



ABBREVIATIONS

ASPH	ASPHALT
BC	BOTTOM OF CURB
BFP	BACKFLOW PREVENTER
BN	BOTTOM OF HALL
CG	CURB AND GUTTER
C.S.	CHORD BEARING
CB	CATCH BASIN
CF	CUBIC FEET
CL	CENTERLINE
CM	CORRUGATED METAL PIPE
CO	GENERAL CLEAN OUT
CONC.	CONCRETE
CH	COLD WATER SUPPLY
CT	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
FEE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
GC	GENERAL CONTRACTOR
GSF	GROSS SQUARE FEET
GT	GREASE TRAP
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HN	HOT WATER SUPPLY
I	INTERNAL ANGLE
INV.	INVERT
IRR	IRRIGATION
L.C.	LENGTH OF CURVE
L.C.	LENGTH OF CHORD
LFPE	LOWER FINISH FLOOR ELEVATION
LP	LIGHT 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
RC	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
TC	TANGENT OF CURVE LENGTH
TC	TOP OF CURB
TB	THRUST BLOCKING
TW	TOP OF WALL
TYP.	TYPICAL
W	WEST
WM	WATER METER
WS	WATER SURFACE
W.S.E.	WATER SURFACE ELEVATION

SEE SURVEY EXISTING CONDITIONS FOR ABBREVIATIONS SPECIFIC TO THIS SHEET

DEFINITIONS

NEED FOR PERMITTING
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.

NOT ISSUED FOR CONSTRUCTION
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.

ISSUED FOR CONSTRUCTION
DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR CONSTRUCTION.

NOT
1. THROAT OR GRATE ELEVATION FOR CURB INLETS.
2. TOP OF STRUCTURE FOR JUNCTION BOXES/OCS.
3. TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.

EXISTING CONDITIONS LEGEND

DESCRIPTION	LINETYPE/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
HEADMALL	HM
JUNCTION BOX	JB
DRAINAGE EASEMENT	DE
WATER METER	WM
WATER VALVE	WV
GAS VALVE	GV
MANHOLE	MH
RIGHT-OF-WAY MONUMENT FOUND	ROW-MF
GAS LINE	GAS
WATER LINE	WAT
SANITARY SEWER LINE	SAN
STORM DRAINAGE PIPE	SD
OVERHEAD ELECTRIC LINE	OH E/L
OVERHEAD ELECTRIC/TELEPHONE LINE	OH E/T/TV
OVERHEAD ELECTRIC/TELEPHONE LINE	OH E/T

GENERAL NOTES

- 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.
- DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- 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 STRIPING AND SIGNAGE.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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.
- 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	LINETYPE/SYMBOL	REFERENCE
RIGHT-OF-WAY/PROPERTY LINE	---	SEE PLAN
CENTERLINE	---	SEE PLAN
LIMITS OF CONSTRUCTION	---	SEE PLAN
DETAIL REFERENCE	+	SEE PLAN
ADDENDUM AND/OR REVISION REFERENCE	△	SEE PLAN

SITE/HARDSCAPE	LINETYPE/SYMBOL	REFERENCE
CHAIN LINK FENCE	---	N/A
RETAINING WALL	---	SEE PLANS
SCREEN WALL/DAMPSTER ENCLOSURE	---	SEE PLANS
CURB & GUTTER	---	DETAIL 5, SHEET C03.3
HEADER CURB	---	N/A
CONCRETE SIDEWALK	---	DETAIL 6, SHEET C03.3

UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	---	3" PVC
FIRE WATER LINE	---	8" DIP
BUILDING FIRE SPRINKLER LINE	---	8" DIP
DOMESTIC WATER LINE	---	1" PVC
DOMESTIC WATER PIPING (NPI)	---	SEE PLANS
IRRIGATION FILTER (IRR)	---	SEE PLANS
BACKFLOW PREVENTER (BFP)	---	N/A
FIRE VAULT (DDC)	---	N/A
DC BACKFLOW PREVENTER	---	DETAIL 1, SHEET C04.2
WATER TAP OR TEE	---	DETAIL 4, SHEET C04.2
GATE VALVE (GV)	---	DETAILS 4 & 6, SHEET C04.2
THRUST BLOCK (TB)	---	DETAIL 2, SHEET C04.2
FIRE HYDRANT (FH)	---	N/A
FIRE DEPARTMENT CONNECTION (FDC)	---	SEE ARCH. PLANS
SANITARY SEWER (SS)	---	6" PVC
SANITARY MANHOLE (SSMH)	---	DETAIL 4, SHEET C04.3
GENERAL CLEAN OUT (GO)	---	DETAIL 1, SHEET C04.3
SAMPLING MANHOLE	---	N/A
SANITARY STRUCTURE NUMBER	---	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	---	(2) 4" PVC
UNDERGROUND ELECTRIC LINE-SECONDARY	---	(2) 4" PVC
POST INDICATOR VALVE	---	N/A
SITE LIGHTING POLE	---	SEE ARCH. PLANS
TRANSFORMER PAD	---	BY UTILITY
METER/ACT PEDESTAL	---	N/A
UNDERGROUND TELEPHONE LINE	---	(4) 4" PVC
GENERAL UTILITY CONDUIT	---	(2) 4" PVC
GAS LINE	---	"
GAS METERS	---	"

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

GRADING/DRAINAGE

GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE	---	SEE PLANS
SPOT ELEVATION	x	SEE PLANS
STORM DRAIN	---	SEE PLANS
HEADMALL (HM) / FLARED END SECTION (FES)	---	N/A
DROP INLET (GRATE)	---	DETAIL 1, SHEET C04.5
DROP INLET (GRATE AND HOOD)	---	DETAIL 1, SHEET C04.6
JUNCTION BOX (JB) / OCS	---	DETAIL 2, SHEET C04.6
CATCH BASIN (SINGLE WING)	---	DETAIL 2, SHEET C04.5
CATCH BASIN (DOUBLE WING)	---	DETAIL 2, SHEET C04.5
PEDESTAL TOP	---	N/A
STORM STRUCTURE NUMBER	---	SEE PLANS

ESPC BMP

ESPC BMP	LINETYPE/SYMBOL	REFERENCE
CONSTRUCTION EXIT	---	SHEET C06.9
SILT FENCE - TYPE C	---	SHEET C06.8
INLET SEDIMENT TRAP-FILTER	---	SHEET C06.5
INLET SEDIMENT TRAP-CURB	---	SHEET C06.5
DUST CONTROL-DISTURBED AREAS (WITH HOLDING ONLY)	---	SHEET C06.5
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	---	SHEET C06.6
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	---	SHEET C06.7
DISTURBED AREA STABILIZATION (WITH SODDING)	---	SHEET C06.7
SLOPE STABILIZATION	---	SHEET C06.9

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



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REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITTING	11/06/2019
2	ISSUED FOR CONSTRUCTION	11/06/2019
3	ISSUED FOR CONSTRUCTION	11/06/2019
4	ISSUED FOR CONSTRUCTION	11/06/2019
5	ISSUED FOR CONSTRUCTION	11/06/2019
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49	ISSUED FOR CONSTRUCTION	11/06/2019
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PROJ # 180660
DWG NAME 180660 COI.DWG
ISSUE DATE 11/06/2019
PROJ MGR EF

GENERAL NOTES

COI.1
SHEET NUMBER

Order Plans @

ISSUE FOR PERMIT