

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS

OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF

ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED

DURING CONSTRUCTION AT NO COST TO THE OWNER.

CASE #PL2020-112

_	PROPERTY LINE	•	FOUND MONUMENT	\	LIGHT / LIGHT POLE	oP	ELECTRICAL BOX		
	ADJACENT PROPERTY LINE PERMANENT EASEMENT	0	SET MONUMENT	•		_	ELECTRICAL DOV		CONCRETE SURFACE
	TEMPORARY EASEMENT		CATCH BASIN (STORM)	Ø	POLE	Ω	ELECTRICAL BOX	No. of the same	
	RIGHT OF WAY	Ш	,	\longleftarrow	GUY ANCHOR	\boxtimes	PEDESTAL		
TV-BUR	UNDERGROUND CABLE TV		STORM INLET (FES)			-	_		
P-BUR	UNDERGROUND POWER				SPRINKER BOX	t	_		
—— FO——— FO———	UNDERGROUND FIBER OPTIC	(S)	SANITARY MANHOLE			\boxtimes	ELECTRICAL BOX		
———— P-OH ————	OVERHEAD POWER LINE	$\stackrel{\sim}{\sim}$		(•)	DECIDUOUS TREE				
— T-BUR —— T-BUR ——	UNDERGROUND TELEPHONE	(ST)	STORM MANHOLE	کریک		□ ^H	HANDHOLE		
······································	UNDERGROUND TELEPHONE								
>>	SANITARY SEWER LINE	M	GATE VALVE	\bigvee	CONIFEROUS TREE	٥ ^{FP}	FLAG POLE		
>>>>	STORM SEWER LINE	- ф-	HYDRANT						
	WATERMAIN LINE	·-		I					

	0	40	80
	SCALE	IN	FEET
NOTE.			

INFORMATION SHOWN IS FROM

A TOPO SURVEY PREPARED BY

SEH AND DATED JUNE, 2020.

EXISTING CONDITIONS

SEAGATE

MINNESOTA CAMPUS PARKING RAMP

BWBR

380 St. Peter Street, Ste. 600 Saint Paul, MN 55102 651.222.3701 bwbr.com

LOUCKS

CIVIL ENGINEERING
LAND SURVEYING
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ENVIRONMENTAL
7200 Hemlock Lane, Suite 300
Maple Grove, MN 55369

LOUCKS PROJECT NO. 20244

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

Name
Trevor D. Gruys - PE

Date **07-08-2020** Lic./Reg. No. **53706**

CITY SUBMITTAL 07-08-202

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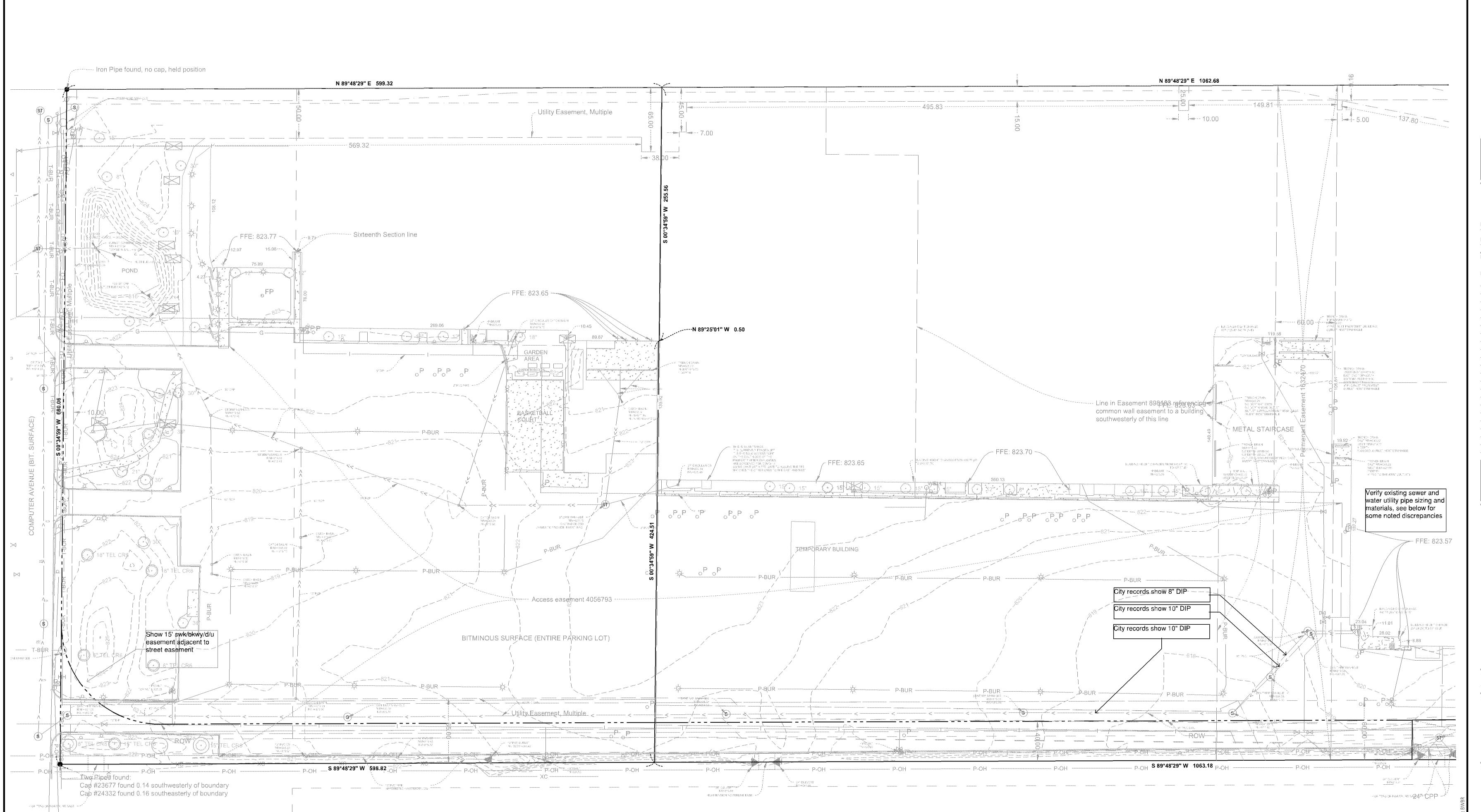
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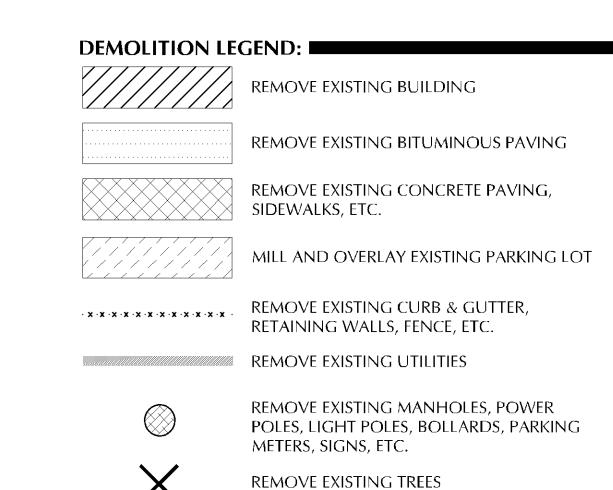
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TV-BUR	UNDERGROUND CABLE TV		STORM INLET (FES)	·	SPRINKER BOX		=	
——— P-BUR ————————————————————————————————————	UNDERGROUND POWER UNDERGROUND FIBER OPTIC	(S)	SANITARY MANHOLE	<u></u>	GI KIRKEN BOX		ELECTRICAL BOX	
———— P-OH ————————————————————————————————————	OVERHEAD POWER LINE UNDERGROUND TELEPHONE	(ST)	STORM MANHOLE	(•)	DECIDUOUS TREE		4	
	UNDERGROUND TELEPHONE			٠		□H⊦		
>>	SANITARY SEWER LINE	M	GATE VALVE	\searrow	CONIFEROUS TREE	o ^{FP}	FLAG POLE	
	STORM SEWER LINE	-♦-	HYDRANT					

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SEH AND DATED JUNE, 2020.

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SEAGATE

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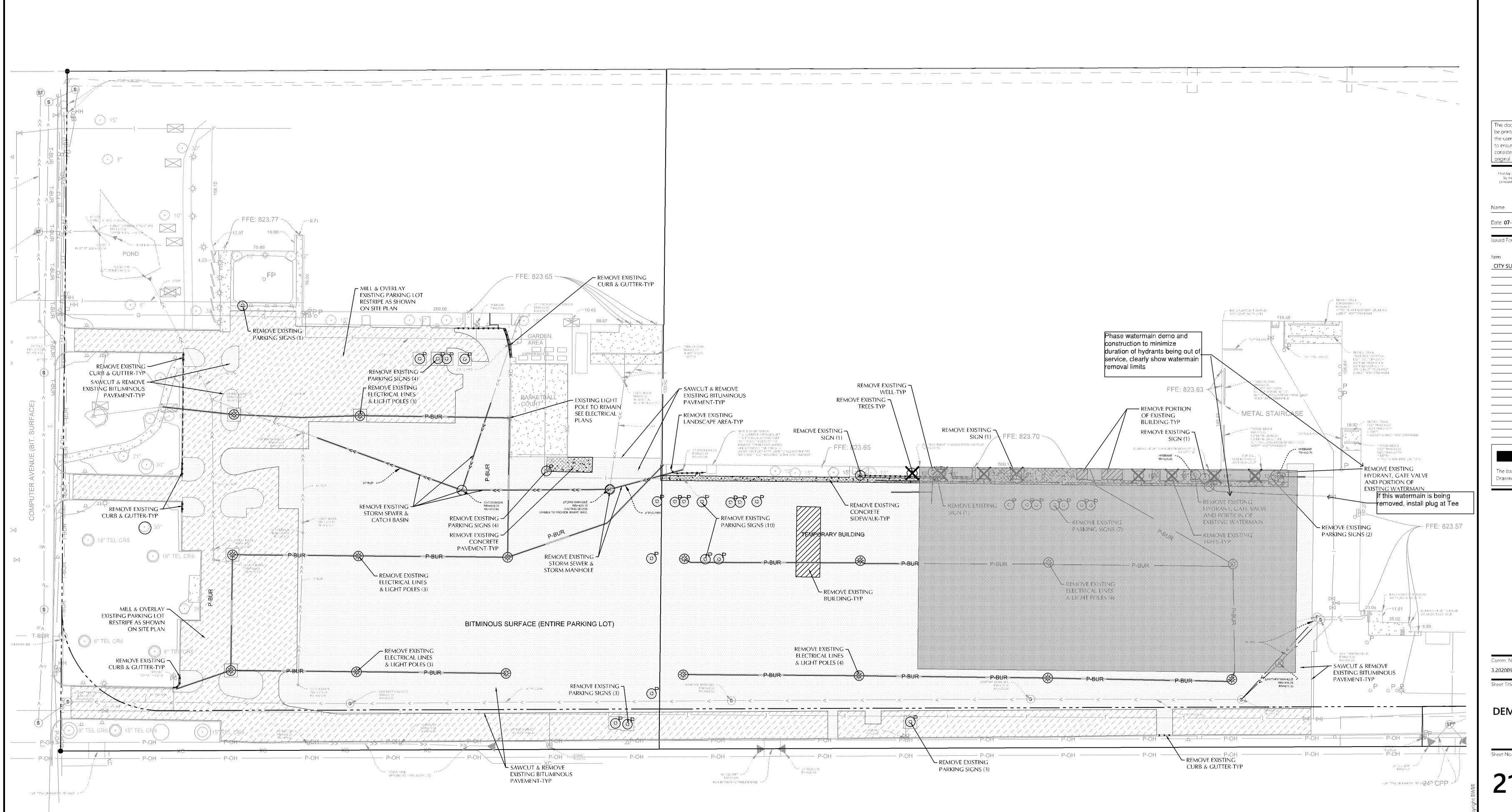
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DEMOLITION PLAN





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

Emergency responder radio coverage meeting the requirements of appendix L in the 2015 MSFC shall be provided throughout the property and within the structures.

CASE #PL2020-112

Parking requirement and supply must be further discussed and analyzed with Planning and Traffic staff given multi-jurisdictional complexity and requested proof of parking. Additional information on the use characteristics and areas of the future building addition must be submitted to complete the parking analysis of the development proposed in the Preliminary Development Plans.

SITE DATA CURRENT ZONING: IT - INNOVATION AND TECHNOLOGY PROPOSED ZONING: IT - INNOVATION AND TECHNOLOGY

MILL & OVERLAY AREA: 2.04 AC DISTURBED AREA: 6.14 AC 6.14 AC (100%) existing impervious area: PROPOSED IMPERVIOUS AREA: 4.58 AC (74.7%)

DEVELOPMENT AND DESIGN STANDARDS YARD (BUILDING) SETBACKS: FRONT 20 FT MINIMUM SIDE 25 FT MINIMUM

50 FT MINIMUM SIDE (RESIDENTIAL) REAR 25 FT MINIMUM

OFF-STREET PARKING AND DESIGN STANDARD REQUIREMENTS OFF-STREET PARKING SETBACKS:

FRONT 20 FT MINIMUM SIDE 5 FT MINIMUM

MINIMUM PARKING LAYOUT DIMENSIONS (90 DEGREE PATTERN): PARKING SPACE WIDTH = 9 FT PARKING SPACE LENGTH = 18 FT DRIVE LANE WIDTH = 24 FT

ACCESSIBLE PARKING

PROPOSED ACCESSIBLE PARKING: 8 STALLS

REQUIRED ACCESSIBLE PARKING: 7 STALLS**

**REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES FOR 201 TO 300 STALLS

Total Required Stalls per Zoning Code = 1,594 stalls

Existing stalls on north side (Edina) of campus to remain = 528 Stalls Proposed parking ramp stalls = 600 stalls

Future parking ramp stalls = 218 stalls

Proposed surface parking stalls = 220 stalls (accounts for ADA stalls - surface parking only) Proof of parking surface stalls = 66

Stalls removed for construction of future parking ramp = (-) 38 Total Proposed parking stalls (with future ramp parking) = 1,594 Stalls

SITE NOTES

SIDEWALKS.

- 1. ALL PAVING, CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN PER THE DETAIL SHEET(S) AND STATE/LOCAL JURISDICTION REQUIREMENTS.
- 2. ACCESSIBLE PARKING AND ACCESSIBLE ROUTES SHALL BE PROVIDED PER CURRENT ADA STANDARDS AND LOCAL/STATE REQUIREMENTS.
- 3. ALL CURB DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- 4. ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL UNLESS OTHERWISE NOTED.
- 5. TYPICAL FULL SIZED PARKING STALL IS 9' X 18' UNLESS OTHERWISE NOTED.
- 6. ALL CURB RADII SHALL BE 5.0' UNLESS OTHERWISE NOTED.
- 7. BITUMINOUS IMPREGNATED FIBER BOARD TO BE PLACED AT FULL DEPTH OF CONCRETE ADJACENT TO EXISTING STRUCTURES AND BEHIND CURB ADJACENT TO DRIVEWAYS AND
- 8. SEE SITE ELECTRICAL PLAN FOR SITE LIGHTING.

SIGNAGE AND STRIPING NOTES ■

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SIGNAGE AND STRIPING AS SHOWN ON
- 2. CONTRACTOR SHALL PAINT ALL ACCESSIBLE STALLS, LOGOS AND CROSS HATCH LOADING AISLES WITH WHITE PAVEMENT MARKING PAINT, 4" IN WIDTH.
- 3. CONTRACTOR SHALL PAINT ANY/ALL DIRECTIONAL TRAFFIC ARROWS, AS SHOWN, IN WHITE
- 4. ALL SIGNAGE SHALL INCLUDE POST, CONCRETE FOOTING AND STEEL CASING WHERE
- ALL SIGNAGE NOT PROTECTED BY CURB, LOCATED IN PARKING LOT OR OTHER PAVED AREAS TO BE PLACED IN STEEL CASING, FILLED WITH CONCRETE AND PAINTED YELLOW. REFER TO
- 6. ANY/ALL STOP SIGNS TO INCLUDE A 24" WIDE PAINTED STOP BAR IN WHITE PAINT, PLACED AT THE STOP SIGN LOCATION, A MINIMUM OF 4' FROM CROSSWALK IF APPLICABLE. ALL STOP BARS SHALL EXTEND FROM DIRECTIONAL TRANSITION BETWEEN LANES TO CURB.

7. ALL SIGNS TO BE PLACED 18" BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.





EXISTING CONDITIONS INFORMATION SHOWN IS FROM A TOPO SURVEY PREPARED BY SEH AND DATED JUNE, 2020.

CIVIL LEGEND

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SANITARY MANHOLE

STORM MANHOLE

CATCH BASIN

CULVERT

HYDRANT

POST INDICATOR VALVE

GATEVALVE

LIGHT POLE

POWER POLE

SIGN

BENCHMARK

SOIL BORINGS

WATER MANHOLE

TELEPHONE MANHOLE

UTILITY MANHOLE

ELECTRIC MANHOLE

WATER SERVICE

SANITARY SERVICE

HANDICAP PARKING

DIRECTION OF FLOW

SPOT ELEVATION

CONTOURS

SANITARY SEWER

FORCEMAIN

SETBACK LINE

FENCE LINE

UNDERGROUND TELE

UNDERGROUND GAS

CONIFEROUS TREE

DECIDUOUS TREE

PARKING COUNTS

OVERHEAD UTILITY

-----UNDERGROUND FIBER OPTIC UNDERGROUND ELECTRIC

UNDERGROUND CABLE TV

- - - PROPERTY LINE

-

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EASEMENT LINE - - - - -

PAVEMENT TYPES CONCRETE SIDEWALK

NOTE:

CONCRETE PAVEMENT LIGHT DUTY BITUMINOUS PAVEMENT HEAVY DUTY BITUMINOUS PAVEMENT

MILL & OVERLAY BITUMINOUS PAVEMENT

SEE PAVEMENT SECTIONS ON SHEET 250.CD AND 251.CD FOR TYPE AND DEPTH INFORMATION.

SEAGATE

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Consultants

CIVIL ENGINEERING

LAND SURVEYING

LANDSCAPE ARCHITECTURE ENVIRONMENTAL 7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505 www.loucksinc.com

LOUCKS PROJECT NO. 20244

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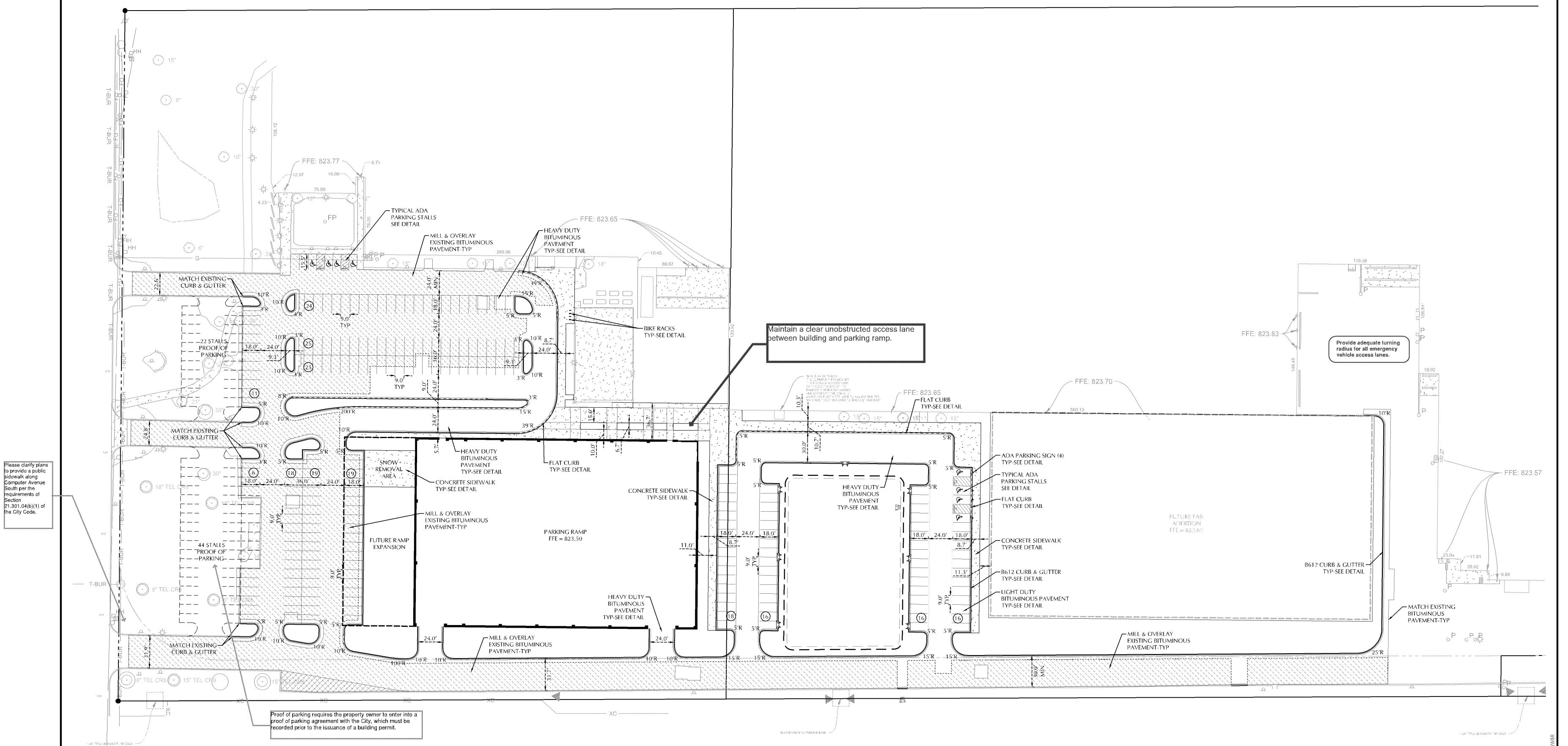
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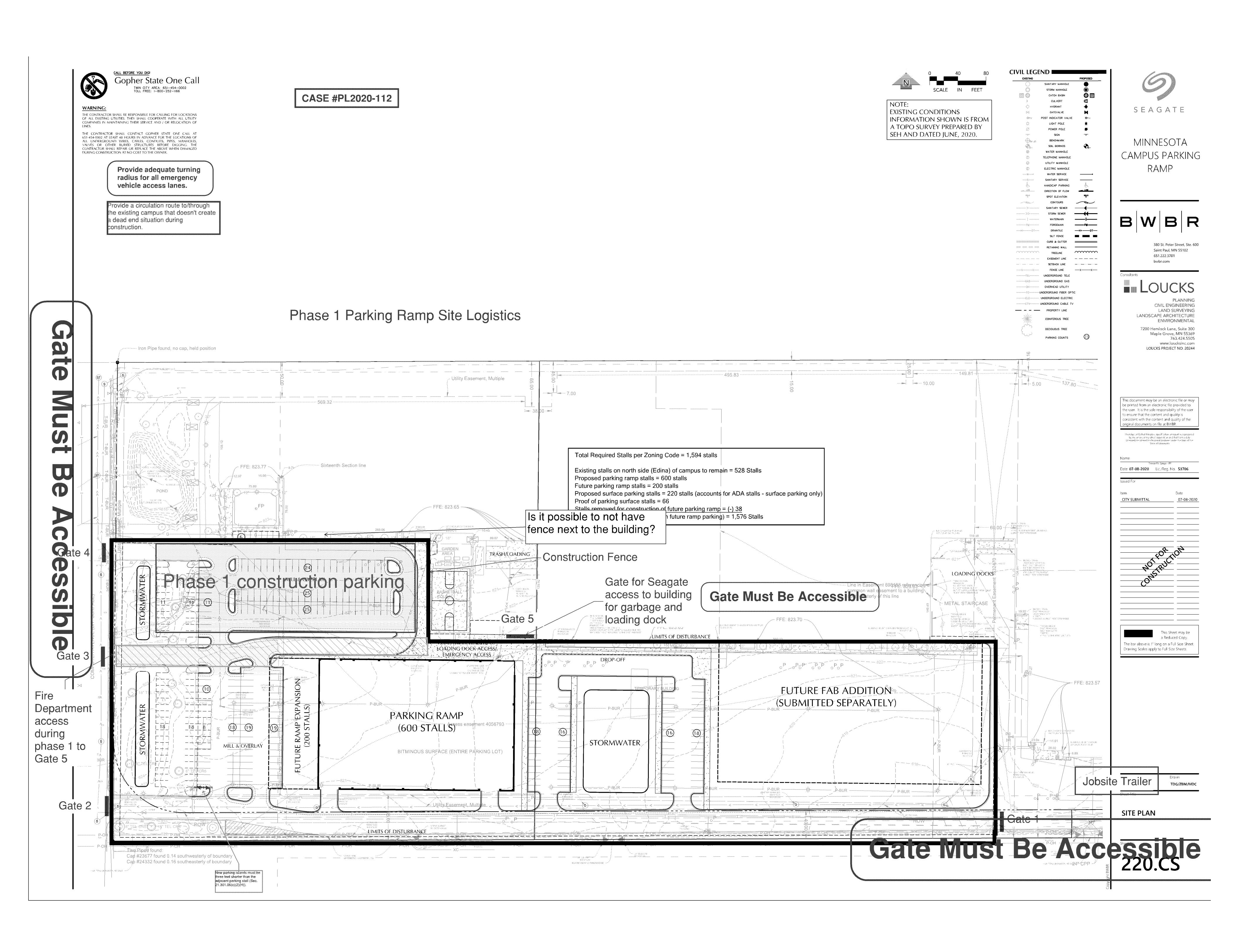
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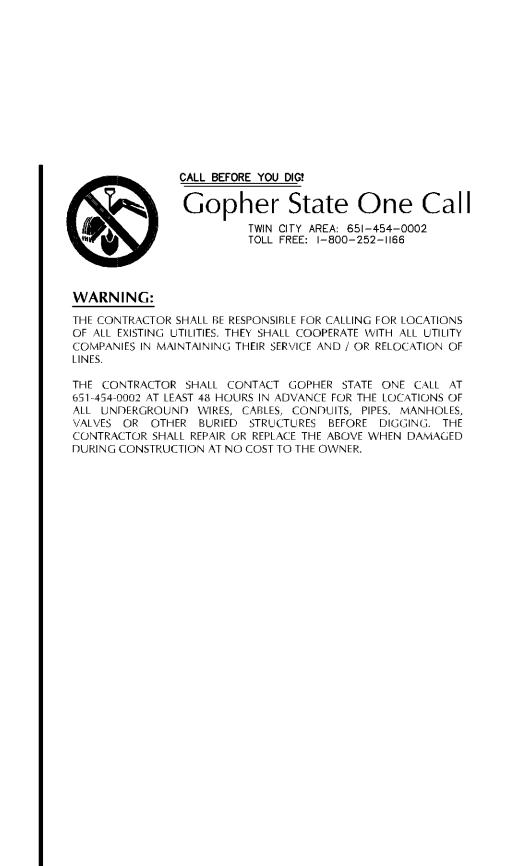
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SITE PLAN

Sheet Title







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GRADING, DRAINAGE & EROSION CONTROL NOTES 1. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/ELOW LINE, EACE OF

- 1. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- 3. GRADING OF THE INFILTRATION AREAS SHALL BE ACCOMPLISHED USING LOW-IMPACT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. SMALL TRACKED DOZERS AND BOBCATS WITH RUNNER TRACKS ARE RECOMMENDED.
- 4. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- 5. FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).

6. REFER TO THE PRELIMINARY BORING LOGS (REPORT NO. B2004036), DATED JUNE 4, 2020, AS

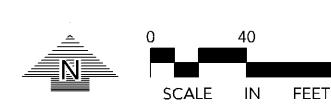
CONSTRUCTION RECOMMENDATIONS.
 STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE

PREPARED BY BRAUN INTERTEC FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND

8. DUST MUST BE ADEQUATELY CONTROLLED.

MUST BE ESTABLISHED.

- 9. SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
- 10. SEE UTILITY PLAN FOR WATER, STORM AND SANITARY SEWER INFORMATION.
- 11. SEE SITE PLAN FOR CURB AND BITUMINOUS TAPER LOCATIONS.



CIVIL LEGEND

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SANITARY MANHOLE

STORM MANHOLE

CATCH BASIN

CULVERT

HYDRANT

POST INDICATOR VALVE

GATEVALVE

LIGHT POLE

POWER POLE

SIGN

BENCHMARK

SOIL BORINGS

WATER MANHOLE

TELEPHONE MANHOLE

UTILITY MANHOLE

ELECTRIC MANHOLE

WATER SERVICE

DIRECTION OF FLOW

SPOT ELEVATION

CONTOURS

STORM SEWER

FORCEMAIN

DRAINTILE

SILT FENCE

TREELINE

CONIFEROUS TREE

UNDERGROUND TELE

UNDERGROUND GAS

OVERHEAD UTILITY

UNDERGROUND FIBER OPTIC

UNDERGROUND ELECTRIC

UNDERGROUND CABLE TV

SANITARY SEWER ----

CURB & GUTTER -

EASEMENT LINE - - - - -

SANITARY SERVICE
HANDICAP PARKING

_____F¥-___

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Item Date

CITY SUBMITTAL 07-08-2020

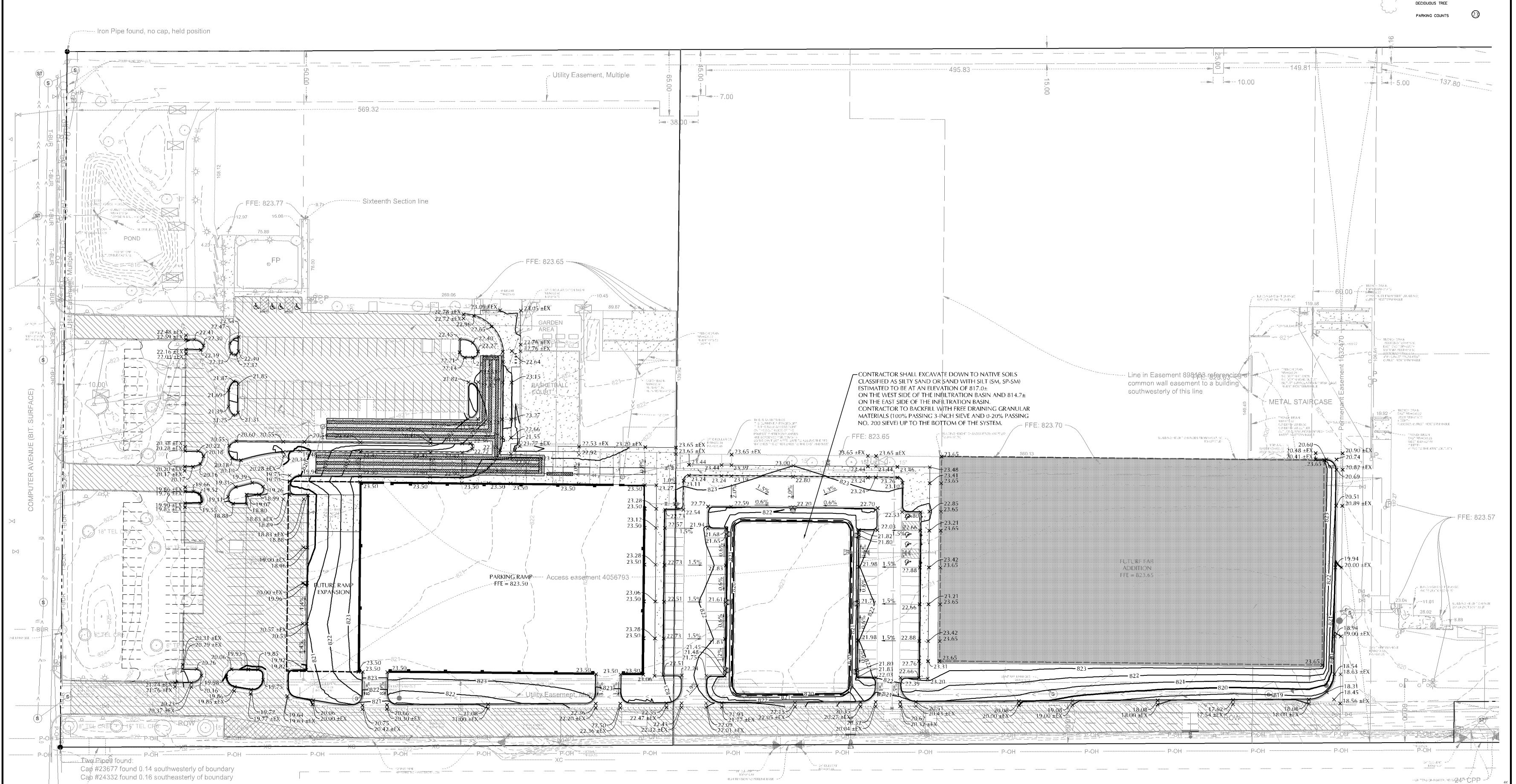
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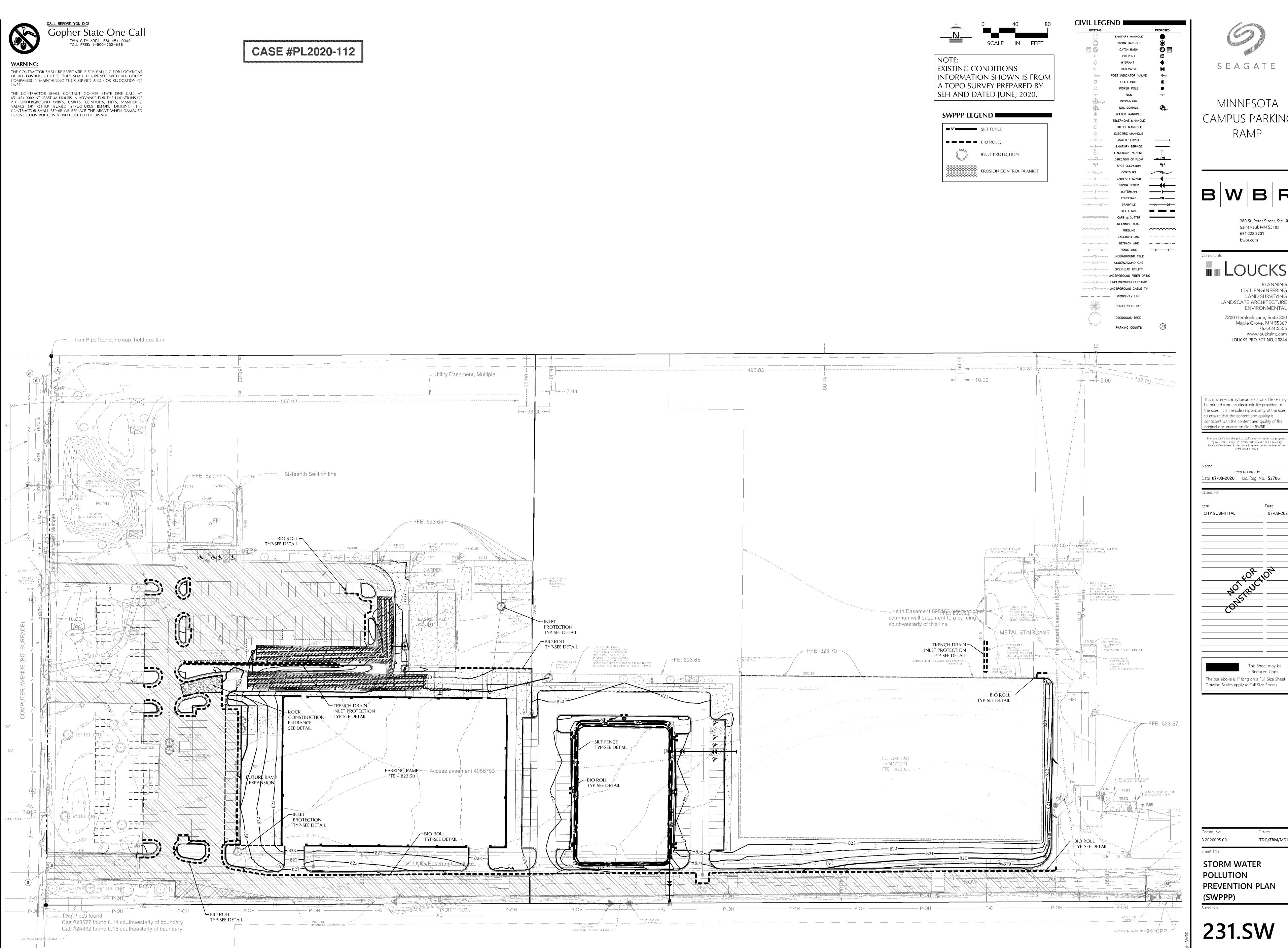
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GRADING AND DRAINAGE PLAN

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PREVENTION PLAN

SWPPP NOTES

- THE NATURE OF THIS PROJECT WILL CONSIST OF CONSTRUCTING A PROPOSED PARKING RAMP, SURFACE PAVEMENTS, UNDERGROUND FILTRATION SYSTEM, INFILTRATION BASIN, AND UTILITIES.
- 2. THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES ARE AS FOLLOWS:
- INSTALL VEHICLE TRACKING BMP (SUMMER 2020)
- INSTALL INLET PROTECTION (SUMMER 2020) INSTALL SILT FENCE AROUND SITE (SUMMER 2020)
- CLEAR AND GRUB SITE (SUMMER 2020) STRIP AND STOCKPILE TOPSOIL (SUMMER 2020)
- REMOVE PAVEMENTS AND UTILITIES (SUMMER 2020) ROUGH GRADE SITE (SUMMER 2020)
- IMPORT CLEAN FILL FOR REPLACEMENT AND BALANCE (SUMMER 2020) INSTALL UTILITIES (SUMMER 2020)
- 10. INSTALL BUILDING FOUNDATIONS (FALL 2020) 11. INSTALL CURB AND GUTTER (FALL 2020)
- 12. INSTALL PAVEMENTS AND WALKS (FALL 2020) 13. FINAL GRADE SITE (FALL 2020)
- 14. REMOVE ACCUMULATED SEDIMENT FROM STORMWATER SYSTEMS (FALL 2020) 15. SEED AND MULCH (FALL 2020)
- 16. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE SILT FENCE, INLET PROTECTION, AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.
- 3. SITE DATA:
- DISTURBED AREA: 6.14 AC MILL AND OVERLAY AREA: 2.04 AC PRE-CONSTRUCTION IMPERVIOUS AREA: 6.14 AC

POST-CONSTRUCTION IMPERVIOUS AREA: 4.58 AC

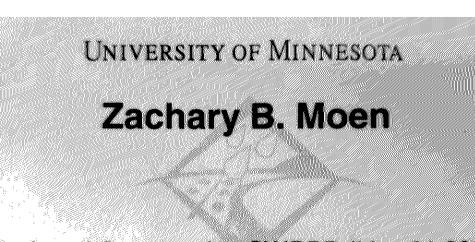
- GENERAL SOIL TYPE: SEE PRELIMINARY GEOTECHNICAL SOIL BORINGS BY BRAUN INTERTEC HYDROLOGY INFORMATION: SEE HYDROLOGY REPORT PREPARED BY LOUCKS DATED JULY, 2020
- 4. EROSION AND SEDIMENT CONTROLS WERE DESIGNED TO EFFECTIVELY CONTROL STORMWATER RUNOFF WITHIN THE PROJECT AREAS. EROSION AND SEDIMENT CONTROL HAVE BEEN PROPOSED TO MINIMIZE CHANNEL EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS. FACTORS THAT WERE CONSIDERED INCLUDE PROPOSED IMPERVIOUS AREAS, SLOPE OF IMPERVIOUS SURFACES, STORMWATER INFRASTRUCTURE DISCHARGE POINTS, AND ANNUAL AVERAGE PRECIPITATION DATA FOR THE PROJECT AREA.
- 5. HENNEPIN COUNTY RECEIVES AN AVERAGE OF 32 INCHES OF PRECIPITATION PER YEAR. THE FOLLOWING HENNEPIN COUNTY 24-HOUR STORM EVENTS ARE BASED ON ATLAS 14 RAINFALL DATA: 2-YR 2.86 INCHES
- 10-YR 4.26 INCHES 100-YR 7.32 INCHES
- 6. SEE "EXHIBIT:PROPOSED DRAINAGE AREAS" FOR SITE MAP WITH DRAINAGE AREA BOUNDARIES.
- 7. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE IDENTIFIED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC. BEFORE CONSTRUCTION BEGINS.
- 8. CONTRACTOR SHALL INSTALL RAIN GAUGE ON SITE.

OR OTHER EQUIVALENT CONTROL MEASURE.

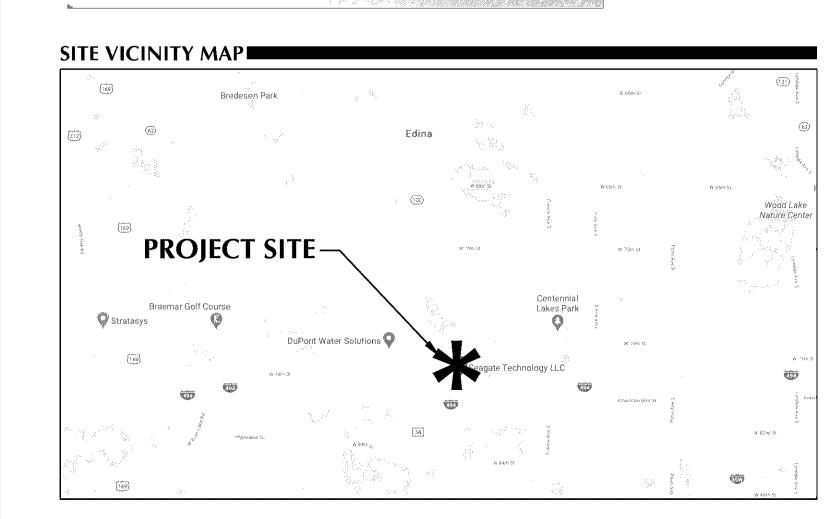
- 9. GROUNDWATER EXPECTED TO BE ENCOUNTERED DURING CONSTRUCTION. FOLLOW LOCAL, STATE, AND FEDERAL REGULATIONS FOR GROUNDWATER PUMPING AND OBTAIN ALL NECESSARY PERMITS.
- 10. NO SOIL CONTAMINATION EXPECTED TO BE ENCOUNTERED DURING EXCAVATION.
- 11. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN (7) OR MORE DAYS SHALL BE STABILIZED BY SEEDING OR SODDING (ONLY AVAILABLE PRIOR TO SEPTEMBER 15) OR BY MULCHING OR COVERING
- 12. ON SLOPES 3:1 OR GREATER MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES, SLOPE LENGTHS CAN NOT BE GREATER THAN 75 FEET.
- 翻 DENOTES SLOPES GREATER THAN 3:1. ALL 3:1 SLOPES TO BE STABILIZED WITH EROSION I CONTROL BLANKET
- 13. ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE
- 14. SOIL COMPACTION SHALL BE MINIMIZED DURING CONSTRUCTION.
- 15. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT AMOUNT OF SILT, CLAY, OR ORGANIC COMPOUNDS ARE EXEPMT EX: CLEAN AGGREGATE STOCK PILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES.
- 16. SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED ON ALL DOWNGRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES.
- 17. SEDIMENT LADEN WATER MUST BE DISCHARGED TO A SEDIMENTATION BASIN WHENEVER POSSIBLE. IF NOT POSSIBLE, IT MUST BE TREATED WITH THE APPROPRIATE BMP'S.
- 18. SOLID WASTE MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.
- 19. NO VEHICLE WASHING ALLOWED ON SITE.

FSTIMATED QUANTITIES

ESTIMATED QUANTITIES						
DESCRIPTION	UNIT	QUANTITY				
TEMPORARY ROCK CONSTRUCTION ENTRANCE	EA	1				
PREFABRICATED CONCRETE WASHOUT	EA	-				
SILT FENCE (STANDARD)	LF	1,140				
EROSION CONTROL BLANKET	SY	-				
INLET PROTECTION	EA	9				
TRENCH DRAIN INLET PROTECTION	EA	2				
BIO-ROLL	LF	2,345				



Design of Construction SWPPP (May 31 2022)



20. NO ENGINE DEGREASING IS ALLOWED ON SITE.

- 21. THE OWNER IS RESPONSIBLE FOR COMPLIANCE WITH ALL TERMS AND CONDITIONS OF THE PERMIT. THE OPERATOR IS RESPONSIBLE FOR COMPLIANCE WITH SECTIONS 3, 4, 6-22, 24 AND APPLICABLE REQUIREMENTS FOR CONSTRUCTION ACTIVITY IN SECTION 23.
- 22. TERMINATION OF COVERAGE-PERMITTEE(S) WISHING TO TERMINATE COVERAGE MUST SUBMIT A NOTICE OF TERMINATION (NOT) TO THE MPCA. ALL PERMITTEE(S) MUST SUBMIT A NOT WITHIN 30 DAYS AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
- A. PERMIT TERMINATION CONDITIONS, PER NPDES PERMIT SECTION 13.1 HAVE BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE.
- A.A. PERMANENT UNIFORM PERENNIAL VEGETATIVE COVER MUST BE ESTABLISHED AT 70% DENSITY OF ITS EXPECTED FINAL GROWTH. THE PERMANENT STORMWATER TREATMENT SYSTEM IS CONSTRUCTED, MEETS ALL
- REQUIREMENTS, AND IS OPERATING AS DESIGNED. A.C. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS MUST
- A.D. CLEAN OUT SEDIMENT FROM CONVEYANCE SYSTEMS AND PERMANENT STORMWATER TREATMENT SYSTEMS (RETURN TO DESIGN CAPACITY).

23. INSPECTIONS

- A. INITIAL INSPECTION FOLLOWING SILT FENCE INSTALLATION BY CITY REPRESENTATIVE IS
- B. EXPOSED SOIL AREAS: ONCE EVERY 7 DAYS AND WITHIN 24 HOURS FOLLOWING A 0.5" OVER 24 HOUR RAIN EVENT.
- C. STABILIZED AREAS: ONCE EVERY 30 DAYS

Greater than ½" in 24 hours.

- D. FROZEN GROUND: AS SOON AS RUNOFF OCCURS OR PRIOR TO RESUMING CONSTRUCTION.
- E. INSPECTION AND MAINTENANCE RECORDS MUST BE RETAINED FOR 3 YEARS AFTER FILING OF THE NOTICE OF TERMINATION AND MUST INCLUDE: DATE AND TIME OF ACTION, NAME OF PERSON(S) CONDUCTING WORK, FINDING OF INSPECTIONS AND RECOMMENDATIONS FOR CORRECTIVE ACTION, DATE AND AMOUNT OF RAINFALL EVENTS GREATER THAN 0.5 INCHES IN A 24 HOUR PERIOD.
- F. OBSERVE ANY DISCHARGE OCCURRING ONSITE AND DOCUMENT CORRECTIVE ACTIONS TAKEN. DISCHARGE SHOULD BE DESCRIBED AND PHOTOGRAPHED.

- A. 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.
- B. REPAIR, REPLACE, OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES $\frac{1}{2}$ THE HEIGHT OF THE DEVICE.
- C. SEDIMENT BASINS DRAINED AND SEDIMENT REMOVED WHEN REACHES 1/2 STORAGE VOLUME.
- D. SEDIMENT REMOVED FROM SURFACE WATERS WITHIN (7)SEVEN CALENDAR DAYS OF
- E. CONSTRUCTION SITE EXITS INSPECTED, TRACKED SEDIMENT REMOVED WITHIN (1)ONE CALENDAR DAY. F. PROVIDE COPIES OF EROSION INSPECTION RESULTS TO CITY ENGINEER FOR ALL EVENTS
- 25. THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION ACTIVITY BY THE PERMITTEE(S) WHO HAVE OPERATIONAL CONTROL OF THE SITE.
- 26. OWNER MUST KEEP RECORDS OF ALL PERMITS REQUIRED FOR THE PROJECT, THE SWPPP, ALL INSPECTIONS AND MAINTENANCE, PERMANENT OPERATION AND MAINTENANCE AGREEMENTS, AND REQUIRED CALCULATIONS FOR TEMPORARY AND PERMANENT STORM WATER MANAGEMENT SYSTEMS. THESE RECORDS MUST BE RETAINED FOR THREE YEARS AFTER FILING NPDES NOTICE OF

27. SWPPP MUST BE AMENDED WHEN:

- A. THERE IS A CHANGE IN DESIGN, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE
- B. INSPECTIONS INDICATE THAT THE SWPPP IS NOT EFFECTIVE AND DISCHARGE IS EXCEEDING
- WATER QUALITY STANDARDS. C. THE BMP'S IN THE SWPPP ARE NOT CONTROLLING POLLUTANTS IN DISCHARGES OR IS NOT CONSISTENT WITH THE TERMS AND CONDITIONS OF THE PERMIT.

28. CONCRETE WASHOUT AREA

- A. CONCRETE WASH-OUT SITES NOT ALLOWED ON SITE AND MUST BE CONTAINED ON TRUCKS. B. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY.
- 29. IN THE EVENT OF ENCOUNTERING A WELL OR SPRING DURING CONSTRUCTION CONTRACTOR TO

CEASE CONSTRUCTION ACTIVITY AND NOTIFY ENGINEER.

24 HOURS AFTER CONNECTION TO A SURFACE WATER.

30. PIPE OULTETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN

31. FINAL STABILIZATION

FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACVTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND TO DESIGN CAPACITY.

PHONE:

A. THE OWNER MUST IDENTIFY A PERSON WHO WILL OVERSEE THE SWPPP IMPLEMENTATION AND THE PERSON RESPONSIBLE FOR INSPECTION AND MAINTENANCE: CONTACT: COMPANY: PHONE:

B. THE OWNER MUST IDENTIFY THE A PERSON WHO WILL BE RESPONSIBLE FOR LONG TERM OPERATIONS AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM: CONTACT: COMPANY:

- 33. THE WATERSHED DISTRICT OR THE CITY MAY HAVE REQUIREMENTS FOR INSPECTIONS OR AS-BUILT DRAWINGS VERIFYING PROPER CONSTRUCTION OF THE BMPS.
- 34. EROSION CONTROL DEVICES CANNOT BE REMOVED UNTIL THE WATERSHED DISTRICT HAS DETERMINED THE SITE HAS BEEN PERMANENTLY RESTABALIZED AND SHALL BE REMOVED WITHIN 30

ERTEC® Slot Guard™ - Installation Guide - For slotted or trench drain inlets with grates in paved areas

Clean: Accumulation of leaves, debris and sediment can cause backups! Clean after every storm or as necessary.

discourage run-overs. Slot Guard™ works well with periodic run-overs, but does not survive long in constant stop and start traffic.

Overlap: Slot Guard™ segments overlap for long slot/trench drains.

not remove grate.

Fig. 1

16 gauge tie-wire Install every 2.5 feet

Placement: Select correct size (Table 1). Lay the Slot Guard™ on top of the slot or trench drain grate. For safety, assure that grate is in place. Do

Protect: In stop and go traffic areas where exposed to constant tire abuse, it is useful to place traffic cones or delineators on or near Slot Guard to

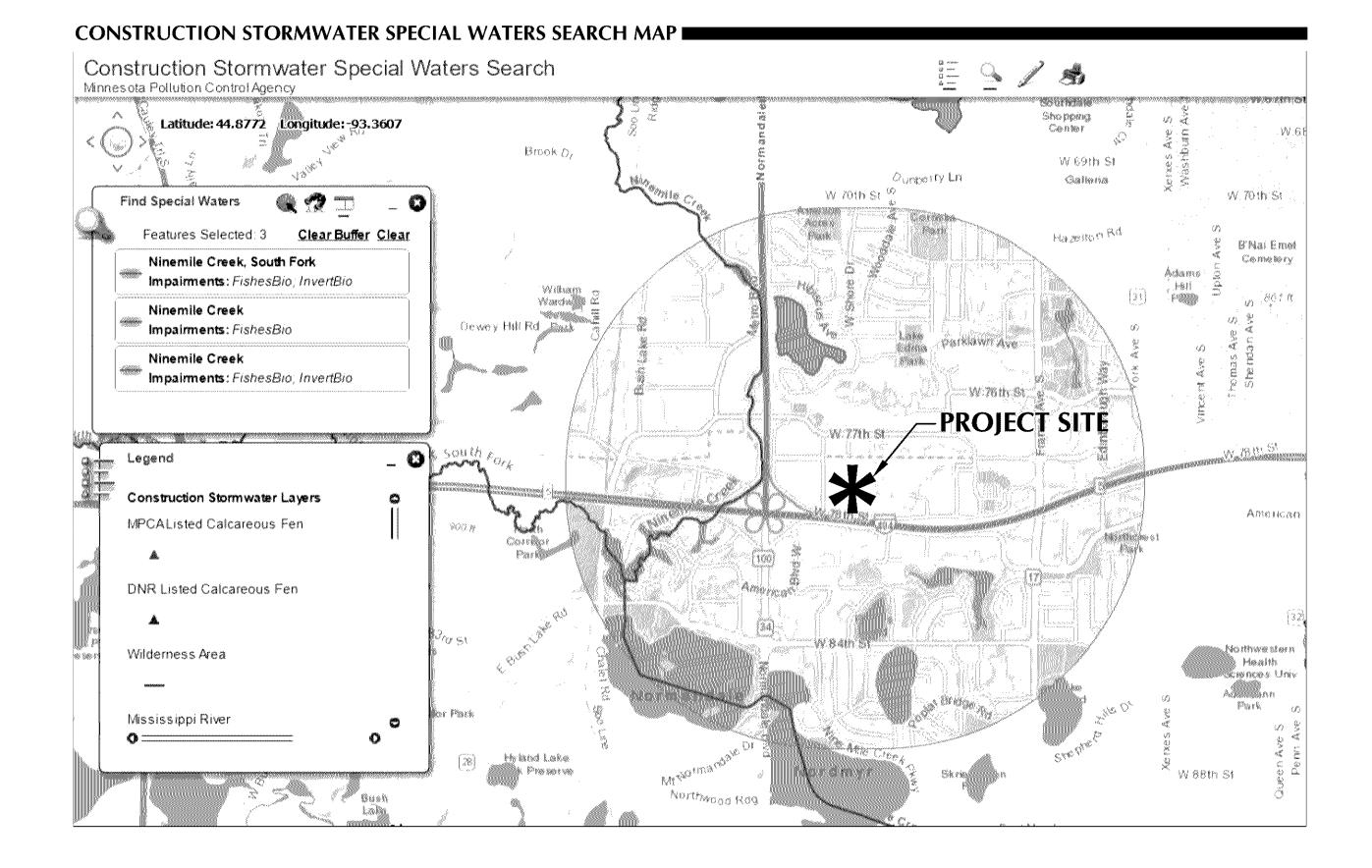
Water Seal Extends past Drain & Filter Core for excellent contact with surface

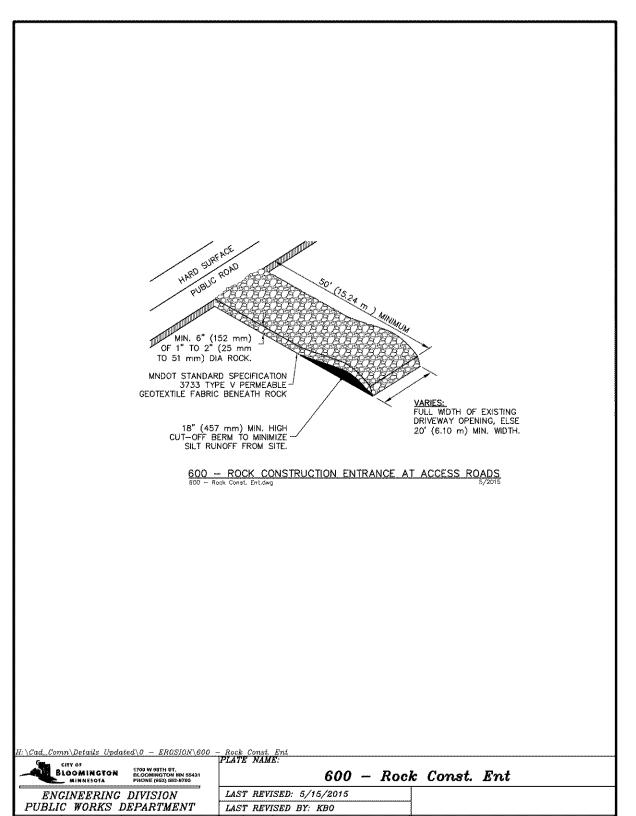
ERTEC - Installation Guide - Slot Guard.pdf

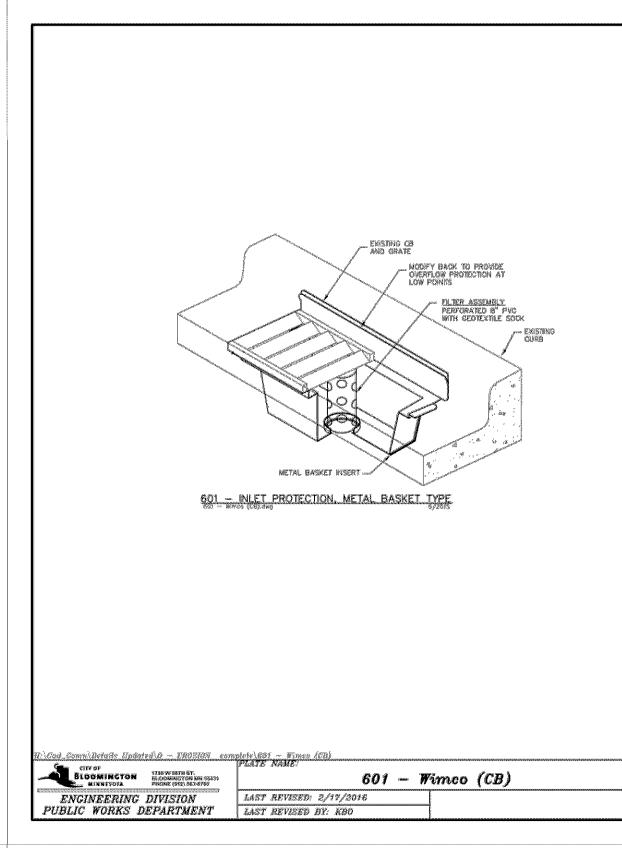
None 8.5"x11" 1 of 1

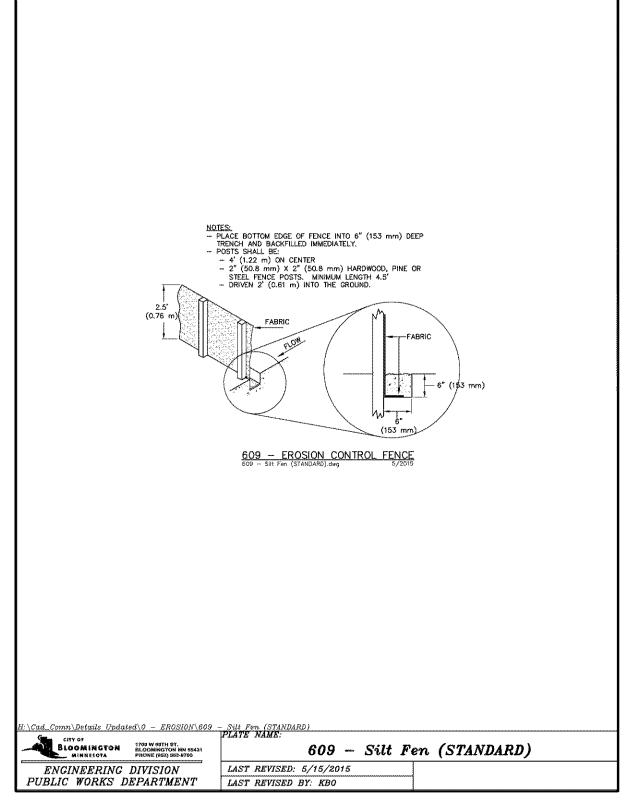
Anchor method: Attach with 16 gauge tie wire every 2.5 linear Feet (Fig 1). Cut wire to 12" lengths. Feed one end of wire down thru Slot Suard™, around grate bar, and back-up thru Slot Guard™. Above ground, pull tight and twist wires several times. Cut off excess and bend twisted nub

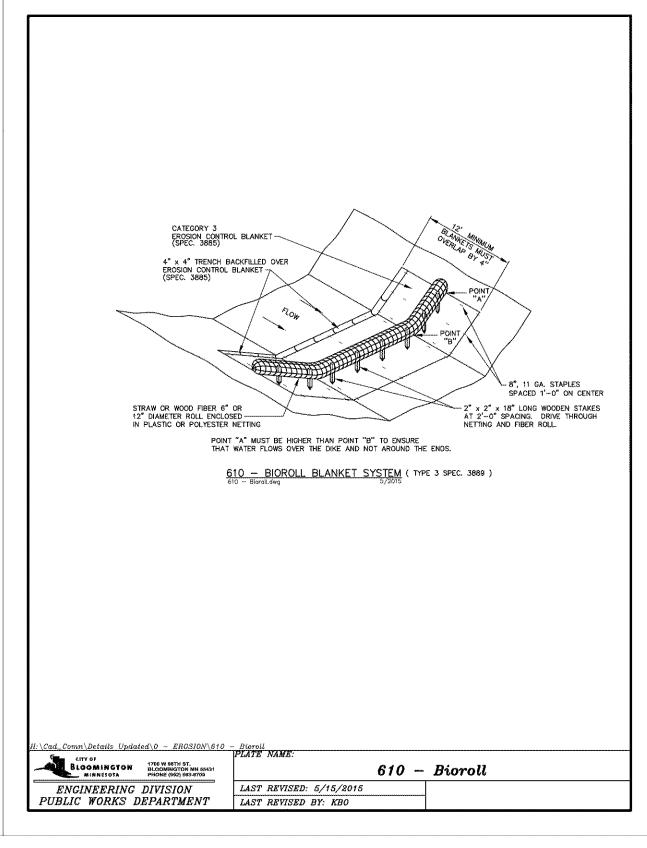
CASE #PL2020-112













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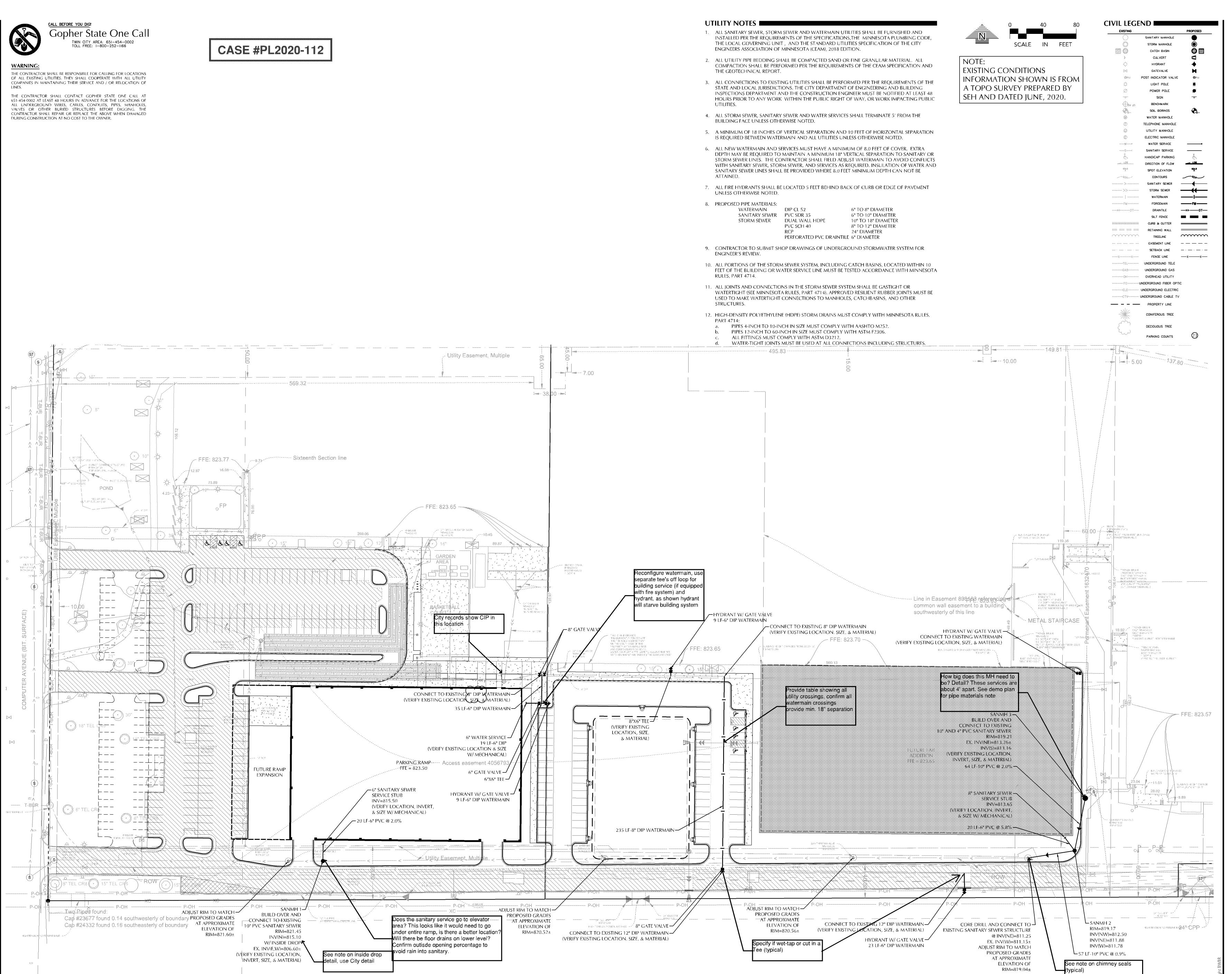
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SWPPP NOTES AND DETAILS



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cem Date

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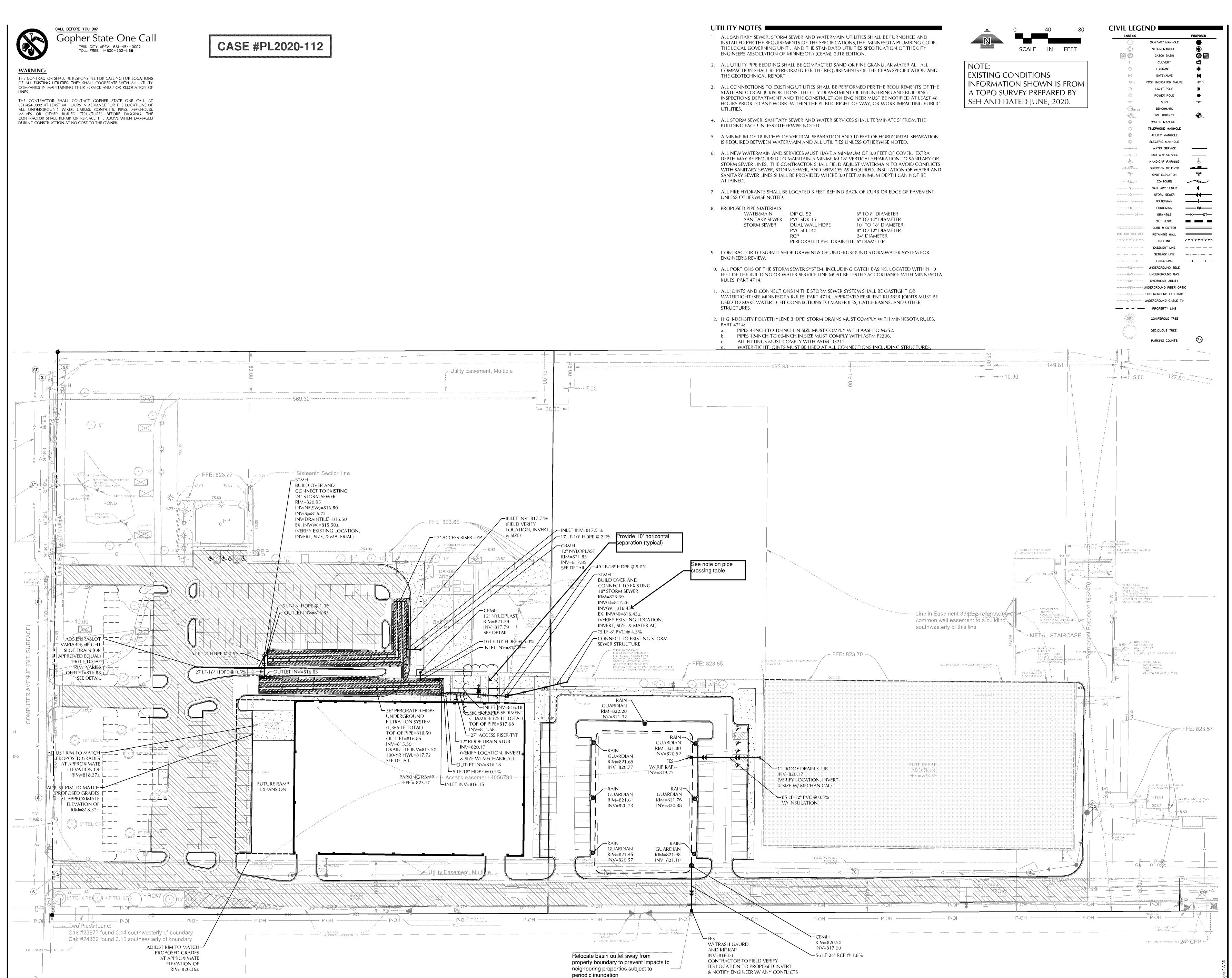
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UTILITY PLAN
SANITARY SEWER &
WATERMAIN

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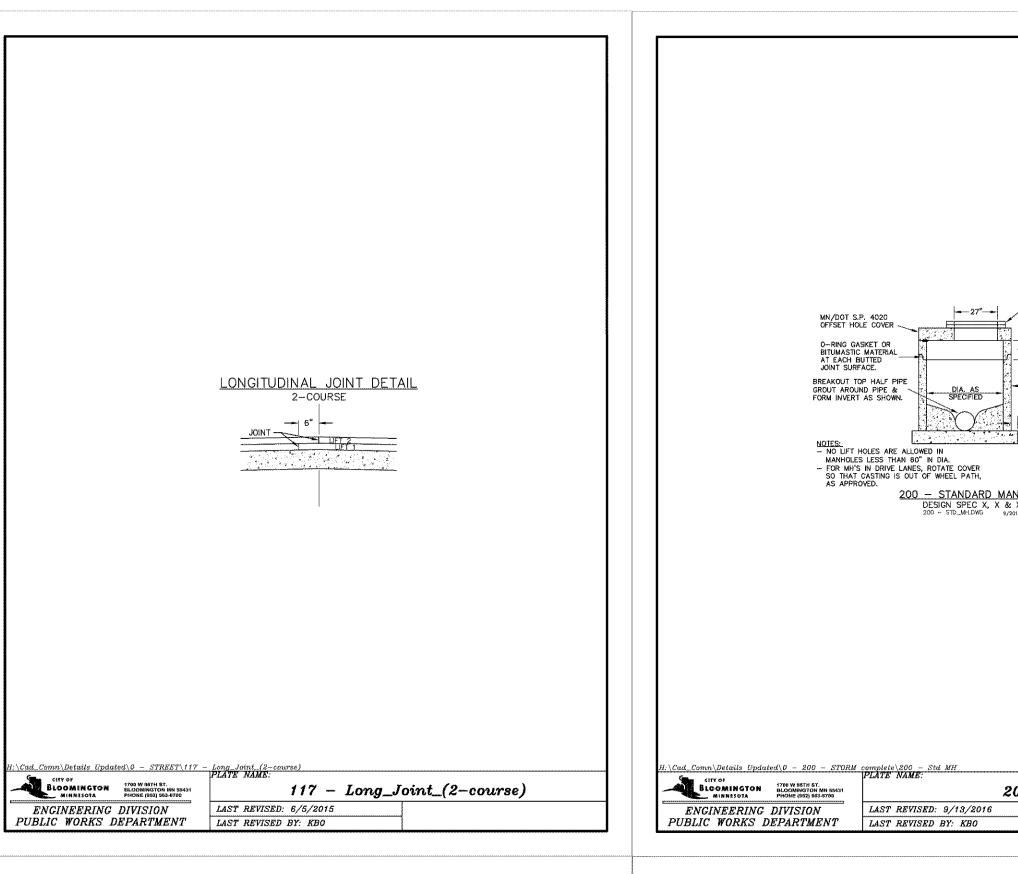
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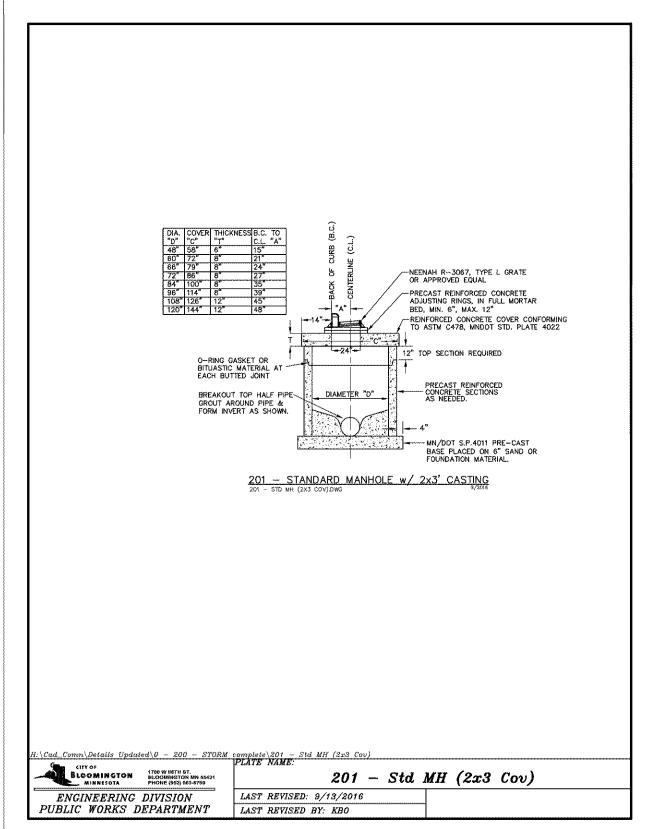
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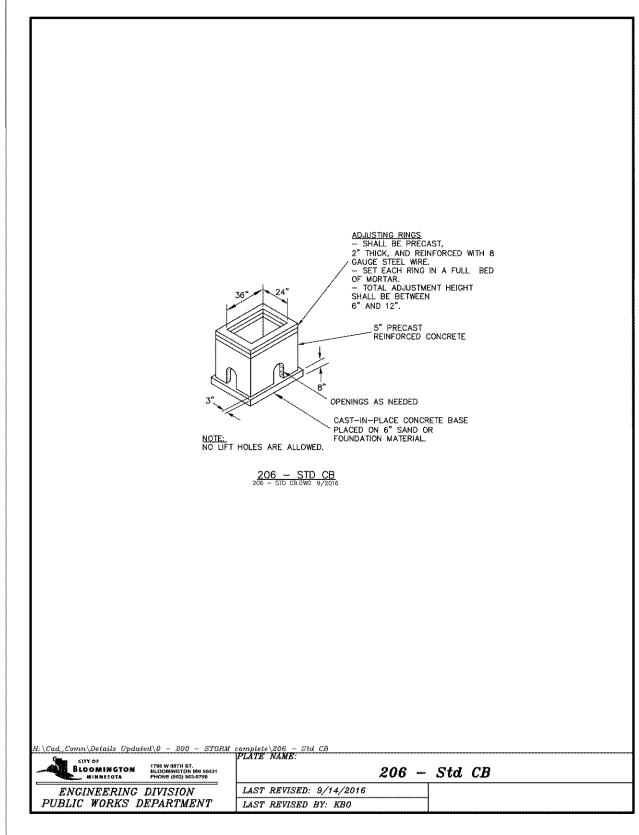
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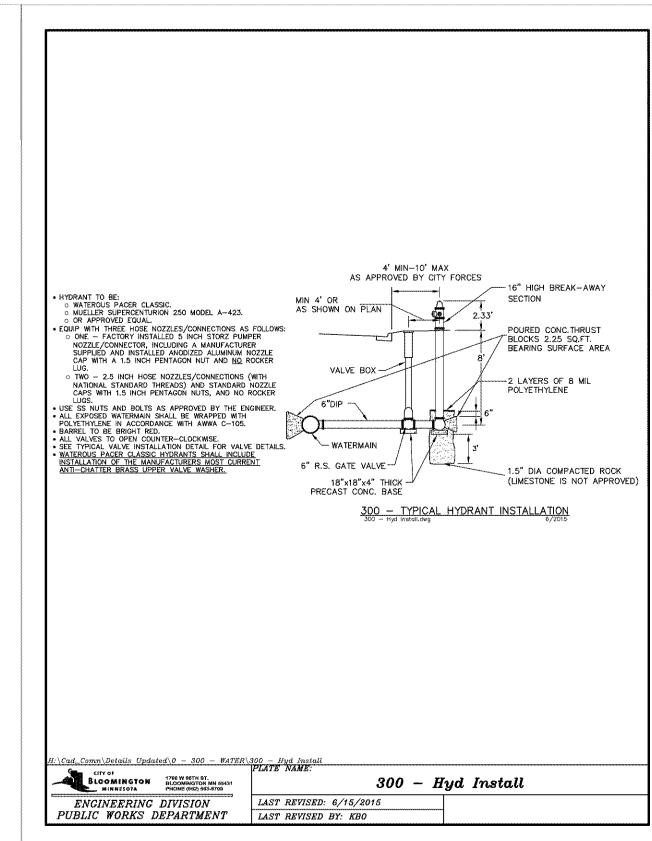
UTILITY PLAN
STORM SEWER

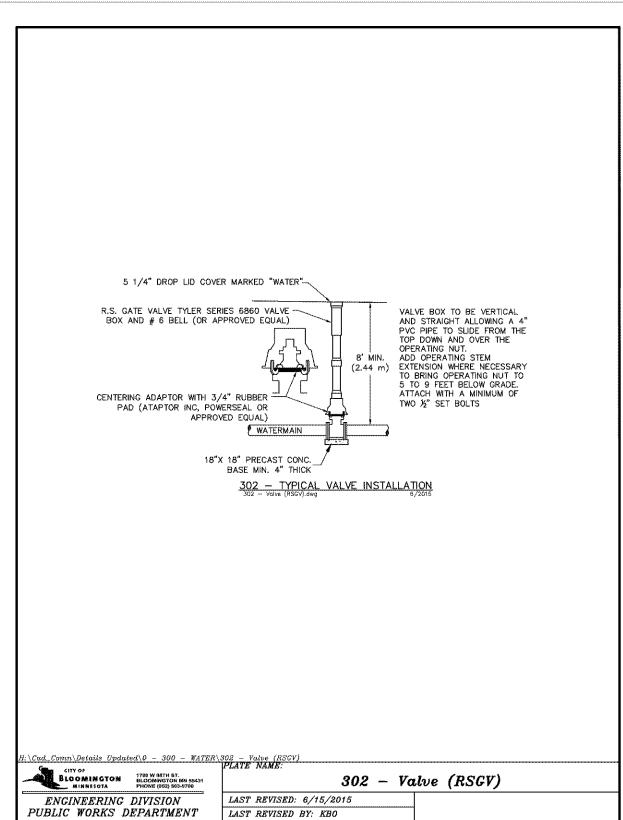
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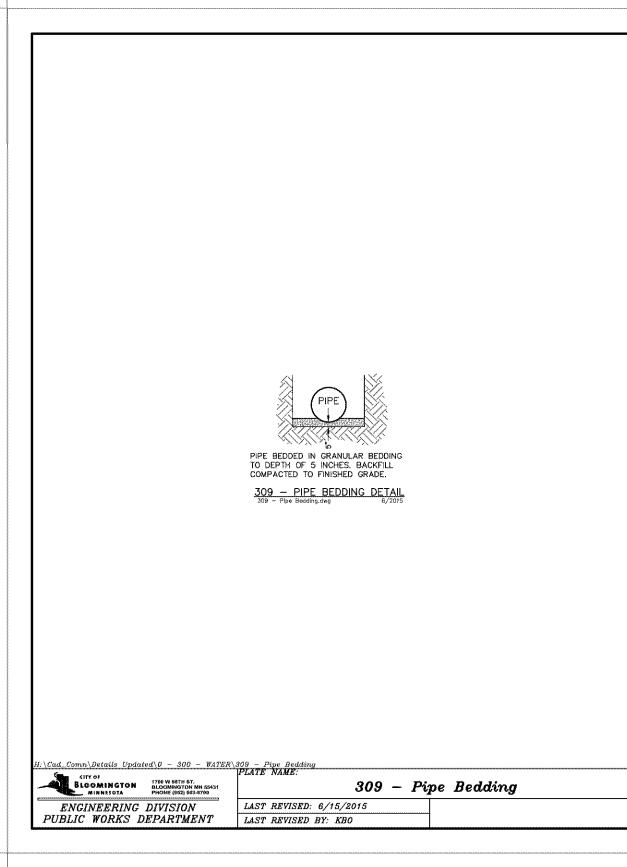




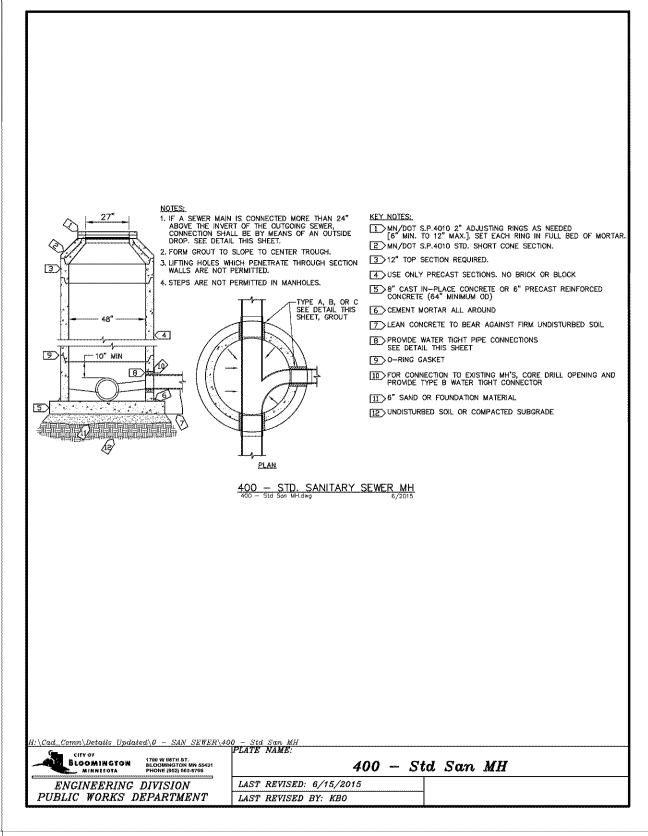


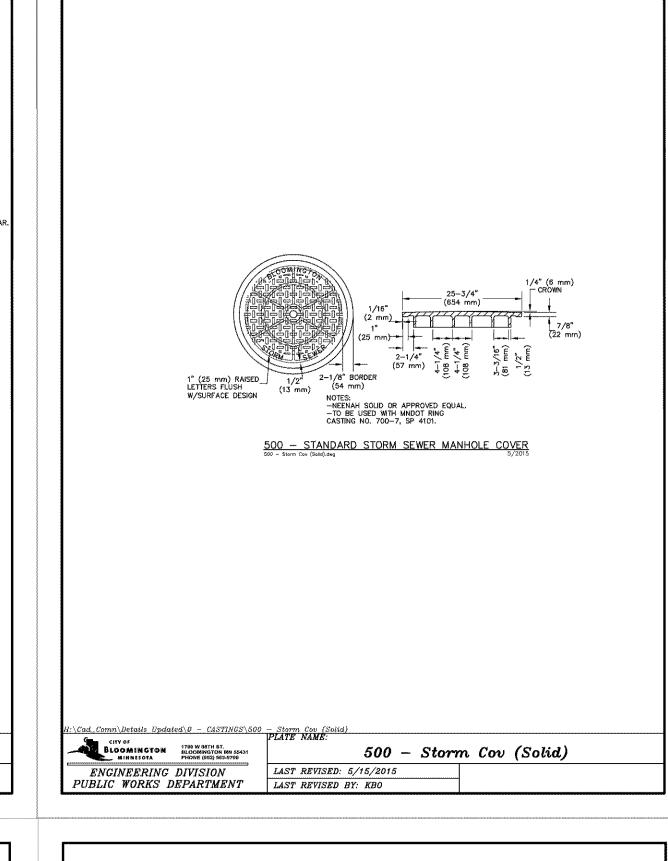


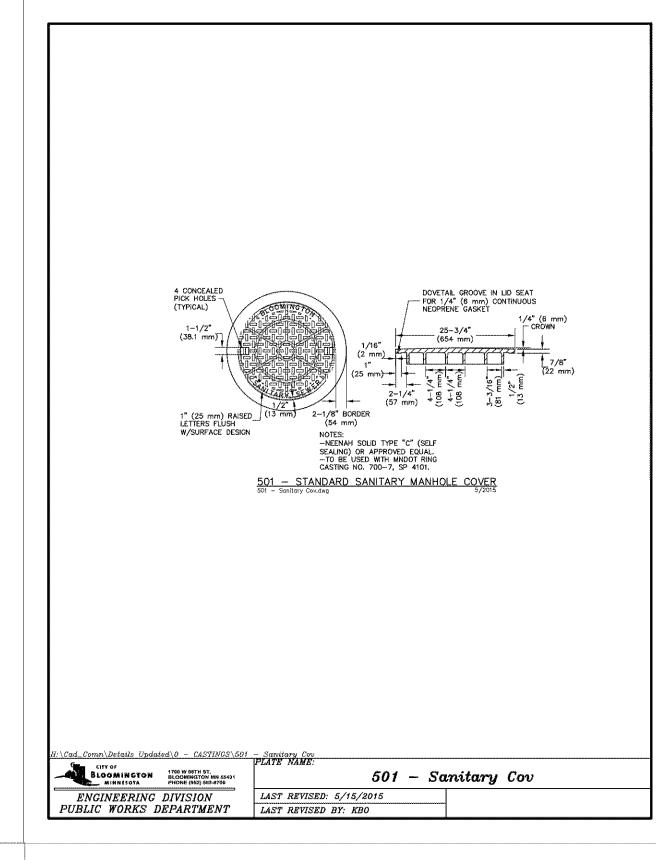




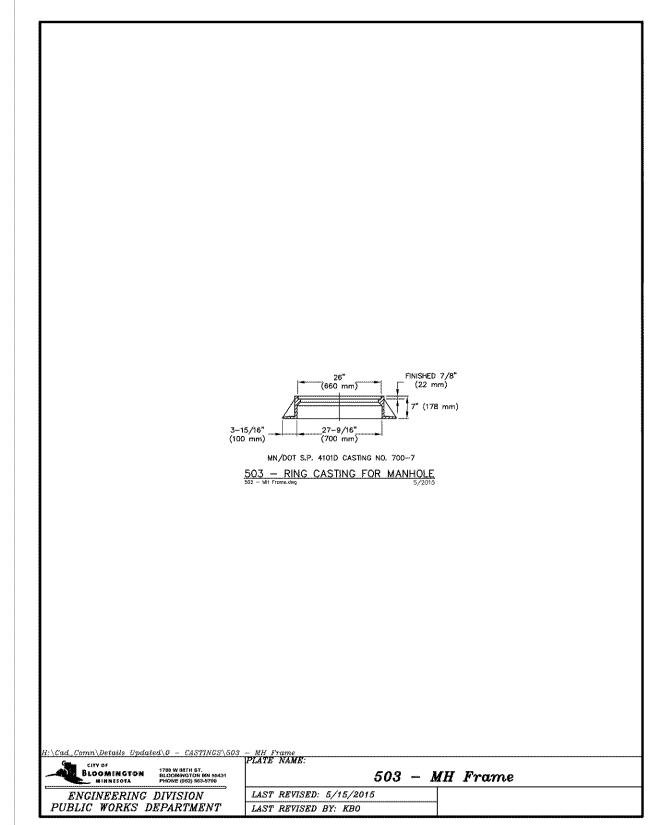
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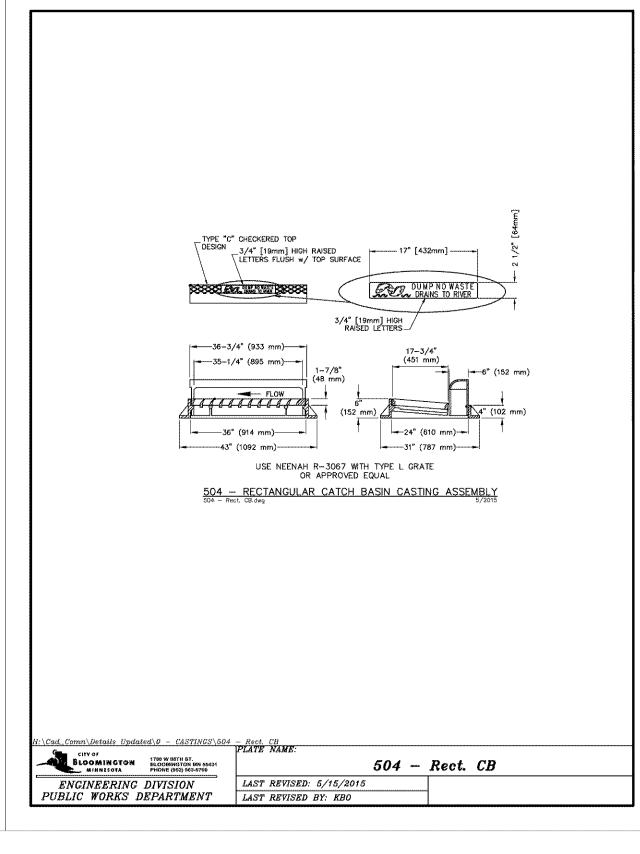


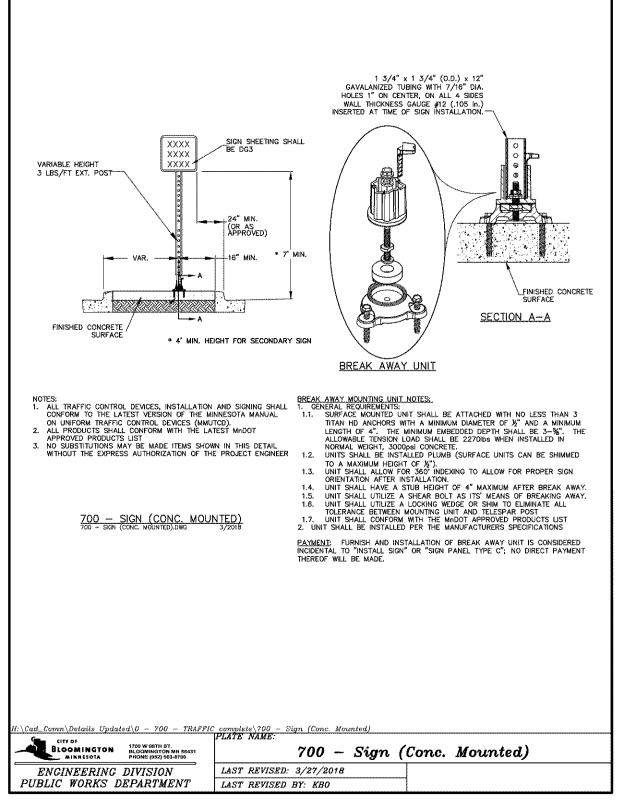


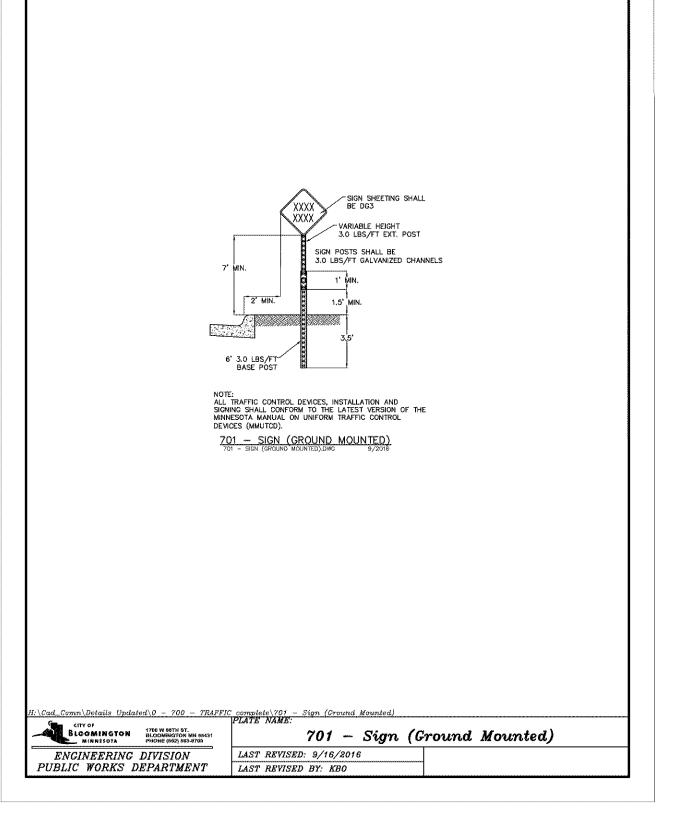


Provide thrust block detail, see City website









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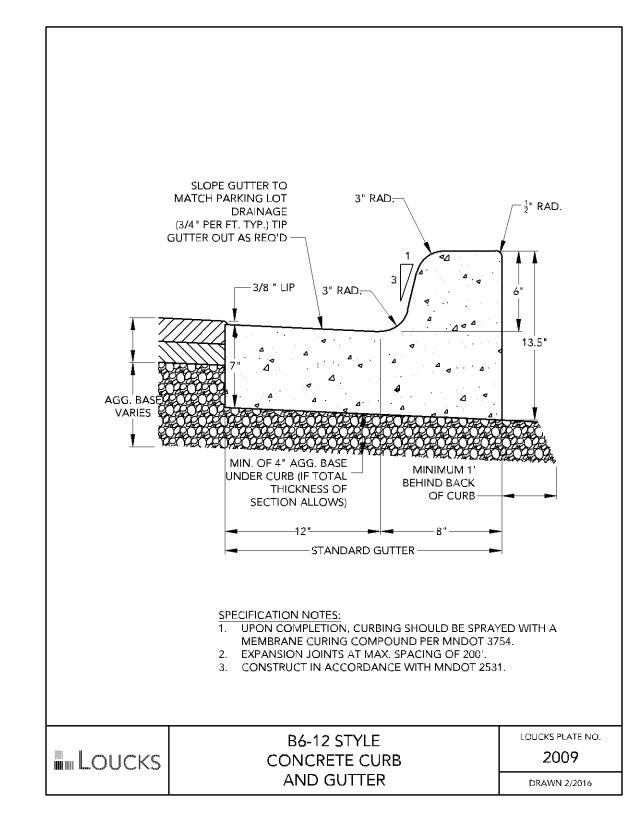
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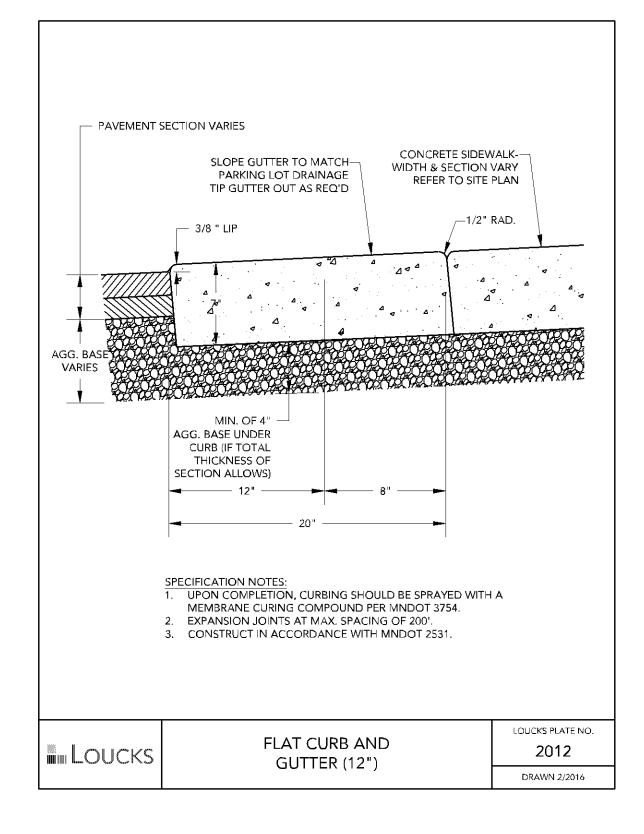
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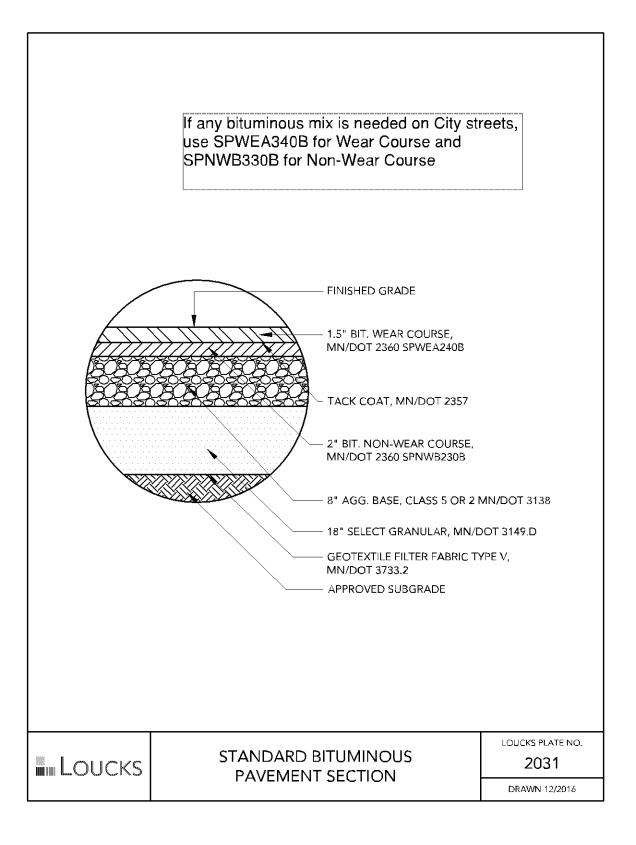
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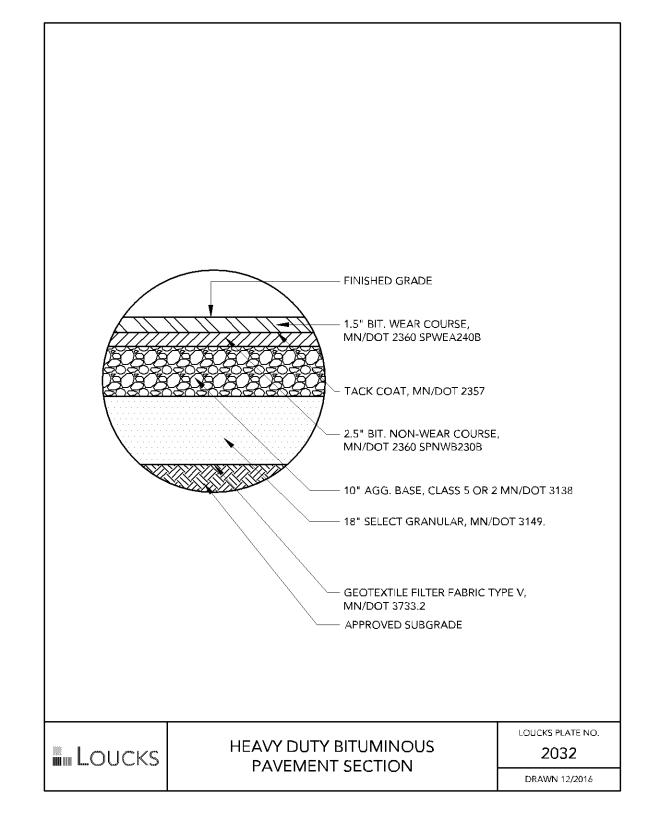
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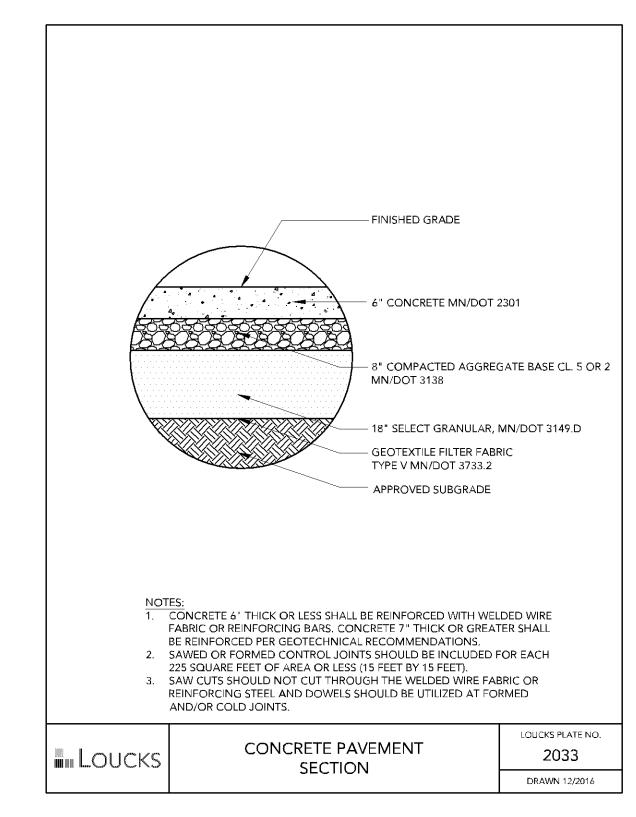
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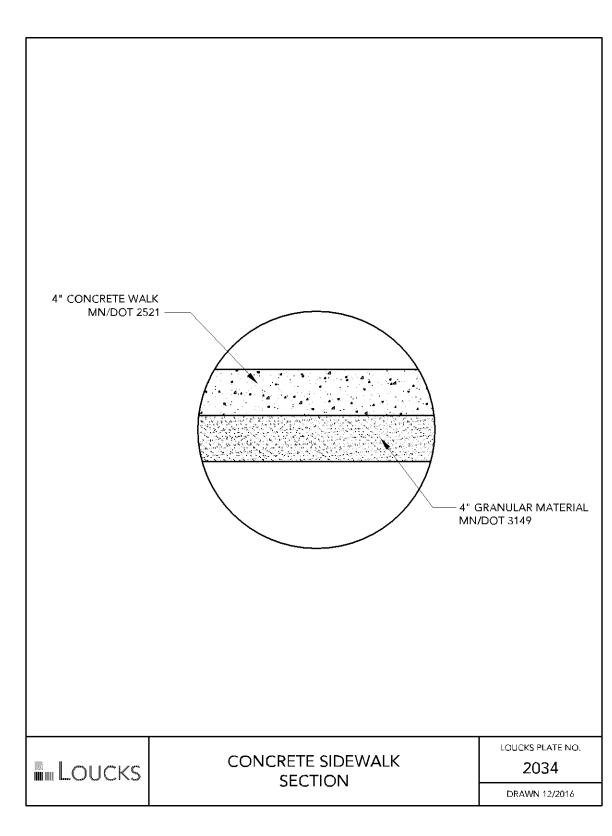


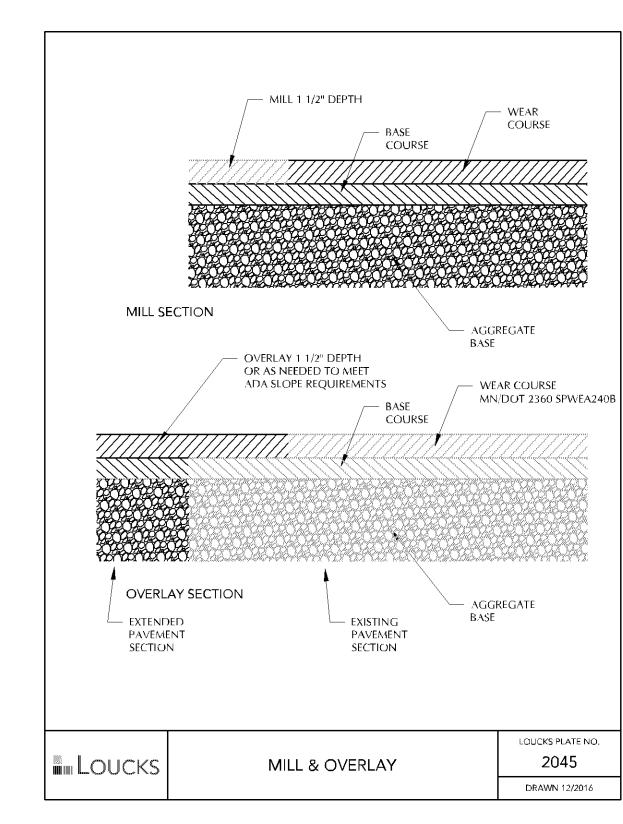


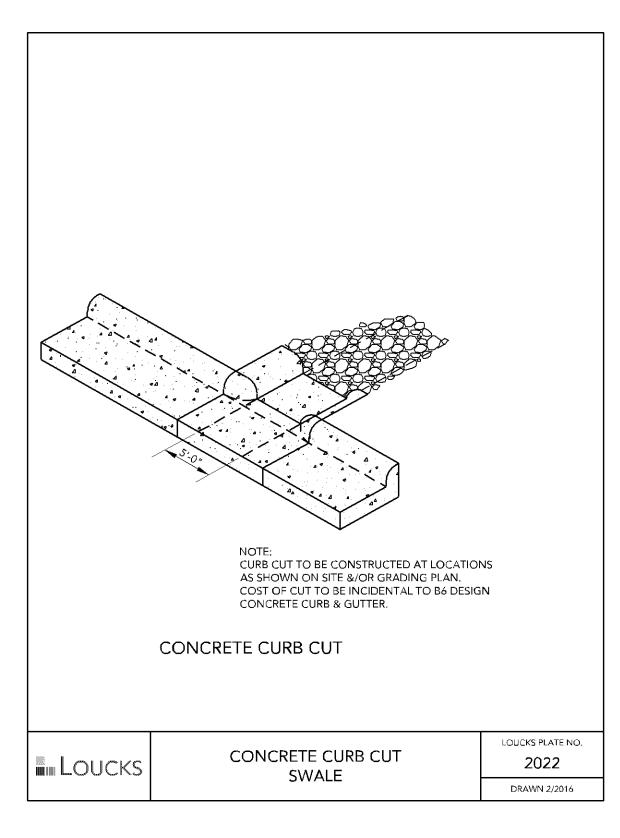


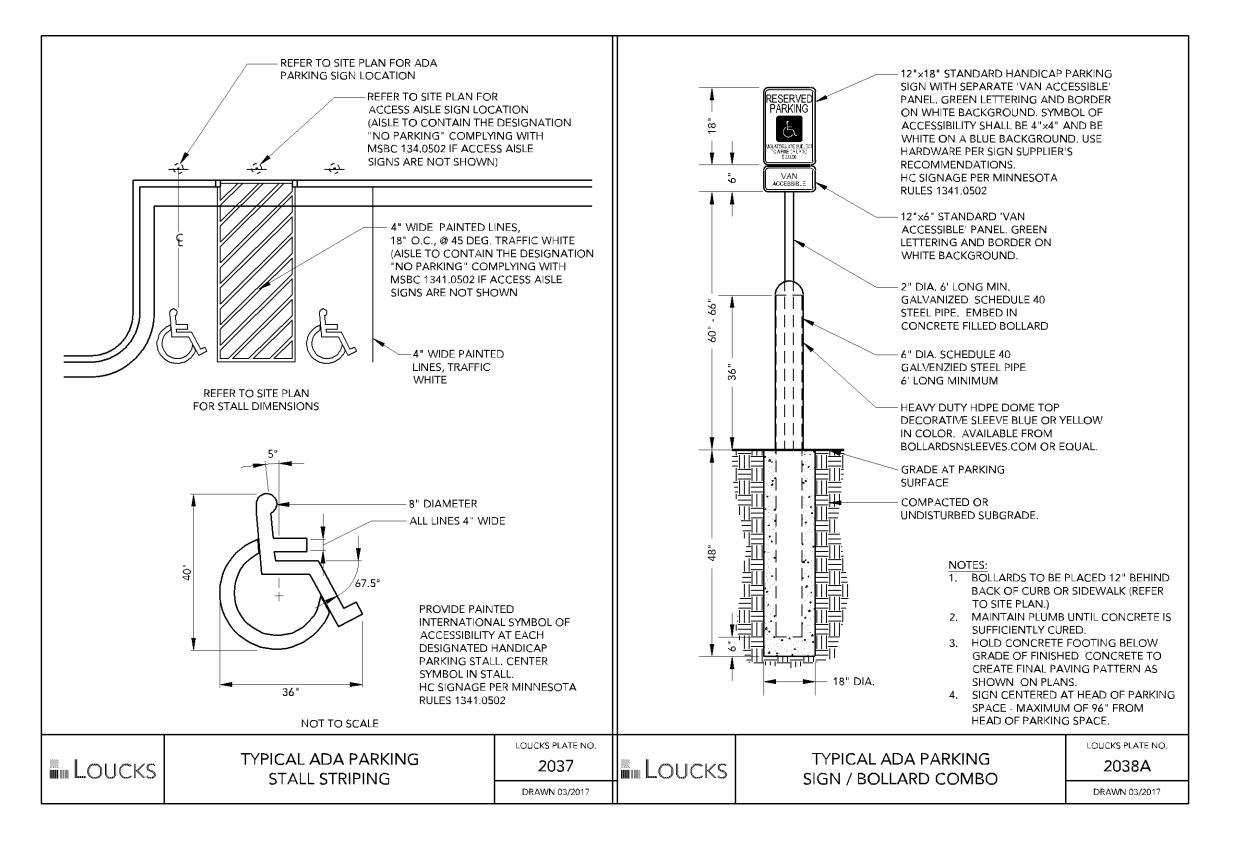


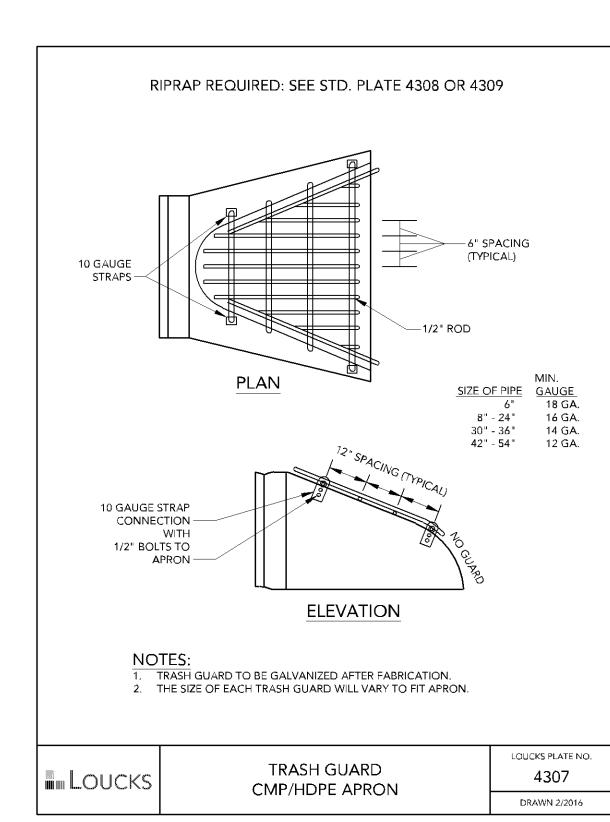


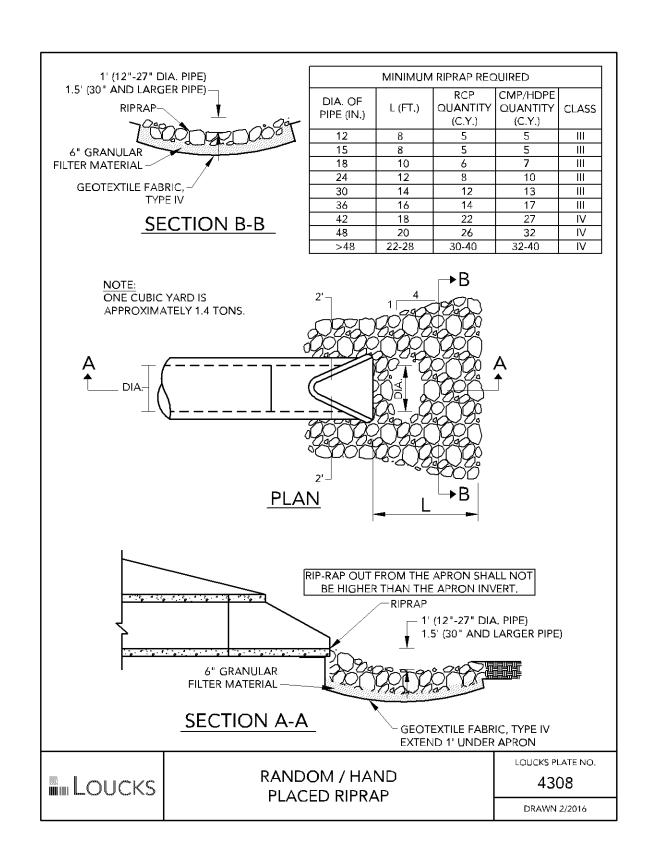


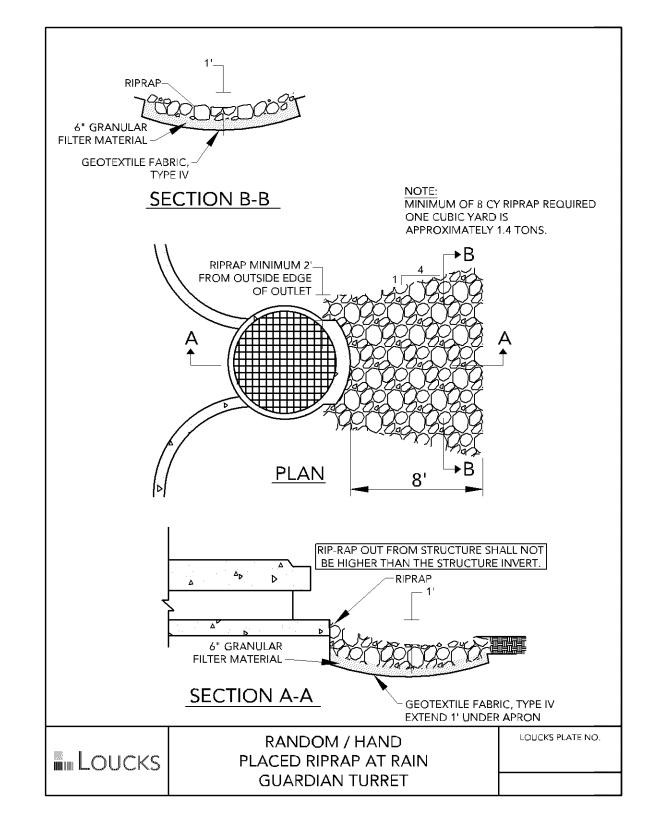


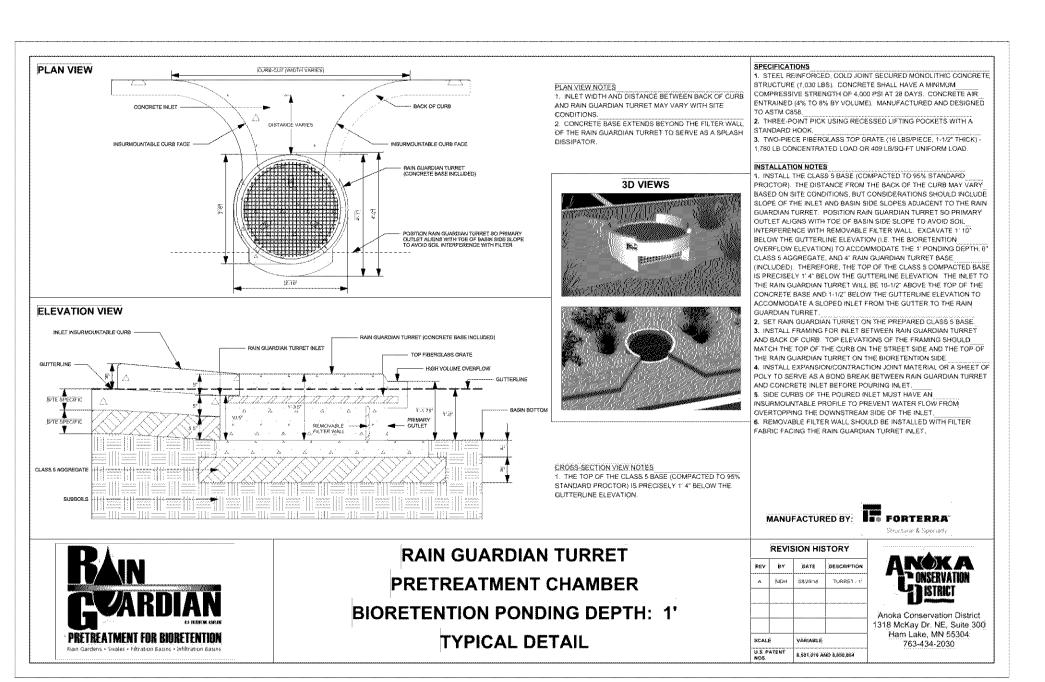














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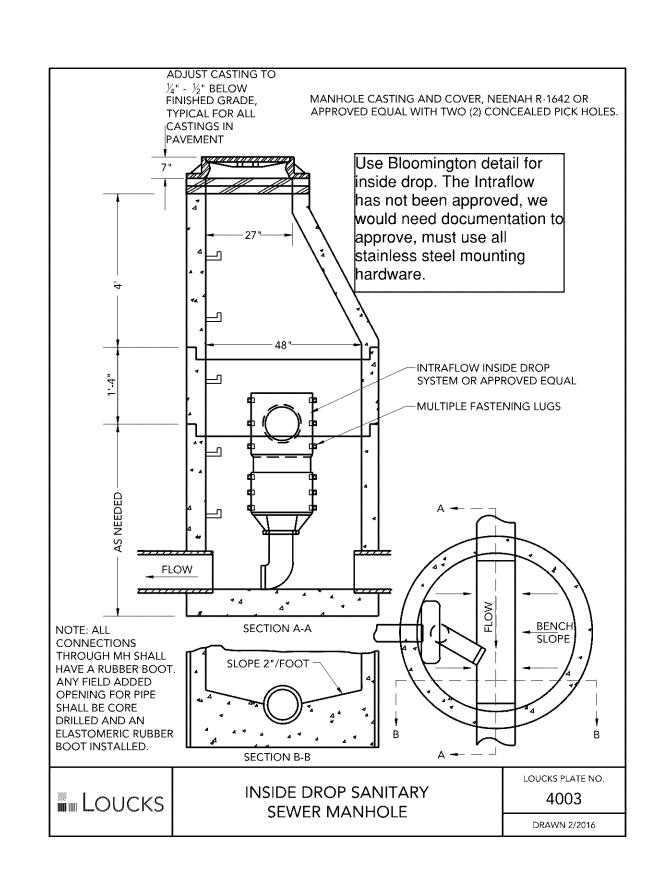
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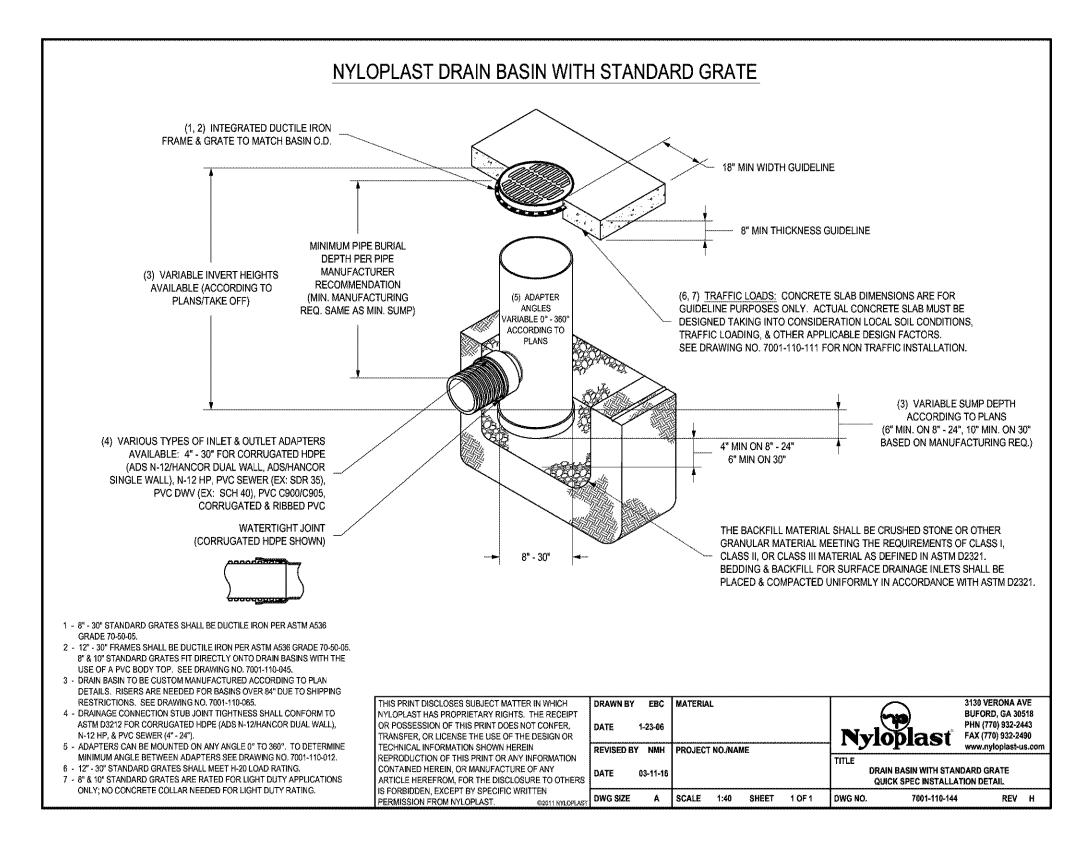
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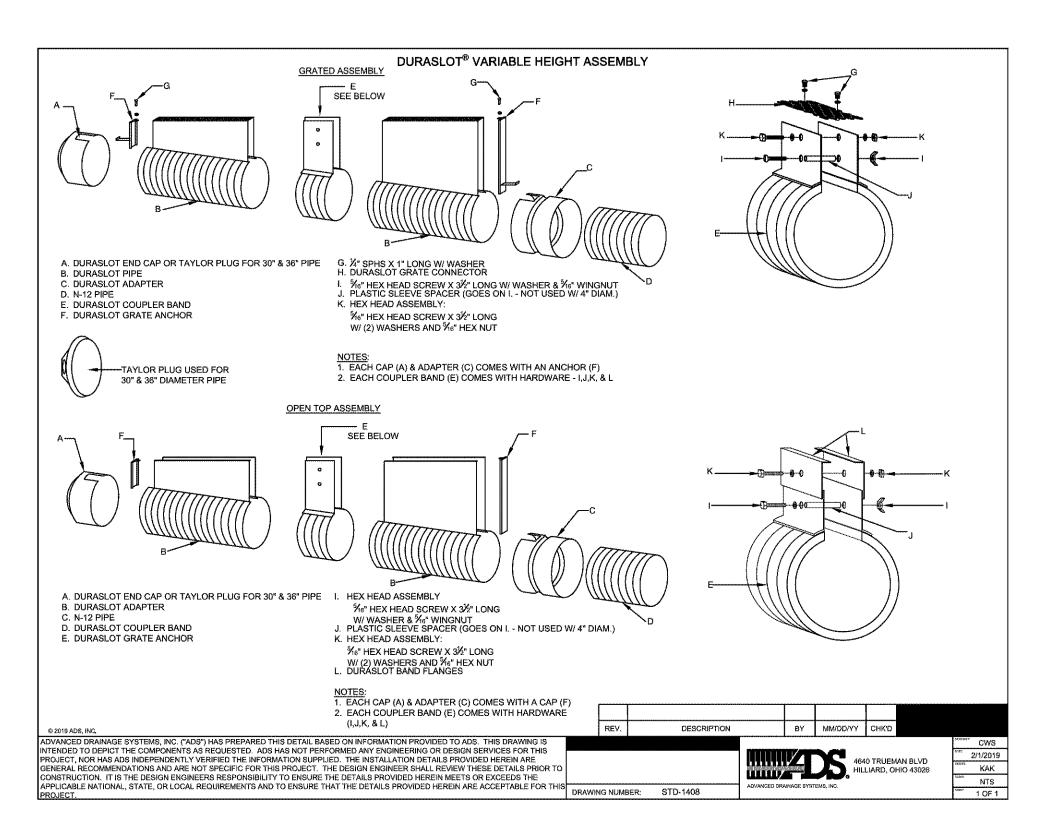
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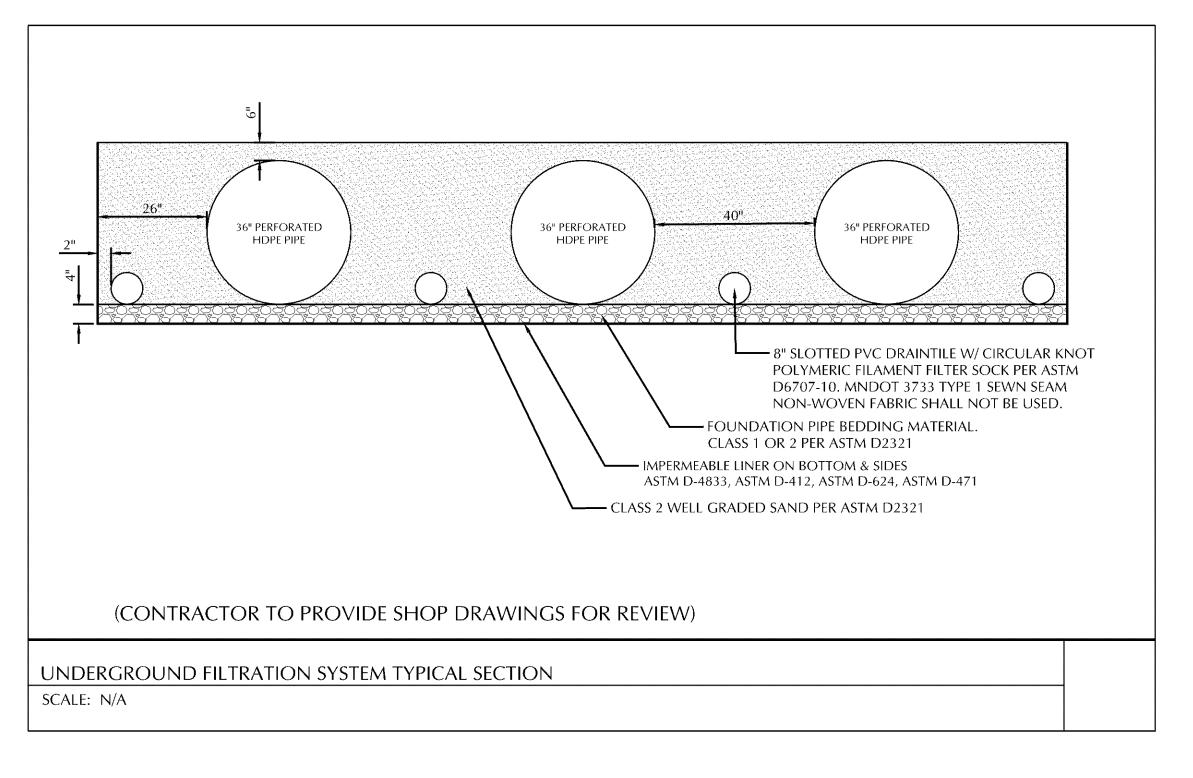
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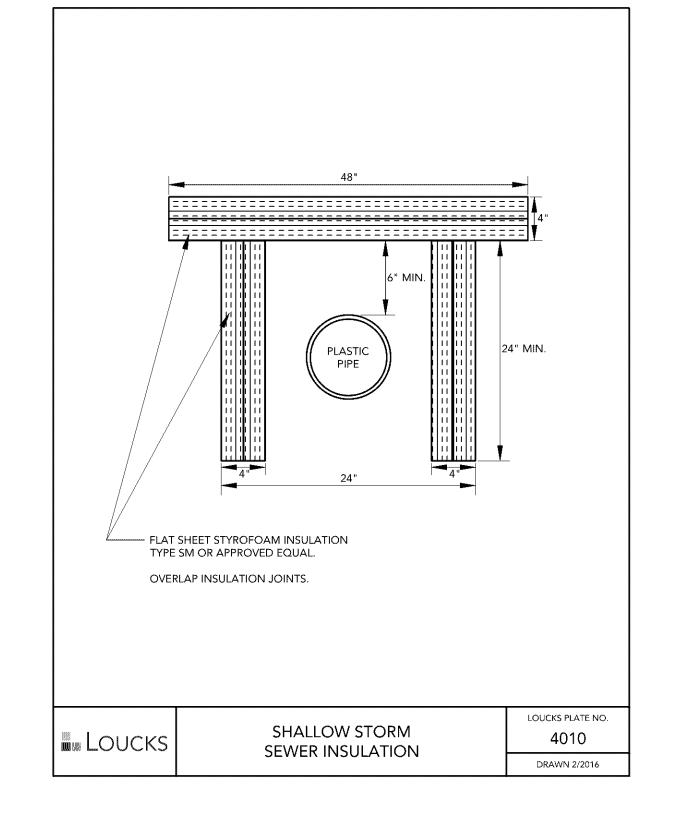
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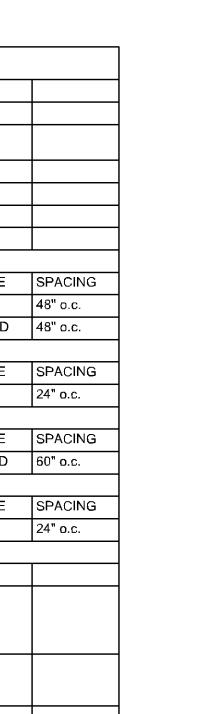
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CIVIL DETAILS

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DECIDUOUS TREES	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	
RO	28	CRIMSON SPIRE OAK	Quercus robur x Q. alba `Crimschmidt`	В&В	2.5"Cal	
RB	8	RIVER BIRCH CLUMP	Betula nigra	B & B	8, HGL	
SGM	6	SIENNA GLEN MAPLE	Acer freemanii `Sienna Glen`	В&В	2.5"Cal	
SKH	23	SKYLINE HONEYLOCUST	Gleditsia triacanthos `Skycole`	B&B	2.5"Cal	
AM	6	STATE STREET MIYABE MAPLE	Acer miyabei `Morton`	В&В	2.5"Cal	
QB	20	SWAMP WHITE OAK	Quercus bicolor	B & B	2.5"Cal	
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
GAC	29	GREEN MOUND ALPINE CURRANT	Ribes alpinum `Green Mound`	5 gal	24" HGT	48" o.c.
GF	132	GRO-LOW FRAGRANT SUMAC	Rhus aromatica `Gro-Low`	5 gal	24" SPRD	48" o.c.
OBA COEC	loty.	LOOMNON NAME	IDOTANICAL MAME	IMINI CONT	IMIN OUZE	Topaoino
GRASSES	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
FG	152	FEATHER REED GRASS	Calamagrostis x acutiflora `Karl Foerster`	1 gal		24" o.c.
CONIFEROUS SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
SG	100	SEA GREEN JUNIPER	Juniperus chinensis `Sea Green`	5 gal	18" SPRD	60" o.c.
PERENNIALS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
SD	55	STELLA D' ORO DAYLILY	Hemerocallis x `Stella de Oro`	1 gal		24" o.c.
GROUND COVERS	CODE	COMMON NAME	BOTANICAL NAME	T	T	T
SKOOND COVERS	NS	NATIVE SEED MIX STORMWATER SOUTH & WEST BWSR SEED MIX - #33-261. APPLY PER MNDOT SEEDING MANUAL	BOTANICAL IVAIVIL			
	SM 1	STONE MULCH WASHED GREY TRAP ROCK 2.5" 3" DEPTH OVER FABRIC				
	SM 2	STONE RIP RAP GREY TRAP ROCK RIP RAP SIZE - 5"-12" OVER FABRIC				
	SOD	TURF SOD				
	WM 1	WOOD MULCH SHREDDED HARDWOOD BARK MULCH				



LANDSCAPE REQUIREMENTS : TREE & SHRUB REQUIREMENTS 1 TREE PER 2,500 SF OF DEVELOPMENT LANDSCAPING AREA 1 SHRUB PER 1,000 SF OF DEVELOPMENT LANDSCAPING AREA Development Landscaping Area would DEVELOPMENT LANDSCAPING AREA: 256,100 SF include all areas of site disturbance if the TREES REQUIRED - 102 base material is replaced or disturbed. SHRUBS REQUIRED - 256 Please verify mill and overlay areas do not include disturbance of base material. EXISTING TREES WITHIN DEVELOPMENT LANDSCAPE AREA: 8 **EXISTING TREES REMOVED: 8** EXISTING TREES SAVED: () EXISTING SHRUBS WITHIN DEVELOPMENT LANDSCAPE AREA: 0 Based upon the development landscape area provided, the landscape plan is NEW TREES PROVIDED: 91 deficient by 19 trees based upon required NEW SHRUBS PROVIDED: 256 landscaping and proposed removals. An LANDSCAPE YARD PROVIDED ALONG COMPUTER AVE AND SITE PERIMETER updated landscape plan with 110 trees must be provided. 1 TREE PER PARKING LOT ISLAND PROVIDED PARKING LOT SCREENING IS NOT REQUIRED. DISTANCE TO PARKING LOT FROM STREET IS GRATER THAN 40 FEET

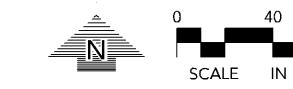
CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. CONTRACTOR TO INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK. VERIFY LAYOUT AND ANY DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT. ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED. CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING PLANTING OPERATIONS. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.

GENERAL NOTES:

CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF ALL UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION / MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0" CLEARANCE). ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO

NOT CUT THROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN. SOIL FOR PARKING LOT ISLANDS SHOULD BE COMPOSED OF A 1:1:1 MIX EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER OF SOIL, COMPOST AND SAND. THE EXISTING SOIL SHOULD BE EXISTING ELEMENTS BASED UPON INFORMATION SUPPLIED TO EXCAVATED TO A MINIMUM DEPTH OF TWO FEET AND BE REPLACED WITH LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY ANY THE APPROVED SOILS MIX. AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.

> THE ALIGNMENT AND GRADES OF THE PROPOSED WALKS, TRAILS AND/OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. ANY CHANGE IN ALIGNMENT MUST BE APPROVED BY LANDSCAPE ARCHITECT.



NOTE: EXISTING CONDITIONS INFORMATION SHOWN IS FROM A TOPO SURVEY PREPARED BY SEH AND DATED JUNE, 2020.



WARNING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF



SEAGATE

MINNESOTA CAMPUS PARKING



380 St. Peter Street, Ste. 600 Saint Paul, MN 551**0**2 6**5**1.222.3**701** bwbr.com

LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL 7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505 www.loucksinc.com

LOUCKS PROJECT NO. 20244

CIVIL ENGINEERING

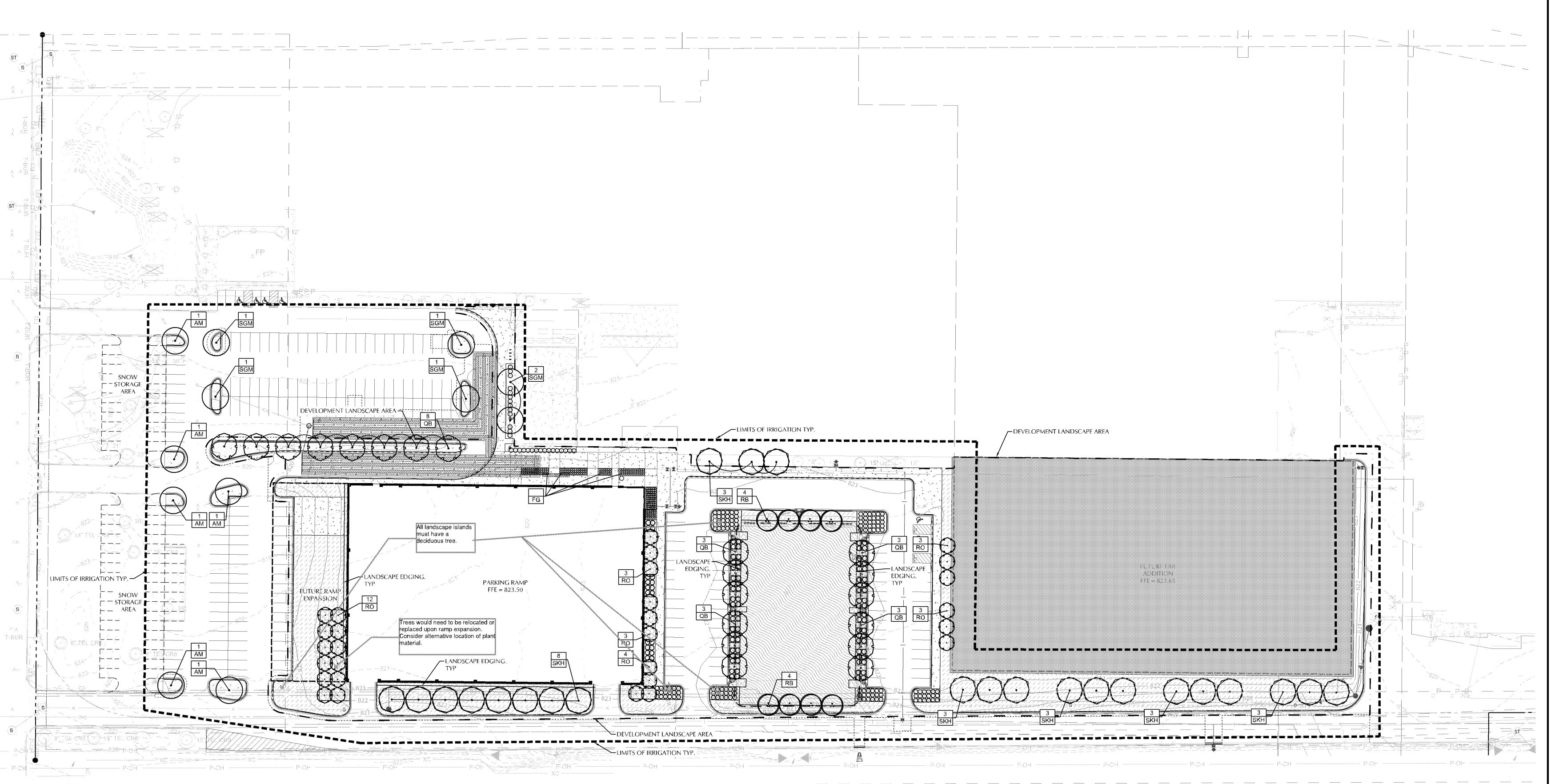
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I hereby certify that this plant specification or report was prepared by me or under my direct supervision and that I am a duly Licensed/Registered Lannscape Architect under the laws of fine State of Minnesota

Date **07-08-2020** Lic./Reg. No. **52050**

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LANDSCAPE PLAN



LANDSCAPE INSTALLATION:

COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.

NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

WHERE SOD/SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB,

SEED ALL AREAS DISTURBED DUE TO GRADING OTHER THAN THOSE AREAS NOTED TO RECEIVE SOD. SEED SHALL BE INSTALLED AND MULCHED AS PER MNDOT SPECS.

SOD ALL DESIGNATED AREAS DISTURBED DUE TO GRADING. SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, THE SOD SHALL BE STAKED TO THE GROUND.

ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, ALL SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED MINIMUM SHRUB HEIGHT OR WIDTH. ORNAMENTAL TREES SHALL HAVE NO V CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 5' ABOVE FINISHED GRADE.

ANY CONIFEROUS TREE PREVIOUSLY PRUNED FOR CHRISTMAS TREE SALES SHALL NOT BE USED. ALL CONIFEROUS TREES SHALL BE FULL FORM, NATURAL TO THE SPECIES, WITHOUT PRUNING.

PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.

ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE

LANDSCAPE ARCHITECT MUST BE NOTIFIED.

FLAGGING AND LABELS FROM PLANTS.

IRRIGATION NOTES:

ABUTTING BUILDING FOUNDATION.

VERIFY EXISTING/PROPOSED IRRIGATION SYSTEM LAYOUT AND

CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION AS A PART OF THE

SCOPE OF WORK WHEN BIDDING. THESE SHALL BE APPROVED BY THE

THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN

CONDITIONS AND TO PLANT MATERIAL GROWTH REQUIREMENTS.

IRRIGATION SYSTEM IS NOT TO SPRINKLE ACROSS PAVEMENT. THE

PLANTINGS OUTSIDE THE LIMITS OF IRRIGATION ARE TO BE WATERED

SYSTEM SHALL INCORPORATE A RAIN SENSOR INTO IRRIGATION

REGULARLY UNTIL PLANTING/SOD/SEED HAS BEEN ESTABLISHED.

LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR INSTALLATION. IT SHALL BE THE LANDSCAPE CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL SODDED/SEEDED AND PLANTED AREAS ARE IRRIGATED

PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND

IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE

ALL WRAPPING AFTER 5-1.

SHOP DRAWINGS.

ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH A 27-3-3 SLOW RELEASE FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS. PLANTS MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 27-3-3 AT 6 OZ PER 2.5" CALIPER PER TREE AND 3 OZ PER SHRUB WITH AN ADDITIONAL APPLICATION OF 27-3-3 THE FOLLOWING SPRING IN THE TREE SAUCER.

ALL PLANTING AREAS RECEIVING PERENNIALS, GROUND COVER, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 12" DEPTH OF PLANTING SOIL CONSISTING OF 5 PARTS CLEAN TOPSOIL AND 1 PART PEAT. SHRUBS AND TREES TO BE BACKFILLED WITH SAME PLANTING SOIL. ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS. REMOVE ALL

WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1" GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO 12-1 AND REMOVE PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

BLACK METAL EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS, AND ANNUALS WHERE BED MEETS SOD/SEED UNLESS NOTED OTHERWISE.

ALL ANNUAL AND PERENNIAL PLANTING BEDS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH WITH NO WEED BARRIER. ALL SHRUB BED MASSINGS TO RECEIVE 3" DEEP SHREDDED HARDWOOD MULCH AND FIBER MAT WEED BARRIER. ALL TREES TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.

SPREAD GRANULAR PRE EMERGENT HERBICIDE (PREEN OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS UNDER ALL MULCHED AREAS.

MAINTENANCE STRIPS TO HAVE EDGER AND MULCH AS SPECIFIED/INDICATED ON DRAWING OR IN SPECIFICATION.

IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, HE MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.

CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE/PEST CONTROL.

CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.

WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

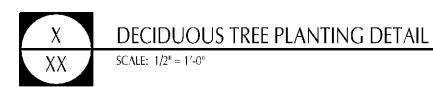
UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED/SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

FALL SODDING IS GENERALLY ACCEPTABLE FROM AUGUST 15 - NOVEMBER 1. FALL SEEDING FROM AUGUST 15 - SEPTEMBER 15; DORMANT SEEDING IN THE FALL SHALL NOT OCCUR PRIOR TO NOVEMBER 1. FALL CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 - OCTOBER 1 AND DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

PROTECT ALL EXISTING OAKS ON SITE SCHEDULED TO REMAIN. IF EXISTING OAKS ARE DAMAGED IN ANY MANNER, ABOVE OR BELOW GROUND IN THE ROOT SYSTEM, AN ASPHALTIC TREE PRUNING PAINT SHOULD BE APPLIED IMMEDIATELY AFTER WOUNDING. OAKS ARE NOT TO BE PRUNED, REMOVED OR TRANSPLANTED BETWEEN APRIL 15 AND JULY 1. NOTIFY LANDSCAPE ARCHITECT IF THESE DATES ARE UNAVOIDABLE.

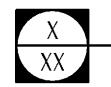
LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS SUGGESTED, BUT NOT REQUIRED. ANY STAKING MUST CONFORM WITH PRACTICES AS DEFINED IN A.N.A. GUIDELINES FOR STANDARD PRACTICES PRUNE DAMAGED AND CROSSING BRANCHES AFTER PLANTING IS COMPLETE. CUT BACK WIRE BASKET WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO MAINTAIN PLUMB. —— 16"x2" POLYPROPYLENE OR POLYETHYLENE STRAP —— TREE WRAP TO FIRST BRANCH —— SAFETY FLAGGING - ONE PER WIRE —— ROOT FLARE EVEN WITH OR JUST ABOVE GRADE. —— MULCH - 4" DEEP. NO MULCH IN CONTACT WITH TRUNK - SEE NOTES OR SPECS. —— BACKFILL WITH IN SITU TOPSOIL 2x ROOT BALL\\VIDTH WOOD STAKE (OPTIONAL) EDGE VARIES - SEE PLAN SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING SET PLANT ON UNDISTURBED NATIVE SOIL CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF POOR DRAINAGE EXISTS.



- Deciduous TheaDVvC

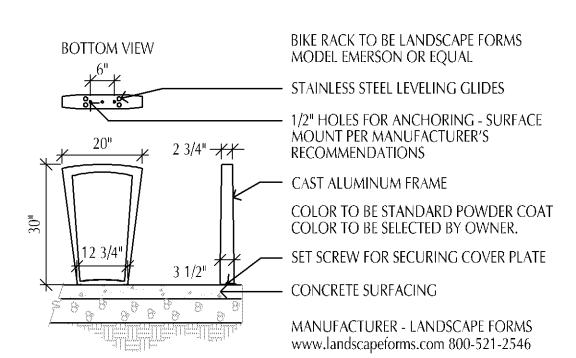
———— SHRUBS TO BE PLACED SO THAT TOP OF CONTAINER SITS FLUSH WITH PROPOSED GRADE. ——— PLANTING SOIL - SEE NOTES OR SPEC. MULCH - 3" DEPTH - SEE NOTES OR SPEC. LANDSCAPE FABRIC - SEE NOTES OR SPEC. EDGING MATERIAL - SEE NOTES OR SPEC. — EDGE VARIES - REFER TO PLAN LOOSEN ROOTS OF ALL CONTAINERIZED PLANTS. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING — BUILDING WALL (TYP)

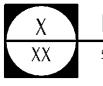


REFER TO PLAN

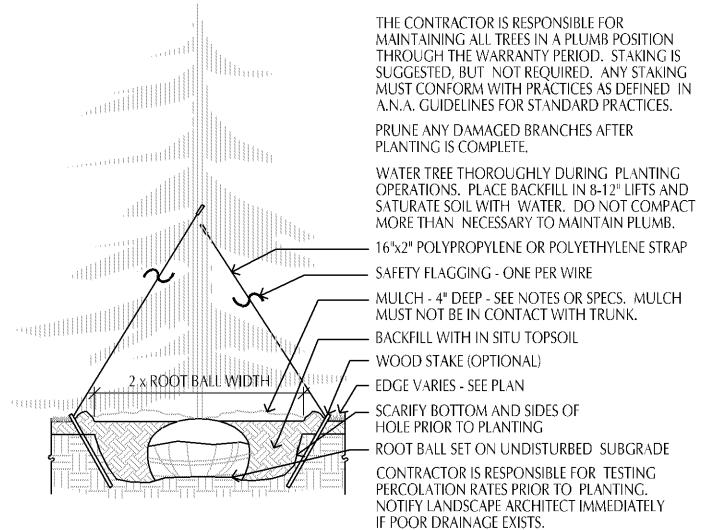
18" MIN.

SHRUB PLANTING DETAIL





EMERSON BIKE RACK



CONIFEROUS TREE PLANTING DETAIL

Coniterous Tree.DAVG

SEE PLAN MULCH - 3" MIN. DEPTH - SEE NOTES OR SPECS. EDGER - SEE NOTES OR SPECS. ——— EDGE VARIES - SEE PLAN — 12" DEPTH (MIN), LOAM PLANTING SOIL - SEE NOTES OR SPECS. LOOSEN ROOTS OF PLANT MATERIAL PRIOR TO PLANTING



CASE #PL2020-112



MINNESOTA CAMPUS PARKING



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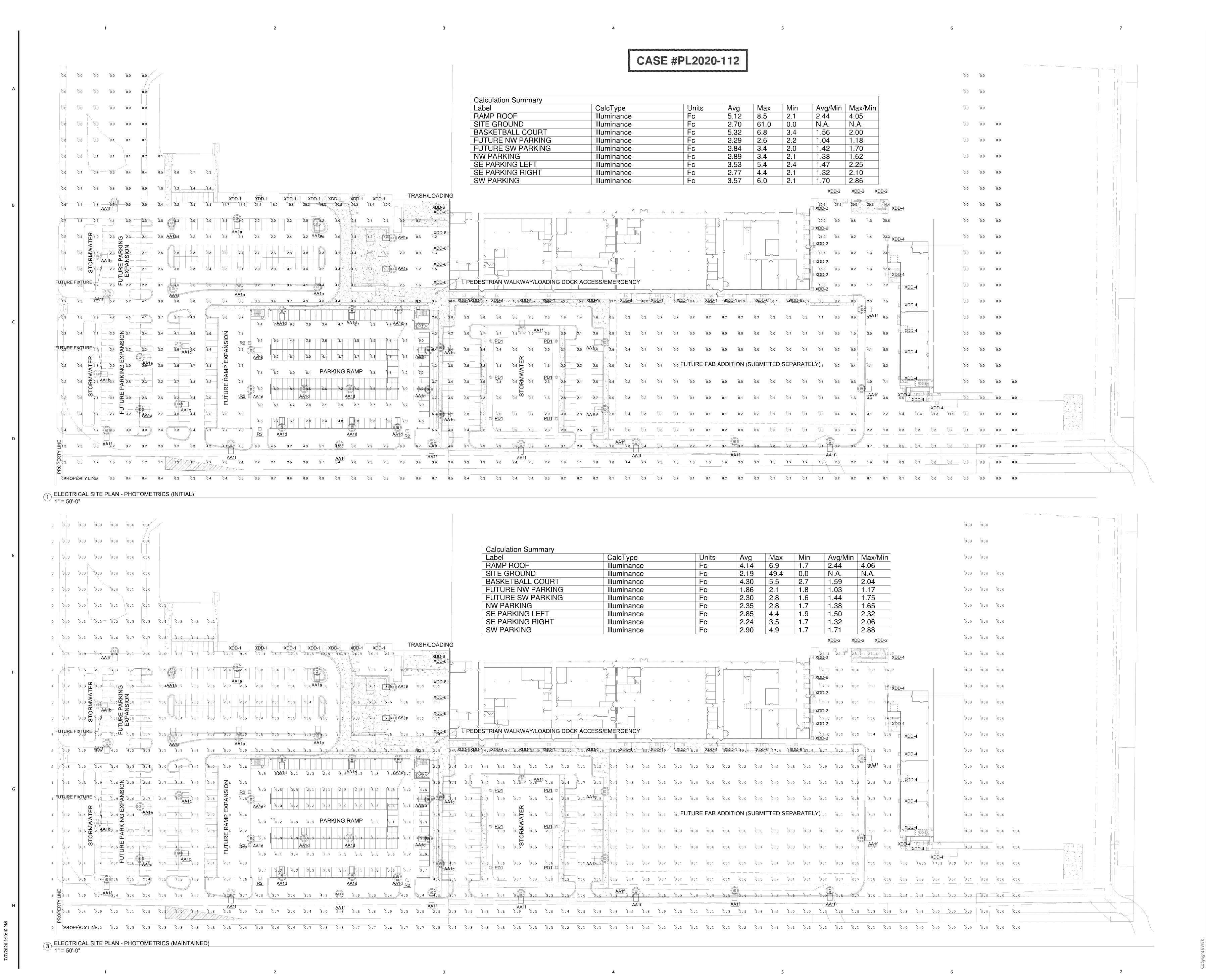
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed/Registered Lannscape Architect under the laws of the State of Minnesota

Nathan Ekhoff - LA Date **07-08-2020** Lic./Reg. No. **52050**

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LANDSCAPE DETAILS





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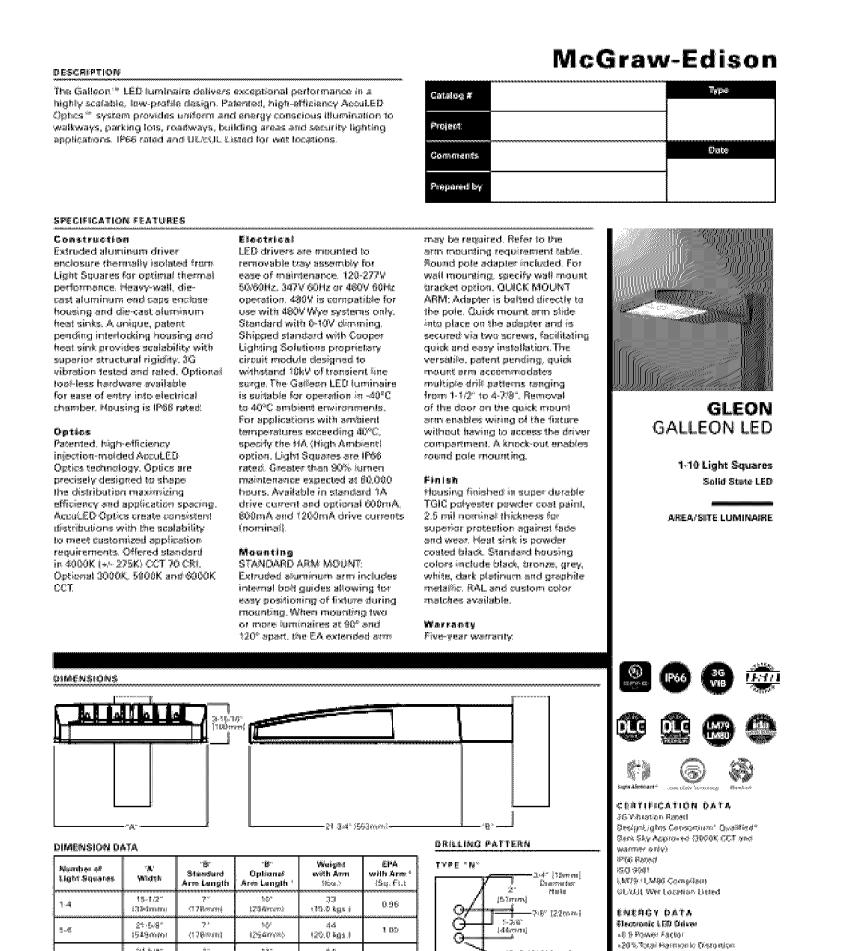
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ELECTRICAL SITE PLAN -PHOTOMETRIC CALCULATIONS

				LAMF	PS										POLE DESCR	PIPTION					BASE DESCRIPTION								
				L/XIVII		+									7 322 32301		SUPPORTS				BASE	BASE	CAIL HON						
																SUPPORTS	FLAG OR	INTEGRAL			HEIGHT	DEPTH							
FIXTURE						BALLAST/	FIXTURE	CONTROL MEDIA (LENS,			POLE	POLE	POLE	POLE COLOR/	FIXTURE	CCTV CAMERA	BANNER (EPA	DUPLEX	VIBRATION		ABOVE	BELOW	BASE	VERTICAL					
LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	TYPE	COLOR	DRIVER	MAX VA	LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	LENGTH	SHAPE	MATERIAL	FINISH	MOUNTING	(EPA RATING)	RATINĠ)	RECEPTACLE	DAMPERS	FOUNDATION	GRADE	GRADE	DIAMETER	REBARS	REBAR TIES NOTES				
AA1a	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	32055 LUMENS		1A DRIVE CURRENT	279 VA	TYPE 5WQ DISTRIBUTION	MCGRAW EDISON GLEON	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	25'	SQUARE	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
AA1b	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	12461 LUMENS		1A DRIVE CURRENT	113 VA	TYPE T3 DISTRIBUTION	MCGRAW EDISON GLEON	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	25'	SQUARE	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
AA1c	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	24711 LUMENS	4000K	1A DRIVE CURRENT	225 VA	TYPE T4FT DISTRIBUTION	MCGRAW EDISON GLEON	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	25'	SQUARE	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
AA1d	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	24711 LUMENS	4000K	1A DRIVE CURRENT	225 VA	TYPE T4FT DISTRIBUTION	MCGRAW EDISON GLEON	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	20'	SQUARE	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
AA1f	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	18242 LUMENS	4000K	1A DRIVE CURRENT	166 VA	TYPE T2 DISTRIBUTION	MCGRAW EDISON GLEON	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	25'	SQUARE	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
PD1	PEDESTRIAN LIGHT	480	POLE	4529 LUMENS	4000K	1A DRIVE CURRENT	59 VA	TYPE T5 DISTRIBUTION	INVUE ARB-B2-LED-D1-T5	-	10'	ROUND	STEEL	BRONZE	ARM	YES	NO	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3				
R2	WEATHER PROOF WALL PACK - TRAPEZOID	120/277	WALL	6542 LUMENS	3500K	1A DRIVE CURRENT	59 VA	CLEAR TEMPERED GLASS, TYPE T4FT DISTRIBUTION	COOPER-MCGRAW-EDISON GWC	MOUNT AT 10'															-				
XDD-1	EXISTING TO REMAIN KIM LIGHTING	-	WALL	12808 LUMENS	-	-	250 VA	-	WD18D3-250W MH-BL-P	12' MOUNTING HEIGHT, LLF ADJUST FOR 23000 LUMENS															-				
	EXISTING TO REMAIN KIM LIGHTING		WALL	12808 LUMENS	-	-	250 VA	-	WD18D3-250W MH-BL-P	14' MOUNTING HEIGHT, LLF ADJUST FOR 23000 LUMENS															-				
	EXISTING TO REMAIN KIM LIGHTING	-	WALL	12808 LUMENS	-	-	250 VA	-	WD18D3-250W MH-BL-P	16' MOUNTING HEIGHT, LLF ADJUST FOR 23000 LUMENS															-				
XDD-6	EXISTING TO REMAIN KIM LIGHTING	-	WALL	12808 LUMENS	-	-	250 VA	-	WD18D3-250W MH-BL-P	20' MOUNTING HEIGHT, LLF ADJUST FOR 23000 LUMENS															-				

AA1 PRODUCT DATA



MOTERN T. COLORAGO BETT for BULLY TO BE ARE BEFORE TRANSPORT VIBER FOR SOME AND WELL BOY BY HE REPORT OF BULLY

SOME STOP SOMEWER

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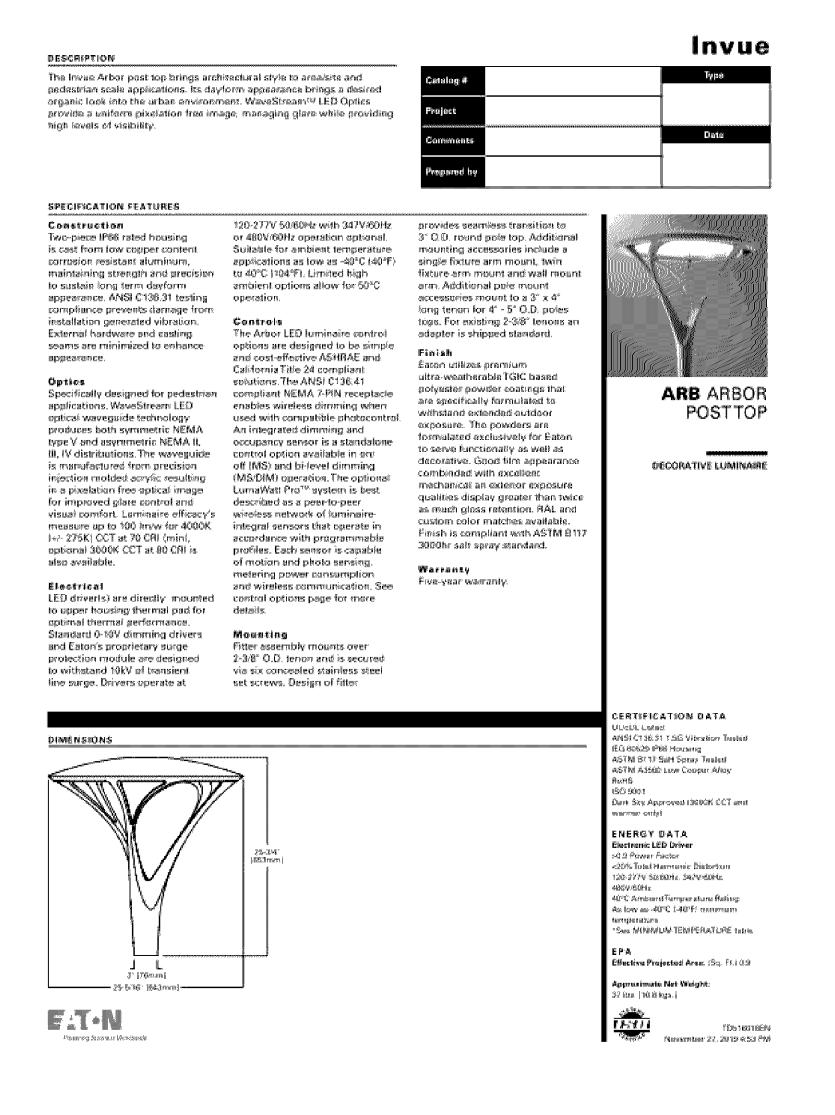
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Jane 7, ISPA 17 DE PM

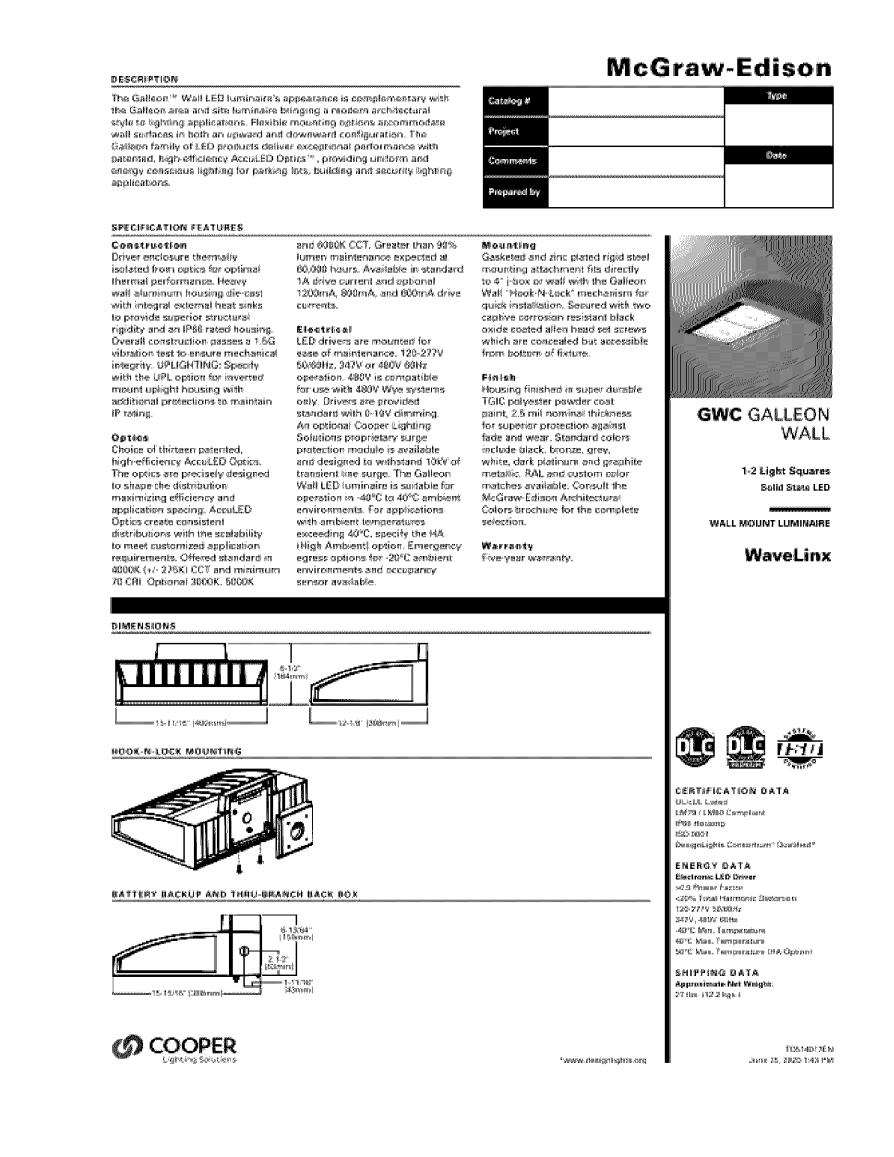
SATW ASOM GAME

"如如何的,我也要的真实的变色的,你不得

PD1 PRODUCT DATA



R2 PRODUCT DATA





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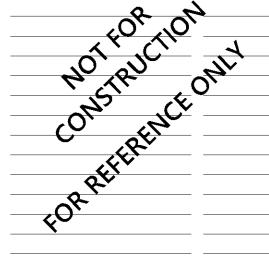
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Thereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

Date **7/8/2020** Lic./Reg. No. CITY SUBMISSION



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ELECTRICAL SITE PLAN -PHOTOMETRIC SCHEDULES

E101