

Beck North Lot 53 JSP14-03

Beck North Lot 53, JSP14-03

Consideration of the request of Amson Dembs Development for Preliminary Site Plan and Stormwater Management Plan approval. The subject property is located in Section 4, at the northeast corner of Nadlan Court and Hudson Drive in the I-1, Light Industrial District. The subject property is 3.90 acres and the applicant is proposing to construct a 50,058 square foot speculative office and industrial building with associated parking and landscaping.

REQUIRED ACTION

Approval/denial of the Preliminary Site Plan and Stormwater Management Plan.

REVIEW	RESULT	DATE	COMMENTS			
Planning	Approval recommended	02/26/14	Applicant should revise the proposed floor plan to more clearly show areas that can be deducted from parking calculations or provide 5 additional parking spaces Items_to_address on_the_Final_Site_Plan submittal			
Engineering	Approval recommended	02/26/14	Items to address on the Final Site Plan submittal			
Traffic	Approval recommended	02/24/14	Items to address on the Final Site Plan submittal			
Landscaping	Approval recommended	02/26/14	Items to address on the Final Site Plan submittal			
Façade	Approval recommended	02/27/14	Sample board must be submitted prior to the Planning Commission meeting			
Fire	Approval recommended	02/10/14	No additional items to address			

Motion sheet

Approval - Preliminary Site Plan

In the matter of Beck North Lot 53, JSP14-03, motion to **approve** the <u>Preliminary Site Plan</u> based on and subject to the following:

- Applicant revising the floor plan to more clearly show areas that can be deducted from required parking calculations as indicated in their response letter;
- b. The findings of compliance with Ordinance standards in the staff and consultant review letters and the conditions and the items listed in those letters being addressed on the Final Site Plan; and
- c. (additional conditions here if any)

This motion is made because the plan is otherwise in compliance with Article 19, Article 24 and Article 25 of the Zoning Ordinance and all other applicable provisions of the Ordinance.)

-AND-

<u>Approval - Stormwater Management Plan</u>

In the matter of Beck North Lot 53, JSP14-03, motion to **approve** the <u>Stormwater</u> Management Plan, subject to:

- a. The findings of compliance with Ordinance standards in the staff and consultant review letters and the conditions and the items listed in those letters being addressed on the Final Site Plan; and
- b. (additional conditions here if any)

This motion is made because the plan is otherwise in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

-OR-

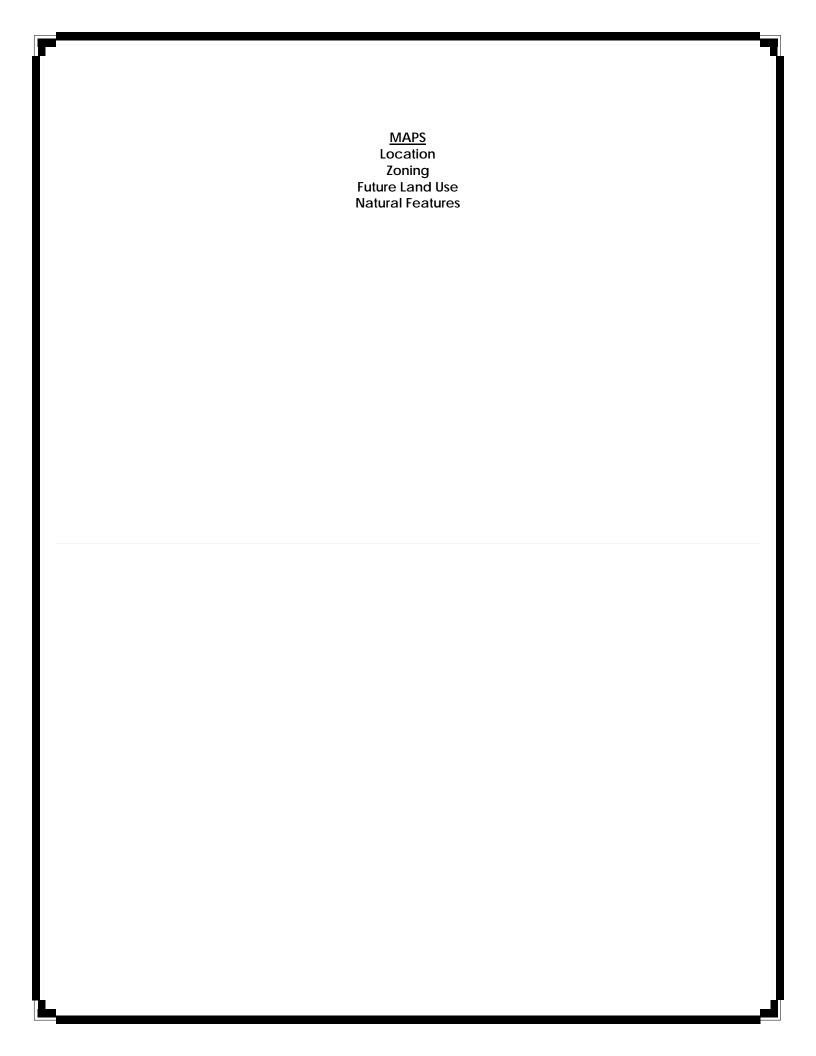
Denial

In the matter of Beck North Lot 53, JSP14-03 motion to **deny** the <u>Preliminary Site Plan</u>, for the following reasons...(because the plan is not in compliance with Article 19, Article 24 and Article 25 of the Zoning Ordinance.)

-AND-

Denial Stormwater Management Plan

In the matter of Beck North Lot 53, JSP14-03, motion to **deny** the <u>Stormwater Management Plan</u>, for the following reasons...(because the plan is not in compliance with Chapter 11 of the Ordinance.)





Map Legend



Subject Property







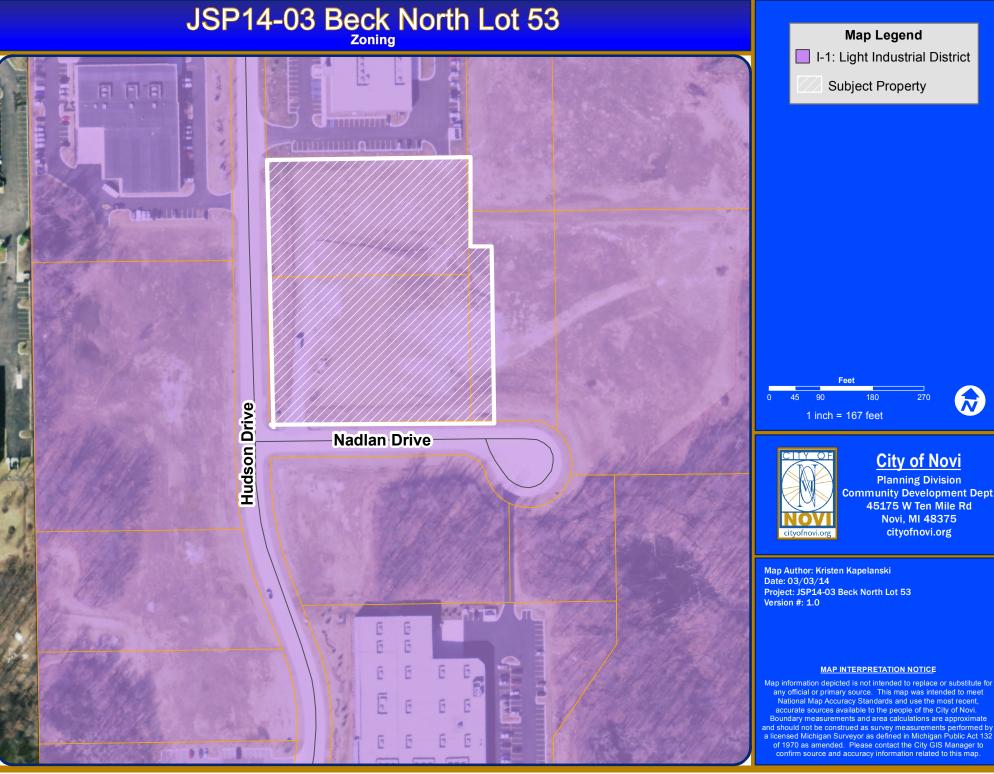
City of Novi

Planning Division Community Development Dept. 45175 W Ten Mile Rd Novi, MI 48375 cityofnovi.org

Map Author: Kristen Kapelanski Date: 03/03/14 Project: JSP14-03 Beck North Lot 53 Version #: 1.0

MAP INTERPRETATION NOTICE

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Map Legend

Industrial RD Tech









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Map Legend

Wetlands





Subject Property







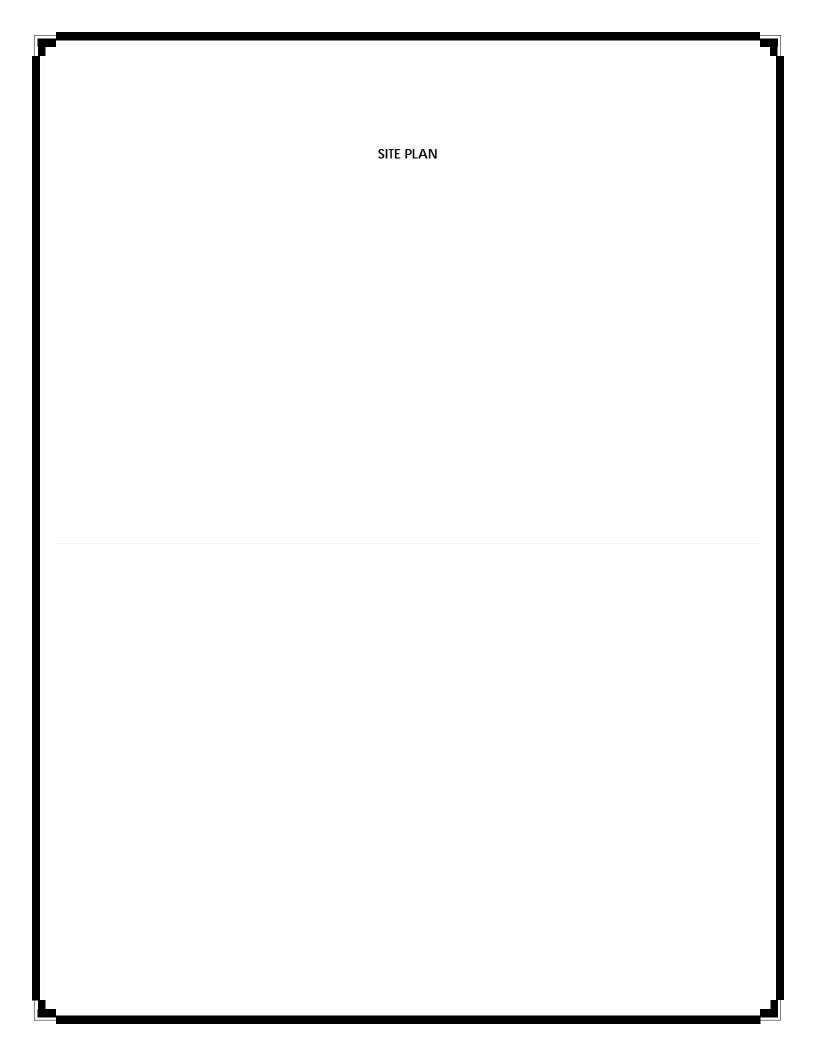
City of Novi

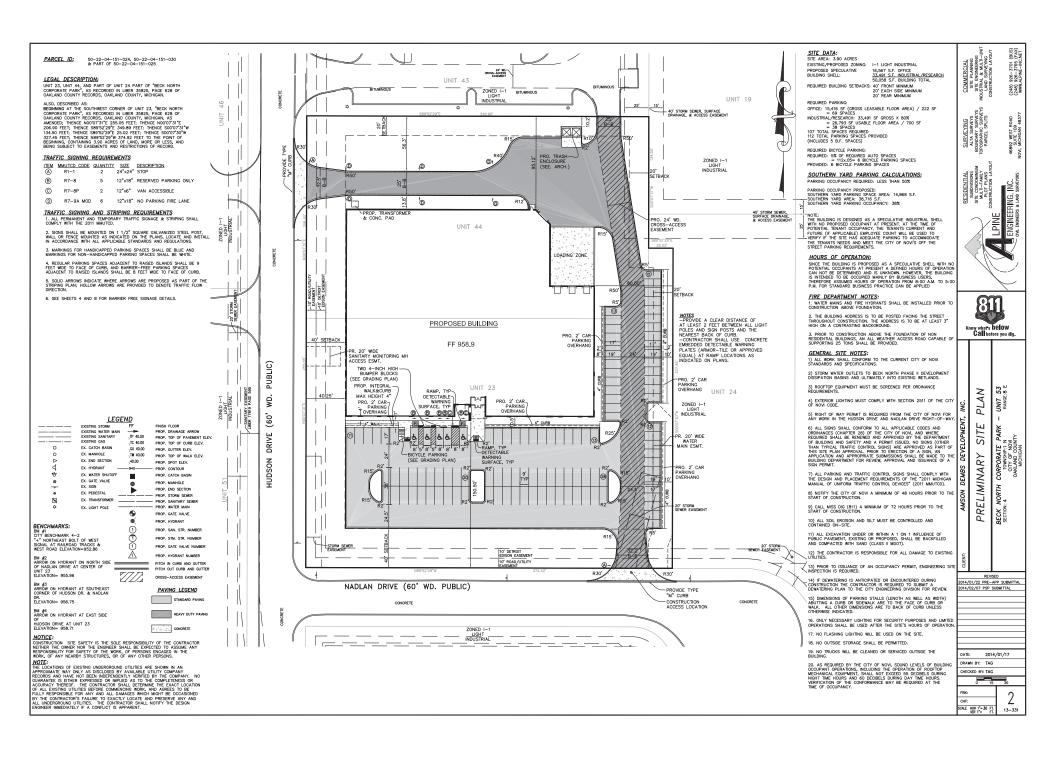
Planning Division
Community Development Dept.
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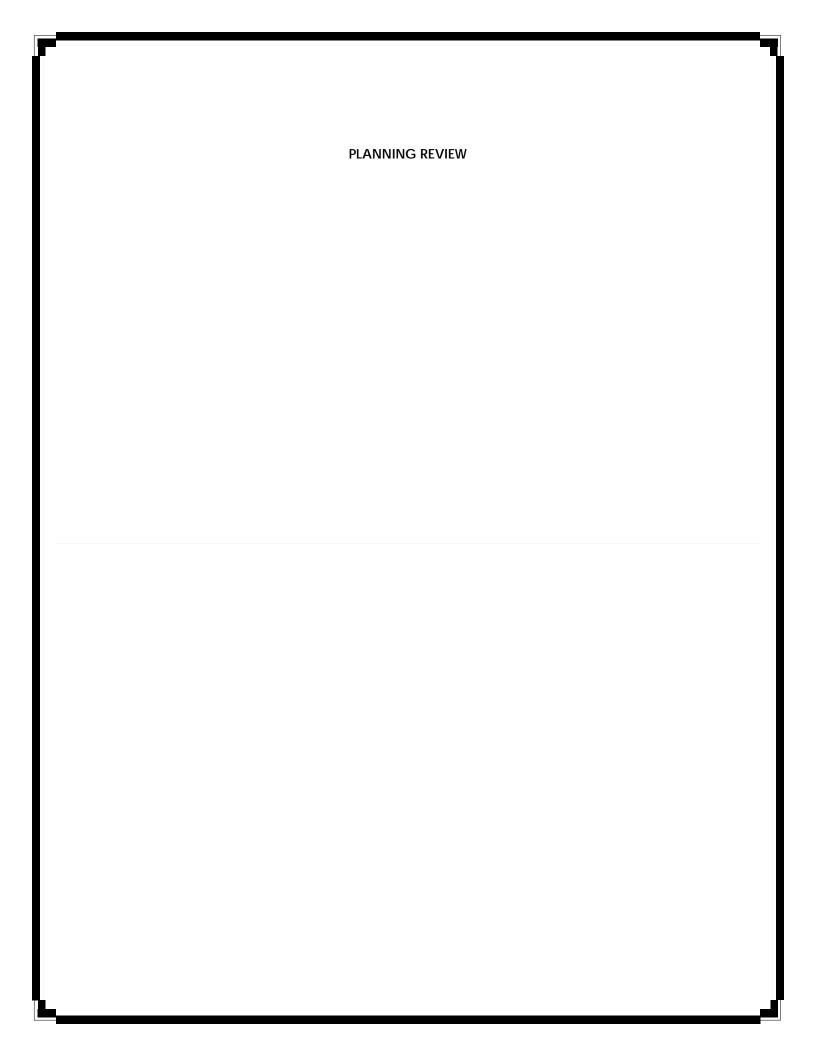
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PLAN REVIEW CENTER REPORT

February 26, 2014 **Planning Review**

Beck North Lot 53 JSP14-03

Petitioner

Amson Dembs Development

Review Type

Preliminary Site Plan

Property Characteristics

• Site Location: Northeast corner of Nadlan Court and Hudson Drive (Section 4)

• Site School District: Walled Lake Consolidate Schools

• Site Zoning: I-1, Light Industrial

Adjoining Zoning: North, East, West, and South: I-1, Light Industrial

Site Use(s): Vacant

Adjoining Uses: North, East, West and South: Vacant; Various office/industrial

• Site Size: 3.90 acres

Building Size: 50,058 square feetPlan Date: Site Plan 02/07/14

Project Summary

The applicant is proposing to construct a 50,058 square foot speculative industrial building in the Beck North Corporate Park. The proposed building will be approximately 16,567 sq. ft. of office space with the remainder to be used as industrial/warehouse space depending on the eventual tenant. Associated parking, landscaping and other site work would also be done.

Recommendation

Approval of the *Preliminary Site Plan is recommended*. The plan conforms to the requirements of the Zoning Ordinance for the I-1 district as indicated in this review letter and attached chart. There are only minor Planning related items that need to be addressed at the time of Final Site Plan review. Planning Commission approval of the Preliminary Site Plan is required.

Ordinance Requirements

This project was reviewed for conformance with the Zoning Ordinance with respect to Article 19 (I-1, Light Industrial District), Article 24 (Schedule of Regulations), Article 25 (General Provisions), and any other applicable provisions of the Zoning Ordinance. Please see the attached charts for information pertaining to ordinance requirements. Applicable sections of the Zoning Ordinance and other regulatory documents are highlighted in gray on the attached chart. Items in **bold** below must be addressed by the applicant or the Planning Commission.

1. Required Parking: The applicant should provide five additional parking spaces or additional detail on the floor plan showing areas that can be deducted from gross leasable and useable floor area calculations (such as storage or mechanical rooms) in order to comply with parking requirements. The applicant should note that floor plans can be altered and approved administratively once a building tenant is identified. Alternately, the applicant could seek a variance from the Zoning Board of Appeals.

- 2. <u>Master Deed Amendment:</u> It appears a lot combination is required in order to assemble the proposed lot for development purposes. This will require a change to the exhibit B of the existing Master Deed for the property. Plans cannot be stamped approved until the master deed changes are submitted for review by City staff and the City attorney's office.
- 3. Economic Information: The applicant has the estimated amount of construction workers needed to complete the building shell alone is approximately 120 with another 120 workers needed to complete the interior building improvements once a tenant is identified. The building is sized to house a company employing over 100 people. The applicant should indicate in their response letter the expected approximate construction cost of the project.

Response Letter

A letter from either the applicant or the applicant's representative addressing comments in this, and in the other review letters, is requested <u>prior to the Planning Commission meeting and with the Final Site Plan submittal</u>.

Site Addressing

The applicant should contact the Building Division for an address prior to applying for a building permit. Building permit applications cannot be processed without a correct address. The address application can be found on the Internet at www.cityofnovi.org under the forms page of the Community Development Department.

Please contact Jeannie Niland [248.347.0438] in the Community Development Department with any specific questions regarding addressing of sites.

Pre-Construction Meeting

Prior to the start of any work on the site, Pre-Construction (Pre-Con) meetings must be held with the applicant's contractor and the City's consulting engineer. Pre-Con meetings are generally held after Stamping Sets have been issued and prior to the start of any work on the site. There are a variety of requirements, fees and permits that must be issued before a Pre-Con can be scheduled. If you have questions regarding the Pre-Con, please contact Sarah Marchioni [248.347.0430 or smarchioni@cityofnovi.org] in the Community Development Department.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.347.0586 or kkapelanski@cityofnovi.org.

Kristen Kapelanski, AICP, Planner

Attachments: Planning Review Chart

ish furn.

PLANNING REVIEW SUMMARY CHART

Project Name: Beck North Lot 53 JSP14-03 Plan Date: 02-07-14 Preliminary Site Plan

			Meets	
Item	Required	Proposed	Requirements?	Comments
Master Plan	Industrial Research Development Technology	No Change Proposed	Yes	
Zoning	I-1 Light Industrial District	No Change Proposed	Yes	
Use (Article 19)	Office, research & development, technology centers, warehousing, manufacturing, laboratories, utility buildings, indoor/outdoor recreation, other similar uses, and accessory structures	Speculative 50,058 sq. ft. office and light industrial building	Yes	
Building Height (Sec. 2400 & Sec. 2503.2.E)	40 feet maximum	34 feet to top of RTU screen	Yes	
Building Setback	(Sec. 2400)			
Front (west)	40 ft.	40 ft.	Yes	
Exterior Side (south)	20 ft.	155 ft.	Yes	
Interior Side (north)	20 ft.	95 ft.	Yes	
Rear (east)	20 ft.	81 ft.	Yes	
Parking Setback	(Sec. 2400)			
Front (west)	Front yard parking permitted subject to (a) Dev. must be 2	No front yard parking proposed	Yes	
Exterior Side (south)	acres (b) Must be setback same as req. bldg. setback (40 ft.) (c) Cannot occupy more than 50% of the area btwn. min. front yard setback and bldg. setback (d) Must be	 (a) Dev. Is 3.9 acres (b) Setback 40 ft. (c) Parking occupies 38% of the southern yard (d) Landscaped berm proposed 	Yes	Planning Commission will be required to make a finding that parking is compatible with surrounding uses.

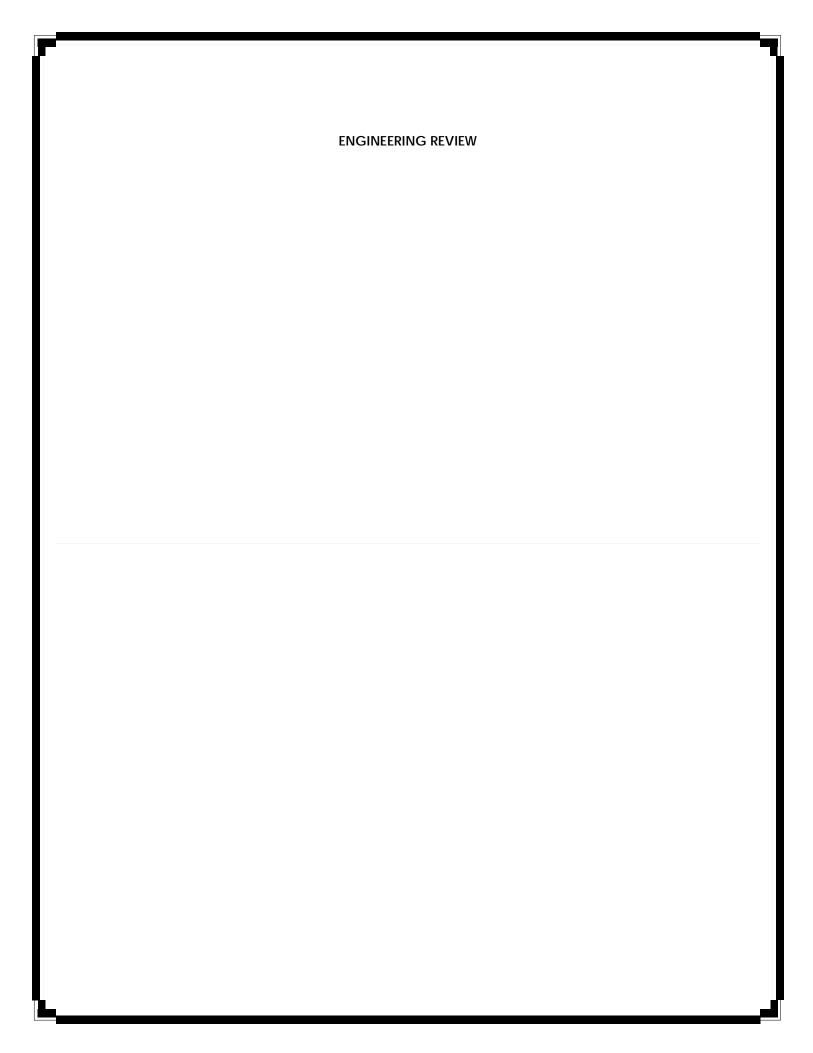
			1	
			Meets	
Item	Required	Proposed	Requirements?	Comments
	screened by brick wall or landscaped berm Planning Commission must make finding that prkg. area and lighting is compatible w/ surrounding development			
Interior Side (north)	10 ft.	20 ft.	Yes	
Rear (east)	10 ft.	12 ft.	Yes	
Number of Parking Spaces (Sec. 2505)	Office = 15,416 sq. ft. one space per 222 of GLA = 69 spaces Industrial/ Research = 33,491 sq. ft. One space for each seven hundred square feet of usable floor area or five (5) plus one (1) for each one and one-half (1 ½) employees in the largest working shift, whichever is greater. = 48 spaces = 48 spaces = 117 spaces required	112 spaces	No	Applicant will need to provide additional detail on the floor plan identifying areas that could be subtracted from the parking calculations in order to bring down the number of required parking spaces. Alternately, a variance from the Zoning Board of Appeals could be sought. Parking requirements will be confirmed when a use is proposed and the number of employees in the largest working shift is identified.
Parking Space Dimensions and Maneuvering Lanes (Sec. 2506)	9' x 19' parking space dimensions and 24' wide drives. 9' x 17' parking spaces allowed along 7' wide interior sidewalks as long as detail indicates a 4" curb at these locations and along landscaping.	9' x 19' interior spaces provided 9' X 17' spaces provided around perimeter 24' access aisles provided 7' sidewalk provided where adjacent to 17'	Yes	

			Meets	
Item	Required	Proposed	Requirements?	Comments
		parking spaces		
Barrier Free Spaces (Barrier Free Code)	5 barrier free spaces required (1 van accessible)	5 barrier free spaces (2 van accessible) provided	Yes	
Barrier Free Space Dimensions (Barrier Free Code)	8' wide with a 5' wide access aisle for standard barrier free spaces, and 8' wide with an 8' wide access aisle for van accessible spaces	8' wide with a 5' wide access aisles for standard barrier free spaces, and 8' wide with a shared 8' wide access aisle for van accessible spaces	Yes	
Barrier Free Signs (Barrier Free Design Graphics Manual)	One sign for each accessible parking space.	One barrier free sign provided for each space	Yes	
Loading Spaces (Sec. 2507)	Must be in rear yard and screened from right-of-way and neighboring properties - minimum 360 sq. ft.	3 below-grade truckwells provided in rear yard; approx. 2,700 sq. ft.	Yes	
Accessory Structure Setback- Dumpster (Sec. 2503)	Accessory structures should be setback a minimum of 10 feet from any building unless structurally attached and setback the same as parking from all property lines; the structure must be in the rear or interior side yard.	Dumpsters in the north interior side yard and setback appropriately	Yes	

			Meets	
Item	Required	Proposed	Requirements?	Comments
Dumpster (Chap. 21, Sec. 21-145)	Screening of not less than 5 feet required, interior bumpers or posts required. Enclosure to match building materials and be at least one foot taller than height of refuse bin.	Screening per ordinance requirements provided	Yes	
Exterior lighting (Sec. 2511)	Photometric plan and exterior lighting details needed at time of Final Site Plan	Lighting plan not submitted		Lighting plan required at time of Final Site Plan review.
Sidewalks (City Code Sec. 11-276(b) and Subdivision Ordinance Sec. 4.05A)	A 5'-8' wide sidewalk shall be constructed along all major thoroughfares and collectors per DCS, but not along industrial service streets per Subdivision Ordinance	No sidewalk provided	Yes	
	Building exits must be connected to sidewalk system or parking lot.	Building entrances connected to parking lot and BF ramps		
Bicycle Parking Facilities (Sec. 2526)	5% of required auto parking spaces 117 x 0.05 = 6 bicycle parking spaces required for site	6 bicycle parking spaces proposed	Yes	
	Shall be located along the building approach line and easily accessible from the building entrance	Meets accessibility requirements		
	Max. 120 feet from entrance being served or the nearest auto parking space to that entrance	Approx. 80 ft. from the entrance being served		
	Must be accessible via a paved 6 foot wide route and	Accessible along parking aisle and separated from		

Item	Required	Proposed	Meets Requirements?	Comments
	separated from auto facilities	auto facilities	·	
	4 foot wide maneuvering lane required with a 6 foot parking space width and a depth of 2 feet for single spaces and 2.5 feet for double spaces	Meets dimensional requirements		
Development/ Business Sign	Signage if proposed requires a permit.			Please contact Jeannie Niland (248.347.0438) for information on sign permits

Prepared by Kristen Kapelanski, AICP (248)347-0586





PLAN REVIEW CENTER REPORT

February 26, 2014

Engineering Review

BNCP Lot 53 JSP14-0003

-

Petitioner

Amson Dembs Development Inc., property owner

Review Type

Preliminary Site Plan

Property Characteristics

Site Location:

N. of Nadlan Drive and E. of Hudson Drive

Site Size:

3.9 acres

Plan Date:

February 7, 2014

Project Summary

- Construction of an approximately 50,058 square-foot building and associated parking. Site access would be provided driveways off of Hudson Drive and Nadlan Drive.
- Water service would be provided by an 8-inch fire service lead and a 2-inch water service lead. An additional fire hydrant is proposed off of an 8-inch extension from the existing water main on Nadlan Drive.
- Sanitary sewer service would be provided by a non-domestic lead from the existing
 18-inch sanitary sewer on Hudson Drive.
- Storm water would be collected by two collection systems with the southern portion of the site tributary to dissipation basin E and the northern portion tributary to dissipation basin D per the Beck North Phase II Storm Water Management Plan.

Recommendation

Approval of the Preliminary Site Plan and Preliminary Storm Water Management Plan is recommended.

Comments:

The Preliminary Site Plan meets the general requirements of Chapter 11, the Storm Water Management Ordinance and the Engineering Design Manual with the following items to be addressed at the time of Final Site Plan submittal (further engineering detail will be required at the time of the final site plan submittal):

General

- 1. The City standard detail sheets are not required for the Final Site Plan submittal. They will be required with the Stamping Set submittal.
- 2. Submit a completed Non-Domestic User Survey to Community Development.
- 3. Provide the liber and page numbers on the plan for all existing easements within the proposed parcel limits.
- 4. Revise the plan set to reference at least one city established benchmark. An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on cityofnovi.org.
- 5. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided at each crossing.

Water Main

- 6. Provide a profile for the proposed water main with the pipe invert and stationing of all valves, fittings, flanges, hydrants, blow-offs, high and low points, and any other appurtenances.
- 7. Three (3) sealed sets of revised utility plans along with the MDEQ permit application (1/07 rev.) for water main construction and the Streamlined Water Main Permit Checklist should be submitted to the Engineering Department for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets and the standard detail sheets.

Sanitary Sewer

8. Provide the invert elevations for the proposed 6-inch sanitary sewer lead at the monitoring manhole, the connection to the existing lead under Hudson Drive, and at the proposed building riser.

Storm Sewer

9. Provide a profile of the proposed storm sewer showing a minimum cover of 3 feet and all catch basin sumps. Indicate all structure types and diameter.

Paving & Grading

- 10. Provide spot elevations at 50' intervals along the edge of pavement and along lines of surface flow.
- 11. Please note that minimum slopes shall be one (1) percent unless otherwise.
- 12. Revise the plan set to provide a minimum ground slope of 2% for any part of the site outside of paved areas. The spot elevations of 58.9 and 57.7 to the north of the building footprint provide a slope of approximately 1%.
- 13. Revise the plan set to provide a minimum slope of five (5) percent away from the finish grade elevation of building for a minimum distance of ten (10) feet for non-paved areas adjacent to the building.

The following must be submitted at the time of Final Site Plan submittal:

- 14. A letter from either the applicant or the applicant's engineer <u>must</u> be submitted with the Final Site Plan highlighting the changes made to the plans addressing each of the comments listed above <u>and indicating the revised sheets involved</u>.
- 15. An itemized construction cost estimate must be submitted to the Community Development Department at the time of Final Site Plan submittal for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. The cost estimate must be itemized for each utility (water, sanitary, storm sewer), on-site paving, right-of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pretreatment structure and restoration).

The following must be submitted at the time of Stamping Set submittal:

- 16. A draft copy of the 20-foot wide access easement for the sanitary sewer monitoring manhole to be constructed on the site must be submitted to the Community Development Department.
- 17. A draft copy of the 20-foot wide easement for the water main to be constructed on the site must be submitted to the Community Development Department.
- 18. Please note that incomplete legal submittals or legal submittals that are not accompanied by the City's legal review transmittal form will not be accepted by Community Development. All easement documents shall be unsigned and in draft form until directed otherwise by the City Attorney.

The following must be addressed prior to construction:

- 19. A pre-construction meeting shall be required prior to any site work being started. Please contact Sarah Marchioni in the Community Development Department to setup a meeting (248-347-0430).
- 20. A City of Novi Grading Permit will be required prior to any grading on the site. This permit will be issued at the pre-construction meeting. Once determined, a grading permit fee must be paid to the City Treasurer's Office.
- 21. A Soil Erosion Control Permit must be obtained from the City of Novi. Contact Sarah Marchioni in the Community Development Department (248-347-0430) for forms and information.
- 22. A permit for work within the right-of-way of Hudson Drive and Nadlan Drive must be obtained from the City of Novi. The application is available from the City Engineering Department and should be filed at the time of Final Site Plan submittal. Please contact the Engineering Department at 248-347-0454 for further information.

- 23. Construction Inspection Fees to be determined once the construction cost estimate is submitted must be paid prior to the pre-construction meeting.
- 24. A permit for water main construction must be obtained from the MDEQ. This permit application must be submitted through the City Engineer after the water main plans have been approved.
- 25. An incomplete site work performance guarantee for this development will be calculated (equal to 1.5 times the amount required to complete the site improvements, excluding the storm water facilities) as specified in the Performance Guarantee Ordinance. This guarantee will be posted prior to TCO, at which time it may be reduced based on percentage of construction completed.
- 26. A street sign financial guarantee in an amount to be determined (\$400 per traffic control sign proposed) must be posted at the Treasurer's Office.

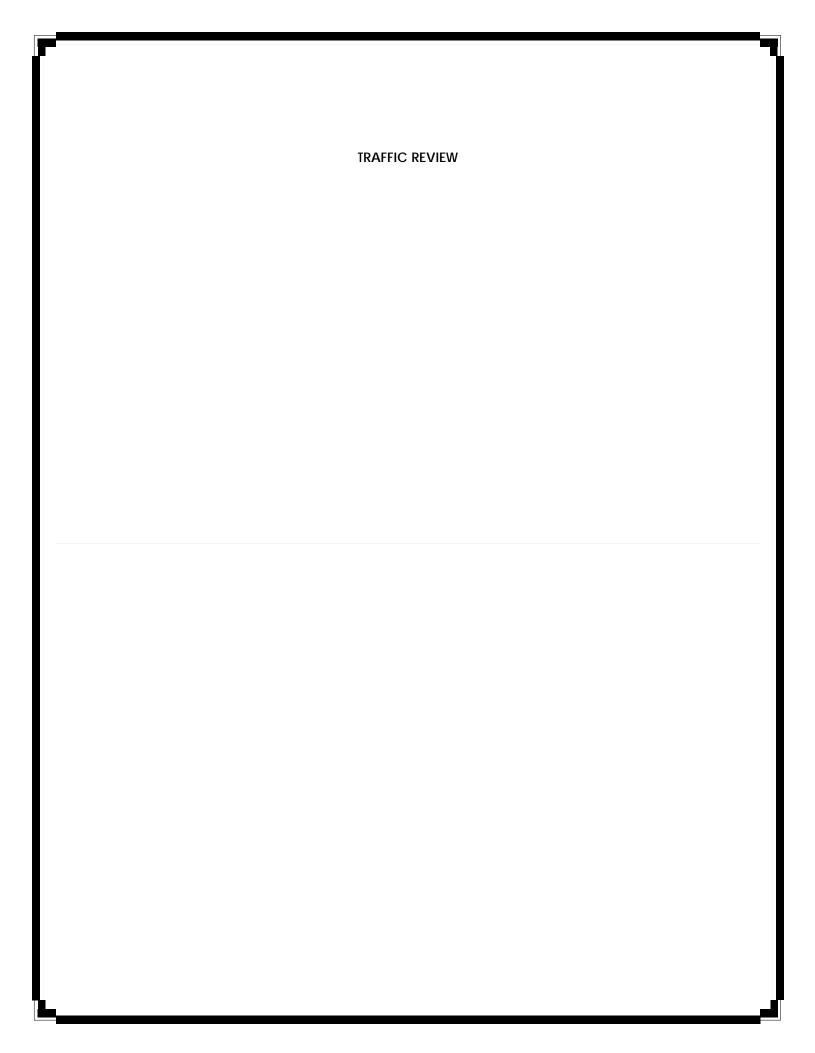
Please contact Adam Wayne at (248) 735-5648 with any questions.

cc:

Brian Coburn, Engineering

Kristen Kapelanski, Community Development Department

Michael Andrews, Water & Sewer Dept.





February 24, 2014

Barbara McBeth, AICP
Deputy Director of Community Development
City of Novi
45175 W. Ten Mile Rd.
Novi, MI 48375

SUBJECT: Beck North Unit 53, JSP14-0003, Traffic Review of Preliminary Site Plan, PSP14-0015

Dear Ms. McBeth:

At your request, we have reviewed the above and offer the following recommendation and supporting comments.

Recommendation

We recommend approval of the preliminary site plan, subject to the items shown below in **bold** being satisfactorily addressed on or before submission of the final site plan (as applicable).

Site Description

What is the applicant proposing, and what are the surrounding land uses and road network?

 The applicant is proposing a 50,058-s.f. light-industrial building on the northeast corner of Hudson Drive and Nadlan Drive. The neighboring site to the north is developed, but those immediately to the east and south are not.

Trip Generation

How much new traffic would be generated?

2. A light-industrial building of the proposed size can be expected to generate about 46 one-way vehicle trips in the AM peak hour (40 in and 6 out) and 49 such trips in the PM peak hour (6 in and 43 out).

Vehicular Access Locations

Do the proposed "driveway" locations meet City spacing standards?

3. No. The north drive would be only 67 ft from the existing driveway for the neighboring site. A Planning Commission waiver of the City's minimum same-side driveway spacing (105 ft for a 25-mph roadway, per Sec 11-216(d)(1)d of the Design and Construction Standards) will therefore be required.

Vehicular Access Improvements

Will there be any improvements to the abutting road(s) at the proposed access point(s)?

4. No, and none are required.

Access Drive Design and Control

Are the proposed design, pavement markings, and signage satisfactory?

5. Yes.

Pedestrian Access

Are pedestrians safely and reasonably accommodated?

6. Yes. Two four-inch-high bumper blocks were added (at our request) where the parking and sidewalk surfaces abut at the same grade, so as to keep overhanging vehicles from reducing the effective sidewalk area to less than that needed for safe walking and wheelchair travel.

Circulation and Parking

Can vehicles safely and conveniently maneuver through the site?

- 7. The Traffic Signing and Striping Requirements, listed on plan sheet 2, should be refined to more explicitly reinforce current MMUTCD guidelines. Specifically:
 - a. Note 3 should change the word "markings" to the word "striping" (see comment b, below). Also, another sentence should be added to note 3, stating that "Where a handicapped parking space abuts a non-handicapped space, the two spaces shall be separated by abutting blue and white stripes."
 - b. A note should be added stating that each International Symbol of Accessibility (wheelchair) to be painted on the pavement shall be white.
 - c. Note 4 should be made more general, since it applies to all end parking spaces adjacent to sidewalks and landscape areas, not necessary just end islands. We suggest new wording as follows: "An end parking space abutting a curb or walk should be 8 ft wide if designated a handicapped space or 9 ft wide if not. Per general site note 15, these widths are referenced to the face of curb or walk."

Sincerely,

CLEARZONING, INC.

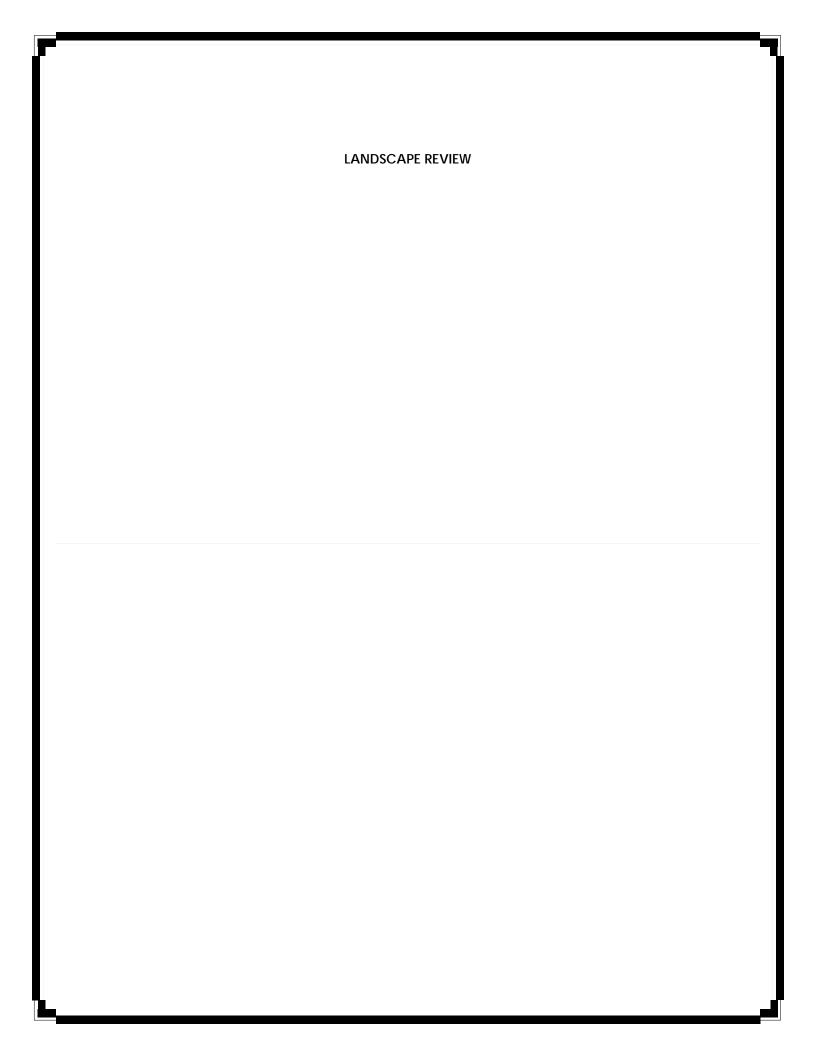
Rodney L. Arroyo, AICP

President

William A. Stimpson, P.E.

William a. Stimpson

Director of Traffic Engineering





PLAN REVIEW CENTER REPORT

February 26, 2014

Preliminary Site Plan

Beck North Lot 53 JSP14-03

Review Type

Preliminary Landscape Review

Property Characteristics

Site Location: Cartier at Hudson Drive
Site Zoning: I-1: Light Industrial District

Adjoining Zoning: North, south, east, west: I-1 Light Industrial

Site Use(s): Light Industrial

Adjoining Uses: Light Industrial or Unoccupied

Site Size: 5.46 net acres Plan Date: 2/7/2014

Recommendation

Preliminary Site Plan Approval for Beck North Lot 53 – JSP14-03 is recommended.

Ordinance Considerations

Adjacent to Public Rights-of-Way - Berm (Wall) & Buffer (Sec. 2509.3.b.)

- 1. A 40' wide greenbelt is required along both road frontages. This requirement has been met.
- 2. A 3' high berm is required. The berm must be landscaped with shrubs and perennials. Shrubs and perennials must be added along Nadlan Drive in order to meet the requirement. All shrubs should be bedded.
- 3. A canopy tree is required for each 40 l.f. of frontage. Twelve (12) trees are required. This requirement has been met.
- 4. A sub-canopy tree is required for each 35 l.f. of frontage. Thirteen (13) trees are required. This requirement has been met.

Street Tree Requirements (Sec. 2509.3.b.)

1. A street tree is required for every 55 l.f. of road frontage. Eight (8) trees are required along Hudson; seven (7) trees are required along Nadlan. This requirement has been met on both frontages.

Parking Landscape (Sec. 2509.3.c.)

- 1. A total of 1,751 s.f. of parking lot landscape area is required. This requirement has been met.
- 2. A total of eighteen (18) parking lot canopy trees are required. This requirement has been met.
- 3. Perimeter trees are required for every 35 l.f. of parking lot boundary. Eighteen (18) trees are required. This requirement has been met.
- 4. No portion of the proposed parking contains an excess of 15 contiguous spaces.

Building Foundation Landscape (Sec. 2509.3.d.)

- 1. A 4' wide landscape bed is required at the full foundation with the exception of access areas. This requirement has been met.
- 2. A total of 7,400 s.f. of building foundation landscape is required. This requirement has been met.

Plant List (LDM)

- 1. The Plant List as provided generally meets the requirements of the Ordinance and the Landscape Design Manual.
- 2. Please revise the Plant List to depict all shrubs at a value of \$50.

Planting Notations and Details (LDM)

1. Planting Details and Notations meet the requirements of the Ordinance and the Landscape Design Manual.

Storm Basin Landscape (LDM)

1. No storm basin is proposed with the project.

<u>Irrigation (Sec. 2509 3.f.(6)(b))</u>

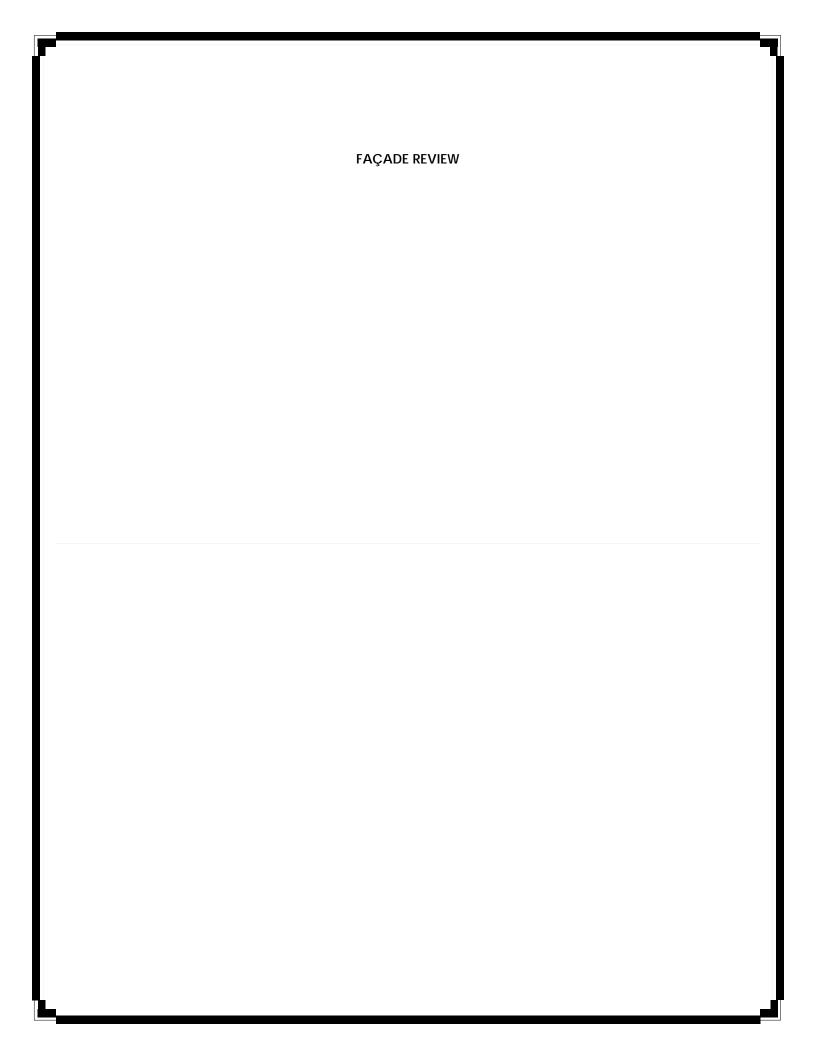
1. An Irrigation Plan must be provided upon future submittals. The cul-de-sac must be irrigated.

General

- 1. The loading area has been appropriately place at the rear of the proposed building.
- 2. Snow deposit areas have been shown as required.
- 3. Clear vision corners are shown as required.
- 4. Please see the woodland and wetland reviews for further comments.

Please follow guidelines of the Zoning Ordinance and Landscape Design Guidelines. This review is a summary and not intended to substitute for any Ordinance. For the landscape requirements, see the Zoning Ordinance landscape section on 2509, Landscape Design Manual and the appropriate items in the applicable zoning classification.

Reviewed by: David R. Beschke, RLA







February 27, 2014

City of Novi Planning Department 45175 W. 10 Mile Rd. Novi, MI 48375-3024

Re: FACADE ORDINANCE - Facade Review

Beck North Corporate Park Lot 53, PSP14-0015

Façade Region: 3, Zoning District: I-1

Dear Ms. McBeth;

The following is the Facade Review for Preliminary and Final Site Plan Approval of the above referenced project based on the drawings prepared by Faudie Architecture, dated 2/7/14. The percentages of materials proposed for each façade are as shown on the table below. The maximum percentages allowed by the Schedule Regulating Façade Materials (AKA Façade Chart) of Ordinance Section 2520 are shown in the right hand column. Materials in non-compliance with the Façade Chart, if any, are highlighted in bold.

50,000 S.F. Building	South (Front)	West	North	East	Ordinance Maximum (Minimum)
Brick (Natural Clay)	26%	26%	22%	26%	100%
Split Faced CMU	68%	72%	73%	71%	75%
Metal Siding, Ribbed	5%	2%	5%	3%	50%
Flat Metal Panels	1%	0%	0%	0%	75%

No sample board was provided for this project. This review is based on the "Clay Utility Brick" being qualifying fired natural clay brick. A sample board showing carefully coordinated colors of all façade materials should be provided prior to the Planning Commission meeting.

It is our recommendation that this application is in full compliance with the Façade Ordinance. A Section 9 Waiver is not required. This recommendation is contingent upon the aforementioned clarifications being provided.

Notes to the Applicant: Façade Ordinance requires inspection(s) for all projects. Materials displayed on the approved sample board will be compared to materials delivered to the site. It is the applicant's responsibility to request the inspection of each façade material at the appropriate time. Inspections may be requested using the Novi Building Department's Online Inspection Portal with the following link. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade".

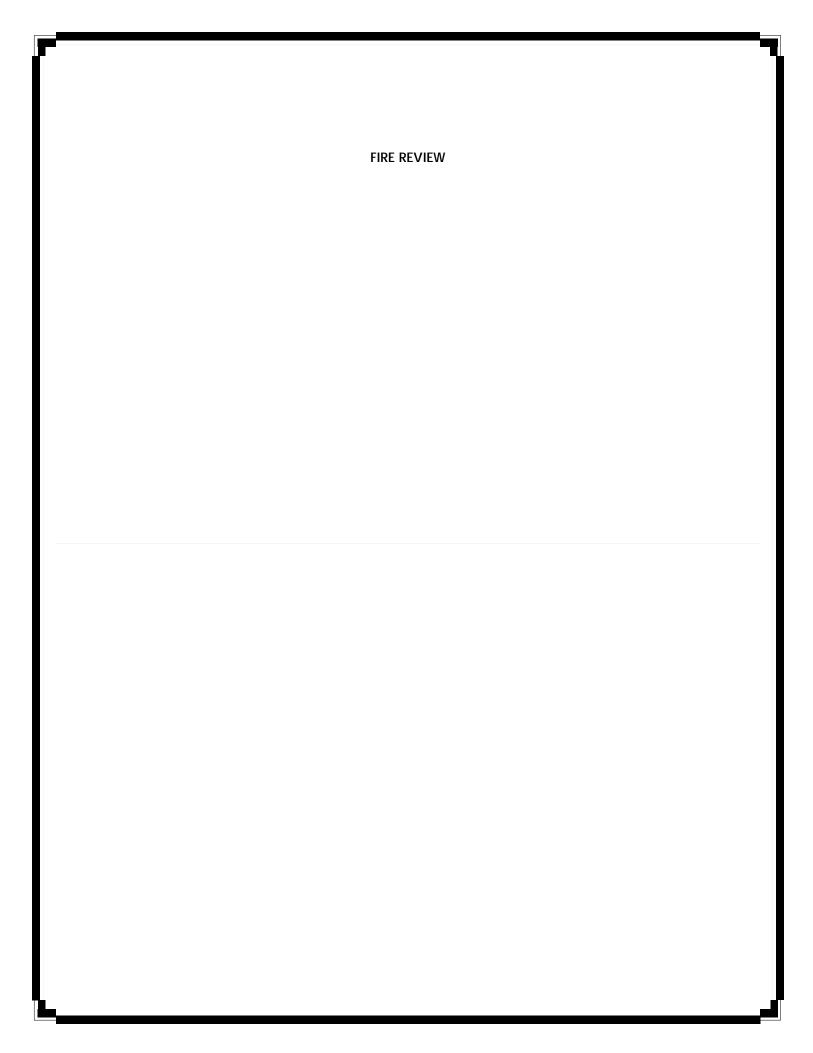
http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp.

If you have any questions regarding this project please do not hesitate to call.

Sincerely,

DRN & Associates, Architects PC

Douglas R. Necci, AIA





CITY COUNCIL

Mayor Bob Gatt

Mayor Pro Tem Dave Staudt

Gwen Markham

Andrew Mutch

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Wayne Wrobel

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Director of EMS/Fire OperationsJeffery R. Johnson

Assistant Chief of Police Victor C.M. Lauria

Assistant Chief of Police lerrod S. Hart January 30, 2014

February 10, 2014

TO: Barbara McBeth- Deputy Director of Community Development Kristen Kapelanski- Plan Review Center Sara Roediger- Plan Review Center

RE: Beck North Lot #53

SP#: PSP14-0008 PSP14-0015

Project Description:

Approx. 50,000sq. ft. building at the corner of Hudson Dr. and Nadlan Dr. Section #4

Comments:

- 1. Proximity to hydrant: In any building or structure required to be equipped with a fire department connection, the connection shall be located within one hundred (100) feet of a fire hydrant. (Fire Prevention Ord. Sec. 15-17) Corrected 2/10/14
- 1. For interior fire protection systems a separate fire protection line shall be provided in addition to a domestic service for each building. Individual shutoff valves for interior fire protection shall be by post indicator valve (P.I.V.) or by valve in well and shall be provided within a public water main easement. (D.C.S. Sec.11-68(a)(9)) Corrected 2/10/14

Recommendation:

Change location of the buildings FDC, Site plan shows landscaping that can block access to the FDC for Hudson Dr.

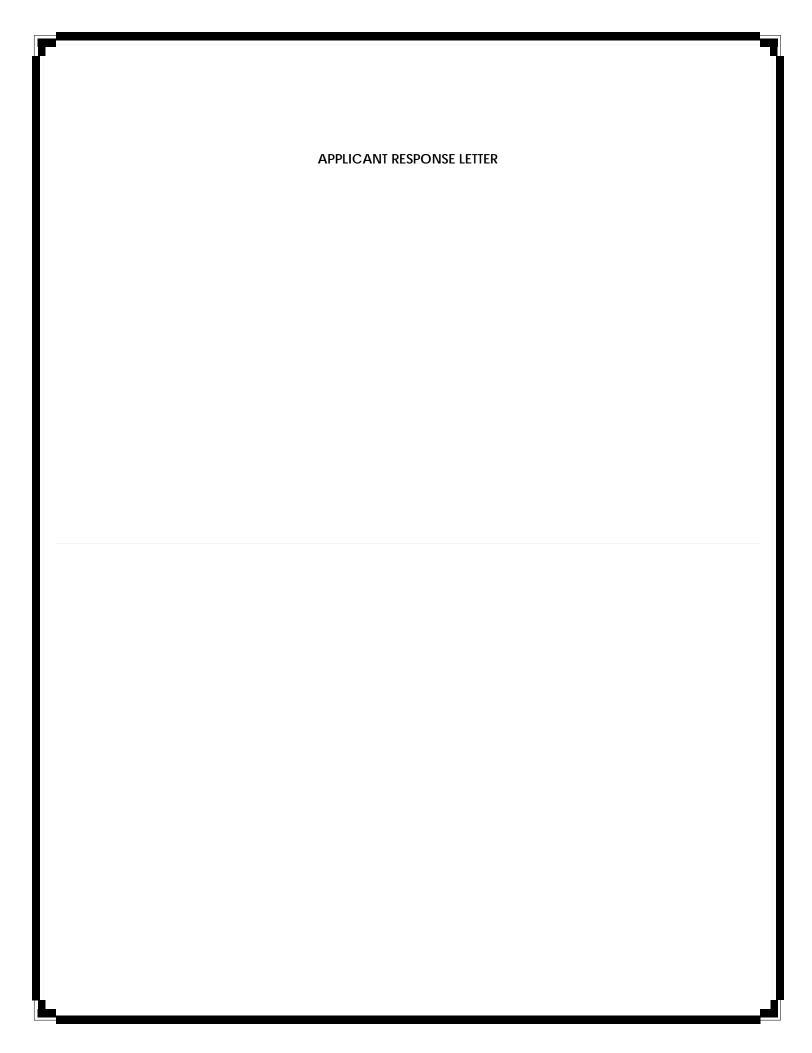
All Items Corrected 2/10/14, Recommend Approval

Sincerely,

Joseph Shelton- Fire Marshal City of Novi – Fire Dept.

Novi Public Safety Administration 45125 W. Ten Mile Road Novi, Michigan 48375 248.348.7100 248.347.0590 fax

cityofnovi.org





46892 West Road, Suite 109 Novi, Michigan 48377 Phone: (248) 926-3701 Fax: (248) 926-3765

Web: www.alpine-inc.net

March 5, 2014

Kristen Kapelanski, AICP City of Novi Community Development Department 45175 West 10 Mile Road Novi, Michigan 48375

Re: Beck North Corporate Park- Unit 53

Response to Preliminary Site Plan Comments

City of Novi Review# JSP14-03

Dear Kristen:

We offer the below comments, on behalf of our client, to several key topics with regards to the Novi review package received on March 5, 2014. Additional plan revisions will be made to satisfy City Departments at a later date during the Final Site Plan process as indicated in the review package.

Planning Review dated February 26, 2014

Review recommends approval of the Preliminary Site Plan. Items listed in the review letter will be addressed at Final Site Plan.

- 1. Additional detail will be provided on the floor plan showing areas that can be deducted from gross leasable and useable floor area calculations (such as storage or mechanical rooms) in order to comply with parking requirements.
- 2. Revised master deed will be submitted for review.

Engineering Review dated February 26, 2014

Review recommends approval of the Preliminary Site Plan and Preliminary Storm Water Management Plan. Items listed in the review letter will be addressed at Final Site Plan.

General

- 1. City standard detail sheets will be provided with stamping sets.
- 2. Non-Domestic User Survey will be provided by the applicant.
- 3. Liber and page numbers will be provided for existing easements.
- 4. One City benchmark will be referenced.
- 5. Utility crossing information will be provided.

Water Main

- 6. Public water main will be profiled with details.
- 7. MDEQ water main permit application and plans will be submitted at a later date.

Sanitary Sewer

8. Sanitary sewer profile and elevations will be provided.

Storm Sewer

9. Storm sewer profiles with 3 feet minimum cover will be provided.

Paving and Grading

- 10. Additional spot elevations will be provided along edge of pavement and along lines of surface flow.
- 11. A note will be provided that minimum slopes shall be 1% minimum.
- 12. Ground slopes outside of paving will be revised to propose 2% minimum.



46892 West Road, Suite 109 Novi, Michigan 48377 Phone: (248) 926-3701 Fax: (248) 926-3765 Web: www.alpine-inc.net

13. 5% minimum slope for a minimum distance of 10 feet will be provided away from the building in non-paved areas.

Required at the time of Final Site Plan submittal

- 14. Letter is provided.
- 15. Cost estimate will be provided.

Required at the time of Stamping Set submittal

16.-18. Draft easements will be provided.

Required prior to construction

19.-26. Items will be provided prior to construction, as necessary.

Clearzoning, Inc. Review dated February 24, 2014

Review recommends approval of the Preliminary Site Plan, subject to several items being addressed at the time of Final Site Plan. Items listed in the review letter will be addressed at Final Site Plan.

Landscape Review dated February 26, 2014

Review recommends approval of the Preliminary Site Plan, subject to several items being addressed at the time of Final Site Plan. Items listed in the review letter will be addressed at Final Site Plan.

Facade Review dated February 27, 2014

Review recommends approval.

City of Novi Fire Department Review dated February 10, 2014

Review recommends approval.

If you have any questions please feel free to call our office at (248) 926-3701.

Regards,

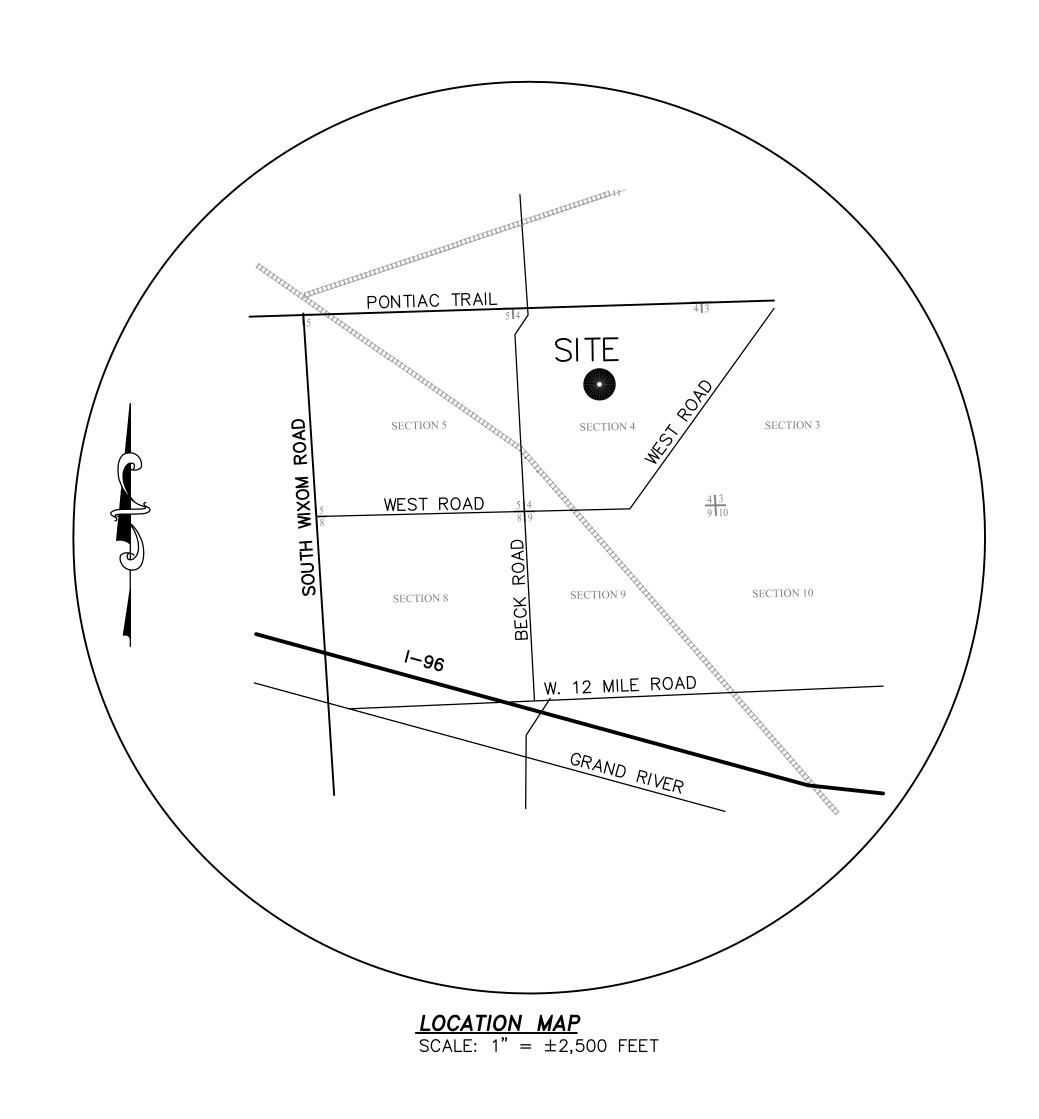
Alpine Engineering Inc.

Tom Gizoni, PE

cc: Amson Dembs Development, Inc.

PROPOSED UNIT 53 OF BECK NORTH CORPORATE PARK

(A.K.A. UNIT 23, 44 AND PART OF UNIT 24)
PRELIMINARY SITE PLAN
CITY OF NOVI, OAKLAND COUNTY



APPLICANT/DEVELOPER:

AMSON DEMBS DEVELOPMENT, INC
46855 MAGELLAN DRIVE, SUITE 200
NOVI. MI 48377

PHONE: (248) 380-7100 FAX: (248) 560-3030

ARCHITECT:

FAUDIE ARCHITECTURE
2430 ROCHESTER COURT,
SUITE 101
TROY, MI 48083
PHONE: (248) 619–2354

LANDSCAPE ARCHITECT:

ALLEN DESIGN
557 CARPENTER
NORTHVILLE, MI 48167
PHONE: (248) 467-4668

EXISTING STORM EXISTING WATER MAIN PROP. DRAINAGE ARROW EXISTING SANITARY PROP. TOP OF PAVEMENT ELEV. EXISTING GAS PROP. TOP OF CURB ELEV. EX. CATCH BASIN PROP. GUTTER ELEV. EX. MANHOLE PROP. TOP OF WALK ELEV. EX. END SECTION PROP. SPOT ELEV. EX. HYDRANT PROP. CONTOUR EX. WATER SHUTOFF PROP. CATCH BASIN EX. GATE VALVE PROP. MANHOLE EX. SIGN PROP. END SECTION EX. PEDESTAL EX. TRANSFORMER _____ PROP. SANITARY SEWER PROP. WATER MAIN EX. LIGHT POLE PROP. GATE VALVE PROP. HYDRANT PROP. SAN. STR. NUMBER PROP. STM. STR. NUMBER PROP. GATE VALVE NUMBER PROP. HYDRANT NUMBER PITCH IN CURB AND GUTTER PITCH OUT CURB AND GUTTER CROSS-ACCESS EASEMENT

<u>LEGEND</u>

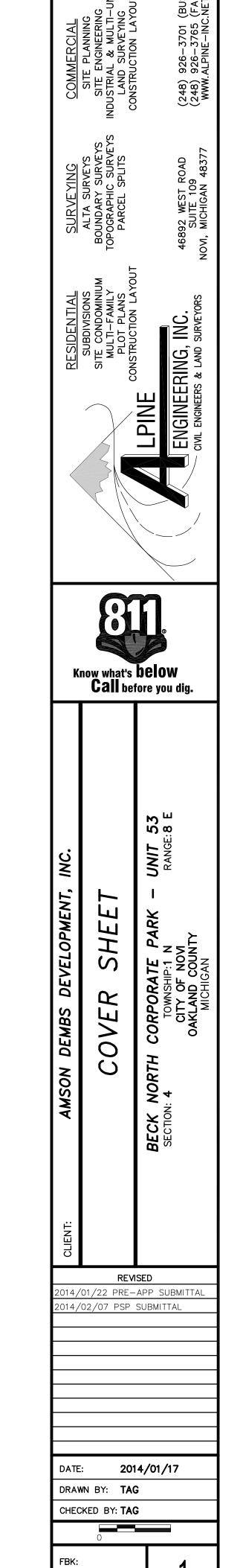
SHEET INDEX

1 COVER SHEET
2 PRELIMINARY SITE PLAN
3 TOPOGRAPHIC SURVEY
4 PRELIMINARY GRADING PLAN
5 PRELIMINARY UTILITY PLAN
6 PRELIMINARY STORM WATER MANAGEMENT PLAN
7 PRELIMINARY TRUCK CIRCULATION PLAN
8 DETAIL SHEET

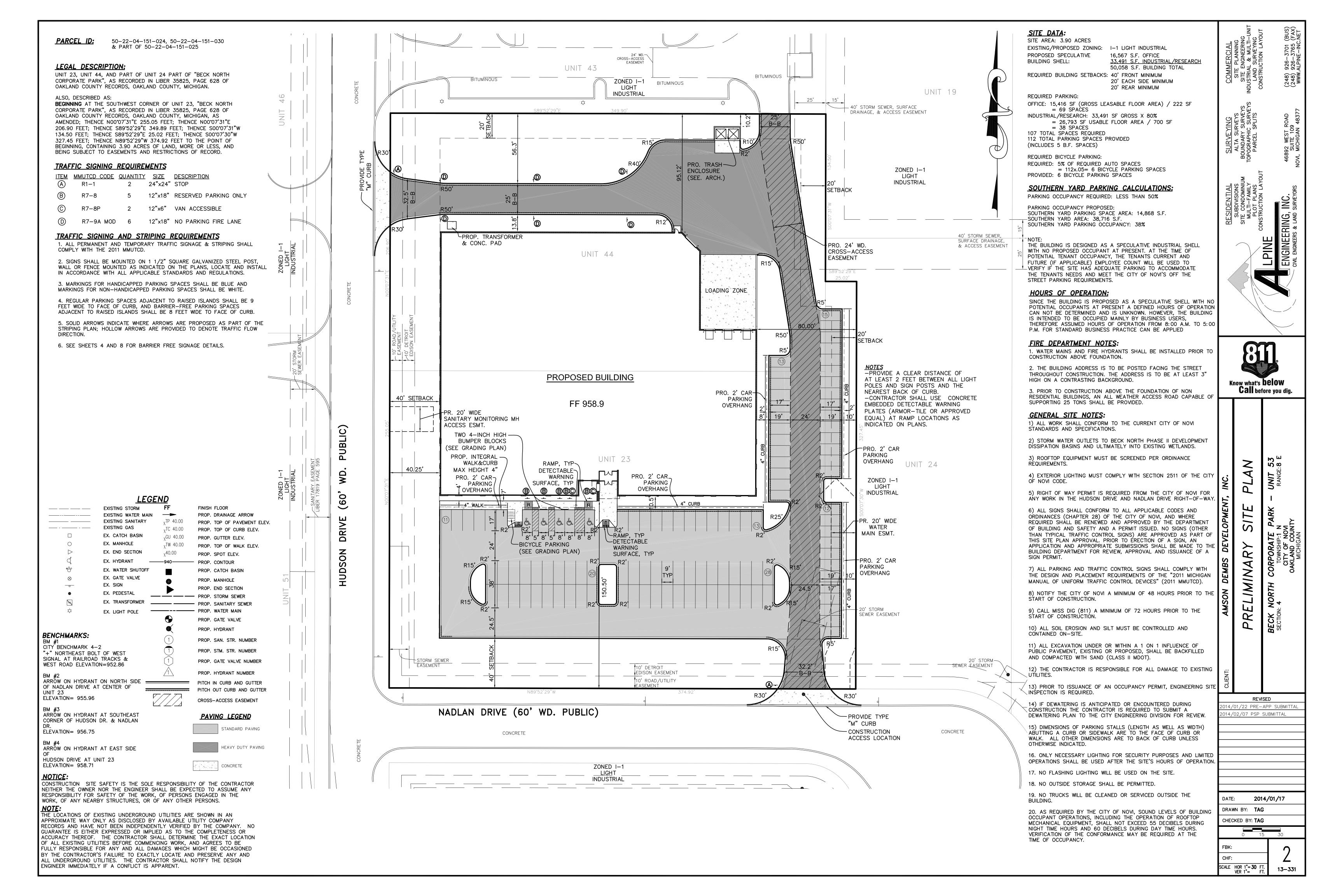
ALLEN DESIGN
L-1 LANDSCAPE PLAN
L-2 LANDSCAPE DETAILS

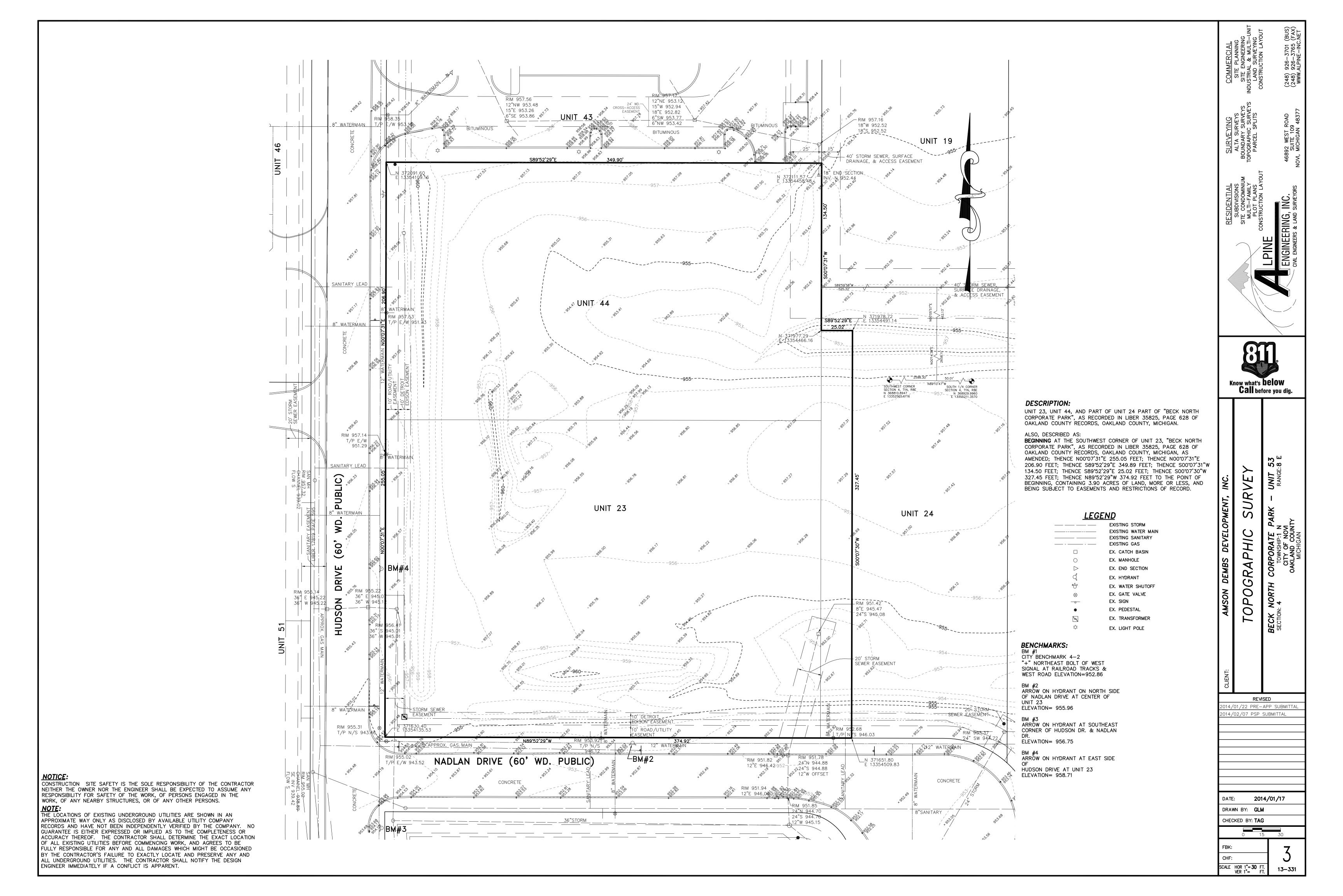
FAUDIE ARCHITECTURE
PFP-6 PRELIMINARY FLOOR PLAN

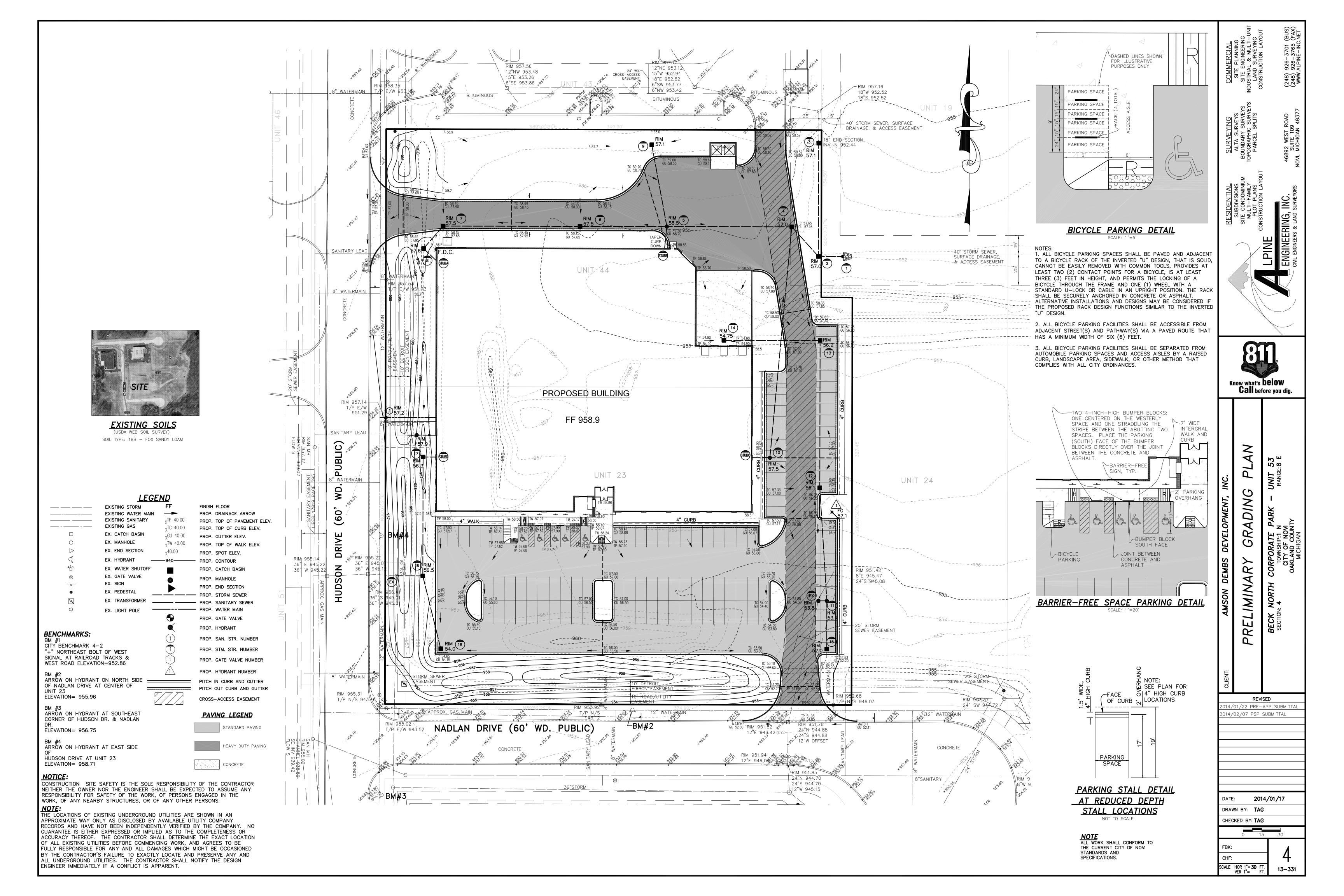
PE-3 PRELIMINARY ELEVATIONS

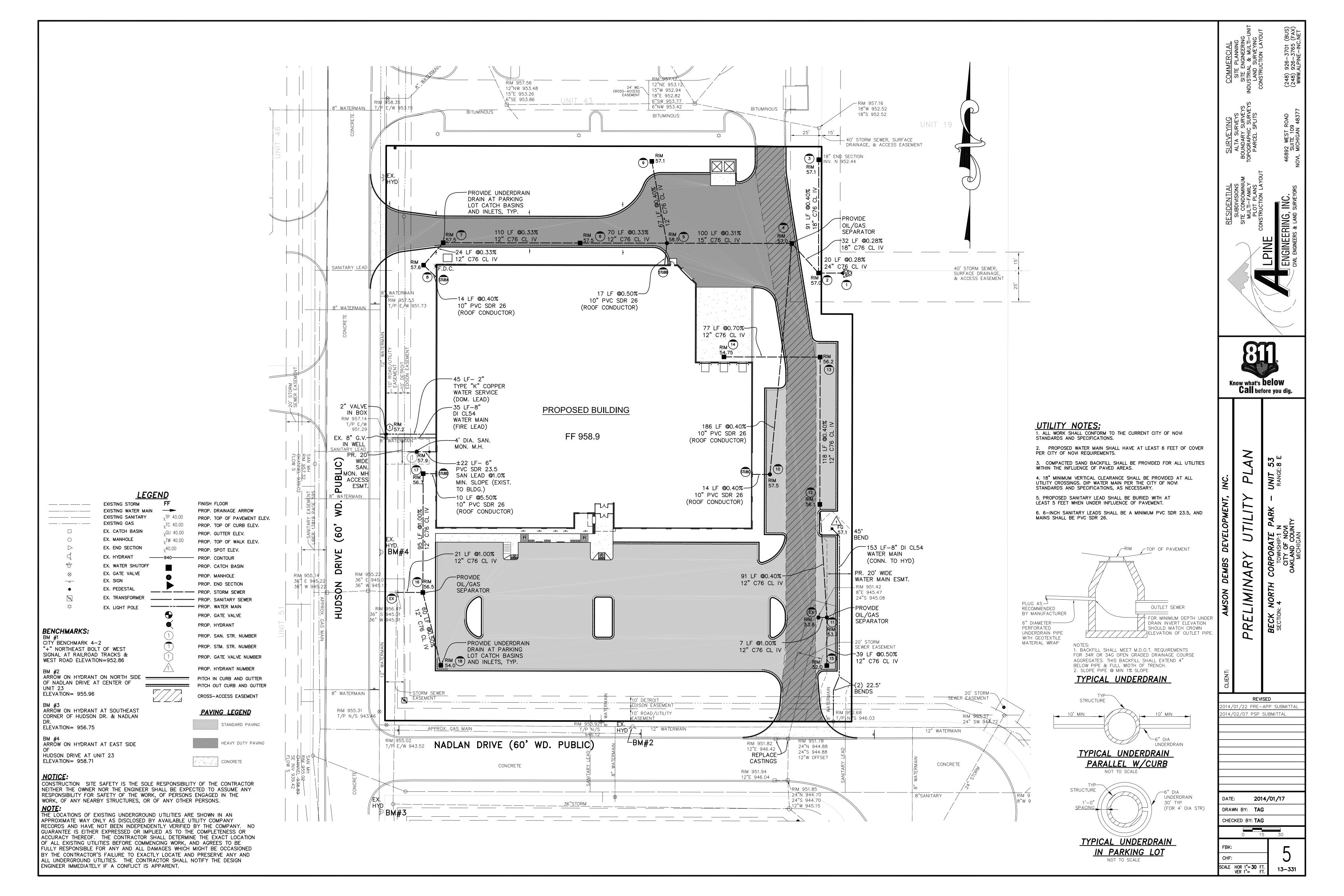


SCALE HOR 1"= F1 VER 1"= F1









345464C.

PHYSICAL PROPERTIES OF HDPE COMPOUND

referenced in ASTM D 1505.

1238- Condition 190/2.16.

1693 (condition C).

of each end.

HDPE top.

A. Excavation and Bedding

INSTALLATION

SUBMITTALS

approval.

QUALITY CONTROL INSPECTION

soundness, etc.

inspect repairs.

accepted welding practices.

must be included in the submittal.

a) Density - the density shall be no less than 0.955 g/cm³ as

b) Melt Index - the melt index shall be no greater than 0.15

c) Flex Modulus - flexural modulus shall be 110,000 to less

d) Tensile Strength at Yield - tensile strength shall be 3,000

e) Slow Crack Growth Resistance shall be greater than 100

hours (PENT Test) as referenced in ASTM F 1473 or

greater than 5000 hours (ESCR) as referenced in ASTM D

C. The inlets and outlets shall be extrusion welded on the inside and

The arched baffle wall shall be constructed from HDPE and shall be

accepted welding methods with connections made at 180 degrees

extrusion welded to the interior of the treatment chamber using

outside of the structure using accepted welding practice.

E. HDPE lifting supports may be provided on the exterior of the

Stormwater Treatment System in such a way as to allow the

Stormwater Treatment System during loading, off-loading and

moving operations. The lifting supports shall be constructed as an

integral part of the treatment chamber and extrusion welded using

Top of the treatment chamber shall be built to the requirements of

the drawings. Deep burial applications shall require a reinforced

Reinforced concrete pads spanning the treatment chamber will be

required with traffic rated frames and covers when the Stormwater

Treatment System is used in traffic areas. A professional engineer

The manufacturer upon request can supply anti-flotation/ buoyancy

The trench and trench bottom shall be constructed in accordance

with ASTM D 2321, Section 6, Trench Excavation, and Section 7,

installed on a stable base consisting of 12 inches of Class I stone

materials (angular, crushed stone or rock, crushed gravel; large

void content, containing little or no fines) as defined by ASTM D

The Contractor shall be provided with dimensional drawings and, when

specified, utilize these drawings as the basis for preparation of shop drawings showing details for construction and reinforcing. Shop drawings shall be annotated to indicate all materials to be used and all applicable

standards for materials, required tests of materials and design

assumptions for structural analysis. Shop drawings shall be prepared at a

scale of not less than 1/4 inch per foot. Three (3) hard copies of said shop

drawings shall be submitted to the Specifying Engineer for review and

The quality of materials, the process of manufacture, and the

Engineer. Such inspection may be made at the place of

finished sections shall be subject to inspection by the Specifying

manufacture, or on the work site after delivery, or at both places.

conditions fail to meet any of the specification requirements, even

though sample sections may have been accepted as satisfactory at

the place of manufacture. Sections rejected after delivery to the

site shall be marked for identification and shall be removed from

the site at once. All sections, which are damaged beyond repair

after delivery will be rejected and, if already installed, shall be

or removed and replaced, entirely at the Contractor's expense.

repaired to the Specifying Engineer's acceptance level, if permitted,

All sections shall be inspected for general appearance, dimensions,

Structural defects may be repaired, subject to the acceptance of

the Specifying Engineer, after demonstration by the manufacturer

that strong and permanent repairs will be made. The Specifying

Engineer before final acceptance of the components shall carefully

The sections shall be subject to rejection at any time if material

2321, Section 5, Materials, and compacted to 95% proctor density.

Installation. The HDPE Stormwater Treatment System shall be

calculations. In addition, typical drawings of the AquaShield

Stormwater Treatment System with concrete anti-flotation

The contractor shall provide the anti-flotation structures.

shall approve the design of the concrete pad and the calculations

prevention of undue stress to critical components of the

to less than 3,500 psi as referenced in ASTM D 638.

than 160,000 psi as referenced in ASTM D 790.

g/10 minutes when tested in accordance with ASTM D

C when tested in accordance with ASTM D 2837. g) Color – black with minimum 2% carbon black.

REJECTION - The Stormwater Treatment System may be rejected

for failure to meet any of the requirements of this specification.

f) Hydrostatic Design Basis shall be 1,600 psi at 23 degrees

PERFORMANCE

- A. The Stormwater Treatment System shall include a -inch inner diameter (ID) circular hydrodynamic flow-through treatment chamber to treat the incoming water. A tangential inlet shall be DISSIPATION provided to induce a swirling flow pattern that will cause sedimentary solids to accumulate in the bottom center of the chamber in such a way as to prevent re-suspension of captured particles. An arched baffle wall shall be provided in such a way as to prevent floatable liquid oils and solids from exiting the treatment chamber while enhancing the swirling action of the stormwater.
- B. The Stormwater Treatment System shall have a sediment storage capacity of ___ cubic feet and be capable of capturing ____ gallons of petroleum hydrocarbons. The Stormwater Treatment System shall have a treatment capacity of _____ cubic feet per second (cfs). The Stormwater Treatment System shall be capable of removing floating trash and debris, floatable oils and 80% of total suspended solids from stormwater entering the treatment chamber.
- Service access to the Stormwater Treatment System shall be provided via 30-inch inner diameter (ID) access riser(s) over the treatment chamber such that no confined space entry is required to perform routine inspection and maintenance functions.

TREATMENT CHAMBER CONSTRUCTION

- A. The treatment chamber shall be constructed from solid wall highdensity polyethylene (HDPE) ASTM F 714 cell class 345464C. For sizes above 63-inch OD, the treatment chamber shall be constructed from profile wall HDPE ASTM F 894 RSC 250 pipe or solid wall HDPE.
- B. The bottom thickness of the treatment chamber will be determined in accordance with ASTM F 1759. Calculations must be provided to justify the thickness of the bottom.

All required safety precautions for Stormwater Treatment System installation are the responsibility of the Contractor.

- Backfill materials shall be Class I or II stone materials (well graded gravels, gravelly sands; containing little or no fines) as defined by ASTM D 2321, Section 5, Materials and compacted to 90% proctor density. Class I materials are preferred. Backfill and bedding materials shall be free of debris. Backfilling shall conform to ASTM F 1759, Section 4.2, "Design Assumptions". Backfill shall extend at least 3.5 feet beyond the edge of the Swirl Concentrator for the full height to sub grade and extend laterally into undisturbed soils.
- Pipe couplings to and from the Stormwater Treatment System shall be Fernco[®], Mission[™] or equal type flexible boot with stainless steel tension bands. A metal sheer guard shall be used to protect the flexible boot.

DIVISION OF RESPONSIBILITY

- Stormwater Treatment System Manufacturer The Manufacturer shall be responsible for delivering the Stormwater Treatment System to the site. The system includes the treatment chamber with debris baffle, inlet and outlet stub-outs, lifting supports, 30-inch ID service access riser(s) to grade with temporary cover, and manhole frame(s) and cover(s).
- The Contractor shall be responsible for preparing the site for the structures can also be provided. Anti-flotation structure design and system installation including, but not limited to, temporary shoring, approval are ultimately the responsibility of the specifying engineer. excavation, cutting and removing pipe, new pipe, bedding, and compaction. The Contractor shall be responsible for furnishing the means to lift the system components off the delivery trucks. The Contractor shall be responsible for providing any concrete antifloatation/anti-creep restraints, anchors, collars, etc. with any straps or connection devices required. The Contractor shall be responsible for field cutting, if necessary, HDPE service access risers to grade. The Contractor shall be responsible for sealing the pipe connections to the Stormwater Treatment System, backfilling

and furnishing all labor, tools, and materials needed.

Aqua-Swirl™ Sizing Chart (English)

	Aqua-Swirl™ Model	Swirl Chamber Diameter	Maximum Stub-Out Pipe Outer Diameter (in.)		Water Quality Treatment Flow ²	Oil/Debris Storage Capacity	Sediment Storage Capacity (ft ³)	
L		(ft.)			(cfs)	(gal)		
	AS-2	2.50	On/Offline 8	CFD ¹ 12	1.1	37	10	
	AS-3	3.25	10	16	1.8	110	20	
	AS-4	4.25	12	18	3.2	190	32	
	AS-5	5.00	12	24	4.4	270	45	
	AS-6	6.00	14	30	6.3	390	65	
	AS-7	7.00	16	36	8.6	540	90	
	AS-8	8.00	18	42	11.2	710	115	
	AS-9	9.00	20	48	14.2	910	145	
	AS-10	10.0	22	54	17.5	1130	180	
	AS-12	12.0	24	48	25.2	1698	270	
	AS-XX*	Custom			>26			
_	*Higher water quality to	reatment flow rates can	be designed wi	ith multiple	swirls.		•	

- 1) The **Agua-Swirl™ Conveyance Flow Diversion (CFD)** provides full treatment of the "first flush," while the peak design storm is diverted and channeled through the main conveyance pipe. Please refer to your local representative for
- 2) Many regulatory agencies are establishing "water quality treatment flow rates" for their areas based on the initial movement of pollutants into the storm drainage system. The treatment flow rate of the Aqua-Swirl™ system is engineered to meet or exceed the local water quality treatment criteria. This "water quality treatment flow rate" typically represents approximately 90% to 95% of the total annual runoff volume.

The design and orientation of the Aqua-Swirl™ generally entails some degree of customization. For assistance in design and specific sizing using historical rainfall data, please refer to an AquaShield™ representative or visit our website at www.AquaShieldInc.com. CAD details and specifications are available upon request

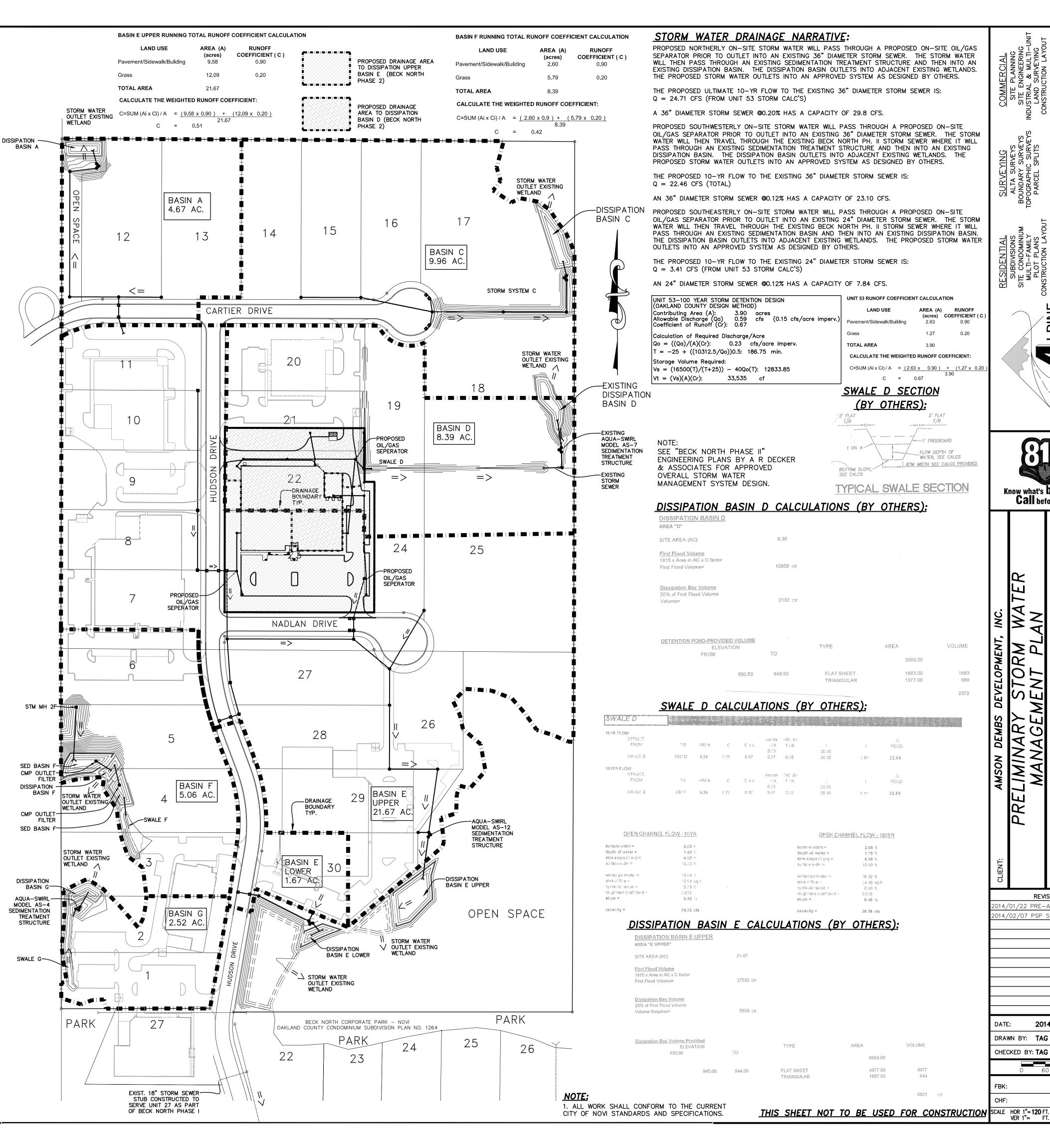
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY NOTICE:

ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF

ANY NEARBY STRUCTURES, OR OF ANY

OTHER PERSONS.



Know what's **below**

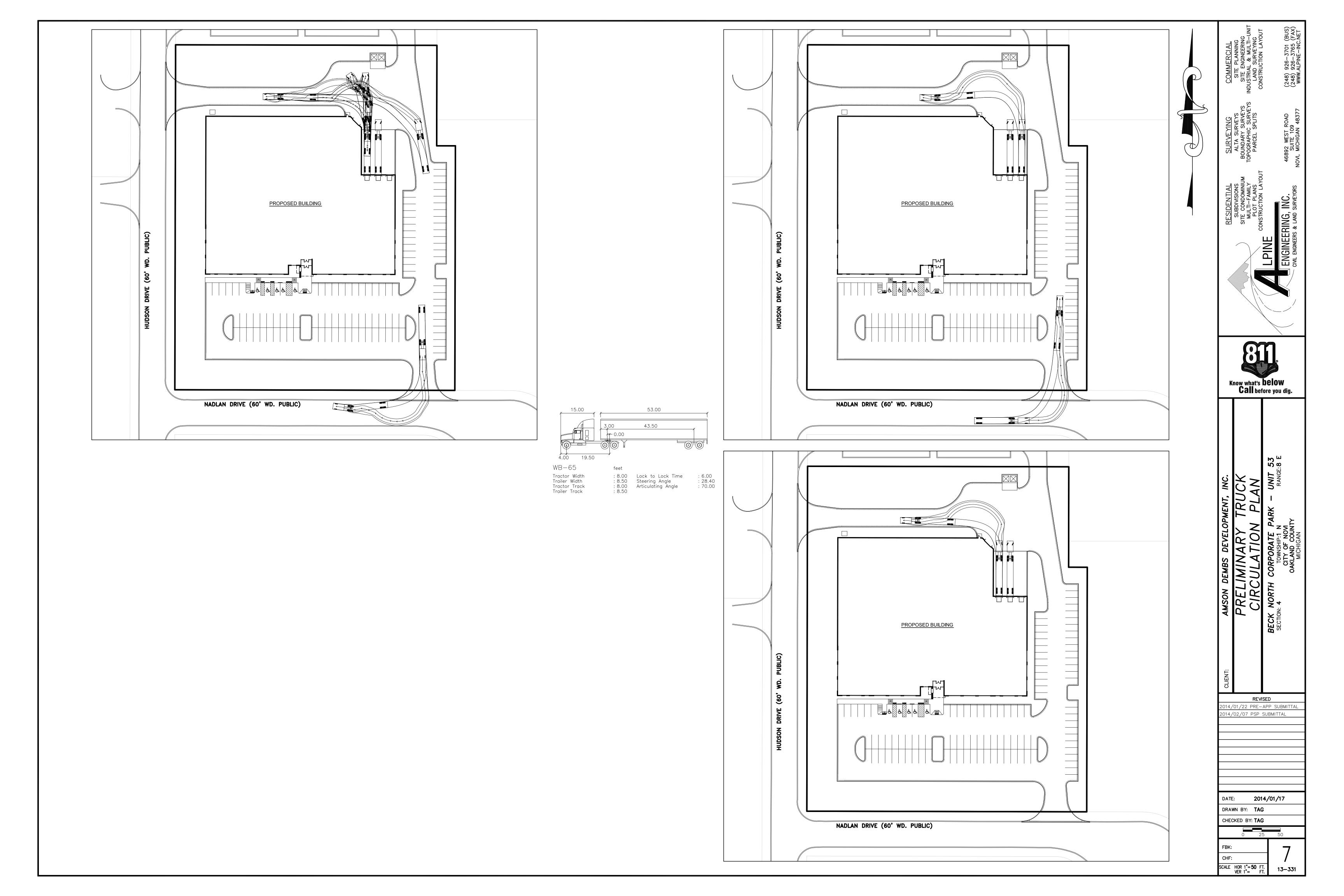
Call before you dig.

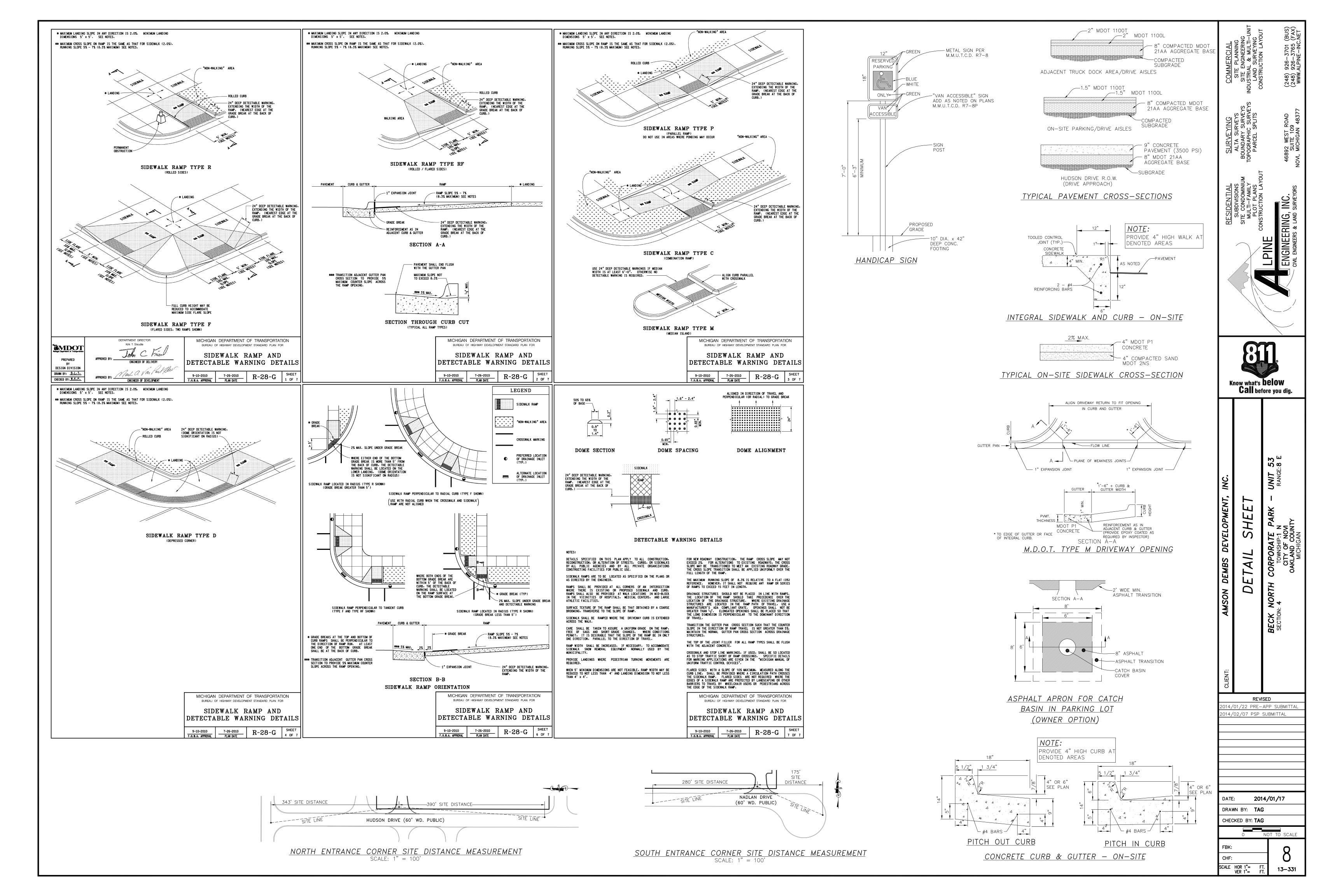
REVISED

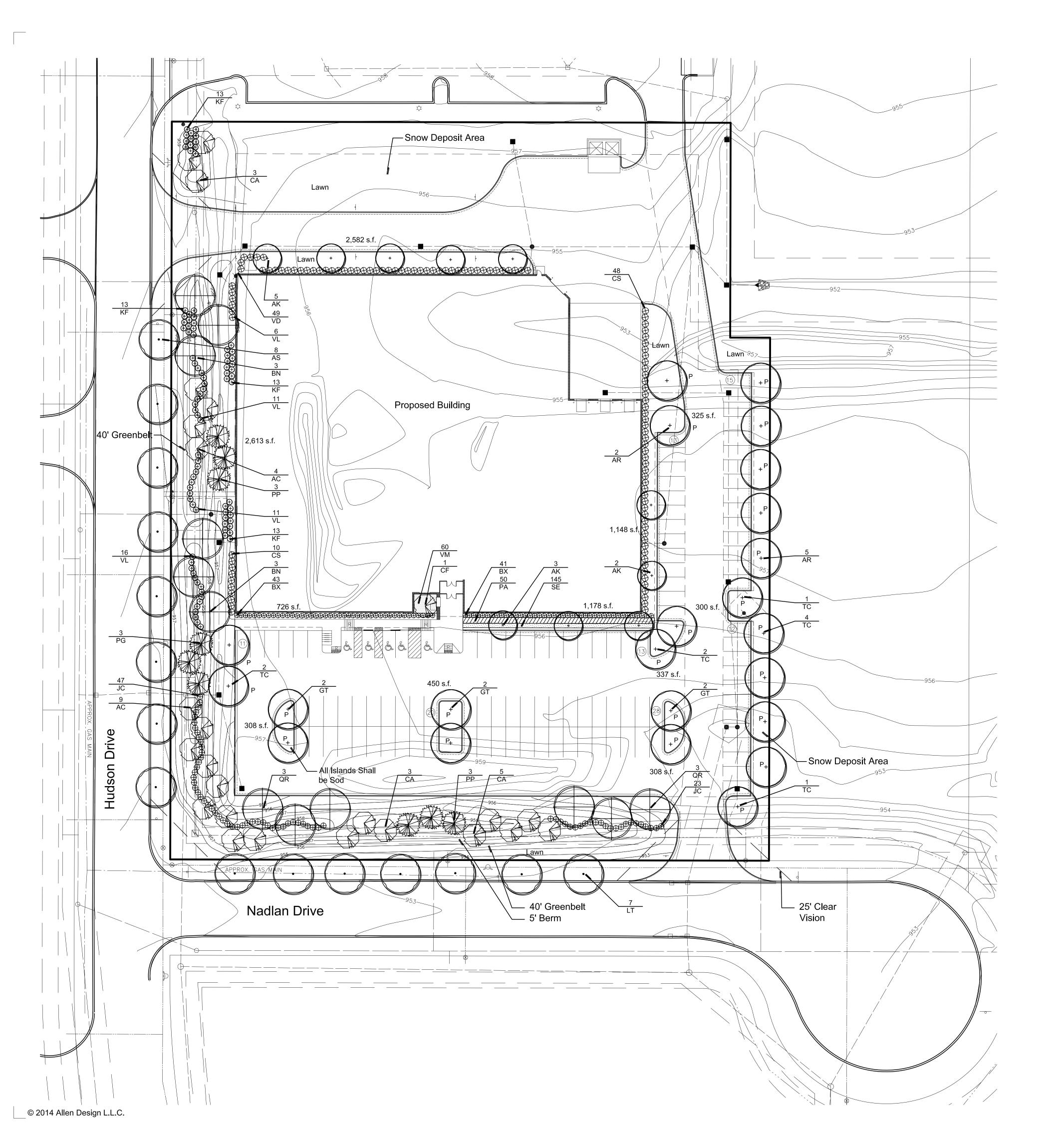
14/01/22 PRE-APP SUBMITTAL

2014/01/17

014/02/07 PSP SUBMITTAL









Existing Zoning

Parking Lot Landscaping Parking Space Area Vehicular Use Area

18,485 s.f. 22,860 s.f. 1,751 s.f.

I-1

23 Trees

22,860 s.f. x 2% = 457 s.f.Landscape Area Shown

Landscape Area Required $18,485 \text{ s.f. } \times 7\% = 1,294 \text{ s.f.}$

2,028 s.f. Canopy Trees Required 23 Trees (1,751 / 75) Canopy Trees Shown

Parking Lot Perimeter

Perimeter 637 l.f.

Trees Required 18 Trees (637 l.f. / 35') Trees Shown 19 Trees

Building Foundation Landscaping

925 l.f. Perimeter of Building 7,400 s.f. (925 l.f. x 8') Landscape Area Required Landscape Area Shown 8,247 s.f.

Greenbelt Plantings

Hudson Drive Street Frontage 461 l.f. 11.5 Trees (461 l.f. / 40') Trees Required Trees Shown 12 Trees 13.3 Trees (461 l.f. / 35')

Sub-Canopy Trees Required Sub-Canopy Trees Shown 13 Trees Nadlan Drive

Street Frontage 374 l.f. Trees Required 9.4 Trees (374 l.f. / 40') Trees Shown 9 Trees Sub-Canopy Trees Required 10.6 Trees (374 l.f. / 35')

Sub-Canopy Trees Shown 11 Trees Street Lawn

Hudson Drive Street Frontage 461 l.f. 8 Trees (461 l.f. / 55') Trees Required 8 Trees Trees Shown

Street Lawn Nadlan Drive

Street Frontage 374 l.f. Trees Required 7 Trees (374 l.f. / 55') Trees Shown 7 Trees

sym.	qty.	botanical name	common name	caliper	spacing	root	height		price	total
AC	13	Amelanchier canadensis 'Shadblow'	Shadblow Serviceberry	2.5"	as shown	B&B		\$	250.00	\$ 3,250.0
AK	10	Acer x. freemanii 'Armstrong'	Armstrong Maple	3.0"	as shown	B&B		\$	400.00	\$ 4,000.00
AR	7	Acer rubrum	Red Maple	3.0"	as shown	B&B		\$	400.00	\$ 2,800.00
AS	8	Acer saccharum	Sugar maple	3.0"	as shown	B&B		\$	400.00	\$ 3,200.00
BN	6	Betula nigra	River Birch	3.0"	as shown	B&B		\$	400.00	\$ 2,400.00
BX	84	Buxus microphylla	Boxwood		as shown		24"	\$	40.00	\$ 3,360.00
CA	11	Cornus alternifolia	Alternate Leaf Dogwood	2.5"	as shown	B&B		\$	250.00	\$ 2,750.00
CF	1	Cornus florida 'Cherokee Princess'	Sno-White Dogwood	2.5"	as shown	B&B		\$	250.00	\$ 250.00
CS	58	Cornus sericea	Red Osier Dogwood		as shown		30"-36"	\$	50.00	\$ 2,900.00
GT	6	Gleditsia triacanthos v. 'Inermis'	Honeylocust	3.0"	as shown	B&B		\$	400.00	\$ 2,400.00
JC	70	Juniperus s. 'Broadmoor'	Broadmoor Juniper		as shown		24" Spread	\$	40.00	\$ 2,800.00
KF	52	Calamagrostis x acutiflora 'Karl Forester'	Karl Forester's Feather Reed Grass		Full, well rooted 1 gal.			\$	15.00	\$ 780.00
LT	7	Liriodendron tulipifera	Tulip Tree	3.0"	as shown	B&B		\$	400.00	\$ 2,800.00
PA	50	Pennisetum alopecuroides 'Hamlin'	Dwarf Fountain Grass		Full, we	ell roote	d 1 gal.	\$	15.00	\$ 750.00
PG	3	Picea glauca	White Spruce		as shown	B&B	8'	\$	350.00	\$ 1,050.00
PP	6	Picea pungens	Colorado Spruce		as shown	B&B	8'	\$	350.00	\$ 2,100.00
QR	6	Quercus rubra	Red Oak	3.0"	as shown	B&B		\$	400.00	\$ 2,400.00
SE	145	Sedum x 'Autmn Joy'	Autumn Joy Sedum		Full, we	ell roote	d 1 gal.	\$	15.00	\$ 2,175.00
TC	10	Tilia cordata 'Greenspire'	Greenspire Linden	3.0"	as shown	B&B		\$	400.00	\$ 4,000.00
VD	49	Viburnum dentatum	Arrowwood Viburnum		as shown		30"-36"	\$	50.00	\$ 2,450.00
VL	33	Viburnum lentago	Nannyberry		as shown		36"	\$	50.00	\$ 1,650.00
VM	60	Vina minor	Blue Myrtle		6" Length			\$	1.00	\$ 60.00
	200	Kentucky Blue Grass, (S.Y.)						\$	6.00	\$ 1,200.00
Mulch										
	75	4" Deep Shredded Hardwood Bark Mulch						\$3	35/s.y.	\$ 2,625.00
		Irrigation								\$ 10,000.00



557 CARPENTER • NORTHVILLE, MI 48167 248.467.4668 • Fax 248.349.0559 Email: jca@wideopenwest.com

Seal:



Landscape Plan

Project:

Lot 53

Novi, Michigan

Prepared for:

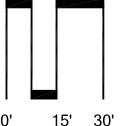
Amson Dems Development, Inc. 46855 Magellan Dr. Novi, Michigan 48377

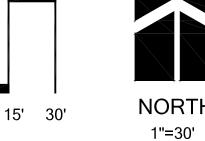
Revision: Issued: January 22, 2014 February 7, 2014

Job Number:

14-001

Drawn By: Checked By:

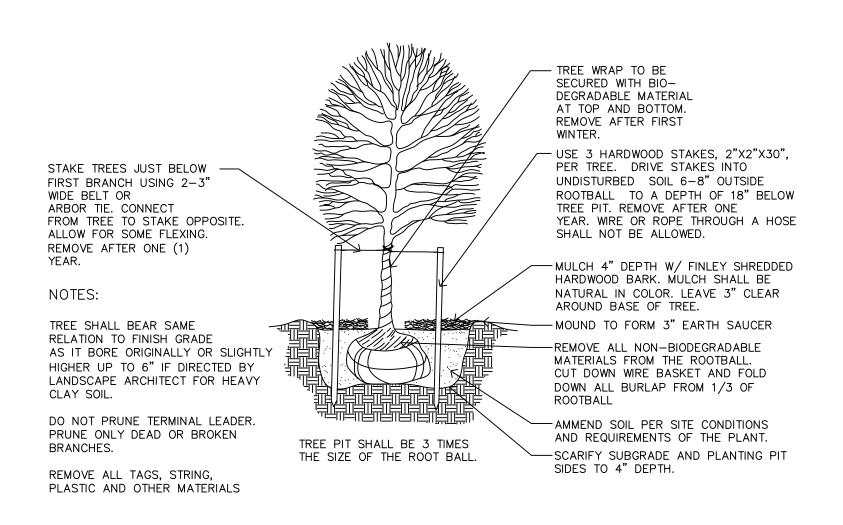






Know what's **below. Call** before you dig.

L-1





WIDE BELT OR

NOTES:

CLAY SOIL.

BRANCHES.

— USE 3 HARDWOOD STAKES, 2"X2"X30", PER TREE. DRIVE STAKES INTO STAKE TREES JUST BELOW -FIRST BRANCH USING 2-3" UNDISTURBED SOIL 6-8" OUTSIDE ARBOR TIE. CONNECT ROOTBALL TO A DEPTH OF 18" BELOW FROM TREE TO STAKE OPPOSITE. TREE PIT. REMOVE AFTER ONE ALLOW FOR SOME FLEXING. YEAR. WIRE OR ROPE THROUGH A HOSE REMOVE AFTER ONE (1) SHALL NOT BE ALLOWED. -MULCH 4" DEPTH W/ FINELY SHREDDED HARDWOOD BARK. MULCH SHALL BE NATURAL IN COLOR. LEAVE 3" CLEAR AROUND BASE OF TREE. TREE SHALL BEAR SAME - MOUND TO FORM 3" EARTH SAUCER RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY -REMOVE ALL NON-BIODEGRADABLE HIGHER UP TO 6" IF DIRECTED BY MATERIALS FROM THE ROOTBALL. LANDSCAPE ARCHITECT FOR HEAVY CUT DOWN WIRE BASKET AND FOLD DOWN ALL BURLAP FROM 1/3 OF DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN -AMMEND SOIL PER SITE CONDITIONS AND REQUIREMENTS OF THE PLANT. -SCARIFY SUBGRADE AND PLANTING PIT REMOVE ALL TAGS, STRING, SIDES TO 4" DEPTH. PLASTIC AND OTHER MATERIALS TREE PIT SHALL BE 3 TIMES THE SIZE OF THE ROOT BALL.

LANDSCAPE NOTES

1. All plants shall be north Midwest American region grown, No. 1 grade plant materials, and shall be true to name, free from physical damage and wind burn.

DECIDUOUS TREE PLANTING DETAIL

- 2. Plants shall be full, well-branched, and in healthy vigorous growing
- condition. Plants shall be watered before and after planting is complete.
- 4. All trees must be staked, fertilized and mulched and shall be guaranteed to exhibit a normal growth cycle for at least two (2) full years following City approval.
- 5. All material shall conform to the guidelines established in the most recent edition of the American Standard for Nursery Stock.
- Provide clean backfill soil, using material stockpiled on site. Soil shall be
- screened and free of any debris, foreign material, and stone. "Agriform" tabs or similar slow-release fertilizer shall be added to the
- planting pits before being backfilled. 8. Amended planting mix shall consist of 1/3 screened topsoil, 1/3 sand and
- 1/3 peat, mixed well and spread to the depth as indicated in planting details.
- All plantings shall be mulched per planting details located on this sheet. 10. The Landscape Contractor shall be responsible for all work shown on the
- landscape drawings and specifications. 11. No substitutions or changes of location, or plant types shall be made
- without the approval of the Landscape Architect. 12. The City of Novi's Landscape Architect shall be notified of any discrepancies between
- the plans and field conditions prior to installation. 13. The Landscape Contractor shall be responsible for maintaining all plant
- material in a vertical condition throughout the guaranteed period. The Landscape Architect shall have the right, at any stage of the installation, to reject any work or material that does not meet the requirements of the
- plans and specifications, if requested by owner. 15. Contractor shall be responsible for checking plant quantities to ensure quantities on drawings and plant list are the same. In the event of a
- discrepancy, the quantities on the plans shall prevail. 16. The Landscape Contractor shall seed and mulch or sod (as indicated on plans)
- all areas disturbed during construction, throughout the contract limits. 17. A pre-emergent weed control agent, "Preen" or equal, shall be applied
- uniformly on top of all mulching in all planting beds. 18. All landscape areas shall be provided with an underground automatic

19. Sod shall be two year old "Baron/Cheriadelphi" Kentucky Blue Grass grown in a sod

CITY OF NOVI NOTES

NTS

- 1. All landscape islands shall be backfilled with a sand mixture to facilitate drainage.
- 2. All proposed landscape islands shall be curbed. 3. All landscape areas shall be irrigated.
- 4. Overhead utility lines and poles to be relocated as directed by utility company of record. 5. Evergreen and canopy trees shall be planted a minimum of 10' from a fire hydrant, and
- manhole, 15' from overhead wires. 6. All plant material shall be guaranteed for two (2) years after City Approval and shall be installed
- and maintained according to City of Novi standards. Replace Failing Material During the Next
- Approprate Planting Period. 7. All proposed street trees shall be planted a minimum of 4' from both the back of curb and
- proposed walks. 8. All tree and shrub planting beds shall be mulched with shredded hardwood bark, spread to minimum depth of 4". All lawn area trees shall have a 4' diameter circle of shredded hardwood mulch 3" away from trunk. All perennial, annual and ground cover beds shall receive 2" of dark colored bark mulch as indicated on the plant list. Mulch is to be free from debris and
- foreign material, and shall contain no pieces of inconsistent size. 9. All Substitutions or Deviations from the Landscape Plan Must be Approved by the City of Novi Prior to their Installation.

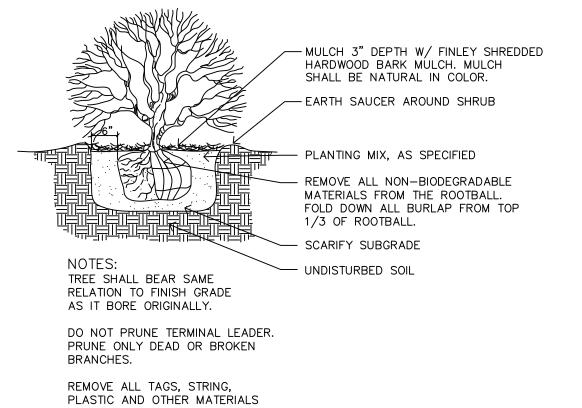
THE APPROXIMATE DATE OF INSTALLATION FOR THE PROPOSED LANDSCAPE WILL BE FALL 2014.

THE SITE WILL BE MAINTAINED BY THE DEVELOPER IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE CITY OF NOVI ZONING ORDINANCE. THIS INCLUDES WEEDING AND WATERING AS REQUIRED BY NORMAL MAINTENANCE PRACTICES.

DEVELOPER SHALL BE RESPONSIBLE FOR

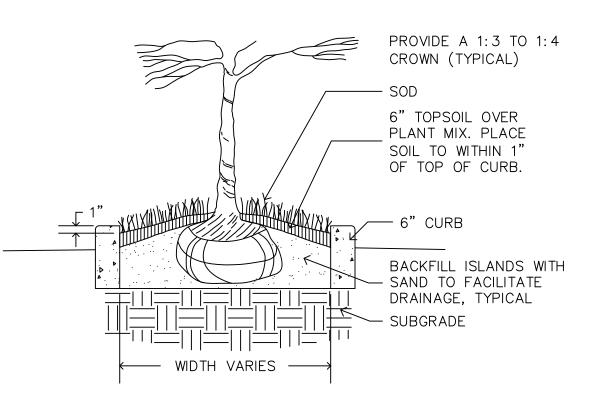
EASEMENTS THAT ARE DAMAGED THROUGH NORMAL MAINTENANCE OR REPAIRS.

PLANT MATERIALS SHALL BE GUARANTEED FOR 2 YEARS AND SHALL BE MAINTAINED IN ACCORDANCE WITH CITY ORDINANCES. WARRENTY PERIOD BEGINS AT THE TIME OF CITY APPROVAL. WATERING AS NECESSARY SHALL OCCUR DURING THIS WARRANTY PERIOD.



SHRUB PLANTING DETAIL

NTS



CURBED ISLAND DETAIL

-PERENNIAL PLANTS SPACED ACCORDING TO PLANTING PLAN -MULCH 2" DEPTH W/ FINELY SHREDDED HARDWOOD BARK MULCH. MULCH SHALL BE NATURAL IN COLOR. -PLANT MIX, 10-12" DEEP -UNDISTURBED SUBGRADE

PERENNIALS TO BE PLANTED UP TO SAUCER AROUND TREE OR SHRUB IN THE AREA.

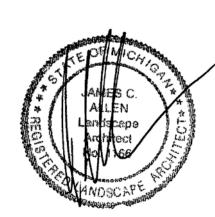
PERENNIAL PLANTING DETAIL

Know what's **below**.

Call before you dig

557 CARPENTER • NORTHVILLE, MI 48167 248.467.4668 • Fax 248.349.0559 Email: jca@wideopenwest.com

Seal:



Landscape Details

Project:

Lot 53

Novi, Michigan

Prepared for:

Amson Dems Development, Inc. 46855 Magellan Dr. Novi, Michigan 48377

Revision: Issued: Submission January 22, 2014 Revised February 7, 2014

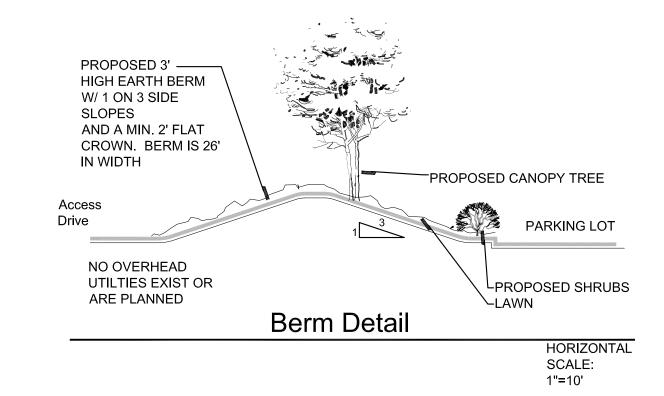
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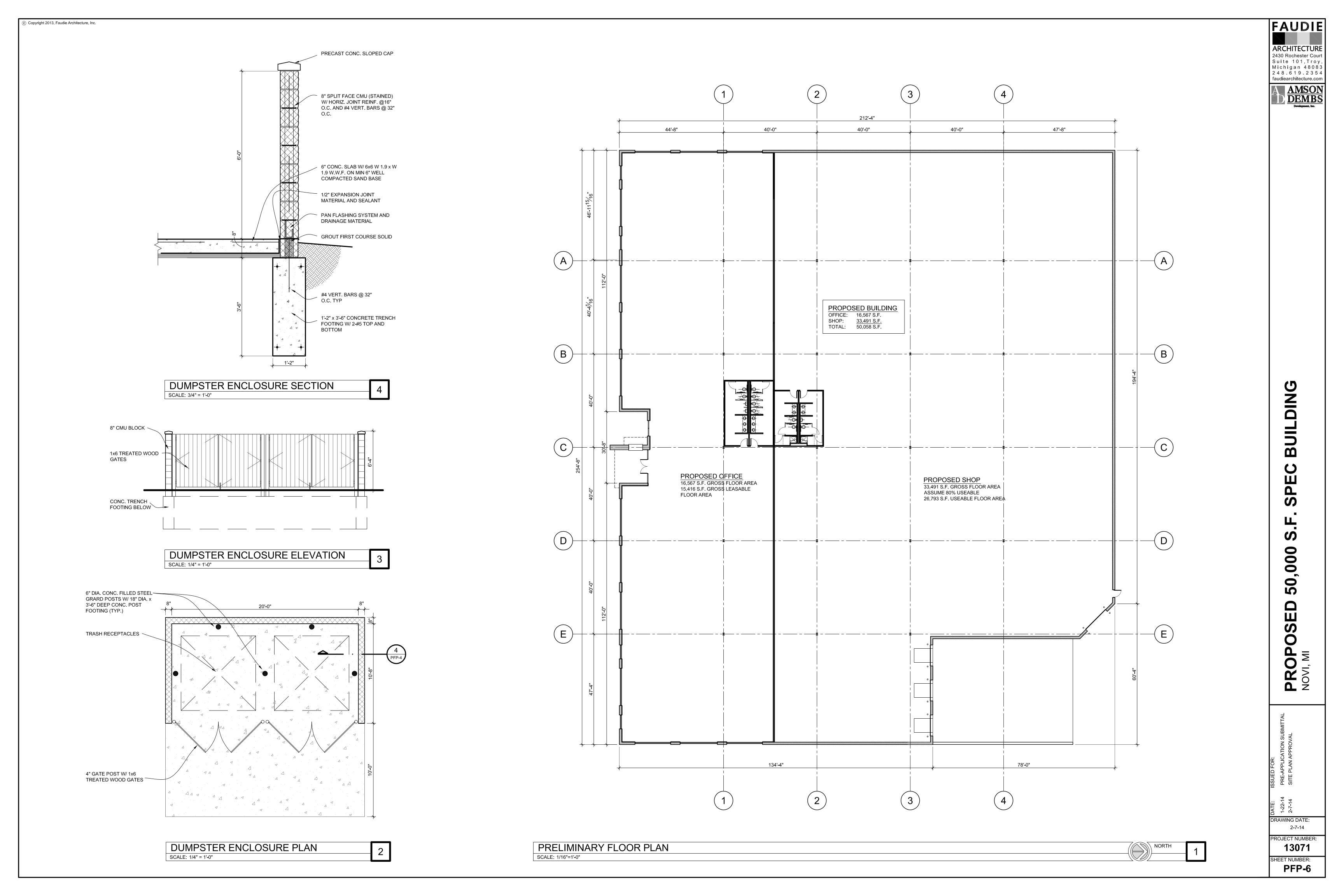
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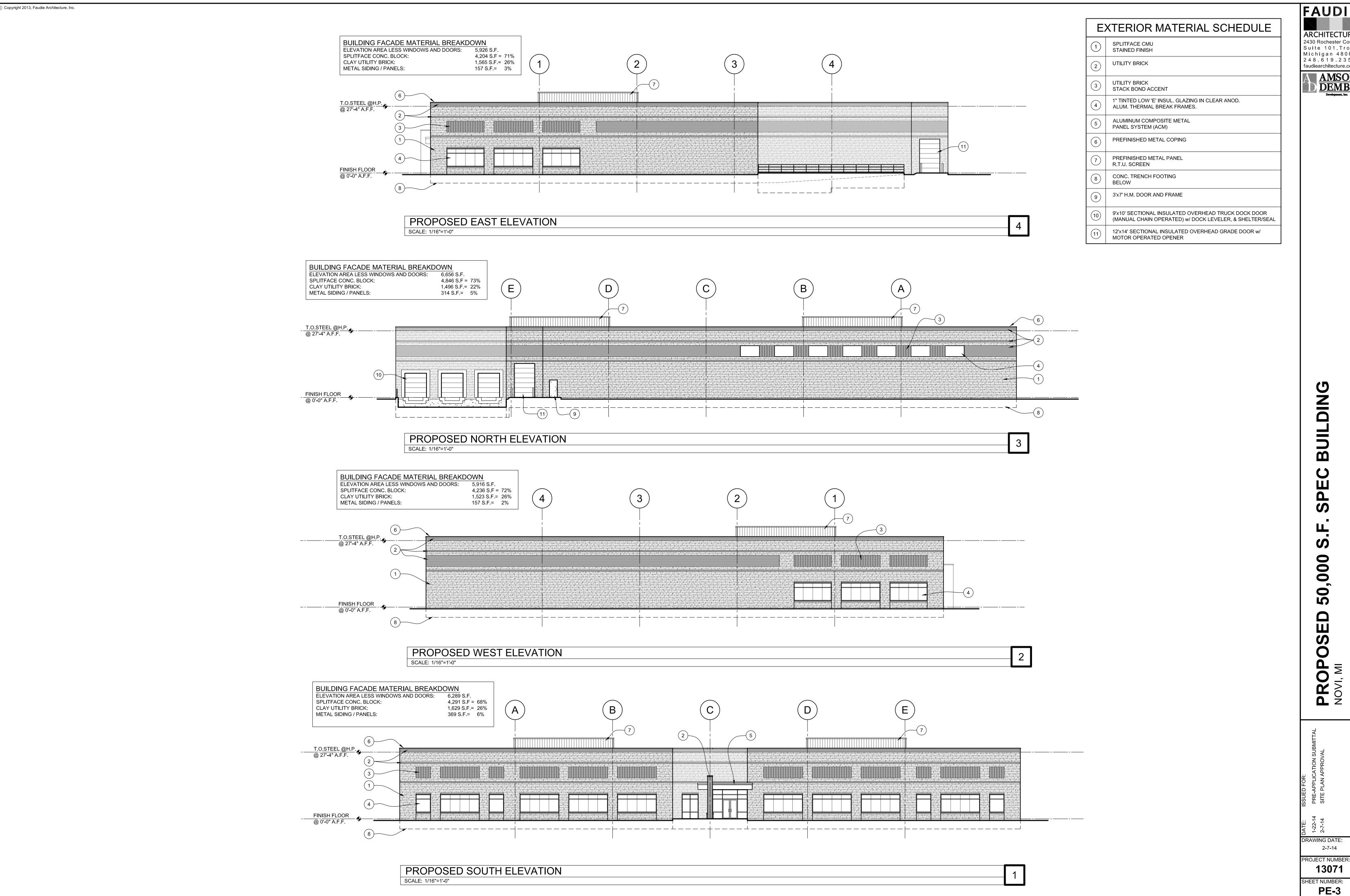
Drawn By: Checked By:

NORTH

Sheet No.







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PROPOSEI NOVI, MI

DRAWING DATE: 2-7-14

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SHEET NUMBER: PE-3