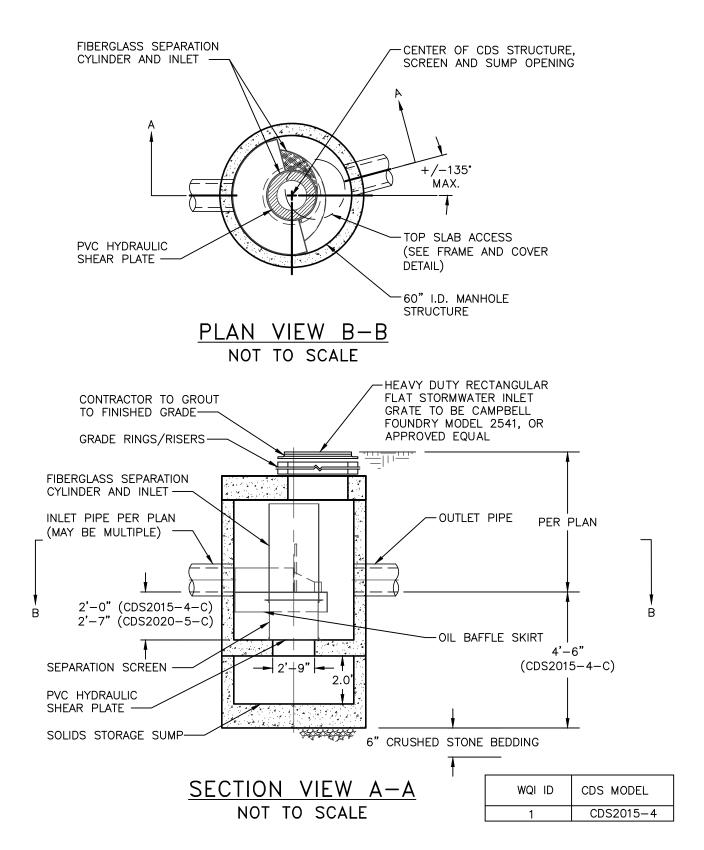


PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.
THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH 3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATERTIGHT. 4. PROVIDE A MINIMUM O.1' DROP BETWEEN INLET AND OUTLET INVERTS (MATCH CROWNS FOR PIPES WITH DIFFERENT SIZE) UNLESS OTHERWISE NOTED ON THE PLAN. 5. CATCH BASINS WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS. 6. HDPE PIPE SHALL BE PROVIDED WITH WATERTIGHT CONNECTIONS. ADS MODEL N12 WT IB OR APPROVED EQUAL. CATCH BASIN DETAIL NOT TO SCALE

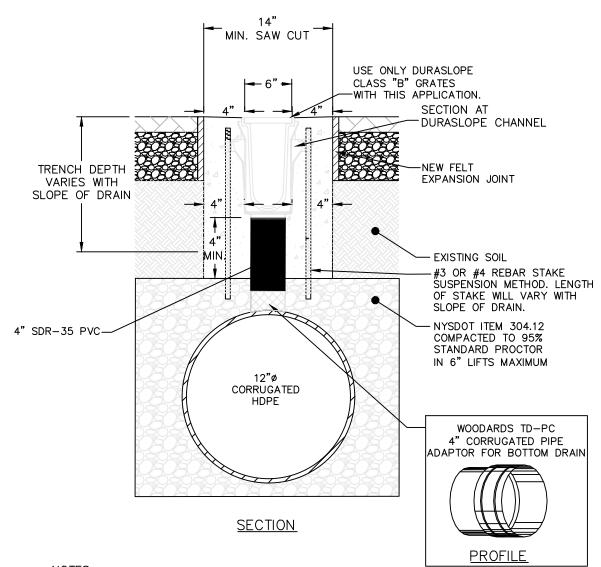


1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL BE DESIGNED TO MEET PERFORMANCE GOALS BASED ON FULL SCALE LABORATORY PERFORMANCE DATA. SWTS SHALL BE DESIGNED TO RETAIN FLOATABLES AND TRAPPED SEDIMENT AT FLOW RATES UP TO AND INCLUDING PEAK TREATMENT CAPACITY. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION.
SWTS SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER. SWTS SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS. PIPE ORIENTATION MAY VARY; SEE SITE PLAN FOR SIZE AND LOCATION. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF INTERNAL COMPONENTS. ONE MANHOLE FRAME AND COVER SUPPLIED WITH SYSTEM, NOT INSTALLED.
PURCHASER TO PREPARE EXCAVATION AND PROVIDE LIFTING EQUIPMENT. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER AT, OR BELOW THE OUTLET PIPE INVERT ELEVATION. 11. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

CDS® PRE-TREATMENT UNIT DETAIL

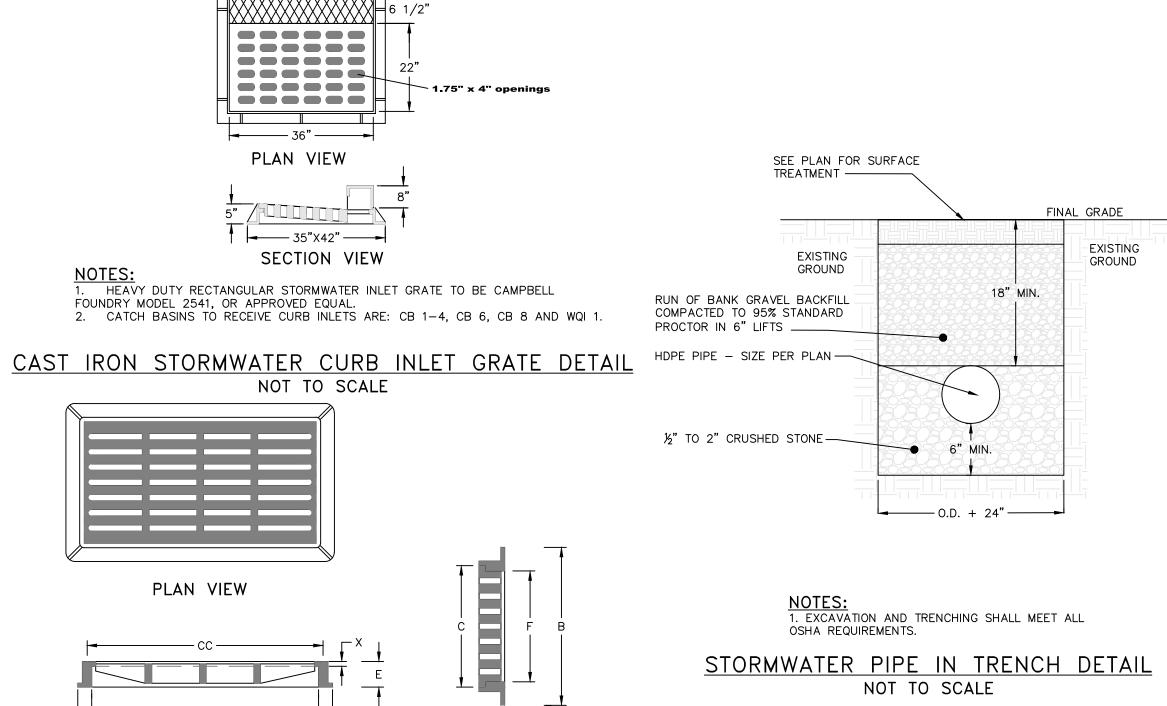
NOT TO SCALE

12. SEE UTILITY PLAN FOR PIPE ORIENTATION, INVERTS AND SIZES.



- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. TRENCH DRAIN SHALL BE NDS DURA-SLOPE TRENCH DRAIN, CLASS B LOADING, MODEL NUMBER: DS-091N OR APPROVED EQUAL.
- 3. PIPE ADAPTOR FOR BOTTOM DRAIN SHALL BE WOODARDS 4" CORRUGATED PIPE ADAPTOR, MODEL NUMBER: TD—PC OR NDS DURA-SLOPE TRENCH DRAIN WITH CONNECTION TO STORMWATER CONVEYANCE

NOT TO SCALE

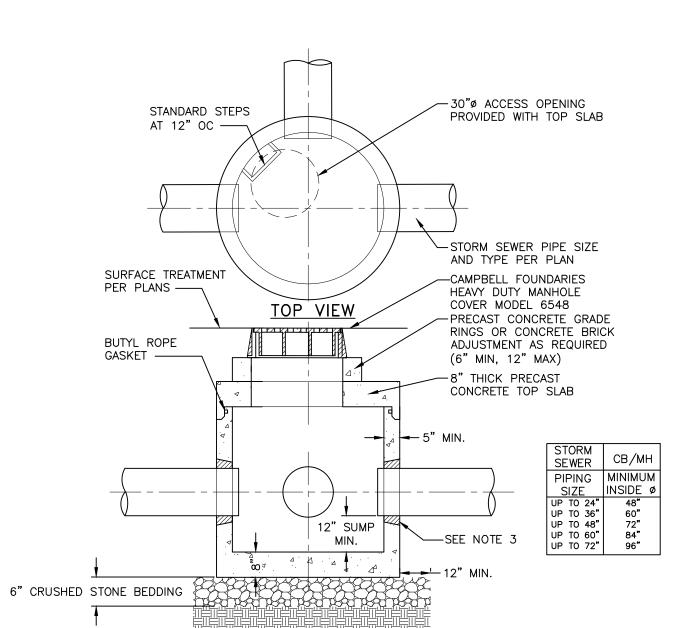


SECTION VIEW 2 DIMENSION TABLE: SECTION VIEW 1 NOTES:

1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY

CAST IRON STORMWATER FLAT INLET GRATE DETAIL NOT TO SCALE

2. STMH1 AND STMH 2 RECEIVE SOLID CAST IRON COVERS.

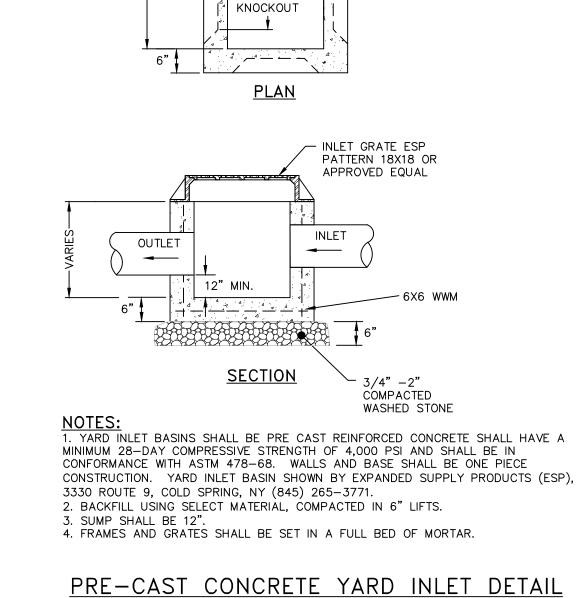


NOTES:

SIDE VILW

1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI © 28 DAYS. 2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARGED AROUND. 3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF 4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR H20 TRAFFIC LOADING.
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR H20 LOADING. 6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS. STORMWATER MANHOLE DETAIL

NOT TO SCALE

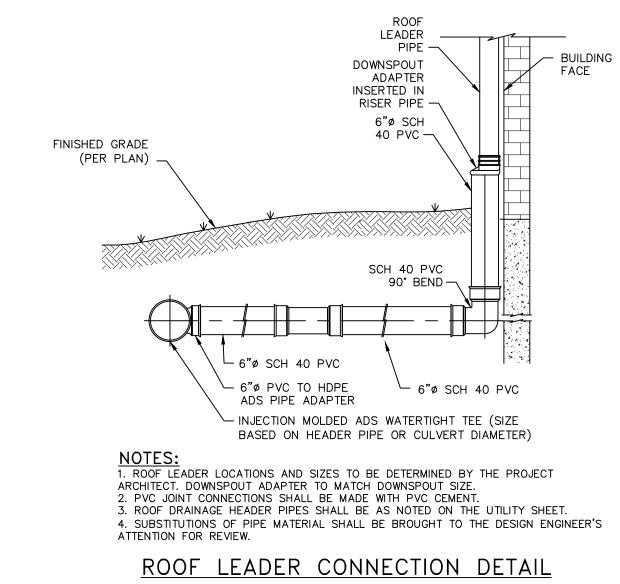


18" 6'

1.3' MIN. SQUARE NEENAH FOUNDRY MODEL R-5900-A (OR EQUAL) HEAVY DUTY FRAME AND LID FINISHED GRADE, REFER TO PLAN -12" SDR-35 / SCH. 40 PVC COLLAR FIELD PLACED CLASS "C" CONCRETE MAINTAIN 6" CLEARANCE BETWEEN HEAVY DUTY LID AND PVC CLEAN—OUT CAP 6" SDR-35 / SCH. 40 PVC ENDCAP CLEAN-OUT ADAPTER W/ SCREW-IN CAP ~6" SDR-35 / SCH. 40 PVC RISER 6" SDR-35 / SCH. 40 PVC COUPLING TRIM CHAMBER INSPECTION PORT KNOCK-OUT TO MATCH O.D. OF 6" INSPECTION PORT PIPE 6" SDR-35 / SCH 40 PVC (INSERTED 8" INTO CHAMBER)

NOT TO SCALE

UNDERGROUND DETENTION SYSTEM INSPECTION PORT DETAIL NOT TO SCALE



CULTEC HVLV FEED CONNECTOR (TYP)___

INSPECTION PORT TO BE INSTALLED

ON INLET ROW (SEE DETAIL) ----

STORMWATER CHAMBER

(SEE TABLE)—__

12' MAX.

POLYETHYLENE LINER TO BE

PLACED BENEATH FIRST ROW

THE GRADING SHEET.

OF CHAMBERS

TOP OF STONE BED

STORM CHAMBER INVERT ELEV.

=(SEE TABLE) -

BOTTOM OF STONE

BED =(SEE TABLE) -

FINISHED GRADE

FINAL SURFACE

TREATMENT

_4 OZ. NON-WOVEN FILTER

STONE BED CHAMBER STONE BED STONE BED ELEVATION INVERT ELEVATION FOOTPRINT

110.0 | 111.0 | 118.0 | 26' X 96'

UNDERGROUND DETENTION SYSTEM DETAIL

NOT TO SCALE

VARIES - REFERITO PLANS

FABRIC AROUND STONE.

REFER TO PLAN FOR TOP AND SIDES MANDATORY.

1-2 INCH WASHED,

CRUSHED STONE

→ 58" CENTER TO CENTER -

2. THE BED OF THE SYSYTEM FOOTPRINT SHALL BE LAID NEARLY LEVEL.

BEDROCK ENCOUNTERED, SOIL PROPERTIES ARE NOT CONSISTENT, ETC.).

SECTION VIEW NOTES:

1. CULTEC RECHARGER 330XLHD CHAMBERS BY CULTEC, INC. OF BROOKFIELD, CT. ALL CHAMBERS SHALL BE

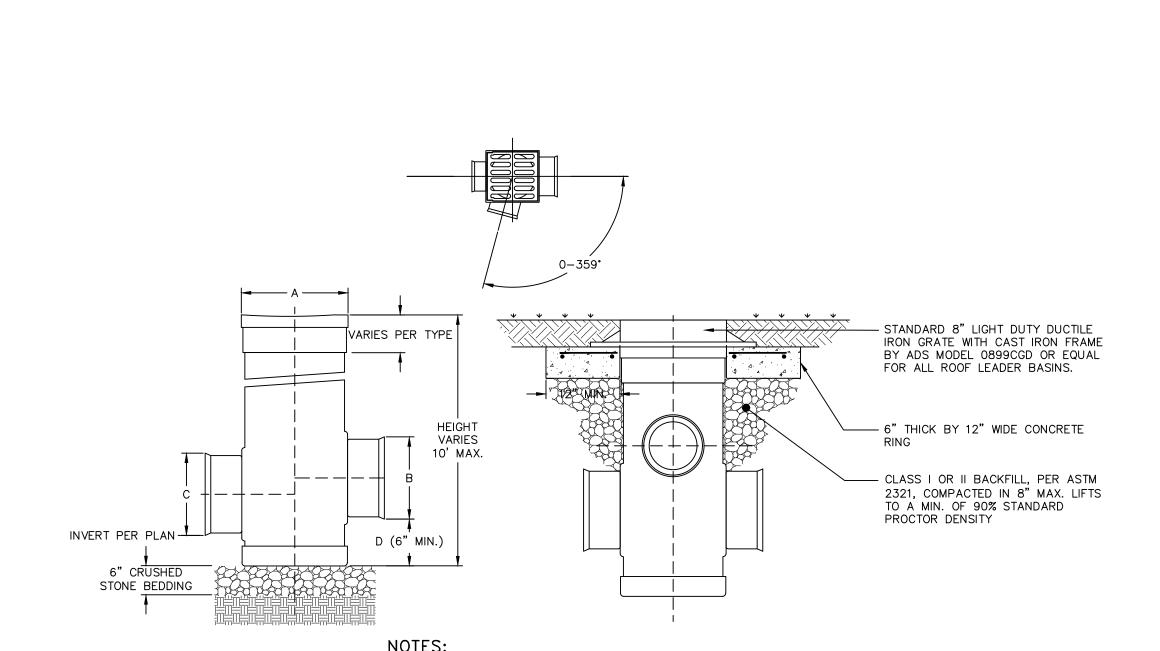
3. EACH ROW OF CHAMBERS SHALL BE FED VIA A 12" MANIFOLD WITH TEE CONNECTIONS BY CULTEC OR EQUAL.

INFILTRATOR TRENCHES IS NOT CONSISTENT WITH THE TEST PIT OR PERCOLATION DATA (E.G. GROUNDWATER OR

5. REFER TO THE INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES NOTES ON

4. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IF SUBSURFACE CONDITIONS IN THE AREAS OF THE

INSTALLED IN ACCORDANCE WITH CULTEC INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.



FINISHED GRADE

PAVEMENT SECTION

FINAL SURFACE

TREATMENT

_ 4 OZ. NON-WOVEN FILTER

AND SIDES MANDATORY.

-REFER TO PLAN FOR FABRIC AROUND STONE. TOP

1 - 2 INCH DIA. WASHED,

CHAMBER —

SIDE PORTAL TO BE CUT IN FIELD TO ACCEPT HVLV

CULTEC RECHARGER 330

XLHD INTERMEDIATE

POLYETHYLENE LINE TO BE PLACED BENEATH

—INLET STRUCTURE

(REFER TO PLANS)

FIRST ROW OF CHAMBERS

FEED CONNECTOR IF

CULTEC RECHARGER 330

RECHARGER 330 XLHD

STARTER CHAMBER -

CULTEC NO. 20L

POLYETHYLENE LINER

TO BE PLACED BENEATH

FIRST ROW OF CHAMBERS-

CULTEC RECHARGER 330

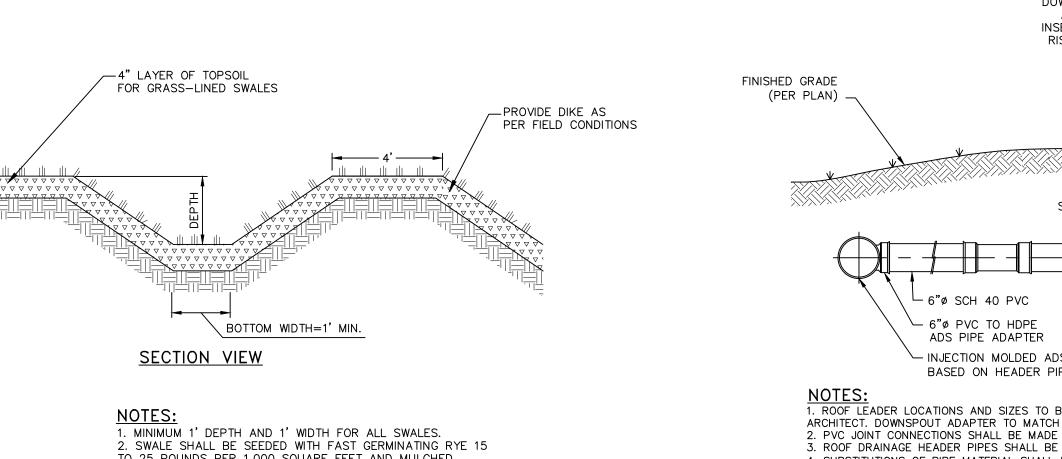
XLHD STARTER CHAMBER -

XLHD INTERMEDIATE

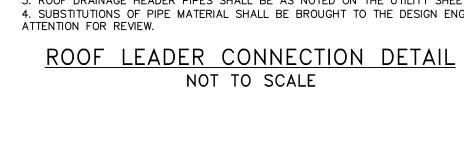
NOTES:

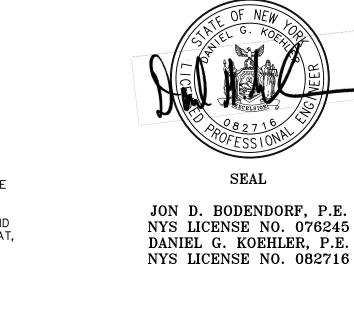
1. IN-LINE DRAINS TO BE USED TO CONVEY ROOF DRAINAGE TO THE OUTFALLS, AS SHOWN ON ROOF LEADER IN-LINE DRAIN DETAIL

NOT TO SCALE



TO 25 POUNDS PER 1,000 SQUARE FEET AND MULCHED. GRASS LINED SWALE/DIKE DETAIL NOT TO SCALE





REV	ISIONS:		
NO.	DATE	DESCRIPTION	E
1	8/29/2017	PER PLANNING BOARD COMMENTS	D
2	10/31/2017	NO CHANGES THIS SHEET	D
3	01/30/2018	PER PLANNING BOARD COMMENTS	D
4	02/27/2018	PER PLANNING BOARD COMMENTS	D
	1		

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE ______ DAY OF ______, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT, AS APPROVED, SHALL VOID THIS APPROVAL. SIGNED THIS _____, 20____, BY

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.

Stormwater Details Sheet 14 of 15

Scale: As Noted

July 25, 2017