

Planning Memorandum

To: Mayor O'Leary and the Sunfish Lake City Council

From: Lori Johnson, City Planner

Date: June 6, 2023

Re: 410 Salem Church Road – Major Site Plan Review
WSB Project No. 022370-000
SFL No. 02-2023

GENERAL INFORMATION

Applicant: Butch Sprenger, Destiny Homes

Property Owner: Tim and Kristel Barber

Project Location: 410 Salem Church Road – PID 381360000030

Acreage: 2.44 acres

Existing Land Use: Single-Family Residential

Zoning: Zoned R-1 within Shoreland Overlay District (partial)

Surrounding Land Use / Zoning: Surrounded by Single Family Homes/R-1 Zoning

Comprehensive Plan: The City of Sunfish Lake (2040) Comprehensive Plan guides this property for Rural Residential land use.

Deadline for Agency Action:

Application Date:	03-22-2023
60 Days:	05-21-2023
Extension Letter Mailed:	05-02-2023
120 Days:	07-01-2023

Attachments:

- Location Map
- Aerial
- Narrative
- Site Removals Plan
- Site Plan/Renderings/Architectural Plans
- Grading, Stormwater Management and Erosion Control Plans
- Tree Replacement Plan

CONSIDERATIONS RELATED TO THE REQUEST

1. Overview.

Butch Sprenger of Destiny Homes, on behalf of Tim and Kristel Barber who are the property owners at 410 Salem Church Road, has made an application for Major Site and Building Plan Review to allow for the approval to construct an addition to the existing home. The proposed addition is proposed on the northwest corner of the existing home, and it is to be used for additional garage space, office space and a mudroom. The size of the proposed addition is 1,700 square feet. The existing paver walk in front of the home will be removed and a new bituminous driveway will be installed to access the new garage portion of the addition. Because the proposed addition is over 1,000 square feet in size, the zoning ordinance requires Major Site and Building Plan approval for the project.

2. General Zoning Review—New Home

Setbacks: The new addition to the home is set back from the front property line at a distance greater than what is required by the ordinance. The addition is closer to the rear property line than the front property line. All setbacks are met with the proposed addition.

Impervious Surface and Building Coverage: The total proposed impervious surface coverage for the lot on which the home is to be located is 18%. The total impervious surface coverage allowed is 30% and this plan meets this requirement.

The total building coverage allowed on the lot cannot be greater than 10% per ordinance requirements. The building coverage on the home lot is 5% which meets ordinance requirements.

Size: The addition that is being constructed is 1,700 square feet.

Exterior Elevations and Height: Colored renderings have been provided for the new addition, and the addition matches the existing exterior architecture of the home. The overall height of the addition matches and does not exceed the height of the existing home.

Tree Preservation/Landscaping: There are four existing trees planned for removal, and the City Forester has confirmed this with a site visit. The applicant is meeting tree replacement requirements by installing four new trees on site as part of the project. The applicant will also be installing foundation plantings in the area of the new driveway.

DNR Approval. The Minnesota DNR Area Hydrologist was notified of the proposed request. The Hydrologist did not offer any further comments or express concerns.

Planning Commission Update: The Planning Commission reviewed this application on May 18, 2023, and an onsite meeting was held prior to the meeting. There were no residents present at the on-site meeting or at the public hearing. There were no comments from the public at the Planning Commission meeting. The applicant noted he would include an oil trap in the garage floor, which was not noted on the plans. The Planning Commission voted (4-0) to approve the major site plan review.

Site Plan Review Criteria

The Planning Commission, as its basis of recommendation, and the City Council, as its basis for decision on major projects, shall evaluate the effects of the proposed site and building plans according to the criteria below:

- A. Whether the proposed improvements are compatible and in harmony with the existing structures in the surrounding community.
- B. Whether the proposed improvements preserve the character and nature of the surrounding community, including the natural landscape and woodland characteristics of the community.
- C. Whether the proposed improvements are not constructed of unsightly, improper or unsuitable materials.
- D. Whether the proposed improvements will not materially adversely affect any natural resources in the community, except when there is no feasible and prudent alternative to the proposed location of the improvements. For purposes of this clause, "natural resources" shall include, but not be limited to, all mineral, animal, botanical, air, water, land, timber, soil, quietude, recreational, historical, scenic and aesthetic resources.
- E. Whether the proposed site and improvements shall have an appearance that will not have an adverse effect upon adjacent residential properties.
- F. Whether the proposed site improvement complies with drainage requirements, as provided in Section 1216.04 of this Ordinance.
- G. Whether the proposed site and improvements are consistent with the purposes of the zoning ordinance.

Additional Shoreland Overlay Evaluation Criteria

A thorough evaluation of the water body and the topographic, vegetation, and soils conditions on the site shall be made to ensure:

- 1. The prevention of soil erosion or other possible pollution of public waters, both during and after construction.
- 2. The visibility of structures and other facilities as viewed from public waters is limited.
- 3. The site is adequate for water supply and on-site sewage treatment.
- 4. The types, uses, and numbers of watercraft that the project will generate are compatible in relation to the suitability of public waters to safely accommodate these watercrafts.

The information provided in this staff report and on the proposed plans indicate that all above criteria have been met for major site and building plan approval and shoreland considerations.

No public comments have been received as of the date of the staff report publication.

RECOMMENDATION

Based on the foregoing considerations and applicable ordinances, staff recommends approval of the major site and building plan review for a building addition subject to the following findings of fact and conditions of approval:

Findings of Fact:

1. The location of the subject property is as follows:

410 Salem Church Road
SUNFISH LAKE, MN 55077
2. The planning reports dated May 18, 2023 and June 5, 2023, prepared by WSB are incorporated herein by reference.
3. The Applicant has submitted an application for a major site and building plan.
4. Requests for major site and building plan review require Planning Commission review and City Council approval.
5. Notices for public hearings regarding requests on lots within the Shoreland Overlay district must be sent to the Department of Natural Resources.
6. The Sunfish Lake Planning Commission reviewed the applicant's request for major site and building plan approval at the May 18, 2023 Planning Commission meeting.
7. Upon review of the planning report and application information, the Planning Commission found that the proposed site and building plans meet Ordinance requirements. The following findings support the Planning Commission's recommendation for approval:

Major Site and Building Plans:

- a. The proposed improvements meet R-1 and Shoreland Overlay District requirements and standards.
- b. The proposed development addresses Ordinance requirements pertaining to grading, drainage and stormwater management, landscaping, and screening.
- c. The proposed home meets Ordinance requirements pertaining to building size, and material use.
- d. The development meets other applicable Zoning Ordinance criteria.

Conditions of Approval:

1. Construction of the home and all improvements shall occur in substantial conformance with the plans recommended for approval at the May 18, 2023, Planning Commission meeting and the June 6, 2023 City Council meeting.
2. The applicant must obtain all other permits as may be required.

3. The applicant shall comply with all applicable federal, state, and local laws, rules and ordinances.
4. The applicant must adhere to and remain in compliance with the requirements of this Resolution, applicable performance standards, and such other requirements as may apply.
5. All conditions of the site plan review must be complied with, shall run with the land, and shall not in any way be affected by the subsequent sale, lease or other change from current ownership of the Property.
6. This Resolution is subject to the condition that all representations, written and oral, made by the Applicant and its agents and representatives to the City contained in and concerning the Applicant's application for the site plan review must have been true, complete and accurate at the time they were made, and that they remain true and accurate for the duration of the development.
7. By undertaking the activities approved by the requests, the Applicant agrees to all conditions.
8. The improvements to be staked out in the field by the surveyor and reviewed and approved by city staff prior to the start of any construction.
9. All erosion controls identified on the approved plan must be properly installed and inspected by City staff prior to the start of any construction.
10. If site disturbance exceeds one acre, the applicant agrees to apply for a NPDES permit through the MPCA and supply the city with the approved Storm Water Pollution Prevention Plan (SWPPP) and the approved MPCA NPDES permit.

**CITY OF SUNFISH LAKE
DAKOTA COUNTY, MINNESOTA**

RESOLUTION NO. 23-XX

**RESOLUTION APPROVING A MAJOR SITE AND BUILDING PLAN REVIEW FOR
THE PROPERTY AT 410 SALEM CHURCH ROAD, SUNFISH LAKE, DAKOTA
COUNTY, MINNESOTA.**

WHEREAS, Butch Sprenger, Applicant, on behalf of the property owners Tim and Kristel Barber, submitted an application for the approval of a major site and building plan review for the property at 410 Salem Church Road, Sunfish Lake, Dakota County, Minnesota, legally described as:

LOT 3, BLOCK 1 BELFIELD HILLS

WHEREAS, a request for major site and building plan review requires Planning Commission review and City Council approval; and

WHEREAS, City staff reviewed the application and outlined their review comments in planning reports dated May 18, 2023 and June 6, 2023, prepared by WSB; and

WHEREAS, the Sunfish Lake Planning Commission held a public hearing at their May 18, 2023 meeting and reviewed the major site and building plan review application, along with the referenced staff report; and

WHEREAS, upon hearing the staff presentations, applicant testimony, and public testimony, the Planning Commission closed the public hearing and recommend to the City Council approval of the major site and building plan review on a vote of 4-0 vote; and

WHEREAS, the following findings support the Planning Commission recommendation for approval:

1. The location of the subject property is as follows:

410 Salem Church Road
SUNFISH LAKE, MN 55077
2. The planning reports dated May 18, 2023 and June 5, 2023, prepared by WSB are incorporated herein by reference.
3. The Applicant has submitted an application for a major site and building plan.
4. Requests for major site and building plan review require Planning Commission review and City Council approval.

5. Notices for public hearings regarding requests on lots within the Shoreland Overlay district must be sent to the Department of Natural Resources.
6. The Sunfish Lake Planning Commission reviewed the applicant's request for major site and building plan approval at the May 18, 2023 Planning Commission meeting.
7. Upon review of the planning report and application information, the Planning Commission found that the proposed site and building plans meet Ordinance requirements. The following findings support the Planning Commission's recommendation for approval:

Major Site and Building Plans:

- a. The proposed improvements meet R-1 and Shoreland Overlay District requirements and standards.
- b. The proposed development addresses Ordinance requirements pertaining to grading, drainage and stormwater management, landscaping, and screening.
- c. The proposed addition meets Ordinance requirements pertaining to building size, and material use.
- d. The development meets other applicable Zoning Ordinance criteria.

Shoreland Overlay District:

- a. The prevention of soil erosion or other possible pollution of public waters, both during and after construction.
- b. The visibility of structures and other facilities as viewed from public waters is limited.
- c. The site is adequate for water supply and on-site sewage treatment.
- d. The types, uses, and numbers of watercraft that the project will generate are compatible in relation to the suitability of public waters to safely accommodate these watercrafts.

WHEREAS, the Sunfish Lake City Council considered the application for major site plan approval at their meeting on June 6, 2023 and agrees with the findings of the Planning Commission.

NOW THEREFORE BE IT RESOLVED THAT the City Council of the City of Sunfish Lake hereby approves the major site plan and building review for 410 Salem Church Road with the following conditions:

1. Construction of the home and all improvements shall occur in substantial conformance with the plans recommended for approval at the May 18, 2023, Planning Commission meeting and the June 6, 2023 City Council meeting.
2. The applicant must obtain all other permits as may be required.
3. The applicant shall comply with all applicable federal, state, and local laws, rules and ordinances.
4. The applicant must adhere to and remain in compliance with the requirements of this Resolution, applicable performance standards, and such other requirements as may apply.
5. All conditions of the site plan review must be complied with, shall run with the land, and shall not in any way be affected by the subsequent sale, lease or other change from current ownership of the Property.
6. This Resolution is subject to the condition that all representations, written and oral, made by the Applicant and its agents and representatives to the City contained in and concerning the Applicant's application for the site plan review must have been true, complete and accurate at the time they were made, and that they remain true and accurate for the duration of the development.
7. By undertaking the activities approved by the requests, the Applicant agrees to all conditions.
8. The improvements to be staked out in the field by the surveyor and reviewed and approved by city staff prior to the start of any construction.
9. All erosion controls identified on the approved plan must be properly installed and inspected by City staff prior to the start of any construction.
10. If site disturbance exceeds one acre, the applicant agrees to apply for a NPDES permit through the MPCA and supply the city with the approved Storm Water Pollution Prevention Plan (SWPPP) and the approved MPCA NPDES permit.

This resolution is adopted by the City Council of the City of Sunfish Lake this 6th day of June, 2023.

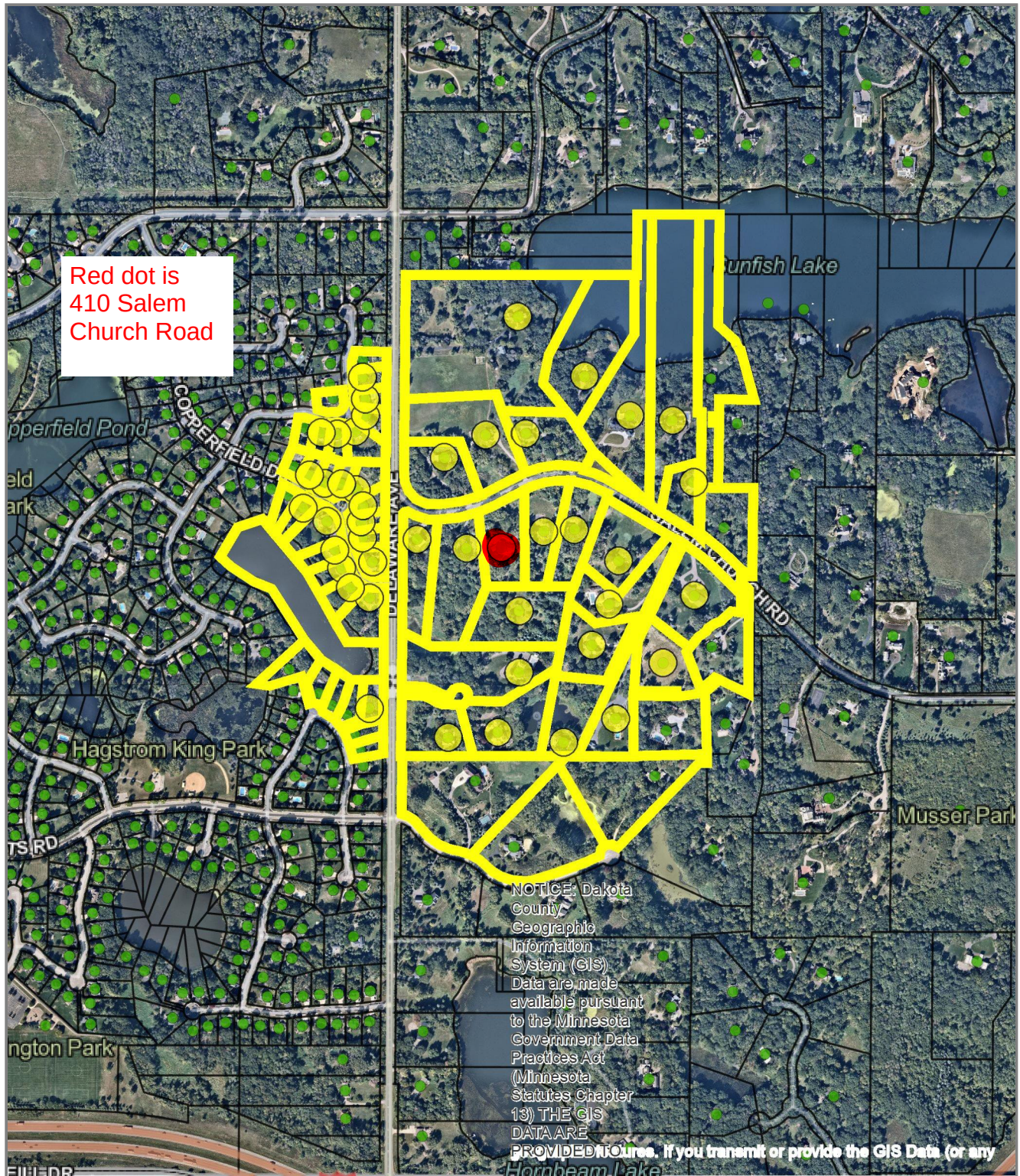
Dan O'Leary, Mayor

Attest:

Christy Wilcox, City Clerk

Yellow Lines are
notification areas

Dakota County, MN



Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed.
This is not a legal document and should not be substituted for a title search, appraisal, survey, or
for zoning verification.

Map Scale
1 inch = 800 feet
4/19/2023

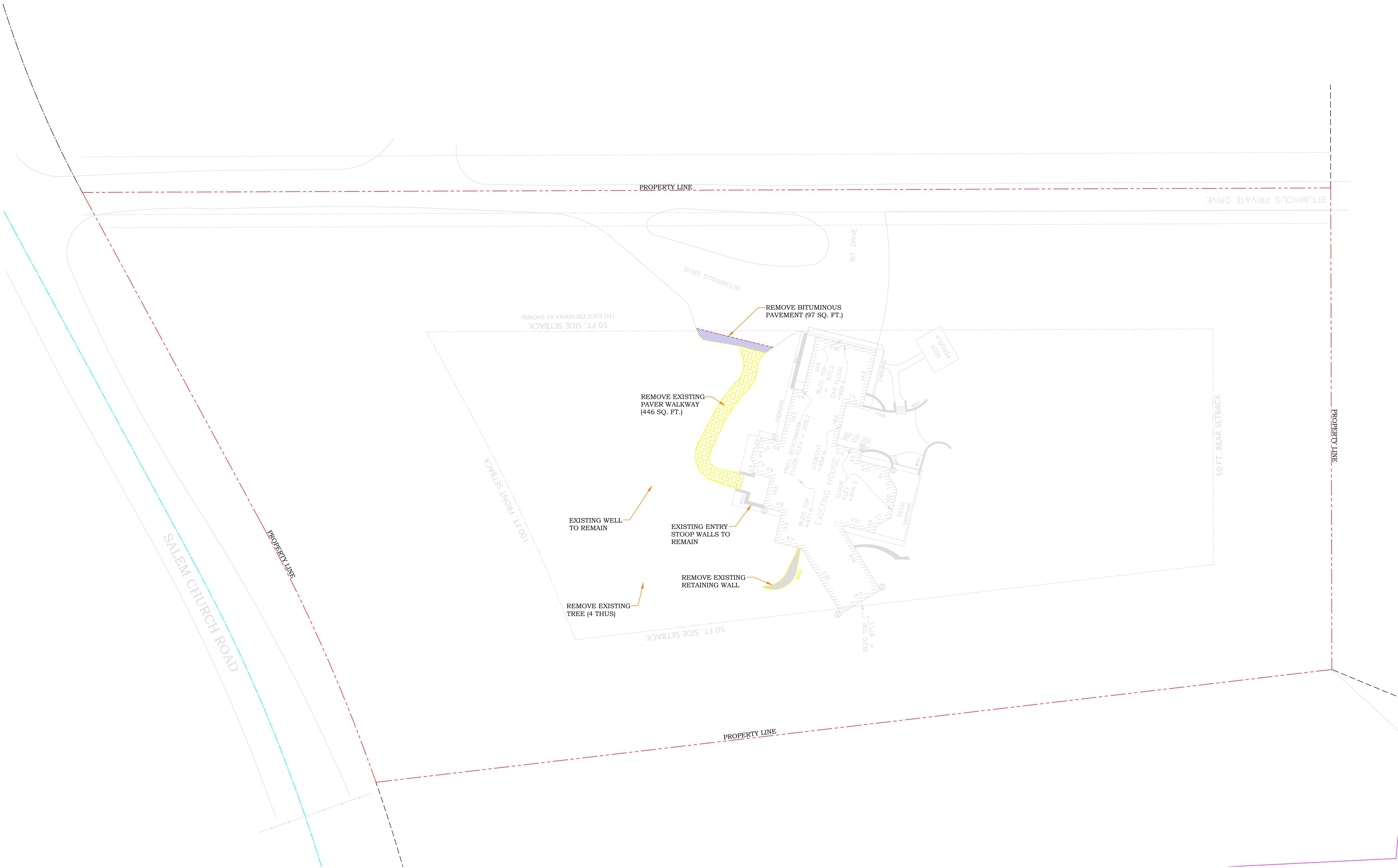
Aerial for 410 Salem Church Road



2. Our house was built in 1968 and though it has been extensively remodeled, it still has a grossly inadequate 1.5 car attached garage. We are applying for a permit to add an approx.. 1,700 sq. ft. addition to the house that will add a mudroom, office space, and adequate garage space to the west side of the house. The bulk of this sq. footage will be additional garage space. The addition will be wood-framed construction built to match the existing house in every way (siding, roof, windows, etc.). This work will include reworking the existing driveway and parking areas and re-landscaping the front of the house. The project does not require a variance or other special considerations beyond what is normally required for a major addition.

TREE REMOVALS

TREE ID	SPECIES	SIZE (DBH)
03	BOXELDER	11
44	GREEN ASH	14
64	WHITE SPRUCE	11
65	WHITE SPRUCE	19
66	WHITE SPRUCE	18
69	BUR OAK	12



SITE REMOVALS PLAN



1
C100

SITE REMOVALS PLAN



1"=20'

C100

410 Salem Church Road
Sunfish Lake, MN 55118



- | | | | |
|---|--|---|---|
| <p>1. All work shall comply with the 2020 International Building Code, The 2020 Minnesota Building Code, the 2020 Minnesota Residential Code and all other applicable and current codes and regulations.</p> <p>2. General contractor shall field verify all conditions prior to commencing work.</p> <p>3. Contractor shall be responsible for obtaining all applicable permits, variances, and approvals for construction prior to commencing work. Permits and approvals shall be displayed on the property throughout construction.</p> <p>4. All contractors shall review building access and construction access routes with building management.</p> <p>5. Work shall be performed in a schedule that allows existing to remain areas to be protected throughout construction.</p> <p>6. Contractor shall notify building management or owner when use of any chemicals or other materials which give off odors are being used.</p> <p>7. Contractor shall furnish material safety data sheets for all materials used.</p> <p>8. All sub-contractors shall visit the jobsite and verify all site conditions prior to commencing work.</p> <p>9. Contractor shall notify architect and owner if there are discrepancies between drawings and actual conditions.</p> <p>10. Contractor shall provide on site restrooms throughout construction.</p> <p>11. Contractor shall not block any means of egress throughout construction.</p> | <p>12. Contractors shall furnish and install all materials and labor to complete the project as shown.</p> <p>13. Contractor shall field verify locations of all site utilities underground cables and piping prior to beginning any demolition and or construction work.</p> <p>14. Contractors shall be responsible for scheduling all required inspections.</p> <p>15. Contractor shall notify city of work schedules and obtain city permission when working outside of normal working hours.</p> <p>16. Contractor shall notify the city prior to working on city streets or sidewalks and obtain all applicable city, state or federal permits and or required approvals.</p> <p>17. All electrical work required to complete the project shall be designed and installed by a licensed electrical design build contractor.</p> <p>18. Electrical design build contractor shall be responsible for coordinating electrical design with architectural, structural, mechanical, and fire suppression design.</p> <p>19. Electrical design build contractor shall be responsible for submitting and obtaining all required electrical inspections and permits.</p> <p>20. Electrical design build contractor shall submit equipment cut sheets for all electrical devices to owner/architect for approval.</p> <p>21. All mechanical work required to complete the project shall be designed and installed by a licensed mechanical design build contractor.</p> <p>22. Mechanical design build contractor shall be</p> | <p>responsible for coordinating mechanical with architectural, structural, electrical, and fire suppression design.</p> <p>23. Mechanical design build contractor shall be responsible for submitting and obtaining all required mechanical inspections and permits.</p> <p>24. Mechanical design build contractor shall submit equipment cut sheets for all mechanical devices to owner/architect for approval.</p> <p>25. Contractor shall provide temporary bracing as required.</p> <p>26. All interior walls shall receive 1 coat primer and 2 finish coats of paint unless noted otherwise.</p> <p>27. All products shall be furnished and installed in accordance with the manufacturers recommended installation and specifications.</p> <p>28. Verify all fixtures, and finishes with tenant prior to installation.</p> <p>29. VERIFY ALL STRUCTURAL MEMBER SIZING AND LOCATIONS WITH STRUCTURAL ENGINEER</p> <p>30. Furnish and install a passive or active radon control system as directed by the Minneapolis building department, building code official or as required by the 2020 Minnesota residential building code</p> <p>31. All new door, window, or finish opening headers shall be minimum (2) 2x10's @ all openings less than 5'-0". Minimum (2) 9 1/2" LVL for openings between 5'-0" and 10'-0" minimum (3) 9 1/2" LVL for all openings larger than 10'-0" (verify with structural engineer)</p> | <p>32. All roof framing shall be pre-engineered and certified by a licensed structural engineer or by the truss manufacturer. provide all supporting documentation to the building department for review.</p> <p>33. ALL WORK NEAR THE EXISTING WELL SHALL BE VERIFIED BY A SOILS ENGINEER AND THE APPROPRIATE WELL WATER CONTRACTORS</p> |
| | | | <p>REVIEWED AND APPROVED PLANS MUST REMAIN ON THE JOB SITE UNTIL FINAL INSPECTION APPROVAL</p> <p>SEPARATE PERMITS REQUIRED FOR ALL TRADE WORK. PLUMBING, MECHANICAL, ELECTRICAL, WARM AIR, ETC.</p> <p>PROPERTY OWNER / CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROOF OF PROPERTY BOUNDARIES BY LOCATING EXISTING PROPERTY MARKERS OR BY HIRING A REGISTERED LAND SURVEYOR</p> |

REVIEWED AND APPROVED PLANS MUST
REMAIN ON THE JOB SITE UNTIL FINAL
INSPECTION APPROVAL

SEPARATE PERMITS REQUIRED FOR ALL
TRADE WORK. PLUMBING, MECHANICAL,
ELECTRICAL, WARM AIR, ETC.

PROPERTY OWNER / CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROOF OF PROPERTY BOUNDARIES BY LOCATING EXISTING PROPERTY MARKERS OR BY HIRING A REGISTERED LAND SURVEYOR



1 SITE LOCATION MAP (AERIAL VIEW)

ISSUED FOR PERMIT
01 / 26 / 2023

15730
16525 Elm Circle
Minnetonka, MN 55345
Phone: (612) 275-2186
Email: prader@nrvizeon.com

Certification:
 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 Architect under the laws of the State of Minnesota.

Signed: 

License #:
 MN Arch License # 41379

Date:
 January 18th, 2023

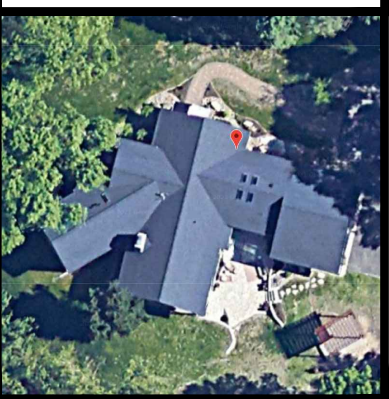
Submitted:
 2021-020

Drawn By:
 P.J.R

Checked By:
 P.J.R

Revision:
 # Date:
 1 01/15/2021 INITIAL REVIEW AND COMMENT
 2 12/15/2021
 3 V-4 REVIEW AND COMMENT
 4 12/30/2021
 5 V-4 REVIEW AND COMMENT
 6 12/31/2021
 7 V-4 REVIEW AND COMMENT
 8 01/12/2022
 9 01/17/2022 V-4 REVIEW AND COMMENT
 10 V-4 REVIEW
 11 01/19/2022 V-4 REVIEW
 12 V-7 PRELIMINARY PRICING
 13 01/19/2022 V-7 PRELIMINARY PRICING
 14 01/19/2022 V-7 PRELIMINARY PRICING
 15 02/02/2022 V-8 PRELIMINARY CITY REVIEW
 16 02/02/2022 (REVISED DESIGN)
 17 03/06/2022 (REVISED DESIGN)
 18 03/06/2022 (REVISED DESIGN)
 19 01/06/2023
 20 V-16 ISSUED FOR PERMIT

Addition & Remodel
Barber Residence
410 Salem Church Road
Sunfish Lake, MN 55118



Sheet Title:

TITLE SHEET

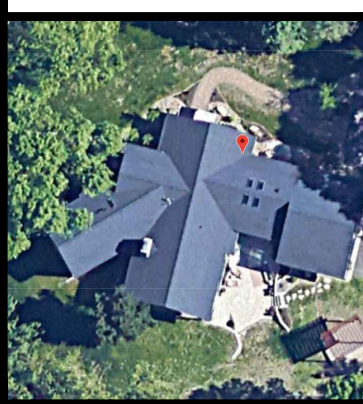
INDEX OF DRAWINGS, SITE MAP

GENERAL NOTES

Sheet Number:

T1.0

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Addition & Remodel
Barber Residence
410 Salem Church Road
Sunfish Lake, MN 55118

NVIZEON
16525 Elm Circle
Minnetonka, MN 55345
Phone: (612) 275-2186
Email: prader@nviceon.com

Certification:
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 Architect under the laws of the State of Minnesota.

Signed:

License #:
MN Arch License # 41379

Date:
January 18th, 2023

Commission:
2021-020

Drawn By:
PJR

Checked By:
PJR

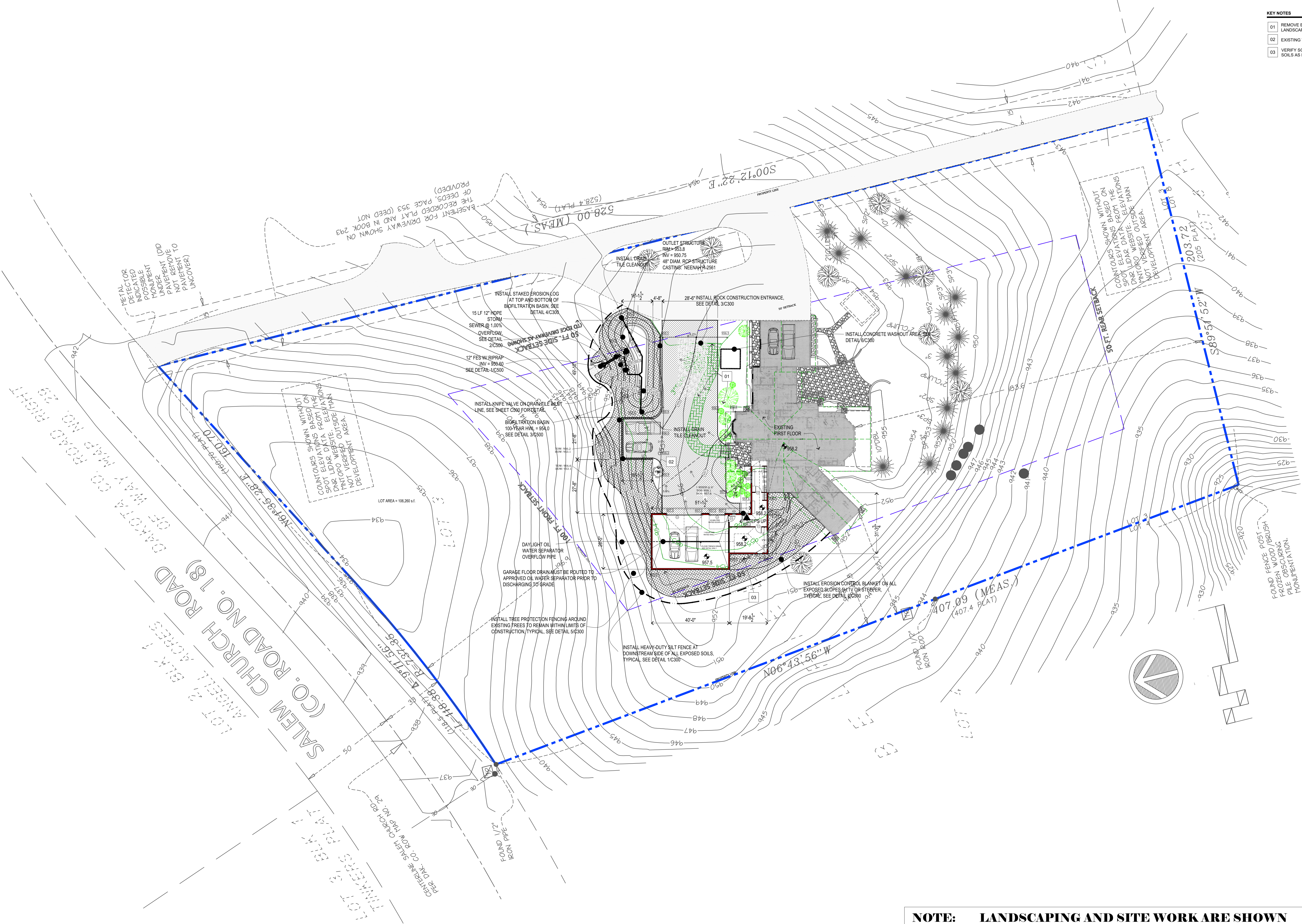
Revision:
Date:

1	12/14/2021	INITIAL REVIEW AND COMMENT
2	12/15/2021	V-2 REVIEW AND COMMENT
3	12/20/2021	V-3 REVIEW AND COMMENT
4	12/20/2021	V-4 REVIEW AND COMMENT
5	01/12/2022	V-5 REVIEW AND COMMENT
6	01/17/2022	V-6 REVIEW AND COMMENT
7	01/19/2022	V-7 PRELIMINARY PRICING SET
8	02/21/2022	V-8 PRELIMINARY PRICING SET
9	05/12/2022	V-9 PRELIMINARY CITY REVIEW
10	08/02/2022	REVISED DESIGN
11	12/12/2022	V-12 PRELIMINARY REVIEW
12	12/06/2022	REVISED DESIGN
13	01/05/2023	V-13 PRELIMINARY REVIEW
14	01/16/2023	V-16 ISSUED FOR PERMIT

- GENERAL NOTES**

 1. VERIFY ALL STRUCTURAL COMPONENTS WITH STRUCTURAL ENGINEER PRIOR TO FABRICATION OR INSTALLATION
 2. VERIFY ALL DIMENSIONS IN FIELD
 3. VERIFY ALL SOIL CONDITIONS PRIOR TO COMMENCING ANY WORK
 4. ALL NEW FINISHES TO BE VERIFY WITH HOME OWNER AND INTERIOR DESIGNER. MATCH EXISTING DOOR & WINDOW TRIM AND WALL BASE DETAILS
 5. VERIFY SCOPE OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK WITH OWNERS
- KEY NOTES**

01	REMOVE EXISTING PAVERS, HARDSCAPING, RETAINING WALLS AND LANDSCAPING AS REQUIRED FOR NEW WORK
02	EXISTING WELL TO REMAIN PROTECT THROUGHOUT CONSTRUCTION
03	VERIFY SOILS CONDITION AT PROPOSED NEW ADDITION AUGMENT SOILS AS REQUIRED TO ACHIEVE SUITABLE BEARING CONDITIONS



Addition & Remodel
Barber Residence
410 Salem Church Road
Sunfish Lake, MN 55118

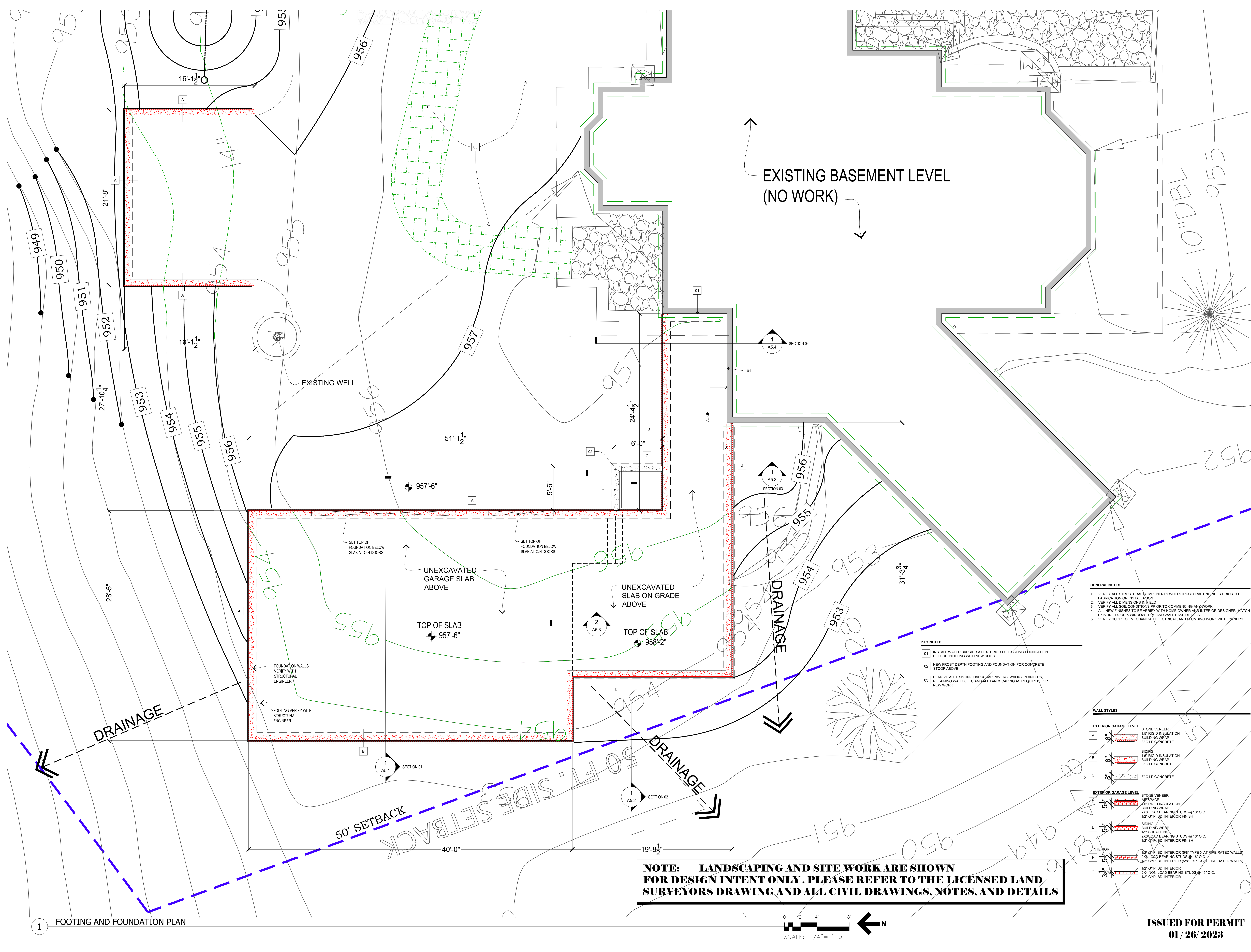


Sheet Title:
**PROPOSED
FOOTING AND FOUNDATION PLAN**

Sheet Number:

A2.1

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EXISTING BASEMENT LEVEL
(NO WORK)

1
A5.4
SECTION 04

1
A5.3
SECTION 03

2
A5.3

1
A5.2
SECTION 02

1
A5.1
SECTION 01

957'-6"

958'-2"

957'-6"

957'-6"

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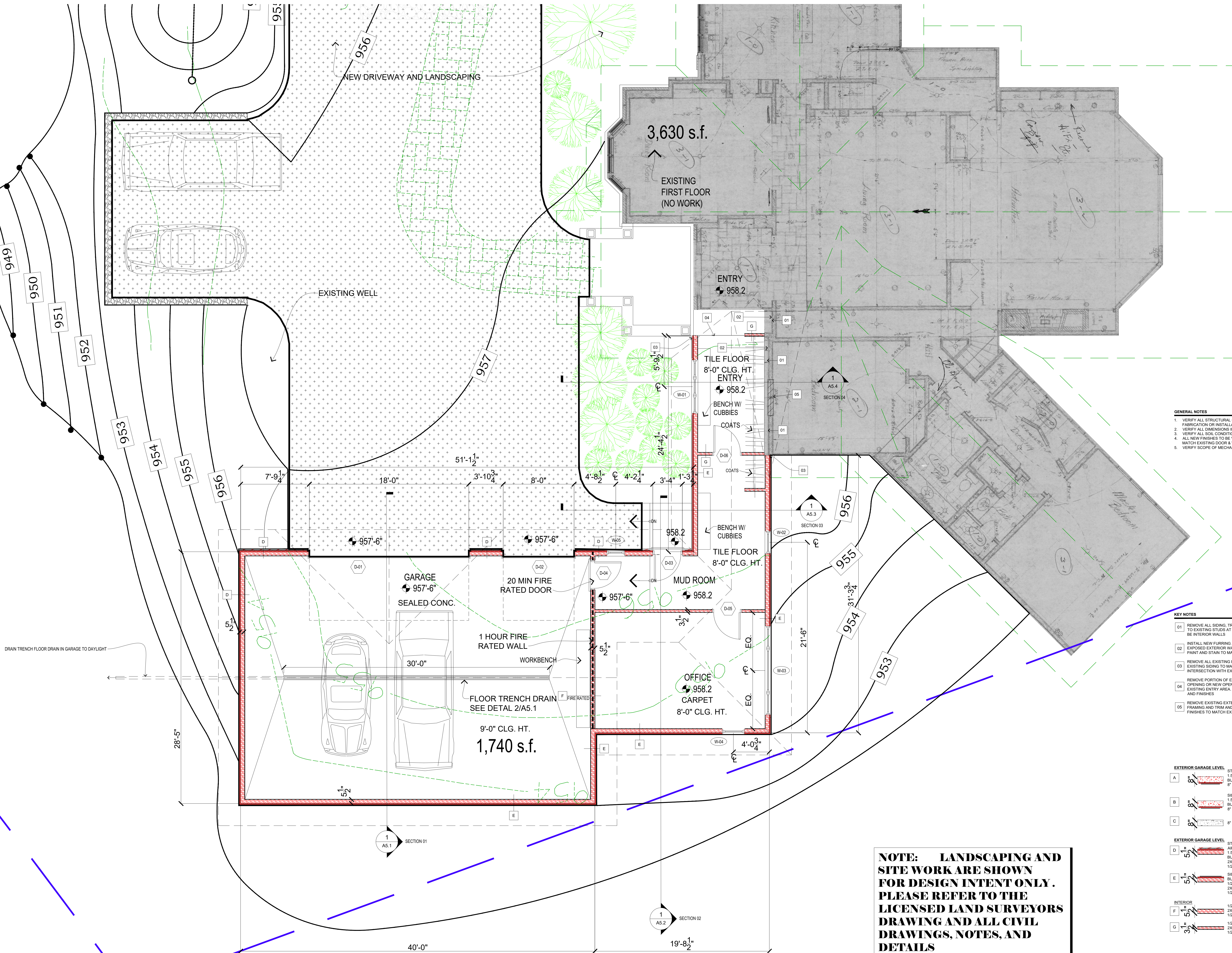
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1	12/14/2021	INITIAL REVIEW AND COMMENT
2	12/15/2021	V-2 REVIEW AND COMMENT
3	12/20/2021	V-3 REVIEW AND COMMENT
4	12/20/2021	V-4 REVIEW AND COMMENT
5	01/12/2022	V-5 REVIEW AND COMMENT
6	01/17/2022	V-6 REVIEW AND COMMENT
7	01/19/2022	V-7 PRELIMINARY PRICING SET
8	02/21/2022	V-8 PRELIMINARY PRICING SET
9	05/12/2022	V-9 PRELIMINARY CITY REVIEW
10	08/02/2022	V-10 REVISED DESIGN
11	12/12/2022	V-11 PRELIMINARY REVIEW
12	12/06/2022	V-12 REVISED DESIGN
13	01/05/2023	V-13 PRELIMINARY REVIEW
14	01/05/2023	V-14 ISSUED FOR PERMIT



GENERAL NOTES

1. VERIFY ALL STRUCTURAL COMPONENTS WITH STRUCTURAL ENGINEER PRIOR TO FABRICATION OR INSTALLATION.
2. VERIFY ALL DIMENSIONS IN FIELD.
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KEY NOTES

- 01 REMOVE ALL SIDING, TRIM AND EXTERIOR FINISH MATERIALS DOWN TO EXISTING STUDS AT EXISTING EXTERIOR WALLS THAT WILL NOW BE INTERIOR WALLS.
- 02 INSTALL NEW FURRING AND NEW 1/2" PAINTED GYP. BD. AT NEWLY EXPOSED EXTERIOR WALLS. INSTALL WALL BASE AND TRIM AND PAINT AND STAIN TO MATCH EXISTING ADJACENT SURFACES.
- 03 REMOVE ALL EXISTING EXTERIOR CORNER TRIM AND PATCH EXISTING SIDING TO MATCH AS REQUIRED AT NEW EXTERIOR INTERSECTION WITH EXISTING EXTERIOR.
- 04 REMOVE PORTION OF EXISTING EXTERIOR WALL FOR NEW ARCHED OPENING OR NEW OPENING BETWEEN NEW ENTRY AREA AND EXISTING ENTRY AREA. MATCH FLOOR, WALL, AND CEILING HEIGHTS AND FINISHES.
- 05 REMOVE EXISTING EXTERIOR WINDOW AND ALL ASSOCIATED FRAMING AND TRIM AND INFILL OPENING WITH NEW FRAMING AND FINISHES TO MATCH EXISTING.

EXTERIOR GARAGE LEVEL

A

B

C

EXTERIOR GARAGE LEVEL

D

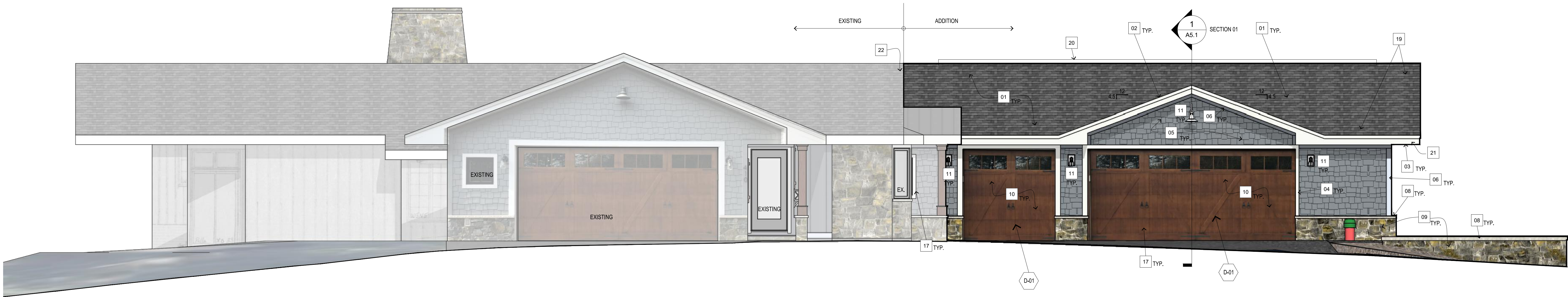
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INTERIOR

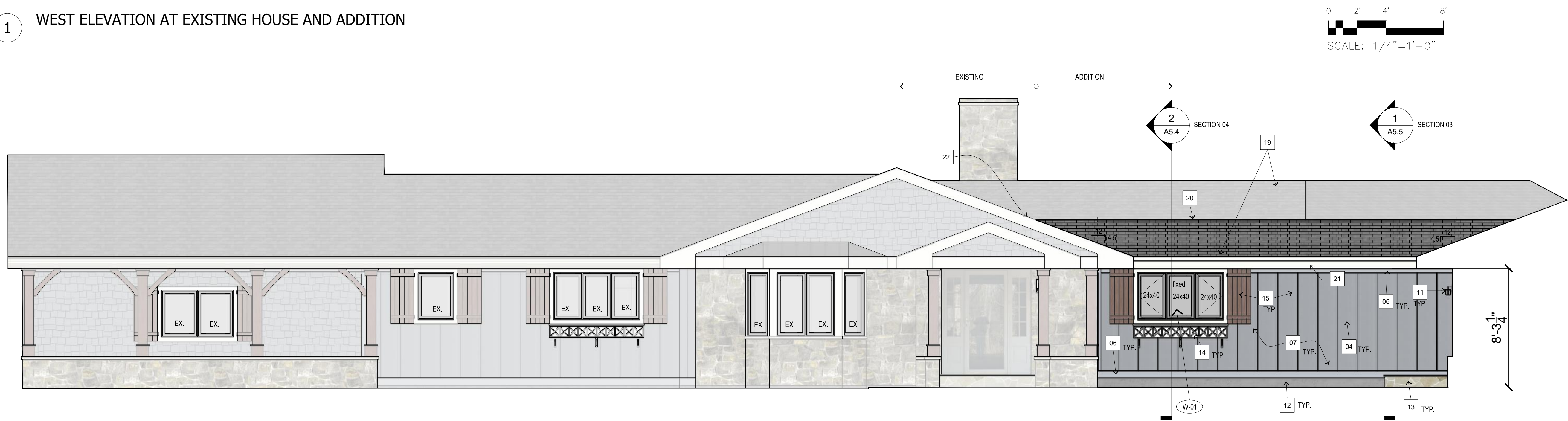
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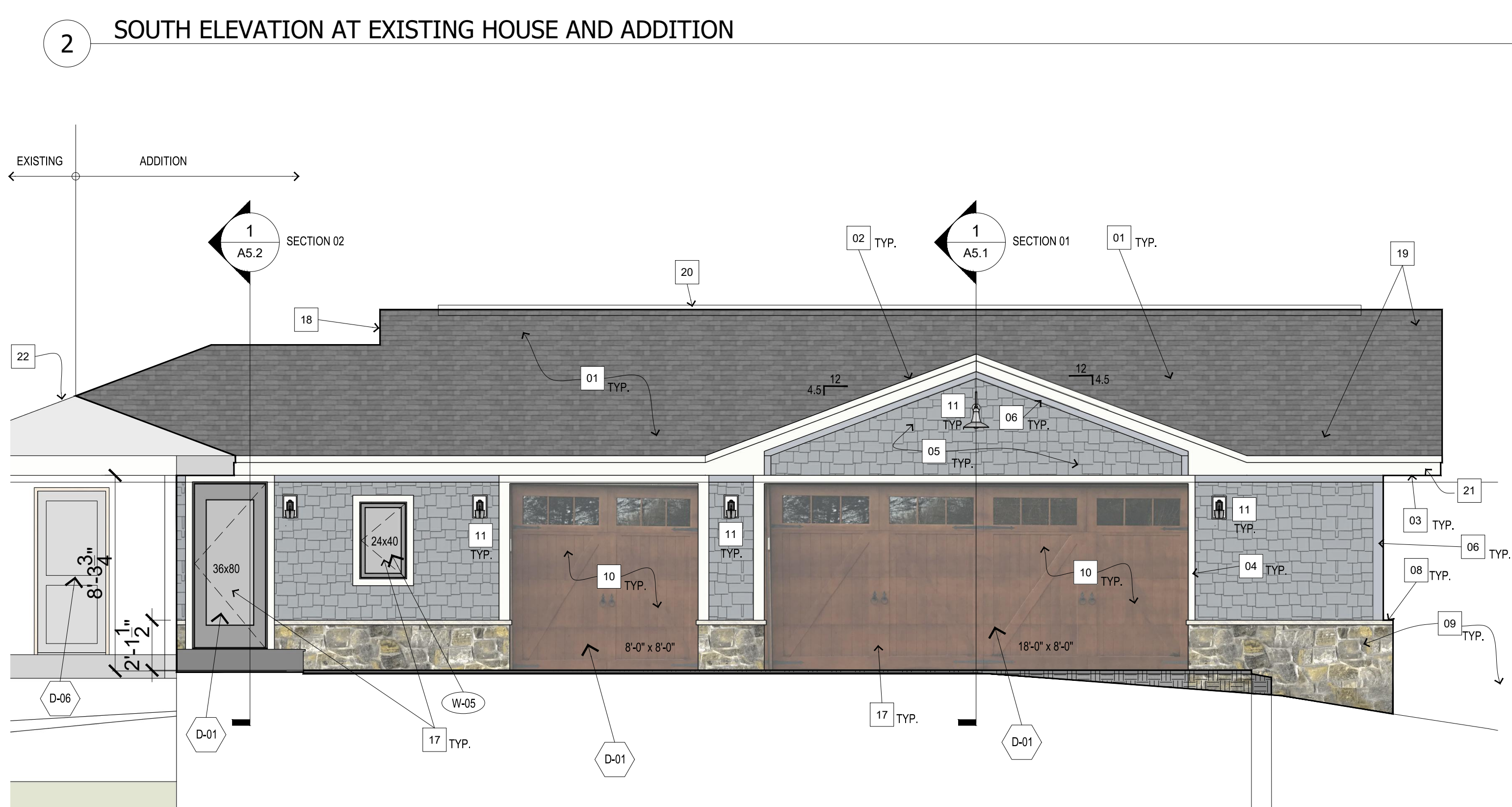
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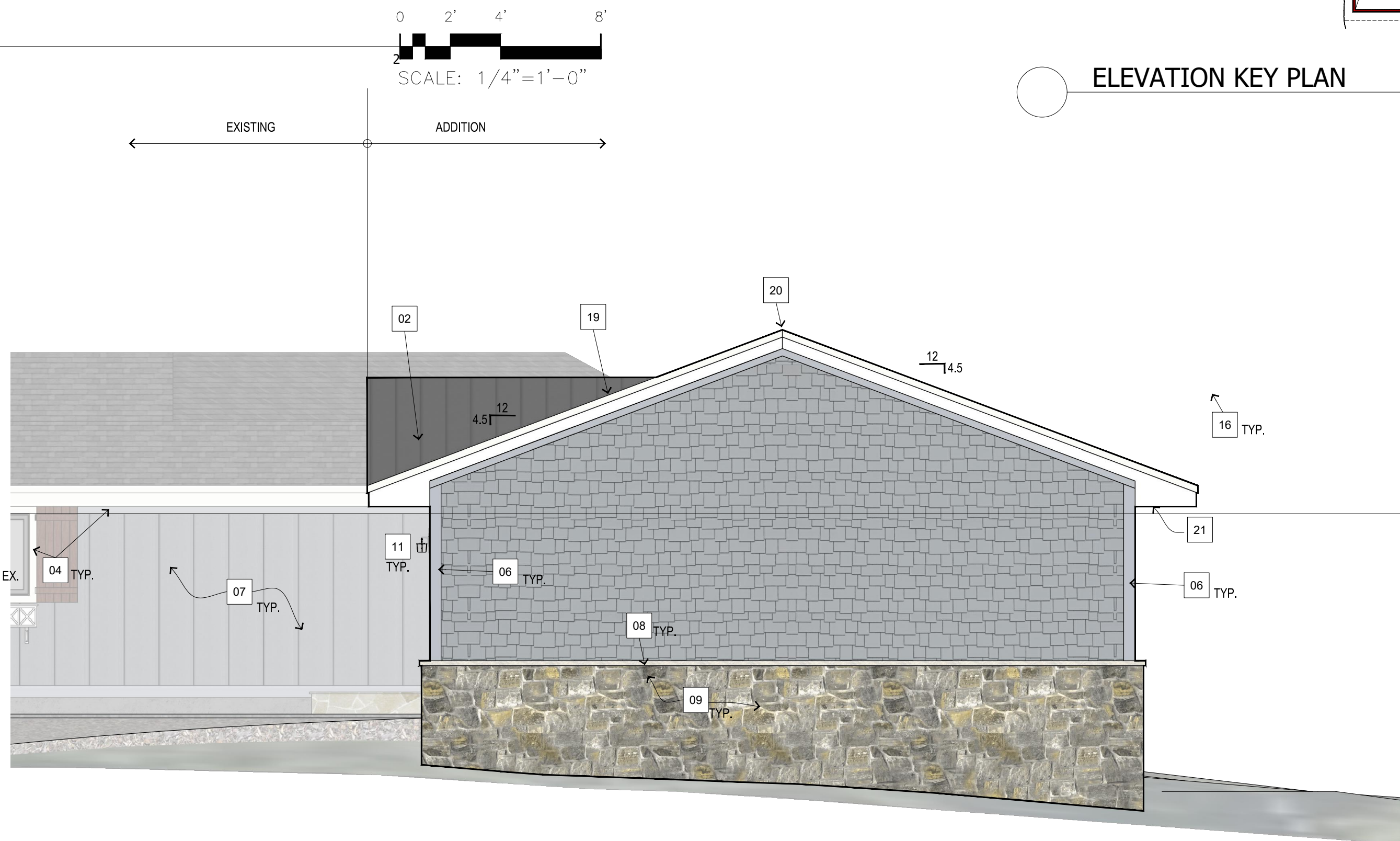
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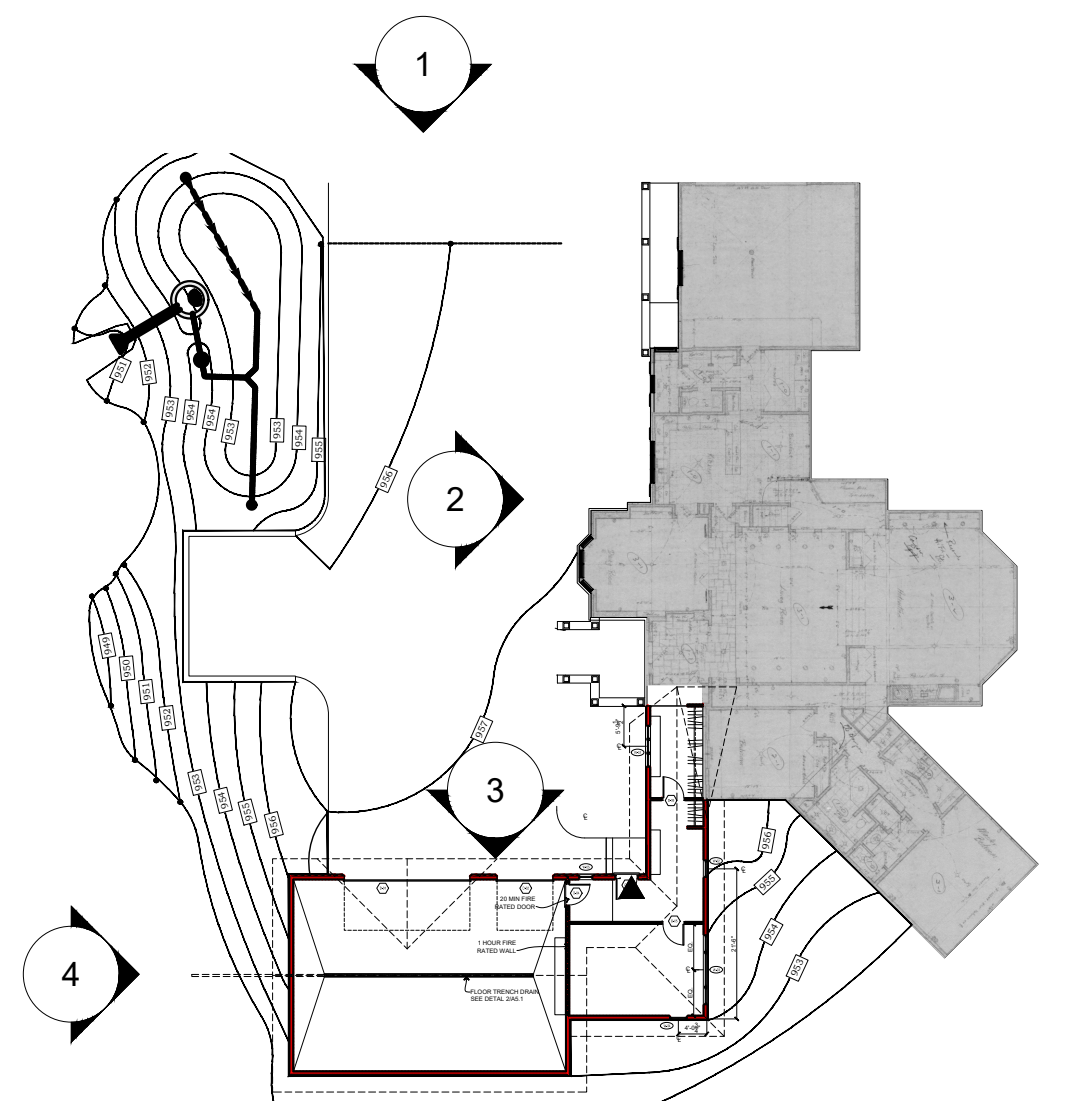
2 SOUTH ELEVATION AT EXISTING HOUSE AND ADDITION



3 WEST ELEVATION AT ADDITION



4 SOUTH ELEVATION AT ADDITION



ELEVATION KEY PLAN

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- 22 REMOVE PORTION OF EXISTING ROOFING DOWN TO SHEATHING TO INSTALL NEW MEMBRANE FLASHING AND NEW ROOFING AS REQUIRED

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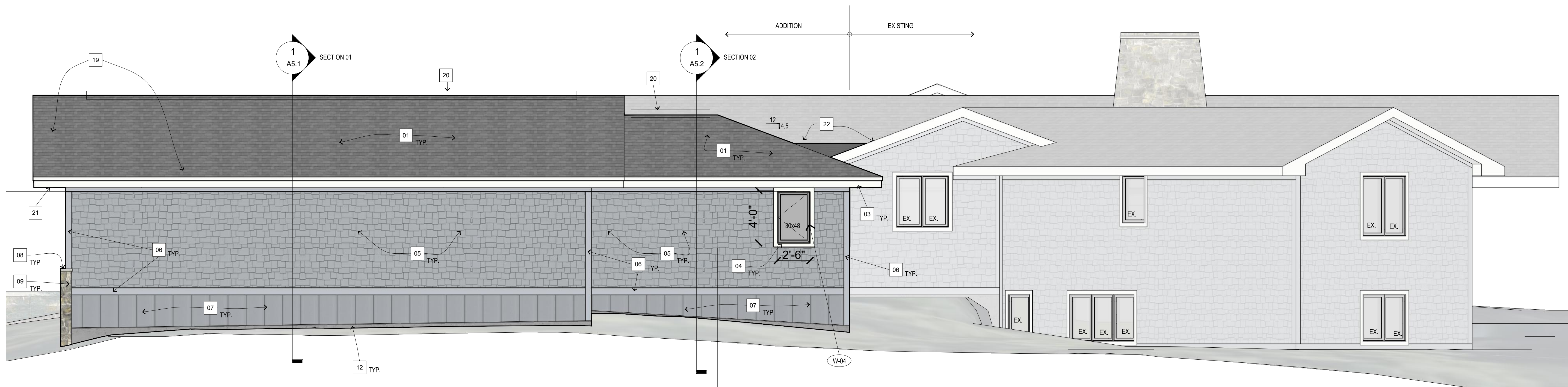
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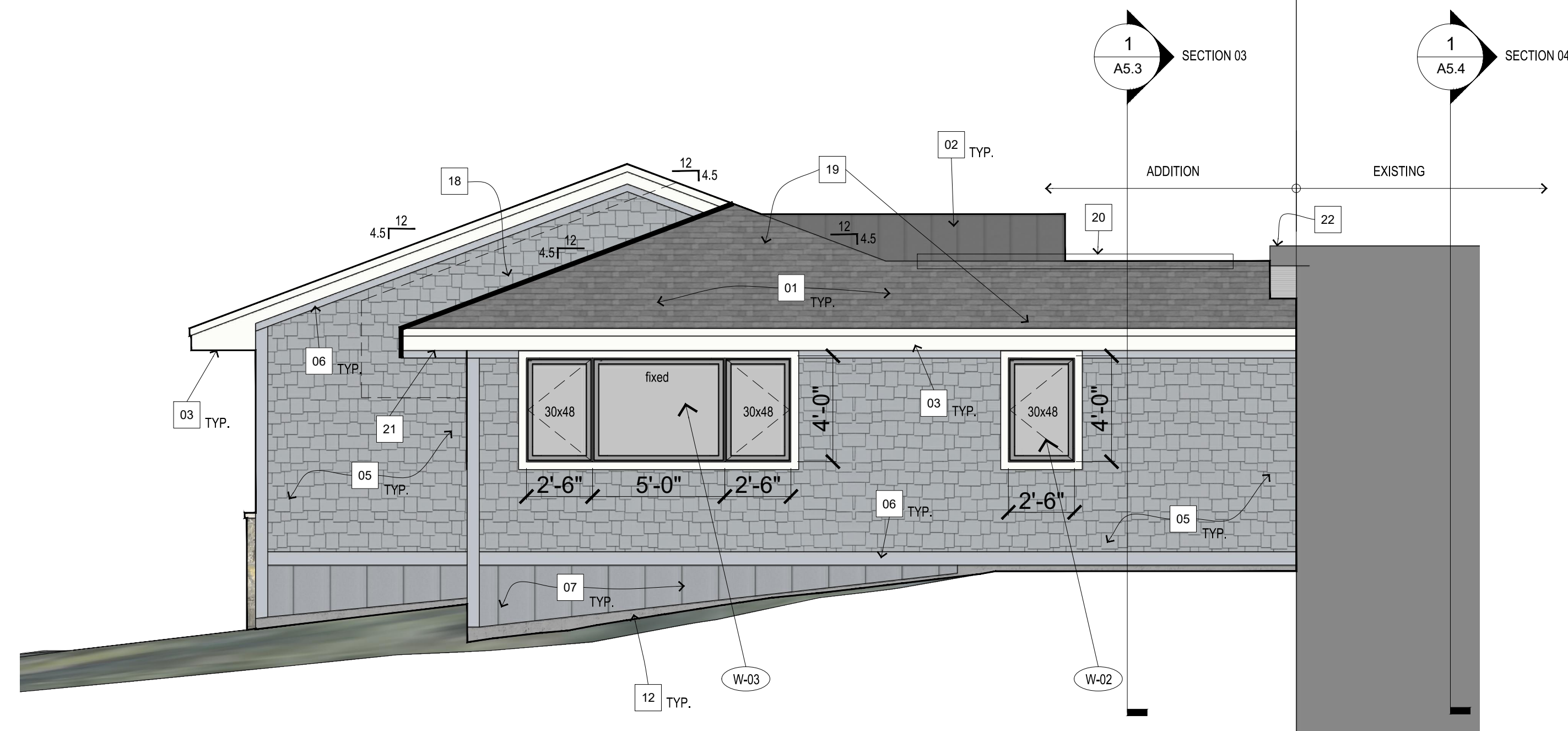
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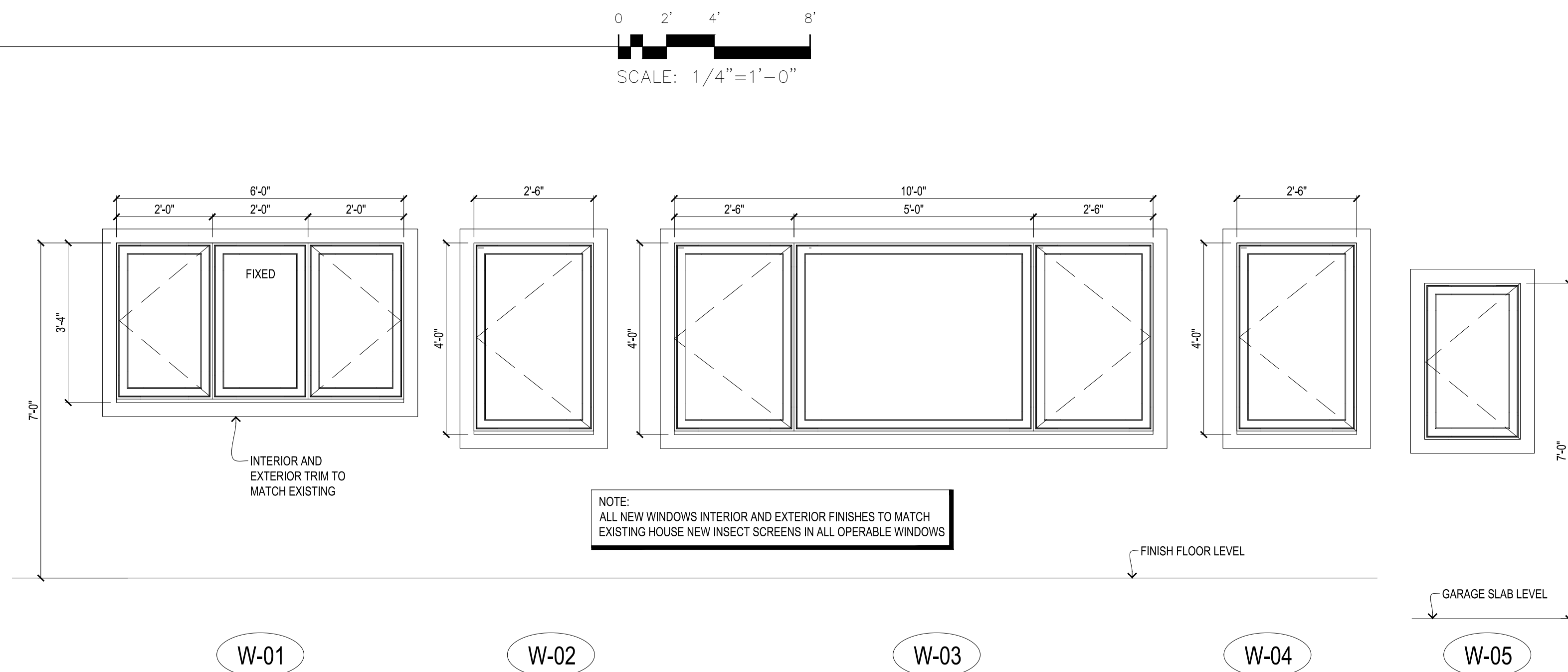
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1 SOUTH ELEVATION AT ADDITION



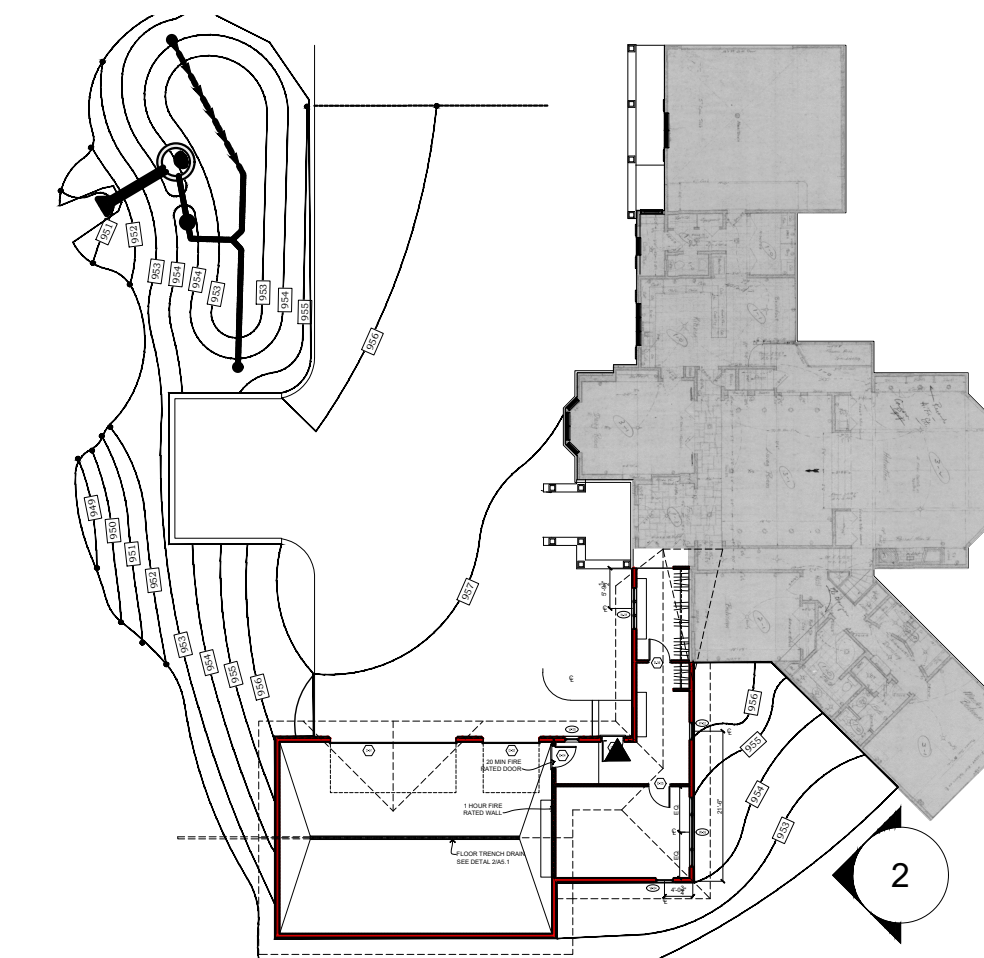
2 WEST ELEVATION AT EXISTING HOUSE AND ADDITION



3 WINDOW SCHEDULE



3 DOOR SCHEDULE



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V-22 PRELIMINARY REVIEW

Addition & Remodel
Barber Residence
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Sheet Title:
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EXTERIOR ELEVATIONS

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1 PERSPECTIVE VIEW 01



3 PERSPECTIVE VIEW 03



5 PERSPECTIVE VIEW 05



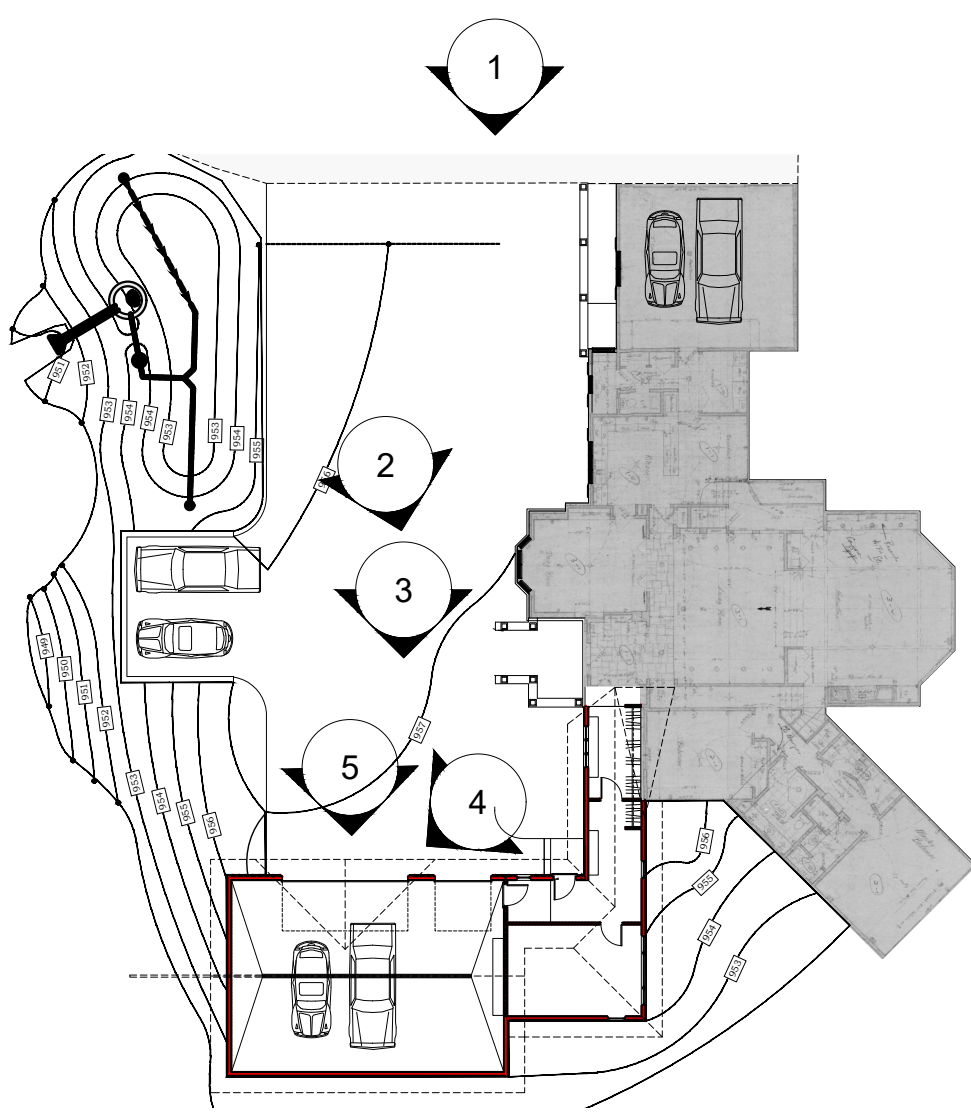
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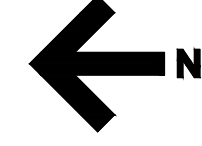
4 PERSPECTIVE VIEW 04

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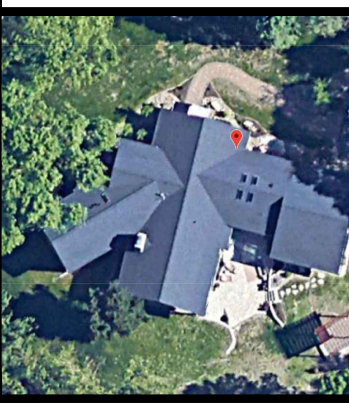
VIEW KEY PLAN



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Addition & Remodel
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**EXISTING & PROPOSED
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1 PERSPECTIVE VIEW 06



3 PERSPECTIVE VIEW 08



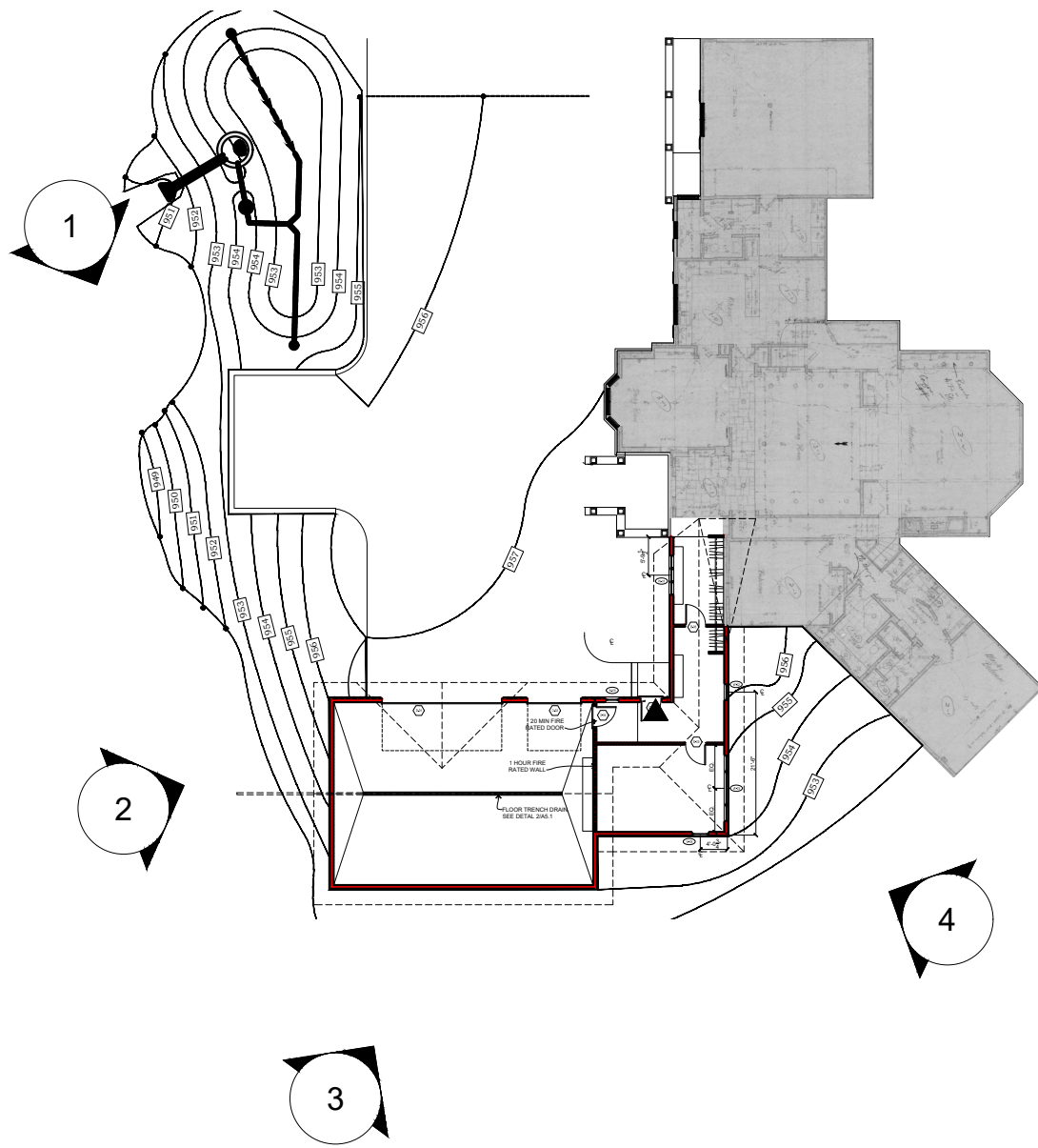
2 PERSPECTIVE VIEW 07



4 PERSPECTIVE VIEW 09

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Addition & Remodel

Barber Residence

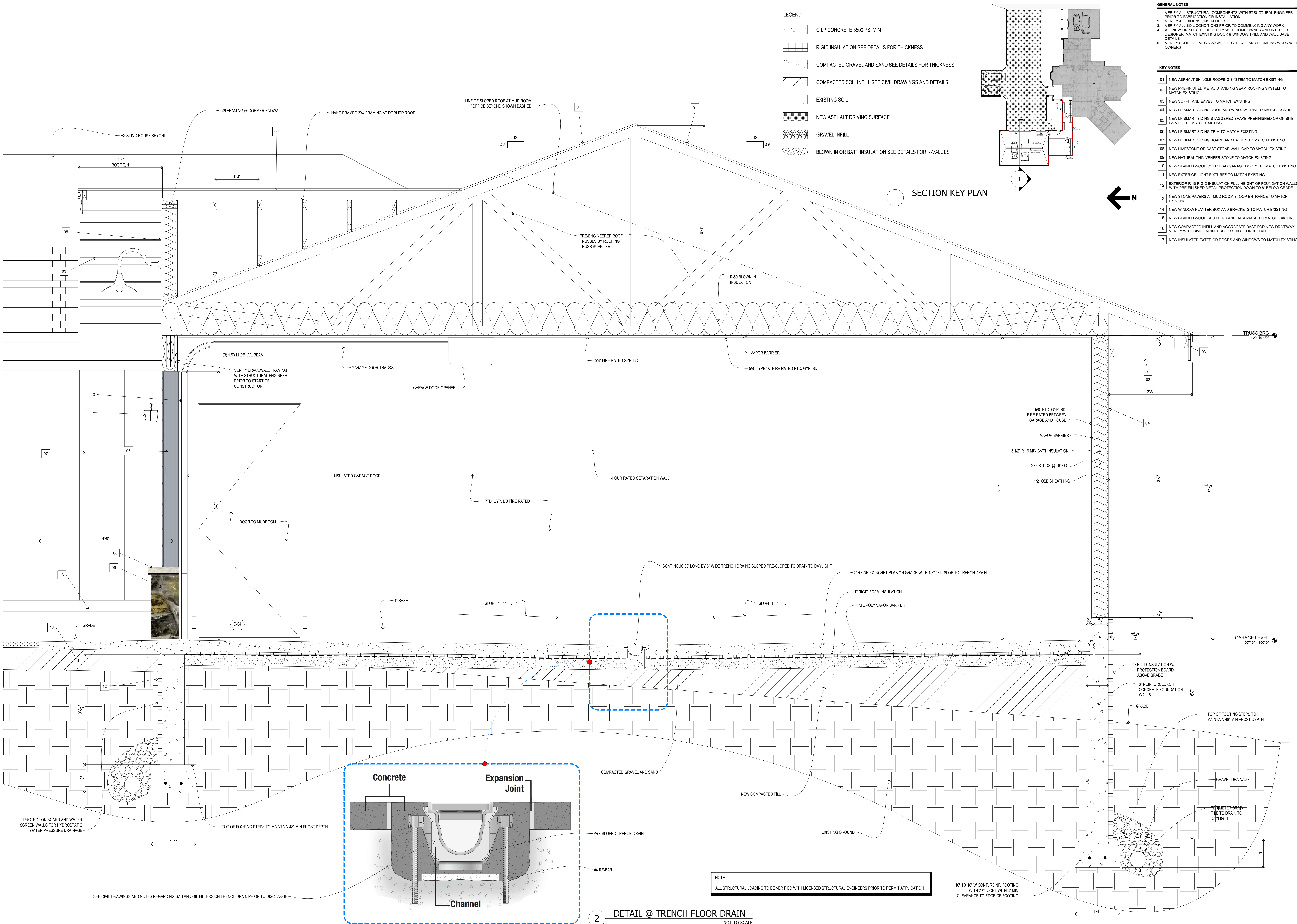
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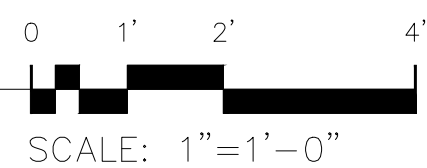
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1 BUILDING SECTION 01 @ GARAGE

2 DETAIL @ TRENCH FLOOR DRAIN
NOT TO SCALE



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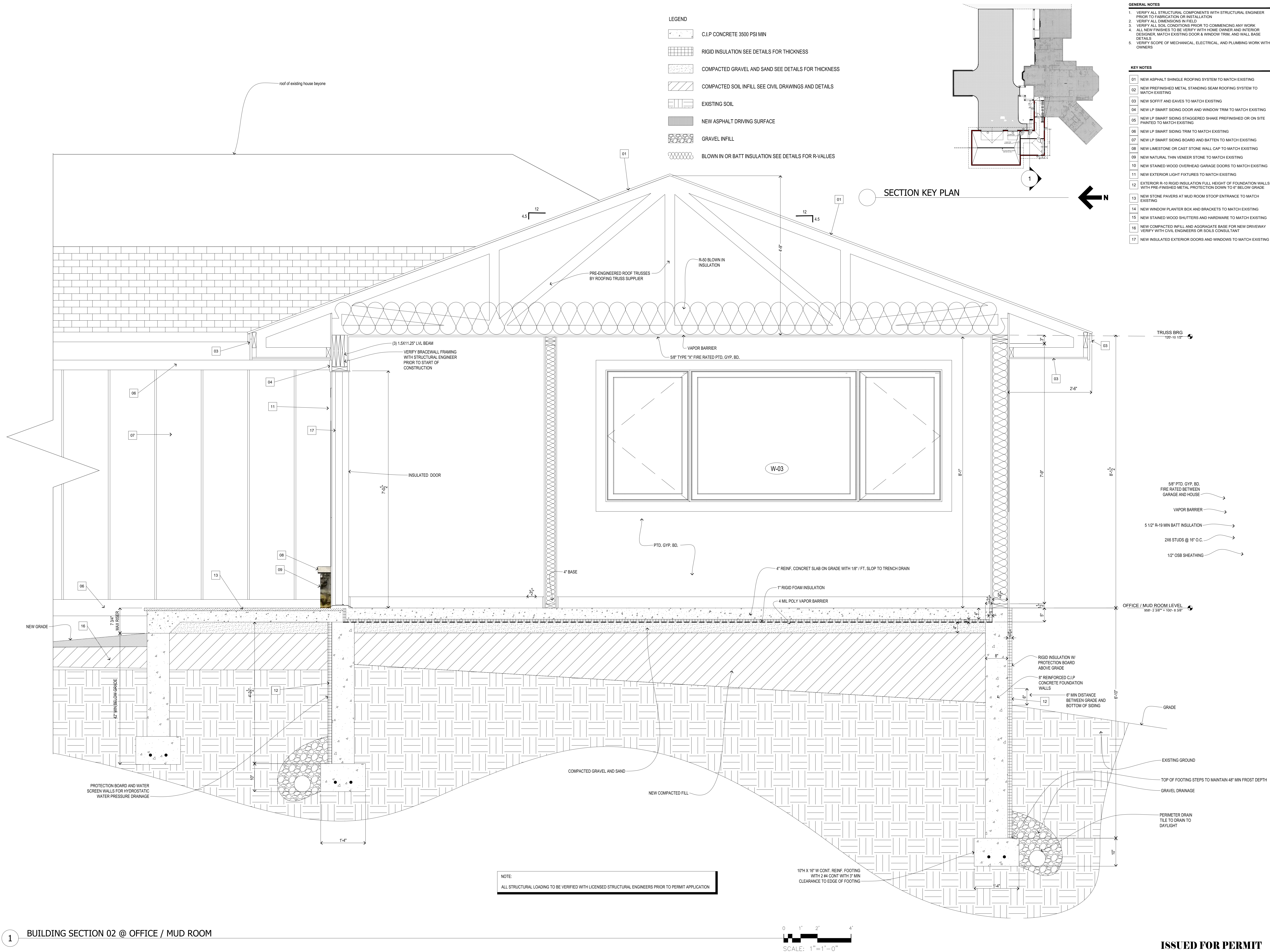
**BUILDING SECTION 01
@ GARAGE**

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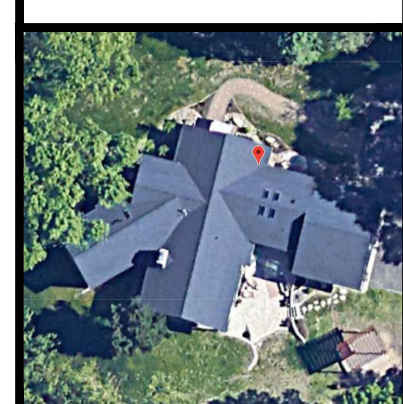
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Sunfish Lake, MN 55118



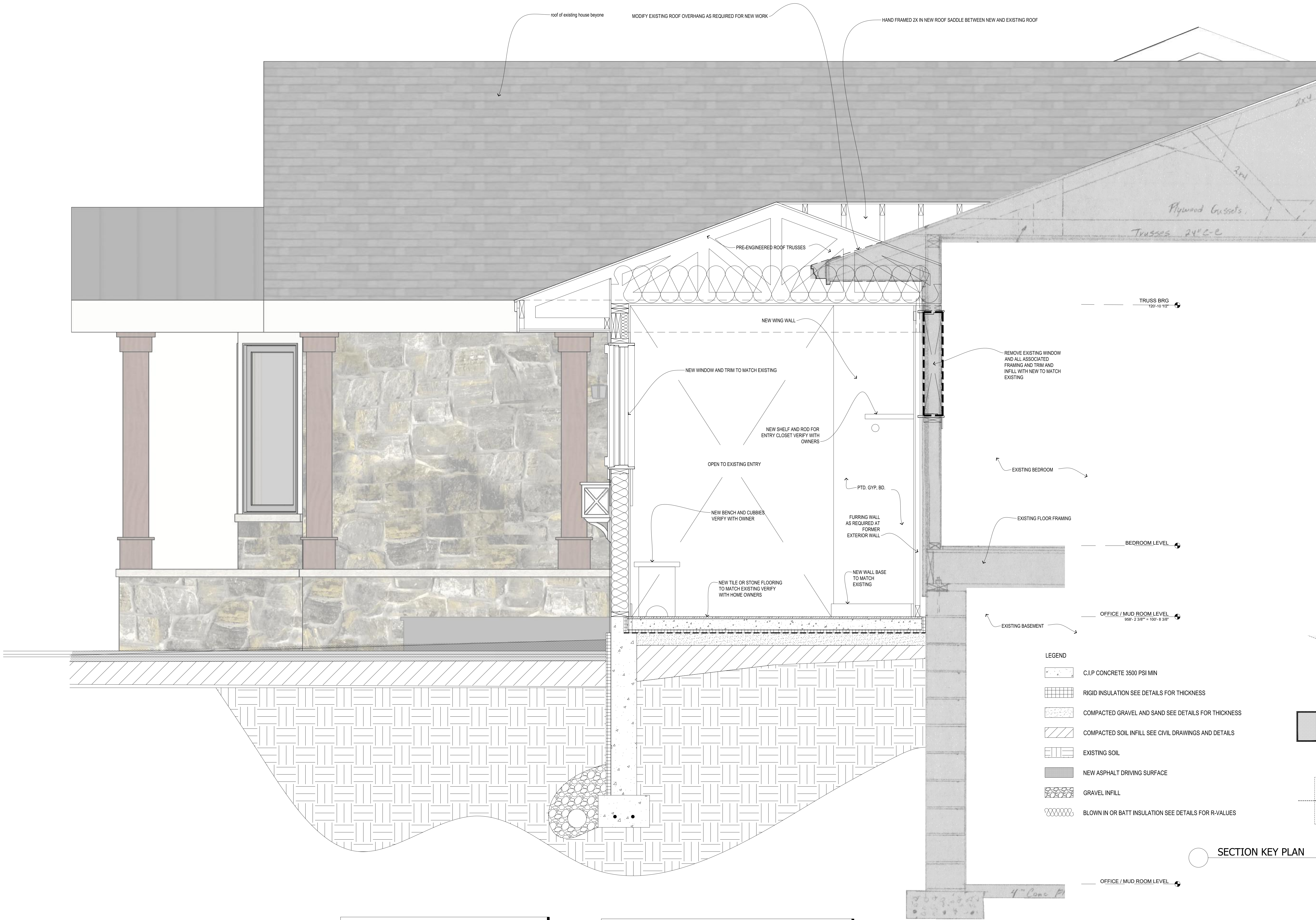
Sheet Title:

**BUILDING SECTION 02
@ OFFICE / MUD ROOM**

Sheet Number:

A5.2

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SEE DRAWING I/A5.3
FOR ADDITIONAL NOTES

NOTE:
ALL STRUCTURAL LOADING TO BE VERIFIED WITH LICENSED STRUCTURAL ENGINEERS PRIOR TO PERMIT APPLICATION

- GENERAL NOTES
1. VERIFY ALL STRUCTURAL COMPONENTS WITH STRUCTURAL ENGINEER PRIOR TO FABRICATION OR INSTALLATION
 2. VERIFY ALL DIMENSIONS IN FIELD
 3. VERIFY ALL SOIL CONDITIONS PRIOR TO COMMENCING ANY WORK
 4. ALL NEW FINISHES TO BE VERIFIED WITH HOME OWNER AND INTERIOR DESIGNER. MATCH EXISTING DOOR & WINDOW TRIM, AND WALL BASE DETAILS
 5. VERIFY SCOPE OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK WITH OWNERS

- KEY NOTES
- 01 NEW ASPHALT SHINGLE ROOFING SYSTEM TO MATCH EXISTING
 - 02 NEW PREFINISHED METAL STANDING BEAM ROOFING SYSTEM TO MATCH EXISTING
 - 03 NEW SOFFIT AND EAVES TO MATCH EXISTING
 - 04 NEW LP SMART SIDING DOOR AND WINDOW TRIM TO MATCH EXISTING
 - 05 NEW LP SMART SIDING STAGGERED SHAKE PREFINISHED OR ON SITE PAINTED TO MATCH EXISTING
 - 06 NEW LP SMART SIDING TRIM TO MATCH EXISTING
 - 07 NEW LP SMART SIDING BOARD AND BATTEN TO MATCH EXISTING
 - 08 NEW LIMESTONE OR CAST STONE WALL CAP TO MATCH EXISTING
 - 09 NEW NATURAL THIN VENEER STONE TO MATCH EXISTING
 - 10 NEW STAINED WOOD OVERHEAD GARAGE DOORS TO MATCH EXISTING
 - 11 NEW EXTERIOR LIGHT FIXTURES TO MATCH EXISTING
 - 12 EXTERIOR R-10 RIGID INSULATION FULL HEIGHT OF FOUNDATION WALLS WITH PRE-FINISHED METAL PROTECTION DOWN TO 8" BELOW GRADE
 - 13 NEW STONE PAVERS AT MUD ROOM STOOP ENTRANCE TO MATCH EXISTING
 - 14 NEW WINDOW PLANTER BOX AND BRACKETS TO MATCH EXISTING
 - 15 NEW STAINED WOOD SHUTTERS AND HARDWARE TO MATCH EXISTING
 - 16 NEW COMPACTED INFILL AND AGGREGATE BASE FOR NEW DRIVEWAY VERIFY WITH CIVIL ENGINEERS OR SOILS CONSULTANT
 - 17 NEW INSULATED EXTERIOR DOORS AND WINDOWS TO MATCH EXISTING

INVIZEON
16525 Elm Circle
Minnetonka, MN 55345
Phone: (612) 275-2186
Email: prader@invizeon.com

Certification:
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 Architect under the laws of the State of Minnesota.

Signed:

License #:
MN Arch License # 41379

Date:
January 18th, 2023

Commission:
2021-020

Drawn By:
PJR

Checked By:
PJR

Revision:

#	Date:
1	12/14/2021 INITIAL REVIEW AND COMMENT
2	12/15/2021 V-2 REVIEW AND COMMENT
3	12/20/2021 V-3 REVIEW AND COMMENT
4	1/3/2022 V-4 REVIEW AND COMMENT
5	01/12/2022 V-5 REVIEW AND COMMENT
6	01/17/2022 V-6 REVIEW AND COMMENT
7	01/19/2022 V-7 PRELIMINARY PRICING SET
8	02/21/2022 V-8 PRELIMINARY PRICING SET
9	05/12/2022 V-9 PRELIMINARY CITY REVIEW
10	08/02/2022 PRELIMINARY DESIGN
12	V-12 PRELIMINARY REVIEW
13	12/06/2022 REVISED DESIGN
14	01/05/2023 V-15 PRELIMINARY REVIEW
14	V-16 ISSUED FOR PERMIT

Addition & Remodel

Barber Residence
410 Salem Church Road
Sunfish Lake, MN 55118

Sheet Title:

**BUILDING SECTION 04
@ ENTRY AREA**

Sheet Number:

A5.4

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BARBER RESIDENCE

410 SALEM CHURCH ROAD
SUNFISH LAKE, MINNESOTA

GRADING, STORMWATER MANAGEMENT AND EROSION CONTROL PLANS

PIERCE PINI &
ASSOCIATES, INC.
Consulting Civil Engineers

9298 CENTRAL AVENUE NE
SUITE 312
BLAINE, MN 55434
TEL 763-537-1311

BARBER RESIDENCE

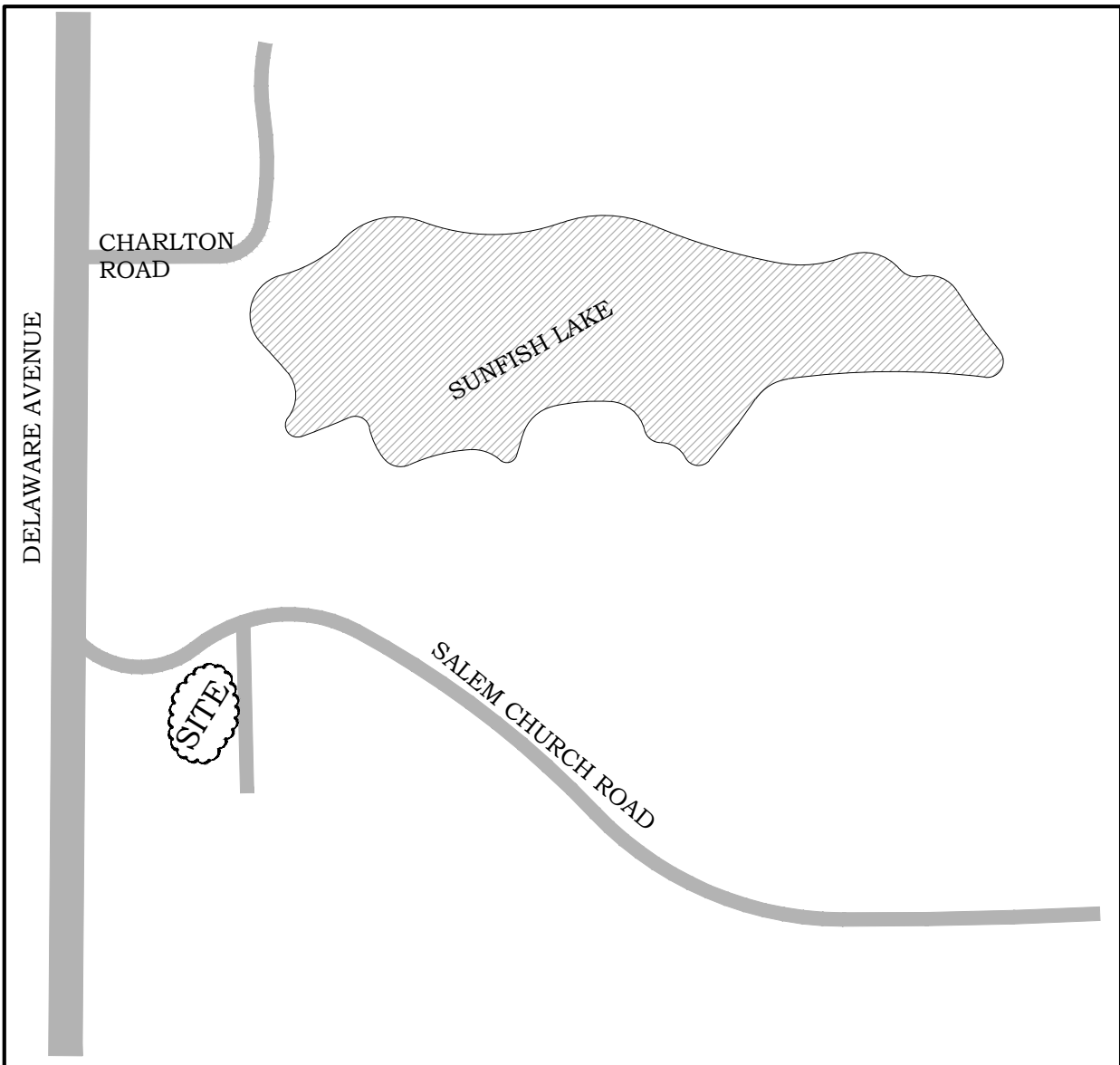
410 SALEM CHURCH ROAD
SUNFISH LAKE, MINNESOTA

CONSTRUCTION NOTES

- ALL EXISTING INFORMATION AND PROPOSED SITE IMPROVEMENTS TAKEN FROM CERTIFICATE OF SURVEY BY CORNERSTONE LAND SURVEYING, DATED OCTOBER 18, 2021.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM BEING TRANSPORTED OFF-SITE IN AN UNCONTROLLED MANNER. SEDIMENT DISCOVERED SHALL BE REMOVED BY CONTRACTOR WITHIN 7 DAYS OF DISCOVERY.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CITY OF SUNFISH LAKE AND STATE OF MINNESOTA REGULATIONS AND STANDARDS.
- EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATER MAIN. CONTRACTOR TO CONTACT THE GOPHER STATE ONE CALL BEFORE EXCAVATING.
- CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO STORE AND PROTECT EXISTING SITE FEATURES WHICH NEED TO BE REMOVED AND REPLACED. CONTRACTOR TO PREVENT DAMAGE OR THEFT OF THESE ITEMS AND TO REPAIR AND REPLACE AT OWN EXPENSE.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S DRAWINGS TO VERIFY LOCATION, SIZE AND QUANTITY OF ALL ROOF DRAINS AND UTILITY CONNECTIONS.
- PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS", CURRENT EDITION.
- DRAWINGS DO NOT INDICATE AREAS OF TEMPORARY SUPPORT SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS AND WILL HAVE TOTAL CONTROL OVER THE TYPES AND DESIGN OF ALL SHORING, SHEETING, BRACING, ANCHORAGES, EXCAVATION SUPPORT WALLS, DIRECTIONAL BORING, AUGER JACKING, SOIL STABILIZATION AND OTHER METHODS OF PROTECTING EXISTING IMPROVEMENTS. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.
- ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS DIRECT FROM THE FACTORY AND FREE FROM DEFECTS.
- WHEN WORKING AROUND EXISTING UTILITIES, LIGHT POLES, TRAFFIC SIGNALS, TELEPHONE OR POWER POLES, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT OR BRACING TO PREVENT EXCESSIVE STRESS ON THE PIPING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
- CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS. MONUMENTS DAMAGED OR DISPLACED DUE TO CONTRACTOR NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOT BLOCK DRAINAGE FROM OR DIRECT EXCESS DRAINAGE ONTO ADJACENT PROPERTY.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
- CONTRACTOR MUST ADHERE TO AXLE LOAD LIMITS WHEN DELIVERING MATERIALS AND EQUIPMENT TO THE SITE. ANY DAMAGE TO THE ROADWAY AND THE CITY RIGHT-OF-WAY SHALL BE REPAIRED TO THE CITY'S SATISFACTION AT THE COST OF THE CONTRACTOR.
- CONTRACTOR SHALL TAKE PHOTOGRAPHS AND DOCUMENT THE CONDITION OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION.

CONSTRUCTION SEQUENCING AND INSPECTION OF EROSION AND SEDIMENT CONTROL PRACTICES FOR STORMWATER MANAGEMENT SYSTEMS

- OBTAIN PERMITS FOR SITE WORK FROM CITY OF SUNFISH LAKE AND ALL GOVERNING AUTHORITIES WITH JURISDICTION IN THIS CONSTRUCTION AREA.
- INSTALL PERIMETER EROSION CONTROL AND TREE PROTECTION WITHIN AND ADJACENT TO LIMITS OF CONSTRUCTION. INSTALL EROSION CONTROL INSERTS AT ALL CATCH BASINS AND MANHOLES AND CONSTRUCT ROCK CONSTRUCTION ENTRANCE. SEE EROSION CONTROL PLANS FOR FURTHER INSTRUCTION.
- UPON INSTALLATION OF EROSION CONTROLS PER THE APPROVED PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER FOR AN INSPECTION PRIOR TO ANY EARTHWORK ACTIVITIES COMMENCING.
- PROCEED WITH SITE DEMOLITION, GRADING AND CONSTRUCTION.
- MAINTAIN EROSION CONTROL BMP'S AND CONTROL RUNOFF REQUIREMENTS AS OUTLINED ON DRAWINGS AND SPECIFICATIONS.
- ALL SITE WORK SHOULD BE COMPLETE PRIOR TO WORK ON THE STORMWATER AREAS BEING STARTED TO THE EXTENT POSSIBLE. IF CONSTRUCTION OF THESE AREAS NEEDS TO OCCUR PRIOR TO FINAL SITE STABILIZATION, THEN THE CONSTRUCTED AREA MUST BE PROTECTED AND CONTRIBUTING FLOWS NEED TO BE FILTERED TO PREVENT SEDIMENT ACCUMULATION. THE STORMWATER MANAGEMENT SYSTEMS NEED TO BE PROTECTED FROM EROSION AND SEDIMENT. SILT FENCE WILL BE REQUIRED AROUND ITS PERIMETER TO KEEP THE AREA OF THE STORMWATER SYSTEMS PROTECTED.
- NOTIFY CIVIL ENGINEER AND CITY OF SUNFISH LAKE OF WORK BEING DONE ON STORMWATER SYSTEMS AND THE SCHEDULE OF CONSTRUCTION. ALLOW A MINIMUM OF FIVE WORKING DAYS FOR NOTIFICATION SO ENGINEER CAN CONDUCT SITE MEETING TO DISCUSS THE INTENT OF THE SYSTEM AND CONSTRUCTION OBSERVATION CAN BE SCHEDULED ACCORDINGLY. SITE MEETING TO REVIEW THE INTENT OF THE DESIGN AND THE CONSTRUCTION OF THE STORMWATER SYSTEM NEEDS TO OCCUR PRIOR TO STARTING CONSTRUCTION ON THE SYSTEM.
- MAINTAIN EROSION AND SEDIMENT CONTROL ON CONTRIBUTING AREAS TO AVOID SEDIMENTATION OF SYSTEM.
- CONSTRUCT STORMWATER SYSTEMS PER DRAWINGS AND SPECIFICATIONS.
- COMPLETE CONSTRUCTION OF PARKING AND SIDEWALKS AFTER STORMWATER SYSTEM IS INSTALLED. AFTER PAVEMENT IS INSTALLED, VERIFY THAT STORMWATER SYSTEMS ARE CLEAR AND FULLY FUNCTIONAL. EXCAVATE, DREDGE, OR CLEAN AS NEEDED SO THEY ARE FULLY FUNCTIONAL AT PROJECT CLOSEOUT.
- INSTALL LANDSCAPING AND PLANTING MATERIALS PER LANDSCAPE DRAWINGS AND SPECIFICATIONS.
- REMOVE ALL TEMPORARY EROSION CONTROL BMP'S AFTER PAVING AND STORMWATER AREAS ARE COMPLETE AND AFTER TURF HAS BEEN ESTABLISHED.
- CONTRACTOR SHALL TAKE PHOTOGRAPHS AND MEASUREMENTS OF ALL STORMWATER MANAGEMENT SYSTEMS THROUGHOUT CONSTRUCTION. DOCUMENTATION OF CONSTRUCTION SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT THE CLOSEOUT OF THE PROJECT. CLOSEOUT DOCUMENTATION SHALL INCLUDE PHOTOGRAPHS AND MEASUREMENTS OF SYSTEM DURING CONSTRUCTION, TESTING REPORTS AND OBSERVATIONS AND REDLINE DRAWINGS OF ANY FIELD MODIFICATIONS MADE DURING CONSTRUCTION.
- A LETTER WRITTEN ON COMPANY LETTERHEAD THAT THE STORMWATER MANAGEMENT PRACTICES HAVE BEEN BUILT PER THE CIVIL PLANS, OR PER REDLINE FIELD DRAWINGS, SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT THE CLOSEOUT OF THE PROJECT.
- THE CONTRACTOR SHALL SUBMIT AN AS-BUILT SURVEY OF THE COMPLETED SITE PREPARED AND SIGNED BY A LICENSED SURVEYOR TO THE CIVIL ENGINEER AT THE END OF THE PROJECT. AS-BUILT SURVEY SHALL INCLUDE ENOUGH INFORMATION TO VERIFY THE CONSTRUCTED TOPOGRAPHY, UTILITY AND SITE ELEMENTS. TOPOGRAPHY OF THE PONDS SHALL BE INCLUDED IN THE AS-BUILT SURVEY. COORDINATE WITH OWNER AND CIVIL ENGINEER FOR SCHEDULE FOR WHEN THIS SHALL BE COMPLETED.



LOCATION MAP

PROPERTY INFORMATION

ADDRESS: 410 SALEM CHURCH ROAD
PARCEL ID: 38-13600-00-030
LOT AREA: 106,237 SQ. FT. (2.44 ACRES)
WATERSHED: LOWER MISSISSIPPI RIVER

CONTACT INFORMATION

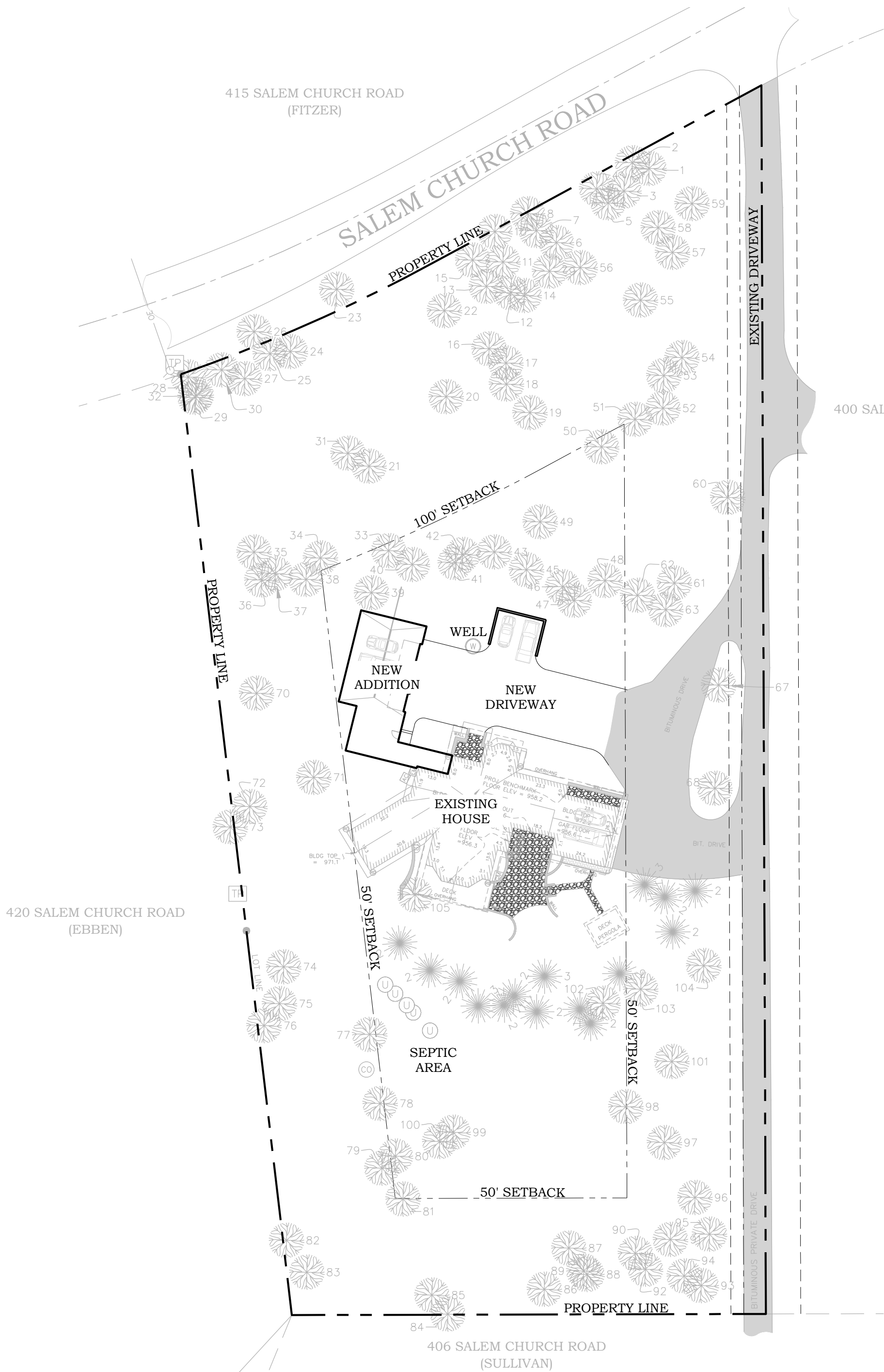
CIVIL ENGINEER
PIERCE PINI & ASSOCIATES, INC.
9298 CENTRAL AVENUE NE, SUITE 312
BLAINE, MN 55434
CONTACT: Kevin Gardner
TEL: 763.537.1311

SURVEYOR
CORNERSTONE LAND SURVEYING
6750 STILLWATER BOULEVARD N, SUITE 1
STILLWATER, MN 55082
CONTACT: Connie Villari
TEL: 651-275-8969

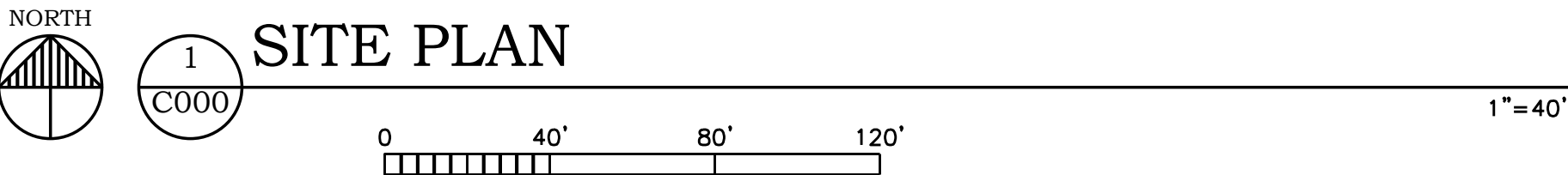
ARCHITECT
NVIZEON
16525 ELM CIRCLE
MINNETONKA, MN 55345
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DRAWING INDEX

C000 - COVER SHEET
C100 - SITE REMOVALS PLAN
C200 - STORMWATER POLLUTION PREVENTION NOTES
C300 - STORMWATER POLLUTION PREVENTION DETAILS
C400 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C500 - STORMWATER MANAGEMENT DETAILS



SITE PLAN



I hereby certify that this plan or drawing 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.

Company: PIERCE PINI & ASSOCIATES

Signed:

Name: Kevin Gardner

Date: 03/21/2023

Reg. No: 45815

Issued for

Date

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Comm. No.

22-051

Drawn

JR

Checked

KG

Date

03/21/2023

City Review

Drawing Title

COVER SHEET

C000



TREE REMOVALS

TREE ID	SPECIES	SIZE (DBH)
03	BOXELDER	11
44	GREEN ASH	14
64	WHITE SPRUCE	11
65	WHITE SPRUCE	19
66	WHITE SPRUCE	18
69	BUR OAK	12

PIERCE PINI &
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9298 CENTRAL AVENUE NE
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BARBER RESIDENCE
410 SALEM CHURCH ROAD
SUNFISH LAKE, MINNESOTA

I hereby certify that this plan or drawing 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.
Company: PIERCE PINI & ASSOCIATES

Signed:
Name: Kevin Gardner
Date: 03/21/2023 Reg. No: 45815

Issued for	Date

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Drawn	JR
Checked	KG
Date	03/21/2023

City Review

Drawing Title
SITE REMOVALS PLAN

PROJECT DESCRIPTION:

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS NOT REQUIRED AS PART OF THE GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/STATE DISPOSAL SYSTEM (SDS) CONSTRUCTION STORMWATER PERMIT FOR THE PROJECT SINCE THE DISTURBED AREA IS LESS THAN ONE ACRE, HOWEVER ALL SITE WORK SHALL FOLLOW THE PERMIT GUIDELINES.

THE GOAL OF POLLUTION PREVENTION EFFORTS DURING PROJECT CONSTRUCTION IS TO CONTROL SOIL AND POLLUTANTS ON THE SITE AND PREVENT THEM FROM LEAVING THE PROJECT SITE AND FLOWING TO SURFACE WATERS. THE PURPOSE OF THIS SWPPP IS TO PROVIDE GUIDELINES FOR ACHIEVING THAT GOAL. THE SWPPP MUST BE KEPT ONSITE AND UPDATED AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO KEEP IT CURRENT WITH ANY MODIFICATIONS TO THE POLLUTION CONTROL MEASURES BEING UTILIZED.

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW GARAGE AND MUDROOM ADDITION ON TO THE EXISTING HOUSE AS WELL AS ADDITIONAL DRIVEWAY TO SERVICE THE NEW GARAGE ADDITION.

THE PROPOSED STORMWATER MANAGEMENT DESIGN WILL MEET THE REQUIREMENTS OF THE CITY OF SUNFISH LAKE AND THE LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT ORGANIZATION. THIS PROJECT IS NOT REQUIRED TO MEET THE MPCA PERMANENT STORMWATER MANAGEMENT REQUIREMENTS BECAUSE THE DISTURBED AREA IS LESS THAN ONE ACRE.

REGULATORY CONTEXT:

DISCHARGE TO SPECIAL OR IMPAIRED WATERS WITHIN ONE MILE OF SITE:

-THIS PROJECT DISCHARGES TO SUNFISH LAKE - THIS LAKE IS IDENTIFIED AS AN IMPAIRED WATER ON THE MPCA'S 303(D) IMPAIRED WATERS LIST FOR NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS. THESE IMPAIRMENTS ARE CONSIDERED CONSTRUCTION RELATED AND REQUIRE BEST MANAGEMENT PRACTICES FOUND IN APPENDIX 'A' OF THE MPCA STORMWATER PERMIT.

PLACEMENT OF FILL IN WATERS OF THE STATE:

-N/A

DRINKING WATER SUPPLY MANAGEMENT AREA:

-N/A

THE PROJECT STORMWATER DISCHARGE IS NOT ANTICIPATED TO IMPACT ANY OF THE FOLLOWING:

-OUTSTANDING RESOURCE VALUE WATERS, TROUT WATERS, WETLANDS, CALCAREOUS FENS, PROPERTIES LISTED BY THE NATIONAL REGISTER OF HISTORIC PLACES OR ARCHAEOLOGICAL SITES

THE PROJECT STORMWATER DISCHARGE IS NOT SUBJECT TO ADDITIONAL REGULATION DUE TO ANY OF THE FOLLOWING:

-OTHER FORMAL ENVIRONMENTAL REVIEWS, ENDANGERED OR THREATENED SPECIES

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IMPLEMENTATION RESPONSIBILITIES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTOR'S SUBCONTRACTORS.
- CONTRACTOR SHALL PROVIDE A PERSON(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPs AND IMPLEMENTATION OF THE SWPPP.
- FOLLOWING FINAL STABILIZATION, THE OWNER IS EXPECTED TO FURNISH LONG TERM OPERATION AND MAINTENANCE (O & M) OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM.

STORMWATER DISCHARGE DESIGN REQUIREMENTS:

THE FOLLOWING SIZING CRITERIA APPLY TO THE DESIGN OF STORMWATER TREATMENT FACILITIES. N/A INDICATES NOT APPLICABLE OR NOT CONSTRUCTED AS PART OF THIS PROJECT.

- TEMPORARY SEDIMENTATION BASINS: N/A
- PERMANENT WET SEDIMENTATION BASINS: N/A
- PERMANENT INFILTRATION/FILTRATION : SEE GRADING PLAN AND STORMWATER MANAGEMENT PLAN
- PERMANENT REGIONAL PONDS: N/A
- ALTERNATIVE METHODS: N/A

SEQUENCE OF CONSTRUCTION:

THE FOLLOWING SEQUENCE DESCRIBES, IN GENERAL, THE WORK ON THE SITE:

- CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED AND/OR OBTAIN THE NECESSARY PERMITS.
- CONTRACTOR SHALL PERFORM SITE INSPECTIONS, RECORD KEEPING AND RECORD RETENTION IN ACCORDANCE WITH ALL PERMITS.
- CONTRACTOR SHALL INSTALL ALL PERIMETER AND DOWN-GRADIENT EROSION CONTROL AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), CONSTRUCTION ENTRANCES AND INLET PROTECTION DEVICES PRIOR TO SITE GRADING, EXCAVATION, STOCKPILING OR DISTURBING EXISTING VEGETATIVE COVER.
- CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- CONTRACTOR SHALL INSTALL, INSPECT, MONITOR AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROL BMPs AS SHOWN ON PLANS & IN CONFORMANCE WITH NPDES PERMIT, CONTINUOUSLY DURING THE WORK. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOILS NO LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- CONTRACTOR SHALL REPLACE OR REPAIR EROSION CONTROL AND SEDIMENT CONTROL BMPs THAT ARE NOT FUNCTIONING PROPERLY.
- CONTRACTOR SHALL PERFORM SITE RESTORATION ACTIVITIES FOR PERMANENT VEGETATIVE ESTABLISHMENT.
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL DEVICES PRIOR TO FINAL COMPLETION.

1. CONSTRUCTION ACTIVITY FIELD REQUIREMENTS:

- ALL FIELD REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- THE CONTRACTOR MUST IMPLEMENT THE SWPPP AND PROVIDE BMPs IDENTIFIED IN THE SWPPP IN AN APPROPRIATE AND FUNCTIONAL MANNER.
 - THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES UTILIZED TO PROVIDE ADEQUATE PROTECTION OF DISTURBED SOILS AND ADEQUATE PREVENTION OF SEDIMENT TRANSPORT OFF-SITE. AT A MINIMUM, THE FOLLOWING STORM WATER POLLUTION PREVENTION CONSTRUCTION ACTIVITY FIELD REQUIREMENTS SHALL BE FURNISHED BY THE CONTRACTOR.

2. EROSION PREVENTION PRACTICES

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING EROSION PREVENTION PRACTICES:
- THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMIZE EROSION AND MAINTAIN VEGETATIVE COVER TO THE EXTENT POSSIBLE. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED ON THE SITE BEFORE CONSTRUCTION BEGINS.
 - STABILIZATION ON ALL EXPOSED SOILS MUST BE INITIATED IMMEDIATELY WHENEVER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS, INCLUDING STOCKPILES WITH SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS. STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS.
 - THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM A CONSTRUCTION SITE OR DIVERTS WATER AROUND A SITE MUST BE STABILIZED BY CONTRACTOR WITHIN 200 FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. TEMPORARY OR PERMANENT DITCH SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DO NOT NEED TO BE STABILIZED UNTIL THEY ARE NO LONGER USED AS A SEDIMENT CONTAINMENT SYSTEM, AFTER WHICH THEY MUST BE STABILIZED WITHIN 24 HOURS.
 - TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE OUTLETS MUST BE PROVIDED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER.
 - THE CONTRACTOR MUST DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS OF THE SITE IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE INFILTRATION UNLESS INFEASIBLE. THE CONTRACTOR MUST UTILIZE VELOCITY DISSIPATION DEVICES IF NECESSARY TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

3. SEDIMENT CONTROL PRACTICES

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SEDIMENT CONTROL PRACTICES:
- CONTRACTOR MUST INSTALL ALL DOWN GRADIENT PERIMETER CONTROLS BEFORE ANY UP GRADIENT DISTURBANCE BEGINS. CONTRACTOR SHALL MAINTAIN PERIMETER CONTROLS UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.
 - CONTRACTOR SHALL PROVIDE GRADING AND BMP INSTALLATION TO LIMIT ALL SLOPES OF 3H:1V OR STEEPER TO AN UNBROKEN LENGTH OF 75 FEET OR LESS.
 - IF DOWN GRADIENT SEDIMENT CONTROLS ARE OVERLOADED, THE CONTRACTOR MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPs TO ELIMINATE

OVERLOADING. THE SWPPP MUST BE AMENDED TO IDENTIFY THESES ADDITIONAL PRACTICES.

- TIMING AND INSTALLATION OF SEDIMENT CONTROL DEVICES CAN BE ADJUSTED BY CONTRACTOR TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING AND GRUBBING OR VEHICLE PASSAGE. ANY SHORT-TERM ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED AND IN ALL CASES PRIOR TO THE NEXT PRECIPITATION EVENT.
- ALL PUBLIC AND PRIVATE STORM SEWER INLETS AND OUTLETS SHALL BE PROTECTED BY CONTRACTOR WITH APPROPRIATE BMPs DURING THE WORK. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL THE POTENTIAL SOURCES FOR DISCHARGING SEDIMENT TO INLETS HAVE BEEN STABILIZED BY CONTRACTOR.
- TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN SURFACE WATERS OR STORMWATER CONVEYANCES. ACCEPTABLE PROTECTION INCLUDES COVER OF MULCH, EROSION CONTROL MATS, OR PLASTIC SHEETING.
- ROCK CONSTRUCTION ENTRANCES OR EQUIVALENT SYSTEM MUST BE INSTALLED BY CONTRACTOR TO MINIMIZE TRACKING FROM SITE. CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NECESSARY IF BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET.
- CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENTATION BASINS AS NEEDED.
- CONTRACTOR MUST MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL, UNLESS INFEASIBLE. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.
- THE CONTRACTOR MUST PRESERVE A 50 FOOT NATURAL BUFFER OR PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT DISTURBANCE LIMITS AND STORMWATER FLOWS TO THE SURFACE WATER.
- IF POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ARE USED ON SITE, THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING REQUIREMENTS.
 - THE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORMWATER IS DIRECTED TO A SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR THE SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.
 - CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION. CHEMICALS MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, AND WITH DOSING SPECIFICATION AND SEDIMENT REMOVAL DESIGN SPECIFICATION PROVIDED BY THE MANUFACTURER.

4. DEWATERING AND BASIN DRAINING

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING DEWATERING REQUIREMENTS:
- CONTRACTOR'S DEWATERING ACTIVITIES THAT HAVE SEDIMENT-LADEN DISCHARGE WATER MUST BE DISCHARGED INTO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN WHENEVER POSSIBLE. OTHERWISE IT MUST BE DISCHARGED THROUGH SOME FORM OF BEST MANAGEMENT PRACTICE (BMP) BY CONTRACTOR TO LIMIT SEDIMENT FROM LEAVING THE SITE. PRIOR TO DISCHARGE, THE CONTRACTOR SHALL PERFORM A VISUAL TEST TO ENSURE ADEQUATE TREATMENT IS OBTAINED IN THE BASIN OR BMP AND APPLY ADDITIONAL TREATMENT AS REQUIRED TO ENSURE ADEQUATE TREATMENT.
 - THE CONTRACTOR SHALL DISCHARGE WATER FROM DEWATERING IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS. THE DISCHARGE WATER SHALL BE DISPERSED OVER AN ACCEPTED ENERGY DISSIPATION MEASURE AND NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM LANDOWNERS OR WETLANDS.
 - IF CONTRACTOR IS USING FILTERS WITH BACKWASH WATER, THE CONTRACTOR SHALL HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION.

5. INSPECTIONS AND MAINTENANCE

- CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THE FOLLOWING INSPECTIONS AND MAINTENANCE:
- WHEN INSPECTIONS FIND EROSION PREVENTION AND SEDIMENT CONTROL BMPs THAT ARE NONFUNCTIONAL, ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs WITHIN 24 HOURS AFTER DISCOVERY. THE CONTRACTOR SHALL ALSO PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY WITHIN 24 HOURS OF NOTICE FROM CITY INSPECTORS.
 - THE CONTRACTOR MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.
 - ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING BY CONTRACTOR AND RETAINED WITH THE SWPPP BY CONTRACTOR. MAINTENANCE MUST BE COMPLETED BY CONTRACTOR. CONTRACTOR'S RECORDS MUST INCLUDE:
 - DATE AND TIME OF INSPECTION.
 - NAME OF PERSON CONDUCTING INSPECTION.
 - FINDING OF INSPECTION INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTION.
 - DETAILS OF CORRECTIVE ACTION TAKEN (DATE, TIME, PARTY COMPLETING MAINTENANCE ACTIVITIES).
 - DATE AND AMOUNT OF RAINFALL GREATER THAN 0.5 INCHES IN 24 HOURS.
 - IF ANY DISCHARGE IS OBSERVED TO BE OCCURRING DURING THE INSPECTION, A RECORD OF ALL POINTS OF THE PROPERTY FROM WHICH THERE IS A DISCHARGE MUST BE MADE, AND THE DISCHARGE SHALL BE DESCRIBED (COLOR, ODOR, FLOATING, SETTLED, OR SUSPENDED SOLIDS, FOAM, OIL SHEEN, AND OTHER INDICATORS) AND PHOTOGRAPHED.
 - DOCUMENTATION OF CHANGES MADE TO SWPPP.
 - IN AREAS OF PROJECT WHERE FINAL STABILIZATION IS COMPLETE INSPECTIONS CAN BE REDUCED TO ONCE A MONTH. THESE AREAS SHALL BE INSPECTED BY CONTRACTOR FOR MINIMUM PERIOD OF 12 NON-WINTER MONTHS AND WITHIN 24 HOURS OF FIRST SPRING RUNOFF OR PRIOR TO RESUMING CONSTRUCTION FOLLOWING ANY WINTER STOPPAGE, WHICHEVER COMES FIRST.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF BMPs UNTIL THE PROJECT HAS UNDERGONE FINAL STABILIZATION.
 - ALL EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED BY CONTRACTOR ACCORDING TO THE DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS AND IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS.
 - ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED OR SUPPLEMENTED BY THE CONTRACTOR WHEN THEY BECOME NON-FUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE DEVICE. CONTRACTOR SHALL REPAIR OR REPLACE DEVICE THAT IS NONFUNCTIONAL BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW.
 - TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND SEDIMENT REMOVED BY CONTRACTOR ONCE THE SEDIMENT COLLECTED REACHES ONE HALF THE STORAGE VOLUME WITH 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.
 - ALL SEDIMENT DEPOSITS WITHIN SURFACE WATERS OR STORMWATER CONVEYANCES MUST BE REMOVED AND RESTABILIZED BY CONTRACTOR WITHIN 7 DAYS OF DISCOVERY OR SOONER IF IT PRESENTS A FLOOD RISK, INCLUDING DELTAS AND STORM SEWER SEDIMENT DEPOSITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED, IF NECESSARY, FOR SUCH SEDIMENT REMOVAL.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EXISTING PAVED SURFACES CLEAN OF SEDIMENT. CONSTRUCTION ENTRANCES SHALL BE CHECKED DAILY BY CONTRACTOR. IF THE ENTRANCE BECOMES INUNDATED WITH SEDIMENT, THE ENTRANCE WILL BE CLEANED OR REPLACED AS APPROPRIATE BY CONTRACTOR. STREETS LEADING TO AND FROM THE CONSTRUCTION ENTRANCE SHALL BE CHECKED DAILY BY CONTRACTOR FOR OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. THESE AREAS WILL BE SWEEPED CLEAN OF ANY TRACKED MATERIALS BY CONTRACTOR AS SOON AS POSSIBLE AND WITHIN 24 HOURS OF DISCOVERY AND AS DIRECTED BY THE CITY. CONTRACTOR SHALL EXTEND SWEEPING TO THE EXTREMITY OF ANY SEDIMENT TRACKING THAT OCCURS OFF-SITE.
 - CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY OFF-SITE SEDIMENT ACCUMULATIONS IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
 - ALL INFILTRATION/FILTRATION AREAS MUST BE INSPECTED BY CONTRACTOR TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION IS ACCUMULATING OVER THE INFILTRATION/FILTRATION AREA. SEDIMENT ACCUMULATED OVER INFILTRATION /FILTRATION MUST BE REMOVED BY CONTRACTOR.
 - CONTRACTOR SHALL PROTECT INFILTRATION/FILTRATION AREAS FROM SEDIMENTATION AND OVER-COMPACTION. DURING EXCAVATION, SEDIMENT AND EROSION CONTROL DEVICES MUST BE UTILIZED BY CONTRACTOR TO PREVENT SEDIMENTATION AND THE AREA MUST BE STAKED OFF AND MARKED SO THAT HEAVY CONSTRUCTION EQUIPMENT WILL NOT COMPACT THE SOIL.
 - INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME.

6. POLLUTION PREVENTION MEASURES

- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE SITE:
- THE CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF ALL PRODUCTS, MATERIALS, AND WASTES FROM STORMWATER WHICH MAY BE A SOURCE OF CONTAMINATION TO STORMWATER OR ARE NOT DESIGNED TO BE EXPOSED TO STORMWATER.
 - BUILDING PRODUCTS THAT MAY LEACH POLLUTANTS MUST BE UNDER COVER (PLASTIC SHEETING,

TEMPORARY ROOFS, ETC.) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.

- PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER (PLASTIC SHEETING, TEMPORARY ROOFS, ETC.) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- HAZARDOUS MATERIALS, TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) MUST BE STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS MUST COMPLY WITH ALL STATE REQUIREMENTS.
- SOLID WASTE MUST BE STORED, COLLECTED, AND DISPOSED IN COMPLIANCE WITH ALL STATE REQUIREMENTS.
- PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OVER. SANITARY WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ALL AREAS WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED. THE CONTRACTOR MUST CONDUCT FUELING IN A CONTAINED AREA UNLESS INFEASIBLE. THE CONTRACTOR MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. ALL SPILLS MUST BE CLEANED UP AND REPORTED IN ACCORDANCE WITH STATE REQUIREMENTS. DRY CLEAN UP MEASURES SHALL BE USED WHERE POSSIBLE.
- THE CONTRACTOR MUST LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA WHEN COMPLETED ON THE PROJECT SITE. RUNOFF FROM THE WASHING AREA MUST BE CONTAINED IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE PROPERLY DISPOSED OF. THE CONTRACTOR MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS. NO ENGINE DEGREASING IS ALLOWED ONSITE.
- THE CONTRACTOR MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE PROJECT CONSTRUCTION ACTIVITY. NO WASHOUT WASTES MAY CONTACT THE GROUND, AND THE CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR ARE LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH ALL MPCA RULES. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.

7. FINAL STABILIZATION

THE CONTRACTOR SHALL ENSURE FINAL STABILIZATION OF THE SITE. FINAL STABILIZATION REQUIRES THE FOLLOWING:

- ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PVIOUS SURFACE HAS BEEN ACHIEVED, INCLUDING STABILIZATION OF ALL DITCHES AND SWALES.
- CONTRACTOR SHALL ENSURE THAT ALL PERMANENT STORMWATER TREATMENT SYSTEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY SYNTHETIC AND STRUCTURAL BMPs.

RECORD AVAILABILITY AND RETENTION:

-THE CONTRACTOR SHALL MAKE THE SWPPP, INCLUDING ALL CERTIFICATES, REPORTS, RECORDS, OR OTHER INFORMATION, AVAILABLE TO FEDERAL, STATE, OR LOCAL OFFICIALS WITHIN 72 HOURS UPON REQUEST FOR THE DURATION OF THE PROJECT AND FOR THREE YEARS FOLLOWING FINAL STABILIZATION.

INSPECTION AND ENTRY:

-THE CONTRACTOR MUST ALLOW ACCESS FOR REPRESENTATIVES OF THE CITY OR ANY MEMBER THEREOF WHEN AUTHORIZED BY IT, TO ENTER UPON THE PROJECT SITE FOR THE PURPOSE OF OBTAINING INFORMATION, EXAMINATION OF RECORDS, OR CONDUCTING SURVEYS OR INVESTIGATIONS.

8. CHANGES TO SWPPP

-THE CONTRCTOR MUST AMEND THE SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMPs, DESIGNED TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER:

- THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAVE SIGNIFICANT EFFECT ON DISCHARGE. INSPECTION IS REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN ONE-HALF INCH.
- INSPECTION OR INVESTIGATION BY SITE OPERATORS, LOCAL, STATE OR FEDERAL OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE.
- THE SWPPP IS NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS.

9. SWPPP CERTIFICATION:

- THIS STORMWATER POLLUTION PREVENTION PLAN WAS PREPARED BY INDIVIDUAL(S) TRAINED IN ACCORDANCE WITH TRAINING REQUIREMENTS FOR PREPARATION OF SWPPPS. INDIVIDUAL(S) PREPARING THIS SWPPP:

PREPARED BY:
KEVIN GARDNER, P.E.
PIERCE PINI AND ASSOCIATES
KEVIN@PIERCEPINI.COM
763-537-1311

TRAINING/CERTIFICATION:

DATE OF TRAINING/CERTIFICATION: 2020
CERTIFICATION PROGRAM: UNIVERSITY OF MINNESOTA - DESIGN OF CONSTRUCTION SWPPP
ARDEN HILLS, MN
INSTRUCTOR(S): DWAYNE STENLUND
CERTIFICATION EXPIRATION: 2023

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I hereby certify that this plan or drawing 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.

Company: PIERCE PINI & ASSOCIATES

Signed:

Name: Kevin Gardner

Date: 03/21/2023

Reg. No: 45815

Issued for

Date

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Comm. No.

22-051

Drawn

JR

Checked

KG

Date

03/21/2023

City Review

Drawing Title

STORMWATER
POLLUTION
PREVENTION NOTES

C200

I hereby certify that this plan or drawing 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.

Company: PIERCE PINI & ASSOCIATES

Signed:

Name: Kevin Gardner

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Drawn

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Checked

KG

Date

03/21/2023

City Review

Drawing Title

STORMWATER
POLLUTION
PREVENTION DETAILS

C300

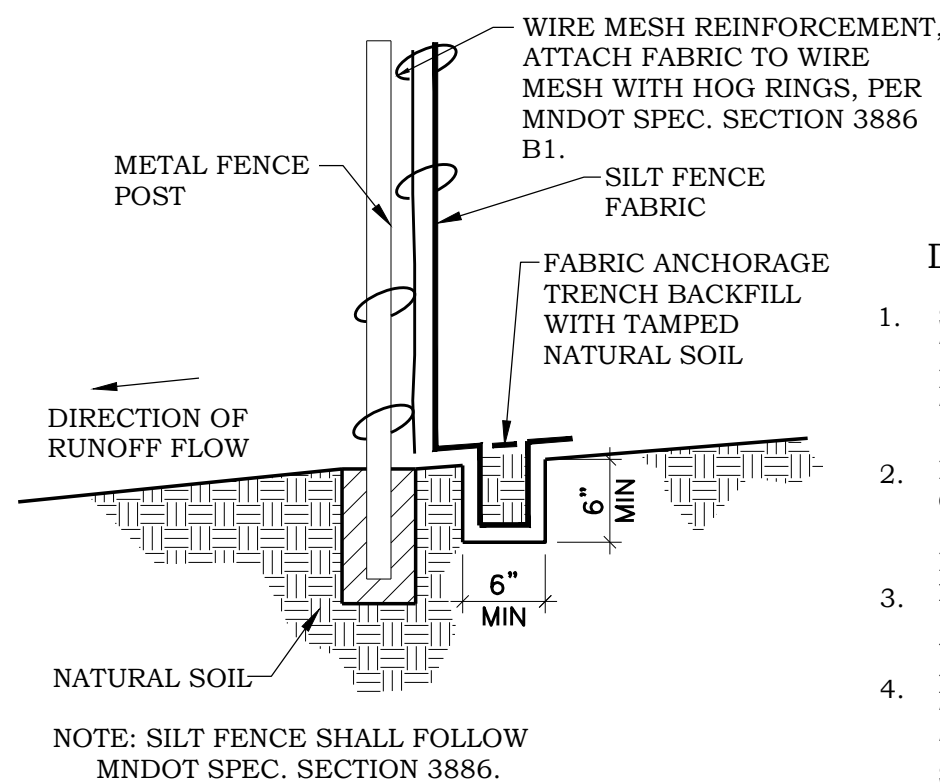


FIGURE 1 TYPICAL INSTALLATION FOR SILT FENCE

TABLE 1 MAXIMUM SLOPE LENGTH AND SLOPE FOR WHICH SILT FENCE IS APPLICABLE

SLOPE H:V	PERCENT	BY CALCULATION	BY CALCULATION	BY ACCEPTED DESIGN PRACTICES
		SILT FENCE STORAGE EQUALES 2 FT FOR A 100-YEAR EVENT	SILT FENCE STORAGE EQUALS 2 FT FOR A 2-YEAR EVENT OR 3 FT FOR A 100-YEAR EVENT	MAXIMUM SLOPE LENGTH
100:1	1%	400 FT	900 FT	100 FT
50:1	2%	200 FT	450 FT	75 FT
25:1	4%	100 FT	225 FT	75 FT
20:1	5%	80 FT	180 FT	75-50 FT
17:1	6%	67 FT	150 FT	50 FT
12.5:1	8%	50 FT	112 FT	50 FT
10:1	10%	40 FT	90 FT	50-25 FT
5:1	20%	20 FT	45 FT	25-15 FT
4:1	25%	16 FT	36 FT	15 FT
3:1	33%	12 FT	27 FT	15 FT
2:1	50%	8 FT	18 FT	15 FT

1 HEAVY DUTY SILT FENCE

NO SCALE

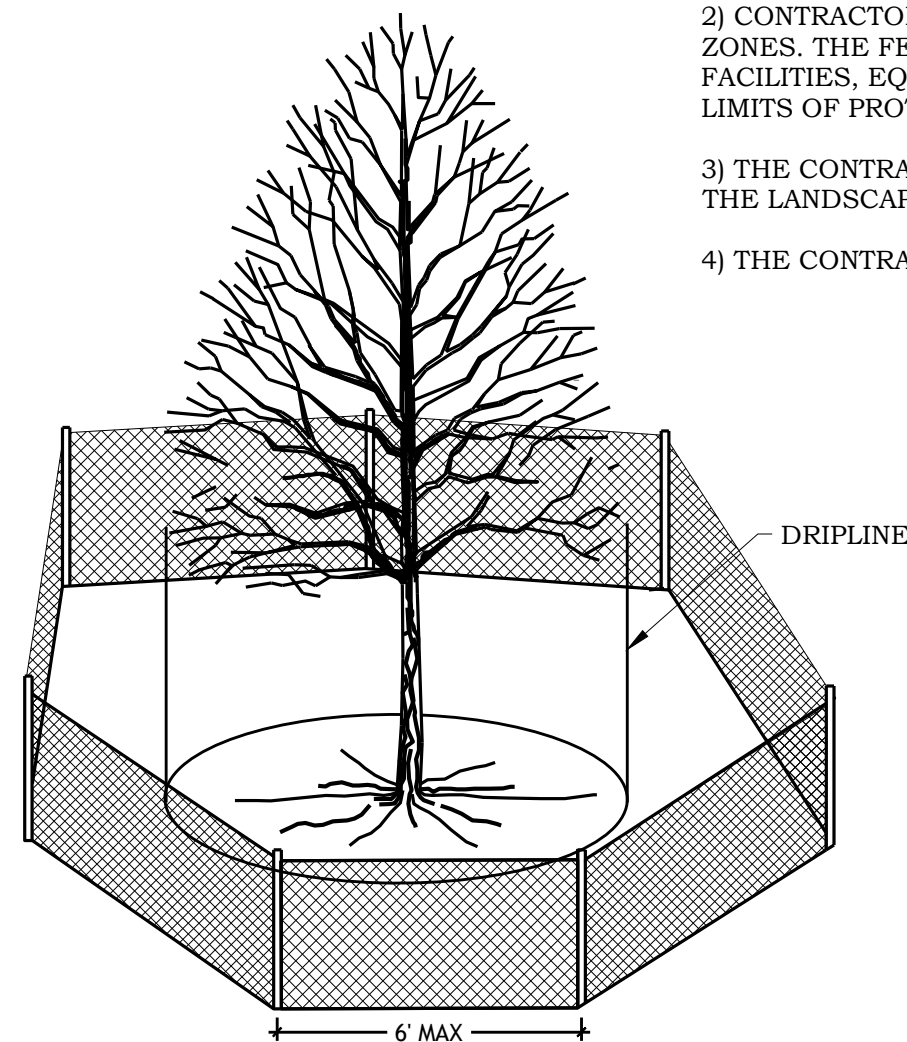
NOTES:

1) ALL TREE PROTECTION FENCING AND EROSION CONTROL FENCING SHALL BE INSTALLED ACCORDING TO THE PLANS PRIOR TO ANY DEMOLITION. AFTER DEMOLITION OR AS NECESSARY, TREE PROTECTION FENCING MAY BE RELOCATED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT. ALL TREE PROTECTION FENCING AND EROSION CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.

2) CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY VEHICLES IN TREE PROTECTION ZONES. THE FENCE SHALL PREVENT TRAFFIC MOVEMENT AND THE PLACEMENT OF TEMPORARY FACILITIES, EQUIPMENT, STOCKPILES AND SUPPLIES FROM HARMING VEGETATION WITHIN THE LIMITS OF PROTECTION.

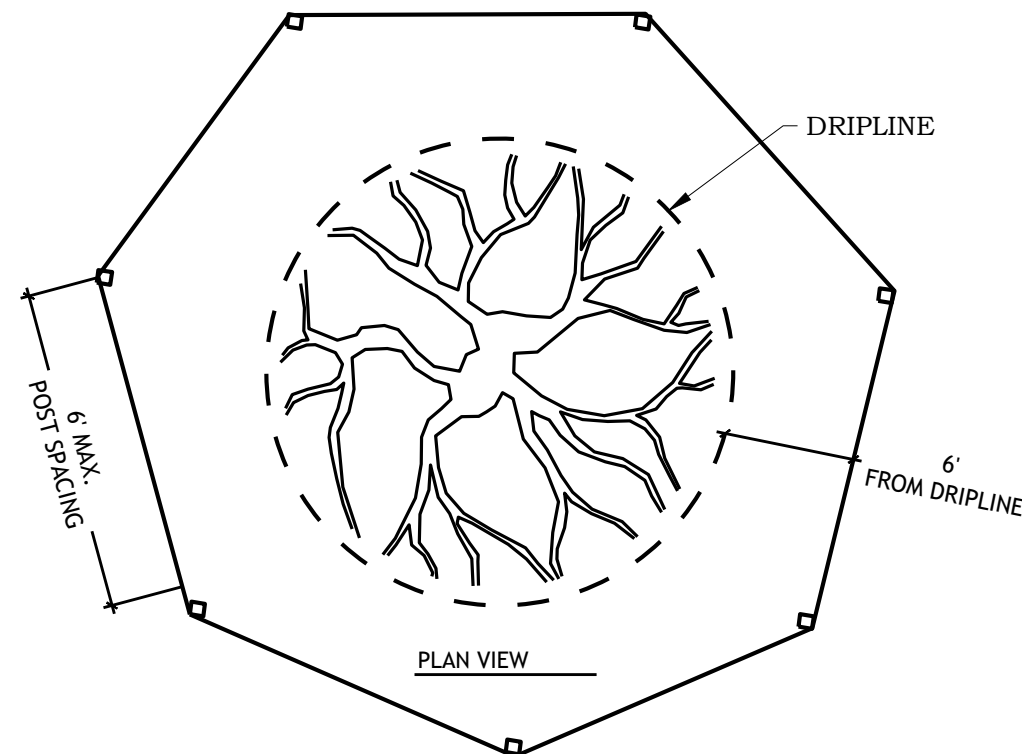
3) THE CONTRACTOR SHALL CLEANLY CUT ALL ROOTS EXPOSED BY GRADING AS DIRECTED BY THE LANDSCAPE ARCHITECT.

4) THE CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES AND STAGING AREAS.



5 TREE PROTECTION FENCING

NO SCALE



EXTEND MATERIAL ABOUT 40" ON TOP OF THE GROUND AND RANDOMLY INSERT STAPLES THROUGH THE MATERIAL ABOUT 20" APART

STAPLES AT 3' O.C. STAPLES MUST BE INSERTED THROUGH OVERLAP MATERIAL

TRANSVERSE SEAMS: BLANKET MATERIAL MUST OVERLAP AT LEAST 6" AND STAPLES INSERTED THROUGH BOTH FABRICS AT A MAXIMUM SPACING OF 20" APART

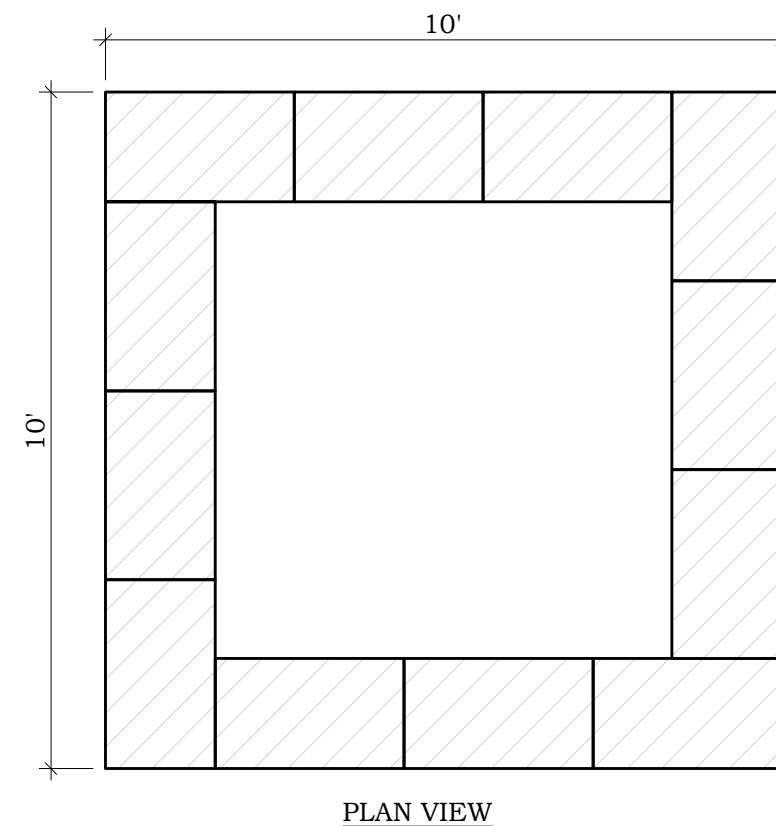
LONGITUDINAL SEAMS: BLANKET MATERIAL MUST OVERLAP AT LEAST 6" AND STAPLES INSERTED THROUGH BOTH FABRICS AT A MAXIMUM SPACING OF 40" APART

NOTES:

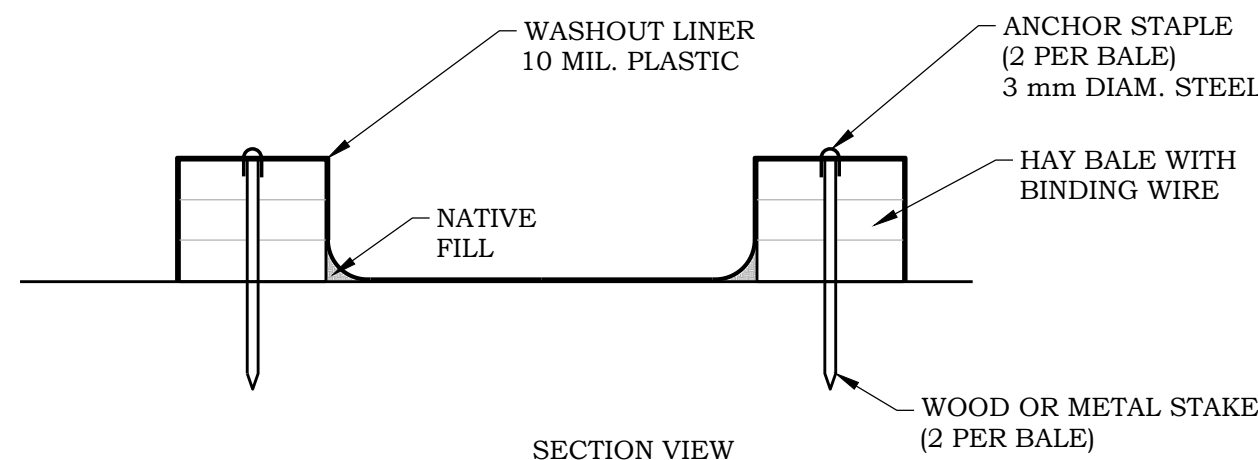
1. EROSION CONTROL BLANKET TO BE CATEGORY 4-COCONUT 2S FOR SLOPES GREATER THAN 5:1 AND SIDES AND BOTTOM OF ALL DRAINAGE SWALES AND PONDING AREAS AND CATEGORY 2-STRAW 2S FOR ALL SLOPES LESS THAN 5:1 PER MNDOT SPEC. SECTION 3885.
2. INSTALL PER MNDOT SPEC. SECTION 2575

2 EROSION CONTROL BLANKET

NO SCALE



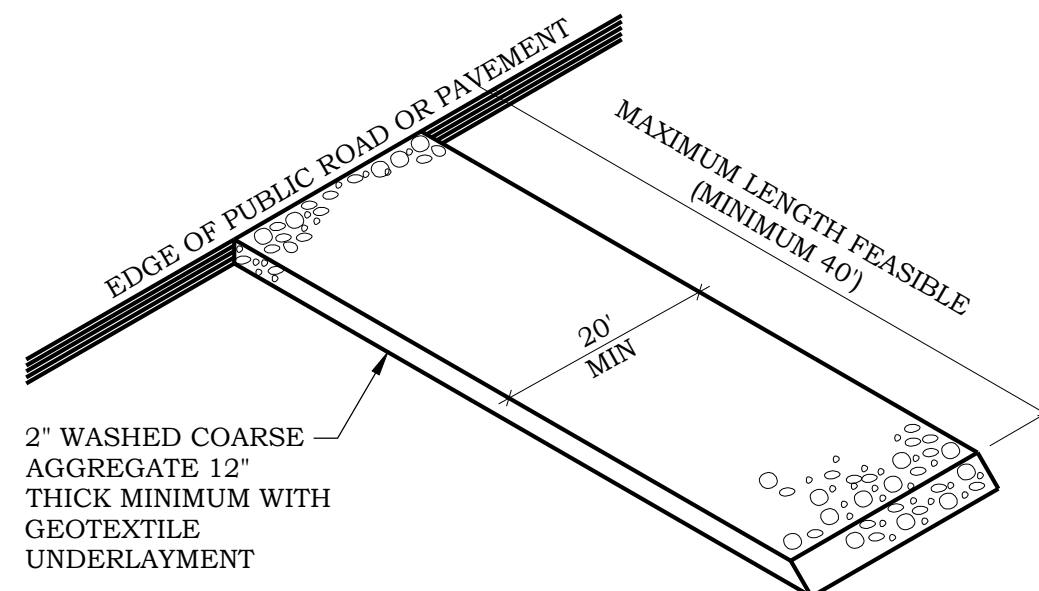
PLAN VIEW



SECTION VIEW

6 CONCRETE WASHOUT AREA

NO SCALE

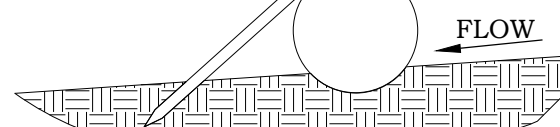


3 GRAVEL CONSTRUCTION ENTRANCE

NO SCALE

1"x2"x24" WOOD STAKES AT 3' MAX SPACING. STAKES SHALL BE DRIVEN OVER LOG AT A 45° ANGLE WITH TOP OF STAKE POINTING UPSTREAM. PROVIDE 8"-10" OF STAKE EMBEDMENT.

8"-12" DIA LOG WITH ENDS LAPPED 6". FOR INSTALLATION ON BARE SOIL PLACE LOG IN A SMOOTH, ROUNDED TRENCH WITH A DEPTH EQUAL TO 1/4 THE LOG DIA.



FIELD INSTALLATION USING MULCH OR COMPOST

1"x2"x24" WOOD STAKES AT 3' MAX SPACING. STAKES SHALL BE DRIVEN TROUGH BACK HALF OF LOG AT A 45° ANGLE WITH TOP OF STAKE POINTING UPSTREAM. PROVIDE 8"-10" OF STAKE EMBEDMENT.

8"-12" DIA LOG WITH ENDS LAPPED 6". FOR INSTALLATION ON BARE SOIL PLACE LOG IN A SMOOTH, ROUNDED TRENCH WITH A DEPTH EQUAL TO 1/4 THE LOG DIA.



FIELD INSTALLATION USING STRAW OR WOOD FIBER

4 EROSION FILTER LOG

NO SCALE

ACREAGE SUMMARY	
TOTAL LOT AREA	2.44 ACRES
EXISTING IMPERVIOUS AREA	0.33 ACRES
PROPOSED IMPERVIOUS AREA	0.44 ACRES
DISTURBED AREA	0.25 ACRES

ESTIMATED BMP QUANTITIES	
SILT FENCE	275 LF
ROCK CONSTRUCTION ENTRANCE	1 EACH
CONCRETE WASHOUT AREA	1 EACH
TREE PROTECTION FENCING	60 LF
EROSION CONTROL BLANKET	410 SY
STAKED EROSION LOG	160 LF

NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL DETERMINE FOR THEMSELVES THE EXACT QUANTITIES FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR THEIR BID AND CIVIL ENGINEER IS NOT RESPONSIBLE FOR COST ESTIMATES OR ACTUAL CONSTRUCTION COSTS.

EROSION CONTROL NOTES

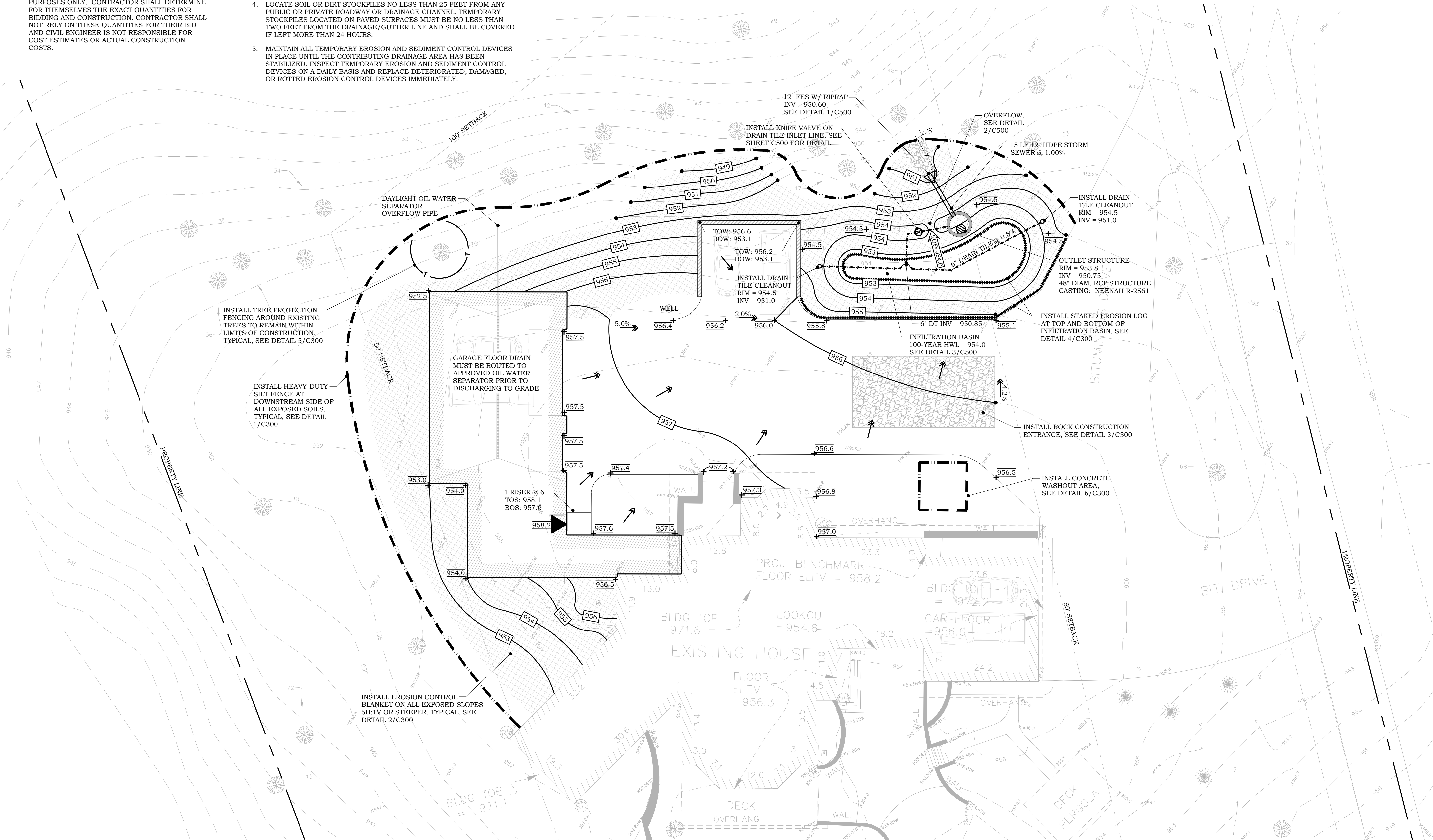
- BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. USE 2 INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST 12 INCHES THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE USING A GEOTEXTILE FABRIC BENEATH THE AGGREGATE TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW.
- REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS AND MAY BE ORDERED BY CITY INSPECTORS AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
- CATCH BASIN INSERTS OR OTHER APPROVED PRODUCTS ARE REQUIRED IN UNDISTURBED AREAS THAT MAY RECEIVE RUNOFF FROM THE PROJECT AREA. HAY BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
- LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
- MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
- DISTURBED SOIL STABILIZATION SHALL USE SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. SEED WITH ANNUAL RYE SEED AT 60 LBS PER ACRE AND WOOD MULCH FIBER AT 45 LBS PER 1,000 SF. AN EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED IS RECOMMENDED TO MINIMIZE EROSION POTENTIAL.
- READY MIXED CONCRETE AND CONCRETE BATCH PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. ALL CONCRETE RELATED PRODUCTION, CLEANING AND MIXING ACTIVITIES SHALL BE DONE IN THE DESIGNATED CONCRETE MIXING/WASHOUT LOCATIONS.
- CHANGES TO EROSION CONTROL PLAN MUST BE APPROVED BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION. CONTRACTOR TO PROVIDE INSTALLATION AND DETAILS FOR ALL PROPOSED ALTERNATE TYPE DEVICES.
- ALL EROSION CONTROL ELEMENTS ARE TEMPORARY. CONTRACTOR TO INSTALL EROSION CONTROL ELEMENTS PRIOR TO START OF LAND DISTURBING ACTIVITIES, MAINTAIN IN GOOD CONDITION DURING CONSTRUCTION AND REMOVE FROM THE SITE UPON COMPLETION OF FINAL PAVING AND TURF ESTABLISHMENT.

INFILTRATION CELL TESTING AND OPERATION

- COMMENCE GRADING OF INFILTRATION CELL TO SUBGRADE NOTED ON THE GRADING PLAN AND INFILTRATION CELL DETAIL 3/C500.
- PERFORM A MINIMUM OF TWO (2) DOUBLE RING INFILTROMETER TESTS ON THE NATIVE SUBGRADE OF THE INFILTRATION CELL.
- INSTALL DRAIN TILE, KNIFE VALVE AND INFILTRATION CELL MEDIA PER DETAIL 3/C500.
- IF THE RESULTS OF DOUBLE RING INFILTROMETER TESTING ON THE NATIVE SUBGRADE RESULTS IN AN EXISTING INFILTRATION RATE OF 0.2 INCHES PER HOUR OR GREATER, THEN THE KNIFE VALVE SHALL BE SET IN THE CLOSED POSITION TO PROMOTE ON-SITE INFILTRATION.
- IF THE RESULTS OF DOUBLE RING INFILTROMETER TESTING ON THE NATIVE SUBGRADE RESULTS IN AN EXISTING INFILTRATION RATE OF 0.2 INCHES PER HOUR OR LESS, THEN THE KNIFE VALVE SHALL BE SET IN THE OPEN POSITION AS THE NATIVE SUBGRADE IS NOT CONDUSIVE TO INFILTRATION AND THE DRAIN TILE SYSTEM WILL BE IN OPERATION TO ENSURE DRAWDOWN WITHIN 48 HOURS.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED HEAVY DUTY SILT FENCE
- PROPOSED TREE FENCING
- PROPOSED EROSION LOG
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED EROSION CONTROL BLANKET



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BARBER RESIDENCE
410 SALEM CHURCH ROAD
SUNFISH LAKE, MINNESOTA

I hereby certify that this plan or drawing 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.

Company: PIERCE PINI & ASSOCIATES

Signed:

Name: Kevin Gardner

Date: 03/21/2023

Reg. No: 45815

Issued for

Date

Copyright 2022 Pierce Pini & Associates, Inc.

Comm. No.

22-051

Drawn

JR

Checked

KG

Date

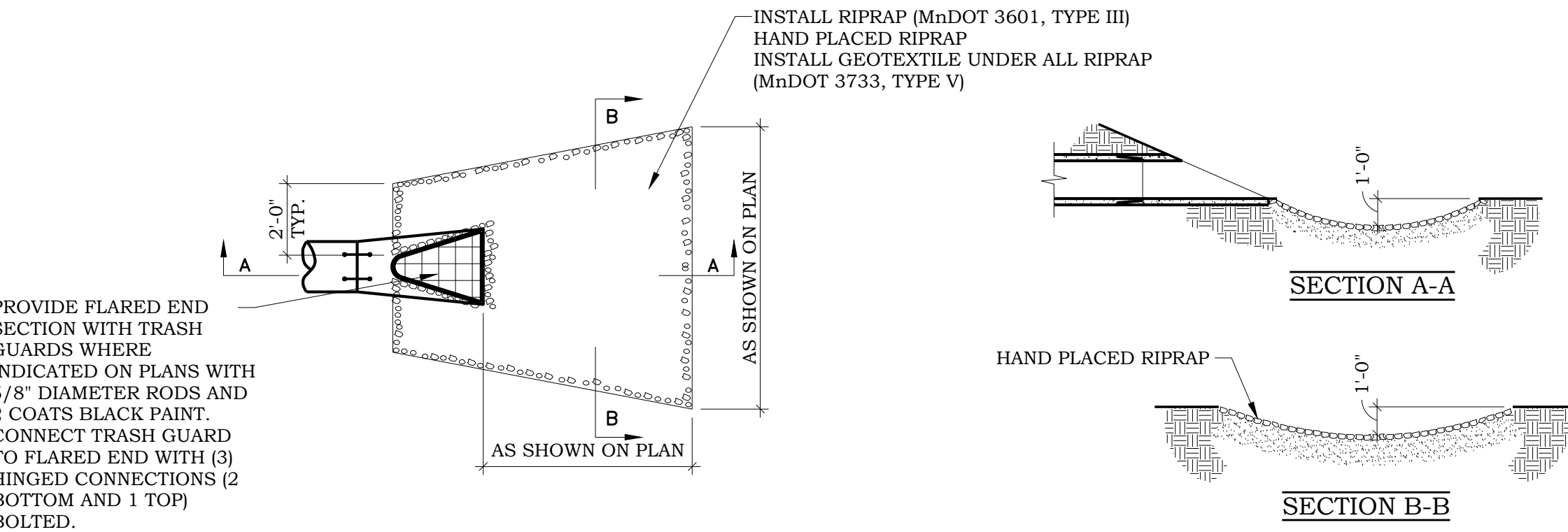
03/21/2023

City Review

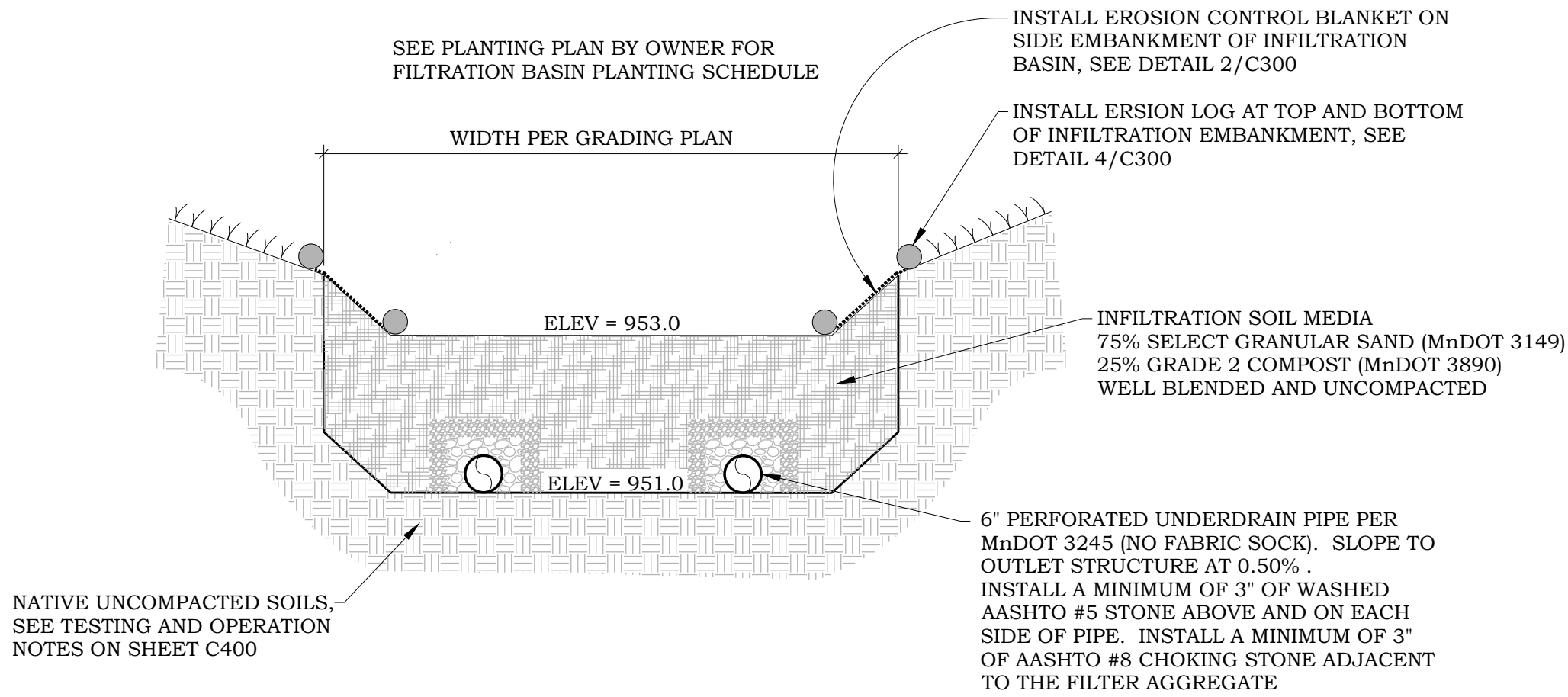
Drawing Title

GRADING, DRAINAGE
AND EROSION
CONTROL PLAN

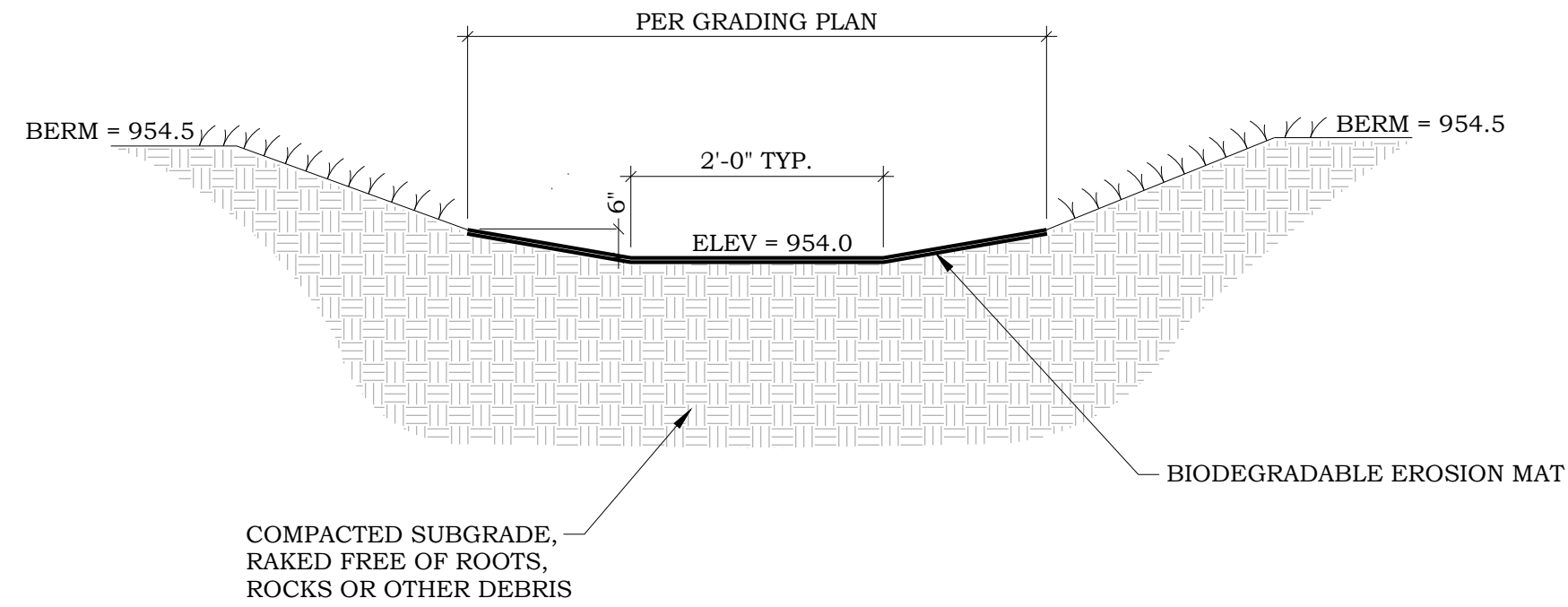
C400



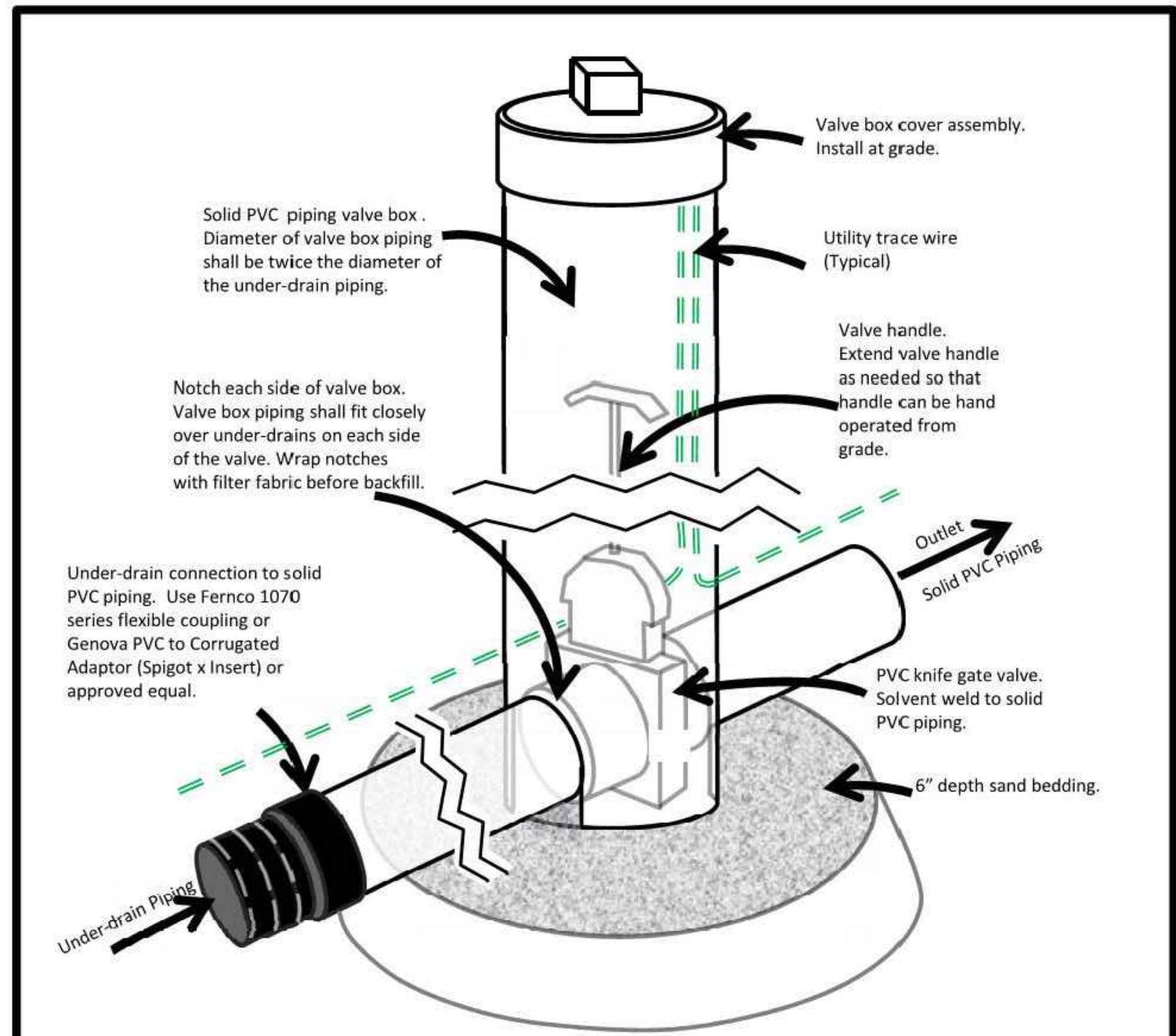
1 FLARED END SECTION WITH RIPRAP
C500 NO SCALE



3 INFILTRATION BASIN
C500 NO SCALE



2 BIOFILTRATION BASIN OVERFLOW
C500 NO SCALE



- NOTES:**
1. Solid piping and fittings shall be PVC Schedule 40 unless noted otherwise. Piping diameters and elevations shall be as shown on the approved plans. All solid pipe fitting and joints shall be solvent welded or have mechanical coupler to provide watertight connections.
 2. The knife gate valve shall be a Valterra GKV PVC Schedule 40 with 304 stainless steel paddle and metal handle or approved equal. The valve diameter shall match the diameter of the under-drain piping unless noted otherwise.
 3. Valve box cover assembly includes a PVC clean-out adapter with threaded plug to access valve handle and trace wires from grade.
 4. The utility trace wire shall be insulated 12 gauge copper installed along all pipe runs. Provide access to wires inside of the valve box.
 5. THE VALVE SHALL BE INSTALLED IN THE CLOSED POSITION TO PROMOTE INFILTRATION INTO THE NATIVE SUBGRADE. SEE NOTES OF SHEET C400 FOR INFILTRATION BASIN TESTING AND OPERATION.



Dakota County Soil And Water Conservation District
4100 220th Street West, Suite 102
Farmington, MN 55024
Phone: 651.480.7777
www.dakotacountyswcd.org

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Under-drain Valve & Valve Box

Not to Scale Revision Date 11/22/11

PIERCE PINI &
ASSOCIATES, INC.
Consulting Civil Engineers

9298 CENTRAL AVENUE NE
SUITE 312
BLAINE, MN 55434
TEL 763-537-1311

BARBER RESIDENCE

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Drawn JR

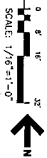
Checked KG

Date 03/21/2023

City Review

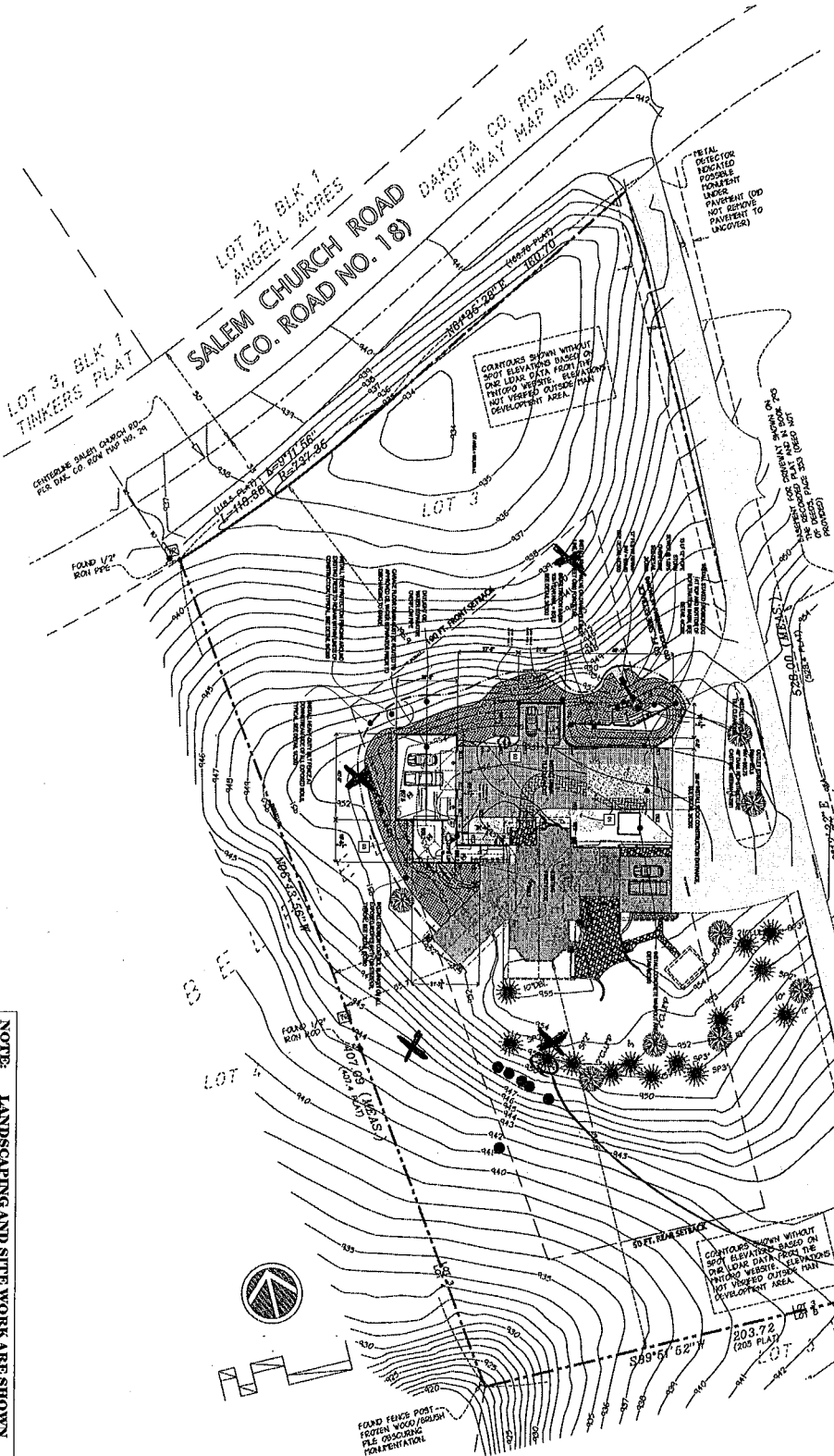
Stormwater
Management
Details

C500



NOTE: LANDSCAPING AND SITE WORK ARE SHOWN FOR DESIGN INTENT ONLY. PLEASE REFER TO THE LICENSED LAND SURVEYORS DRAWING AND ALL CIVIL DRAWINGS, NOTES, AND DETAILS

ISSUED FOR PERMIT
01/26/2023



Handwritten note: Our clients want to keep the existing driveway and not remove it.

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	01/26/2023	ML	ML
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			

Sheet Number
A1.1

Sheet Title:
PROPOSED
SITE PLAN AT GARAGE LEVEL

Addition & Remodel
Barber Residence
410 Salem Church Road
Sunfish Lake, MN 55118

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	01/26/2023	ML	ML
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			