Case 3761ABC-14

OATI SOUTH CAMPUS

COMPUTER AVENUE, BLOOMINGTON, MN

PROJECT PARTICIPANTS

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3660 Technology Drive
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scott.rieger@dunhameng.com

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Minneapolis, MN 55402
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lonnie.vandekamp@dunhameng.com

SHEET INDEX

		CITY SUBMITTAL 07/02/14	CITY RESUBMITTAL 07/18/14
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-	SURROUNDING PROPERTIES MAP	●	
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C2	SITE UTILITIES	●	●
C3	NOTES AND DETAILS	●	●
C4	SWPPP DETAILS	●	●
C5	SWPPP NOTES	●	●
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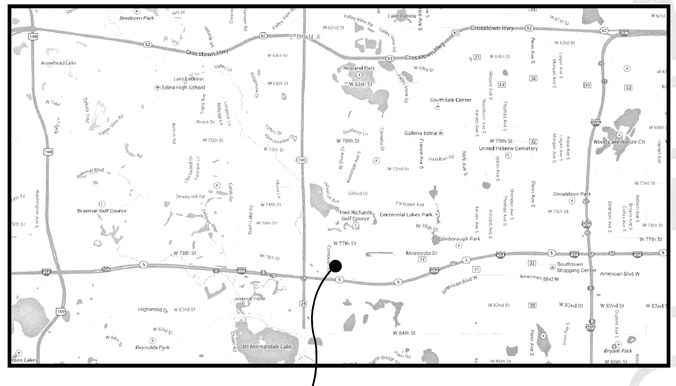
SHEET INDEX

		CITY SUBMITTAL 07/02/14	CITY RESUBMITTAL 07/18/14
MECHANICAL			
-	-		
ELECTRICAL (OWNER PROVIDED INFORMATION)			
E0.2A	SITE PHOTOMETRIC PLAN	●	●
E0.2B	SITE PHOTOMETRIC PLAN		●
E0.2C	SITE PHOTOMETRIC PLAN		●

VICINITY MAP



SITE LOCATION :
COMPUTER AVENUE
BLOOMINGTON, MN

NORTH

NOT FOR CONSTRUCTION

POPE ARCHITECTS
1295 BANDANA BLVD N, SUITE 200
ST. PAUL, MN 55108-2735
(651) 642-9200 | FAX (651) 642-1101
www.popearch.com

COMPUTER AVENUE, LLC

OATI - SOUTH CAMPUS

CITY SUBMITTAL
07-02-14

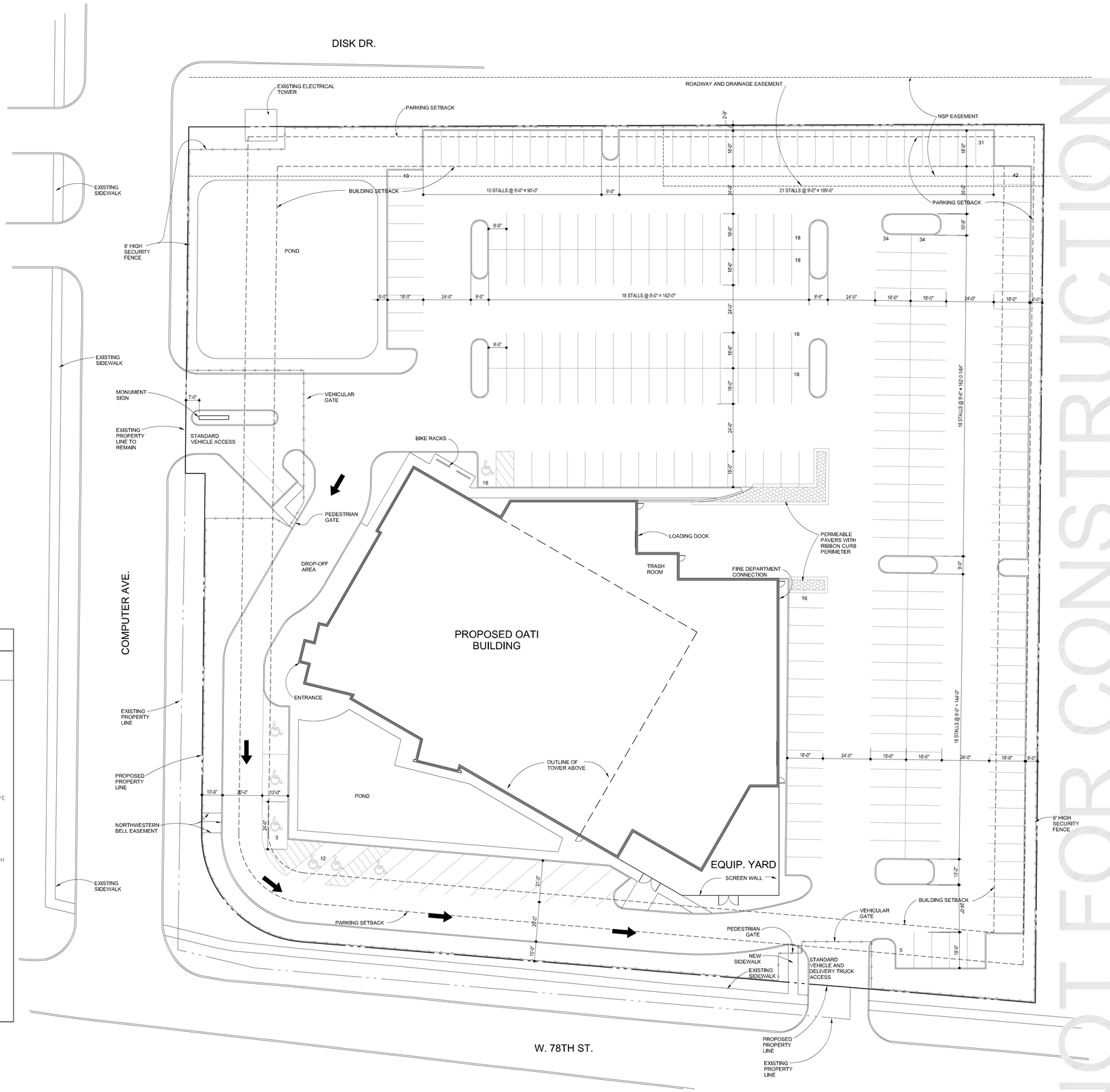
TITLE SHEET

Issues and Revisions:
CITY PLAN SUBMISSION 07/02/14
CITY PLAN RESUBMISSION 07/18/14

Commission No. 15567-14050
Drawn by KH
Checked by GV

SHEET
A0.1

Case 3761ABC-14



SITE DATA

PROPOSED ZONING: C-4 PLANNED DEVELOPMENT

ZONING REQUIREMENTS AND PROPOSALS

REQUIRED BUILDING SETBACKS		
ALONG PUBLIC STREET		35' MIN.
REAR		40' MIN
SIDE		30' MIN
PROPOSED BUILDING SETBACKS		
ALONG PUBLIC STREET		44' OR LARGER
REAR		132'
SIDE		N/A
REQUIRED PARKING SETBACKS		
ALONG PUBLIC STREET		20'
REAR		5'
SIDE		5'
PROPOSED PARKING SETBACKS		
ALONG PUBLIC STREET		10' AT 78TH ST / 10'-6" AT COMPUTER AVE
ALONG NORTH PROP. LINE		2'-9"
ALONG EAST PROP. LINE		6'-0"
SITE AREA		+/-180,785 S.F. (+/-4.150 ACRES)
PROPOSED BUILDING AREA		1ST FLOOR = 31,026 S.F. 2ND FLOOR = 18,511 S.F. 3RD THROUGH 5TH FLOOR= 20,162 S.F. EACH TOTAL= 110,023 S.F.
REQUIRED PERMEABLE SITE AREA		10%
PROPOSED PERMEABLE SITE AREA		+/- 36,190 SF +/-20.02%
REQUIRED FLOOR AREA RATIO		0.4 MIN - 2.0 MAX
PROPOSED FLOOR AREA RATIO		0.61
REQUIRED PARKING	FLOOR 1	0 STALLS
	FLOOR 2	18511 SF
	FLOOR 3 THROUGH 5 -	20,162 SF PER FLOOR
	TOTAL AREA	78,997 SF X 1 STALL/285 SF 277 STALLS REQUIRED
PROPOSED PARKING		270 REGULAR STALLS 7 HANDICAPPED STALLS 277 STALLS PROVIDED

1 / A1.1 ARCHITECTURAL SITE PLAN
1"=20'-0"

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ARCHITECTURAL SITE PLAN

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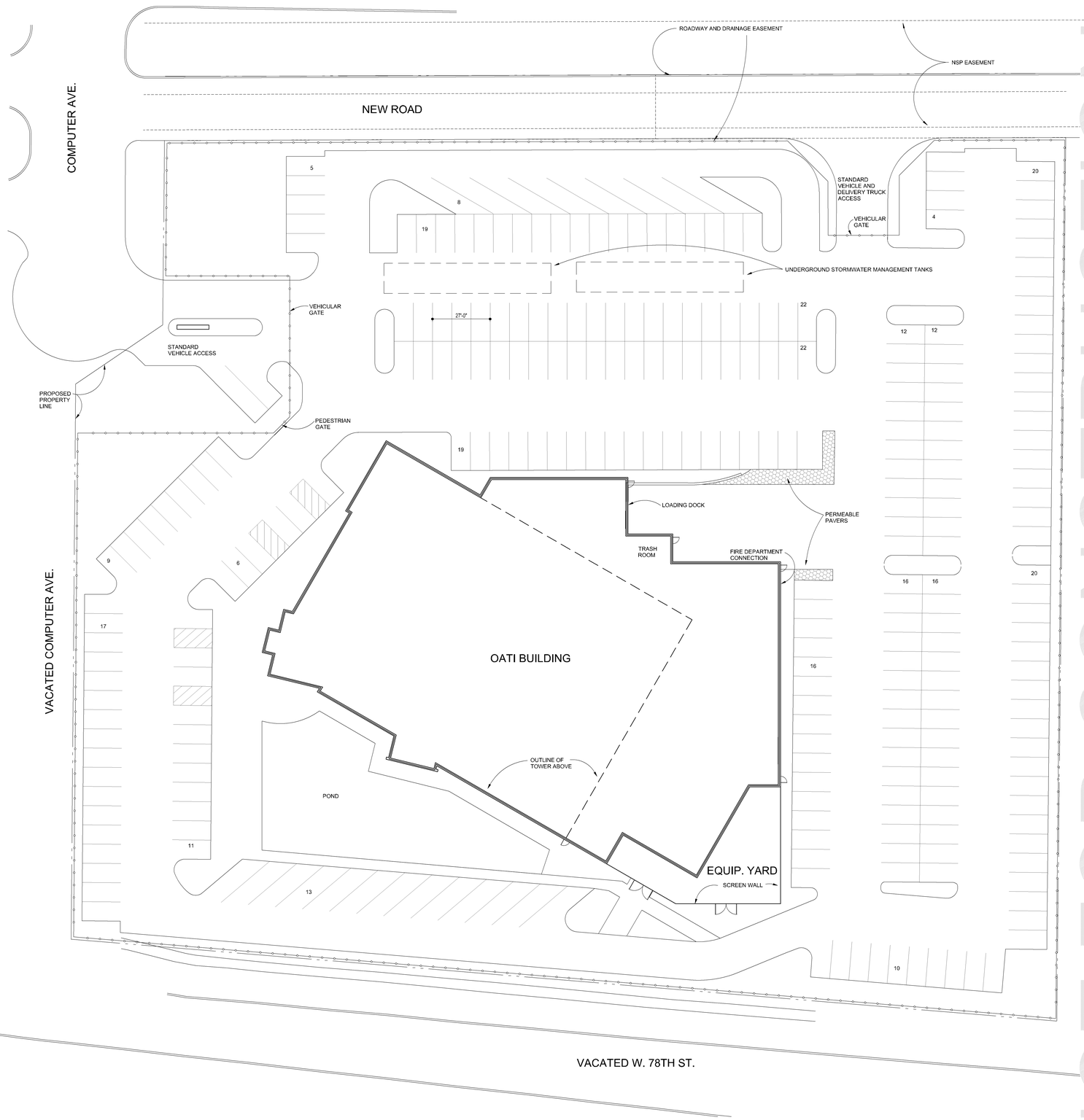

PROOF OF PARKING

THIS SITE PLAN ILLUSTRATES A POSSIBLE SITE DESIGN IF COMPUTER AVENUE AND 78TH STREET WERE TO BE VACATED IN THE FUTURE AND A NEW ROAD CONSTRUCTED ON THE NORTH SIDE OF THE SITE.

REQUIRED PARKING	FLOOR 1	0 STALLS
	FLOOR 2	18511 SF
	FLOOR 3 THROUGH 5 -	20,162 SF PER FLOOR
	TOTAL AREA	78,997 SF
		X 1 STALL/285 SF
		277 STALLS REQUIRED
PROPOSED PARKING		270 REGULAR STALLS
		7 HANDICAPPED STALLS
		277 STALLS PROVIDED

1 / A1.2 ARCHITECTURAL SITE PLAN - PROOF OF PARKING
1"=20'-0"

0 10' 20' 40'

NORTH TRUE NORTH PLAN

NOT FOR CONSTRUCTION

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ARCHITECTURAL SITE PLAN - PROOF OF PARKING

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SHEET

A1.2

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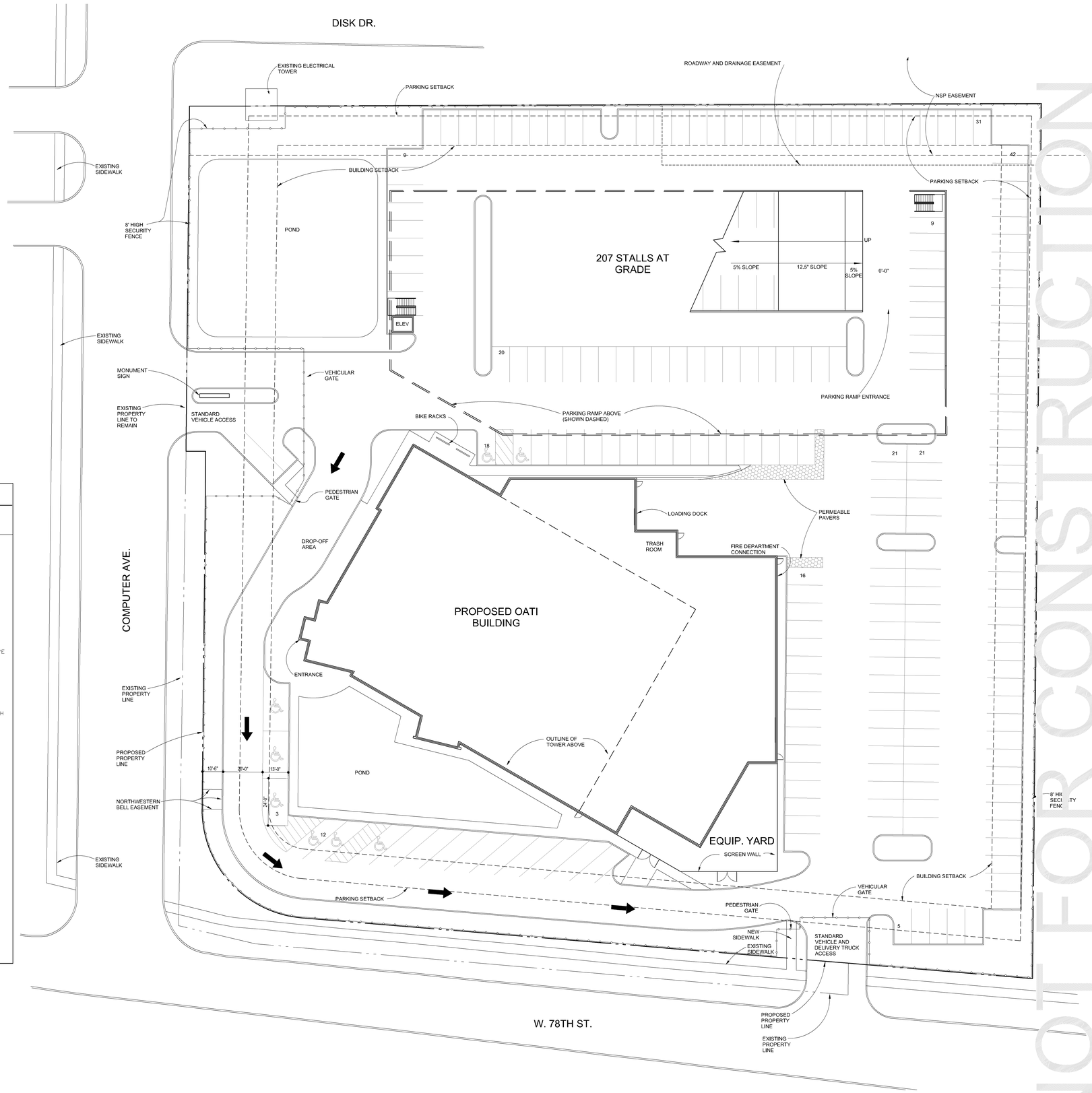

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REAR		132'
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PROPOSED PERMEABLE SITE AREA		+/- 36,190 SF +/-20.02%
REQUIRED FLOOR AREA RATIO		0.4 MIN - 2.0 MAX
PROPOSED FLOOR AREA RATIO		0.61
REQUIRED PARKING	FLOOR 1	TRAINING ROOM = 3018 SF 15 SF/ OCC = 201 OCCUPANTS 1 STALL PER 3 OCCUPANTS 67.1 STALLS OFFICE AREA = 6019 SF 1 STALL PER 285 SF 21.1 STALLS DATA CENTER = 21989 SF 0 STALLS
	FLOOR 2	18511 SF
	FLOOR 3 THROUGH 5	20,162 SF PER FLOOR
	TOTAL AREA	78,997 SF X 1 STALL/285 SF 277 STALLS +88 STALLS 365 STALLS REQUIRED
PROPOSED PARKING		357 REGULAR STALLS 8 HANDICAPPED STALLS 365 STALLS PROVIDED

1 / A1.3 ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION FIRST FLOOR

1"=20'-0"

0 10' 20' 40'

NORTH TRUE

NOT FOR CONSTRUCTION

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CITY SUBMITTAL
07-02-14

ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION FIRST FLOOR

Issues and Revisions:

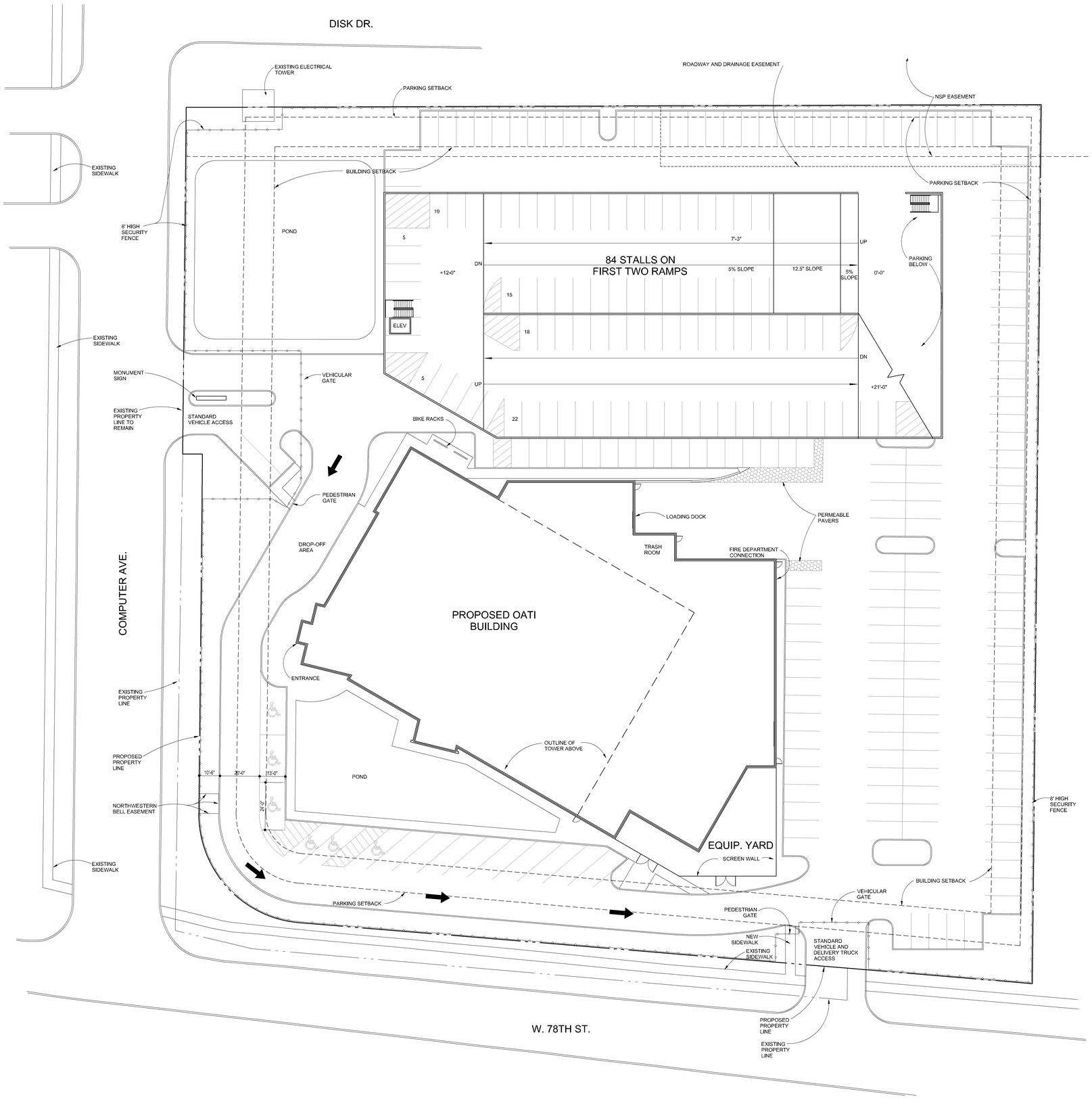
CITY PLAN SUBMISSION	07/02/14
CITY PLAN RESUBMISSION	07/18/14

Commission No.	15567-14050
Drawn by	KH
Checked by	GV

SHEET

A1.3

Case 3761ABC-14



1 A1.4 ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION SECOND FLOOR
1"=20'-0"

0 10' 20' 40'

NORTH TRUE

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CITY SUBMITTAL
07-02-14

ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION SECOND FLOOR

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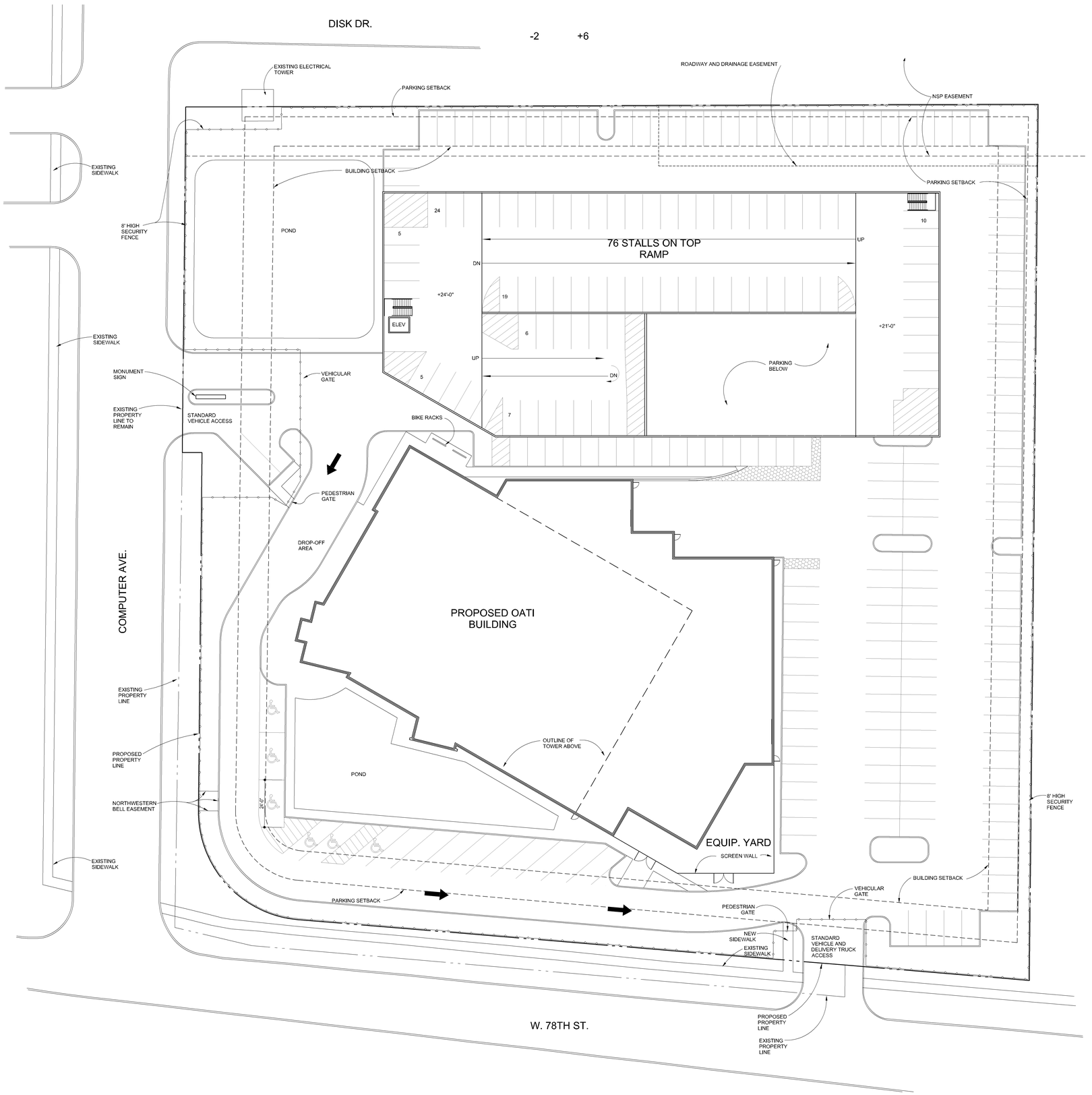
SHEET
A1.4

Case 3761ABC-14



1 / A1.5 ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION THIRD FLOOR
1"=20'-0"

0 10' 20' 40'

NORTH TRUE

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07-02-14

ARCH SITE PLAN - PROOF OF PARKING RAMP OPTION THIRD FLOOR

Issues and Revisions:

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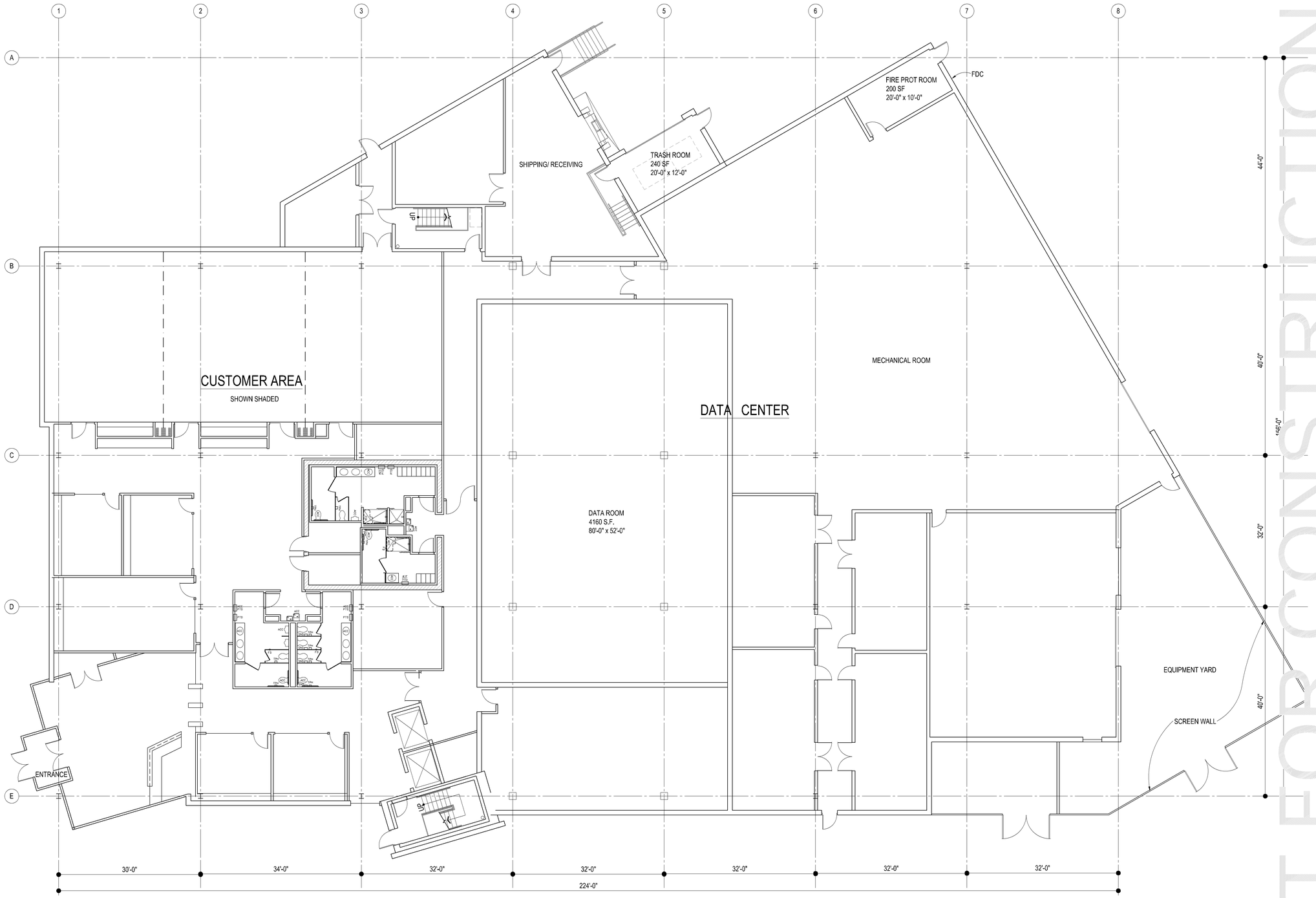
Drawn by	KH
Checked by	GV

SHEET
A1.5

Case 3761ABC-14



1 A2.1 FIRST FLOOR PLAN
1/8"=1'-0"

0 4' 8' 16'

NORTH TRUE NORTH PLAN

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CITY SUBMITTAL
07-02-14

FIRST FLOOR PLAN

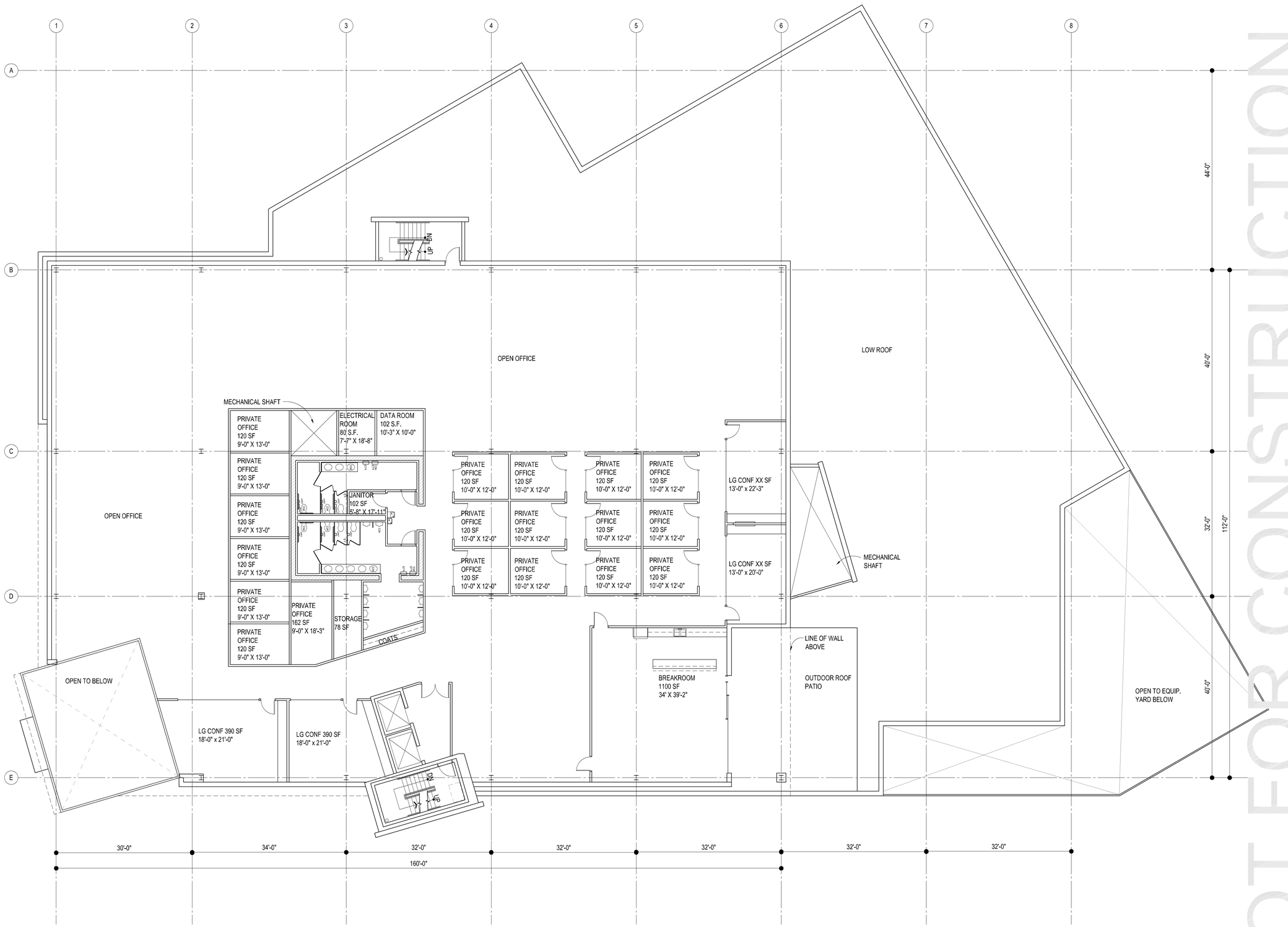
Issues and Revisions:

CITY PLAN SUBMISSION	07/02/14

Commission No.	15567-14050
Drawn by	KH
Checked by	GV

SHEET
A2.1

Case 3761ABC-14



1 A2.2 SECOND FLOOR PLAN
1/8"=1'-0"

0 4' 8' 16'

NORTH TRUE NORTH PLAN

NOT FOR CONSTRUCTION

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COMPUTER AVENUE, LLC

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CITY SUBMITTAL
07-02-14

SECOND FLOOR PLAN

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Commission No.	15567-14050
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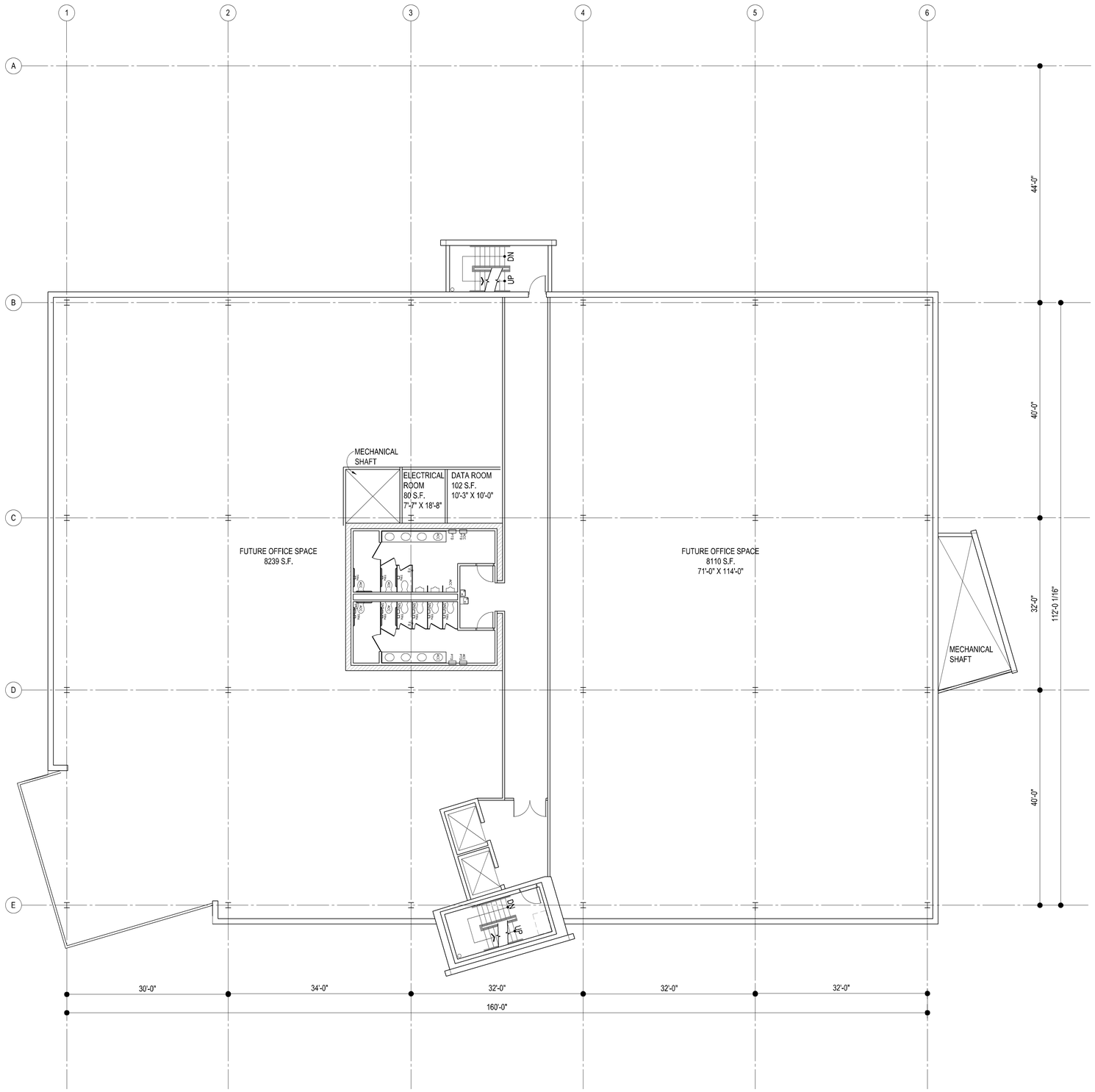
SHEET
A2.2

Case 3761ABC-14



1 A2.3 THIRD THROUGH FIFTH FLOOR PLAN
1/8"=1'-0"

0 4' 8' 16'

NORTH TRUE NORTH PLAN

NOT FOR CONSTRUCTION

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THIRD THROUGH FIFTH FLOOR PLAN

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SHEET
A2.3

Case 3761ABC-14

3 | ST. S. MH
TOP = 820.50
INV.= 816.50
INV.= 815.00
INV.= 811.00
SEE DETAIL

OUTLET CONTROL/SKIMMER STRUCTURE #1

10 LF 12" HDPE ST. S. @5.0%

15 LF 12" RCP ST. S. @3.3%

CL 3 RIP RAP TO POND BOTTOM

4 | 24" HDPE APRON
INV.= 817.00

5 | ST. S. CB
TOP = 822.50
INV. = 817.05

13 LF 36" HDPE ST. S. @0.38%

6 | ST. S. CB
TOP = 822.00
INV. = 817.30

7 | ST. S. CB
TOP = 822.00
INV. = 817.80

OBTAIN PERMISSION FROM PROPERTY OWNER FOR GRADING WORK ON ADJACENT PROPERTY.

CORE DRILL CONNECT TO EXISTING ST. S. CB. @ INV. = 816.0±. FIELD VERIFY INVERT, SIZE AND LOCATION PRIOR TO LAYING ST. S.

C.B. RIM=820.02 12" INV.=816.0

C.B. RIM=820.67 12" INV.=816.1

1 | 12" HDPE APRON
INV. = 817.00

7 LF 12" HDPE ST. S. @7.0%

2 | ST. S. CB
TOP = 821.50
INV. = 817.50

C.B. RIM=819.89 12" INV.=815.9

16 | ST. S. MH
TOP = 821.50
INV. = 814.79

STORMWATER MANAGEMENT POND P1

UNDERGROUND INFILTRATION TRENCH AREA. SEE DETAIL ON SHEET C3. PROVIDE SOIL TESTING TO DETERMINE ACTUAL RATES

132 LF 12" HDPE ST. S.

60 LF 12" HDPE ST. S.

67 LF 36" HDPE ST. S. @0.37%

130 LF 30" HDPE ST. S. @0.38%

142 LF 24" HDPE ST. S. @0.35%

8 | ST. S. CB
TOP = 822.00
INV. = 818.30

238 LF 12" HDPE ST. S. @1.05%

171 LF 24" HDPE ST. S. @0.37%

9 | ST. S. CB
TOP = 826.50
INV. = 818.93

10 | ST. S. CB
TOP = 828.90
INV. = 819.56

11 | ST. S. CB
TOP = 827.70
INV. = 823.70

85 LF 12" HDPE ST. S. @2.71%

137 LF 24" HDPE ST. S. @0.36%

122 LF 24" HDPE ST. S. @0.36%

12 | ST. S. MH
TOP = 829.50
INV. = 820.00

13 | ST. S. CB
TOP = 824.50
INV. = 820.50

14 | TRENCH DRAIN
TOP = 823.80
INV. = 820.80

15 | ST. S. MH
TOP = 826.50
INV. = 814.37

LOCATION OF PROPOSED RETAINING WALL. DESIGN BY OTHERS.

PROPOSED BUILDING
FFE = 828.00

TEMPORARY ROCK CONSTRUCTION ENTRANCE

OUTLET CONTROL/SKIMMER STRUCTURE #2

BUILDING ROOF DRAINS TO DISCHARGE AT GRADE. DIRECTED INTO STORMWATER POND P2.

STORMWATER MANAGEMENT POND P2

8" DRAIN TILE

SAN. M.H. RIM=827.26 10" E–W INV.=803.5 18" N–S INV.=803.5

CONC. WALL

N. LINE OF DOC. NO. 1141171 TURNBACK TO CITY OF BLOOMINGTON SAME AS S. LINE OF TRACT G, RLS 989

HSJ BENCHMARK TOP NUT HYDRANT ELEV.=834.31

SAN. M.H. RIM=832.23 10" E–W INV.=805.2

EXISTING BUILDING

BILLBOARD SIGN

FLAG POLE

OH DOOR 28.00

QH DOOR 28.00

TRACT I

TRACT H

TRACT G

TRACT F

W. LINE TRACT H
E. LINE TRACT G

W. LINE PARCEL 1
E. LINE PARCEL 1

S. LINE OF N 75' OF TRACTS G & H, RLS NO 989

N. LINE OF TRACT F, RLS NO. 989

S. LINE OF TRACT G, RLS NO. 989

N 89°56'53" W 439.95

N 85°15'23" W 301.71

ROADWAY EASEMENT PER DOC. NO. 1458692

ROADWAY EASEMENT PER DOC. NO. 1458693

ROADWAY, DRAINAGE AND UTILITY EASEMENT PER DOC. NO. 1142429

SO. LINE OF THE NO. 680.00' OF THE NW 1/4 SEC. 6, T. 27N, R. 24W

N 89°48'07" E 432.00

W. LINE OF THE E. 1422.05' OF THE NW 1/4, SEC. 6

W. LINE OF THE W. 1392.05' OF THE E. 1422.05' OF THE NW 1/4, SEC. 6

N 443.81

NSP EASEMENT PER BOOK 1034, PG. 394

EAST EASEMENT PER DOCUMENT NO. 212174

NO LINE TRACT I, RLS NO. 989

W. LINE OF E. 975' OF TRACT I, RLS NO. 989

W. LINE OF E. 1422.05' OF THE NW 1/4, SEC. 6

W. LINE OF E. 1392.05' OF THE E. 1422.05' OF THE NW 1/4, SEC. 6

W. LINE OF THE W. 1392.05' OF THE E. 1422.05' OF THE NW 1/4, SEC. 6

S. LINE OF STATE HWY NO 5 AS LAID OUT & MONUMENTED

STATE HIGHWAY NO. 5
AKA INTERSTATE HIGHWAY 494

WEST 78TH STREET

SOUTH 5TH STREET

CEDAR LAKE ROAD

CEDAR AVENUE SOUTH

PUBLIC ROAD

CAMPUS DRIVE

COMPUTER AVENUE

KEYNOTES

KEYNOTES ARE DENOTED BY: ⬡.

① — INSTALL SILTSAC, OR APPROVED EQUAL, EROSION CONTROL SILT TRAP INSIDE CATCHBASIN. REMOVE SILT AND RE-USE SILTSAC AS REQUIRED.

② — LOWER WATERMAIN TO PROVIDE 18" MIN. CLEARANCE BETWEEN SEWER AND WATER AT CROSSING.

③ — PATCH STREET TO MATCH EXISTING PAVEMENT SECTION AND GRADE. SOD RIGHT OF WAY. REPLACE CONCRETE CURB AND GUTTER. AREA SHOWN IS GENERAL AND MAY NEED TO BE ADJUSTED IN THE FIELD.

④ — LOCATION OF PROPOSED RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DESIGN AND DETAILS.

⑤ — ABANDON EXISTING WATER SERVICE AT MAIN. COORDINATE WITH CITY.

⑥ — ABANDON EXISTING SANITARY SEWER SERVICE AT MAIN. COORDINATE WITH CITY.

NO PARKING ON PUBLIC STREETS, CIRCULATION DRIVES, OR FIRE LANES. PREPARE ON-SITE CONSTRUCTION MANAGEMENT SPACE FOR EMPLOYEE PARKING, MATERIALS, EQUIPMENT, FIELD SHACK, AND OTHER CONSTRUCTION RELATED ITEMS. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION RELATED LOADING, UNLOADING, AND STOCKPILING TO OCCUR ON-SITE AND OFF OF PUBLIC STREETS.

////// = ABANDON AND REMOVE EXISTING UTILITY SERVICE IN ACCORDANCE WITH ALL STATE AND CITY OF BLOOMINGTON REQUIREMENTS

N

SCALE 20 0 20 40 IN FEET

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(800) 252-1166 TOLL FREE
(651) 454-0002 LOCAL

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

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CITY SUBMITTAL
07-02-14

Sunde Engineering, PLLC.
CONSULTING CIVIL ENGINEERS
10830 NESBITT AVENUE SOUTH
BLOOMINGTON, MINNESOTA 55437
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GRADING, DRAINAGE AND EROSION CONTROL PLAN

Issues and Revisions:

CITY SUBMITTAL	07/02/14
CITY PLAN RESUBMISSION	07/18/14

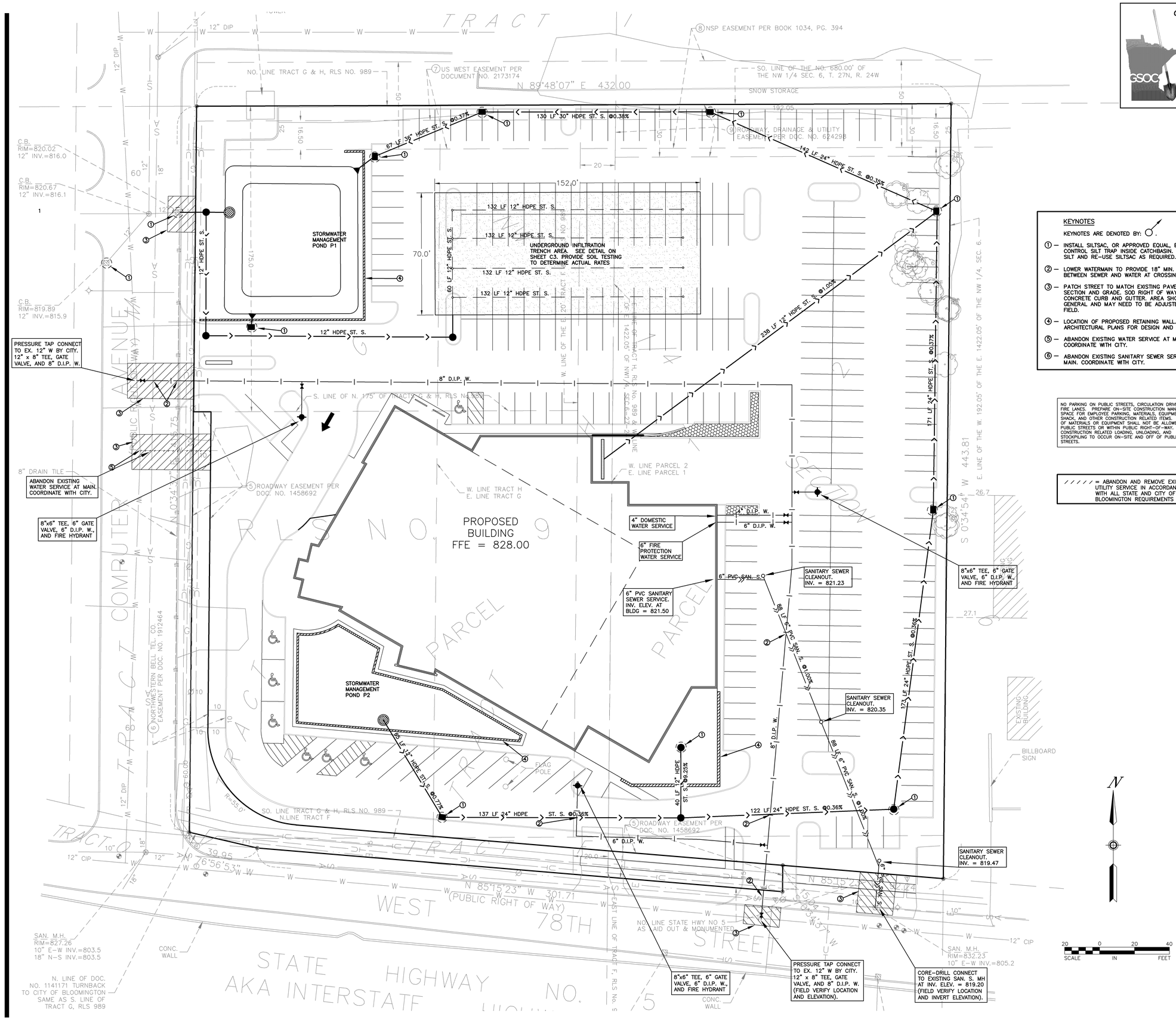
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Mike Kettler
DATE: 7/18/14 REG. NO.: REGIST

Commission No.	15567-14050
Drawn by	MW
Checked by	MK

SHEET
C1

Case 3761ABC-14



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The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

KEYNOTES

KEYNOTES ARE DENOTED BY: ①.

① — INSTALL SILTSAC, OR APPROVED EQUAL, EROSION CONTROL SILT TRAP INSIDE CATCHBASIN. REMOVE SILT AND RE-USE SILTSAC AS REQUIRED.

② — LOWER WATERMAIN TO PROVIDE 18" MIN. CLEARANCE BETWEEN SEWER AND WATER AT CROSSING.

③ — PATCH STREET TO MATCH EXISTING PAVEMENT SECTION AND GRADE. SOD RIGHT OF WAY. REPLACE CONCRETE CURB AND GUTTER. AREA SHOWN IS GENERAL AND MAY NEED TO BE ADJUSTED IN THE FIELD.

④ — LOCATION OF PROPOSED RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DESIGN AND DETAILS.

⑤ — ABANDON EXISTING WATER SERVICE AT MAIN. COORDINATE WITH CITY.

⑥ — ABANDON EXISTING SANITARY SEWER SERVICE AT MAIN. COORDINATE WITH CITY.

NO PARKING ON PUBLIC STREETS, CIRCULATION DRIVES, OR FIRE LANES. PREPARE ON-SITE CONSTRUCTION MANAGEMENT SPACE FOR EMPLOYEE PARKING, MATERIALS, EQUIPMENT, FIELD SHACK, AND OTHER CONSTRUCTION RELATED ITEMS. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION RELATED LOADING, UNLOADING, AND STOCKPILING TO OCCUR ON-SITE AND OFF OF PUBLIC STREETS.

////// = ABANDON AND REMOVE EXISTING UTILITY SERVICE IN ACCORDANCE WITH ALL STATE AND CITY OF BLOOMINGTON REQUIREMENTS

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SITE UTILITIES

Issues and Revisions:

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CITY PLAN RESUBMISSION	07/18/14

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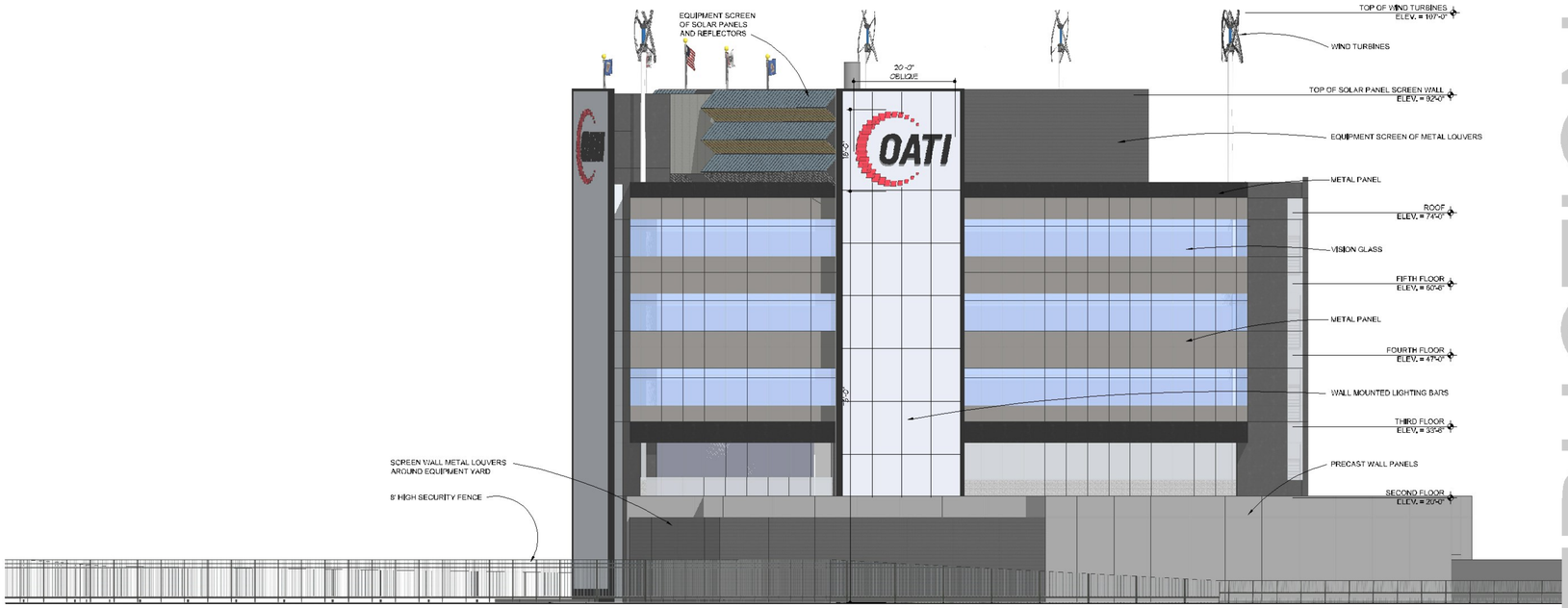
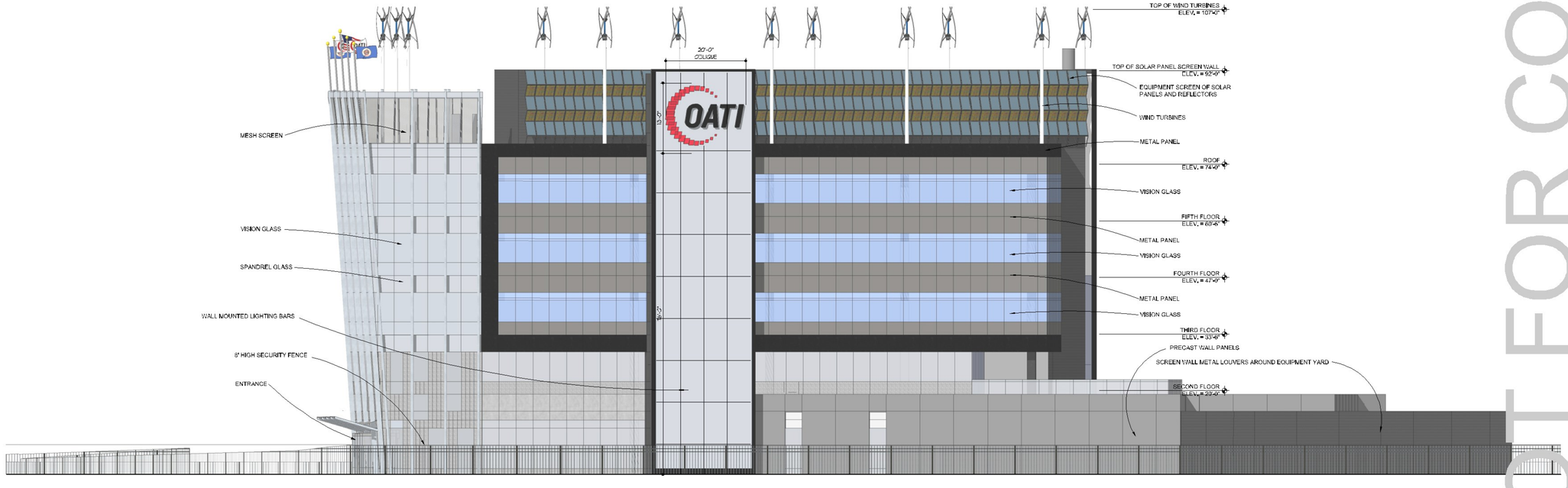


2 A3.1 EAST ELEVATION
3/32"=1'-0"

0 5'-4" 10'-8" 21'-4"



1 A3.1 SOUTH ELEVATION
3/32"=1'-0"

0 5'-4" 10'-8" 21'-4"

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CITY SUBMITTAL
07-02-14

SOUTH AND EAST ELEVATIONS

Issues and Revisions:

CITY PLAN SUBMISSION	07/02/14

Commission No.	15567-14050
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Checked by	GV

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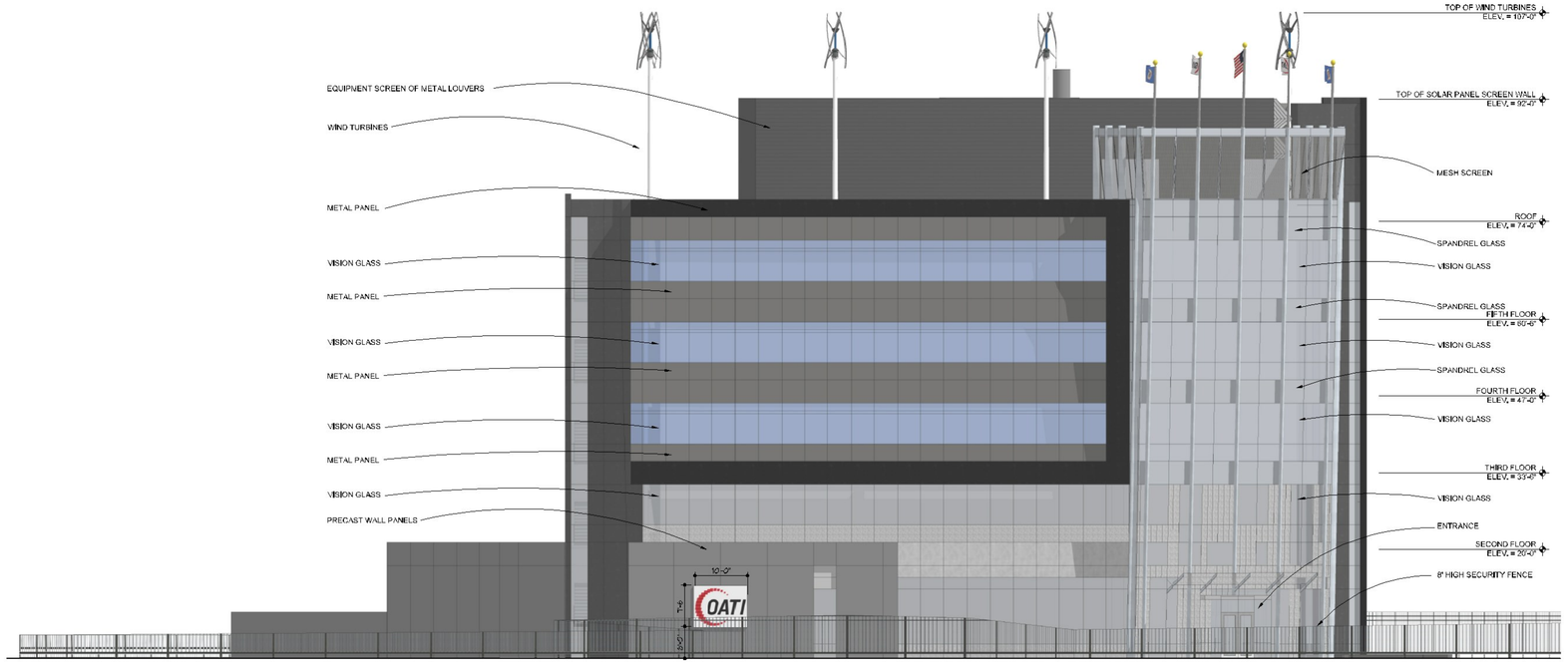
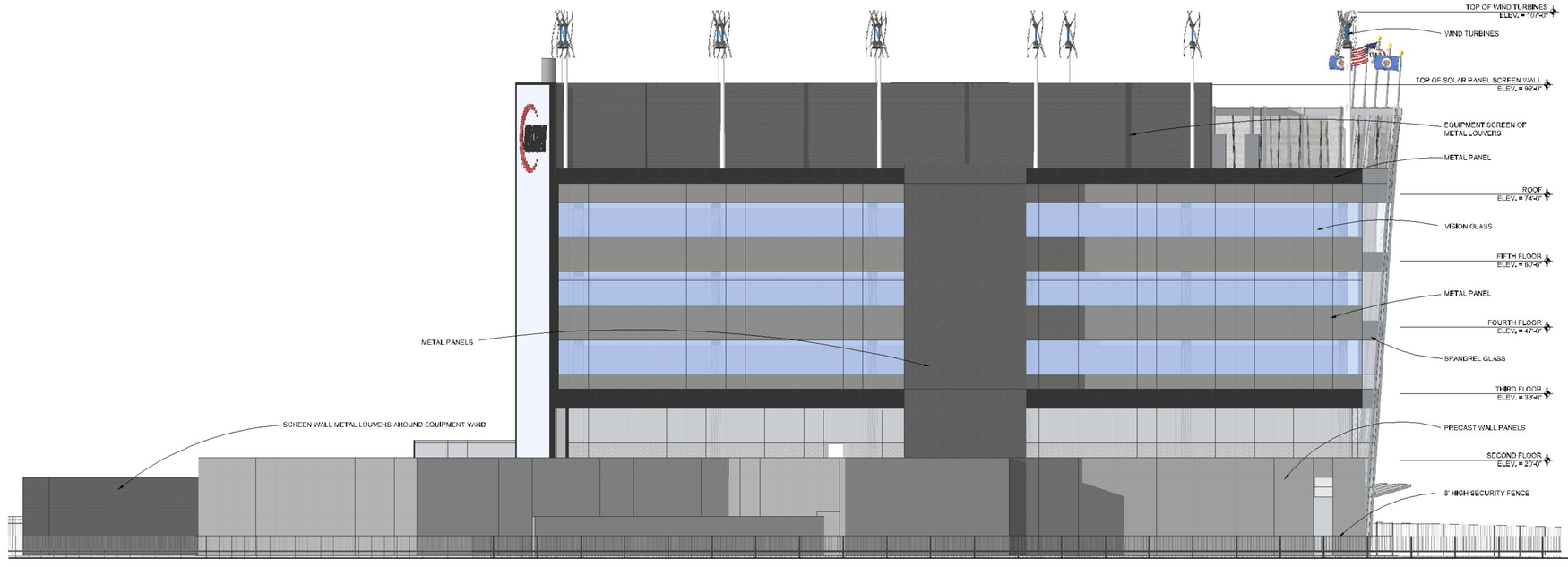
A3.1

Case 3761ABC-14



2 A3.2 WEST ELEVATION
3/32"=1'-0"

0 5'-4" 10'-8" 21'-4"



1 A3.2 NORTH ELEVATION
3/32"=1'-0"

0 5'-4" 10'-8" 21'-4"

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07-02-14

NORTH AND WEST ELEVATIONS

Issues and Revisions:

CITY PLAN SUBMISSION	07/02/14

Commission No.	15567-14050
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Checked by	GV

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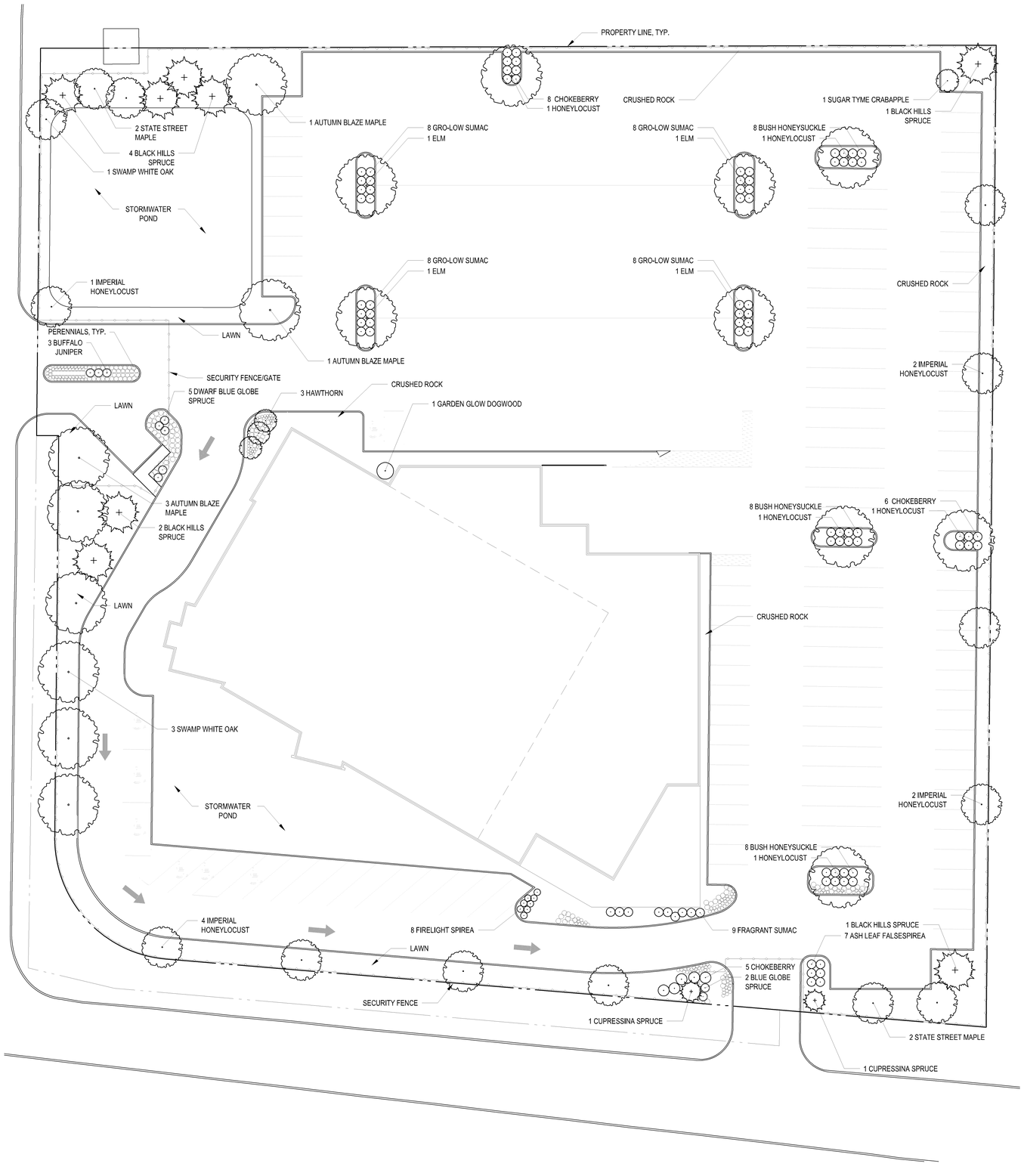
A3.2

SCHEMATIC LANDSCAPE PLAN

0 5' 20' 40'



LANDSCAPE NOTES

GENERAL NOTES

1. CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
2. CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
3. CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
4. CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS (MINIMUM 10' CLEARANCE).
6. CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
7. UNDERGROUND UTILITIES SHALL BE INSTALLED SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF EXISTING TREES TO REMAIN.
8. EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER ELEMENTS ARE BASED UPON INFORMATION SUPPLIED TO THE LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.
9. HORIZONTAL AND VERTICAL ALIGNMENT OF PROPOSED WALKS, TRAILS OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. CHANGES IN ALIGNMENT AND GRADES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO IMPLEMENTATION.
10. CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
11. CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
12. EXISTING TREES OR SIGNIFICANT SHRUB MASSINGS FOUND ON SITE SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED OR ARE LOCATED IN AN AREA TO BE GRADED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
13. EXISTING TREES TO REMAIN, UPON DIRECTION OF LANDSCAPE ARCHITECT, SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED AND RUBBING BRANCHES.
14. CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY REQUEST.
15. CONTRACTOR SHALL PREPARE AND SUBMIT REPRODUCIBLE AS-BUILT DRAWING(S) OF LANDSCAPE INSTALLATION, IRRIGATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO SUBSTANTIAL COMPLETION.
16. SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.

GRADING NOTES

1. ROUGH GRADING AND FINISHED GRADING TO BE DONE BY OTHERS EXCEPT WHERE NOTED.
2. REFER TO CIVIL PLANS FOR GRADING LIMITS.
3. FILL AS NECESSARY IN PLANTING BEDS ADJACENT TO BUILDING TO PROVIDE A 1% MINIMUM GRADE AWAY FROM FOUNDATION.
4. SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE OR AS INDICATED ON PLANS AND STOCKPILE FOR REUSE.
5. OBTAIN SOIL SAMPLE FROM SALVAGED TOPSOIL STOCKPILE AND SUBMIT TO INDEPENDENT TESTING AGENCY FOR ANALYSIS.
6. ELEVATIONS, IF SHOWN ARE FINISHED ELEVATIONS. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS.
7. CONTRACTOR SHALL CONTACT PUBLIC UTILITIES FOR LOCATION OF UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. LANDSCAPE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL MEASURES AS REQUIRED TO ENSURE THAT EROSION IS KEPT TO AN ABSOLUTE MINIMUM.
9. CONTRACTOR SHALL CONFIRM CATCH BASIN EROSION CONTROL MEASURES ARE IN PLACE WHEN BARE SOIL IS EXPOSED ON THE SITE.
10. WITHIN TWO WEEKS OF FINISHED SITE GRADING, DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR ROCK BASE.
11. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES AND EXCESS SEDIMENT IN PROPOSED CATCH BASINS, FOR THE DURATION OF CONSTRUCTION.

PLANTING NOTES

1. STAKE PROPOSED PLANTING LOCATIONS PER PLAN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALL.
2. PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO 'V' CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE PAVED SURFACE.
3. INSTALL PLANT MATERIAL ONCE FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. INSTALL PLANT MATERIALS PER PLANTING DETAILS.
5. SUBSTITUTION REQUESTS FOR PLANT MATERIAL TYPE & SIZE SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO BIDDING. ALL SUBSTITUTIONS AFTER BIDDING MUST BE APPROVED BY LANDSCAPE ARCHTIECT AND ARE SUBJECT TO CONTRACT ADJUSTMENTS.
6. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
7. FERTILIZE PLANT MATERIAL UPON INSTALLATION WITH DRIED BONE MEAL. OTHER APPROVED FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS OR MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 10-0-5 OF 12 OZ. PER 2.5" CALIPER TREE AND 6 OZ. PER SHRUB WITH AN ADDITIONAL APPLICATION OF 10-0-10 THE FOLLOWING SPRING IN THE TREE SAUCER.
8. INSTALL 18" DEPTH OF PLANTING SOIL IN AREAS RECEIVING GROUND COVER, PERENNIALS, & ANNUALS. PLANTING SOIL SHALL CONSIST OF MnDOT 3877-C MODIFIED TO CONTAIN A MAXIMUM OF 30% SAND, A PH OF 7.1 MAX, OR AS OTHERWISE SPECIFIED IN THE PROJECT MANUAL.
9. TREE WRAPPING MATERIAL SHALL BE TWO-WALLED PLASTIC SHEETING APPLIED FROM TRUNK FLARE TO FIRST BRANCH. WRAP SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1.
10. 3/16" THICK STEEL EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS AND ANNUALS WHERE PLANTING BED MEETS SOD UNLESS OTHERWISE NOTED.
11. APPLY PRE-EMERGENT HERBICIDE (PREEN OR APPROVED EQUAL) IN ANNUAL, PERENNIAL, AND SHRUB BEDS FOLLOWED BY SHREDDED HARDWOOD MULCH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF HERBICIDES.
12. INSTALL 3" DEEP SHREDDED HARDWOOD MULCH RINGS AT COMPIFEROUS & DECIDUOUS TREES WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.
13. INSTALL 2" DEEP SHREDDED HARDWOOD MULCH RINGS AT SHRUB PLANTING AREAS WITH NO MULCH IN DIRECT CONTACT WITH SHRUB STEMS.
14. INSTALL 2" DEEP FINELY SHREDDED MULCH OR 1" DEEP SHREDDED HARDWOOD MULCH IN PERENNIAL PLANTING BEDS. REMOVE ALL MULCH FROM STEMS OF PERENNIALS - PLANT STEMS SHOULD NOT BE IN DIRECT CONTACT WITH MULCH.
15. WARRANTY NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.
16. SPRING PLANT MATERIAL INSTALLATION IS FROM THE APRIL 15 TO JUNE 15.
17. FALL CONIFEROUS PLANTING IS ACCEPTABLE FROM AUGUST 21 TO SEPTEMBER 30.
18. FALL DECIDUOUS PLANTING IS ACCEPTABLE FROM AUGUST 15 UNTIL NOVEMBER 15.
19. ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

IRRIGATION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION AS PART OF THE SCOPE OF WORK. SUBMIT LAYOUT PLAN AND SPECIFICATIONS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SODDED/SEEDED AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ABUTTING BUILDING FOUNDATION.
2. CONTRACTOR SHALL VERIFY (EXISTING) IRRIGATION SYSTEM LAYOUT AND CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING SHOP DRAWINGS.
3. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF ALL AREAS RECEIVING DRIP IRRIGATION PRIOR TO INSTALLATION OF ANY MULCH.
4. CONTRACTOR SHALL PROVIDE THE OWNER WITH AN IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE CONDITIONS AND TO PLANTED MATERIAL GROWTH REQUIREMENTS.
5. CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN PLANTING AREAS.

TURF NOTES

1. SOD AREAS DISTURBED DUE TO GRADING UNLESS NOTED OTHERWISE.
2. WHERE SOD ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.
3. SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, SOD SHALL BE STAKED SECURELY.
4. UNLESS NOTED OTHERWISE, THE APPROPRIATE DATES FOR SPRING SEED & SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.
5. FALL SODDING IS ACCEPTABLE FROM AUGUST 15 TO NOVEMBER 1. FALL SEEDING IS ACCEPTABLE FROM AUGUST 15 TO SEPTEMBER 15. ADJUSTMENTS TO SOD/SEED PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

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CITY SUBMITTAL
07-02-14

LANDSCAPE PLAN

CITY PLAN SUBMISSION	07/02/14
CITY PLAN RESUBMISSION	07/18/14

JOB NO.	15567-14050
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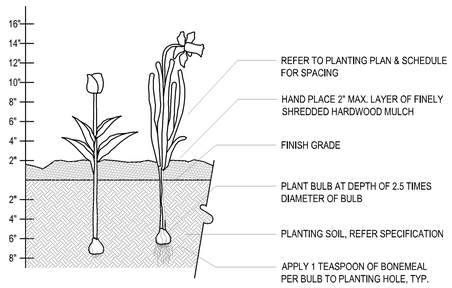
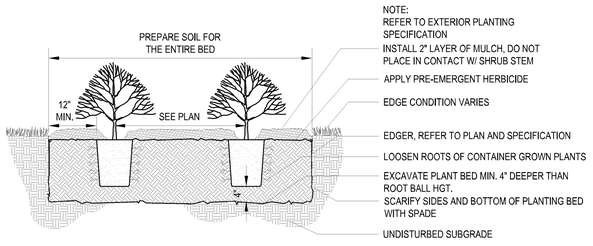


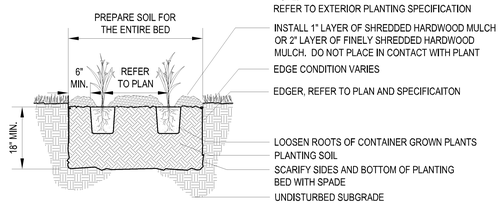
1 L2 BULB PLANTING DETAIL

SCALE 1" = 1'-0"



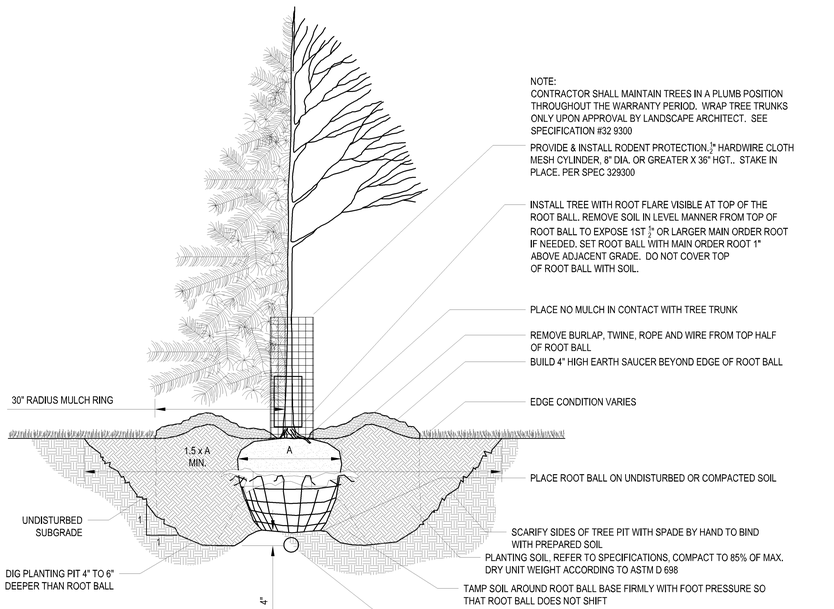
2 L2 SHRUB PLANTING DETAIL

SCALE 3/4" = 1'-0"



3 L2 PERENNIAL PLANTING DETAIL

SCALE 3/4" = 1'-0"



4 L2 TREE PLANTING DETAIL

SCALE 3/4" = 1'-0"

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT CONT.	SIZE	SPECIFICATIONS
	31	DECIDUOUS SHADE TREES				
TA	5	ACER X FREEMANII 'JEFFERSRED'	MAPLE, AUTUMN BLAZE	B&B	2.5" CAL.	14'-16' HT., TRUNK FREE OF BRANCHES 6'-7'
TB	4	ACER MIYABEI 'MORTON'	MAPLE, STATE STREET	B&B	2.5" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
TC	5	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST, SKYLINE	B&B	2.5" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
TD	9	GLEDITSIA TRIACANTHOS VAR. INERMIS 'IMPCOLE'	HONEYLOCUST, IMPERIAL	B&B	2.5" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
TE	4	QUERCUS BICOLOR	OAK, SWAMP WHITE	B&B	2.5" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
TF		QUERCUS X WAREI 'LONG'	OAK, REGAL PRINCE	B&B	3.0" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
TG	4	ULMUS AMERICANA 'PRINCETON'	ELM, PRINCETON	B&B	2.5" CAL.	12'-14' HT., TRUNK FREE OF BRANCHES 6'-7'
	4	DECIDUOUS ORNAMENTAL TREES				
OA		AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	SERVICEBERRY, AUTUMN BRILLIANCE	B&B	12' HGT.	MULTI-STEM, 12'-14' HT., SEVEN OR MORE BRANCHES
OB	3	CRATAEGUS CRUS-GALLI VAR. INERMIS	HAWTHORN, THORNLESS	B&B	2.0" CAL.	MATCHING FORM
OC		MAACKIA AMURENSIS	MAACKIA, AMUR	B&B	2.0" CAL. OR CLUMP	SINGLE STEM, MATCHING SPECIMENS
OD	1	MALUS 'SUGAR TYME'	CRABAPPLE, SUGAR TYME®	B&B	2.0" CAL.	SINGLE-STEM
OE		MALUS 'SNOW DRIFT'	CRABAPPLE, SNOW DRIFT	B&B	2.0" CAL. OR CLUMP	SINGLE-STEM
OF		MALUS 'SPRING SNOW'	CRABAPPLE, SPRING SNOW	B&B	2.0" CAL. OR CLUMP	SINGLE-STEM
OG		MALUS 'RED BARRON'	CRAB APPLE, RED BARRON	B&B	1.5" CAL.	MATCHING COLUMNAR FORM
OH		PYRUS USSURIENSIS 'BAILFROST'	PEAR, MOUNTAIN FROST	B&B	2.0" CAL.	SINGLE STEM
	10	CONIFEROUS TREES				
CA	2	PICEA ABIES 'CUPRESSINA'	SPRUCE, NORWAY 'CUPRESSINA'	B&B	8' HGT.	NATURAL FORM, UNSHEARED
CB	8	PICEA GLAUCA DENSATA	SPRUCE, BLACK HILLS	TBD	10' HGT.	ROOT PRUNED STOCK - CAN BE B&B OR SPADED
	10	CONIFEROUS SHRUBS				
EA		JUNIPERUS CHINENSIS	JUNIPER, MINT JULEP®	CONT.	#5	PLANT 4'O.C.
EB	3	JUNIPERUS SABINA 'BROADMOOR'	JUNIPER, BUFFALO	CONT.	#5	PLANT AS SHOWN (SALT TOLERANT GROUND COVER)
EC		JUNIPERUS SCOPULORUM 'BLUE ARROW'	JUNIPER, BLUE ARROW	CONT.	#15	
ED		JUNIPERUS SCOPULORUM 'WICHITA BLUE'	JUNIPER, WICHITA BLUE	CONT.	#7	PLANT AS INDICATED ON PLAN
EE		JUNIPERUS X PFITZERIANA 'SEA OF GOLD'	JUNIPER, SEA OF GOLD	CONT.	#5	PLANT 3.5' O.C.
EF	7	PICEA PUNGENS 'GLOBOSA'	SPRUCE, DWARF BLUE GLOBE	CONT.	#5	PLANT 4' O.C.
EG		TAXUS X MEDIA 'DARK GREEN SPREADER'	YEW, DARK GREEN	CONT.	#5	PLANT 4' O.C.
	99	DECIDUOUS SHRUBS				
SA		AMELANCHIER ALNIFOLIA 'REGENT'	SERVICEBERRY, REGENT	CONT.	#5	PLANT 5' O.C.
SB	19	ARONIA MELANCOCARPA 'MORTON'	CHOKEBERRY, IRIQUOIS BEAUTY	CONT.	#5	PLANT 4' O.C.
SC		BERBERIS THUNBERGII 'CONCORDE'	BARBERRY, CONCORDE	CONT.	#5	PLANT 2' O.C.
SD		CORNUS SERICEA 'ISANTI'	DOGWOOD, ISANTI	CONT.	#5	PLANT 4' O.C.
SE		CORNUS HESSEI 'GARDEN GLOW'	DOGWOOD, GARDEN GLOW	CONT.	#5	PLANT 4-5' O.C.
SF		CORYLUS AMERICANA	HAZELNUT, AMERICAN	CONT.	#5	PLANT 5' O.C.
SG	24	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	CONT.	#5	PLANT 4' O.C.
SH		HYDRANGEA ARBORESCENS 'ANNABELLE'	HYDRANGEA 'ANNABELLE'	CONT.	#5	PLANT 4' O.C.
SI		HYDRANGEA PANICULATA 'JANE'	HYDRANGEA, LITTLE LIME	CONT.	#5	PLANT 4' O.C.
SJ		PHYSOCARPUS OPULIFOLIUS 'DART'S GOLD'	NINEBARK, DART'S GOLD	CONT.	#5	PLANT AS SHOWN ON PLAN
SK		PHYSOCARPUS OPULIFOLIUS 'DONNA MAY'	NINEBARK, LITTLE DEVIL	CONT.	#5	PLANT 3.5' O.C.
SL		PHYSOCARPUS OPULIFOLIUS 'SEWARD'	NINEBARK, SUMMER WINE	CONT.	#5	PLANT 4' O.C.
SM	9	RHUS AROMATICA	SUMAC, FRAGRANT	CONT.	#5	PLANT 4' O.C.
SN	32	RHUS AROMATICA 'GRO-LOW'	SUMAC, GRO-LOW FRAGRANT	CONT.	#5	PLANT 4' O.C.
SO		RHUS TYPHINA 'LACINIATA'	SUMAC, CUTLEAF STAGHORN	CONT.	#5	PLANT 6' O.C. OR AS INDICATED ON PLAN
SP		SALIX INTEGRA 'HAKURA NISHIKI'	WILLOW, DAPPLED	CONT.	#5	PLANT 4' O.C.
SQ		SORBARIA SORBIFOLIA 'SEM'	FALSESPIREA, SEM	CONT.	#5	PLANT 2.5' O.C.
SR	7	SORBARIA SORBIFOLIA	FALSESPIREA, ASH LEAF	CONT.	#5	PLANT 4' O.C.
SS	8	SPIRAEA X 'FIRE LIGHT'	SPIREA, FIRE LIGHT	CONT.	#2	
ST		SPIRAEA X 'GOLDMOUND'	SPIREA, GOLDMOUND	CONT.	#2	PLANT 3' O.C.
SU		SYRINGA MEYERI 'PALIBIN'	LILAC, DWARF KOREAN	CONT.	#5	PLANT 4' O.C. OR AS INDICATED ON PLAN
	###	PERENNIALS				
PA		ACHILLEA 'MOONSHINE'	YARROW, MOONSHINE	CONT.	#1	PLANT 2.0' O.C. (GROWS 24"H X 18"W)
PB		ALLIUM TANGUTICUM 'SUMMER BEAUTY'	ALLIUM 'SUMMER BEAUTY'	CONT.	#1	PLANT 1.5' O.C. (GROWS 15"H X 15"W)
PC		ARUNCUS DIOICUS	GOAT'S BEARD	CONT.	#1	PLANT 2.5' O.C. (GROWS 48"H X 48"W)
PD		COREOPSIS 'JETHRO TULL'	COREOPSIS 'JETHRO TULL'	CONT.	#1	PLANT 2.0' O.C. (GROWS 15"H X 18"W)
PE		ECHINACEA PURPUREA 'WHITE SWAN'	CONEFLOWER, WHITE SWAN	CONT.	#1	PLANT 2.0' O.C. (GROWS 30"H X 20"W)
PF		EUPATORIUM	JOE PYE WEED	CONT.	#1	PLANT 2.0' O.C. (GROWS 30"H X 24"W)
PG		HELENIUM 'MARDI GRAS'	SNEEZEWEED	CONT.	#1	PLANT 2.0' O.C. (GROWS 40"H X 25"W)
PH		HEMEROCALLIS 'BARBARY CORSAIR'	DAYLILLY, 'BARBARY CORSAIR'	CONT.	#1	PLANT 2.0' O.C. (GROWS 24"H X 24"W)
PI		HEMEROCALLIS 'HYPERION'	DAYLILLY, 'HYPERION'	CONT.	#1	PLANT 2.0' O.C. (GROWS 40"H X 24"W) deer resistant
PJ		HEMEROCALLIS 'STELLA DE ORO'	DAYLILLY, STELLA DE ORO	CONT.	#1	PLANT 1.5' O.C. (GROWS 15"H X 15"W)
PK		LIATRIS SPICATA 'KOBOLD'	BLAZING STAR	CONT.	#1	PLANT 2.0' O.C. (GROWS 18"H X 18"W)
PL		MONARDA DIDYMA 'FIREBALL'	BEE BALM	CONT.	#1	PLANT 2.0' O.C. (GROWS 16"H X 24"W)
PM		NEPETA X 'FAASENII' WALKER'S LOW'	CATMINT, 'WALKER'S LOW'	CONT.	#1	PLANT 2.0' O.C. (GROWS 24"H X 18"W)
PN		PENSTEMON 'DARK TOWERS'	PENSTEMON DARK TOWERS BEARDED TONGUE	CONT.	#1	PLANT 2.0' O.C. (GROWS 36"H X 24"W)
PO		PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	CONT.	#1	PLANT 2.5' O.C. (GROWS 42"H X 36"W)
PP		RUDBECKIA 'GOLDSTURM'	RUDBECKIA, GOLDSTURM	CONT.	#1	PLANT 2.0' O.C. (GROWS 30"H X 18"W)
PQ		RUDBECKIA SUBTOMENTOSA 'HENRY EILERS'	RUDBECKIA 'HENRY EILERS'	CONT.	#1	PLANT 2.0' O.C. (GROWS 48"H X 24"W)
PR		SALVIA X SUPERBA	SALVIA, 'MAINACHT'	CONT.	#1	PLANT 1.5' O.C. (GROWS 24"H X 18"W)
PS		SEDUM X 'AUTUMN JOY'	SEDUM, 'AUTUMN JOY'	CONT.	#1	PLANT 2.0' O.C. (GROWS 18"H X 18"W)
PT		SOLIDAGO RUGOSA 'FIREWORKS'	GOLDENROD	CONT.	#1	PLANT 2.5' O.C. (GROWS 36"H X 36"W)
	###	PERENNIAL ORNAMENTAL GRASSES				
GA		CALAMAGROSTIS X ACUTIFLORA 'AVALANCHE'	GRASS, AVALANCHE REED		#1	
GB		CALAMAGROSTIS X ACUTIFLORA	GRASS, FEATHER REED 'KARL FOERSTER'	CONT.	#1	PLANT 2.5' OC.
GC		CAREX PENNSYLVANICA	SEDGE, OAK	CONT.	#1	PLANT 1.0' OC.
GD		CAREX VULPINOIDEA	SEDGE, FOX	CONT.	#4	PLANT 2.5' OC.
GE		JUNCUS EFFUSES	GRASS, COMMON RUSH	CONT.	4"	PLANT 2' OC
GF		MISCANTHUS SINENSIS 'PURPURASCENS'	GRASS, MISCANTHUS FLAME	CONT.	#1	PLANT 3' OC.
GG		MISCANTHUS SINENSIS 'ROTSILBER'	GRASS, MISCANTHUS RED SILVER	CONT.	#1	PLANT 3' OC.
GH		MISCANTHUS SINENSIS 'SILBERFEDER'	GRASS, SILVER FEATHER	CONT.	#1	PLANT 3' OC.
GI		PANICUM VIRGATUM 'NORTHWINDS'	GRASS, SWITCH	CONT.	#1	PLANT 2.5' OC.
GJ		PANICUM VIRGATUM 'SHENANDOAH'	GRASS, RED SWITCH	CONT.	#1	PLANT 2.5' OC.
GK		SCHIZACHYRIUM SCOPARIUM	GRASS, LITTLE BLUE STEM	CONT.	#1	PLANT 2.5' OC.
GL		SPOROBOLUS HETEROLEPIS	GRASS, PRAIRIE DROPSEED	CONT.	#1	PLANT 2.5' OC.
	###	VINES				
VA		CELASTRUS SCANDENS 'BAILUMN'	BITTERSWEET	CONT.	#1	PLANT AS INDICATED (GROWS 20'H & W)
VB		LONICERA X BROWNII 'DROPMORE SCARLET'	HONEYSUCKLE, DROPMORE SCARLET	CONT.	#2	PLANT AS INDICATED (GROWS 15'H & W)
VC		LONICERA X BROWNII 'BAILELLE'	HONEYSUCKLE, HONEYBELLE	CONT.	#2	PLANT AS INDICATED (GROWS 15'H & W)
VD		CAMPSIS RADICANS	TRUMPETCREEPER	CONT.	#2	PLANT AS INDICATED (GROWS 20-40')
	####	BULBS & GROUNDCOVER				
BA		ALLIUM 'PURPLE SENSATION'	PURPLE SENSATION ALLIUM	BULB		PLANT 2' O.C.
BB		GALIUM ODORATUM	SWEET WOODRUFF	6 PK		PLANT1' O.C. (QTY LISTED IS QUANTITY OF PLANTS)
BD		NARCISSUS	TRUMPET DAFFODIL	BULB	14-16cm	PLANT 2.0' O.C. IN FALL (GROWS 16"H X 16"W)

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CITY SUBMITTAL
07-02-14

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PLANTING DETAILS & SCHEDULE

CITY PLAN SUBMISSION	07/02/14
CITY PLAN RESUBMISSION	07/18/14

JOB	15567-14050
DRAWN	CE
CHECKED	--

SHEET

L2

1 SITE PHOTOMETRIC PLAN
1" = 20'-0"

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	X1	3	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTB12LEDEUSL4.ies	Absolute	1.00	285
	X2	1	VSTC03LEDEUSL3	(3) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 15FT POLE		VSTC03LEDEUSL3.ies	Absolute	1.00	77
	X3	4	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTB12LEDEUSL4.ies	Absolute	1.00	570
	X4	2	VSTC06LEDEUSL2	(6) 7 LED LIGHT BARS; TYPE 2 WITH SPILL CONTROL; 25FT POLE		VSTC06LEDEUSL2.ies	Absolute	1.00	154
	X5	1	VSTC04LEDEUSL3	(4) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 25FT POLES		VSTC04LEDEUSL3.ies	Absolute	1.00	101
	X6	2	VSTC12LEDEUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTC12LEDEUSL4.ies	Absolute	1.00	606
	X7	2	VSTB12LEDEUT4S	(12) 21 LED LIGHT BARS; TYPE 4; 25 FT POLE		VSTB12LEDEUT4S.ies	Absolute	1.00	285
	X8	1	VSTC05LEDEUSL3	(5) 7 LED LIGHT BATS; TYPE 3 WITH SPILL CONTROL; 25FT POLE		VSTC05LEDEUSL3.ies	Absolute	1.00	131
	X9	1	VSTC12LEDEUSL3	(12) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 15FT POLE		VSTC12LEDEUSL3.ies	Absolute	1.00	303
	X10	3	VSTC12LEDEUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTC12LEDEUSL4.ies	Absolute	1.00	303
	X11	1	VSTB12LEDEUSXO	(12) 21 LED LIGHT BARS; TYPE 5 SQUARE EXTRA WIDE; 25FT POLE		VSTB12LEDEUSXO.ies	Absolute	1.00	285

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
25' Perimeter	+	2.4 fc	9.9 fc	0.4 fc	24.8:1	6.0:1
Parking	+	4.7 fc	16.3 fc	1.2 fc	13.6:1	3.9:1
Entrance	+	4.0 fc	15.2 fc	0.9 fc	16.9:1	4.4:1
Property Line	+	0.8 fc	3.1 fc	0.0 fc	N / A	N / A

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CONSULTANTS

CERTIFICATION

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.

NOT FOR CONSTRUCTION

Signature
Name Electrical Engineer
Date ##/##/##
Registration Number #####

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SITE PHOTOMETRIC PLAN

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Project Number:
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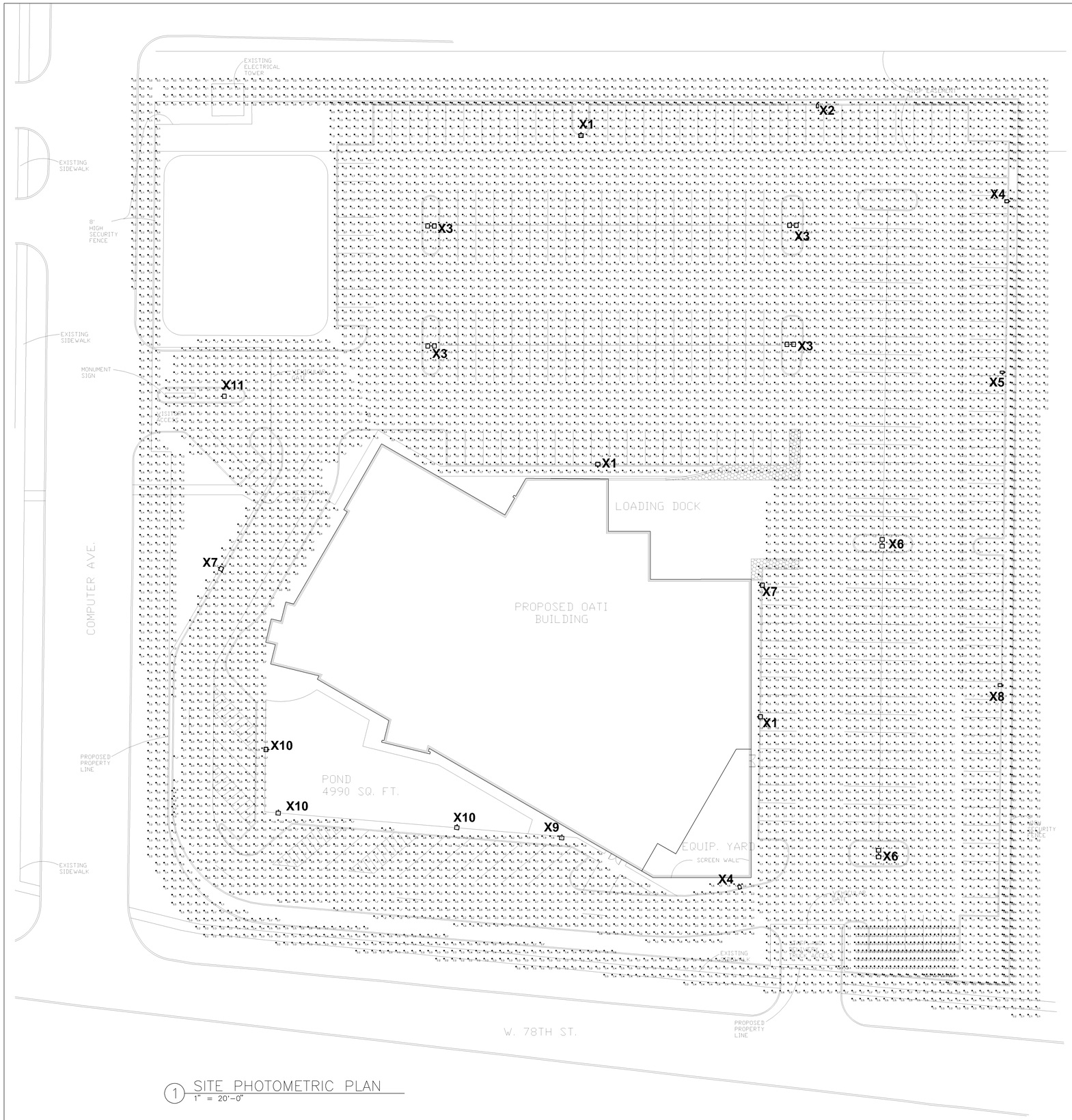

1 SITE PHOTOMETRIC PLAN
1" = 20'-0"

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	X1	3	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTB12LEDEUSL4.ies	Absolute	0.80	285
	X2	1	VST030LEDEUSL3	(3) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 15FT POLE		VST030LEDEUSL3.ies	Absolute	0.80	77
	X3	4	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTB12LEDEUSL4.ies	Absolute	0.80	570
	X4	2	VST060LEDEUSL2	(6) 7 LED LIGHT BARS; TYPE 2 WITH SPILL CONTROL; 25FT POLE		VST060LEDEUSL2.ies	Absolute	0.80	154
	X5	1	VST040LEDEUSL3	(4) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 25FT POLES		VST040LEDEUSL3.ies	Absolute	0.80	101
	X6	2	VSTC12LEDEUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTC12LEDEUSL4.ies	Absolute	0.80	606
	X7	2	VSTB12LEDEUT4S	(12) 21 LED LIGHT BARS; TYPE 4; 25 FT POLE		VSTB12LEDEUT4S.ies	Absolute	0.80	285
	X8	1	VST035LEDEUSL3	(5) 7 LED LIGHT BATS; TYPE 3 WITH SPILL CONTROL; 25FT POLE		VST035LEDEUSL3.ies	Absolute	0.80	131
	X9	1	VSTC12LEDELUSL3	(12) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 15FT POLE		VSTC12LEDEUSL3.ies	Absolute	0.80	303
	X10	3	VSTC12LEDELUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTC12LEDEUSL4.ies	Absolute	0.80	303
	X11	1	VSTB12LEDEUSXQ	(12) 21 LED LIGHT BARS; TYPE 5 SQUARE EXTRA WIDE; 25FT POLE		VSTB12LEDEUSXQ.ies	Absolute	0.80	285

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
25' Perimeter	+	1.9 fc	7.9 fc	0.3 fc	26.3:1	6.3:1
Parking	+	3.6 fc	12.9 fc	0.9 fc	14.3:1	4.2:1
Entrance	+	3.2 fc	12.2 fc	0.8 fc	15.3:1	4.0:1
Property Line	+	0.6 fc	2.5 fc	0.0 fc	N / A	N / A

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Signature
Name Electrical Engineer
Date ##/##/##
Registration Number #####

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SITE PHOTOMETRIC PLAN

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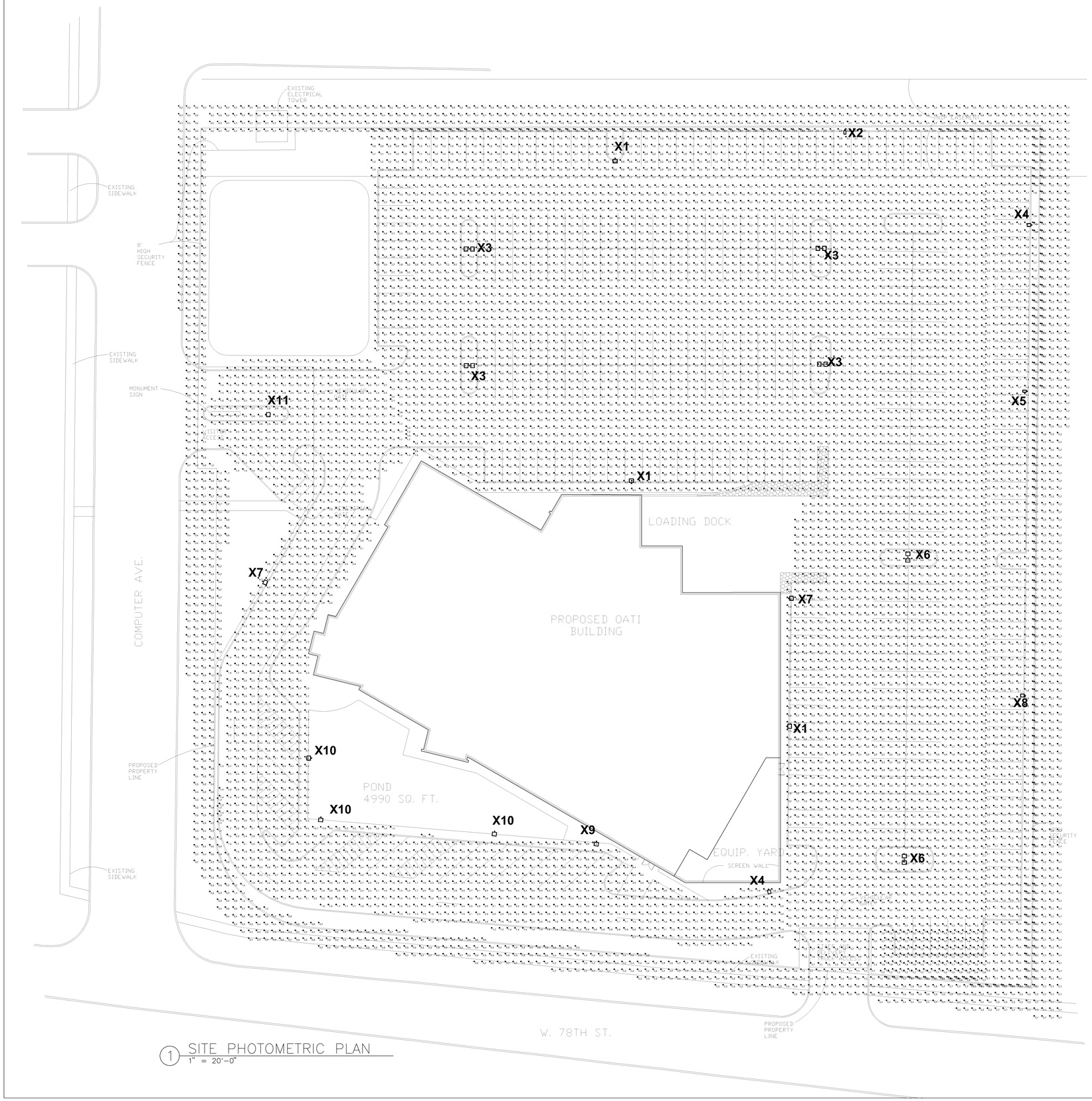

1 SITE PHOTOMETRIC PLAN
1" = 20'-0"

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	X1	3	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTB12LEDE USL4.ies	Absolute	0.70	285
	X2	1	VSTC03LEDEUSL3	(3) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 15FT POLE		VSTC03LEDE USL3.ies	Absolute	0.70	77
	X3	4	VSTB12LEDEUSL4	(12) 21 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTB12LEDE USL4.ies	Absolute	0.70	570
	X4	2	VSTC06LEDEUSL2	(6) 7 LED LIGHT BARS; TYPE 2 WITH SPILL CONTROL; 25FT POLE		VSTC06LEDE USL2.ies	Absolute	0.70	154
	X5	1	VSTC04LEDEUSL3	(4) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 25FT POLES		VSTC04LEDE USL3.ies	Absolute	0.70	101
	X6	2	VSTC13LEDEUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE; 2 HEADS		VSTC13LEDE USL4.ies	Absolute	0.70	606
	X7	2	VSTB12LEDEUT4S	(12) 21 LED LIGHT BARS; TYPE 4; 25 FT POLE		VSTB12LEDE UT4S.ies	Absolute	0.70	285
	X8	1	VSTC05LEDEUSL3	(5) 7 LED LIGHT BATS; TYPE 3 WITH SPILL CONTROL; 25FT POLE		VSTC05LEDE USL3.ies	Absolute	0.70	131
	X9	1	VSTC13LEDEUSL3	(12) 7 LED LIGHT BARS; TYPE 3 WITH SPILL CONTROL; 18FT POLE		VSTC13LEDE USL3.ies	Absolute	0.70	303
	X10	3	VSTC13LEDEUSL4	(12) 7 LED LIGHT BARS; TYPE 4 WITH SPILL CONTROL; 25FT POLE		VSTC13LEDE USL4.ies	Absolute	0.70	303
	X11	1	VSTB12LEDEUSX Q	(12) 21 LED LIGHT BARS; TYPE 5 SQUARE EXTRA WIDE; 25FT POLE		VSTB12LEDE USXQ.ies	Absolute	0.70	285

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
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Entrance	+	2.8 fc	10.6 fc	0.7 fc	15.1:1	4.0:1
Property Line	+	0.5 fc	2.2 fc	0.0 fc	N / A	N / A

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