

Building/property shall be adequately signed for emergency response.

Provide adequate turning 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.

Ensure landscaping doesn't 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



ALLIANT
ENGINEERING
733 Marquette Avenue
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DEVELOPER
KAEDING MANAGEMENT /
RON CLARK CONSTRUCTION

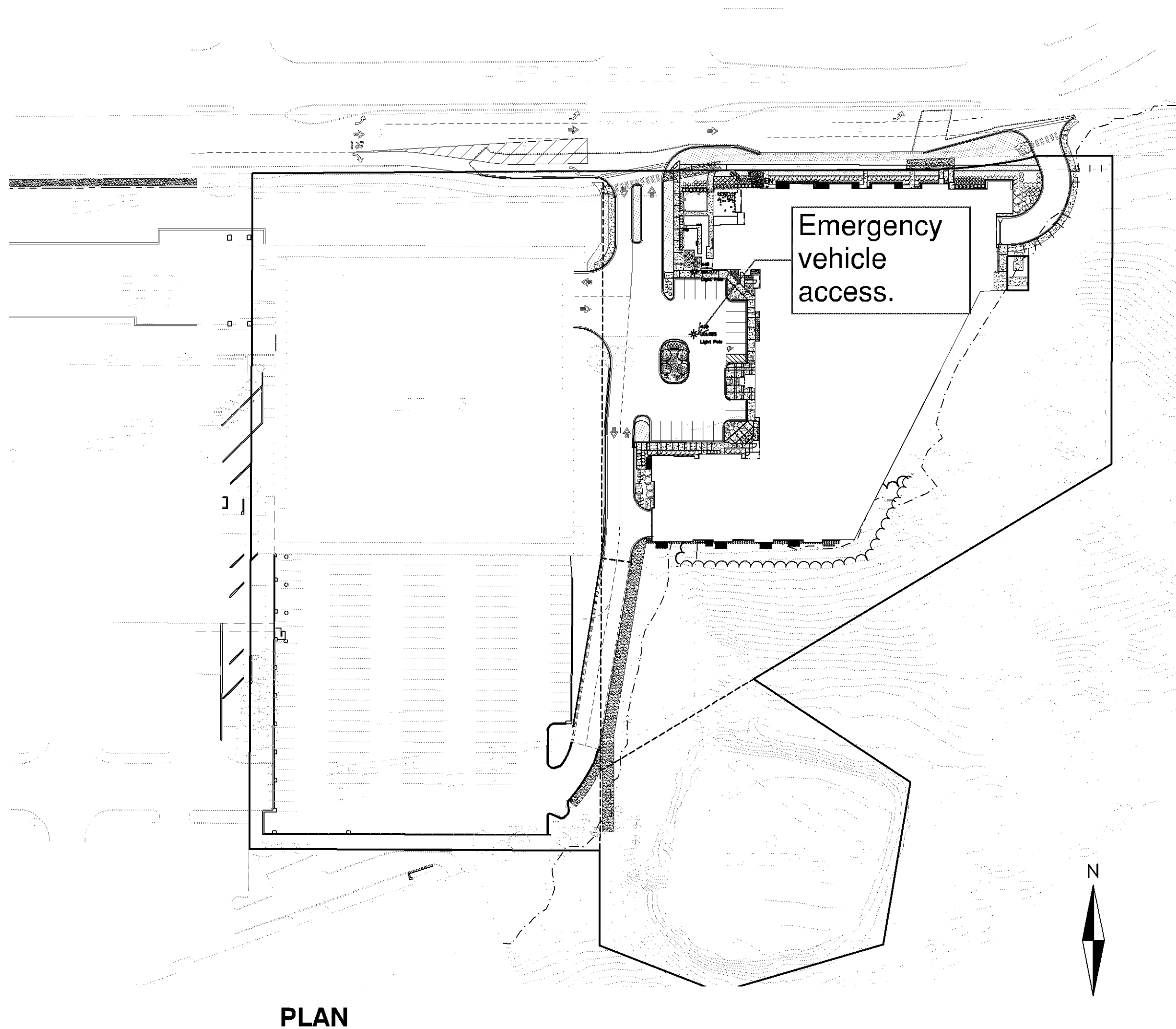
ARCHITECT
MOMENTUM DESIGN GROUP
PRIOR WORKS BUILDING
755 PRIOR AVENUE NORTH
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LAND SURVEYORS
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BLOOMINGTON, MN 55437
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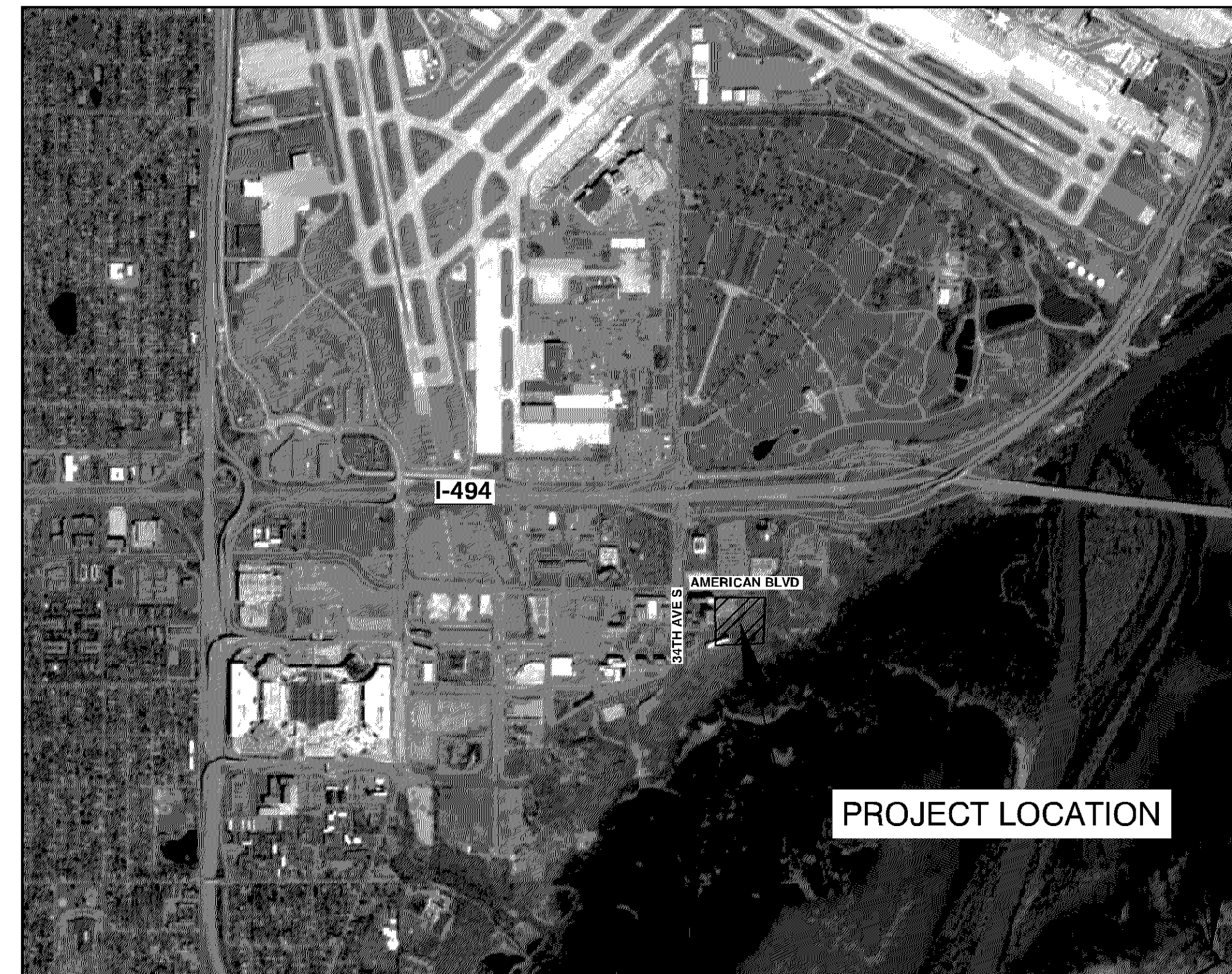
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LANDSCAPE ARCHITECT
MARK KRONBECK, PLA, ASLA
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PLAN



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
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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

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

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
Date License No.

QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE
4-4-22	PERMIT SET

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

C-1.0

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LEGAL DESCRIPTION:

OUTLET 1:
 Outlot 1, Block 1, except that part thereof embraced within the North 294.5 feet of the Southeast Quarter of the Northwest Quarter of Section 6, Township 27, Range 23, of the Northern Square 4th Addition, Hennepin County, Minnesota. TORRENS PROPERTY: Certificate of Title No. 020783.

OUTLET 2:
 That part of Lot 1, Block 1, Appletree Square 4th Addition embraced within the North 294.5 feet of the Southeast Quarter of the Northwest Quarter of Section 6, Township 27, Range 23, of the Northern Square 4th Addition, Hennepin County, Minnesota, except that part of said Lot 1 which lies Northwesterly of a line run parallel with said Section 6 and Southwesterly of said Section 6.

OUTLET 3:
 Rights of the Lessor under the unrecorded Appletree Motel Parking Ramp Lease dated December 10, 1974, as amended by Lease Amendment dated July 8, 1978, and set out in Memorandum of Lease recorded August 27, 1987, as Document No. 283983 (Torrens) and recorded August 28, 1987, as Document No. 677174 (Abstract) and Memorandum of Lease recorded August 5, 1997, as Document No. 677099 (Abstract), affecting Lot 3, Block 1, Appletree Square 4th Addition, together with a non-exclusive easement for utilities and access dated September 6, 1978, and recorded as Document No. 485463 (Abstract) and Document No. 158768 (Torrens) and as amended by Amendment of Declaration dated January 23, 1980, recorded as Document No. 450707 (Abstract) and Document No. 197249 (Torrens) and further amended by Second Amendment to Declaration of Easements dated April 30, 1981, and recorded as Document No. 480706 (Abstract) and Document No. 157594 (Torrens).

NOTES CORRESPONDING TO EASEMENTS:

- Easements for drainage and utility purposes as shown on this recorded plat of Appletree Square 4th Addition, recorded as Document No. 448007 (Abstract) and as Document No. 133007 (Torrens) (Affects Parcel 1 and 2) (AS SHOWN ON SURVEY)
- Easements for drainage and utility purposes as shown on this recorded plat of Appletree Square 2nd Addition, recorded as Document No. 402832 (Abstract) and as Document No. 173249 (Torrens) (Affects Parcel 3 and 4) (AS SHOWN ON SURVEY)
- Easement for pedestrian access in favor of the City of Bloomington dated July 3, 1973, recorded March 30, 1974, as Document No. 180111 (Torrens) (Affects Lot 1 of Parcel 1) (AS SHOWN ON SURVEY)
- Terms and conditions of easements created in Declaration of Easements dated September 10, 1974, recorded October 14, 1974, as Document No. 450707 (Abstract) and recorded October 30, 1974, as Document No. 133007 (Torrens)
- Amendment to Declaration of Easements dated January 23, 1980, recorded April 28, 1980, as Document No. 450707 (Abstract) and recorded April 18, 1981, as Document No. 173249 (Torrens) amended by Second Amendment to Declaration of Easements dated April 30, 1981, recorded May 2, 1984, as Document No. 485463 (Abstract) and recorded May 3, 1984, as Document No. 677099 (Torrens) (Affects Parcel 1, 2, 3 and 4) (AS SHOWN ON SURVEY)
- Easement for storage, parking and bicycle purposes in favor of the City of Bloomington recorded October 15, 1981, recorded November 22, 1983, as Document No. 100164 (Abstract) and as Document No. 460016 (Torrens) (Affects Lot 1 of Parcel 1) (AS SHOWN ON SURVEY)
- Easement for utility purposes in favor of the City of Bloomington dated June 27, 1983, recorded July 1, 1983, as Document No. 480706 (Abstract)
- Easement for Lot 1 of Parcel 1 (AS SHOWN ON SURVEY)
- Easement for driveway and utility purposes in favor of the City of Bloomington dated July 31, 1983, recorded August 7, 1983, as Document No. 449455 (Abstract)
- Easement for Lot 2 of Parcel 2 (AS SHOWN ON SURVEY)
- Terms and conditions of easements created in Subdivided Area Easement in favor of the City of Bloomington dated June 6, 1972, recorded July 17, 1972, as Document No. 393807 (Abstract) (Affects Parcel 1 and 2) (AS SHOWN ON SURVEY)
- Terms and conditions of the easement for encroachment purposes contained in Declaration of Easements dated January 6, 1981, recorded January 21, 1981, as Document No. 449750 (Abstract) (Affects Parcel 3) (AS SHOWN ON SURVEY)
- Non-exclusive easement for use as vehicular and pedestrian passageway and utility service as set forth in the Lease dated August 27, 1987, recorded August 27, 1987, as Document No. 433889 (Abstract) (Affects Parcel 3 and 4) (AS SHOWN ON SURVEY)
- Easement for access and utility purposes in favor of the City of Bloomington dated March 6, 1986, recorded April 24, 1986, as Document No. 665003 (Abstract)
- Easement for sidewalk and utility purposes in favor of the City of Bloomington dated March 6, 1986, recorded April 24, 1986, as Document No. 665004 (Abstract)
- Terms and conditions of easements created in Declaration of Easements dated May 15, 1984, recorded November 22, 1983, as Document No. 677099 (Torrens) (Affects Parcel 1) (AS SHOWN ON SURVEY)
- Easement for sidewalk and utility purposes in favor of the City of Bloomington dated December 1, 1985, recorded December 21, 1985, as Document No. 659078 (Abstract)
- Lot 1 of Parcel 1 (AS SHOWN ON SURVEY)
- Driveway and Utility Easement contained in Warranty Deed dated November 8, 1979, recorded November 8, 1979, as Document No. 450269 (Abstract)
- Affects Parcel 3 and 4 (AS SHOWN ON SURVEY)

GENERAL NOTES:

- The bearing system used is assumed.
- The location of the underground utilities shown hereon, if any, are approximate only. PURSUANT TO MINN. STAT. CHAPTER 358, SECTION 02.02, THE SURVEYOR HAS NO LIABILITY FOR DAMAGE TO ANY EXCAVATIONS.
- Subject property is identified as being in "Zone X, Other Areas" on Flood Insurance Rate Map No. 27053D4970, effective date November 4, 2010.
- Site Area = 309,505 square feet = 0.942 acres.
- There are 189 surface striped parking stalls on said property. 2 are designated as handicap. Parking stalls Total = 189; parking stalls of which there are 24 handicap parking (our 204 stalls by 185).
- This survey was made on the ground.
- No current title work was furnished for the preparation of this survey. In preparing this survey I have relied upon the respective documents and the Commitment for Title Insurance issued by First American Title Insurance Company, Commitment Number 100-70862-24M1S dated December 3, 2014, legal description: recorded or unrecorded easements and encroachments are noted to create upon record of this work.
- Elevation datum is based on NAVD 88 data. HSJ Benchmark #1 is located Top Nut Hydrant (AS SHOWN ON SURVEY) Elevation = 805.99.
- UDAR contour information was used to fill in the steep, overgrown and heavily wooded areas of the site. Note: These areas have contours only and no spot elevations. (SPLAVER AND CRETS) LOTS INTO SHOW AND PRINTED IN SUBJECT TO THE DISCLAIMER PROVIDED IN THE DATA DOCUMENTATION FROM AN ORO. MET/PO is a contractor with the following services: Minnesota Department of Natural Resources and MNIT Services @ Midco.

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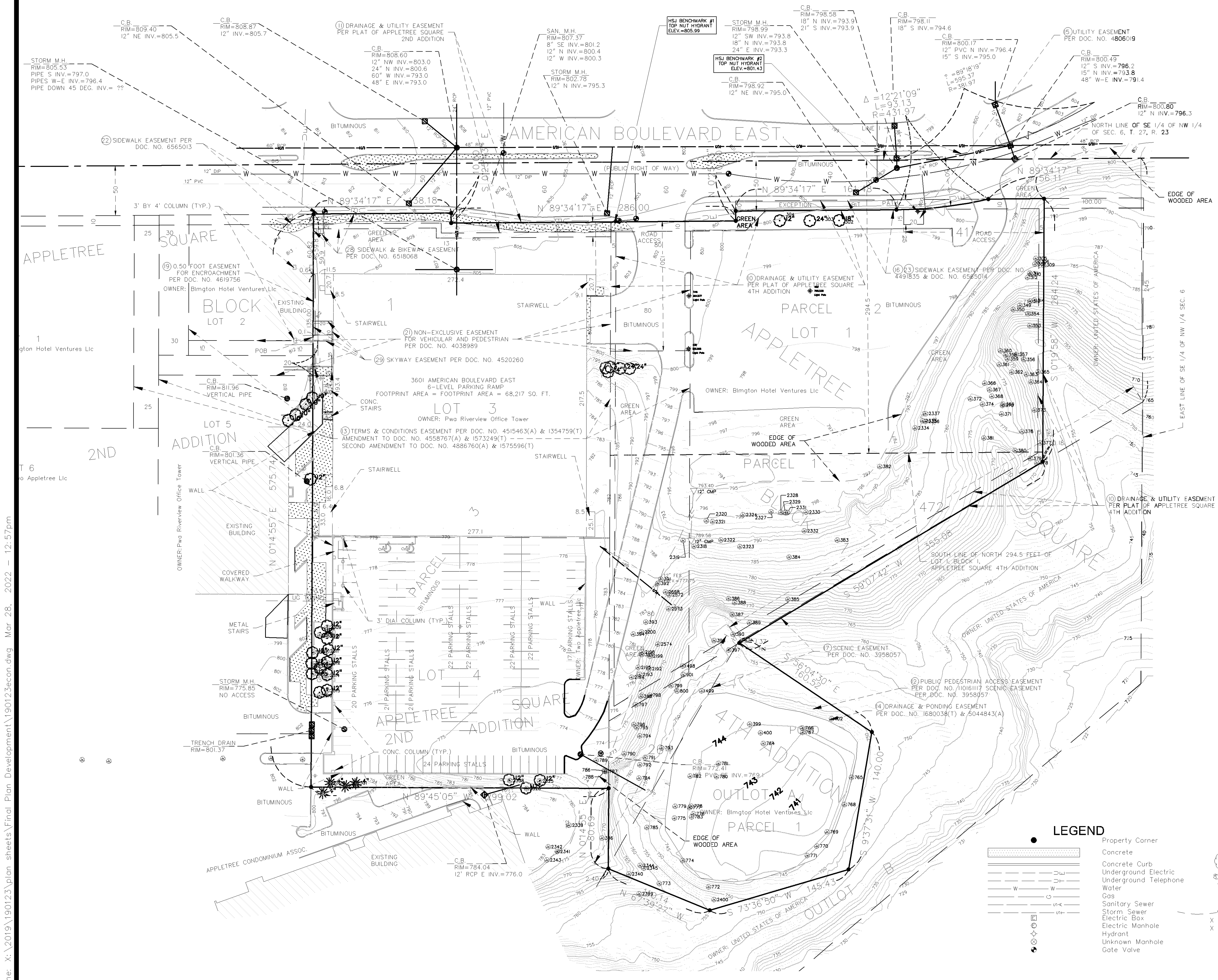
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 EXISTING CONDITIONS

QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE

PROJECT TEAM DATA
 DESIGNED:
 DRAWN:
 PROJECT NO:

C-2.0



LEGEND

- Property Corner
- Concrete
- Concrete Curb
- Underground Electric
- Underground Telephone
- Water
- Gas
- Sanitary Sewer
- Storm Sewer
- Electric Box
- Electric Manhole
- Hydrant
- Unknown Manhole
- Gate Valve
- Catchbasin
- Catchbasin
- Deciduous Tree (Dia. in in.)
- Coniferous Tree (Dia. in in.)
- Light Pole
- Sanitary Manhole
- Storm Manhole
- Existing Contour
- Existing Spot Elevation
- Existing Spot Elevation Gutter

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TREE INVENTORY

Tag Number	DBH	Common Name	Remove	Located in the Bluff	Notes
302	26	Basswood	X		2x trunk 15, 11
303	15	Basswood	X		
304	19	Basswood	X		
305	5	Hackberry		Yes	
306	6	Hackberry		Yes	
307	6	Hackberry		Yes	
308	7	Hackberry		Yes	
309	10	Hackberry		Yes	
310	16	Hackberry		Yes	
311	7	Hackberry		Yes	
312	15	Hackberry		Yes	
313	4	Hackberry		Yes	
314	9	Hackberry		Yes	
349	14	Hackberry		Yes	
350	12	Hackberry		Yes	
353	11	Hackberry		Yes	
354	8	Locust		Yes	
356	37	Locust		Yes	
357	6	Locust		Yes	
358	4	Hackberry		Yes	
359	27	Locust		Yes	
360	9	Hackberry		Yes	
361	5	Locust		Yes	
362	4	Hackberry		Yes	
363	6	Hackberry		Yes	
364	6	Hackberry		Yes	
365	6	Hackberry		Yes	
366	4	Oak		Yes	
367	15	Locust		Yes	
368	41	Oak		Yes	2x trunk 18, 23
369	4	Elm		Yes	
370	6	Elm		Yes	
371	10	Elm		Yes	
372	4	Oak		Yes	
373	14	Elm		Yes	
374	6	Elm		Yes	
375	10	Oak		Yes	
376	4	Elm		Yes	
377	9	Hackberry		Yes	
378	7	Hackberry		Yes	
379	12	Oak		Yes	
380	15	Elm		Yes	
381	30	Elm		Yes	2x trunk 18, 12
382	20	Russian Olive		Yes	
383	20	Russian Olive		Yes	2x trunk 10, 10
384	6	Hackberry		Yes	
385	4	Hackberry		Yes	
386	20	Hackberry		Yes	2x trunk 15, 5
387	7	Hackberry		Yes	
388	11	Elm		Yes	
389	8	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	4	Locust	X	Yes	
395	4	Hackberry		Yes	
396	5	Hackberry		Yes	
397	6	Elm		Yes	
398	7	Elm		Yes	
399	4	Hackberry		Yes	
400	4	Hackberry		Yes	
402	6	Hackberry		Yes	
764	8	Elm		Yes	
765	8	Elm		Yes	
766	9	Elm		Yes	2x trunk 5, 4
767	9	Elm		Yes	
768	5	Elm		Yes	
769	8	Elm		Yes	
770	6	Elm		Yes	
771	5	Elm		Yes	
772	9	Elm		Yes	
773	4	Elm		Yes	
774	4	Elm		Yes	
775	19	Elm		Yes	
776	6	Hackberry		Yes	
777	7	Elm		Yes	
778	19	Elm		Yes	
779	4	Elm		Yes	
780	17	Elm		Yes	
781	6	Elm		Yes	
782	6	Elm		Yes	
783	5	Elm		Yes	
784	5	Hackberry	X	Yes	
785	5	Elm		Yes	
786	6	Elm	X	Yes	
787	10	Elm	X	Yes	
788	10	Elm	X	Yes	
789	7	Elm	X	Yes	
790	6	Elm	X	Yes	

Tag Number	DBH	Common Name	Remove	Located in the Bluff	Notes
791	6	Elm		Yes	
792	6	Elm	X	Yes	
793	5	Hackberry		Yes	
794	9	Elm		Yes	
795	6	Elm		Yes	
796	7	Elm		Yes	
797	12	Cottonwood		Yes	
798	9	Elm		Yes	
799	6	Elm		Yes	
901	5	Elm		Yes	
1396	15	Box Elder		Yes	
1498	5	Elm		Yes	
1499	5	Elm		Yes	
2193	15	Cottonwood		Yes	
2194	10	Elm	X	Yes	
2195	7	Elm		Yes	
2196	12	Cottonwood		Yes	
2199	16	Cottonwood		Yes	
2200	10	Elm	X	Yes	
2301	3	Colorado Green Spruce			11' tall
2303	3	Colorado Green Spruce			11' tall
2304	3	Colorado Green Spruce			11' tall
2305	12	Crab Apple			
2306	12	Crab Apple			
2307	12	Crab Apple			
2308	12	Crab Apple			
2309	12	Crab Apple			
2310	12	Crab Apple			
2311	12	Crab Apple			
2312	12	Crab Apple			
2313	12	Crab Apple			
2314	12	Crab Apple			
2315	12	Crab Apple			
2316	12	Crab Apple			
2318	19	Elm		Yes	
2319	26	Box Elder			2x trunk 16, 10
2320	38	Cottonwood	X		
2321	16	Cottonwood	X		
2322	45	Cottonwood			3x trunk 18, 15, 12
2323	64	Cottonwood		Yes	4x trunk 16, 16, 16, 16
2324	19	Cottonwood	X		
2325	12	Ash			
2326	14	Ash			
2327	14	Cottonwood	X		
2328	14	Cottonwood	X		
2329	15	Cottonwood	X		
2330	18	Cottonwood	X		
2331	12	Cottonwood	X		
2332	17	Cottonwood		Yes	
2334	38	Cottonwood		Yes	
2335	19	Cottonwood		Yes	
2336	23	Cottonwood		Yes	
2337	18	Cottonwood		Yes	
2338	17	Ash		Yes	
2339	18	Maple		Yes	
2340	96	Cottonwood		Yes	3x trunk 39, 29, 28
2341	14	Hackberry		Yes	
2342	19	Maple		Yes	
2343	16	Hackberry		Yes	
2344	23	Cottonwood		Yes	
2345	23	Cottonwood		Yes	
2399	16	Cottonwood		Yes	
2400	40	Cottonwood		Yes	
2572	4	Elm		Yes	
2573	32	Cottonwood		Yes	
2574	7	Elm		Yes	
2698	10	Elm		Yes	

Drawing name: X:\2019\190123\plan sheets\Final Plan Development\190123tree.dwg Apr 04, 2022 - 5:16pm



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

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
DAVID NASH PE
04-04-22 21836
Date License No.

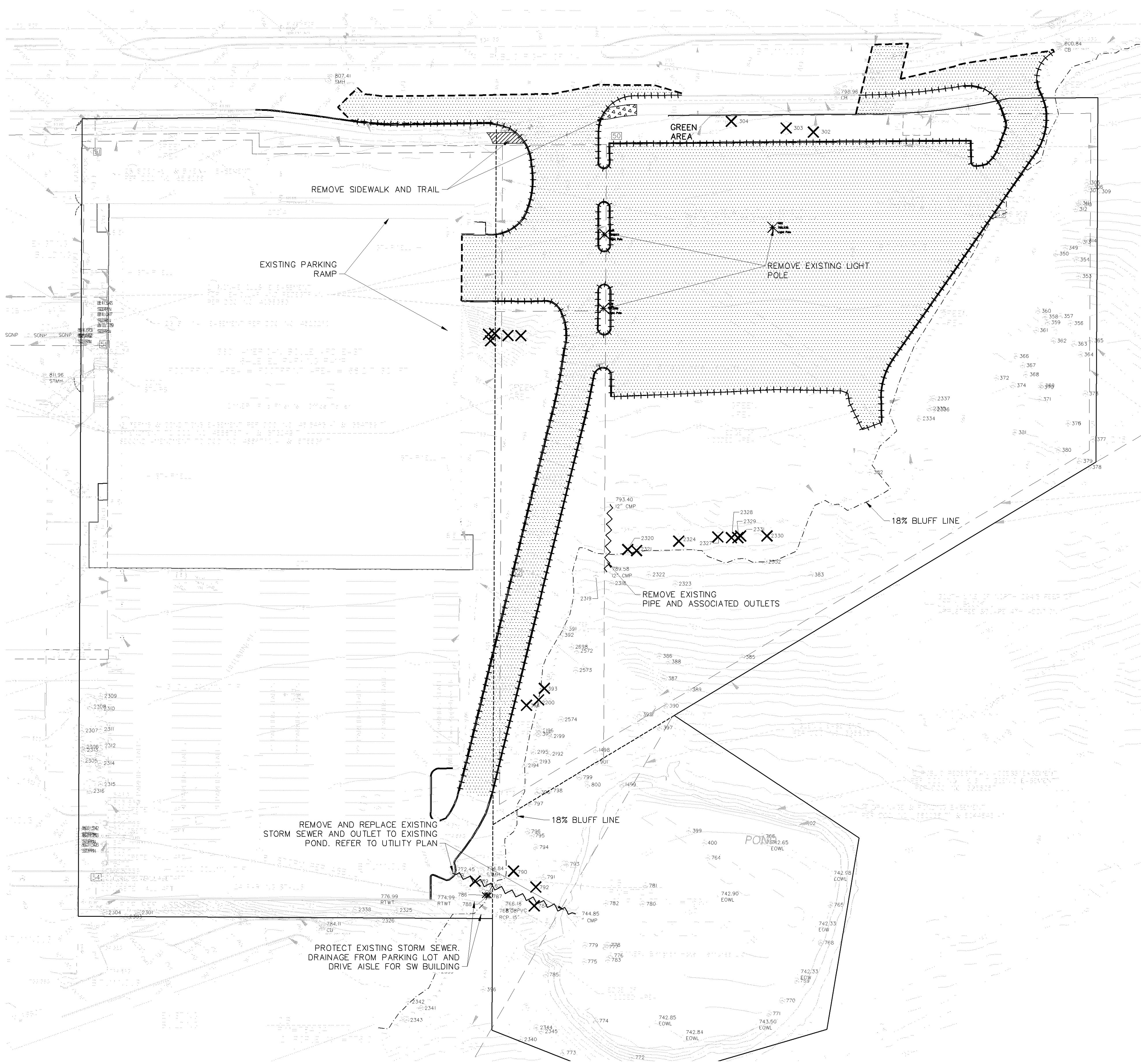
QUALITY ASSURANCE/CONTROL

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4-4-22	PERMIT SET

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

C-2.1

Drawing name: X:\2019\190123\plan sheets\Final Plan Development\190123demo.dwg Apr. 04, 2022 - 5:17pm



DEMOLITION NOTES:

1. 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 MINIMUM.
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 ACTIVITIES.
10. CONTRACTOR SHALL NOT IMPEDE EXISTING TRAFFIC CIRCULATION TO ADJACENT BUSINESSES.
11. PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH THE MOST CURRENT EDITION OF THE MINNESOTA TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL.
12. DEMOLITION CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE ENVIRONMENTAL REPORTS INCLUDING THE PHASE I REPORT AND FOLLOW REPORT RECOMMENDATIONS.

LEGEND

- PROPERTY LINE
- - - EASEMENTS
- X REMOVE TREE
- REMOVE CURB AND GUTTER
- REMOVE EXISTING UTILITY
- CLEARING LIMITS
- SAWCUT
- REMOVE BITUMINOUS PAVEMENT/PATH
- REMOVE BITUMINOUS TRAIL
- REMOVE CONCRETE SIDEWALK
- X REMOVE EXISTING LIGHT POLE

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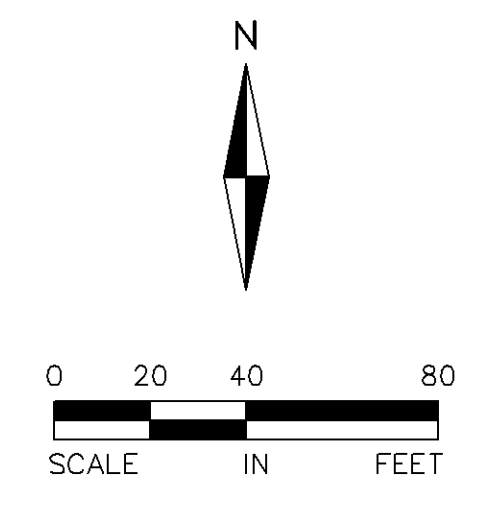
DAVID NASH PE
Date: 04-04-22 License No.:

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

C-3.0



NOTES

1. 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.
7. BITUMINOUS PAVEMENT SECTION DESIGN TO BE IN ACCORDANCE WITH LOCAL CONSTRUCTION STANDARDS. REFER TO GEOTECHNICAL REPORT AND DETAIL SHEET.
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 MIN 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:

1. 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 OCCUR AS A RESULT OF THESE ACTIVITIES.
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 ALL RAIN EVENTS.
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.
13. ALL WORK TO BE COMPLETED PER THE GEOTECH REPORT.

QUALITY ASSURANCE/CONTROL

BY	DATE
4-4-22	PERMIT SET



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SITE PLAN

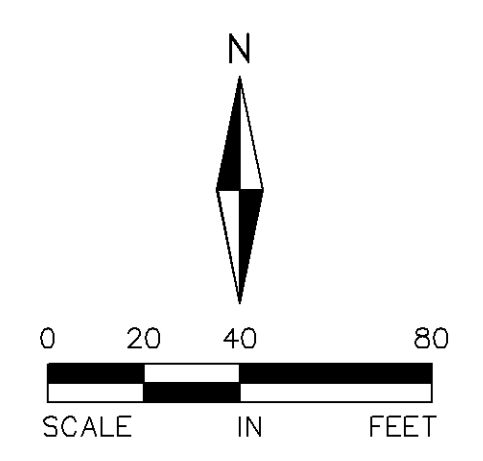
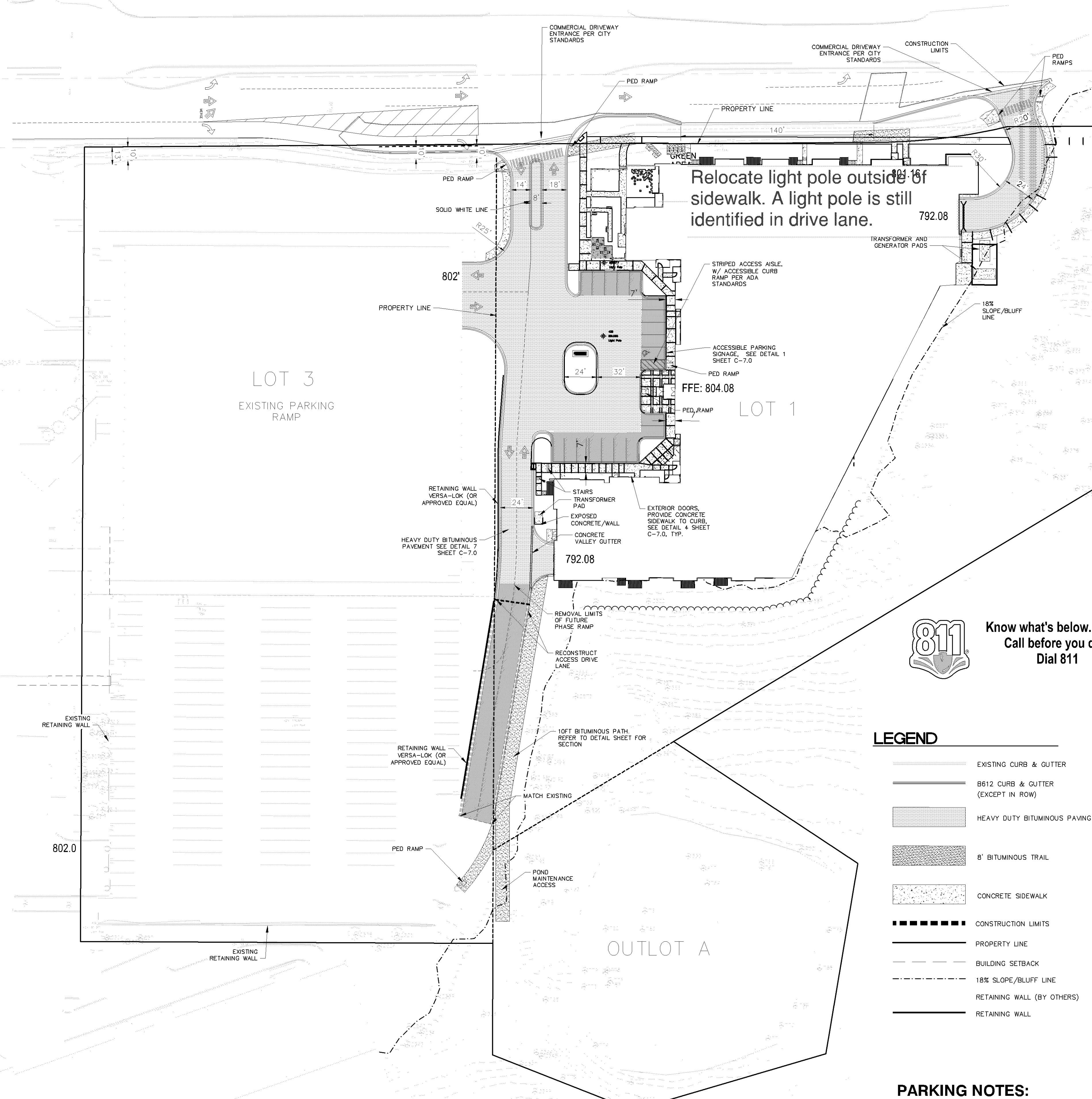
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of MINNESOTA.

David Nash
DAVID NASH PE
Date: 04-04-22 License No.:

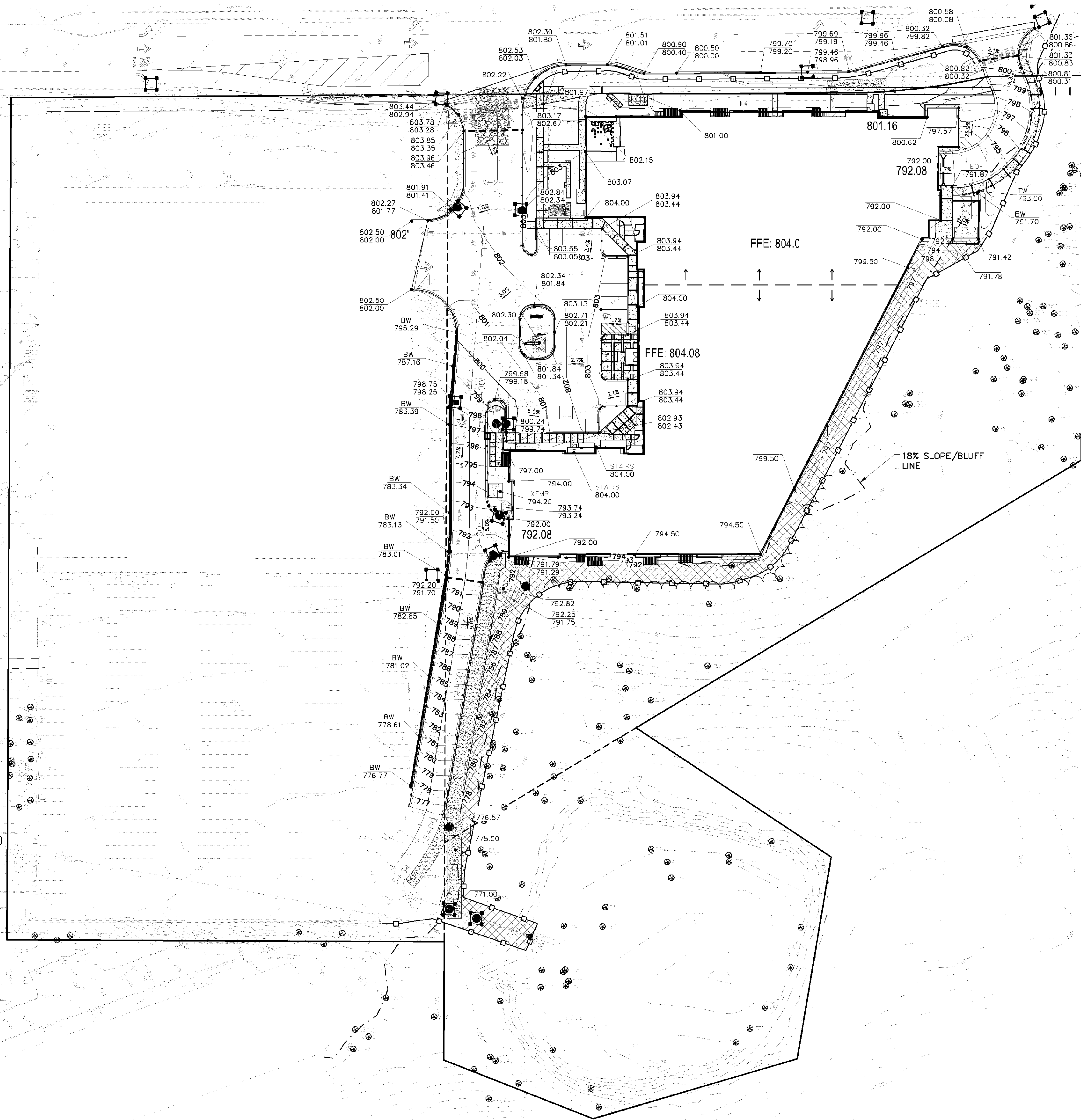
PROJECT TEAM DATA

DESIGNED:	DMS/DJN
DRAWN:	DMS
PROJECT NO.:	190123

C-4.0



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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 METHOD.
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:

- 9.4 --- EXISTING CONTOUR
- 964 — PROPOSED CONTOUR
- 964.5 • PROPOSED SPOT ELEVATION
- 964.0 •
- TW 964.5 TOP OF WALL ELEVATION
- BW 961.5 BOTTOM OF WALL ELEVATION
- 2.00% DIRECTION OF DRAINAGE
- EMERGENCY OVERFLOW ROUTING
- ▬ RETAINING WALL
- PROPOSED LUMINARIES
- EXISTING CATCH BASINS
- EXISTING STORM SEWER
- PROPOSED CATCH BASINS
- PROPOSED STORM SEWER
- PROPOSED LIMITS OF CONSTRUCTION
- PROPOSED EASEMENT
- PROPERTY LINE
- DD --- DRAINAGE DIVIDE
- HEAVY DUTY SILT FENCE
- INLET PROTECTION
- ROCK CONSTRUCTION EXIT
- EROSION CONTROL BLANKET
- OUTFALL GUTTER



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GRADING AND EROSION CONTROL 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 Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA.

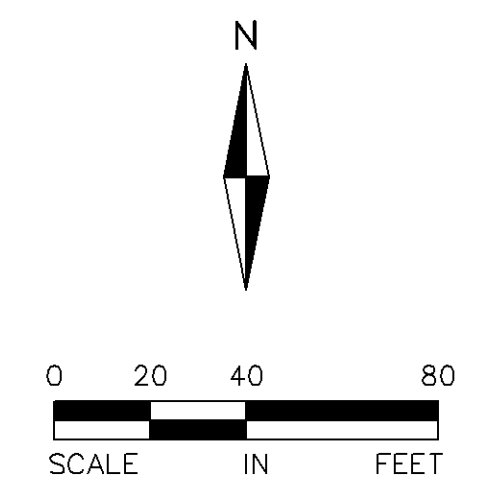
DAVID NASH PE
Date: 04-04-22 License No. 21836

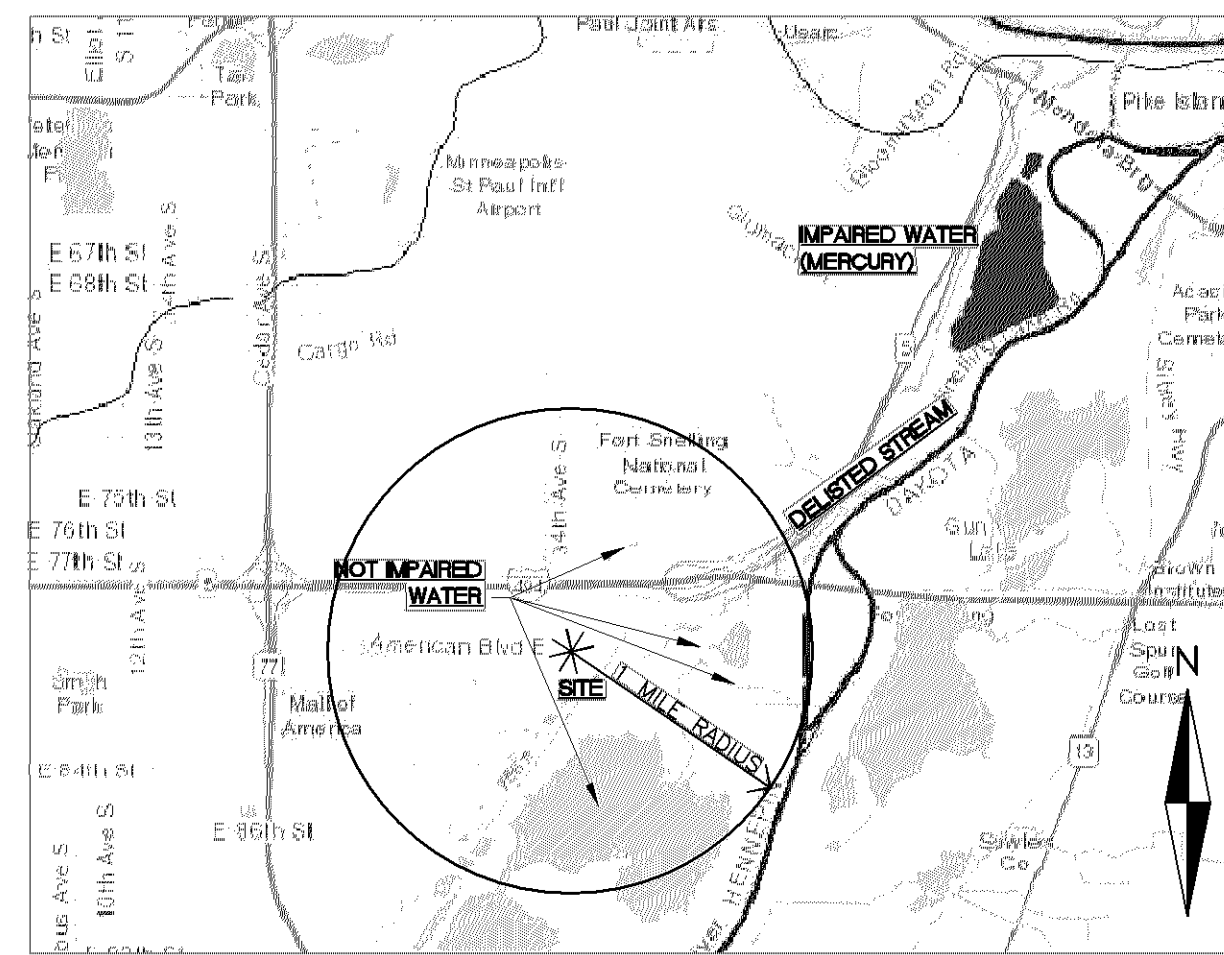
QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE
4-4-22	PERMIT SET

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

C-5.0





USGS TOPOGRAPHIC MAP



WEB SOIL SURVEY MAP

Table with 4 columns: Map Unit Symbol, Map Unit Name, Acres in ACI, Percent of ACI. Includes units like DSD, SP, L3P, and UAA.

WEB SOIL SURVEY LEGEND

EROSION CONTROL GENERAL NOTES:

- 1. NO LAND DISTURBING ACTIVITY SHALL OCCUR UNTIL A GRADING PERMIT HAS BEEN ISSUED FROM THE CITY OF BLOOMINGTON.
2. BEST MANAGEMENT PRACTICES (BMPs) REFER TO EROSION AND SEDIMENT CONTROL PRACTICES DEFINED BY THE MPCA...
3. ALL BMPs SELECTED SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE.

DEWATERING:

- 1. IF UTILITY INSTALLATION WORK ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL PROVIDE A PLAN TO THE CITY AND PROJECT ENGINEER FOR REVIEW...
2. IF ANY TEMPORARY DEWATERING IS REQUIRED...
3. ANY ACCUMULATED SEDIMENT ALONG EXISTING CURB AND GUTTER THAT HAS COLLECTED AS A RESULT OF DISCHARGING DEWATERING HOSES SHALL BE IMMEDIATELY REMOVED...

FILTRATION BMP NOTES:

- 1. INSTALLATION OF INFILTRATION/FILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL EVENT...
2. EXCAVATION OF INFILTRATION AREAS SHALL BE COMPLETED USING A BACKHOE WITH A TOOTHED BUCKET...
3. DURING CONSTRUCTION, STORM WATER MUST BE ROUTED AROUND INFILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED...

EROSION CONTROL SCHEDULE:

- 1. PRIOR TO ANY CONSTRUCTION OR DEMOLITION, SILT FENCE AND FILTERS SHALL BE INSTALLED AS SHOWN TO INTERCEPT RUNOFF.
2. 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...

SEDIMENT CONTROL PRACTICES

- 1. THE CONTRACTOR MUST EMPLOY SEDIMENT CONTROL PRACTICES AS NECESSARY TO MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS...
2. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS AND BE LOCATED UPWARD OF ANY BUFFER ZONES...
3. THE CONTRACTOR SHALL REINSTALL ALL SEDIMENT CONTROL PRACTICES THAT HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES...

INSPECTIONS AND MAINTENANCE

- 1. THE CONTRACTOR MUST ENSURE THAT A TRAINED PERSON (AS IDENTIFIED IN ITEM 23.11.2) WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS...
2. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED WITHIN 24 HOURS IN WRITING...
3. INSPECTION FREQUENCY ADJUSTMENT

IMPAIRED WATER SPECIAL REQUIREMENT:

THE MINNESOTA RIVER IS CLASSIFIED AS AN IMPAIRED WATER. THUS, THE FOLLOWING REQUIREMENTS APPLY FOR THIS PROJECT. PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS AS DESCRIBED IN ITEM 15.4...

POLLUTION PREVENTION MANAGEMENT MEASURES

- 1. STORAGE, HANDLING, AND DISPOSAL OF CONSTRUCTION PRODUCTS, MATERIALS, AND WASTES: THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MEASURES ON THE SITE.
2. 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...
3. VEHICLE AND EQUIPMENT WASHING: IF THE CONTRACTOR WASHES THE EXTERIOR OF VEHICLES OR EQUIPMENT ON THE PROJECT SITE...

ACTIVE SWPPP LEGEND

Legend table with columns for Construction Sequence (Mulch Berm, Silt Fence, etc.) and months (APR to APR).

NOTE: CONTRACTOR, GENERAL CONTRACTOR OR SWPPP INSPECTOR TO COMPLETE TABLE AS GRADING PROGRESSES

SEDIMENT BARRIERS

- 1. SILT FENCE (M/DOT 3886)
2. CURB LOG
3. ROCK WEEPER
4. SEDIMENT LOGS

TEMPORARY SEED MIX

- 1. MN STATE SEED MIX 21-112 (WINTER WHEAT COVER CROP)
2. MN STATE SEED MIX 22-111 (OATS COVER CROP)

STABILIZATION BMP'S

- 1. EROSION CONTROL BLANKET M/DOT CATEGORY 5
2. SOD

GRADING ACTIVITY

- 1. CONCRETE WASH-OUT IS DONE TRUCK BY TRUCK WITH A MOBILE WASH-OUT SYSTEM PROVIDED AND COMPLETED BY THE CONCRETE CONTRACTOR.

INLET PROTECTION DEVICES

- 1. W/MCO (M/DOT TYPE A & C)
2. INFRAFACE STORM DRAIN/CULVERT

PERTINENT PERMITS:

- 1. CITY OF BLOOMINGTON GRADING PERMIT
2. NPDES

CONSTRUCTION SEQUENCE

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

- 1. INSTALL STABILIZED 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.
6. ROUGH GRADING OF SITE.

SWPPP BMP QUANTITIES (PER PLAN):

Table with 2 columns: BMP Type and Quantity. Includes Silt Fence (271 LF), Inlet Protection (23 EA), Rock Construction Entrance (1 EA), and Seed/Sod Post Grading Area (0.52 AC).

EROSION CONTROL RESPONSIBLE PARTIES:

OWNER/DEVELOPER: KAEDING & RON CLARK
SWPPP INSPECTOR: TBD

ENGINEER:

DAVE NASH
LICENSE NO. 40922
ALLIANT ENGINEERING, INC.
233 PARK AVE S. STE. 300
MINNEAPOLIS, MN 55415
DNASH@ALLIANT-INC.COM

CONTRACTOR:

TBD

FINAL STABILIZATION

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 NOTICE OF TERMINATION (NOT).
13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY 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 SEDIMENT CONTROL BMPs PRIOR TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPs DESIGNED TO DECOMPOSE ON-SITE IN PLACE.

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EROSION CONTROL, SWPPP, AND BLUFF PROTECTION NOTES

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

Signature: Dave Nash
Name: DAVID NASH PE
Date: 04-04-22
License No.:

QUALITY ASSURANCE/CONTROL

Table with columns: BY, DATE, ISSUE. Row 1: 4-4-22, PERMIT SET

PROJECT TEAM DATA

Table with columns: DESIGNED: DMS/DMS, DRAWN: DMS/JUN, PROJECT NO.: 190123

C-5.1

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NOTES

- EXISTING UTILITIES, SERVICE LOCATIONS AND ELEVATIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
- MAINTAIN A MIN. 18" VERTICAL SEPARATION AT ALL PIPE CROSSINGS. LOWER WATERMAIN AS NECESSARY W/ BENDS AND FITTINGS. WATER AND SANITARY SEWER LINES TO MAINTAIN 10' HORIZONTAL SEPARATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS PRIOR TO THE START OF CONSTRUCTION.
- PROVIDE POLYSTYRENE INSULATION FOR ALL STORM SEWER AND WATERMAIN CROSSINGS WHERE VERTICAL OR HORIZONTAL SEPARATION IS LESS THAN 3'.
- ALL UTILITY WORK SHALL COMPLY WITH THE CITY OF BLOOMINGTON ENGINEERING SPECIFICATIONS, LATEST EDITION.
- NOTIFY GOPHER STATE ONE CALL 48 HOURS IN ADVANCE OF ANY UTILITY WORK.
- PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH MNDOT "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS-FIELD MANUAL" LATEST REVISION, FOR ANY CONSTRUCTION WITHIN PUBLIC R.O.W.
- ALL STORM SEWER CASTINGS SHALL BE NEENAH OR APPROVED EQUAL.
- ALL SANITARY SEWER MANHOLES PER CITY OF BLOOMINGTON STANDARDS.
- WATERMAIN, SERVICES, AND VALVES SHALL BE INSTALLED WITH MINIMUM 8.0' AND A MAXIMUM OF 10.0' OF COVER.
- ALL WATERMAIN SHALL BE DIP WITH POLYWRAP PER CITY OF BLOOMINGTON STANDARDS.
- ALL SANITARY BUILDING SERVICES SHALL BE PVC SDR 26, SDR 35 ALLOWED ON MAINS WHERE DEPTH PERMITS. ALL SANITARY FORCEMAIN TO BE C-900 PVC. SIZE TO BE DETERMINED BY OTHERS.
- CONTRACTOR TO VERIFY ALL BUILDING CONNECTION POINTS WITH ARCHITECTURAL PLANS.
- ALL ROOF DRAINS (RD) SHALL HAVE AN AT GRADE DOWNSPOUT OVERFLOW.
- ALL ROOF WATER SHALL BE ROUTED TO THE SOUTH FILTRATION BASIN PER THE APPROVED STORMWATER MANAGEMENT PLAN.
- MAINTAIN AND VERIFY 10' HORIZONTAL SEPARATION IS PROVIDED BETWEEN ALL WATERMAIN AND CATCHBASIN/MANHOLES.
- CONTRACTOR TO COORDINATE ALL REQUIRED WATER MAIN SHUT-OFF WITH CITY OF BLOOMINGTON AND CONTACT PROPERTY OWNERS.
- CONTRACTOR TO ORDER AND PAY CITY FOR ALL WET TAPS ON SITE.
- INSTALL INTERIOR CHIMNEY SEALS ON ALL SANITARY SEWER MANHOLES.
- UTILITY AND MECHANICAL CONTRACTORS MUST COORDINATE THE INSTALLATION OF ALL WATER AND SEWER SERVICE PIPES INTO THE BUILDING TO ACCOMMODATE CITY INSPECTION TESTING.
- COMBINATION FIRE AND DOMESTIC SERVICES MUST TERMINATE WITH A THREAD ON FLANGE OR AN MJ TO FLANGE ADAPTER.
- ALL COMPONENTS OF THE WATER SYSTEM, UP TO THE WATER METER OR FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE INTERNAL COATINGS MEETING ANSI/AWWA STANDARDS FOR CEMENT MORTAR LINING OR SPECIAL COATINGS. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED.
- ALL WORK TO BE COMPLETED PER THE GEOTECH REPORT.

LIFT STATION NOTES

- THE LIFT STATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH MPCA REGULATIONS AND LOCAL STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS REQUIRED FOR CONSTRUCTION.
- A COMPLETE SYSTEM PACKAGE IN ACCORDANCE WITH THE DESIGN PARAMETERS HAS BEEN PREPARED BY MINNESOTA PUMP WORKS. CONTRACTOR QUESTIONS SHOULD BE ADDRESSED TO CHRISTA DENNIS BY PHONE AT (515) 635-0025.
- LIFT STATION PARAMETERS:
 - DUPLEX PUMPING STATION (SEE COMPLETE PACKAGE FROM MN PUMP WORKS)
 - 10 FOOT DIAMETER CONCRETE WETWELL
 - 5 FOOT DIAMETER CONCRETE VALVE VAULT
- ELEVATIONS:
 - WETWELL RIM ELEVATION = 802.30
 - INFLUENT PIPE INVERT = 782.80
 - FLOAT ELEVATIONS
 - ALARM ON = 782.10
 - LAG PUMP ON = 781.40
 - LEAD PUMP ON = 780.70
 - PUMPS OFF = 780.00
 - WETWELL INVERT = 778.00
- PUMPS:
 - DESIGN OPERATING CONDITIONS ARE 350 GPM @ 42' TDH
 - ABS SUBMERSIBLE NON-CLOG PUMPS MODEL XFP100E-CB1.5 PE56/4.
 - 7.5HP, 460V/3 PHASE, 1750 RPM MOTOR.
- THE CONTRACTOR SHALL PROVIDE A LIFT STATION STARTUP REPORT FOLLOWING INSTALLATION
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 4 FEET OF MNDOT 3149F 1" GRANULAR BEDDING TO SUPPORT THE BASE SLAB.
- THE LIFT STATION SHALL INCORPORATE AN ABOVE GROUND CONTROL PANEL AND AUDIBLE/VISUAL ALARM SYSTEM. CONTRACTOR TO ENSURE THAT ALL CONDUIT CONNECTIONS TO THE WETWELL ARE SEALED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL FOR THE WETWELL AND VALVE VAULT PRIOR TO ORDERING AND CONSTRUCTION.

SANITARY SEWER SCHEDULE:

MH	FROM	TO	PIPE O.D. [IN]	PIPE SLOPE [FT/FT]	PIPE LENGTH [FT]	INVERT FROM	INVERT TO	RIM ELEV	STRUCTURE SIZE [IN]	MANHOLE BUILD [FT]	PIPE TYPE
SAN MH 6	EX MH (STUB)		8	0.004	25.7	801.30	801.20	805.75	48	4.45	SDR-35 PVC
8" SAN SERV 1	SAN MH 2		8	0.050	34.4	796.00	794.28	N/A	N/A	7.99	SDR-35 PVC
8" SAN STUB	SAN MH 2		8	0.004	107.0	794.00	793.09	801.60	N/A	7.60	SDR-35 PVC
SAN MH 2	SAN MH 1		8	0.004	89.0	792.99	792.63	803.37	48	9.00	SDR-35 PVC
SAN MH 1	SAN MH 3		8	0.004	30.0	792.53	792.41	N/A	48	10.47	SDR-35 PVC
10" SAN SERV 1	SAN MH 3		10	0.0028	58.4	783.50	783.34	N/A	N/A	20.50	SDR-26 PVC
SAN MH 3	LIFT STATION		10	0.030	12.0	783.16	782.80	801.30	N/A	18.14	SDR-26 PVC

STORM SEWER SCHEDULE:

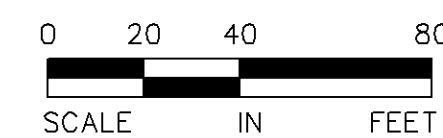
MH/CB FROM	TO	P. DIA. [IN]	P. SLOPE [%]	P. TYPE	PIPE LENGTH [FT]	FROM INVERT	TO INVERT	RIM ELEV	STR. TYPE	CAST TYPE	BUILD (FT)
RD 1	EX MH	15	0.004	RCP	48.1	794.2	794.0				
CB 112	CBMH 111	12	0.004	HDPE	45.0	797.6	797.4	801.3	2x3	R-3067-V	3.7
CBMH 111	CBMH 110	12	0.010	HDPE	146.3	797.4	796.0	802.3	48	R-3067-V	4.9
CBMH 110	CBMH 108	12	0.015	HDPE	6.0	795.3	795.2	800.1	48	R-3067-V	4.8
CB 109	CBMH 108	12	0.040	HDPE	34.0	794.3	792.9	798.3	2x3	R-3067-V	4.0
CBMH 108	CBMH 107	12	0.071	HDPE	62.2	792.4	788.0	798.9	48	R-3067-V	6.5
RD 2	CBMH 105	12	0.018	HDPE	25.0	786.5	786.1	0.0	0	0	0.0
CBMH 107	CBMH 106	12	0.018	HDPE	28.1	788.0	787.5	792.9	48	R-3067-V	4.9
CBMH 106	CBMH 105	12	0.086	HDPE	30.5	787.1	784.5	791.3	48	R-3067-V	4.2
CBMH 105	CBMH 104	12	0.036	HDPE	42.2	784.5	783.0	789.1	48	R-1642	4.6
CBMH 104	CBMH 103	12	0.083	HDPE	131.9	783.0	772.0	788.5	48	R-1642	5.5
CBMH 103	CBMH 102	12	0.108	HDPE	56.3	770.9	764.8	776.6	48	R-1642	9.7
CBMH 102	CBMH 101	18	0.086	HDPE	19.8	757.5	755.8	770.9	48	R-1642	13.4
CBMH 101	FES 100	21	0.022	RCP	39.9	745.8	744.9	760.0	48	R-1642	14.1
EX LOT CB	CBMH 102	15	0.015	HDPE	33.0	768.4	767.9	772.4	48	R-4342	4.0

PIPE CROSSING SCHEDULE:

CROSSING	PIPE ABOVE	PIPE BELOW	INV. (ABOVE)	TOP PIPE (BELOW)	DISTANCE BETWEEN	LOWER WATERMAIN
A	STORM	WATER	797.48	794.3	3.18	
B	WATER	SANITARY	794.24	794.184	0.056	YES
C	STORM	WATER	793.67	789.86	3.806	
H	STORM	SANITARY	797.3	792.45	4.85	

LEGEND:

- PROPOSED STORM SEWER
- PROPOSED SANITARY GRAVITY SEWER
- PROPOSED SANITARY FORCEMAIN
- PROPOSED WATERMAIN
- PROPOSED STORM CATCH BASIN /MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED BUTTERFLY/GATE VALVE
- PROPOSED SUBGRADE DRAINILE
- PROPOSED HYDRANT
- PROPOSED LIMITS OF CONSTRUCTION
- PROPOSED EASEMENT
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING EASEMENTS



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Date: 04-04-22 License No.: 21836

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DATE	ISSUE
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PROJECT TEAM DATA
DESIGNED: DWS/DJN
DRAWN: DMS
PROJECT NO: 190123

C-6.0

Drawing name: X:\2019\190123\plan sheets\Final Plan Development\190123util.dwg Apr. 04, 2022 - 5:22pm

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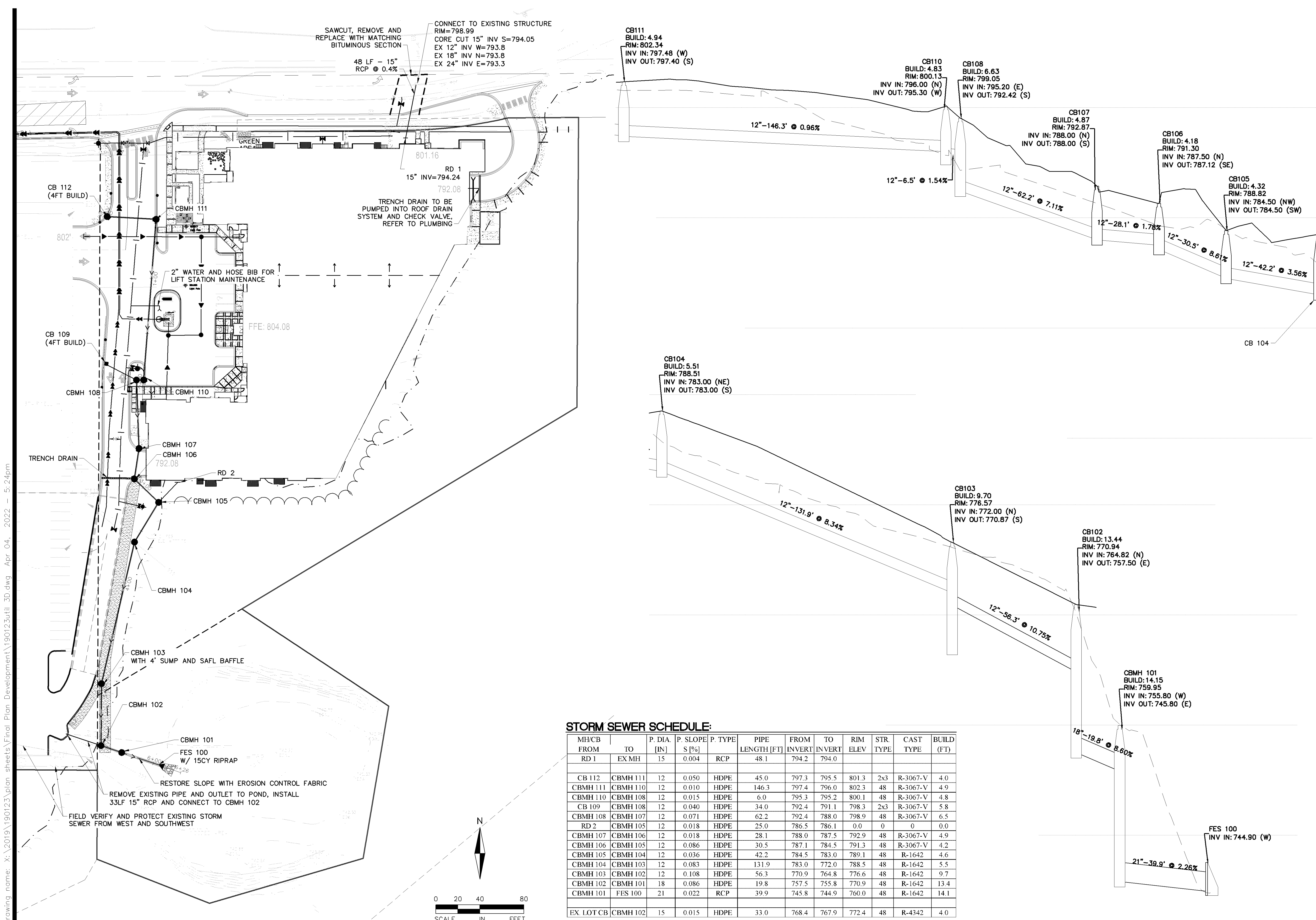
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DATE	ISSUE
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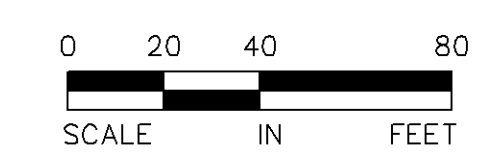
PROJECT TEAM DATA
DESIGNED: DMS/DJN
DRAWN: DMS
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X-X



STORM SEWER SCHEDULE:

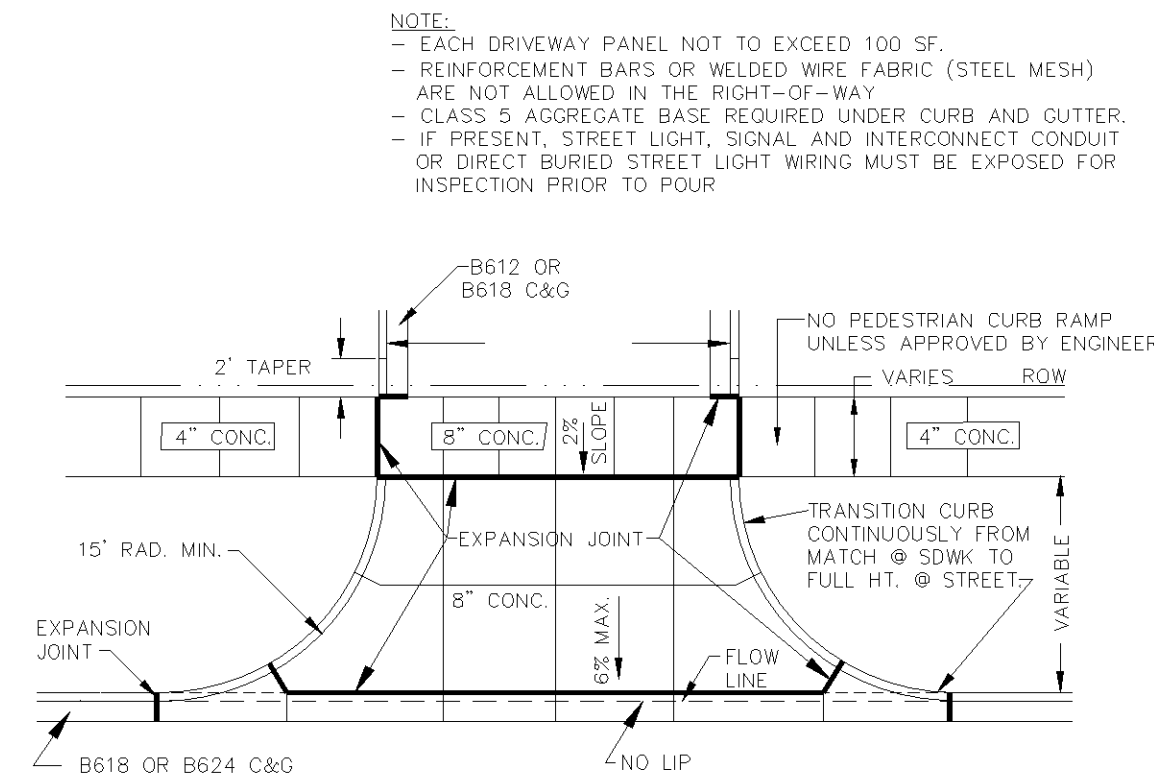
MH/CB FROM	MH/CB TO	P. DIA. [IN]	P. SLOPE S [%]	P. TYPE	PIPE LENGTH [FT]	FROM INVERT	TO INVERT	RIM ELEV	STR. TYPE	CAST TYPE	BUILD (FT)
RD 1	EX MH	15	0.004	RCP	48.1	794.2	794.0				
CB 112	CBMH 111	12	0.050	HDPE	45.0	797.3	795.5	801.3	2x3	R-3067-V	4.0
CBMH 111	CBMH 110	12	0.010	HDPE	146.3	797.4	796.0	802.3	48	R-3067-V	4.9
CBMH 110	CBMH 108	12	0.015	HDPE	6.0	795.3	795.2	800.1	48	R-3067-V	4.8
CB 109	CBMH 108	12	0.040	HDPE	34.0	792.4	791.1	798.3	2x3	R-3067-V	5.8
CBMH 108	CBMH 107	12	0.071	HDPE	62.2	792.4	788.0	798.9	48	R-3067-V	6.5
RD 2	CBMH 105	12	0.018	HDPE	25.0	786.5	786.1	0.0	0	0	0.0
CBMH 107	CBMH 106	12	0.018	HDPE	28.1	788.0	787.5	792.9	48	R-3067-V	4.9
CBMH 106	CBMH 105	12	0.086	HDPE	30.5	787.1	784.5	791.3	48	R-3067-V	4.2
CBMH 105	CBMH 104	12	0.036	HDPE	42.2	784.5	783.0	789.1	48	R-1642	4.6
CBMH 104	CBMH 103	12	0.083	HDPE	131.9	783.0	772.0	788.5	48	R-1642	5.5
CBMH 103	CBMH 102	12	0.108	HDPE	56.3	770.9	764.8	776.6	48	R-1642	9.7
CBMH 102	CBMH 101	18	0.086	HDPE	19.8	757.5	755.8	770.9	48	R-1642	13.4
CBMH 101	FES 100	21	0.022	RCP	39.9	745.8	744.9	760.0	48	R-1642	14.1
EX LOT CB	CBMH 102	15	0.015	HDPE	33.0	768.4	767.9	772.4	48	R-4342	4.0



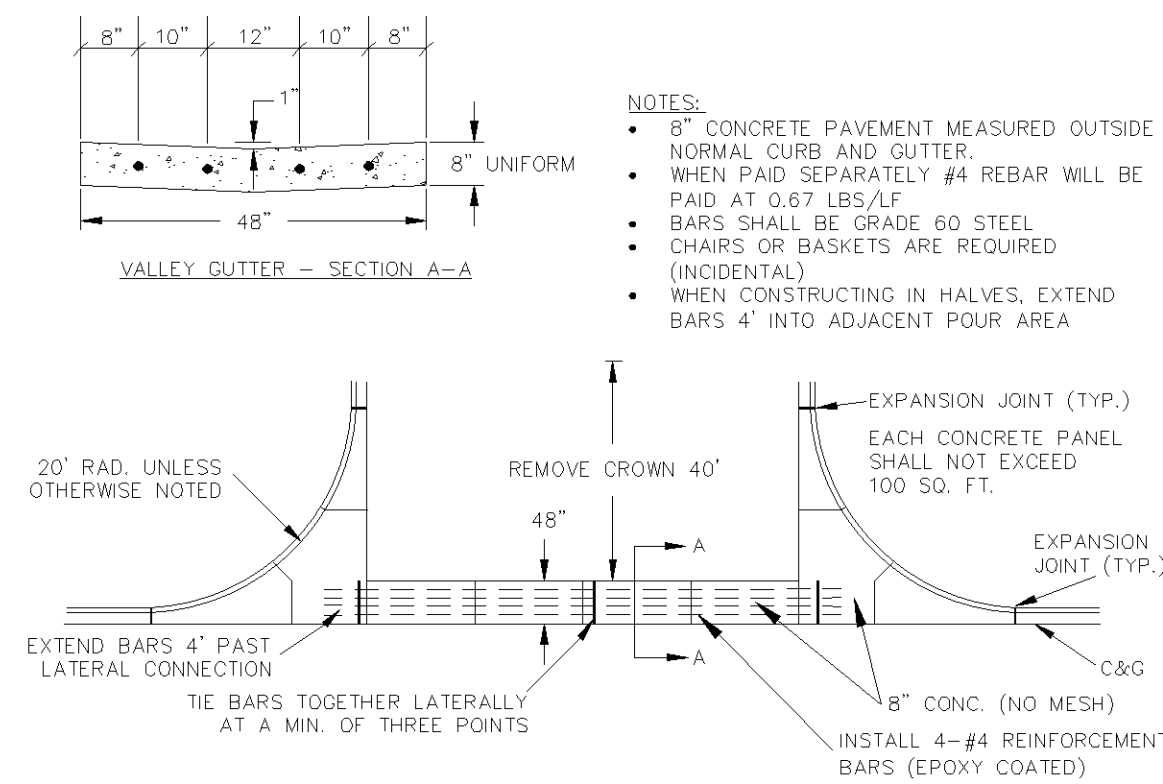
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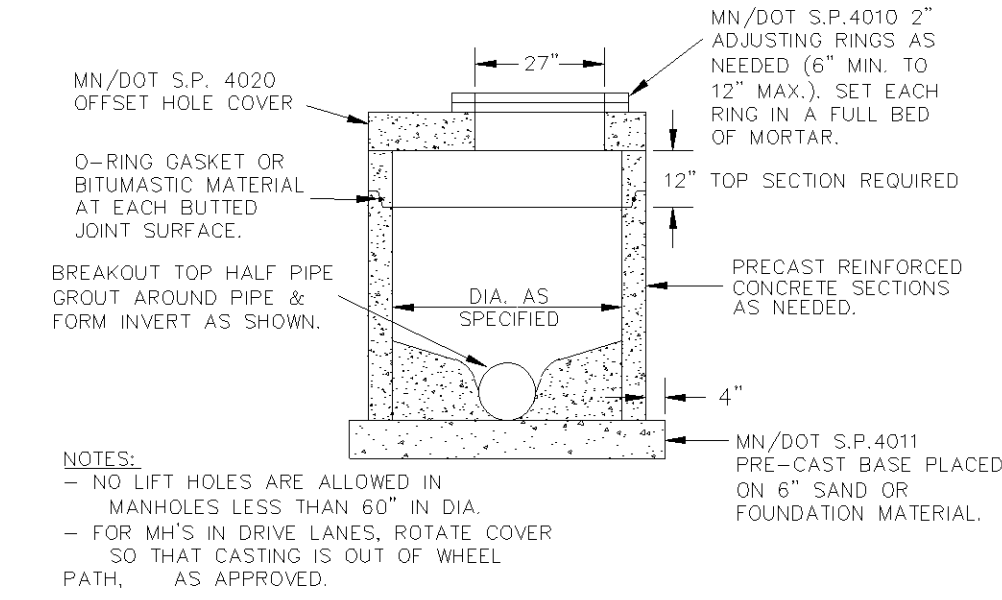
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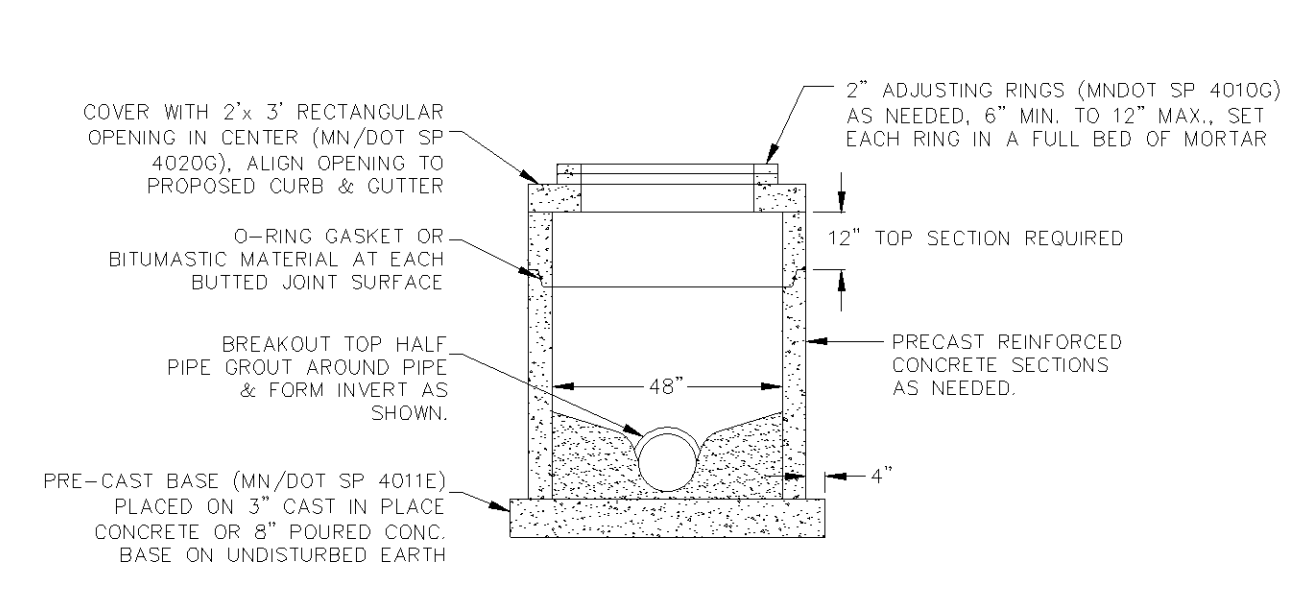
1 100 - NONRESIDENTIAL DRIVEWAY APPROACH WITH BOULEVARD SIDEWALK
NOT TO SCALE 100 - Drwy (Commercial).dwg 5/2015



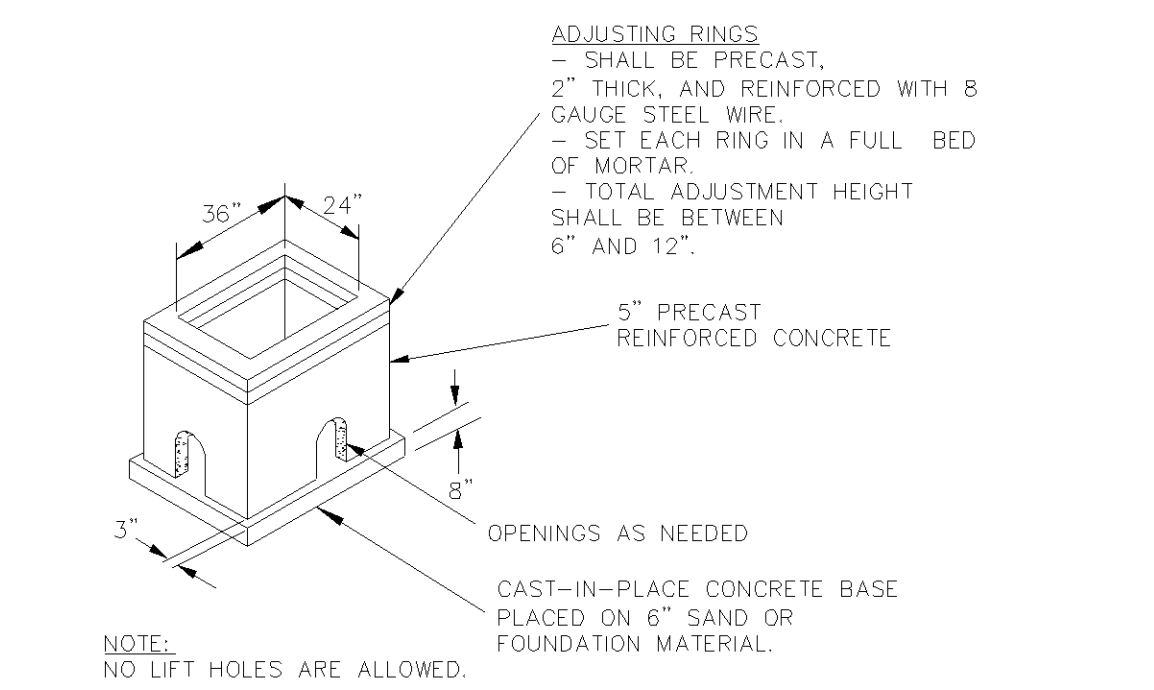
2 116 - VALLEY GUTTER AT INTERSECTION
NOT TO SCALE 116 - Valley Gutter.dwg 5/2015



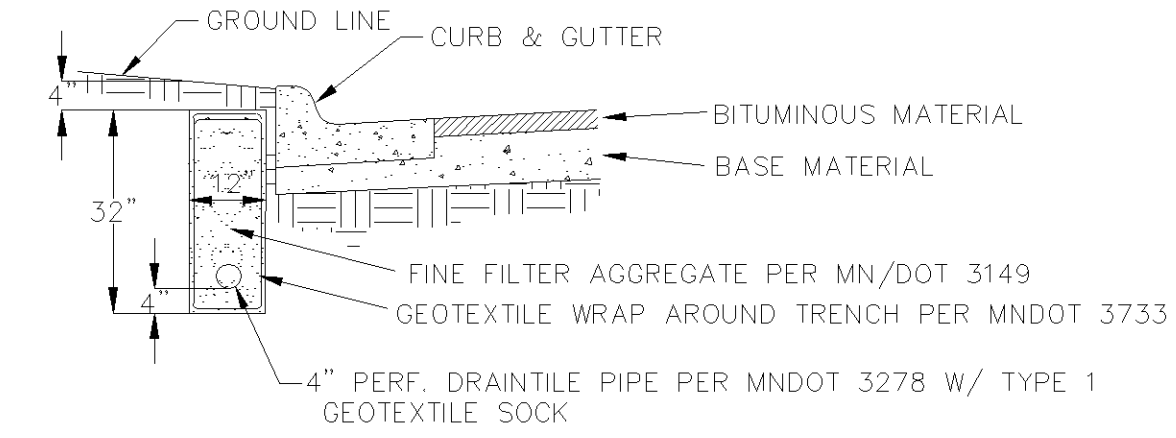
3 200 - STANDARD MANHOLE
NOT TO SCALE 200 - STD_MH.DWG 9/2013



4 203 - STANDARD MANHOLE (CB-MH)
NOT TO SCALE 203 - STD_MH (CB-MH).DWG 9/2016

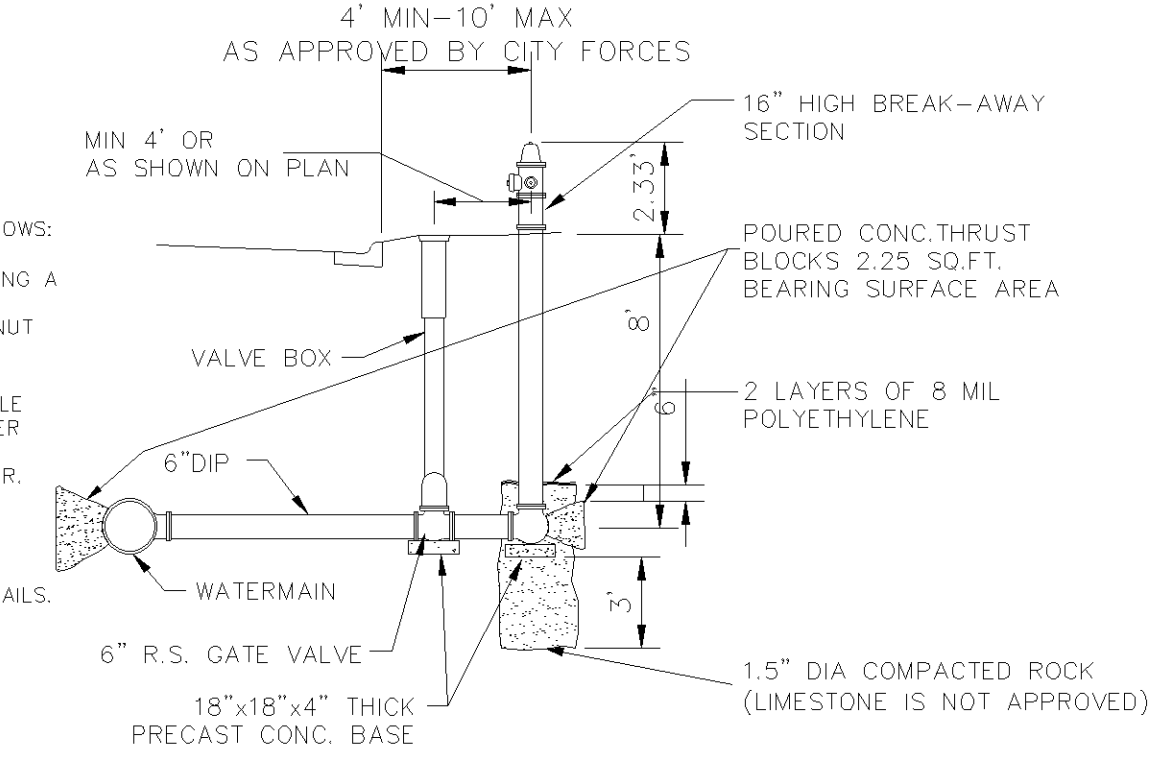


5 206 - STANDARD CATCH BASIN
NOT TO SCALE 206 - STD CB.DWG 9/2016

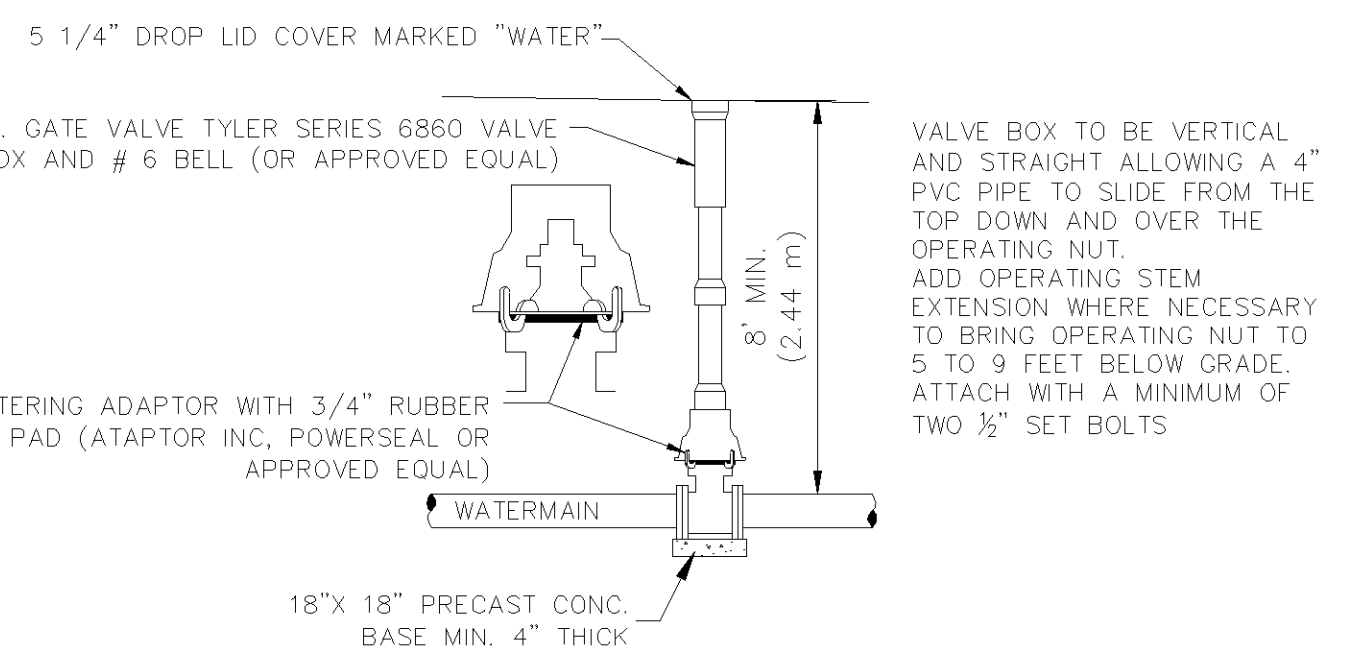


6 217 - DRAIN TILE (BEHIND CURB)
NOT TO SCALE 217 - DRN TILE (BEHIND CURB).DWG 9/2016

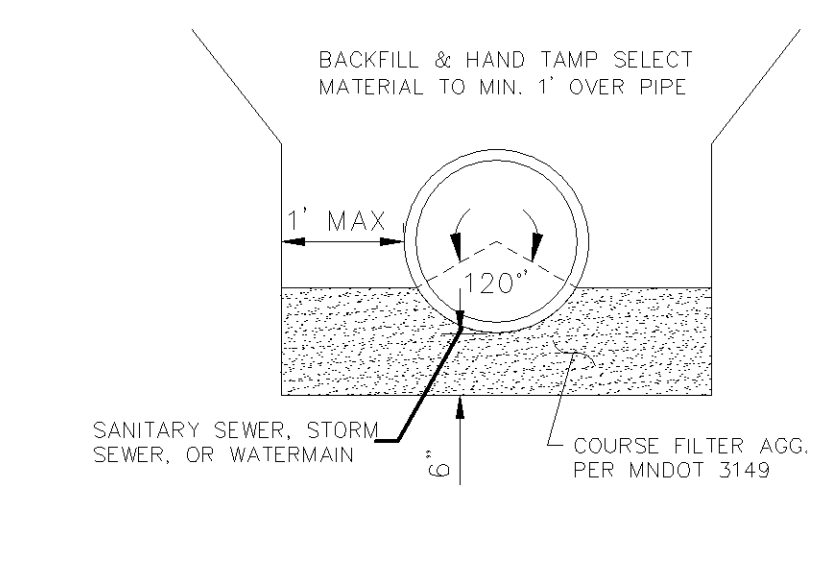
- HYDRANT TO BE:
 - WATEROUS PACER CLASSIC.
 - MUELLER SUPERCENTURION 250 MODEL A-423.
 - OR APPROVED EQUAL.
- EQUIP WITH THREE HOSE NOZZLES/CONNECTIONS AS FOLLOWS:
 - ONE - FACTORY INSTALLED 5 INCH STORZ-TYPE, QUARTER TURN PUMPER NOZZLE/CONNECTOR, INCLUDING A MANUFACTURER SUPPLIED AND INSTALLED ANODIZED ALUMINUM NOZZLE CAP WITH A 1.5 INCH PENTAGON NUT AND NO ROCKER LUG.
 - TWO - 2.5 INCH HOSE NOZZLES/CONNECTIONS (WITH NATIONAL STANDARD THREADS) AND STANDARD NOZZLE CAPS WITH 1.5 INCH PENTAGON NUTS, AND NO ROCKER LUGS.
- USE SS NUTS AND BOLTS AS APPROVED BY THE ENGINEER.
- ALL EXPOSED WATERMAIN SHALL BE WRAPPED WITH POLYETHYLENE IN ACCORDANCE WITH AWWA C-105. BARREL TO BE BRIGHT RED.
- ALL VALVES TO OPEN COUNTER-CLOCKWISE.
- SEE TYPICAL VALVE INSTALLATION DETAIL FOR VALVE DETAILS.
- WATEROUS PACER CLASSIC HYDRANTS SHALL INCLUDE INSTALLATION OF THE MANUFACTURERS MOST CURRENT ANTI-CHATTER BRASS UPPER VALVE WASHER.



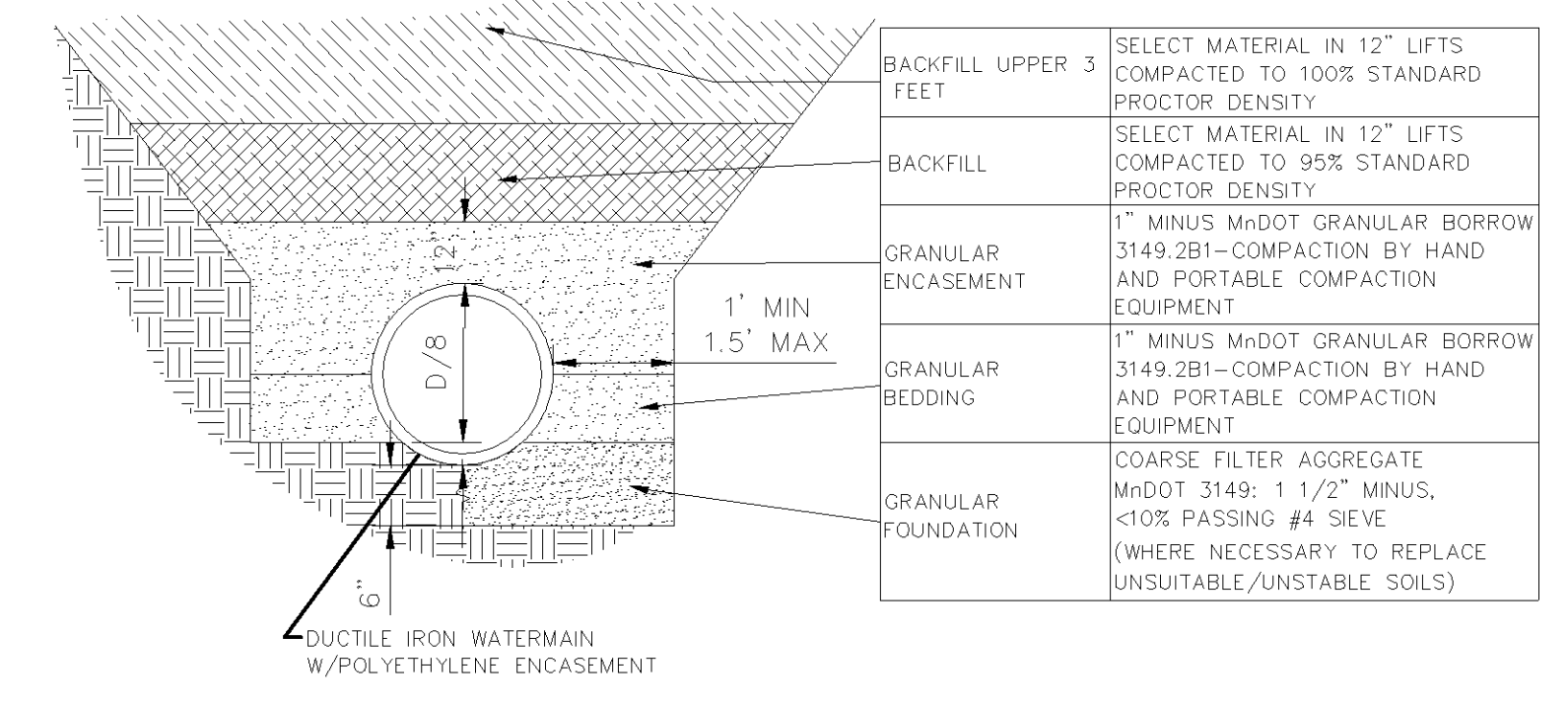
7 300 - TYPICAL HYDRANT INSTALLATION
NOT TO SCALE 300 - Hyd Install.dwg 6/2015



8 302 - TYPICAL VALVE INSTALLATION
NOT TO SCALE 302 - Valve (R8GV).dwg 6/2015



9 307 - FOUNDATION MATERIAL DETAIL
NOT TO SCALE 307 - Foundation Material.dwg 6/2015



10 308 - TYPICAL WATER MAIN INSTALLATION DETAIL
NOT TO SCALE 308 - Watermain Install.dwg 6/2015

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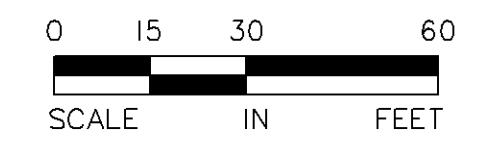
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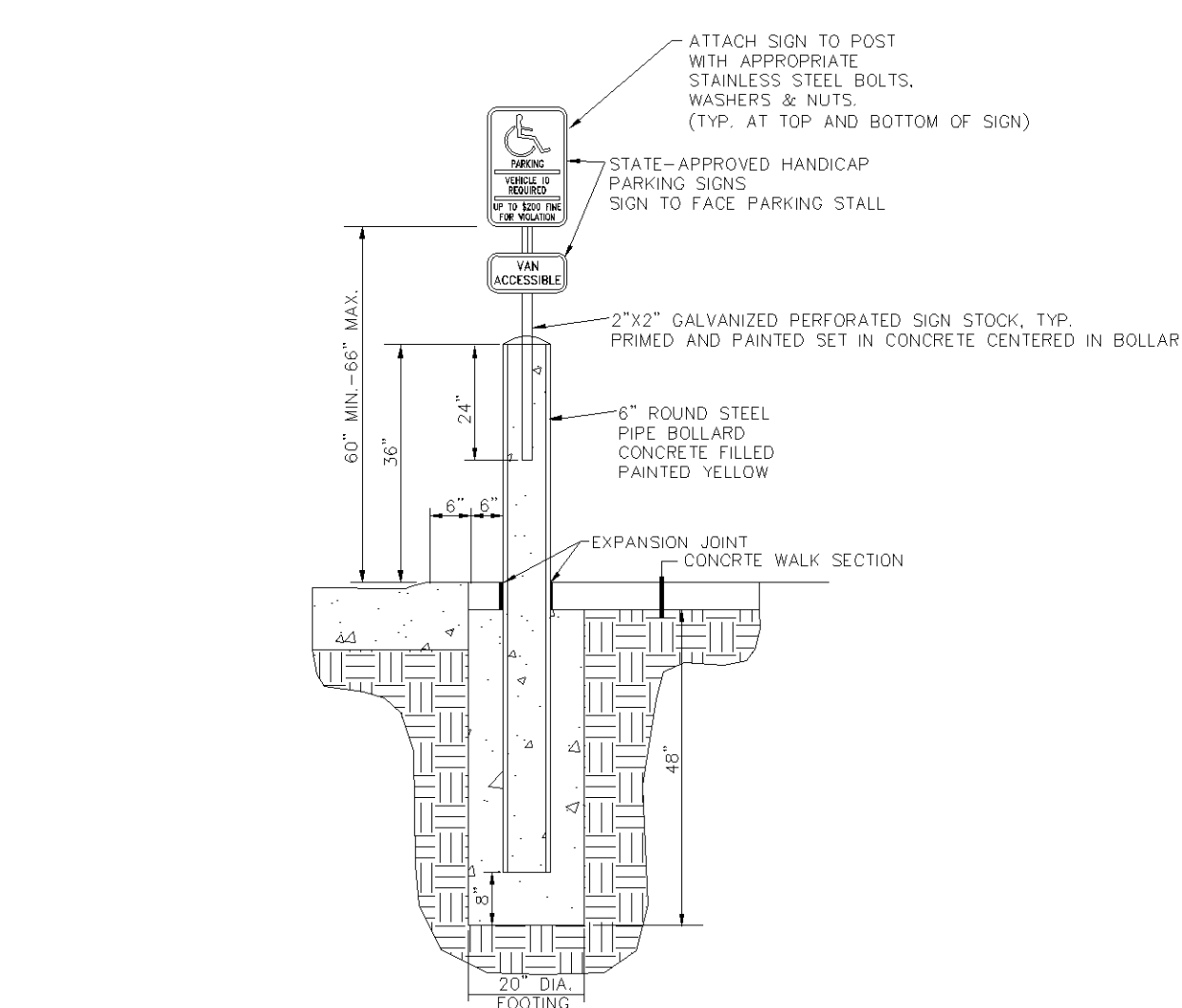
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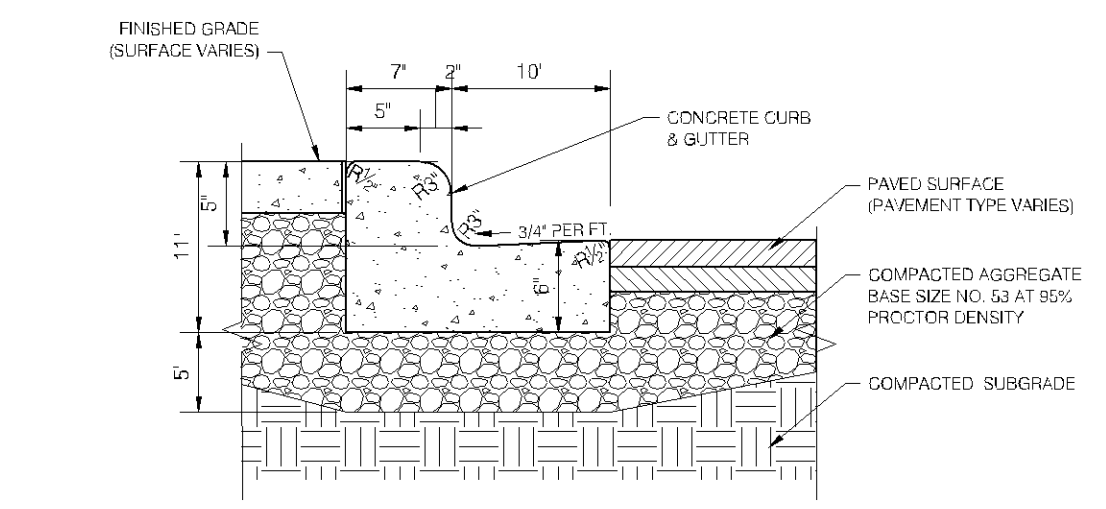
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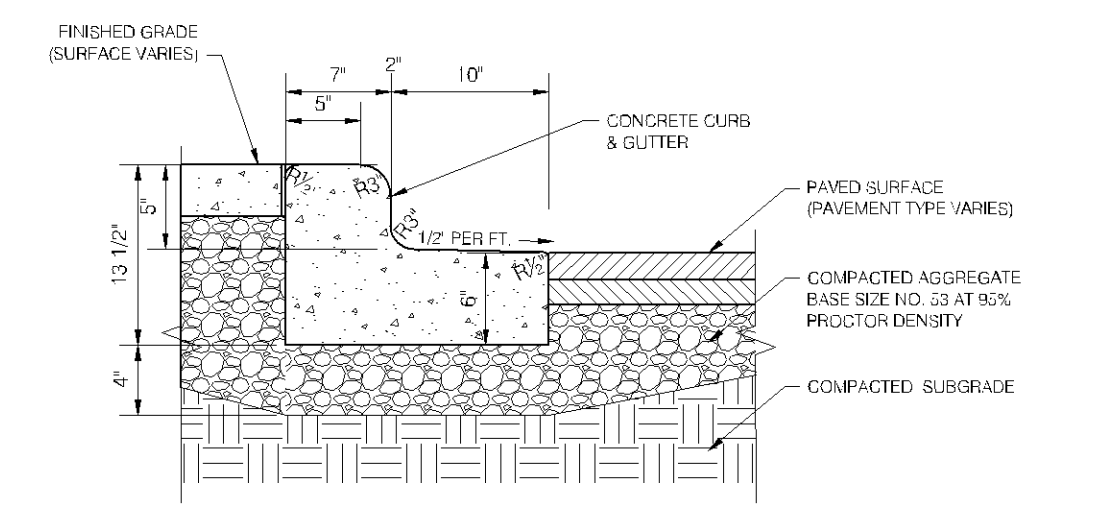
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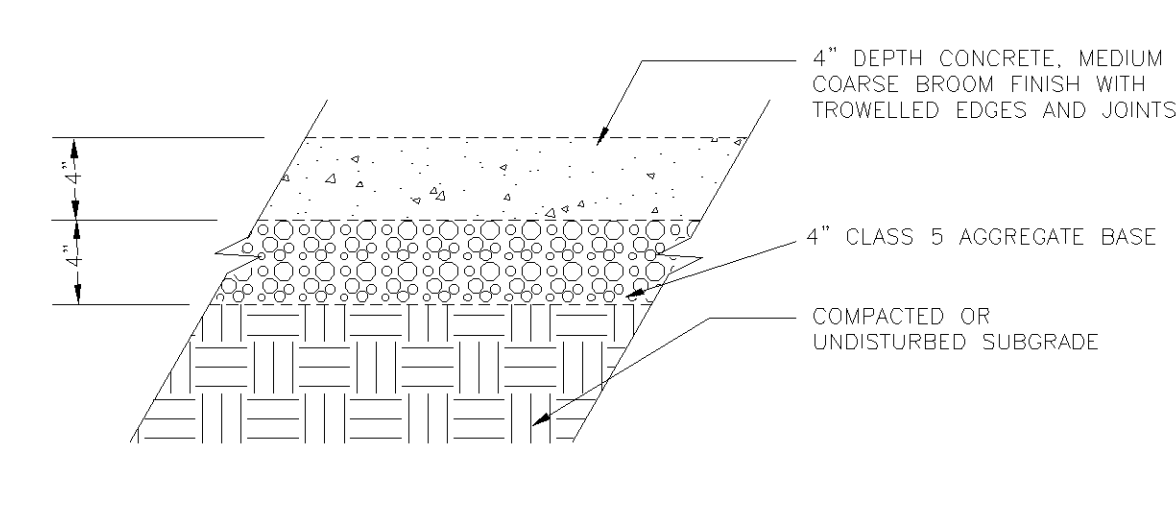
1 ROUND BOLLARD WITH ACCESSIBLE SIGNAGE
NOT TO SCALE



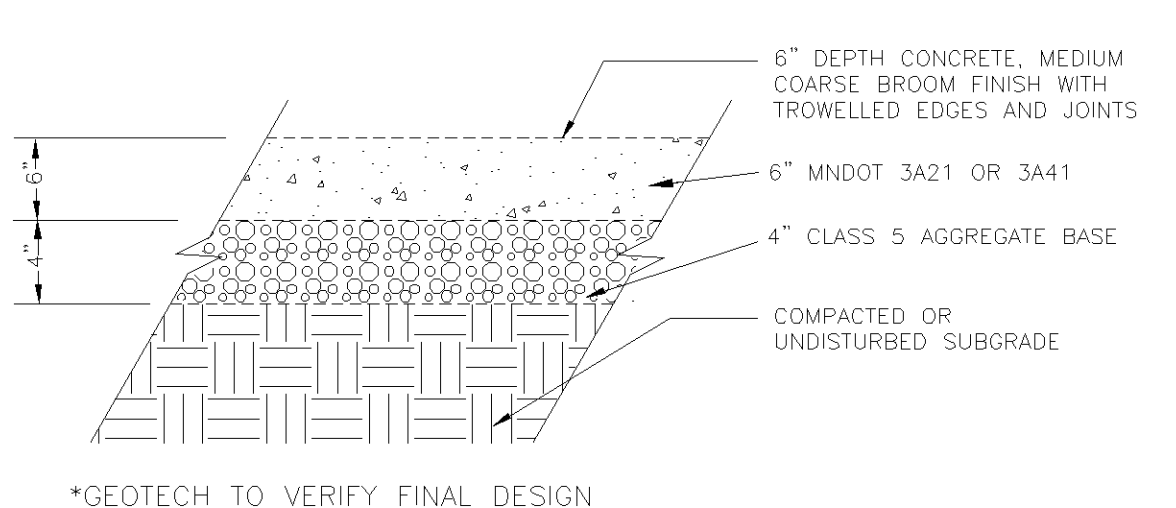
2 B612 CURB AND GUTTER
NOT TO SCALE



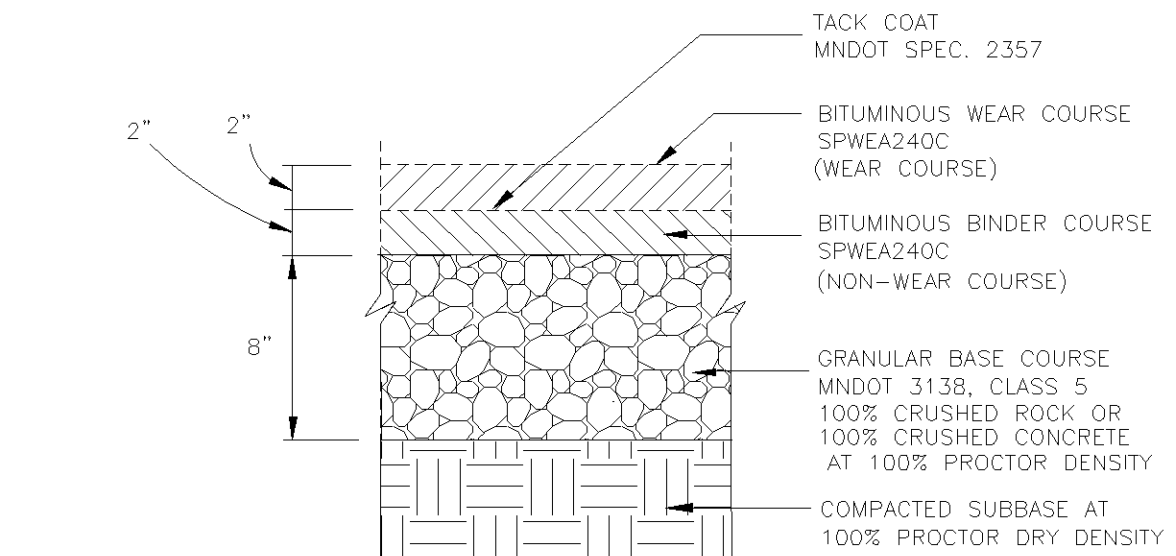
3 B612 CURB AND GUTTER - OUTFALL
NOT TO SCALE



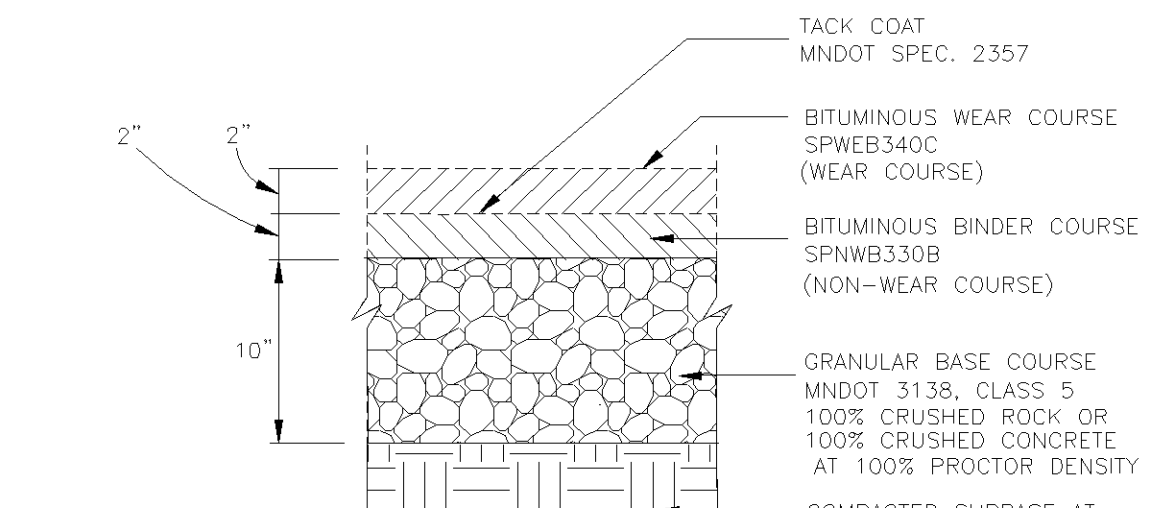
4 CONCRETE SIDEWALK
NOT TO SCALE



5 CONCRETE PAVEMENT
NOT TO SCALE

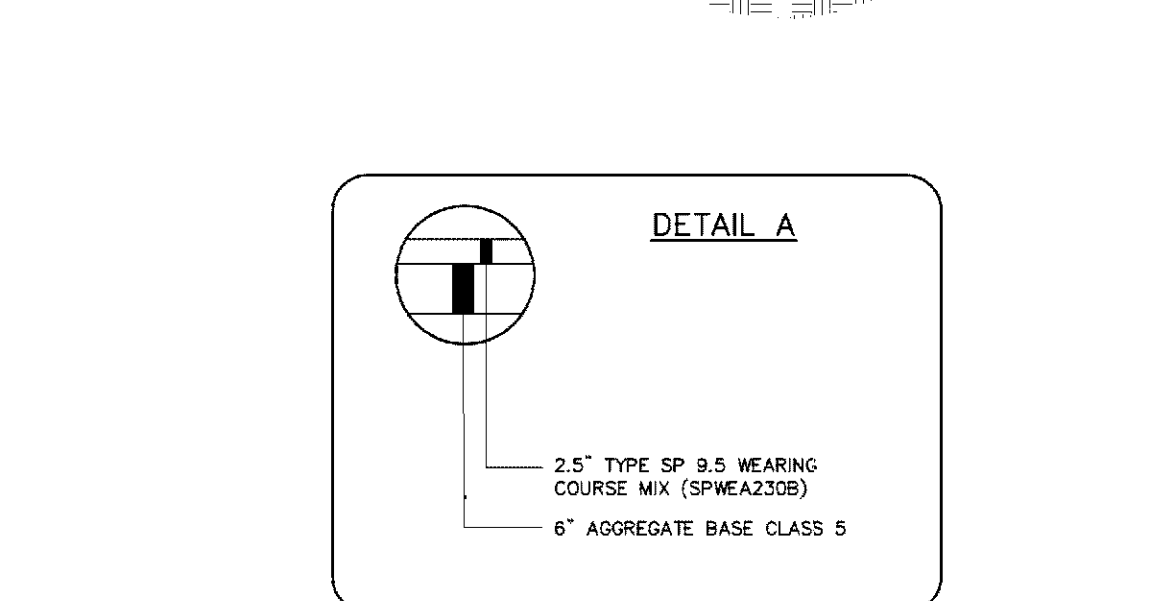
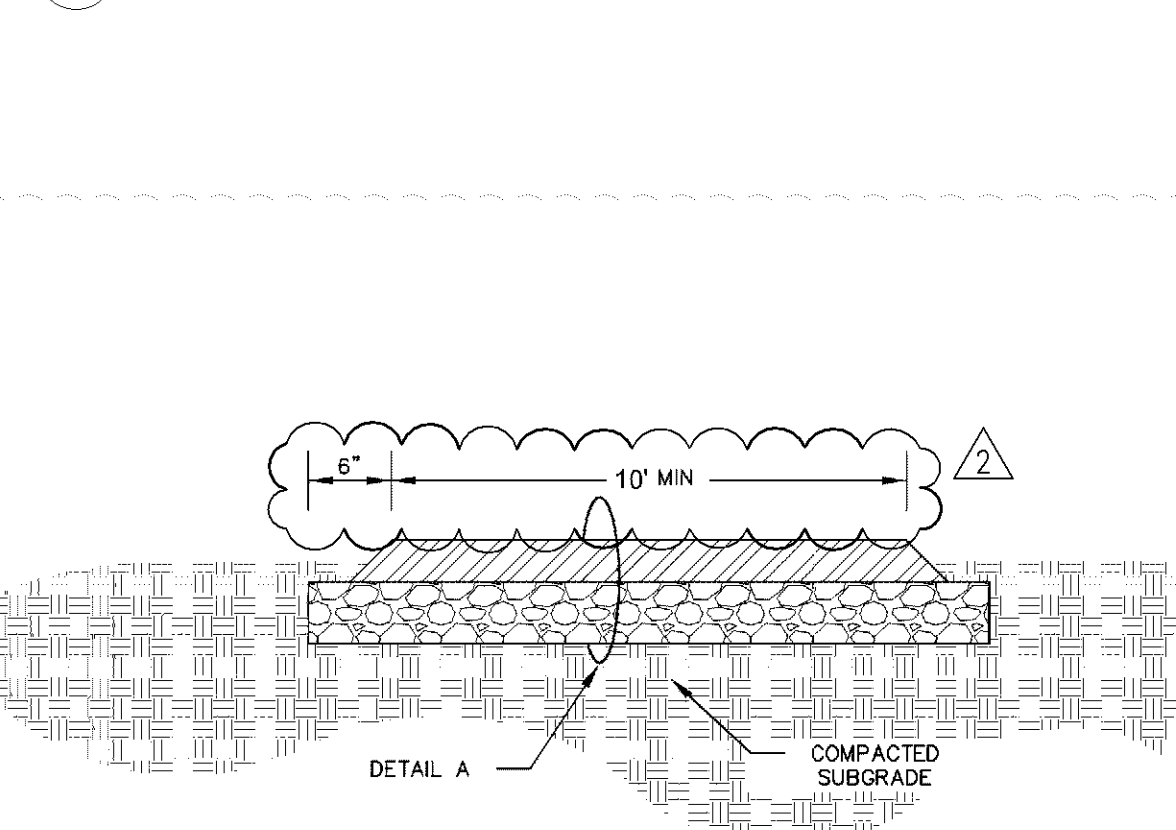


6 LIGHT-DUTY BITUMINOUS PAVEMENT
NOT TO SCALE

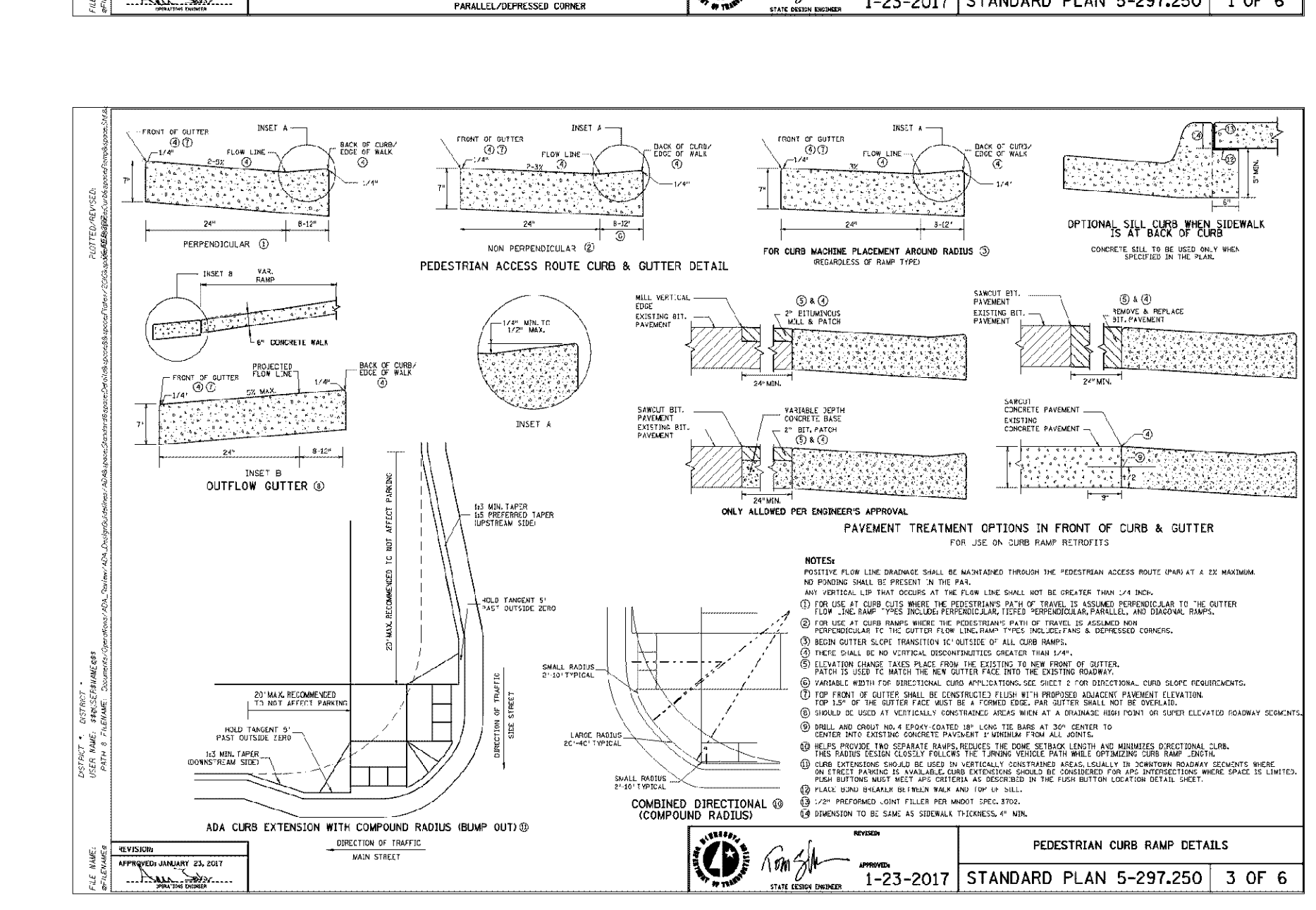
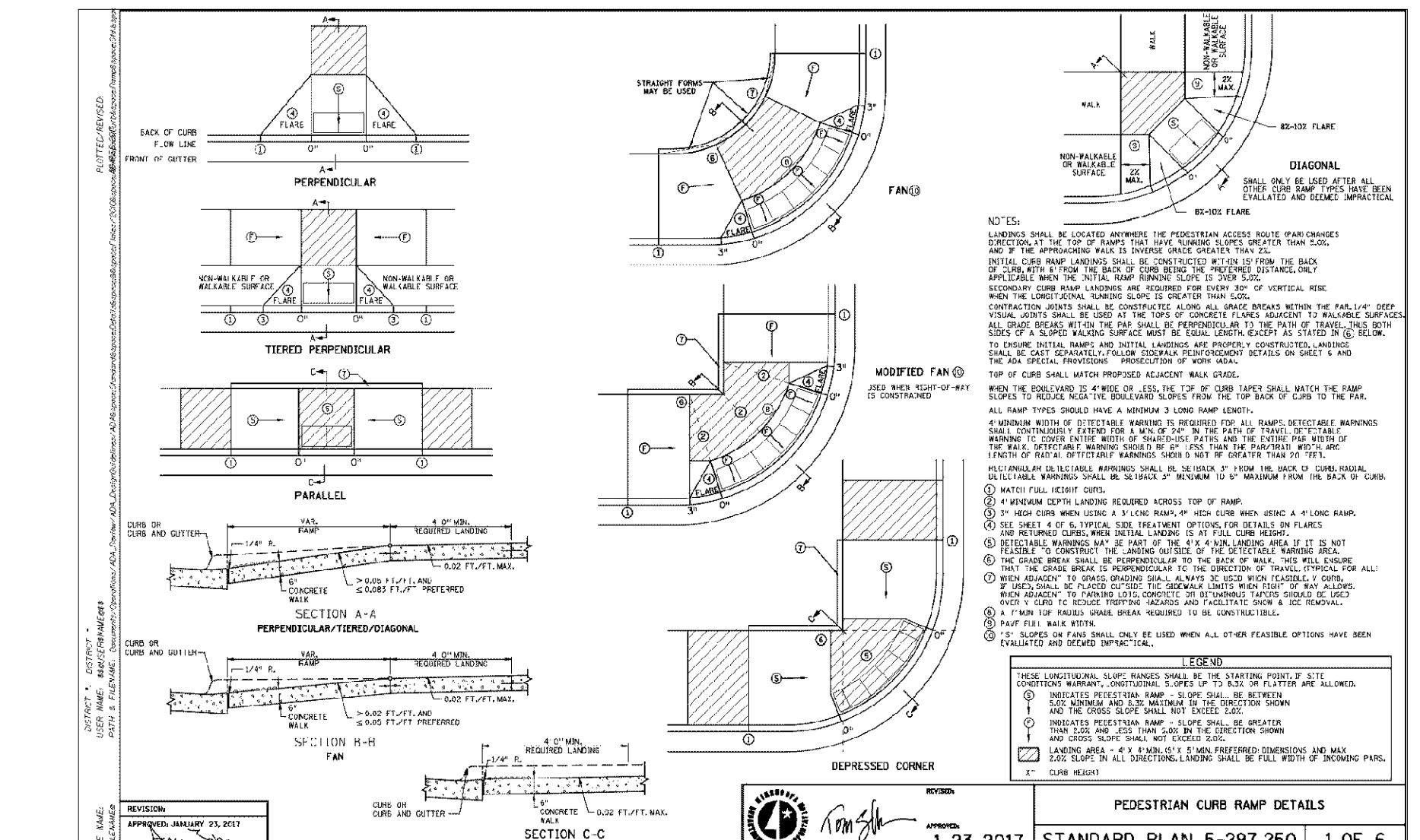


7 HEAVY-DUTY BITUMINOUS PAVEMENT
NOT TO SCALE

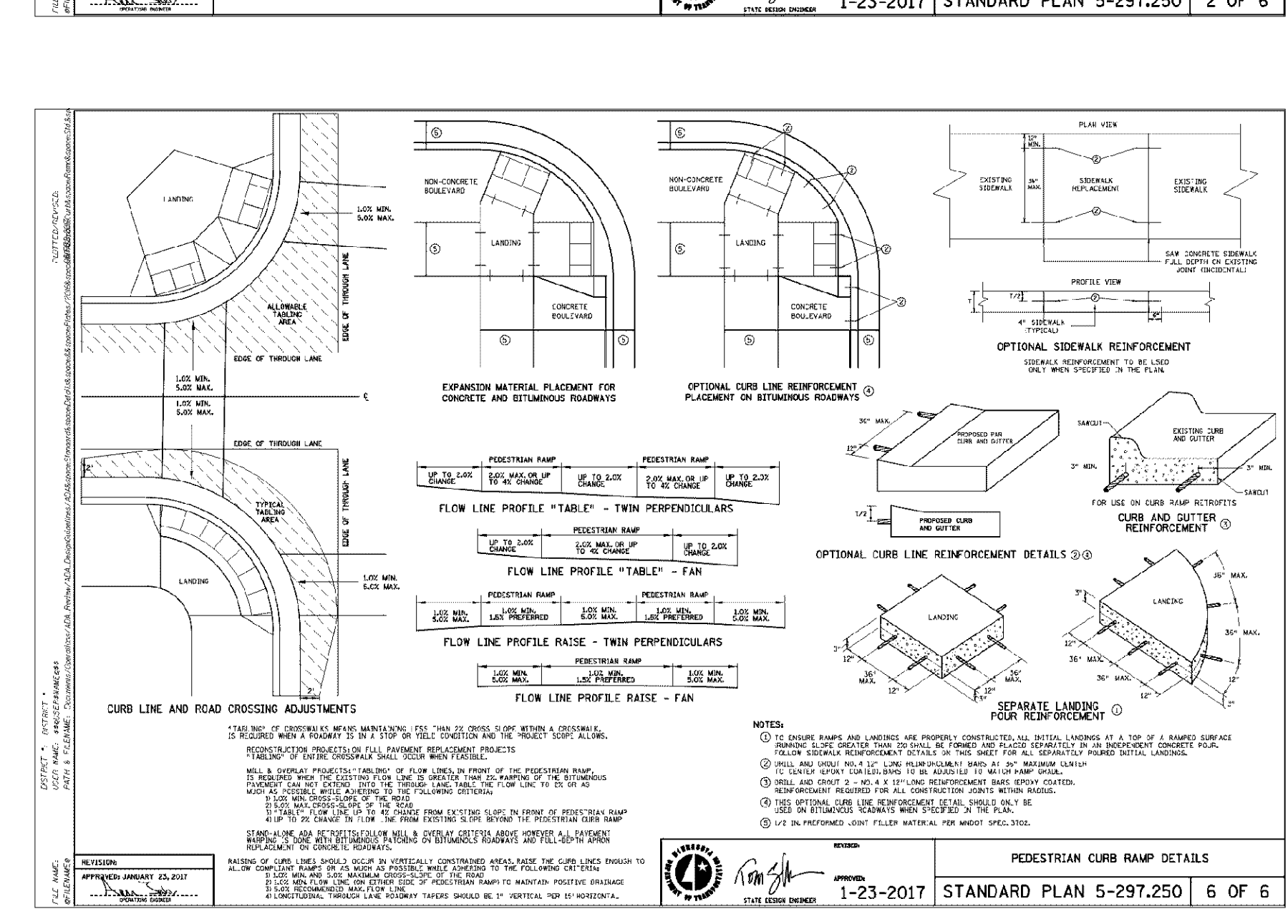
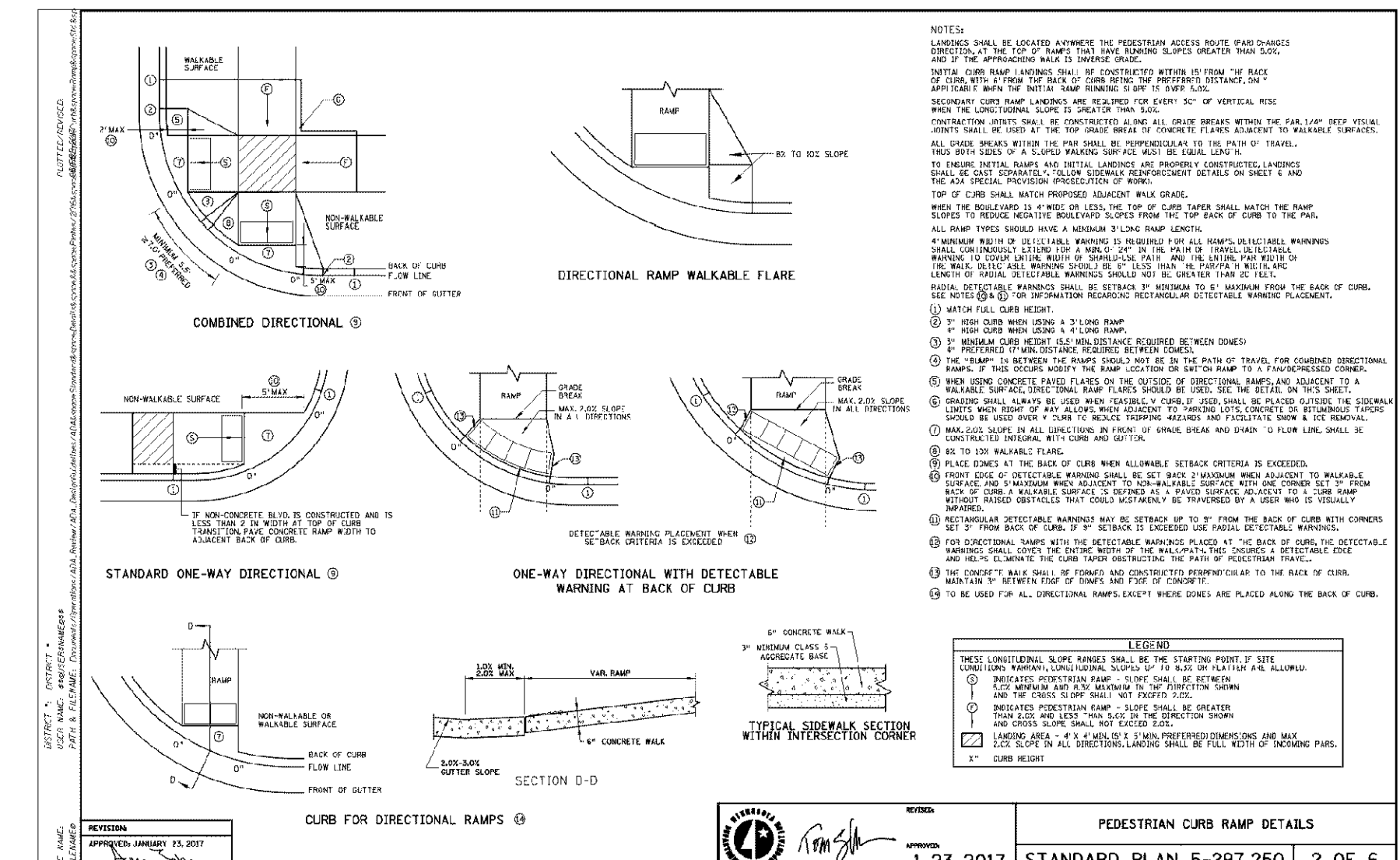
9 BITUMINOUS TRAIL
NOT TO SCALE



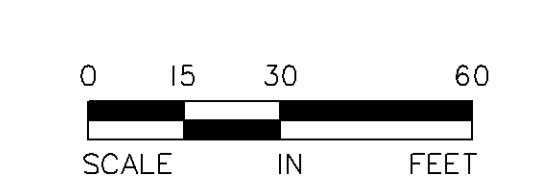
NOTES:
PLACE ALL ASPHALT IN ONE LIFT TO PROVIDE A MINIMUM OF 2.5\"/>



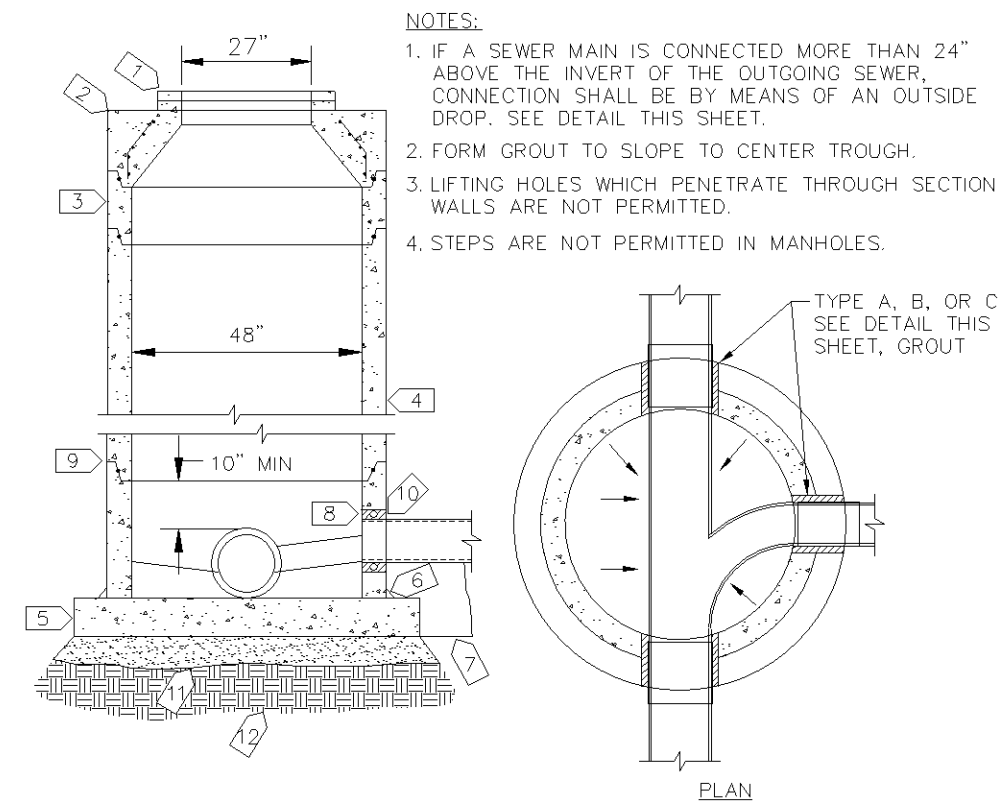
8 PEDESTRIAN CURB RAMP
NOT TO SCALE



8 PEDESTRIAN CURB RAMP
NOT TO SCALE

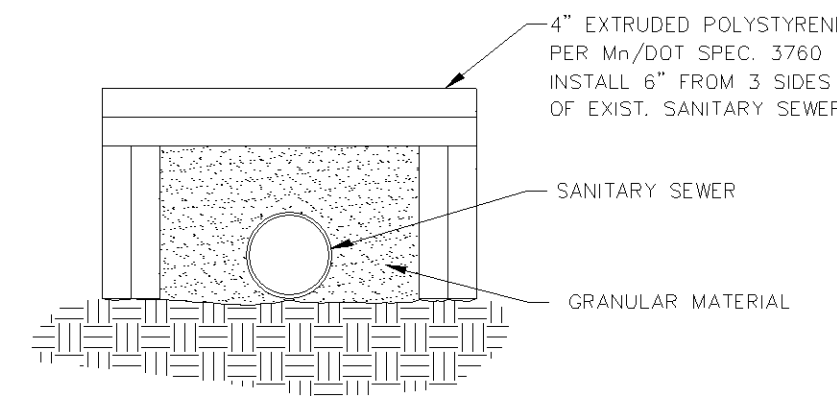


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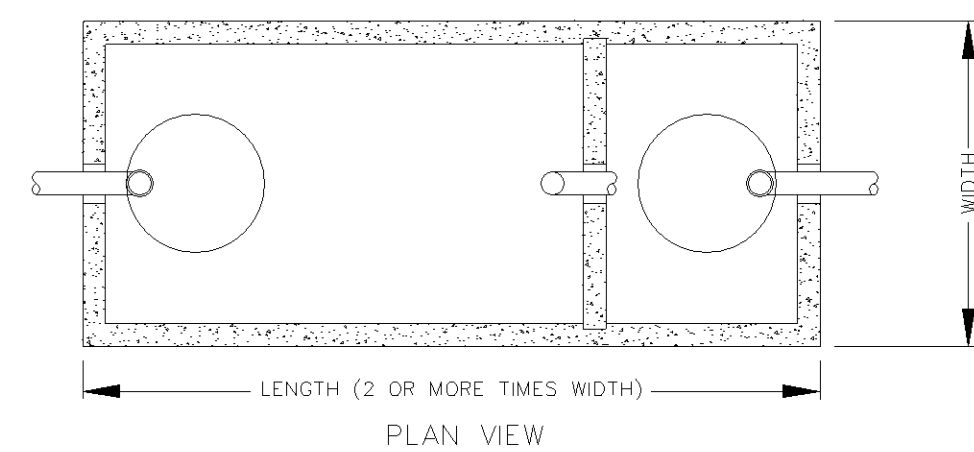


1 400 - STANDARD SANITARY SEWER MANHOLE
NOT TO SCALE 400 - Std San MH.dwg 5/2015

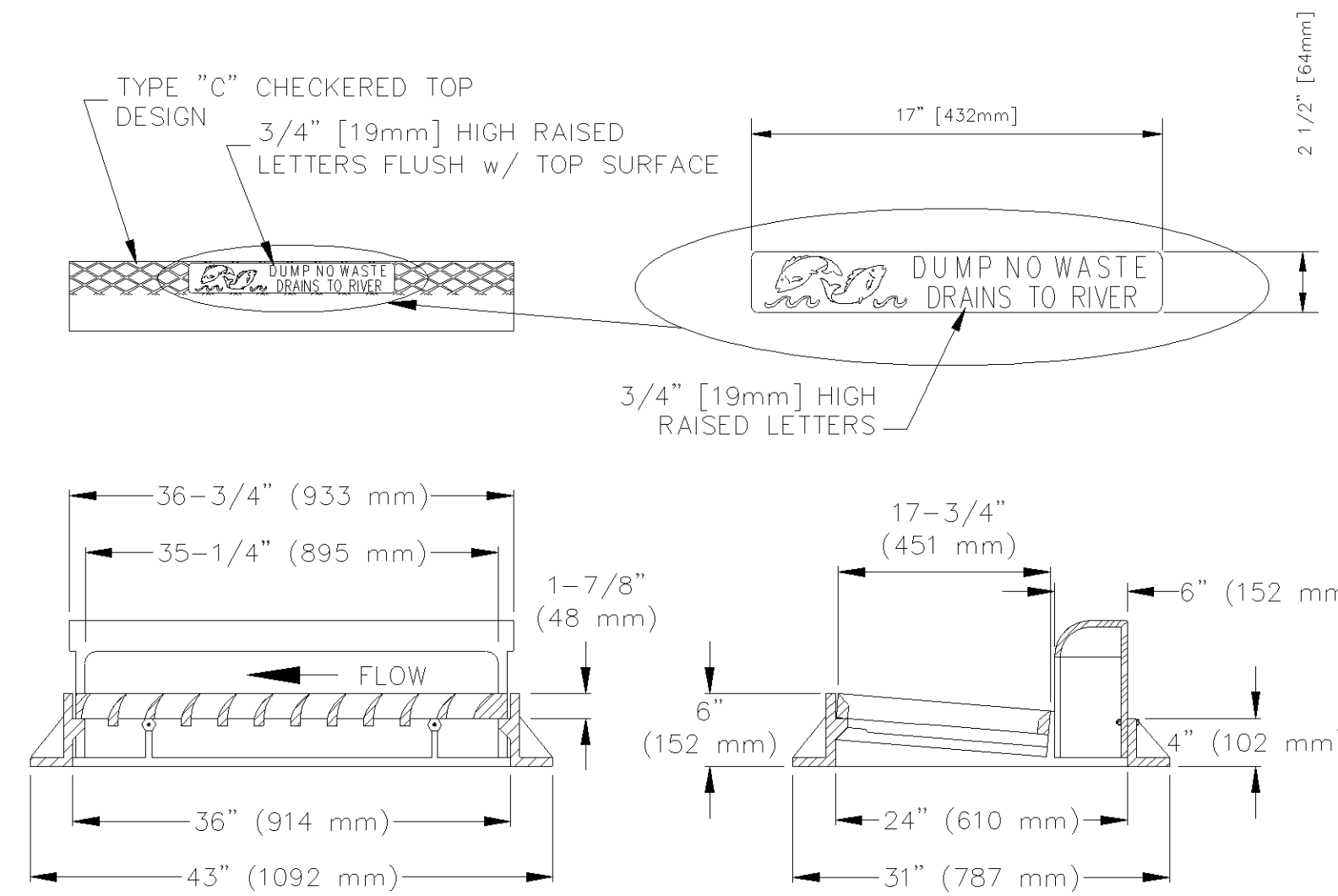
- NOTES:**
- IF A SEWER MAIN IS CONNECTED MORE THAN 24" ABOVE THE INVERT OF THE OUTGOING SEWER, CONNECTION SHALL BE BY MEANS OF AN OUTSIDE DROP. SEE DETAIL THIS SHEET.
 - FORM GROUT TO SLOPE TO CENTER TROUGH.
 - LIFTING HOLES WHICH PENETRATE THROUGH SECTION WALLS ARE NOT PERMITTED.
 - STEPS ARE NOT PERMITTED IN MANHOLES.
- KEY NOTES:**
- MN/DOT S.P.4010 2" ADJUSTING RINGS AS NEEDED [6" MIN. TO 12" MAX.] SET EACH RING IN FULL BED OF MORTAR.
 - MN/DOT S.P.4010 TYPE C ALTERNATE SHORT CONE SECTION.
 - 12" TOP SECTION REQUIRED.
 - USE ONLY PRECAST SECTIONS. NO BRICK OR BLOCK.
 - 8" CAST IN-PLACE CONCRETE OR 6" PRECAST REINFORCED CONCRETE (64" MINIMUM OD).
 - CEMENT MORTAR ALL AROUND.
 - LEAN CONCRETE TO BEAR AGAINST FIRM UNDISTURBED SOIL.
 - PROVIDE WATER TIGHT PIPE CONNECTIONS SEE DETAIL THIS SHEET.
 - O-RING GASKET.
 - FOR CONNECTION TO EXISTING MH'S, CORE DRILL OPENING AND PROVIDE TYPE B WATER TIGHT CONNECTOR.
 - 6" SAND OR FOUNDATION MATERIAL.
 - UNDISTURBED SOIL OR COMPACTED SUBGRADE.



2 411 - SANITARY SEWER INSULATION DETAIL
NOT TO SCALE 411 - Std San MH.dwg 5/2015

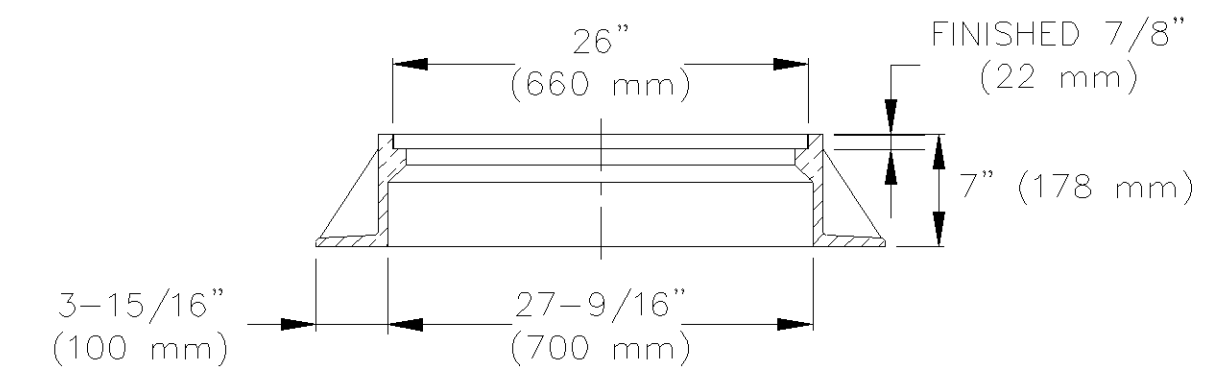


3 504 - RECTANGULAR CATCH BASIN CASTING ASSEMBLY
NOT TO SCALE 504 - Rect. CB.dwg 5/2015

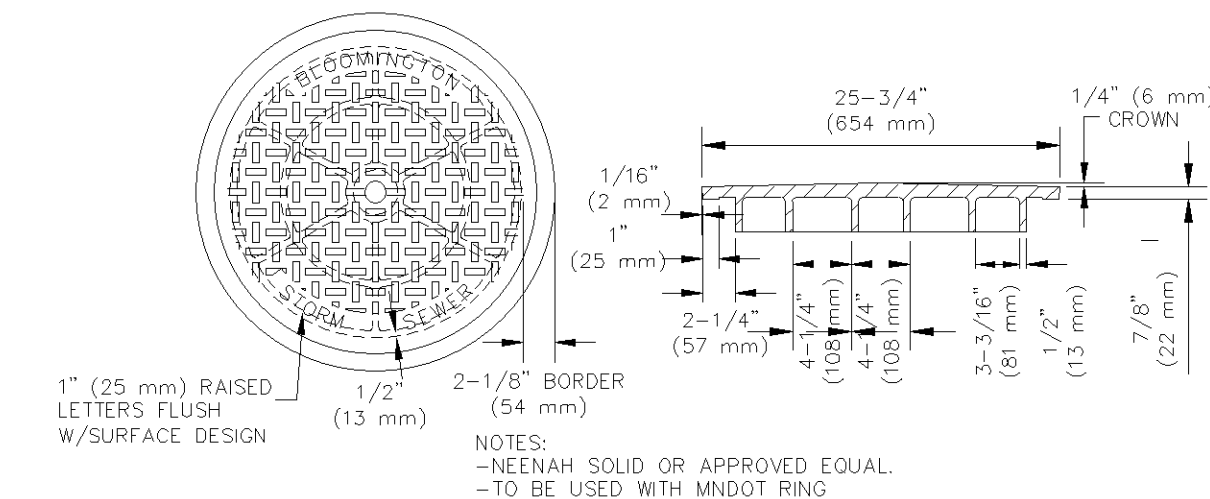


USE NEENAH R-3067 WITH TYPE L GRATE OR APPROVED EQUAL

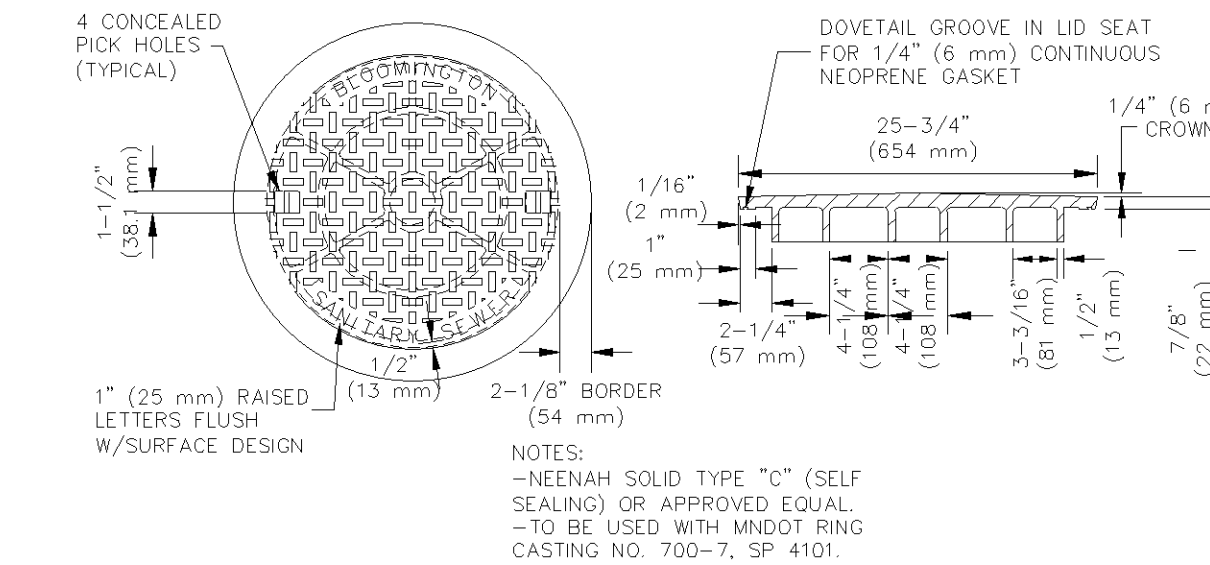
3 504 - RECTANGULAR CATCH BASIN CASTING ASSEMBLY
NOT TO SCALE 504 - Rect. CB.dwg 5/2015



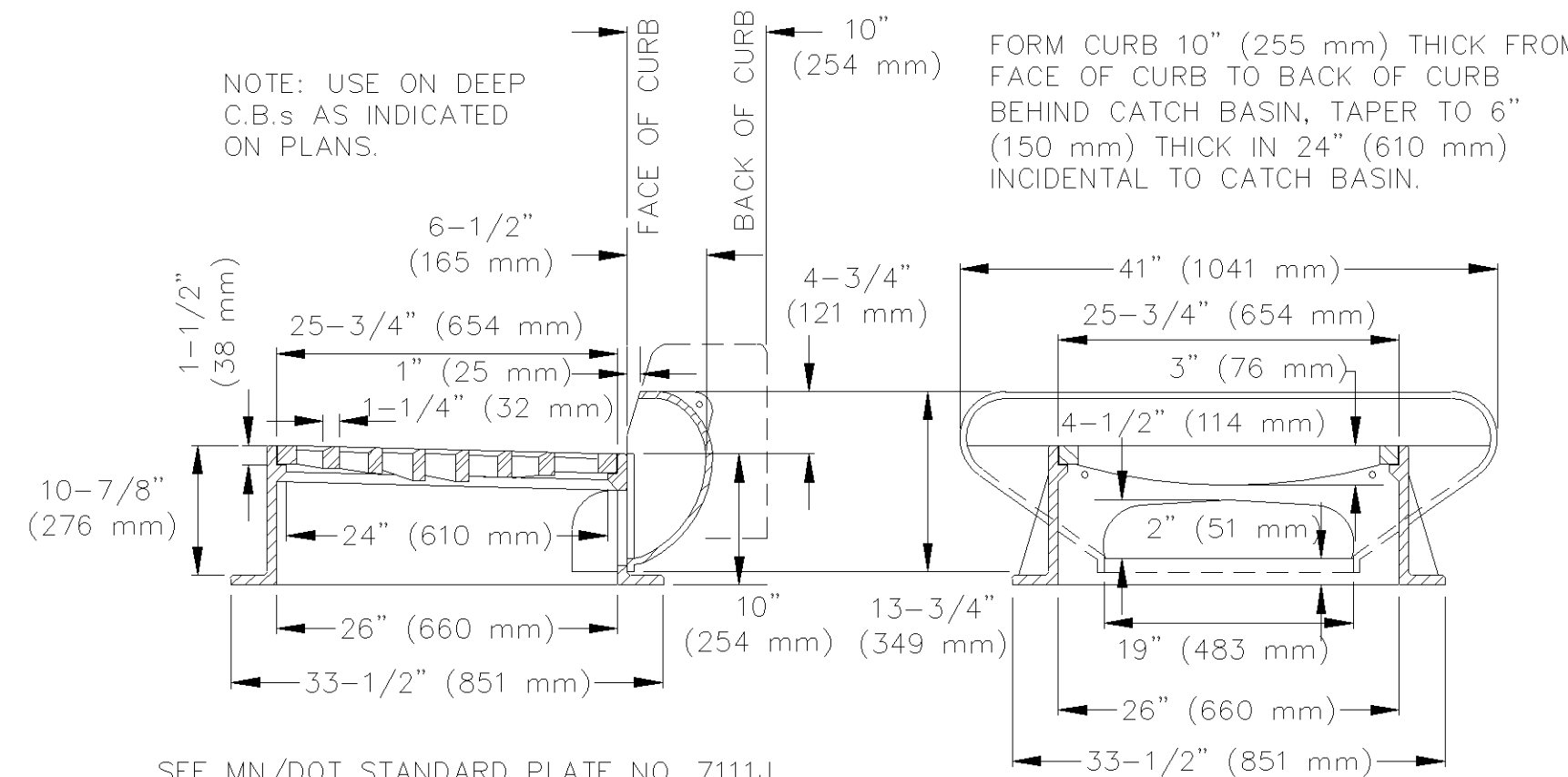
MN/DOT S.P. 4101D CASTING NO. 700-7
4 503 - RING CASTING FOR MANHOLE
NOT TO SCALE 503 - MH Frame.dwg 5/2015



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



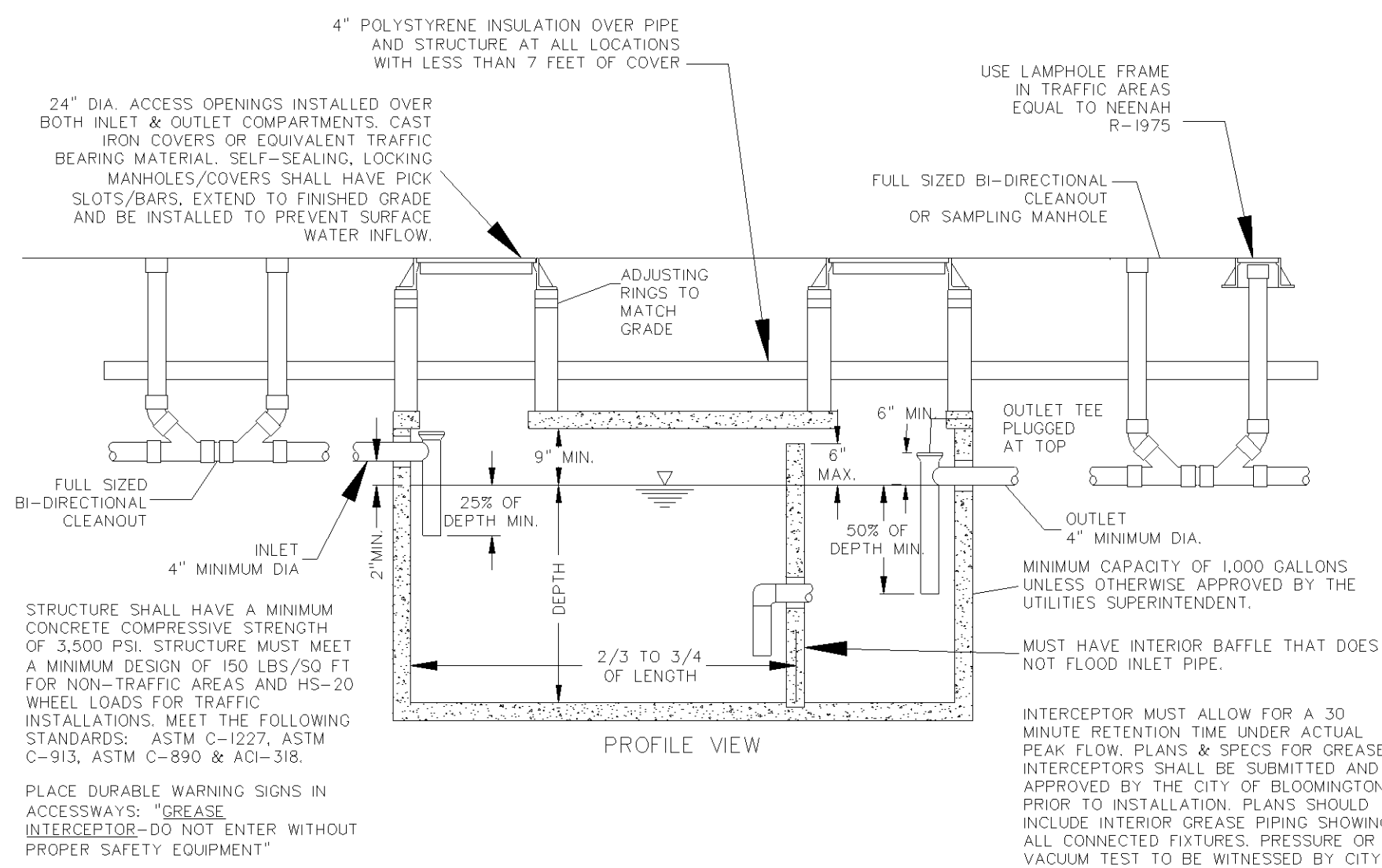
8 501 - STANDARD SANITARY MANHOLE COVER
NOT TO SCALE 501 - Sanitary Cov.dwg 5/2015



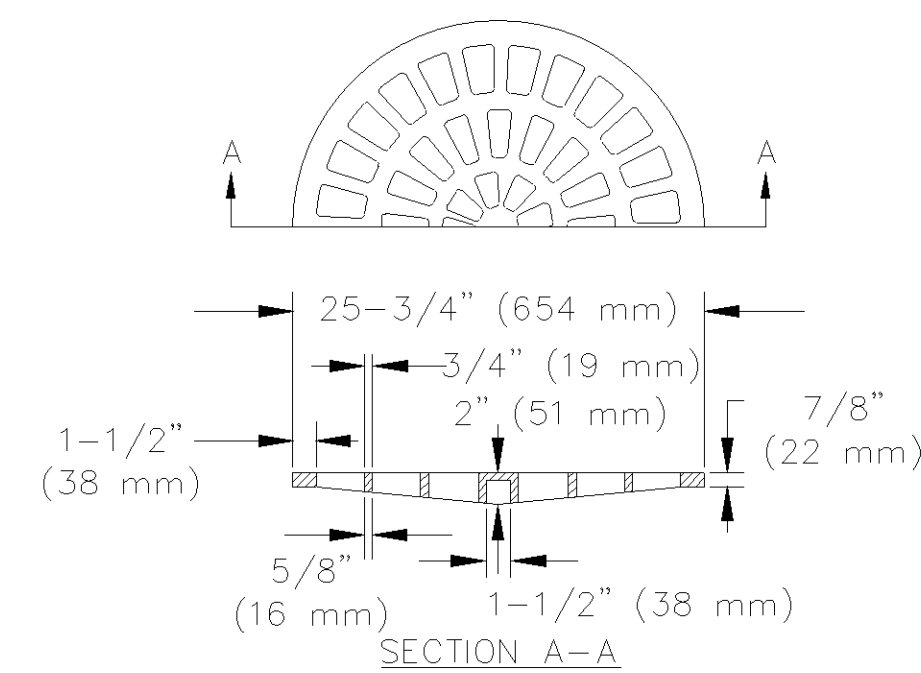
NOTE: USE ON DEEP C.B.s AS INDICATED ON PLANS.

FORM CURB 10" (255 mm) THICK FROM FACE OF CURB TO BACK OF CURB BEHIND CATCH BASIN. TAPER TO 6" (150 mm) THICK IN 24" (610 mm) INCIDENTAL TO CATCH BASIN.

7 505 - ROUND CATCH BASIN CASTING ASSEMBLY
NOT TO SCALE 505 - Round CB.dwg 5/2015



6 412 - GREASE INTERCEPTOR EXAMPLE
NOT TO SCALE - FOR INFORMATIONAL PURPOSES ONLY 412 - Typical Grease Interceptor.dwg 12/2019



NOTES:
-USE NEENAH R-2296 TYPE C GRATE OR APPROVED EQUAL.
-TO BE USED WITH MNDOT RING CASTING NO. 700-7, SP 4101.

9 502 - RADIAL GRATE STORM MANHOLE COVER
NOT TO SCALE 502 - Radial Grate.dwg 4/2009

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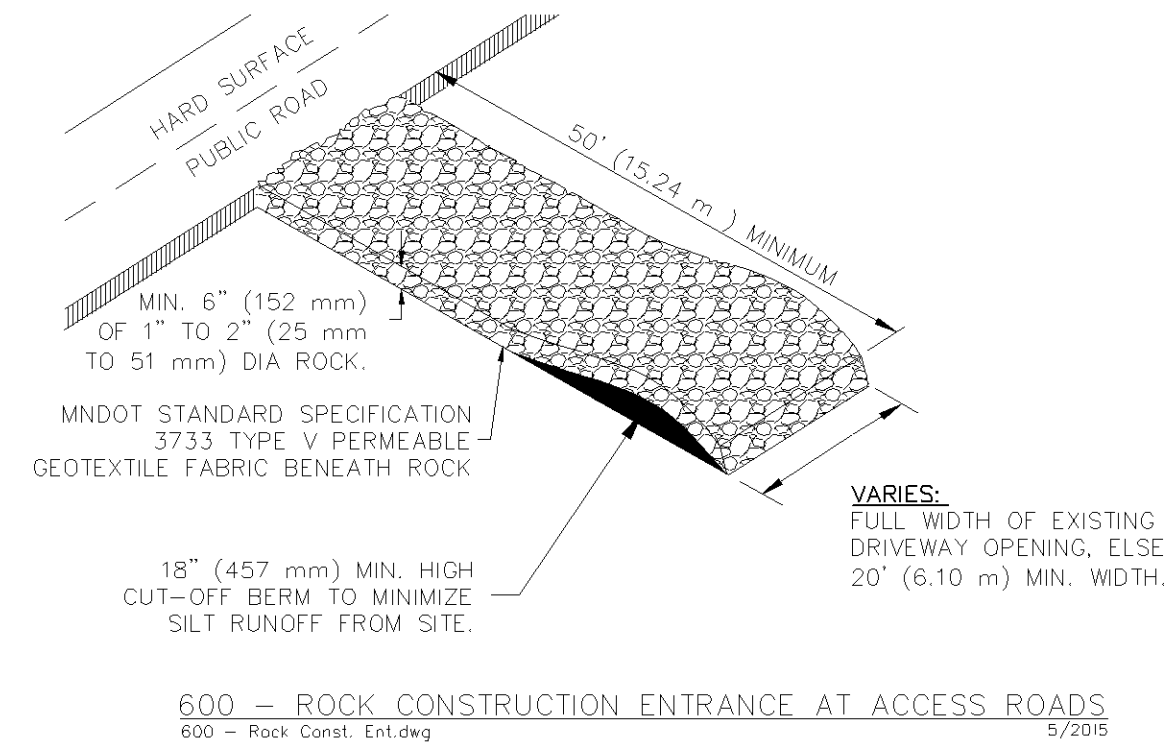
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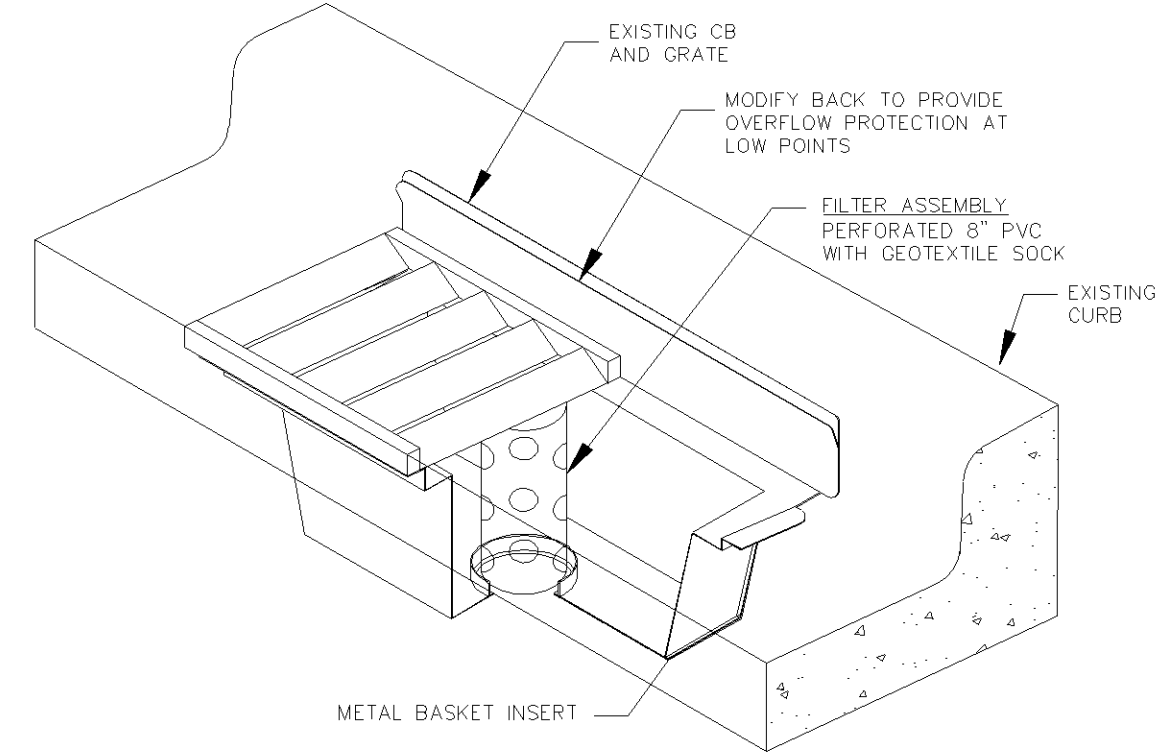
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PROJECT NO: 190123

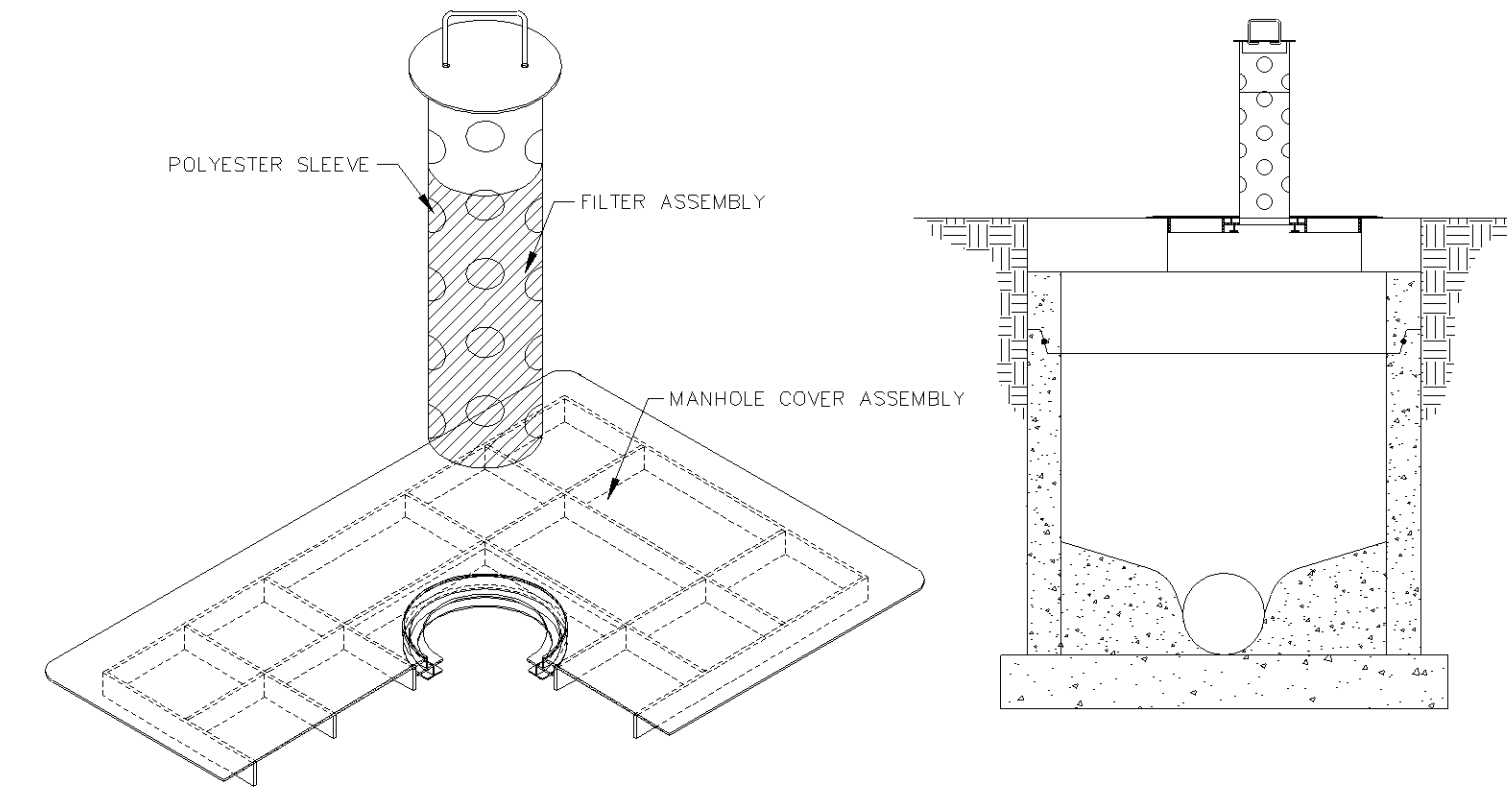
C-7.2



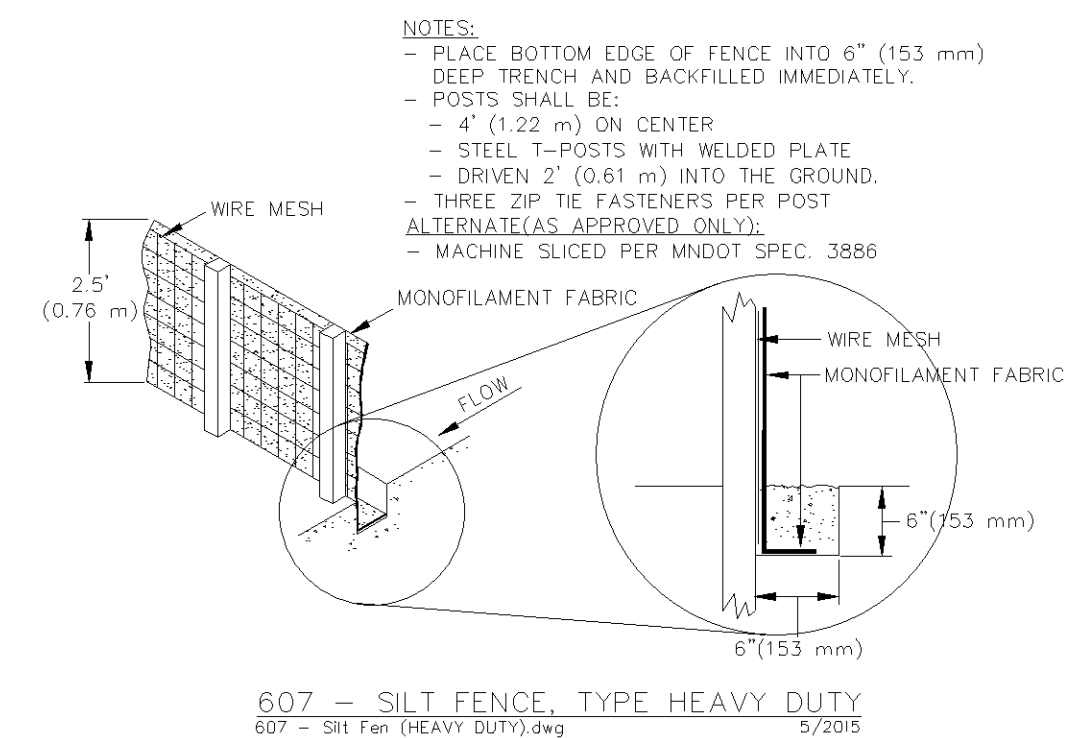
1 600 - ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS
NOT TO SCALE 600 - Rock Const. Ent.dwg 5/2015



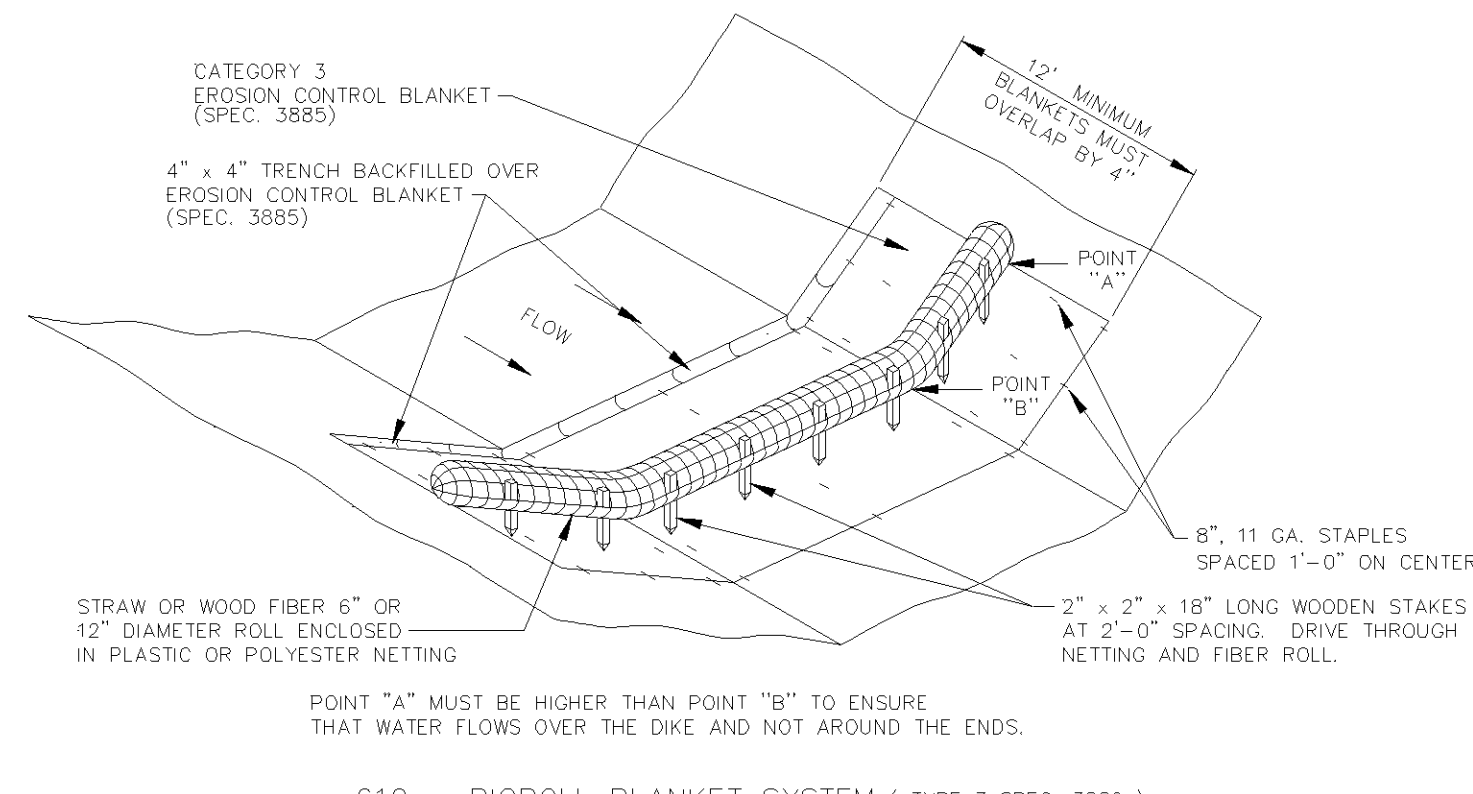
2 601 - INLET PROTECTION, METAL BASKET TYPE
NOT TO SCALE 601 - Wmco (CB).dwg 5/2015



3 602 - INLET PROTECTION, MANHOLE COVER ASSEMBLY
NOT TO SCALE 602 - Wmco (MM).dwg 5/2015



4 607 - SILT FENCE, TYPE HEAVY DUTY
NOT TO SCALE 607 - Srt Fen (HEAVY DUTY).dwg 5/2015



5 610 - BIOROLL BLANKET SYSTEM (TYPE 3 SPEC. 3889)
NOT TO SCALE 610 - Bioroll.dwg 5/2015

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LEGEND

- DECIDUOUS OVERSTORY TREES
- ORNAMENTAL TREES
- EVERGREEN SHRUBS
- DECIDUOUS SHRUBS
- ORNAMENTAL GRASSES/PERENNIAL
- SOIL
- POLY EDGING
- WOODLAND SEED MIX (SEE SEEDING NOTES)

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BLOOMINGTON, MN

LANDSCAPE 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 licensed LANDSCAPE ARCHITECT under the laws of the State of MINNESOTA.

Mark J. [Signature]

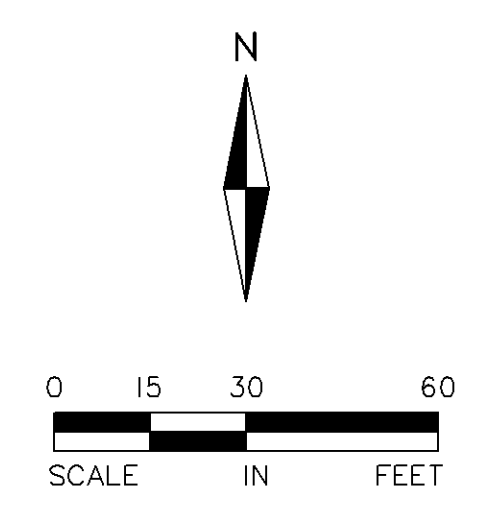
04-04-22 26222
Date License No.

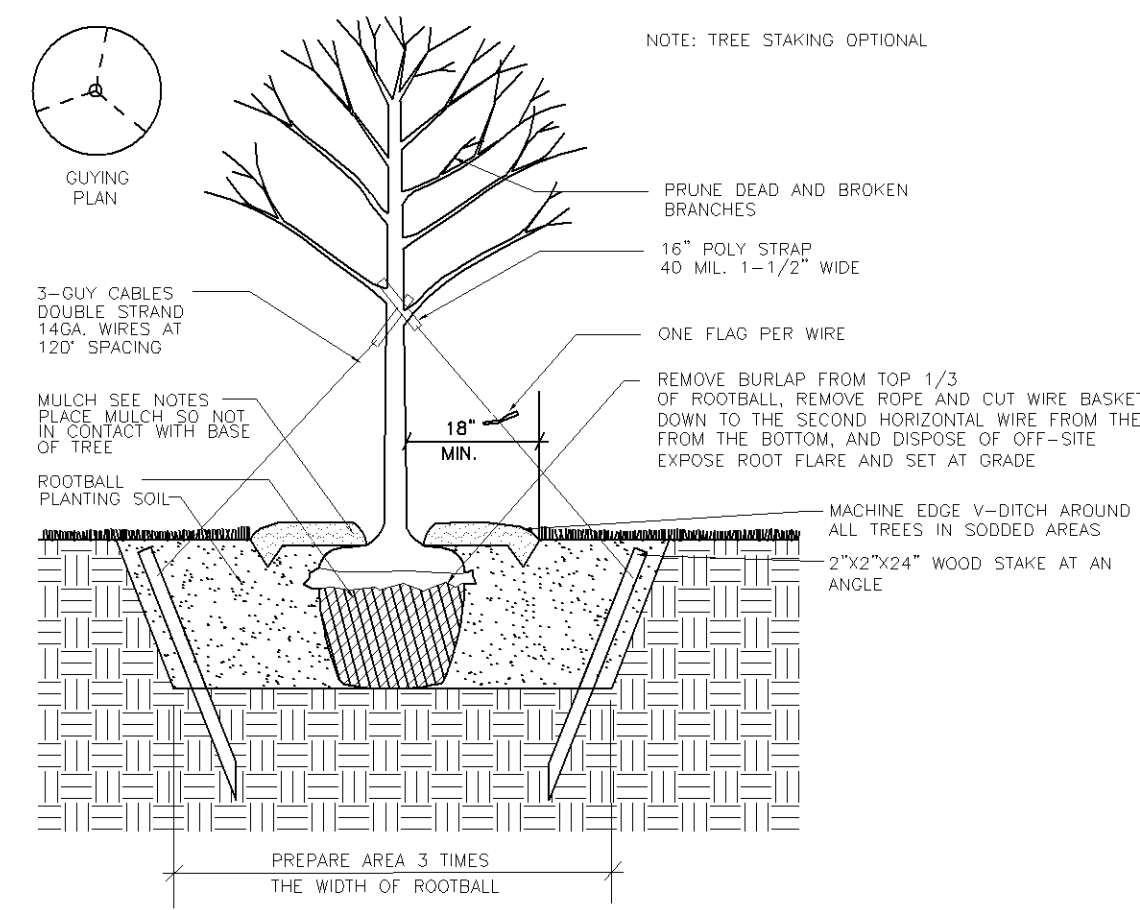
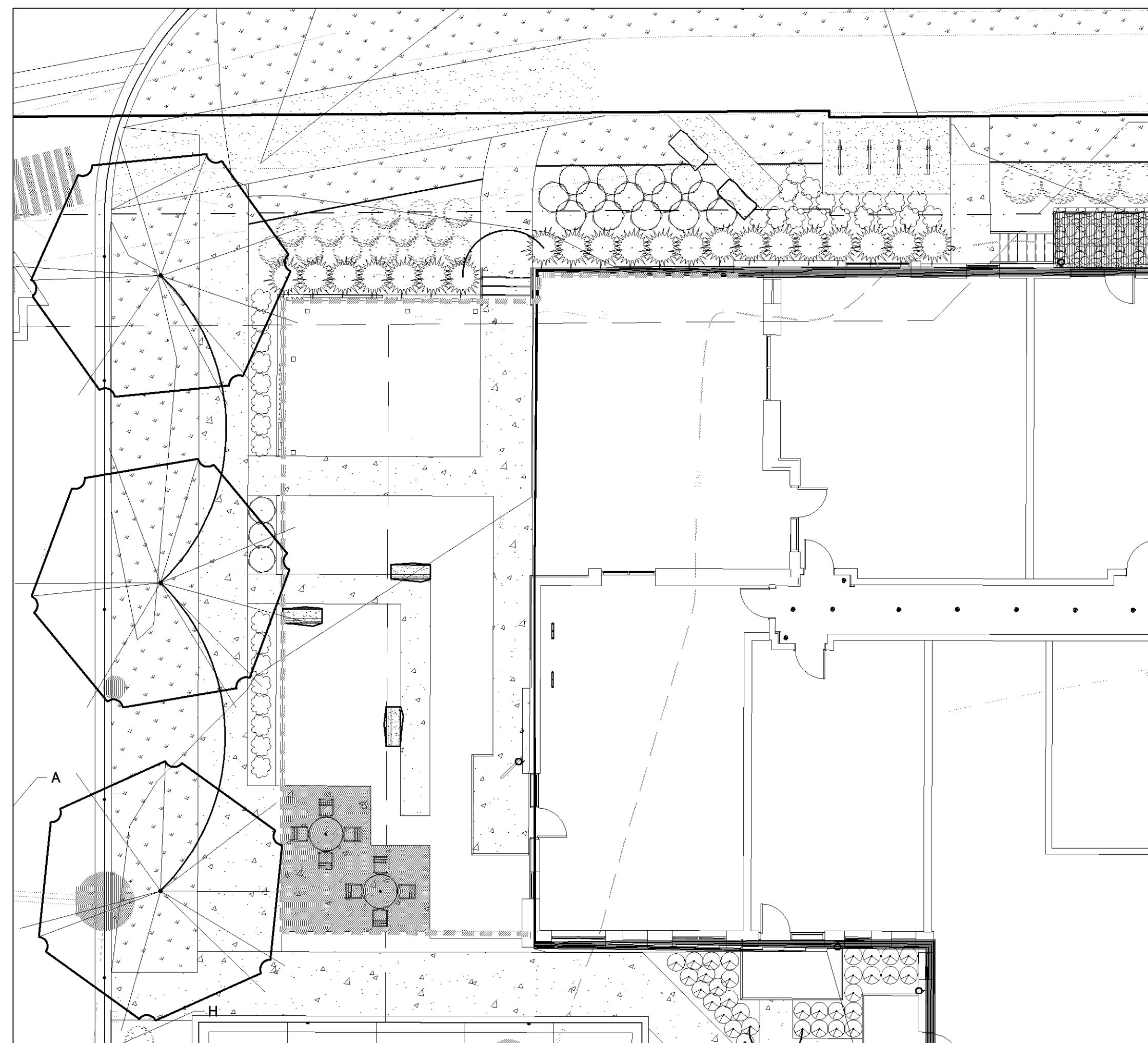
QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE
4-4-22	PERMIT SET

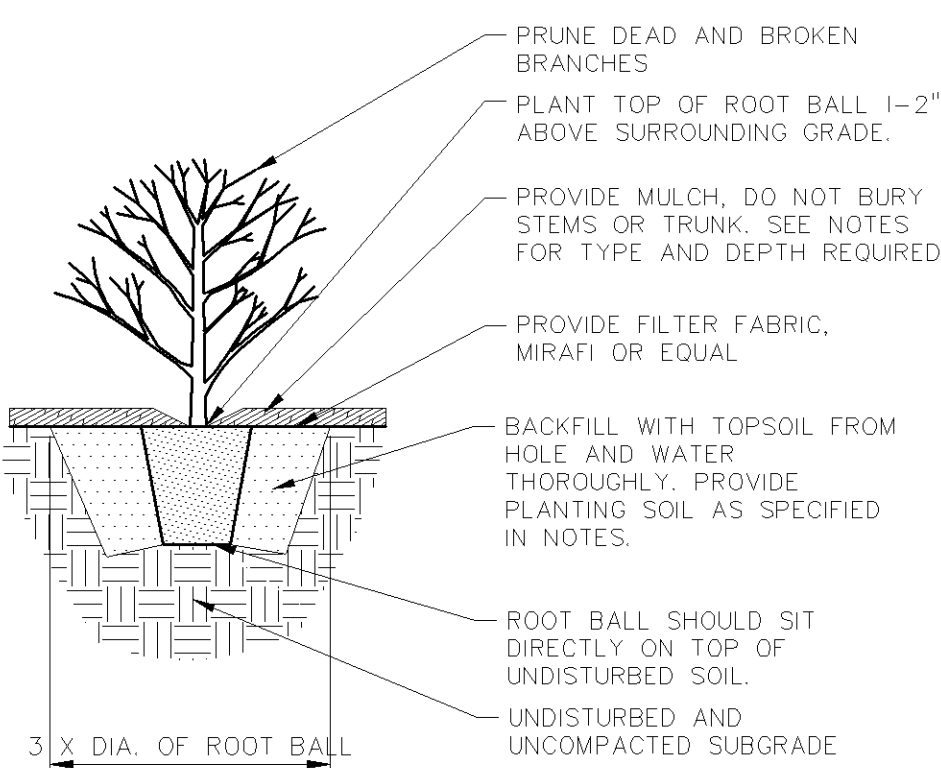
PROJECT TEAM DATA
DESIGNED: DMS/DJN
DRAWN: DMS
PROJECT NO: 190123

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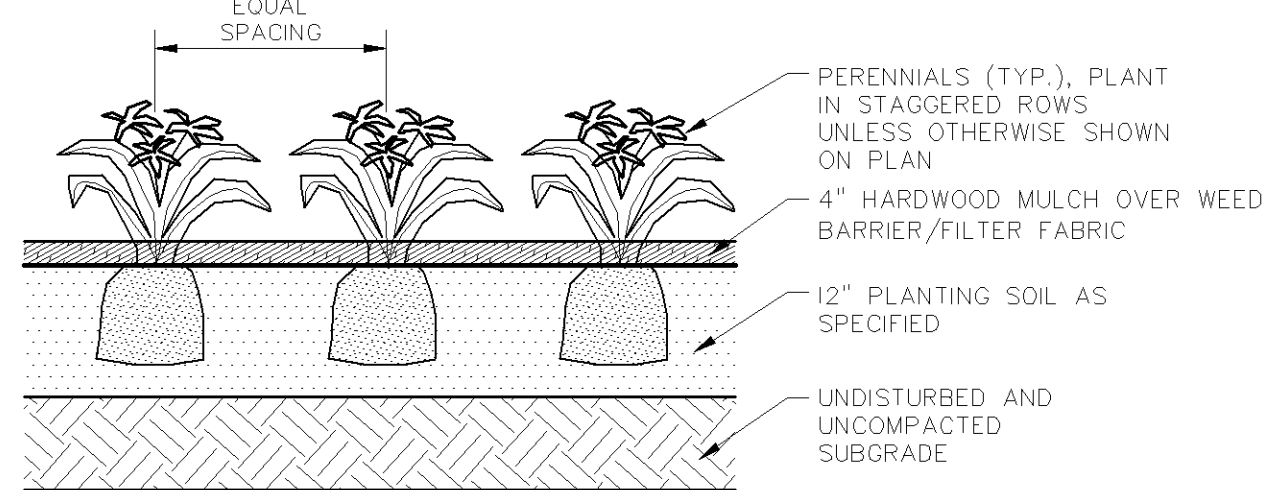




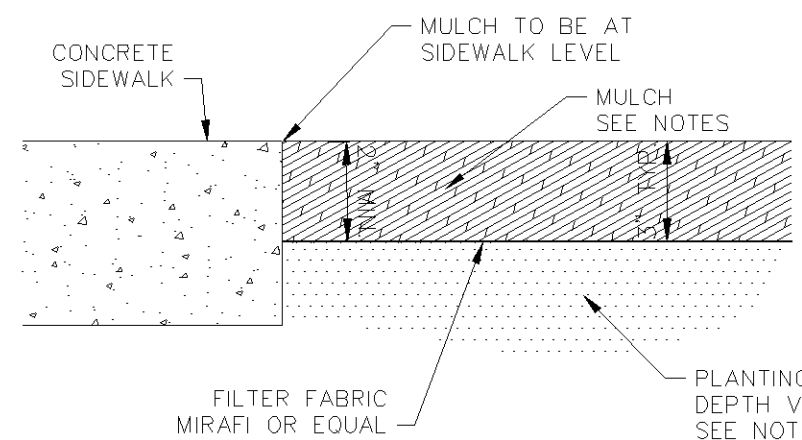
1 TREE PLANTING
NOT TO SCALE



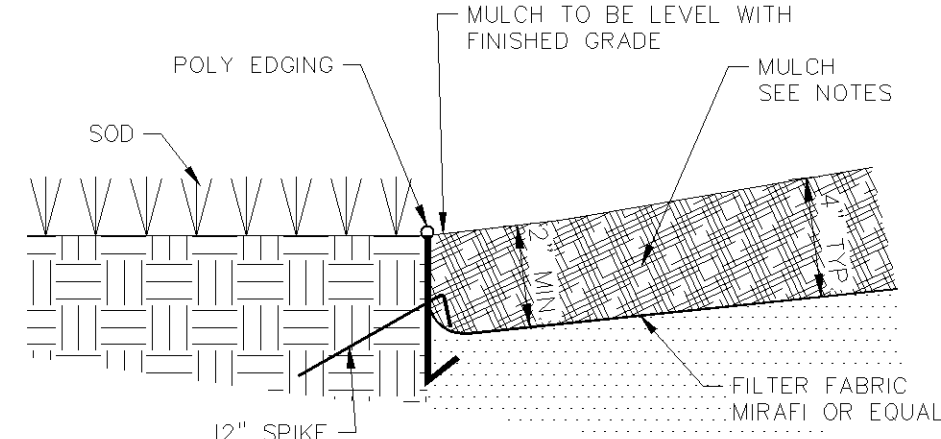
2 SHRUB PLANTING
NOT TO SCALE



3 PERENNIAL PLANTINGS
NOT TO SCALE



4 MULCH AT SIDEWALK DETAIL
NOT TO SCALE



5 MULCH AT SOD DETAIL
NOT TO SCALE

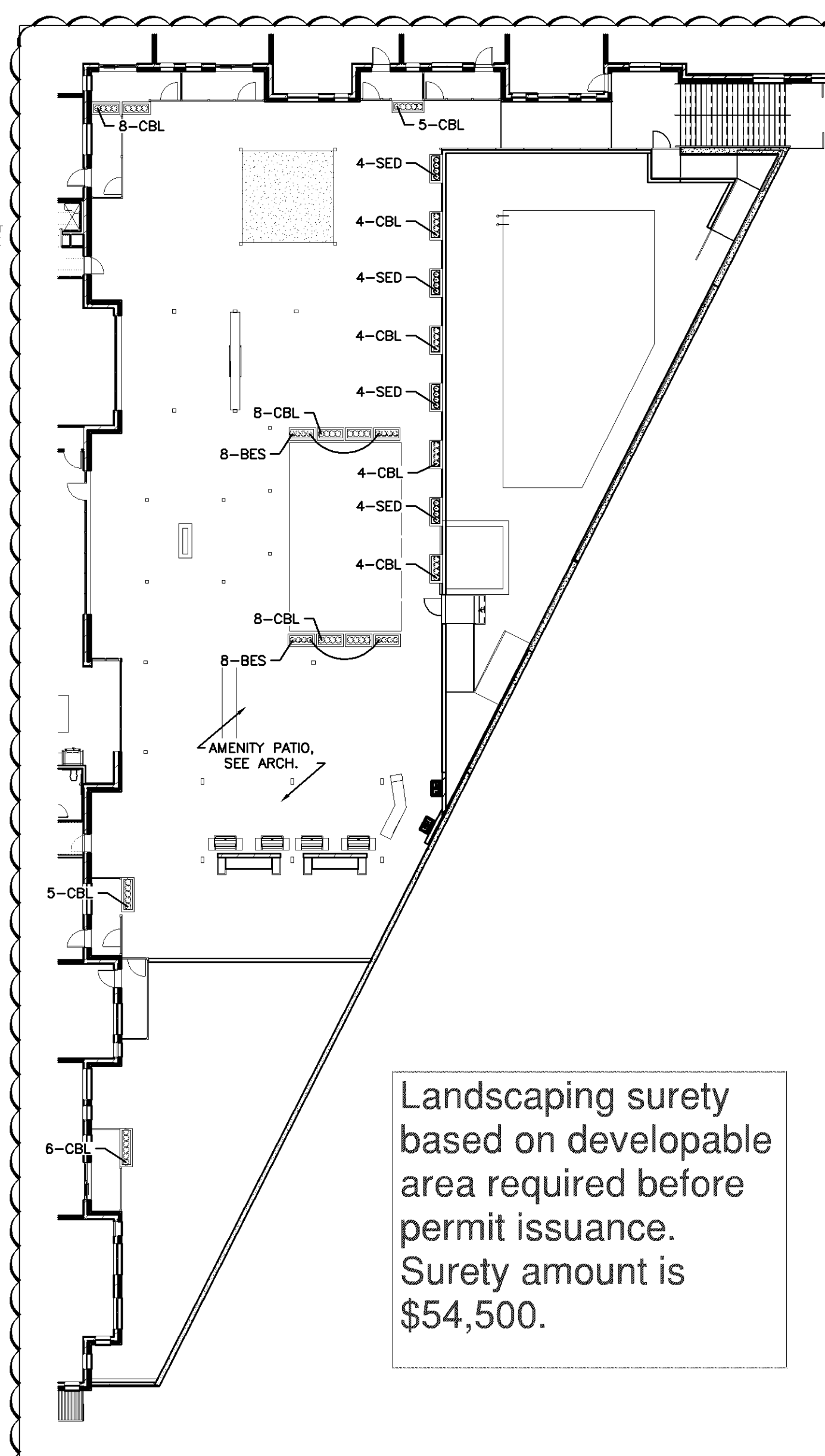
PUBLIC PARK LANDSCAPE ENLARGEMENT

PUBLIC PARK/PLAZA REQUIREMENTS

TOTAL PLAZA AREA REQUIRED:	5,000 SF
PROVIDED:	5,000 SF
ADJUTING PUBLIC WAY REQUIRED (350 LF X 25%):	87.5 LF
PROVIDED (25%):	88 LF
LANDSCAPE/WATER FEATURE REQUIRED (30%):	1,500 SF
PROVIDED (60%):	3,019 SF
SEATING REQUIREMENT REQUIRED (5,000/200 SF):	25 SEATS
PROVIDED (5,000/200 SF):	25 SEATS

LANDSCAPE NOTES:

- CALL GOPHER STATE ONE CALL AT 651-454-0002 FOR LOCATING ALL UNDERGROUND UTILITIES AND TO AVOID DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK.
- INSTALL 4" MIN. TOP SOIL TO ALL SOD AND SHRUB AREAS. FINE GRADE ALL SOD AREAS. INSTALL 12" PLANTING (TOP) SOIL TO ALL ANNUAL/PERENNIAL AREAS.
- STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. HAVE OWNERS REPRESENTATIVE APPROVE ALL STAKING PRIOR TO INSTALLATION.
- ALL SHRUB AREAS UNLESS SPECIFIED AS OTHER ON THE PLAN, TO BE BED MULCHED WITH 4" DEPTH OF HARDWOOD MULCH, DARK BROWN COLOR, OVER FILTER FABRIC, POLY-EDGER TO BE VALLEY VIEW BLACK DIAMOND OR APPROVED.
- ALL MULCH AND ROCK (BOULDERS, COBBLESTONE, ETC) TO BE APPROVED BY OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- INSTALL 4-6" DEPTH SHREDDED HARDWOOD MULCH AROUND ROOT SAUCER OF ALL TREES ISOLATED FROM PLANT BEDS. DO NOT PLACE LANDSCAPE FABRIC OR MULCH ONTO TREE TRUNK.
- PLANTING SOIL SHALL BE 1:1:1 CONSISTING OF 33% SELECT LOAMY TOPSOIL, 33% PEAT MOSS, 33% PIT RUN SAND.
- COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).
- ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL TREE TRUNKS SHALL BE WRAPPED WITH BROWN CREPE TREE WRAP. APPLY WRAP IN NOVEMBER AND REMOVE IN APRIL.
- MAINTAIN ALL PLANT MATERIALS, INCLUDING WATERING, UNTIL THE TIME OF ACCEPTANCE.
- COORDINATE LANDSCAPE INSTALLATION WITH GENERAL CONTRACTOR.
- STAKING AND GUYING OF TREES OPTIONAL; MAINTAIN PLUMBNESS OF TREES FOR DURATION OF WARRANTY PERIOD.
- SWEEP AND WASH ALL PAVED SURFACES AND REMOVE ALL DEBRIS RESULTING FROM LANDSCAPE OPERATIONS DAILY.
- 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 INSTALLATION WITH G.C. SOD AND SHRUB AREAS TO BE ON SEPARATE ZONES. PROVIDE RAIN SENSOR.



Landscaping surety based on developable area required before permit issuance. Surety amount is \$54,500.

POOL DECK LANDSCAPE ENLARGEMENT

POOL DECK SCHEDULE

QTY	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE
PERENNIALS & ORNAMENTAL GRASSES				
16	BES	Little Goldstar Black-eyed Susan	Rudbeckia fulgida 'Little Goldstar'	1 gal. cont.
16	SED	Neon Flash Sedum	Sedum spectabile 'Neon'	1 gal. cont.
56	CBL	Plum Pudding Coral Bells	Heuchera 'Plum Pudding'	1 gal. cont.

LANDSCAPE SCHEDULE

QUANTITY	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE / ROOT TYPE	NOTES
OVERSTORY TREES					
8	NH	Northern Acclaim Honey Locust	Gleditsia triacanthos 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	PB	Paper Birch	Betula papyrifera	10' ht. B&B	Clump Form
3	RB	River Birch	Betula nigra	12' ht. B&B	Clump Form
EVERGREEN TREES					
6	BS	Black Hills Spruce	Picea densata 'Black Hills'	10' ht. B&B	Clump Form
ORNAMENTAL TREES					
6	AD	Adirondack Flowering Crab	Malus 'Adirondack'	1.5' cal. B&B	Straight Trunk, No V-Crotch
SHRUBS					
86	BH	Dwarf Bush Honeysuckle	Diervilla lonicera	18" ht. cont.	Min. 5 canes at ht. spec.
48	GM	Soldierhead Spiraea	Spiraea x 'Soldierhead'	18" ht. cont.	Min. 5 canes at ht. spec.
9	HA	Holmström Arborvitae	Thuja occidentalis 'Holmstrupp'	6' ht. B&B	Full Form
60	LH	Little Light Hydrangea	Hydrangea paniculata 'Little Light'	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 Juniper	Juniperus sibirica 'Scandia'	18" ht. cont.	Min. 5 canes at ht. spec.
42	TY	Taunton Yew	Taxus x media 'Taunton'	24" ht. cont.	Full Form
PERENNIALS & ORNAMENTAL GRASSES					
86	CBL	Champagne Coral Bells	Heuchera 'Champagne'	1 gal. cont.	
8	GRZ	Miscanthus Grasselia	Miscanthus sinensis 'Grasselia'	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	Perovskia atriplicifolia 'Little Spire'	1 gal. cont.	
30	SAG	Sage Hosta	Hosta 'Sage'	1 gal. cont.	
90	WLC	Walker's Low Catmint	Nepeta x faassenii 'Walker's Low'	1 gal. cont.	

LANDSCAPE REQUIREMENTS

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

LANDSCAPE CALCULATIONS:
TREES REQUIRED: 44 TREES
(1/2,500 SF DEVELOPABLE)
TREES PROVIDED: 44 TREES
SHRUBS REQUIRED: 109 SHRUBS
(1/1,000 SF DEVELOPABLE)
SHRUBS PROVIDED: 268 SHRUBS

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

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 SEED)
APPLY SEED PER THE FOLLOWING. MULCH SEEDED AREAS WITH MDDOT TYPE 3 (MCA CERTIFIED WEED FREE) MULCH AT A RATE OF 1 TON PER ACRE WITHIN 48 HOURS OF SEEDING. MULCH SHOULD THEN BE DISC ANCHORED TO KEEP IT FROM BLOWING AWAY.
SEEDING SHALL BE APPLIED FROM APRIL 15 - JUNE 30 OR NOVEMBER 1 - 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 (MCA). 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 REFERENCE.
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 RESEED. REFERENTILIZED 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 GRADING, 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 DEVELOPMENT.
- 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-COMPACTING 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-COMPACTING, 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 EQUIPMENT, IT IS REQUIRED THAT THE FINAL 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-COMPACTING 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 PLANTING.

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AMERICAN SQUARE APARTMENTS
BLOOMINGTON, MN

LANDSCAPE DETAILS

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 LANDSCAPE ARCHITECT under the laws of the State of MINNESOTA.
Mark Zilk

04-04-22 26222
Date License No.

QUALITY ASSURANCE/CONTROL

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

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

L-2.0