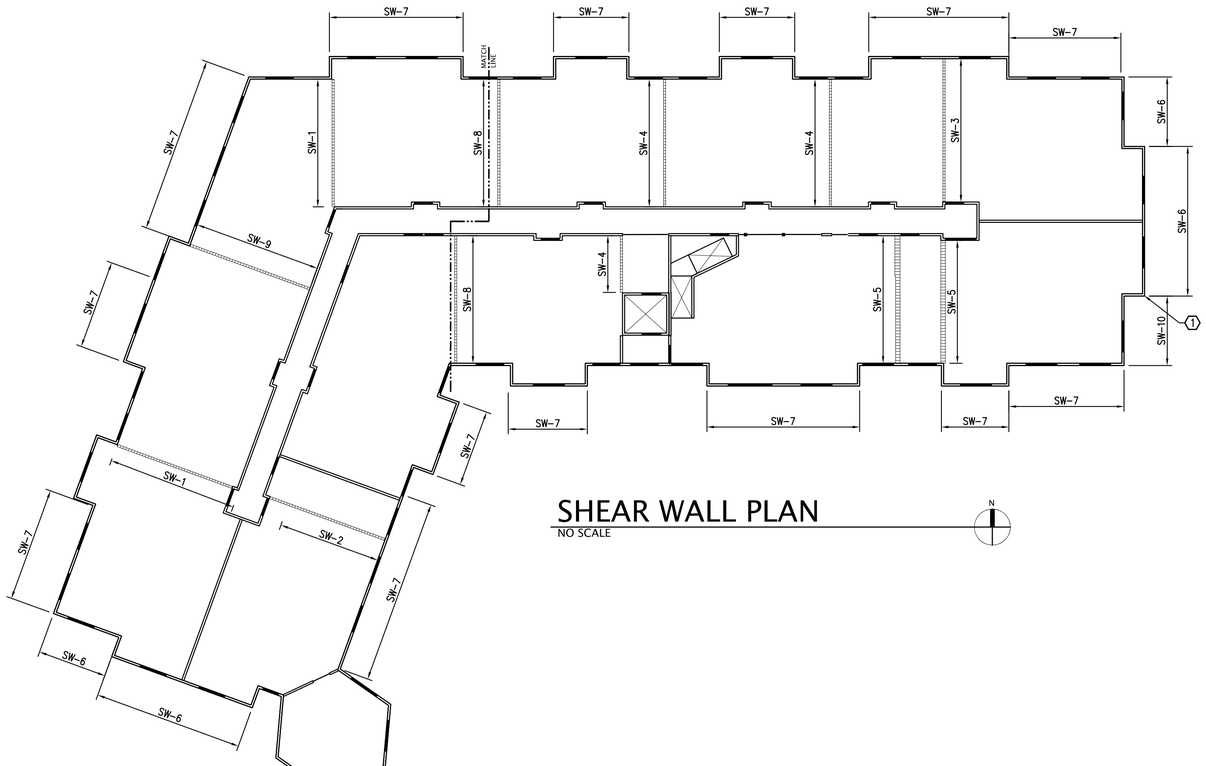
DATE 12/04/17

PHASE 100% CDs

PROJECT 16098

SHEET **S201B**

FIRST FLOOR FRAMING PLAN "EAST"

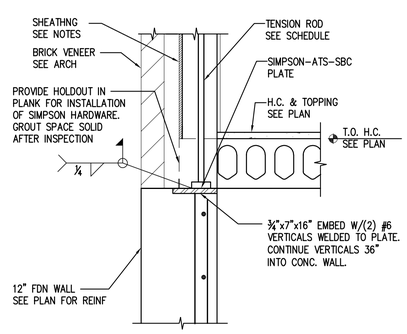


SHEAR WALL PLAN

NO SCALE

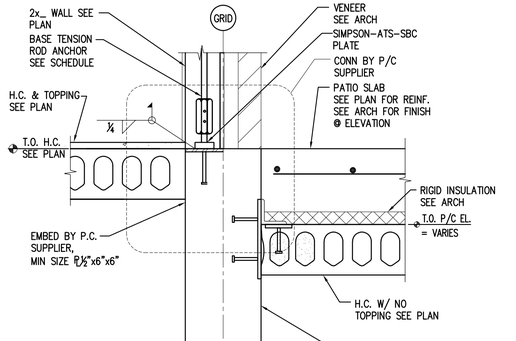
KEYNOTES

1. SEE DETAIL A-1/S206 FOR HOLD-DOWN ANCHORAGE.



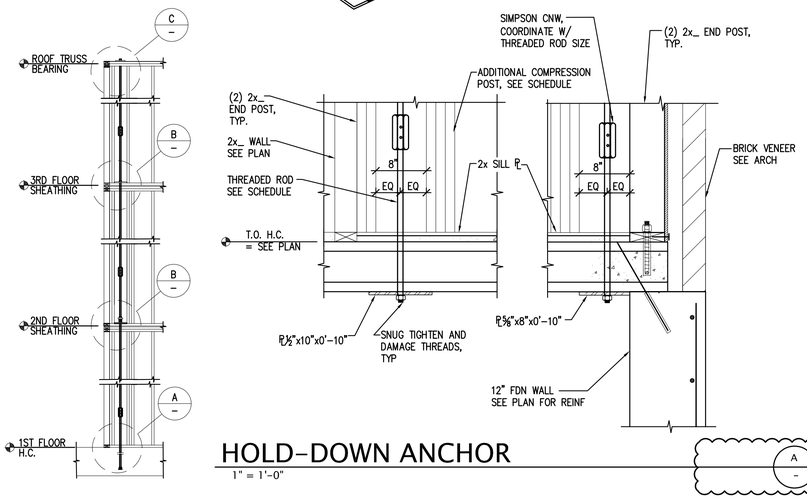
HOLD DOWN DETAIL

1" = 1'-0"



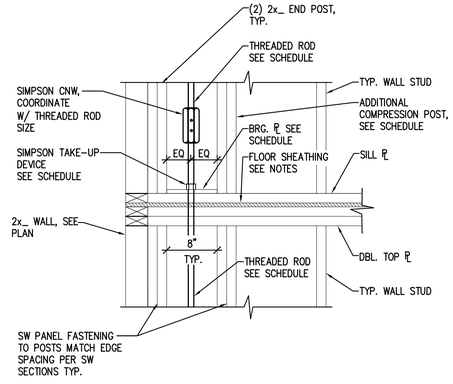
HOLDDOWN ANCHOR

1" = 1'-0"



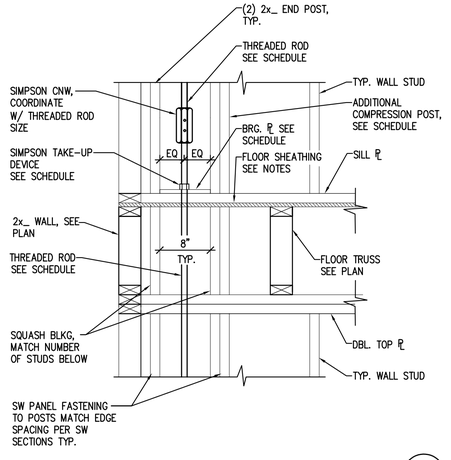
HOLD-DOWN ANCHOR

1" = 1'-0"



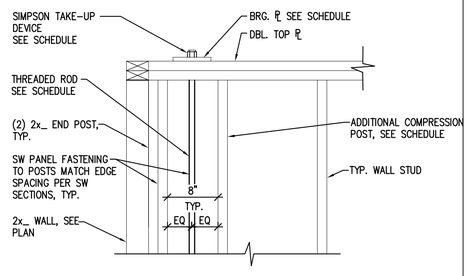
TIE DOWN @ FLOOR LEVEL

1" = 1'-0"



TIE DOWN @ ROOF LEVEL

1" = 1'-0"



STRONG- ROD ATS

NO SCALE

1" 0 1 2
1"=1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
2	ADDENDUM	12/11/17
3	ADDENDUM #2	3/16/18

BOTTINEAU RIDGE II APARTMENTS

JLG ARCHITECTS
MAPLE GROVE, MN

DATE
12/04/17

PHASE
100% CDs

PROJECT
16098

SHEET
S206
SHEAR WALL PLAN, & DETAILS

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

SANDMAN Structural Engineers
1387 30th Avenue South — Moorhead, MN 56560
218.227.0002 www.SandmanSE.com Project 1623-9

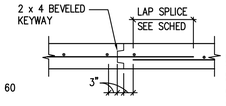
REINFORCING STEEL SPLICE LENGTHS FOR STANDARD NON-COATED BARS							
CONCRETE STRENGTH F'c	TYPE #1 SPLICE CLASS A SPLICE		TYPE #2 SPLICE CLASS B SPLICE		TYPE #3 SPLICE CLASS B SPLICE		TYPE #4 SPLICE COMPRESSION SPLICE
	#6 AND SMALLER	#7 AND LARGER	#6 AND SMALLER	#7 AND LARGER	#6 AND SMALLER	#7 AND LARGER	#4 AND LARGER
3000 psi	44 Bd	55 Bd	57 Bd	71 Bd	85 Bd	107 Bd	30 Bd
4000 psi	38 Bd	47 Bd	49 Bd	62 BD	74 Bd	92 Bd	30 Bd

Bd = BAR DIAMETER

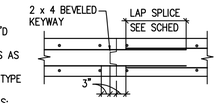
REBAR CLEAR COVER SCHEDULE	
CONCRETE REINFORCEMENT CLEAR COVER, U.N.O. (NON-PRESTRESSED)	
CONDITION & DESIGNATION	CLEAR COVER
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THRU #18	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER: #5 OR SMALLER	1½"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH	
SLABS, WALLS, JOISTS: #14 & #18	1½"
SLABS, WALLS, JOISTS: #11 & SMALLER	¾"
BEAMS, COLUMNS (PRIMARY REINF, TIES, STIRRUPS, SPIRALS)	1½"

NOTES:

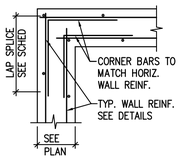
1. MIN. LAP: 18" FOR TYPE #1 THRU TYPE #3 & 12" FOR TYPE #4 SPLICES.
2. REQ'D. SPLICE LENGTH = LISTED SPLICE LENGTH X ADJUSTMENT FACTORS
   ADJUSTMENT FACTORS = 1.0 IF NONE BELOW APPLY
   A. FOR HORIZ. REINFORCING W/ MORE THAN 12" OF FRESH CONCRETE PLACED BELOW BAR – ADJUSTMENT FACTOR = 1.3
   B. FOR Fy OTHER THAN 60 KSI – ADJUSTMENT FACTOR = Fy (USED)/ 60
   C. FOR LIGHT WEIGHT CONCRETE – ADJUSTMENT FACTOR = 1.3
   D. TYPICAL EPOXY COATED REINFORCING – ADJUSTMENT FACTOR = 1.2
   E. EPOXY COATED REINFORCING W/ COVER LESS THAN Bd OR CLEAR SPACING LESS THAN 6 Bd – ADJUSTMENT FACTOR = 1.5
3. ALL ADJUSTMENT FACTORS THAT APPLY SHALL BE USED TO CALCULATE REQ'D SPLICE LENGTH.
4. UNLESS OTHERWISE NOTED ON PLAN OR DETAILS , LAP THE FOLLOWING BARS AS DEFINED IN LAP SPLICE TABLE ABOVE.
   A. VERTICAL HOOKED OR STRAIGHT BARS EXTENDING FROM FOOTINGS: TYPE #4 SPLICE
   B. HORIZONTAL BARS IN GRADE BEAMS, FOOTINGS, & FOUNDATION WALLS: TYPE #2 SPLICE
   C. VERTICAL BARS IN COLUMNS & PIERS: TYPE #4 SPLICE
   D. VERTICAL BARS IN BASEMENT & RETAINING WALLS: TYPE #3 SPLICE
   E. U.N.O ON PLAN OR DETAILS, LAP THE SLAB BARS WITH A LAP LENGTH OF 48 Bd.



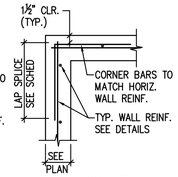
WALL CONSTRUCTION JOINT



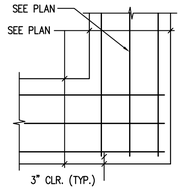
WALL CONSTRUCTION JOINT



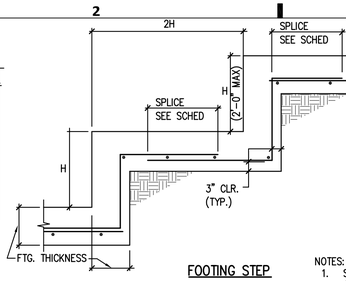
WALL CORNER



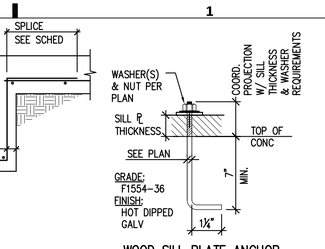
WALL CORNER



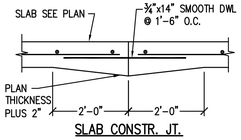
FOOTING CORNER



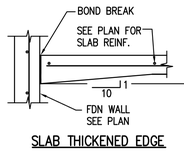
FOOTING STEP



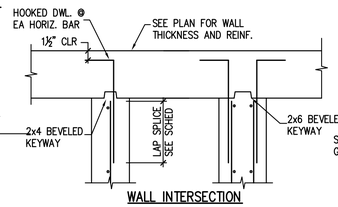
WOOD SILL PLATE ANCHOR



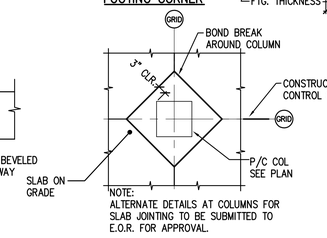
SLAB CONSTR. JT.



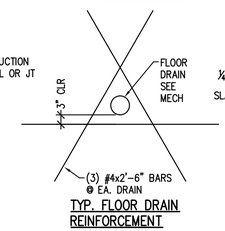
SLAB THICKENED EDGE



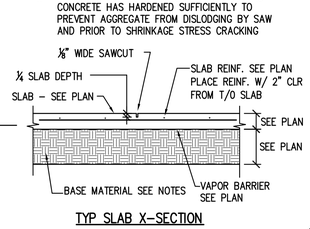
WALL INTERSECTION



COLUMN ISOLATION JOINT



TYP. FLOOR DRAIN REINFORCEMENT

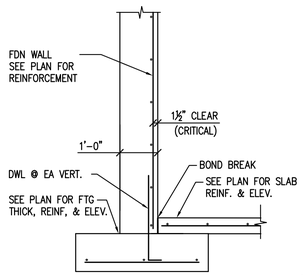


NOTES:
1. SAWCUT JT SHALL BE EXECUTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM DISLODGING BY SAW AND PRIOR TO SHRINKAGE STRESS CRACKING

TYP SLAB X-SECTION

STANDARD FOUNDATION DETAILS

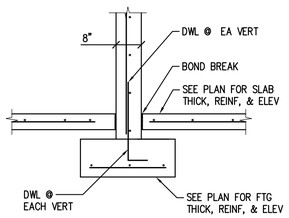
1/2"=1'-0"



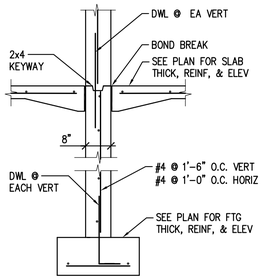
FDN DETAIL

1/2"=1'-0"

2 S301



SHALLOW

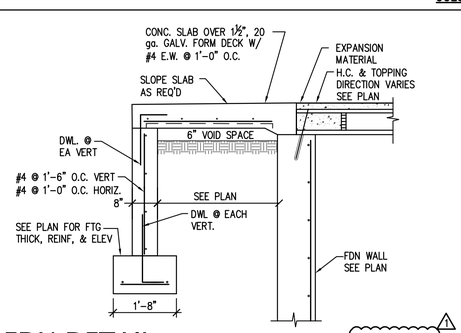


DEEP

FDN DETAIL

1/2"=1'-0"

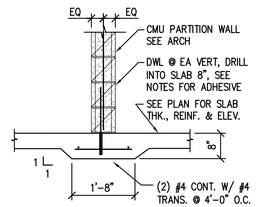
3 S301



FDN DETAIL

1/2"=1'-0"

4 S301



THICKENED SLAB

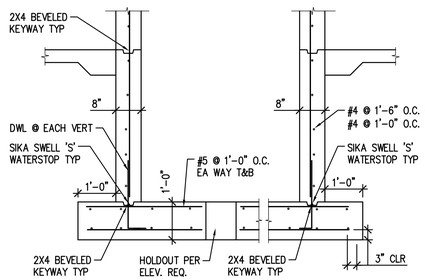
1/2"=1'-0"

5 S301

NOT USED

1/2"=1'-0"

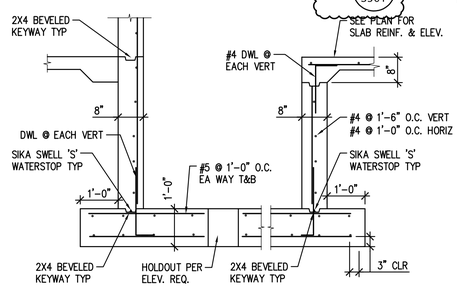
6 S301



FDN DETAIL

1/2"=1'-0"

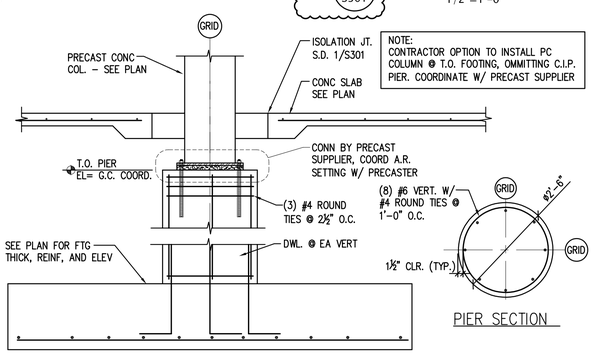
7 S301



ELEVATOR PIT

1/2"=1'-0"

8 S301



NOTE: CONTRACTOR OPTION TO INSTALL PC COLUMN @ T.O. FOOTING, OMMITTING C.I.P. PIER. COORDINATE W/ PRECAST SUPPLIER

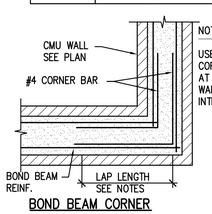
PIER SECTION

PC COLUMN FDN DETAIL

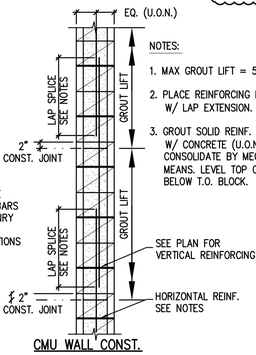
1/2"=1'-0"

9 S301

CMU REINF LAP SCHEDULE	
BAR	LAP LENGTH
#3	18"
#4	24"
#5	30"
#6	36"



BOND BEAM CORNER



CMU WALL CONST.

STD CMU DETAILS

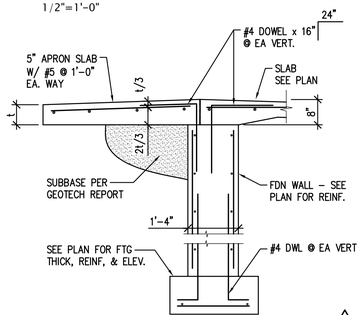
1/2"=1'-0"

10 S301

NOT USED

1/2"=1'-0"

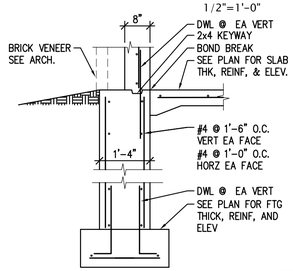
11 S301



FDN DETAIL

1/2"=1'-0"

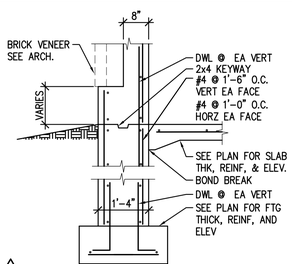
12 S301



FDN DETAIL

1/2"=1'-0"

13 S301



FDN DETAIL

1/2"=1'-0"

14 S301

2' 0 2 4

1/2"=1'-0"

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

SANDMAN Structural Engineers
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218.227.0022 www.SandmanSE.com Project:1623-9

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BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

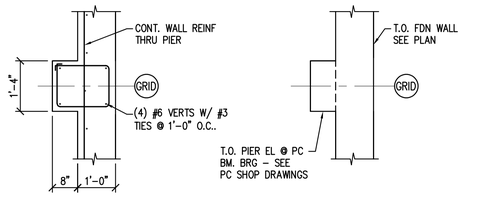
DATE 12/04/17

PHASE 100% CDs

PROJECT 16098

SHEET S301
FOUNDATION DETAILS

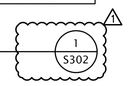
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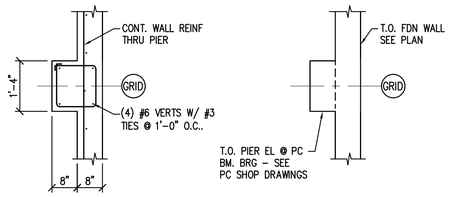


PIER SECTION

PIER DETAIL (P1) (P1A)

1/2"=1'-0"

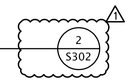


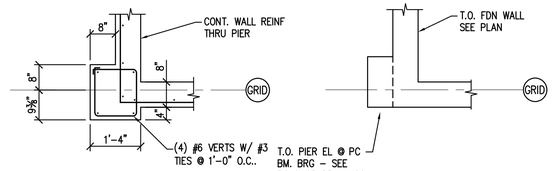


PIER SECTION

PIER DETAIL (P2)

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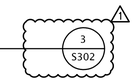




PIER SECTION

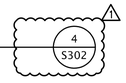
PIER DETAIL (P3)

½" = 1'-0"



NOT USED

1/2"=1'-0"





3/15/2018 4:24 PM

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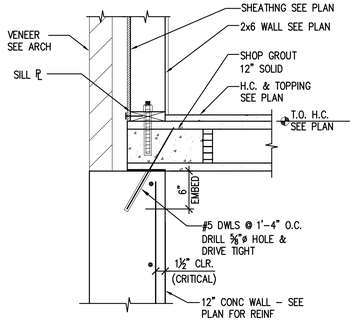
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MAPLE GROVE, MN

DATE
12/04/17

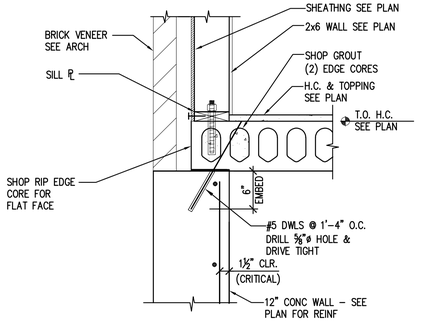
PHASE
100% CDs

PROJECT
16098

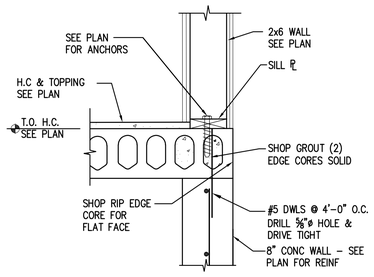
SHEET
S302
FOUNDATION DETAILS



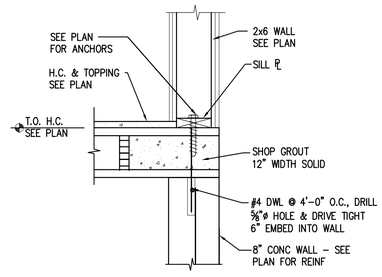
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1"=1'-0"



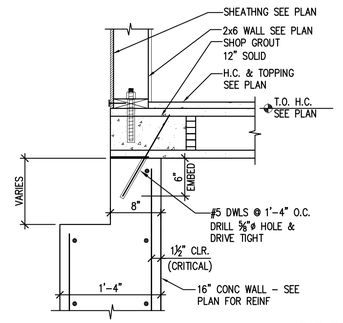
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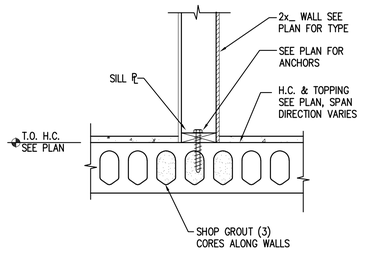
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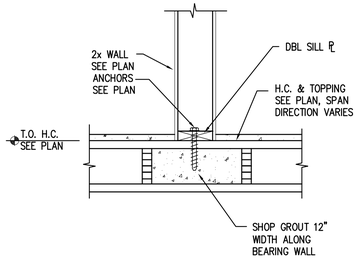
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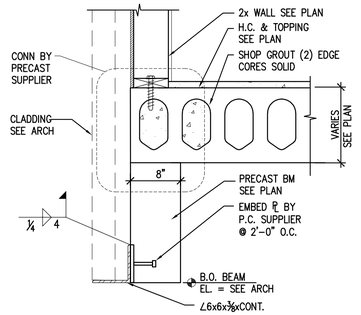
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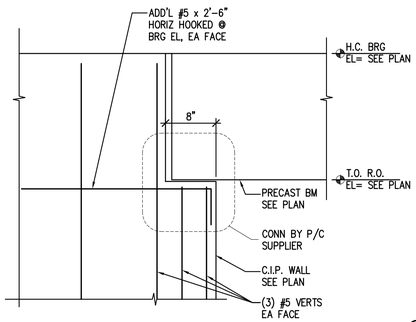
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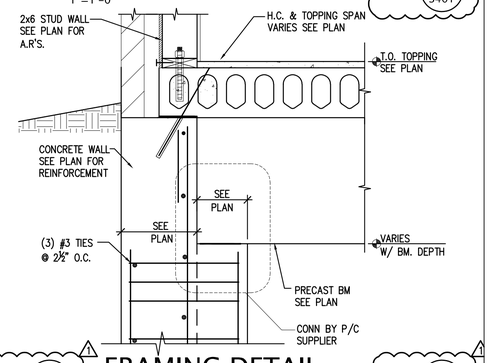
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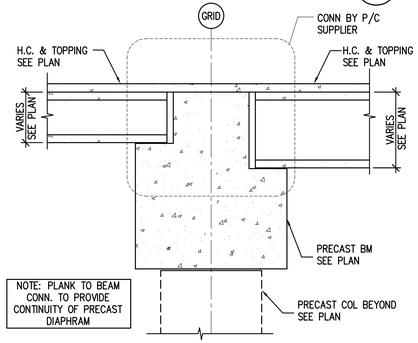
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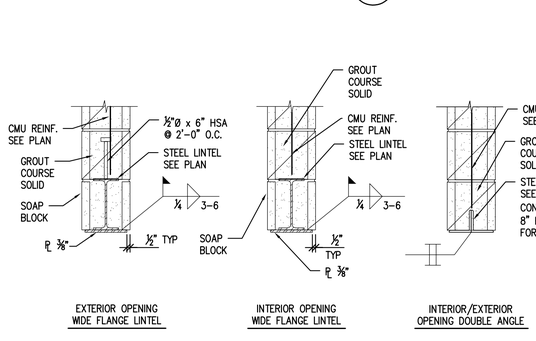
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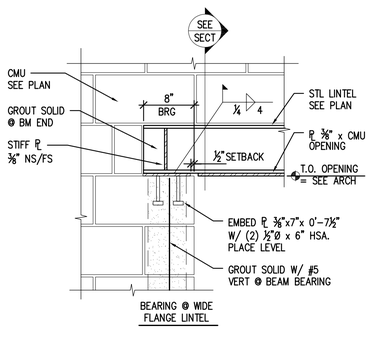
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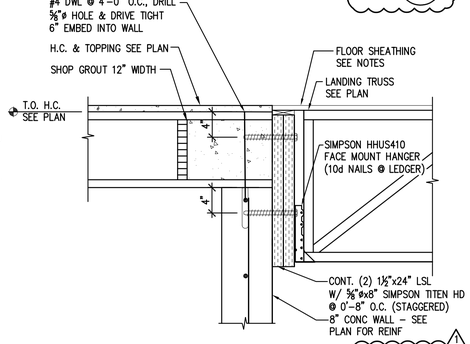
STL. LINTEL DTL.
1"=1'-0"



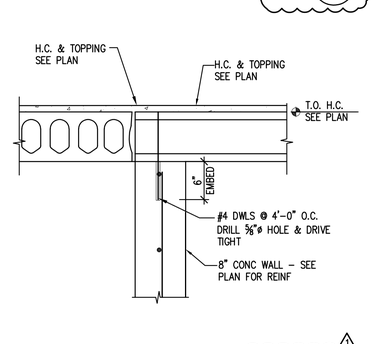
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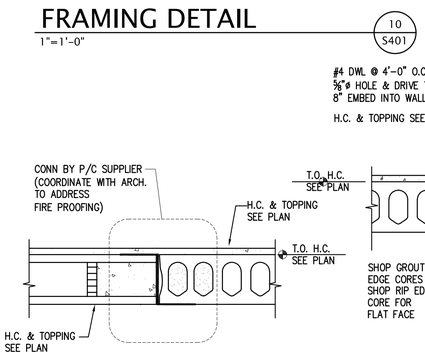


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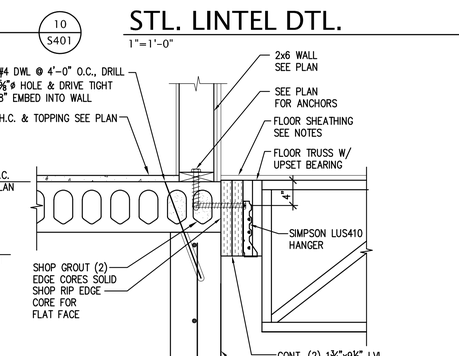


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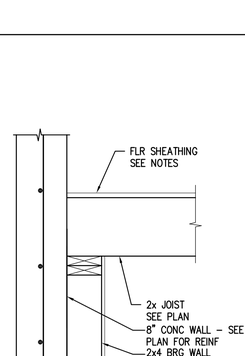




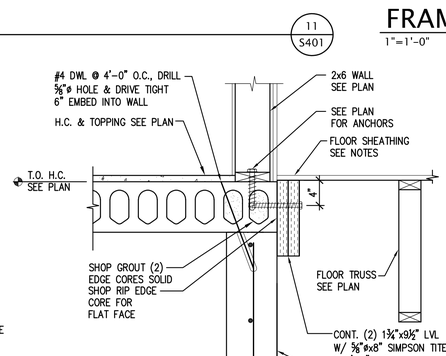
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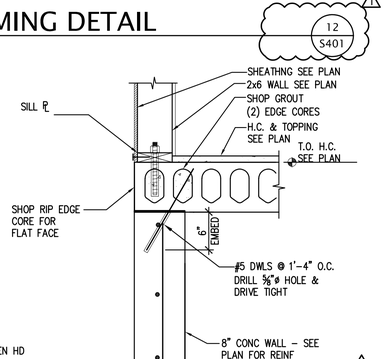
FRAMING DETAIL 15 S401
1"=1'-0"



JOIST BEARING 16 S401
1"=1'-0"



FRAMING DETAIL 17 S401
1"=1'-0"



FRAMING DETAIL 18 S401
1"=1'-0"

1' 0 2
1"=1'-0"

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Minneapolis, MN 55401
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BOTTINEAU RIDGE II APARTMENTS

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MAPLE GROVE, MN

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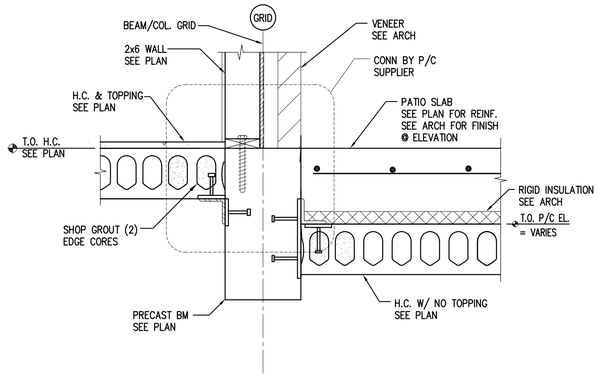
SHEET
S401
FRAMING DETAILS

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

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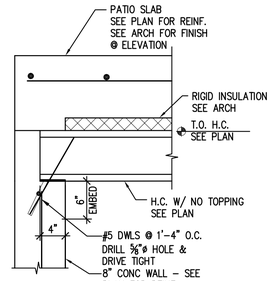
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HOLLOW CORE BEARING

1" = 1'-0"

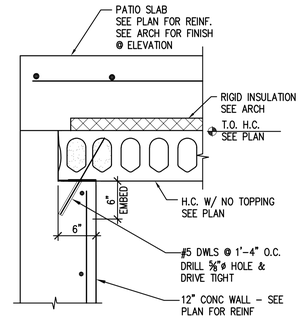
1 S404



FRAMING DETAIL

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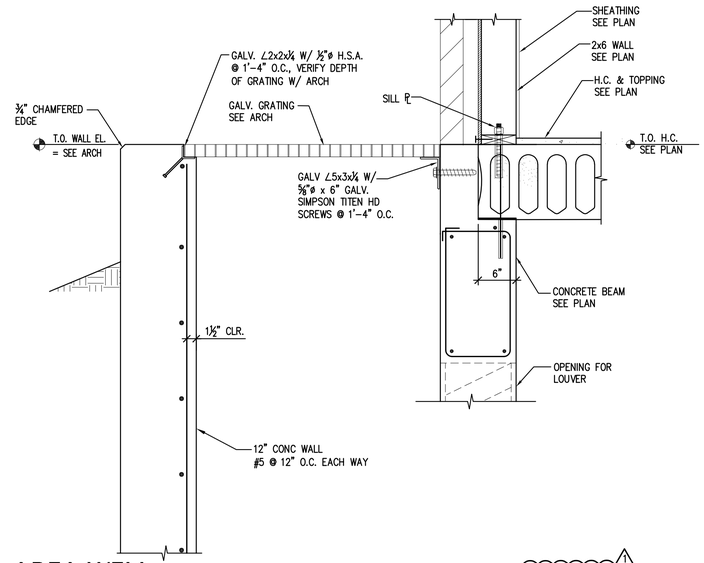
2 S404



FRAMING DETAIL

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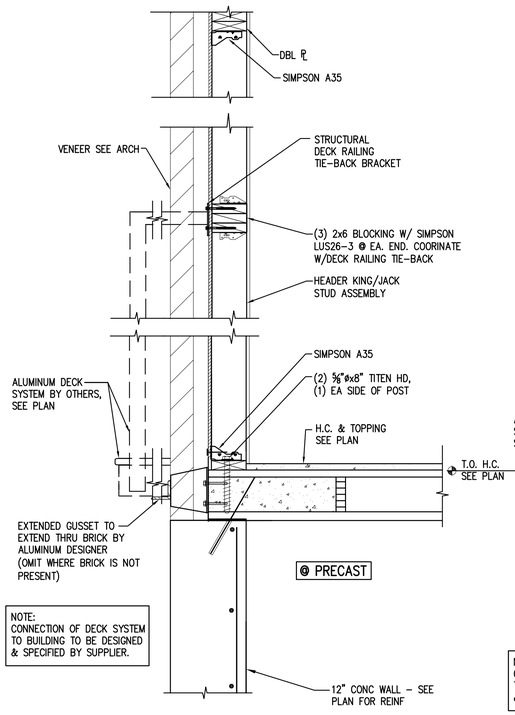
3 S404



AREA WELL

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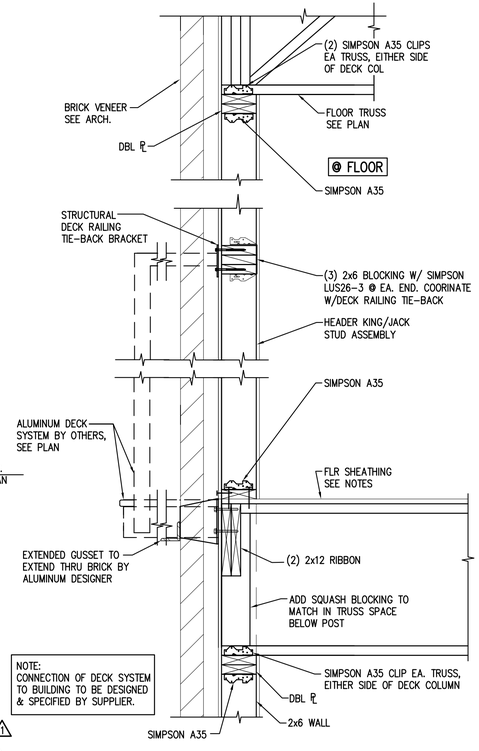
4 S404



DECK DETAIL

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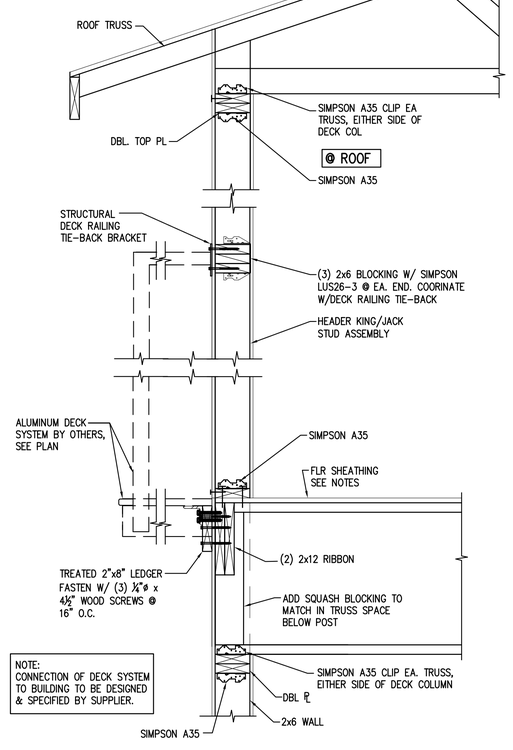
5 S404



DECK DETAIL

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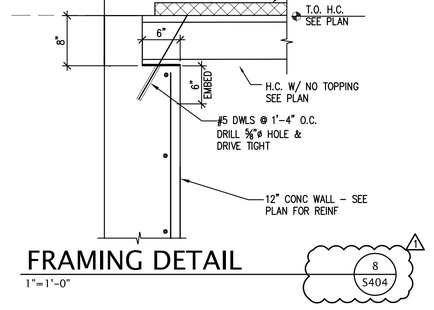
6 S404



DECK DETAIL

1" = 1'-0"

7 S404



FRAMING DETAIL

1"=1'-0"

8 S404

1' 0 1 2

1"=1'-0"

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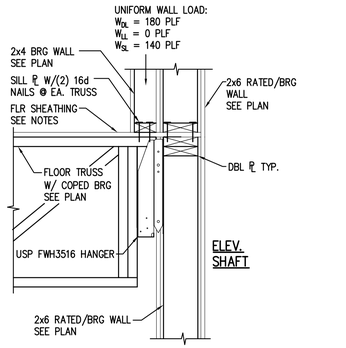
SHEET
S404
FRAMING DETAILS

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Signature:
Date: 03/15/2018 License #: 43486

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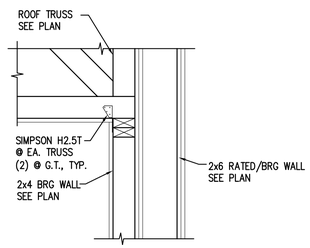
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TRUSS BEARING

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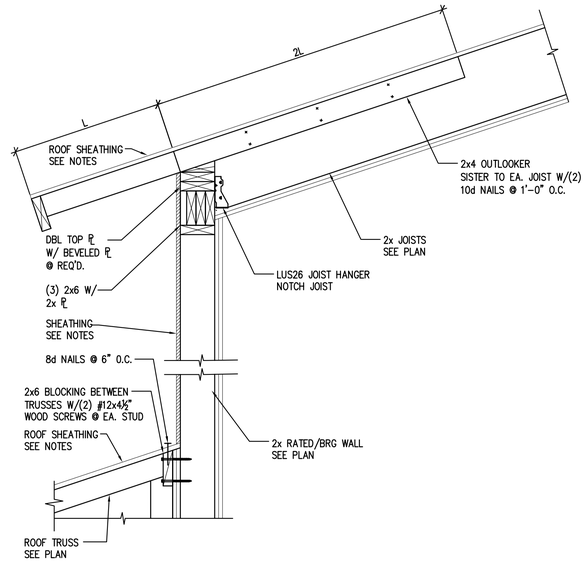
1 S405



ROOF TRUSS BEARING

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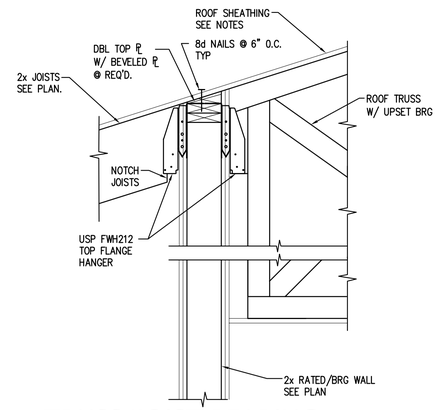
2 S405



JOIST BEARING

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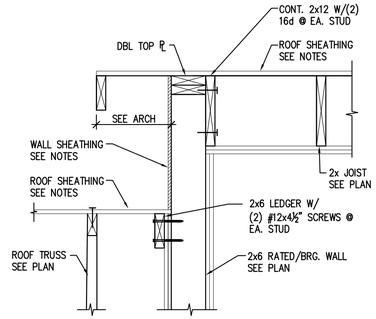
3 S405



TRUSS/JOIST BEARING

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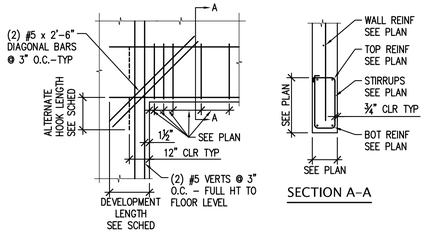
4 S405



FRAMING DETAIL

1" = 1'-0"

5 S405



SECTION A-A

DEVELOPEMENT LENGTH SCHEDULE		
TOP BAR		
SIZE	DEVELOPEMENT LENGTH	ALT HOOK LENGTH
#5	36"	14"
#6	46"	17"
#7	62"	20"
BOTTOM BAR		
SIZE	DEVELOPEMENT LENGTH	ALT HOOK LENGTH
#5	27"	14"
#6	27"	14"
#7	27"	14"

C.I.P. CONCRETE BEAM SECTION

1/2"=1'-0"

6 S405 (1)

1' 0 1 2

1"=1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	3/16/18

BOTTINEAU RIDGE II APARTMENTS

JLG ARCHITECTS
MAPLE GROVE, MN

DATE
12/04/17

PHASE
100% CDs

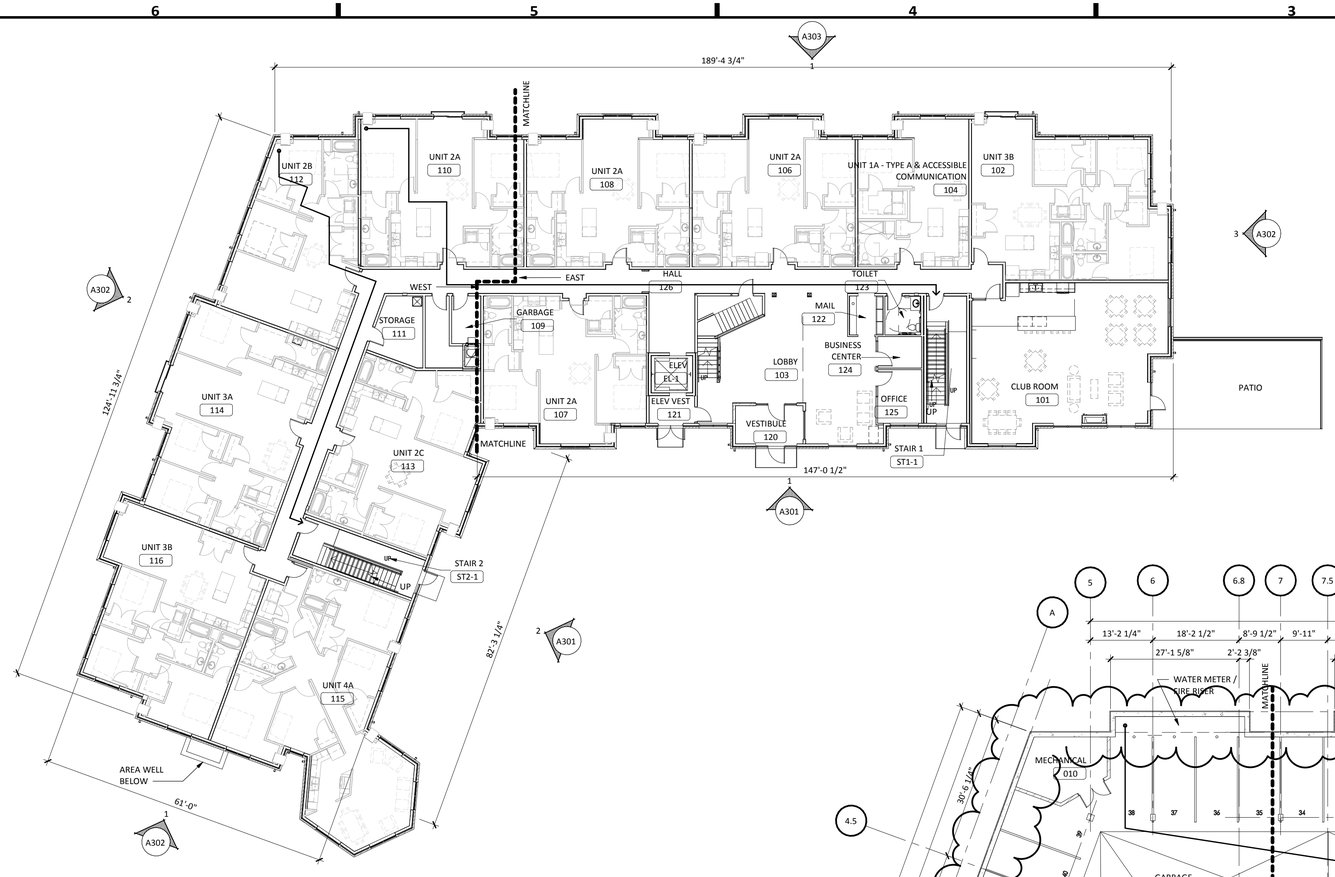
PROJECT
16098

SHEET
S405
FRAMING DETAILS

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

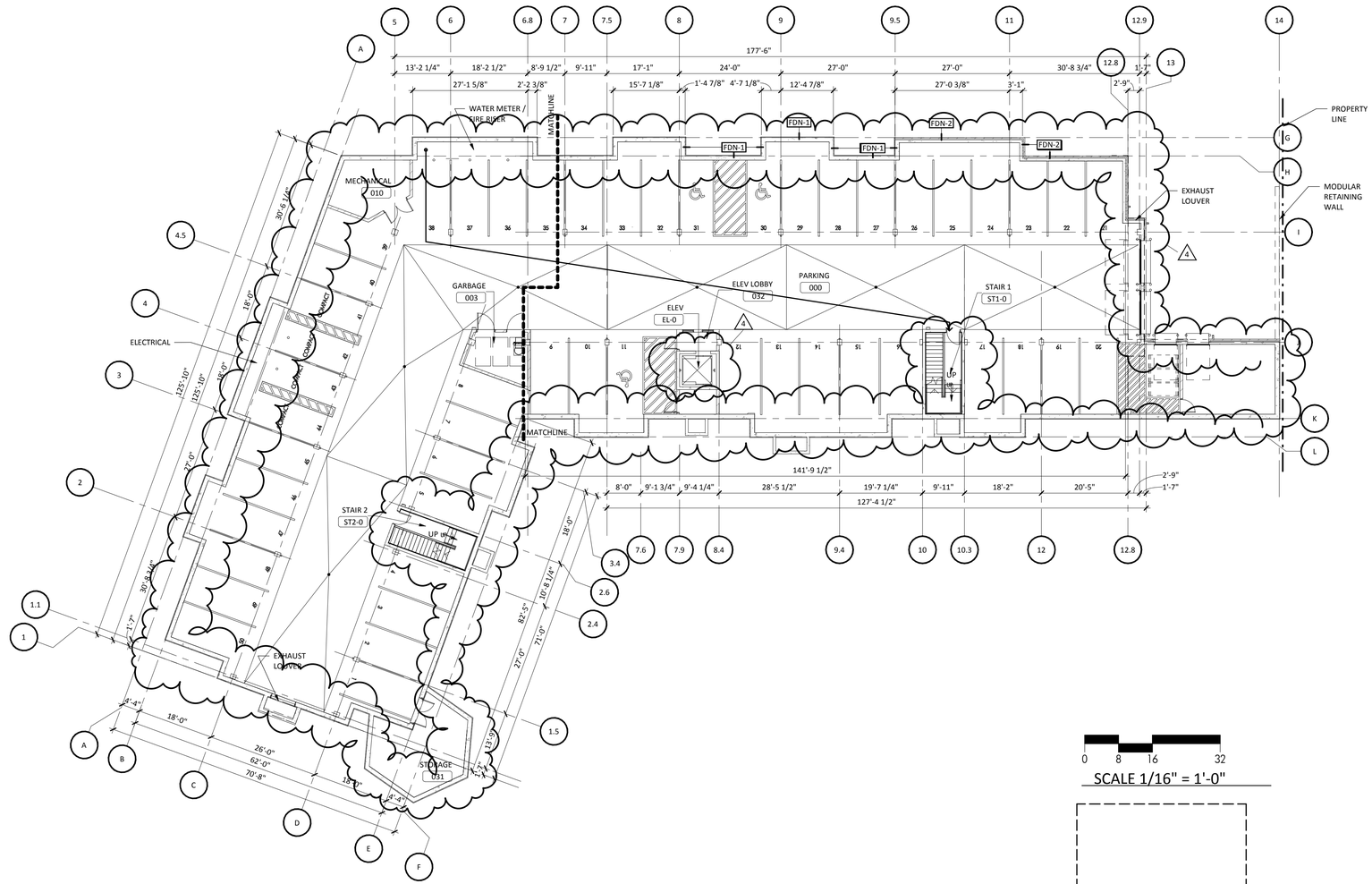
Print Name: Kurt Sandman
Signature:
Date: 03/15/2018 License #: 43486

SANDMAN Structural Engineers
1387 30th Avenue South Moorhead, MN 56560
218.227.0022 www.SandmanSE.com Project 16249



2 A200 FIRST FLOOR PLAN - OVERALL

SCALE: 1/16" = 1'-0"



1 A200 GARAGE FLOOR PLAN - OVERALL

SCALE: 1/16" = 1'-0"

UNIT MATRIX

	SF	1ST FLR	2ND FLR	3RD FLR	4TH FLR	TOTAL
UNIT 1A	734		1	1	3	5
UNIT 1A, TYPE A	734	1				1
UNIT 2A	1033	3	1	2	2	8
UNIT 2A, TYPE A	1033		1			1
UNIT 2A*	1101		1	1	1	3
UNIT 2A**	1085	1	1	1	1	4
UNIT 2B	994	1	1	1	1	4
UNIT 2C	1124	1	1	1	1	4
UNIT 3A	1364	1	1		1	3
UNIT 3A, TYPE A	1364			1		1
UNIT 3B	1271	2	3	3	3	11
UNIT 3C	1474			1		1
UNIT 4A	1633	1	1	1	1	4
TOTAL UNIT COUNT		11	12	13	14	50

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

BOTTINEAU RIDGE II APARTMENTS

JLG ARCHITECTS
MAPLE GROVE, MN

DATE
12/04/2017

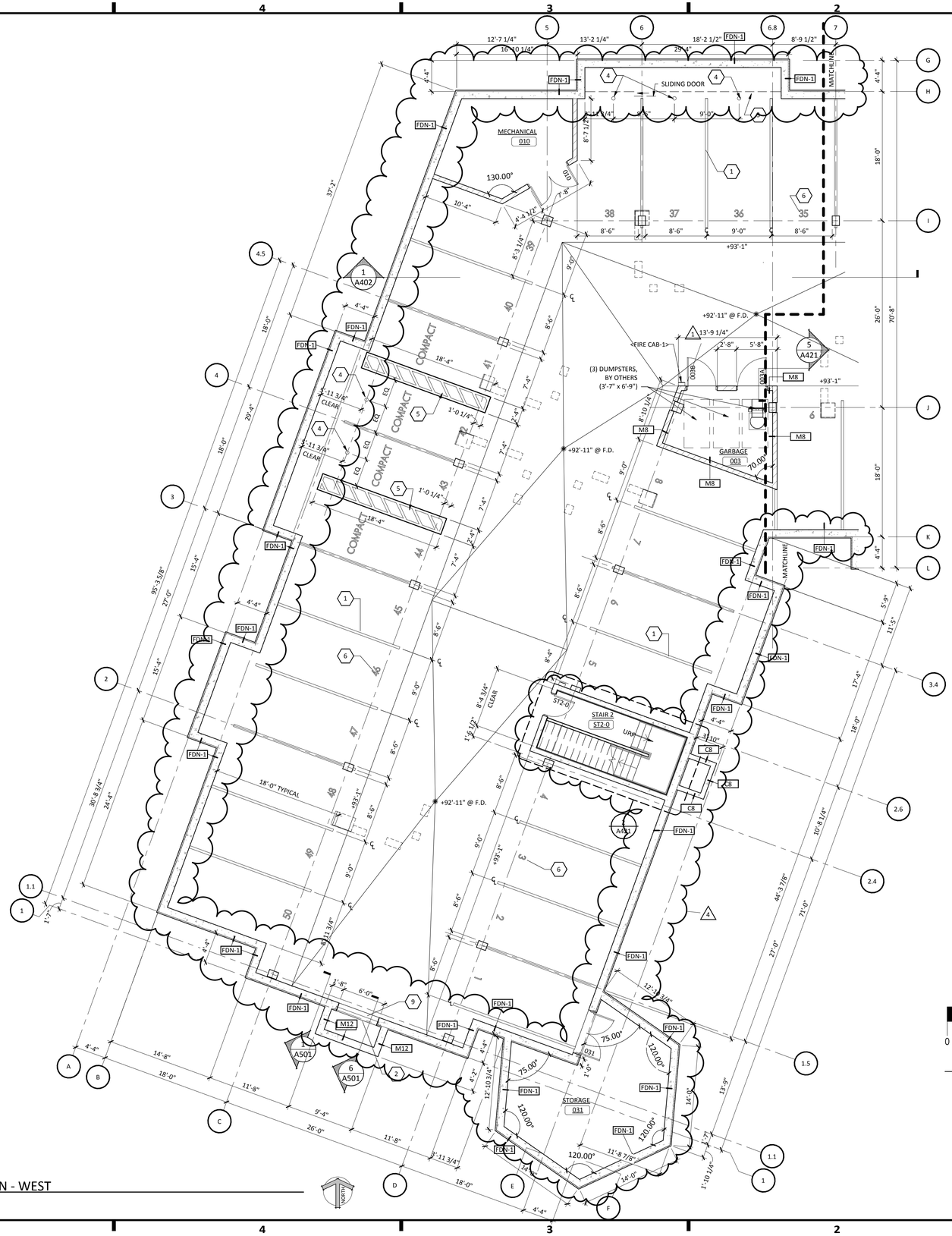
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PROJECT
16098

SHEET
A200
OVERALL GARAGE & FIRST FLOOR PLANS

0 8 16 32
SCALE 1/16" = 1'-0"

3/7/2018 3:48:52 PM



1 A210A
GARAGE FLOOR PLAN - WEST
SCALE: 1/8" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
FIRE CAB-1	10 4400 - FIRE EXTINGUISHER CABINET

PARKING GARAGE KEYNOTES

NO.	NOTE
1	4" PARKING LOT STRIPING
2	AREA WELL
3	CHAIN LINK FENCE WITH 3' WIDE SLIDING GATE
4	STEEL BOLLARD <MET FAB-1>. EXTERIOR BOLLARDS TO HAVE CONCRETE FOUNDATION, SEE CIVIL DETAILS
5	8" HIGH CONCRETE WALKWAY WITH STRIPING, TYP
6	PAINTED STALL NUMBER, TYP
7	PAINTED ACCESSIBLE SYMBOL, TYP
8	LOADING ZONE STRIPING, TYP
9	6'-0" X 8'-0" LOUVER, SEE MECH

FLOOR PLAN GENERAL NOTES

A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
B. FOR TYPICAL HOUSEKEEPING CLOSETS ACCESSORIES REQ'MTS AND MOUNTING LOCATIONS SEE DWG. GXXX
C. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
D. COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON REFLECTED CEILING PLANS - DRAWING SERIES A700
E. TYPICALLY INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT ALL SINKS UNLESS NOTED OTHERWISE.
F. PROVIDE WALL REINFORCEMENT PER DETAIL AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKERBOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS (REFER TO ACCESSORIES AND EQUIPMENT SCHEDULE).
G. FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O. SEE DWG AX-XXX.
H. CORRDINATE DIMENSIONS W/ ASTERISK (IE - *X'-X") W/ EQUIPMENT VENDER.
I. PROVIDE BULLNOSE ON ALL CMU OUTSIDE CORNERS - TYPICAL.
J. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD OR MASONRY UNLESS OTHERWISE NOTED.
K. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
L. INSTALL ACOUSTIC PUTTY ON ALL ELECTRICAL BOXES IN DEMISING WALLS ACCORDING TO MANUFACTURER'S INSTRUCTIONS TO MAINTAIN A MINIMUM STC-50 BETWEEN UNITS.
M. ALL THRU-WALL A/C UNITS TO ALIGN VERTICALLY FROM FIRST TO FOURTH FLOOR.

0 8 16 32

SCALE 1/8" = 1'-0"

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	12/07/2017
4	POST TENDER ADDENDUM #2	03/15/2018

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BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET A210A
GARAGE PLAN - WEST

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FLOOR PLAN GENERAL NOTES

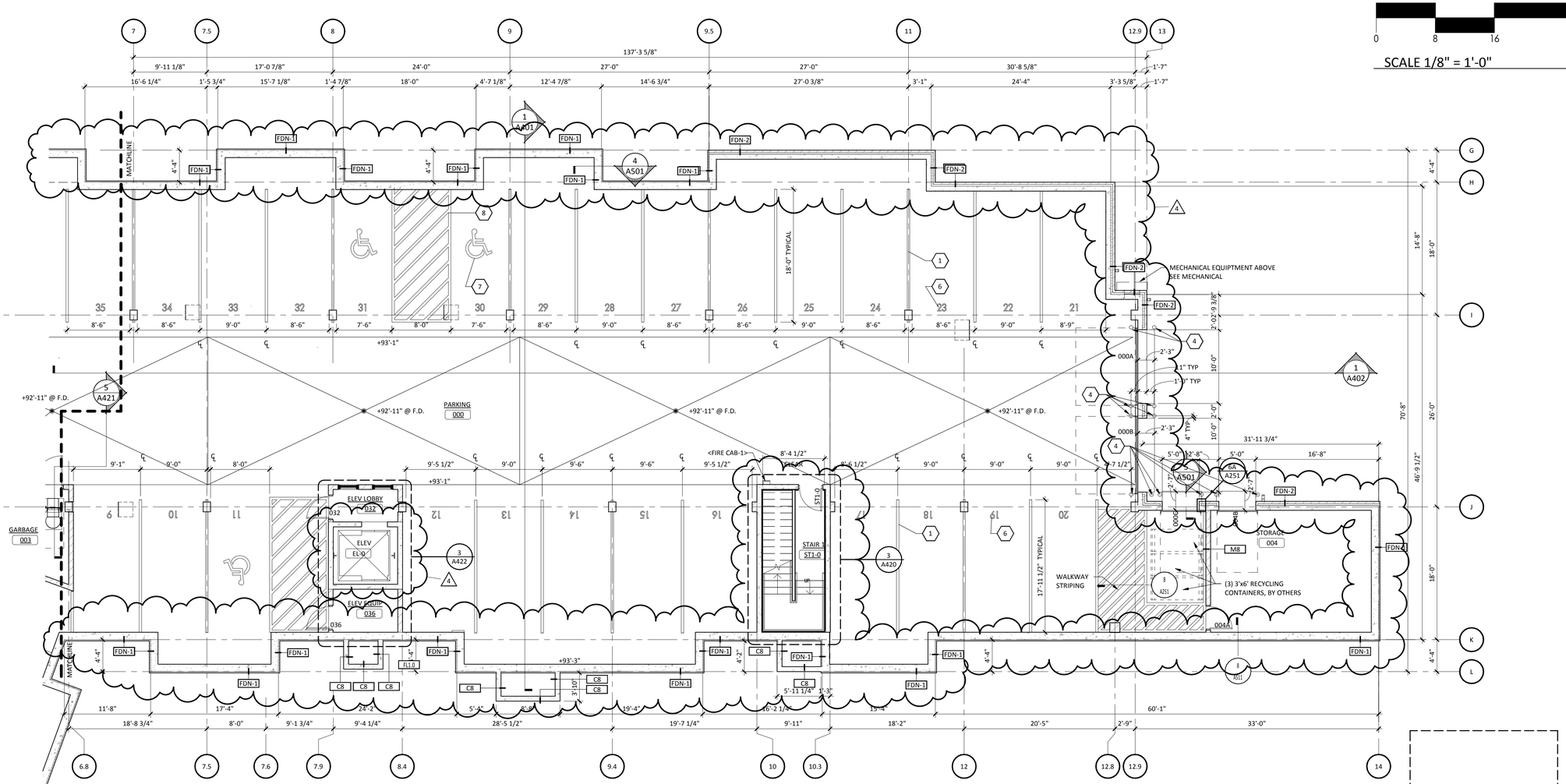
A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
B. FOR TYPICAL HOUSEKEEPING CLOSETS ACCESSORIES REQ'MTS AND MOUNTING LOCATIONS SEE DWG. GXXX
C. ALL PARTITION TYPES ARE "AA" TYPICALLY UNLESS OTHERWISE NOTED.
D. COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON REFLECTED CEILING PLANS - DRAWING SERIES A700
E. TYPICALLY INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT ALL SINKS UNLESS NOTED OTHERWISE.
F. PROVIDE WALL REINFORCEMENT PER DETAIL AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKERBOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS (REFER TO ACCESSORIES AND EQUIPMENT SCHEDULE).
G. FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O. SEE DWG AX-XXX.
H. CORRDINATE DIMENSIONS W/ ASTERISK (IE - *X'-X") W/ EQUIPMENT VENDER.
I. PROVIDE BULLNOSE ON ALL CMU OUTSIDE CORNERS - TYPICAL.
J. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD OR MASONRY UNLESS OTHERWISE NOTED.
K. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
L. INSTALL ACOUSTIC PUTTY ON ALL ELECTRICAL BOXES IN DEMISING WALLS ACCORDING TO MANUFACTURER'S INSTRUCTIONS TO MAINTAIN A MINIMUM STC-50 BETWEEN UNITS.
M. ALL THRU-WALL A/C UNITS TO ALIGN VERTICALLY FROM FIRST TO FOURTH FLOOR.

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
FIRE CAB-1	10 4400 - FIRE EXTINGUISHER CABINET

PARKING GARAGE KEYNOTES

NO.	NOTE
1	4" PARKING LOT STRIPING
2	AREA WELL
3	CHAIN LINK FENCE WITH 3' WIDE SLIDING GATE
4	STEEL BOLLARD <MET FAB-1>. EXTERIOR BOLLARDS TO HAVE CONCRETE FOUNDATION, SEE CIVIL DETAILS
5	8" HIGH CONCRETE WALKWAY WITH STRIPING, TYP
6	PAINTED STALL NUMBER, TYP
7	PAINTED ACCESSIBLE SYMBOL, TYP
8	LOADING ZONE STRIPING, TYP
9	6'-0" X 8'-0" LOUVER, SEE MECH



0 8 16 32

SCALE 1/8" = 1'-0"

1 A210B GARAGE FLOOR PLAN - EAST
SCALE: 1/8" = 1'-0"

3/7/2018 3:49:14 PM

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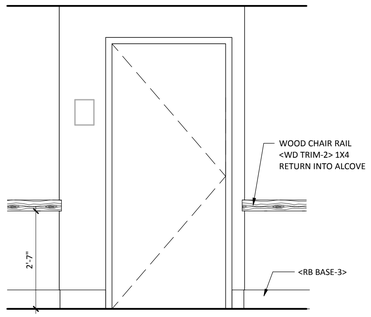
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REVISION SCHEDULE

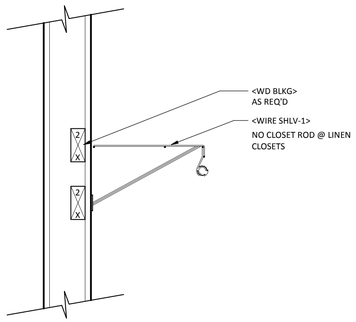
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4	POST TENDER ADDENDUM #2	03/15/20 18

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

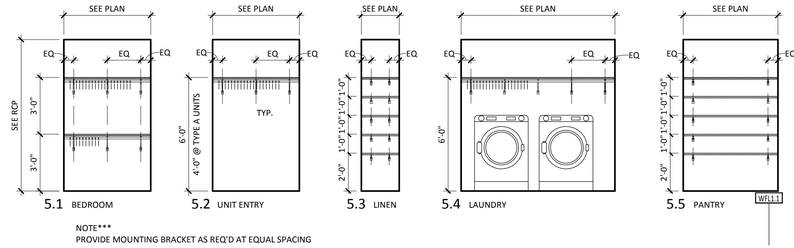
DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET A210B
GARAGE PLAN - EAST



7 A220 TYPICAL UNIT ENTRY ELEVATION
SCALE: 1/2" = 1'-0"

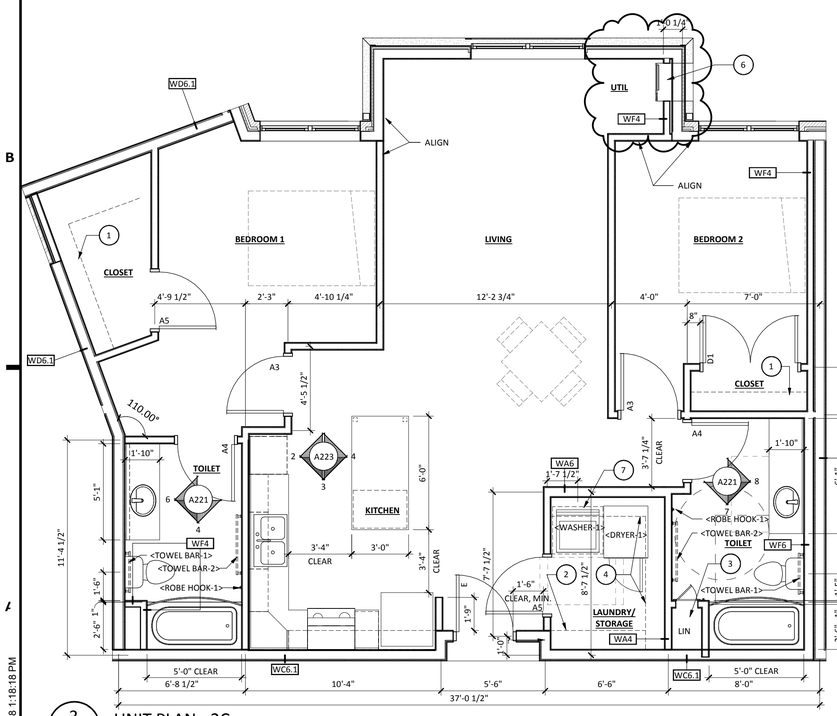


6 A220 WIRE CLOSET SHELF
SCALE: 1 1/2" = 1'-0"

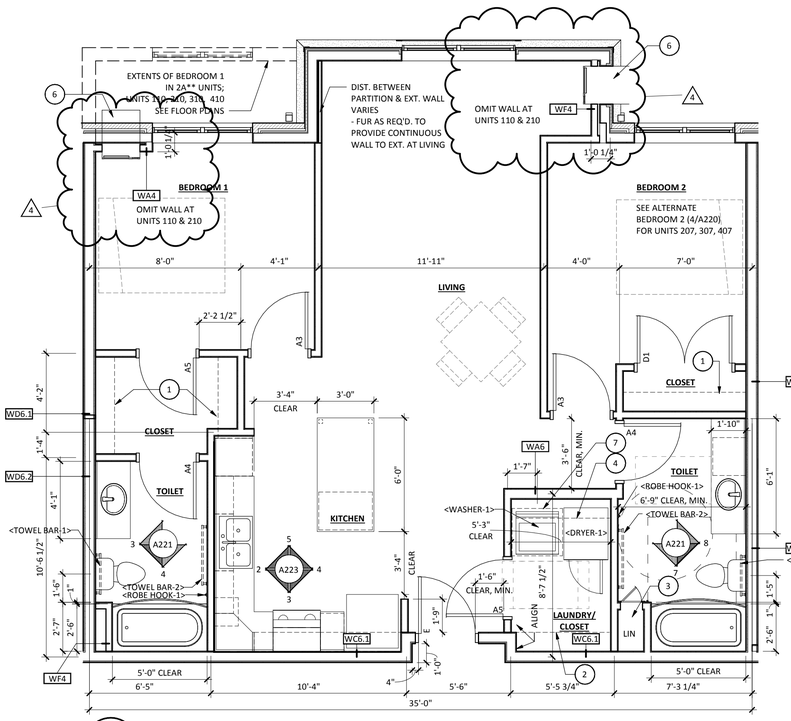


NOTE***
PROVIDE MOUNTING BRACKET AS REQ'D AT EQUAL SPACING

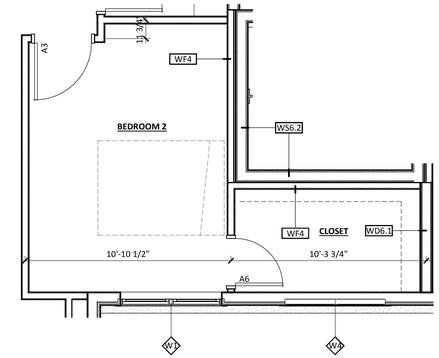
5 A220 TYPICAL CLOSET SHELVING
SCALE: 1/4" = 1'-0"



3 A220 UNIT PLAN - 2C
SCALE: 1/4" = 1'-0"



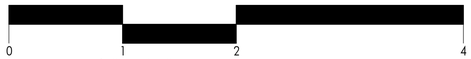
2 A220 UNIT PLAN - 2A
SCALE: 1/4" = 1'-0"



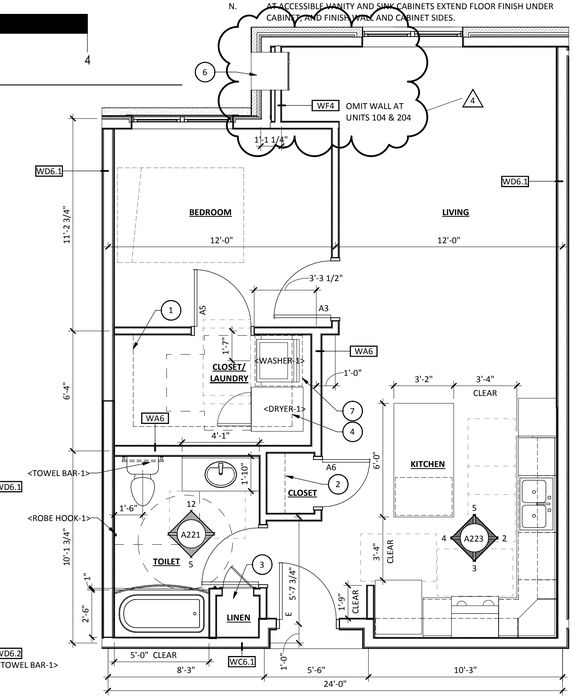
4 A220 UNIT 2A* - ALTERNATE BEDROOM 2
SCALE: 1/4" = 1'-0"
UNITS 207, 306, 408



SCALE 1/4" = 1'-0"



SCALE 1-1/2" = 1'-0"



1 A220 UNIT PLAN - 1A
SCALE: 1/4" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
DRYER-1	11 3100 - CLOTHES DRYER
RB BASE-3	09 6500 - 6" RUBBER COVE BASE
ROBE HOOK-1	10 2800 - SINGLE PRONG ROBE HOOK
TOWEL BAR-1	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
TOWEL BAR-2	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
WASHER-1	11 3100 - WASHING MACHINE
WD BLKG	06 1000 - EXPOSED OR CONCEALED WOOD BLOCKING
WIRE SHLV-1	10 5623 - WIRE STORAGE SHELVING

UNIT PLAN KEYNOTES

KEYNOTE	DESCRIPTION
1	BEDROOM CLOSET SHELVING - SEE ELVATION 5.1/A220
2	ENTRY CLOSET SHELVING - SEE ELEVATION 5.2/A220
3	LINEN CLOSET SHELVING - SEE ELEVATION 5.3/A220
4	LAUNDRY SHELVING - SEE ELEVATION 5.4/A220
6	THRU WALL AIR CONDITIONER, SEE MECH.
7	DISASTER PAN - SEE UNIT PLAN GENERAL NOTE 'J'

UNIT PLAN GENERAL NOTES

A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
B. ***FOR TYPICAL HOUSEKEEPING CLOSETS ACCESSORIES EQ'MTS AND MOUNTING LOCATIONS SEE DWG. GXXX***
C. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
D. ***COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON GXXX***
E. ***PROVIDE WALL REINFORCEMENT AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKERBOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS (REFER TO ACCESSORIES AND EQUIPMENT SCHEDULE).***
F. ***FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O. SEE DWG AX-XXX.***
G. CORRDINATE DIMENSIONS W/ ASTERISK (IE - *X'-X") W/ EQUIPMENT VENDER.
H. ALL DIMENSIONS ARE TO CENTER OF WALL ASSEMBLY AT INTERIOR UNLESS OTHERWISE NOTED. ALL DIMENSIONS AT EXTERIOR ARE TO FACE OF BRICK/FOUNDATION OR FACE OF SHEATHING.
I. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
J. PROVIDE DISASTER PAN WITH FLOOR DRAIN UNDER ALL WASHING MACHINES AT 2ND THRU 4TH FLOORS. PROVIDE FLOOR DRAIN ADJACENT TO ALL WASHING MACHINES AT 1ST FLOOR.
K. PROVIDE FLOOR DRAIN IN DRY OFF AREA OF TYPE-A UNIT ROLL-IN SHOWER.
L. WALL TYPE IS WA4 UNO.
M. PROVIDE CAST UNDERLAYMENT-1 UNDER TUBS AND SHOWERS.
N. AT ACCESSIBLE VANITY AND SINK CABINETS EXTEND FLOOR FINISH UNDER CABINET AND FINISH WALL AND CABINET SIDES.

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NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

BOTTINEAU RIDGE II APARTMENTS

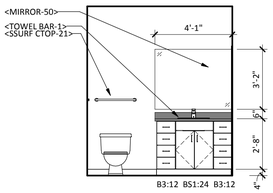
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MAPLE GROVE, MN

DATE
12/04/2017
PHASE
100% CDs
PROJECT
16098
SHEET
A220
UNIT PLANS

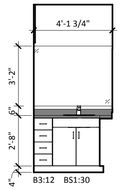
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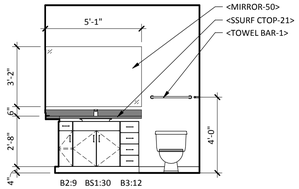
SCALE 1/4" = 1'-0"



12 A221 TOILET ELEV 8
SCALE: 1/4" = 1'-0"



11 A221 TOILET ELEV 10
SCALE: 1/4" = 1'-0"



10 A221 TOILET ELEV 9
SCALE: 1/4" = 1'-0"

UNIT PLAN GENERAL NOTES

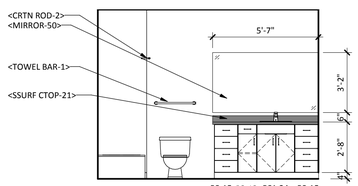
A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
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D. ***COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON GXXX***
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K. PROVIDE FLOOR DRAIN IN DRY OFF AREA OF TYPE-A UNIT ROLL-IN SHOWER.
L. WALL TYPE IS WA4 UNO.
M. PROVIDE CAST UNDERLAYMENT-1 UNDER TUBS AND SHOWERS.
N. AT ACCESSIBLE VANITY AND SINK CABINETS EXTEND FLOOR FINISH UNDER CABINET, AND FINISH WALL AND CABINET SIDES.

SHEET MATERIAL ID LIST

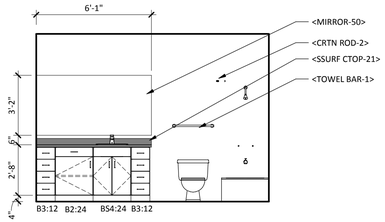
MATERIAL ID	SPEC SECTION & DESCRIPTION
CRTN ROD-2	10 2800 - SHOWER CURTAIN ROD, CURVED
DRYER-1	11 3100 - CLOTHES DRYER
MIRROR-50	10 2800 - FRAMELESS MIRROR
RES CASE-1	12 3530 - RESIDENTIAL CASEWORK
ROBE HOOK-1	10 2800 - SINGLE PRONG ROBE HOOK
SSURF CTOP-21	12 3600 - 1/2" SOLID SURFACE COUNTERTOP
TOWEL BAR-1	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
TOWEL BAR-2	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
WASHER-1	11 3100 - WASHING MACHINE

UNIT PLAN KEYNOTES

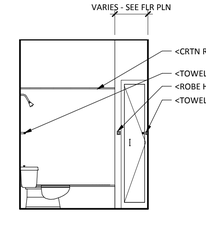
KEYNOTE	DESCRIPTION
1	BEDROOM CLOSET SHELVING - SEE ELEVATION 5.1/A220
2	ENTRY CLOSET SHELVING - SEE ELEVATION 5.2/A220
3	LINEN CLOSET SHELVING - SEE ELEVATION 5.3/A220
4	LAUNDRY SHELVING - SEE ELEVATION 5.4/A220
6	THRU WALL AIR CONDITIONER, SEE MECH.
7	DISASTER PAN - SEE UNIT PLAN GENERAL NOTE 'J'



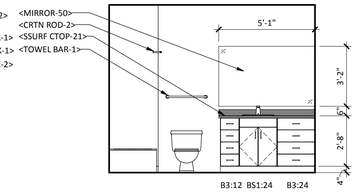
9 A221 TOILET ELEV 7
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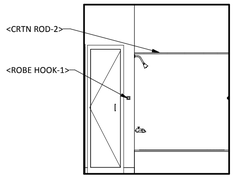
8 A221 TOILET ELEV 6
SCALE: 1/4" = 1'-0"



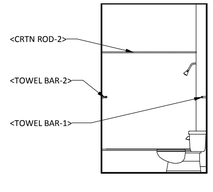
7 A221 TOILET ELEV 5
SCALE: 1/4" = 1'-0"



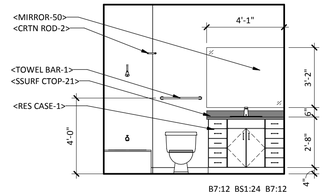
6 A221 TOILET ELEV 4
SCALE: 1/4" = 1'-0"



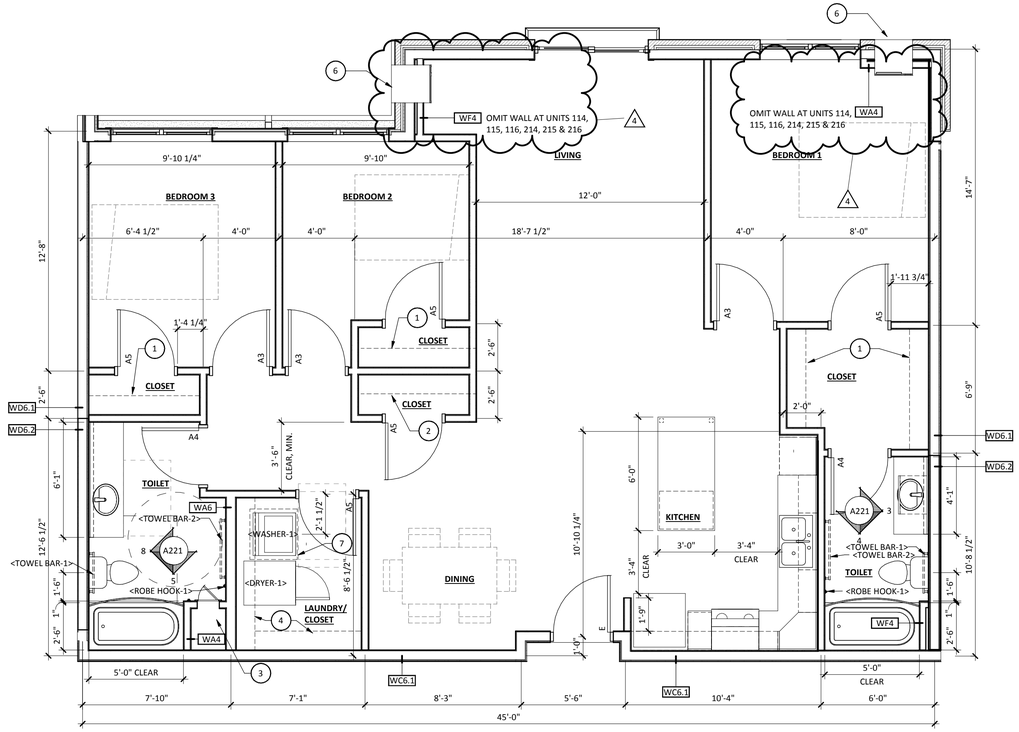
5 A221 TOILET ELEV 3
SCALE: 1/4" = 1'-0"



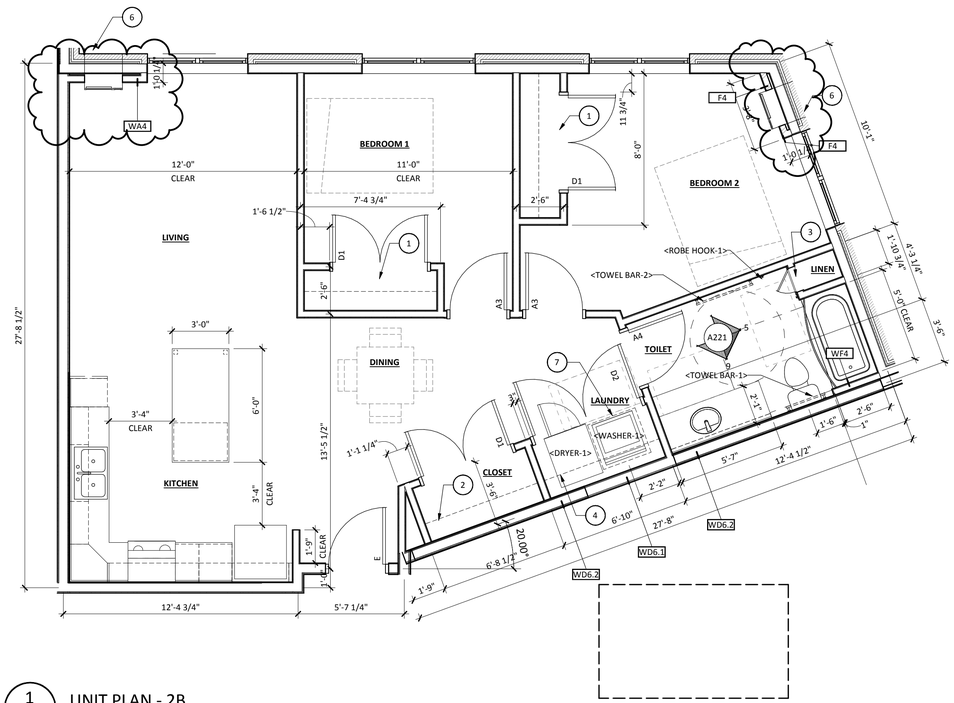
4 A221 TOILET ELEV 2
SCALE: 1/4" = 1'-0"



3 A221 TOILET ELEV 1
SCALE: 1/4" = 1'-0"



2 A221 UNIT PLAN - 3A
SCALE: 1/4" = 1'-0"



1 A221 UNIT PLAN - 2B
SCALE: 1/4" = 1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

BOTTINEAU RIDGE II APARTMENTS

JLG ARCHITECTS
MAPLE GROVE, MN

DATE
12/04/2017

PHASE
100% CDs

PROJECT
16098

SHEET
A221
UNIT PLANS

3/21/2018 1:18:30 PM

UNIT PLAN GENERAL NOTES

A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
B. ***FOR TYPICAL HOUSEKEEPING CLOSETS ACCESSORIES EQ'MTS AND MOUNTING LOCATIONS SEE DWG. GXXX***
C. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
D. ***COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON GXXX***
E. ***PROVIDE WALL REINFORCEMENT AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKERBOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS (REFER TO ACCESSORIES AND EQUIPMENT SCHEDULE).***
F. ***FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O. SEE DWG AX-XXX.***
G. CORRDINATE DIMENSIONS W/ ASTERISK (IE - *X'-X") W/ EQUIPMENT VENDER.
H. ALL DIMENSIONS ARE TO CENTER OF WALL ASSEMBLY AT INTERIOR UNLESS OTHERWISE NOTED. ALL DIMENSIONS AT EXTERIOR ARE TO FACE OF BRICK/FOUNDATION OR FACE OF SHEATHING.
I. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
J. PROVIDE DISASTER PAN WITH FLOOR DRAIN UNDER ALL WASHING MACHINES AT 2ND THRU 4TH FLOORS. PROVIDE FLOOR DRAIN ADJACENT TO ALL WASHING MACHINES AT 1ST FLOOR.
K. PROVIDE FLOOR DRAIN IN DRY OFF AREA OF TYPE-A UNIT ROLL-IN SHOWER.
L. WALL TYPE IS WA4 UNO.
M. PROVIDE CAST UNDERLAYMENT-1 UNDER TUBS AND SHOWERS.
N. AT ACCESSIBLE VANITY AND SINK CABINETS EXTEND FLOOR FINISH UNDER CABINET, AND FINISH WALL AND CABINET SIDES.

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
DISHWASHER-1	11 3100 - DISHWASHER
DRYER-1	11 3100 - CLOTHES DRYER
FRIDGE-2	11 3100 - REFRIGERATOR
RANGE HD-1	11 3100 - RANGE HOOD
RANGE-1	11 3100 - RANGE
ROBE HOOK-1	10 2800 - SINGLE PRONG ROBE HOOK
TOWEL BAR-1	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
TOWEL BAR-2	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
WASHER-1	11 3100 - WASHING MACHINE
WASHER-2	11 3100 - WASHING MACHINE

UNIT PLAN KEYNOTES

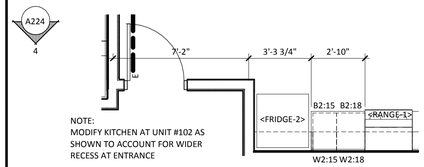
KEYNOTE	DESCRIPTION
1	BEDROOM CLOSET SHELVING - SEE ELVATION 5.1/A220
2	ENTRY CLOSET SHELVING - SEE ELEVATION 5.2/A220
3	LINEN CLOSET SHELVING - SEE ELEVATION 5.3/A220
4	LAUNDRY SHELVING - SEE ELEVATION 5.4/A220
6	THRU WALL AIR CONDITIONER, SEE MECH.
7	DISASTER PAN - SEE UNIT PLAN GENERAL NOTE 'J'

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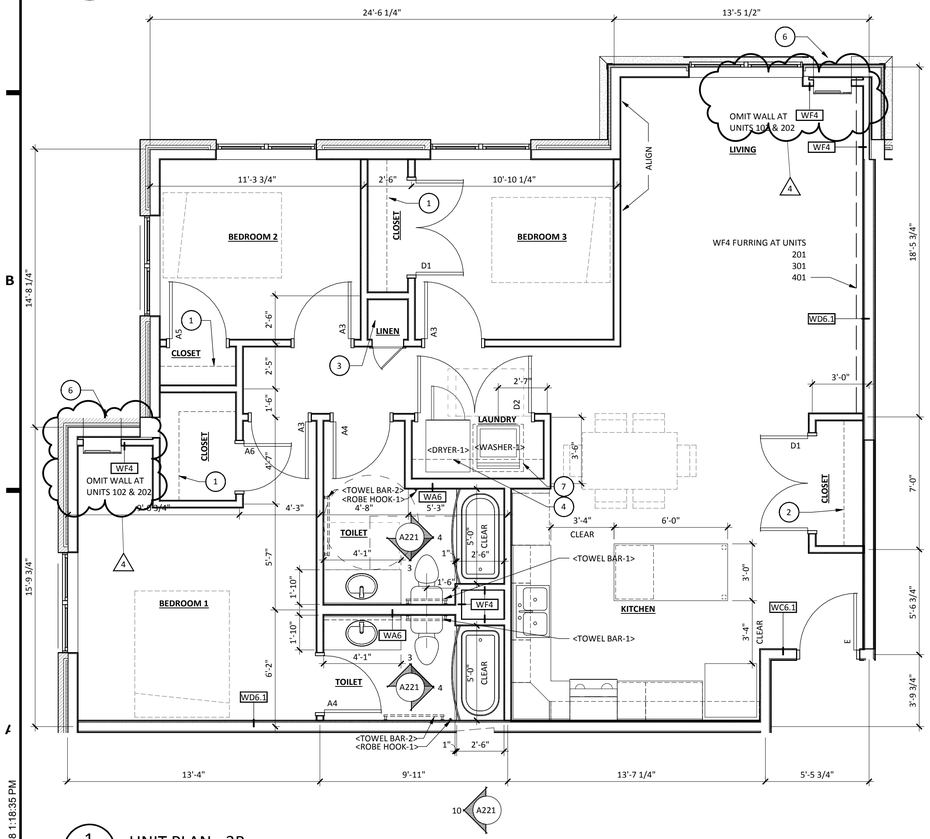
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

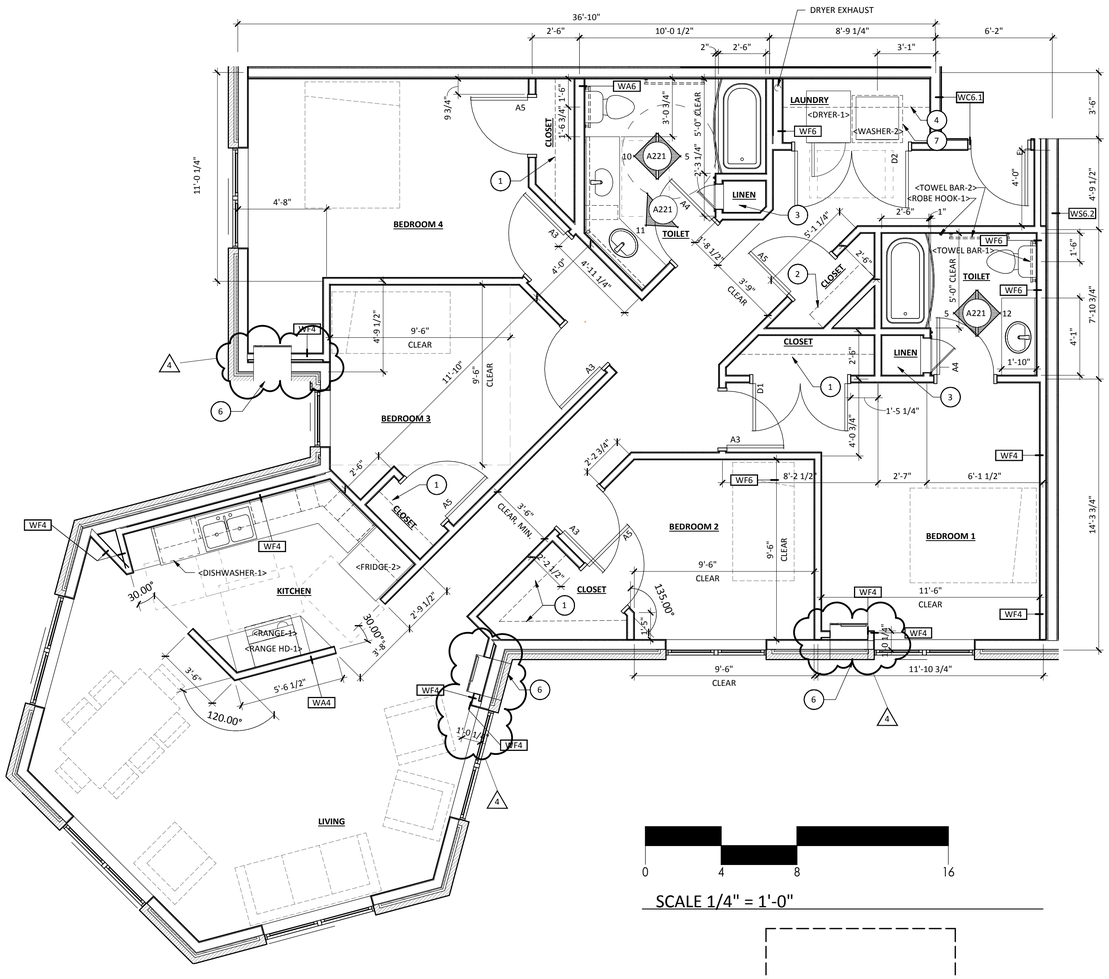


NOTE:
MODIFY KITCHEN AT UNIT #102 AS SHOWN TO ACCOUNT FOR WIDER RECESS AT ENTRANCE

3 / A222 UNIT 3B* - UNIT 102
SCALE: 1/4" = 1'-0"



1 / A222 UNIT PLAN - 3B
SCALE: 1/4" = 1'-0"



2 / A222 UNIT PLAN - 4A
SCALE: 1/4" = 1'-0"

0 4 8 16
SCALE 1/4" = 1'-0"

JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/2017
PHASE
100% CDs
PROJECT
16098
SHEET
A222
UNIT PLANS

3/21/2018 1:18:35 PM

UNIT PLAN GENERAL NOTES

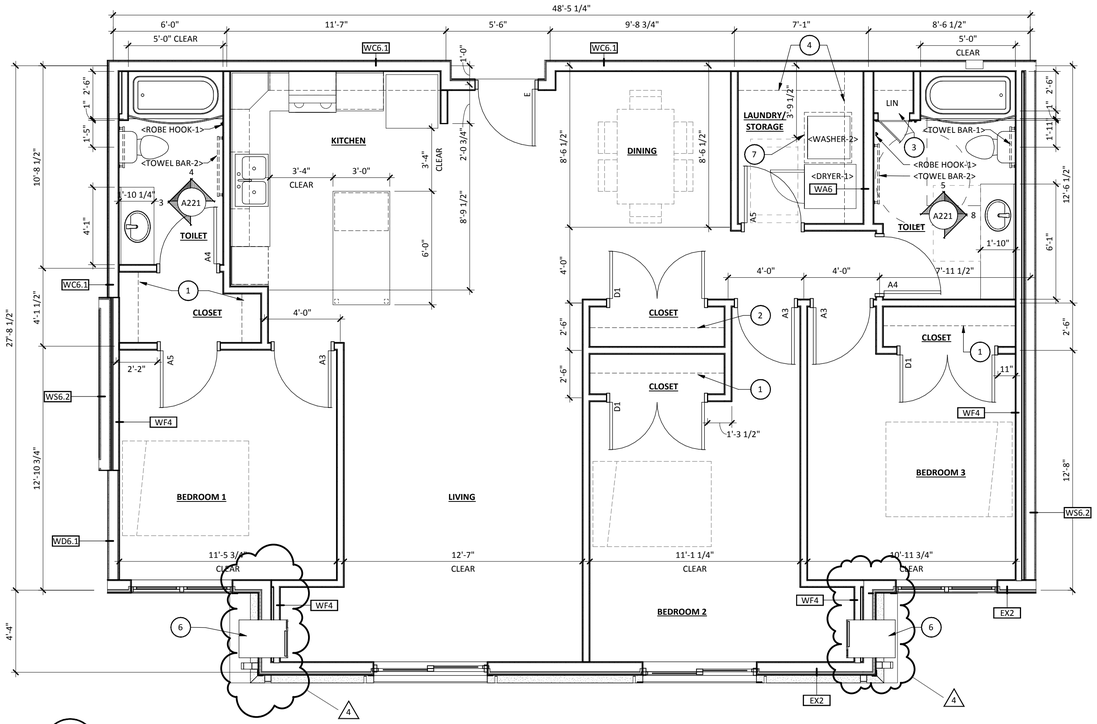
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K. PROVIDE FLOOR DRAIN IN DRY OFF AREA OF TYPE-A UNIT ROLL-IN SHOWER.
L. WALL TYPE IS WA4 UNO.
M. PROVIDE CAST UNDERLAYMENT-1 UNDER TUBS AND SHOWERS.
N. AT ACCESSIBLE VANITY AND SINK CABINETS EXTEND FLOOR FINISH UNDER CABINET, AND FINISH WALL AND CABINET SIDES.

SHEET MATERIAL ID LIST

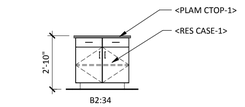
MATERIAL ID	SPEC SECTION & DESCRIPTION
DISHWASHER-1	11 3100 - DISHWASHER
DRYER-1	11 3100 - CLOTHES DRYER
FRIDGE-1	11 3100 - REFRIGERATOR
MET FAB-21	05 5000 - PRE-FINISHED METAL PANEL
PLAM CTOP-1	12 3600 - PLASTIC LAMINATE COUNTERTOP
RANGE HD-1	11 3100 - RANGE HOOD
RANGE-1	11 3100 - RANGE
RES CASE-1	12 3530 - RESIDENTIAL CASEWORK
ROBE HOOK-1	10 2800 - SINGLE PRONG ROBE HOOK
TOWEL BAR-1	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
TOWEL BAR-2	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
WASHER-2	11 3100 - WASHING MACHINE

UNIT PLAN KEYNOTES

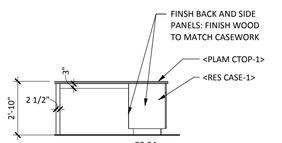
KEYNOTE	DESCRIPTION
1	BEDROOM CLOSET SHELVING - SEE ELVATION 5.1/A220
2	ENTRY CLOSET SHELVING - SEE ELEVATION 5.2/A220
3	LINEN CLOSET SHELVING - SEE ELEVATION 5.3/A220
4	LAUNDRY SHELVING - SEE ELEVATION 5.4/A220
6	THRU WALL AIR CONDITIONER, SEE MECH.
7	DISASTER PAN - SEE UNIT PLAN GENERAL NOTE 'J'



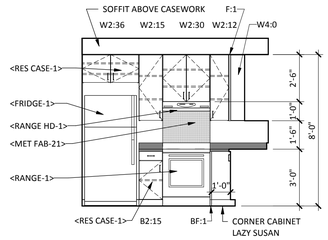
1 A223 UNIT PLAN - 3C
SCALE: 1/4" = 1'-0"



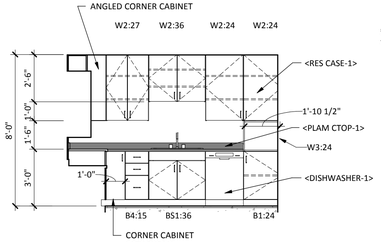
5 A223 ISLAND ELEV. 2
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4 A223 ISLAND ELEV. 1
SCALE: 1/4" = 1'-0"



3 A223 KITCHEN ELEV. 1
SCALE: 1/4" = 1'-0"



2 A223 KITCHEN ELEV. 2
SCALE: 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

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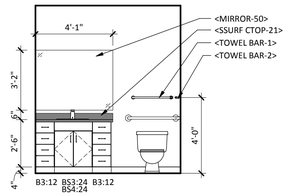
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

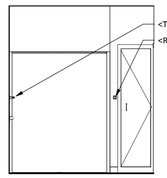
JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET **A223**
UNIT PLANS

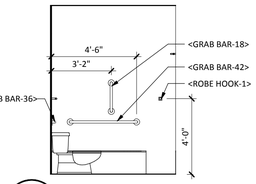
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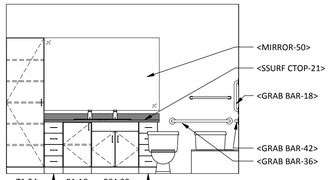
16 A224 TOILET ELEV 9-A
SCALE: 1/4" = 1'-0"



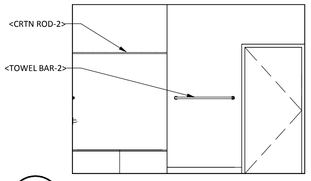
15 A224 TOILET ELEV 8-A
SCALE: 1/4" = 1'-0"



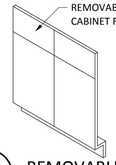
14 A224 TOILET ELEV 6-A
SCALE: 1/4" = 1'-0"



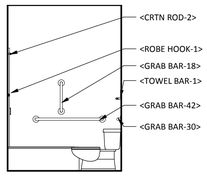
13 A224 TOILET ELEV 7 - A
SCALE: 1/4" = 1'-0"

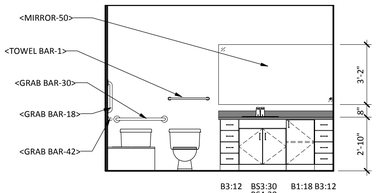


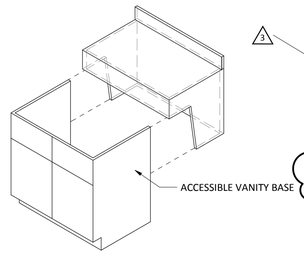
12 A224 TOILET ELEV 8 - A
SCALE: 1/4" = 1'-0"



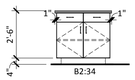
17 A224 REMOVABLE BASE CABINET
SCALE: 1/2" = 1'-0"



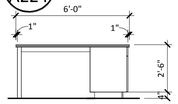




11 A224 TOILET ELEV 2-A
SCALE: 1/4" = 1'-0"



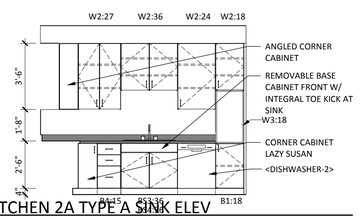
10 A224 TOILET ELEV 1-A
SCALE: 1/4" = 1'-0"



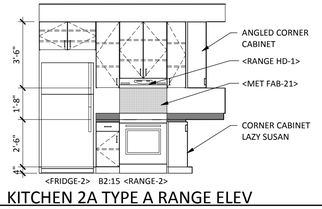
9 A224 TYPE A ISLAND ELEV. 2
SCALE: 1/4" = 1'-0"

8 A224 TYPE-A ISLAND ELEV.
SCALE: 1/4" = 1'-0"

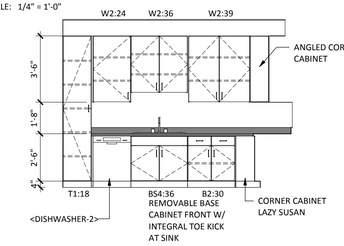
18 A224 ACCESSIBLE VANITY BASE
SCALE: 1/2" = 1'-0"



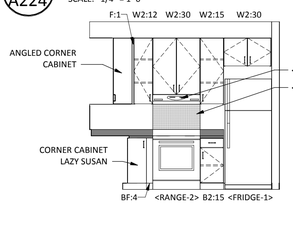
7 A224 KITCHEN 2A TYPE A SINK ELEV
SCALE: 1/4" = 1'-0"



6 A224 KITCHEN 2A TYPE A RANGE ELEV
SCALE: 1/4" = 1'-0"



5 A224 KITCHEN 1A TYPE A SINK ELEVATION
SCALE: 1/4" = 1'-0"



4 A224 KITCHEN 1A TYPE A RANGE ELEVATION
SCALE: 1/4" = 1'-0"

SHEET MATERIAL ID LIST

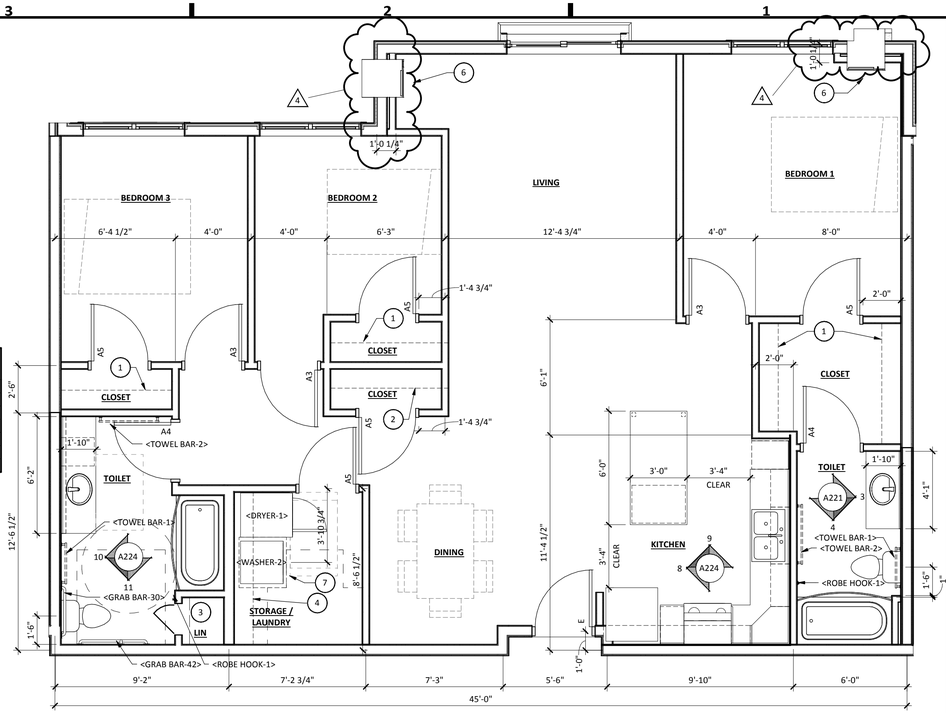
MATERIAL ID	SPEC SECTION & DESCRIPTION
CRTN ROD-2	10 2800 - SHOWER CURTAIN ROD, CURVED
DISHWASHER-2	
DRYER-1	11 3100 - CLOTHES DRYER
FRIDGE-1	11 3100 - REFRIGERATOR
FRIDGE-2	11 3100 - REFRIGERATOR
GRAB BAR-18	10 2800 - STAINLESS STEEL GRAB BAR, 18"
GRAB BAR-30	10 2800 - STAINLESS STEEL GRAB BAR, 30"
GRAB BAR-36	10 2800 - STAINLESS STEEL GRAB BAR, 36"
GRAB BAR-42	10 2800 - STAINLESS STEEL GRAB BAR, 42"
MET FAB-21	05 5000 - PRE-FINISHED METAL PANEL
MIRROR-50	10 2800 - FRAMELESS MIRROR
RANGE HD-1	11 3100 - RANGE HOOD
RANGE-2	11 3100 - RANGE
ROBE HOOK-1	10 2800 - SINGLE PRONG ROBE HOOK
SSURF CTOP-21	12 3600 - 1/2" SOLID SURFACE COUNTERTOP
TOWEL BAR-1	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
TOWEL BAR-2	10 2800 - TOWEL BAR, 1" DIAMETER, STAINLESS STEEL
WASHER-2	11 3100 - WASHING MACHINE

UNIT PLAN KEYNOTES

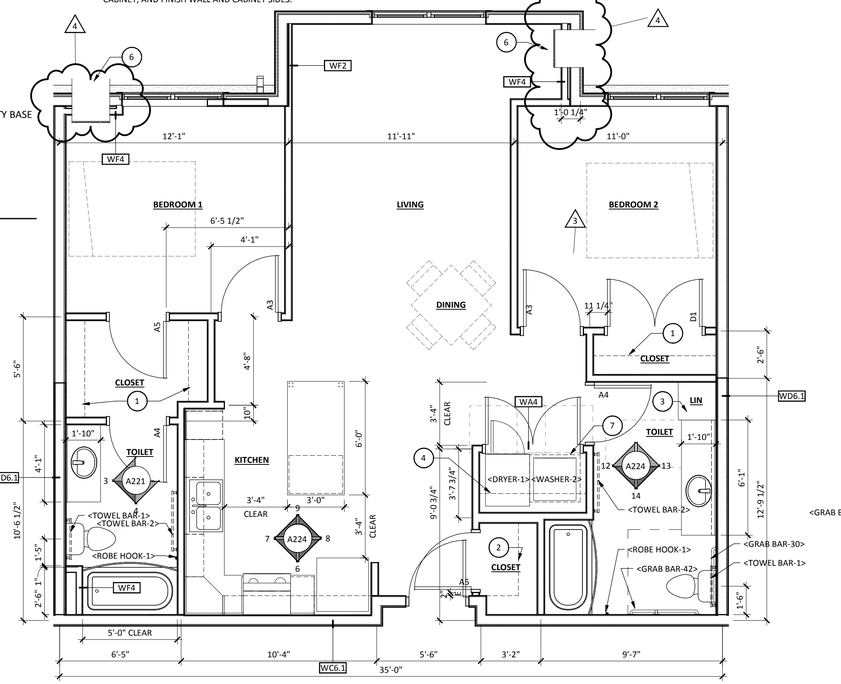
KEYNOTE	DESCRIPTION
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2	ENTRY CLOSET SHELVING - SEE ELEVATION 5.2/A220
3	LINEN CLOSET SHELVING - SEE ELEVATION 5.3/A220
4	LAUNDRY SHELVING - SEE ELEVATION 5.4/A220
6	THRU WALL AIR CONDITIONER, SEE MECH.
7	DISASTER PAN - SEE UNIT PLAN GENERAL NOTE 'J'

UNIT PLAN GENERAL NOTES

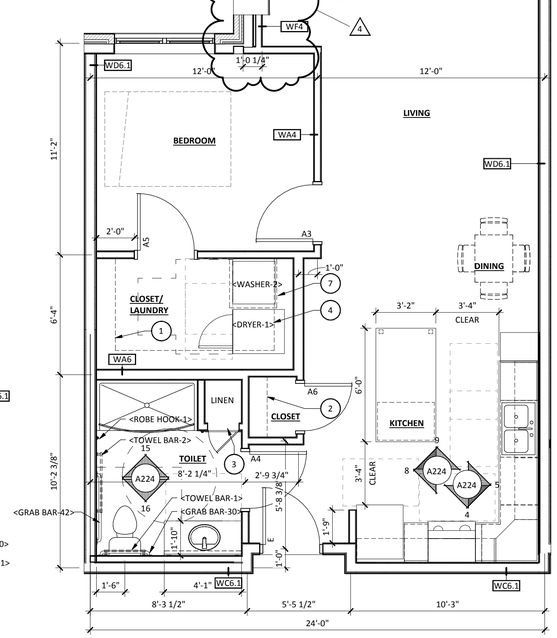
A. FOR TYPICAL BARRIER FREE TOILET ROOM TYPES AND ACCESSORIES REQ'MTS AND LOCATIONS SEE DWG G120
B. ***FOR TYPICAL HOUSEKEEPING CLOSETS ACCESSORIES EQ'MTS AND MOUNTING LOCATIONS SEE DWG. GXXX***
C. ALL PARTITION TYPES ARE "A4" TYPICALLY UNLESS OTHERWISE NOTED.
D. ***COORDINATE PARTITION FIRE RATED REQUIRMENTS AS INDICATED ON GXXX***
E. ***PROVIDE WALL REINFORCEMENT AT WALL-MOUNTED SHELVES AND STORAGE UNITS, MARKERBOARDS, BULLETIN BOARDS, TACK BOARDS, TELEVISIONS AND OTHER CONTRACTOR OR OWNER FURNISHED WALL-MOUNTED ITEMS (REFER TO ACCESSORIES AND EQUIPMENT SCHEDULE).***
F. ***FOR ALL CARPET TYPE CHANGES BETWEEN ROOMS, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR PANEL TYPICALLY - U.N.O. SEE DWG AX-XXX.***
G. CORRDINATE DIMENSIONS W/ ASTERISK (IE - "X'-X") W/ EQUIPMENT VENDER.
H. ALL DIMENSIONS ARE TO CENTER OF WALL ASSEMBLY AT INTERIOR UNLESS OTHERWISE NOTED. ALL DIMENSIONS AT EXTERIOR ARE TO FACE OF BRICK/FOUNDATION OR FACE OF SHEATHING.
I. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.
J. PROVIDE DISASTER PAN WITH FLOOR DRAIN UNDER ALL WASHING MACHINES AT 2ND THRU 4TH FLOORS. PROVIDE FLOOR DRAIN ADJACENT TO ALL WASHING MACHINES AT 1ST FLOOR.
K. PROVIDE FLOOR DRAIN IN DRY OFF AREA OF TYPE-A UNIT ROLL-IN SHOWER.
L. WALL TYPE IS WA4 UNO.
M. PROVIDE CAST UNDERLAYMENT-1 UNDER TUBS AND SHOWERS.
N. AT ACCESSIBLE VANITY AND SINK CABINETS EXTEND FLOOR FINISH UNDER CABINET, AND FINISH WALL AND CABINET SIDES.



3 A224 UNIT 3A - TYPE-A
SCALE: 1/4" = 1'-0"



2 A224 UNIT 2A - TYPE-A
SCALE: 1/4" = 1'-0"



1 A224 UNIT 1A - TYPE-A
SCALE: 1/4" = 1'-0"

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
3	POST TENDER ADDENDUM #3	02/28/20 18
4	POST TENDER ADDENDUM #2	03/15/20 18

BOTTINEAU RIDGE II APARTMENTS

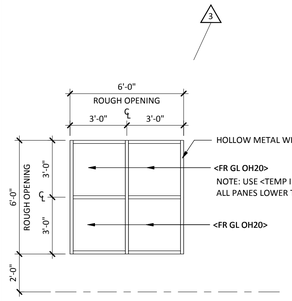
JLG ARCHITECTS
MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET A224
TYPE-A UNIT PLANS

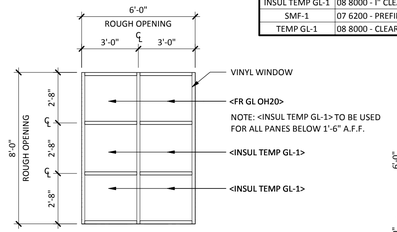
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SHEET MATERIAL ID LIST

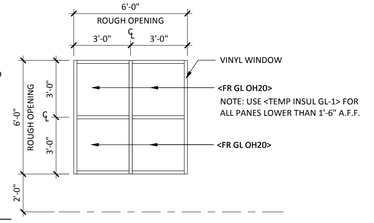
MATERIAL ID	SPEC SECTION & DESCRIPTION
ALUM STOR-1	08 4313 - ALUMINUM FRAMED STOREFRONT
FR GL OH20	08 8000 - FIRE PROTECTION RATED GLAZING OH-20
INSUL TEMP GL-1	08 8000 - I" CLEAR INSULATED TEMPERED GLASS
SMF-1	07 6200 - PREFINISHED GALVANIZED STEEL FLASHING
TEMP GL-1	08 8000 - CLEAR TEMPERED GLASS, 1/4" THICK



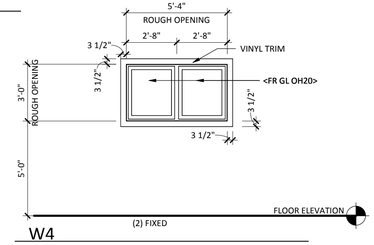
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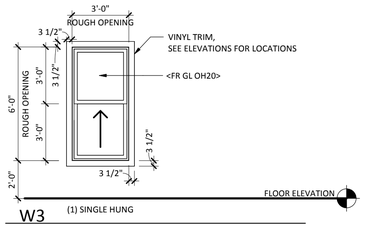
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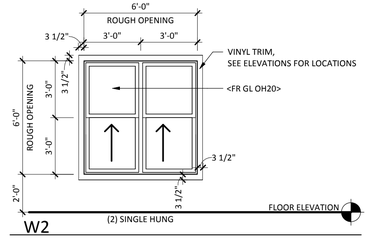
W5



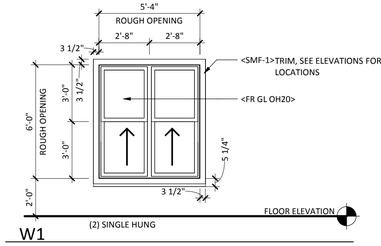
W4



W3



W2



W1

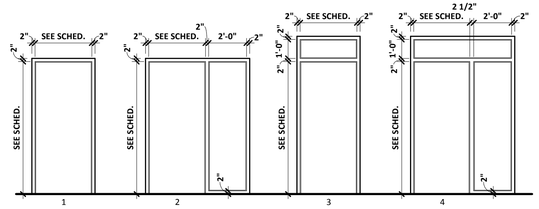
WINDOW TYPES

BUILDING DOOR SCHEDULE

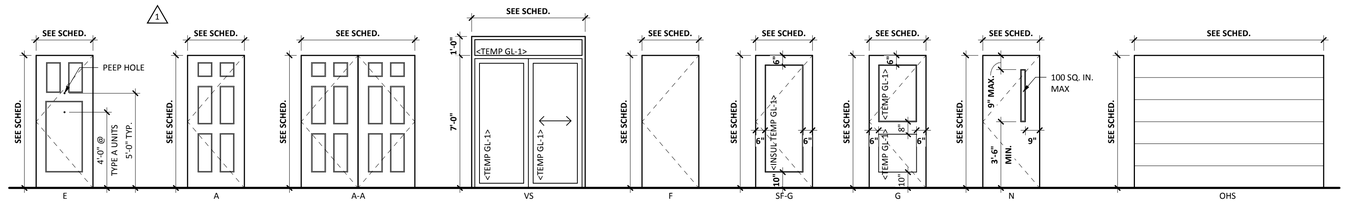
NO.	ROOM NAME	SIZE WIDTH	SIZE HEIGHT	SIZE THK	DOORS MAT'L	DOORS TYPE	DOORS FINISH	DOORS GLZ	FRAME MAT'L	FRAME TYPE	FRAME FINISH	FRAME GLZ	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	RATING	HW SET	NOTES
GARAGE FLOOR																		
000A	PARKING	10' - 0"	8' - 0"	2"	STL	OHS	PREFIN	--	STL	SL	PREFIN	--				--		
000B	PARKING	10' - 0"	8' - 0"	2"	STL	OHS	PREFIN	--	STL	SL	PREFIN	--				--		
000C	RECYCLING	5' - 0"	8' - 0"	2"	STL	OHS	PREFIN	--	STL	SL	PREFIN	--				--		
003A	GARBAGE	4' - 0"	7' - 0"	1 3/4"	HM	F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	90MIN	11.0	
003B	GARBAGE	4' - 0"	7' - 0"	1 3/4"	HM	F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	90MIN	11.0	
004A	STORAGE	3' - 0"	7' - 0"	1 3/4"	HM	F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	--	--	
004B	STORAGE	5' - 0"	8' - 0"	2"	STL	OHS	PREFIN	--	STL	SL	PREFIN	--				--		
010	MECHANICAL	6' - 0"	7' - 0"	1 3/4"	HM	F-F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	--	14.0	
031	STORAGE	6' - 0"	7' - 0"	1 3/4"	HM	F-F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	--	4.2	
032	ELEV LOBBY	3' - 0"	7' - 0"	1 3/4"	HM	N	<PT- >	--	HM	1A	<PT- >	--	--	--	--	--	314.0	
036	ELEV EQUIP	3' - 0"	7' - 0"	1 3/4"	HM	F	<PT- >	--	HM	1A	<PT- >	--	--	--	--	90MIN	14.1	
ST1-0	STAIR 1	3' - 0"	7' - 0"	1 3/4"	HM	N	<PT- >	<FL GL-DH90>	HM	1A	<PT- >	--	--	--	--	90MIN	31.0	
ST2-0	STAIR 2	3' - 0"	7' - 0"	1 3/4"	HM	N	<PT- >	<FL GL-DH90>	HM	1A	<PT- >	--	--	--	--	90MIN	31.0	
FIRST FL T.O. CAST UNDERLAYMENT																		
101A	ELEV VEST	5' - 0"	7' - 0"	1 3/4"	AL	FG-G	ANOD	<INSUL TEMP GL-1>	AL	SF05	ANOD	<INSUL TEMP GL-1>	--	--	--	--	324.0	
102A	VESTIBULE	3' - 6"	7' - 0"	1 3/4"	AL	SF-G	ANOD	<INSUL TEMP GL-1>	AL	SF04	ANOD	<INSUL TEMP GL-1>					351.0	
102B	LOBBY	3' - 6"	7' - 0"	1 3/4"	AL	SF-G	ANOD	TEMP GL-1	AL	SF04	ANOD	TEMP GL-1					254.0	
103	ELEV VEST	3' - 0"	7' - 0"	1 3/4"	WD	G	PREFIN	TEMP GL-1	HM	1	<PT- >	--	--	--	--	--	11.0	
106	TOILET	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	12.0	
107A	CLUB ROOM	3' - 0"	7' - 0"	1 3/4"	WD	G	PREFIN	<FL GL-DH45	HM	2	<PT- >	--	--	--	--	20MIN	13.1	
107B	CLUB ROOM	3' - 0"	7' - 0"	1 3/4"	AL	G	ANOD	<INSUL TEMP GL-1>	AL	SF06	ANOD	<INSUL TEMP GL-1>					334.0	
109	GARBAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	45MIN	11.1	
111	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
124	BUSINESS CENTER	3' - 0"	7' - 0"	1 3/4"	WD	G	PREFIN	<FL GL-DH45	HM	2	<PT- >	--	--	--	--	20MIN	13.1	
125	OFFICE	3' - 0"	7' - 0"	1 3/4"	WD	G	PREFIN	<FL GL-DH45	HM	2	<PT- >	--	--	--	--	20MIN	13.2	
127	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	11.1	
129	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
ST1-1A	STAIR 1	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
ST1-1B	STAIR 1	3' - 0"	7' - 0"	1 3/4"	AL	SF-G	ANOD	TEMP GL-1	AL	SF03	ANOD	<INSUL TEMP GL-1>					334.0	
ST2-1A	STAIR 2	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
ST2-1B	STAIR 2	3' - 0"	7' - 0"	1 3/4"	AL	SF-G	ANOD	TEMP GL-1	AL	SF03	ANOD	<INSUL TEMP GL-1>					334.0	
SECOND FLOOR																		
202	FITNESS	3' - 0"	7' - 0"	1 3/4"	WD	G	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	11.1	
203	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
209	GARBAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	45MIN	11.1	
211	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
228	MECH	6' - 0"	7' - 0"	1 3/4"	WD	F-F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
ST1-2	STAIR 1	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
ST2-2	STAIR 2	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
THIRD FLOOR																		
309	GARBAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	45MIN	11.1	
311	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
327	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	11.1	
ST1-3	STAIR 1	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
ST2-3	STAIR 2	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
FOURTH FLOOR																		
409	GARBAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	45MIN	11.1	
411	MECH	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
427	STORAGE	3' - 0"	7' - 0"	1 3/4"	WD	F	PREFIN	--	HM	1	<PT- >	--	--	--	--	20MIN	14.1	
ST1-4	STAIR 1	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	
ST2-4	STAIR 2	3' - 0"	7' - 0"	1 3/4"	WD	N	PREFIN	<FL GL-DH90>	HM	1	<PT- >	--	--	--	--	90MIN	34.0	

UNIT DOOR SCHEDULE

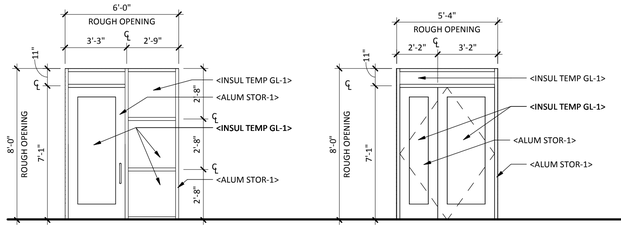
NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THK	DOORS MAT'L	DOORS TYPE	DOORS FINISH	DOORS GLZ	FRAME MAT'L	FRAME TYPE	FRAME FINISH	FRAME GLZ	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	RATING	HW SET	NOTES
A3	3' - 0"	6' - 8"	1 3/4"	WD	A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	92.0	PREHUNG
A4	3' - 0"	6' - 8"	1 3/4"	WD	A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	92.0	PREHUNG
A5	3' - 0"	6' - 8"	1 3/4"	WD	A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	91.0	PREHUNG
A6	2' - 6"	6' - 8"	1 3/4"	WD	A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	91.0	PREHUNG
D1	5' - 0"	6' - 8"	1 3/4"	WD	A-A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	91.1	PREHUNG
D2	6' - 0"	6' - 8"	1 3/4"	WD	A-A	PREFIN	--	WD	1	PREFIN	--	--	--	--	--	91.1	PREHUNG
E	3' - 0"	7' - 0"	1 3/4"	WD	E	PREFIN	--	HM	1	<PT- >	--	--	2/A251	--	20MIN	93.0	
VS	6' - 0"	8' - 0"	2"	VINYL	VS	PREFIN	<INSUL TEMP GL-1>	VINYL	1	PREFIN	<INSUL TEMP GL-1>				--	97	

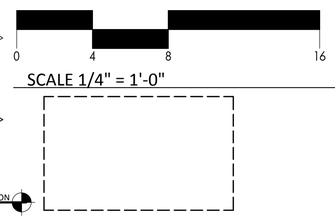


FRAME TYPES



DOOR TYPES





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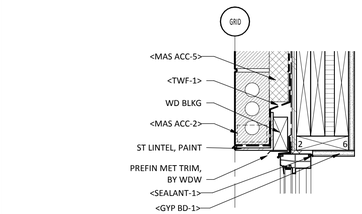
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
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3	POST TENDER ADDENDUM #3	02/28/2018

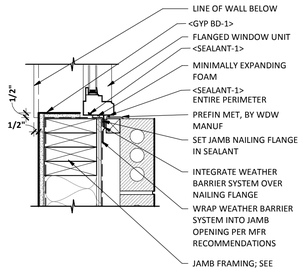
JLG ARCHITECTS
BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/2017
PHASE
100% CDs
PROJECT
16098
SHEET
A250
DOOR SCHEDULE & GLAZING ELEVATIONS

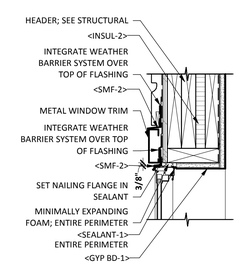
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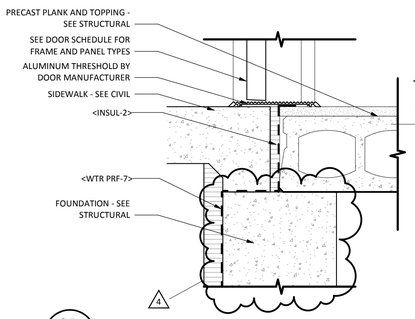
6D A251 WINDOW HEAD @ EX1
SCALE: 1 1/2" = 1'-0"



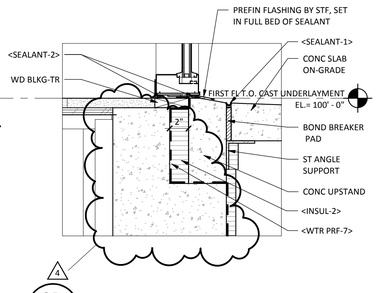
5D A251 EX1 - FLANGED WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



4D A251 EX2 - FLANGED WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



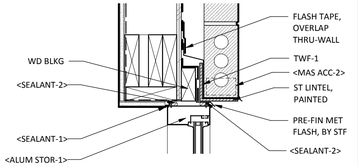
3D A251 EXT HM THRESHOLD
SCALE: 1 1/2" = 1'-0"



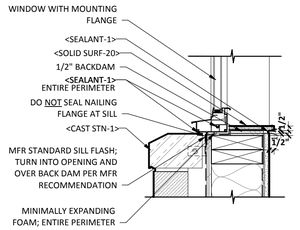
2D A251 STOREFRONT SILL @ STAIRS
SCALE: 1 1/2" = 1'-0"

SHEET MATERIAL ID LIST

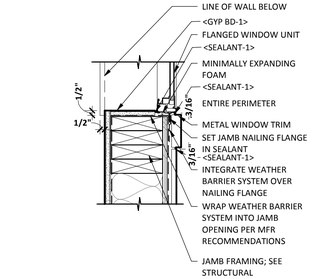
MATERIAL ID	SPEC SECTION & DESCRIPTION
AIR BAR-1	07 2500 - AIR BARRIER; MECHANICALLY FASTENED
ALUM STOR-1	08 4313 - ALUMINUM FRAMED STOREFRONT
CAST STN-1	04 7200 - CAST STONE TRIM
GYP BD-1	09 2116 - 5/8" FIRE-RATED TYPE 'X' GYPSUM BOARD
INSUL-2	07 2100 - EXTRUDED POLYSTYRENE WALL INSULATION
MAS ACC-2	04 2000 - POLYMER MESH HEAD JOINT WEEP
MAS ACC-5	04 2000 - CAVITY MORTAR CONTROL MESH
SEALANT-1	07 9005 - JOINT SEALANT OR CAULKING
SEALANT-2	07 9005 - JOINT SEALANT OR CAULKING WITH BACKER ROD
SMF-2	07 6200 - PREFINISHED ALUMINUM FLASHING
SOLID SURF-20	12 3600 - 1/2" SOLID SURFACING
WD BLKG-TR	06 1000 - PRESSURE PRESERVATIVE TREATED WOOD
WD SHTG-34	06 1000 - 3/4" PLYWOOD; GRADE C-C
WTR PRF-7	07 1723 - PRE-APPLIED SHEET WATERPROOFING



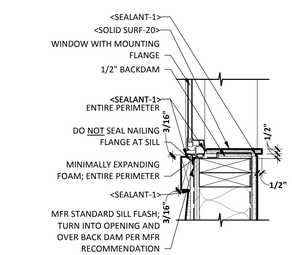
1D A251 STOREFRONT HEAD
SCALE: 1 1/2" = 1'-0"



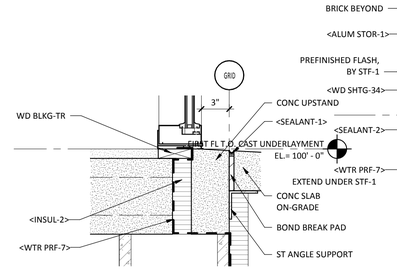
6C A251 FLANGED WINDOW SILL @ EX1
SCALE: 1 1/2" = 1'-0"



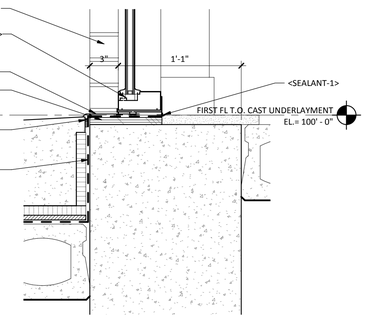
5C A251 EX2 - FLANGED WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



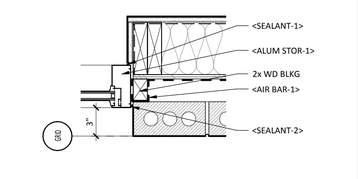
4C A251 EX2 - FLANGED WINDOW SILL
SCALE: 1 1/2" = 1'-0"



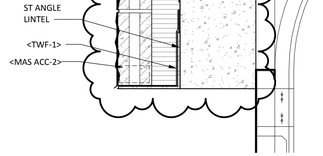
10 A251 STOREFRONT SILL
SCALE: 1 1/2" = 1'-0"



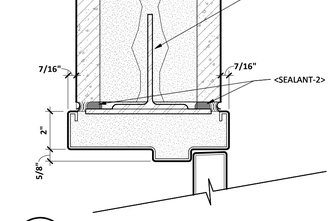
8 A251 STOREFRONT SILL @ PATIO
SCALE: 1 1/2" = 1'-0"



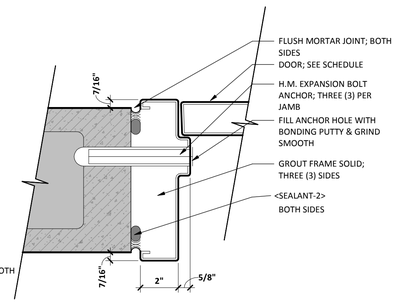
7A A251 STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0"



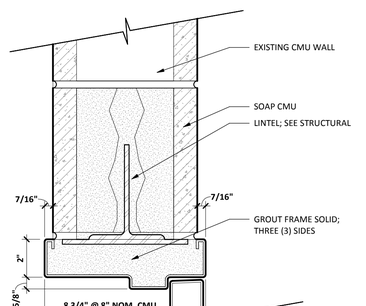
6B A251 OH DOOR HEAD
SCALE: 1 1/2" = 1'-0"



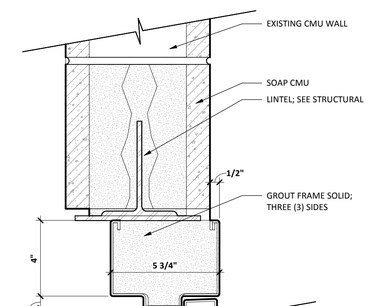
5B A251 HEAD @ EXIST. MASONRY
SCALE: 3" = 1'-0"



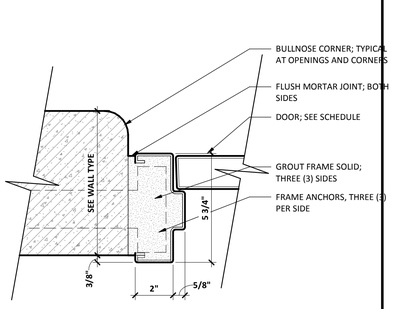
4B A251 H.M. JAMB - EXISTING MASONRY
SCALE: 3" = 1'-0"



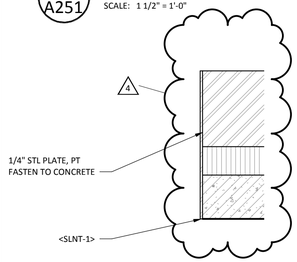
3B A251 H.M. HEAD @ MASONRY - OPTION 2
SCALE: 3" = 1'-0"



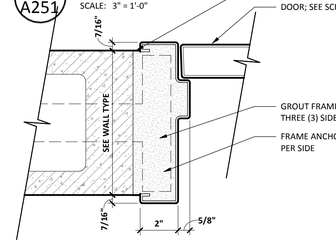
2B A251 H.M. HEAD @ MASONRY - OPTION 1
SCALE: 3" = 1'-0"



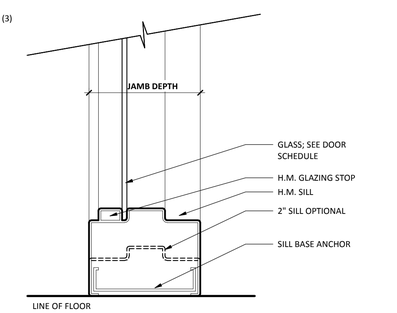
1B A251 H.M. JAMB - BULLNOSE MASONRY
SCALE: 3" = 1'-0"



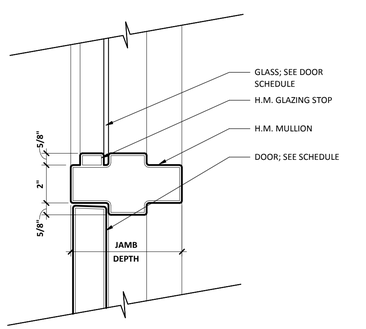
6A A251 OH DOOR JAMB
SCALE: 1 1/2" = 1'-0"



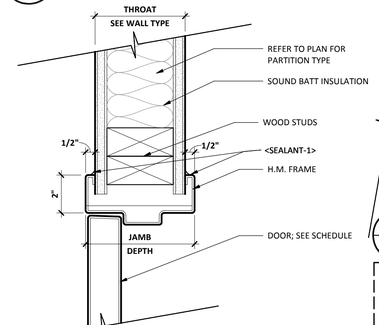
5A A251 H.M. JAMB - MASONRY
SCALE: 3" = 1'-0"



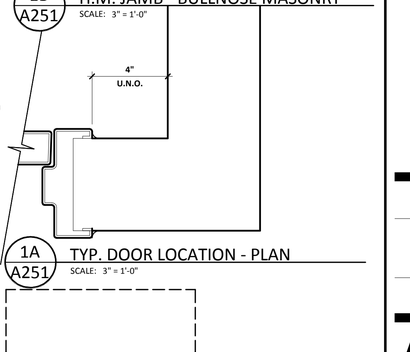
4A A251 H.M. SILL (SIDELITE SIM.)
SCALE: 3" = 1'-0"



3A A251 H.M. SIDELITE (TRANSOM SIM.)
SCALE: 3" = 1'-0"



2A A251 H.M. HEAD @ GWB
SCALE: 3" = 1'-0"



1A A251 TYP. DOOR LOCATION - PLAN
SCALE: 3" = 1'-0"

SCALE 1-1/2" = 1'-0"
0 1 2 4

SCALE 3" = 1'-0"
0 0.5 1 2

3/7/2018 3:49:55 PM

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NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

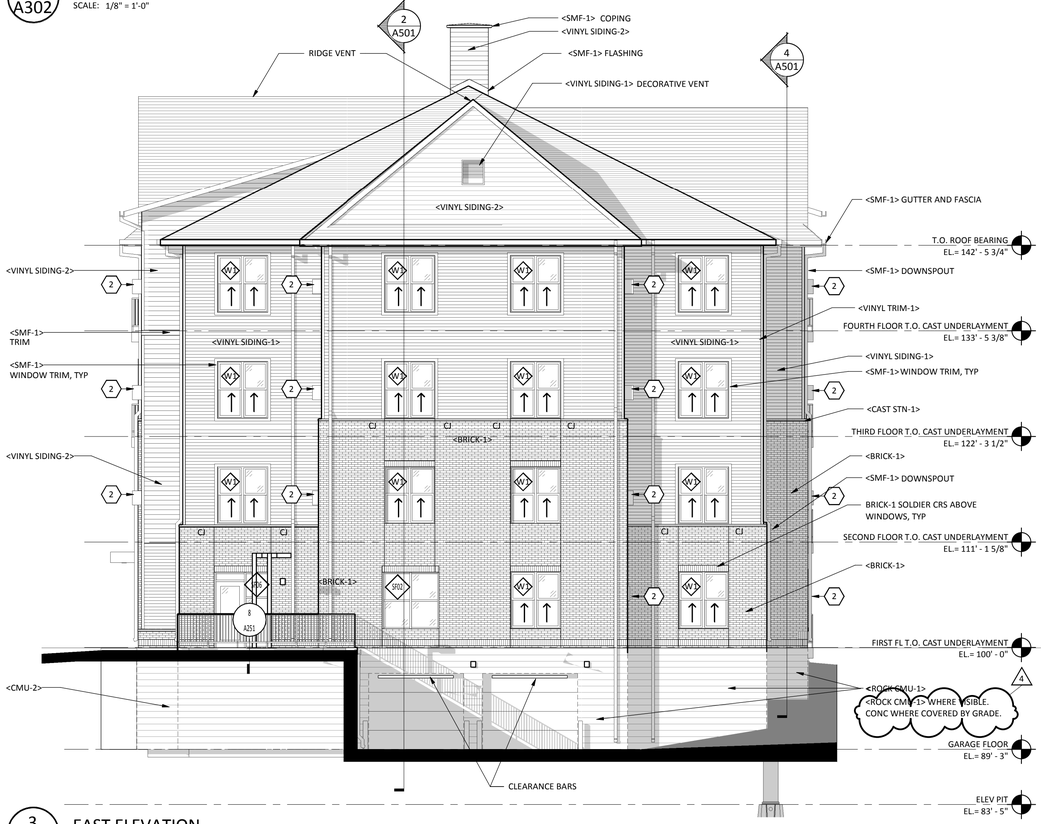
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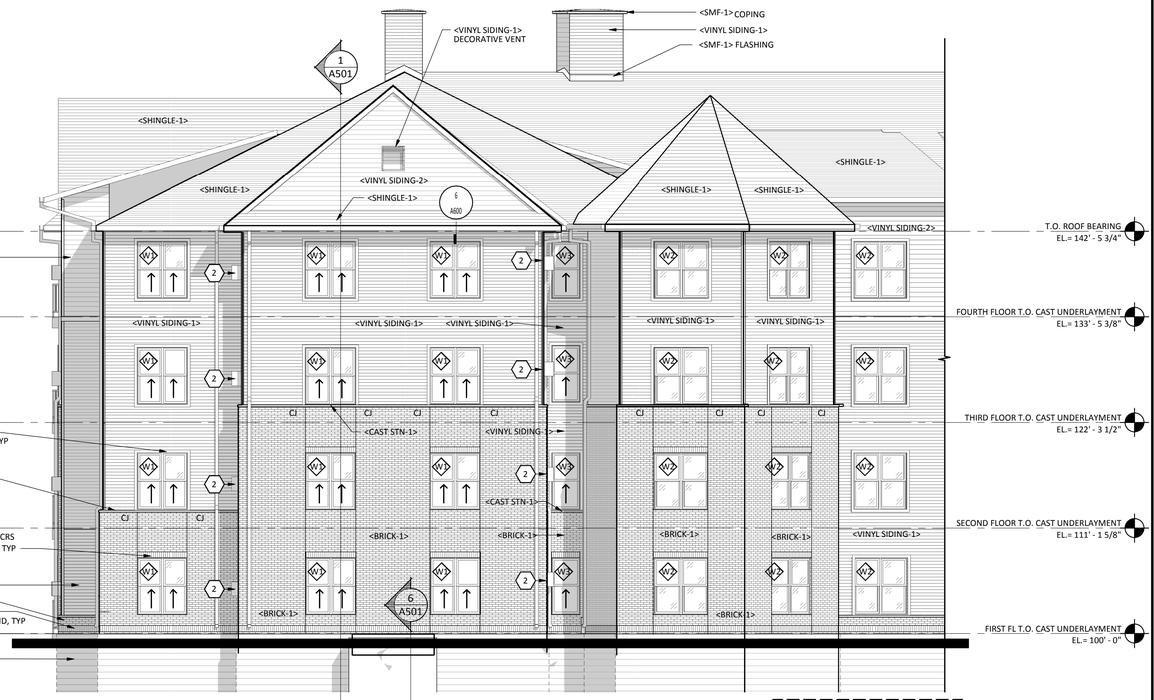
DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET A251
DOOR DETAILS



2 / A302 NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"



3 / A302 EAST ELEVATION
SCALE: 1/8" = 1'-0"



1 / A302 SOUTHWEST ELEVATION
SCALE: 1/8" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
BRICK-1	04 2000 - FACE BRICK
CAST STN-1	04 7200 - CAST STONE TRIM
CMU-2	04 2000 - LIGHT WEIGHT CMU
ROCK CMU-1	04 2000 - ROCK FACED CMU
SHINGLE-1	07 3113 - LAMINATED FIBERGLASS SHINGLES
SMF-1	07 6200 - PREFINISHED GALVANIZED STEEL FLASHING
VINYL SIDING-1	07 4633 - VINYL LAP SIDING
VINYL SIDING-2	07 4633 - VINYL LAP SHINGLES
VINYL TRIM-1	07 4633 - VINYL TRIM

0 8 16 32
SCALE 1/8" = 1'-0"

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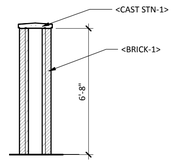
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
4	POST TENDER ADDENDUM #2	03/15/20 18

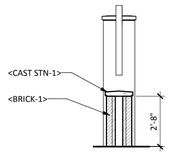
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DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET A302
EXTERIOR ELEVATIONS

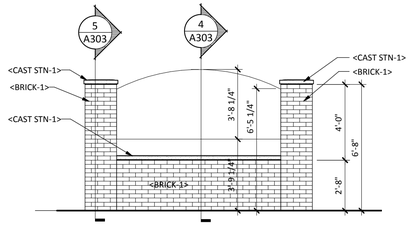
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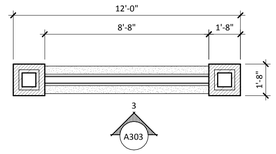
5 A303 SECTION @ PIER
SCALE: 1/4" = 1'-0"



4 A303 SECTION @ BASE
SCALE: 1/4" = 1'-0"



3 A303 MONUMENT SIGN ELEV
SCALE: 1/4" = 1'-0"



2 A303 MONUMENT SIGN PLAN
SCALE: 1/4" = 1'-0"



1 A303 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

0 8 16 32
SCALE 1/8" = 1'-0"

0 4 8 16
SCALE 1/4" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
BRICK-1	04 2000 - FACE BRICK
CAST STN-1	04 7200 - CAST STONE TRIM
ROCK CMU-1	04 2000 - ROCK FACED CMU
SHINGLE-1	07 3113 - LAMINATED FIBERGLASS SHINGLES
SMF-1	07 6200 - PREFINISHED GALVANIZED STEEL FLASHING
VINYL SIDING-1	07 4633 - VINYL LAP SIDING
VINYL SIDING-2	07 4633 - VINYL LAP SHINGLES
VINYL TRIM-1	07 4633 - VINYL TRIM

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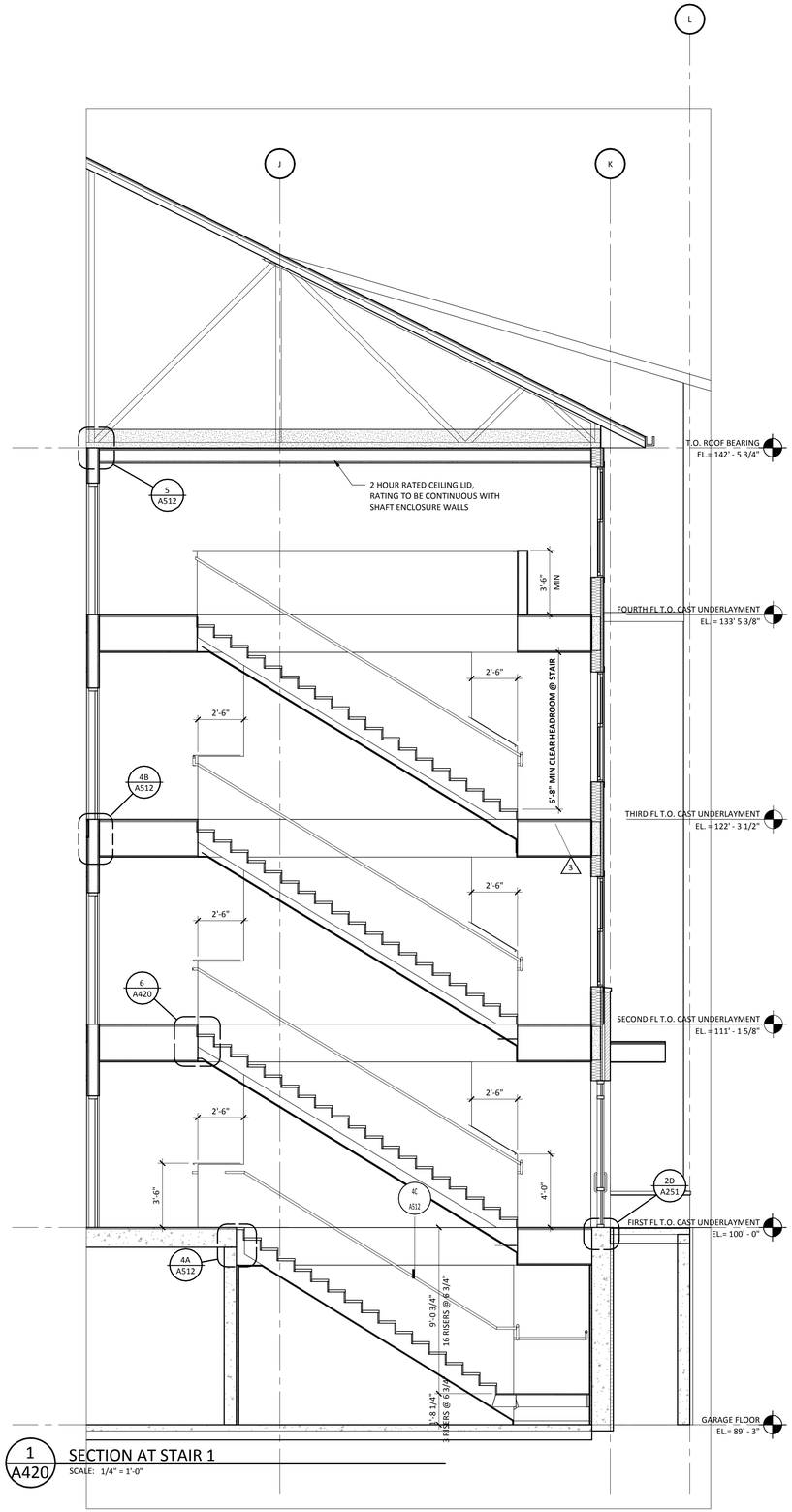
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BOTTINEAU RIDGE II APARTMENTS
MAPLE GROVE, MN

DATE
12/04/2017
PHASE
100% CDs
PROJECT
16098
SHEET
A303
EXTERIOR ELEVATIONS

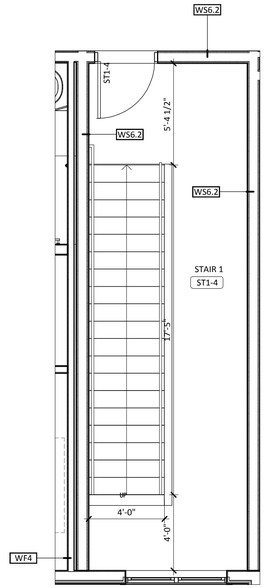
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SHEET MATERIAL ID LIST

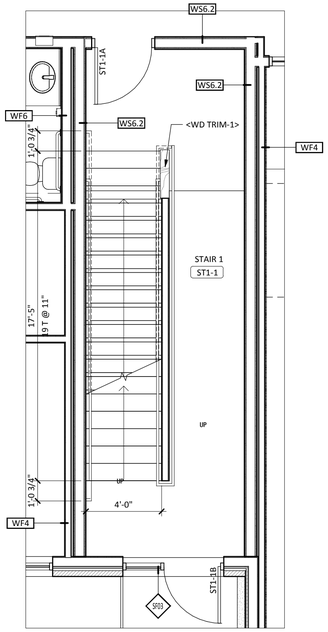
MATERIAL ID	SPEC SECTION & DESCRIPTION
FIRE CAB-1	10 4400 - FIRE EXTINGUISHER CABINET
GYP BD-4	09 2116 - 5/8" FIRE-RATED TYPE 'C' GYPSUM BOARD
WD BLKG	06 1000 - EXPOSED OR CONCEALED WOOD BLOCKING
WD SHTG-34	06 1000 - 3/4" PLYWOOD; GRADE C-C
WD TRIM-1	06 2000 - WOOD TRIM



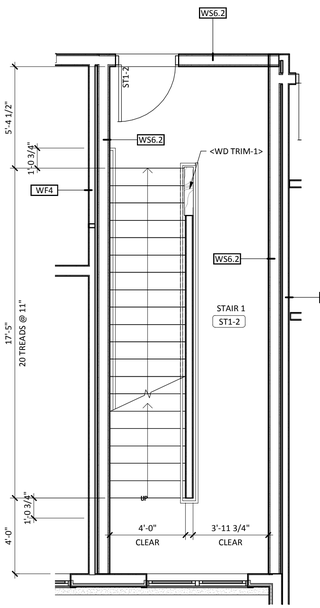
1 A420 SECTION AT STAIR 1
SCALE: 1/4" = 1'-0"



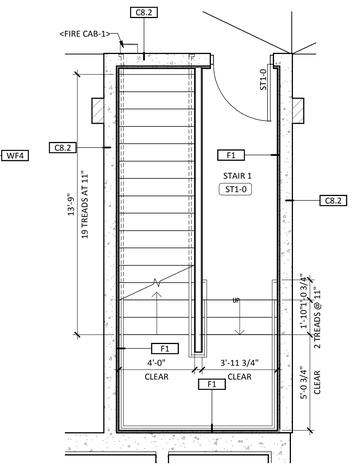
2 A420 STAIR 1 - 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"



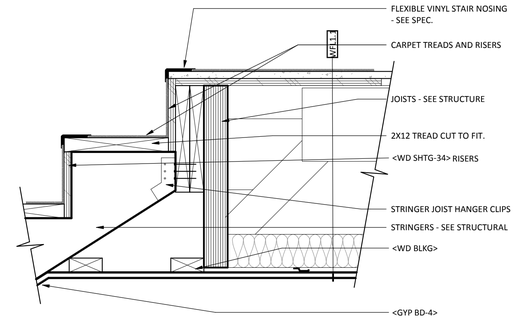
4 A420 STAIR 1 PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"



5 A420 STAIR 1 PLAN - 2ND -3RD FLOOR
SCALE: 1/4" = 1'-0"



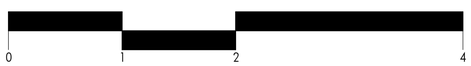
3 A420 STAIR 1 PLAN - GARAGE
SCALE: 1/4" = 1'-0"



6 A420 STAIR DETAIL AT UPPER LANDING
SCALE: 1 1/2" = 1'-0"



SCALE 1/4" = 1'-0"



SCALE 1-1/2" = 1'-0"

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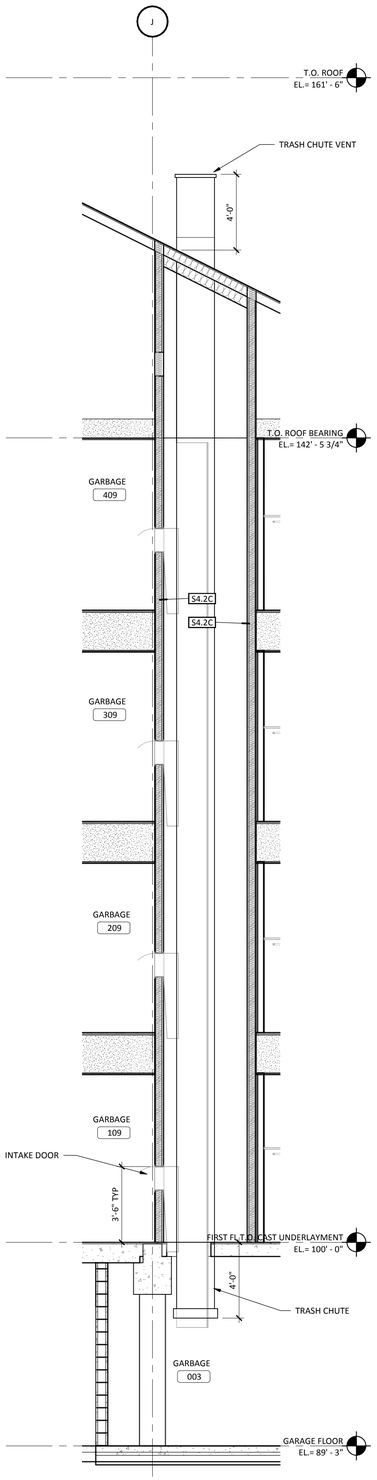
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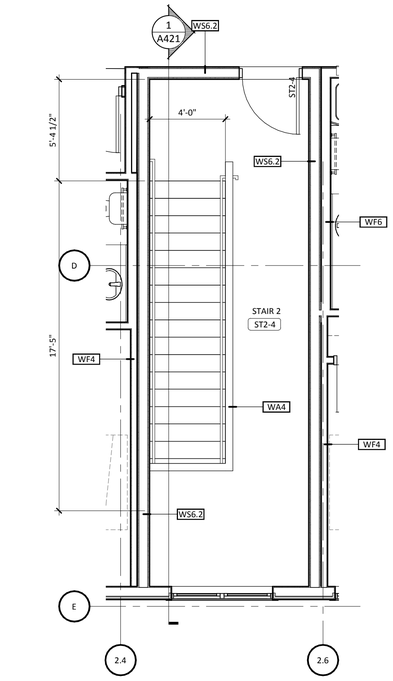
SHEET
A420

VERTICAL CIRCULATION - STAIR 1

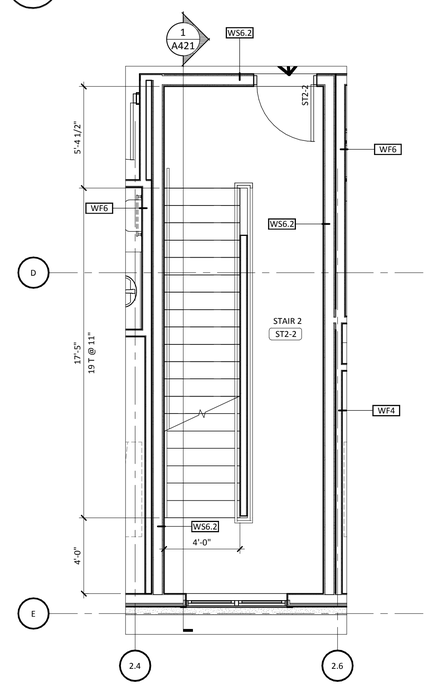
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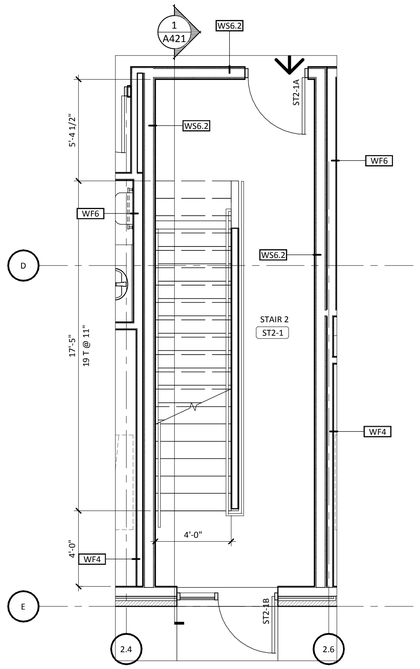
5 A421 SECTION AT TRASH CHUTE
SCALE: 1/4" = 1'-0"



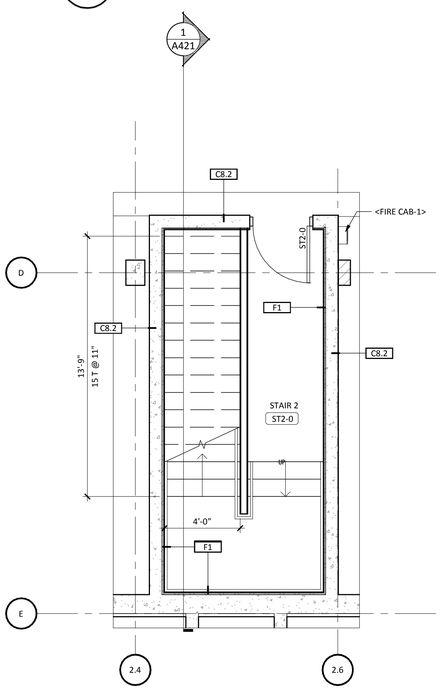
6 A421 STAIR 2 PLAN - 4TH FLOOR
SCALE: 1/4" = 1'-0"



4 A421 STAIR 2 PLAN - 2ND & THIRD FLOORS
SCALE: 1/4" = 1'-0"



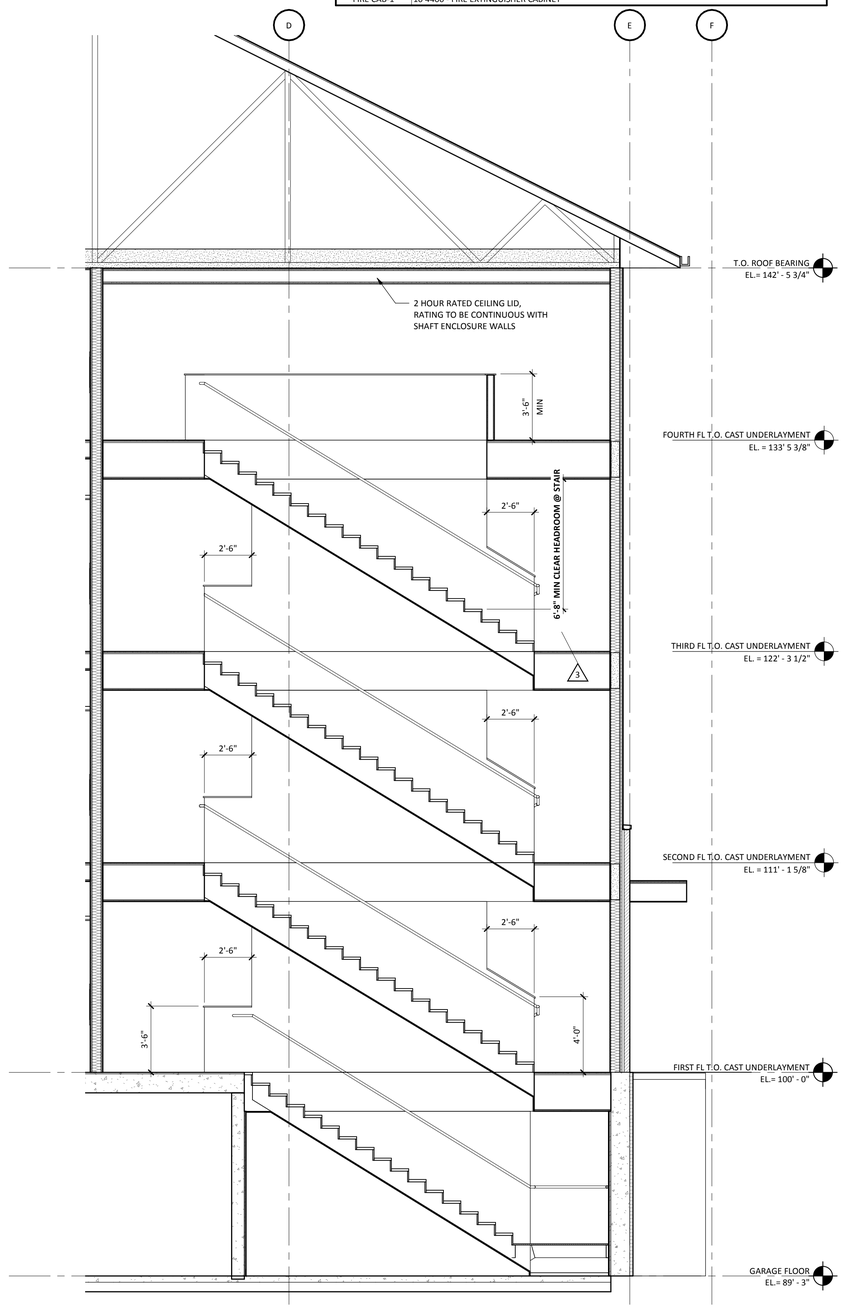
3 A421 STAIR PLAN 2 - FIRST FLOOR
SCALE: 1/4" = 1'-0"



2 A421 STAIR 2 PLAN - GARAGE
SCALE: 1/4" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
FIRE CAB-1	10 4400 - FIRE EXTINGUISHER CABINET



1 A421 SECTION AT STAIR 2
SCALE: 1/4" = 1'-0"

0 4 8 16

SCALE 1/4" = 1'-0"

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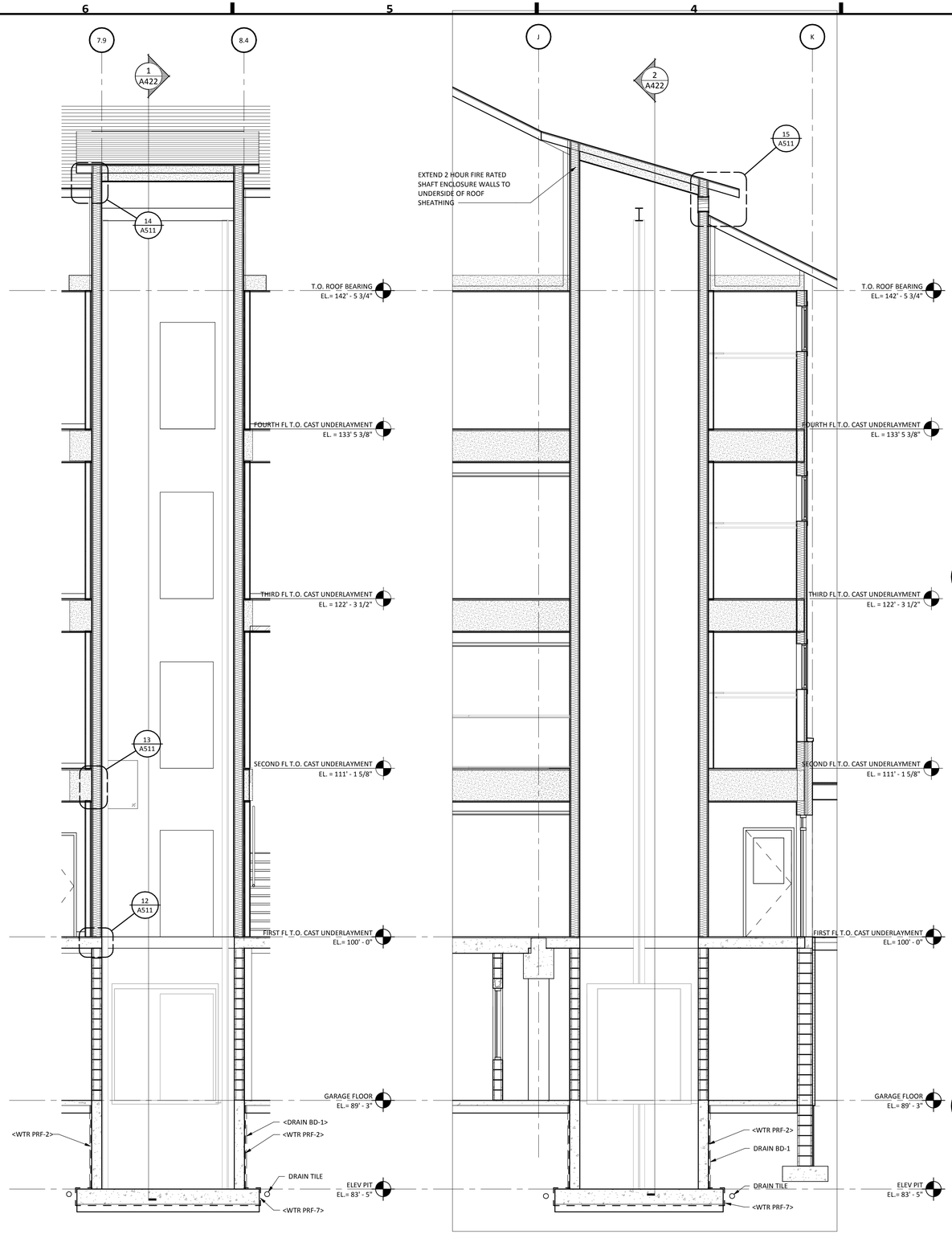
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PROJECT
16098

SHEET
A421

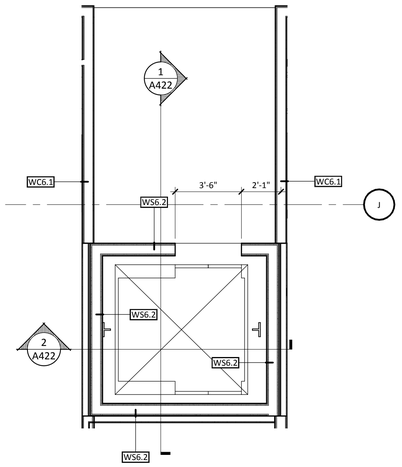
VERTICAL CIRCULATION - STAIR 2

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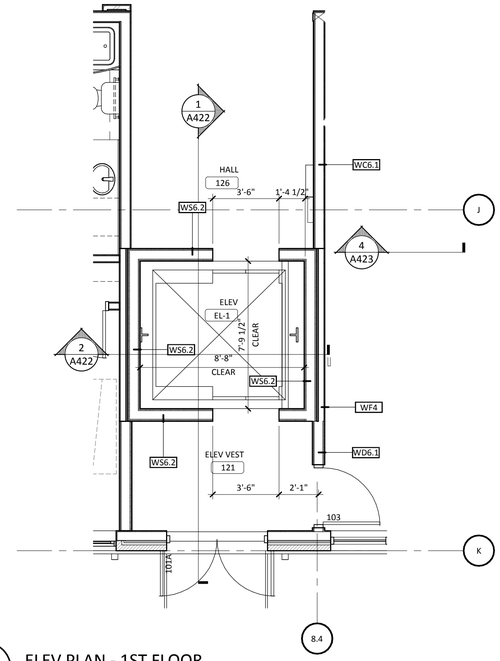


2 A422 ELEV SECTION - E/W
SCALE: 1/4" = 1'-0"

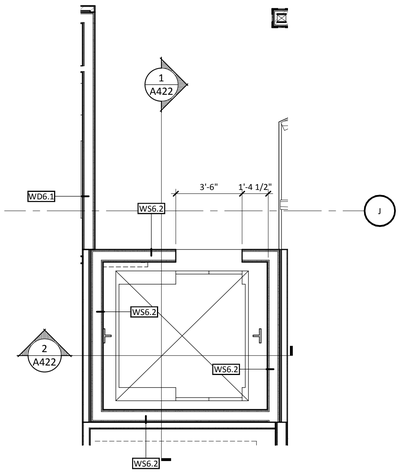
1 A422 ELEV SECTION - N/S
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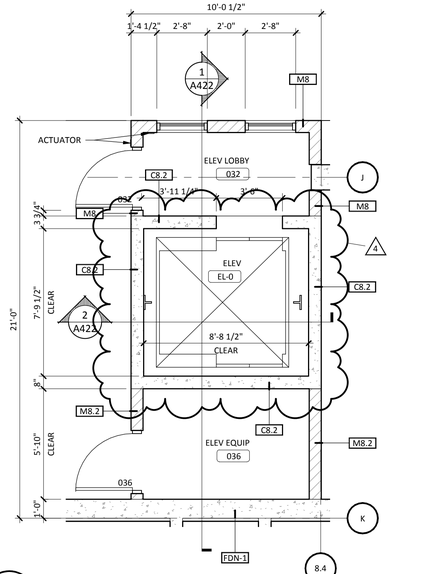
6 A422 ELEV PLAN - 3RD-4TH FLOORS
SCALE: 1/4" = 1'-0"



4 A422 ELEV PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



5 A422 ELEV PLAN - 2ND FLOOR
SCALE: 1/4" = 1'-0"



3 A422 ELEV FLOOR PLAN - BASEMENT
SCALE: 1/4" = 1'-0"

0 4 8 16
SCALE 1/4" = 1'-0"

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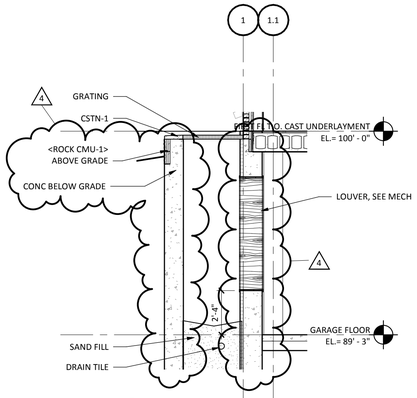
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MAPLE GROVE, MN

DATE 12/04/2017
PHASE 100% CDs
PROJECT 16098
SHEET **A422**
VERTICAL CIRCULATION - ELEVATOR

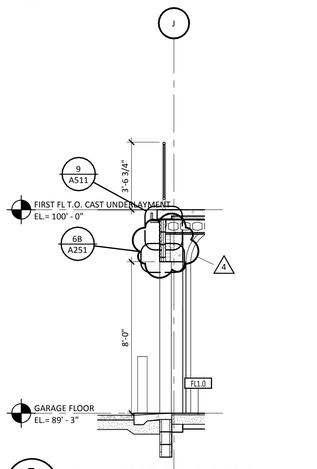
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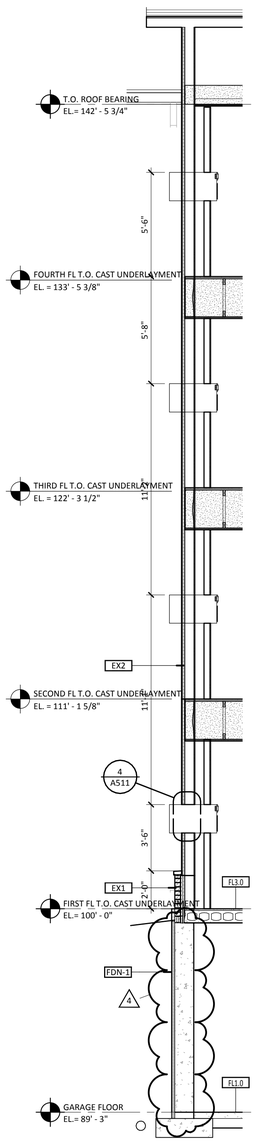
MATERIAL ID	SPEC SECTION & DESCRIPTION



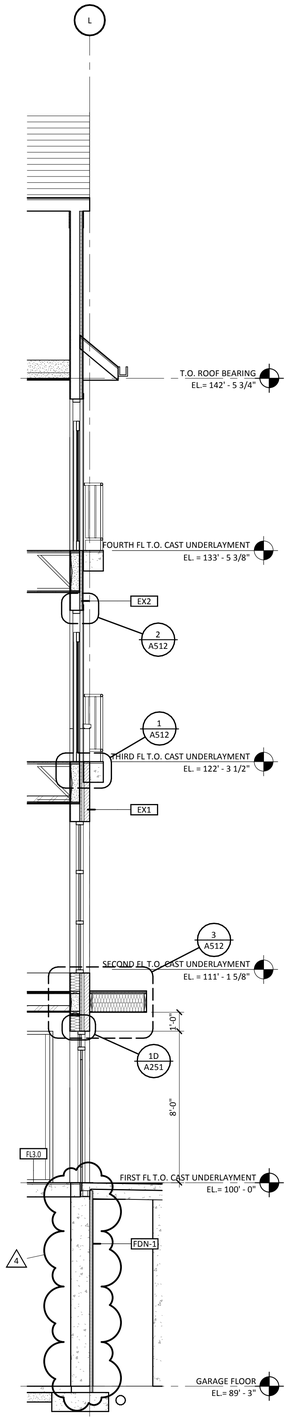
6 A501 WALL SECTION @ AREA WELL
SCALE: 1/4" = 1'-0"



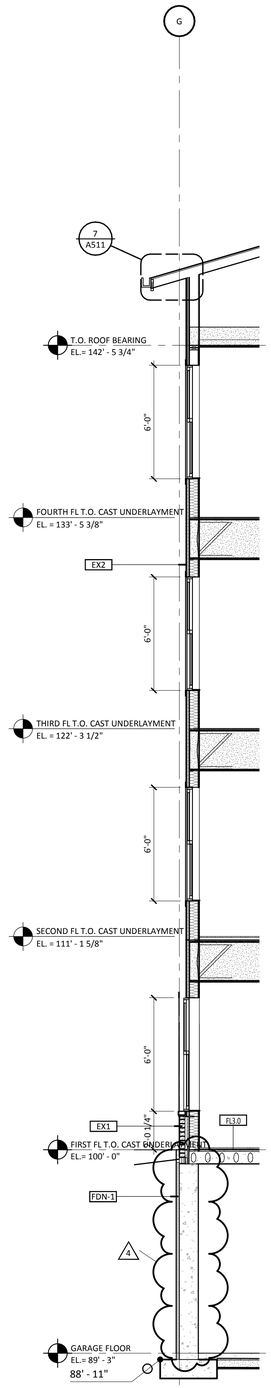
5 A501 WALL SECTION @ PATIO
SCALE: 1/4" = 1'-0"



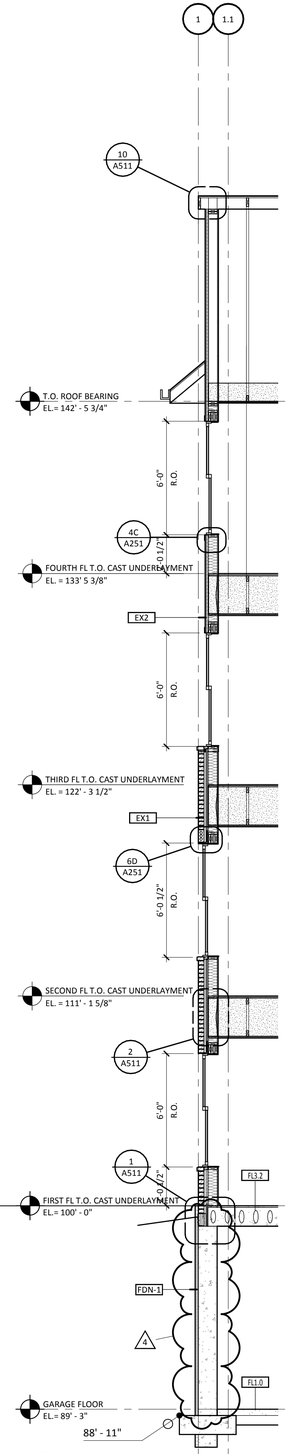
4 A501 WALL SECTION
SCALE: 1/4" = 1'-0"



3 A501 WALL SECTION @ ENTRY
SCALE: 1/4" = 1'-0"



2 A501 WALL SECTION AT GABLE
SCALE: 1/4" = 1'-0"



1 A501 WALL SECTION AT GRID 1
SCALE: 1/4" = 1'-0"

0 4 8 16
SCALE 1/4" = 1'-0"

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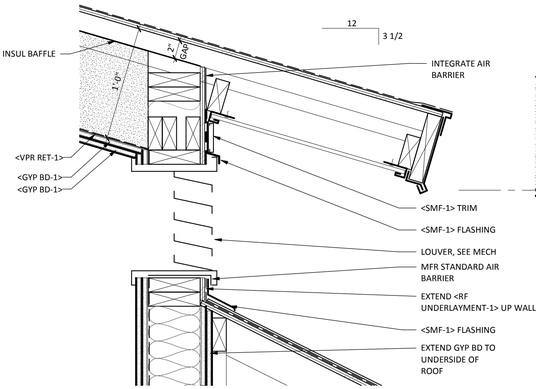
DATE
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PHASE
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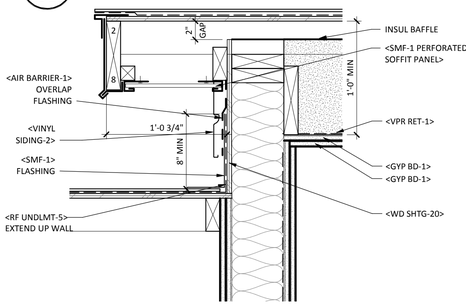
PROJECT
16098

SHEET
A501
EXTERIOR WALL SECTIONS

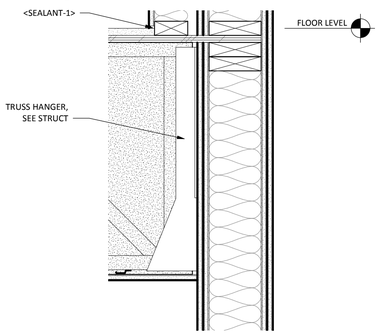
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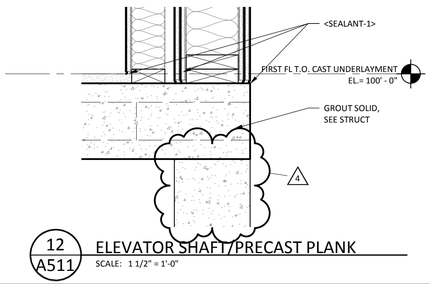
15 A511 ELEVATOR SHAFT/SHED ROOF
SCALE: 1 1/2" = 1'-0"



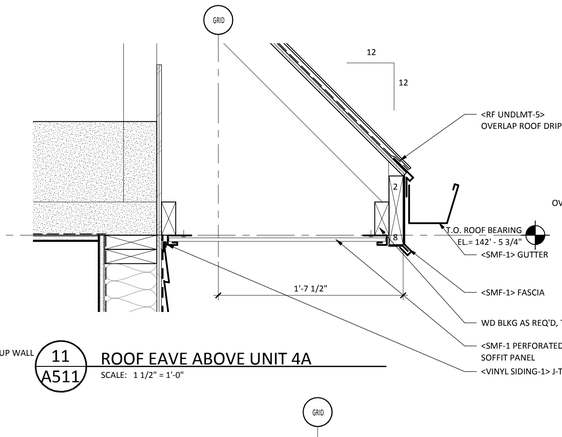
14 A511 ELEVATOR SHAFT/ROOF
SCALE: 1 1/2" = 1'-0"



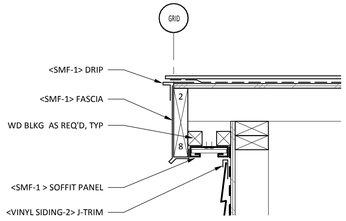
13 A511 ELEVATOR SHAFT/FLOOR
SCALE: 1 1/2" = 1'-0"



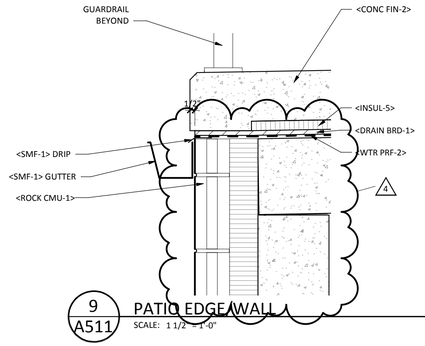
12 A511 ELEVATOR SHAFT/PRECAST PLANK
SCALE: 1 1/2" = 1'-0"



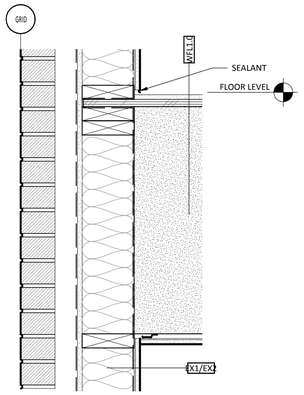
11 A511 ROOF EAVE ABOVE UNIT 4A
SCALE: 1 1/2" = 1'-0"



10 A511 GABLE FASCIA
SCALE: 1 1/2" = 1'-0"

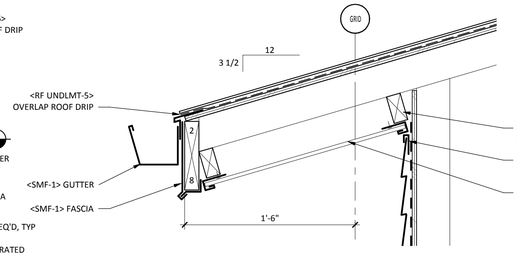


9 A511 PATIO EDGE/WALL
SCALE: 1 1/2" = 1'-0"

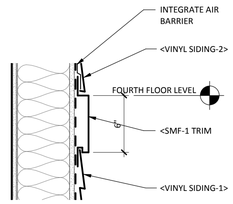


2 A511 TYPICAL FLOOR-EXTERIOR WALL
SCALE: 1 1/2" = 1'-0"

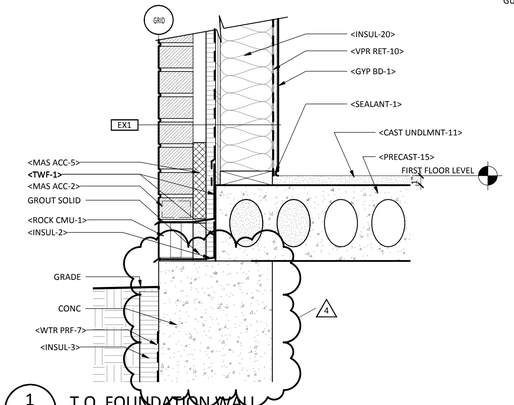
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SCALE 1-1/2" = 1'-0"



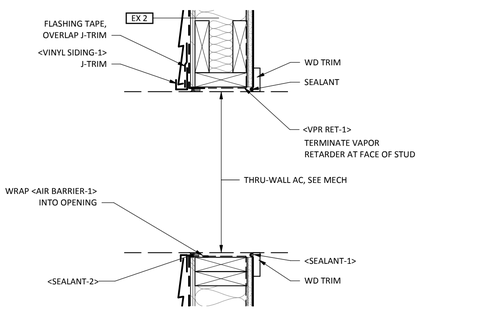
7 A511 SHED ROOF EAVE
SCALE: 1 1/2" = 1'-0"



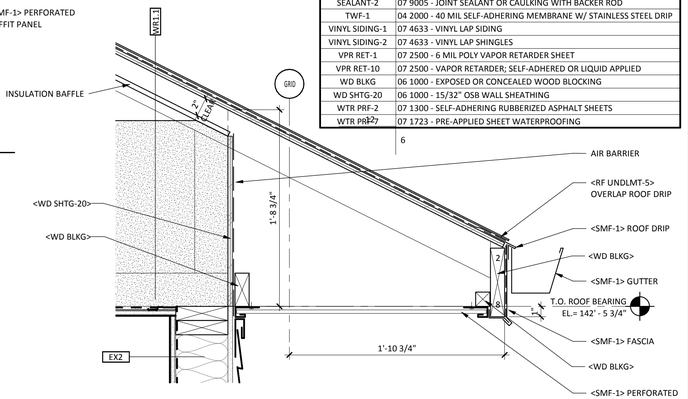
6 A511 HORIZONTAL TRIM
SCALE: 1 1/2" = 1'-0"



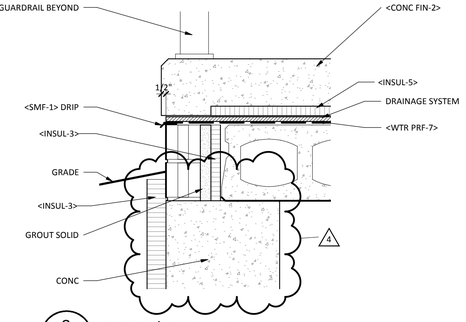
1 A511 T.O. FOUNDATION WALL
SCALE: 1 1/2" = 1'-0"



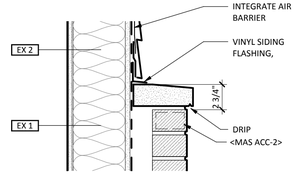
4 A511 THRU-WALL AIR CONDITIONER
SCALE: 1 1/2" = 1'-0"



3 A511 ROOF EAVE TYPICAL
SCALE: 1 1/2" = 1'-0"



8 A511 PATIO/FDTN WALL
SCALE: 1 1/2" = 1'-0"



5 A511 CAPSTONE
SCALE: 1 1/2" = 1'-0"

SHEET MATERIAL ID LIST

MATERIAL ID	SPEC SECTION & DESCRIPTION
CAST STN-1	04 7200 - CAST STONE TRIM
CAST UNDLMNT-11	03 5400 - GYPSUM BASED UNDERLAYMENT W/ SOUND CONTROL MEMBRANE
DRAIN BRD-1	07 1300 - DRAINAGE BOARD
GYP BD-1	09 2116 - 5/8" FIRE-RATED TYPE 'X' GYPSUM BOARD
INSUL-2	07 2100 - EXTRUDED POLYSTYRENE WALL INSULATION
INSUL-3	07 2100 - PERIMETER BELOW GRADE EXTRUDED POLYSTYRENE INSULATION W/ DRAINAGE CHANNELS
INSUL-5	07 2100 - HORIZONTAL PLAZA HIGH DENSITY EXTRUDED POLYSTYRENE
INSUL-20	07 2100 - FIBERGLASS BATT INSULATION, UNFACED
INSUL-34	07 2126 - BULK FIBERGLASS INSULATION FOR PNEUMATIC PLACEMENT
MAS ACC-2	04 2000 - POLYMER MESH HEAD JOINT WEEP
MAS ACC-5	04 2000 - CAVITY MORTAR CONTROL MESH
PRECAST-15	03 4113 - PRECAST HOLLOW CORE PLANK
RF UNDLMT-5	07 2500 - SELF-ADHEREING ICE/WATER SHIELD
ROCK CMU-1	04 2000 - ROCK FACED CMU
SEALANT-1	07 9005 - JOINT SEALANT OR CAULKING
SEALANT-2	07 9005 - JOINT SEALANT OR CAULKING WITH BACKER ROD
TWF-1	04 2000 - 40 MIL SELF-ADHERING MEMBRANE W/ STAINLESS STEEL DRIP
VINYL SIDING-1	07 4633 - VINYL LAP SIDING
VINYL SIDING-2	07 4633 - VINYL LAP SHINGLES
VPR RET-1	07 2500 - 6 MIL POLY VAPOR RETARDER SHEET
VPR RET-10	07 2500 - VAPOR RETARDER; SELF-ADHERED OR LIQUID APPLIED
WD BLKG	06 1000 - EXPOSED OR CONCEALED WOOD BLOCKING
WD SHTG-20	06 1000 - 15/32" OSB WALL SHEATHING
WTR PRF-2	07 1300 - SELF-ADHERING RUBBERIZED ASPHALT SHEETS
WTR PRF-7	07 1723 - PRE-APPLIED SHEET WATERPROOFING

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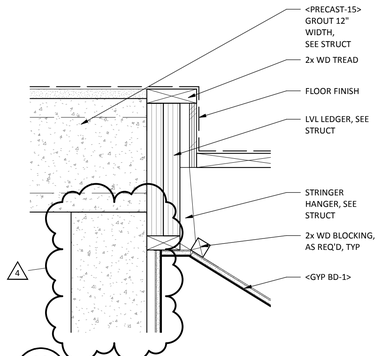
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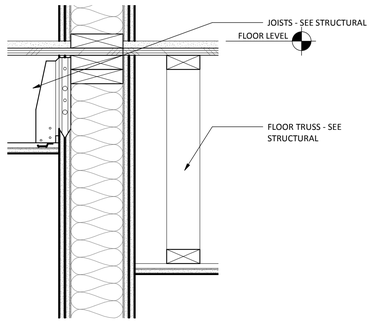
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MAPLE GROVE, MN

DATE 12/04/2017
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PROJECT 16098
SHEET A511
SECTION DETAILS

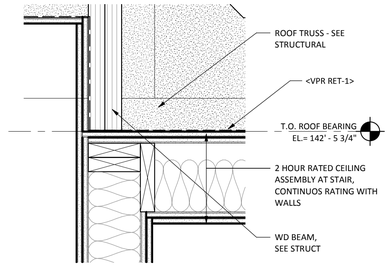
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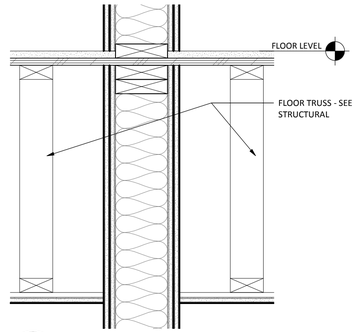
4A A512 STAIR/PRECAST PLANK/WALL
SCALE: 1 1/2" = 1'-0"



4B A512 STAIR LANDING @ ENCLOSURE WALL
SCALE: 1 1/2" = 1'-0"



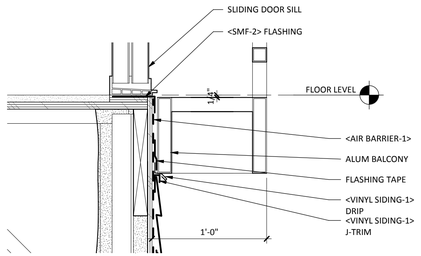
5 A512 STAIR ENCLOSURE/ATTIC
SCALE: 1 1/2" = 1'-0"



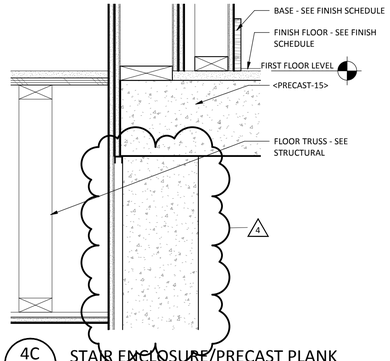
3D A512 FLOOR-DEMISING WALL
SCALE: 1 1/2" = 1'-0"

SHEET MATERIAL ID LIST

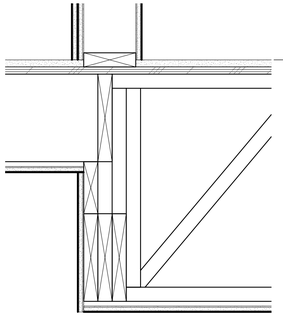
MATERIAL ID	SPEC SECTION & DESCRIPTION
ACT-1	09 5100 - ACOUSTICAL CEILING TILE SYSTEM
AIR BAR-1	07 2500 - AIR BARRIER; MECHANICALLY FASTENED
INSUL-2	07 2100 - EXTRUDED POLYSTYRENE WALL INSULATION
PRECAST-15	03 4113 - PRECAST HOLLOW CORE PLANK
RB BASE-2	09 6500 - 2-1/2" RUBBER COVE BASE
SEALANT-1	07 9005 - JOINT SEALANT OR CAULKING
SMF-2	07 6200 - PREFINISHED ALUMINUM FLASHING
VPR RET-1	07 2500 - 6 MIL POLY VAPOR RETARDER SHEET
WD SHTG-20	06 1000 - 15/32" OSB WALL SHEATHING
WD SHTG-34	06 1000 - 3/4" PLYWOOD; GRADE C-C

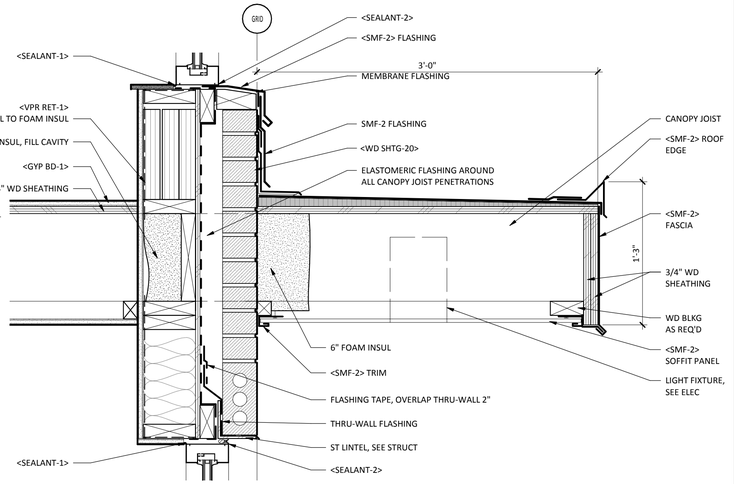


1 A512 BALCONY-SLIDING DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"

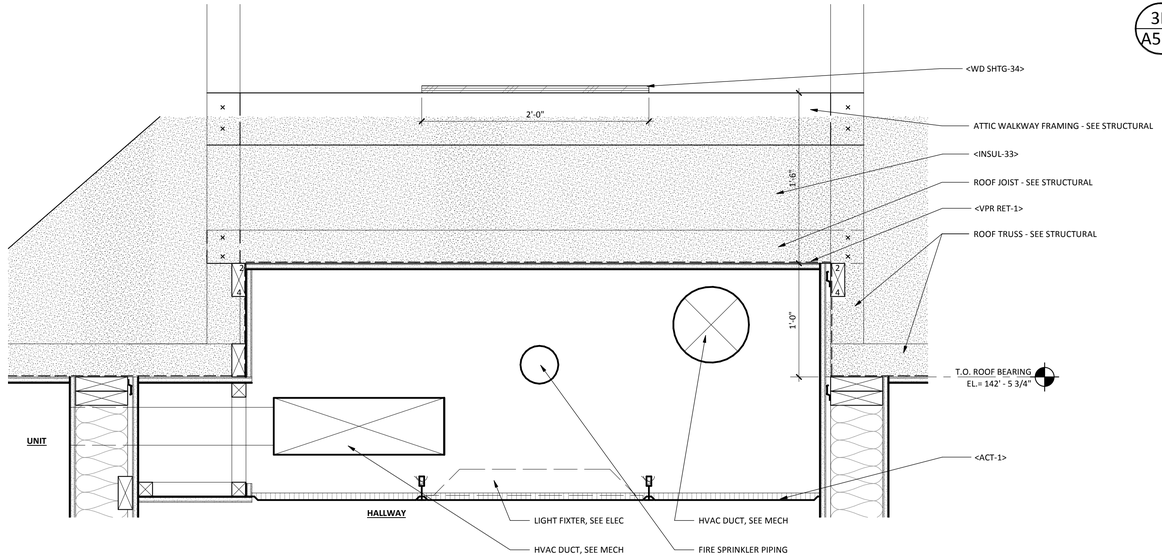


4C A512 STAIR ENCLOSURE/PRECAST PLANK
SCALE: 1 1/2" = 1'-0"



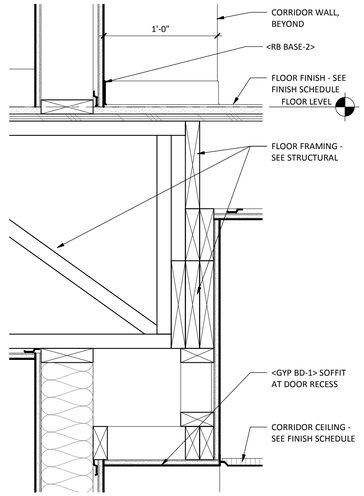


3 A512 ENTRY CANOPY
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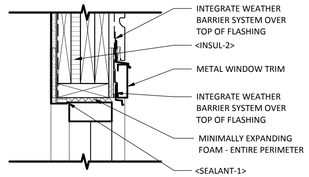


5D A512 ATTIC WALKWAY
SCALE: 1 1/2" = 1'-0"

3B A512 FLOOR/CORRIDOR WALL
SCALE: 1 1/2" = 1'-0"



3A A512 FLOOR/CORRIDOR WALL @ UNIT ENTRY
SCALE: 1 1/2" = 1'-0"



2 A512 SLIDING DOOR HEAD
SCALE: 1 1/2" = 1'-0"

0 1 2 4

SCALE 1-1/2" = 1'-0"

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