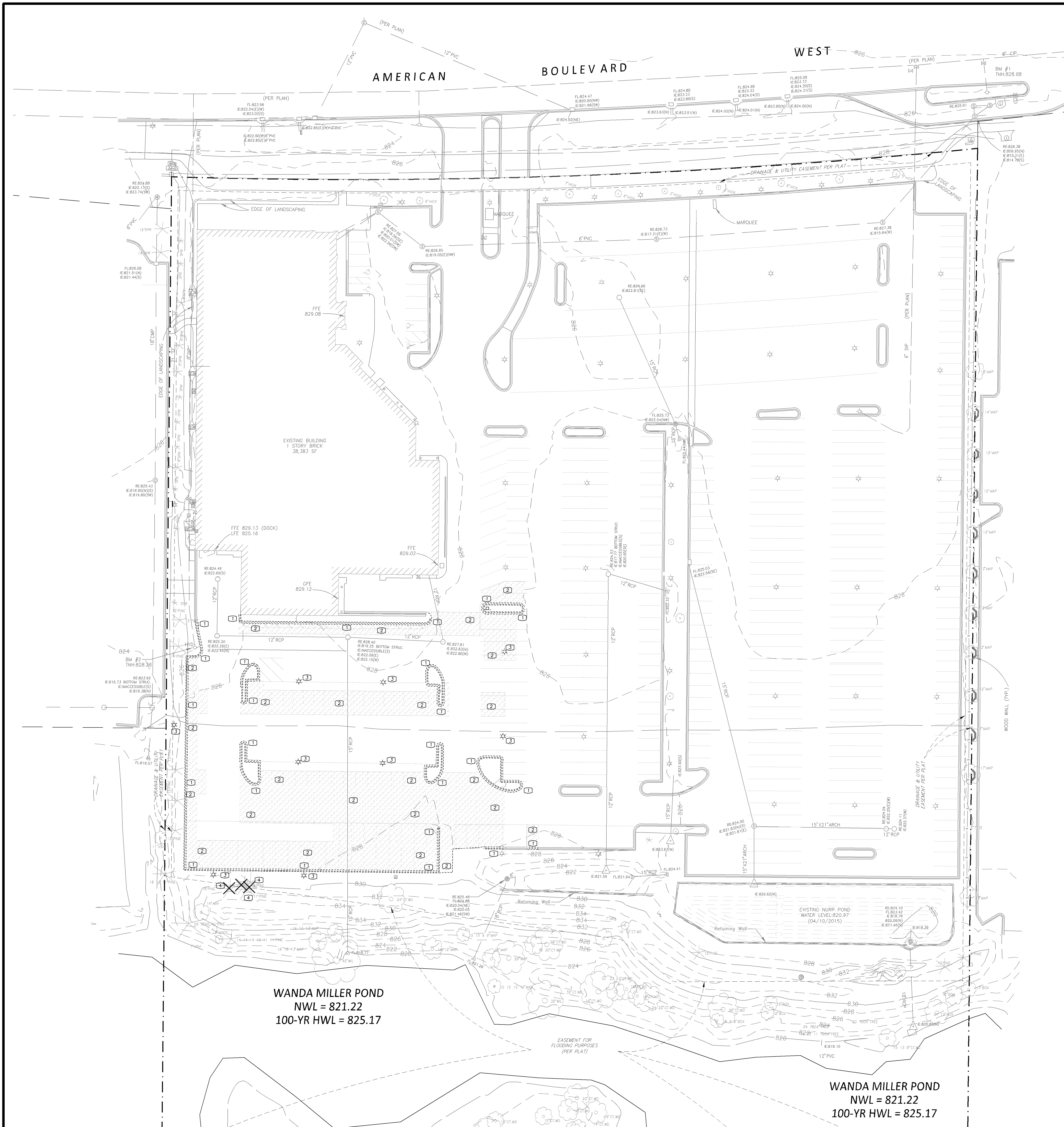


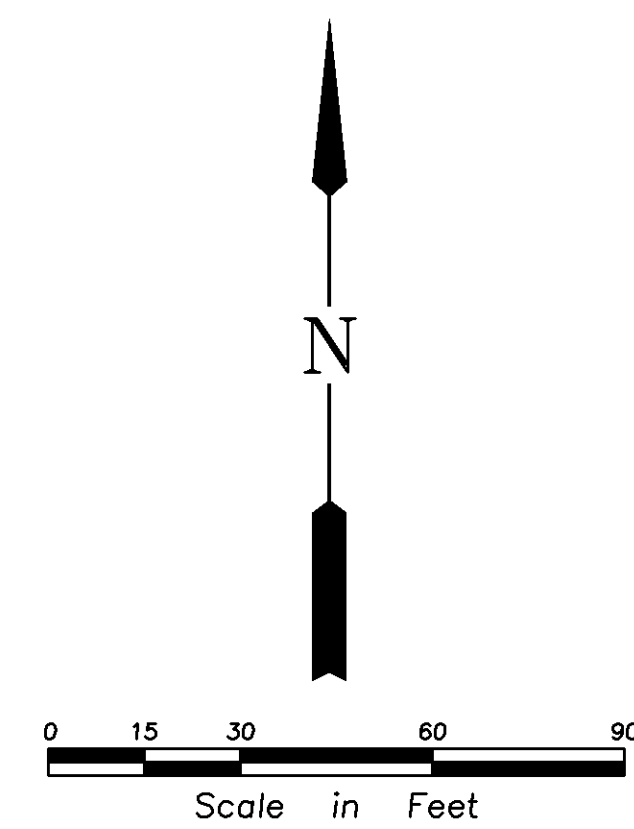


PL202000055
PL2020-55

- DEMOLITION NOTES
- 1 - Remove curb & gutter.
 - 2 - Remove bituminous pavement.
 - 3 - Remove light poles.
 - 4 - Remove tree.

NOTE: CONTRACTOR TO COORDINATE REMOVAL/ABANDONMENT AND RELOCATION OF EXISTING POWER POLES, OVERHEAD ELECTRIC LINES, BURIED ELECTRIC LINES, BURIED COMMUNICATION LINES AND BURIED GAS LINES WITH THE APPROPRIATE UTILITY COMPANY.

- LEGEND
- BOUNDARY/ROW/BLOCK LINE
 - [Hatched Box] EXISTING BITUMINOUS TO BE REMOVED
 - [Solid Box] EXISTING CONCRETE TO BE REMOVED
 - [Star Symbol] EXISTING TREE TO BE REMOVED



WANDA MILLER POND
NWL = 821.22
100-YR HWL = 825.17

WANDA MILLER POND
NWL = 821.22
100-YR HWL = 825.17

REHDER & ASSOCIATES INC.

14400 Federal Drive, Suite 110
Bloomington, IL 61814
Telephone 815-425-5051
www.rehder.com

PROJECT NO.: 201-2245-016 DRAWING FILE: 2245016.DWG

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Illinois.

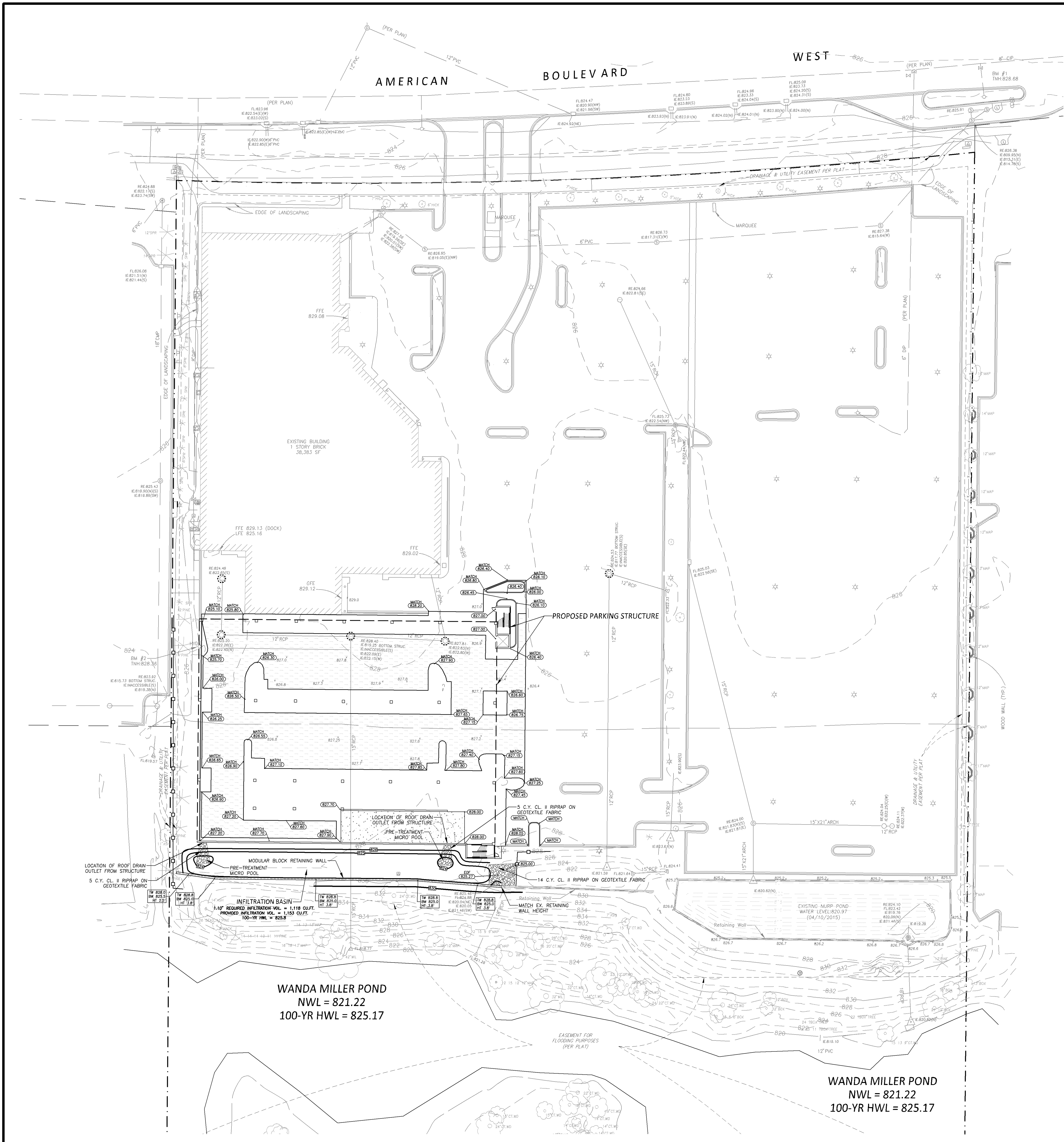
PRELIMINARY

Name _____ Date _____ Rep. No. _____

3-18-20	4-7-20
ISSUED	CITY AND WATERSHED SUBMITTAL
ADDRESS CITY COMMENTS	

SITE DEMOLITION PLAN
WALSER TOYOTA RAMP
CITY OF BLOOMINGTON

SHEET NUMBER
C0



CITY OF BLOOMINGTON STANDARD NOTES

1. NO PARKING ON PUBLIC STREETS AND RIGHT-OF-WAY, CIRCULATION DRIVES, OR FIRE LANES. PREPARE ON-SITE CONSTRUCTION MANAGEMENT SPACE FOR EMPLOYEE PARKING, MATERIALS, EQUIPMENT, FIELD SHACK, AND OTHER CONSTRUCTION RELATED ITEMS. ALL CONSTRUCTION RELATED LOADING, UNLOADING, AND STOCKPILING TO OCCUR ON-SITE AND OFF OF PUBLIC STREETS AND RIGHT-OF-WAY. Temporary street signs, lighting, and addresses shall be provided during construction.
2. Contractor shall obtain a Public Works Permit Application for obstructions and concrete work within the Right-of-Way. Permit is required prior to removals or installation. Contact Brian Hansen at 952-563-4543 or bhansen@ci.bloomington.mn.us for permit application and fee information.
3. Public Works permit application for underground work within the right-of-way is required prior to removal or installation of sanitary sewer, water or storm work within the public right-of-way. Contact Utilities at 952-563-4568 for permit application and fee information.
4. Use approved inlet protection at all active storm sewer inlets; no bales allowed for inlet protection and/or ditch checks.
5. Utility service additions/removals to be at the Developer's expense.
6. Designate all approved parking stalls with white 4" wide striping.
7. All public sidewalks shall not be obstructed.
8. Street lighting and interconnect conduit must be exposed for City inspection prior to pouring concrete or backfilling excavations in the City right-of-way.
9. Storage of materials or equipment shall not be allowed on public streets or within public right-of-way.
10. Restore City street by complying with the City Street Improvement Policy; contact Utilities (952-563-4568) for the requirements.
11. Temporary street signs, lighting, and addresses shall be provided during construction.

GRADING NOTES

- 1 All elevations shown are to final surfaces.

EROSION CONTROL NOTES

- 1 All erosion control measures shown shall be installed prior to grading operations and maintained until all areas disturbed have been restored.
- 2 Sweep paved public streets as necessary where construction sediment has been deposited.
- 3 Each area disturbed by construction shall be restored per the specifications within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 4 Temporary soil stockpiles must have silt fence around them and cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.
- 5 All pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
- 6 Excess concrete/water from concrete trucks shall be disposed of in portable washout concrete basin or disposed of in a contained area.

INSPECTION AND MAINTENANCE

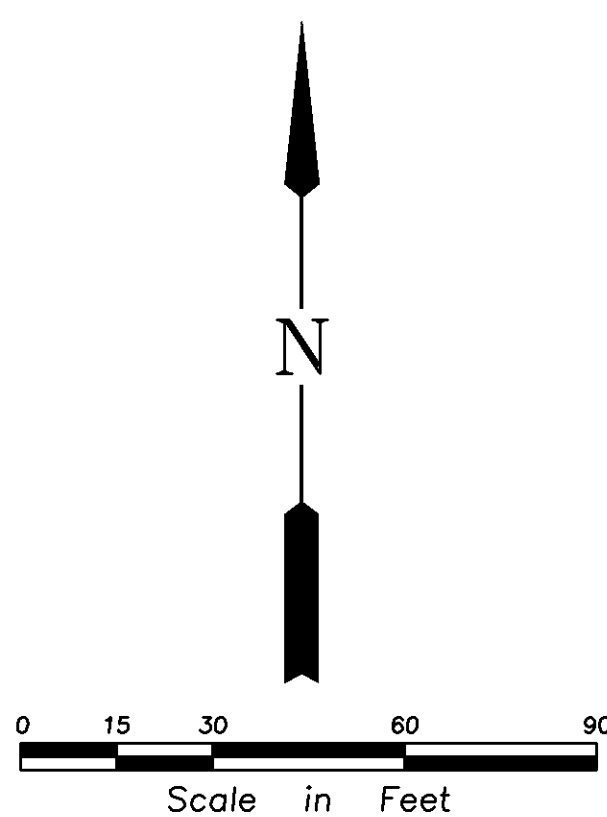
- The site must be inspected once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.
- Areas of the site that have undergone final stabilization, may have the inspection of these areas reduced to once per month.
- All silt fence must be repaired, replaced, or supplemented within 24 hours when they become nonfunctional or the sediment reaches 1/3 of the height of the fence.
- Surface waters and conveyance systems must be inspected for evidence of sediment being deposited. Removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints.
- Construction site vehicle exit locations must have sediment removed from off-site paved surfaces within 24 hours of discovery.
- Infiltration areas shall be graded to finished grade when all contributing drainage areas have been stabilized. Protect infiltration area from sediment and heavy equipment compaction during/after construction with silt fence.

INFILTRATION BASIN NOTES

- A. Grading and construction of the infiltration basin shall not begin until all construction in the contributing drainage area has been completed and the site is stabilized.
- B. Grading shall be done using low-impact earthmoving equipment to prevent compaction of underlying soils. Small tracked dozers and
- C. Excavate the infiltration basin to the specified depth. All sub-material below the specified elevation shall be left undisturbed.
- D. In the event that sediment is introduced into the infiltration basin following excavation, this material will need to be removed prior to finishing he construction process.
- E. Seeding shall be completed within 48 hours of grading.
- F. The site shall be free from all weeds and invasive plant species.

LEGEND

- PROPOSED CONCRETE
- PROPOSED STD. DUTY BITUMINOUS
- PROPOSED MILL & OVERLAY
- PROPOSED CONTOUR
- PROPOSED ELEVATION
- SILT FENCE
- INLET PROTECTION DEVICE
- BOUNDARY/ROW/BLOCK LINE
- EASEMENT



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GRADING, DRAINAGE, EROSION CONTROL & SWPPP PLAN
WALSER TOYOTA RAMP
CITY OF BLOOMINGTON

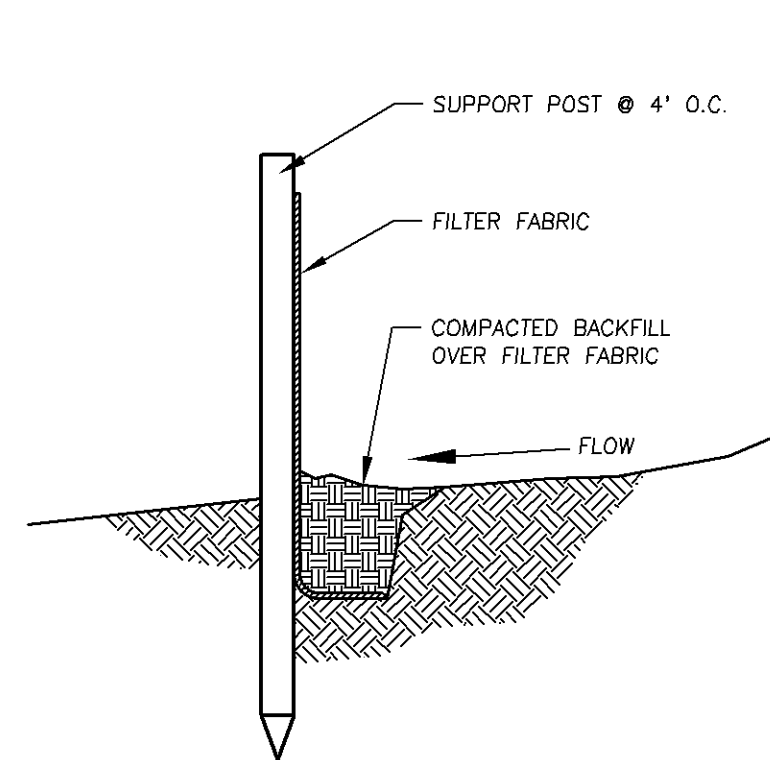
SHEET NUMBER

C2

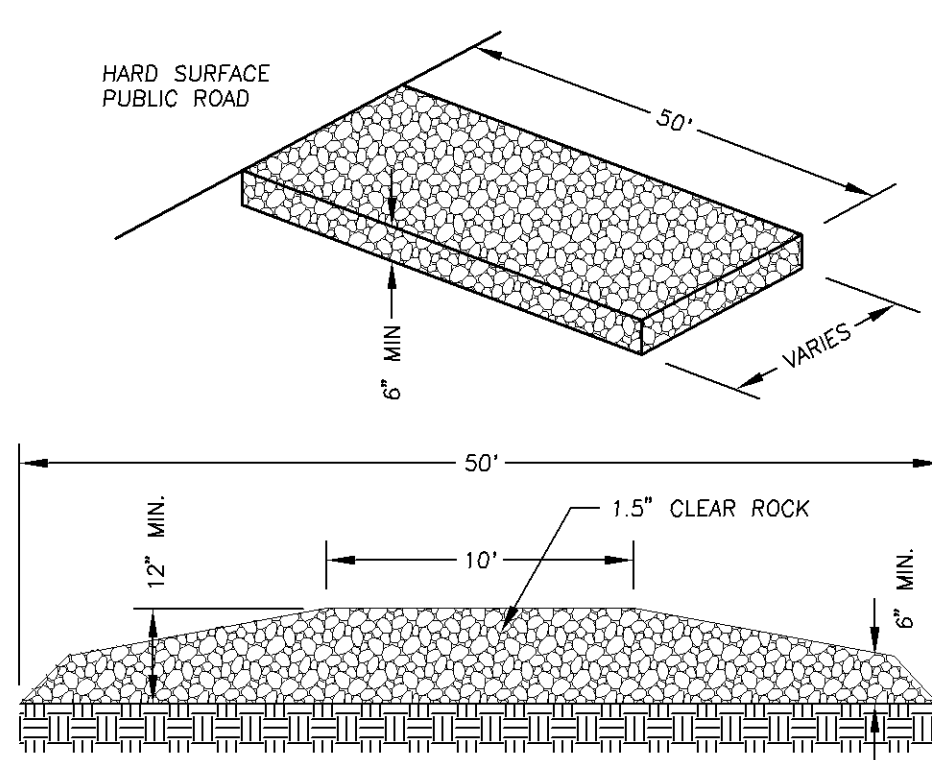
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
PRELIMINARY
Name _____ Date _____ Reg. No. _____

Issued
CITY AND WATERSHED SUBMITTAL
ADDRESS CITY COMMENTS
3-18-20
4-7-20

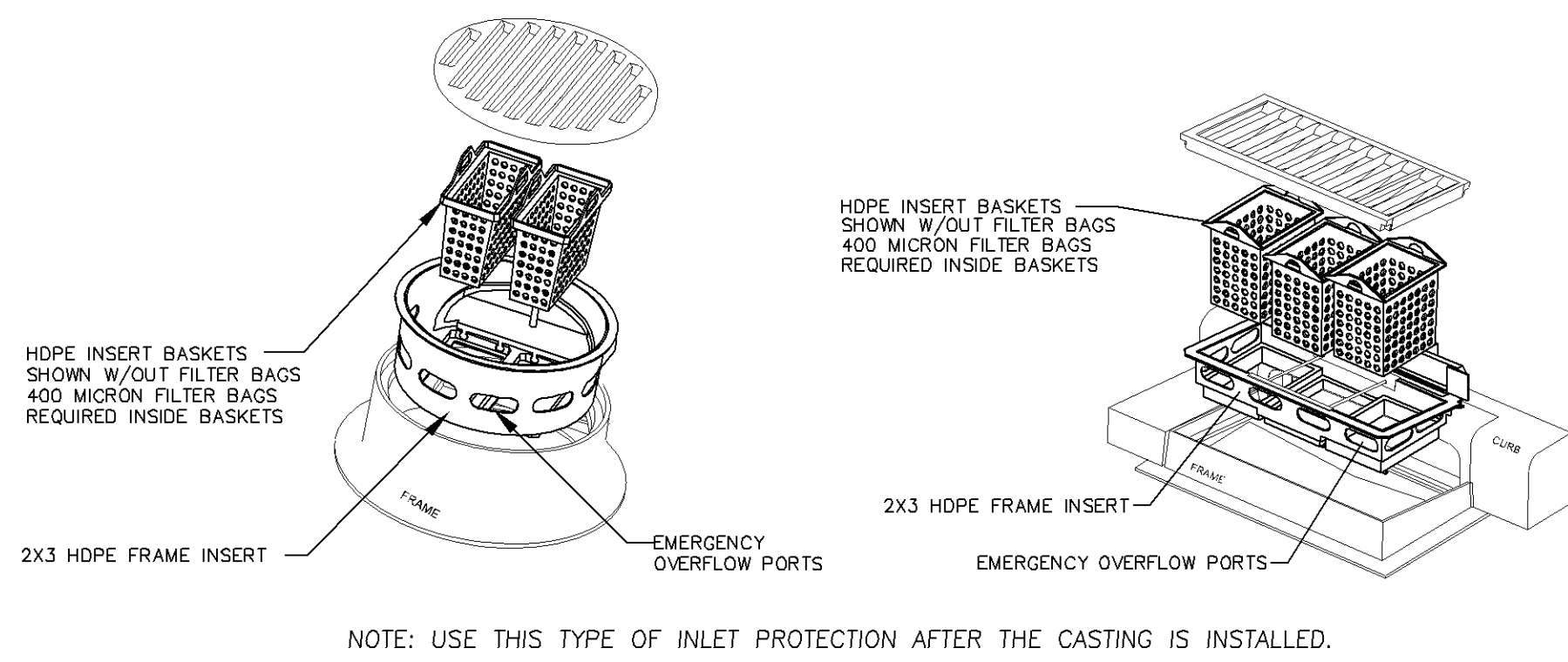
REHDER & ASSOCIATES INC.
Civil Engineers & Land Surveyors
1440 Walnut Drive, Suite 110
Bloomington, MN 55405
Telephone 612-425-5051
www.rehder.com
PROJECT NO.: 201-2245-016 DRAWING FILE: 2245016.DWG



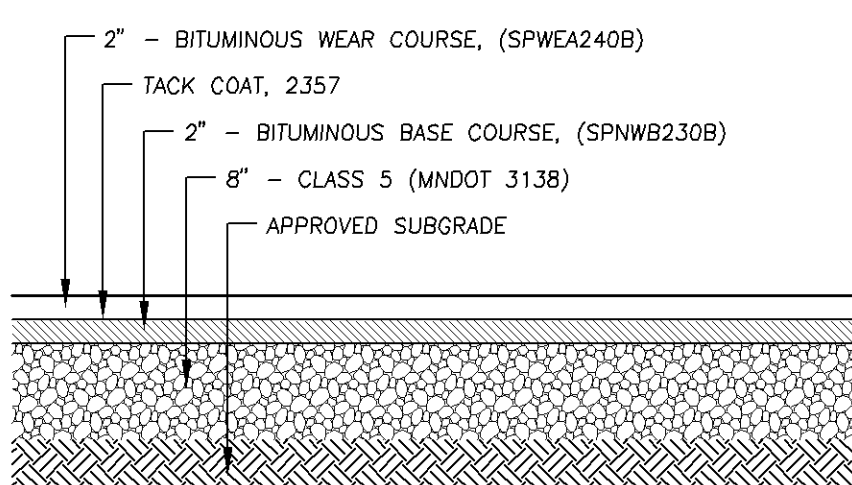
1
C3
SILT FENCE
NO SCALE



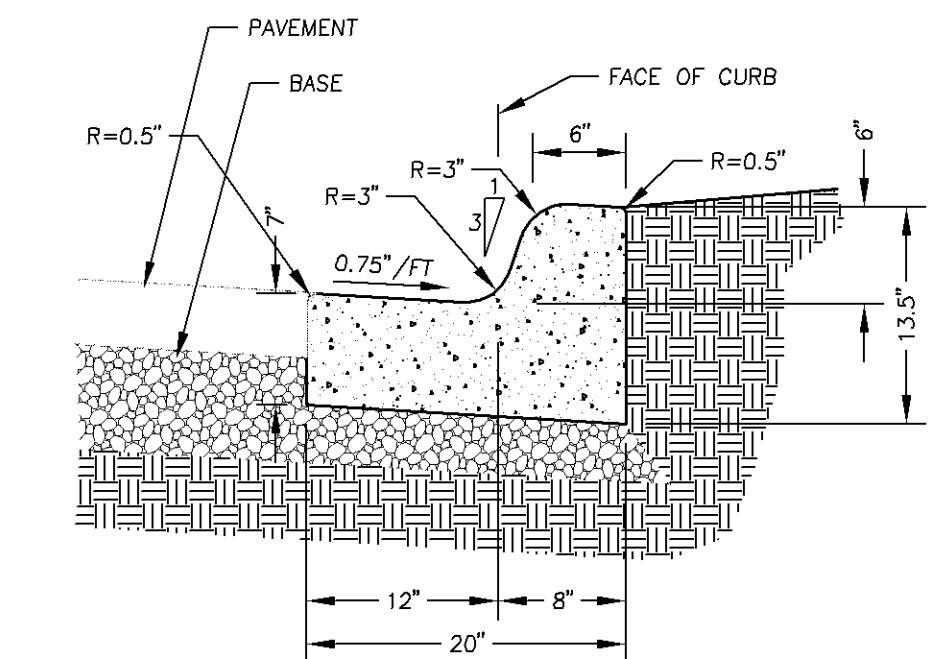
2
C3
ROCK CONSTRUCTION ENTRANCE
NO SCALE



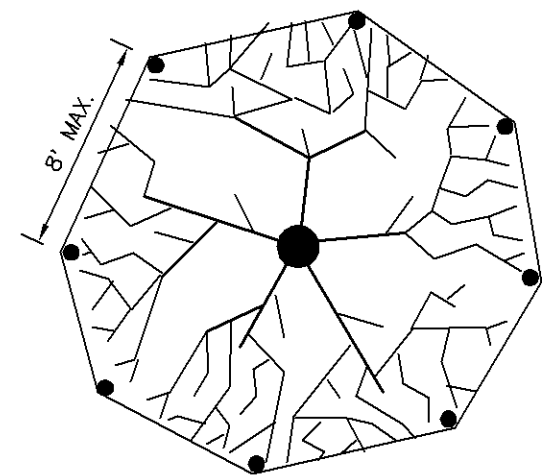
3
C3
INLET PROTECTION
(INFRASAFE OR EQUAL)
NO SCALE



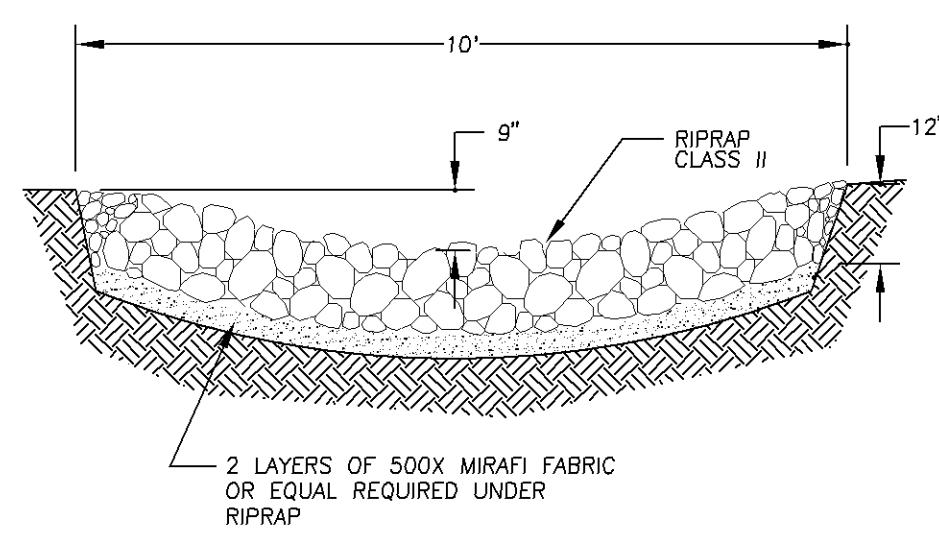
4
C3
PAVEMENT SECTION
NO SCALE



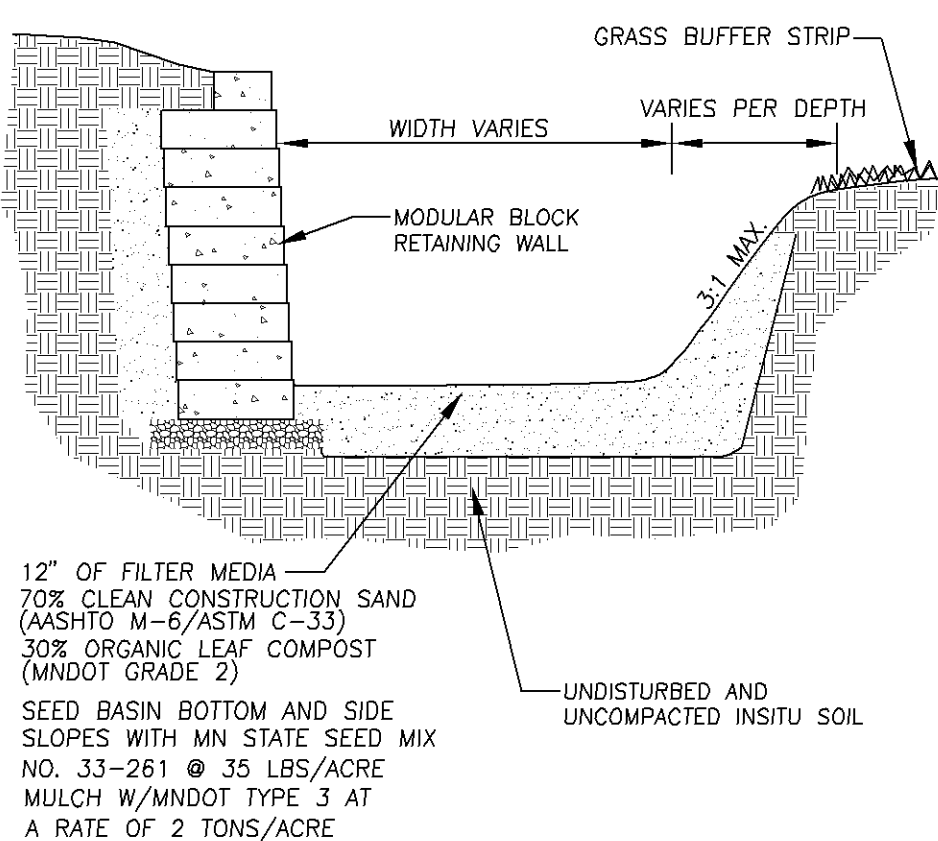
5
C3
B612 CONCRETE CURB & GUTTER
NO SCALE



6
C3
TREE PROTECTION
NO SCALE



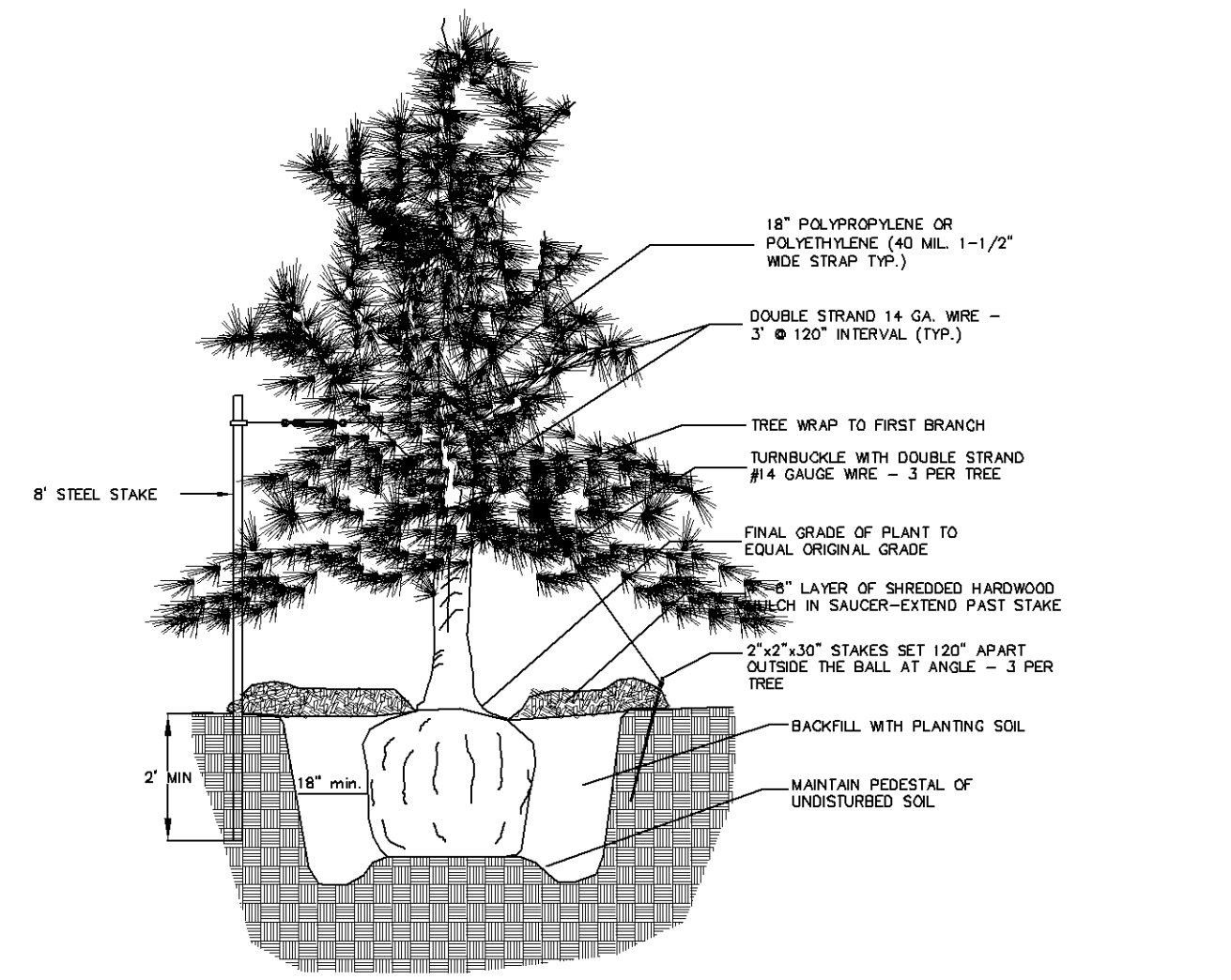
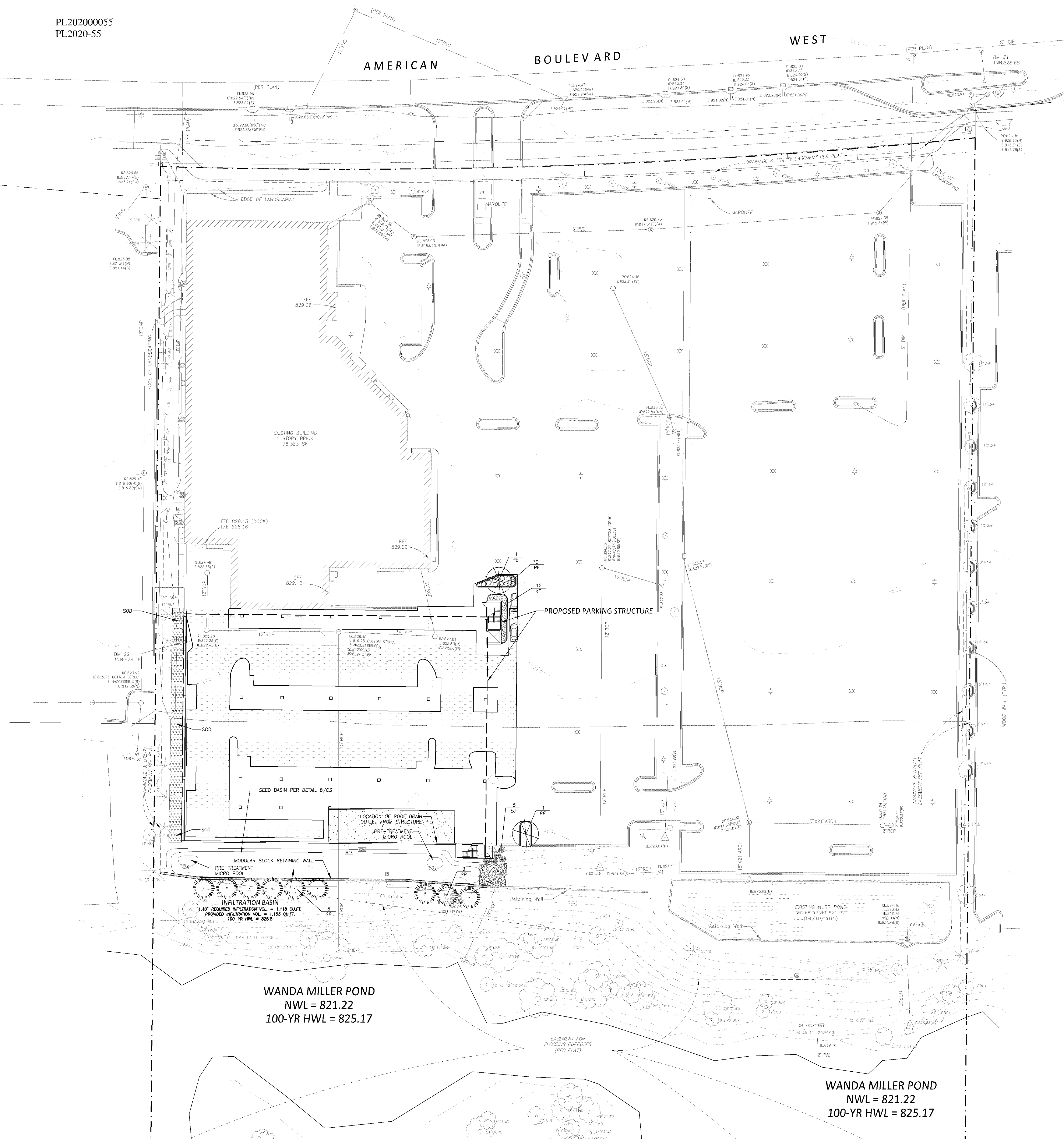
7
C3
BASIN OVERFLOW
NO SCALE



8
C3
INFILTRATION BASIN X-SECTION
NO SCALE

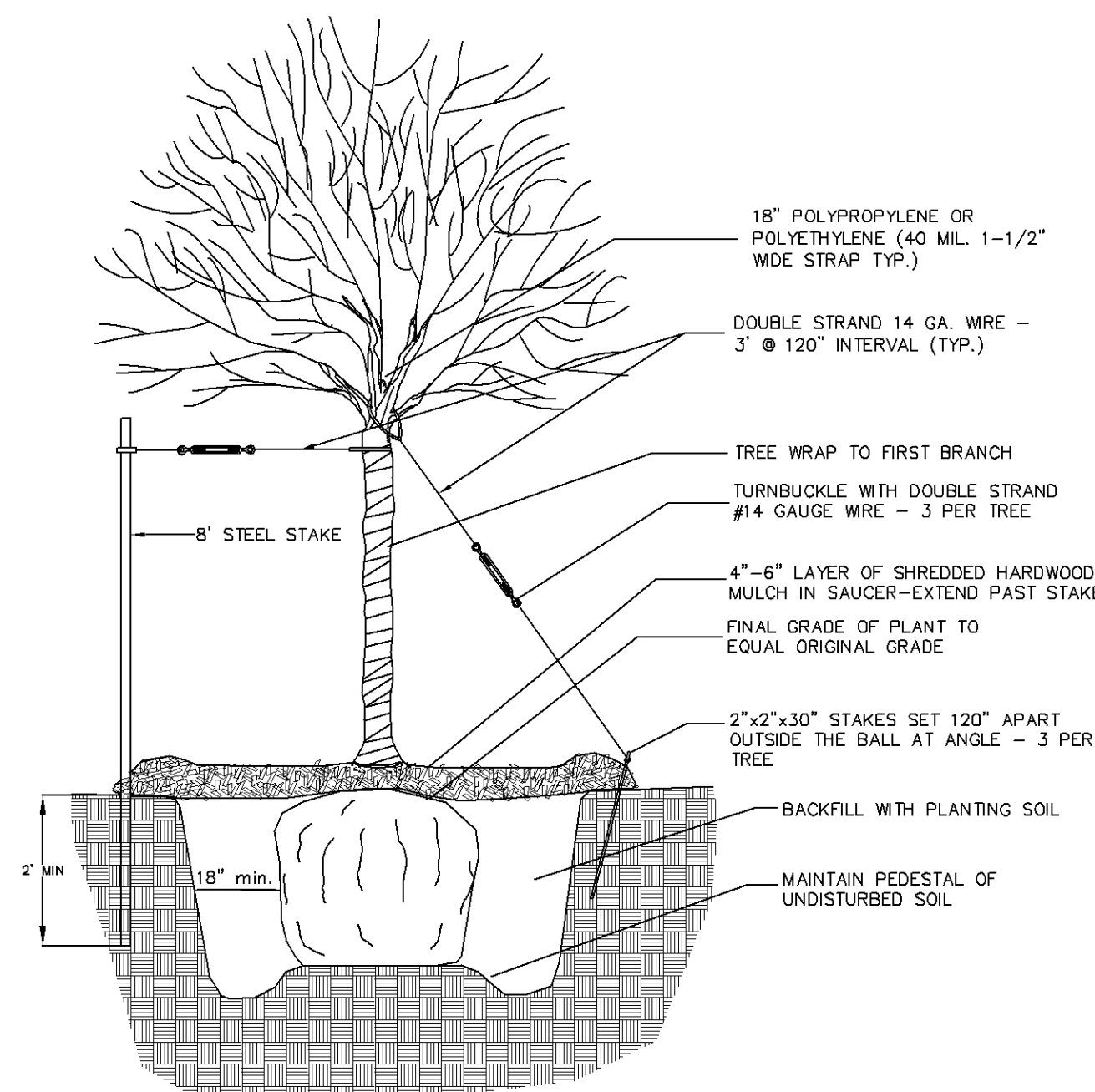
PL202000055
PL2020-55

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PL2020-55



NOTES:
TWO ALTERNATE METHODS OF TREE STAKING ARE SHOWN.
IT IS THE CONTRACTOR'S OPTION TO STAKE TREES; HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTAINING TREES IN A PLUMB POSITION THROUGHOUT THE GUARANTEE PERIOD.
SCAFFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.
CONFER TO HAVE SHREDDED HARDWOOD MULCH UNLESS NO MULCH TO BE IN CONTACT WITH TRUNK.

CONIFEROUS TREE PLANTING DETAIL



NOTES:
TWO ALTERNATE METHODS OF TREE STAKING ARE SHOWN.
IT IS THE CONTRACTOR'S OPTION TO STAKE TREES; HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTAINING TREES IN A PLUMB POSITION THROUGHOUT THE GUARANTEE PERIOD.
SCAFFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.

DECIDUOUS TREE PLANTING DETAIL

PLANT LIST

PLANTS & SHRUBS

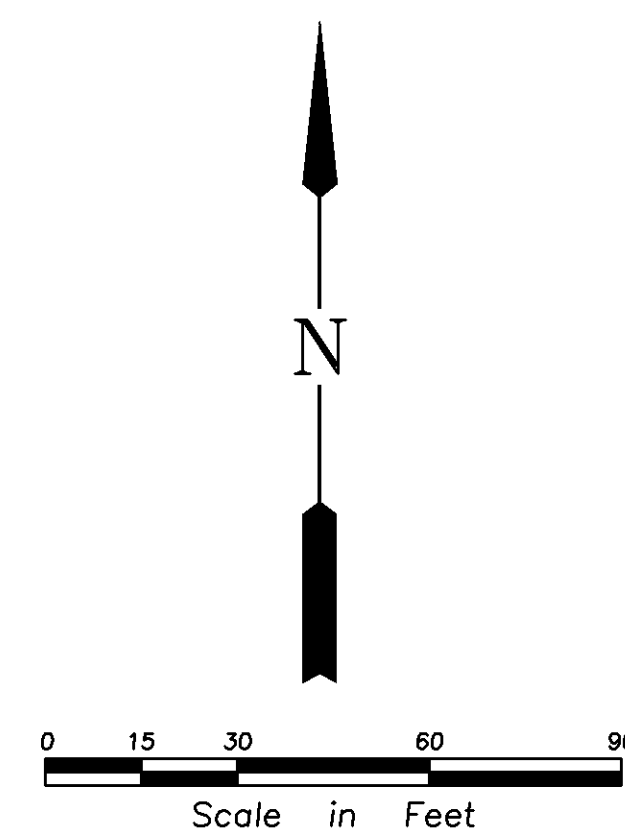
SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE/ROOT
KF	12	Calamagrostis acutiflora	Karl Forester	#2 Pot
SJ	5	Juniperus sabina 'Scandia'	Scandia Juniper	#5 Pot
DL	10	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	#2 Pot

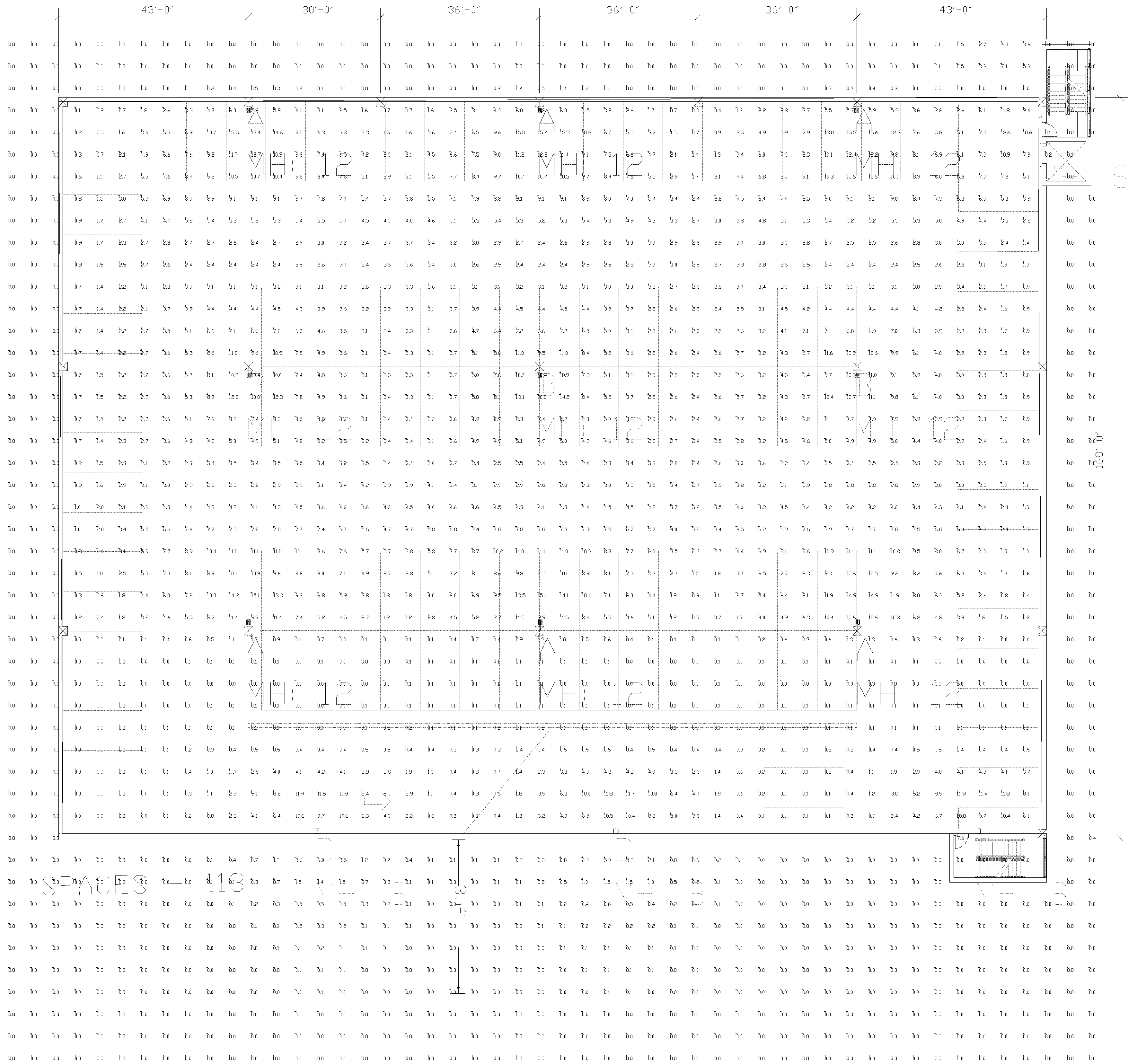
TREES

SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE/ROOT
SP	9	Picea pungens 'Fat Albert'	Spruce	6' B&B
PE	2	Ulmus 'Patriot'	Patriot Elm	2.5' B&B

LEGEND

- PROPOSED CONCRETE
- PROPOSED STD. DUTY BITUMINOUS
- PROPOSED MILL & OVERLAY
- BOUNDARY/ROW/BLOCK LINE
- EASEMENT





Click image to open Product Page

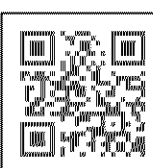
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALCS AT GRADE 5'X5'	Illuminance	Fc	2.59	15.6	0.0	N.A.	N.A.
PARKING DECK SUMMARY	Illuminance	Fc	3.98	15.6	0.0	N.A.	N.A.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	UDF	LLF	Arr. Lum. Lumens	Arr. Watts
	6	A	SINGLE	SLM-LED-18L-SIL-FT-50-70CRI-IL-SINGLE-8' POLE	1000	1000	1000	12568	148.5
	3	B	SINGLE	SLM-LED-18L-SIL-SW-50-70CRI-SINGLE-8' POLE +	1000	1000	1000	18327	148.5
	4	D	SINGLE	XWM-3-LED-06L-50	1000	1000	1000	6011	44.7

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Total Project Watts_1
Total Watts = 1515.3



LIGHTING PROPOSAL LO-150804

WALTER TOWEN
4401 AMERICAN RD.
BLOOMINGTON, MN

BY: GEF DATE: 3/18/2020 REV: SHEET 1 OF 1

SCALE: 1"=16'

0 16