

ABBREVIATIONS	
ASPH	= ASPHALT
BC	= BOTTOM OF CURB
BFP	= BACKFLOW PREVENTER
BH	= BOTTOM OF HALL
C&G	= CURB AND GUTTER
C.B.	= CHORD BEARING
CB	= CATCH BASIN
CF	= CUBIC FEET
CL	= CENTERLINE
CMF	= CORRUGATED METAL PIPE
Co	= GENERAL CLEAN OUT
CONC.	= CONCRETE
CH	= COLD WATER SUPPLY
CY	= CUBIC YARD
D.O.T.	= DEPARTMENT OF TRANSPORTATION
DI	= DROP INLET
DS	= DOWN SPOUT
DIP	= DUCTILE IRON PIPE
E	= EAST
EL	= ELEVATION
EGL	= ENERGY GRADE LINE
EXIST.	= EXISTING
FDC	= FIRE DEPARTMENT CONNECTION
FES	= FLARED END SECTION
FFE	= FINISH FLOOR ELEVATION
FH	= FIRE HYDRANT
GSF	= GROSS SQUARE FEET
GT	= GREASE TRAP
GV	= GATE VALVE
HDPE	= HIGH DENSITY POLYETHYLENE
HGL	= HYDRAULIC GRADE LINE
HW	= HOT WATER SUPPLY
I	= INTERNAL ANGLE
INV.	= INVERT
IRR	= IRRIGATION
L	= LENGTH OF CURVE
L.C.	= LENGTH OF CHORD
LFEE	= LOWER FINISH FLOOR ELEVATION
LP	= LIGHT POLE/FIXTURE
LS	= LANDSCAPE
MH	= MANHOLE
N	= NORTH
PC	= POINT OF CURVATURE
PI	= POINT OF INTERSECTION
PIV	= POST INDICATOR VALVE
PROP	= PROPOSED
PT	= POINT OF TANGENCY
PVC	= POLYVINYL CHLORIDE PIPE
R	= RADIUS OF CURVE
RCP	= REINFORCED CONCRETE PIPE
RD	= ROOF DRAIN
R/W	= RIGHT-OF-WAY
S	= SOUTH
SF	= SQUARE FEET
SSE	= SANITARY SEWER EASEMENT
STD	= STANDARD
SY	= SQUARE YARD
T	= TANGENT OF CURVE LENGTH
TC	= TOP OF CURB
TB	= THRUST BLOCKING
TH	= TOP OF HALL
TYP.	= TYPICAL
W	= WEST
WM	= WATER METER
W.S.	= WATER SURFACE
W.S.E.	= WATER SURFACE ELEVATION
YR	= YEAR

SEE SURVEY/EXISTING CONDITIONS FOR ABBREVIATIONS SPECIFIC TO THAT SHEET

DEFINITIONS	
<b>ISSUED FOR PERMITTING</b> DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR PRICING, BID, OR CONSTRUCTION.	
<b>NOT ISSUED FOR CONSTRUCTION</b> DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.	
<b>ISSUED FOR CONSTRUCTION</b> DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR CONSTRUCTION.	
<b>NOT</b> 1. THROAT OR GRATE ELEVATION FOR CURB INLETS. 2. TOP OF STRUCTURE FOR JUNCTION BOXES/BOXES. 3. TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.	

EXISTING CONDITIONS LEGEND	
DESCRIPTION	LINE/TYPE/SYMBOL
IRRIGATION CONTROL VALVE	ICV
IRON PIN FOUND	IPF
IRON PIN SET (1/2" RB)	IPS
OPEN TOP PIPE	OT
CRIMP TOP PIPE	CT
CONCRETE MONUMENT FOUND	CMF
NAIL AND CAP	N & C
REBAR	RB
POWER POLE	PP
TELEPHONE POLE	TP
LAND LOT	LL
LAND LOT LINE	LLL
POINT OF BEGINNING	POB
BUILDING LINE	BL
CENTER LINE	CL
PROPERTY LINE	PL
FIRE HYDRANT	FH
CATCH BASIN	CB
DROP INLET	DI
HEADWALL	HW
JUNCTION BOX	JB
DRAINAGE EASEMENT	DE
WATER METER	WM
WATER VALVE	WV
GAS VALVE	GV
MANHOLE	MH
RIGHT-OF-WAY MONUMENT FOUND	⊠
GAS LINE	— GAS —
WATER LINE	— WAT —
SANITARY SEWER LINE	— SAN —
STORM DRAINAGE PIPE	— SD —
OVERHEAD ELECTRIC LINE	— OH ELE —
OVERHEAD ELECTRIC/TELEPHONE/TV LINE	— OH E/T/TV —

GENERAL NOTES	
1. INGENIUM ENTERPRISES, INC. (IE) REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF IE. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF IE.	
2. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.	
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS INCLUDES ALL STRIPPING AND SIGNAGE.	
4. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS REQUIREMENTS AND SAFETY MEETING REQUIREMENTS.	
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	

PROPOSED LEGEND		
GENERAL	LINE/TYPE/SYMBOL	REFERENCE
RIGHT-OF-WAY/PROPERTY LINE	— — — — —	SEE PLANS
CENTERLINE	— — — — —	SEE PLANS
LIMITS OF CONSTRUCTION	— L —	SEE PLANS
DETAIL REFERENCE	⊕	SEE PLANS
ADDENDUM AND/OR REVISION REFERENCE	⊕	SEE PLANS

SITE/HARDSCAPE		
LINE/TYPE/SYMBOL	REFERENCE	
CHAIN LINK FENCE	— — — — —	SEE PLANS
RETAINING WALL	— — — — —	N/A
SCREEN WALL/DUMPSTER ENCLOSURE	— — — — —	SEE PLANS
CURB & GUTTER	— — — — —	DETAIL 6, SHEET C03.3
HEADER CURB	— — — — —	DETAIL 7, SHEET C03.3
CONCRETE SIDEWALK	— — — — —	DETAIL 9, SHEET C03.3

UTILITY		
LINE/TYPE/SYMBOL	REFERENCE	
DOMESTIC WATER LINE	— DW —	1.5" PVC
FIRE WATER LINE	— FW —	N/A
BUILDING FIRE SPRINKLER LINE	— FWS —	N/A
IRRIGATION WATER LINE	— IRR —	N/A
DOMESTIC WATER METER (WM)	— WM —	2'
IRRIGATION METER (IRR)	— IRR —	N/A
BACKFLOW PREVENTER (BFP)	— BFP —	2'
FIRE VAULT (DDC)	— DDC —	N/A
DC BACKFLOW PREVENTER	— — — — —	N/A
WATER TAP OR TEE	— — — — —	SEE PLANS
GATE VALVE (GV)	— GV —	SEE PLANS
THRUST BLOCK (TB)	— TB —	N/A
FIRE HYDRANT (FH)	— FH —	N/A
FIRE DEPARTMENT CONNECTION (FDC)	— FDC —	N/A
SANITARY SEWER (SS)	— SS —	6' AND 4' PVC
SANITARY MANHOLE (SSMH)	— — — — —	SEE PLANS
GENERAL CLEAN OUT (GO)	— GO —	DETAIL 1, SHEET C04.2
SAMPLING MANHOLE	— — — — —	DETAIL 4, SHEET C04.3
SANITARY STRUCTURE NUMBER	— S2 —	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGE-P —	(2) 4' CONDUIT
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGE-S —	(2) 4' CONDUIT
POST INDICATOR VALVE	— PIV —	N/A
SITE LIGHTING POLE	— — — — —	SEE PLANS
TRANSFORMER PAD	— T —	DETAIL 11, SHEET C03.3
METER/CT PEDESTAL	— CT —	N/A
UNDERGROUND TELEPHONE LINE	— UGT —	(2) 4' CONDUIT
GENERAL UTILITY CONDUIT	— GU —	SEE PLANS
GAS LINE	— G —	3'
GAS METERS	— G —	SEE PLANS

**ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.**

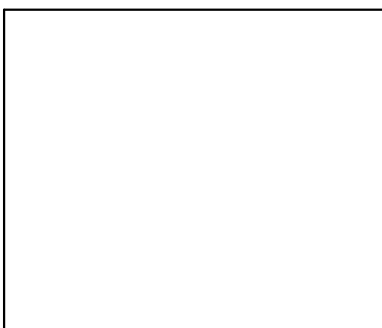
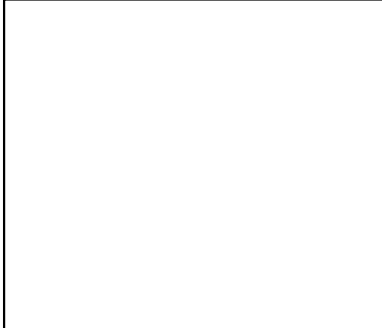
GRADING/DRAINAGE		
LINE/TYPE/SYMBOL	REFERENCE	
GRADE	— — — — —	SEE PLANS
SPOT ELEVATION	— — — — —	SEE PLANS
STORM DRAIN	— — — — —	SEE PLANS
HEADWALL (HW) / FLARED END SECTION (FES)	— — — — —	N/A
DROP INLET (GRATE)	— — — — —	N/A
DROP INLET (GRATE AND HOOD)	— — — — —	DETAIL 4, SHEET C04.2
JUNCTION BOX (JB) / OCS	— — — — —	N/A
CATCH BASIN (SINGLE WING)	— — — — —	N/A
CATCH BASIN (DOUBLE WING)	— — — — —	N/A
PEDESTAL TOP	— — — — —	N/A
STORM STRUCTURE NUMBER	— A3 —	SEE PLANS

ESPC BMP		
LINE/TYPE/SYMBOL	REFERENCE	
CONSTRUCTION ENTRANCE / EXIT	— — — — —	SHEET C06.4
SEDIMENT BARRIER	— — — — —	SHEET C06.4
INLET SEDIMENT TRAP	— — — — —	SHEET C06.4
DISTURBED AREA STABILIZATION - MULCHING ONLY	— — — — —	SHEET C06.6
DISTURBED AREA STABILIZATION - TEMPORARY SEEDING	— — — — —	SHEET C06.5
DISTURBED AREA STABILIZATION - PERMANENT SEEDING	— — — — —	SHEET C06.5
DUST CONTROL	— — — — —	SHEET C06.5

SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS



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REVISION HISTORY	
1	ISSUED FOR PERMITTING
2	NOT ISSUED FOR CONSTRUCTION
3	ISSUED FOR CONSTRUCTION

THE CIVIL ENGINEER REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS AND USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED.

PROJ # 160276  
DWG NAME 160276 COLLING  
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PROJ TGR: CB

GENERAL NOTES

C01.1  
SHEET NUMBER

ISSUE FOR BID