Building/property shall be adequately signed for emergency response.

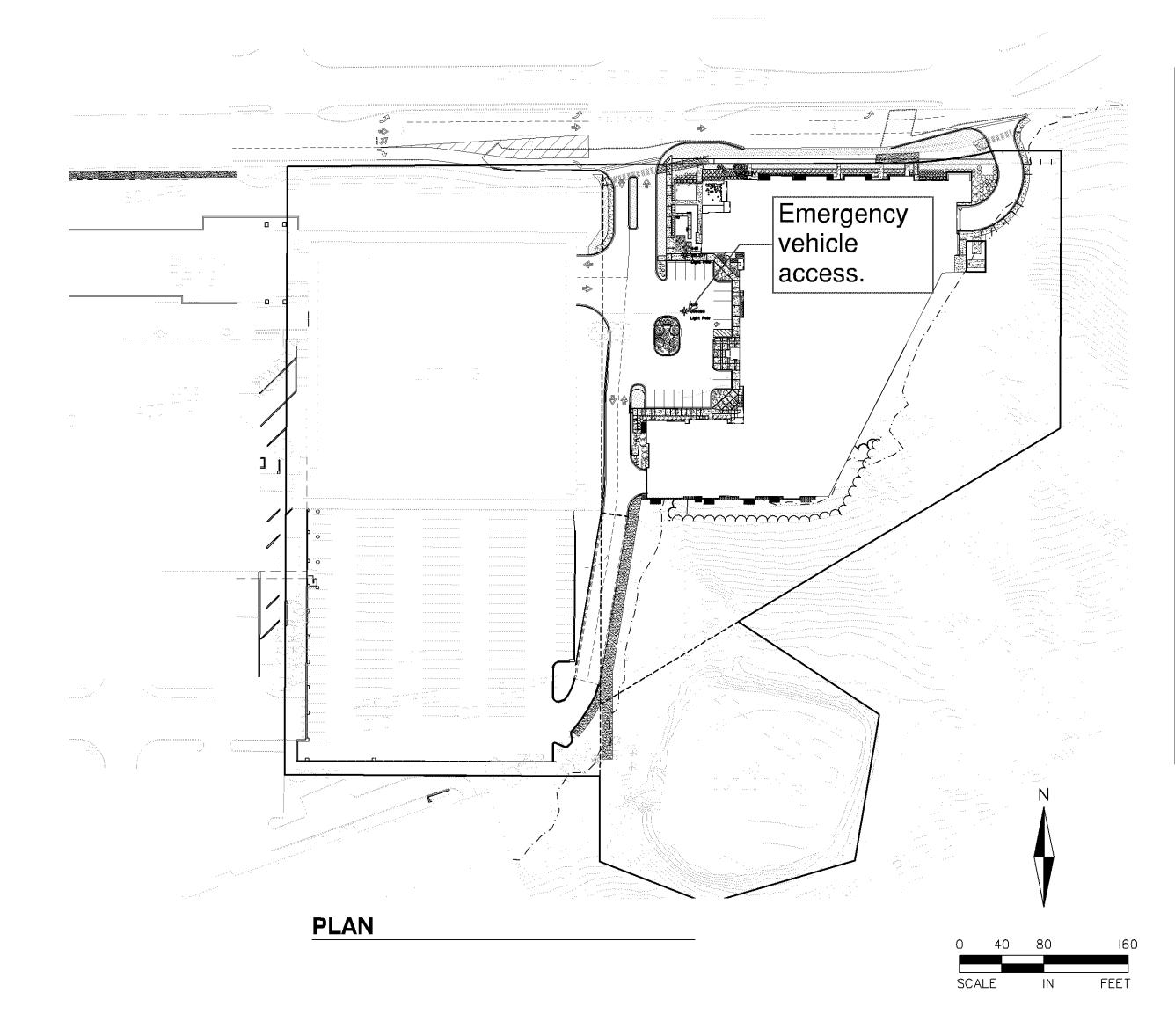
radius for all emergency vehicle access lanes.

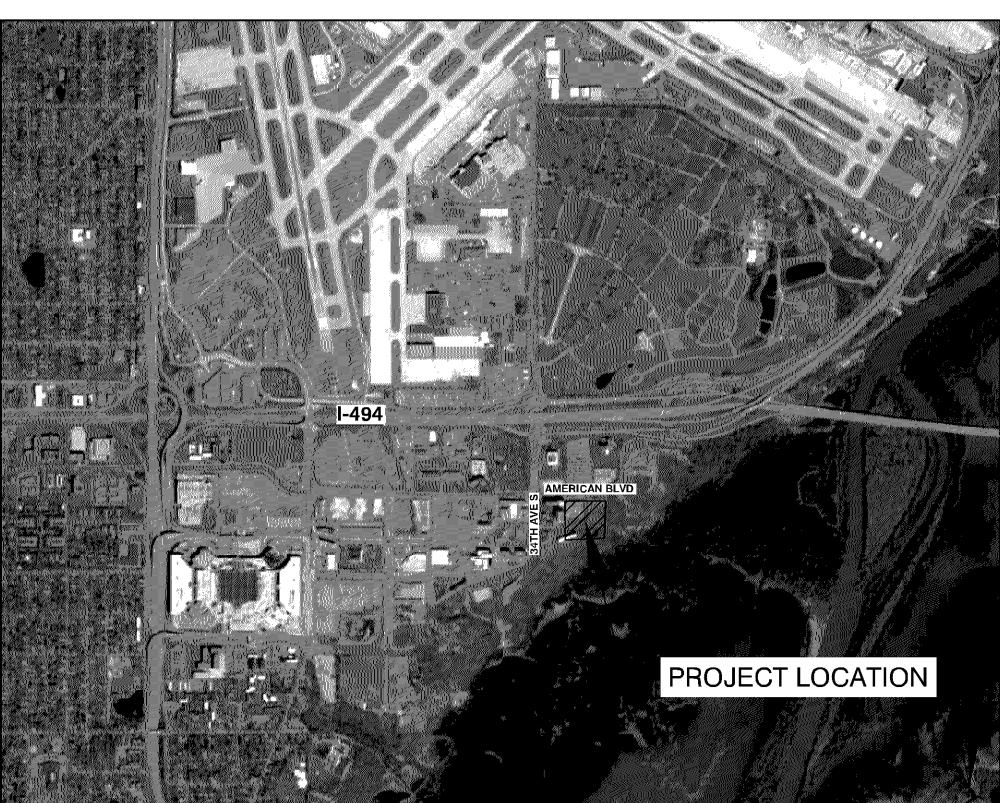
Hydrant coverage shall be provided within 50' of the FDC and within 150' of all portions of the structure

interfere with access to the building, hydrants and/or FDC.

AMERICAN SQUARE APARTMENTS

AMERICAN BOULEVARD E AND 34TH AVE SOUTH BLOOMINGTON, MINNESOTA FINAL DEVELOPMENT PLAN





SITE VICINITY MAP

SHEET INDEX

Sheet Number	Sheet Title
C-1.0	COVER PAGE
C-2.0	EXISTING CONDITIONS
C-2.1	TREE INVENTORY
C-3.0	DEMOLITION PLAN
C-4.0	SITE PLAN
C-5.0	GRADING AND EROSION CONTROL PLAN
C-5.1	EROSION CONTROL, SWPPP, AND BLUFF PROTECTION NOTES
C-6.0	UTILITY PLAN
C-7.0	DETAILS
C-7.1	DETAILS
C-7.2	DETAILS
C-7.3	DETAILS
L-1.0	LANDSCAPE PLAN
L-2.0	LANDSCAPE DETAILS



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DEVELOPER

KAEDING MANAGEMENT / RON CLARK CONSTRUCTION

ARCHITECT

MOMENTUM DESIGN GROUP PRIOR WORKS BUILDING 755 PRIOR AVENUE NORTH SUITE #301A ST. PAUL, MINNESOTA 55104 OFFICE: 952.583.9788 WWW.MDGARCHITECTS.COM

SURVEYOR

HARRY JOHNSON HARRY S. JOHNSON CO., INC. LAND SURVEYORS 9063 LYNDALE AVENUE SOUTH BLOOMINGTON, MN 55437 PH: 952-88-4-5341 www.hsjsurveyors.com

CONSULTANT

ALLIANT ENGINEERING, INC. 733 MARQUETTE AVE STE, 700 MINNEAPOLIS, MN 55415 PH: 612-758-3080 / FX: 612-758-3099 www.alliant-inc.com

CIVIL ENGINEER

DAVE NASH LICENSE NO. 40922 EM: dnash@alliant-inc.com

LANDSCAPE ARCHITECT

MARK KRONBECK, PLA, ASLA LICENSE NO. 26222 EM: mkronbeck@alliant-inc.com

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 DAVID NASH, PE License No.

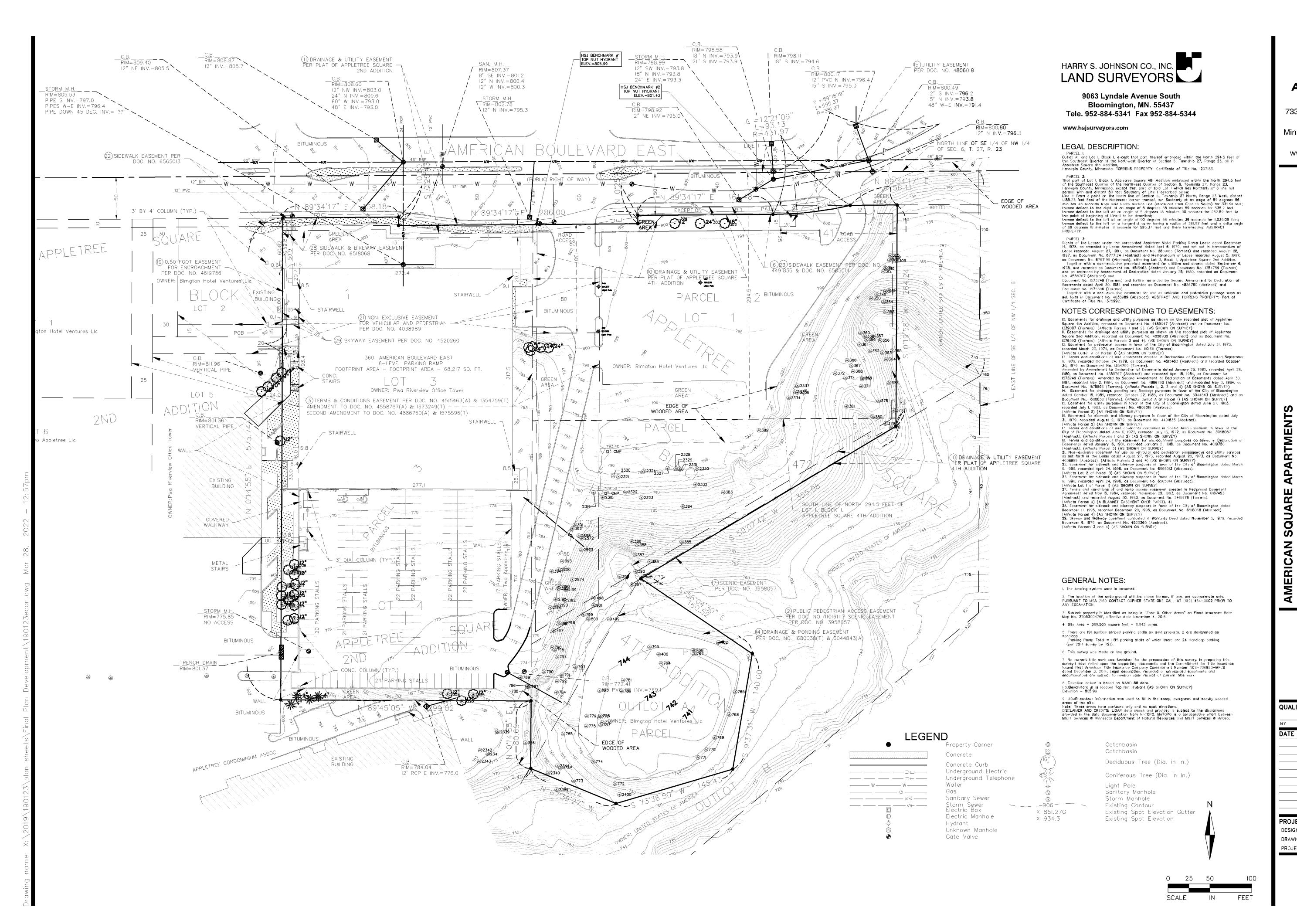
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PARTMENTS

34TH AVE SOUT

ION, MN | BOULEVARD E. AND . Erican Boulevard Ea

AMERICAN BOULEY.
3601 AMERICAN B

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TREE INVENTORY

Tag Number	DBH	Common Name	Remove	Located in the Bluff	Notes
302		Basswood	X		2x trunk 15, 11
303	15	Basswood	Х		
304	19	Basswood	X		
305		Hackberry		Yes	
306		Hackberry		Yes	
307		Hackberry		Yes	
308 309		Hackberry		Yes Yes	
310		Hackberry Hackberry		Yes	
311		Hackberry		Yes	
312		Hackberry		Yes	
313		Hackberry		Yes	
314		Hackberry		Yes	
349	14	Hackberry		Yes	
350	12	Hackberry		Yes	
353		Hackberry		Yes	
354		Locust		Yes	
356		Locust		Yes	
357		Locust		Yes	
358 359		Hackberry Locust		Yes Yes	
360		Hackberry		Yes	
361		Locust		Yes	
362	*******************	Hackberry	***************************************	Yes	
363		Hackberry		Yes	
364		Hackberry		Yes	
365		Hackberry		Yes	
366	4	Oak		Yes	
367		Locust		Yes	
368		Oak		Yes	2x trunk 18, 23
369	**********************	Elm	***************************************	Yes	
370		Elm		Yes	
371		Elm		Yes	
372		Oak		Yes	
373 374		Elm Elm		Yes Yes	
374		Oak		Yes	
376		Elm		Yes	
377		Hackberry		Yes	
378		Hackberry		Yes	
379	12	Oak		Yes	
380	15	Elm		Yes	
381	30	Elm		Yes	2x trunk 18, 12
382		Russian Olive		Yes	
383		Russian Olive		Yes	2x trunk 10, 10
384		Hackberry		Yes	
385		Hackberry		Yes	2
386 387		Hackberry Hackberry		Yes Yes	2x trunk 15, 5
388		Elm		Yes	
389		Elm		Yes	
390	10	Elm		Yes	
391	25	Russian Olive		Yes	3x trunk 7, 10, 8
392	4	Hackberry		Yes	
393	7	Locust	X	Yes	
394				103	
	4	Locust	Х		
395	4	Locust Hackberry		Yes	
395 396	4 4 5	Locust Hackberry Hackberry		Yes Yes	
395 396 397	4 4 5 6	Locust Hackberry Hackberry Elm		Yes Yes Yes	
395 396 397 398	4 4 5 6 7	Locust Hackberry Hackberry Elm Elm		Yes Yes Yes Yes	
395 396 397	4 4 5 6 7 4	Locust Hackberry Hackberry Elm		Yes Yes Yes	
395 396 397 398 399	4 4 5 6 7 4 4	Locust Hackberry Hackberry Elm Elm Hackberry		Yes Yes Yes Yes Yes	
395 396 397 398 399 400	4 4 5 6 7 4 4 6	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes Yes Yes Yes Yes Yes Yes	
395 396 397 398 399 400 402 764 765	4 4 5 6 7 4 4 6 8	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm		Yes	
395 396 397 398 399 400 402 764 765 766	4 4 5 6 7 4 4 6 8 8	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm		Yes	
395 396 397 398 399 400 402 764 765 766	4 4 5 6 7 4 4 6 8 8 9	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768	4 4 5 6 7 4 4 6 8 8 9 9	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769	4 4 5 6 7 4 4 6 8 8 9 9	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770	4 4 5 6 7 4 4 6 8 8 9 9 5 8	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770	4 4 5 6 7 4 4 6 8 8 9 9 5 8 6	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm Elm Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770	4 4 5 6 7 4 4 6 8 8 9 9 9 5 8 6 5	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm Elm Elm Elm Elm Elm Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771	4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772	4 4 5 6 7 4 4 6 8 8 8 9 9 5 8 6 5 9 4 4 4	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 4 4 19 6	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776	4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 4 19 6	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 778	4 4 4 5 6 7 4 6 8 8 8 9 9 5 8 6 5 9 4 4 4 19 6 7	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777	4 4 4 5 6 7 4 4 6 8 8 9 9 9 5 8 6 5 9 4 4 19 6 7	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 778 779 780	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 4 19 6 7 19 4 19 4 19 4 4	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 778 778 779 780 781	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 4 19 6 7 7 19 6 7 7	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 4 19 6 7 19 6 7	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 19 6 7 19 4 17 6 6 5	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm	X	Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 778 779 780 781 782 783 784	4 4 4 5 6 7 4 4 6 8 8 8 9 9 5 8 6 5 9 4 4 19 6 7 19 4 17 6 6 7	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm		Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	4 4 4 5 6 7 4 4 6 8 8 9 9 5 8 6 5 9 4 19 6 7 19 4 17 6 6 5 5 5 5 5 5	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm	X	Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 778 779 780 781 782 783 784	4 4 4 5 6 7 4 4 6 8 8 8 9 9 5 8 6 5 9 4 4 19 6 7 19 6 6 7 19 6 6 6 6 6 7 6 6 6 6 7 6 6 6 6 6 7 6	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm	X	Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786	4 4 4 5 6 7 4 4 6 8 8 8 9 9 9 5 8 6 5 9 4 19 6 7 19 4 17 6 6 6 7	Locust Hackberry Hackberry Elm Elm Elm Hackberry Hackberry Hackberry Elm	X	Yes	2x trunk 5, 4
395 396 397 398 399 400 402 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 778 779 780 781 782 783 784 785 785	4 4 4 5 6 7 4 4 6 8 8 8 9 9 5 8 6 5 9 4 19 6 7 19 4 17 6 6 5 5 5 6 10 10	Locust Hackberry Hackberry Elm Elm Hackberry Hackberry Hackberry Elm	X	Yes	2x trunk 5, 4

Tag Number	DBH	Common Name	Remove	Located in the Bluff	Notes
791		Elm	Welliove	Yes	Mores
792		Elm	Х	Yes	
792		Hackberry	^	Yes	
794		Elm		Yes	
795		Elm		Yes	
795 796		Elm		Yes	
797		Cottonwood		Yes	
798		Elm		Yes	
799		Elm		Yes	
901		Elm		Yes	
1396		Box Elder		Yes	
1498		Elm		Yes	
1499		Elm		Yes	
2193		Cottonwood		Yes	
2194		Elm	X	Yes	
2195		Elm		Yes	
2196		Cottonwood		Yes	
2199		Cottonwood		Yes	
2200		Elm	X	Yes	
2301		Colorado Green Spruce			11' tall
2303		Colorado Green Spruce			11' tall
2304		Colorado Green Spruce			11' tall
2305		Crab Apple			
2306		Crab Apple			
2307		Crab Apple			
2308	12	Crab Apple			
2309		Crab Apple			
2310	12	Crab Apple			
2311		Crab Apple			
2312	12	Crab Apple			
2313	12	Crab Apple			
2314	12	Crab Apple			
2315	12	Crab Apple			
2316	12	Crab Apple			
2318		Elm		Yes	
2319	26	Box Elder			2x trunk 16, 10
2320	38	Cottonwood	Х		
2321	16	Cottonwood	X		
2322	45	Cottonwood			3x trunk 18, 15, 12
2323		Cottonwood		Yes	4x trunk 16, 16, 16, 16
2324		Cottonwood	Х		, , ,
2325		Ash			
2326		Ash			
2327		Cottonwood	Х		
2328		Cottonwood	X		
2329		Cottonwood	X		
2330		Cottonwood	X		
2331		Cottonwood	X		
2332		Cottonwood	,,	Yes	
2334		Cottonwood		Yes	
2335		Cottonwood		Yes	
2336		Cottonwood		Yes	
2337		Cottonwood		Yes	
2338		Ash		Yes	
2339		Maple		Yes	
2339		Cottonwood		Yes	3x trunk 39, 29, 28
2340		Hackberry		Yes	JA CIULIN JJ, ZJ, ZO
2341		Maple Maple		Yes	
2342		Hackberry		Yes Yes	
		Cottonwood			
2344				Yes	
2345		Cottonwood		Yes	
2399		Cottonwood		Yes	
2400		Cottonwood		Yes	
2572		Elm		Yes	
2573		Cottonwood		Yes	
2574		Elm		Yes	
2698	10	Elm		Yes	



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AMERICAN SQUARE APARTMENTS
BLOOMINGTON, MN
AMERICAN BOULEVARD E. AND 34TH AVE SOUTH
3601 AMERICAN BOULEVARD EAST
100 % GMP / PERMIT SET

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

David Nash, PE

04-04-22 21836
Date License No.

QUALITY ASSURANCE/CONTROL

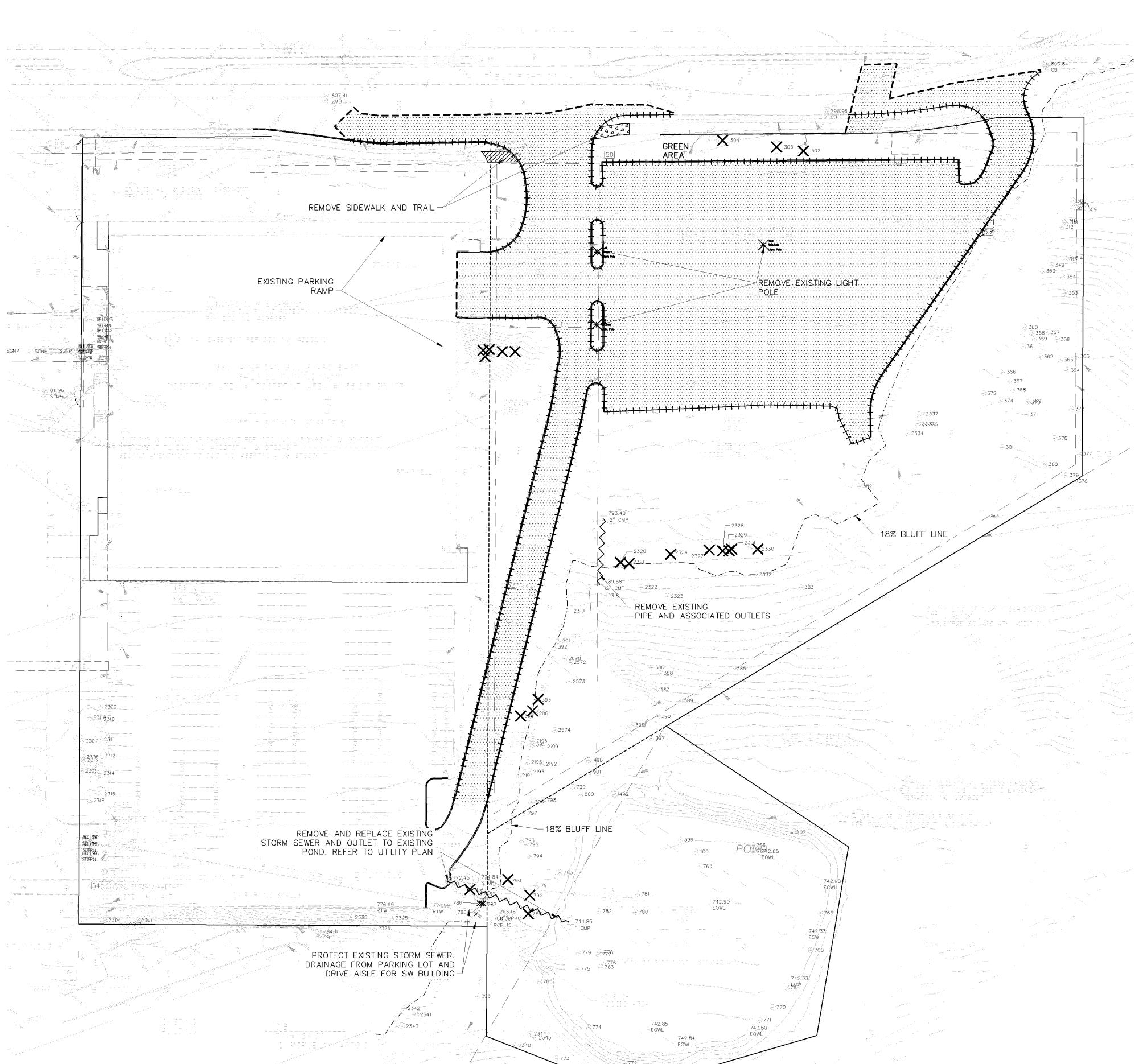
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PROJECT TEAM DATA
DESIGNED:
DRAWN:

PROJECT NO:

C-2.1



DEMOLITION NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE GEOTECHNICAL AND EVALUATION REPORTS AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN GEOTECHNICAL AND EVALUATION REPORTS & PLANS, ETC.
- 2. NOTIFY GOPHER ONE 48 HOURS PRIOR TO ANY SITE DEMOLITION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, CONTACT GOPHER STATE ONE CALL (1-800-252-1166) FOR UTILITY LOCATION PRIOR TO DEMOLITION AND CONSTRUCTION.
- 3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. DEMOLITION CONTRACTOR SHALL ALSO FILE FOR ALL NECESSARY PERMITS FOR DEMOLITION WITH THE CITY OF BLOOMINGTON.
- 4. CONTRACTOR TO COORDINATE THE REMOVAL OF THE EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES.
- 5. DEMOLITION CONTRACTOR SHALL PROVIDE AIR QUALITY CONTROL MEASURES AT THE REQUEST OF COUNTY/CITY HEALTH INSPECTOR/INSPECTIONS OFFICER. DEMOLITION CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP DUST LEVELS TO A
- 6. CONTRACTOR SHALL FURNISH ALL NECESSARY FENCING BARRICADES AND SIGNING NEEDED TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC FROM HAZARDS RESULTING FROM DIRECTLY OR INDIRECTLY FROM CONSTRUCTION.
- 7. ALL ITEMS CALLED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE IN A LOCATION APPROVED BY THE STATE.
- 8. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION & REMOVAL OF ALL EXISTING STRUCTURES WHICH INTERFERE WITH NEW WORK AS SHOWN IN PROPOSED CONSTRUCTION DRAWINGS.
- 9. CONTRACTOR SHALL PROTECT ADJOINING PROPERTIES & STRUCTURES FROM HAZARDS ASSOCIATED WITH HIS CONSTRUCTION ACTIVITIES & SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PROPERTIES & STRUCTURES THAT OCCUR AS A RESULT OF THESE
- 10. CONTRACTOR SHALL NOT IMPEDE EXISTING TRAFFIC CIRCULATION TO ADJACENT
- 11. PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH THE MOST CURRENT EDITION OF THE MINNESOTA TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD
- 12. DEMOLITION CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE ENVIRONMENTAL REPORTS INCLUDING THE PHASE I REPORT AND FOLLOW REPORT RECOMMENDATIONS.

LEGEND

PROPERTY LINE ---- EASEMENTS REMOVE TREE REMOVE CURB AND GUTTER REMOVE EXISTING UTILITY **-**.~~~~~~~

CLEARING LIMITS

REMOVE BITUMINOUS PAVEMENT/PATH 244444444

REMOVE BITUMINOUS TRAIL REMOVE CONCRETE SIDEWALK REMOVE EXISTING LIGHT POLE



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ARTMENT

AP

SQUARE

l her**eb**y **c**ertify that this pl**a**n, 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

DAVID NASH, PE **04-04-2**2

License No.

DMS/DJN

190123

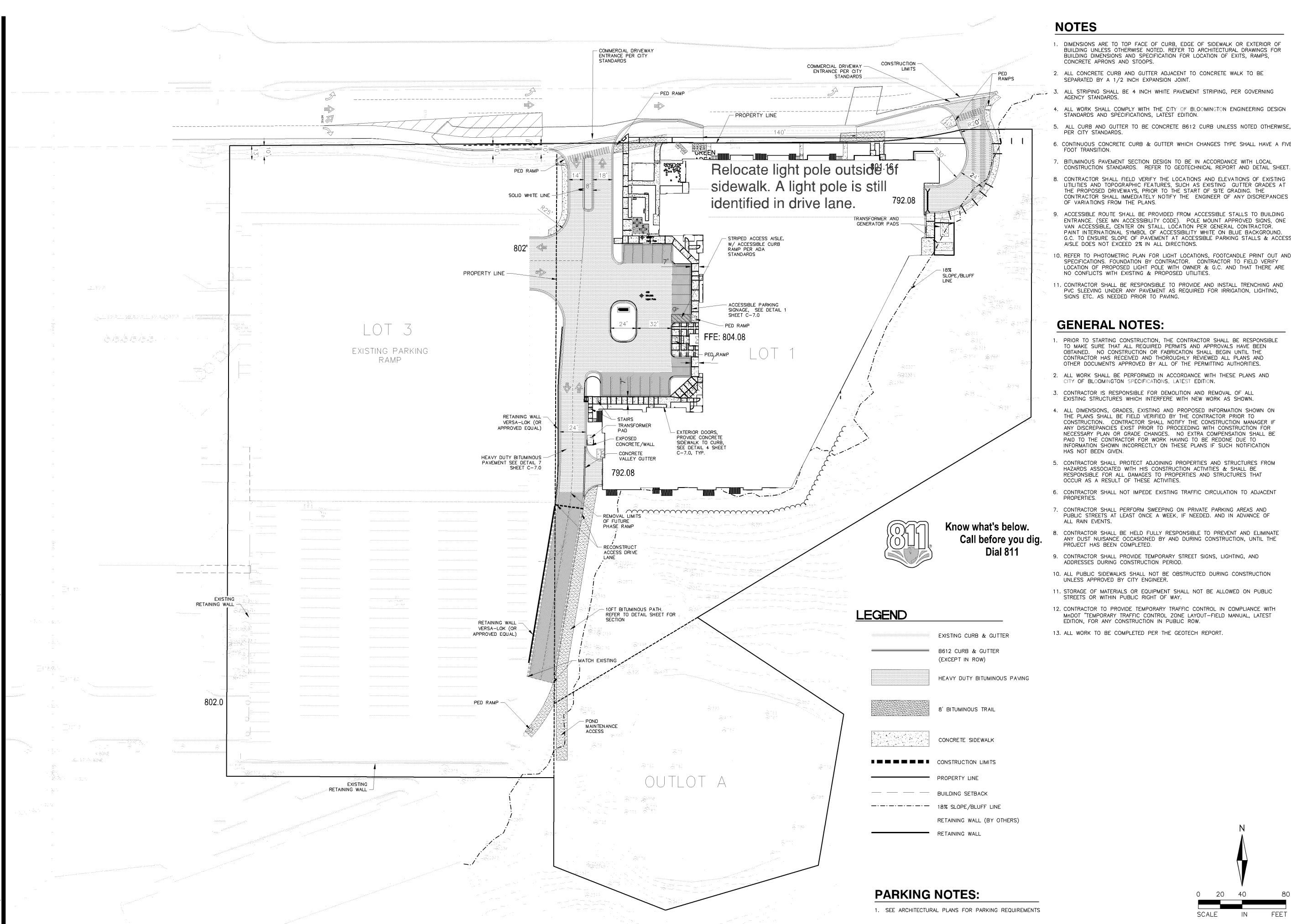
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QUALITY ASSURANCE/CONTROL

PROJECT TEAM DATA DESIGNED: DRAWN: PROJECT NO:

C-3.0

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NOTES

- DIMENSIONS ARE TO TOP FACE OF CURB, EDGE OF SIDEWALK OR EXTERIOR OF BUILDING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND SPECIFICATION FOR LOCATION OF EXITS, RAMPS, CONCRETE APRONS AND STOOPS.
- 2. ALL CONCRETE CURB AND GUTTER ADJACENT TO CONCRETE WALK TO BE SEPARATED BY A 1/2 INCH EXPANSION JOINT.
- 3. ALL STRIPING SHALL BE 4 INCH WHITE PAVEMENT STRIPING, PER GOVERNING AGENCY STANDARDS.
- 4. ALL WORK SHALL COMPLY WITH THE CITY OF BLOOMINGTON ENGINEERING DESIGN STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- 5. ALL CURB AND GUTTER TO BE CONCRETE B612 CURB UNLESS NOTED OTHERWISE, PER CITY STANDARDS.
- 6. CONTINUOUS CONCRETE CURB & GUTTER WHICH CHANGES TYPE SHALL HAVE A FIVE FOOT TRANSITION.
- BITUMINOUS PAVEMENT SECTION DESIGN TO BE IN ACCORDANCE WITH LOCAL
- 8. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES, SUCH AS EXISTING GUTTER GRADES AT THE PROPOSED DRIVEWAYS, PRIOR TO THE START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF VARIATIONS FROM THE PLANS.
- 9. ACCESSIBLE ROUTE SHALL BE PROVIDED FROM ACCESSIBLE STALLS TO BUILDING ENTRANCE. (SEE MN ACCESSIBILITY CODE). POLE MOUNT APPROVED SIGNS, ONE VAN ACCESSIBLE, CENTER ON STALL, LOCATION PER GENERAL CONTRACTOR. PAINT INTERNATIONAL SYMBOL OF ACCESSIBILITY WHITE ON BLUE BACKGROUND. G.C. TO ENSURE SLOPE OF PAVEMENT AT ACCESSIBLE PARKING STALLS & ACCESS AISLE DOES NOT EXCEED 2% IN ALL DIRECTIONS.
- 10. REFER TO PHOTOMETRIC PLAN FOR LIGHT LOCATIONS, FOOTCANDLE PRINT OUT AND SPECIFICATIONS. FOUNDATION BY CONTRACTOR. CONTRACTOR TO FIELD VERIFY LOCATION OF PROPOSED LIGHT POLE WITH OWNER & G.C. AND THAT THERE ARE NO CONFLICTS WITH EXISTING & PROPOSED UTILITIES.
- 11. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL TRENCHING AND PVC SLEEVING UNDER ANY PAVEMENT AS REQUIRED FOR IRRIGATION, LIGHTING, SIGNS ETC. AS NEEDED PRIOR TO PAVING.

GENERAL NOTES:

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND CITY OF BLOOMINGTON SPECIFICATIONS, LATEST EDITION.
- 3. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING STRUCTURES WHICH INTERFERE WITH NEW WORK AS SHOWN.
- 4. ALL DIMENSIONS, GRADES, EXISTING AND PROPOSED INFORMATION SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 5. CONTRACTOR SHALL PROTECT ADJOINING PROPERTIES AND STRUCTURES FROM HAZARDS ASSOCIATED WITH HIS CONSTRUCTION ACTIVITIES & SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PROPERTIES AND STRUCTURES THAT
- 6. CONTRACTOR SHALL NOT IMPEDE EXISTING TRAFFIC CIRCULATION TO ADJACENT PROPERTIES.
- 7. CONTRACTOR SHALL PERFORM SWEEPING ON PRIVATE PARKING AREAS AND PUBLIC STREETS AT LEAST ONCE A WEEK, IF NEEDED. AND IN ADVANCE OF
- 8. CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE TO PREVENT AND ELIMINATE ANY DUST NUISANCE OCCASIONED BY AND DURING CONSTRUCTION, UNTIL THE PROJECT HAS BEEN COMPLETED.
- 9. CONTRACTOR SHALL PROVIDE TEMPORARY STREET SIGNS, LIGHTING, AND ADDRESSES DURING CONSTRUCTION PERIOD.
- 10. ALL PUBLIC SIDEWALKS SHALL NOT BE OBSTRUCTED DURING CONSTRUCTION UNLESS APPROVED BY CITY ENGINEER.
- 11. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT OF WAY.
- 12. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH MnDOT "TEMPORARY TRAFFIC CONTROL ZONE LAYOUT-FIELD MANUAL, LATEST EDITION, FOR ANY CONSTRUCTION IN PUBLIC ROW.

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13. ALL WORK TO BE COMPLETED PER THE GEOTECH REPORT.



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ENT ARTMI AP UARI O S \leq \tau

l her**eb**y **c**ertify that this pl**a**n, 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

David Nach DAVID NASH, PE

04-04-22 License No. QUALITY ASSURANCE/CONTROL

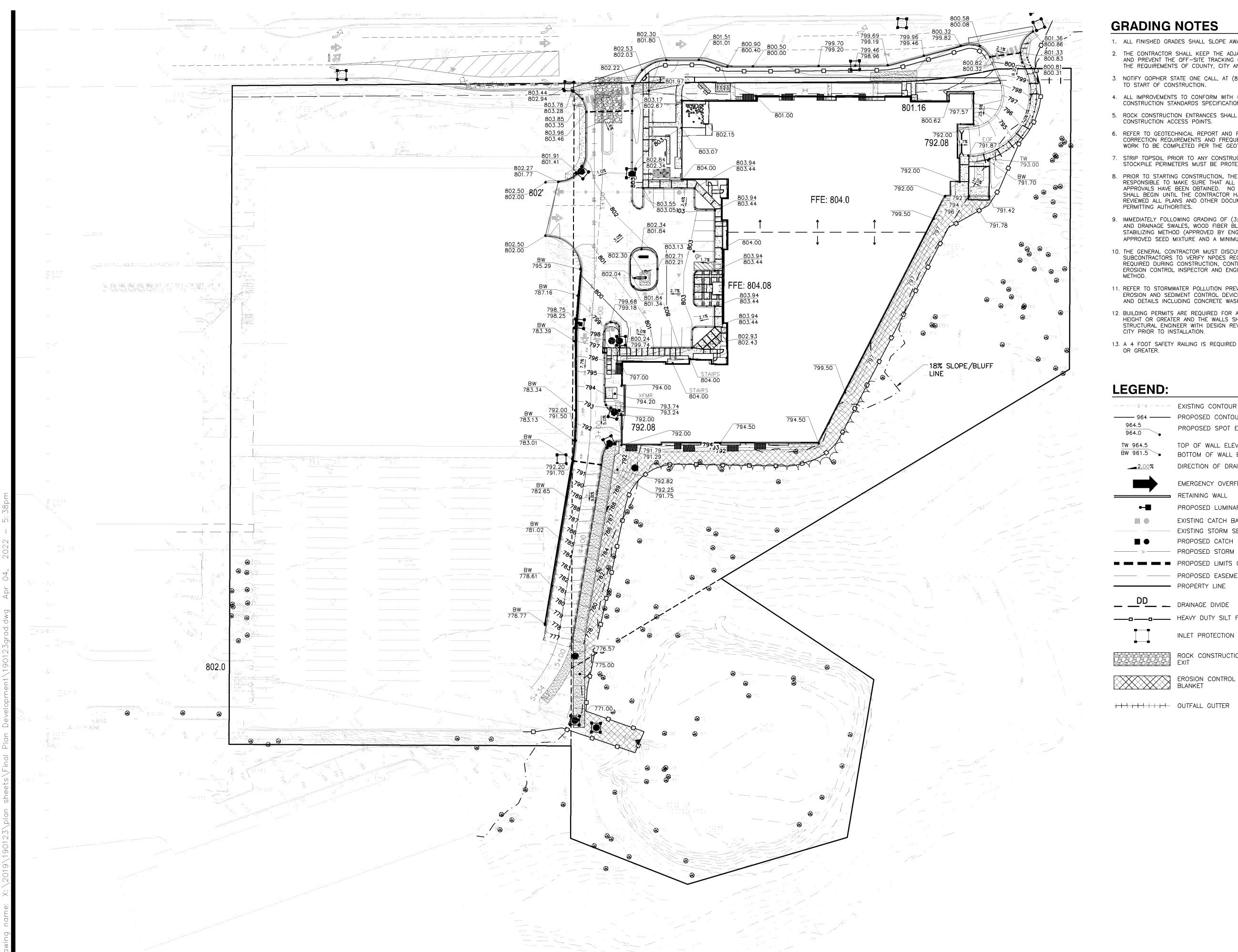
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DATE ISSUE 4-4-22 PERMIT SET

PROJECT TEAM DATA DESIGNED: DRAWN:

PROJECT NO: 190123

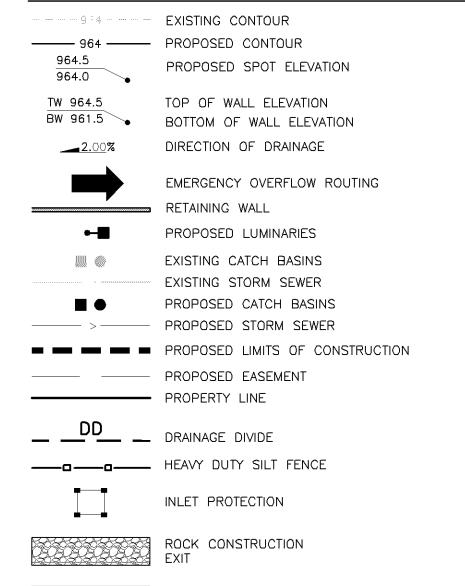
DMS/DJN



GRADING NOTES

- 1. ALL FINISHED GRADES SHALL SLOPE AWAY FROM PROPOSED BUILDINGS. 2. THE CONTRACTOR SHALL KEEP THE ADJACENT ROADWAYS FREE OF DEBRIS AND PREVENT THE OFF—SITE TRACKING OF SOIL IN ACCORDANCE WITH THE REQUIREMENTS OF COUNTY, CITY AND WATERSHED.
- 3. NOTIFY GOPHER STATE ONE CALL, AT (800)252-1166, 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 4. ALL IMPROVEMENTS TO CONFORM WITH CITY OF BLOOMINGTON CONSTRUCTION STANDARDS SPECIFICATION, LATEST EDITION.
- 5. ROCK CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS POINTS.
- 6. REFER TO GEOTECHNICAL REPORT AND PROJECT MANUAL FOR SOIL CORRECTION REQUIREMENTS AND FREQUENT TESTING REQUIREMENTS. ALL WORK TO BE COMPLETED PER THE GEOTECH REPORT.
- 7. STRIP TOPSOIL PRIOR TO ANY CONSTRUCTION. REUSE STOCKPILE ON SITE. STOCKPILE PERIMETERS MUST BE PROTECTED WITH SILT FENCE.
- 8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 9. IMMEDIATELY FOLLOWING GRADING OF (3:1 OR GREATER) SIDE SLOPES AND DRAINAGE SWALES, WOOD FIBER BLANKET OR OTHER APPROVED SOIL STABILIZING METHOD (APPROVED BY ENGINEER) SHALL BE APPLIED OVER APPROVED SEED MIXTURE AND A MINIMUM OF 4" TOPSOIL.
- 10. THE GENERAL CONTRACTOR MUST DISCUSS DEWATERING PLANS WITH ALL SUBCONTRACTORS TO VERIFY NPDES REQUIREMENTS. IF DEWATERING IS REQUIRED DURING CONSTRUCTION, CONTRACTOR SHOULD CONSULT WITH EROSION CONTROL INSPECTOR AND ENGINEER TO DETERMINE APPROPRIATE
- 11. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ALL EROSION AND SEDIMENT CONTROL DEVICE LOCATION, DESCRIPTIONS, NOTES AND DETAILS INCLUDING CONCRETE WASHOUT STATION INSTRUCTIONS.
- 12. BUILDING PERMITS ARE REQUIRED FOR ALL RETAINING WALLS 4 FEET IN HEIGHT OR GREATER AND THE WALLS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER WITH DESIGN REVIEWED AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
- 13. A 4 FOOT SAFETY RAILING IS REQUIRED ATOP ALL WALLS 30" IN HEIGHT OR GREATER.

LEGEND:





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SQUARE

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 David Nach DAVID NASH, PE 21836 **04-04-2**2

Lice**nse No.**

QUALITY ASSURANCE/CONTROL DATE ISSUE 4-4-22 PERMIT SET PROJECT TEAM DATA DESIGNED: DMS/DJN DRAWN:

C-5.0

PROJECT NO:

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EROSION CONTROL GENERAL NOTES:

- 1. NO LAND DISTURBING ACTIVITY SHALL OCCUR UNTIL A GRADING PERMIT HAS BEEN ISSUED FROM THE
- BEST MANAGEMENT PRACTICES (BMP'S) REFER TO EROSION AND SEDIMENT CONTROL PRACTICES DEFINED BY THE MPCA PROTECTING WATER QUALITY IN URBAN AREAS AND THE MINNESOTA CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PLANNING HANDBOOK.
- 3. ALL BMP'S SELECTED SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND
- 4. ALL WORK AND MATERIALS SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED PLANS. AN' NATION FROM THE APPROVED PLANS SHALL REQUIRE WRITTEN APPROVAL FROM THE ENGINEER OF
- 5. A COPY OF THESE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. 6. THE BOUNDARIES OF THE LAND DISTURBANCE LIMITS SHOWN ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. NO DISTURBANCE ALLOWED BEYOND THE DISTURBED
- . WHEREVER POSSIBLE, PRESERVE THE EXISTING TREES, GRASS, AND OTHER VEGETATIVE COVER TO
- 8. ESTABLISH A PERMANENT VEGETATIVE COVER ON ALL EXPOSED SOILS WHERE LAND IS COMING OUT OF AGRICULTURAL PRODUCTION. PLANT AS SOON AS POSSIBLE TO ESTABLISH DENSE GRASS FILTER PRIOR TO CONSTRUCTION AND TO MINIMIZE WEED GROWTH.
- ALL TREES NOT LISTED FOR REMOVAL SHALL BE PROTECTED. DO NOT OPERATE EQUIPMENT WITHIN THE DRIPLINE, ROOT ZONES OR WITHIN TREE PROTECTION FENCE AREAS.
- . ALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) SHALL BE INSTALLED AND IN OPERATION PRIOR TO LAND DISTURBANCE ACTIVITIES AND THEY SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR EROSION HAS PASSED.
- 11. SILT FENCE IS REQUIRED AT DOWN GRADIENT PERIMETER OF DISTURBED AREAS AND STOCKPILES. PROTECT ADJACENT WATERBODIES AND ADJACENT PROPERTIES FROM SEDIMENTATION AND STORM
- 12. THE BMP'S SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE THE PERMITTEE CONTRACTOR SHALL ANTICIPATE THAT MORE BMP'S WILL BE NECESSARY TO ENSURE EROSION AND SEDIMENT CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONSTRUCTION ACTIVITIES AND/OR CLIMATIC EVENTS AND TO PROVIDE ADDITIONAL BMP'S OVER AND ABOVE THE MINIMUM REQUIREMENTS SHOWN ON THE PLANS, AS MAY BE NEEDED TO PROVIDE EFFECTIVE PROTECTION OF WATER AND SOIL RESOURCES.
- 13. THE BMP'S SHALL BE INSPECTED DAILY BY THE PERMITTEE/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. SILT FENCES SHALL BE CLEANED OR REPLACED AT SEDIMENT BUILDUP OF 1/3 OF THE FENCE HEIGHT.
- 14. LAND DISTURBING ACTIVITIES SHALL OCCUR IN INCREMENTS OF WORKABLE SIZE SUCH THAT ADEQUATE BMP CONTROL CAN BE PROVIDED THROUGHOUT ALL PHASES OF CONSTRUCTION. THE SMALLEST PRACTICAL AREA SHALL BE EXPOSED OR OTHERWISE DISTURBED AT ANY ONE TIME.
- 15. OPERATE TRACK EQUIPMENT (DOZER) UP AND DOWN EXPOSED SOIL SLOPES ON FINAL PASS. LEAVIN CK GROOVES PERPENDICULAR TO THE SLOPE. DO NOT BACK-BLADE. LEAVE A SURFACE ROUGH TO MINIMIZE EROSION.
- 16. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED FROM EROSION WITHIN 7 DAYS OF SUBSTANTIAL COMPLETION OF GRADING IN THAT AREA. TEMPORARY SEED AND MULCH SHALL COVE ALL EXPOSED SOILS IF GRADING COMPLETION IS DELAYED LONGER THAN 7 DAYS. PERMANENT SEED AND MULCH OR SOD IS REQUIRED WITHIN 3 DAYS OF COMPLETION OF FINAL GRADING. 17. GENERAL TEMPORARY SEED SHALL BE MN STATE SEED MIX 22-112 @ 40 LBS. PER ACRE OR APPROVED EQUAL. PERMANENT SEED SHALL BE MN STATE SEED MIX 25-151 @ 120 LBS. PER
- ACRE OR APPROVED EQUAL. (PLANTING DATES PER MNDOT SEED MIX MANUAL) MULCH SHALL BE MNDOT TYPE 1 (CLEAN OAT STRAW) @ 2 TONS PER ACRE AND DISK ANCHORED IN PLACE OR APPROVED EQUAL. FERTILIZER SHALL BE 10-10-10 NPK PER ACRE (UNLESS P RESTRICTIONS APPLY) AND INCORPORATED INTO THE SEED BED.
- 18. ALL TEMPORARY FROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- 19. ALL CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER, AND SANITARY WASTE MUST BE PROPERLY MANAGED AND COMPLY WITH THE MPCA AND THE CITY OF BLOOMINGTON RULES AND REQUIREMENTS.

- 1. IF UTILITY INSTALLATION WORK ENCOUNTERS GROUNDWATER. THE CONTRACTOR SHALL PROVIDE A PLAN TO THE CITY AND PROJECT ENGINEER FOR REVIEW. THE PLAN MUST BE SUBMITTED TO THE CITY FOR APPROVAL AT LEAST 10 DAYS PRIOR TO DISCHARGING INTO RECEIVING WATERS. THE PLAN AT MINIMUM SHALL INCLUDING A DEWATERING SYSTEM, WATER ROUTING, STORAGE, AND DISCHARGE LOCATION. THE DEWATERING PLAN MUST ENSURE THAT DISCHARGE WATER IS FREE OF SEDIMENT AND TURBID WATER IN ACCORDANCE WITH STATE AND LOCAL PERMIT REQUIREMENTS.
- 2. IF ANY TEMPORARY DEWATERING IS REQUIRED ONSITE THE CONTRACTOR SHALL DISPOSE OF STORMWATER OR GROUND WATER BY USE OF PUMPS AND HOSES TO ACCEPTABLE DISCHARGE POINTS APPROVED BY
- ANY ACCUMULATED SEDIMENT ALONG EXISTING CURB AND GUTTER THAT HAS COLLECTED AS A RESULT OF DISCHARGING DEWATERING HOSES SHALL BE IMMEDIATELY REMOVED AND PROPERLY DISPOSED OF AFTER EACH DISCHARGING EVENT.

FILTRATION BMP NOTES:

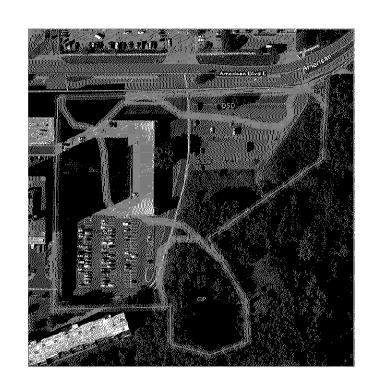
- INSTALLATION OF INFILTRATION/FILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL EVENT. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY
- 2. EXCAVATION OF INFILTRATION AREAS SHALL BE COMPLETED USING A BACKHOE WITH A TOOTHED BUCKET. 3. THE BOTTOM EXCAVATION SURFACE OF INFILTRATION AREAS SHALL BE LEVEL WITHOUT DIPS OR SWALES.
- 4. DURING CONSTRUCTION, STORM WATER MUST BE ROUTED AROUND INFILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED AND TRIBUTARY SURFACES ARE CLEANED OF SEDIMENT
- 5. ENGINEERED SOIL SHALL REMAIN UNCONTAMINATED (NOT MIXED WITH OTHER SOIL) BEFORE AND DURING

EROSION CONTROL SCHEDULE:

1. PRIOR TO ANY CONSTRUCTION OR DEMOLITION, SILT FENCE AND FILTERS SHALL BE INSTALLED AS

CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS INDICATED ON THIS EROSION CONTROL PLAN AND ANY ADDITIONAL REQUIRED BASED ON MEANS, METHODS AND SEQUENCES OF CONSTRUCTION 3. ALL EROSION CONTROL INSTALLATIONS SHALL REMAIN IN PLACE AND BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR UNTIL THE SITE HAS BEEN RE-VEGETATED. CONTRACTOR MAY REMOVE NECESSARY SILT FENCING/FILTERS TO CONSTRUCT ROADWAYS, WHILE MAINTAINING ADEQUATE EROSION CONTROL IN

4. SUFFICIENT TOPSOIL SHALL BE STOCKPILED TO ALLOW FOR THE REPLACEMENT OF 6'' OF TOPSOIL FOR DISTURBED AREAS TO BE RE-VEGETATED. 5. SOIL COMPACTION SHALL BE MINIMIZED IN PROPOSED PERVIOUS AREAS ONSITE AND AVOID ALTOGETHER N PROPOSED INFILTRATION BASINS. SOIL SURFACES IN PROPOSED PERVIOUS AREAS COMPACTED DUF CONSTRUCTION SHALL BE DECOMPACTED THROUGH SOIL AMENDMENT OR DEEP RIPPING TO AN 18" DEPTH. 6. THE CONTRACTOR SHALL SCHEDULE SITE GRADING, UTILITY INSTALLATION AND PAVEMENT CONSTRUCTION SO THAT THE GENERAL SITE CAN BE MULCHED AND RE-SEEDED SOON AFTER DISTURBANCE. AREAS THAT WILL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC SHALL BE SEEDED (MN STATE SEED MIX 22-112 @ 40 LBS/AC AND MULCHED OR SODDED WITHIN SEVEN (7) DAYS OF BEING DISTURBED.



WEB SOIL SURVEY MAP

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
D50	Dorset-Two Inlets complex, 12 to 18 percent slopes	0.9	10.3
GP	Pits, gravel-Udipsamments complex	1.3	15.4
L32F	Hiswick loamy sand, 20 to 40 percent slopes	3.8	44.1
U4 ∆	Urban land: Udipsamments (cut and fill land) complex, 0 to 2 percent slopes	2.6	90.2
Totals for Area of Interest		8.7	100.0

WEB SOIL SURVEY LEGEND

SEDIMENT CONTROL PRACTICES

- 1. THE CONTRACTOR MUST EMPLOY SEDIMENT CONTROL PRACTICES AS NECESSARY TO MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS. a. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS THAT ARE DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS
- APPROPRIATE FOR SITE CONDITIONS. b. IF THE DOWN GRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), THE CONTRACTOR MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES AS
- SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS AND BE LOCATED UPGRADIENT OF ANY BUFFER ZONES. THE PERIMETER SEDIMENT CONTROL PRACTICE MUST BE IN PLACE BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED IN ACCORDANCE WITH PART IV.G. A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY PERIMETER CONTROL REQUIREMENTS IN THIS PART EXCEPT WHEN WORKING ON A SHORELINE AND BELOW THE WATERLINE. IN THOSE CASES, A FLOATING SILT CURTAIN CAN BE USED AS A PERIMETER CONTROL PRACTICE IF THE FLOATING SILT CURTAIN IS INSTALLED AS CLOSE TO SHORE AS POSSIBLE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G. INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, AN UPLAND PERIMETER CONTROL PRACTICE MUST BE INSTALLED IF EXPOSED SOILS STILL DRAIN TO THE SURFACE WATER.
- 3. THE CONTRACTOR SHALL RE-INSTALL ALL SEDIMENT CONTROL PRACTICES THAT HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES. SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. THE CONTRACTOR SHALL COMPLETE ANY SHORT-TERM ACTIVITY THAT REQUIRES REMOVAL OF SEDIMENT CONTROL PRACTICES AS QUICKLY AS POSSIBLE. THE CONTRACTOR MUST RE-INSTALL IT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
- 4. ALL STORM DRAIN INLETS MUST BE PROTECTED BY APPROPRIATE BMPS DURING ONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED BY THE CONTRACTOR OR THE JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/TOWNSHIP/MNDOT ENGINEER). THE CONTRACTOR MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP
- 5. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER.
- 6. WHERE VEHICLE TRAFFIC LEAVES ANY PART OF THE SITE (OR ONTO PAVED ROADS WITHIN THE SITE):
- a. THE CONTRACTOR MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE. EXAMPLES OF VEHICLE TRACKING BMPS INCLUDE (BUT ARE NOT LIMITED TO) ROCK PADS, MUD MATS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT
- b. THE CONTRACTOR MUST USE STREET SWEEPING IF SUCH VEHICLE TRACKING IMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET (SEE PART IV.E.5.D.).
- 7. THE CONTRACTOR MUST INSTALL TEMPORARY SEDIMENTATION BASINS AS REQUIRED
- 8. THE CONTRACTOR MUST MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.
- 9. THE CONTRACTOR MUST PRESERVE A 50 FOOT NATURAL BUFFER OR (IF A BUFFER IS INFEASIBLE ON THE SITE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS. THE CONTRACTOR IS /ARE NOT REQUIRED TO ENHANCE THE QUALITY OF THE VEGETATION THAT ALREADY EXISTS IN THE BUFFER OR PROVIDE VEGETATION IF NONE EXIST. HOWEVER, CONTRACTOR CAN IMPROVE THE NATURAL
- 10. IF THE CONTRACTOR INTEND TO USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ON THE PROJECT SITE. THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
- IE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORMWATER IS DIRECTED SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR FILTRATION OR SETTLEMENT OF
- b. CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION. AND TO THE EXPECTED TURBIDITY, PH, AND FLOW RATE OF STORMWATER FLOWING INTO THE CHEMICAL TREATMENT SYSTEM OR AREA.
- c. CHEMICALS MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, AND WITH DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR PROVIDER/SUPPLIER OF

WINTER STABLIZATION:

TO LEAVING THE SITE AT WINTER SHUT DOWN.

- GRADING CONTRACTOR REQUIREMENTS IN THE CASE WHERE THE ONSET OF WINTER DOES NOT ALLOW FOR COMPLETION OF MASS GRADING AND FINAL SOIL STABLIZATION IN THE FALL:

 1. MASS GRADING ACTIVITIES SHALL BE PLANNED AND PHASED IN A MANNER TO AVOID ANY UNNECESSARY SOIL DISTURBANCE PRIOR TO WINTER SHUT DOWN.
- ALL FINAL GRADED AREAS SHALL BE STABILIZED PERMANENTLY BY GRADING CONTRACTOR WITH SEEDING, MULCHING, BLANKET, ETC. IN ACCORDANCE WITH PLANS PRIOR TO CONTRACTOR LEAVING THE SITE AT WINTER SHUT DOWN. 3. THE GRADING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL TEMPORARY OR INCOMPLETE GRADING AREAS INCLUDING ALL STOCKPILES ARE STABILIZED WITH

TEMPORARY SEEDING (MN STATE SEED MIX 22-112 @ 40/AC, MULCH (MNDOT TYPE 1) BEFORE LEAVING THE SITE AT WINTER SHUT DOWN.

4. ALL SIGNIFICANT DRAINAGE SWALES (TEMPORARY OR PERMANENT) SHALL BE STABILIZED WITH MNDOT CATEGORY 3 EROSION CONTROL BLANKET BY GRADING CONTRACTOR PRIOR

- 1. THE CONTRACTOR MUST ENSURE THAT A TRAINED PERSON (AS IDENTIFIED IN ITEM 2221.2.b) WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. FOLLOWING AN INSPECTION THAT OCCURS WITHIN 24 HOURS AFTER A RAINFALL EVENT, THE NEXT INSPECTION MUST BE CONDUCTED WITHIN SEVEN (7) DAYS AFTER THE RAINFALL EVENT.
- 2. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED WITHIN 24 HOURS IN WRITING AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP IN ACCORDANCE WITH PART III.E. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

INSPECTIONS AND MAINTENANCE

- a.DATE AND TIME OF INSPECTIONS b. NAME OF PERSON(S) CONDUCTING INSPECTIONS c. FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED d. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY
- COMPLETING MAINTENANCE ACTIVITIES) e DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCH (0.5 INCHES) IN 24 HOURS, RAINFALL AMOUNTS MUST BE OBTAINED BY A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN 1 MILE OF YOUR LOCATION OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR
- INSPECTION, A RECORD OF ALL POINTS OF THE PROPERTY FROM WHICH THERE IS A DISCHARGE MUST BE MADE, AND THE DISCHARGE SHOULD BE DESCRIBED (LE., COLOR, ODOR, FLOATING, SETTLED, OR SUSPENDED SOLIDS, FOAM, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) AND g. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED WITHIN SEVEN (7) CALENDAR DAYS

f. IF ANY DISCHARGE IS OBSERVED TO BE OCCURRING DURING THE

3.INSPECTION FREQUENCY ADJUSTMENT

SUMMARIES

- a. WHERE PARTS OF THE PROJECT SITE HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, THE CONTRACTOR MAY REDUCE INSPECTIONS OF THE AREAS WITH PERMANENT COVER TO
- ONCE PER MONTH. b. WHERE CONSTRUCTION SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AREAS AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE, THE SITE MUST BE INSPECTED DURING NON-FROZEN GROUND CONDITIONS AT LEAST ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FOLLOWING THE TWELFTH MONTH OF PERMANENT COVER AND NO CONSTRUCTION ACTIVITY, INSPECTIONS MAY BE TERMINATED UNTIL CONSTRUCTION ACTIVITY IS ONCE AGAIN INITIATED UNLESS THE CONTRACTOR IS/ARE NOTIFIED IN WRITING BY THE MPCA THAT EROSION ISSUES HAVE BEEN DETECTED AT THE SITE AND INSPECTIONS NEED TO RESUME. c. WHERE WORK HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND OCCURS AT THE SITE OR 24 HOURS PRIOR TO RESUMING CONSTRUCTION,
- 4. THE CONTRACTOR IS/ARE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS, UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT OR HE PROJECT HAS UNDERGONE FINAL STABILIZATION, AND HAS NOT BEEN
- 5. THE CONTRACTOR MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS DURING ALL ROUTINE AND POST-RAINFALL EVENT INSPECTIONS. ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED BELOW. THE CONTRACTOR MUST INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS
- a. ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED. OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF (1/2) OF THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- b. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES ONE HALF (1/2) THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS (SEE PART IV.D.).
- C. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION DURING EACH INSPECTION. THE CONTRACTOR MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS, AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED . THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN 7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. THE CONTRACTOR SHALL USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. THE CONTRACTOR IS/ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EMDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY, OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. d. STREETS AND OTHER AREAS ADJACENT TO THE PROJECT MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE ACCUMULATIONS OF SEDIMENT. IF SEDIMENT IS PRESENT, IT MUST BE REMOVED IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREETS COULD BE WASHED INTO STORM SEWERS BY THE NEXT RAIN AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC
- 6. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITY IS REACHING THE INFILTRATION AREA. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE INFILTRATION AREA.

IMPAIRED WATER SPECIAL REQUIREMENT

HE MINNESOTA RIVER IS CLASSIFIED AS AN IMPAIRED VATER. THUS, THE FOLLOWING REQUIREMENTS APPLY FOR PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES.

PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME. ALSO, A MANDATORY STORMWATER POLLUTION PREVENTION ALSO, A MANDATORY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REVIEW IS REQUIRED BY THE MPCA IF THE PROJECT WILL DISTURB OVER 50 ACRES AND HAS A DISCHARGE POINT ON THE PROJECT WITHIN 1 MILE (AERIAL RADIUS MEASUREMENT) OF, AND FLOWS TO THE IMPAIRED WATER. OWNERS MUST SUBMIT THE APPLICATION FOR COVERAGE AND THE SWPPP AT LEAST 30—DAYS BEFORE THE CONSTRUCTION START DATE. THE SWPPP CAN BE ATTACHED ELECTRONICALLY WHEN USING THE ONLINE APPLICATION.

POLLUTION PREVENTION

MANAGEMENT MEASURES THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MANAGEMENT

. STORAGE, HANDLING, AND DISPOSAL OF CONSTRUCTION PRODUCTS, MATERIALS, AND WASTES: THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING TO MINIMIZE THE EXPOSURE TO STORMWATER OF ANY OF THE PRODUCTS, MATERIALS, OR WASTES. PRODUCTS OR WASTES WHICH ARE FITHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER ARE NOT HELD TO THIS REQUIREMENT:

- a. BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE
- b. PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- c. HAZARDOUS MATERIALS, TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS AND ACIDS) MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE, RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN, R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.
- d. SOLID WASTE MUST BE STORED, COLLECTED AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINN. R. CH. 7035.
- e. PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R. CH. 7041.
- P. FUELING AND MAINTENANCE OF EQUIPMENT OR VEHICLES; SPILL PREVENTION AND RESPONSE: THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE. THE CONTRACTOR MUST CONDUCT FUELING IN A CONTAINED AREA UNLESS INFEASIBLE. THE CONTRACTOR MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALI TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. THE CONTRACTOR MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 💲 115.061, USING DRY CLEAN
- S. VEHICLE AND EQUIPMENT WASHING: IF THE CONTRACTOR WASH THE EXTERIOR OF VEHICLES OR EQUIPMENT ON THE PROJECT SITE, WASHING MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF FROM THE WASHING AREA MUST BE CONTAINED IN A SEDIMENT BASIN OF OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE DETERGENTS, OR SOLVENTS. NO ENGINE DEGREASING IS ALLOWED ON SITE.
- 4. CONCRETE AND OTHER WASHOUTS WASTE: THE CONTRACTOR MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. THE LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND, AND THE CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNDEE FROM THE WASHOUT OPERATIONS OF AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA RULES, A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.

FINAL STABLIZATION

SEDIMENT CONTROL BMPS PRIOR TO

"HOMEOWNER FACT SHEET" TO

THE HOMEOWNER.

THE CONTRACTOR MUST ENSURE FINAL STABILIZATION OF THE SITE, FINAL STABILIZATION IS NOT COMPLETE UNTIL ALL REQUIREMENTS OF ITEMS 13.2-13.7 BELOW 13.2 PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTING THE NOT. VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FIN GROWTH, VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.

ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS DESIGNED. 13.4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOTICE OF TERMINATION (NOT).

13.5 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND

13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY

13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S

SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT.

ACTIVE SWPPP LEGEND OCT NOV DEC JAN FEB CONSTRUCTION SEQUENCE APR MAY JUN JUL AUG SEP MULCH BERM FIBER ROLLS / MULCH SOCKS SILT FENCE TEMPORARY MULCH COVER TEMPORARY HYDROMULCH EROSION CONTROL BLANKET ROCK DRIVEWAY / ROCK PADS INLET PROTECTION DEVICES PAVEMENT (DRIVEWAY/ROADS) STOCKPILES NOTE: CONTRACTOR, GENERAL CONTRACTOR OR SWPPP INSPECTOR TO COMPLETE TABLE AS GRADING PROGRESSES

SEDIMENT BARRIERS SILT FENCE (MnDOT 3886) CURB LOG ROCK WEEPER SEDIMENT LOGS

INLET PROTECTION DEVICES

I. WIMCO (MnDOT TYPE A & C)

ANTI-TRACKING CONTROL

I. 2" CRUSHED CLEAR ROCK (LAND DEVELOPMENT)

. MN STATE SEED MIX 21-112 (WINTER WHEAT COVER CROP) 2. MN STATE SEED MIX 22-III (OATS COVER CROP)

TEMPORARY SEED MIX

PERMANENT SEED MIX/STABILIZATION I. MN STATE SEED MIX 25-151 INFRASÀFE STORM DRAIN/CÚLVERT (RESIDENTIAL TURF) SOD

STABILIZATION BMP'S
I. EROSION CONTROL BLANKET MnDOT CATEGORY

BY TRUCK WITH A MOBILE WASHOUT SYSTEM PROVIDED AND COMPLETED BY THE CONCRETE CONTRACTOR.

CONCRETE WASHOUT IS DONE TRUCK

PERTINENT PERMITS

CITY OF BLOOMINGTON GRADING PERMIT NPDES

CONSTRUCTION SEQUENCE

THE INTENDED SEQUENCING OF MAJOR SITE CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- 1. INSTALL STABILZED ROCK CONSTRUCTION ENTRANCE. 2. INSTALL SILT FENCE AROUND SITE, AS SHOWN ON PLAN.
- 3. INSTALL ORANGE CONSTRUCTION FENCE AROUND EXISTING TREES TO BE PROTECTED. 4. CLEAR AND GRUB SITE.
- 5. STRIP AND STOCKPILE TOPSOIL. ROUGH GRADING OF SITE. 7. STABILIZE DENUDED AREAS AND STOCKPILES.
- 8. INSTALL SANITARY SEWER, WATER MAIN, STORM SEWER AND SERVICES. 9. INSTALL SILT FENCE/INLET PROTECTION AROUND CATCH BASINS.
- 10. INSTALL STREET SECTION. 11. INSTALL CURB AND GUTTER
- 12. BITUMINOUS ON STREETS. 13. INSTALL SMALL UTILITIES (GAS, ELECTRIC, PHONE, CABLE, ETC.)
- 14. FINE GRADE BOULEVARD, LANDSCAPE AREAS, SEED AND MULCH. 15. REMOVE ACCUMULATED SEDIMENT.
- 16. FINAL GRADE. 17. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD AND LANDSCAPING, REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.

SWPPP BMP QUANTITIES

(PER PLAN): SILT FENCE 271 LF INLET PROTECTION 23 EA ROCK CONSTRUCTION ENTRANCE 1 EA SEED/SOD POST GRADING AREA 0.52 AC

EROSION CONTROL RESPONSIBLE PARTIES:

OWNER/DEVELOPER: KAEDING & RON CLARK

233 PARK AVE S. STE 300

MINNEAPOLIS, MN 55415

DNASH@ALLIANT-INC.COM

SWPPP INSPECTION:

ENGINEER: DAVE NASH LISCENSE NO. 40922 ALLIANT ENGINEERING, INC.

CONTRACTOR:

ALLIANT ENGINEERING

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MINNESOTA David nach DAVID NASH, PE

04-04-22

License No.

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DATE 4-4-22 | PERMIT SET

DRAWN: PROJECT NO: 190123

DMS/DJN

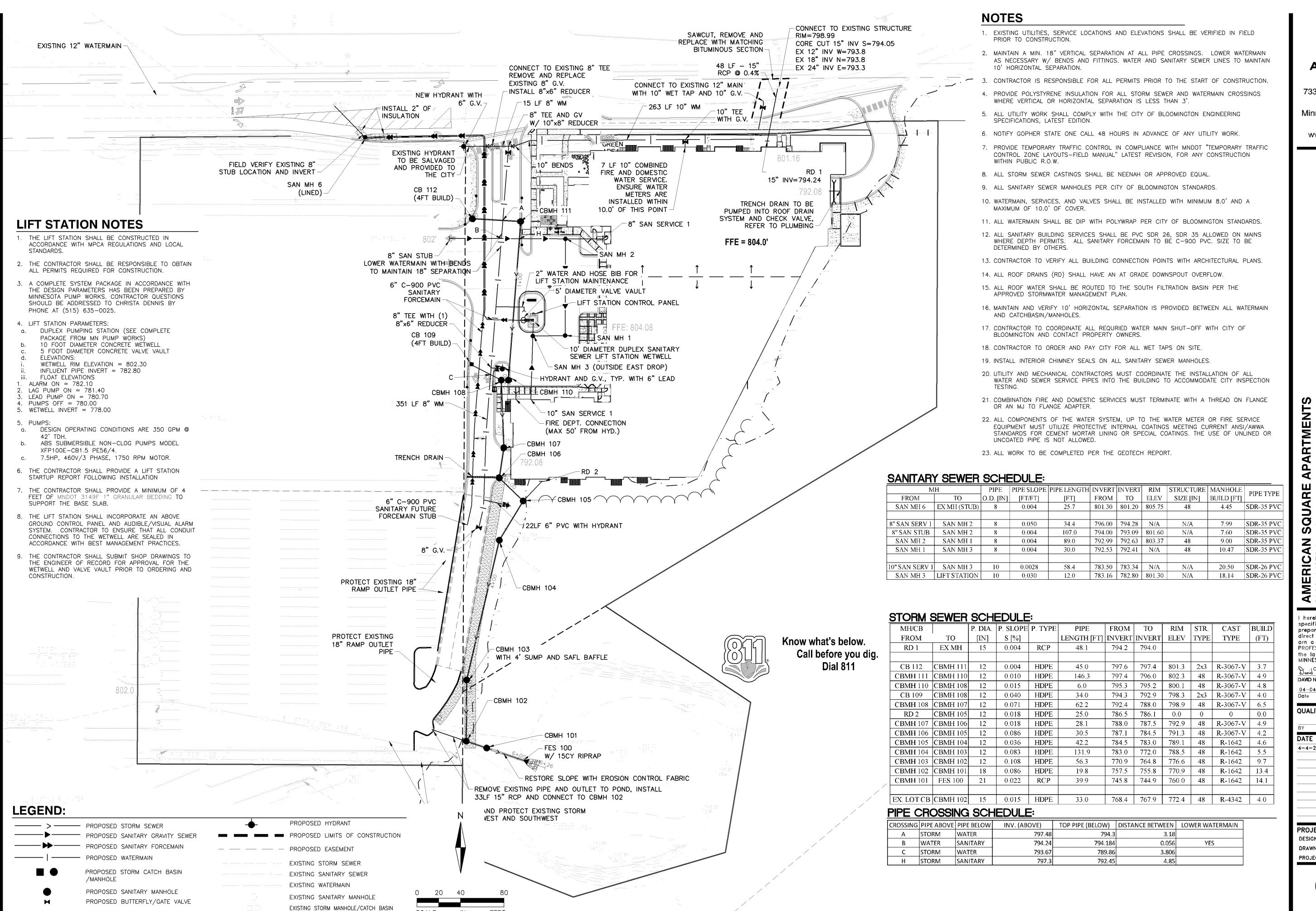
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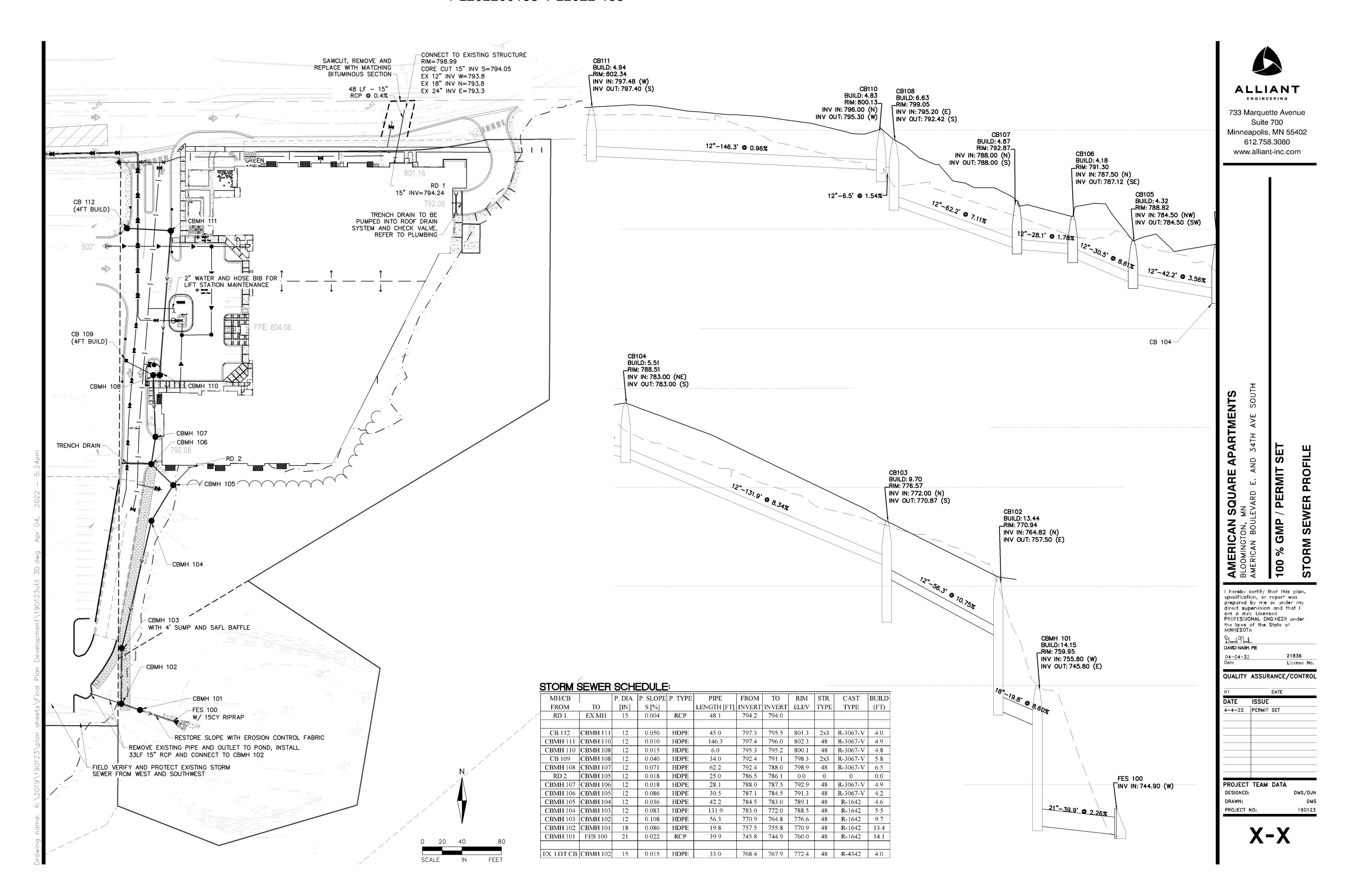
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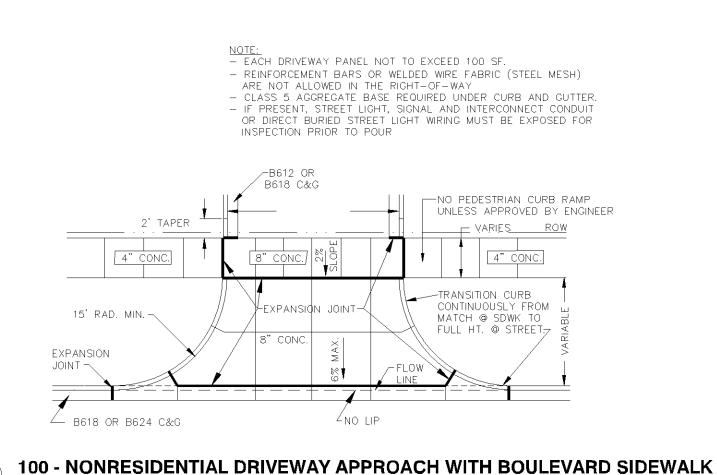
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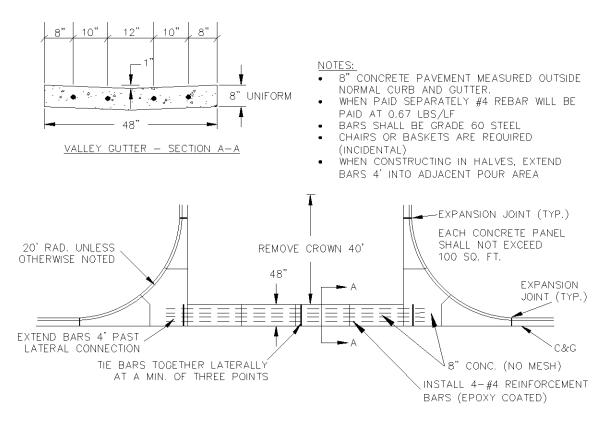
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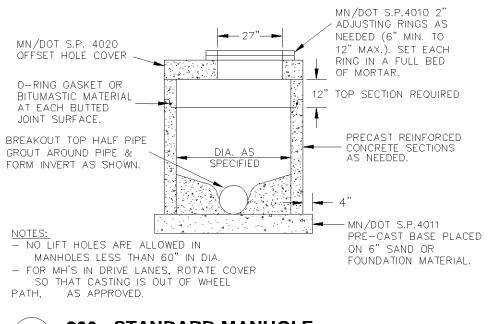


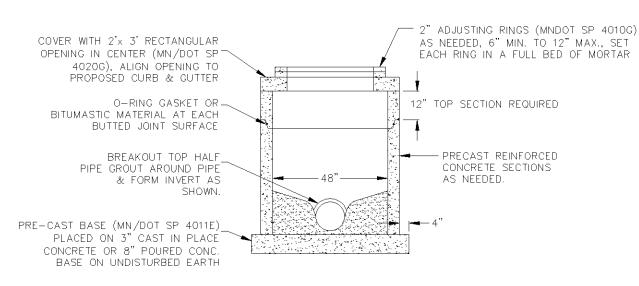


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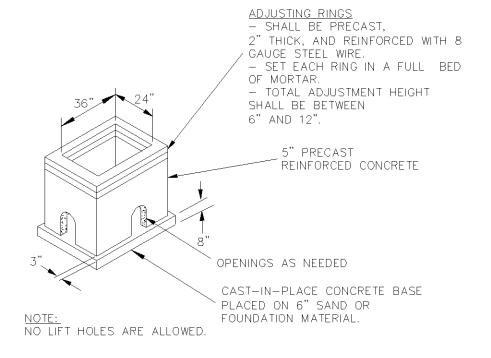




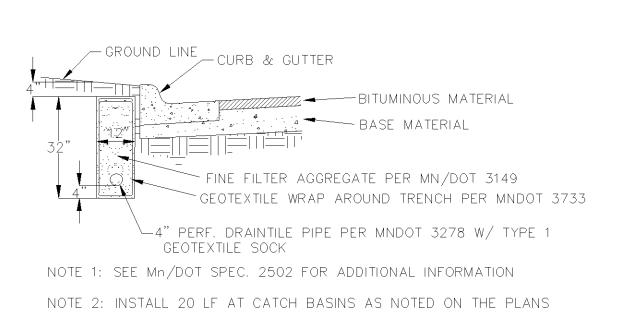




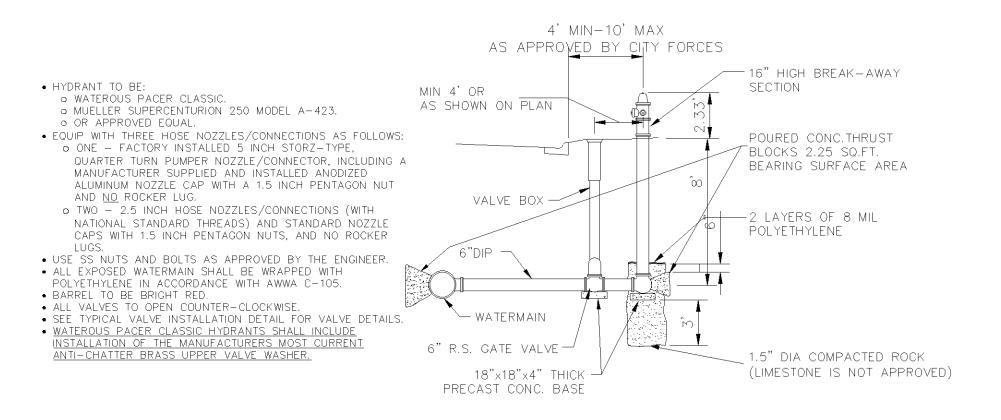




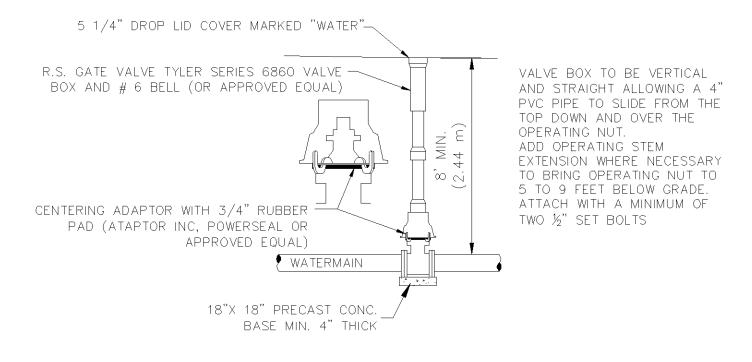




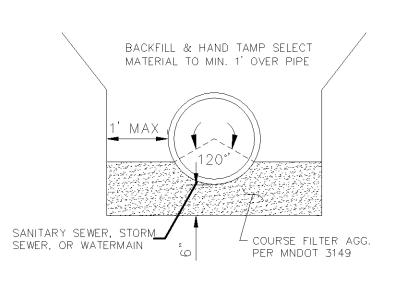




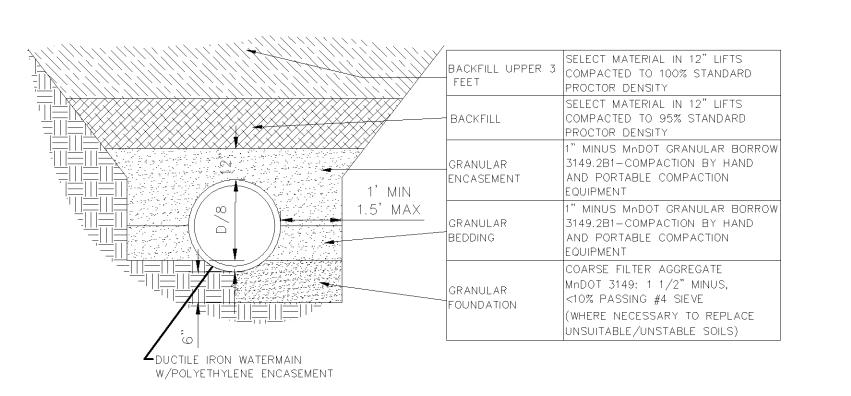




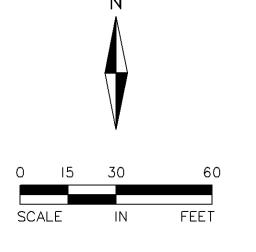














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BLOOMINGTON, MN
AMERICAN BOULEVARD E. AND 34TH AVE SOUTH
3601 AMERICAN BOULEVARD EAST
100 % GMP / PERMIT SET

the laws of the State of
MINNESOTA

DAVID NASH, PE

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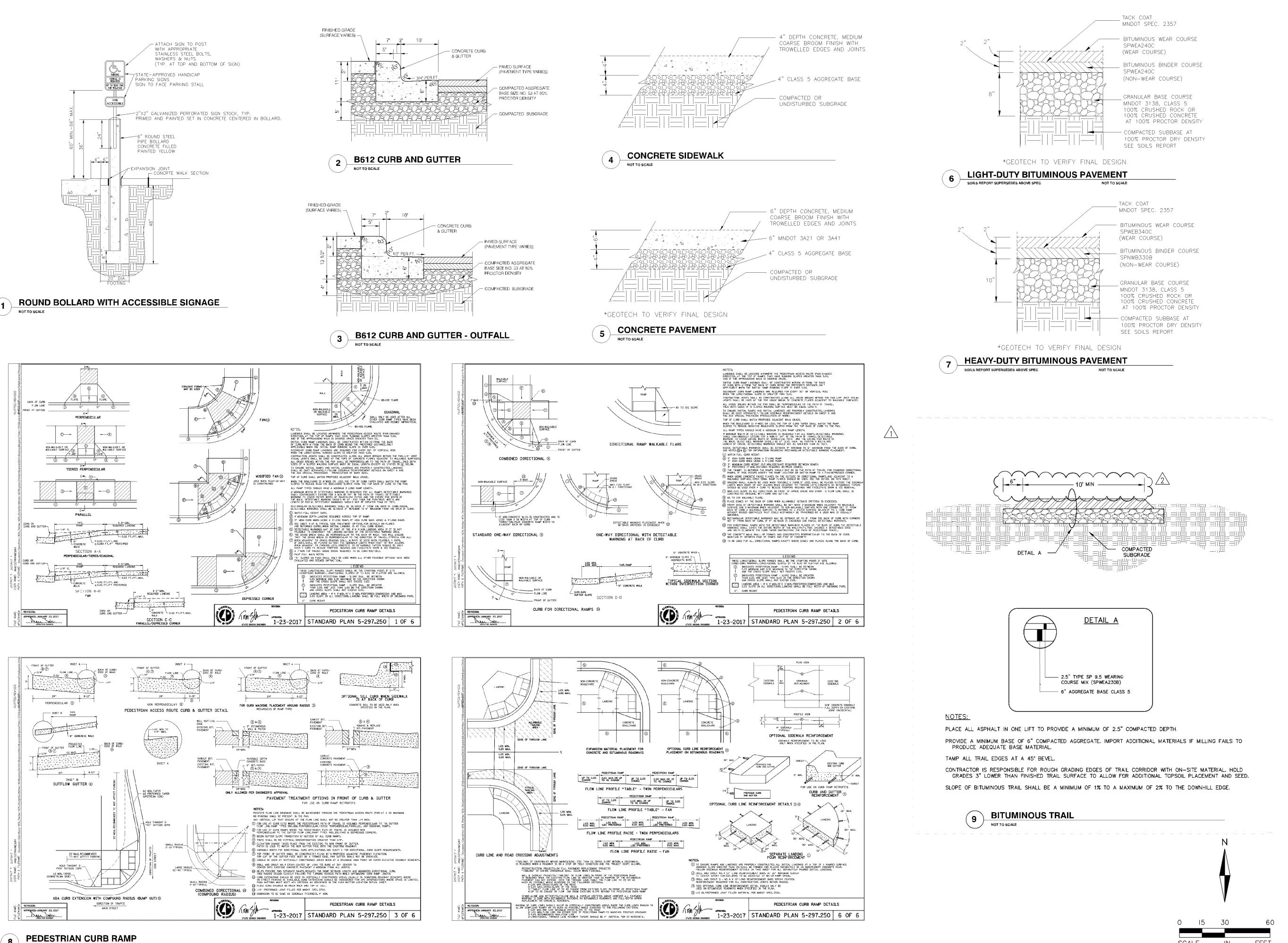
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PROJECT NO: 190123

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1 AMERICAN BOULEVARD EAST

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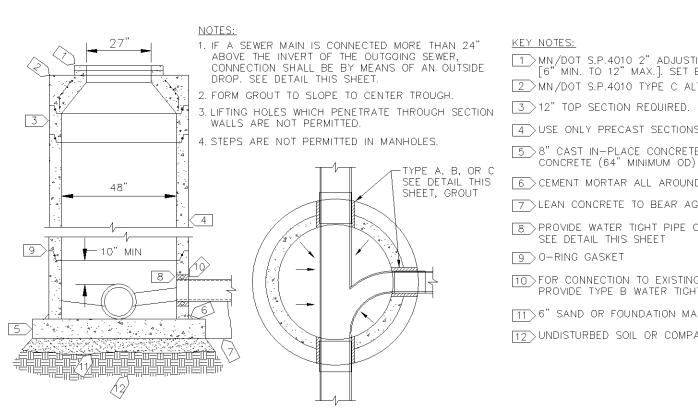
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1 MN/DOT S.P.4010 2" ADJUSTING RINGS AS NEEDED [6" MIN. TO 12" MAX.]. SET EACH RING IN FULL BED OF MORTAR. 2 MN/DOT S.P.4010 TYPE C ALTERNATE SHORT CONE SECTION.

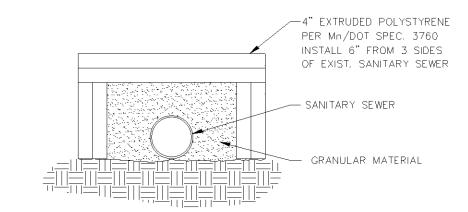
4 USE ONLY PRECAST SECTIONS, NO BRICK OR BLOCK 5>8" CAST IN-PLACE CONCRETE OR 6" PRECAST REINFORCED CONCRETE (64" MINIMUM OD)

7 LEAN CONCRETE TO BEAR AGAINST FIRM UNDISTURBED SOIL

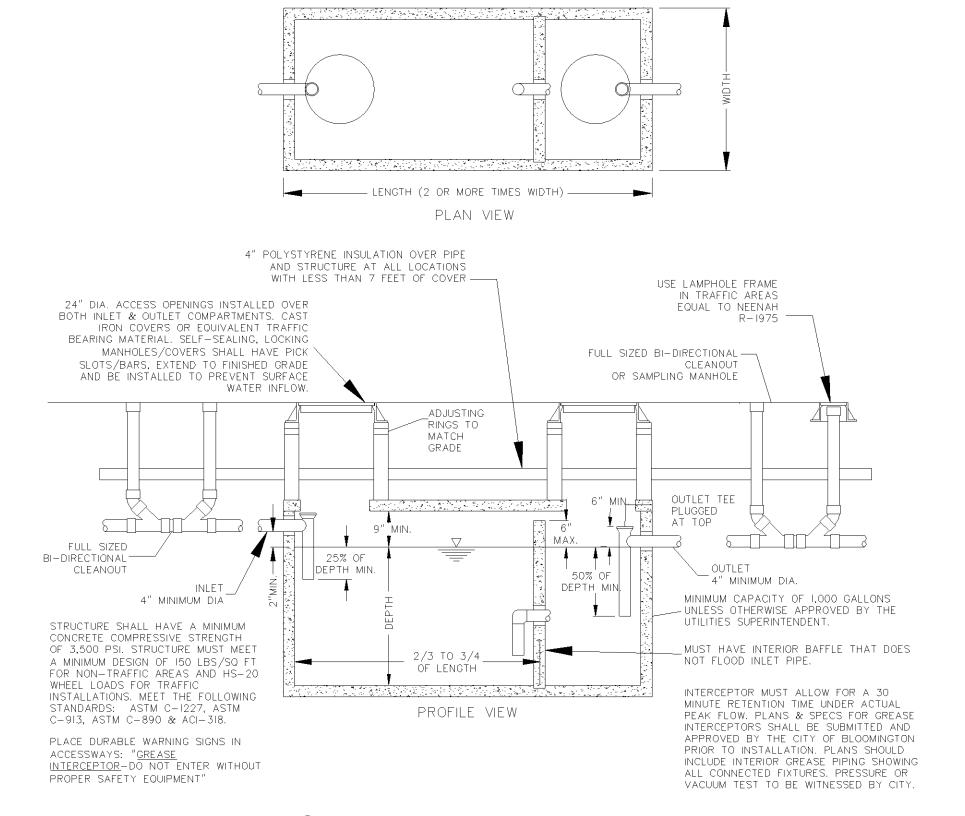
PROVIDE WATER TIGHT PIPE CONNECTIONS
SEE DETAIL THIS SHEET 9 > 0-RING GASKET 10 FOR CONNECTION TO EXISTING MH'S, CORE DRILL OPENING AND PROVIDE TYPE B WATER TIGHT CONNECTOR

11 6" SAND OR FOUNDATION MATERIAL 12 UNDISTURBED SOIL OR COMPACTED SUBGRADE

400 - STANDARD SANITARY SEWER MANHOLE NOT TO SCALE 400 - Std San MH.dwg 6/2015

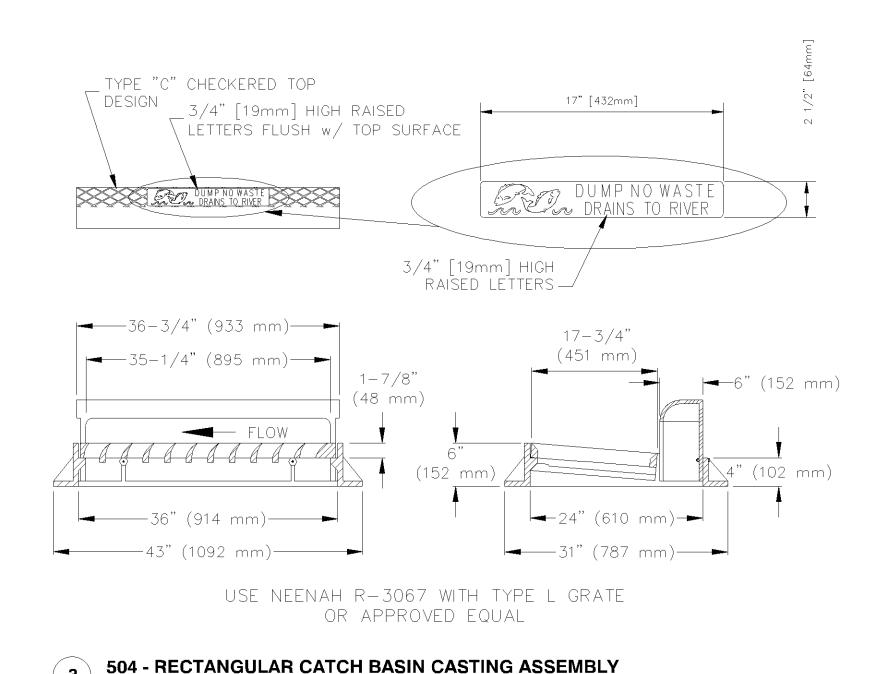


2 411 - SANITARY SEWER INSULATION DETAIL

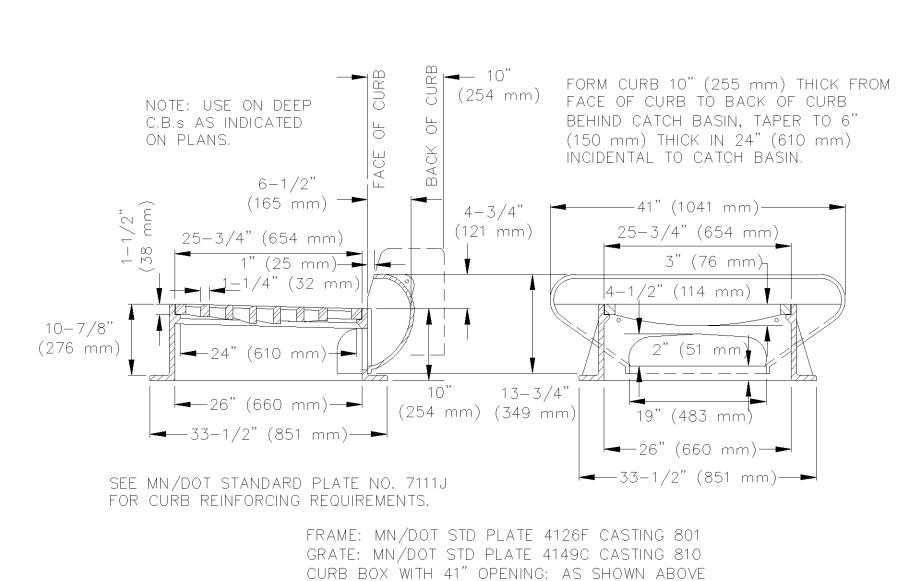


412 - GREASE INTERCEPTOR EXAMPLE

NOT TO SCALE - FOR INFORMATIONAL PURPOSES ONLY 412 - Typical Grease Interceptor.dwg 12/2019

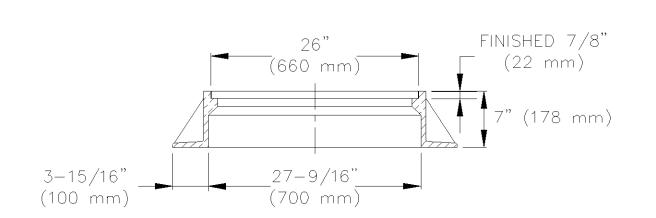


504 - Rect. CB.dwg 5/2015



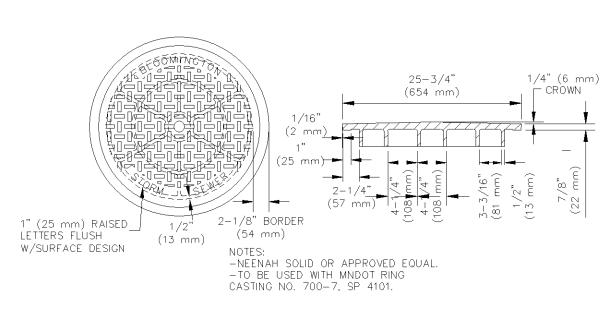
(USE NEENAH R-3250-1 OR APPROVED EQUAL)



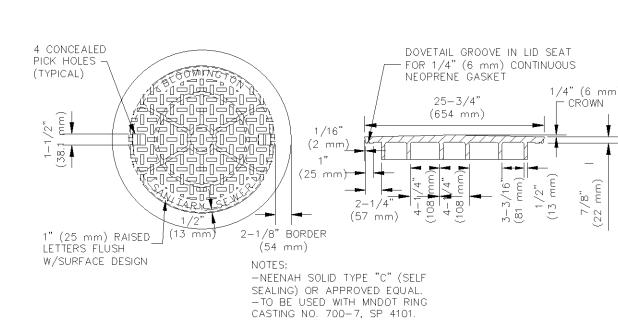


MN/DOT S.P. 4101D CASTING NO. 700-7

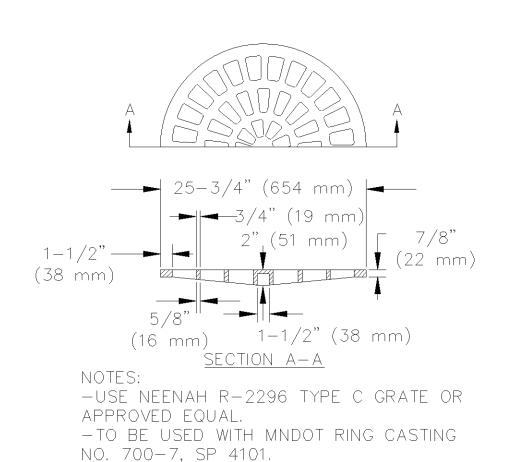
4 503 - RING CASTING FOR MANHOLE 503 - MH Frame.dwg 5/2015



500 - STANDARD STORM SEWER MANHOLE COVER NOT TO SCALE 500 - Storm Cov (Solid).dwg 5/2015



501 - STANDARD SANITARY MANHOLE COVER 501 - Sanitary Cov.dwg 5/2015



502 - RADIAL GRATE STORM MANHOLE COVER 502 - Radial Grate.dwg 4/2009



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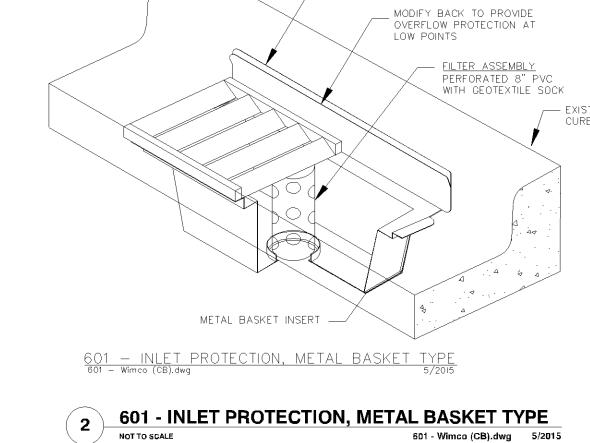
PROJECT TEAM DATA DESIGNED: DMS/DJN DRAWN: PROJECT NO:

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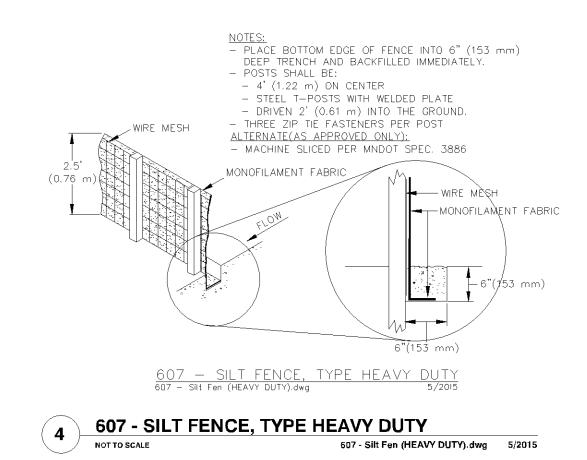
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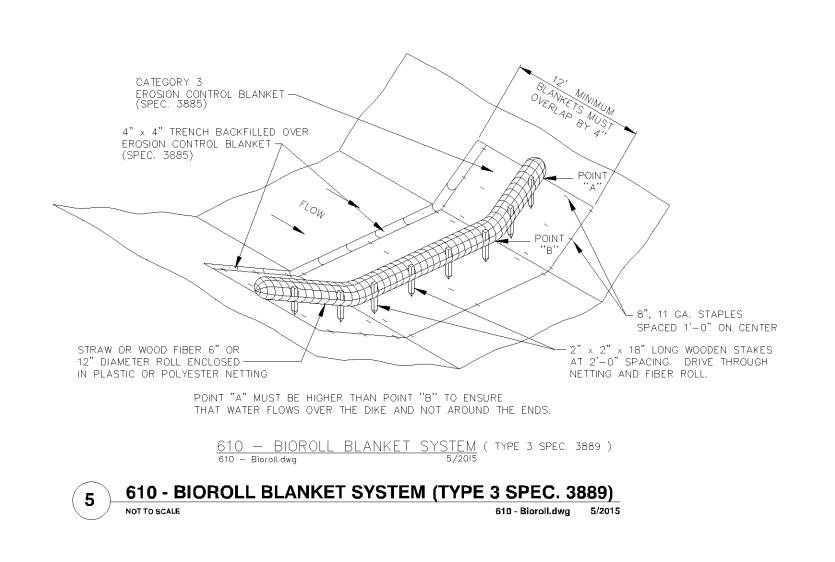
600 - ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS NOT TO SCALE 600 - Rock Const. Ent.dwg 5/2015

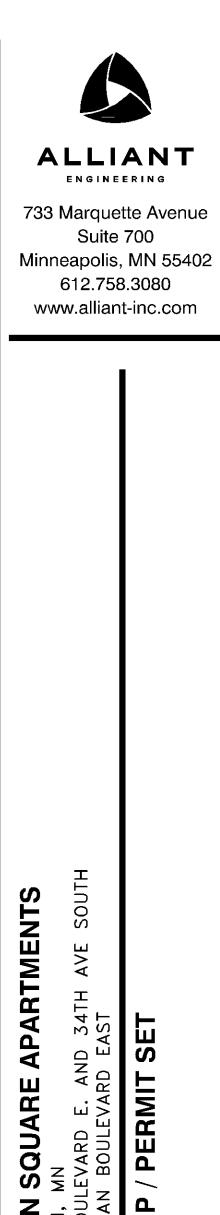


POLYESTER SLEEVE — FILTER ASSEMBLY MANHOLE COVER ASSEMBLY 602 - INLET PROTECTION, MANHOLE COVER ASSEMBLY 5/2015

802 - INLET PROTECTION, MANHOLE COVER ASSEMBLY
NOT TO SCALE 6012 - Wimco (MH).dwg 5/2015







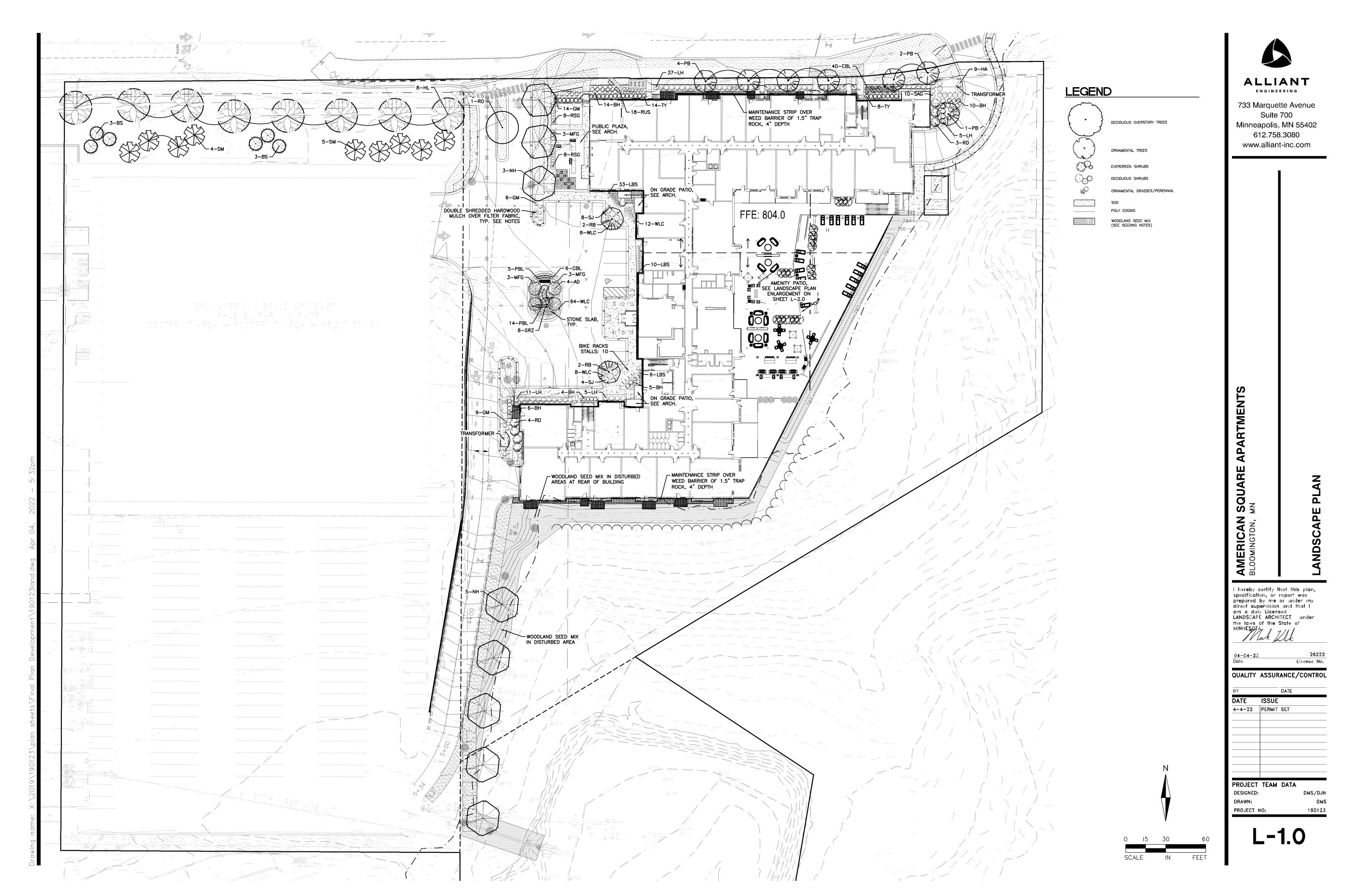
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DAVID NASH, PE 04-04-22 Date Lice**nse No.** QUALITY ASSURANCE/CONTROL

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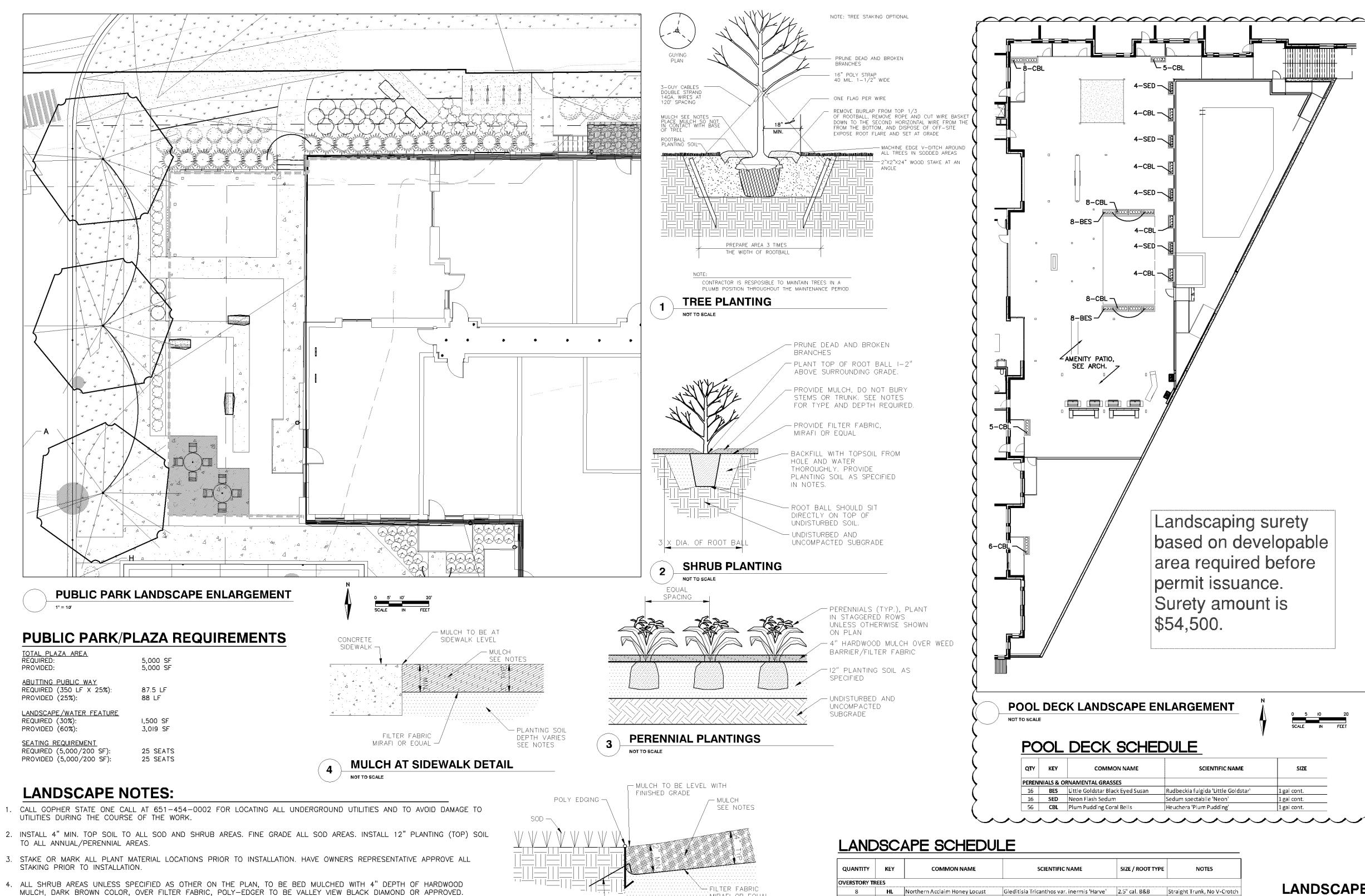
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::MIRAFI OR EQUAL

MULCH AT SOD DETAIL



5. ALL MULCH AND ROCK (BOULDERS, COBBLESTONE, ETC) TO BE APPROVED BY OWNER AND/OR LANDSCAPE ARCHITECT PRIOR

6. INSTALL 4-6" DEPTH SHREDDED HARDWOOD MULCH AROUND ROOT SAUCER OF ALL TREES ISOLATED FROM PLANT BEDS. DO

7. PLANTING SOIL SHALL BE 1:1:1 CONSISTING OF 33% SELECT LOAMY TOPSOIL, 33% PEAT MOSS, 33% PIT RUN SAND.

8. COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. MAKE ALL

9. ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN

13. STAKING AND GUYING OF TREES OPTIONAL: MAINTAIN PLUMBNESS OF TREES FOR DURATION OF WARRANTY PERIOD.

INSTALLATION WITH G.C. SOD AND SHRUB AREAS TO BE ON SÉPARATE ZONES. PROVIDE RAIN SENSOR.

14. SWEEP AND WASH ALL PAVED SURFACES AND REMOVE ALL DEBRIS RESULTING FROM LANDSCAPE OPERATIONS DAILY.

15. SUPPLY DESIGN AND INSTALLATION FOR NEW IRRIGATION SYSTEM WITH 100% COVERAGE OF SOD AND PLANTING AREAS INCLUDING PLANTINGS ON THE POOL DECK (SEE SHEET L-2.0). USE RAINBIRD OR APPROVED EQUAL. COORDINATE

10. ALL TREE TRUNKS SHALL BE WRAPPED WITH BROWN CREPE TREE WRAP. APPLY WRAP IN NOVEMBER AND REMOVE IN APRIL.

NOT PLACE LANDSCAPE FABRIC OR MULCH ONTO TREE TRUNK.

REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).

12. COORDINATE LANDSCAPE INSTALLATION WITH GENERAL CONTRACTOR.

11. MAINTAIN ALL PLANT MATERIALS, INCLUDING WATERING, UNTIL THE TIME OF ACCEPTANCE.

ASSOCIATION OF NURSERYMEN.

SEED PLANTING NOTES:

WOODLAND SEED MIX: MN STATE SEED MIX #36-711 WOODLAND EDGE CENTRAL SEEDING RATE TO BE 35.5 LBS/ACRE (PURE LIVE

APPLY SEED PER THE FOLLOWING: MULCH SEEDED AREAS WITH MnDOT TYPE 3 (MCIA CERTIFIED WEED FREE) MULCH AT A RATE OF I TON PER ACRE WITHIN 48 HOURS OF SEEDING, MULCH SHOULD THEN BE DISC ANCHORED TO KEEP IT FROM BLOWING

SEEDING SHALL BE APPLIED FROM APRIL 15 - JUNE 30 OR NOVEMBER I - FREEZE UP. IF HYDROSEEDING UTILIZE APPROXIMATELY 500 GALLONS OF WATER PER ACRE. REFER TO MN/DOT SPEC 3884 FOR PROPER INSTALLATION OF HYDRO-SEED. ALL NATIVE SEEDS USED ON THIS PROJECT SHALL BE CERTIFIED TO BE OF MINNESOTA ORIGIN BY THE MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA). SITE TO BE PREPARED BY LOOSENING TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES. THE SITE TO BE HARROWED OR RAKED FOLLOWING SEEDING, AND THEN PACKED USING A CULTI-PACKER OR EQUIVALENT. SEE MNDOT SEEDING MANUAL FOR

MAINTAIN SEEDED AREAS BY WATERING, REMULCHING AND REPLANTING AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF THE SPECIFIED GRASSES UNTIL ACCEPTED. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RESEEDED, REFERTILIZED AND REMULCHED WHENEVER 70% VEGETATIVE COVER IS NOT ACHIEVED. RESEEDING SHALL CONFORM IN ALL RESPECTS TO THESE SPECIFICATIONS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE WORK AREAS RESULTING FROM EROSION AND/OR EQUIPMENT. THE CONTRACTOR SHALL REPAIR DAMAGE, INCLUDING REGRADING, RESEEDING, ETC. AS NECESSARY, BEFORE SIGNIFICANT DAMAGE OCCURS.

REFER TO MINNESOTA STATE SEED MIX MANUAL

SOIL PREPARATION:

PRIOR TO THE INSTALLATION OF THE LANDSCAPE AND IRRIGATION SYSTEM, CONTRACTOR TO PREPARE SOIL TO ENSURE A PROPER ENVIRONMENT FOR PLANT ROOT

CONTRACTOR TO DE-COMPACT SOILS IN PLANTING AREAS BY ROTO-TILLING, DISKING OR RIPPING TO DEPTH OF 6-8" MINIMUM AND PREFERABLE A DEPTH OF 12-18". DE-COMPACTION OF SMALL PLANTER AREAS, SUCH AS THOSE IN PARKING LOT AREAS, MAY REQUIRE THE REMOVAL OF THE COMPACTED SOIL TO A DEPTH OF 18" OR MORE AND THEN RE-INSTALLED LOOSELY WITH REQUIRED AMENDMENTS. ALWAYS REMOVE DEBRIS OVER 2" IN SIZE FROM THE SOIL.

WHEN PERFORMING SOIL DE-COMPACTION, MULTIPLE PASSES ACROSS THE AREA WILL BE REQUIRED AND, WHEN POSSIBLE, SHOULD BE AT VARYING ANGLES TO ENSURE ADEQUATE COVERAGE. WHEN USING DISC OR RIPPING PASSES OVER THE AREA BE MADE WITH A ROTO-TILLER TO BREAK UP ANY LARGE CLUMPS TO MAKE FINAL GRADING EASIER.

AFTER INITIAL SOIL DE-COMPACTION PROCEDURES ARE PERFORMED, SOIL AMENDMENTS SHOULD BE ADDED. THE ADDITION OF SOIL AMENDMENTS IS DETERMINED FROM SOIL TESTS CONDUCTED PRIOR TO WORK COMMENCING. SOIL AMENDMENT MAY INCLUDE INORGANIC MATERIAL SUCH AS SAND, SILT OR CLAY, WHICH HELP IMPROVE SOIL TEXTURE. ORGANIC MATERIAL SUCH AS COMPOST. MANURE, AND PEAT MOSS MAY ALSO BE USED AND HELP IMPROVE SOIL STRUCTURE. OTHER AMENDMENTS SUCH AS FERTILIZER IMPROVE NUTRIENT CONTENT AND SULFUR ADJUSTS THE SOIL PH LEVEL. SULFUR SHALL BE INCORPORATED AT THE RATE OF ONE POUND OF SULFUR PER 100 SQUARE FEET.

ALL AMENDMENTS SHOULD BE MIXED THOROUGHLY WITH EXISTING SOIL AND AN ADDITIONAL SOIL TEST WILL BE TAKEN TO ENSURE PROPER SOIL CONDITIONS PRIOR TO

44 TREES

SIZE

1 gal cont.

1 gal cont.

1 gal cont.

Landscaping surety

based on developable

area required before

permit issuance.

\$54,500.

Surety amount is

SCIENTIFIC NAME

Sedum spectabile 'Neon'

Heuchera 'Plum Pudding'

- 5-CBL

4-SED -

4-CBL

4-SED -

4-CBL -

4-SED -

4-SED -

AMENITY PATIO,

SEE ARCH.

COMMON NAME

CBL Plum Pudding Coral Bells

LANDSCAPE REQUIREMENTS

DEVELOPABLE AREA: TOTAL DEVELOPABLE AREA: 108,963 SF APPLE TREE 4TH ADD. LOT 1 BLK 1 OUTLOT A

LANDSCAPE CALCULATIONS
TREES REQUIRED: (1/2,500 SF DEVELOPABLE)

TREES PROVIDED: 44 TREES SHRUBS REQUIRED: 109 SHRUBS (1/1,000 SF DEVELOPABLE) SHRUBS PROVIDED: 268 SHURBS

NOTE: TREES NOT REQUIRED IN PARKING LOTS WITH 50 OR FEWER SPACES.

ALLIANT ENGINEERING

733 Marquette Avenue Suite 700 Minneapolis, MN 55402 612.758.3080 www.alliant-inc.com

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prepared by me or under my direct supervision and that I am a duly Licensed LANDSCAPÉ ARCHITECT under the laws of the State of MINNESOTA

hereby certify that this plan,

specification, or report was

26222 License No. QUALITY ASSURANCE/CONTROL

AND

DATE DATE ISSUE 4-4-22 PERMIT SET 4-18-22 ADDENDUM #2

PROJECT TEAM DATA DESIGNED: DMS/DJN DRAWN: PROJECT NO: 190123

L-2.0

QUANTITY	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE / ROOT TYPE	NOTES
OVERSTORY TE	REES				
8	HL	Northern Acclaim Honey Locust	Gleditisia Tricanthos var. inermis 'Harve'	2.5" cal. B&B	Straight Trunk, No V-Crotch
9	NH	New Horizon Elm	Ulmus carpinifolia 'New Horizon'	2.5" cal. B&B	Straight Trunk, No V-Crotch
7	SM	Autumn Spire Maple	Acer rubrum 'Autumn Spire'	2.5" cal. B&B	Straight Trunk, No V-Crotch
5	РВ	Paper Birch	Betula paperifera	10' ht. B&B	Clump Form
3	RB	River Birch	Betula nigra	12' ht. B&B	Clump Form
EVERGREEN TR	EES			•	
6	BS	Black Hills Spruce	Picea densata 'Black Hills'	10' ht. B&B	Clump Form
ORNAMENTAL	TREES				
6	AD	Adirondak Flowering Crab	Malus 'Adirondack'	1.5" cal. B&B	Straight Trunk, No V-Crotch
SHRUBS					
86	ВН	Dwarf Bush Honeysuckle	Diervilla lonicera	18" ht. cont.	Min. 5 canes at ht. spec.
43	GM	Goldmound Spirea	Spirea x 'Goldmound'	18" ht. cont.	Min. 5 canes at ht. spec.
9	НА	Holmstrup Arborvitae	Thuja occidentalis 'Holmstrup'	6' ht. B&B	Full Form
60	LH	Lime Light Hydrangea	Hydrangea paniculata 'Limelight'	18" ht. cont.	Min. 5 canes at ht. spec.
7	RD	Red Twig Dogwood	Cornus Alba	36" ht cont.	Min. 5 canes at ht. spec.
8	SJ	Scandia Juni per	Juniperus sabina 'Skandia'	18" ht. cont.	Min. 5 canes at ht. spec.
42	ΤΥ	Taunton Yew	Taxus x media 'Taunton'	24" ht. cont.	Full Form
PERENNIALS &	ORNAMEN	ITAL GRASSES			
86	CBL	Champagne Coral Bells	Heuchera 'Champagne'	1 gal cont.	
8	GRZ	Miscanthus Graziella	Miscanthus sinensis 'Graziella'	3 gal cont.	
42	LBS	Little Bluestem	Schizachyrium scoparium	1 gal cont.	
26	MFG	Miscanthus Flame	Miscanthus sinensis 'Purpurascens'	3 gal cont.	
72 RUS Little Spire Russian Sage		Little Spire Russian Sage	Perovskia atriplicifolia 'Little Spire'	1 gal cont.	
		Sagae Hosta	Hosta 'Sagae'	1 gal cont.	
90	WLC	Walker's Low Catmint	Nepeta x faasenii 'Walker's Low'	1 gal cont.	