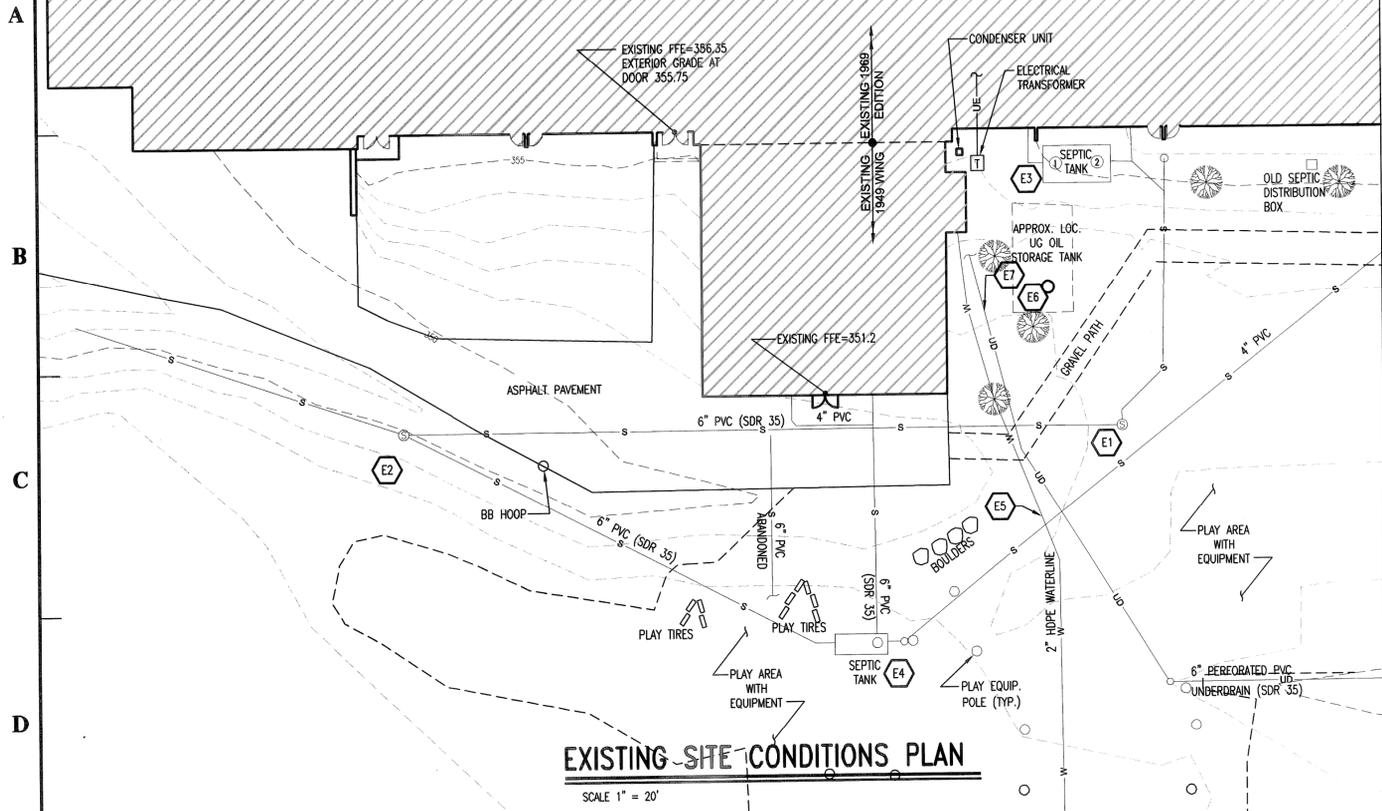


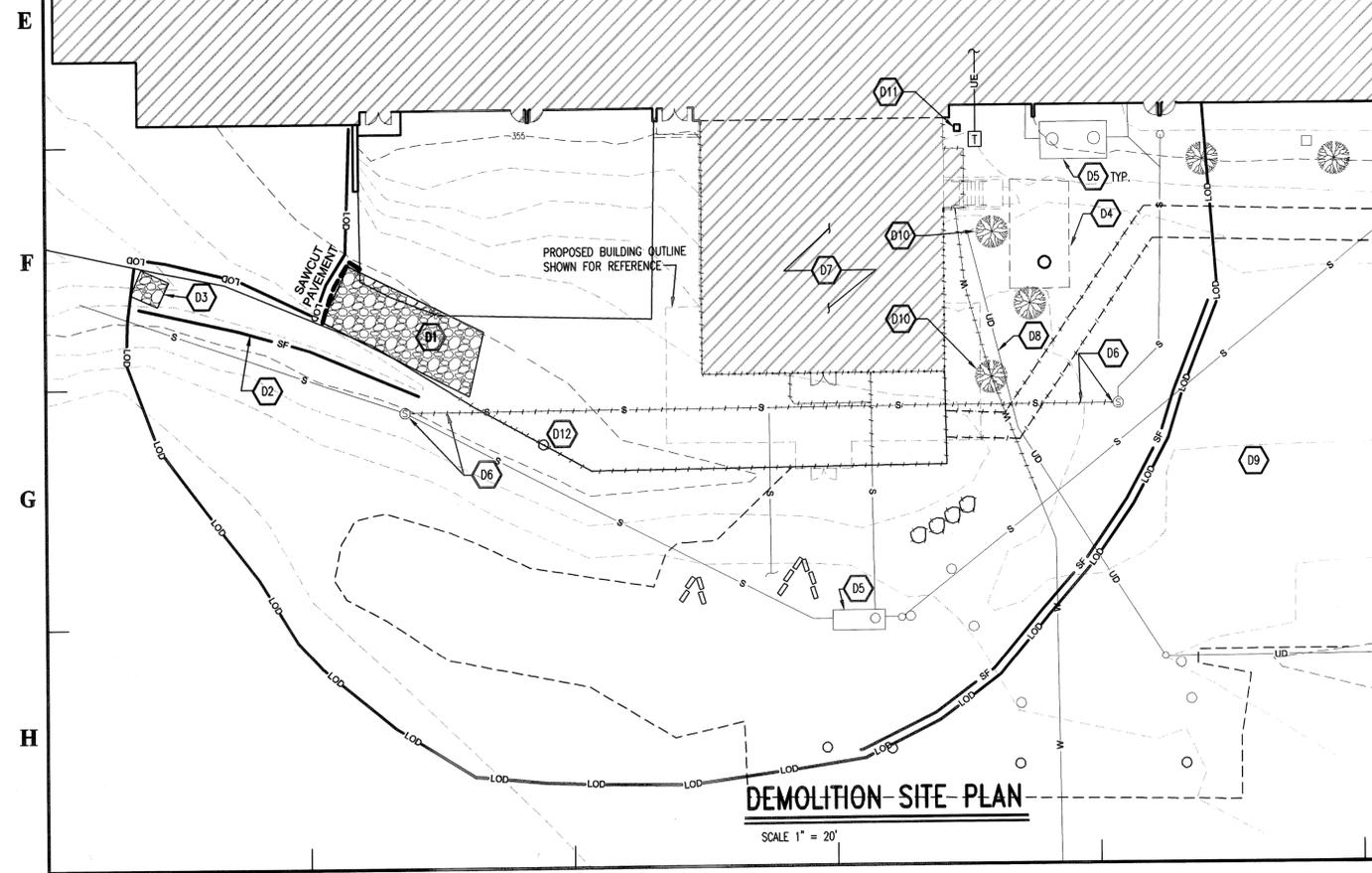
CHARLOTTE CENTRAL SCHOOL



EXISTING SITE CONDITIONS PLAN

SCALE 1" = 20'

CHARLOTTE CENTRAL SCHOOL



DEMOLITION SITE PLAN

SCALE 1" = 20'

GENERAL NOTES

1. EXACT OBJECT LOCATIONS MAY DIFFER FROM THAT AS SHOWN, AND ADDITIONAL SUB-SURFACE AND SURFACE UTILITIES AND STRUCTURES MAY EXIST. THE CONTRACTOR IS TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK AND TO CALL DIG SAFE 48 HOURS PRIOR TO DIGGING, DRILLING OR BLASTING.
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL FROM THE ENGINEER.
3. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
4. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO EXISTING CONDITIONS OR BETTER AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
6. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, AND CERTIFICATES.
7. THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NY STATE LICENSED LAND SURVEYOR.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT EXPLORATORY TEST PITS AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS.
10. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST OSHA AND VOSHA REGULATIONS FOR CONSTRUCTION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
12. MAINTAIN FLOW FOR ALL EXISTING UTILITIES, UNLESS NOTED OTHERWISE.
13. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
14. CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND IMPERVIOUS SURFACES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, MONITORING, MAINTENANCE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. TAKING PRECAUTIONARY STEPS TO AVOID ANY SEDIMENT TRANSFER TO NEIGHBORING SITES OR WATERS OF THE STATE.

SURVEY NOTES

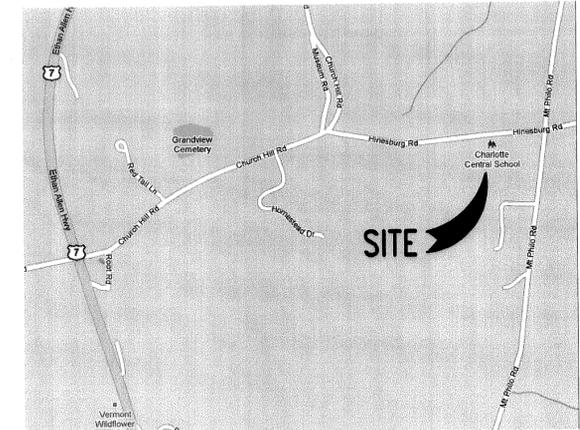
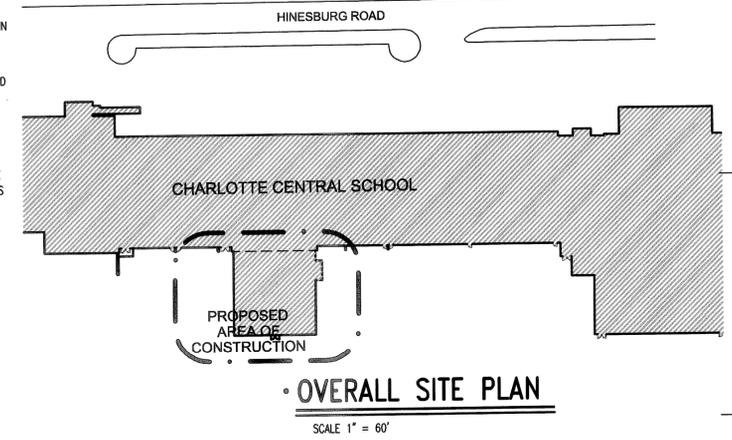
1. PROPERTY LINES ARE NOT DEPICTED ON THIS PLAN. NO PROPOSED WORK SHALL BE INSTALLED ON ADJACENT PROPERTIES. VERIFY LOCATION OF PROPERTY LINES PRIOR TO CONSTRUCTION.
2. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT, OWNER, AND ENGINEER. THE CONTRACTOR SHALL CONTACT DIGSAFE (888-344-7233) A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION AND AS REQUIRED.
3. INFORMATION SHOWN ON THIS PLAN IS BASED RECORD DRAWINGS (VARIOUS DATES) BY DONALD L. HAMLIN CONSULTING ENGINEERS ESSEX JUNCTION, VT AND A SITE VISIT BY EV ON 2/22/10
4. THE SITE IS ZONED "RURAL" BY THE TOWN OF CHARLOTTE.
5. THE PROPOSED AREA OF CONSTRUCTION IS NOT WOODED.

EXISTING SITE CONDITIONS PLAN NOTES

- PLAN NOTE: (XX)
- E1 EXISTING SMH 1: RIM= 352.36 INV. IN= 345.66 INV. OUT= 345.54
 - E2 EXISTING SMH 2: RIM= 350.85 INV. IN= 343.96 INV. OUT= 343.74
 - E3 EXISTING SEPTIC TANK RIM(1)= 355.06 RIM(2)= 355.21 INV. OUT= 353.20
 - E4 EXISTING SEPTIC TANK RIM= 352.69 INV. OUT= 347.12
 - E5 EXISTING WATER LINE (2" HDPE) LOCATION UNKNOWN. VERIFY LOCATION IN FIELD.
 - E6 EXISTING UNDERGROUND OIL STORAGE TANK. LOCATION UNKNOWN. VERIFY LOCATION IN FIELD.
 - E7 APPROXIMATE LOCATION OF EXISTING ROOF DRAIN

SITE DEMOLITION PLAN NOTES

- PLAN NOTE: (XX)
- D1 TEMPORARY CONSTRUCTION ENTRANCE. INSTALL PRIOR TO PROCEEDING WITH DEMOLITION, GRADING, OR PROPOSED WORK. SEE DETAIL 1/C3.4.
 - D2 TEMPORARY SILT FENCE. INSTALL PRIOR TO PROCEEDING WITH DEMOLITION, GRADING, OR PROPOSED WORK. SEE DETAIL 2/C3.4.
 - D3 TEMPORARY CHECK DAM. INSTALL PRIOR TO PROCEEDING WITH DEMOLITION, GRADING, OR PROPOSED WORK. SEE DETAIL 7/C3.4.
 - D4 PROTECT IN PLACE EXISTING OIL TANK. DO NOT PLACE ANY EQUIPMENT, MATERIALS OR STAGING ON TANK. REMOVE OIL VENT FROM BUILDING AND PROVIDE SUPPORT AND TEMPORARY VENT 60' ABOVE EXISTING GRADE. (TURN DOWN VENT OPENING) RELOCATE VENT BACK TO BUILDING'S EXTERIOR AT END OF CONSTRUCTION.
 - D5 PROTECT IN PLACE EXISTING SEPTIC TANK.
 - D6 AFTER CONSTRUCTION OF NEW SEWERLINE, REMOVE EXISTING SEWER LINE AND GROUT ABANDONED OPENINGS IN MANHOLE WITH HYDRAULIC CEMENT.
 - D7 DEMOLISH SOUTH END OF BUILDING IN ACCORDANCE WITH ARCHITECTURAL PLANS. TAKE CARE TO PROTECT FROM DAMAGE. SOME FOUNDATIONS AND COMPONENTS TO REMAIN. COORDINATE ALL DEMOLITION WORK WITH PLANS FOR PROPOSED WORK.
 - D8 VERIFY IN FIELD AND PROTECT IN PLACE. PROVIDE AN ALLOWANCE TO INSTALL 80 LF OF NEW 6" PVC (SDR 35) DRAINAGE PIPE.
 - D9 EXISTING PLAYGROUND EQUIPMENT. PROTECT IN PLACE.
 - D10 TEMPORARILY TRANSPLANT TREE AND REPLACE AT END OF CONSTRUCTION.
 - D11 REMOVE EXISTING CONDENSER UNIT, SLAB, PIPING, AND ELECTRICAL. SALVAGE FOR OWNER.
 - D12 REMOVE EXISTING BASKETBALL HOOP. SALVAGE FOR OWNER.

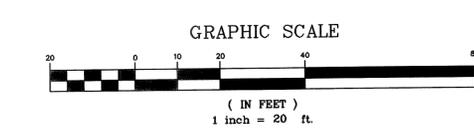


VICINITY MAP

1" = 1000'

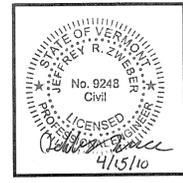
LEGEND

EXISTING FEATURES	PROPOSED FEATURES
⊙	MANHOLE
○ C/O	CLEAN OUT
⊠	CATCH BASIN
☆	LIGHT POLE
+	SIGN
⊗	TREE
X	FENCE
S	SANITARY SEWER LINE
ST	STORM LINE
W	WATER LINE
UE	UNDERGROUND ELECTRIC
—	EDGE OF PAVEMENT
—	SILT FENCE
—	LIMITS OF DISTURBANCE



IF THIS SHEET DOES NOT MEASURE 24" X 36", THE SCALES INDICATED HEREIN WILL NOT BE ACCURATE.
THE DATUM MAIN GRADE LEVEL FLOOR ELEVATION FOR THIS PROJECT SHALL BE CONSIDERED TO BE 100'-0". THIS LEVEL CORRESPONDS TO THE SURVEYED ELEVATION 356.81 FT AS INDICATED ON THE CIVIL DRAWINGS.

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Project No. **07-537**
EV-09724

CHARLOTTE CENTRAL SCHOOL RENOVATIONS & NEW SOUTH WING CHARLOTTE, VERMONT

REV:	ISSUE PURPOSE:

DATE: **2010-04-16** SCALE:

DRAWN BY: **JZ/KW** CHECK BY: **JZ/KW**

SHEET TITLE:
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET #:
C1.0

PERMIT SET

SANITARY SEWER NOTES

CONTRACTOR SHALL CONFORM TO GUIDELINES DETAILED IN THE VERMONT STATE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR READING AND FOLLOWING THE FULL COMPLETE EDITION PROVIDED BY THE STATE.

- A-01. BUILDING SEWERS**
- MATERIALS: THE BUILDING SEWER SHALL BE CONSTRUCTED IN A MANNER WHICH WILL PREVENT LEAKING, BREAKING OR CLOGGING. ACCEPTABLE MATERIALS FOR THE SEWER ARE RUBBER-RING-JOINTED PVC GRAVITY SEWER PIPE SDR35 ASTM D3034.
 - SIZE AND SLOPE: MINIMUM BUILDING SEWER SIZE IS 4 INCHES (UNLESS SHOWN ON THE PLAN) AND A MINIMUM SLOPE IS 1/4 INCH PER FOOT.
 - MANHOLES: BUILDING SEWERS SHALL BE CONNECTED THROUGH A MANHOLE OR WITH A WYE FITTING SO AS TO DIRECT FLOW AND MINIMIZE IN-LINE TURBULENCE.
 - CLEANOUTS: CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL CHANGE IN DIRECTION OF THE BUILDING SEWER GREATER THAN 45 DEGREES AND WHERE INDICATED ON THE DESIGN DRAWINGS. BUILDING SEWER CHANGES IN DIRECTION WHICH EXCEEDED 45 DEGREES SHOULD BE MADE WITH TWO 45 DEGREE ELBS OR LONG SWEEP FITTINGS. MANHOLES ARE ACCEPTABLE IN LIEU OF CLEANOUTS. WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH OF LESS THAN 3 FEET UNDER DRIVEWAYS ARE ANTICIPATED, EXTRA HEAVY CAST IRON PIPE SHALL BE USED.
 - LEAKAGE: BUILDING SEWERS SHALL MEET THE LEAKAGE STANDARDS PRESCRIBED IN THE STATE OF VERMONT SPECIFICATIONS (EPR - CHAPTER 1). SEE "A-02," BELOW FOR MORE DETAIL.

- A-02. SEWER COLLECTION SYSTEMS**
- A SEWER COLLECTION SYSTEM IS THAT SYSTEM OF SEWERS THAT TRANSPORT WASTEWATER FROM BUILDING SEWERS TO THE WASTEWATER TREATMENT/ DISPOSAL SYSTEM.
 - NO CONNECTIONS OF ROOF DRAINS, AREA DRAINS, FOUNDATION DRAINS, CELLAR DRAINS OR OTHER CLEAN WATER SOURCES OR ANY STORM DRAINS WILL BE ALLOWED TO BUILDING OR COLLECTION SEWERS.
 - THE SIZE OF COLLECTION SEWERS SHALL BE AS SHOWN ON THESE DRAWINGS.
 - DEPTH: SEWERS SHALL BE SUFFICIENTLY DEEP TO PREVENT FREEZING. RIGID FOAM INSULATION SHALL BE USED, WHERE INDICATED ON DRAWINGS.
 - SLOPE, VELOCITY: ALL SEWERS SHALL BE INSTALLED WITH NOT LESS THAN THE SLOPES SHOWN BELOW:
- | PIPE SIZE (INCHES) | SLOPE (FEET/100 FEET) |
|--------------------|-----------------------|
| 6" | 0.40 |
| 8" | 0.60 |
- CHANGES IN PIPE SIZE: WHEN A SMALLER SEWER JOINS A LARGE ONE, THE INVERT OF THE LARGER SEWER SHALL BE LOWERED SUFFICIENTLY TO MAINTAIN THE SAME ENERGY GRADIENT.
 - MATERIAL: PVC SDR 35, ASTM D3034, WITH PUSH-ON GASKETED JOINTS. GASKETS SHALL CONFORM TO ASTM D3212. SEWER JOINTS SHALL BE CONSTRUCTED TO MINIMIZE INFILTRATION AND TO PREVENT THE ENTRANCE OF ROOTS INTO THE SYSTEM.
 - TRENCHING: LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
 - BEDDING: SEE TRENCH DETAILS THIS DRAWING FOR MATERIALS. TRENCH BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL FREE FROM DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS.
 - LEAKAGE TESTS: UPON COMPLETION OF SEWER MAIN CONSTRUCTION, THE SEWER LINE SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF VERMONT SPECIFICATIONS (EPR - CHAPTER 1, APPENDIX "A").

LEAKAGE TESTS FOR GRAVITY SEWERS

PERFORM A PRESSURIZED AIR TEST ON THE GRAVITY LINE IN ACCORDANCE WITH THE VERMONT ENVIRONMENTAL PROTECTION RULES ON EACH SECTION OF THE GRAVITY SEWER. THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.

PLUS ALL OPENINGS IN THE TEST SECTION, ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 POUNDS/SQUARE INCH (PSI) GREATER THAN THE AVERAGE PRESSURE OF ANY GROUND WATER. AFTER THIS PRESSURE IS REACHED, ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MINUTES DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.

WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI ABOVE THE PIPE, START THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED TO HAVE FAILED THE TEST. IF A 1.0 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST. THE TEST TIME SHALL BE DERIVED FROM THE FOLLOWING TABLE. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION.

PIPE SIZE (INCHES)	T (TIME) (MIN/100 FT.)
3	0.3
4	0.3
6	0.7
8	1.2
10	1.5
12	1.8

- K. INSTALLATION:** PIPE SHALL BE LAID WITH BELL ENDS FACING UPGRADE AND LAYING SHALL START AT THE DOWNGRADE END.
- L. WATER LINE SEPARATION**
- HORIZONTAL SEPARATION: SEWERS SHALL BE LAID FLAT AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

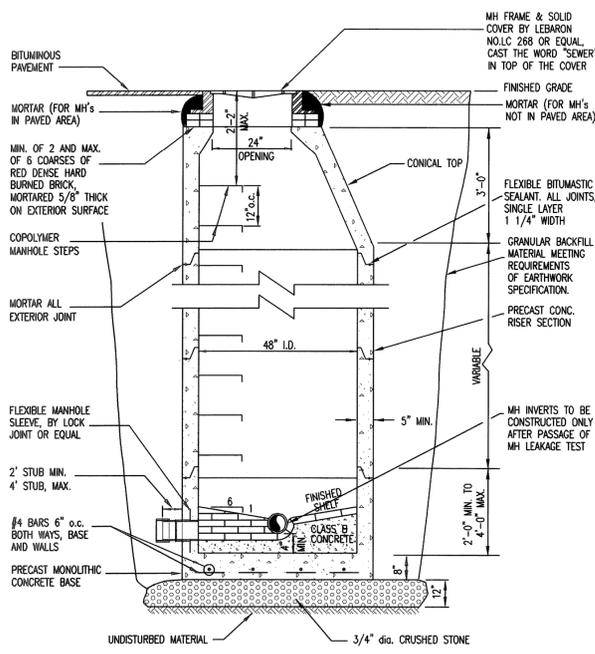
WHERE IMPOSSIBLE OR IMPRACTICABLE, DUE TO LEDGE, BOULDERS OR OTHER UNUSUAL CONDITIONS, TO MAINTAIN THE TEN FOOT SEWER/WATER PIPE HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINES, THE WATER LINE MAY BE IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF IN THE SEWER TRENCH PROVIDED THAT THE BOTTOM OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHEREVER IMPOSSIBLE OR IMPRACTICAL TO MAINTAIN THE 18 INCH VERTICAL SEPARATION, THE SEWER LINE SHALL BE CONSTRUCTED TO NORMAL WATER LINE STANDARDS AND PRESSURE TESTED TO 50 PSI FOR 15 MINUTE PRIOR TO BACKFILLING. NO LEAKAGE SHALL BE FOR THIS TEST.

- CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION:
 - THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AWAY AS POSSIBLE FROM WATER JOINTS.
 - THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER.
 - THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.
 - WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

- A-03. MANHOLES**
- DIAMETER: THE MINIMUM DIAMETER OF MANHOLES SHALL BE 48 INCHES; LARGE DIAMETERS ARE PREFERRED FOR CONNECTION TO LARGE DIAMETER SEWERS. A MINIMUM ACCESS DIAMETER OF 24 INCHES SHALL BE PROVIDED.
 - FLOW CHANNEL: FLOW CHANNELS SHALL BE PROVIDED IN THE BASE OF ALL MANHOLES AND THE FLOW CHANNEL THROUGH MANHOLES SHOULD BE MADE TO CONFORM IN SHAPE AND SLOPE TO THAT OF THE SEWERS.
 - MANHOLES SHALL BE OF THE PRE-CAST CONCRETE OR POUR-IN PLACE CONCRETE TYPE. MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR.
 - INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A RUBBER-GASKETED FLEXIBLE WATER TIGHT CONNECTION THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL TO TAKE PLACE.
 - ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE WATER TESTING PROCEDURES TAKES INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHERWISE, MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

AFTER THE MANHOLE HAS BEEN ASSEMBLED IN PLACE, ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED WITH AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED AND POINTED TO PREVENT BLOWOUT.

EACH MANHOLE SHALL BE CHECKED FOR INFILTRATION BY FILLING WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE. IF NECESSARY, AND THE MEASURING TIME OF AT LEAST SIX HOURS BEGINS. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE MEASURING THE VOLUME OF WATER ADDED. THIS AMOUNT SHALL BE CONVERTED TO A 24 HOUR RATE AND THE LEAKAGE DETERMINED ON THE BASIS OF DEPTH. THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR A 24 HOUR PERIOD FOR EXFILTRATION AND THERE SHALL BE NO VISIBLE INFILTRATION.



SANITARY MANHOLE DETAIL
SCALE: NONE

- MANHOLE NOTES:**
- INVERTS OF MANHOLES SHALL BE LINED WITH HARD BRICK.
 - PROVIDE SMOOTH SWEEPING TRANSITIONS BETWEEN INVERTS OF INTERSECTING PIPE.
 - IF DEPTH OF MANHOLE IS 7 FT. OR LESS FROM RIM TO CENTERLINE INVERT, THEN A FLAT TOP WILL BE INSTALLED; IF DEPTH OF MANHOLE FROM RIM TO CENTERLINE INVERT IS MORE THAN 7 FT., THEN A CONICAL TOP WILL BE INSTALLED.
 - ALL MATERIALS TO MEET VT-ANR REQUIREMENTS.

WATER NOTES

- WATER MAINS**
- PERFORM A HYDROSTATIC AND LEAKAGE TEST ACCORDING TO ANNA C600 (LATEST REVISION) ON EACH PIPE LINE.
 - THE ENGINEER SHALL BE GIVEN AT LEAST 72 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.
 - SPECIFIED TEST PRESSURE IS 200 PSI, AND PRESSURE DURING TEST SHALL NOT VARY BY MORE THAN 5 PSI.

- EXISTING UTILITIES**
- LOCATION OF UTILITY INSTALLATIONS AND UNDERGROUND STRUCTURES ARE SHOWN AS APPROXIMATE ON THE CONTRACT DOCUMENTS.
 - ALL UTILITIES SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
 - EXISTING UTILITIES SHALL BE PROTECTED AND SUPPORTED DURING CONSTRUCTION.
 - ALL WATER, GAS, CABLE, TELEPHONE, ELECTRIC, SEWER, AND OTHER UTILITIES FOUND TO INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED IN A MANNER ACCEPTABLE TO THE ENGINEER.

- PIPE BEDDING**
- SAND BEDDING MEETING REQUIREMENTS OF EARTHWORK SPECIFICATIONS
 - SAND BLANKET MEETING REQUIREMENTS OF EARTHWORK SPECIFICATIONS
 - TRENCH FINAL BACKFILL MATERIAL - MATERIAL WILL EXCLUDE PIECES OF PAVEMENT, ORGANIC MATTER, TOPSOIL, ALL WET OR SOFT MUCK, PEAT, CLAY, LARGE ROCKS (12" DIMENSION), OR ANY MATERIAL DETERMINED BY THE ENGINEER THAT WILL NOT BE SUITABLE.

- HIGH DENSITY POLYETHYLENE PIPING (HDPE)**
- HDPE PIPE AND FITTINGS SHALL BE FABRICATED AS SPECIFIED IN ASTM D3530.
 - HDPE PIPES SHALL BE JOINED BY MEANS OF ZERO LEAK-RATE-HEAT-FUSION, OR ELECTROFUSION, AND APPROVED MECHANICAL JOINTS, MEETING THE SPECIFICATIONS AND REQUIREMENTS OF ANNA C606.
 - PIPE OD SIZES SHALL BE AVAILABLE IN DUCTILE IRON PIPE SIZES.
 - PIPES SHALL BE RATED FOR A WORKING PRESSURE OF 150 PSI, AND SHALL HAVE A DIMENSION RATION (DR) OF 11.0.
 - PIPE AND FITTINGS SHALL BE DRISCOPE PRISMA 4000 AS MANUFACTURED BY DRISCOPE OR APPROVED EQUIVALENT.

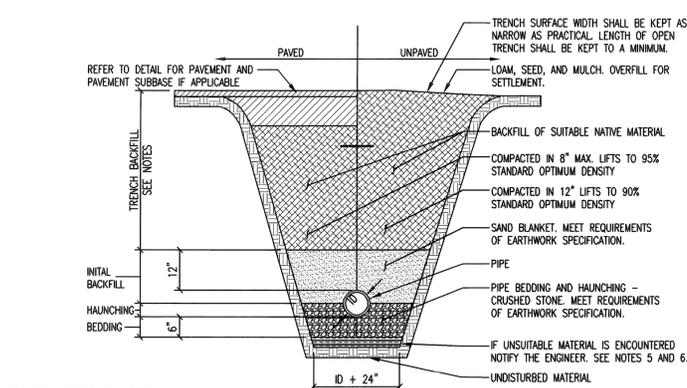
- COPPER TUBING**
- TYPE-K, ANNEALED, ASTM B88
 - FITTINGS: ASME B16.18, CAST COPPER, OR ASME B16.22, WROUGHT COPPER.
 - JOINTS: COMPRESSION CONNECTION OR ANS AS.8, BCUP SILVER BRAZE.

- CHLORINATION OF DOMESTIC WATER LINES**
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY DISINFESTION OF WATER MAINS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR BACTERIOLOGICAL TESTING AS REQUIRED BY THIS SPECIFICATION AND REFERENCE STANDARDS MENTIONED.
 - DISINFECT ALL NEW PIPELINE SYSTEMS IN ACCORDANCE WITH ANNA C651, INCLUDING:
 - METHOD OF CHLORINE APPLICATION. USE CONTINUOUS FEED METHOD OR SLUG METHOD. (TABLET METHOD IS NOT ACCEPTABLE).
 - FORM OF CHLORINE UTILIZED.
 - FINAL FLUSHING.
 - BACTERIOLOGICAL TESTING
 - REPETITION OF PROCEDURE

- CONCRETE**
- CLASS B CONCRETE SHALL HAVE:
 - MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
 - AIR ENTRAINMENT OF 4% TO 6% BY VOLUME
 - WATER CEMENT RATIO OF 0.49 LBS. WATER/CEMENT.
 - SLUMP OF 2 TO 4 INCHES.
 - PLACE NO CONCRETE WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT OR MORE THAN 90 DEGREES FAHRENHEIT.
 - NO CONCRETE SHALL BE DROPPED MORE THAN SIX FEET INSIDE A FORM.
 - MAINTAIN TEMPERATURE OF CONCRETE SURFACE AT MINIMUM 50 DEGREES FAHRENHEIT FOR 72 HOURS AFTER PLACING CONCRETE. PREHEAT ALL ENCLOSURES FOR A MINIMUM OF 2 HOURS TO PROVIDE A MIN. SURFACE TEMPERATURE OF 45 DEGREES FAHRENHEIT.
 - ALLOW TO SET AND CURE ALL THRUST BLOCKS, CONCRETE SUPPORTS, AND ANCHORS A MINIMUM OF 24 HOURS BEFORE BACKFILLING.
 - COMPLETELY CURE AND SET CONCRETE BEFORE ANY HYDROSTATIC OR LEAKAGE TESTING OF PIPELINE SYSTEMS.
 - NONSHRINK GROUT SHALL BE HALO TRADEMARK, AS MANUFACTURED BY LEWA & FINK INDUSTRIAL PRODUCTS.
 - DO NOT PLACE ANY MORTAR OR GROUT WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.
 - MORTAR FOR MANHOLES SHALL CONSIST OF THE FOLLOWING:
 - CEMENT-TYPE II, ASTM C150.
 - HYDRATED LIME-TYPE N, ASTM C207.
 - SAND-ASTM C 33, FINE AGGREGATES FOR CONCRETE.
 - WATER-CLEAN, SUITABLE FOR DRINKING.
 - MIX (BY VOLUME): 1 PART CEMENT, 1/2 PART LIME, 4 1/2 PARTS SAND.

GENERAL

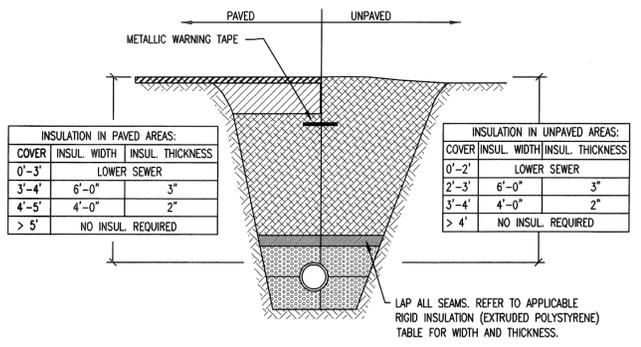
- "AS BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AT THE TIME OF COMPLETION OF THE SYSTEM.



- SANITARY SEWER TRENCH NOTES:**
- UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA & VOSHA REQUIREMENTS.
 - BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR FULL LENGTH OF PIPE.
 - FOR BUILDING SEWERS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 4'-0". WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH LESS THAN 3'-0" UNDER DRIVEWAYS, EXTRA HEAVY CAST IRON OR OTHER HIGH STRENGTH PIPE SHALL BE USED. OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
 - FOR SEWER COLLECTION SYSTEMS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 6'-0". OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
 - BACKFILL SHALL BE OF A SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL WITHIN TWO FEET OF THE TOP OF THE PIPE.
 - LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.

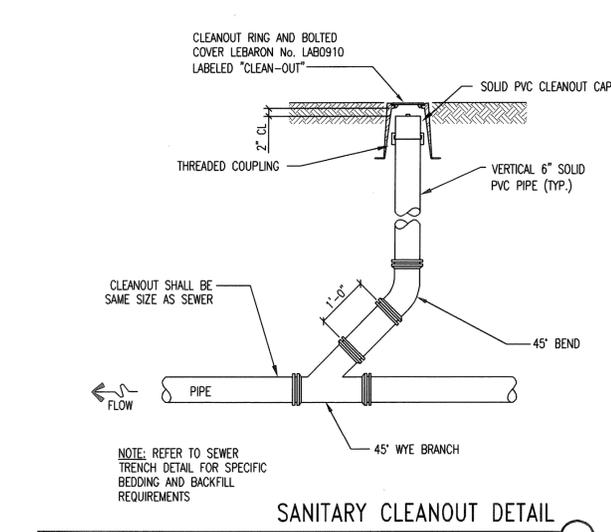
SANITARY SEWER TRENCH

SCALE: NONE

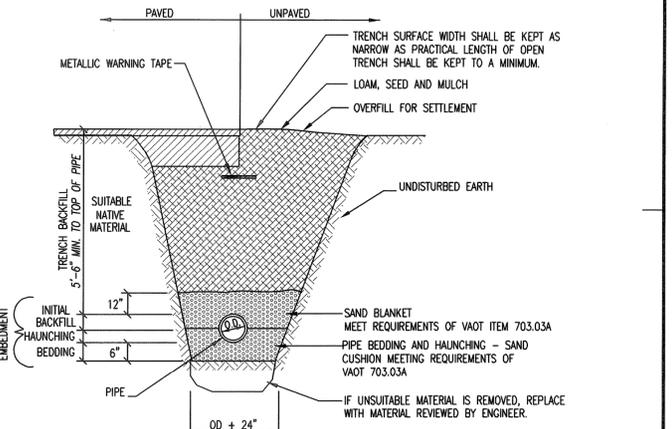


INSULATION OVER SHALLOW SEWER LINE DETAIL

SCALE: NONE



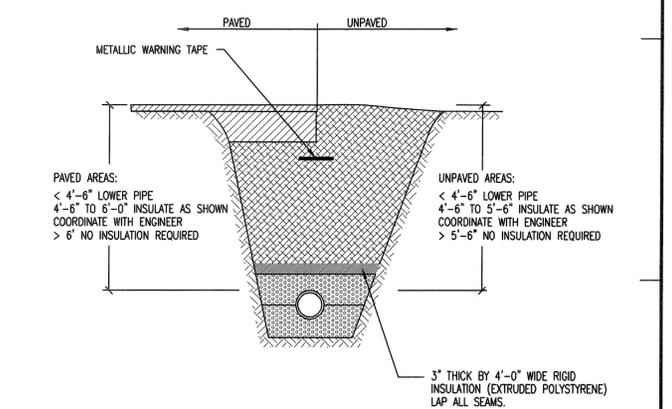
SCALE: NONE



- WATER TRENCH NOTES:**
- BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.
 - PROVIDE 5'-6" MINIMUM COVER OVER WATER PIPE.
 - INSTALL WATER PIPE IN ACCORDANCE WITH ANNA STANDARD C600.

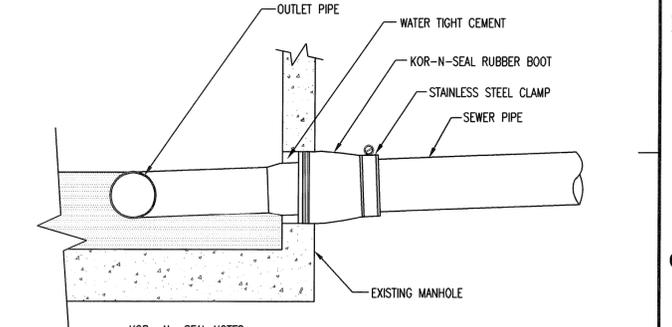
TYPICAL WATER TRENCH DETAIL

SCALE: NONE



INSULATION OVER SHALLOW WATERLINE DETAIL

SCALE: NONE



- KOR -N- SEAL NOTES:**
- CORE HOLE SHALL BE SMOOTH, SYMMETRICAL, AND APPROPRIATELY SIZED FOR SEWER PIPE INSTALLATION.
 - RECONSTRUCT FLOW CHANNELS FOR NEW SEWER INLET PIPING.

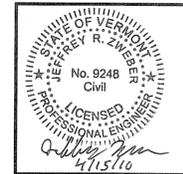
KOR -N- SEAL MANHOLE CONNECTION

SCALE: NONE

IF THIS SHEET DOES NOT MEASURE 24" X 36", THE SCALES INDICATED HEREIN WILL NOT BE ACCURATE.

THE DATUM MAIN GRADE LEVEL FLOOR ELEVATION FOR THIS PROJECT SHALL BE CONSIDERED TO BE 100'-0". THIS LEVEL CORRESPONDS TO THE SURVEYED ELEVATION 356.81 FT AS INDICATED ON THE CIVIL DRAWINGS.

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Project No. **07-537**
EV#09724

CHARLOTTE CENTRAL SCHOOL RENOVATIONS & NEW SOUTH WING
CHARLOTTE, VERMONT

REV:	ISSUE PURPOSE:
DATE:	SCALE:
2010-04-16	
DRAWN BY:	CHECK BY:
	JZ/KW

SECRET TITLE:

WATER & SEWER DETAILS

SECRET #:

C3.2

PERMIT SET

EARTHWORK NOTES

- PRIOR TO THE START OF WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE TOWN ENGINEER, CONTRACTOR, OWNER, AND PROJECT ENGINEER TO REVIEW PROCEDURES, IDENTIFY RESPONSIBILITIES, UNLESS STATED OTHERWISE, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE APPLICABLE STATE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- CLEARING AND GRUBBING- SITE TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, INCLUDING DRIVEWAYS, STONE WALLS, AND GRASS AREAS. THE DRIVEWAY SUB-GRADE MATERIAL SHALL EXTEND ONE FOOT BEYOND THE EDGE OF PAVING.
- SUB-GRADE - THE SUB-GRADE SHALL CONSIST OF TWELVE INCHES OF COARSE CRUSHED GRAVEL AND SIX INCHES OF FINE CRUSHED GRAVEL. GRADATION CURVES COMPLYING WITH AASHTO T27 AND T11 SHALL BE PROVIDED FOR THE ENGINEERS REVIEW PRIOR TO CONSTRUCTION.
- COMPACTION OF ALL MATERIALS SHALL BE PERFORMED USING VIBRATORY ROLLERS AND WATER IN LIFTS OF NO GREATER THAN TWELVE INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY AASHTO T238 METHOD AND SHALL NOT BE LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH AASHTO T99 FOR PAVED AREAS; 85 PERCENT IN GRASSES AREAS.
- COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LAYER OF MATERIAL PLACED AND FOR EVERY 1000 SQUARE FEET OF AREA.
- PAVEMENT SHALL MEET APPLICABLE STATE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REQUIREMENTS, IN ADDITION TO APPLICABLE TOWN ROAD STANDARDS.
- PAVEMENT SHALL NOT BE INSTALLED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT, NOR WHEN THE ROAD BASE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. PAVEMENT SHALL NOT FALL BELOW 185 DEGREES FAHRENHEIT PRIOR TO THE COMPLETION OF ROLLING. PAVEMENT SHALL NOT BE INSTALLED WHEN THE SUBGRADE IS FROZEN OR THE GRASSES ARE INCORRECT.
- ALL REMAINING DISTURBED AREAS SHALL BE FERTILIZED AND SEEDING IN ACCORDANCE WITH APPLICABLE STATE SPECIFICATIONS.
- THE SEEDING OF 10% OR GREATER SLOPES SHALL REQUIRE THE USE OF EROSION CONTROL MATTING.
- COST OF TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES:

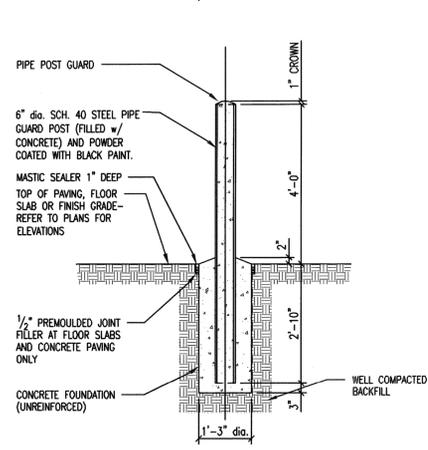
A. SAND BLANKET/BEDDING:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
	1-1/2 INCHES	90 - 100
	1/2 INCH	70 - 100
	NO. 4	60 - 100
	NO. 100	0 - 20
	NO. 200	0 - 8
B. 3/4" CRUSHED STONE:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 INCH	100
	3/4 INCHES	90 - 100
	3/8 INCH	20 - 55
	NO. 4	0 - 10
	NO. 8	0 - 5
C. GRAVEL SUB-BASE:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	NO. 4	20 - 60
	NO. 100	0 - 12
	NO. 200	0 - 6
D. COARSE CRUSHED GRAVEL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	4 INCHES	35 - 100
	NO. 4	25 - 50
	NO. 100	0 - 12
	NO. 200	0 - 6
E. FINE CRUSHED GRAVEL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
	1 1/2 INCHES	90 - 100
	NO. 4	30 - 60
	NO. 100	0 - 12
	NO. 200	0 - 6
F. GRANULAR BACKFILL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	3 INCHES	100
	NO. 4	45 - 75
	NO. 100	0 - 12
	NO. 200	0 - 6
G. TYPE I STONE FOR STONE FILL		
THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 1 INCH TO 12 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF FOUR INCHES.		
H. TYPE II STONE FOR STONE FILL		
THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM TWO INCHES TO 36 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF 12 INCHES.		
I. TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS:		
1. THE pH OF THE MATERIAL SHALL BE BETWEEN 5.5 AND 7.6.		
2. THE ORGANIC CONTENT SHALL BE NOT LESS THAN 2% NOR MORE THAN 20%.		
3. GRADATION:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
	1 INCH	85 - 100
	1/4 INCH	65 - 100
	NO. 4	20 - 80
	NO. 10	0 - 5
	NO. 200	0 - 1.5

THE CONTRACTOR MAY AMEND NATURAL TOPSOIL WITH APPROVED MATERIALS AND BY APPROVED METHODS TO MEET THE ABOVE SPECIFICATIONS.

K. CRUSHED STONE FOR GRAVEL WETLANDS
APPROVED CRUSHED STONE SHALL BE CLEAN, UNIFORMLY-SIZED WASHED CRUSHED STONE, WASHED ROCK OR SIMILAR AGGREGATE, 1.5", FREE OF FINES, WITH A RANGE OF 0.75 INCHES TO 2.0 INCHES IN ACCORDANCE WITH THE SIEVE REQUIREMENTS LISTED BELOW.

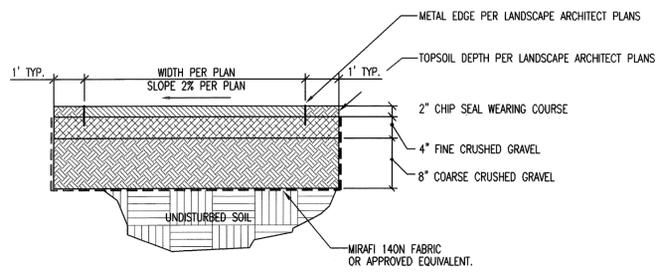
APPROVED CRUSHED STONE SHALL MEET THE SIEVE SIZE AND PERCENT PASSING BY WEIGHT REQUIREMENTS IN ACCORDANCE WITH AASHTO, 27TH EDITION, TEST METHOD T011-85.

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SIEVE
2 INCH	100
1 INCH	80 - 100
3/4"	0 - 20
NO. 4	0 - 5
NO. 200	0 - 1.5



PIPE BOLLARD DETAIL

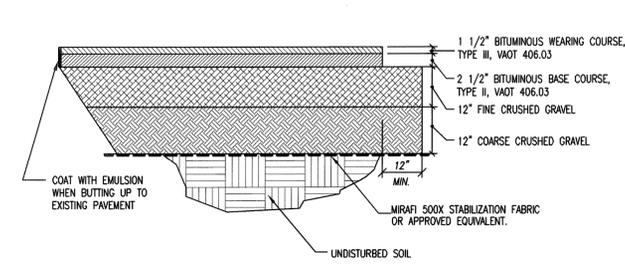
SCALE: NONE



BITUMINOUS PAVED PATH DETAIL

SCALE: NONE

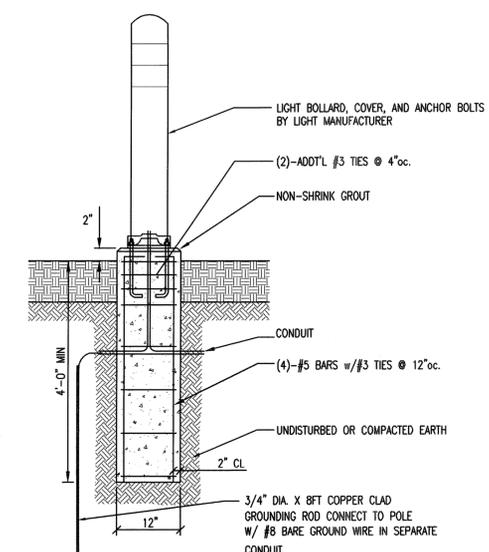
- NOTES:
- COMPACT ALL FILL MATERIAL TO 95% OPTIMUM DENSITY.
 - REFER TO LANDSCAPE ARCHITECT'S PLANS FOR ADDITIONAL DETAILS.



PAVEMENT DETAIL

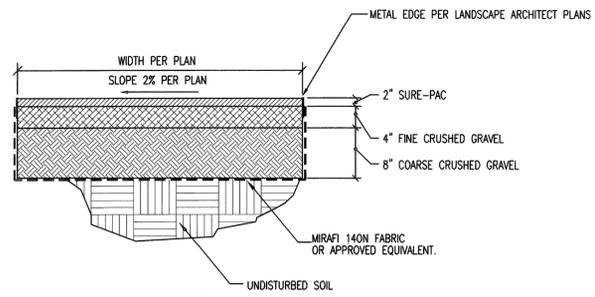
SCALE: NONE

- PAVEMENT PATCHING NOTES:
- IN ALL PAVEMENT AREAS TO BE PATCHED, SAW CUT AND REMOVE EXISTING PAVEMENT.
 - EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE.
 - COMPACT ALL FILL MATERIAL TO 95% OPTIMUM DENSITY.
 - REFER TO LANDSCAPE ARCHITECT'S PLANS FOR ADDITIONAL DETAILS.



LIGHT BOLLARD BASE DETAIL

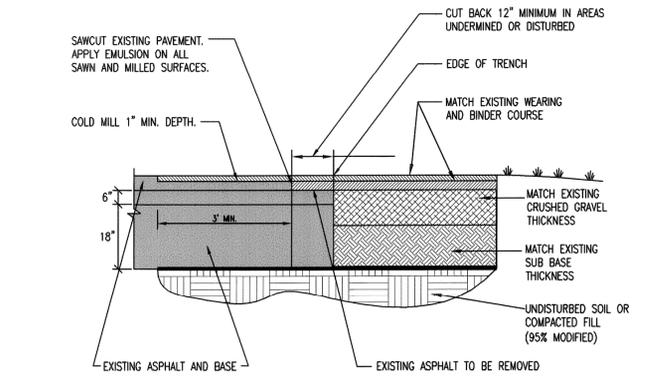
SCALE: NONE



GRAVEL PATH DETAIL

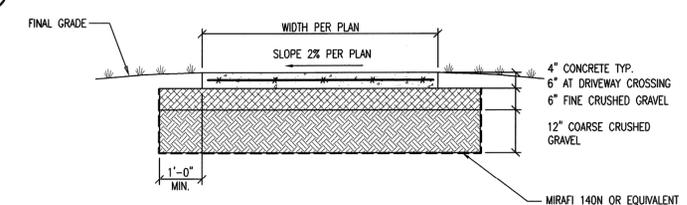
SCALE: NONE

- NOTES:
- EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE.
 - COMPACT ALL FILL MATERIAL TO 95% OPTIMUM DENSITY.
 - REFER TO LANDSCAPE ARCHITECT'S PLANS FOR ADDITIONAL DETAILS.



ASPHALT PAVEMENT TRENCH PATCH DETAIL

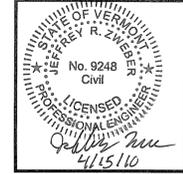
SCALE: NONE



CONCRETE SIDEWALK DETAIL

SCALE: NONE

- CONCRETE SIDEWALK NOTES:
- PLACE A SAWCUT JOINT 1/8" WIDE AND AT LEAST 1/3 OF THE DEPTH, TYPICALLY AT INTERVALS MATCHING THE SIDEWALK WIDTH, OR AS NOTED ON PLANS (NOT TO EXCEED 10'-0").
 - PLACE EXPANSION JOINT AS INDICATED ON PLANS, NOT TO EXCEED 20'-0" MAX.
 - BROOM FINISH, TREAT WITH SILANE-SILOXANE OR EQUAL.
 - CAST-IN-PLACE CONCRETE TO BE 4000 PSI CONCRETE, 5%-7% AIR ENTRAINMENT WITH 6x6-W4.0xW4.0 REINFORCING CENTERED IN SIDEWALK.
 - WHERE SIDEWALK IS ADJACENT TO ENTRY/EXIT DOOR PADS WITH FROST WALL FOUNDATIONS, SIDEWALK SHALL BE DOWELED TO PAD WITH 24" LONG #4 DOWELS (CENTERED) AT 1'-6" OC (PORTION OF DOWEL IN SIDEWALK TO BE GREASED).
 - WHERE SIDEWALK IS ADJACENT TO CURB, BOLLARD OR OTHER HARD FEATURE, INSTALL 1/2" EXPANSION MATERIAL (FULL DEPTH OF SIDEWALK), BETWEEN FEATURE AND SIDEWALK.
 - REFER TO LANDSCAPE ARCHITECT PLANS FOR SURFACE TREATMENT, INTEGRAL COLOR AND SAW CUT PATTERNS.



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Project No. **07-537**
EV#09724

CHARLOTTE CENTRAL SCHOOL RENOVATIONS & NEW SOUTH WING CHARLOTTE, VERMONT

REV: ISSUE PURPOSE:

DATE	SCALE
2010-04-16	

DRAWN BY: JZ/KW

SHEET TITLE:
SITE DETAILS

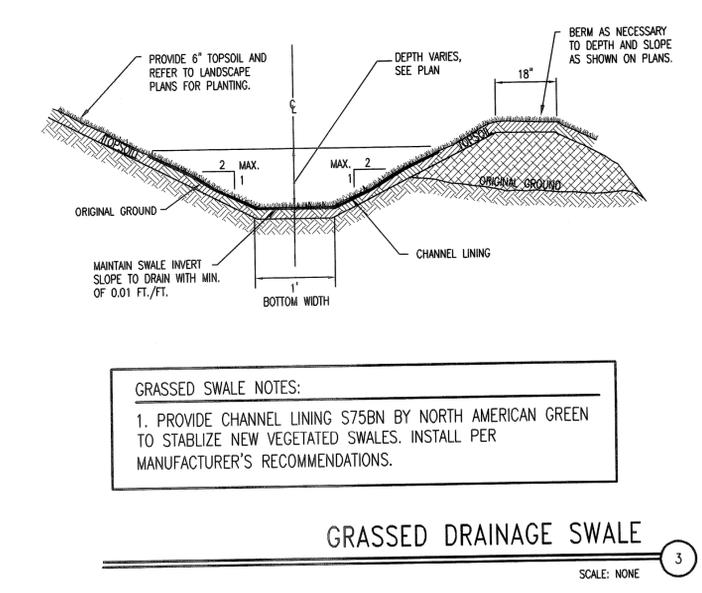
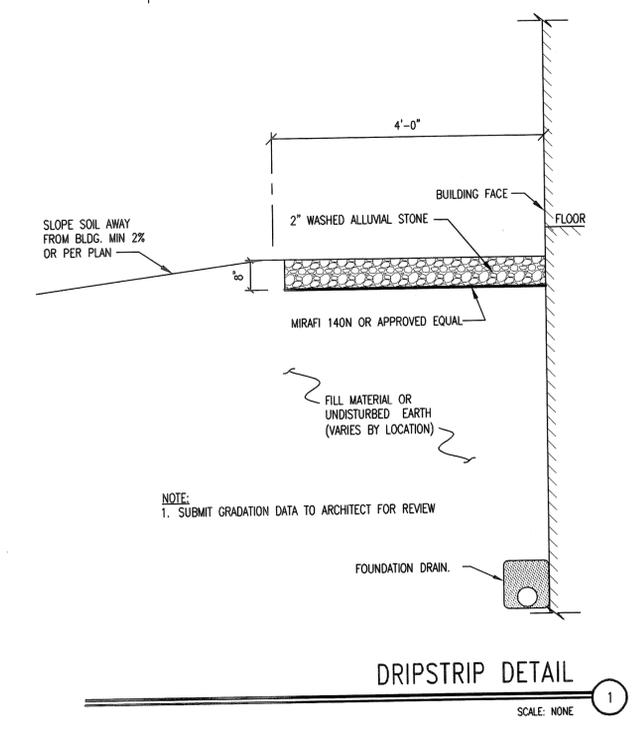
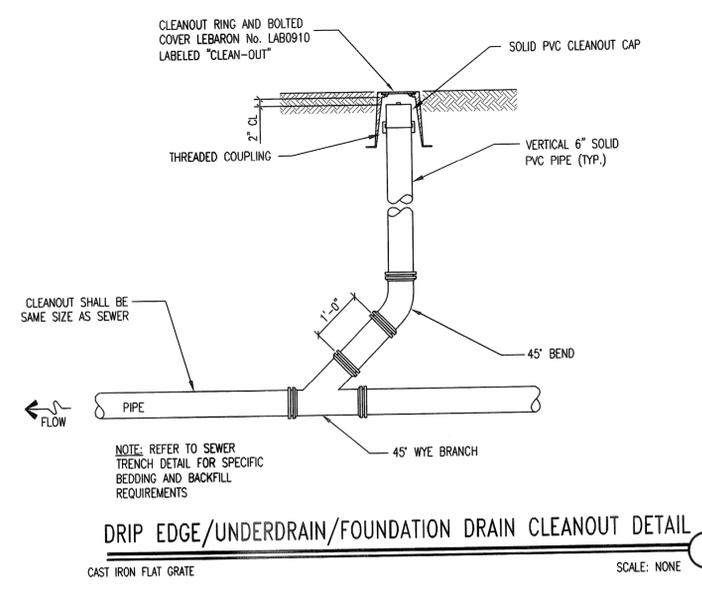
IF THIS SHEET DOES NOT MEASURE 24" X 36", THE SCALES INDICATED HEREIN WILL NOT BE ACCURATE.

THE DATUM MAIN GRADE LEVEL FLOOR ELEVATION FOR THIS PROJECT SHALL BE CONSIDERED TO BE 100'-0". THIS LEVEL CORRESPONDS TO THE SURVEYED ELEVATION 996.81 FT AS INDICATED ON THE CIVIL DRAWINGS.

SHEET #:
C3.1

PERMIT SET

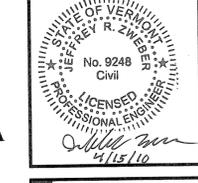
A
B
C
D
E
F
G
H



GRASSED SWALE NOTES:
1. PROVIDE CHANNEL LINING S75BN BY NORTH AMERICAN GREEN TO STABILIZE NEW VEGETATED SWALES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

IF THIS SHEET DOES NOT MEASURE 24" X 36", THE SCALES INDICATED HEREIN WILL NOT BE ACCURATE.
THE DATUM MAIN GRADE LEVEL FLOOR ELEVATION FOR THIS PROJECT SHALL BE CONSIDERED TO BE 100'-0". THIS LEVEL CORRESPONDS TO THE SURVEYED ELEVATION 956.61 FT AS INDICATED ON THE CIVIL DRAWINGS.

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Project No. **07-537**
EV#0972A

CHARLOTTE CENTRAL SCHOOL RENOVATIONS & NEW SOUTH WING CHARLOTTE, VERMONT

REV:	ISSUE PURPOSE:
DATE:	SCALE:
2010-04-16	
DRAWN BY:	CHECKED BY:
	JZ/KW

SHEET TITLE:
STORMWATER DETAILS

SHEET #:
C3.3
PERMIT SET

10 9 8 7 6 5 4 3 2 1