

PL2022-188
PL202200188

6291ABC-13



City Code 19.52(h)

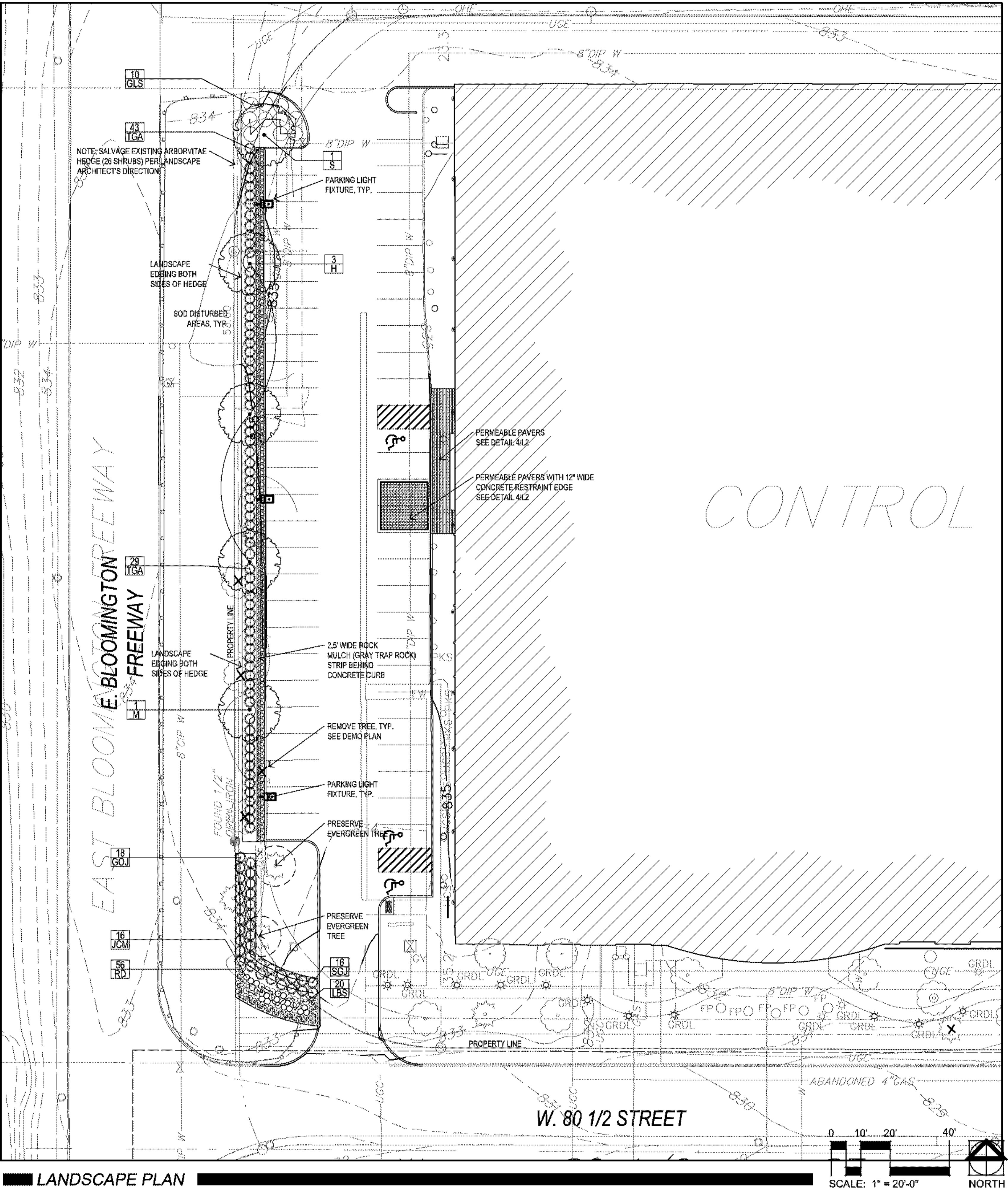
- Unless a modified landscape plan is approved, landscaping and screening materials and structures approved on a landscape plan must not be removed except when replaced in accordance with this Section.
- The property owner must maintain all landscaping and screening materials shown on the approved landscape plan in a manner consistent with the intent and purpose of the plan and City Code requirements.
- Landscaping and screening structures such as fences and walls must be maintained in good condition, free of graffiti, peeling paint, decay or warping, must be repaired when needed and replaced periodically to maintain a structurally sound condition.
- Ground cover must be maintained in accordance with Sections 10.37 – 10.42 of this Code.

APPROVED

By Londell Pease at 12:50 pm, Oct 03, 2013

SYM	QTY.	COMMON NAME	SCIENTIFIC NAME	SIZE	CONT.	COMMENTS
DECIDUOUS TREES						
M	1	MAPLE, GREEN MOUNTAIN SUGAR	Acer saccharum 'Green Mountain'	2 1/2" CAL.	B&B	SINGLE STRAIGHT LEADER
H	3	HACKBERRY	Celtis occidentalis	2 1/2" CAL.	B&B	SINGLE STRAIGHT LEADER
S	1	SERVICEBERRY, AUTUMN BRILLIANCE	Amelanchier x grandiflora 'Autumn Brilliance'	2 1/2" CAL.	B&B	SINGLE STRAIGHT LEADER
DECIDUOUS SHRUBS						
LGS	10	GRO LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-Low'	24" HT.	#5 cont.	5' o.c.
EVERGREEN SHRUBS						
GOJ	18	'GREY OWL' JUNIPER	Juniperus virginiana 'Grey Owl'	24" HT.	#5 cont.	3.5' o.c.
SCJ	16	'SEA GREEN' JUNIPER	Juniperus chinensis 'Sea Green'	24" HT.	#5 cont.	3.5' o.c.
TGA	72	TECHNY GLOBE ARBORVITAE	Thuja occidentalis 'Techny Globe'	24" HT.	#7 cont.	3' o.c.
PERENNIALS						
RD	56	RED DAYLILY MIX	Hemerocallis 'Ruby Stelae', 'Pardon Me', 'Chicago Apache'	12" HT.	#1 CONT.	18" o.c.
JCM	16	MONARDA, JACOB CLINE	Monarda didyma 'Jacob Cline'	12" HT.	#1 CONT.	24" o.c.
LBS	20	LITTLE BLUESTEM	Schizachyrium scoparium	12" HT.	#1 CONT.	24" o.c.

PLANTING SCHEDULE



LANDSCAPE PLAN

TREE PRESERVATION:

1) REMOVE TREES PER DEMOLITION PLAN. PRESERVE TREES NEAR PARKING AS NOTED. SALVAGE EXISTING ARBORVITAE HEDGE AS DIRECTED BY LANDSCAPE ARCHITECT.

GENERAL NOTES:

1) EXISTING IRRIGATION SYSTEM TO BE MODIFIED TO ACCOMMODATE NEW LAYOUT.
2) SNOW STORAGE IS OFF-HAULED TO BACK PARKING LOT AND REMOVED OFF-SITE.

LAYOUT NOTES:

STAKING OF LANDSCAPE & PAVER AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.

Damon Farber Associates



Landscape Architects

Damon Farber Associates
401 Second Avenue North
Minneapolis, Minnesota 55401
phone 612.332.7522
fax 612.332.0936
www.damonfarber.com

Sheet Title

SITE IMPROVEMENTS
FOR:

GN Resound

Bloomington, MN

Certification

I hereby certify that this plan was prepared by me or under my direct supervision and that I am Registered Landscape Architect under the laws of the State of Minnesota.

Name: Tom Whitlock
Registration #: 26292

Signature: Date:

CITY SUBMISSION

Authorization

DFA Project #: 13-180
Drawn/Checked: MJW / JM
Scale: 1" = 20'-0"
Date: 10-01-13
Revision:

LANDSCAPE
PLAN

Sheet #

L1

PL2022-188
PL202200188



Winther + Johnson + Robir
Architects + Designers

8175-B Lewis Road
Golden Valley, Minnesota 55407
Phone: 763-398-0458
Fax: 763-398-0455

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

10/18/05
Date: 10/18/05 Reg. No. 19251

GN RESOUND
UPDATED LANDSCAPE PLAN
8001 EAST BLOOMINGTON FREEWAY

LANDSCAPE NOTES:

- 1 THE OBJECTIVE OF THIS DRAWING IS TO SHOW UPDATING OF THE EXISTING LANDSCAPING. OVER TIME, SINCE THE ORIGINAL PLAN WAS APPROVED, PLANTS HAVE DIED OR BEEN REMOVED FOR A VARIETY OF REASONS INCLUDING PLANT HEALTH, POWER LINE INTERFERENCE, LIGHTNING STRIKE, ETC. THIS PLAN SHOWS REPLACEMENT OF LOST TREES. THE NEW TREES WILL BE SPRUCE AND ONE DECIDUOUS. WHEN THE SPRUCE MATURE THEY WILL ESTABLISH A DENSE SCREEN FOR THE ADJACENT PROPERTIES.
- 2 EXISTING TREES AND LANDSCAPING SHOWN ARE MATURE AND IN THIS PLAN ARE SHOWN AS SCREENED BACK. THE EXISTING LANDSCAPING CONSISTS OF VARIETIES OF DECIDUOUS TREES AND SHRUBS AS WELL AS EVERGREEN TREES AND SHRUBS. ONLY THE TREES ARE SHOWN.
- 3 NEW TREES WILL BE SPRUCE AND WILL BE A MINIMUM OF 6 FEET TALL. THEY ARE INDICATED ON THE PLAN AS DARK LINES IN A RADIUS PATTERN. THEY HAVE BEEN PLACED IN AREAS WHERE THE ORIGINAL TREES WERE REMOVED.
- 4 A NEW DECIDUOUS TREE 2' CALIPER JAPANESE ORNAMENTAL TO MATCH OTHER NEWER PARKING LOT TREES.
- 5 THE AREA THE NEW TREES WILL BE PLANTED IN IS AN ESTABLISHED ROCK MULCH AREA SURROUNDED BY VINYL EDGING. THIS AREA WILL NOT BE CHANGED THROUGH THIS PROJECT.
- 6 THERE IS CURRENTLY A FENCE ALONG THE SOUTH PORTION OF THE EAST PARKING. ON THE WEST END OF THE FENCE RUN IT TURNS SOUTH ALONG THE PROPERTY LINE OF THE ADJACENT PROPERTY. THIS FENCE HAS BEEN REPAIRED OVER THE YEARS AND CONTINUES TO BE REPAIRED AS NEEDED. THE FENCE WILL REMAIN.
- 7 AT THE NORTH WEST CORNER OF THIS SITE, ROAD CONSTRUCTION HAS BEEN GOING ON THROUGHOUT THE SUMMER. THE CONTRACTORS FOR THE ROAD HAVE REMOVED ALL PLANT MATERIAL AND LANDSCAPE WALLS ON THIS CORNER. THEY ARE SCHEDULED TO REPLACE THESE MATERIALS BUT HAVE NOT BEEN FORTHCOMING ON WHAT THEY ARE PLANNING TO PROVIDE. HENCE IT IS DIFFICULT TO RESPOND TO WHAT THE PROPERTY OWNER WILL HAVE TO PROVIDE. AT A MINIMUM THE PROPERTY OWNER IS AWARE FOR A NEED OF A 5 FOOT HIGH VISUAL BARRIER, FENCE OR BERM TO BE SUPPLEMENTED WITH PLANT MATERIAL.

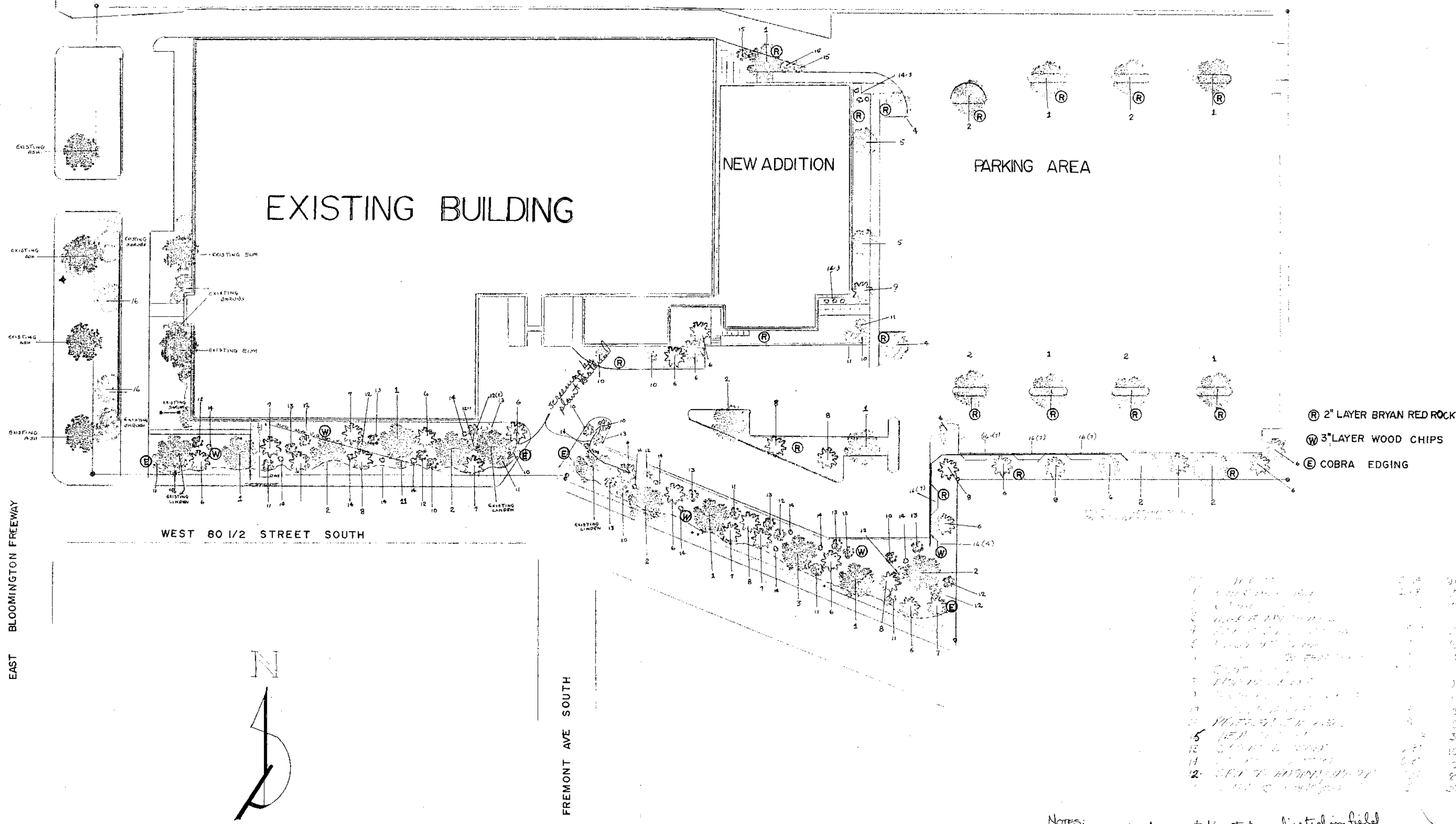
Issues & Revisions:
Origination Date: 10/18/05
Sheet Title:

Location:
BLOOMINGTON
MINNESOTA 55409

Project No.: 05-179-02A
Scale: 1/32" = 1'-0"
Approval:

Approved Plan A1

PL2022-188
PL202200188



LANDSCAPE PLAN

1" = 40' 0"

- Notes:
- 1) evergreen shrubs quantities to be adjusted in field
 - 2) No alterations to approved plan without approval by Dir. of Planning
 - 3) Landscape Architect of record oversees on-site installation of plant material.

CITY OF BLOOMINGTON, MN
LANDSCAPE PLAN APPROVED
By *Colin P. Doyle for ASG*
Director of Planning

Date 5/13/83

Approved

PL2022-188
PL202200188

REVISIONS
DATE
BY
CHECKED

These drawings, specifications, or reports were prepared by me or under my direct supervision and I am a duly Licensed Professional Engineer in the State of Minnesota.
DATE
REG. NO.

CDC/MPS CLEAN ROOM ADDITION
8001 EAST BLOOMINGTON FREEWAY BLOOMINGTON, MINNESOTA

Pope Associates Inc.
Architects • Engineers • Planners
533 St. Clair Avenue St. Paul, MN 55102
(612) 221-1889

Plan

PL2022-188
PL202200188

EXISTING BLDG.

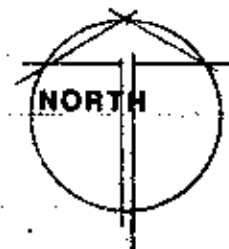
CLEAN RM ADD'N

MECH/ELEC ADD'N

R. R. TIE RETAINING WALL

TOP OF BERM 834

WEST 80 1/2 STREET SO.



PARTIAL SITE PLAN

SCALE 1"=20'-0"

DATE	REVISIONS

DATE	REVISIONS

Drawn by	Checked by
Drawn by	Checked by

Drawn by	Checked by
Drawn by	Checked by

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Drawn by	Checked by

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CITY OF BLOOMINGTON, MN
LANDSCAPE PLAN APPROVED
By *[Signature]*
Director of Planning
Date 5/13/13

Approved

CDC/MPS

5001 EAST BLOOMINGTON FREEWAY, BLOOMINGTON, MINNESOTA

Pope Associates Inc
Architects & Engineers
5001 East Bloomington Freeway, Suite 100, Bloomington, MN 55425
612/291-1884

PL2022-188
PL202200188

EXISTING BUILDING

EAST PARKING AREA

SOUTH PARKING AREA

ENTRANCE

WEST 80 1/2 ST. SOUTH

FREMONT AVENUE SO.

MULCH CLEAN WOODCHIPS 4"
ALL AREAS

MULCH - of CLEAN Wood Chips All Areas
4" thick

VARIETY		QUANTITY	SIZE
1	ACER RUBRUM NORTHWOOD MAPLE	20	1 1/2" DBH
2	FRAXINUS MARSHALLI SEEDLESS	10	1 1/2" DBH
3	ACER SUGAR MAPLE	8	1 1/2" DBH
4	BETULA PAPER BARK CLUMP	4	8" POT
5	MALUS RADIANT CRAB	2	6" POT
6	MUGHO PINUS MUGO MUGHO	37	15" DBH
7	HUGHES JUNIPERUS HORIZONTALIS	38	15" DBH
8	ANDORRA COMPACTA JUN. HORIZONTALIS PLUMOSA	36	15" DBH
9	PRITZER JUNIPERUS CHINENSIS	65	15" DBH
10	MANSYI JUNIPERUS CHINENSIS	24	15" DBH
11	COLORADO GREEN SPRUCE PICEA PUNGENS	28	15" DBH
12	PINE AUSTRIAN PINUS NIGRA	14	15" DBH
13	PINE SCOTCH PINUS SYLVESTRIS	14	15" DBH
14	SPRUKE BLACK HILL PICEA GLAUCA DEUSATA	12	15" DBH
15	SPRUKE COLORADO BLUE PICEA PUNGENS GLAUCA	5	15" DBH
16	SPIREA ANTHONY WATERER X BOMALDA ALB.	76	15" DBH
17	EUCYMYMUS WINGED ALATUS	37	15" DBH
18	DOGWOOD ISANTI CORNUS STOLONIFERA ISANTI	42	15" DBH
19	DOGWOOD LUTEA YEN TUNG STOLONIFERA FLAVIRAMEN	14	15" DBH
20	PRUNUS CISTENA	5	15" DBH
21	MOCKORANGE GOLDEN PHILADELPHUS AUREA	27	15" DBH
22	OSTEOLA VANIGERI	13	15" DBH
23	POTENTILLA CORONATION TRIUMPH. C. FRUITICOSA	28	15" DBH
24	VIBURNUM AMERICANA HIBUSH	7	15" DBH
25	AZALEA MOLLIS HYBRIDS	6	15" DBH
26	COTONEASTER CRANBERRY APICULATA	33	15" DBH
27	AMUR MAPLE DWARF ACER GINNIALA COMPACTA	9	15" DBH
28	SNOWBERRY CHEVALI SYMPHORICARPOS	7	15" DBH
29	HONEYBUCKLE EMERALD MOUND LONICERA XYLSTEU	4	15" DBH
30	CORAGANA SIBIRIAN PEA SHRUB C. ARGORESCENS	3	15" DBH
31	JUNIPER IOWA JUNIPERUS CHINENSIS IOWA	4	15" DBH
32	YEW TAUTON SPREADING TAXUS X MEDIA	5	15" DBH

Approved Plan

DATE	7-18-23
COMD NO.	
DRAWN BY	
CHECKED BY	

REVISIONS

NO.	DATE	DESCRIPTION
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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.

DATE REG. NO.

CDC/MPS CLEAN ROOM ADDITION
8001 EAST BLOOMINGTON FREEWAY BLOOMINGTON, MINN. 55425

Pope Associates Inc.
Architects & Engineers
11111 13th Avenue S. Suite 100
Bloomington, MN 55425
(612) 885-1111

2021

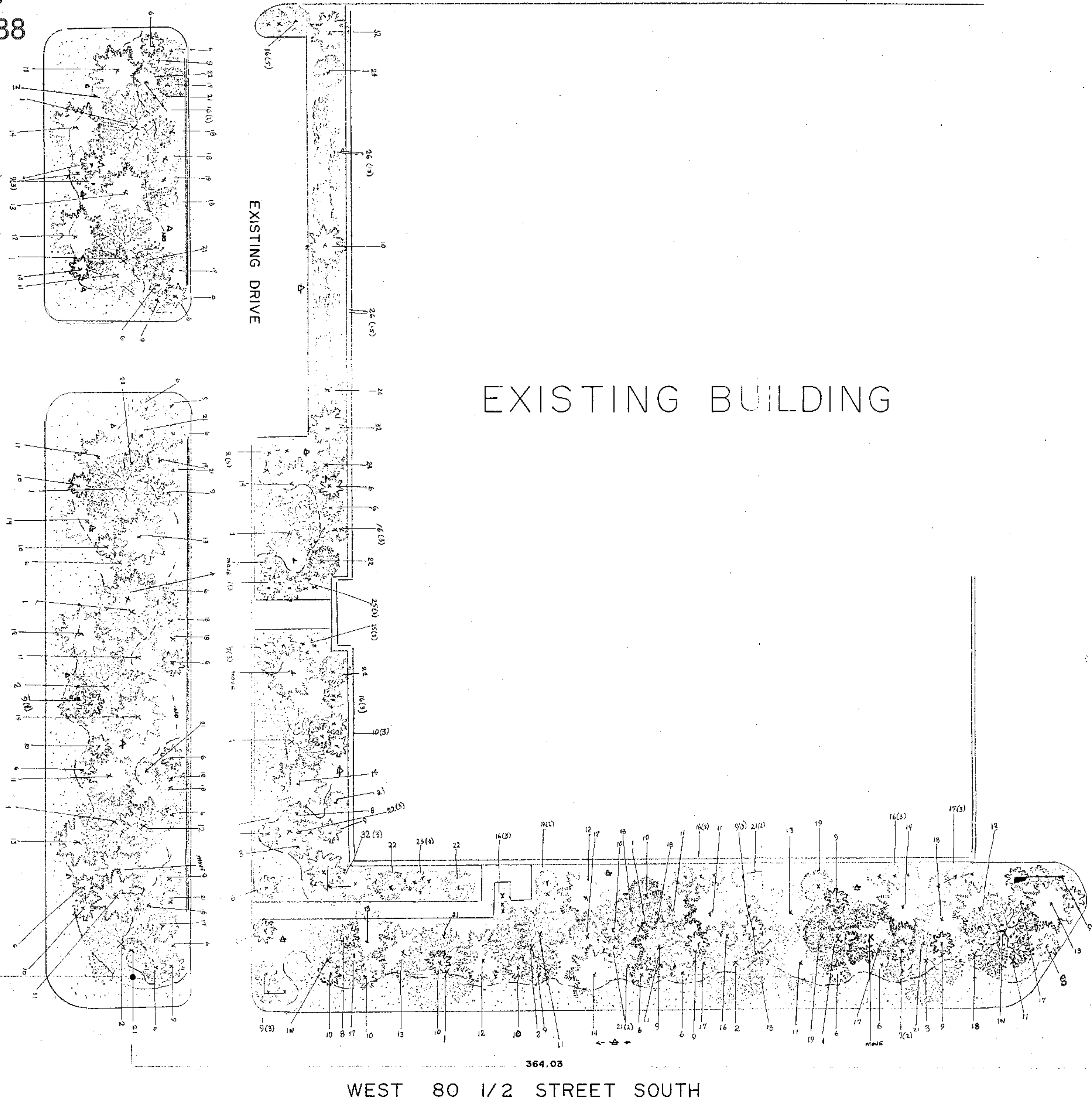
PLAN

PL2022-188
PL202200188

EAST BLOOMINGTON FREEWAY

354.75

ΔΕΔΟΤΑΙ - ΥΠΟΛΕΙΠΟΜΕΝΟ

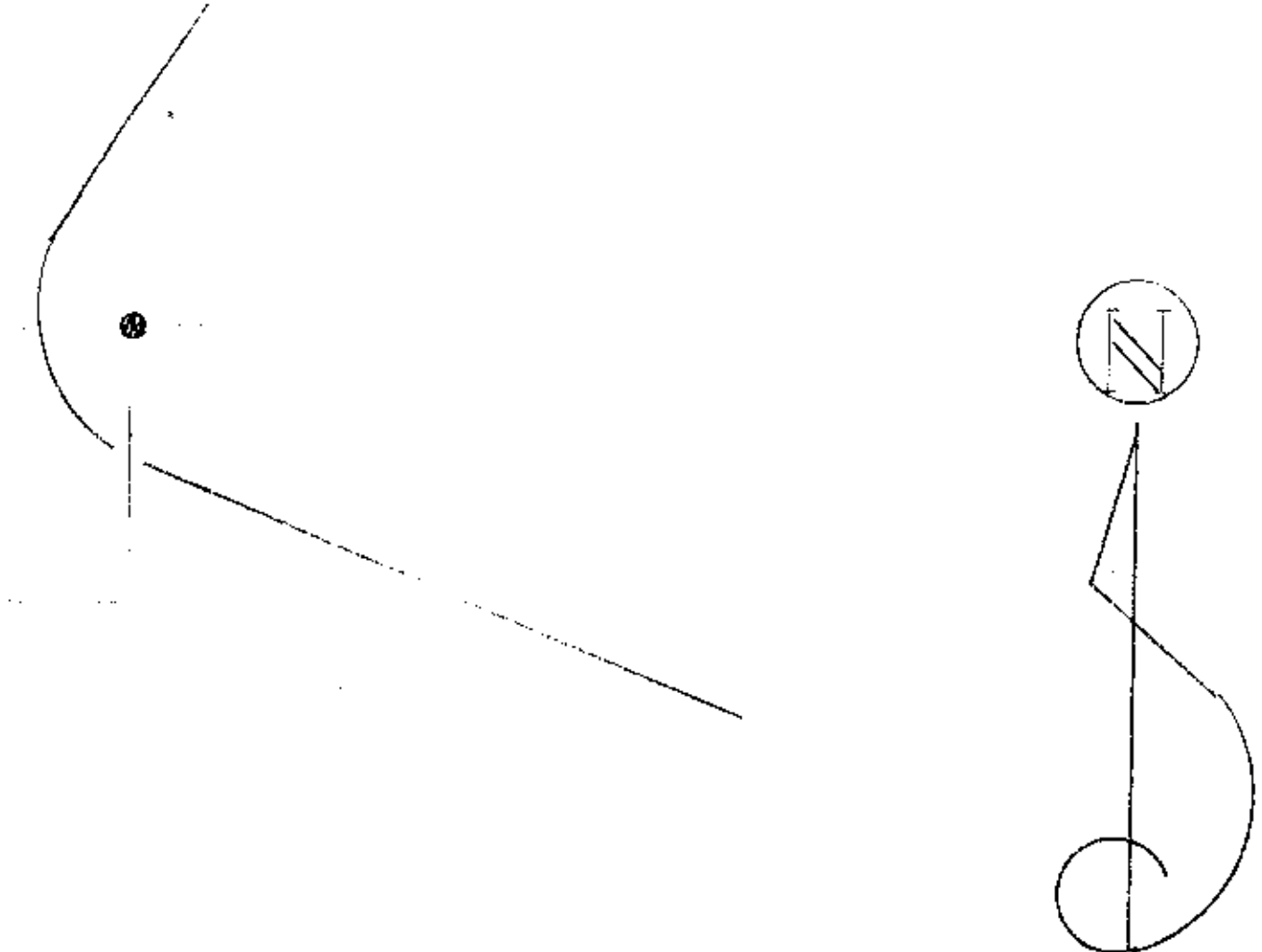

$$\underline{I'' = 20' - 0''}$$

LANDSCAPE PLAN

Key	VARIETY	QUANTITY	SIZE	
1	ACER RUBRA - BATHWOOD	20	1 3/4 - 2"	12-20"
2	FRAXINUS AMERICANA SEEDLESS	10	1 3/4 - 2"	8-10"
3	ACER SUCRINUM MARBLE	8	1 3/4 - 2"	8-10"
4	BETULA PAPERBARK DUMP	4	8-10"	12-20"
5	MALUS FALSA - ANT CRAB	2	6-7"	12-20"
6	MUNDO PINE	27	18-24"	12-20"
7	HUGHES JUNIPER	28	18-24"	12-20"
8	ANDERSON JUNIPER	36	18-24"	12-20"
9	PAITZER JUNIPER GREEN	63	18-24"	12-20"
10	MAUEY JUNIPER	25	18-24"	12-20"
11	COLORADO BLUE SPRUCE	274 (128)	3 1/2 - 4"	12-20"
12	AUSTRIAN PINE	14-16 (18)	3 1/2 - 4"	12-20"
13	SCOTCH PINE	14-16 (18)	3 1/2 - 4"	12-20"
14	BLACK HILLS PINE	12-13 (15)	3 1/2 - 4"	12-20"
15	COLORADO BLUE SPRUCE	3	3 1/2 - 4"	12-20"
16	SPIREA ALBA - WATERER	73	15"	12-20"
17	EUCYMNUS OBLONG ALATUS	37	18-24"	12-20"
18	DOGWOOD WHITE	42	2-3"	12-20"
19	DOGWOOD RED	14	2-3"	12-20"
20	PRUNUS CISTATA	5	2-3"	12-20"
21	MOCKORANGE GOLDEN	27	15-18"	12-20"
22	WEIGELA WHITE	13	2-3"	12-20"
23	POTENTILLA GRANATATION TRIUMPH	28	15"	12-20"
24	VIBURNUM AMERICAN HIGBUSH	7	18"	12-20"
25	AZALEA	6	18"	12-20"
26	COTONEASTER AGRIOLATA	33	15-20"	12-20"
27	AMUR MAPLE DWARF	9	2-3"	12-20"
28	SNOW BERRY DWARF	7	2-3"	12-20"
29	HOUSY SUCKER EMERALD MOUND	4	15-18"	12-20"
30	CARAGANA LACINIA PEA SHRUB	3	2-3"	12-20"
31	YOWA TWIG	4	18-20"	12-20"
32	YAW TWIG	5	3-3 1/2"	12-20"
33	ELEGANT PINE	60	18-20"	12-20"

NOTE: PLANTING - SEE FROM FRONT

MOVE: 7 EXISTING... - 12 FROM FRONT



Approved Plan L2

CDC/MPS CLEAN ROOM ADDITION
8001 EAST BLOOMINGTON FREEWAY BLOOMINGTON, MINNESOTA

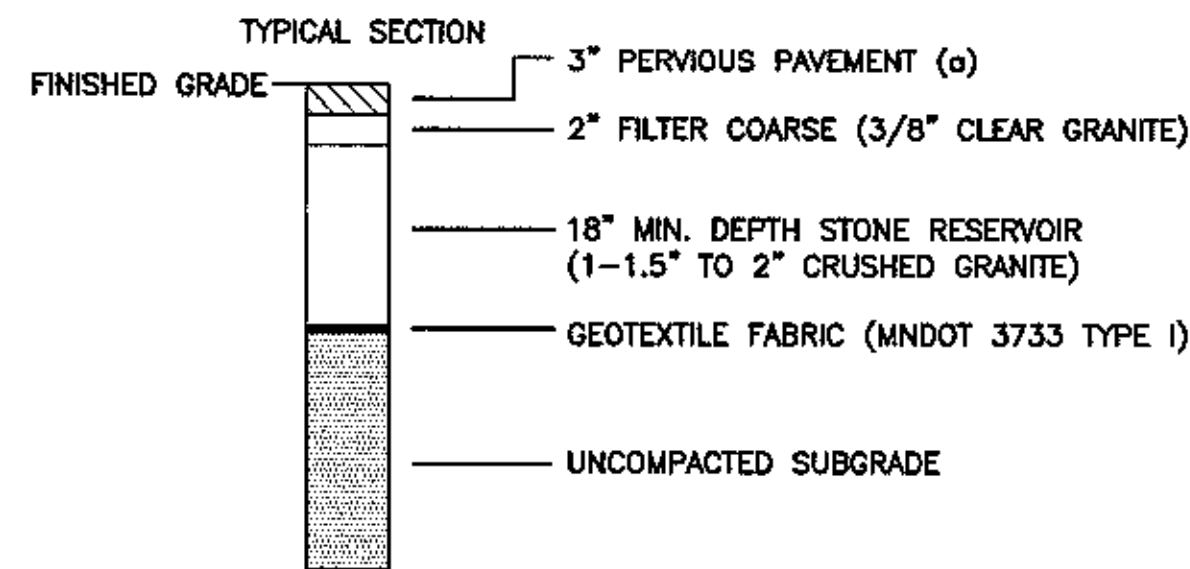
8001 EAST BLOOMINGTON FREEWAY BLOOMINGTON, MINNESOTA

Pope Associates Inc.
Architects • Engineers • Planners
555 St. Clair Avenue, Suite 1000, Detroit, MI 48226-3898

ARCHITECTS • ENGINEERS • PLANNERS
538 St. Charles Avenue • St. Paul, MN 55102 • 612-591-889

L2

NEW PERMEABLE PAVEMENT AREA



(a) The following gradation is recommended by the geotechnical engineer (see Geotechnical Evaluation Report by Braun Interdec dated October 2, 2013). Percent asphalt binder shall be between 5.75% and 6.0% by weight. The asphalt grade shall be PG 64-34.

US Standard Sieve Size	Percent Passing
3/4"	100
1/2"	85-100
3/8"	55-75
#4	10-25
#8	5-10
200	2-4

PERMEABLE PAVEMENT, BITUMINOUS WEAR COURSE NOTES:

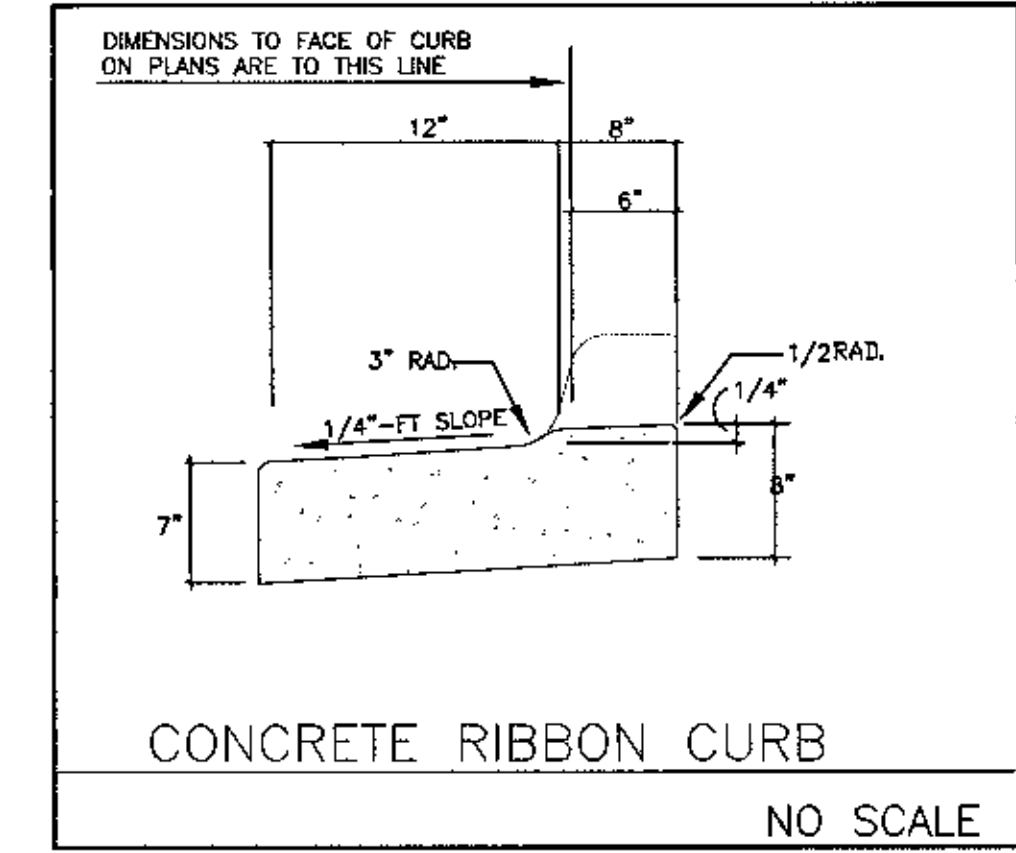
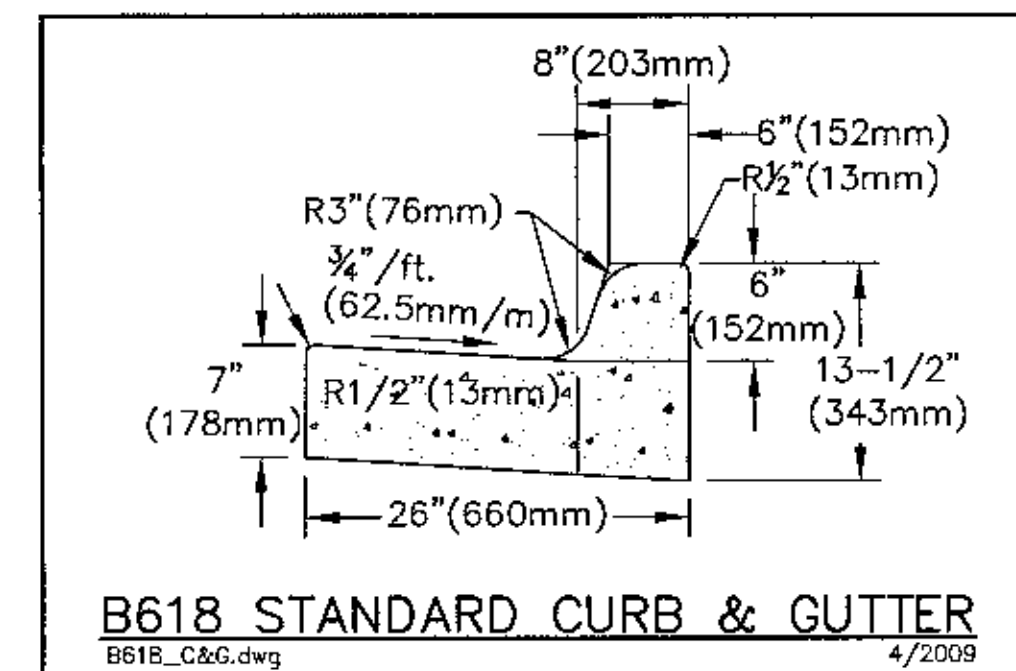
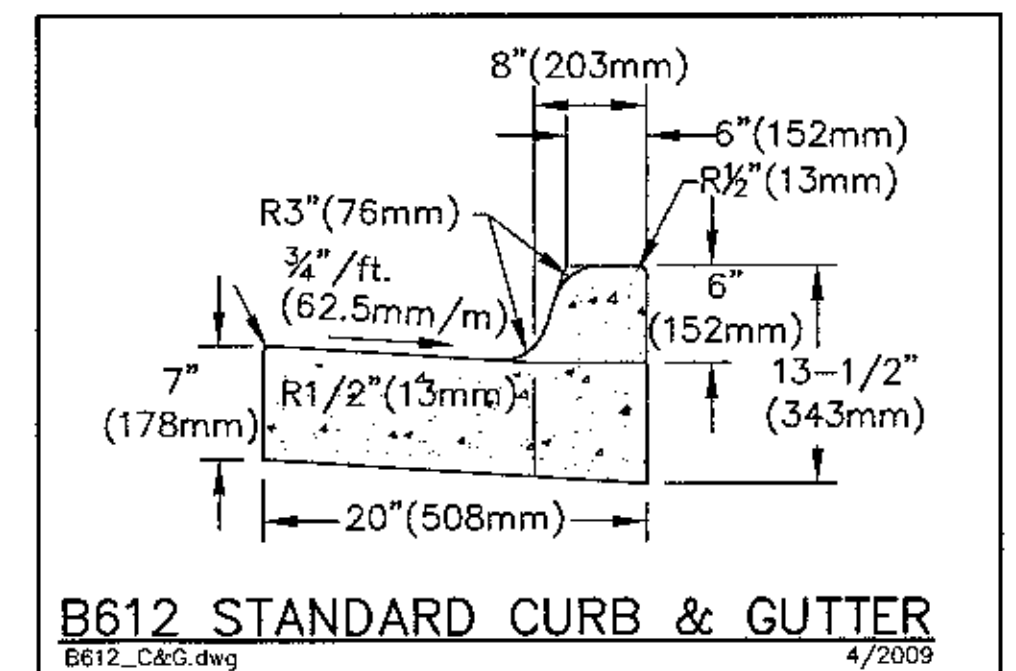
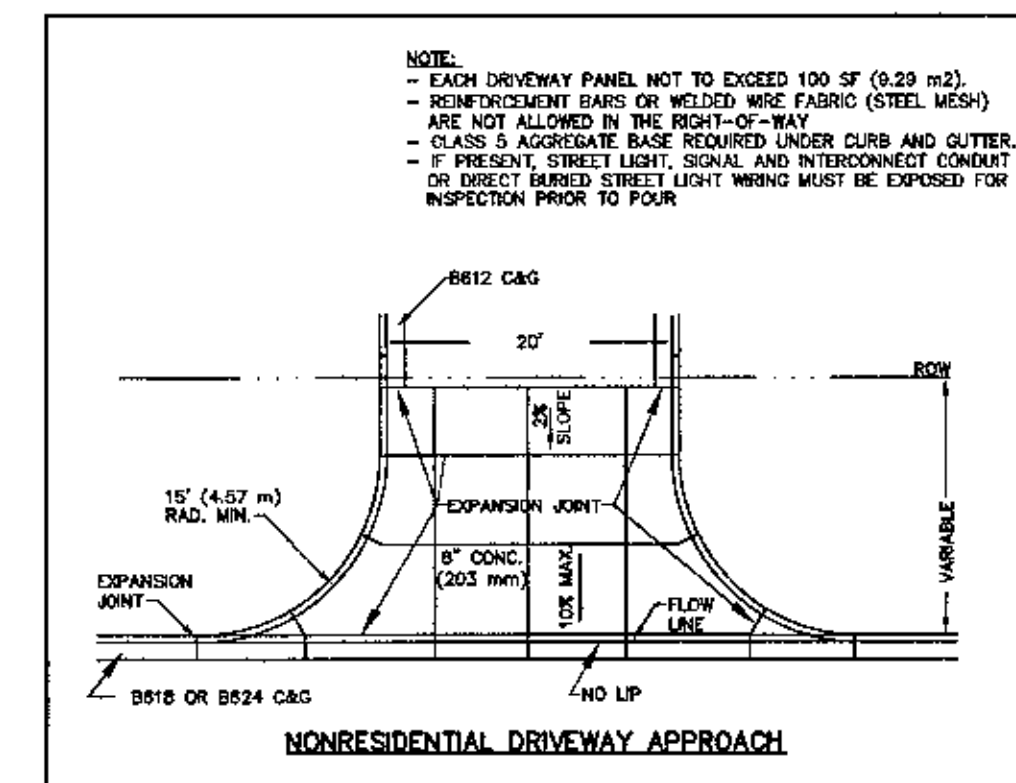
- The asphalt plant shall submit a mix design at least 48 hours prior to paving. Any significant deviations from the noted mix design shall be documented in an accompanying mix design report describing the added value or benefit for infiltration capacity, durability and/or performance of the permeable pavement.
- Weather conditions during paving shall be 50 deg F or above. The bituminous mixture shall be placed in one lift, at a temperature of 230-260 deg F. Compaction shall be accomplished by two passes of a ten ton roller. The pavement will be barricaded from all traffic a minimum of 24 hours after paving the permeable pavement mixture.
- The Contractor shall protect the permeable pavement system from sediment, contamination and over compaction during the entire construction process.

PERMEABLE PAVEMENT NOTES:

- The Contractor shall be familiar, or become familiar, with the unique construction logistics and scheduling required to provide a successful infiltration project. Every phase of construction shall PROTECT the permeable pavement system from excessive compaction, sediment and/or other contamination.
- Permeable Asphalt Pavement System
 - Permeable Pavement, Bituminous Wearing Course (3") - An open graded pavement using typical asphalt binder and less fines in the aggregate structure.
 - Choker/Filter Course (2") - 3/8" clear crushed granite provides stability for paving equipment.
 - Stone Recharge Bed (18" min., 24" avg. depth) - 1-1/2" - 2" crushed granite provides reservoir to store up to 2" of runoff from the parking lot and surrounding drainage area.
 - Geotextile fabric - MnDOT Type V, non-woven soil separation to prevent subgrade from contaminating recharge bed.
 - Uncompacted subgrade - Existing granular soils and fill, see soils report.
- The existing driveway shall be maintained to provide a stable and clean access to the parking lot. Frequent housekeeping, such as maintaining a rock berm or sweeping may be required to prevent tracked material from washing into the parking lot.
- Excavation of the existing base and subgrade shall be by tracked equipment, minimizing compaction. Rubber tired equipment shall be restricted to the existing driveway, deep ripping and regarding to loosen compacted subgrade soils may be allowed, as approved by the Engineer. Placement of the Recharge aggregate shall be by lightweight tracked equipment only, until 18" minimum depth Recharge aggregate is achieved.
- Concrete curb and gutter shall be constructed prior to placing the Choker course to minimize mixing of the aggregates. Any on-site concrete truck washing shall be contained and disposed of properly. Any contamination of any aggregates must be removed and replaced at the Contractor's expense.
- After the curb is placed, a layer of geotextile fabric, approximately 2' wide shall protect the exposed Recharge aggregate prior to backfilling with bedding material. The Choker course shall be placed to provide stability for the paving operation. Ruts shall be leveled as required. The pavement shall be protected from all traffic for 24 hours after paving.
- The Contractor shall immediately (within 4 hours) vacuum sweep the permeable pavement from any contaminated construction materials. All landscape restoration shall be performed off the permeable pavement, or use protective covering as approved by the Engineer. A final vacuum sweeping of the entire parking lot shall be performed after all restoration is completed. All sweeping is considered incidental.

SITE NOTES:

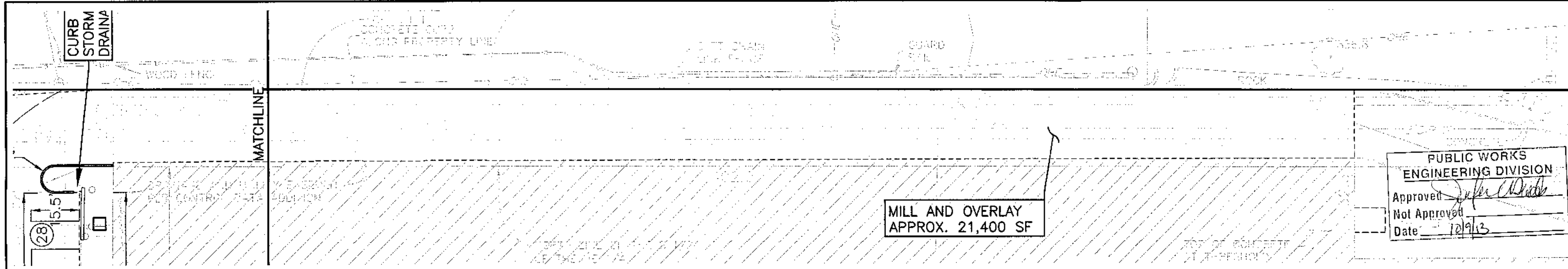
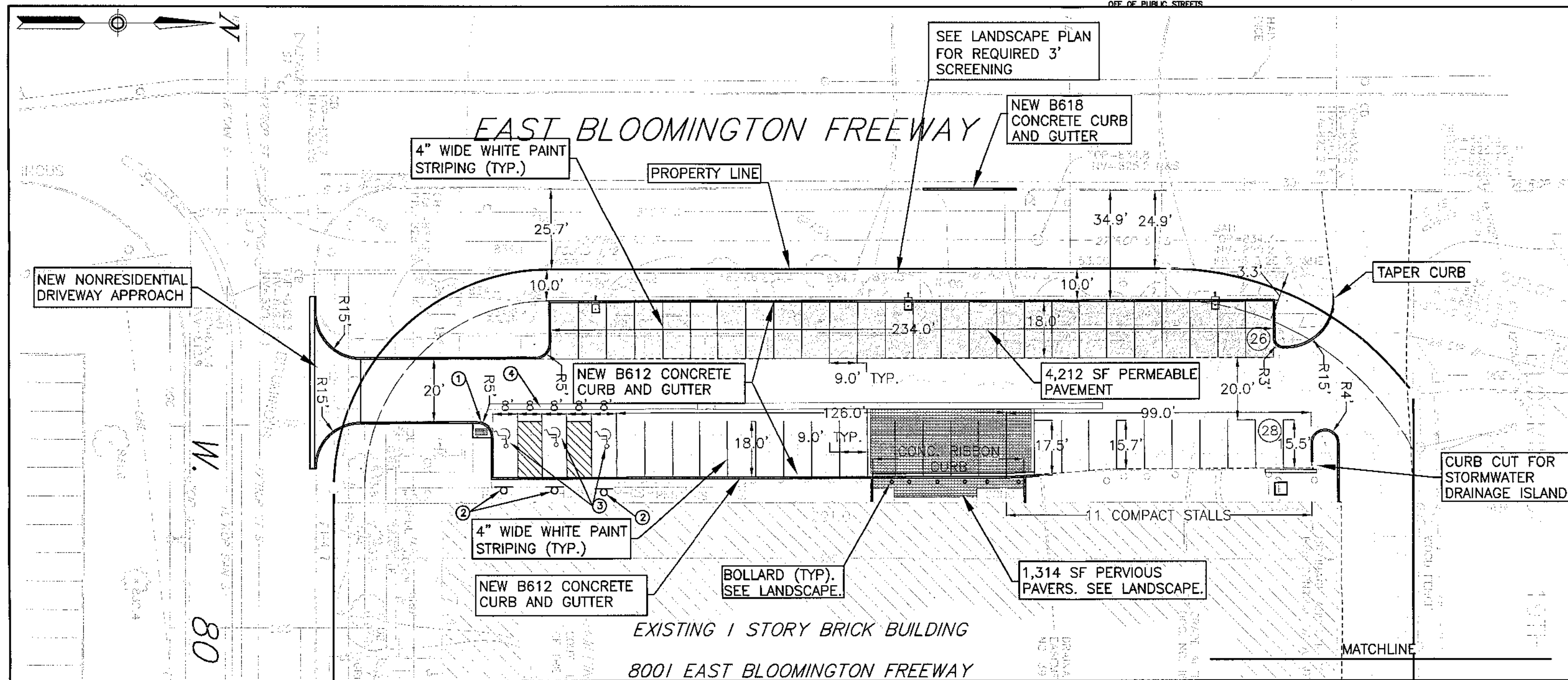
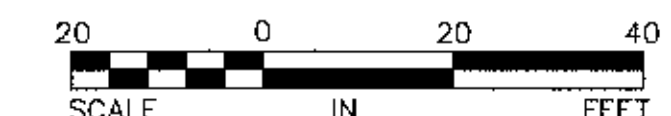
- Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Sunde Land Surveying, LLC dated 01/15/09.
- Detectable warnings are required on all public and private ramps. Place the detectable warnings at the back of curb. The ADA required truncated dome area shall be 24 inches minimum in the direction of travel and shall extend the full width (4' wide typ.) of the curb ramp. The only acceptable texture for "detectable warnings" is truncated domes. All detectable warning surface installations shall be at minimum at least as non skid as the surrounding pedestrian surfaces. Detectable warnings are to consist of raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of nominal 2.35". The truncated dome area shall contrast visually with the adjacent walking surface. Use dark grey when the adjacent sidewalk is a light grey cement color. Use light grey when the adjacent sidewalk is a dark color. Install truncated domes and all related surfaces according to the manufacturers specifications. Install Armor-Tile (www.armor-tile.com) Cast in Place Truncated Dome Detectable Warning Surface Tile, or approved equal. Refer to ADA sections 4.7.7 and 4.29.2 for additional information.
- All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials.
- All dimensions are to face of curb (where applicable), edge of pavement, or exterior face of building, unless otherwise indicated.
- All curb radii shall be three (3) feet minimum unless otherwise noted.
- Designate all approved parking stalls with white 4 inch wide surface markings. Match handicapped access aisles with white 4 inch wide painted stripes 18 inches on center and at 45 degree angles to the stalls.
- White surface markings (letters and symbols) shall be in conformance with the Standard Alphabets for Highway Signs and Pavement Markings, FHWA (HTO-20).
- All new curb and gutter shall be type B612 installed in accordance with MnDOT Standard Spec. 2531 and MnDOT Standard Plate 7100G. Match gutter slopes to pavement cross-slopes.
- Typical full size 90' parking stalls are 9' x 18' (non-handicapped) unless otherwise indicated.
- Portland cement concrete for curb and gutter shall be 3900 psi minimum 28 days compressive strength with 5.5% air entraining. Concrete aggregates shall be free of organic impurities, chert, shale, or other deleterious substances.
- Preformed expansion joints using 0.5" thickness shall be placed at each end of curb radius, at intersections, and approximately every 200 feet.
- Contraction joints shall be spaced at 10 foot intervals in the curb and gutter.
- Construct 2' taper at the free end of all concrete curb and gutter sections.
- NO PARKING ON PUBLIC STREETS, CIRCULATION DRIVES, OR FIRE LANES. PREPARE ON-SITE CONSTRUCTION MANAGEMENT SPACE FOR EMPLOYEE PARKING, MATERIALS, EQUIPMENT, FIELD SHACK, AND OTHER CONSTRUCTION RELATED ITEMS. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION RELATED LOADING, UNLOADING, AND STOCKPILING TO OCCUR ON-SITE AND OFF OF PUBLIC STREETS.



SITE STALL COUNT

TOTAL EXISTING	422 STALLS
TOTAL PROPOSED	448 STALLS
TOTAL REQUIRED (PER CODE)	302 STALLS
HANDICAPPED SPACES REQUIRED	9 STALLS
HANDICAPPED SPACES PROVIDED	9 STALLS

- ### KEYNOTES:
- HANDICAPPED ACCESSIBLE CURB CUT (TYPICAL)
 - HANDICAPPED ACCESSIBLE PARKING SIGN (TYP.) (SEE SIGNAGE PLAN, BY OTHERS)
 - UNIVERSAL ACCESSIBILITY SYMBOL, PAINTED, 4 FT. HIGH (TYP.)
 - 2% MAXIMUM SLOPE IN ALL DIRECTIONS AT HANDICAPPED PARKING AREA
 - DIMINISH CURB



Sunde Engineering, PLLC
CONSULTING CIVIL ENGINEERS
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(952) 881-3344 TELEPHONE
(952) 881-1913 FAX
www.sundecivil.com

8001 EAST BLOOMINGTON FREEWAY

PARKING EXPANSION

PL2022-188
PL202200188

BLOOMINGTON, MN

DATE	REVISION
9/30/13	City Engineering Comments
10/2/13	Add Landscape PerVIOUS Pavers
10/7/13	Revise Landscape PerVIOUS Pavers Area

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

Brian H. Mundstock
BRIAN H. MUNDSTOCK
DATE: 10/7/13 REG. NO.: 23468

INFORMATION:

PROJECT NO.:	05-702
DRAWN BY:	MW
CHECKED BY:	BHM
APPROVED BY:	BHM
SCALE:	GRAPHIC
DATE:	07/10/13

SITE LAYOUT AND DIMENSION PLAN
OCT 08 2013
City of Bloomington Engineering Division

SHEET NO:

C2



The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of C/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

PL2022-188
PL202200188

SITE CLEARING:

1. Perform all clearing and grubbing work in accordance with the provisions of MNDOT Standard Specification Section 2101, and the additional requirements contained herein.
2. Clearing is defined as the complete removal and disposal of all portions of natural and artificial objectionable materials, structures, trees, shrubs, bushes, windfalls, grass, sod, and other vegetation in the designated areas that exist above ground except stumps. Grubbing is defined as the excavation, removal, and disposal of all portions of natural and artificial objectionable materials, structures, trees, shrubs, bushes, windfalls, and other vegetation that exist below ground including stumps.
3. Clear and grub the construction area in advance of the grading operation.
4. **Pavement Areas:** Grub all stumps, roots 40 mm (1.5 inches) in diameter or larger, buried logs, and all other objectionable material occurring within the grading limits to a depth of not less than 1 m (3.28 feet) below the existing ground surface or subgrade excavation, whichever is deeper.
5. After the site has been cleared and prior to any cutting or filling operations, strip all topsoil and organic soils from areas to be paved, or where grades are to be changed more than 152 mm (6 inches). Strip the existing topsoil to whatever depths encountered. Prevent intermingling with underlying subsoil, or other objectionable material. Remove heavy growths of grass from areas before stripping. Where trees are to be left standing, stop topsoil stripping a sufficient distance away from the trees in order to prevent damage to the main root system.
6. Stockpile soil to be re-used in an area clear of the new construction. Remove excess soil from the site.
7. Construct stockpiles in a manner that will freely drain surface water. Maintain soil stockpiles free from debris and trash. Do not obstruct site drainage. Do not exceed a stockpile depth of 8 feet.
8. Keep the soil stockpile damp in order to prevent drying and dust.

8001 E Bloomington Freeway
(2013 Project)

CONSULTING CIVIL ENGINEERS
10630 NESSITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
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8001 EAST
BLOOMINGTON
FREEWAY

PARKING
EXPANSION

BLOOMINGTON, MN

DATE	REVISION
9/30/13	City Engineering Comments
10/2/13	Add Landscape Previous Pavers
10/7/13	Revise Landscape Demo Area

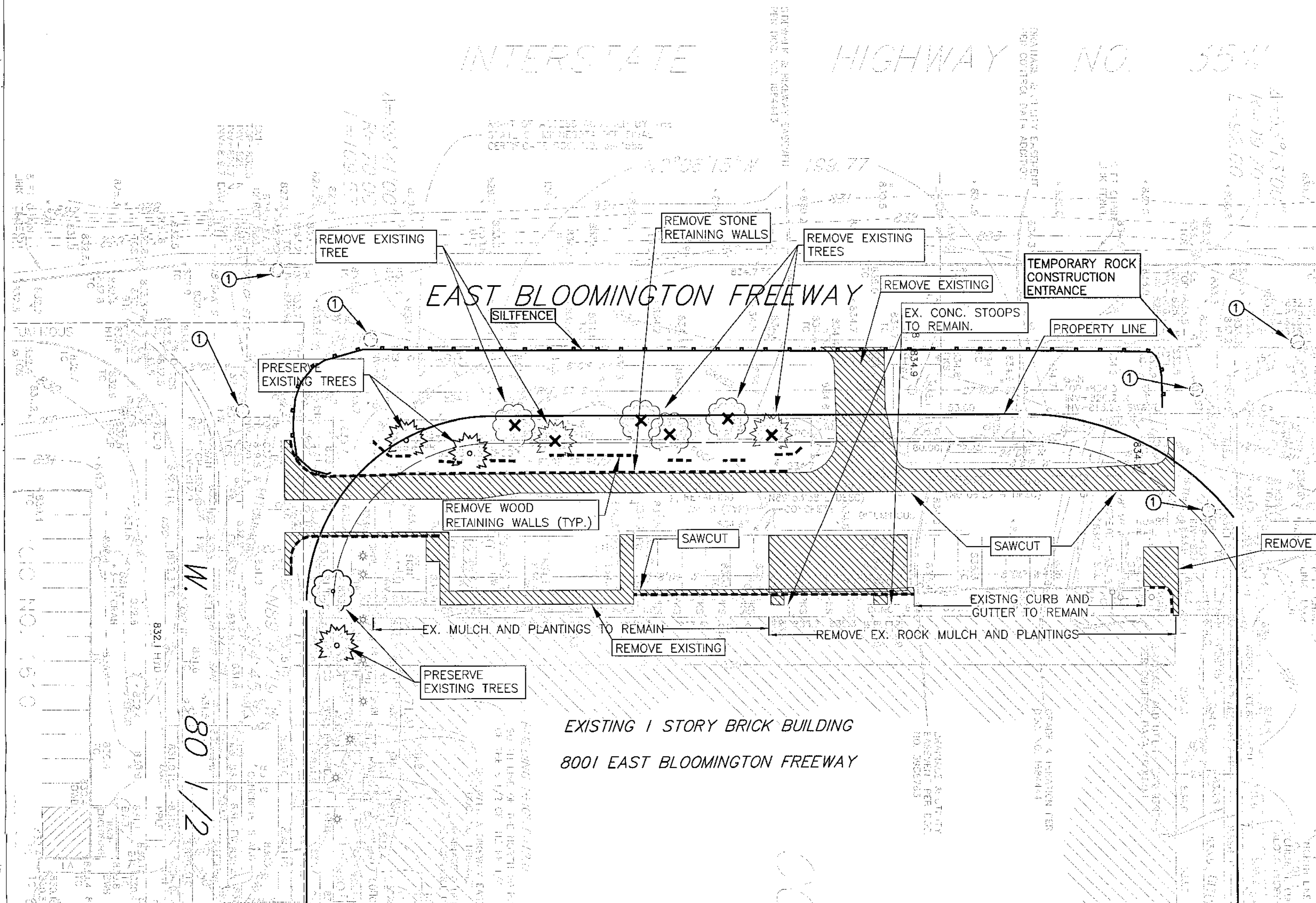
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Brian H. Mundstock
BRIAN H. MUNDSTOCK
DATE: 10/7/13 REG. NO.: 23468

INFORMATION:
PROJECT NO.: 05-702
DRAWN BY: MW
CHECKED BY: BHM
APPROVED BY: BHM
SCALE: GRAPHIC
DATE: 07/10/13
DESCRIPTION:

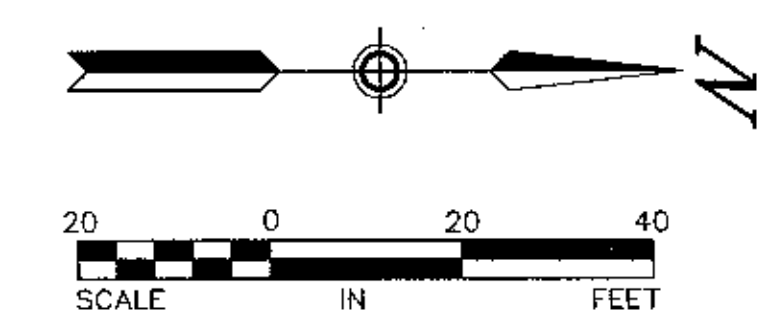
DEMO
PLAN
RECEIVED
OCT 09 2013
City of Bloomington
Engineering Division

SHEET NO:
C1
1 of 4



KEYNOTES
KEYNOTES ARE DENOTED BY:
① - INSTALL SILTSAC, OR APPROVED EQUAL, EROSION CONTROL SILT TRAP INSIDE CATCHBASIN. REMOVE SILT AND RE-USE SILTSAC AS REQUIRED.

CIVIL PLANS APPROVED
BY JEN DESRUDE 10/9/13





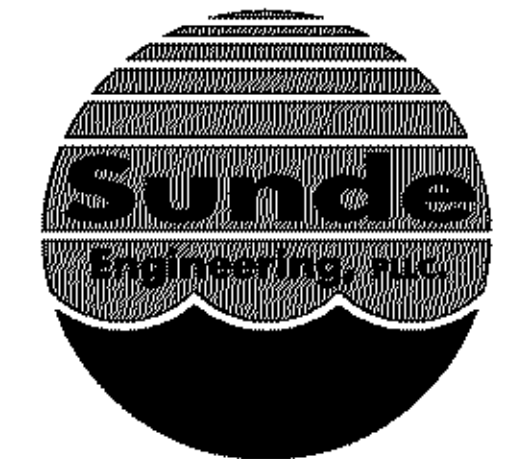
The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of C/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

6291ABC-13
GN Resound
8001 East Bloomington Freeway

PL2022-188
PL202200188

SITE CLEARING:

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8. Keep the soil stockpile damp in order to prevent drying and dust.



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8001 EAST
BLOOMINGTON
FREEWAY

PARKING
EXPANSION

BLOOMINGTON, MN

DATE	REVISION
------	----------

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Brian H. Mundstock
DATE: 07/10/13 REG. NO.: 23468

INFORMATION:

PROJECT NO.: 05-702

DRAWN BY: MW

CHECKED BY: BHM

APPROVED BY: BHM

SCALE: GRAPHIC

DATE: 07/10/13

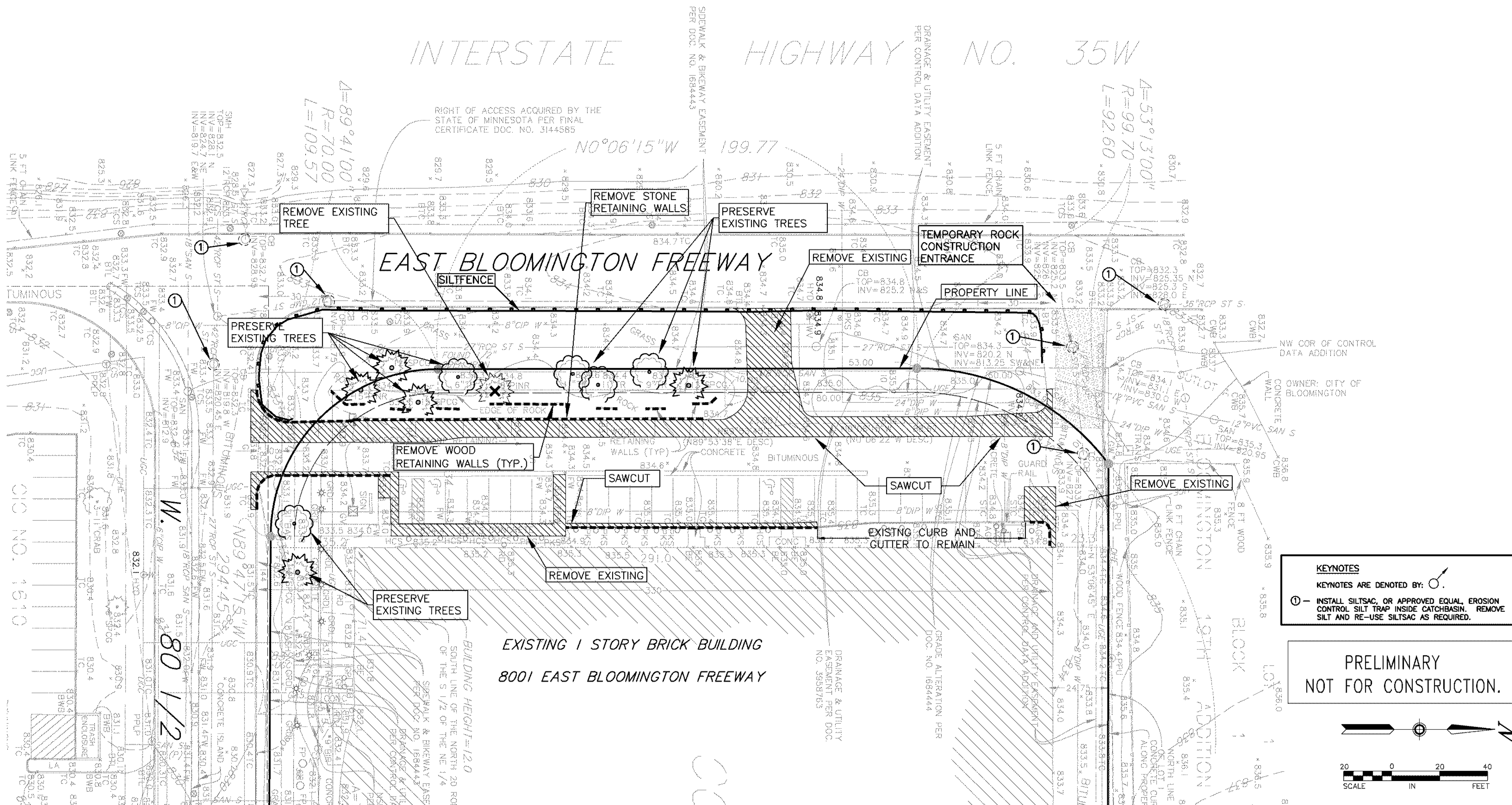
DESCRIPTION:

DEMO
PLAN

SHEET NO.

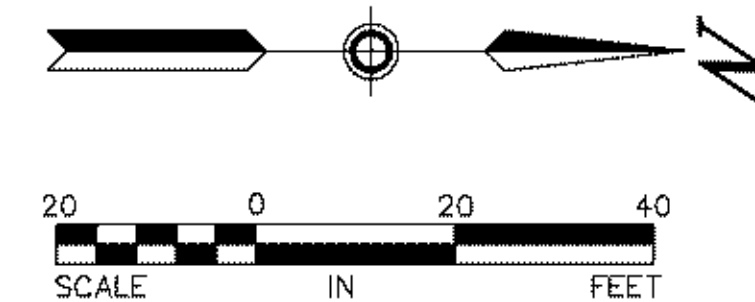
C1

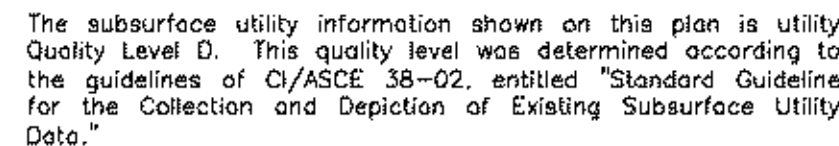
1 of 4



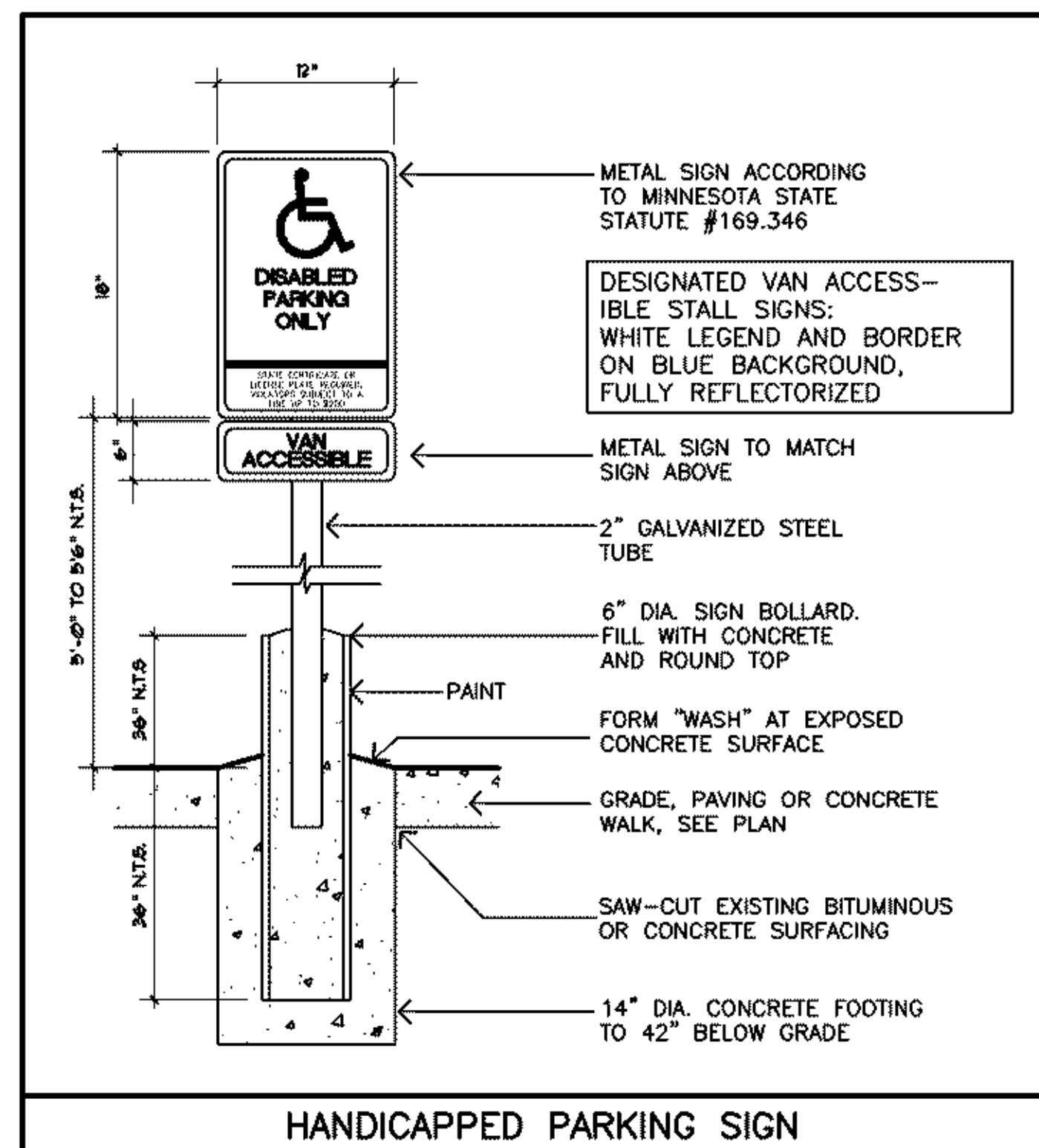
KEYNOTES
KEYNOTES ARE DENOTED BY:
① - INSTALL SILTSAC, OR APPROVED EQUAL, EROSION CONTROL SILT TRAP INSIDE CATCHBASIN. REMOVE SILT AND RE-USE SILTSAC AS REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION.





6291ABC-13
GN Resound
8001 East Bloomington Freeway



PL2022-188
PL202200188

SITE GRADING:

1. Unless otherwise noted all proposed grades shown are finished grades. Finished grades at points between spot elevations or contours are determined by uniform slopes between the given grades. All proposed spot elevations shown at curblines are to bottom of curb (gutterline) unless otherwise indicated.
2. At locations where new work connects to existing work, field verify existing elevations and grades prior to beginning the new work. Match existing grades at construction limits.
3. Remove all unsuitable material (organic soils, uncontrolled fill, debris, and natural or artificial obstructions) in the zone from 1 m (3.28 feet) below the finished subgrade to finished subgrade in the proposed pavement areas.
4. Coordinate inspection and approval of all subgrades within the building and pavement areas with the Geotechnical Engineer. Coordinate inspection and approval of all fill materials prior to placement within the building and pavement areas with the Geotechnical Engineer. Use only uncontaminated fill material.
5. Conduct all grading operations in a manner that minimizes the potential for site erosion.
6. Protect existing trees during construction by installing temporary fence around them.
7. Choose equipment and work procedures that will not disturb the subgrade soils. Route construction traffic away from areas of pavements in order to minimize soil disturbance. If the construction equipment causes rutting or soil pumping, then switch to other types of equipment or methods. The Contractor is solely responsible for the proper selection of construction equipment in order to avoid disturbing soils on the site.

BENCHMARKS

- 1.) Top of top nut of fire hydrant on the north side of West 80 1/2 Street at Fremont Avenue South.
Elevation = 831.06 feet
- 2.) Top of top nut of fire hydrant 62± feet northwest of the northeast corner of the building.
Elevation = 833.46 feet



8001 EAST
BLOOMINGTON
FREEWAY

PARKING EXPANSION

BLOOMINGTON, MN

[illegible]

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

Brian H. Mundstock
BRIAN H. MUNDSTOCK
DATE: 07/10/13 REG NO: 2346

INFORMATION:

PROJECT NO : 05-702

DRAWN BY: MW

CHECKED BY: MW

APPROVED BY: BHM

SCALE: _____ GRAPH: _____

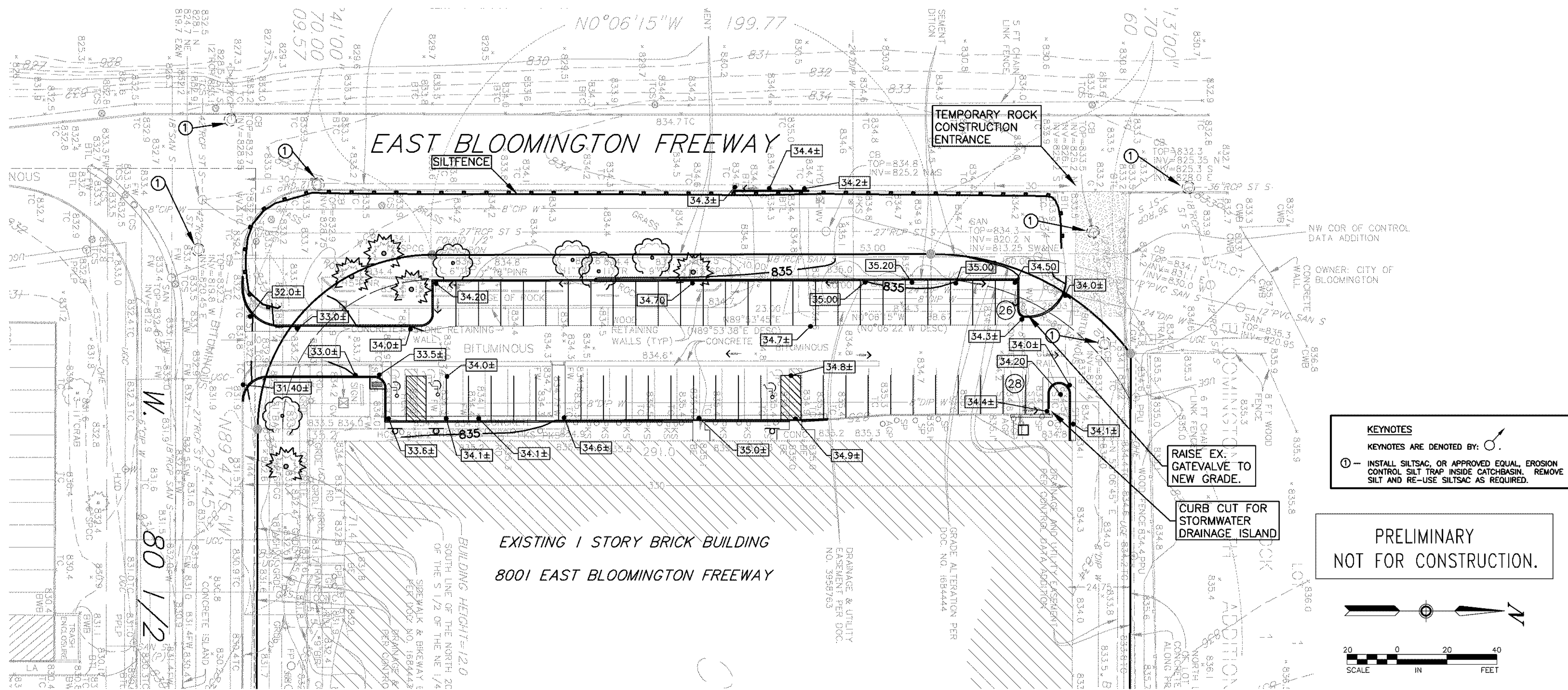
DESCRIPTION:

GRADING, DRAINAGE AND EROSION CONTROL PLAN

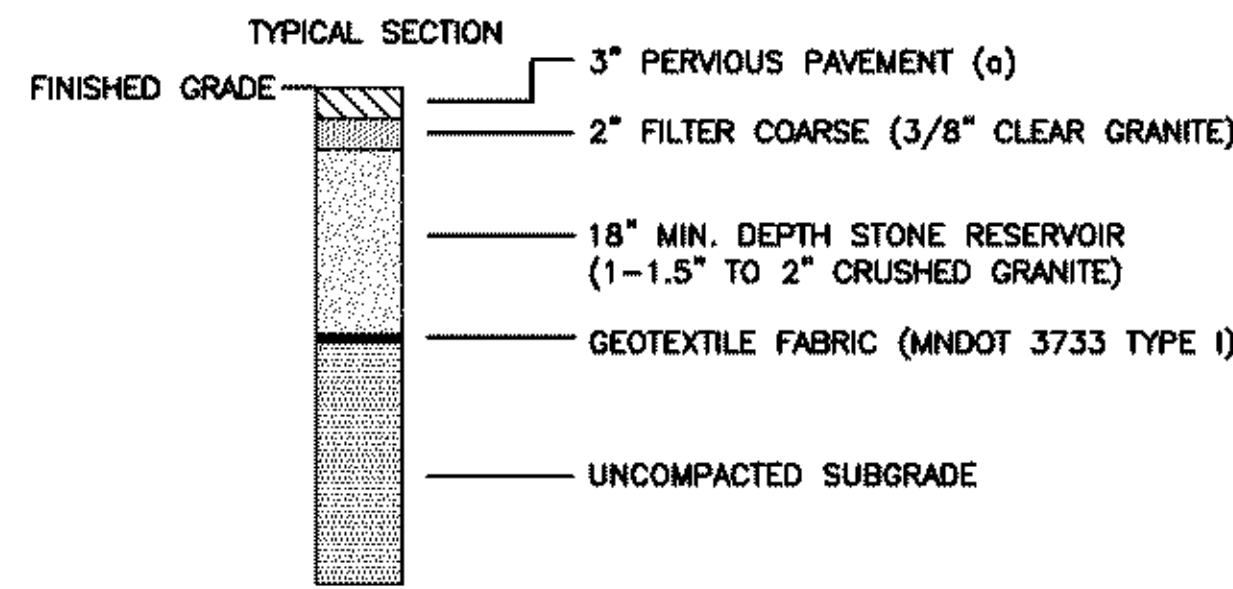
SHEET NO:

C3

3 of 4



NEW PERMEABLE PAVEMENT AREA



(a) The following gradation has proven effective in other permeable asphalt applications. Percent asphalt binder shall be between 5.75% and 6.0% by weight. The asphalt grade shall be PG 64-34.

US Standard Sieve Size	Percent Passing
1/2"	100
3/8"	95
#4	35
#8	15
#16	10
#30	2

PERMEABLE PAVEMENT, BITUMINOUS WEAR COURSE NOTES:

- The asphalt plant shall submit a mix design at least 48 hours prior to paving. Any significant deviations from the noted mix design shall be documented in an accompanying mix design report describing the added value or benefit for infiltration capacity, durability and/or performance of the permeable pavement.
- Weather conditions during paving shall be 50 deg F or above. The bituminous mixture shall be placed in one lift, at a temperature of 230-260 deg F. Compaction shall be accomplished by two passes of a ten ton roller. The pavement will be barricaded from all traffic a minimum of 24 hours after paving the permeable pavement mixture.
- The Contractor shall protect the permeable pavement system from sediment, contamination and over compaction during the entire construction process.

KEYNOTES:

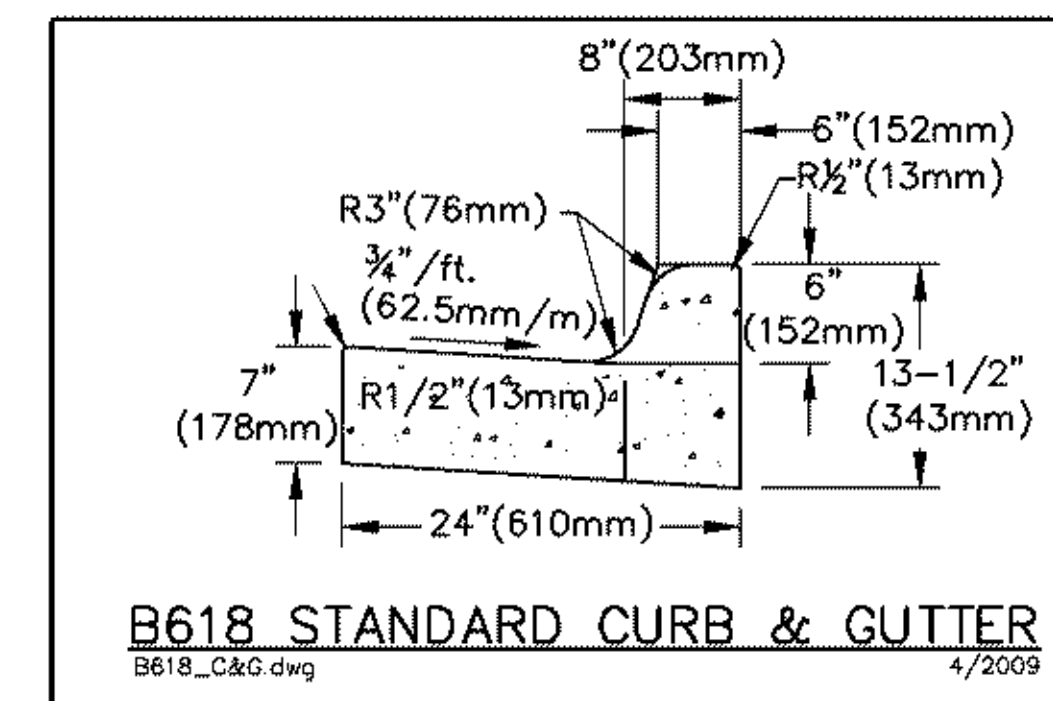
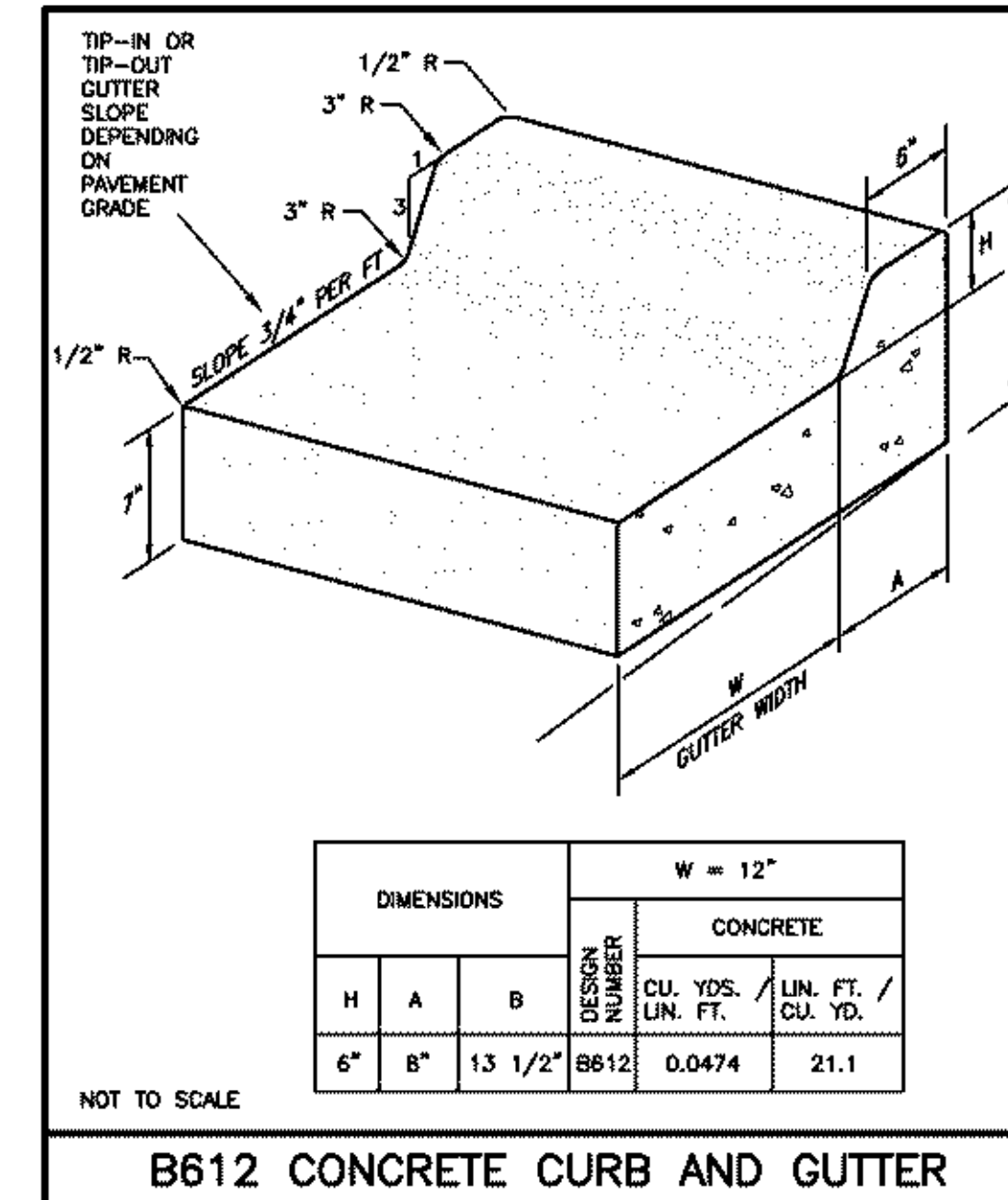
- HANDICAPPED ACCESSIBLE CURB CUT (TYPICAL)
- HANDICAPPED ACCESSIBLE PARKING SIGN AND STANDARD (TYP.) (SEE DETAIL)
- UNIVERSAL ACCESSIBILITY SYMBOL, PAINTED, 4 FT. HIGH (TYP.)
- 2% MAXIMUM SLOPE IN ALL DIRECTIONS AT HANDICAPPED PARKING AREA
- DIMINISH CURB

PERMEABLE PAVEMENT NOTES:

- The Contractor shall be familiar, or become familiar, with the unique construction logistics and scheduling required to provide a successful infiltration project. Every phase of construction shall PROTECT the permeable asphalt pavement system from excessive compaction, sediment and/or other contamination.
- Permeable Asphalt Pavement System**
 - Permeable Pavement, Bituminous Wearing Course (3") - An open graded pavement using typical asphalt binder and less fines in the aggregate structure.
 - Choker/Filter Course (2") - 3/8" clear crushed granite provides stability for paving equipment.
 - Stone Recharge Bed (18" min., 24" avg. depth) - 1-1/2" - 2" crushed granite provides reservoir to store up to 2" of runoff from the parking lot and surrounding drainage area.
 - Geotextile fabric - MNDOT Type V, non-woven soil separation to prevent subgrade from contaminating recharge bed.
 - Uncompacted subgrade - Existing granular soils and fill, see soils report.
- The existing driveway shall be maintained to provide a stable and clean access to the parking lot. Frequent housekeeping, such as maintaining a rock berm or sweeping may be required to prevent tracked material from washing into the parking lot.
- Excavation of the existing base and subgrade shall be by tracked equipment, minimizing compaction. Rubber tired equipment shall be restricted to the existing driveway, deep ripping and regarding to loosen compacted subgrade soils may be allowed, on approved by the Engineer. Placement of the Recharge aggregate shall be by lightweight tracked equipment only, until 18" minimum depth Recharge aggregate is achieved.
- Concrete curb and gutter shall be constructed prior to placing the Choker course to minimize mixing of the aggregates. Any on-site concrete truck washing shall be contained and disposed of properly. Any contamination of any aggregates must be removed and replaced at the Contractor's expense.
- After the curb is placed, a layer of geotextile fabric, approximately 2' wide shall protect the exposed Recharge aggregate prior to backfilling with bedding material. The choker course shall be placed to provide stability for the paving operation. Ruts shall be leveled as required. The pavement shall be protected from all traffic for 24 hours after paving.
- The Contractor shall immediately (within 4 hours) vacuum sweep the permeable pavement from any contaminated construction materials. All landscape restoration shall be performed off the permeable pavement, or use protective covering as approved by the Engineer. A final vacuum sweeping of the entire parking lot shall be performed after all restoration is completed. All sweeping is considered incidental.

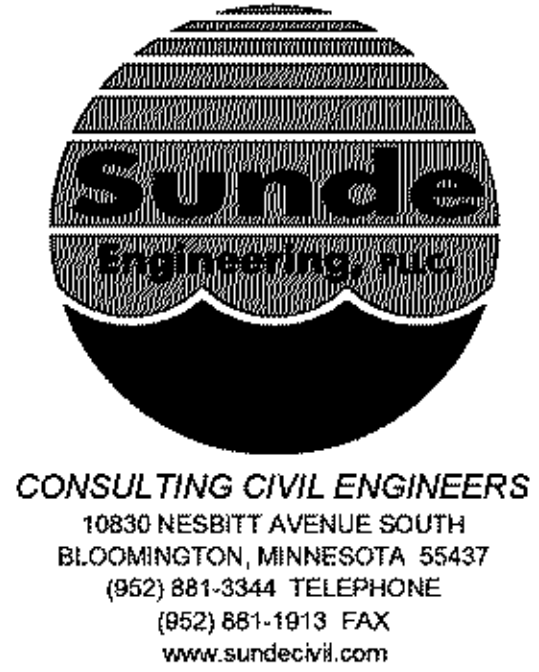
SITE NOTES:

- Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Sundel Land Surveying, LLC dated 01/15/09.
- Detectable warnings are required on all public and private ramps. Place the detectable warnings at the back of curb. The ADA required truncated dome area shall be 24 inches minimum in the direction of travel and shall extend the full width (4' wide typ.) of the curb ramp. The only acceptable texture for "detectable warnings" is truncated domes. All detectable warning surface installations shall be at minimum at least as non skid as the surrounding pedestrian surfaces. Detectable warnings are to consist of raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of nominal 2.35". The truncated dome area shall contrast visually with the adjacent walking surface. Use dark gray when the adjacent sidewalk is a light gray cement color. Use light gray when the adjacent sidewalk is a dark color. Install truncated domes and all related surfaces according to the manufacturers specifications. **Install Armor-Tile (www.armor-tile.com)** Cost in Place Truncated Dome Detectable Warning Surface Tile, or approved equal. Refer to ADA sections 4.7.7 and 4.29.2 for additional information.
- All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials.
- All dimensions are to face of curb (where applicable), edge of pavement, or exterior face of building, unless otherwise indicated.
- All curb radii shall be three (3) feet minimum unless otherwise noted.
- Designate all approved parking stalls with white 4 inch wide surface markings. Hatch handicapped access aisles with white 4 inch wide painted stripes 18 inches on center and at 45 degree angles to the stalls.
- White surface markings (letters and symbols) shall be in conformance with the Standard Alphabets for Highway Signs and Pavement Markings, FHWA (HTO-20).
- All new curb and gutter shall be type B612 installed in accordance with MNDOT Standard Spec. 2531 and MNDOT Standard Plate 7100G. Match gutter slopes to pavement cross-slopes.
- Typical full size 90° parking stalls are 9' x 18' (non-handicapped) unless otherwise indicated.
- Portland cement concrete for curb and gutter and sidewalk shall be 3900 psi minimum 28 days compressive strength with 5.5% air entraining. Concrete aggregates shall be free of organic impurities, chert, shale, or other deleterious substances.
- Preformed expansion joints using 0.5" thickness shall be placed at each end of curb radius, at intersections, and approximately every 200 feet.
- Contraction joints shall be spaced at 10 foot intervals in the curb and gutter.
- Construct 2" taper at the free end of all concrete curb and gutter sections.
- NO PARKING ON PUBLIC STREETS, CIRCULATION DRIVES, OR FIRE LANES. PREPARE ON-SITE CONSTRUCTION MANAGEMENT SPACE FOR EMPLOYEE PARKING, MATERIALS, EQUIPMENT, FIELD SHACK, AND OTHER CONSTRUCTION RELATED ITEMS. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION RELATED LOADING, UNLOADING, AND STOCKPILING TO OCCUR ON-SITE AND OFF OF PUBLIC STREETS.**



SITE STALL COUNT

TOTAL EXISTING	422 STALLS
TOTAL PROPOSED	448 STALLS
TOTAL REQUIRED (PER CODE)	302 STALLS
HANDICAPPED SPACES REQUIRED	9 STALLS
HANDICAPPED SPACES PROVIDED	9 STALLS



**8001 EAST
BLOOMINGTON
FREEWAY**

**PARKING
EXPANSION**

**PL2022-188
PL202200188**

BLOOMINGTON, MN

DATE REVISION

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

Brian H. Mundstock
BRIAN H. MUNDSTOCK
DATE: 07/10/13 REG. NO.: 23468

INFORMATION:

PROJECT NO.: 05-702

DRAWN BY: MW

CHECKED BY: BHM

APPROVED BY: BHM

SCALE: GRAPHIC

DATE: 07/10/13

DESCRIPTION:

**SITE LAYOUT
AND DIMENSION
PLAN**

SHEET NO.

C2



Winther-Johnson-Robinson
Architects-Designers

8115-B Lewis Road
Golden Valley, Minnesota 55427
Phone: 763-398-0158
Fax: 763-398-0455

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered architect under the Laws of the State of Minnesota.

MEET: 10/15/2022
Date: 12/8/2022 Rev: No. 1, 19166

MECHANICAL GENERAL NOTES

- ALL MECHANICAL ENGINEERING SHALL BE PERFORMED BY MECHANICAL CONTRACTOR UNDER CONTRACT TO GENERAL CONTRACTOR.
- G.C. SHALL COORDINATE ALL OTHER WORK WITH HVAC WORK AS REQUIRED.
- PROVIDE/LOCATE/RELOCATE THERMOSTATS, FIRE ALARMS, STROBES, FIRE EXTINGUISHERS, ETC. AS REQUIRED BY LOCATION OF NEW PARTITIONS, CASEWORK AND TENANT'S FURNITURE.
- COORDINATE WITH ARCHITECT TO DETERMINE LOCATION OF DEVICES AND CONTROLS.
- ENGINEERING DRAWINGS SHALL DETERMINE ELECTRICAL/MECHANICAL SYSTEMS DESIGN. PROVIDE BAFFLED DAMPER OR TRANSFER PANELS AT ACOUSTIC PARTITIONS.

ELECTRICAL GENERAL NOTES:

- ELECTRICAL SHALL BE AS SHOWN ON DRAWINGS. ELECTRICAL CONTRACTOR SHALL OBTAIN RECEPTACLES AS NECESSARY TO MEET CODES AS WELL AS TO LIMIT RECEPTACLES ON CIRCUIT TO 6.

ELECTRICAL KEY NOTES:

- COORDINATE FLOOR BOXES WITH OWNER.
- PROVIDE 6 JUNCTION BOXES BELOW FLOOR WITH A 20 AMP CIRCUIT PER J-BOX. SPACE AT THIRD POINTS ALONG SHORT AXIS OF ROOM AND AT QUARTER POINTS ALONG LONG AXIS OF ROOM.
- PROVIDE 5 JUNCTION BOXES BELOW FLOOR WITH A 20 AMP CIRCUIT PER J-BOX. SPACE AT QUARTER POINTS ALONG SHORT AXIS OF ROOM AND AT QUARTER POINTS ALONG LONG AXIS OF ROOM.
- PROVIDE POWER AS NECESSARY FOR JACK SHAF OPENER.
- PROVIDE POWER AS NECESSARY FOR ROLLING SHUTTER. CONNECT TO FIRE ALARM SYSTEM.

REFLECTED CEILING SYMBOLS LEGEND

LAY-IN FIXTURES	RECESSED FIXTURES	SYMBOL INDICATORS
2' X 2' 2' X 4'	RECESSED DOWNLIGHT	FIXTURE TYPE INDICATOR
Existing LOCATION	RECESSED WALL WASH / ADJUSTABLE	SWITCH INDICATOR
New LOCATION	GENERAL SYMBOLS	SWITCH
New FIXTURE	KEYED NOTE	FIXTURE CONTROLLED BY SWITCH
	ROOM NUMBER	DIMMER SWITCH
	EXHAUST FAN	NIGHT LIGHT
	CEILING SPEAKER	EXISTING TO REMAIN
	EXIT SIGN	OCCUPANCY SENSOR
	EXIT SIGN WITH EMERGENCY LIGHTS	VACANCY SENSOR
	EMERGENCY LIGHTS	3 WAY SWITCH
	OCCUPANCY SENSOR - CEILING	4 WAY SWITCH
	VACANCY SENSOR - CEILING	FLOOR BOX
	SPRINKLER	

MN ENERGY CODE INTERIOR LIGHTING COMPLIANCE CALCULATIONS:

EXISTING FIXTURE SCHEDULE

NUMBER	FIXTURE TYPE	LAMP TYPE	CALCULATION	QUANTITY	WATTS USED	MANUFACTURER / CATALOG NO
1	2' X 4' FLUORESCENT	9 T5 LAMP'S 32 WTS/LAMP	32 X 2 = 64 WTS / FIX	44	64 WTS X 44 FIX = 2,816 WATTS	
2						
3						
4						
					TOTAL WATTS = 2,816 WATTS	

EXISTING INTERIOR LIGHTING POWER TOTAL
2,816 WATTS / 3,609 S.F. = 0.77 WATTS PER S.F.

PROPOSED FIXTURE SCHEDULE

NUMBER	FIXTURE TYPE	LAMP TYPE	CALCULATION	QUANTITY	WATTS USED	MANUFACTURER / CATALOG NO
1	2' X 4' DIRECT/INDIRECT CONVERTIBLE TO LED	LED 18 WTS/LAMP	18 X 2 = 36 WTS / FIX	96	36 WTS X 96 FIX = 3,456 WATTS	
2	2' X 4' DIRECT/INDIRECT CONVERTIBLE TO LED	LED 18 WTS / LAMP	18 X 2 = 36 WTS / FIX	15	36 WTS X 15 FIX = 540 WATTS	
3	2' X 4' DIRECT/INDIRECT LED	LED	38.34 WTS / FIX	20	38.34 WTS X 20 FIX = 766.8 WATTS	LITONIA (38.34 WATTS PER FIXTURE) 98LT4-6-L/DP-977-EZ1-LP813
4						
					TOTAL WATTS = 4,762.8 WATTS	

PROPOSED INTERIOR LIGHTING POWER TOTAL
4,762.8 WATTS / 3,609 S.F. = 1.32 WATTS PER S.F.

REFLECTED CEILING GENERAL NOTES:

- EXISTING LAY-IN CEILING SHALL REMAIN UNCHANGED UNLESS NOTED OTHERWISE.
- NEW LAY-IN CEILING WILL MATCH 2' X 2' CEILING USED THROUGH-OUT PRODUCTION AREA.
- NEW LIGHTS TO BE LED 2' X 4' FIXTURES BY LITONIA (38.34 WATTS/FIXTURE)
- EXISTING 2' X 4' FIXTURES REMOVE BALLAST AND PROVIDE DRIVERS AND LED TUBES FOR LIGHT FIXTURES.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR ELECTRICAL DESIGN TO INCLUDE LIGHTING AND POWER. DESIGN SHALL MEET MN ELECTRICAL CODE AND MN ENERGY CODE.

REFLECTED CEILING KEY NOTES:

- CREATE OPENING IN CEILING OF 12" X WIDTH OF DOOR PLUS 6" EACH WAY.
- CREATE OPENING AROUND ROLLING GRILL HOUSING: ALLOW FOR ALL DOOR MECHANISMS.
- REPOSITION LIGHTS TO ACCOMMODATE THE NEW LAYOUT.
- REMOVE FIXTURE
- CEILING MOUNTED OCCUPANCY SENSOR CONTROLLING ROOM 103 LIGHTS.
- CEILING MOUNTED OCCUPANCY SENSOR CONTROLLING ROOM 104 LIGHTS.
- SOFFIT TO BE 1" BELOW HIGHEST LAY-IN CEILING.
- ALIGN FACE OF WALL WITH FACE OF SOFFIT.
- PROVIDE EXHAUST AND AIR CHANGES TO MEET MN MECHANICAL CODE FOR LOCKER ROOMS.
- PROVIDE AIR EXCHANGES AND EXHAUST AS NECESSARY TO CONTROL BODY ORDER THIS ROOM. VERIFY SOLUTION WITH OWNER PRIOR TO DESIGNING AIR EXCHANGES.
- ROTATE EXISTING LIGHTS THIS ROOM TO CONFORM WITH NEW LAYOUT. WIRE TO NEW SWITCH.
- NO WORK AT CEILING THIS AREA.
- SET CEILING AS HIGH AS POSSIBLE TO CLEAR RAISED SPRINKLER LINES AND STRUCTURE. SHOULD BE BETWEEN 7'-10" AND 8'-0" AFF.
- 3/8" GYP. BD. SOFFIT WITH BOTTOM OF SOFFIT 1" BELOW LAY-IN CEILING SYSTEM.
- FINISH HEADER TO MATCH SURROUNDING FINISHES.

FIRE PROTECTION

- ALL FIRE PROTECTION ENGINEERING SHALL BE PERFORMED BY LICENSED CONSULTANTS UNDER CONTRACT TO THE GENERAL CONTRACTOR.
- SPRINKLER HEADS SHALL BE CENTERED IN SUSPENDED CEILING TILE UNO. COORDINATE LOCATIONS IN DECORATIVE CEILINGS AND IN LOCATIONS WHERE DECORATIVE FIXTURES ARE SCHEDULED WITH ARCHITECT.
- SPRINKLER HEADS SHALL MATCH BUILDING STANDARD HEADS IN AREA OF CONSTRUCTION.
- FLUSH COVERED HEADS SHALL BE INSTALLED IN GYPSUM BOARD SOFFITS.

1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



GN RESOUND - LOCKER TRAINING SALVAGE
8001 Bloomington Freeway
Bloomington, MN 55420

Issues & Revisions

Revision Date: 04-10-18

Spec. Title

REFLECTED CEILING & ELECTRICAL PLANS

Location:
8001 Bloomington Freeway
Bloomington, MN 55420

Project No.: 17-119-018
Scale: As Noted
Drawn By: RWC, KNL
Approved:

A2

CONSTRUCTION KEY NOTES:

1. DELIVERY VEHICLES ARRIVE FROM JES (LEFT) DRIVING EAST ALONG NORTH ACCESS ROAD. ONCE VEHICLE IS BEYOND SERVICE ENTRANCE VEHICLE BACKS INTO DELIVERY STALL. ONCE DELIVERY VEHICLE IS COMPLETED WITH DELIVERY THEY PROCEED TO THE EAST AND LEAVE SITE ON DUPONT AVE. SO. NO IMPACT TO PARKING OR REDUCTION OF PARKING STALLS.

**PL2022-188
PL202200188**

- LEGEND**
- (A) Denotes Abstract
 - AGP Denotes above ground pipe
 - BE Denotes building entrance
 - BTCL Denotes top of bituminous curb
 - BT Denotes beaver tail curb
 - BWB Denotes brick wall base
 - CB Denotes catch basin
 - CBX Denotes communications box
 - CC Denotes curb cut
 - CIP Denotes cast iron pipe
 - CWB Denotes concrete wall base
 - CWT Denotes concrete wall top
 - DO Denotes drain grate
 - DIP Denotes ductile iron pipe
 - FR Denotes flag
 - FW Denotes face of walk
 - G Denotes gutter
 - GP Denotes guard post
 - GRDL Denotes ground light
 - GW Denotes guy wire
 - HCR Denotes handicap ramp
 - HCS Denotes handicap sign
 - HYD Denotes fire hydrant
 - INV Denotes invert elevation
 - KWB Denotes keystone wall base
 - LA Denotes landscaping
 - LD Denotes loading dock
 - LP Denotes light pole
 - OD Denotes overhead door
 - OHE Denotes overhead electric line
 - OHC Denotes overhead communications line
 - OHU Denotes overhead utility line
 - OPC Denotes outdoor power center
 - (P) Denotes per plan/not field verified
 - PKS Denotes parking sign
 - PP Denotes power pole
 - PPPL Denotes power and light pole
 - PVC Denotes power pole with underground utility
 - PVC Denotes polyvinyl chloride pipe
 - RCP Denotes reinforced concrete pipe
 - RD Denotes roof drain
 - SAN Denotes sanitary manhole
 - SAN S Denotes sanitary sewer line
 - SM Denotes storm manhole
 - SP Denotes sign post
 - ST S Denotes storm sewer line
 - STC Denotes top of surmountable curb
 - (T) Denotes Torrens
 - TC Denotes top of concrete curb
 - TCS Denotes traffic control sign
 - TRANS Denotes transformer
 - UDC Denotes underground communications line
 - UGE Denotes underground electric line
 - W Denotes water line
 - WV Denotes water valve
 - WVB Denotes wood wall base
 - BAS Denotes Basswood tree
 - BIR Denotes Birch tree
 - CRAB Denotes Crabapple tree
 - LOC Denotes Locust tree
 - MPL Denotes Maple tree
 - PINR Denotes Red Pine tree
 - PINS Denotes Scotch Pine tree
 - PINW Denotes White Pine tree
 - POP Denotes Poplar tree
 - RO Denotes Russian Olive tree
 - SHB Denotes shrub
 - SPBH Denotes Black Hills Spruce tree
 - SPCB Denotes Colorado Blue Spruce tree
 - SPCC Denotes Colorado Green Spruce tree
 - TR Denotes deciduous tree
 - Denotes iron monument found, marked with RLS No. 9612, unless otherwise noted
 - Denotes iron monument set, marked with RLS No. 17256

NOTES

DESCRIPTION OF PROPERTY SURVEYED
(Per Certificate of Title Certificate Number 1171433)

Lot 1, Block 1, Control Data Addition.

Subject to drainage and utility easements as shown on plot of Prairie Village 3rd Addition.

Subject to minerals and mineral rights reserved by the State of Minnesota.

Together with an exclusive easement, 36 feet in width, created by Doc. No. 896173, for ingress and egress, over and across those parts of the South 12.75 feet of the East 1419 feet of the North Half of the Northeast Quarter and the North 23.25 feet of the East 1419 feet of the South Half of the Northeast Quarter, which lie West of the Southerly extension of the West line of Dupont Avenue South, all in Section 4, Township 27, Range 24; (Now as to above land, except that part thereof embraced within the plot of Prairie Village 3rd Addition)

Subject to drainage and utility easements as shown on plot;

Subject to Party Wall Agreements as contained in CR Book 2620 of Deeds, Page 563, as Doc. No. 3695086 and in Doc. No. 3807279; (Now as to above land, except that part thereof embraced within the plot of Prairie Village 3rd Addition)

Subject to an easement in favor of Northern States Power Company contained in CR Book 2603 of Deeds, page 179, Doc. No. 3675962, over those portions of above described premises described as follows: The South 10 feet of the West 365 feet and a 10-foot strip of land being 5 feet on each side of the following described centerline: Commencing at the Southwest corner of above described premises, thence Easterly along the South line of said premises, a distance of 144 feet; thence deflecting to the left at an angle of 90 degrees, a distance of 35 feet and there terminating; (Now as to above land, except that part thereof embraced within the plot of Prairie Village 3rd Addition)

Subject to a limitation on the right of access to Interstate Highway No. 35W as contained in instrument recorded in CR Book 2186 of Deeds, page 393, as Doc. No. 3144585; (Now as to above land except that part thereof embraced within the plot of Prairie Village 3rd Addition)

- Location and sizes of underground utilities shown hereon are approximate only and are shown based on field location of visible fixtures in combination with available data provided by various sources. Some underground utility locations are shown as marked onsite by those utility companies whose locators responded to our Gopher State One Call, ticket numbers 80664606 & 80664607. Utilities shown are dependent on the completeness and accuracy of data provided. Other underground utilities of which we are unaware may exist. Verify all utilities critical to construction or design.
- Contact GOPHER STATE ONE CALL at 651-454-0002 (800-252-1166) for precise onsite location of utilities prior to any excavation.
- Property subject to the rights of GN ReSound Corporation as tenant under an unrecorded lease, as limited and subordinated pursuant to the terms and conditions of that certain Subordination and Non-Disturbance Agreement dated June 29, 2001.
- Property subject to a reservation of any minerals and mineral rights by the State of Minnesota.
- Property subject to a limitation on the right of access to Interstate Highway No. 35W, as well as the right to construct and maintain temporary snow fences as contained in an instrument recorded in Book 2186 of Deeds, page 393, as Document No. 3144585 office of the Hennepin County Recorder. (Now as to Lot 1 except that part thereof embraced within the plot of Prairie Village 3rd Addition)
- Property subject to the right to construct and maintain snow fence easements as evidenced by that certain Quit Claim Deed (Easement) dated May 31, 2000, filed August 8, 2000, as Document No. 3303673.
- Property subject to terms and conditions of that certain Variance filed February 2, 2001, as Document No. 3356770.
- This survey was prepared without the benefit of current title work. Easements, appurtenances, and encumbrances may exist in addition to those shown hereon. This survey is subject to revision upon receipt of a current title insurance commitment or attorney's title opinion.
- Area = 338,602 square feet or 7.773 acres
- Adjoining ownership information shown hereon was obtained from the Hennepin County Property Tax Information website. Ownership information is subject to revision upon receipt of a title search by a title insurance company.

- Zoning shown hereon is per zoning letter dated October 26, 2005, as supplied.
- Zoning and setback information as provided by the Planning Department of the City of Bloomington:
The subject property is zoned I-3 (General Industrial District) and R-1 (Single Family Residential District).
The setbacks for zone I-3 are:
Building: Front = 25 feet per resolution No. 2001-4, Doc. No. 3356770
Side = 10 feet
Rear = 25 feet
Side/Rear adjoining street = 35 feet
Parking: Front = 20 feet
Rear/Side = None
Parking requirement: Office: 5 spaces per 1000 sq. ft.
Warehouse: 1 space per 800 sq. ft.
Production: 1 space per 800 sq. ft. or 1 space per employee plus 1 space for each vehicle used in conduct of the enterprise, whichever is greater.
Density requirement: There are no (FAR) density requirements for properties zoned I-3.
Height requirement: Maximum height of any building or structure is 3 stories/40 feet if the building is 31-300 feet from the property lines of any protected residential property.
The setbacks for zone R-1 are:
Building: Front = 30 feet
Side = 10 feet
Side adjoining street = 30 feet
Rear = 30 feet
Parking: Street = 20 feet
Interior lot line = 10 feet
Restrictions (i.e., building setbacks, height and bulk restrictions, etc.) shown hereon are based on information provided and are subject to interpretation.
- Survey coordinate & bearing basis: Hennepin County coordinates
- At the time field work was performed for this survey, there was a significant amount of snow on the ground. Physical features were located to the best of our ability, but there may be additional features that were not visible and, therefore, not shown hereon.

BENCHMARKS

- Top of top nut of fire hydrant on the north side of West 80 1/2 Street at Fremont Avenue South.
Elevation = 831.06 feet
- Top of top nut of fire hydrant 62± feet northwest of the northeast corner of the building.
Elevation = 833.46 feet

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

Dated this 15th day of January, 2009
SUNDE LAND SURVEYING, LLC.

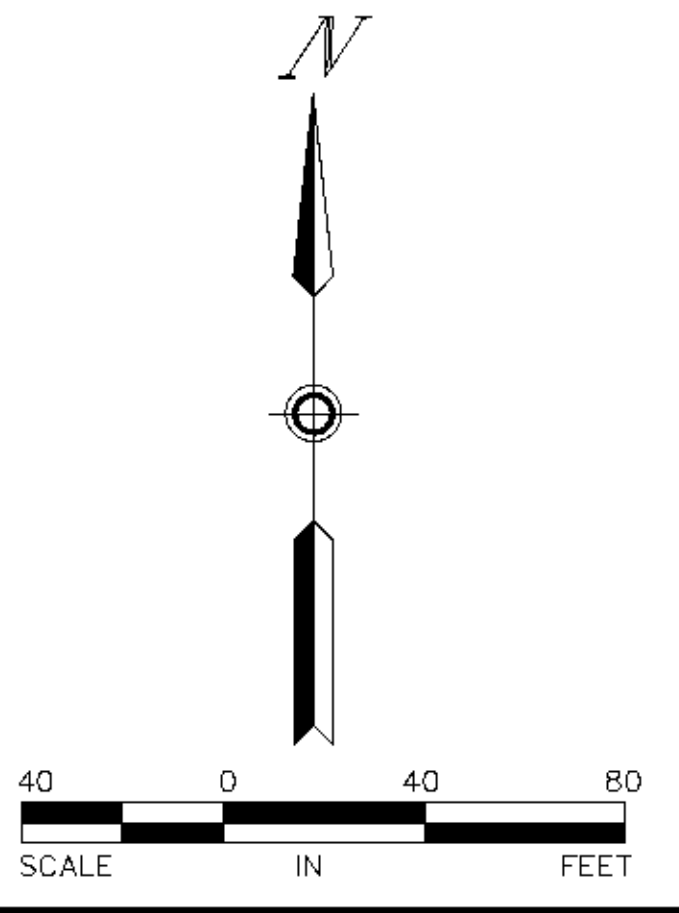
By: Scott J. Soukup, P.L.S. Minn. Lic. No. 17256

Floor elevations	SMT	01/22/2009
Update	SMT	01/15/2009
Revised	SP	Date
Original dated 5/01/1998		

Drawing title:
**BOUNDARY, LOCATION, TOPOGRAPHIC
and UTILITY SURVEY FOR:
Bentley Forbes - GRMN, LLC
8001 EAST BLOOMINGTON FREEWAY**

SUNDE LAND SURVEYING
Main Office: 8001 East Bloomington Freeway (35W) • Suite 118
Bloomington, Minnesota 55420-3420
952-881-2455 (Fax 952-888-9526)
North Office: Brooklyn Park, Minn. 763-784-9346

Project: 82-198-BF2	By/Dg: 749/28	Date:
Township: 27	Range: 24	Section: 4
File: 82188BF2001R.dwg		Sheet: 1 of 1



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Lum. Lumens	Tag	
	3	A	SINGLE	1.000	MCGRW GLEON-AF-02-LED-E1-T4FT-BZ-WM WALL MOUNTED @ VARIOUS	113	12252		
	2	B	BACK-BACK	1.000	MCGRW GLEON-AF-04-LED-E1-5MQ-SA-BZ ON 25FT POLE 3FT BASE	450	25224		
	1	B1	SINGLE	1.000	MCGRW GLEON-AF-04-LED-E1-SL3-BZ ON 25FT POLE 3FT BASE	225	24013		
	14	BOL	SINGLE	1.000	FC LIGHTING FCB740-VOLT-LED-4K-1200LED-BZ	22	934		
	1	C	SINGLE	1.000	MCGRW GLEON-AF-06-LED-E1-5MQ-BZ ON 25FT POLE 3FT BASE	333	37400		
	1	E	SINGLE	1.000	MCGRW GLEON-AF-03-LED-E1-SL4-BZ ON NEW 25FT POLE 3FT BASE	166	17268		
	1	F	BACK-BACK	1.000	MCGRW GLEON-AF-04-LED-E1-T4FT-BZ ON 25FT POLE 3FT BASE	450	24156		
	1	G	SINGLE	1.000	MCGRW GLEON-AF-06-LED-E1-T4FT-BZ ON EXISTING 25' POLE 3' BASE	333	35815		
	1	H	SINGLE	1.000	MCGRW GLEON-AF-03-LED-E1-T3-WM-BZ @ 23FT	166	18176		
	1	I	BACK-BACK	1.000	MCGRW GLEON-AF-02-LED-E1-5NQ-BZ ON NEW 25FT POLE 3FT BASE	226	12563		
	1	J	BACK-BACK	1.000	MCGRW GLEON-AF-06-LED-E1-5WQ-BZ 25FT POLE 3FT BASE	666	37499		
	1	K	SINGLE	1.000	MCGRW GLEON-AF-07-LED-E1-5WQ-BZ ON 25' POLE 3' BASE	391	44347		
	1	M	BACK-BACK	1.000	MCGRW GLEON-AF-02-LED-E1-5MQ-BZ ON NEW 25FT POLE 3FT BASE	226	12794		
	1	N	SINGLE	1.000	MCGRW GLEON-AF-07-LED-E1-T4FT-800 ON 25FT POLE 3FT BASE	295	34221		
	3	T	SINGLE	1.000	COOPER LIGHTING GLEON-AA-05-LED-E1-T4-BZ ON 25' POLE WITH 3' BASE	257	19093	EXISTING	
	11	WW	SINGLE	1.000	LUMARK XTOR2B @ 16FT	18.2	2135		
	11	WW1	SINGLE	1.000	LUMARK XTOR4B @ 16FT	37.7	4269		
	11	W	SINGLE	1.000	COOPER LIGHTING XTOR3A @ 8'	29.7	2649	EXISTING	

LIGHTING PLAN

APPROVED

No changes in fixture or location
without a revised plan review.

04/26/2017
lpeace

Required light level inspection completed on the 1st or 3rd Monday of each month, weather permitting. Please call 952-563-8920 to schedule the required inspection.

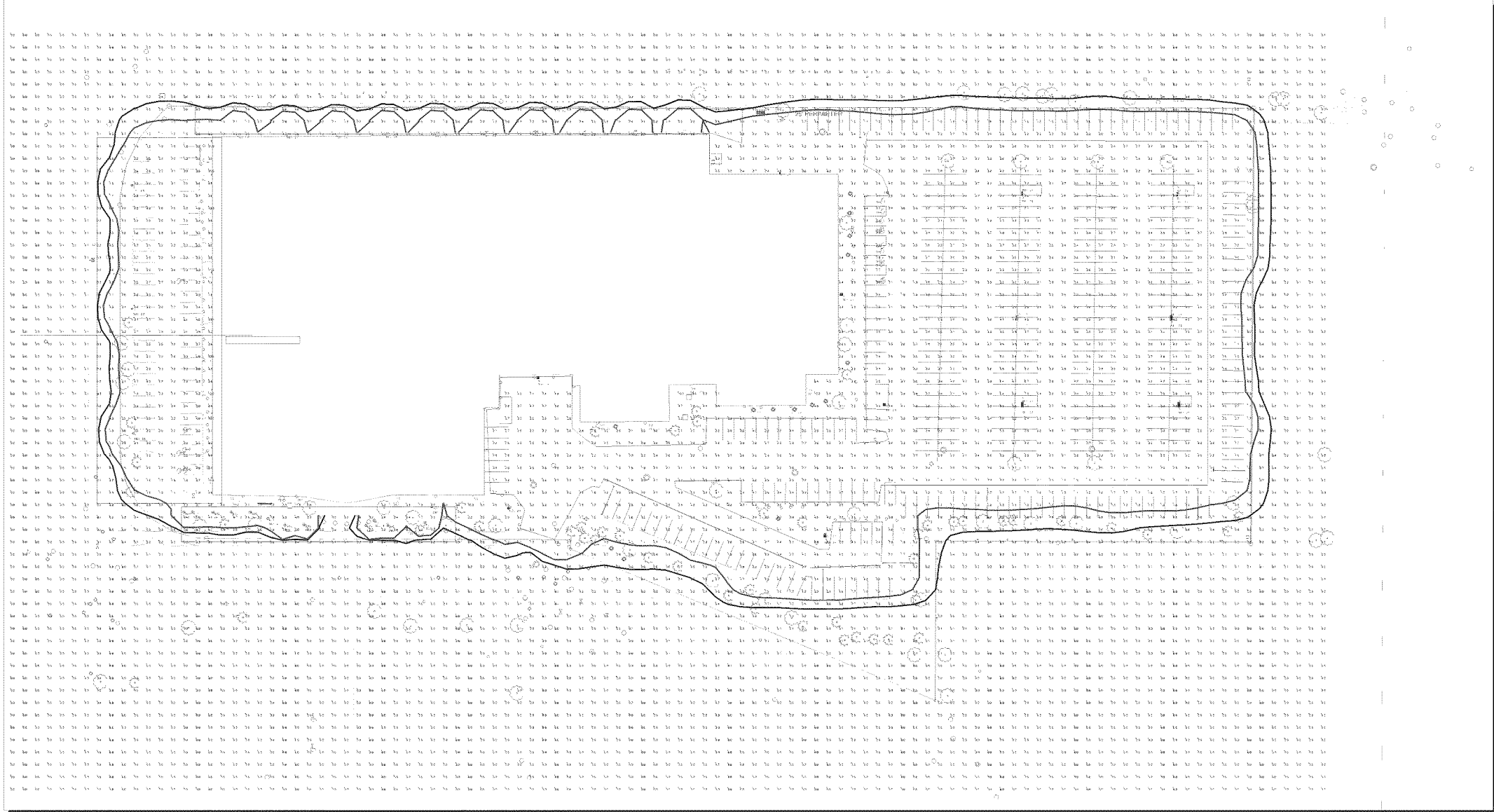
Calculation Summary				
Label	CalcType	Units	Avg	Max
SITE CALC	Illuminance	Fc	1.16	19.4
25 PERMETER	Illuminance	Fc	1.63	4.0
DRIVE LANE N	Illuminance	Fc	1.75	6.5
INNER LOT	Illuminance	Fc	3.46	8.9
			Min	Max
			0.0	0.0
			0.7	2.61
			0.4	4.38
			1.8	1.92
				4.94

GENERAL NOTES:

A. PULSE PRODUCTS DOES NOT ASSUME RESPONSIBILITY FOR THE INTERPRETATION OF THIS CALCULATION OR COMPLIANCE TO THE LOCAL, STATE, OR FEDERAL LIGHTING CODES OR ORDINANCES.

B. LIGHTING LAYOUT IS NOT INTENDED FOR CONSTRUCTION DOCUMENTS BUT ONLY TO ILLUSTRATE THE PERFORMANCE OF THE PRODUCT.

C. ALL READINGS/CALCULATIONS SHOWN ARE SHOWN ON OBJECTS/SURFACES.



Plan View
Scale: 1 inch= 50 Ft.

REVIEWED BY -
SANDY ANDERSON, LC
APRIL 24, 2017



#	Date	Comments
Revisions		

Drawn By: JLL
Checked By: SANDY ANDERSON LC
Date: 4/24/2017

Scale: AS NOTED

GN RESOUND INITIAL
BLOOMINGTON, MN



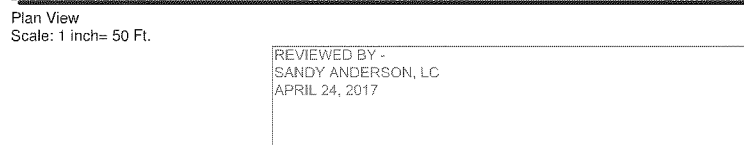
**CITY OF
BLOOMINGTON
MINNEAPOLIS**

**LIGHTING PLAN
APPROVED**

**No changes in fixture or location
without a revised plan review.**

04/26/2017
lpeace

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
SITE CALC	Illuminance	Fc	1.16	19.4	0.0	N.A.
	Illuminance	Fc	1.83	4.0	0.7	2.61
	DRIVE LANE	Fc	1.75	6.5	0.4	4.38
	INNER LOT	Fc	3.46	8.9	1.8	1.92
	Illuminance	Fc				4.94



GNI RESOUND INITIAL	Drawn By: JILL Checked By: SANDY ANDERSON LC Date: 4/24/2017
BLOOMINGTON, MN	Scale: AS NOTED

#	Date	Comments

PULSE
never ordinary

