PL2022-188
PL202200188

6291ABC-13

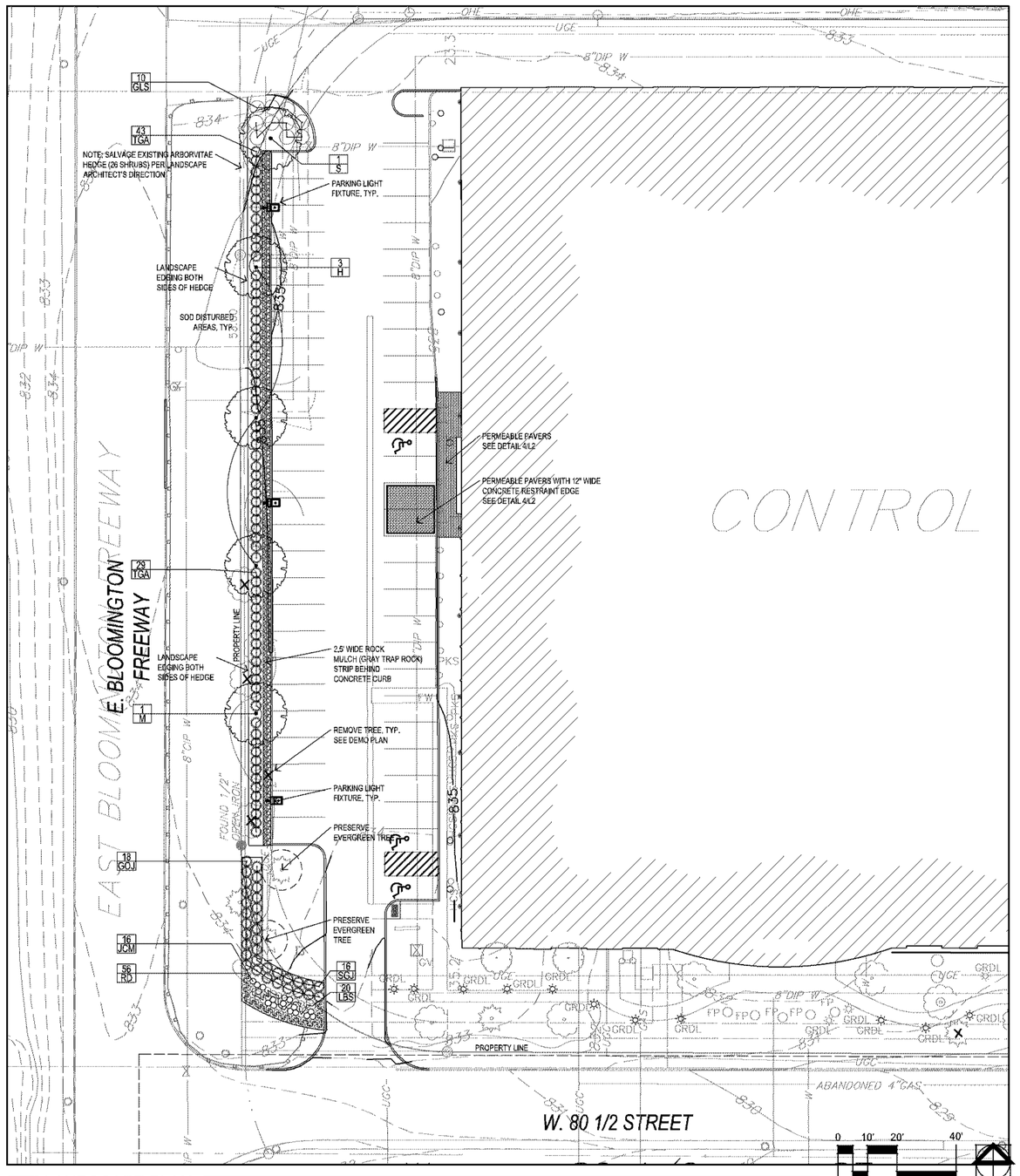
City Code 19.52(h)

- 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 Stella', '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:	

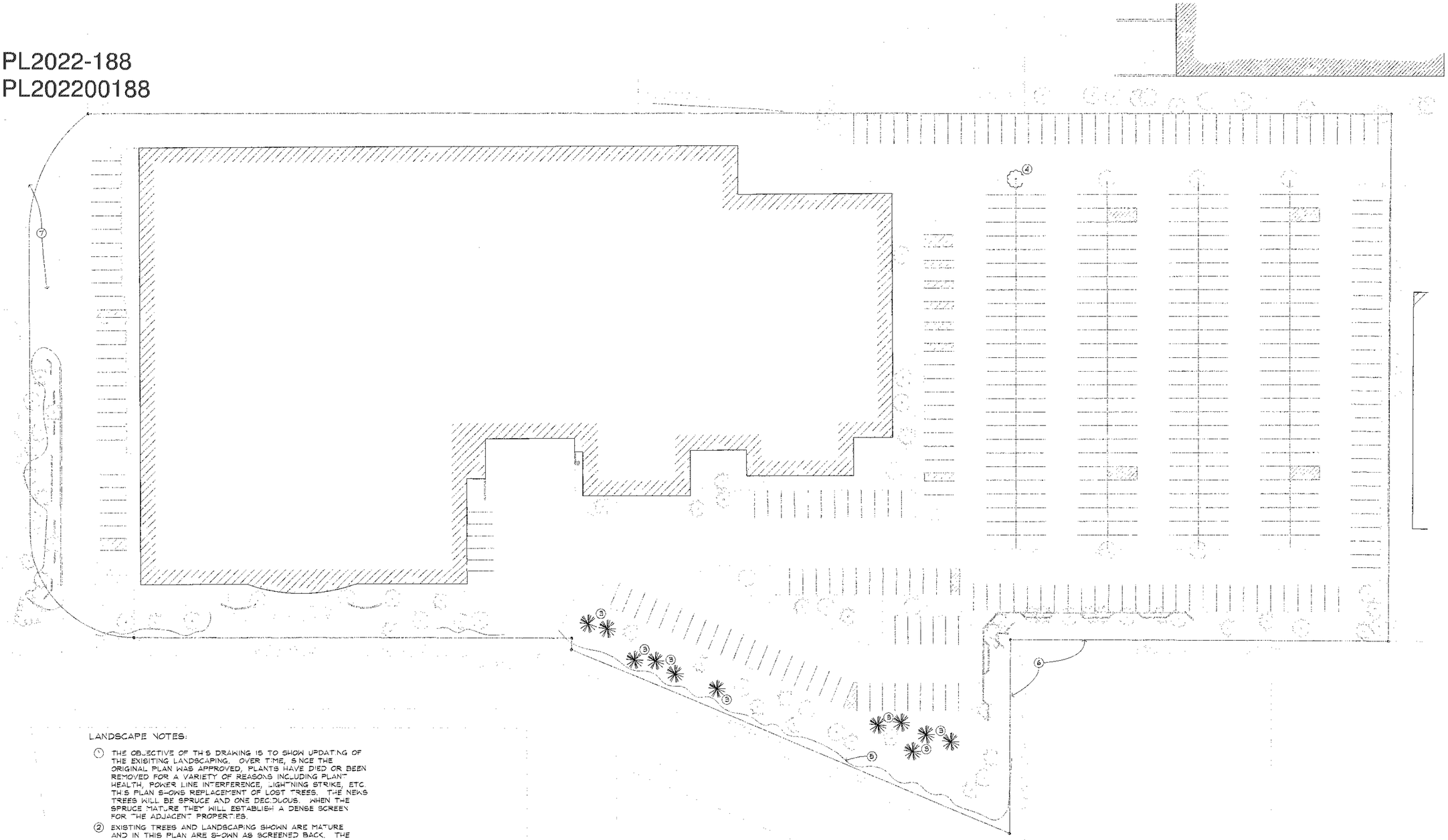
LANDSCAPE PLAN

Sheet #

L1

Approved Plan

PL2022-188
PL202200188



LANDSCAPE NOTES:

1. THE OBJECTIVE OF THIS DRAWING IS TO SHOW UPDATING OF THE EXISITING 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 EXISIITING 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 3 FOOT HIGH VISUAL BARRIER, FENCE OR BERM TO BE SUPPLEMENTED WITH PLANT MATERIAL.

Approved Plan

Winther-Johnson-Robir
Architects-Designers

8175-B Lewis Road
Golden Valley, Minnesota 55427
Phone: 763-398-0452
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.

Reg. No. 18451

Date: 10-05-05

GN RESOUND
UPDATED LANDSCAPE PLAN
8001 EAST BLOOMINGTON FREEWAY

Issues & Revisions:

Origination Date: 10.18.05

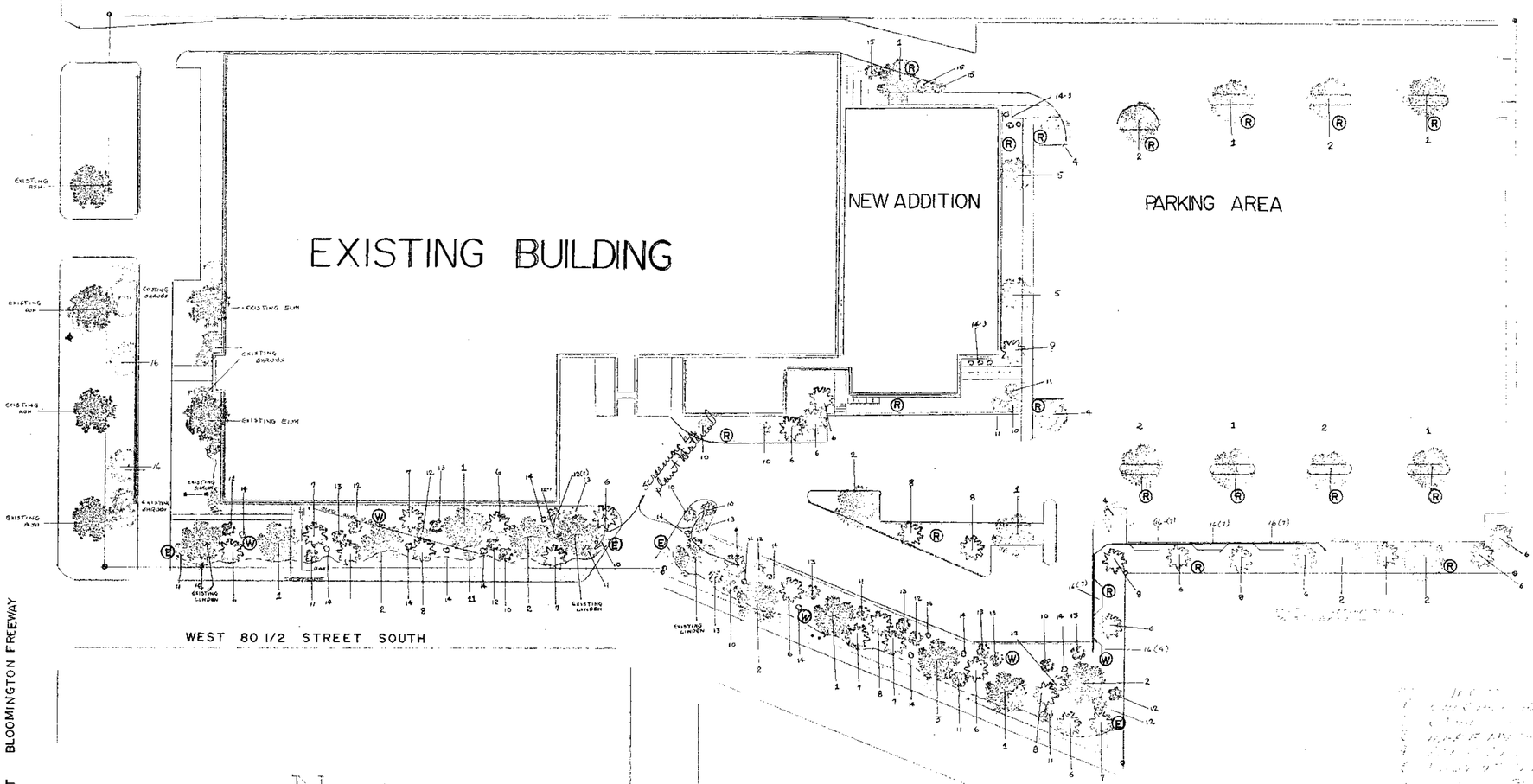
Sheet Title:

Location:
BLOOMINGTON
MINNESOTA 55420

Project No.: 05-179.02A
Scale: 1/32" = 1'-0"
Drawn By:
Approval:

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 oversee on-site installation of plant material

CITY OF BLOOMINGTON, MN
LANDSCAPE PLAN APPROVED
By Gordon P. Daylor for AJG
Director of Planning
Date 5/3/83

Approved Plan

DAY | DATE | M.NO.
CH. | DRA. | PN.BY
CHEC. | CKED

REVISIONS		
NO.	DATE	MARK

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.

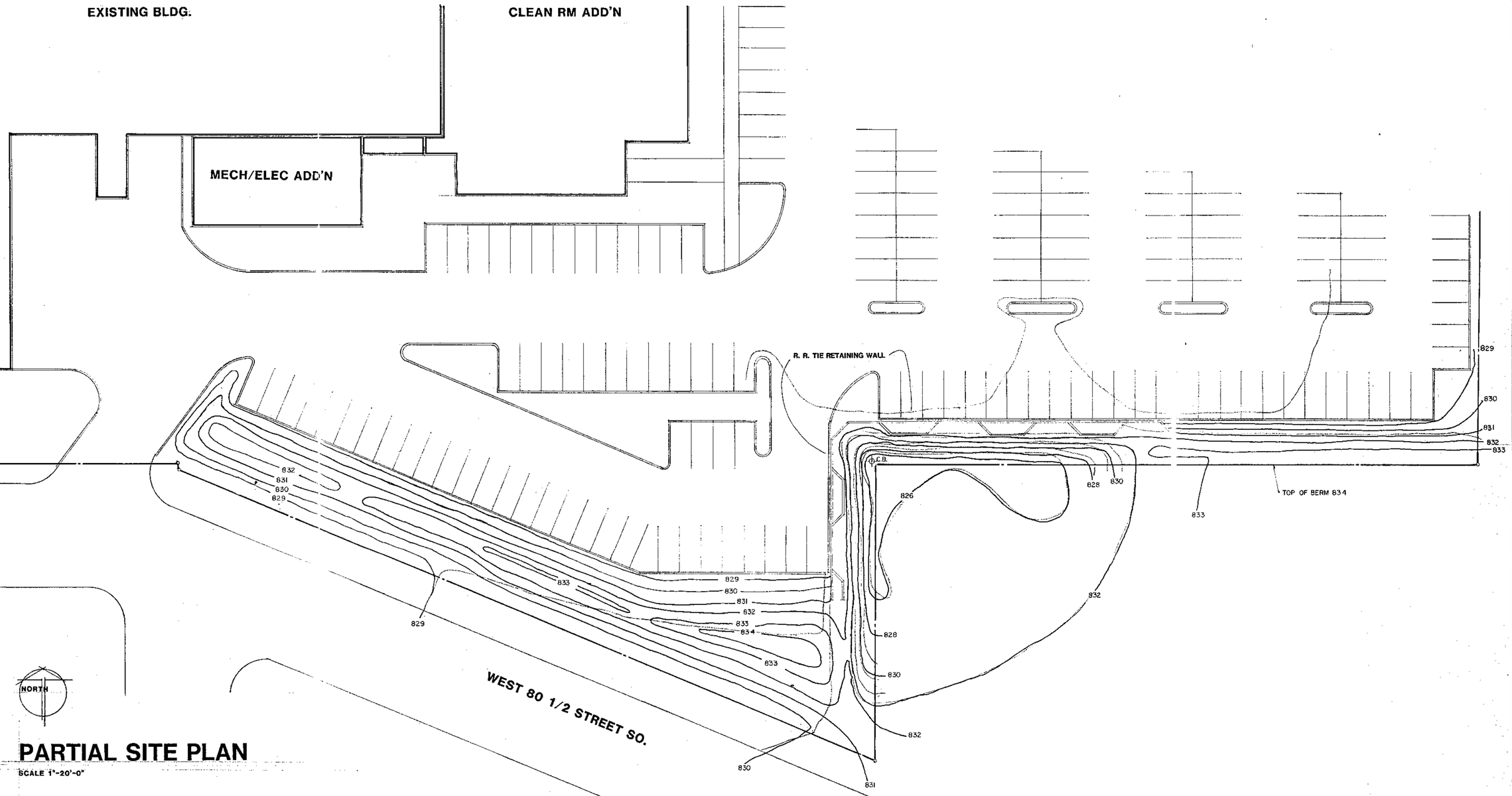
DATE REG. NO.

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

Pope Associates Inc
Architects ○ Engineers ○ Planners
350 St. Claire Avenue • St. Paul, MN 55102 612/291-1997

L-1

PL2022-188
PL202200188



PARTIAL SITE PLAN

SCALE 1"-20'-0"

CITY OF BLOOMINGTON, MN
LANDSCAPE PLAN APPROVED
By _____
Director of Planning
Date 5/5/83

Approved Plan

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.

DATE _____ REG. NO. _____

REVISIONS
DATE | MARK

DATE
COMM NO.
DRAWN BY
CHECKED BY

CDC/MPS
5001 EAST BLOOMINGTON FREEWAY, BLOOMINGTON, MINNESOTA

Pope Associates Inc
Architects • Engineers • Planners
555 Sibley Avenue • St. Paul, Minnesota 55102 • 612/291-1888

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.

ISLAND UNITS. A + B. PLANT SAME BOTH SIDES. TREE O.C. ALL 30'

UNIT A

UNIT B

UNIT A

UNIT B

UNIT A

UNIT A

KEY	VARIETY	QUANTITY	SIZE
1	ACER RUBRUM NORTHWOOD MAPLE	20	3½"-4" B.&B.
2	FRAXINUS MARSHALLS SEEDLESS	10	3½" B.&B.
3	ACER SUGAR MAPLE	8	3½" B.&B.
4	BETULA PAPER BIRCH CLUMP	4	8½' Mt.
5	MALUS RADIANT CRAB	2	6½' Pot
6	MUGHO PINUS MUGO MUGHUS	37	18"-24" Cont.
7	HUGHES JUNIPERUS HORIZONTALIS	38	18"-24" Cont.
8	ANDORRA COMPACTA JUN. HORIZONTALIS PLUMOSA	36	18"-24" Cont.
9	PFITZER JUNIPERUS CHINENSIS	63	18"-24" Cont.
10	MANAJI JUNIPERUS CHINENSIS	24	24"-30" Cont.
11	COLORADO GREEN SPRUCE PICEA PUNGENS	28	4½'-5' Pot
12	PINE AUSTRIAN PINUS NIGRA	14	4½'-5' Pot
13	PINE SCOTCH PINUS SYLVESTRIS	14	4½'-5' Pot
14	SPRUCE, BLACK HILL PICEA GLAUCA DENSATA	12	4½'-5' Pot
15	SPRUCE, COLORADO BLUE PICEA PUNGENS GLAUCA	8	4½'-5' Pot
16	SPIREA ANTHONY WATERER x BUMALDA ALB.	18	15" Pot
17	EUONYMUS WINGED ALATUS	37	18"-24" Pot
18	DOGWOOD ISANTI CORNUS STOLONIFERA ISANTI	42	2'-3' Pot
19	DOGWOOD LUTEA YELLOW STOLONIFERA FLAVIRAMEA	14	2'-3' Pot
20	PRUNUS CISTENA	5	4'-5' Pot
21	MOCKORANGE GOLDEN PHILADELPHUS AUREA	27	15"-18" Pot
22	WEIGELA, VARIEGAT	13	15"-18" Pot
23	POTENTILLA CORONATION TRIUMPH C. FRUTICOSA	28	15" Pot
24	VIBURNUM AMERICANA HI BUSH	7	18"-24" Pot
25	AZALEA, MOLLIS HYBRIDS	6	12" Pot
26	COTONEASTER CRANBERRY APICULATA	33	12"-24" Pot
27	AMUR MAPLE DWARF ACER GINNALA COMPACTA	9	3'-4' Pot
28	SNOWBERRY CHENAULTI SYMPHORICARPOS	7	2'-3' Pot
29	HONEYSUCKLE EMERALD MOUND LONICERA XYLOSTEUM	4	12"-18" Pot
30	CARAGANA, SIBERIAN PEA SHRUB C. ARBORESCENS	5	2'-3' Pot
31	JUNIPER IOWA JUNIPERUS CHINENSIS IOWA	4	24"-30" B&B
32	YEW TAUTON SPREADING TAXUS X MEDIA	5	2'-3' B&B

254.41

33. FLEECE FLOWER-60
☆ ASPEN-CLIPS
△ VALLEY VIEW EDGE

1"=20'-0"

Approved Plan

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

Pope Associates Inc
Architects Engineers Planners
2500 Silver Bell Road, Suite 220 Mendota Heights, MN 55120 (612) 452-3888

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.
DATE REG. NO.

REVISIONS DATE MARK

4-18-22 DATE
COMM NO.
DRAWN BY
CHECKED BY

L1

PL2022-188
PL202200188

EAST BLOOMINGTON FREEWAY

354.75

EXISTING DRIVE

EXISTING BUILDING

364.03

WEST 80 1/2 STREET SOUTH

1" = 20'-0"

LANDSCAPE PLAN

Key	Variety	Quantity	Size
1	ACER RUBRUM 'AUTUMN FLAME'	20	1¾"-2" (12' Ht)
2	FRAXINUS PENNSYLVANICA 'MARSHALL SEEDLESS'	10	1¾"-2" (8' Ht)
3	ACER SACCHARUM 'GREEN MOUNTAIN' SUGAR MAPLE	8	1¾"-2" (8' Ht)
4	BETULA PAPYRIFERA PAPER BIRCH CLUMP	4	8'-10' Ht
5	MALUS RADIANT 'RADIANT' FLOWERING CRAB	2	6'-7' Ht
6	MUGHO PINE	57	18"-24" Cont
7	HUGHES JUNIPER	58	18"-24" Cont
8	ANDORRA JUNIPER	56	18"-24" Cont
9	PFITZER JUNIPER GREEN	63	18"-24" Cont
10	MANEYI JUNIPER	29	18"-24" Cont
11	COLORADO BLUE SPRUCE	271 (28)	3½" Ht
12	AUSTRIAN PINE	19 (10)	3½"-4' Ht
13	SCOTCH PINE	14 (6)	3½"-4' Ht
14	BLACK HILLS SPRUCE	12 (5)	3½"-4' Ht
15	COLORADO BLUE SPRUCE	3	3½"-4' Ht
16	SPIREA AUTUMN WATERER	73	15"
17	EUONYMUS ALATUS 'COMPACTUS' ALATUS	39	18-24"
18	DOGWOOD ISANTI	42	2'-3'
19	DOGWOOD LESA	14	2'-3'
20	PRUNUS CISTENA	5	2'-3'
21	MECKORANGE GOLDEN	27	15"-18"
22	WEIGELA 'CANDY' CANDY	13	2'-3'
23	POTENTILLA 'FLORIBUNDA' FLORIBUNDA TRIUMPH	28	12"
24	VIBURNUM 'ALLEGHANY' ALLEGHANY HIGHBUSH	7	18"
25	AZALEA MOLLIS	6	#2
26	COTONEASTER APICULATA	33	18"-24"
27	JUNIPER DWARF	9	3-4'
28	SNOWBERRY VAUGHTI	7	2-3'
29	HONEYSUCKLE EMERALD MOUND	1	15"-18"
30	CARAGANA PYGMAEA DWARF PEA SHRUB	3	2-3'
31	IOWA JUNIPER	4	18"-24"
32	YEW TAUNTON	5	3-3½'
33	PLEGGE PRIVET	60	#2

NOTE: EXISTING TREES FROM FIELD SURVEY

Approved Plan

DATE 1-16-22
COMM NO.
DRAWN BY
CHECKED BY

REVISIONS
DATE MARK

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 Landscape Architect under the laws of the State of Minnesota.
DATE
REG. NO.

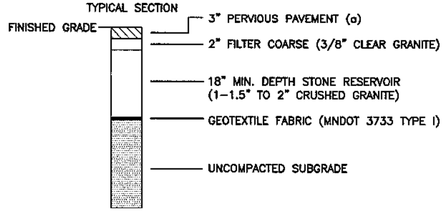
CDC/MPS CLEAN ROOM ADDITION
8001 EAST BLOOMINGTON FREEWAY BLOOMINGTON, MINNESOTA

Pope Associates Inc
Architects Engineers Planners
ESTABLISHED IN MINNEAPOLIS, MINNESOTA 1946

L2

NEW PERMEABLE PAVEMENT AREA

TYPICAL SECTION



PERMEABLE PAVEMENT, BITUMINOUS WEAR COURSE NOTES:

1. 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.
2. 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.
3. The Contractor shall protect the permeable pavement system from sediment, contamination and over compaction during the entire construction process.

(a) The following gradation is recommended by the geotechnical engineer (see Geotechnical Evaluation Report by Braun Intertec 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.

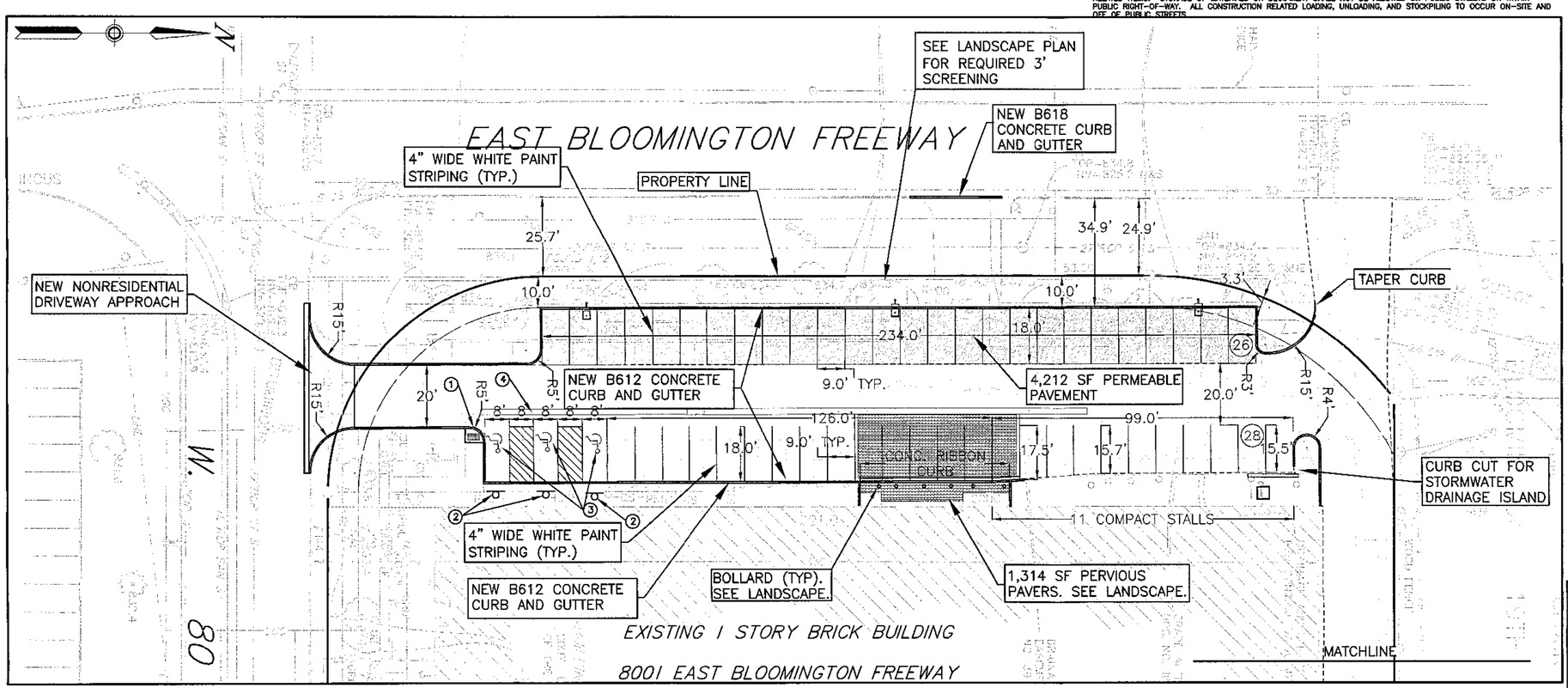
US Standard Sieve Size	Percent Passing
3/4"	100
1/2"	85-100
3/8"	55-75
#4	10-25
#8	5-10
200	2-4

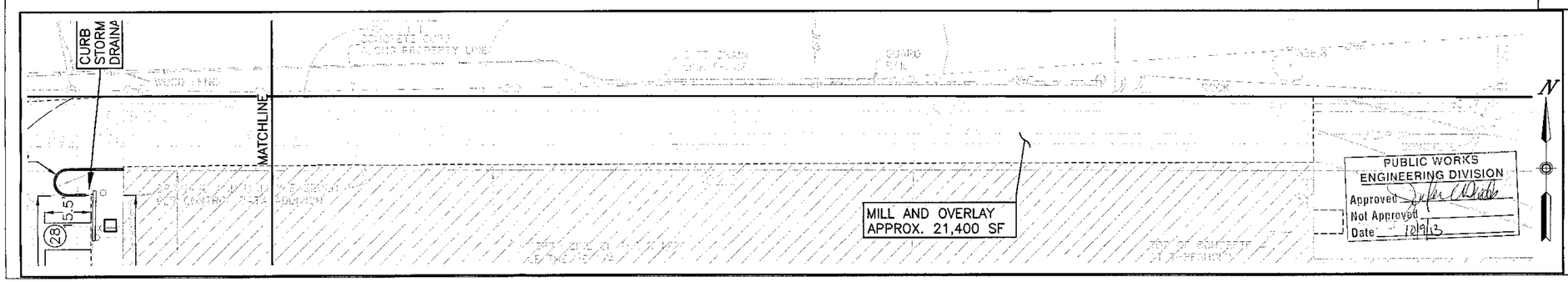
PERMEABLE PAVEMENT NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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:

1. 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.
2. 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.
3. 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.
4. All dimensions are to face of curb (where applicable), edge of pavement, or exterior face of building, unless otherwise indicated.
5. All curb radii shall be three (3) feet minimum unless otherwise noted.
6. 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.
7. White surface markings (letters and symbols) shall be in conformance with the Standard Alphabets for Highway Signs and Pavement Markings, FHA (HTO-20).
8. 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.
9. Typical full size 90° parking stalls are 9' x 18' (non-handicapped) unless otherwise indicated.
10. 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.
11. Preformed expansion joints using 0.5" thickness shall be placed at each end of curb radius, at intersections, and approximately every 200 feet.
12. Contraction joints shall be spaced at 10 foot intervals in the curb and gutter.
13. Construct 2' taper at the free end of all concrete curb and gutter sections.
14. **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**





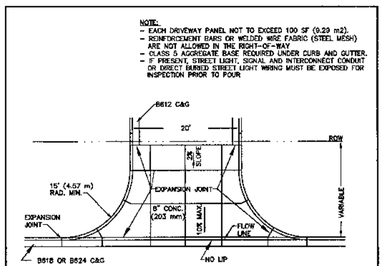
PUBLIC WORKS ENGINEERING DIVISION
Approved
Not Approved
Date 10/9/13

KEYNOTES:

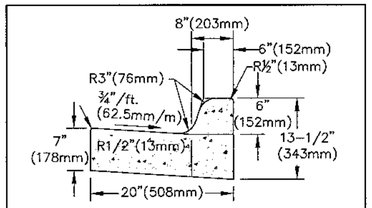
1. HANDICAPPED ACCESSIBLE CURB CUT (TYPICAL)
2. HANDICAPPED ACCESSIBLE PARKING SIGN (TYP.) (SEE SIGNAGE PLAN, BY OTHERS)
3. UNIVERSAL ACCESSIBILITY SYMBOL, PAINTED, 4 FT. HIGH (TYP.)
4. 2% MAXIMUM SLOPE IN ALL DIRECTIONS AT HANDICAPPED PARKING AREA
5. DIMINISH CURB

SCALE 20 0 20 40 IN FEET

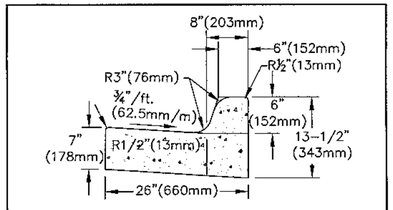
NOTE:
- EACH DRIVEWAY PANEL NOT TO EXCEED 100 SF (9.29 m2).
- REINFORCEMENT BARS OR WELDED WIRE FABRIC (STEEL MESH) ARE NOT ALLOWED IN THE RIGHT-OF-WAY.
- CLASS 5 AGGREGATE BASE REQUIRED UNDER CURB AND GUTTER.
- IF PRESENT, STREET LIGHT, SIGNAL AND INTERCONNECT CONDUIT OR DIRECT BURIED STREET LIGHT WIRING MUST BE EXPOSED FOR INSPECTION PRIOR TO POUR



NONRESIDENTIAL DRIVEWAY APPROACH

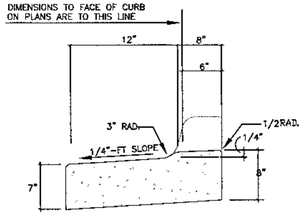


B612 STANDARD CURB & GUTTER
B612_C&G.dwg 4/2009



B618 STANDARD CURB & GUTTER
B618_C&G.dwg 4/2009

DIMENSIONS TO FACE OF CURB ON PLANS ARE TO THIS LINE



CONCRETE RIBBON CURB

NO SCALE

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

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

DESCRIPTION:

SITE LAYOUT AND DIMENSION PLAN

OCT 08 2013
City of Bloomington Engineering Division

SHEET NO:

C2

8001 BLOOMINGTON FRWY.

(2000)

PL2022-188
PL202200188

DRAINAGE AND DEVELOPMENT PLAN FOR:
POPE ASSOCIATES, INC.
CONTROL DATA CORPORATION
WEST 80 1/2 STREET & I 35 W.

SCALE 30 0 30 60 IN FEET

N

BLOOMINGTON 19TH ADDITION

NO. 35 W.

U.S. EXCEPT INTERSTATE HWY.

W. 80 1/2 ST. SO.

CONTROL DATA CORPORATION
1-STORY CONC. BLOCK BLDG.

PROPOSED ADDITION

BITUMINOUS DRIVEWAY

LOW AREA

STEEP BANK

0.62' WIDE CONC. WALL

SURFACE DRAINAGE AND UTILITY EASEMENT

PRAIRIE VILLAGE 3RD ADDITION

PRAIRIE VILLAGE 2ND ADDITION

EDGE OF BITUMINOUS

FENCE

REV 9-13-00

VACATE F.H. VALVE TO WATER MAIN. PROVIDE NEW TAP APPROX 80' TO BRANCH, CONNECT NEW LINE INTO SPRINKLER (FIRE) SYSTEM. LINE SIZE - 6" FIELD VERIFY CLASS 56 DUCTILE PER M/DOT W/ DOUBLE CHECK RETURN METER TO CITY FOR REVIEW

CATCH BASIN "G" (TO REMAIN)
T.C. = 828.3 (EXIST)
INV. = 823.1 (EXIST)
BLOCK 18" LEAD FROM EAST

CATCH BASIN "J" (REVISE T.C. & INV. EL.)
T.C. = 826.8 (EXIST)
T.C. = 827.42 (NEW)
INV. = 823.5 (EXIST)
INV. = 823.87 (NEW)

CATCH BASIN "K" (REVISE T.C. ELEV.)
T.C. = 826.9 (EXIST)
T.C. = 827.36 (NEW)
INV. = 824.0 (EXIST)
INV. = 824.08 (NEW)

NEW CATCH BASIN "I"
T.C. = 827.54
INV. = 823.46

NEW CATCH BASIN "H"
T.C. = 827.38
INV. = 823.00

M.H. "L"
BUILD NEW M.H. ON EXISTING 24" R.C.P.
T.C. = 828.3
INV. = 822.84

ST. S. M.H.
T.C. = 826.60 (EXIST)
INV. = 821.81 (EXIST)

INSTALL 30 L.F. 12" RCP ST. S. FOR ROOF DRAIN CONNECTION. BULKHEAD END.
INV. AT END = 824.0

18" R.C.P. LEAVE IN PLACE ENDS TO BE PLUGGED

24" R.C.P. (EXISTING)

12" RCP (REMOVE AND RE-LAY)

RE-LAY 18" R.C.P.

RE-LAY 15" R.C.P.

INSTALL 18" R.C.P.

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

Gerald M. Sunde, P.E.

Date December 13, 1982 Reg. No. 8734

SUNDE LAND SURVEYING, INC
9001 E. BLOOMINGTON FREEWAY (35W)
BLOOMINGTON, MINNESOTA 55420
PHONE 612-881-8463

GERALD M. SUNDE P.E.
CONSULTING ENGINEER
10524 ZION AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
PHONE 612-881-3344

Pope Associates Inc.
Architects • Engineers • Planners
533 St. Clair Avenue • St. Paul, MN 55102 • 612-291-8894

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

A 3 17

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.

DATE

REGISTRATION NUMBER

ISSUES & REVISIONS
ISSUED 9-13-00

RECEIVED

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WINTHER • JOHNSON • ROBINSON, INC.
COMMERCIAL INTERIORS & ARCHITECTURE
7025 FRANCE AVENUE SOUTH SUITE 101 EDINA, MINNESOTA 55435
952-922-8512 FAX: 952-922-8808

PROJECT
GN ReSound
North America

DRAWN APPROVAL DATE 03-08-00 SCALE 1" = 30'

TITLE SITE SURVEY/SITE PLAN

LOCATION 8001 E Bloomington Fwy

PROJECT NO 99-179.01G

SHEET C1 OF 30

8001 E Bloomington Fwy
(2013 project)

PL2022-188
PL202200188

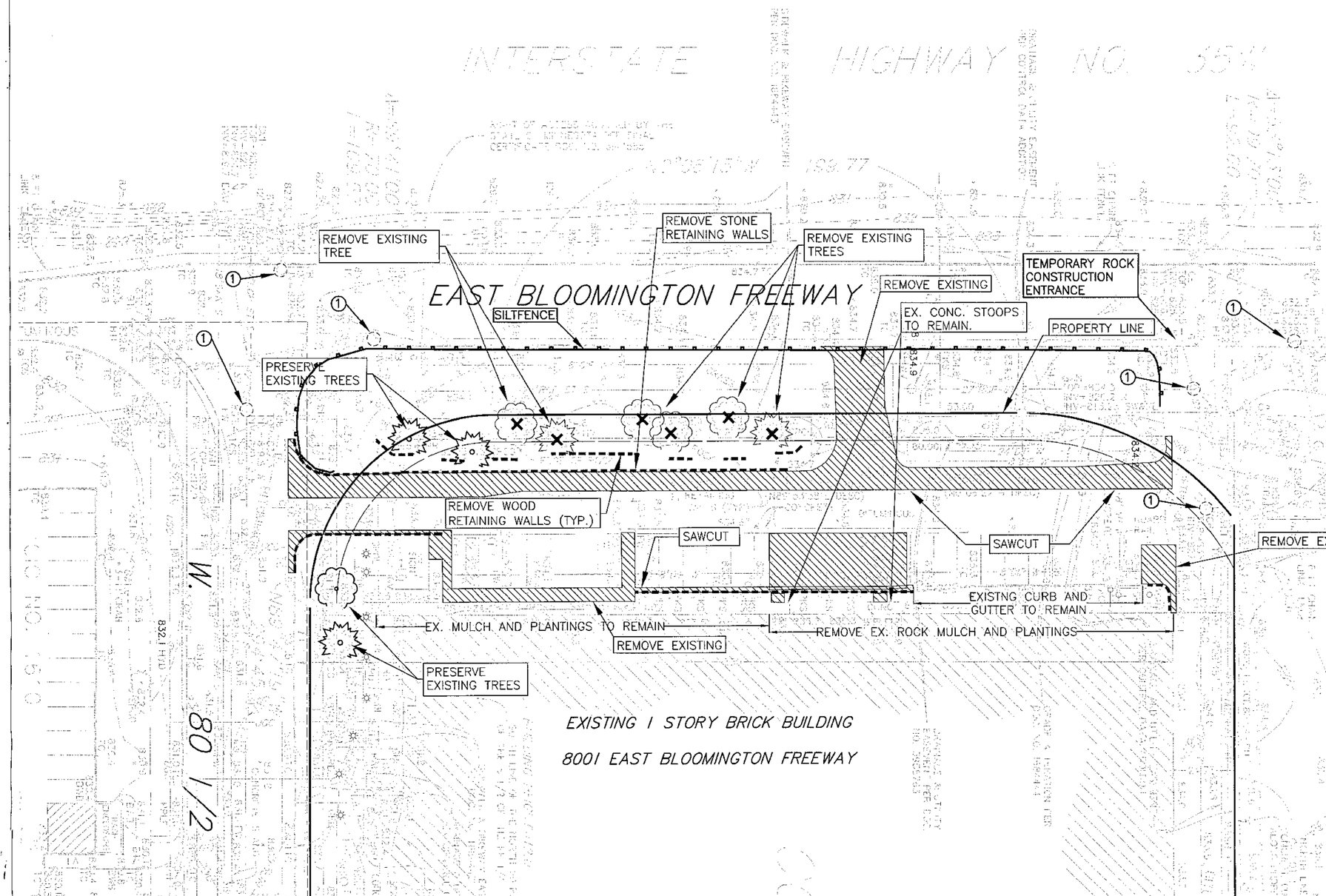
CALL BEFORE YOU DIG

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

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

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.



KEYNOTES

KEYNOTES ARE DENOTED BY: ①.

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

N

20 0 20 40
SCALE IN FEET

Sunde Engineering, PLLC.
CONSULTING CIVIL ENGINEERS
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(952) 881-3344 TELEPHONE
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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 Pervious 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

PL2022-188
PL202200188

GENERAL:

1. Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional engineer (www.osha.gov).

2. Construction safety is solely the responsibility of the Contractor, who is also solely responsible for the means, methods, and sequencing of the construction operations.

3. 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. The Engineer is not responsible for inaccuracies related to the survey information.

4. Perform all construction work in accordance with State and Local requirements.

5. A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and detail dimensions prior to construction staking. Stake the limits of walkways and curbing prior to valvebox, maintenance hole, and catchbasin installation. Adjust valvebox and maintenance hole locations in order to avoid conflicts with curb and gutter. Adjust catchbasin locations in order to align properly with curb and gutter.

6. Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.

7. The Contractor is solely responsible for all utility locates. Contact utility companies for locations of all public and private utilities within the work area prior to beginning construction. Contact GOPHER STATE ONE CALL at (651) 454-0002 in the Minneapolis/St. Paul metro area, or 1-800-252-1166 elsewhere in Minnesota for exact locations of existing utilities at least 48 working hours (not including weekends and holidays) before beginning any construction in accordance with Minnesota Statute 216D. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Gopher State One Call is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.

8. Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation, offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.

9. Arrange for and secure suitable disposal areas off-site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the OWNER.

10. Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Tack and match all connections to existing bituminous pavement.

11. Protect sub grades from damage by surface water runoff.

12. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.

13. 2% maximum slope in all directions in handicapped accessible parking areas.

14. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.

15. Obtain permits from the City for work in the public right-of-way.

16. The Engineer is not responsible for means, methods, safety, and sequencing.

POLLUTION PREVENTION MANAGEMENT MEASURES:

1. Solid Waste: Dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes properly off-site in compliance with Minnesota Pollution Control Agency requirements.

2. Hazardous Materials: Properly store oil, gasoline, paint and any hazardous substances in order to prevent spills, leaks or other discharge. Include secondary containment. Restrict access to storage areas in order to prevent vandalism. Storage and disposal of hazardous materials must be in compliance with MPCA regulations.

3. Other Materials: Dispose of unused building materials, garbage, trash, cleaning wastes, toxic materials, and wastewater properly off-site and in compliance with Minnesota Pollution Control Agency disposal requirements.

4. Furnish suitable trash containers and regularly remove the accumulated trash from the premises.

5. Do not allow solid waste, hazardous materials, and other materials shall to be carried by runoff into a receiving water or storm sewer system.

6. Limit external washing of trucks and other construction vehicles to a defined area of the site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device. Contain runoff and properly dispose of waste. Engine degreasing is prohibited.

7. Concrete Washout Operations: Contain all liquid and solid wastes generated by concrete washout operations in a leak-proof containment facility or impermeable liner. Do not allow the liquid and solid wastes to contact the ground. Prevent runoff from the concrete washout operations or areas. Dispose of liquid and solid wastes properly in compliance with Minnesota Pollution Control Agency regulations. Install a sign shall adjacent to each washout facility in order to inform concrete equipment operators to utilize the proper facilities.

8. Sanitary and Septic Waste: Furnish and install detached portable toilet facilities at the construction site. The portable toilets shall be conveniently located for the use of all workers on the project. Maintain the facilities in a clean, dry, sanitary condition in accordance with Minnesota Department of Health requirements.

NINE MILE CREEK WATERSHED NOTES:

1. All erosion control measures shown on the plans must be installed prior to commencement of grading operations and be maintained until all areas altered on the site have been restored.

2. If silt fence is used, the bottom flap must be buried and the maximum allowable spacing between posts is 4-foot on center. All posts must be either 2-inch x 2-inch pine, hardwood, or steel fence posts. If hay bales are used, all bales must be staked in place and reinforced on the downstream side with snow fence.

3. All areas altered because of construction must be restored with seed and disced mulch, sod, wood fiber blanket, or be hard surfaced within two weeks after completion of construction, or no later than November 1.

4. Upon completion of construction and restoration of areas disturbed, the Contractor is responsible for the removal of all erosion control measures installed throughout the project site.

5. At all entryways onto the site, a rock filter dike being a minimum of two feet in height and having maximum side slopes of 4:1 must be constructed. This rock filter dike will enable construction traffic to enter the site and also provide an erosion control facility.

6. Notify the NMCWD a minimum of 48 hours prior to commencement of construction.

7. If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system.

SEDIMENT CONTROL PRACTICES:

1. Implement sediment control practices in order to minimize sediment from entering surface waters, including curb and gutter systems and storm drain inlets.

2. Install all temporary or permanent sediment control measures including silt fence at perimeter of construction, rock construction entrances, sediment filters, silt sacks, and sedimentation basins prior to beginning site clearing, grading, or other land-disturbing activity.

3. Establish sediment control practices on all down gradient perimeters before any up gradient land disturbing activities begin. These practices must remain in place until final stabilization has been established.

4. The timing of the installation of sediment control practices may be adjusted in order to accommodate short-term activities, but sediment control practices must be installed before the next precipitation event even if the short-term activity is not complete.

5. Prior to beginning site clearing and grading, protect all storm sewer inlets that receive runoff from disturbed areas. In order to prevent sediment from entering the storm sewer system, seal all storm sewer inlets that are not needed for site drainage during construction. Protect all other storm sewer inlets by installing sediment control devices, silt sacks, or staked silt fence. Straw bales or fabric under the grates are not acceptable forms of inlet protection. Protect new storm sewer inlets as they are completed. Maintain storm sewer inlet protection in place until all sources with potential for discharging to the inlets are stabilized.

6. Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the construction site. Use 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, CA-3, or equal Coarse Aggregate. Place the aggregate in a layer at least 152 mm (6 inches) thick across the entire width of the entrance. Extend the rock entrance at least 15 m (50 feet) into the construction zone. Use a MNDOT Standard Specification 3733 Type V permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with additional stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.

7. If necessary, clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device.

8. Remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction. Clean paved roadways by shoveling or wet-sweeping. Do not dry sweep. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.

9. Silt Fence: Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. Make any splices in the fabric at a fence post. At splices, overlap the fabric at least 152 mm (6 inches), fold it over, and securely fasten it to the fence post. Silt fence supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall meet the requirements of MNDOT Standard Specification 3886 for preassembled silt fence, furnished in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange.

10. Coordinate a meeting between a representative of the grading contractor, the Owner of the project, and the Watershed District staff in order to review the erosion control plan and the requirements of the Watershed District prior to any work on the site. Notify the Watershed District staff immediately after the erosion control measures are installed. Do not begin grading work until the Watershed District staff approves the installed erosion control measures.

11. Maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenspace). Repair any rilling, gully formation, or washouts. After final establishment of permanent stabilization, remove all temporary synthetic, structural, and nonbiodegradable erosion and sediment control devices and any accumulated sediments. Dispose-of off site. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.

EROSION PREVENTION PRACTICES:

1. Delineate the location of areas not to be disturbed (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.

2. Avoid removal of trees and surface vegetation wherever possible. Schedule construction in order to expose the smallest practical area of soil at any given time. Implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion.

3. Following initial soil disturbance or redisturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water as soon as possible, but in no case later than 14 calendar days , on all disturbed or graded areas including stormwater management pond sideslopes. This requirement does not apply to those areas that are currently being used for material storage or for those areas on which grading, site building, or other construction activities are actively underway.

4. Provide temporary grass seed cover on all topsoil stockpiles and other areas of stockpiled excavated material in order to prevent soil erosion and rapid runoff during the construction period. Prolonged periods of open, bare earth without grass cover will not be permitted. Stabilize all disturbed greenspace areas with a minimum of 4" topsoil immediately after final subgrade completion. Seed and mulch, or sod and stake these areas within 48 hours after completion of final grading work (weather permitting).

5. Apply necessary moisture to the construction area and haul roads in order to prevent the spread of dust.

SOIL STABILIZATION:

1. Water and maintain seeded or sodded areas on a timely day-to-day basis. In the event of a seeding failure, reseed and remulch the areas where the original seed has failed to grow and perform additional watering as necessary at no additional cost to the Owner. Promptly replace all sod that dries out to the point where it is presumed dead and all sod that has been damaged, displaced, weakened, or heavily infested with weeds at no additional cost to the Owner.

2. In areas to be temporarily seeded, use introduced seed mixture equivalent to MNDOT No. 250. Apply seed mixture at a rate of 78.4 kg per hectare (70 lbs per acre) in accordance with MNDOT Standard Spec. 2575. Incorporate a Type 3 fertilizer (slow release type with 10 week residual) consisting of 22-5-10 (22N-P-K) into the soil at an application rate of 392 kg per hectare (350 lbs per acre) by disking prior to seeding.

3. In areas to be permanently stabilized, landscape with decorative rock, plantings, and sod (refer to Landscape Plan for design and details).

4. In seeded areas with slopes equal to or flatter than 4:1, apply MNDOT Standard Spec. 3882 Type 1 mulch uniformly over the soil surface by hand or machine within 24 hours after seeding in accordance with MNDOT Standard Spec. 2575.3. Apply mulch at a rate of 4.5 metric tons per hectare (2 tons per acre). Immediately after placement, anchor all mulch material into the soil by crimping (straight disking) in a direction perpendicular to that of the overland storm water flow. Punch the mulch into the soil to a depth of 2 to 3 inches with a disk spacing of 8" or less.

MATERIALS:

1. Storm Sewer Inlet Protection: The following are approved inlet sediment control devices:

   a. Road Drain Top Slab Model RD 23 (fits rough opening for 2'x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for 27" inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4"x17-3/4" dimensions) manufactured by WIMCO, 798 Theis Drive, Shakopee, MN, 55379, Phone (952) 233-3055.

   b. Silt Sack: Regular flow (40 gal/min/sq. ft). Average width strength equal to 165.0 lbs/in, ASTM D-4884. Rectangular siltsack on rectangular inlets. Round siltsack on round inlets. Use ACF Environmental, Inc., 2831 Cardwell Road, Richmond, VA 23234, Phone (800) 448-3636, or approved equal.

   c. InfraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard frames are available to fit 24" to 30" diameter and 2'x3' openings. Distributed by ROYAL ENTERPRISES AMERICA, 30622 Forest Boulevard, Stacy, MN, 55079, Phone (651) 462-2130.

   d. Ridge Bag Rock Log. Use rock logs only for curb inlets after pavement is in place. Manufactured by RED BARN RIDGE, 3135 County Road 136, Saint Cloud, MN, 35301, Phone (320) 253-3744.

2. Topsoil: Topsoil used for finish grading of areas to be turfed or planted shall meet the requirements of MNDOT Standard Specification 3877 for topsoil borrow modified to contain no more than 35% sand. Topsoil shall be reasonably free of subsoil, heavy clay, coarse sand, stones, and other objects over 51 mm (2 inches) in diameter; and without plants, roots, sticks, and other objectionable material.

3. Mulch: MNDOT Standard Specification 3882 Type 1 mulch material.

4. Geotextile Fabric for Subgrade Stabilization (if required): MNDOT Standard Specification 3733 Type I permeable geotextile material.

5. Supporting Posts for Siltfence: 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage.

6. Siltfence Fabric: MNDOT Standard Specification 3886 self supporting silt fence. Furnish in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange.

7. Aggregate for Temporary Rock Construction Entrance: 25 mm (1 inch) to 50 mm (2 inch) diameter rock, MNDOT Standard Specification 3137 CA-1, CA-2, or CA-3 Coarse Aggregate, or equal.

8. Geotextile Fabric for Temporary Rock Construction Entrance: MNDOT Standard Specification 3733 Type V permeable geotextile fabric material.

9. Temporary Seed: MNDOT Standard Spec. 3876 No. 250.

10. Fertilizer: Slow release type with 10 week residual consisting of 22-5-10 (22N-P-K).

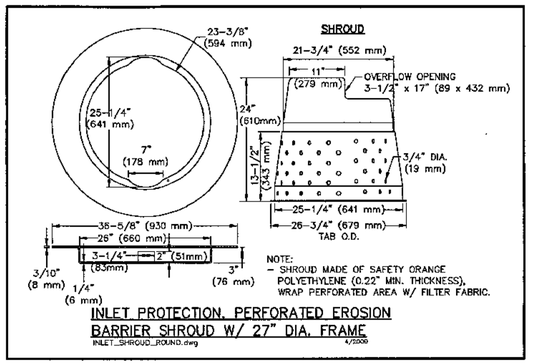
11. Biodegradable Erosion Control Blankets: In accordance with MNDOT Standard Specification 3885.

12. Staples: Staples used to anchor erosion control blankets shall be U-shaped, 3 mm diameter or heavier steel wire. The span width at the crown shall be a minimum of 25 mm (1 inch). Staples shall have a length of 250 mm (10 inches) or more from top to bottom after bending.

FINAL STABILIZATION:

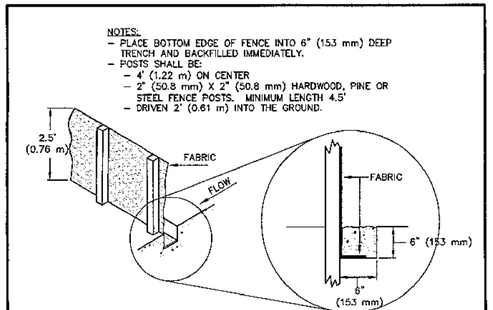
1. Complete all soil disturbing activities at the site and stabilize all soils by a uniform perennial vegetative cover with a density of 70% over the entire pervious surface area, or other equivalent means necessary in order to prevent soil failure under erosive conditions.

2. Remove all temporary synthetic and structural erosion prevention and sediment control BMPs (such as silt fence) prior to submission of the Notice of Termination. BMPs designed to decompose on site (such as some compost logs) may be left in place.



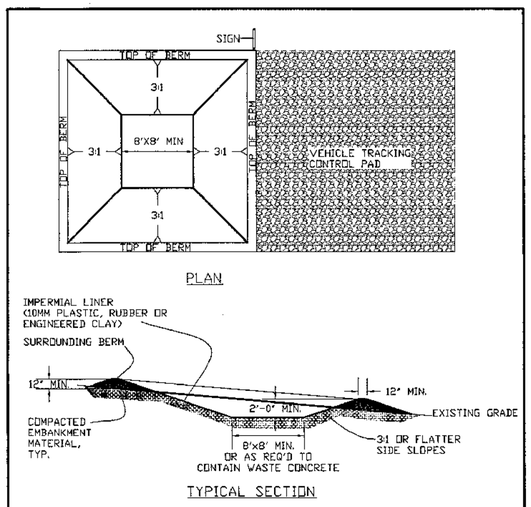
INLET PROTECTION, PERFORATED EROSION BARRIER SHROUD W/ 27" DIA. FRAME

INLET_SHROUD_ROUND.dwg 4/2009



EROSION CONTROL FENCE

SILT_FEN_STD.dwg 4/2009



TYPICAL SECTION

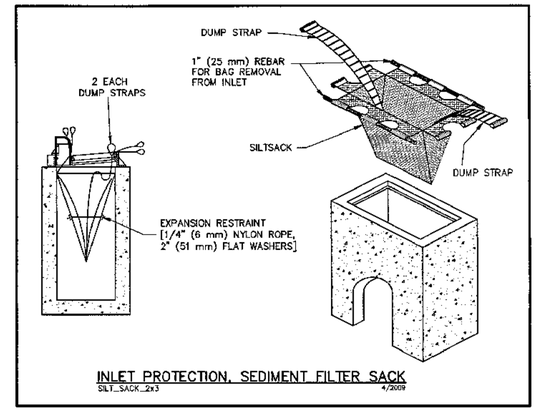
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, INLETS OF WATER, AND INLETS)
2. THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

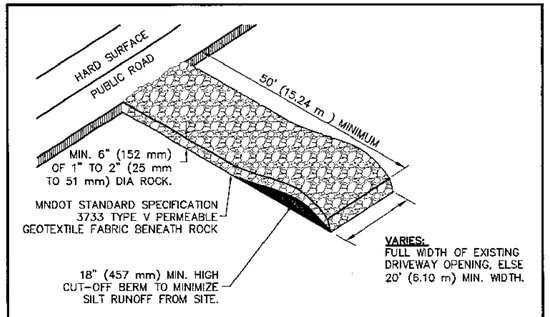
6. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
7. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
8. WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
9. INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.

ON-SITE CONCRETE WASHOUT AREA



INLET PROTECTION, SEDIMENT FILTER SACK

SILT_SACK_2x3 4/2009



ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS

ROCK-ENTR.dwg 4/2009

Sunde Engineering, PLLC.

CONSULTING CIVIL ENGINEERS
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
(952) 881-3344 TELEPHONE
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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 Pervious Pavers
10/7/13	Revise Landscape Pervious Paver 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.: 23488

INFORMATION:

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

DESCRIPTION:

Notes and Details

RECEIVED
OCT 08 2013
City of Bloomington
Engineering Division

SHEET NO:

C4

CALL BEFORE YOU DIG

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

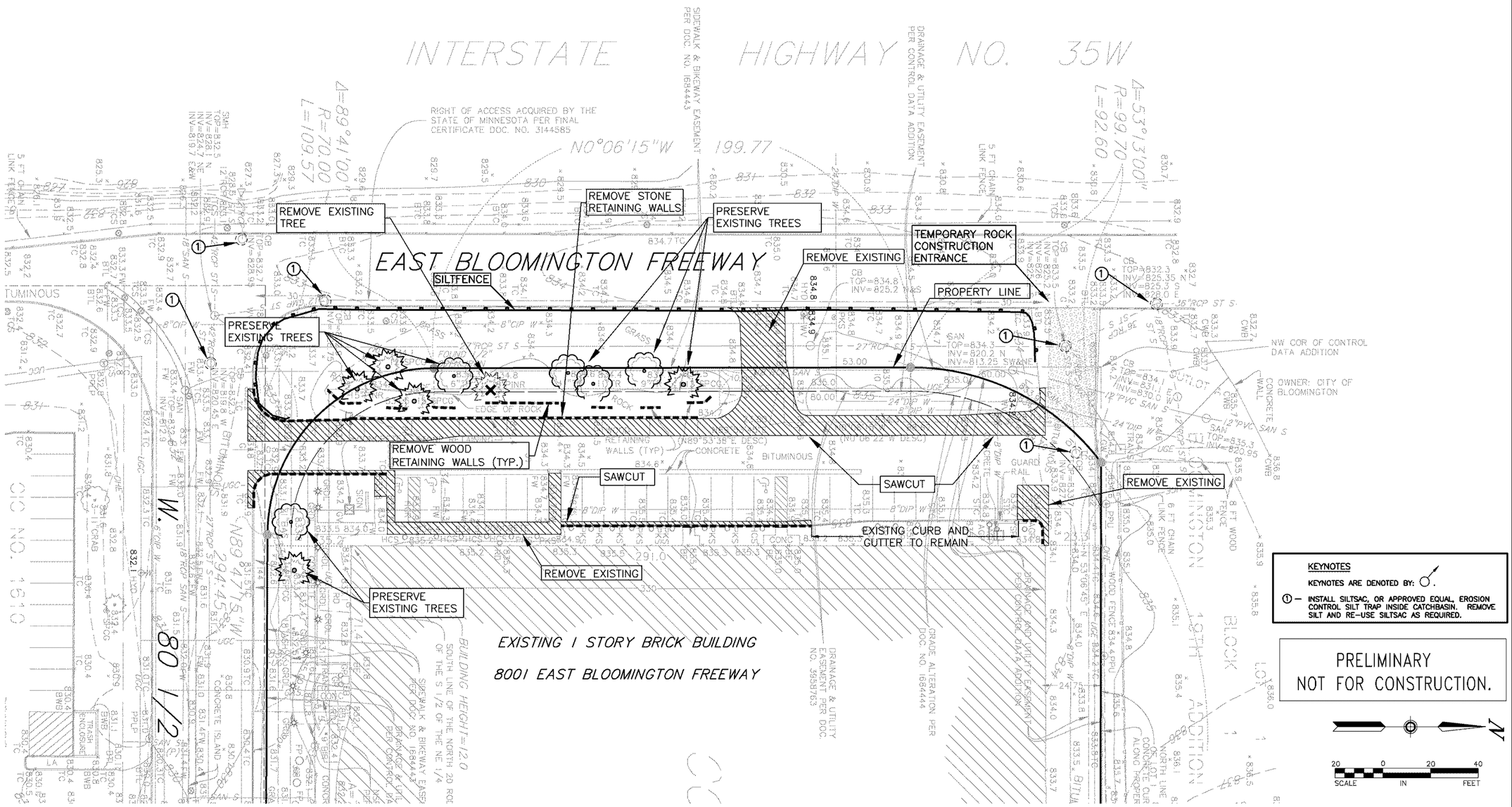
The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

6291ABC-13
GN Resound
8001 East Bloomington Freeway

PL2022-188
PL202200188

SITE CLEARING:

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.



KEYNOTES

KEYNOTES ARE DENOTED BY: ①.

① – INSTALL SILTSAC, OR APPROVED EQUAL, EROSION CONTROL SILT TRAP INSIDE CATCHBASIN. REMOVE SILT AND RE-USE SILTSAC AS REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION.

N

20 0 20 40
SCALE IN FEET

Sunde Engineering, PLLC
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www.sundecivil.com

8001 EAST BLOOMINGTON FREEWAY

PARKING EXPANSION

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
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

#05-702 T. , R. , S. MBA DRAWING: \\SERVER\Projects\2005\#05-702 Bentley-Forbes Bloomington\2013-07-10\05702C10 West Parking Expansion.dwg LAYOUT: C1-Demo Plan XREF: Survey

CALL BEFORE YOU DIG

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

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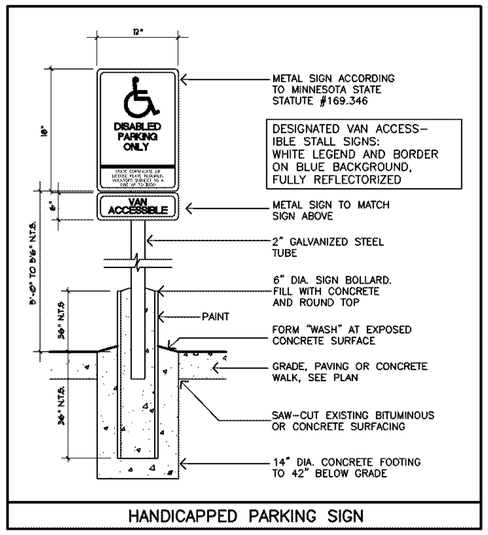
6291ABC-13
GN Resound
8001 East Bloomington Freeway



HANDICAPPED PARKING SIGN

PL2022-188
PL202200188

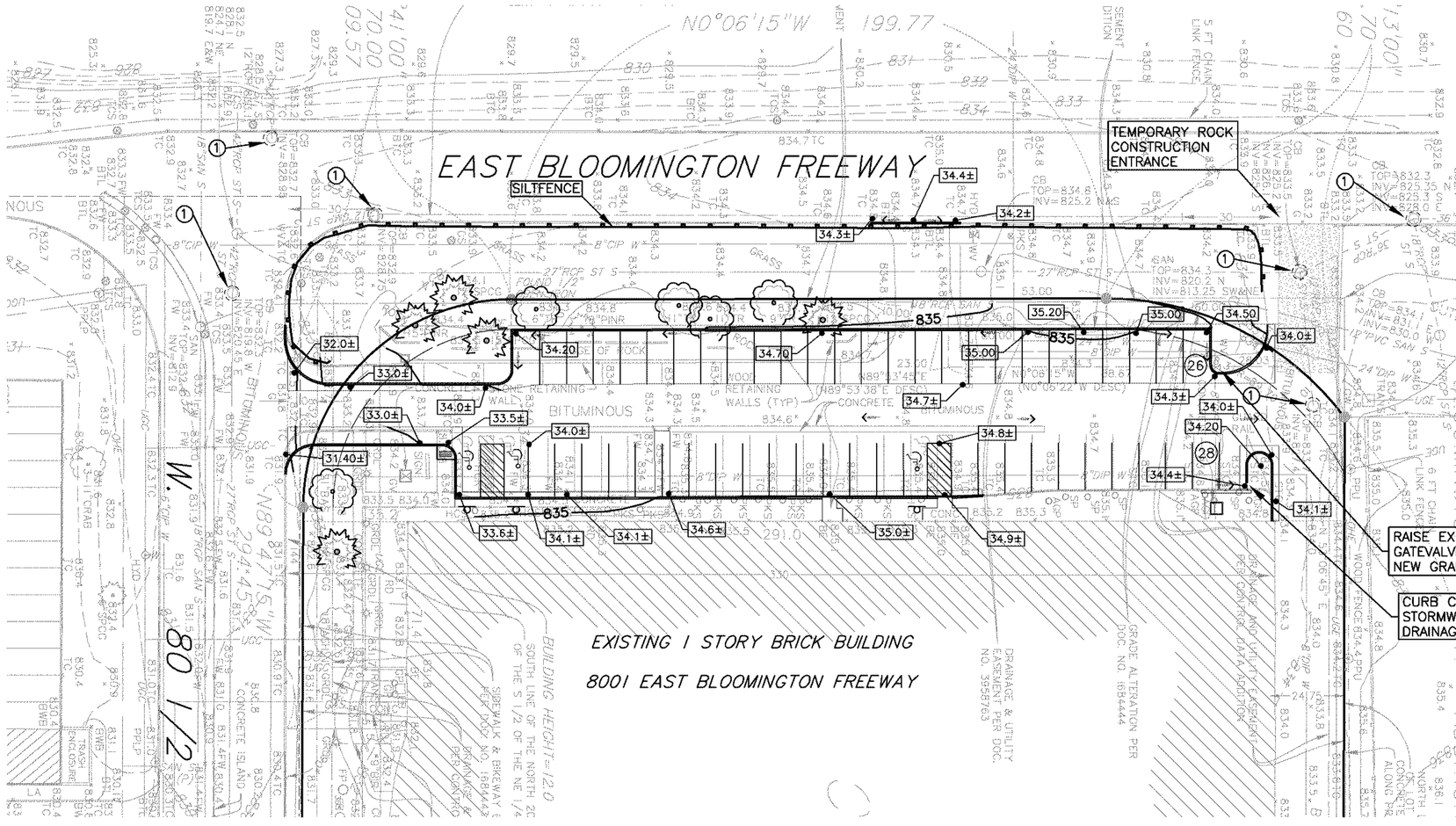
SITE GRADING:

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



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PRELIMINARY
NOT FOR CONSTRUCTION.

N

SCALE 20 0 20 40 IN FEET

#05-702 T. , R. , S. MBA DRAWING: \\SERVER\Projects\2005\#05-702 Bentley-Forbes Bloomington\2013-07-10\05702C10 West Parking Expansion.dwg LAYOUT: C3 - GRADING XREF: Survey

Sunde Engineering, PLLC
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www.sundecivil.com

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:	MW
APPROVED BY:	BHM
SCALE:	GRAPHIC
DATE:	07/10/13

DESCRIPTION:

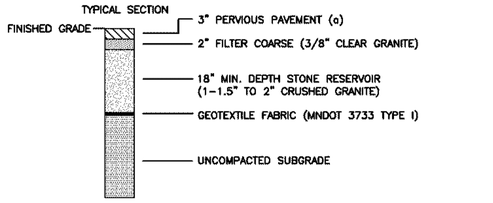
GRADING, DRAINAGE AND EROSION CONTROL PLAN

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:

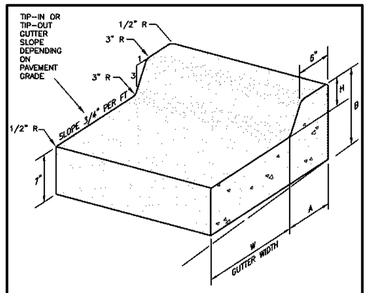
1. The asphalt plant shall submit a mix design at least 48 hours prior to paving. Any significant deviations from the noted mix design shall be documented in an accompanying mix design report describing the added value or benefit for infiltration capacity, durability and/or performance of the permeable pavement.
2. 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.
3. The Contractor shall protect the permeable pavement system from sediment, contamination and over compaction during the entire construction process.

PERMEABLE PAVEMENT NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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:

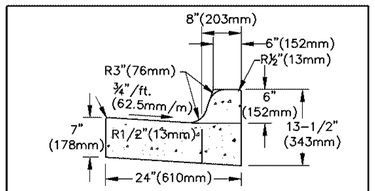
1. Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Sunde Land Surveying, LLC dated 01/15/09.
2. Detectable warnings are required on all public and private ramps. Place the detectable warnings at the back of curb. The ADA required truncated 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.
3. 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.
4. All dimensions are to face of curb (where applicable), edge of pavement, or exterior face of building, unless otherwise indicated.
5. All curb radii shall be three (3) feet minimum unless otherwise noted.
6. 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.
7. White surface markings (letters and symbols) shall be in conformance with the Standard Alphabets for Highway Signs and Pavement Markings, FHA (HTO-20).
8. All new curb and gutter shall be type B612 installed in accordance with MNDOT Standard Spec. 2531 and MNDOT Standard Plate 7100C. Match gutter slopes to pavement cross-slopes.
9. Typical full size 90° parking stalls are 9' x 18' (non-handicapped) unless otherwise indicated.
10. 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.
11. Preformed expansion joints using 0.5" thickness shall be placed at each end of curb radius, at intersections, and approximately every 200 feet.
12. Contraction joints shall be spaced at 10 foot intervals in the curb and gutter.
13. Construct 2' taper at the free end of all concrete curb and gutter sections.
14. **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.**



DIMENSIONS			W = 12"		
				CONCRETE	
H	A	B	DESIGN NUMBER	CU. YDS. / LIN. FT.	LIN. FT. / CU. YD.
6"	8"	13 1/2"	B612	0.0474	21.1

NOT TO SCALE

B612 CONCRETE CURB AND GUTTER



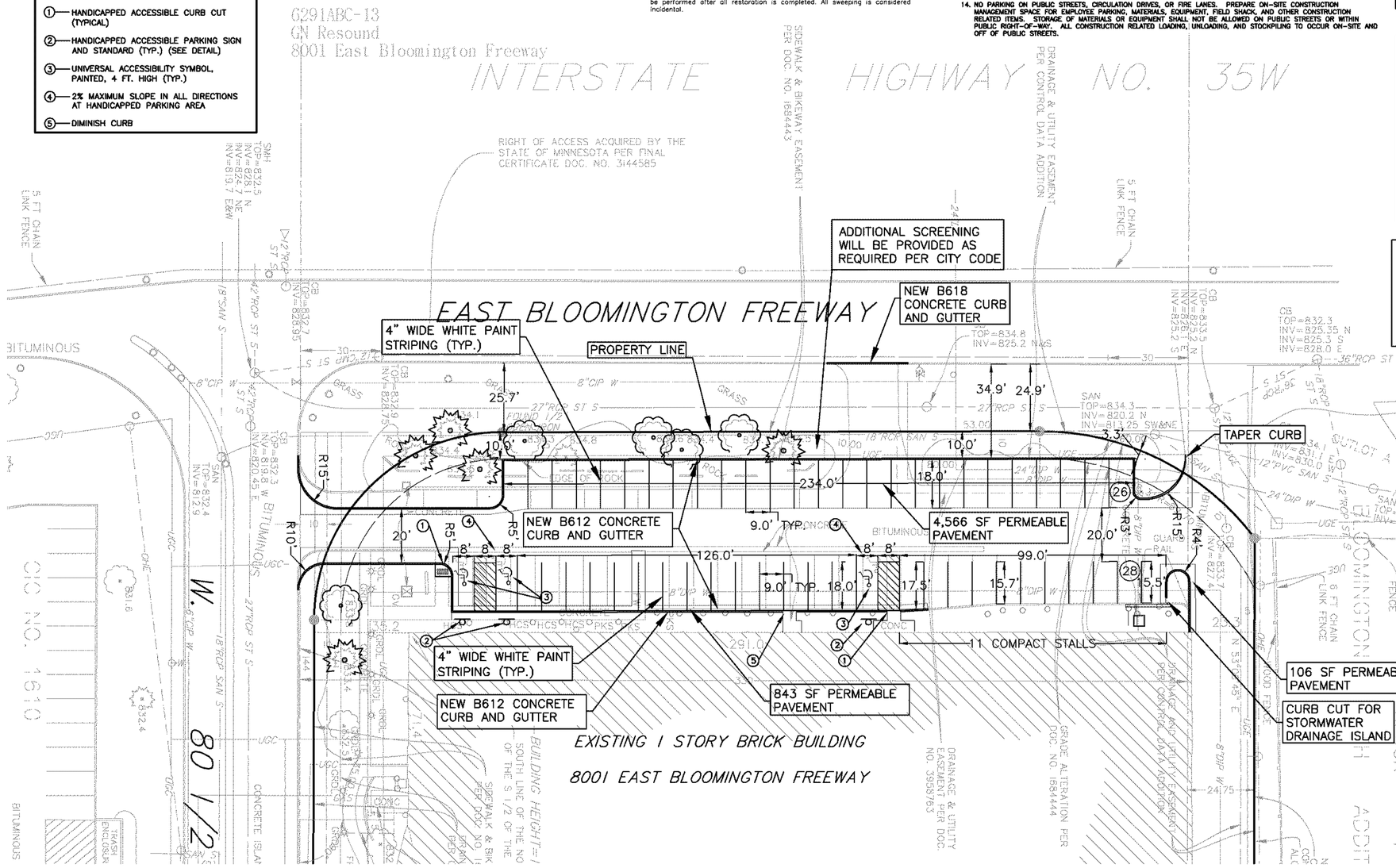
B618 STANDARD CURB & GUTTER

B618_C&G.dwg 4/2009

KEYNOTES:

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

6291ABC-13
GN Resound
8001 East Bloomington Freeway



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

CALL BEFORE YOU DIG — 811 Know what's below. Call before you dig.

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PRELIMINARY
NOT FOR CONSTRUCTION.

SCALE IN FEET: 20 0 20 40

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8001 EAST BLOOMINGTON FREEWAY

PARKING EXPANSION

PL2022-188
PL202200188

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:

SITE LAYOUT AND DIMENSION PLAN

SHEET NO:

C2

2 of 4

PROJECT

PROJECT ADDRESS:
8001 Bloomington Freeway
Bloomington, Minnesota 55420

PL2022-188
PL202200188

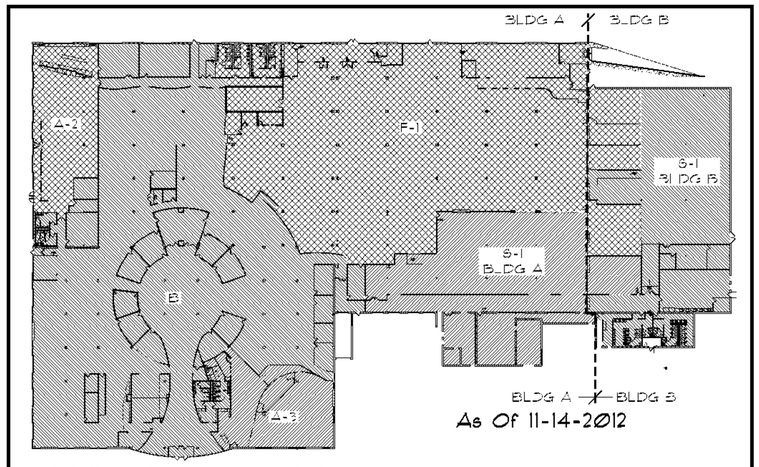
GN Resound

PROJECT TEAM

TENANT:	MANAGEMENT:	PROJECT ARCHITECT / DESIGNER:	GENERAL CONTRACTOR:
GN Resound	GN RESOUND 8001 BLOOMINGTON FREEWAY BLOOMINGTON, MINNESOTA 55420	WJR, INC. 8175-B LEWIS ROAD GOLDEN VALLEY, MN 55427	DELLY CONSTRUCTION, INC. 3253 LYNDALE AVENUE SOUTH BLOOMINGTON, MN 55420
	CONTACT: BRUCE KNUTSON PHONE: 952-768-8141 CELL: 612-308-4609	CONTACT: REED ROBINSON PHONE: 763-398-0454 FAX: 763-398-0455	CONTACT: ANDY DELLY PHONE: 612-751-1488
	E-MAIL: BKNUTSON @ GNRESOUND.COM	E-MAIL: RROBINSON @ WJRINC.COM	E-MAIL: ADELLY @ DELLYCONSTRUCTION.COM

SHEET INDEX

T01 TITLE SHEET/CODE REVIEW
A1 DEMOLITION PLAN/CONSTRUCTION PLAN
A2 REFLECTED CLG PLAN/ELECTRICAL PLAN



GROUP CLASSIFICATION AREAS

GENERAL NOTES

THIS SHEET IS PART OF AN ENTIRE SET OF CONSTRUCTION DOCUMENTS. SEE SHEET T1.0 FOR DRAWINGS THAT GENERAL CONTRACTOR IS RESPONSIBLE FOR. COORDINATION EFFORT SUBCONTRACTORS SHALL OBTAIN ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS GOVERNING THEIR DESIGN, INSTALLATION AND INSPECTION OF THEIR WORK. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE EXTENT AND GENERAL ARRANGEMENT OF WORK. SUBCONTRACTORS SHALL FOLLOW THESE DRAWINGS IN AS A REASONABLE MANNER AS POSSIBLE, UNLESS NOTED OTHERWISE. DRAWINGS ARE NOT TO BE SCALED FOR QUANTITIES. SUBCONTRACTORS SHALL VISIT THE JOB SITE AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AFFECTING THEIR WORK. DRAWINGS ARE NOT INTENDED TO BE USED AS SHOP DRAWINGS. SUBCONTRACTORS SHALL PROVIDE SHOP DRAWINGS AS REQUIRED BY THE SPECIFICATIONS. SUBCONTRACTORS SHALL REVIEW, APPROVE AND COORDINATE ALL SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT FOR REVIEW. SUBCONTRACTORS SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND FIELD CONDITIONS.

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS PRIOR TO STARTING CONSTRUCTION. CONSTRUCTION SHOWN ON THESE DOCUMENTS ARE BASED ON THE BEST AVAILABLE INFORMATION AND DOES NOT INCLUDE ANY HIDDEN OR UNFORESEEN CONDITIONS.

GENERAL CONTRACTOR SHALL KEEP ALL HANDBOOKS, MANUFACTURERS' AND KEYS IN A MARKED ENVELOPE. THIS ENVELOPE SHALL BE TURNED OVER TO THE OWNER UPON THE COMPLETION OF OCCUPANCY REQUIRED DELIVERIES, WARRANTIES, GUARANTEES AND LOCATION OF KEYS FOR MANUALS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CURRENT SET OF CONSTRUCTION DOCUMENTS, THAT GENERAL CONTRACTOR IS RESPONSIBLE FOR, ON THE JOB SITE. DOCUMENTS SHALL INCLUDE ALL ADDENDA, CHANGE ORDERS, AND SHOP DRAWINGS IN AS A REASONABLE MANNER AS POSSIBLE, UNLESS NOTED OTHERWISE. DOCUMENTS SHALL BE KEPT UP TO DATE THROUGHOUT THE DURATION OF THE PROJECT.

ANY ERRORS, OMISSIONS OR CONFLICTS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY. DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS. THE TENANT'S CONTRACTOR SHALL NOTIFY THE TENANT'S PROJECT REPRESENTATIVE IMMEDIATELY. FAILURE TO DO SO MAY CAUSE THE TENANT'S CONTRACTOR TO BE HELD RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

NO CHANGES IN THE WORK SHALL BE ALLOWED UNLESS SUBMITTED TO AND NOTED IN WRITING BY THE BUILDING OWNER OR PROJECT MANAGER'S DESIGNATED REPRESENTATIVE PRIOR TO APPROVAL.

NOTIFICATION OF INTENT TO MAKE SUBSTITUTIONS MUST BE SUBMITTED IN THE FOLLOWING DATES OF CONTRACT AWARD.

ALL MATERIALS AND PRODUCTS USED SHALL MATCH BUILDING STANDARDS OR BEST PRACTICES AS REQUIRED BY BUILDING MANAGEMENT.

REFER TO CONTRACTOR'S LANDLORD RESPONSIBILITY MATRIX (IF AVAILABLE) FOR ADDITIONAL SPECIFICATIONS.

GENERAL CONTRACTOR TO CHECK AND VERIFY ALL SHOP DRAWINGS AND SUBMITTALS. THIS INCLUDES, BUT IS NOT LIMITED TO, LONG LEAD ITEMS, BACKORDERED ITEMS, BACKING LISTS AND THEN NOTIFYING TENANT OF ALL BACK ORDERS OR SHORTAGES. IF THIS IS NOT DONE THE GENERAL CONTRACTOR WILL BEAR ALL COSTS OF ANY UNFILLED LED SLAT OR ANGLE SHAPE IN CONSTRUCTION SCHEDULE.

GENERAL CONTRACTOR AND SUBCONTRACTORS WILL BE FULLY RESPONSIBLE FOR ANY WORK DONE AT THE REQUEST OF THE TENANT OR ARCHITECT WITHOUT APPROVAL FROM THE TENANT OR ARCHITECT.

ALL MODIFICATIONS TO BUILDING STRUCTURE, COMPONENTS SHALL INCLUDE HEAT REINFORCING OF FIRE RATED STRUCTURAL MEMBERS TO FIRE RESISTANCE OF THREE HOURS, AND SECONDARY MEMBERS WHICH DO NOT REQUIRE TO COMPLY WITH SECTION 703.2 OF THE IBC.

WORK WHICH CREATES EXCESSIVE NOISE OR DISRUPTION TO TENANTS SHALL BE PERFORMED DURING NON-BUSINESS HOURS ONLY. CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT.

HVAC SHALL BE DESIGN BUILD UNDER SEPARATE CONTRACT.

GENERAL CONTRACTOR SHALL HAVE COMPLETE MECHANICAL AND ELECTRICAL DRAWINGS COMPLETED AND SUBMITTED TO LOCAL AUTHORITIES FOR REQUIRED PERMITS APPROVALS BEFORE WORK IS AS REQUIRED BY THE GOVERNING JURISDICTION.

SIGNAGE, LETTERING AND EXTERIOR SIGNAGE SHALL BE FURNISHED AND INSTALLED BY TENANT.

CODE STUDY

SOURCES:
INTERNATIONAL BUILDING CODE 2012 EDITION
MINNESOTA STATE BUILDING CODE 2015 EDITION
ICC/ANSI STANDARDS A117.1-2003 EDITION
MINNESOTA STATE FIRE CODE 2015 EDITION

OCCUPANCY CLASSIFICATION:
GROUP A-2 - ASSEMBLY (BREAK ROOM)
GROUP A-3 - ASSEMBLY (TRAINING ROOM AND LOUNGE)
GROUP B - BUSINESS (GENERAL OFFICE AREA)
GROUP F-1 - FACTORY (GENERAL PRODUCTION AREA)
GROUP S-1 - STORAGE (WAREHOUSE AND PARTS)

HEIGHTS AND AREAS:
BUILDING HAS BEEN SPLIT INTO TWO AREAS. THE FIRST, BUILDING A, IS THE MAIN BODY OF THE BUILDING AND THE SECOND, BUILDING B, IS THE TWO STORY PORTION OF THE BUILDING. THE TWO PARTS ARE SPLIT WITH A TWO HOUR SEPARATION.

BUILDING A: TYPE IIB CONSTRUCTION - B OCCUPANCY
ALLOWABLE SQUARE FOOTAGE FROM TABLE 503 IS 23,000 SF.
USING ALLOWABLE AREA INCREASES FOR SEPARATION THREE SIDES (1°=63) (11,025 SF) AND AREA INCREASE FOR SPRINKLER AT 200% (69,000 SF) WOULD CREATE AN ALLOWABLE SQUARE FOOTAGE OF 103,298 SF.
BUILDING A = 102,721 SF.

BUILDING B: TYPE IIB CONSTRUCTION - S-1 OCCUPANCY
ALLOWABLE SQUARE FOOTAGE FROM TABLE 503 IS 17,500 SF.
USING ALLOWABLE AREA INCREASES FOR SEPARATION THREE SIDES (1°=63) (11,025 SF) AND AREA INCREASE FOR SPRINKLER AT 200% (35,000 SF) WOULD CREATE AN ALLOWABLE SQUARE FOOTAGE OF 63,525 SF.
BUILDING B = 18,104 SF.

REQUIRED SEPARATION OF OCCUPANCIES: TABLE 508.4
GROUP A-2 IS REQUIRED TO BE SEPARATED BY 1 HOUR IN A SPRINKLED BUILDING FROM THE ADJACENT GROUP B. THIS SEPARATION EXISTS PRIOR TO THE REMODELING AND WILL NOT BE CHANGED IN THE REMODELING.
GROUP A-3 IS SEPARATED BY 1 HOUR FIRE BARRIER IN A SPRINKLED BUILDING FROM THE ADJACENT GROUP B.

OCCUPANT LOAD CALCULATION: (TABLE 004.2)

GROUP A-2 - ASSEMBLY - 15 SF / OCC.	5030 SF DIVIDED BY 15 = 335 OCCUPANTS	
GROUP A-3 - ASSEMBLY - 15 SF / OCC.	4351 SF DIVIDED BY 15 = 290 OCCUPANTS	
GROUP B - BUSINESS - 100 SF/OCC.	44,532 SF DIVIDED BY 100 = 445 OCCUPANTS	
GROUP F-1 - FACTORY - 100 SF/OCC.	38,014 SF DIVIDED BY 100 = 381 OCCUPANTS	
GROUP S-1 - STORAGE - 300 SF/OCC.	1756 SF DIVIDED BY 300 = 6 OCCUPANTS - BUILDING A	
GROUP S-1 - STORAGE - 300 SF/OCC.	14,520 SF DIVIDED BY 300 = 30 OCCUPANTS - BUILDING B	

EGRESS WIDTH: (SECTION 1005)
WITH SPRINKLED BUILDING FACTOR IS 0.5" /OCC.
TOTAL OCCUPANT LOAD IS 491 OCC. X 0.3" = 224.55"
PROVIDED 336" OF EGRESS

COMMON PATH OF TRAVEL: (TABLE 1014.3)
COMMON PATH OF TRAVEL IS 100 FT WITH EXCEPTION 1 IN PARAGRAPH 1014.3. THERE IS NO PORTION OF BUILDING WHERE COMMON PATH OF TRAVEL IS GREATER THAN 100 FT.

EXIT AND EXIT ACCESS DOORWAYS: (TABLE 1015.1)
GROUP A-2 - ASSEMBLY - 335 OCCUPANTS - OVER 49 OCCUPANTS REQUIRES 2 EXITS - 2 EXITS PROVIDED
GROUP A-3 - ASSEMBLY - 290 OCCUPANTS - OVER 49 OCCUPANTS REQUIRES 2 EXITS - 2 EXITS PROVIDED
GROUP B - BUSINESS - 445 OCCUPANTS - OVER 49 OCCUPANTS REQUIRES 2 EXITS - 4 EXITS PROVIDED
GROUP F-1 - FACTORY - 368 OCCUPANTS - OVER 49 OCCUPANTS REQUIRES 2 EXITS - 4 EXITS PROVIDED
GROUP S-1 - STORAGE - 16 OCCUPANTS - OVER 29 OCCUPANTS REQUIRES 2 EXITS - 2 EXITS PROVIDED - BUILDING A
GROUP S-1 - STORAGE - 33 OCCUPANTS - OVER 29 OCCUPANTS REQUIRES 2 EXITS - 2 EXITS PROVIDED - BUILDING B

EXIT ACCESS TRAVEL DISTANCE: (TABLE 1016.2)
GROUP B - TRAVEL DISTANCE IS 300 FT
GROUPS A-2 AND B - TRAVEL DISTANCE IS 250 FT
THERE IS NO AREA WITHIN THE GROUPS ABOVE THAT HAVE A TRAVEL DISTANCE LONGER THAN ALLOWED UNDER THE CODE. THIS IS BECAUSE THE PLACEMENT OF EXIT DOORS IS SUCH THAT THE DISTANCE TO THE EXIT IS LESS THAN ALLOWED.

TOILET FIXTURE REQUIREMENT

PLUMBING FIXTURES:	GOVERNING CODE:
PROVIDED BY ACCORDING TO TABLE 2902.1	2015 MN STATE BLDG CODE CHAPTER 29 - Plumbing Systems

GROUP	MEN'S CLOSET	WOMEN'S CLOSET	LAVATORIES	FOUNTAINS	SERVICE SINK
GROUP A-2	1/75	1/75	1/200	1/500	1
GROUP A-3	1/25	1/65	1/200	1/500	1
GROUP B	1/25 TO 50, 1/50	1/40 TO 80, 1/80	1/100		1
GROUP F-1	1/100	1/100	1/100	1/400	1
GROUP S-1	1/100	1/100	1/100	1/1000	1

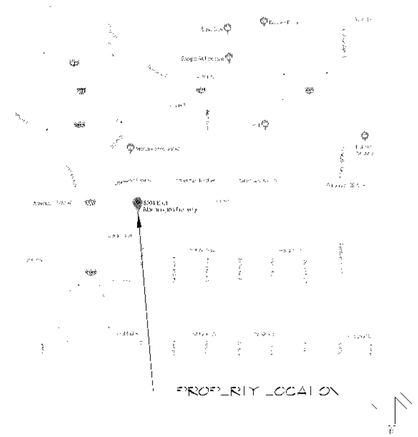
GROUP	OCC	WATER CLOSET MEN	WATER CLOSET WOMEN	LAVATORIES	FOUNTAINS	SERVICE SINK
GROUP A-2	335	4.47	4.47	1.68	0.67	1
GROUP A-3	290	1.16	2.23	1.45	1.45	1
GROUP B	445	5.46	5.46	6.56	4.45	1
GROUP F-1	381	1.91	1.91	3.81	0.95	1
GROUP S-1	46	0.23	0.23	0.46	0.05	1
TOTAL REQ'D.		3.23	14.30	13.96	7.54	1
TOTAL PROVIDED		34	26	44	6	3

ENERGY CODE

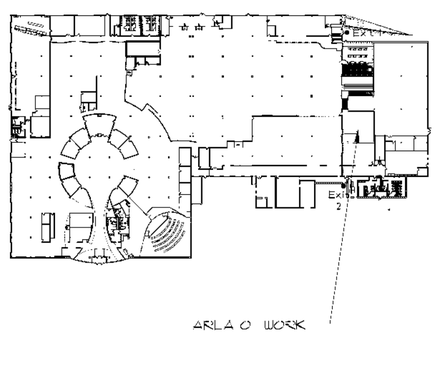
2015 MINNESOTA COMMERCIAL ENERGY CODE

PARAGRAPH 1323.0100 - ADMINISTRATION FOR COMMERCIAL ENERGY CODE - SUBPARAGRAPH 3 - ADDITIONS, ALTERATIONS, RENOVATIONS, OR REPAIRS - EXCEPTIONS: THE FOLLOWING CONDITIONS ARE NOT REQUIRED TO COMPLY WITH THIS CODE IF THE ENERGY USE OF THE BUILDING IS NOT INCREASED.
EXCEPTION 1° - ALTERATIONS THAT REPLACE LESS THAN 50% OF THE LUMINAIRES IN A SPACE, PROVIDED THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER. SEE SHEET A2 FOR CALCULATIONS.

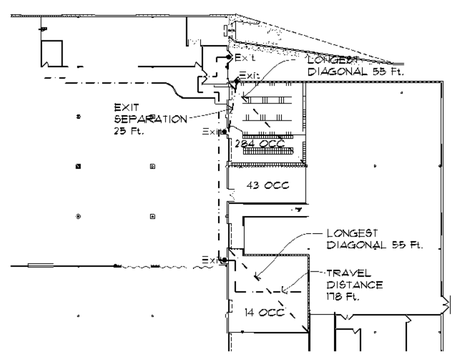
LOCATION MAP



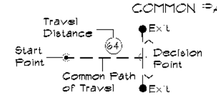
LOCATION PLAN



EXIT PLAN



COMMON PATH OF TRAVEL KEY



Common Path of Travel:
No Greater Than 75'(not sprinkled)

Exit Access Travel Distance:
No Greater Than 250'

Winther • Johnson • Robinson
Architects • Designers

8175-B Lewis Road
Golden Valley, Minnesota 55427
Phone: 763 398 0152
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.

ROBERT ROBINSON
Date: 04-12-18 Reg. No.: 19466

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

Issues & Revisions:
Origination Date: 04-10-18

Sheet Title:
TITLE SHEET
CODE REVIEW

Location:
8001 Bloomington Freeway
Bloomington, MN 55420

Project No.: 17-179.01B
Scale: As Noted
Drawn By: RWC, KNL
Approved: RFR

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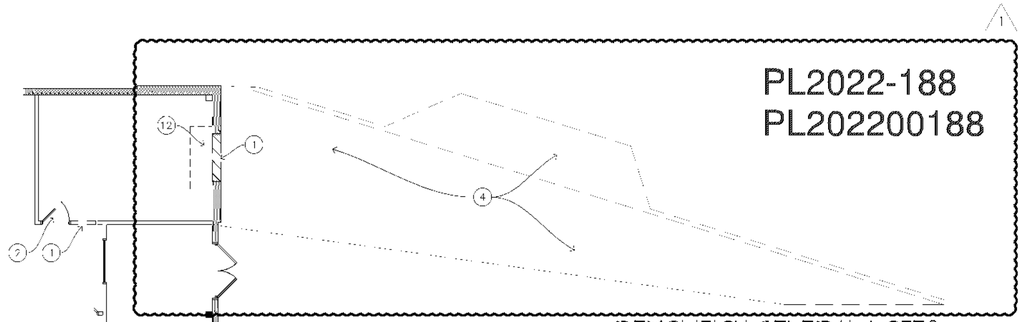
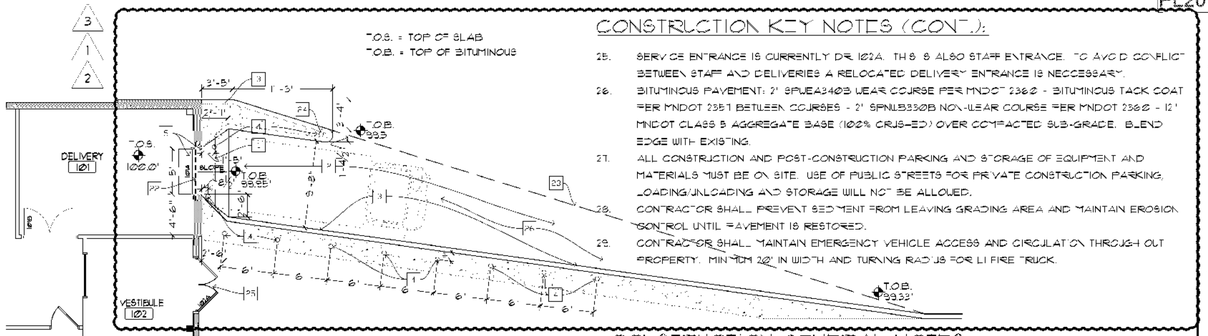




DEMOLITION GENERAL NOTES:

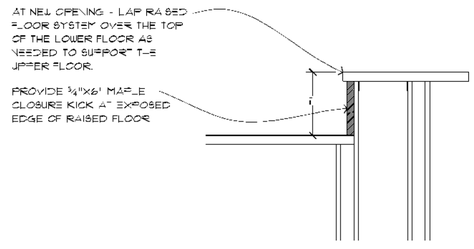
A. THE INTENT OF THIS DEMOLITION PLAN IS TO REMOVE ITEMS NOT USED IN THE FINISHED PROJECT. WORK SHALL BE DONE SUCH THAT THE NEW IS NOT DISTURBED FROM THE EXISTING.

DEMOLITION KEY NOTES: (1)

1. REMOVE WALL FOR NEW DOOR OPENING AND INSTALLATION OF NEW LINTEL AS REQUIRED IN CMU WALL.
2. REMOVE DOOR AND DOOR ASSEMBLY.
3. REMOVE WALL TO 1" BELOW CEILING. CREATE HEADER TO FINISH AT 1" BELOW CEILING. CEILINGS ARE AT TWO SEPARATE LEVELS. FINISH BOTTOM OF OPENING AT UNDERSIDE OF UPPER FLOOR LEVEL.
4. REMOVE CURB AND RAISED CONCRETE WALK IN NEW TRUCK LOADING AREA.
5. REMOVE LIGHTS AS NECESSARY FOR EITHER NEW LIGHT CONFIGURATION OR FOR OTHER WORK IN THE CEILING. SALVAGE FOR REUSE THIS PROJECT.
6. REMOVE 4 LOCKERS THIS END OF BANK. SALVAGE FOR REUSE THIS PROJECT.
7. REMOVE 4 LOCKERS THIS AREA. SALVAGE FOR REUSE THIS PROJECT.
8. REMOVE RAIL IN THIS AREA. REPAIR HOLES IN CONCRETE WHERE ANCHORS WERE USED. MAINTAIN RAIL POST FOR SECURING CHAIN ACROSS OPENING.
9. REMOVE 6 LOCKERS THIS END OF BANK. SALVAGE FOR REUSE THIS PROJECT.
10. OWNER WILL REMOVE ALL RACKING IN THIS AREA PRIOR TO CONSTRUCTION.
11. REMOVE ALL LIGHTING IN THIS ROOM. SALVAGE LIGHTS FOR FUTURE USE. VERIFY WITH OWNER LOCATION OF SALVAGE.
12. REMOVE CEILING IN THIS AREA FOR NEW ROLLING FIRE DOOR HOUSING.
13. REMOVE ENOUGH OF JAMB TO ALLOW NEW RAISED FLOOR TO RUN OVER WALL TO CONNECT NEW AND OLD RAISED FLOOR.
14. REMOVE 7 LOCKERS THIS END OF THE BANK OF LOCKERS. SALVAGE FOR REUSE THIS PROJECT.
15. REMOVE ALL DUCTWORK AND HVAC EQUIPMENT WHICH IS ABANDONED WITH NEW CONFIGURATION OF HVAC SYSTEM.
16. RAISE FIRE SPRINKLER LINES ABOVE NEW CEILING SYSTEM. PROVIDE DROPS AS NECESSARY FOR NEW ROOM LAYOUT.

FINISHES GENERAL NOTES:

A. FINISHES IN THE CONSTRUCTION AREA SHALL MATCH THAT USED THROUGHOUT THE PRODUCTION AREA. WALLS SHALL RECEIVE 3 COATS OF PAINT (PRIMER PLUS TWO FINISH COATS). ALL METALS (DOOR FRAMES, ROLLING SHUTTERS) SHALL BE SPRAY PAINTED. CARPET AND CARPET BASE SHALL MATCH THAT USED IN PRODUCTION. CEILINGS SHALL BE 2X2 LAY-IN AND MATCH THAT USED IN PRODUCTION. LIGHTING SHALL BE AS NOTED ELSEWHERE LED OR EXISTING MODIFIED TO ACCOMMODATE LED LAMPS.



CONSTRUCTION KEY NOTES (CONT.):

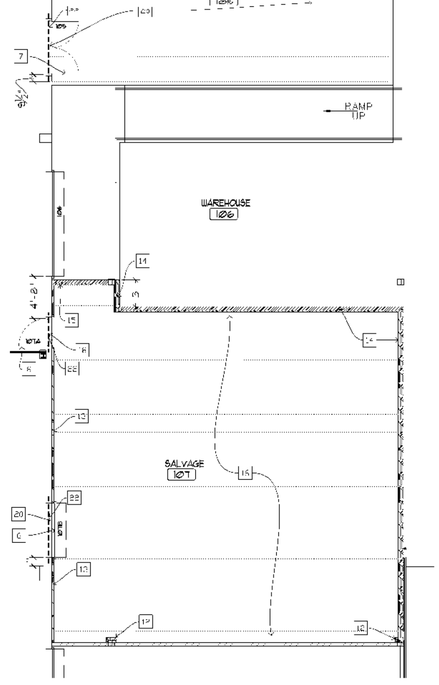
25. SERVICE ENTRANCE IS CURRENTLY DR 162A. THIS IS ALSO STAFF ENTRANCE. TO AVOID CONFLICT BETWEEN STAFF AND DELIVERIES A RELOCATED DELIVERY ENTRANCE IS NECESSARY.
26. BITUMINOUS PAVEMENT: 2" SPWEA240B WEAR COURSE PER MNDOT 2360 - BITUMINOUS TACK COAT PER MNDOT 2357 BETWEEN COURSES - 2" SPNLB330B NON-WEAR COURSE PER MNDOT 2360 - 12" MNDOT CLASS 5 AGGREGATE BASE (100% CRUSHED) OVER COMPACTED SUB-GRADE. BLEND EDGE WITH EXISTING.
27. ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING AND STORAGE OF EQUIPMENT AND MATERIALS MUST BE ON SITE. USE OF PUBLIC STREETS FOR PRIVATE CONSTRUCTION PARKING, LOADING/UNLOADING AND STORAGE WILL NOT BE ALLOWED.
28. CONTRACTOR SHALL PREVENT SEDIMENT FROM LEAVING GRADING AREA AND MAINTAIN EROSION CONTROL UNTIL PAVEMENT IS RESTORED.
29. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AND CIRCULATION THROUGH OUT PROPERTY. MINIMUM 20' IN WIDTH AND TURNING RADIUS FOR LFD FIRE TRUCK.

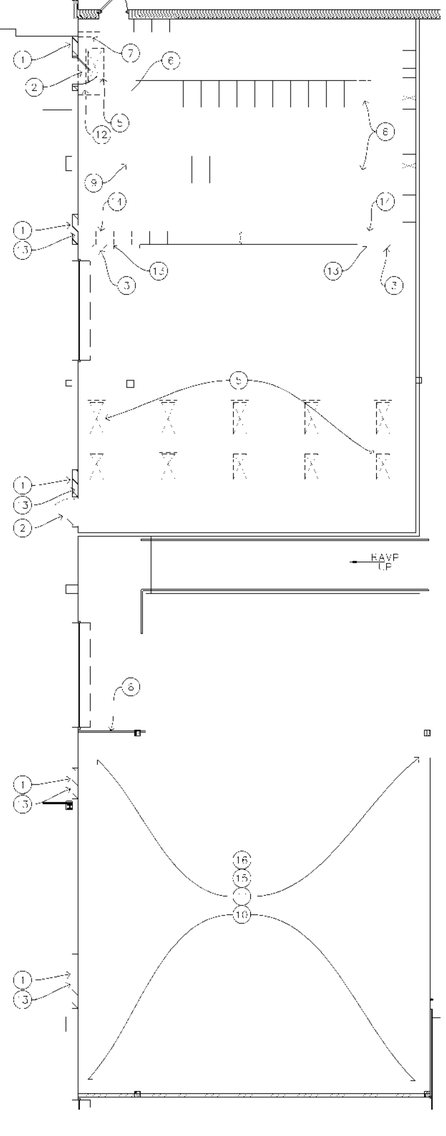
CONSTRUCTION GENERAL NOTES:

A. THE INTENT OF THIS CONSTRUCTION IS TO PROVIDE A NEW SERVICE ENTRANCE FOR DELIVERIES, TO PROVIDE AN EXPANDED LOCKER FACILITY, TO PROVIDE A NEW TRAINING ROOM FOR THE PURPOSES OF HANDS-ON TRAINING OF NEW EMPLOYEES OF PRODUCTION TECHNICS. PRODUCTION WORKTABLES WILL BE PROVIDED BY OWNER FOR THIS SPACE. THE FINAL ROOM IS THE SALVAGE ROOM WHICH IS BEING REMOVED FROM A WAREHOUSE FUNCTION. A RAISED FLOOR IS TO BE PLACED IN THE ROOM LEVEL WITH THE PRODUCTION FLOOR, DESKS PROVIDED BY OWNER.

CONSTRUCTION KEY NOTES: (1)

1. NEW 6" THICK CURB AND RAMP TO OVERHEAD DOOR. SLOPE RAMP FROM NEW ASPHALT TO THRESHOLD OF OVERHEAD DOOR INSIDE OF WALL. CONCRETE LEAD EDGE AT ASPHALT CONNECTION SHALL BE 18" DEEP X 28" THICK.
2. NEW ASPHALT ON 6" CLASS 5 CRUSHED GRAVEL. FLUSH WITH EXISTING ASPHALT. PROVIDE POSITIVE SLOPE TO EXISTING ASPHALT.
3. NEW 8 6/12 CURB. TIE INTO EXISTING CURB AT EAST SIDE. PROVIDE 4" THICK FLAT WORK ON 6" CLASS 5 CRUSHED GRAVEL TO THE NEW OPENING WITH EXISTING SIDEWALK.
4. 6" STEEL BOLLARD - 4' TALL, FILLED WITH CONCRETE AND CAPPED WITH BULB OF CONCRETE. BOLLARDS SHALL BE SET IN 4" CONCRETE SONO TUBE FTN TO 6'0" BELOW GRADE. PLACE BOLLARDS AT 6'-0" O.C.
5. 8'-0" X 8'-0" X 3" INSULATED OVERHEAD DOOR. DOOR TO HAVE JACK SHAFT OPENER AND FULL VERTICAL LIFT TRACK CONFIGURATION. PLACE CONTROL BUTTON ON INSIDE OF DOOR AS DIRECTED BY OWNER. PROVIDE DOOR SEAL AT BOTTOM OF DOOR AND WEATHER STRIP AT JAMB AND HEAD OF DOOR. USE END BLOCK AT SIDES OF NEW DOOR OPENING. PROVIDE 6" X 6" X 1/4 ANGLE WITH ANCHOR BOLTS INTO GROUT JOINT AT 16" OC TO A HEIGHT OF 4' AT EACH SIDE OF DOOR OPENING.
6. 8'-0" X 8'-0" 3 HR RATED ROLLING DOOR BY CORNELL. INSTALL FUSIBLE LINK CONNECTED TO FIRE ALARM SYSTEM. DOOR SHALL BE PAINTED TO MATCH EXISTING IN AREA.
7. 3'-0" X 7'-0" 3 HR RATED DOOR SYSTEM WITH CLOSER, COORDINATOR, ASTRAGAL, 1 1/2 PAIR BALL BEARING HINGES EACH DOOR, LEVER PASSAGE HANDLES AND THROUGH BOLT AT BOTTOM OF DOOR ON INACTIVE LEAF. DOOR SHALL MATCH MAPLE DOORS USED THROUGHOUT BUILDING.
8. 3'-0" X 7'-0" DOOR SYSTEM WITH CLOSER, LEVER PASSAGE SET, 1 1/2 PAIR HINGES PER DOOR. DOOR SHALL MATCH MAPLE DOORS USED THROUGHOUT BUILDING.
9. SEE DETAIL 2/A1 FOR FLOOR TRANSITION.
10. LOCKERS IN THIS ROOM ARE EXISTING AND REMAIN UNLESS NOTED OTHERWISE. WHERE LOCKERS HAVE BEEN REMOVED FROM ROW, PROVIDE FINISHED END PANEL TO MATCH LOCKER SERIES.
11. NEW WALL 6" STUD AT 24" O.C. WITH 5/8" GYP. BD. BOTH SIDES. FILL CAVITY WITH ACOUSTICAL INSULATION. WALL TO RUN FROM TOP OF RAISED FLOOR TO UNDERSIDE OF GYP. SOFFIT. ALIGN JAMB SO NORTH GYP. BD. SLIDES IN FRONT OF STEEL COLUMN - NON RATED JAMB.
12. FURR OUT COLUMN WITH 2 1/2" STL STUD WIT 5/8 GYP. BD.
13. FURR OUT CMU WALL WITH 2½" STL STUD AT 24" O.C. WITH 5/8" GYP. BD. WALL TO RUN FROM TOP OF RAISED FLOOR TO UNDERSIDE OF SOFFIT OR 6" ABOVE CEILING SYSTEM.
14. NEW WALL - 6" STL STUD AT 16" O.C. WITH 5/8" GYP. BD. EACH SIDE. JAMB FROM WAREHOUSE FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE. PROVIDE SLIP TRACK AT TOP TRACK. FILL CAVITY WITH ACOUSTICAL BATT INSULATION - NON RATED JAMB.
15. SET BOTTOM PLATE OF WALL AT TOP OF DOCK PLATFORM - ALIGN SOUTH FACE OF STUD AT PLATFORM.
16. PROVIDE NEW RAISED FLOOR TO MATCH EXISTING THIS SITE. USE ELEVATED SUPPORTS TO ALIGN FLOOR LEVEL WITH PRODUCTION FLOOR. RUN FLOOR INTO DOOR OPENINGS TO COMPLETE FLOOR SYSTEM.
17. ALIGN JAMB SUCH THAT THE NORTH GYP. BD. RUNS IN FRONT OF COLUMN. FURR OUT COLUMN ON SOUTH SIDE OF JAMB.
18. RUN RAISED FLOOR INTO DOOR OPENING.
19. PROVIDE LOCKABLE DOUBLE HIGH 12" X 18" LOCKERS TO MATCH EXISTING. REUSE THOSE SALVAGED FROM DEMOLITION THIS PROJECT AS ABLE. PROVIDE NECESSARY TOP AND CORNER ENCLOSURES, AS WELL AS APPROPRIATE END PANELS FOR ALL EXPOSED ENDS. WHERE LOCKERS HAD BEEN REMOVED IN THE ORIGINAL LOCKER ROOM, PROVIDE END PANELS FOR AREAS AS WELL AS THE NEW LOCKER ROOM.
20. EXISTING RAISED FLOOR. ONLY MODIFICATION ON THIS FLOOR OCCURS AT THE DOOR OPENINGS AND TRANSITION BETWEEN NEW AND OLD LOCKER ROOMS.
21. 3'-0" X 7'-0" 3 HR RATED DOOR SYSTEM WITH CLOSER, LEVER PASSAGE SET, 1 1/2 PAIR HINGES PER DOOR. DOOR SHALL MATCH MAPLE DOORS USED THROUGHOUT BUILDING.
22. WBXIB LINTEL - LINTEL BOTTOM TO (VERIFY WALL DIM): 6" CMU - NA 8" CMU - TWO 4 X 4 X ¼ X CONT., 10" CMU - TWO 4 X 4 X ¼ X 9" X CONT., 12" CMU - TWO 4 X 4 X ¼ X 11" X CONT. BRG TWO ½"X8"X0'-8" WITH 2-2½"X4" STUDS GROUT 2 CORES SOLID TO TOP OF FOOTING ELEVATION.
23. PAINT 6" SOLID YELLOW LINE FROM PENISULA TO SIDEWALK. LINE TO FOLLOW DASHED LINE SHOWN ON DRAWING.
24. PROVIDE SIGN WHICH SAYS "NO PARKING WITHIN DRIVEABLE" SIGN TO BE POLE MOUNTED WITH BOTTOM OF SIGN AT 60" ABOVE CURB. MOUNT SIGN WITH IN BOLLARD.





1/A1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

NORTH

2/A1 RAISED FLOOR DETAIL
SCALE: 1 1/2" = 1'-0"

3/A1 CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

NORTH

Winther • Johnson • Robinson
Architects • Designers

8175-B Lewis Road
Golden Valley, Minnesota 55427
Phone: 763 398 0152
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.

SCOTT ROBINSON

Date: 04 10 18 Reg. No. 19466

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

CITY COMMENTS	05 15 18
DELIVERY DRIVE	05 23 18
DELIVERY DRIVE	05 10 18
Issues & Revisions	
Origination Date:	04-10-18

Sheet Title:
DEMOLITION & CONSTRUCTION PLANS

Location:
8001 Bloomington Freeway
Bloomington, MN 55420

Project No.:	17-179.01B
Scale:	As Noted
Drawn By:	RWC, KNL
Approved:	RFR

A1

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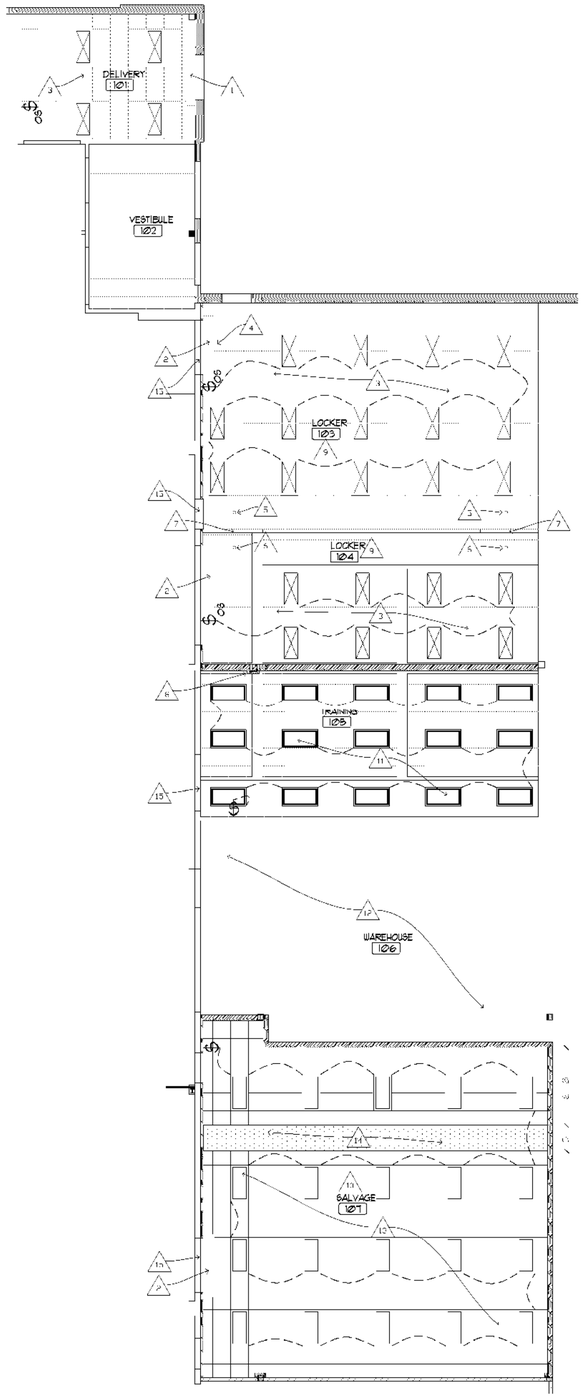
PL2018-199 PL201800199

PL2022-188
PL202200188



1 A2 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

REFLECTED CEILING GENERAL NOTES:

A. EXISTING LAY-IN CEILING SHALL REMAIN UNCHANGED UNLESS NOTED OTHERWISE.

B. NEW LAY-IN CEILING TILE MATCH 2'X2' CEILING USED THROUGHOUT PRODUCTION AREA.

C. NEW LIGHTS TO BE LED 2X4 FIXTURES BY LITHONIA (BLT4-46L-ADP-IT-EZI-LP835 (38.34 WATTS/FIXTURE)

D. EXISTING 2X4 FIXTURES REMOVE BALLAST AND PROVIDE DRIVERS AND LED TUBES FOR NEW FIXTURES

E. 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:

1. CREATE OPENING IN CEILING OF 12' X WIDTH OF DOOR PLUS 8" EACH WAY.
2. CREATE OPENING AROUND ROLLING GRILL HOUSING: ALLOW FOR ALL DOOR MECHANISMS.
3. RELOCATE NEW LIGHT TO ACCOMMODATE THE NEW LAYOUT.
4. REMOVE FIXTURE
5. CEILING MOUNTED OCCUPANCY SENSOR CONTROLLING ROOM 103 LIGHTS.
6. CEILING MOUNTED OCCUPANCY SENSOR CONTROLLING ROOM 104 LIGHTS.
7. SOFFIT TO BE 1' BELOW HIGHEST LAY-IN CEILING.
8. ALIGN FACE OF WALL WITH FACE OF SOFFIT.
9. PROVIDE EXHAUST AND AIR CHANGES PER MN MECHANICAL CODE FOR LOCKER ROOMS.
10. PROVIDE AIR EXCHANGES AND EXHAUST AS NECESSARY TO CONTROL BODY ODER THIS ROOM. VERIFY SOLUTION WITH OWNER PRIOR TO DESIGNING AIR EXCHANGES.
11. ROTATE EXISTING LIGHTS THIS ROOM TO CONFORM WITH NEW LAYOUT. WIRE TO NEW SWITCH.
12. NO WORK AT CEILING THIS AREA.
13. SET CEILING AS HIGH AS POSSIBLE TO CLEAR RAISED SPRINKLER LINES AND STRUCTURE. SHOULD BE BETWEEN 7'-12" AND 8'-0" AFF.
14. ⅝" GYP. BD. SOFFIT WITH BOTTOM OF SOFFIT 1' BELOW LAY-IN CEILING SYSTEM.
15. FINISH HEADER TO MATCH SURROUNDING FINISHES.

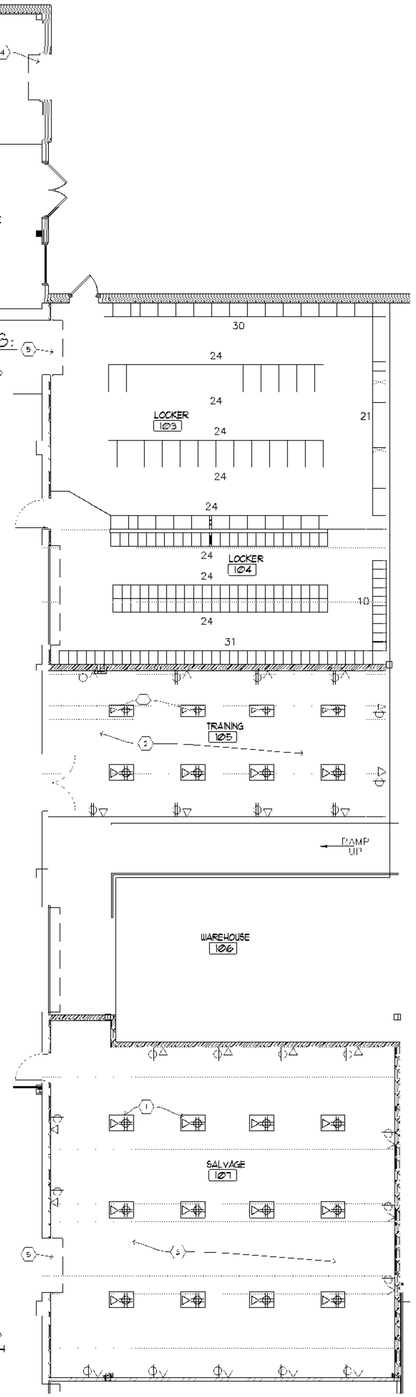
FIRE PROTECTION

A. ALL FIRE PROTECTION ENGINEERING SHALL BE PERFORMED BY LICENSED CONSULTANTS UNDER CONTRACT TO THE GENERAL CONTRACTOR.

B. SPRINKLER HEADS SHALL BE CENTERED IN SUSPENDED CEILING TILE U.N.O. COORDINATE LOCATIONS IN DECORATIVE CEILINGS AND IN LOCATIONS WHERE DECORATIVE FIXTURES ARE SCHEDULED WITH ARCHITECT.

C. SPRINKLER HEADS SHALL MATCH BUILDING STANDARD HEADS IN AREA OF CONSTRUCTION.

D. FLUSH COVERED HEADS SHALL BE INSTALLED IN GYPSUM BOARD SOFFITS.



2 A2 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL GENERAL NOTES

A. ALL MECHANICAL ENGINEERING SHALL BE PERFORMED BY MECHANICAL CONTRACTOR UNDER CONTRACT TO GENERAL CONTRACTOR.

B. G.C. SHALL COORDINATE ALL OTHER WORK WITH HVAC WORK AS REQUIRED.

C. PROVIDE/LOCATE/RELOCATE THERMOSTATS, FIRE ALARMS, STROBES, FIRE EXTINGUISH
D. ERS, ETC. AS REQUIRED BY LOCATION OF NEW PARTITIONS, CASEWORK AND TENANT'S FURNITURE.

E. COORDINATE WITH ARCHITECT TO DETERMINE LOCATION OF DEVICES AND CONTROLS.

F. ENGINEERING DRAWINGS SHALL DETERMINE ELECTRICAL/MECHANICAL SYSTEMS DESIGN. PROVIDE BAFFLED DAMPER OR TRANSFER PANELS AT ACOUSTIC PARTITIONS.

ELECTRICAL GENERAL NOTES:

A. ELECTRICAL SHALL BE AS SHOWN ON DRAWINGS. ELECTRICAL CONTRACTOR SHALL CIRCUIT RECEPTACLES AS NECESSARY TO MEET CODE AS WELL AS TO LIMIT RECEPTACLES ON CIRCUITS.

ELECTRICAL KEY NOTES:

1. COORDINATE FLOOR BOXES WITH OWNER.
2. 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.
3. PROVIDE 8 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.
4. PROVIDE POWER AS NECESSARY FOR JACK SHAFT OPENER.
5. PROVIDE POWER AS NECESSARY FOR ROLLING SHUTTER. CONNECT TO FIRE ALARM SYSTEM.

REFLECTED CEILING SYMBOLS LEGEND

LAY-IN FIXTURES
2' X 2' 2' X 4'
Demo
Existing Location
New Location
New Fixture

CEILING SYSTEMS
SUSPENDED CEILING SYSTEMS:
GENERAL AREA (UNO) Match Existing
GYPSUM BOARD CEILING/SOFFITS

RECESSED FIXTURES
RECESSED DOWNLIGHT
RECESSED WALL WASH / ADJUSTABLE

GENERAL SYMBOLS
KEYED NOTE
ROOM NUMBER
EXHAUST FAN
CEILING SPEAKER
EXIT SIGN
EXIT SIGN WITH EMERGENCY LIGHTS
EMERGENCY LIGHTS
OCCUPANCY SENSOR - CEILING
VACANCY SENSOR - CEILING
SPRINKLER

SYMBOL INDICATORS
FIXTURE TYPE INDICATOR
SWITCH INDICATOR
SWITCH
FIXTURE CONTROLLED BY SWITCH
SWITCH TYPE
d DIMMER SWITCH
NL NIGHT LIGHT
EX EXISTING TO REMAIN
OS OCCUPANCY SENSOR
VS VACANCY SENSOR
3 3 WAY SWITCH
4 4 WAY SWITCH
FLOOR BOX

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 T8 LAMPS 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
2,560 WATTS / 3,609 S.F. = 0.71 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 CONVERTED TO LED	LED 18 WTS/LAMP	18 X 2 = 36 WTS / FIX	26	36 WTS X 26 FIX = 936 WATTS	
2	2' X 4' DIRECT/INDIRECT CONVERTED 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	LITHONIA (38.34 WATTS PER FIXTURE) 2BLT4-46L-ADP-977-EZ1-LP835
4	"	" "		"	TOTAL WATTS = 2,243 WATTS	

PROPOSED INTERIOR LIGHTING POWER TOTAL
2,243 WATTS / 3,609 S.F. = 0.62 WATTS PER S.F.

Winther • Johnson • Robinson
Architects • Designers
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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 registered architect under the laws of the State of Minnesota.

KEITH T. JOHNSON
Date: 6/12/18 Reg. No.: 19466

GN RESOUND - LOCKER TRAINING SALVAGE
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Issues & Revisions
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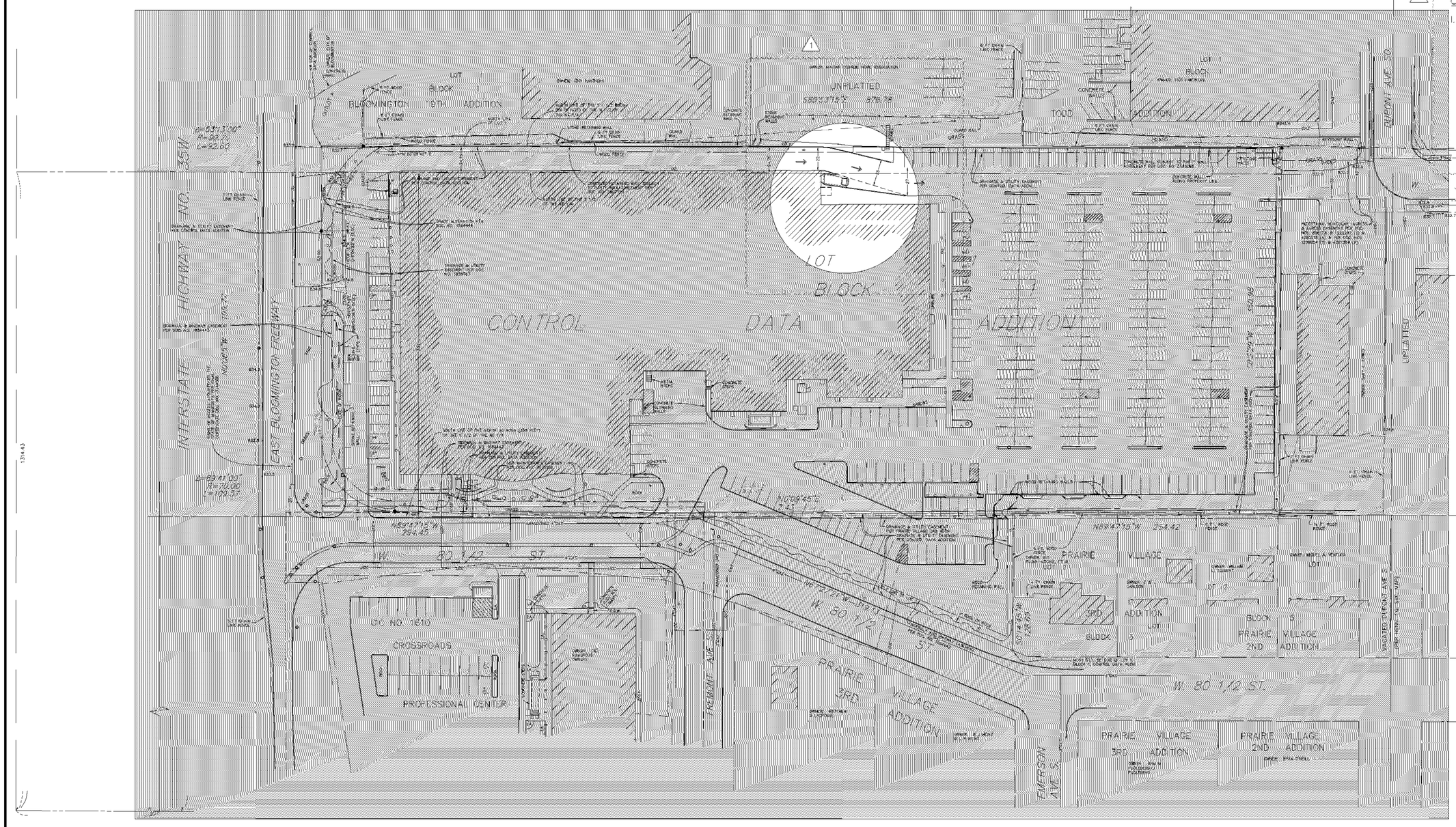
A2

PL2018-199 PL201800199



CONSTRUCTION KEY NOTES:

1. DELIVERY VEHICLES ARRIVE FROM WEST (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
BTC	Denotes top of bituminous curb
BTL	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
DG	Denotes drain grate
DIP	Denotes ductile iron pipe
FP	Denotes flagstone
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
PPLP	Denotes power and light pole
PPU	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
SMH	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
UGC	Denotes underground communications line
UGE	Denotes underground electric line
W	Denotes water line
WV	Denotes water valve
WWB	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
SPCG	Denotes Colorado Green Spruce tree
TR	Denotes deciduous tree
●	Denotes iron monument found, marked with RLS No. 8612, unless otherwise noted
●	Denotes iron monument set, marked with PLS No. 17256

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 plat 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. 898173, 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 plat of Prairie Village 3rd Addition)

Subject to drainage and utility easements as shown on plat;

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 plat 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 plat 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 plat of Prairie Village 3rd Addition)

NOTES

1.) 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.

2.) Contact GOPHER STATE ONE CALL at 651-454-0002 (800-252-1166) for precise onsite location of utilities prior to any excavation.

3.) 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.

4.) Property subject to a reservation of any minerals and mineral rights by the State of Minnesota.

5.) 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 plat of Prairie Village 3rd Addition)

6.) 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.

7.) Property subject to terms and conditions of that certain Variance filed February 2, 2001, as Document No. 3356770.

8.) 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.

9.) Area = 338,602 square feet or 7.773 acres

10.) 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.

11.) 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.

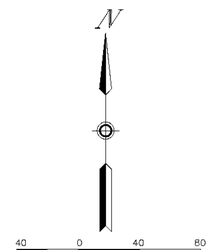
12.) Survey coordinate & bearing basis: Hennepin County coordinates

13.) 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

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



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

Revision	By	Date
Floor elevations	SMT	01/22/2009
Update	SMT	01/15/2009
Originally dated 5/01/1998		

Drawing Title:
BOUNDARY, LOCATION, TOPOGRAPHIC and UTILITY SURVEY FOR:
Bently Forbes - GRMN, LLC
8001 EAST BLOOMINGTON FREEWAY

SUNDE LAND SURVEYING
www.sunde.com
Main Office:
9001 East Bloomington Freeway (35W) • Suite 116
Bloomington, Minnesota 55420-2435
952-881-2455 (Fax 952-888-9526)
North Office:
Brooklyn Park, Minn. 763-784-9346

Project: 82-198-BF2 Bk/Pg: 749/28
Township: 27 Range: 24 Section: 4
File: 82198BF2001R.dwg
Date: 01/15/2009
Sheet: 1 of 1

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Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Lum. Lumens	Tag
	3	A	SINGLE	1.000	MCGRAW GLEON-AF-02-LED-E1-T4FT-BZ-WM WALL MOUNTED @ VARIOUS	113	12252	
	2	B	BACK-BACK	1.000	MCGRAW GLEON-AF-04-LED-E1-5MQ-SA-BZ ON 25FT POLE 3FT BASE	450	25224	
	1	B1	SINGLE	1.000	MCGRAW 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	MCGRAW GLEON-AF-06-LED-E1-5MQ-BZ ON 25FT POLE 3FT BASE	333	37400	
	1	E	SINGLE	1.000	MCGRAW GLEON-AF-03-LED-E1-SL4-BZ ON NEW 25FT POLE 3FT BASE	166	17268	
	1	F	BACK-BACK	1.000	MCGRAW GLEON-AF-04-LED-E1-T4FT-BZ ON 25FT POLE 3FT BASE	450	24156	
	1	G	SINGLE	1.000	MCGRAW GLEON-AF-06-LED-E1-T4FT-BZ ON EXISTING 25' POLE 3' BASE	333	35815	
	1	H	SINGLE	1.000	MCGRAW GLEON-AF-03-LED-E1-T3-WM-BZ @ 23FT	166	18176	
	1	I	BACK-BACK	1.000	MCGRAW GLEON-AF-02-LED-E1-5NQ-BZ ON NEW 25FT POLE 3FT BASE	226	12563	
	1	J	BACK-BACK	1.000	MCGRAW GLEON-AF-06-LED-E1-5WQ-BZ 25FT POLE 3FT BASE	666	37499	
	1	K	SINGLE	1.000	MCGRAW GLEON-AF-07-LED-E1-5WQ-BZ ON 25' POLE 3' BASE	391	44347	
	1	M	BACK-BACK	1.000	MCGRAW GLEON-AF-02-LED-E1-5MQ-BZ ON NEW 25FT POLE 3FT BASE	226	12794	
	1	N	SINGLE	1.000	MCGRAW 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

CITY OF BLOOMINGTON MINNESOTA

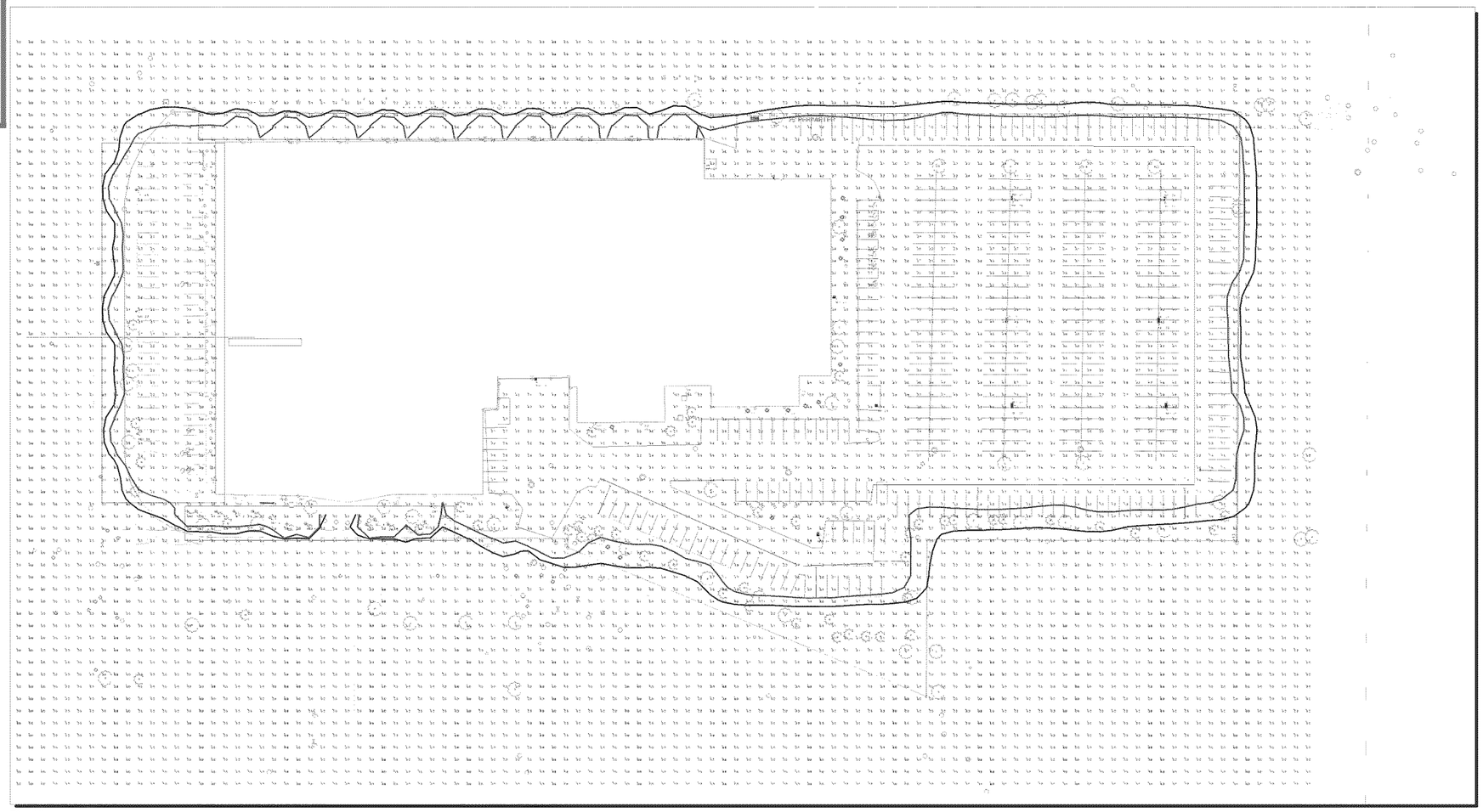
LIGHTING PLAN APPROVED

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

04/26/2017
lpease

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	Min	Avg/Min	Max/Min
SITE CALC	Illuminance	Fc	1.16	19.4	0.0	N.A.	N.A.
25' PERIMETER	Illuminance	Fc	1.83	4.0	0.7	2.61	5.71
DRIVE LANE N	Illuminance	Fc	1.75	6.5	0.4	4.38	16.25
INNER LOT	Illuminance	Fc	3.46	8.9	1.8	1.92	4.94



Plan View
Scale: 1 inch= 50 Ft.

REVIEWED BY -
SANDY ANDERSON, LC
APRIL 24, 2017

GENERAL NOTES:

A. PULSE PRODUCTS DOES NOT ASSUME RESPONSIBILITY FOR THE INTERPRETATION OF THIS CALCULATION OR COMPLAINCE TO THE LOCAL, STATE, OR FEDERAL LIGHTNG 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.

PULSE never ordinary

#	Date	Comments
Revisions		

Drawn By: JILL
Checked By: SANDY ANDERSON LC
Date:4/24/2017
Scale: AS NOTED

GN RESOUND INITIAL

BLOOMINGTON, MN

PAGE 1 OF 1

Approved Plan

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Lum. Lumens	Tag
	3	A	SINGLE	1.000	MCGRAW GLEON-AF-02-LED-E1-T4FT-BZ-WM WALL MOUNTED @ VARIOUS	113	12252	
	2	B	BACK-BACK	1.000	MCGRAW GLEON-AF-04-LED-E1-5MQ-SA-BZ ON 25FT POLE 3FT BASE	450	25224	
	1	B1	SINGLE	1.000	MCGRAW 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	MCGRAW GLEON-AF-06-LED-E1-5MQ-BZ ON 25FT POLE 3FT BASE	333	37400	
	1	E	SINGLE	1.000	MCGRAW GLEON-AF-03-LED-E1-SL4-BZ ON NEW 25FT POLE 3FT BASE	166	17268	
	1	F	BACK-BACK	1.000	MCGRAW GLEON-AF-04-LED-E1-T4FT-BZ ON 25FT POLE 3FT BASE	450	24156	
	1	G	SINGLE	1.000	MCGRAW GLEON-AF-06-LED-E1-T4FT-BZ ON EXISTING 25' POLE 3' BASE	333	35815	
	1	H	SINGLE	1.000	MCGRAW GLEON-AF-03-LED-E1-T3-WM-BZ @ 23FT	166	18176	
	1	I	BACK-BACK	1.000	MCGRAW GLEON-AF-02-LED-E1-5NQ-BZ ON NEW 25FT POLE 3FT BASE	226	12563	
	1	J	BACK-BACK	1.000	MCGRAW GLEON-AF-06-LED-E1-5WO-BZ 25FT POLE 3FT BASE	666	37499	
	1	K	SINGLE	1.000	MCGRAW GLEON-AF-07-LED-E1-5WO-BZ ON 25' POLE 3' BASE	391	44347	
	1	M	BACK-BACK	1.000	MCGRAW GLEON-AF-02-LED-E1-5MQ-BZ ON NEW 25FT POLE 3FT BASE	226	12794	
	1	N	SINGLE	1.000	MCGRAW 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

CITY OF BLOOMINGTON MINNESOTA

LIGHTING PLAN APPROVED

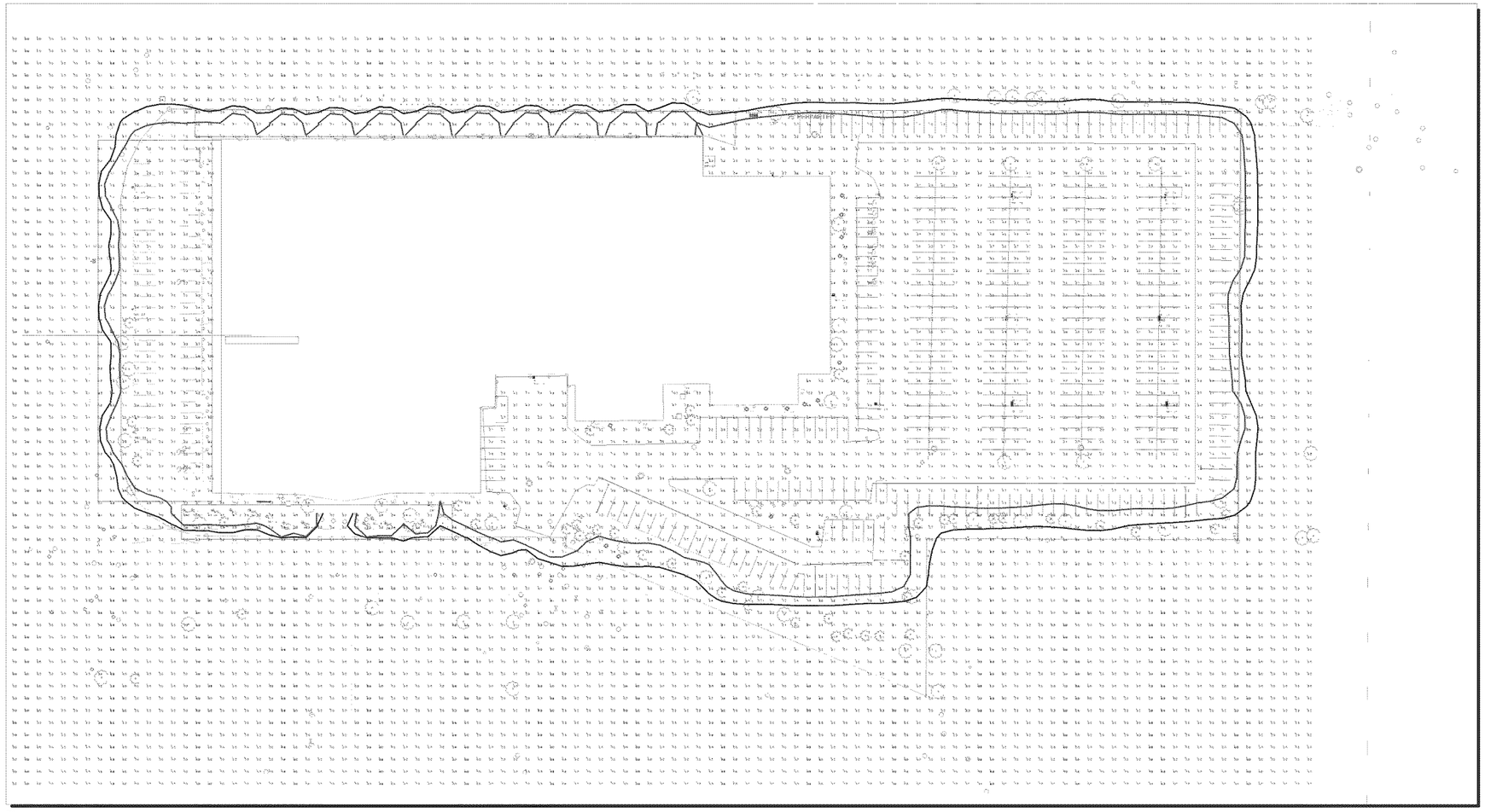
No changes in fixture or location without a revised plan review.

04/26/2017
lpease

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	Min	Avg/Min	Max/Min
SITE CALC	Illuminance	Fc	1.16	19.4	0.0	N.A.	N.A.
25' PERIMETER	Illuminance	Fc	1.83	4.0	0.7	2.61	5.71
DRIVE LANE N	Illuminance	Fc	1.75	6.5	0.4	4.38	16.25
INNER LOT	Illuminance	Fc	3.46	8.9	1.8	1.92	4.94



Plan View
Scale: 1 inch= 50 Ft.

GENERAL NOTES:

A. PULSE PRODUCTS DOES NOT ASSUME RESPONSIBILITY FOR THE INTERPRETATION OF THIS CALCULATION OR COMPLAINCE TO THE LOCAL, STATE, OR FEDERAL LIGHTNG 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.

REVIEWED BY -
SANDY ANDERSON, LC
APRIL 24, 2017

PULSE never ordinary

#	Date	Comments
		Revisions

Drawn By: JILL
Checked By: SANDY ANDERSON LC
Date:4/24/2017
Scale: AS NOTED

GN RESOUND INITIAL

BLOOMINGTON, MN

PAGE 1 OF 1

Approved Plan