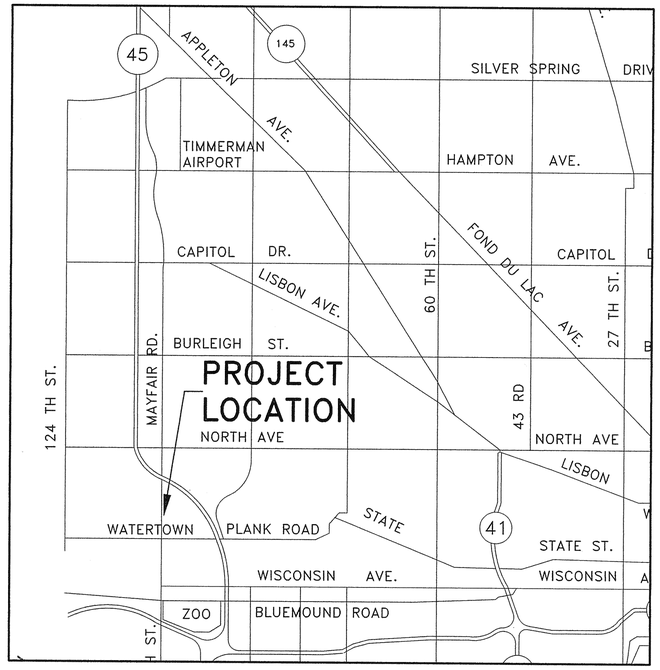


MILWAUKEE COUNTY RESEARCH PARK

10437 INNOVATION DRIVE

LANDSCAPING AT ENTRANCES

0223-13628

6/14/13

ABBREVIATIONS:

ASP	ASPHALT	MH	MANHOLE
CABC	CRUSHED AGGREGATE BASE COURSE	N	NORTHING
CB	CATCH BASIN	O.C.	ON CENTER
C.I.	CAST IRON	PAVT	PAVEMENT
CL	CENTERLINE	PKG	PARKING
CMP	CORUGATED METAL PIPE	PKWY	PARKWAY
CONC	CONCRETE	PROP	PROPOSED
COND	CONDUIT	PVC	POLYVINYL CHLORIDE
DIA.	DIAMETER	R	RADIUS
ELEC	ELECTRICAL	RT	RIGHT
EL	ELEVATION	RCP	REINFORCED CONRETE PIPE
EXST	EXISTING	RD	ROAD
E	EASTING	SAN	SANITARY SEWER
F TO F	FACE TO FACE	SS	STORM SEWER
G	GAS	ST	STREET
G.W.I.	GALVANIZED WROUGHT IRON	STA	STATION
HOR	HORIZONTAL	T	TELEPHONE
HP	HIGH POINT	TYP	TYPICAL
I.E.	INVERT ELEVATION	UD	UNDER DRAIN
LT	LEFT	VERT	VERTICAL
L	LIGHTING CABLE/CONDUIT	W	WATER
MAX	MAXIMUM	WEPCO	WI ELECTRICAL POWER CO
MIN	MINIMUM	X	EXTRA

LEGEND:

EXISTING GAS METER	IRON PIPE (PROPERTY CORNER)
EXISTING TELEPHONE BOX	SURVEY CONTROL POINT
EXISTING TRANSFORMER	BUTT JOINT
EXISTING MANHOLE	SOD AREA
EXISTING LIGHT POLE	PROPOSED LIGHT POLE
EXISTING CATCH BASIN OR INLET	PROPOSED CATCH BASIN
EXISTING FENCE	PROPOSED FENCE
EXISTING PAVEMENT	PROPOSED PAVEMENT
EXISTING CURBFACE	PROPOSED CURBFACE
EXISTING TREE/BUSH LINE	PROPOSED TREE/BUSH LINE
EXISTING CONTOURS	PROPOSED CONTOURS
EXISTING CONIFEROUS TREE	TREE TO BE REMOVED
EXISTING DECIDUOUS TREE	PROPOSED DECIDUOUS TREE
EXISTING STORM SEWER	PROPOSED STORM SEWER
EXISTING WATER LINE	PROPOSED WATER LINE
EXISTING ELECTRIC (BURIED)	PROPOSED ELECTRIC (BURIED)
EXISTING LIGHTING (BURIED)	PROPOSED LIGHTING (BURIED)
EXISTING PROFILE	PROPOSED PROFILE

CONSTRUCTION SITE EROSION CONTROL

1. EROSION CONTROL /SILT FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

2. EROSION CONTROL MEASURES SHALL BE TAKEN WHERE SHOWN ON THE DRAWING OR AS DIRECTED BY THE ENGINEER, EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED AND ACCEPTED BY THE OWNER IN ALL DISTURBED TURF AREAS.

3. EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.

4. COMPLY WITH ALL LOCAL AND STATE EROSION CONTROL ORDINANCES.

5. EROSION CONTROL MEASURES SHALL BE TAKEN AT EACH INLET STRUCTURE WHICH DRAINS STORM WATER AFFECTED BY THIS PROJECT.

6. TOPSOIL STOCKPILE LOCATION SHALL BE WITHIN AREA PROTECTED BY EROSION AND SEDIMENT CONTROL MEASURES AND APPROVED BY OWNER.

GENERAL NOTES

1. APPLICATION SPECIFICATIONS – STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2008 EDITION, WITH AMMENDMENTS TO DATE, AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN UNLESS OTHERWISE NOTED.

2. CONTRACTOR SHALL CALL DIGGERS HOTLINE ((800) 242-8511) FOR UTILITIES LOCATION PRIOR TO START OF CONSTRUCTION.

3. ALL INFORMATION SHOWN ON EXISTING CONDITIONS IS BASED ON RECORDS AVAILABLE TO MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AS OF MAY 2013, ALTHOUGH THE COUNTY IN NO WAY GUARANTEES THE INFORMATION AS BEING ENTIRELY ACCURATE IN THE EVENT PERSONS PERFORMING WORK FOR MILWAUKEE COUNTY SHOULD ENCOUNTER ERRORS OR OMISSIONS IN THESE DRAWINGS DURING CONSTRUCTION OF THIS PROJECT, IT SHALL BE THEIR RESPONSIBILITY TO INFORM THE COUNTY AS SOON AS POSSIBLE.

4. ALL ELEVATIONS ON THESE DRAWINGS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

5. ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 83 (2007).

6. EXISTING SIGNS AFFECTED BY CONSTRUCTION SHALL BE PROTECTED OR RELOCATED AS DIRECTED BY THE ENGINEER.

7. CONTRACTOR SHALL PROTECT ALL TREES NOT SHOWN FOR REMOVAL.

8. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS.

DRAWING INDEX:

COVER SHEET	1 OF 15
TREE REMOVALS	2-3 OF 15
GRADING PLAN	4-6 OF 15
RETAINING WALLS	7-9 OF 15
LANDSCAPING	L1-L4 OF 15
IRRIGATION	14-15 OF 15

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

RECOMMENDED FOR APPROVAL BY: DIRECTOR - (owner dept.) DATE 6/18/13

PROJECT APPROVAL BY DIRECTOR-DAS DATE 6/17/13

PROJECT MANAGER REVIEW BY: DATE 6/14/13

UNIT MANAGER REVIEW BY: DATE 6/14/13

REVISIONS:

BUILDING NO. 5290

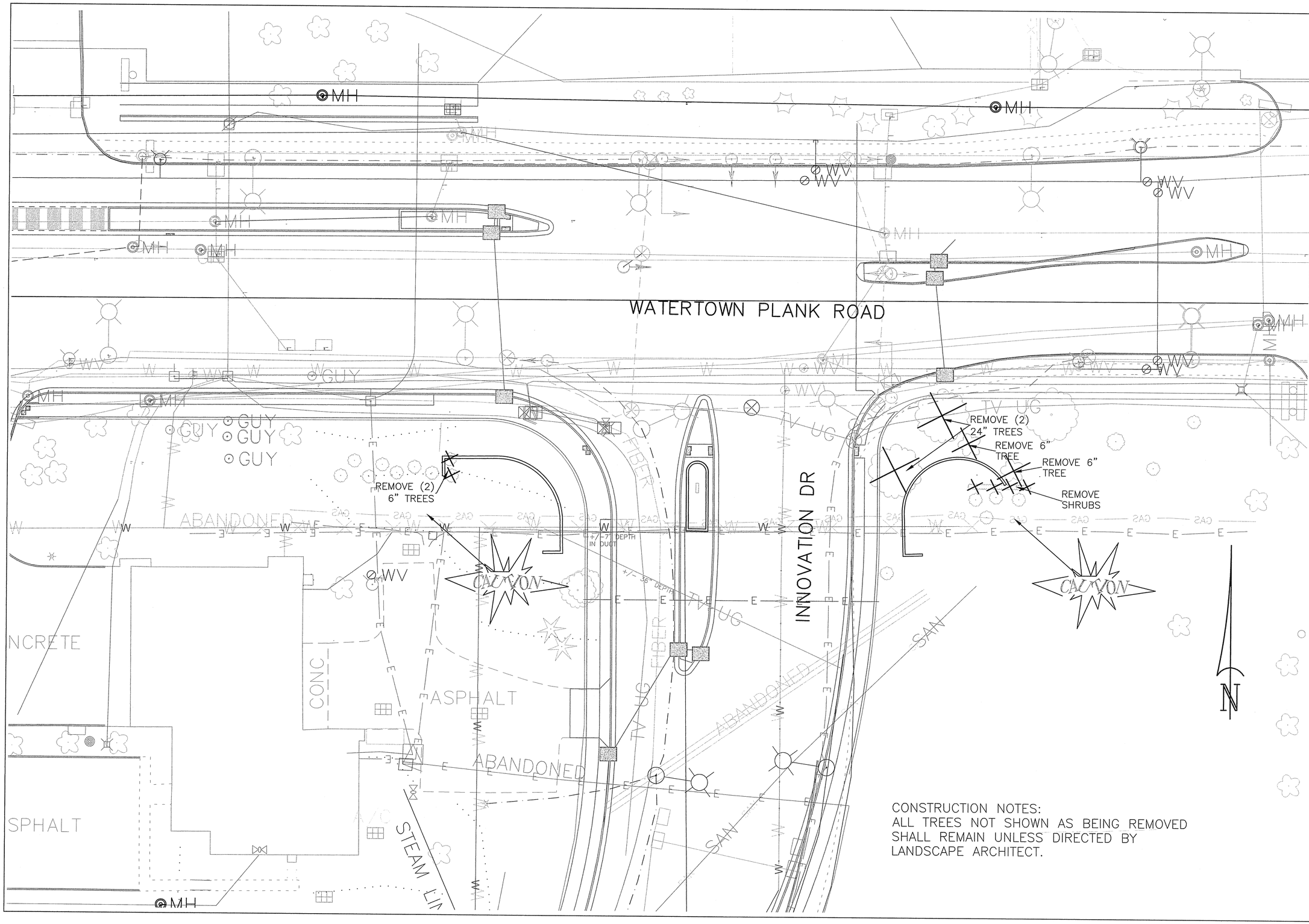
SITE NO. 380

PROJECT NO. 0223-13628

SHEET NO. 1 OF 15

FILE NO.

H:\CADD\223-13628\13628_COVERSHEET

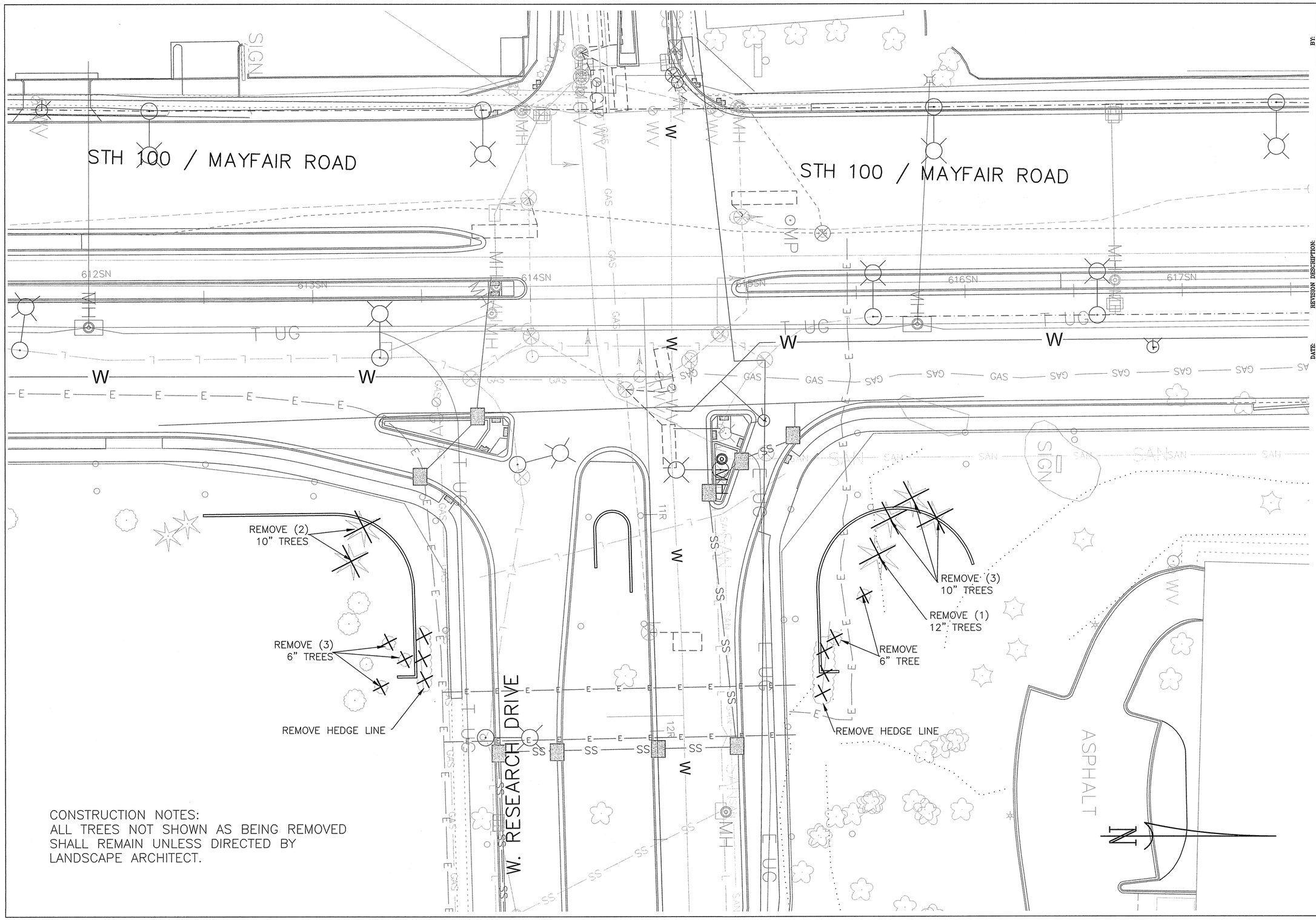


CONSTRUCTION NOTES:
ALL TREES NOT SHOWN AS BEING REMOVED SHALL REMAIN UNLESS DIRECTED BY LANDSCAPE ARCHITECT.

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: DSG	CHECKED BY: KDS
SCALE: 1" = 20'	DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: INNOVATION DRIVE TREE REMOVALS
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 2 OF 15	2
	FILE NO.



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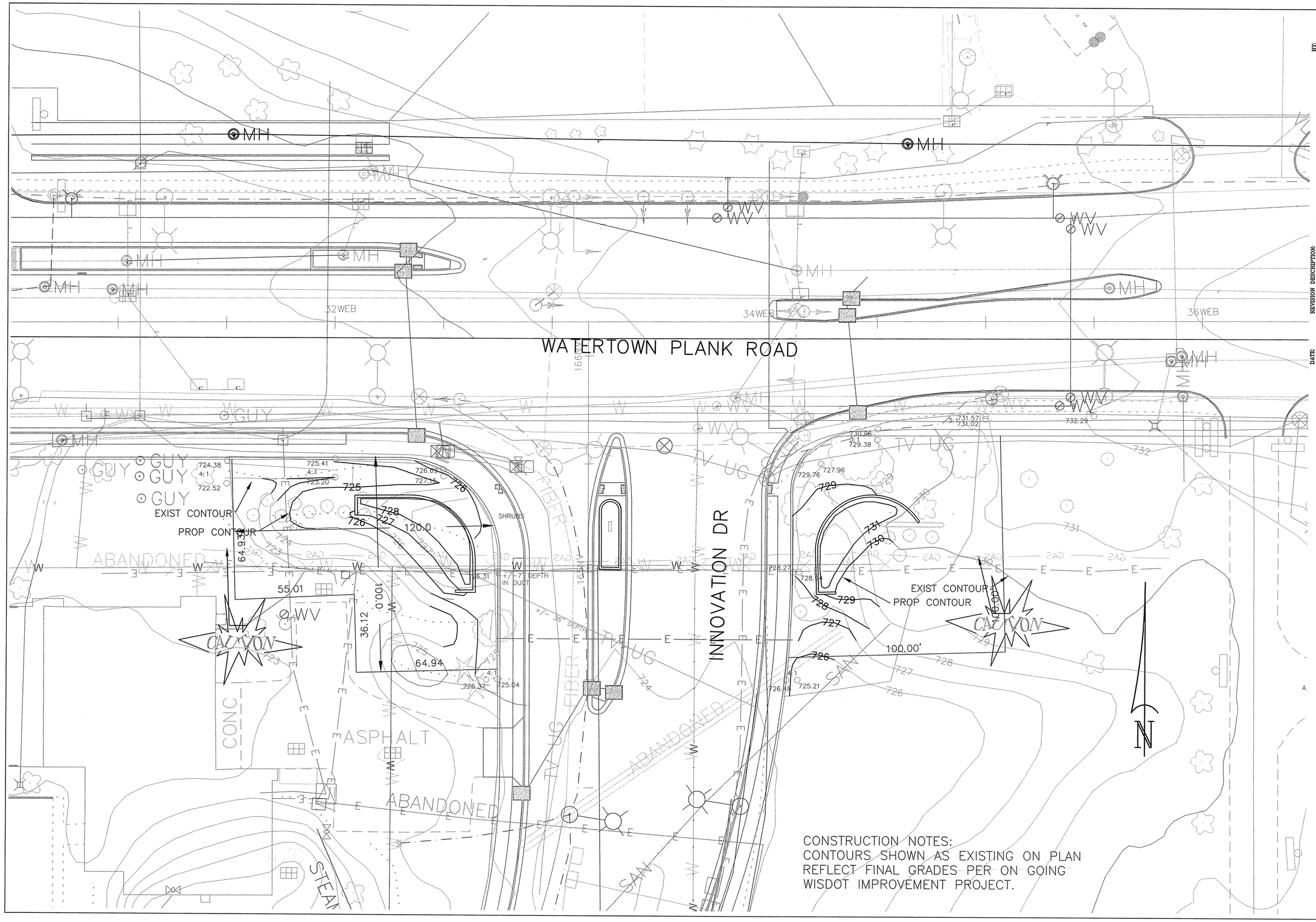
DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 20'	DRAWN BY: DSG
DATE: 6/14/13	CHECKED BY: KDS
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	
SHEET DESCRIPTION: RESEARCH DRIVE TREE REMOVALS	
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 3 OF 15	FILE NO. 3

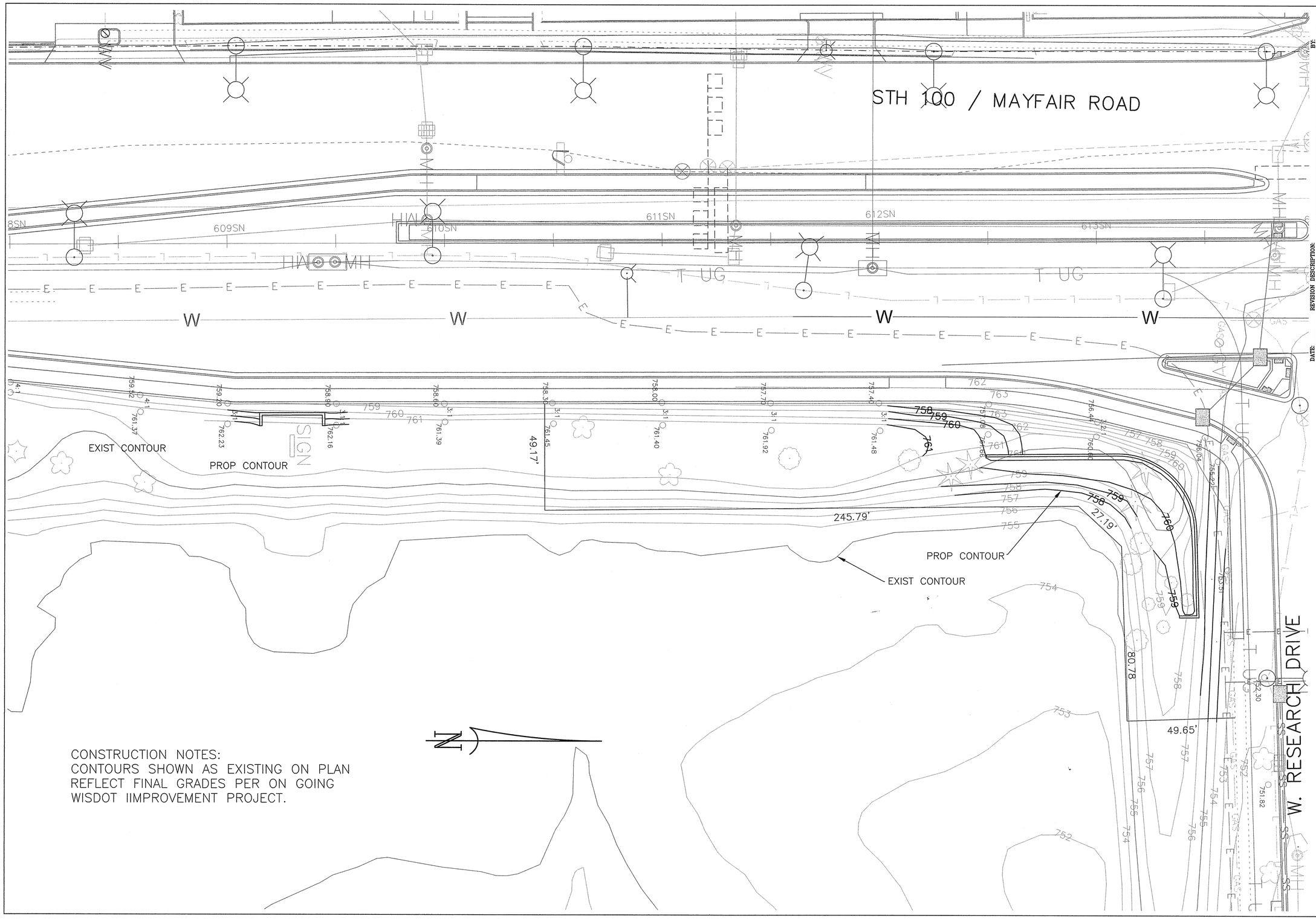


CONSTRUCTION NOTES:
CONTOURS SHOWN AS EXISTING ON PLAN REFLECT FINAL GRADES PER ON GOING WISDOT IMPROVEMENT PROJECT.

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 20'	DRAWN BY: DSG
DATE: 6/14/13	CHECKED BY: KDS
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: INNOVATION DRIVE GRADING PLAN
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 4 OF 15	FILE NO. 4

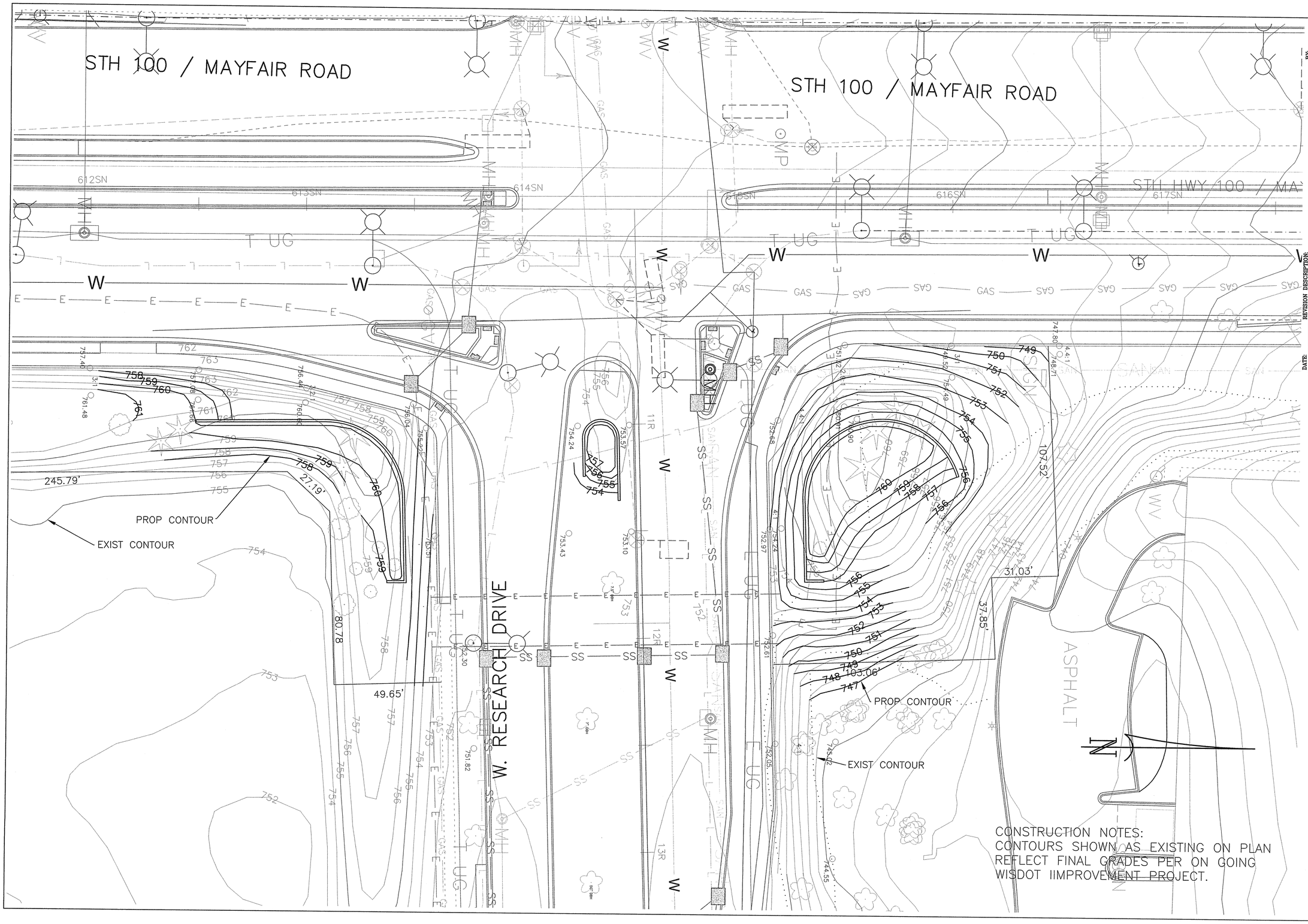


CONSTRUCTION NOTES:
CONTOURS SHOWN AS EXISTING ON PLAN REFLECT FINAL GRADES PER ON GOING WISDOT IIMPROVEMENT PROJECT.

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 20'	DRAWN BY: DSG
DATE: 6/14/13	CHECKED BY: KDS
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	
SHEET DESCRIPTION: RESEARCH DRIVE GRADING PLAN	
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 5 OF 15	5
FILE NO.	

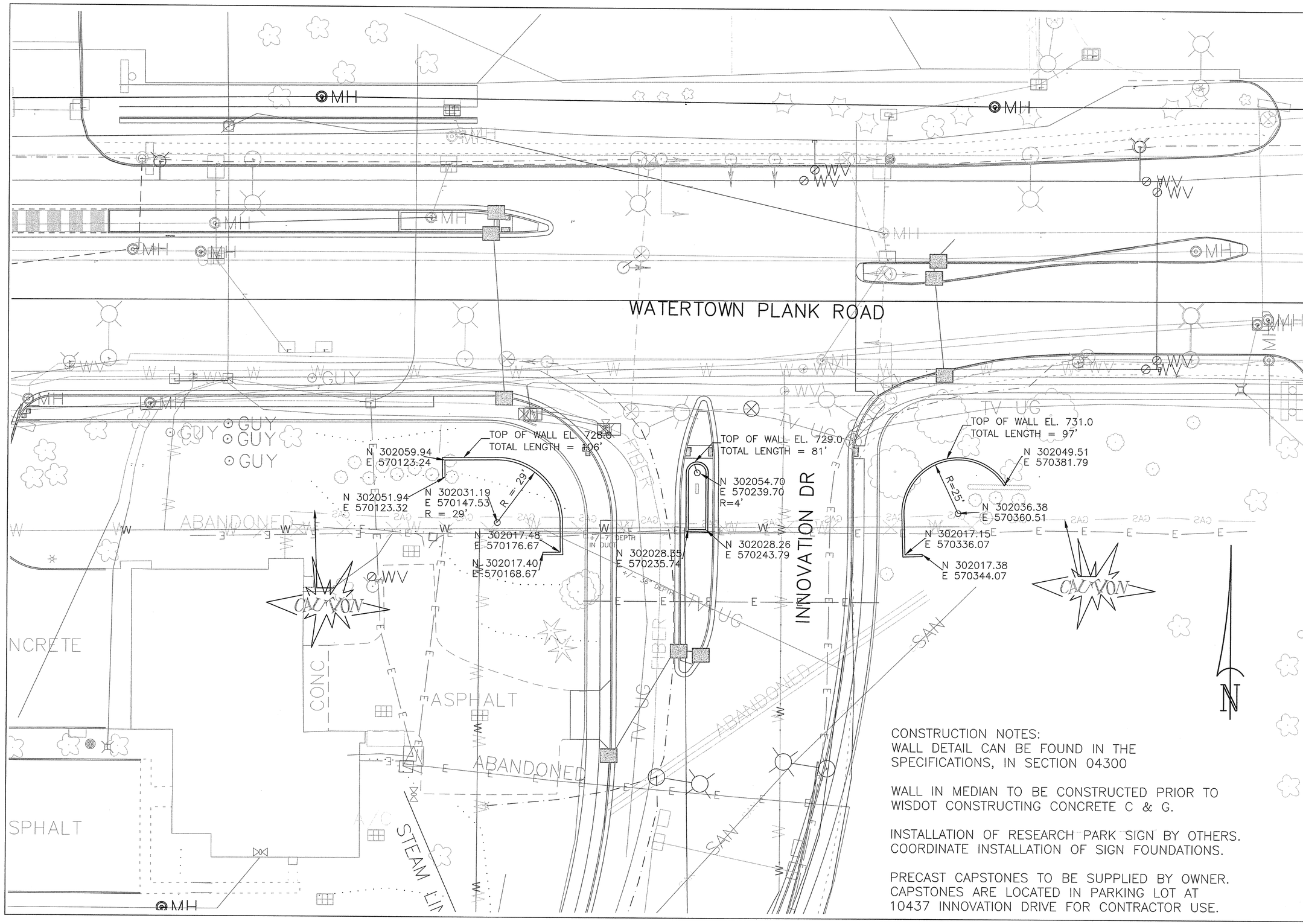


CONSTRUCTION NOTES:
CONTOURS SHOWN AS EXISTING ON PLAN REFLECT FINAL GRADES PER ON GOING WISDOT IIMPROVEMENT PROJECT.

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 20'	DRAWN BY: DSG
DATE: 6/14/13	CHECKED BY: KDS
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: RESEARCH DRIVE GRADING PLAN
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 6 OF 15	FILE NO. 6



CONSTRUCTION NOTES:
WALL DETAIL CAN BE FOUND IN THE SPECIFICATIONS, IN SECTION 04300

WALL IN MEDIAN TO BE CONSTRUCTED PRIOR TO WISDOT CONSTRUCTING CONCRETE C & G.

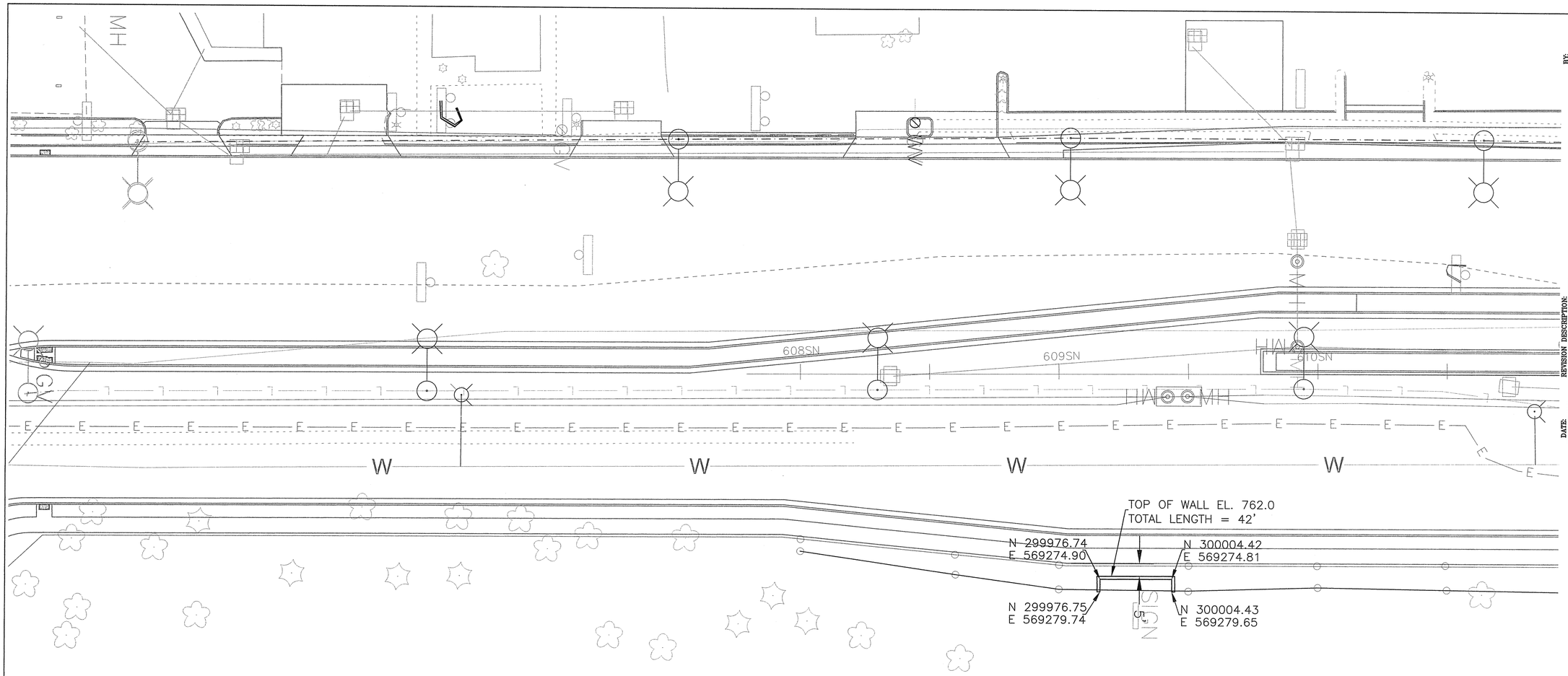
INSTALLATION OF RESEARCH PARK SIGN BY OTHERS. COORDINATE INSTALLATION OF SIGN FOUNDATIONS.

PRECAST CAPSTONES TO BE SUPPLIED BY OWNER. CAPSTONES ARE LOCATED IN PARKING LOT AT 10437 INNOVATION DRIVE FOR CONTRACTOR USE.

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: DSG	CHECKED BY: KDS
SCALE: 1" = 20'	DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: INNOVATION DRIVE RETAINING WALL
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 7 OF 15 7	FILE NO.



CONSTRUCTION NOTES:
WALL DETAIL CAN BE FOUND IN THE SPECIFICATIONS, IN SECTION 04300.

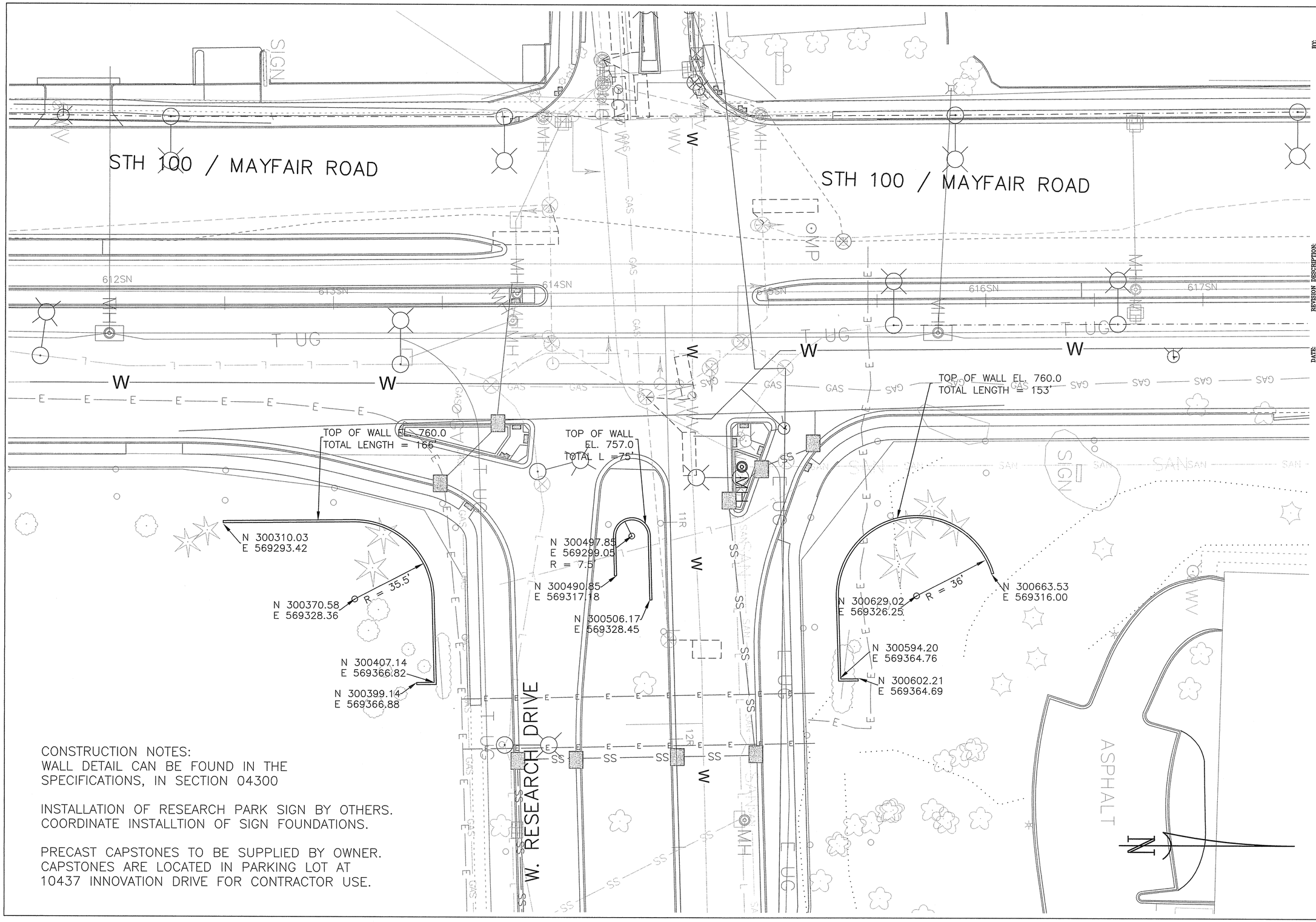
PRECAST CAPSTONES TO BE SUPPLIED BY OWNER. CAPSTONES ARE LOCATED IN PARKING LOT AT 10437 INNOVATION DRIVE FOR CONTRACTOR USE.

N

DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 20'	DRAWN BY: DSG
DATE: 6/14/13	CHECKED BY: KDS
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: RESEARCH DRIVE RETAINING WALL
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 8 OF 15	FILE NO. 8



CONSTRUCTION NOTES:
WALL DETAIL CAN BE FOUND IN THE SPECIFICATIONS, IN SECTION 04300

INSTALLATION OF RESEARCH PARK SIGN BY OTHERS. COORDINATE INSTALLTION OF SIGN FOUNDATIONS.

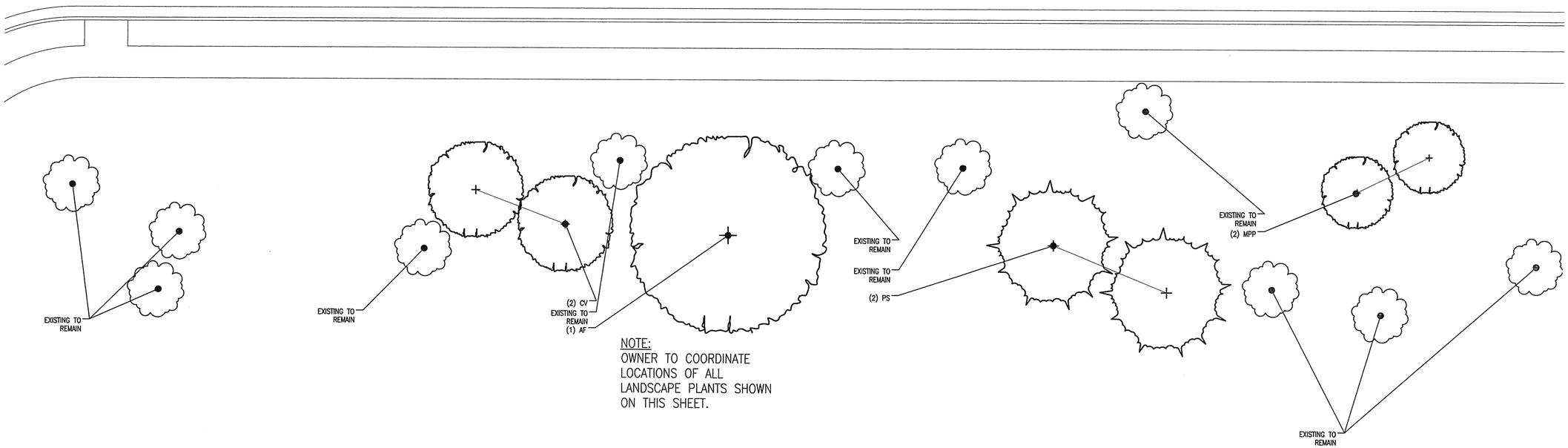
PRECAST CAPSTONES TO BE SUPPLIED BY OWNER. CAPSTONES ARE LOCATED IN PARKING LOT AT 10437 INNOVATION DRIVE FOR CONTRACTOR USE.

DATE: | REVISION DESCRIPTION: | BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: DSG	CHECKED BY: KDS
SCALE: 1" = 20'	DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: RESEARCH DRIVE RETAINING WALL
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. 9 OF 15	FILE NO. 9

STH 100 / MAYFAIR ROAD



NOTE:
OWNER TO COORDINATE LOCATIONS OF ALL LANDSCAPE PLANTS SHOWN ON THIS SHEET.

1 LANDSCAPE PLAN
SOUTH MAYFAIR ROAD
SCALE: 1" = 10'-0"

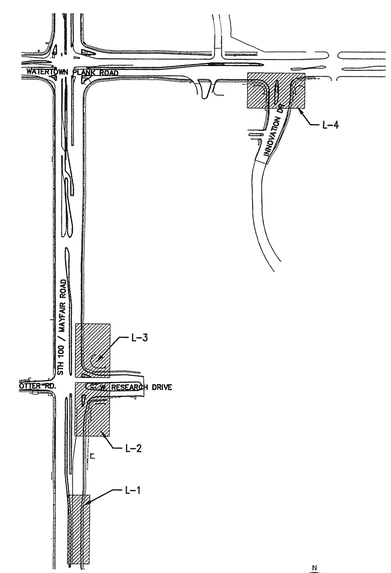
PLANT LIST

KEY	QUANTITY / SPACING	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
PC	3	PYRUS CALLERYANA 'CLEVELAND SELECT'	CLEVELAND SELECT PEAR	2.5" CAL.	B/B
SR	28	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	2" CAL.	B/B
BN	8	BETULA NIGRA	RIVER BIRCH (CLUMP FORM)	8'–10'	B/B
MA	8	MALUS 'ADAMS'	ADAMS FLOWERING CRAB	1.5" CAL.	B/B
JC	58	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT'	KALLAYS COMPACT JUNIPER	18"–24"	C.G.
SP	87	SYRINGA PATULA 'MISS KIM'	MISS KIM LILAC	18–24"	C.G.
RR	214	ROSA RUGOSA 'ALBA'	WHITE RUGOSA ROSE	15"–18"	C.G.
CA	165	COTONEASTER APICULATA	CRANBERRY COTONEASTER	12"–15"	C.G.
HSD	18" O.C.	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILLY	1 GAL.	C.G.
EP	24" O.C.	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR PURPLE CONEFLOWER	1 GAL.	C.G.
PA	24" O.C.	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	1 GAL.	C.G.
SJ	49	SPIRAEA JAPONICA 'FROEBELII'	FROEBEL SPIREA	18"–24"	C.G.
DL	19	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	15"–18"	C.G.
SH	24" O.C.	SEDUM 'HERBSFREUDE'	AUTUMN JOY SEDUM	1 GAL.	C.G.
NF	18" O.C.	NEPETA X FAASENII 'WALKER'S LOW'	'WALKER'S LOW CATMINT	1 GAL.	C.G.
PG	5	PICEA GLAUCA VAR. DENSATA	BLACK HILLS SPRUCE	8'–10'	B/B
PS	2	PINUS SYLVESTRIS	SCOTCH PINE	8'–10'	B/B
AF	1	ACER X FREEMANII 'JEFFERSRED'	AUTUMN BLAZE MAPLE	3" CAL.	B/B
CV	2	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2.5" CAL	B/B
MPP	2	MALUS 'PURPLE PRINCE'	PURPLE PRINCE FLOWER CRAB	2.5" CAL.	B/B
RA	30	RHUS AROMATICA 'GRO–LOW'	GRO–LOW SUMAC	15"	C.G.

*QUANTITIES SHOWN ON PLANT LIST ARE TOTAL QUANTITIES FOR ALL LANDSCAPE AREAS

GENERAL LANDSCAPE NOTES:

1. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR PAVING TYPES AND LOCATIONS.
2. REFER TO CIVIL AND PLUMBING PLANS FOR UNDERGROUND SITE PLUMBING WORK AND ASSUMED LOCATIONS OF UNDERGROUND UTILITIES. CONTACT DIGGERS HOT LINE AND HAVE SITE MARKED PRIOR TO ANY DIGGING.
3. LANDSCAPING CONTRACTOR TO VERITY ALL QUANTITIES SHOWN ON PLAN PRIOR TO BIDDING AND INSTALLATION.
4. ALL PLANTING SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1 –MOST CURRENT EDITION AND AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS, ANSI A300 – MOST CURRENT EDITION. ANY PLANT SUBSTITUTION MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. ALL PLANTS MUST BE INSTALLED AS PER SIZES SHOWN ON PLAN.
5. ALL SHRUB BEDS RECEIVE A 2–3" LAYER OF SHREDDED HARDWOOD BARK MULCH (OR BROWN ENVIROMULCH) OVER TOPSOIL AS NOTED BELOW. EDGE ALL BEDLINES WITH A 4" DEEP SHOVEL SPADED EDGE.
6. PLACE TOPSOIL AFTER CIVIL ENGINEER/ARCHITECT HAS ACCEPTED SUBGRADE. SPREAD TOPSOIL IN UNIFORM LAYERS NOT EXCEEDING 6 INCHES, OVER UNFROZEN SUBGRADE FREE OF STANDING WATER. FOR SODDED AREAS, KEEP TOPSOIL 2–4 INCHES BELOW FINISHED GRADE. SPREAD TOPSOIL AS INDICATED TO FOLLOWING MINIMUM DEPTHS AFTER SETTLEMENT AND 80% COMPACTION:
   a. 4 INCHES FOR SEEDED AREAS.
   b. 4 INCHES FOR SODDED AREAS.
   c. 6 INCHES FOR FLOWER BEDS.
   d. 18 INCHES FOR SHRUB BEDS.
7. MANUALLY SPREAD TOPSOIL/PLANTING SOIL AROUND TREES, SHRUBS AND OBSTACLES.
8. PROVIDE WEED CONTROL BARRIERS AT ALL PLANTING BEDS CONSISTING OF NON–WOVEN GEOTEXTILE FILTER FABRIC OR COMPOSITE FABRIC.
9. APPLY PRE–EMERGENT AND POST–EMERGENT PESTICIDES AND OTHER CHEMICAL PRODUCTS AND BIOLOGICAL CONTROL AGENTS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
10. ALL PLANTINGS TO BE WATERED AT TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED. TREES AND SHRUBS TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM DATE OF INSTALLATION.
11. PROVIDE AN INITIAL MAINTENANCE SERVICE FOR TREES AND SHRUBS FOR A PERIOD OF 12 MONTHS FROM THE DATE OF PLANTING COMPLETION. PROVIDE AN INITIAL MAINTENANCE SERVICE FOR GROUND COVER AND OTHER PLANTS FOR A PERIOD OF 6 MONTHS FROM DATE OF PLANTING COMPLETION.



2 KEY PLAN
SCALE: NOT TO SCALE

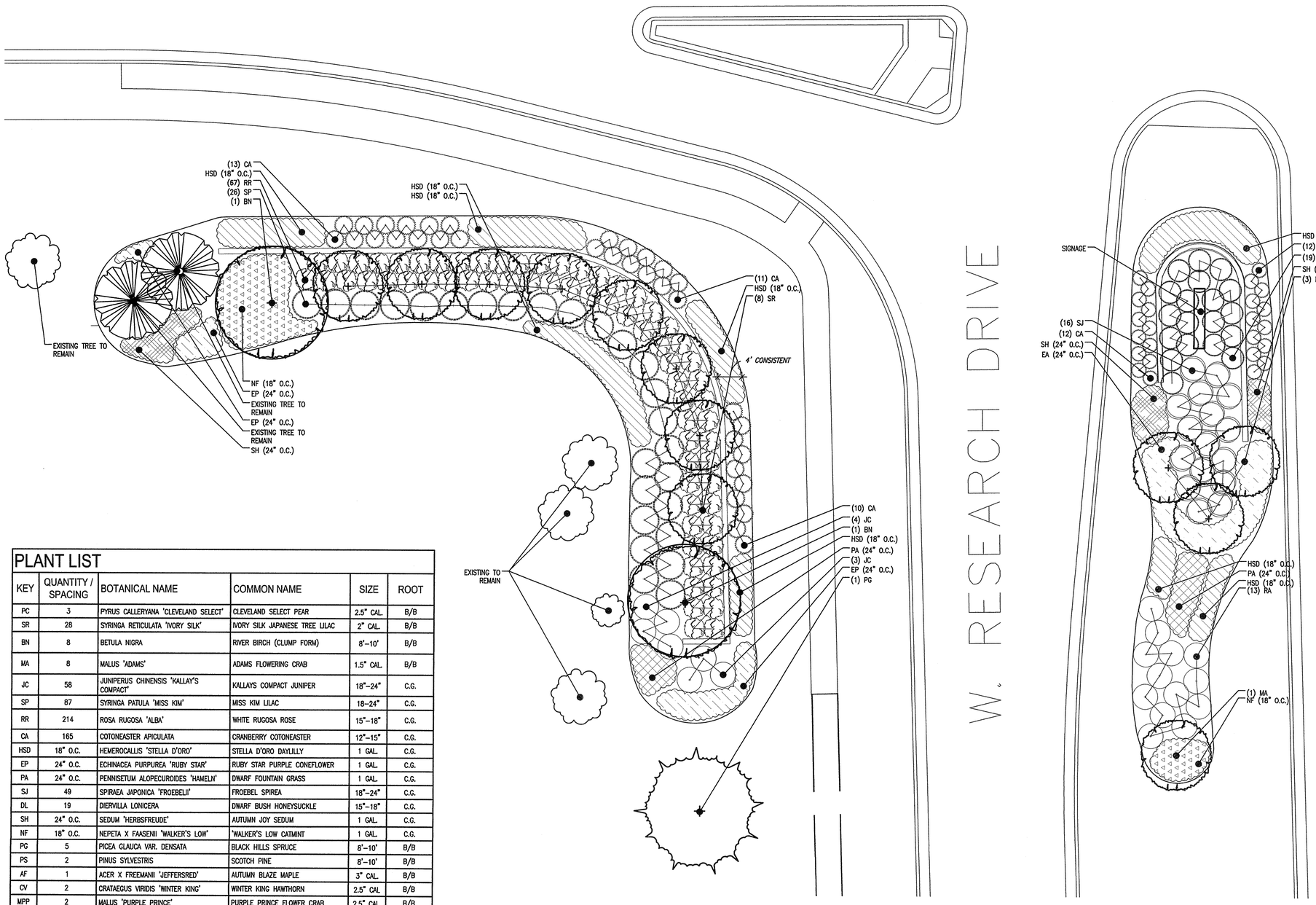
Quorum Architects, Inc.
3112 West Highland Boulevard
Milwaukee, Wisconsin 53208
Phone: 414.265.9265
Fax: 414.265.9465
www.quorumarchitects.com

DATE:	REVISION DESCRIPTION:	BY:

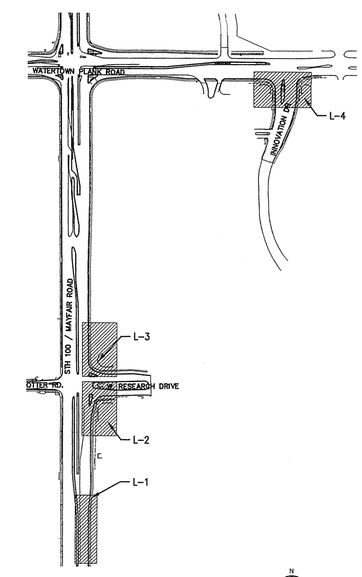
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI. 53208

SCALE: 1" = 10'	DRAWN BY: AB
DATE: 6/14/13	CHECKED BY: J.S.
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	
SHEET DESCRIPTION: LANDSCAPE PLAN	
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. L–1	FILE NO.

STH 100 / MAYFAIR ROAD



1 LANDSCAPE PLAN AT RESEARCH DRIVE (SOUTH)
SCALE: 1" = 10'-0"



2 KEY PLAN
SCALE: NOT TO SCALE

PLANT LIST

KEY	QUANTITY / SPACING	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
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BN	8	BETULA NIGRA	RIVER BIRCH (CLUMP FORM)	8'–10'	B/B
MA	8	MALUS 'ADAMS'	ADAMS FLOWERING CRAB	1.5" CAL.	B/B
JC	58	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT'	KALLAYS COMPACT JUNIPER	18"–24"	C.G.
SP	87	SYRINGA PATULA 'MISS KIM'	MISS KIM LILAC	18–24"	C.G.
RR	214	ROSA RUGOSA 'ALBA'	WHITE RUGOSA ROSE	15"–18"	C.G.
CA	165	COTONEASTER APICULATA	CRANBERRY COTONEASTER	12"–15"	C.G.
HSD	18" O.C.	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILLY	1 GAL.	C.G.
EP	24" O.C.	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR PURPLE CONEFLOWER	1 GAL.	C.G.
PA	24" O.C.	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	1 GAL.	C.G.
SJ	49	SPIRAEA JAPONICA 'FROEBELII'	FROEBEL SPIREA	18"–24"	C.G.
DL	19	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	15"–18"	C.G.
SH	24" O.C.	SEDUM 'HERBSFREUDE'	AUTUMN JOY SEDUM	1 GAL.	C.G.
NF	18" O.C.	NEPETA X FAASENII 'WALKER'S LOW'	'WALKER'S LOW CATMINT	1 GAL.	C.G.
PG	5	PICEA GLAUCA VAR. DENSATA	BLACK HILLS SPRUCE	8'–10'	B/B
PS	2	PINUS SYLVESTRIS	SCOTCH PINE	8'–10'	B/B
AF	1	ACER X FREEMANII 'JEFFERSRED'	AUTUMN BLAZE MAPLE	3" CAL.	B/B
CV	2	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2.5" CAL	B/B
MPP	2	MALUS 'PURPLE PRINCE'	PURPLE PRINCE FLOWER CRAB	2.5" CAL.	B/B
RA	30	RHUS AROMATICA 'GRO–LOW'	GRO–LOW SUMAC	15"	C.G.

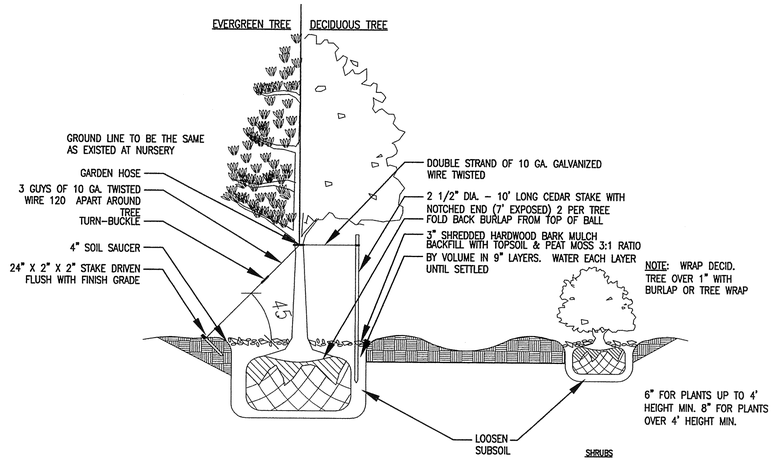
*QUANTITIES SHOWN ON PLANT LIST ARE TOTAL QUANTITIES FOR ALL LANDSCAPE AREAS

Quorum Architects, Inc.
3112 West Highland Boulevard
Milwaukee, Wisconsin 53208
Phone: 414.265.9265
Fax: 414.265.9465
www.quorumarchitects.com

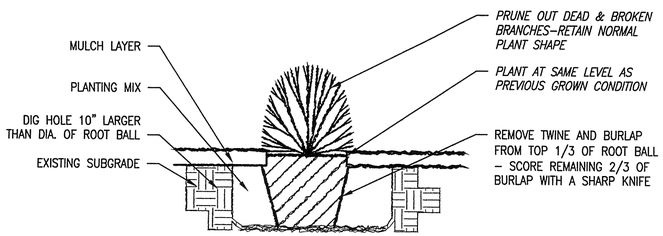
DATE:	REVISION DESCRIPTION:	BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: AB	CHECKED BY: J.S.
SCALE: 1" = 10'	DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: LANDSCAPE PLAN
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223–13628	
SHEET NO. L–2	FILE NO.



1 PLANTING DETAILS TREES & SHRUBS
SCALE: NOT TO SCALE



2 PLANTING SHRUB DETAILS
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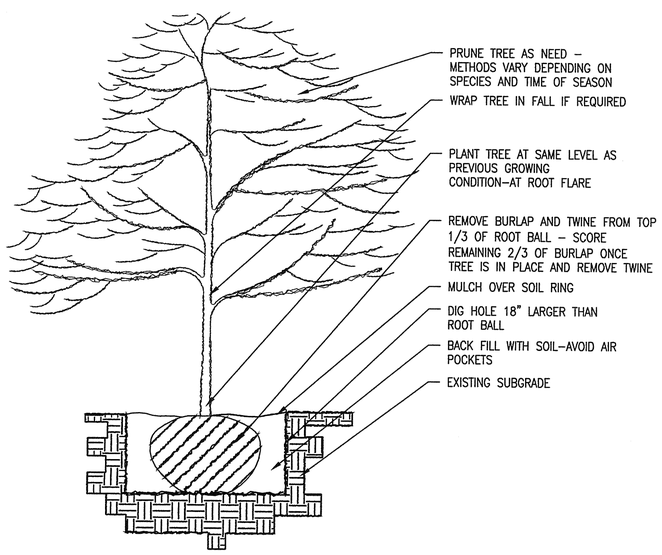
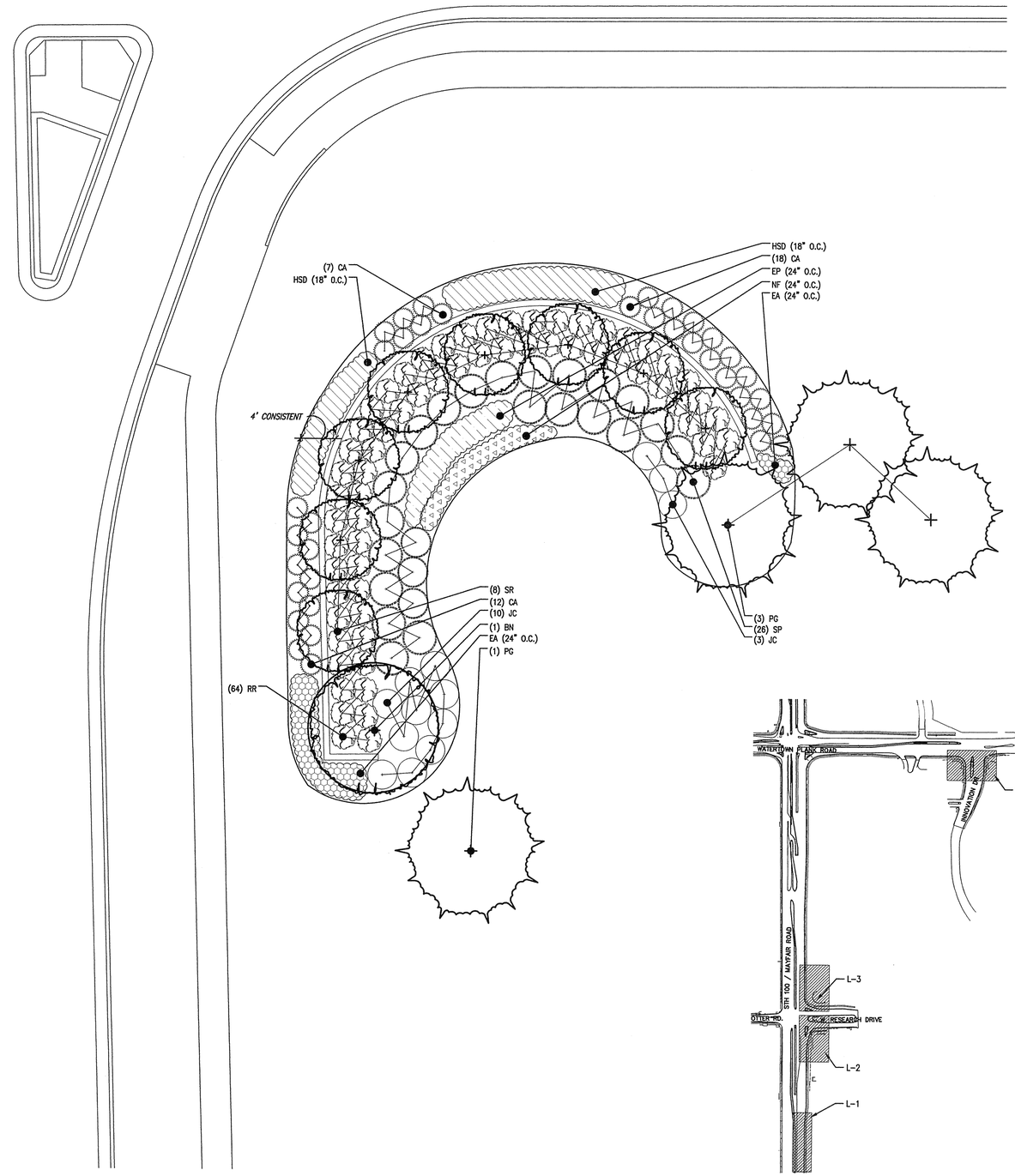
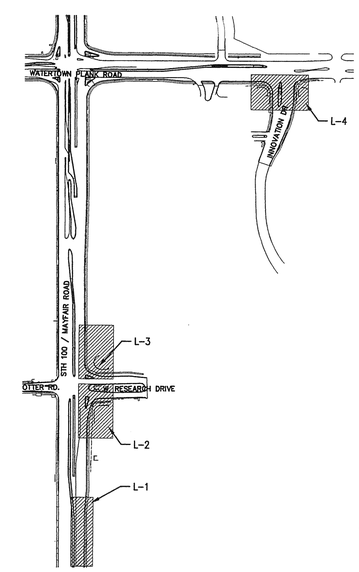


3 PLANTING TREE DETAILS
SCALE: NOT TO SCALE



4 LANDSCAPE PLAN AT RESEARCH DRIVE (NORTH)
SCALE: 1" = 10'-0"



5 KEY PLAN
SCALE: NOT TO SCALE

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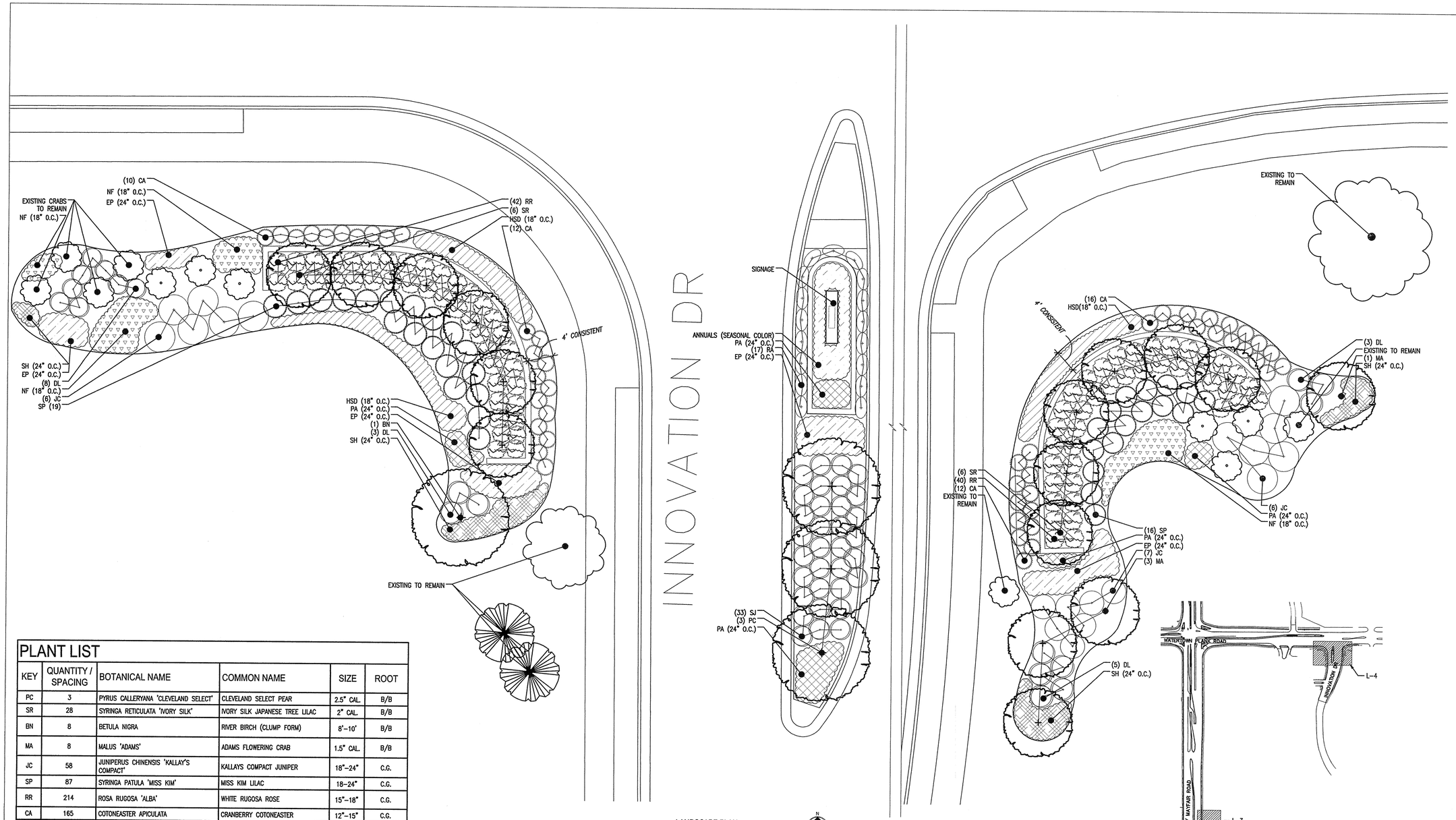
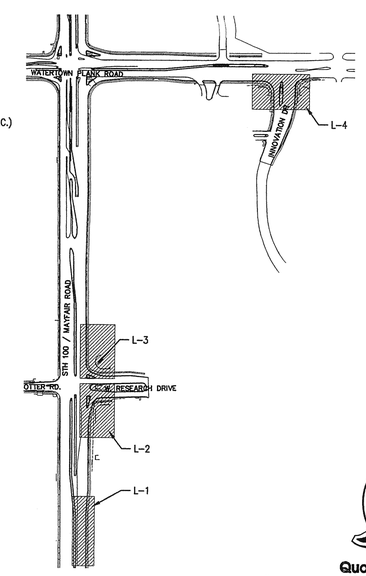
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

SCALE: 1" = 10'	DRAWN BY: AB
DATE: 6/14/13	CHECKED BY: J.S.
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: LANDSCAPE PLAN
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. L-3	FILE NO.



1 LANDSCAPE PLAN AT INNOVATION DRIVE
SCALE: 1" = 10'-0"



2 KEY PLAN
SCALE: NOT TO SCALE

PLANT LIST

KEY	QUANTITY / SPACING	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
PC	3	PYRUS CALLERYANA 'CLEVELAND SELECT'	CLEVELAND SELECT PEAR	2.5" CAL.	B/B
SR	28	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	2" CAL.	B/B
BN	8	BETULA NIGRA	RIVER BIRCH (CLUMP FORM)	8'-10'	B/B
MA	8	MALUS 'ADAMS'	ADAMS FLOWERING CRAB	1.5" CAL.	B/B
JC	58	JUNIPERUS CHINENSIS 'KALLAY'S COMPACT'	KALLAYS COMPACT JUNIPER	18"-24"	C.G.
SP	87	SYRINGA PATULA 'MISS KIM'	MISS KIM LILAC	18-24"	C.G.
RR	214	ROSA RUGOSA 'ALBA'	WHITE RUGOSA ROSE	15"-18"	C.G.
CA	165	COTONEASTER APICULATA	CRANBERRY COTONEASTER	12"-15"	C.G.
HSD	18" O.C.	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DAYLILLY	1 GAL.	C.G.
EP	24" O.C.	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR PURPLE CONEFLOWER	1 GAL.	C.G.
PA	24" O.C.	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	1 GAL.	C.G.
SJ	49	SPIRAEA JAPONICA 'FROEBELII'	FROEBEL SPIREA	18"-24"	C.G.
DL	19	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	15"-18"	C.G.
SH	24" O.C.	SEDUM 'HERBSFREUDE'	AUTUMN JOY SEDUM	1 GAL.	C.G.
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PG	5	PICEA GLAUCA VAR. DENSATA	BLACK HILLS SPRUCE	8'-10'	B/B
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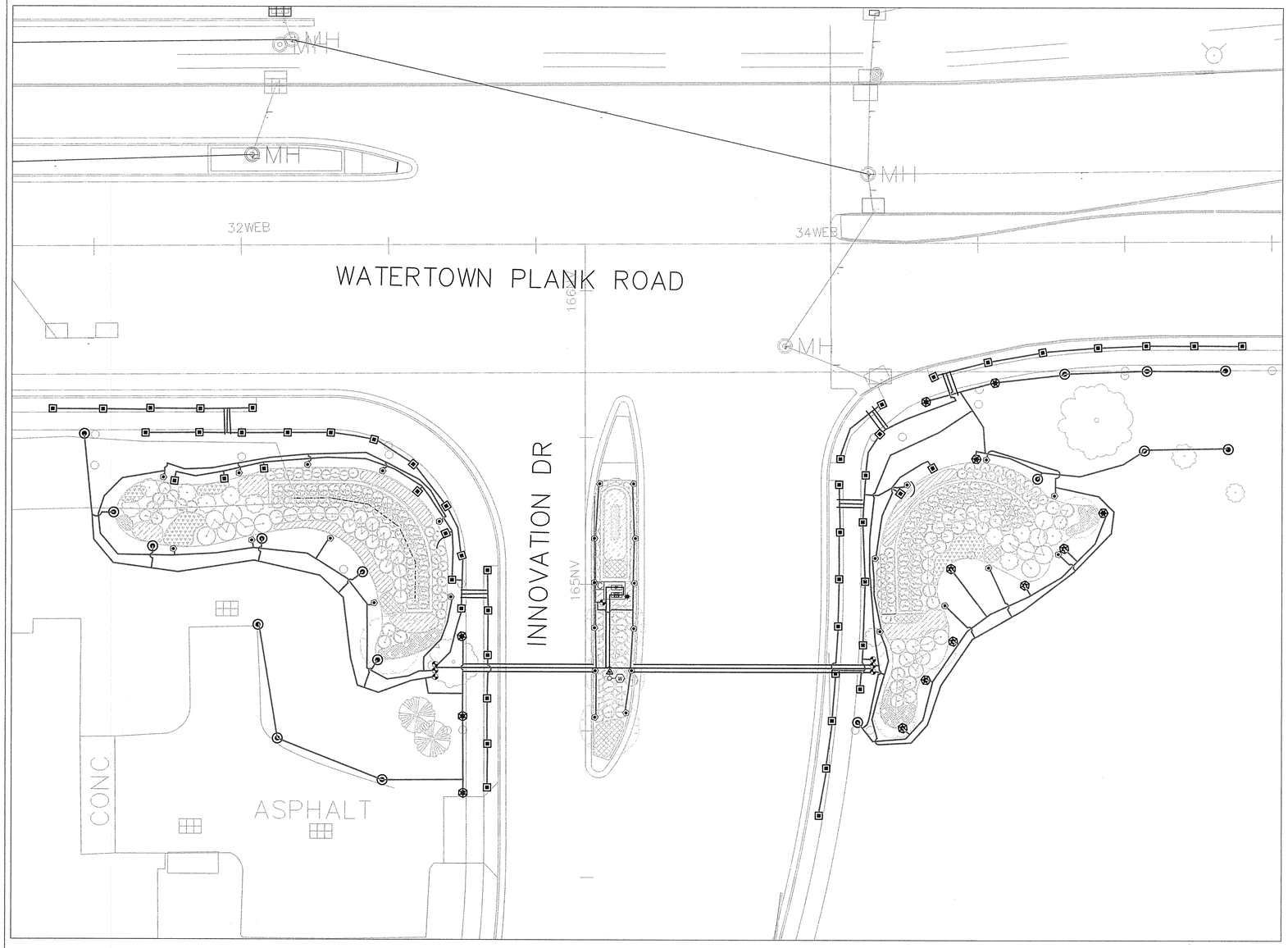
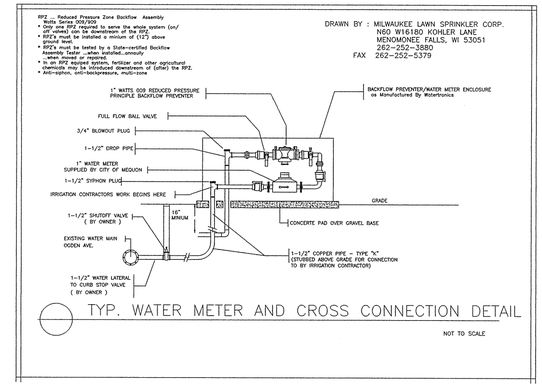
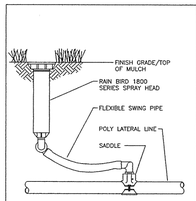
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI. 53208

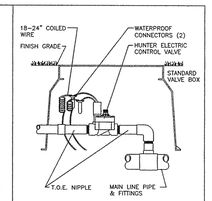
SCALE: 1" = 10'	DRAWN BY: AB
DATE: 6/14/13	CHECKED BY: J.S.
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK	SHEET DESCRIPTION: LANDSCAPE PLAN
SITE NO. 380	BUILDING NO. 5290
PROJECT NO. 0223-13628	
SHEET NO. L-4	FILE NO.



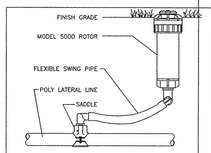




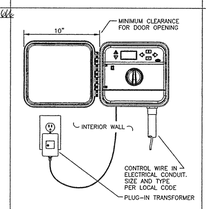
RAIN BIRD 1800 SPRAY HEAD



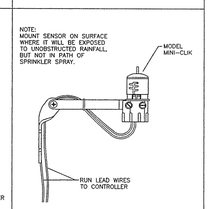
HUNTER PGV ZONE VALVE



RAINBIRD 5000 ROTOR HEAD



HUNTER PRO-C CONTROLLER (INDOOR)



HUNTER MINI-CLIK RAIN SENSOR

NOTES:
WATER SERVICE AND CURB STOP COMPLETED BY OTHERS. CONNECTION TO STUB AND INSTALLATION OF WATER METER AND BACKFLOW DEVICE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.

MAIN SLEEVES UNDER THE ROAD WERE COMPLETED BY OTHERS

NOTE:

ALL SIDEWALK AREAS WHERE LATERAL PIPE MUST GO UNDERNEATH ARE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.

	DESCRIPTION
Ⓦ	1 1/2" WATER SERVICE
Ⓜ	1" WATER METER
RPZ	1 1/2" RPZ BACKFLOW PREVENTOR
▣	HUNTER PRO-C SERIES CONTROLLER
◆	HUNTER PGV SERIES ZONE VALVE
■	RAINBIRD 1800 SERIES TURF SPRAY HEAD
⊛	RAINBIRD 1800 W/MP ROTATOR TURF HEAD
⊙	RAINBIRD 5000 SERIES TURF ROTOR
⊙	RAINBIRD 1800 SHRUB HEAD W/MP ROTATOR
⊙	RAINBIRD 1800 SHRUB HEAD
✦	HUNTER MINI CLIK RAIN SENSOR.

N

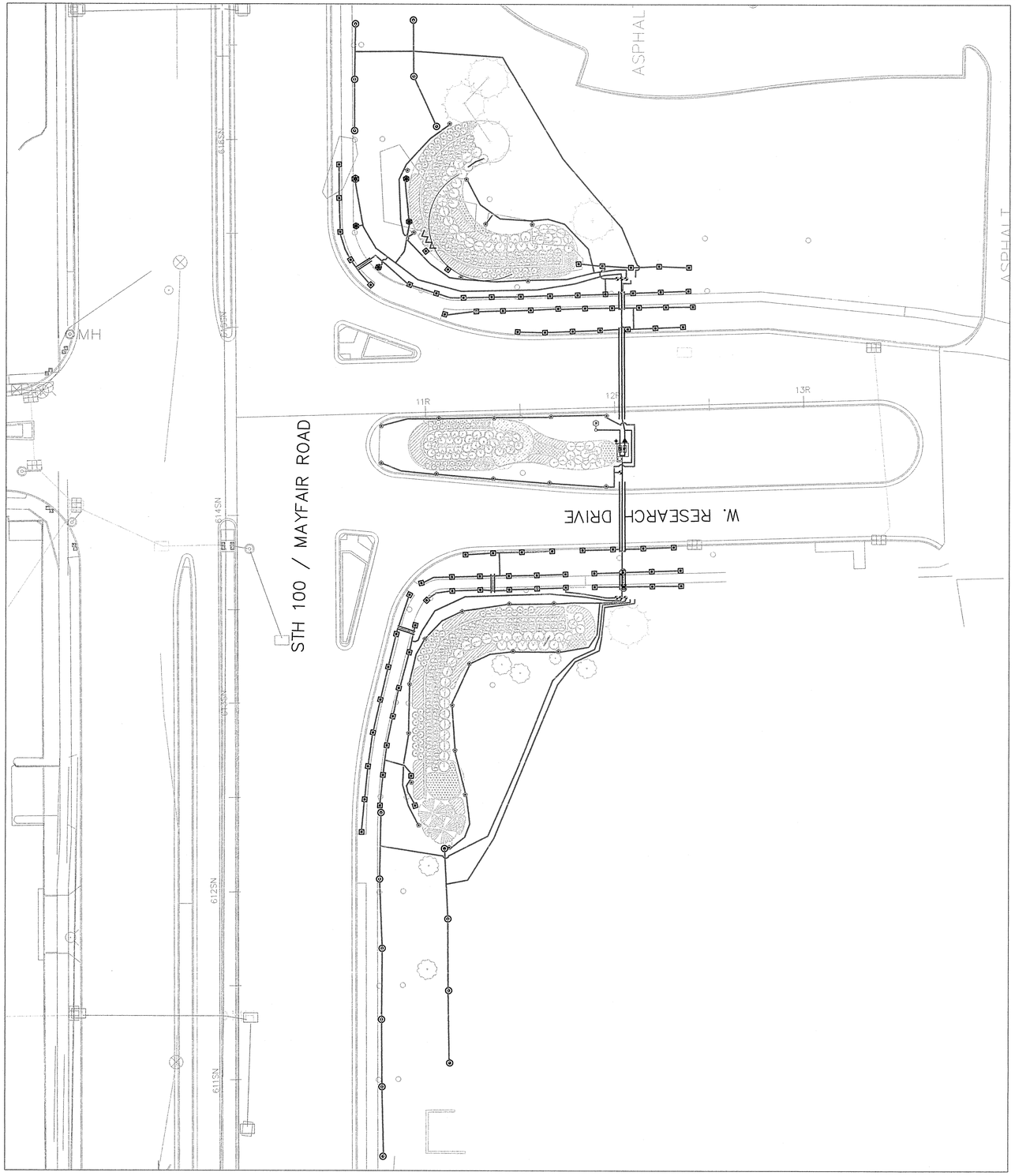
ALL PIPING SHOWN ON DRAWING IS DIAGRAMMATIC. PIPE LOCATIONS ARE NOT EXACT AND SHOWN FOR REFERENCE ONLY.

Milwaukee Lawn Sprinkler Corp. Since 1974
N60 W16180 Kohler Lane • Menomonee Falls, WI 53051
262-252-3880 • www.milwaukeelawnsprinkler.com

DATE: | REVISION DESCRIPTION: | BY:

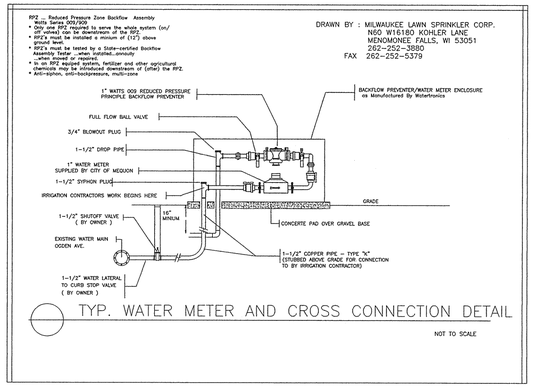
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53233

DRAWN BY: DSG
CHECKED BY: KDS
SCALE: 1" = 20'
DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK
SHEET DESCRIPTION: INNOVATION DRIVE IRRIGATION PLAN
SITE NO. 380
BUILDING NO. 5290
PROJECT NO. 0223-13628
SHEET NO. 14 OF 15
FILE NO. 14



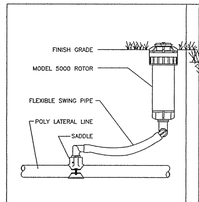
RPZ ... Reduced Pressure Zone Backflow Assembly
Watts Series 009/909
* Only one RPZ required to serve the whole system (or portion of system downstream of the RPZ)
* RPZ's must be installed a minum of (12") above ground level.
* RPZ's must be tested by a State-certified Backflow Assembly Tester ...when installed...annually
* Install in Vertical position.
* In an RPZ equiped system, fertilizer and other agricultural chemicals may be introduced downstream of (after) the RPZ.
* Anti-siphon, anti-backpressure, multi-zone

DRAWN BY : MILWAUKEE LAWN SPRINKLER CORP.
N60 W16180 KOHLER LANE
MENOMONEE FALLS, WI 53051
262-252-3880
FAX 262-252-5379

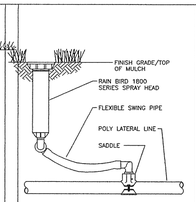


TYP. WATER METER AND CROSS CONNECTION DETAIL

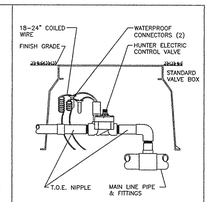
NOT TO SCALE



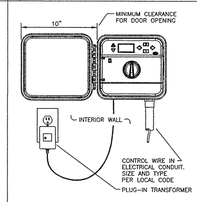
RAINBIRD 5000 ROTOR HEAD



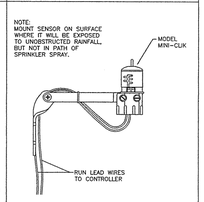
RAIN BIRD 1800 SPRAY HEAD



HUNTER PGV ZONE VALVE



HUNTER PRO-C CONTROLLER
(INDOOR)



HUNTER MINI-CLIK RAIN SENSOR

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Architecture, Engineering & Environmental Services Section
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DRAWN BY: DSG
CHECKED BY: KDS
SCALE: 1" = 30'
DATE: 6/14/13
PROJECT TITLE: MILWAUKEE COUNTY RESEARCH PARK
SHEET DESCRIPTION: RESEARCH DRIVE IRRIGATION PLAN
SITE NO. 380
BUILDING NO. 5290
PROJECT NO. 0223-13628
SHEET NO. 15 OF 15
FILE NO. 15