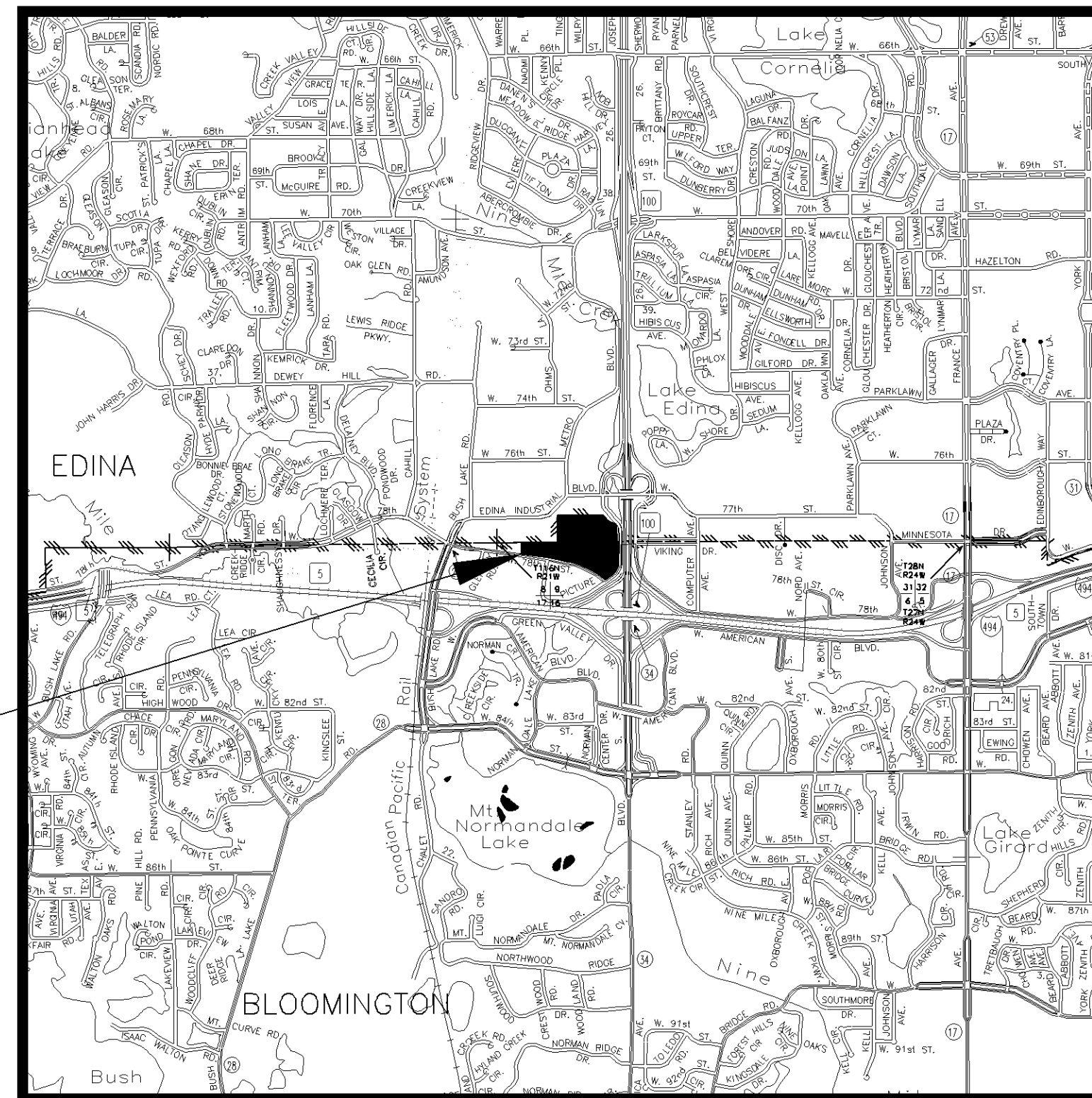


# DOUBLETREE PARKING LOT RECONFIGURATION

7800 NORMANDALE BOULEVARD,  
BLOOMINGTON, MN

## PRELIMINARY PLANS



PROJECT LOCATION

VICINITY MAP

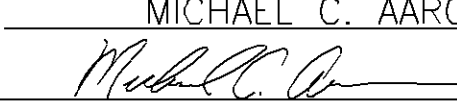


### SHEET INDEX

SHEET NO.	DESCRIPTION
C0.0	TITLE SHEET
C1.0	EXISTING CONDITIONS PLAN
C1.1	SITE DEMOLITION PLAN (EAST)
C1.2	SITE DEMOLITION PLAN (WEST)
C2.0	OVERALL SITE PLAN
C2.1	SITE PLAN (EAST)
C2.2	SITE PLAN (WEST)
C3.0	GRADING, DRAINAGE AND EROSION CONTROL PLAN (EAST)
C3.1	GRADING, DRAINAGE AND EROSION CONTROL PLAN (WEST)
△ C3.2 - C3.3	SWPPP NOTES
C4.0	UTILITY PLAN
C5.0	CIVIL DETAILS
L1.0	LANDSCAPE PLAN (EAST)
L1.1	LANDSCAPE PLAN (WEST)
L2.0 - L2.1	LANDSCAPE DETAILS
E1.0	SITE LIGHTING PLAN
E2.0 - E2.1	SITE LIGHTING DETAILS

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NO	DATE	BY	CKD	APPR	DESCRIPTION
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS △

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.  
 Print Name: MICHAEL C. AARON  
  
 Date 5/15/2017 License # 25721

DRAWN BY  
P. GALZKI  
 DESIGNED BY  
P. GALZKI  
 CHECKED BY  
M. AARON  
 COMM. NO. 10277.00



**ENGINEERS  
PLANNERS  
DESIGNERS**

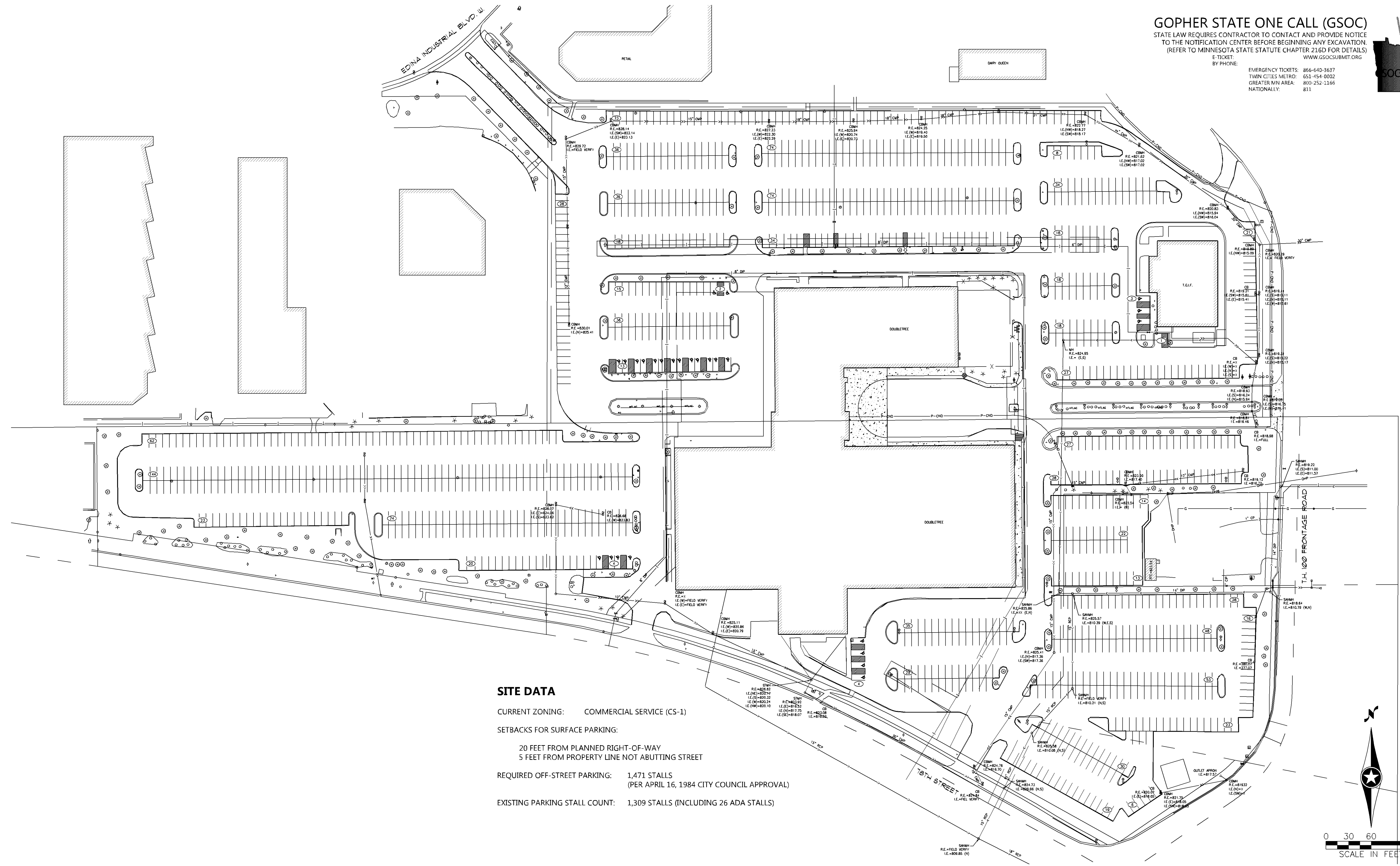
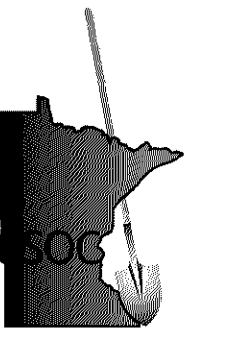
DOUBLETREE PARKING LOT RECONFIGURATION  
 7800 NORMANDALE BLVD  
 TITLE SHEET  
 BLOOMINGTON, MINNESOTA

SHEET  
C0.0

**GOPHER STATE ONE CALL (GSOC)**

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG  
 BY PHONE:  
 EMERGENCY TICKETS: 866-640-3637  
 TWIN CITIES METRO: 651-454-0002  
 GREATER MN AREA: 800-252-1166  
 NATIONALLY: 811



**SITE DATA**

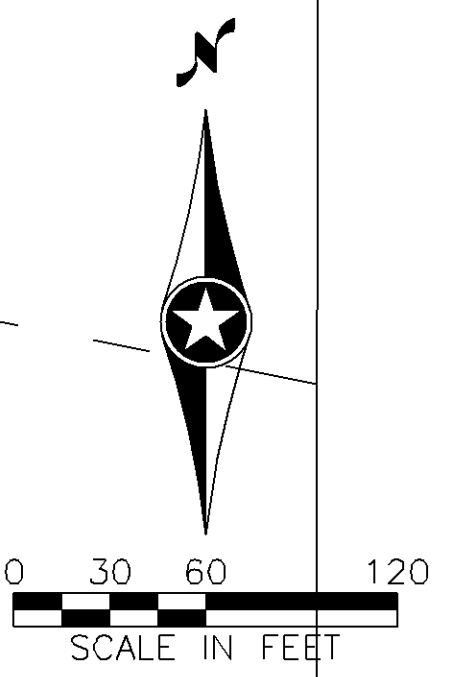
CURRENT ZONING: COMMERCIAL SERVICE (CS-1)

SETBACKS FOR SURFACE PARKING:

20 FEET FROM PLANNED RIGHT-OF-WAY  
 5 FEET FROM PROPERTY LINE NOT ABUTTING STREET

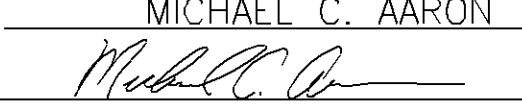
REQUIRED OFF-STREET PARKING: 1,471 STALLS  
 (PER APRIL 16, 1984 CITY COUNCIL APPROVAL)

EXISTING PARKING STALL COUNT: 1,309 STALLS (INCLUDING 26 ADA STALLS)



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NO	DATE	BY	CKD	APPR

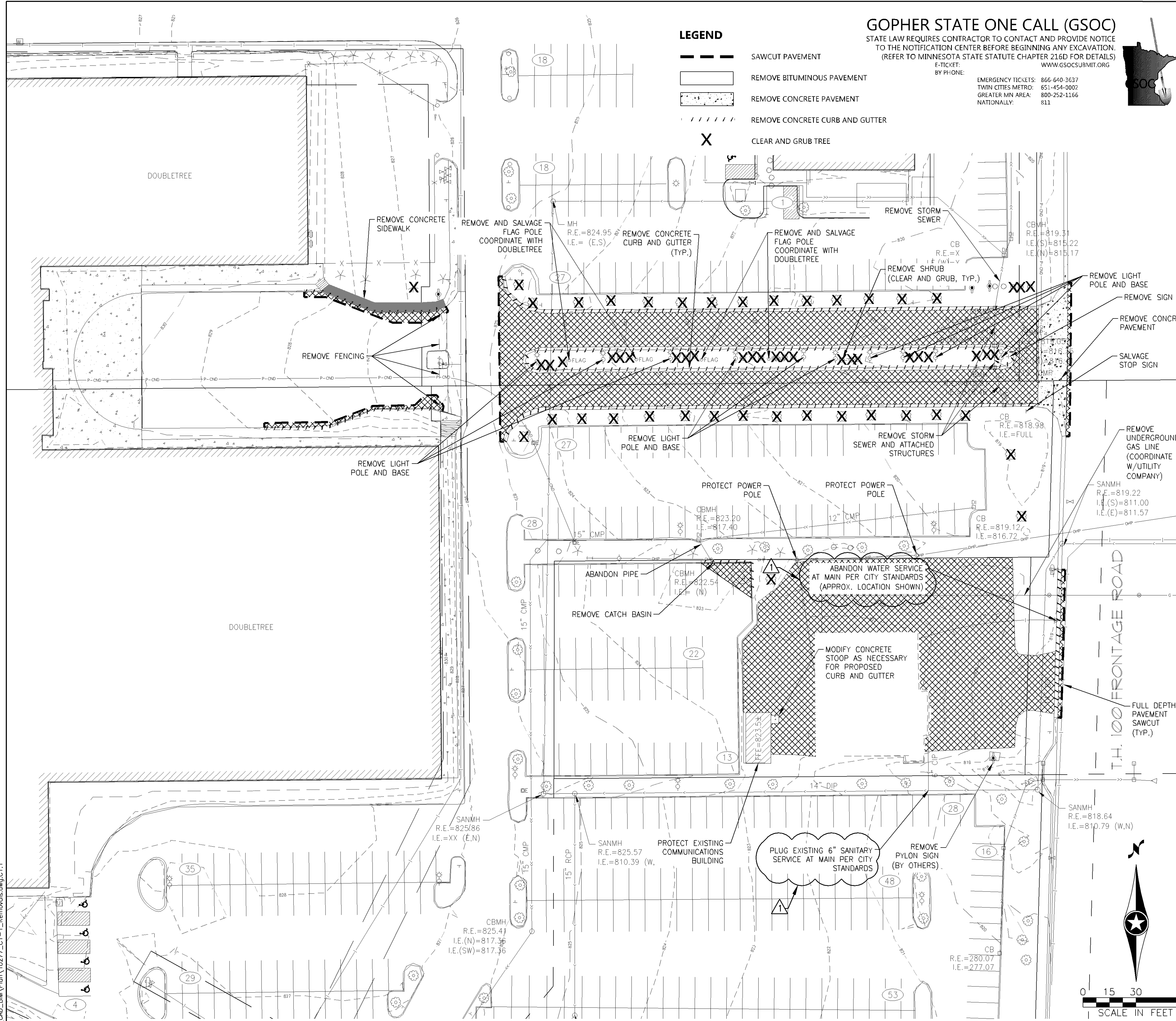
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: MICHAEL C. AARON  
  
 Date 5/15/2017 License # 25721

DRAWN BY: P. GALZKI  
 DESIGNED BY: P. GALZKI  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



**DOUBLETREE PARKING LOT RECONFIGURATION**  
 7800 NORMANDELE BLVD  
 EXISTING CONDITIONS PLAN  
 BLOOMINGTON, MINNESOTA

SHEET  
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### GENERAL NOTES

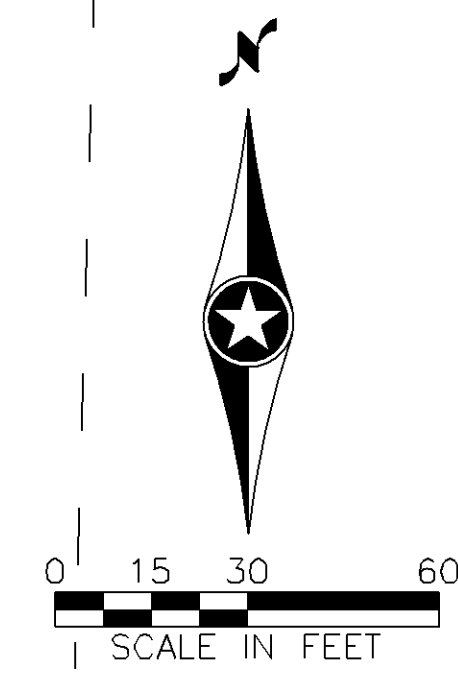
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- THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
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- EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

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- CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
- REMOVE EXISTING IRRIGATION SYSTEM WHERE IT CONFLICTS WITH CONSTRUCTION. SEE LANDSCAPE PLAN NOTES FOR PROPOSED IRRIGATION CONSTRUCTION.

### CITY OF BLOOMINGTON NOTES

- CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
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 Print Name: **MICHAEL C. AARON**  
 Date: 5/15/2017 License # 25721

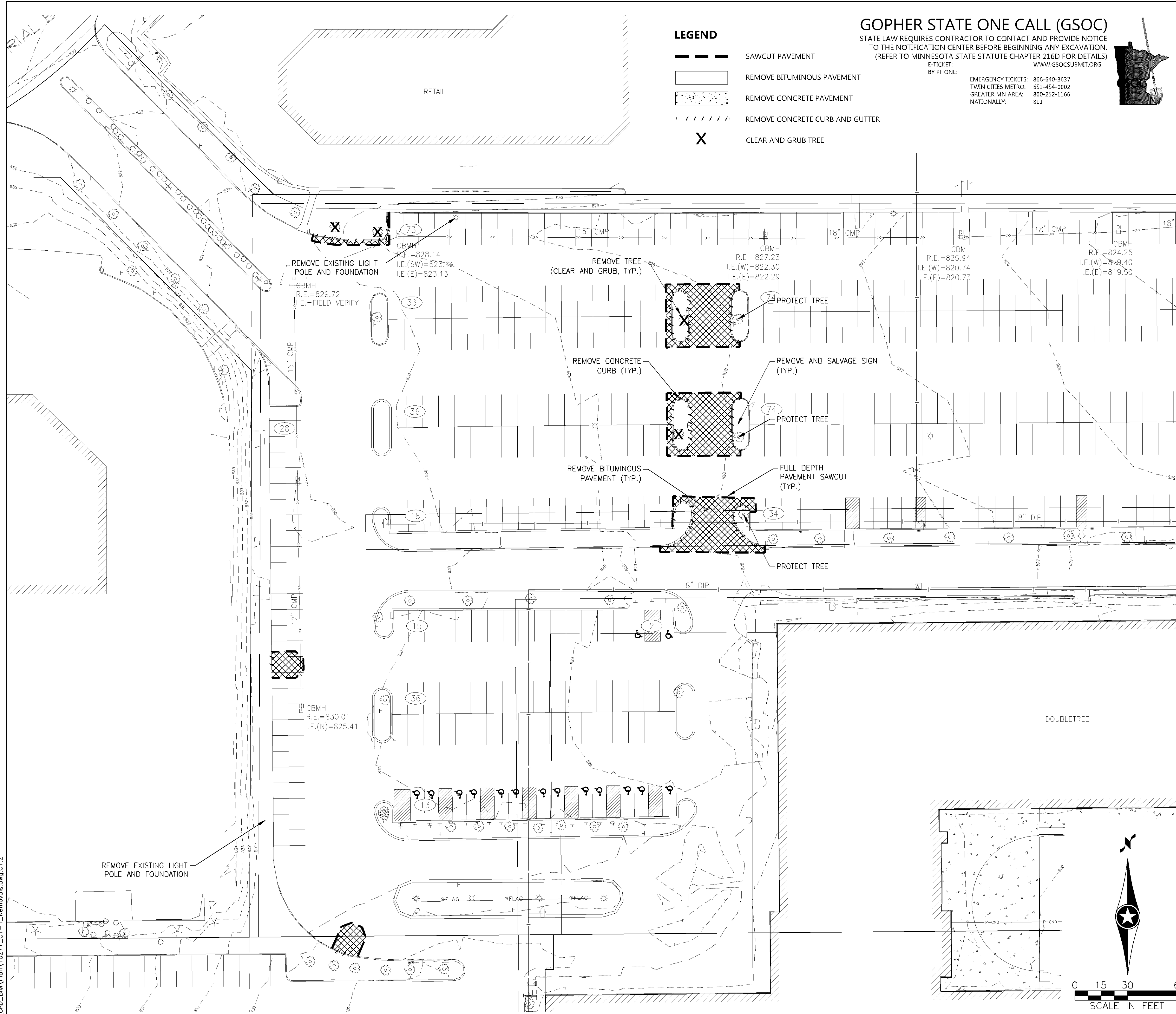
DRAWN BY: P. GALZKI  
 DESIGNED BY: P. GALZKI  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION  
 7800 NORMANDALE BLVD  
 SITE DEMOLITION PLAN (EAST)  
 BLOOMINGTON, MINNESOTA

SHEET  
 C1.1

NO	DATE	BY	CKD	APPR	REVISIONS
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS



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### LEGEND

- SAWCUT PAVEMENT
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE CURB AND GUTTER
- CLEAR AND GRUB TREE

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NO	DATE	BY	CKD	APPR

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.  
Print Name: **MICHAEL C. AARON**  
*Michael C. Aaron*  
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DOUBLETREE PARKING LOT RECONFIGURATION  
7800 NORMANDALE BLVD  
SITE DEMOLITION PLAN (WEST)  
BLOOMINGTON, MINNESOTA

SHEET  
C1.2

**SITE DATA**

CURRENT ZONING: COMMERCIAL SERVICE (CS-1)

SETBACKS FOR SURFACE PARKING:

20 FEET FROM PLANNED RIGHT-OF-WAY  
5 FEET FROM PROPERTY LINE NOT ABUTTING STREET

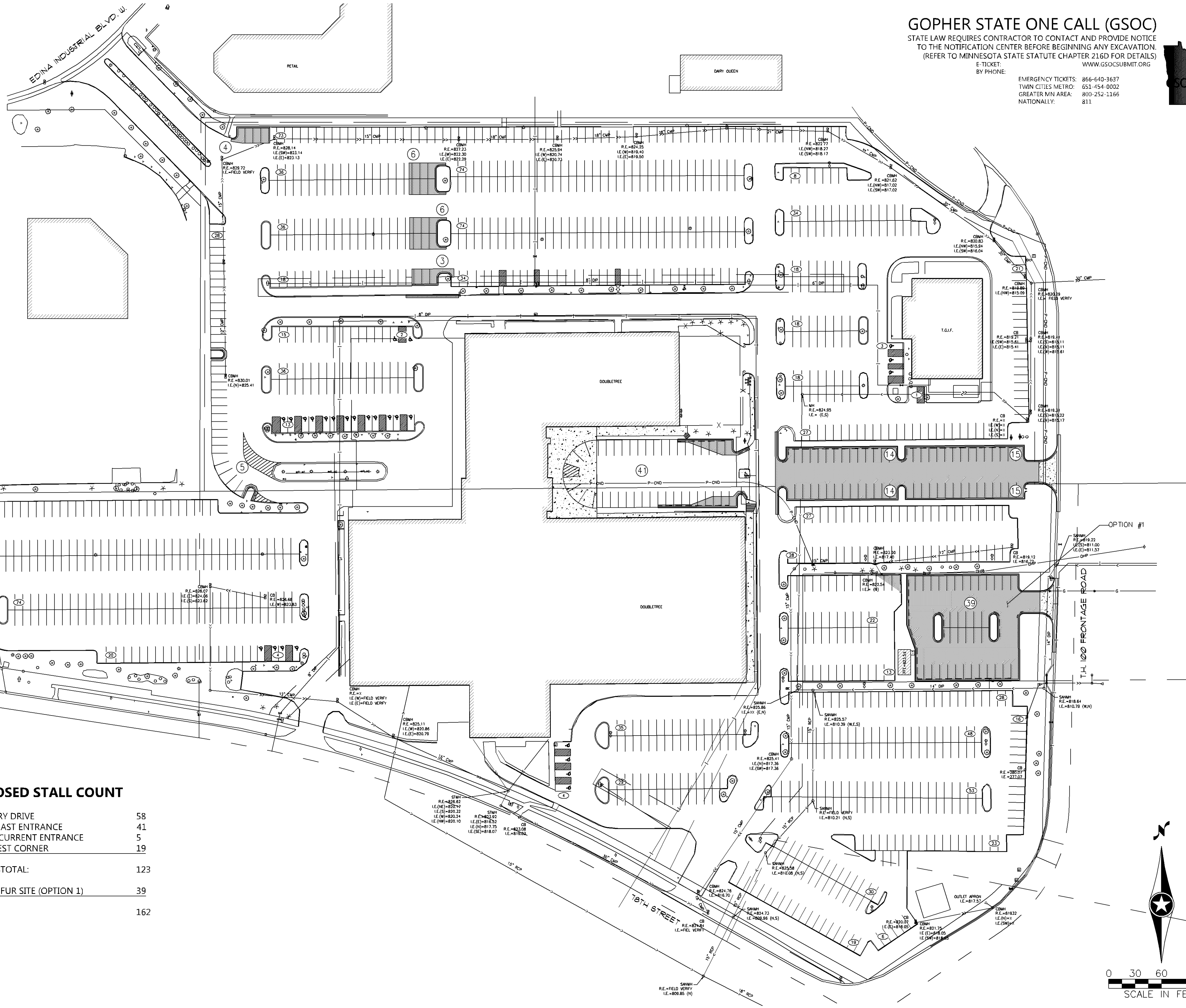
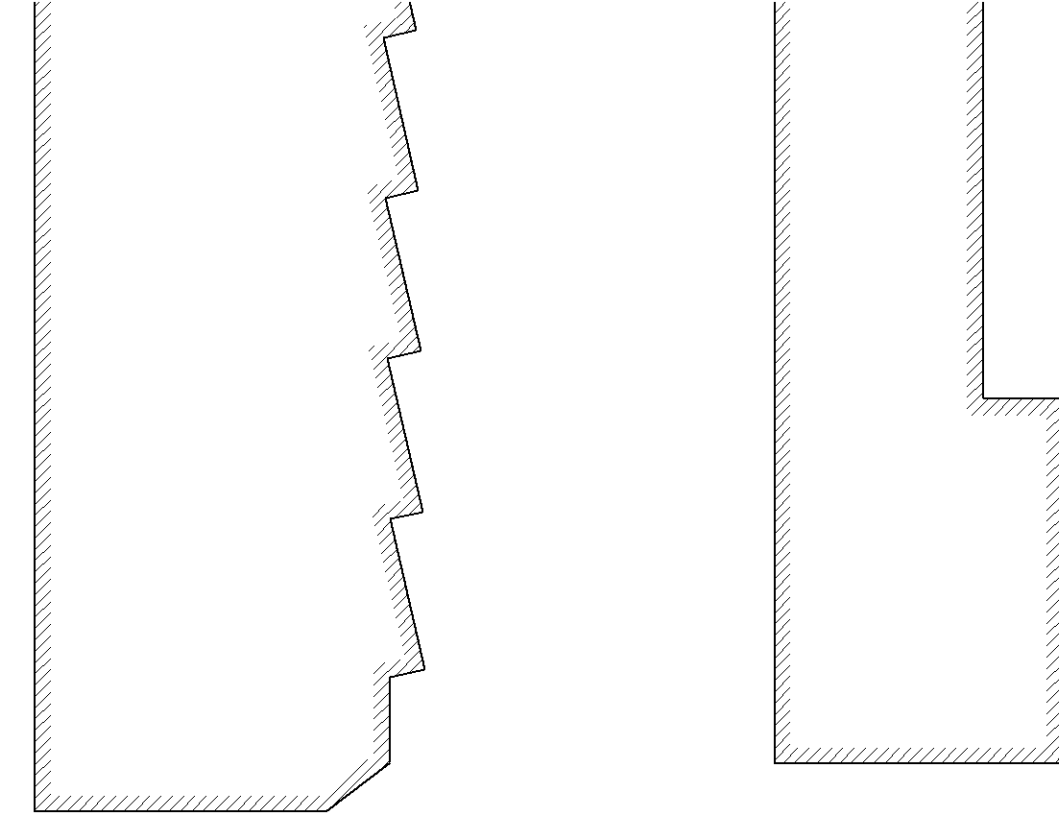
REQUIRED OFF-STREET PARKING: 1,471 STALLS  
(PER APRIL 16, 1984 CITY COUNCIL APPROVAL)

ADA PARKING REQUIRED: 25 STALLS  
(20/1,000 STALLS PLUS 1 FOR EACH 100 OVER 1,000)

OFF-STREET PARKING PROVIDED:

EXISTING PARKING: 1,309 STALLS (INCLUDING 26 ADA STALLS)  
PROPOSED PARKING: 162 STALLS

TOTAL 1,471 STALLS (INCLUDING 26 ADA STALLS)



**EXISTING STALL COUNT**

EXISTING STALLS (INCLUDES 26 ADA STALLS)	1,309
REQUIRED STALLS	1,471
ADDITIONAL STALLS REQUIRED:	162

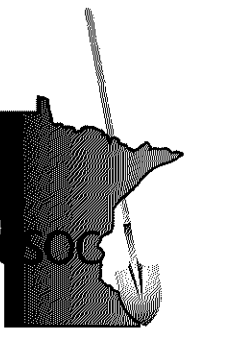
**PROPOSED STALL COUNT**

EAST ENTRY DRIVE	58
FORMER EAST ENTRANCE	41
WEST OF CURRENT ENTRANCE	5
NORTHWEST CORNER	19
SUBTOTAL:	123
ALASKAN FUR SITE (OPTION 1)	39
TOTAL:	162

**GOPHER STATE ONE CALL (GSOC)**

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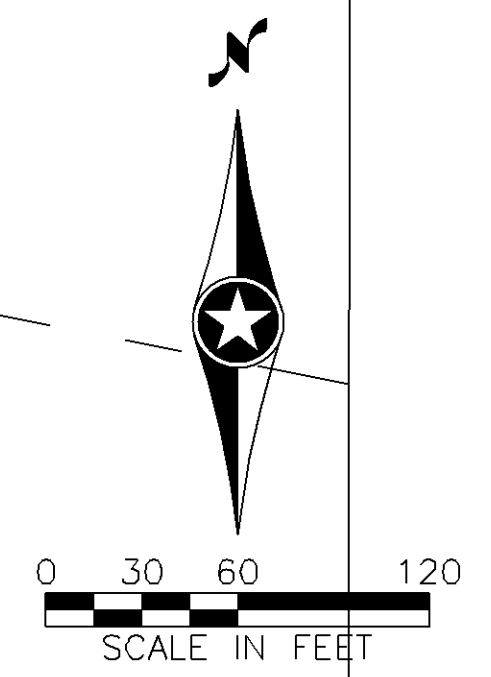
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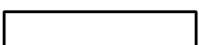
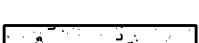
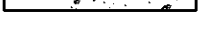
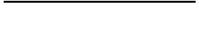
DOUBLETREE PARKING LOT RECONFIGURATION  
7800 NORMANDALE BLVD  
OVERALL SITE PLAN  
BLOOMINGTON, MINNESOTA

SHEET  
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**LEGEND**

-  BITUMINOUS PAVEMENT
-  CONCRETE PAVEMENT
-  CONCRETE CURB AND GUTTER
-  TIP-OUT GUTTER

**GOPHER STATE ONE CALL (GSOC)**

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG  
 BY PHONE: EMERGENCY TICKETS: 866-640-3637  
 TWIN CITIES METRO: 651-454-0007  
 GREATER MN AREA: 800-252-1166  
 NATIONALLY: 811



**GENERAL NOTES**

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12. EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

**SITE NOTES**

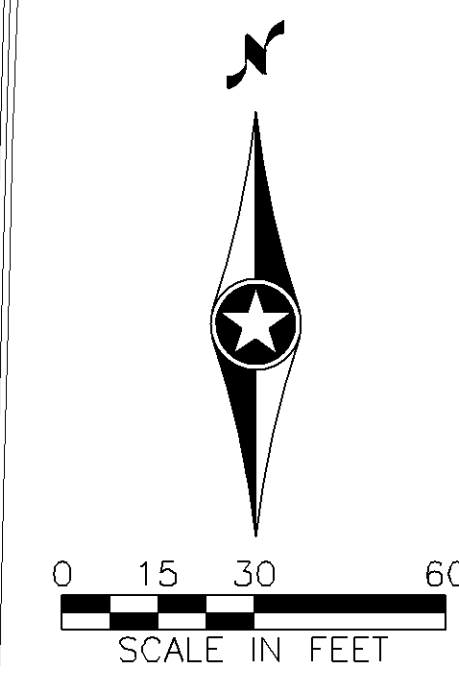
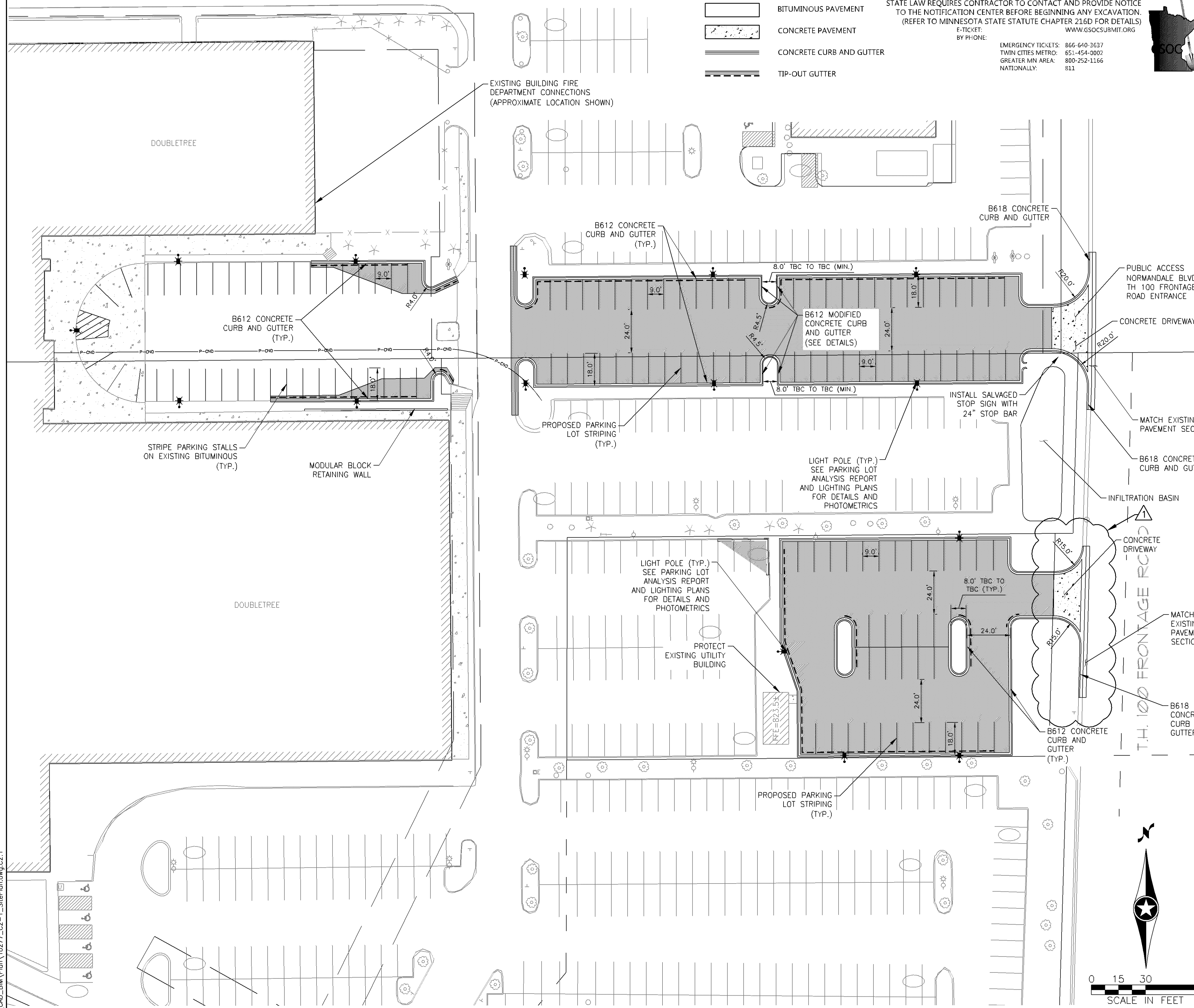
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**SIGNAGE AND STRIPING NOTES**


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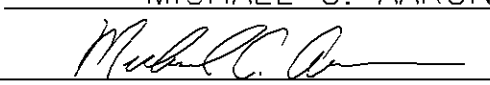
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NO	DATE	BY	CKD	APPR	CITY COMMENT REVISIONS
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS 

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.  
 Print Name: MICHAEL C. AARON  
  
 Date 5/15/2017 License # 25721

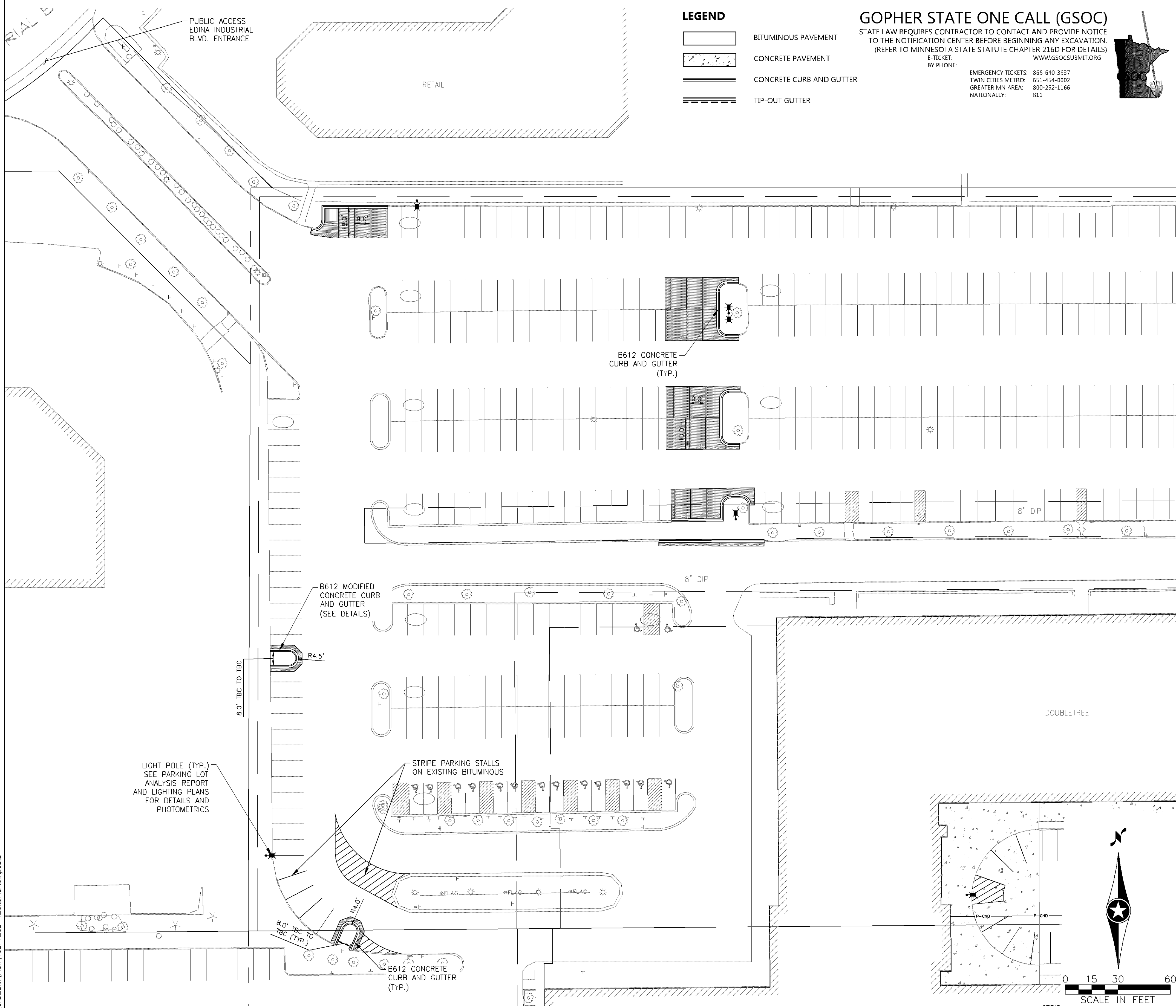
DRAWN BY: P. GALZKI  
 DESIGNED BY: P. GALZKI  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



**ENGINEERS  
PLANNERS  
DESIGNERS**

**DOUBLETREE PARKING LOT RECONFIGURATION**  
 7800 NORMANDALE BLVD  
 SITE PLAN (EAST)  
 BLOOMINGTON, MINNESOTA

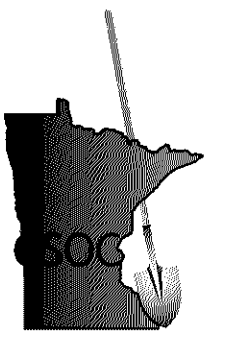
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**LEGEND**

	BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE CURB AND GUTTER
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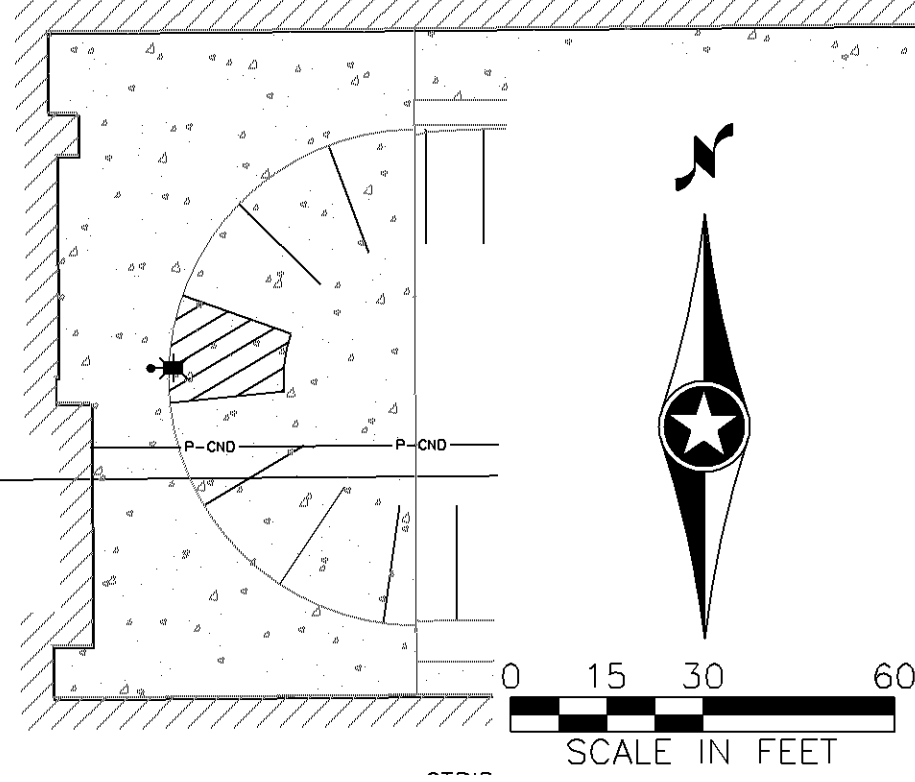
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- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.



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NO	DATE	BY	CKD	APPR

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.  
 Print Name: MICHAEL C. AARON  
  
 Date 5/15/2017 License # 25721

DRAWN BY  
P. GALZKI  
 DESIGNED BY  
P. GALZKI  
 CHECKED BY  
M. AARON  
 COMM. NO. 10277.00



**ENGINEERS  
PLANNERS  
DESIGNERS**

**DOUBLETREE PARKING LOT RECONFIGURATION**  
 7800 NORMANDALE BLVD  
 SITE PLAN (WEST)  
 BLOOMINGTON, MINNESOTA

SHEET  
C2.2

### GOPHER STATE ONE CALL (GSOC)

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 BY PHONE: EMERGENCY TICKETS: 866-640-3637  
 TWIN CITIES METRO: 651-454-0007  
 GREATER MN AREA: 800-252-1166  
 NATIONALLY: 811



#### LEGEND

- SILT FENCE
- INLET PROTECTION

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#### GRADING, DRAINAGE & EROSION CONTROL NOTES

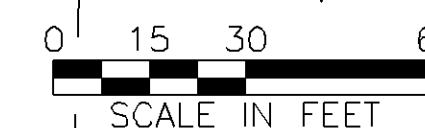
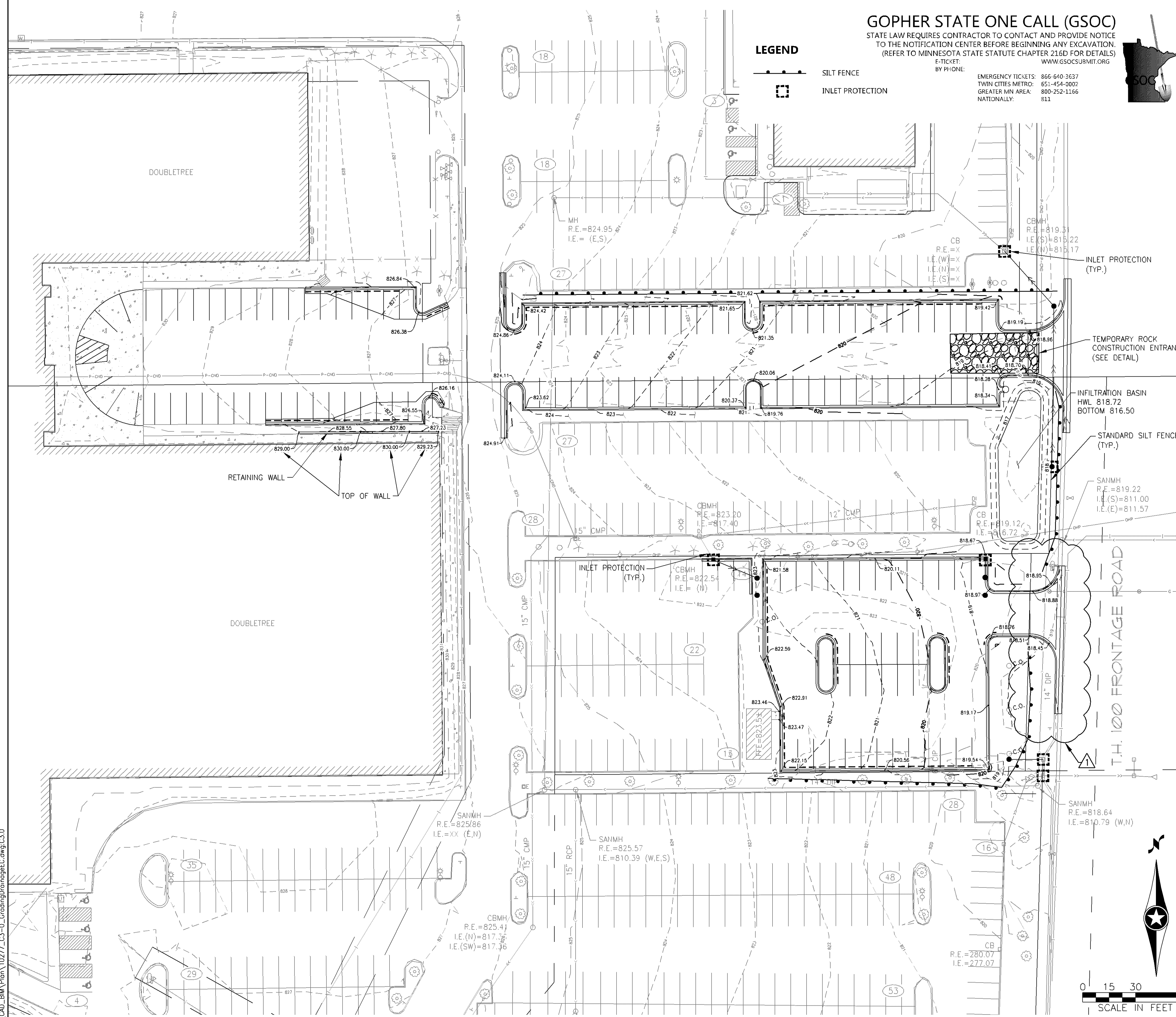
1. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMP ELEVATIONS.
3. 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.
4. REFER TO THE GEOTECHNICAL EVALUATION REPORT, DATED JUNE 9, 2015 AS PREPARED BY BRAUN INTERTEC CORPORATION FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS.
5. STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
6. DUST MUST BE ADEQUATELY CONTROLLED.
7. SEE SWPPP NOTES FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
8. SEE SITE PLAN FOR TIP-OUT GUTTER LOCATIONS.

#### NINE MILE CREEK WATERSHED DISTRICT (NMCWD) NOTES

1. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SURFACE OR VEGETATION ALTERATION AND BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED AS DETERMINED BY NMCWD.
2. IF SILT FENCE IS USED, THE BOTTOM FLAP MUST BE BURIED AND THE MAXIMUM ALLOWABLE SPACING BETWEEN POSTS IS 4-FOOT ON CENTER. ALL POSTS MUST BE EITHER 2-INCH X 2-INCH PINE, HARDWOOD, OR STEEL FENCE POSTS. IF HAY BALES ARE USED, ALL BALES MUST BE STAKED IN PLACE AND REINFORCED ON THE DOWNSTREAM SIDE WITH SNOW FENCE.
3. ALL AREAS ALTERED BECAUSE OF CONSTRUCTION MUST BE RESTORED WITH SEED AND DISCED MULCH, SOD, WOOD FIBER BLANKET, OR BE HARD SURFACED WITHIN TWO WEEKS AFTER COMPLETION OF LAND ALTERATION.
4. UPON FINAL STABILIZATION, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EROSION CONTROL MEASURES INSTALLED THROUGHOUT THE PROJECT SITE.
5. AT THE ENTRYWAY ONTO THE SITE, A ROCK FILTER DIKE BEING A MINIMUM OF TWO FEET IN HEIGHT AND HAVING MAXIMUM SIDE SLOPES OF 4:1 MUST BE CONSTRUCTED. THIS ROCK FILTER DIKE WILL ENABLE CONSTRUCTION TRAFFIC TO ENTER THE SITE AND ALSO PROVIDE AN EROSION CONTROL FACILITY.
6. IF DEWATERING IS REQUIRED AND SUMP PUMPS ARE USED, ALL PUMPED WATER MUST BE DISCHARGED THROUGH AN EROSION CONTROL FACILITY PRIOR TO LEAVING THE CONSTRUCTION SITE. PROPER ENERGY DISSIPATION MUST BE PROVIDED AT THE OUTLET OF THE PUMP SYSTEM.
7. THE CONTRACTOR SHALL NOTIFY THE NMCWD A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

#### CITY OF BLOOMINGTON NOTES

1. CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
2. PUBLIC WORKS PERMIT APPLICATION FOR UNDERGROUND WORK WITHIN THE RIGHT-OF-WAY IS REQUIRED PRIOR TO REMOVAL OR INSTALLATION OF SANITARY, WATER OR STORM WORK WITHIN THE PUBLIC RIGHT-OF-WAY. CONTACT UTILITIES AT 952-563-4568 FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
3. CONTRACTOR SHALL CONTACT UTILITIES DIVISION (952-563-8777) REGARDING PERMIT FOR STORM SEWER CONSTRUCTION.
4. RESTORE CITY STREET BY COMPLYING WITH THE CITY STREET IMPROVEMENT POLICY. CONTACT UTILITIES (952-563-4568) FOR THE REQUIREMENTS AND SHOW ON THIS PLAN.
5. ALL PARKING STALLS TO BE PAINTED WITH WHITE STRIPING.
6. ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING SHALL BE ON-SITE - NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED.
7. ALL PUBLIC SIDEWALKS SHALL NOT BE OBSTRUCTED.
8. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
9. CONTRACTOR SHALL SUBMIT TO CITY, A TRAFFIC CONTROL PLAN UTILIZING LAYOUT 9 OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL, LATEST VERSION, PRIOR TO ANY WORK IN NORMANDEALE BLVD./TH100 FRONTAGE ROAD.
10. LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES IN ALL CONSTRUCTION AND DEMOLITION AREAS.
11. ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
12. RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.



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NO	DATE	BY	CKD	APPR	CITY COMMENT REVISIONS
1	05/15/17	TAM	MCA	MCA	REVISIONS

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.  
 Print Name: **MICHAEL C. AARON**  
 Date: 5/15/2017 License # 25721

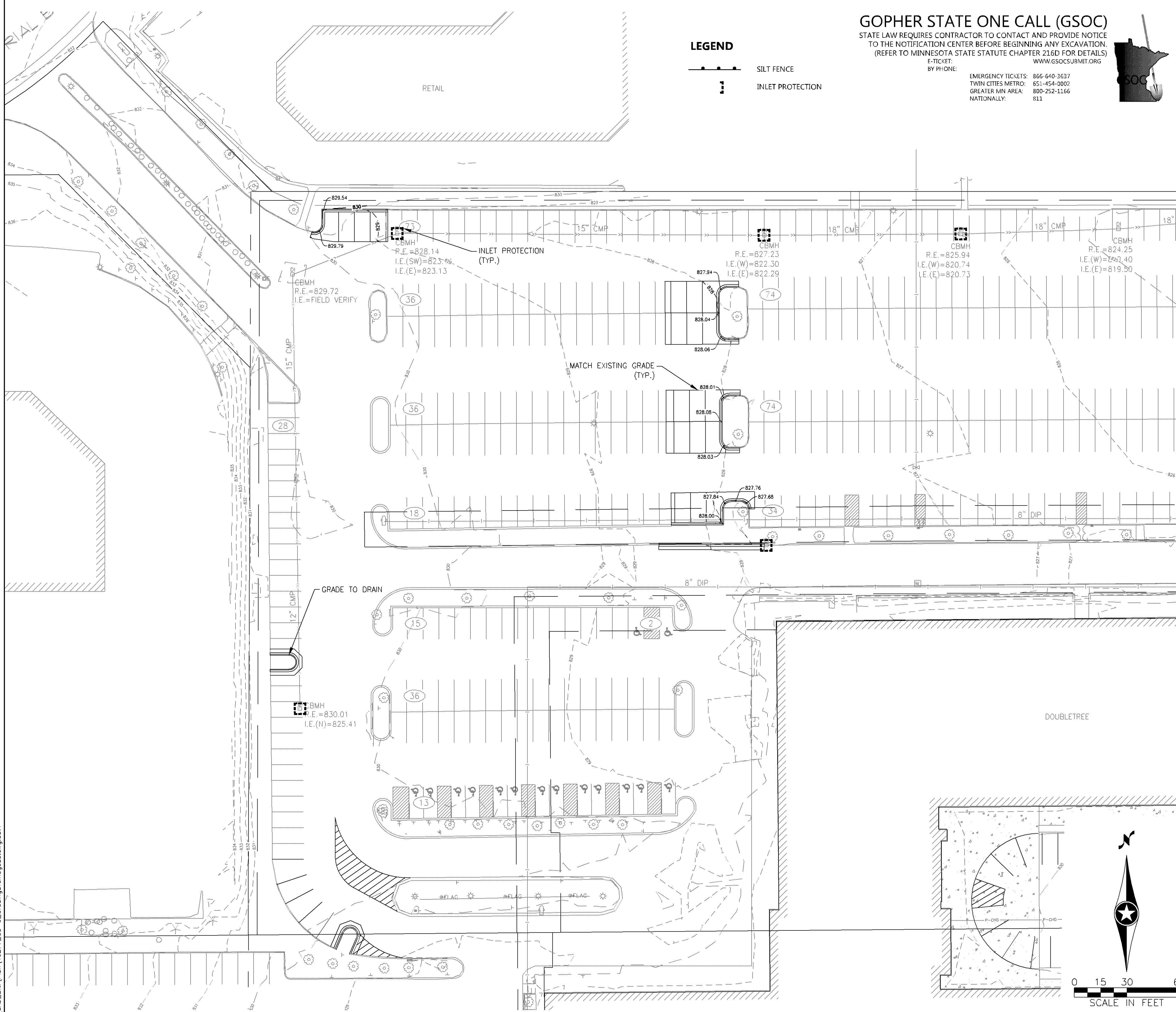
DRAWN BY: P. GALZKI  
 DESIGNED BY: P. GALZKI  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



**ENGINEERS  
 PLANNERS  
 DESIGNERS**

**DOUBLETREE PARKING LOT RECONFIGURATION**  
 7800 NORMANDEALE BLVD  
 GRADING, DRAINAGE AND  
 EROSION CONTROL PLAN (EAST)  
 BLOOMINGTON, MINNESOTA

SHEET  
 C3.0



### GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG  
 BY PHONE: EMERGENCY TICKETS: 866-640-2637  
 TWIN CITIES METRO: 651-454-0007  
 GREATER MN AREA: 800-252-1166  
 NATIONALLY: 811



### LEGEND

- SILT FENCE
- INLET PROTECTION

### GENERAL NOTES

1. MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL (GSOC)" PRIOR TO COMMENCING ANY GRADING, EXCAVATION OR UNDERGROUND WORK. THE ONE CALL SERVICE IS FREE OF CHARGE. SOME UNDERGROUND LINES ON PRIVATE PROPERTY ARE PRIVATELY OWNED AND MAY NOT BE MARKED BY A UTILITY. OTHER UNDERGROUND LINES BETWEEN A METER AND THE HOME OR BUSINESS, MAY BE CONSIDERED PRIVATELY OWNED. IN THESE CASES A CHARGE BY THE UTILITY MAY APPLY TO LOCATE AND MARK THOSE LINES.
2. THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR 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.
3. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
6. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
7. BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, STATE AND LOCAL REQUIREMENTS AND THE DETAILS SHOWN ON THE DETAIL SHEET(S) OF THE PROJECT PLANS.
8. ALL CONSTRUCTION PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ALL ENTRANCES AND CONNECTIONS TO CITY STREETS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND NOTIFICATIONS AS REQUIRED.
10. ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE ALL SIGNAGE, BARRICADES, FLASHERS AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
11. ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
12. EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

### GRADING, DRAINAGE & EROSION CONTROL NOTES

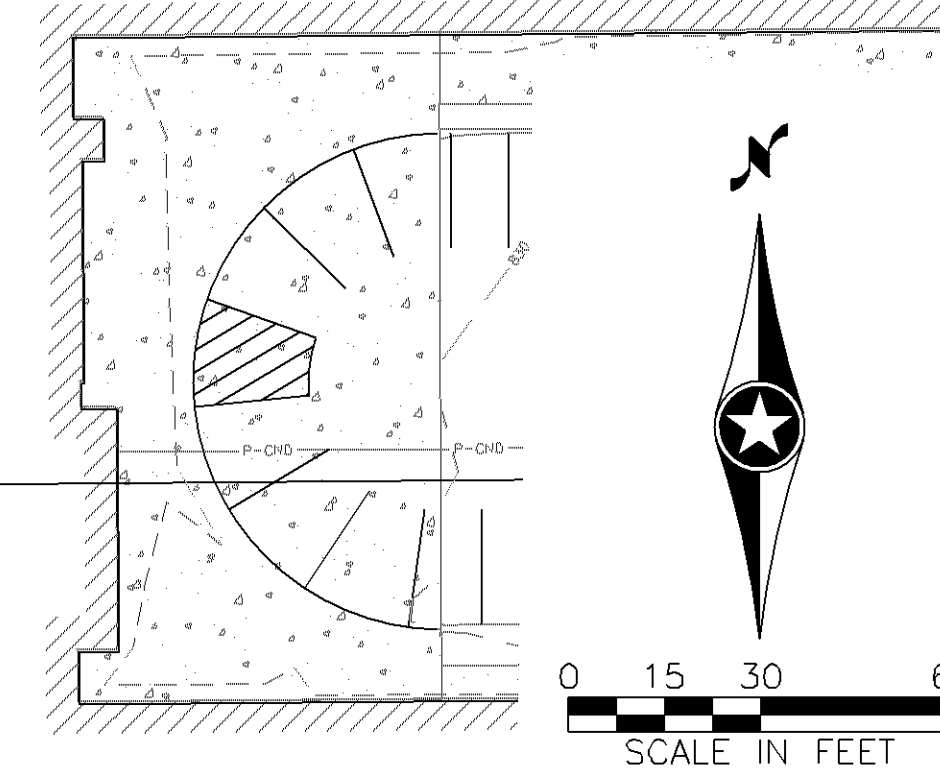
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11. ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
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NO	DATE	BY	CKD	APPR

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.  
 Print Name: **MICHAEL C. AARON**  
  
 Date 5/15/2017 License # 25721

DRAWN BY: P. GALZKI  
 DESIGNED BY: P. GALZKI  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



**ENGINEERS  
 PLANNERS  
 DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION  
 7800 NORMANDEALE BLVD  
 GRADING, DRAINAGE AND  
 EROSION CONTROL PLAN (WEST)  
 BLOOMINGTON, MINNESOTA

SHEET  
 C3.1

**PROJECT DESCRIPTION/LOCATION AND SCOPE:**

SEE COVER SHEET FOR LOCATION MAP, PROJECT NUMBERS AND DESCRIPTION OF PROJECT SCOPE.

PERMANENT STORMWATER BEST MANAGEMENT PRACTICES (BMPS) UTILIZED ON THE PROJECT INCLUDE A SURFACE INFILTRATION BASIN, AN UNDERGROUND INFILTRATION GALLERY, AND PROPRIETARY STORMWATER TREATMENT DEVICES.

**SPECIAL AND IMPAIRED WATERS:**

THE FOLLOWING SPECIAL/IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE.

NINE MILE CREEK IS IMPAIRED FOR CHLORIDES AND HAS AN APPROVED TMDL AND IMPLEMENTATION PLAN. THE TMDL HAS NO REQUIREMENTS FOR CONSTRUCTION, BUT ENCOURAGES THE USE OF PERMANENT INFILTRATION BMPS.

**ENVIRONMENTALLY SENSITIVE AREAS:**

ALL ENVIRONMENTALLY SENSITIVE AREAS, INCLUDING WETLANDS, ARE LABELED AS "ENVIRONMENTALLY SENSITIVE AREAS" IN THE PLANS.

**LONG TERM MAINTENANCE AND OPERATION:**

RUSSELL HUHNER, AGENT FOR BLOOMINGTON HOTEL INVESTORS, LLC D/B/A DOUBLETREE BY HILTON MINNEAPOLIS BLOOMINGTON SOUTH, IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER SYSTEMS INCLUDED IN THIS PROJECT.

PHONE: 952-893-8426

**SWPPP DEVELOPMENT AND MAINTENANCE:**

THIS SWPPP WAS PREPARED BY SAMUEL WESTLUND, CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS THROUGH MAY 31, 2017. COPIES OF THIS CERTIFICATION IS AVAILABLE UPON REQUEST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED EROSION AND SEDIMENT CONTROL SUPERVISOR WHO SHALL BE RESPONSIBLE FOR FINALIZING, CERTIFYING, AND MAINTAINING THE SWPPP DOCUMENT AND OVERSEEING THE IMPLEMENTATION OF THE SWPPP. ADDITIONAL REQUIREMENTS DETAILED IN LATER SECTIONS OF THIS SWPPP.

**SWPPP AMENDMENTS:**

THE SWPPP SHALL BE AMENDED WHEN:

- A. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASON HAVING A SIGNIFICANT EFFECT ON DISCHARGE OF POLLUTANTS.
- B. INSPECTIONS INDICATE THE SWPPP IS NOT EFFECTIVE.
- C. A WATER QUALITY STANDARD CHANGES AND THE MPCA DETERMINES THE SWPPP SHALL BE AMENDED TO COMPLY.

A DESCRIPTION OF ANY CHANGE TO THE SWPPP, ALONG WITH THE DATE AND NAME OF THE REVISION SHALL BE RECORDED AND INCLUDED WITH THE SWPPP AND RETAINED ON SITE. THE OWNER SHALL RETAIN ALL RECORDS AFTER COMPLETION OF THE PROJECT.

**SITE PLANS:**

THE CONTRACTOR SHALL PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, DEWATERING AREAS, AREAS IDENTIFIED AS "SITE MANAGEMENT PLAN AREAS" AND AS REQUESTED BY THE PROJECT ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS IN WRITING AND ALLOW A MINIMUM OF 7 DAYS FOR REVIEW BY THE PROJECT ENGINEER. WORK SHALL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE PROJECT ENGINEER.

**ENVIRONMENTAL REVIEW:**

THE REQUIREMENTS OF NINE MILE CREEK WATERSHED DISTRICT ARE SATISFIED BY THE PERMANENT BMPS LISTED ABOVE AND THE TEMPORARY MEASURES INCLUDED. THERE ARE NO ADDITIONAL STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL OR AGENCY REVIEW.

**DRINKING WATER SOURCE MANAGEMENT AREA (DWSMA) AND KARST REGIONS:**

THE PROJECT IS LOCATED IN A DWSMA, BUT NOT IN AN ACTIVE KARST AREA.

**SOIL TYPES:**

SOIL TYPES FOUND ON THIS PROJECT ARE VARIABLE. SOIL TYPES ENCOUNTERED INCLUDE FILL (SAND WITH GRAVEL, SOME CLAY LENSES), POORLY GRADED SAND, CLAY, AND PEAT.

**LAND FEATURE CHANGES:**

TOTAL DISTURBED AREA: 2.05 ACRES

TOTAL EXISTING IMPERVIOUS SURFACE AREA: 1.59 ACRES

TOTAL PROPOSED IMPERVIOUS SURFACE AREA: 1.70 ACRES

TOTAL PROPOSED NET CHANGE IN IMPERVIOUS SURFACE AREA: 0.11 ACRES

**PROJECT CONTACTS:**

RUSSEL HUHNER, BLOOMINGTON HOTEL INVESTORS: 952-893-8426

SAM WESTLUND, SRF CONSULTING GROUP, INC.: 763-475-0010

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451  
800-422-0798

**LOCATION OF SWPPP REQUIREMENTS:**

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, MNDOT SPEC BOOK (2016 EDITION), CONSTRUCTION DIARIES OR ON FILE WITH THE PROJECT OWNER. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET. IN ADDITION, THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT SHOULD BE REVIEWED AND CONSULTED BY THE EROSION AND SEDIMENT CONTROL SUPERVISOR.

**SITE MAPS AND DESIGN CALCULATIONS:**

IN ADDITION TO WHAT IS LOCATED WITHIN THIS PLAN, SITE MAPS AND BMP DESIGN CALCULATIONS ARE AVAILABLE UPON REQUEST. PLEASE CONTACT THE PROJECT ENGINEER WITH ANY QUESTIONS REGARDING THE SITE MAPS OR CALCULATIONS.

**GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY**

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION STORMWATER PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA (FORM IS AVAILABLE FROM MPCA WEBSITE). THE CONTRACTOR SHALL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP SHALL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.
2. THE CONTRACTOR SHALL PREPARE A WRITTEN, NOT ORAL, WEEKLY SCHEDULE OF PROPOSED EROSION CONTROL ACTIVITIES FOR THE PROJECT ENGINEER'S APPROVAL AS PER MNDOT SPEC. 1717.2C.
3. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
4. THE CONTRACTOR SHALL PLACE STABILIZED CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES AND IN COMPLIANCE WITH PART IV.C. OF THE NPDES PERMIT. STABILIZED CONSTRUCTION EXITS SHALL BE SUFFICIENTLY SIZED AND MAINTAINED TO PREVENT TRACK OUT. STABILIZED CONSTRUCTION EXITS SHALL BE INCIDENTAL.
5. ALL TOPSOIL IN DISTURBED AREAS SHALL BE REMOVED AND STOCKPILED FOR LATER PLACEMENT. AVOID COMPACTION AS MUCH AS IS FEASIBLE IN ALL AREAS WHERE COMPACTION IS NOT REQUIRED FOR CONSTRUCTION. COMPACTION SHALL BE AVOIDED IN ALL AREAS DESIGNATED FOR INFILTRATION.

6. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION PRIOR TO PROCEEDING. PRESERVE ALL BUFFERS (IF ANY) SHOWN ON THE PLANS.

7. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS AND ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER POSSIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION AND NUISANCE CONDITIONS.

8. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.

9. TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED. THEREFORE, IT IS POSSIBLE THAT A PERMIT FOR THE TEMPORARY APPROPRIATION OF WATERS OF THE STATE FROM MNDNR SHALL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS PERMIT (FORMS ARE AVAILABLE FROM THE MNDNR WEBSITE). ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SITE MANAGEMENT PLANS TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK ACCORDING TO SPEC 1717.2D. TEMPORARY DEWATERING SHALL BE INCIDENTAL.

10. BASIN DRAINING ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS WHENEVER POSSIBLE. IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN THE WATER SHALL BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS.

11. IT IS NOT ANTICIPATED THAT POLYMERS, FLOCCULANTS OR OTHER SEDIMENTATION TREATMENT CHEMICALS SHALL BE USED. HOWEVER, IF THE USE OF SUCH CHEMICALS BECOMES NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS, IT SHALL BE IN ACCORDANCE WITH PART IV.C.10. OF THE CONSTRUCTION GENERAL PERMIT.

**POLLUTION PREVENTION NOTES**

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS REGARDING POLLUTION PREVENTION MANAGEMENT DURING CONSTRUCTION, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING THE FOLLOWING (ITEMS LISTED ARE INCIDENTAL):

- A. WASHOUT AREAS FOR CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS FOR USE BY ALL SUBCONTRACTORS AND MATERIAL TESTING PERSONNEL. LOCATION OF WASHOUT AREAS SHALL BE IDENTIFIED BY SIGNAGE AND SHALL BE AT LEAST 200 FT FROM SITE MANAGEMENT PLAN REQUIREMENT AREAS (IF APPLICABLE) OR ENVIRONMENTALLY SENSITIVE AREAS, AND UTILIZE A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER THAT PREVENTS RUNOFF ONTO ADJACENT SOILS. AN ENGINEERED COLLECTION SYSTEM CAN ALSO BE USED IF IT IS APPROVED BY THE PROJECT ENGINEER.
- B. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR A CHEMICAL STORAGE AREA AND SHALL DESIGNATE AN AREA FOR FUELING AND MINOR MAINTENANCE OF CONSTRUCTION VEHICLES (INCLUDING WASHING) WITH MEANS TO CAPTURE ANY FUEL SPILLS. RUNOFF SHALL BE CONTAINED IN A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL AND ALL WASTE GENERATED SHALL BE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.
- C. SOLID WASTE COLLECTION AND REMOVAL.
- D. SECONDARY CONTAINMENT FOR STORAGE OF HAZARDOUS MATERIALS.
- E. SECURED HAZARDOUS WASTE STORAGE CONTAINERS.
- F. CHEMICAL SPILL KITS (SHALL BE PROVIDED AT EACH LOCATION WHERE CHEMICALS ARE USED OR STORED AND ANY LOCATION WHERE VEHICLES ARE FUELED OR MAINTAINED).
- G. PORTABLE RESTROOM FACILITIES THAT ARE ANCHORED TO PREVENT TIPPING.

2. CHEMICALS SHALL BE KEPT IN A SECURE STORAGE AREA WITH RESTRICTED ACCESS IN SEALED CONTAINERS WHEN NOT IN USE. RETURN ALL CHEMICALS TO THE DESIGNATED STORAGE AREA BY THE END OF THE DAY UNLESS INFEASIBLE. CHEMICAL STORAGE CONTAINERS SHALL HAVE SECONDARY CONTAINMENT WHEN BEING USED OR STORED ON THE PROJECT SITE, AND PRODUCTS OR CHEMICALS THAT MAY LEACH POLLUTANTS SHALL BE UNDER COVER (PLASTIC SHEETING OR TEMPORARY ROOF). CHEMICAL SPILLS OF ANY KIND (OIL, FUEL, FERTILIZER, ETC.) SHALL BE CLEANED UP AND REMOVED FROM THE SITE IMMEDIATELY. THE CONTRACTOR SHALL HAVE A SPILL KIT ON SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND FOLLOWING A WRITTEN DISPOSAL PLAN FOR ALL HAZARDOUS WASTE MATERIALS. THE PLAN SHALL INCLUDE HOW THE MATERIAL SHALL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO WORK ON SITE. LEAKS, SPILLS, OR OTHER RELEASES SHALL BE RESPONDED TO IN ACCORDANCE WITH MPCA SPILL CONTAINMENT AND REMEDIAL ACTION PROCEDURES.

4. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS, AND ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

5. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAW CUT SLURRY, PLANING WASTE AND OTHER CONCRETE WASTES FROM LEAVING PUBLIC RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS OR ENTERING STORMWATER CONVEYANCE SYSTEM INCLUDING INLETS AND CURB FLOW LINES. ONSITE RELEASE OF CONCRETE SLURRY IS PERMISSIBLE IF MINNESOTA POLLUTION CONTROL GUIDANCE FOR ROAD CONSTRUCTION CONCRETE SLURRY AND THE REQUIREMENTS OF THE SPECIAL PROVISIONS ARE FOLLOWED.

**ESTIMATED QUANTITIES**

ITEM DESCRIPTION	UNIT	QUANTITY
TEMPORARY ROCK CONSTRUCTION ENTRANCE	EA	1
STANDARD SILT FENCE	LF	675
INLET PROTECTION	EA	10
EROSION CONTROL BLANKET	SY	60

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NO	DATE	BY	CKD	APPR	CITY COMMENT REVISIONS
1	05/15/17	TAM	MCA	MCA	REVISIONS

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.  
Print Name: MICHAEL C. AARON  
  
Date 5/15/2017 License # 25721

DRAWN BY  
P. GALZKI  
DESIGNED BY  
P. GALZKI  
CHECKED BY  
M. AARON  
COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION  
7800 NORMANDELE BLVD  
SWPPP NOTES 1 OF 2  
BLOOMINGTON, MINNESOTA

SHEET  
C3.2

EROSION CONTROL SUPERVISOR, INSPECTIONS AND MAINTENANCE NOTES

1. IN ACCORDANCE WITH SPEC. 2573.3 A1, THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs. PROVIDE PROOF OF CERTIFICATION (UNIVERSITY OF MINNESOTA - CONSTRUCTION SITE MANAGEMENT) AT THE PRECONSTRUCTION MEETING. WORK SHALL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED. THE EROSION CONTROL SUPERVISOR IS INCIDENTAL.

2. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

3. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR COMPLYING WITH ALL THE INSPECTION AND MAINTENANCE REQUIREMENTS STATED IN THE NPDES PERMIT PART IV. E. INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (IN NO CASE SHALL THE TIME BETWEEN INSPECTIONS EXCEED 7 DAYS). RAINFALL AMOUNTS SHALL BE OBTAINED USING A PROPERLY MAINTAINED RAIN GAUGE ONSITE OR BY A WEATHER STATION THAT IS WITHIN ONE MILE. THE EROSION CONTROL SUPERVISOR SHALL THOROUGHLY INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO ENSURE INTEGRITY AND EFFECTIVENESS OF EACH BMP.

4. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND SWPPP DESIGNER IN A FORMAT APPROVED BY THE ENGINEER. INSPECTION RECORDS SHALL INCLUDE:

- A. DATE AND TIME OF INSPECTIONS;
- B. NAME OF PERSONS CONDUCTING INSPECTIONS;
- C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
- D. CORRECTIVE ACTIONS TAKEN INCLUDING DATES, TIMES, AND THE PARTY COMPLETING MAINTENANCE ACTIVITIES;
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS;
- F. LOCATION, DESCRIPTION AND PHOTO OF ANY DISCHARGES OFF THE PROJECT SITE.
- G. DOCUMENTS AND CHANGES MADE TO THE SWPPP.

5. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS (INSPECTIONS MAY BE REDUCED UNDER CERTAIN CONDITIONS AS COVER IS ESTABLISHED AND CONDITIONS CHANGE AS DESCRIBED IN PART IV. E OF THE NPDES PERMIT):

- A. SILT FENCE SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE SILT FENCE. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.
- B. INLET PROTECTION DEVICES SHOULD BE REPAIRED WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. TEMPORARY SEDIMENT BASINS, IF REQUIRED, SHALL HAVE THE SEDIMENT REMOVED ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME WITHIN 72 HOURS OF DISCOVERY.
- D. REMOVE ANY SEDIMENT DEPOSITED IN SURFACE WATERS. SEDIMENT SHALL BE REMOVED AND ANY AREA DISTURBED BY THE REMOVAL RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. A SITE MANAGEMENT PLAN IS REQUIRED FOR WORK IN ANY SURFACE WATER AND APPROPRIATE AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
- E. TRACKED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OF TRACKING ONTO PAVED SURFACES.

F. ALL OTHER NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITHIN 24 HOURS OF DISCOVERY.

G. REINSTALL AS QUICKLY AS POSSIBLE ANY BMP REMOVED TO ACCOMMODATE SHORT TERM ACTIVITIES.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MPCA IN ACCORDANCE WITH PART II.C OF THE CONSTRUCTION GENERAL PERMIT. SEDIMENT REMOVAL AND MAINTENANCE OF BMPs IS INCIDENTAL.

6. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS A TEMPORARY SEDIMENT BASIN OR SEDIMENT TRAP TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

STABILIZATION AND SEDIMENT CONTROL NOTES

1. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL THE POTENTIAL FOR EROSION HAS BEEN ELIMINATED. IF SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE), ADDITIONAL UPGRADIENT OR REDUNDANT BMPs SHALL BE PLACED.

2. SEDIMENT CONTROL DEVICES SHALL BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. SEDIMENT CONTROL DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

A. PERIMETER CONTROL SHALL BE LOCATED ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. THE BMP SHALL BE J-HOOKED AT A MAXIMUM OF 100 FOOT INTERVALS AND EACH SECTION SHALL CONTAIN NO MORE THAN 1/4 ACRE OF DRAINAGE AREA.

B. SEDIMENT DAMAGE FROM STOCKPILES SHALL BE MINIMIZED BY PLACING A ROW OF SUPER DUTY SILT FENCE A MINIMUM 5 FEET FROM THE TOE. IF THERE IS NOT ADEQUATE PROJECT AREA TO PLACE THE SILT FENCE MORE THAN 5 FEET FROM THE TOE OF THE SLOPE, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE TO THE PROJECT ENGINEER FOR APPROVAL.

C. DITCH CHECKS (IF REQUIRED) SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.

1. TEMPORARY DITCH CHECKS (IF REQUIRED) SHALL CONSIST OF USING ROCK DITCH CHECKS, BIOLOGS AND ROCK WEEPERS IN FRONT OF CULVERT INLETS. IN LIEU OF REMOVING TEMPORARY DITCH CHECKS, THE ROCK MAY BE PUSHED INTO THE GROUND.

2. FILTER LOGS (IF REQUIRED) SHALL BE PLACED DURING PERMANENT TURF ESTABLISHMENT AT THE INTERVALS IDENTIFIED IN THE PLAN.

D. FLOTATION SILT CURTAIN MAY BE USED AS PERIMETER CONTROL BUT ONLY FOR WORK ON THE SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE CONSTRUCTION IN THE AREA IS COMPLETE, AN UPLAND BMP SHALL BE PLACED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

E. TEMPORARY SEDIMENT BASINS ARE REQUIRED WHERE TEN OR MORE ACRES DRAIN TO A COMMON LOCATION (FIVE IF DRAINING TO A SPECIAL OR IMPAIRED WATER).

1. BASIN VOLUME SHALL BE A MINIMUM OF 1,800 CUBIC FEET PER ACRE OF DRAINAGE AREA TO THE BASIN (3,600 CUBIC FEET PER ACRE IF NO CALCULATIONS ARE PERFORMED).

2. OUTLET SHALL ALLOW COMPLETE DRAWDOWN FOR MAINTENANCE AND A STABILIZED OVERFLOW. THE OUTLET SHALL WITHDRAW WATER FROM THE SURFACE EXCEPT DURING FROZEN CONDITIONS.

3. IF A TEMPORARY BASIN OF THE REQUIRED SIZE IS INFEASIBLE THE REASONS SHALL BE DOCUMENTED IN THE SWPPP AND ALTERNATE BMPs SHALL BE PLACED.

3.PRESERVE A NATURAL BUFFER OF AT LEAST 50 FEET (100 FEET IF WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER) BETWEEN DISTURBED AREAS AND FLOWS TO A SURFACE WATER (NOT REQUIRED AT DITCHES OR STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS OR SEDIMENT BASINS). IF A BUFFER IS INFEASIBLE, PROVIDE AS LARGE A BUFFER AS POSSIBLE AND REDUNDANT SEDIMENT CONTROLS.

4. STORM SEWER INLETS SHALL BE PROTECTED AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS (THIS BMP SHALL BE ACCEPTED ONLY FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS). INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES SHALL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE KEPT IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES IT SHALL BE REPLACED WITH A SUITABLE ALTERNATIVE AT NO COST TO THE OWNER.

5. PAVEMENT SURFACES SHALL BE SWEEPED WITHIN 24 HOURS OF DISCOVERY OF SEDIMENT OR TRACKING ONTO PAVEMENT THAT DRAINS TO CURB, INLETS, DITCHES OR PONDS. PAVEMENT SHALL BE LIGHTLY WETTED PRIOR TO SWEEPING. THIS WORK IS INCIDENTAL.

6. OUTLETS INTO SURFACE WATERS SHALL BE STABILIZED WITH ENERGY DISSIPATION WITHIN 24 HOURS OF BEING CONSTRUCTED.

7. DITCHES AND EXPOSED SOILS SHALL BE KEPT IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES AND BLANKETS.

8. INITIATE STABILIZATION OF ALL EXPOSED SOIL AND STOCKPILE AREAS IMMEDIATELY AFTER CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN NO MORE THAN 7 DAYS. ALL EXPOSED SOIL WITHIN 200 LINEAL FEET OF AND DRAINING TO A PUBLIC WATER WITH "WORK IN WATER RESTRICTIONS" AND DURING SPECIFIED FISH SPAWNING TIME FRAMES, SHALL BE STABILIZED WITHIN 24 HOURS. IN MANY INSTANCES, THIS SHALL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING ROUGH GRADING. RAPID STABILIZATION METHOD 3 SHALL BE USED TO PROVIDE TEMPORARY COVER IN THESE AREAS AS APPROPRIATE. SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON. SEE PERMIT SECTION IV.B. FOR EXCEPTIONS.

9. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, SHALL BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE OR POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION SHALL OCCUR WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, EXISTING GUTTER, STORM SEWER INLET, DRAINAGE DITCH, OR OTHER STORMWATER CONVEYANCE SYSTEM ACCORDING TO SPEC 1717.2. RAPID STABILIZATION METHOD 4 SHALL BE USED TO STABILIZE THESE AREAS (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON). THE REMAINDER OF THE DITCH SHALL BE STABILIZED WITHIN 14 DAYS (7 DAYS IF IT IS WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER)OF CONNECTING TO THE SURFACE WATER. PERMANENT EROSION CONTROL BLANKET OR RAPID STABILIZATION METHOD 4 (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON) SHALL BE USED TO STABILIZE THESE AREAS. DISC ANCHORED MULCH AND HYDRAULIC SOIL STABILIZERS ARE NOT ALLOWED TO BE USED FOR DITCH STABILIZATION.

10. ALL EXPOSED SOIL AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED SHALL BE SNOW MULCHED, SEEDED, OR BLANKETED WITHIN THE TIME FRAMES LISTED IN THE MPCAS GENERAL NPDES CONSTRUCTION STORMWATER PERMIT.

11. ALL TOPSOIL BERMS SHALL BE STABILIZED AS FOLLOWS:A.BETWEEN APRIL 1 - AUGUST 31, SEED WITH SEED MIXTURE 21-111B.BETWEEN SEPTEMBER 1 AND MARCH 31, SEED WITH SEED MIXTURE 21-112 AND TOP WITH RAPID STABILIZATION 2.

12. TILLING FOR BEDS OR TREE HOLES SHALL BE PLANTED AND MULCHED WITH WOODCHIP WITHIN 7 DAYS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED. FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS SHALL BE LEFT TO PHOTO DEGRADE.

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NO	DATE	BY	CKD	APPR	CITY COMMENT REVISIONS
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS

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.  
Print Name: MICHAEL C. AARON  
  
Date 5/15/2017 License # 25721

DRAWN BY  
P. GALZKI  
DESIGNED BY  
P. GALZKI  
CHECKED BY  
M. AARON  
COMM. NO. 10277.00



**ENGINEERS  
PLANNERS  
DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION  
7800 NORMANDELE BLVD  
SWPPP NOTES 2 OF 2  
BLOOMINGTON, MINNESOTA

SHEET  
  
C3.3

### GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)  
 E-TICKET: WWW.GSOCSUBMIT.ORG  
 BY PHONE: EMERGENCY TICKETS: 866-640-3637  
 TWIN CITIES METRO: 651-454-0007  
 GREATER MN AREA: 800-252-1166  
 NATIONALLY: 811



### GENERAL NOTES

- MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL (GSOC)" PRIOR TO COMMENCING ANY GRADING, EXCAVATION OR UNDERGROUND WORK. THE ONE CALL SERVICE IS FREE OF CHARGE. SOME UNDERGROUND LINES ON PRIVATE PROPERTY ARE PRIVATELY OWNED AND MAY NOT BE MARKED BY A UTILITY. OTHER UNDERGROUND LINES, BETWEEN A METER AND THE HOME OR BUSINESS, MAY BE CONSIDERED PRIVATELY-OWNED. IN THESE CASES A CHARGE BY THE UTILITY MAY APPLY TO LOCATE AND MARK THOSE LINES.
- THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR 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.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, STATE AND LOCAL REQUIREMENTS AND THE DETAILS SHOWN ON THE DETAIL SHEET(S) OF THE PROJECT PLANS.
- ALL CONSTRUCTION PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ENTRANCES AND CONNECTIONS TO CITY STREETS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND NOTIFICATIONS AS REQUIRED.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE ALL SIGNAGE, BARRICADES, FLASHERS AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
- ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

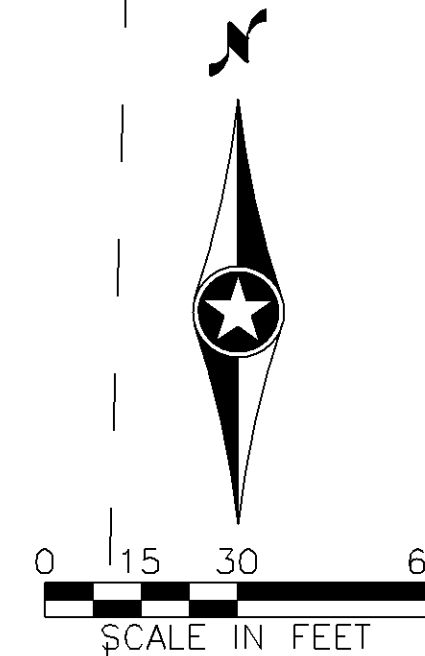
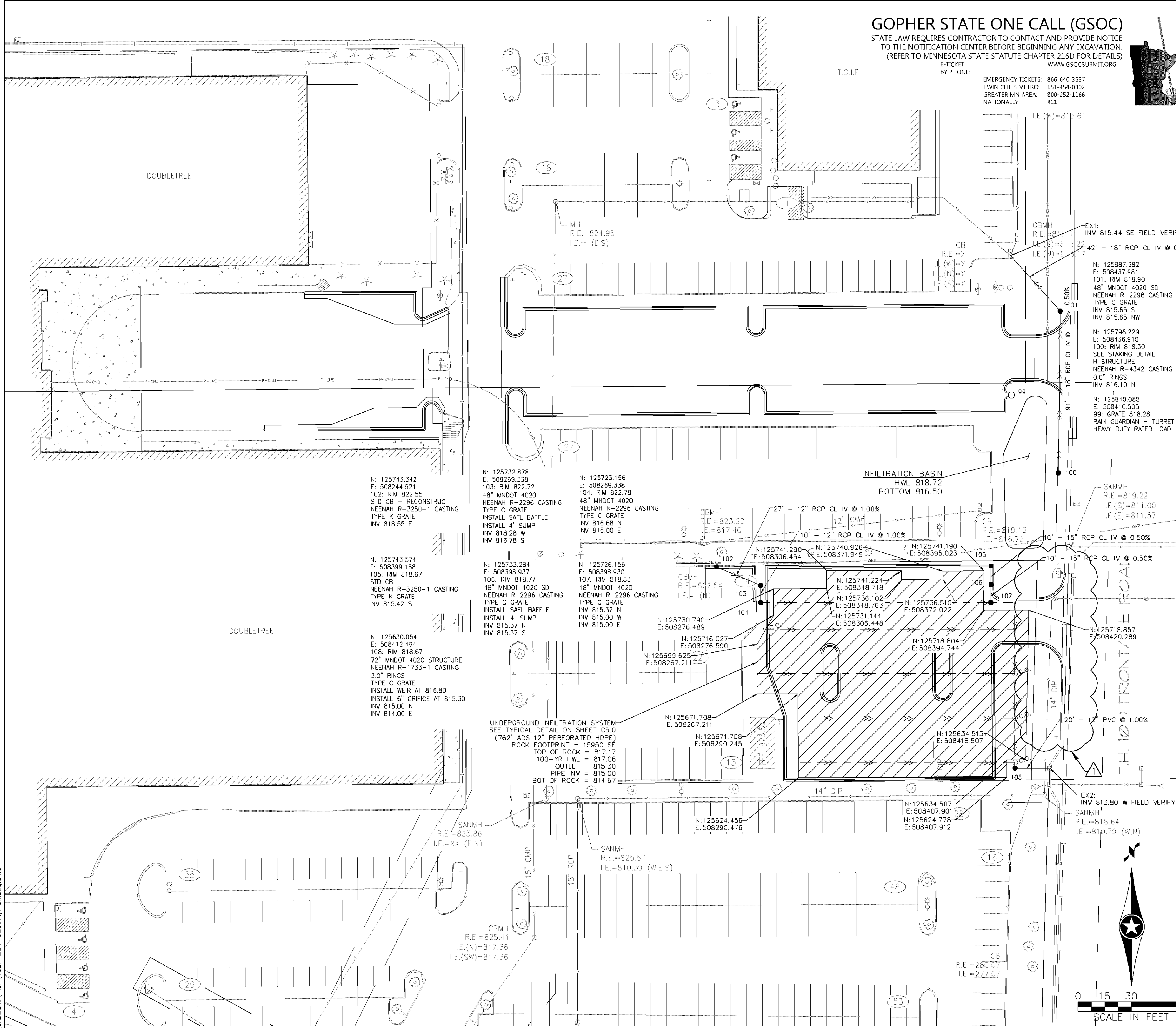
### UTILITY NOTES

- ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS/THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT, AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 2013 EDITION.
- ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION AND THE GEOTECHNICAL REPORT.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC UTILITIES.
- ALL STORM SEWER, SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.
- A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
- PROPOSED PIPE MATERIALS:  

STORM SEWER	DUAL WALL HDPE	12" TO 24" DIAMETER
RCP	CL IV	12" TO 18" DIAMETER
- ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4715.0700). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.
- HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES, PART 4715.0540:  
 8.1. PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.  
 8.2. PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.  
 8.3. ALL FITTINGS MUST COMPLY WITH ASTM D3212.  
 8.4. WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.

### CITY OF BLOOMINGTON NOTES

- CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- PUBLIC WORKS PERMIT APPLICATION FOR UNDERGROUND WORK WITHIN THE RIGHT-OF-WAY IS REQUIRED PRIOR TO REMOVAL OR INSTALLATION OF SANITARY, WATER OR STORM WORK WITHIN THE PUBLIC RIGHT-OF-WAY. CONTACT UTILITIES AT 952-563-4568 FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- CONTRACTOR SHALL CONTACT UTILITIES DIVISION (952-563-8777) REGARDING PERMIT FOR STORM SEWER CONSTRUCTION.
- RESTORE CITY STREET BY COMPLYING WITH THE CITY STREET IMPROVEMENT POLICY; CONTACT UTILITIES (952-563-4568) FOR THE REQUIREMENTS AND SHOW ON THIS PLAN.
- ALL PARKING STALLS TO BE PAINTED WITH WHITE STRIPING.
- ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING SHALL BE ON-SITE - NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED.
- ALL PUBLIC SIDEWALKS SHALL NOT BE OBSTRUCTED.
- STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
- CONTRACTOR SHALL SUBMIT TO CITY, A TRAFFIC CONTROL PLAN UTILIZING LAYOUT 9 OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL, LATEST VERSION, PRIOR TO ANY WORK IN NORMANDEALE BLVD./TH100 FRONTAGE ROAD.
- LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES IN ALL CONSTRUCTION AND DEMOLITION AREAS.
- ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.



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.  
 Print Name: SAMUEL N. WESTLUND  
 Date: 5/15/2017 License #: 53569

DRAWN BY: S. WESTLUND  
 DESIGNED BY: S. WESTLUND  
 CHECKED BY: M. AARON  
 COMM. NO. 10277.00



ENGINEERS  
 PLANNERS  
 DESIGNERS

DOUBLETREE PARKING LOT RECONFIGURATION  
 7800 NORMANDEALE BLVD  
 UTILITY PLAN  
 BLOOMINGTON, MINNESOTA

SHEET  
 C4.0

5/16/2017 10:17:09 AM  
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NO	DATE	BY	CKD	APPR	CITY COMMENT REVISIONS
1	05/15/17	TAM	MCA	MCA	

