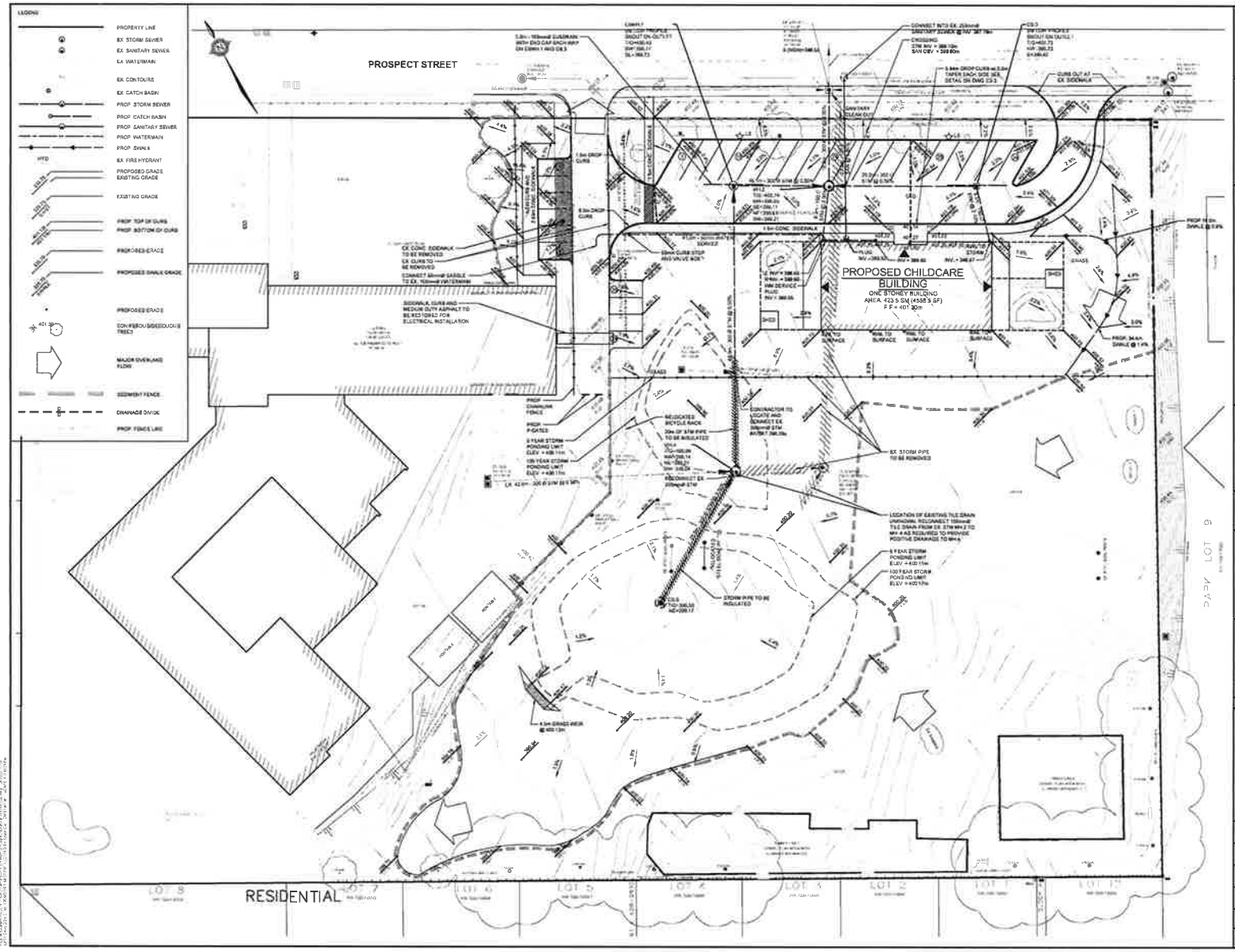


NOTES

1. TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY VAN HARTEN SURVEYING INC. SURVEY DATED 2018-08-29
2. SITE LAYOUT AND LEGAL FABRIC PROVIDED BY VAN HARTEN SURVEYING INC. DATED 2018-08-29
3. STORM AND SANITARY INFORMATION OBTAINED FROM VAN HARTEN SURVEYING INC. SURVEY DATED 2018-08-29
4. DIGITAL FILE NOT TO BE USED FOR LAYOUT
5. REFER TO SITE PLAN/ LANDSCAPING PLAN FOR TREE REMOVAL, PLANTING AND RESTORATION DETAILS
6. CURRENT TOWN OF MINTO MUNICIPAL SERVICING STANDARDS FOR RESIDENTIAL DEVELOPMENT ARE TO BE USED FOR ALL SITE SERVICE INSTALLATION UNLESS OTHERWISE NOTED

1:300 (m)

BENCH MARKS

TEMPORARY BENCHMARK: ELEV = 400.97
NAIL IN HYDRO POLE, MIDDLE FRONT OF PROPERTY

B.J. FRITZ
100210670
OCT 30/18

No.	DATE	REVISION/ISSUE	BY
2	2018-10-30	REVISED PLAN TOWN COMMENTS	B.J.F.
1	2018-09-27	ISSUED FOR REVIEW	B.J.F.
0	2018-09-06	ISSUED FOR REVIEW	B.J.F.

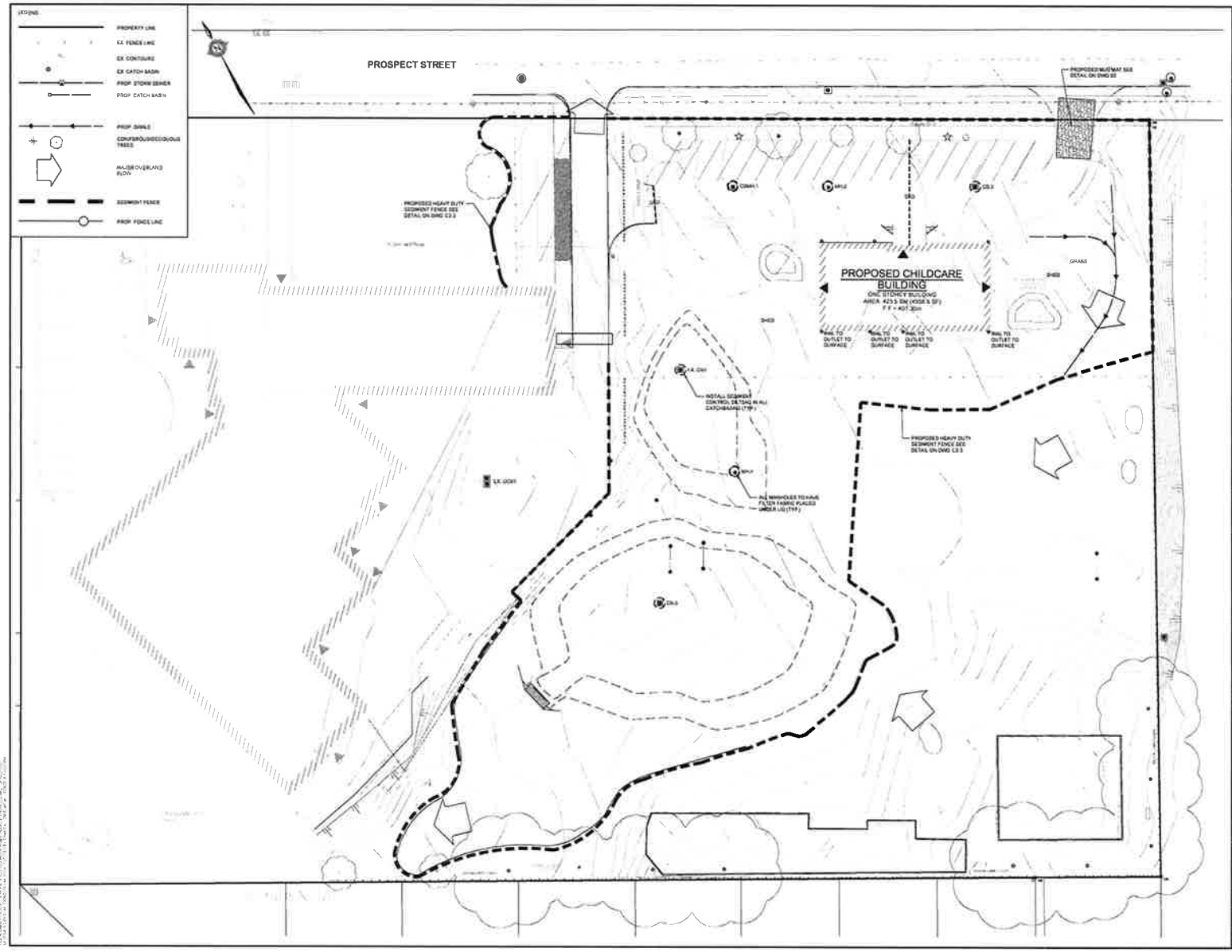
BluePlan ENGINEERING

PALMERSTON CHILDCARE FACILITY
UPPER GRAND DISTRICT SCHOOL BOARD

TOWN OF MINTO

SITE SERVICING AND GRADING PLAN

DRAWN BY	CHECKED BY	PROJECT NO.	DRAWING NO.
C.C.	B.J.F.	118088	C2-1
DESIGNED BY	DATE	SCALE	
B.J.F.	2018-09-06	1:300	



NOTES

1. TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY VAN HARTEN SURVEYING INC. SURVEY DATED 2016-08-25
2. SITE LAYOUT AND LEGAL FABRIC PROVIDED BY VAN HARTEN SURVEYING INC. DATED 2016-08-26
3. STORM AND SANITARY INFORMATION OBTAINED FROM VAN HARTEN SURVEYING INC. SURVEY DATED 2016-08-26
4. DIGITAL FILE MUST TO BE USED FOR LAYOUT
5. REFER TO SITE PLAN/LANDSCAPING PLAN FOR TREE REMOVAL, PLANTING AND RESTORATION DETAILS
6. CURRENT TOWN OF MINTO MUNICIPAL SERVICING STANDARDS FOR RESIDENTIAL DEVELOPMENT ARE TO BE USED FOR ALL SITE SERVICE INSTALLATION UNLESS OTHERWISE NOTED

0 2 4 6 8 10 12
1:500 (m)

BENCH MARKS

TEMPORARY BENCHMARK: ELEV = 400.87
NAIL IN HYDRO POLE, MIDDLE FRONT OF PROPERTY

THE LOCATIONS OF THE UNDERGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND WERE SHOWN THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED

BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR ALL DAMAGE TO THEM

B.J. FRITZ
100210070
OCT. 26/16
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

NO.	DATE	REVISIONS/CORRECTIONS	DRWN
3	2016-10-26	REVISED TO MATCH TOWN COMMENTS	B.J.F.
2	2016-10-07	CHANGED TO CHILDCARE	B.J.F.
1	2016-09-07	ISSUED FOR CHILDCARE	B.J.F.

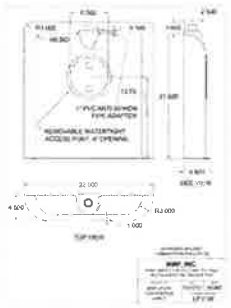
BluePlan ENGINEERING

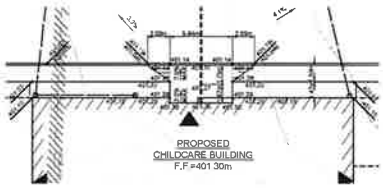
PALMERSTON CHILDCARE FACILITY
UPPER GRAND DISTRICT SCHOOL BOARD
TOWN OF MINTO
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	APPROVED BY	PROJ. #	DRAWING NO.
C.C.	B.J.F.	16-0488	C2-2
DR. CHECKED BY	DATE	SCALE	
B.J.F.	2016-09-08	1:500	

GENERAL NOTES

1. DRAWINGS ARE NOT TO BE SCALED
2. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING
3. UNLESS OTHERWISE NOTED ON THE DRAWINGS THE STANDARD TOWNSHIP REGION (OR COUNTY) MTO AND OPSD DRAWINGS AND OPSS ARE TO CONSTITUTE PART OF THIS CONTRACT AND DRAWINGS
4. REFER TO O.B.C. 2012 STANDARDS AND SPECIFICATIONS AND TOWNSHIP SPECIFICATIONS AND STANDARD DRAWINGS FOR LIST OF APPROVED MANUFACTURERS AND MATERIALS
5. EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACH ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER
6. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNERS CONTRACTOR FROM OBTAINING BUT NOT LIMITED TO THE FOLLOWING PERMITS, ROAD CUTS, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS ETC
7. PRIOR TO CONSTRUCTION THE ENGINEER IS TO BE NOTIFIED BY THE OWNER AND THE CONTRACTOR AS TO THE EXTENT OF THE CONSTRUCTION LIMITS THEY PROPOSE THE TOWNSHIP BUILDING AND PLUMBING OFFICIALS ARE TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION
8. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE SERVICING PLANS, LANDSCAPE PLAN, SITE ELECTRICAL PLANS, AND ANY OTHER PLANS OR DRAWINGS WHICH DEPICT WORKS THAT ARE PROPOSED FOR THIS SITE
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE TOWNSHIP AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ONTARIO
10. THE CONTRACTOR SHALL ENDEAVOUR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAYS AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE TOWNSHIP. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE CONTROLLING MEASURES AS DIRECTED BY THE TOWNSHIP
11. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION. LOCATION OF EXISTING UTILITIES TO BE VERIFIED IN THE FIELD
12. ALL UTILITIES SHALL BE LOCATED, SUPPORTED AND PROTECTED TO THE SATISFACTION OF THE UTILITY COMPANY DURING THE CONSTRUCTION PERIOD
13. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE TOWNSHIP
14. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ANY NECESSARY PERMITS FOR ANY MUNICIPAL ROAD CUTS FOR THE INSTALLATION OF SANITARY, STORM AND WATER SERVICE CONNECTIONS. ROAD CUTS TO BE RESTORED AS PER TOWNSHIP SATISFACTION
15. BLASTING WILL NOT BE ALLOWED UNLESS AUTHORIZED BY THE TOWNSHIP
16. ANY UTILITY RELOCATIONS DUE TO THIS DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER
17. ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF WORK
18. DRIVEWAYS SHALL BE SETBACK A MINIMUM CLEARANCE OF 1.0m FROM ALL ABOVEGROUND SERVICES OR OTHER OBSTRUCTIONS
19. ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS
20. ANY CONFLICTS WITH EXISTING SERVICES SHALL BE RECTIFIED AT THE OWNER'S EXPENSE





PROPOSED
CHILDCARE BUILDING
F.F.=401.30m

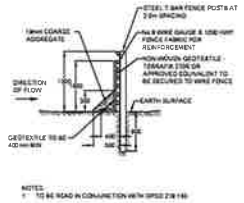
PROPOSED BUILDING
ENTRANCE GRADING DETAIL
SCALE 1:200

SEDIMENT AND EROSION CONTROL NOTES

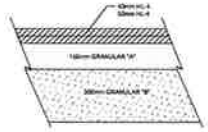
1. SITE WORKS ARE TO BE STAGED IN SUCH A MANNER THAT EROSION WILL BE MINIMIZED AND THAT BARRIERS AND SEDIMENTATION FACILITIES WITHIN THE SITE ARE PROVIDED TO CONTROL ANY EROSION THAT DOES OCCUR
2. ALL SILT FENCING TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY GRADING, EXCAVATION OR DEMOLITION
3. CLEARING AND GRUBBING OF THE SITE SHOULD BE KEPT TO A MINIMUM AND VEGETATION REMOVED ONLY IN ADVANCED OF IMMEDIATE CONSTRUCTION
4. STOCKPILES OF EARTH OR TOPSOIL ARE TO BE LOCATED AND PROTECTED TO MINIMIZE ENVIRONMENTAL INTERFERENCE. STOCKPILES SHOULD NOT BE LOCATED IMMEDIATELY ADJACENT TO DITCHES OR ROAD ALLOWANCES. EROSION CONTROL FENCING IS TO BE INSTALLED AROUND THE BASE OF ALL STOCKPILES. A PERIMETER DITCH LEADING TO A SETTLING AREA OR SEDIMENTATION TRAP SHOULD BE INSTALLED AROUND THE STOCKPILE
5. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLES, CATCH BASINS, DITCHES, SWALES AND WATERCOURSES
6. ADDITION EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. THE CONTRACTOR IS TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES
7. THE CONTRACTOR IS TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO TOWNSHIP REQUIREMENTS
8. EROSION CONTROL STRUCTURES ARE TO BE MONITORED REGULARLY AND ANY DAMAGE TO STRUCTURES REPAIRED IMMEDIATELY. SEDIMENTS ARE TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 50% OF THE FENCE. CLOGGED FILTER MATERIALS SUCH AS CRUSHED STONE, STRAW BALES OR FILTER CLOTH MUST BE REPLACED AS REQUIRED
9. ALL EROSION CONTROL STRUCTURES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER
10. NO ALTERNATIVE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE DESIGN CONSULTANT AND THE TOWNSHIP
11. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MUNICIPAL ROADWAYS AND SIDEWALKS AREA CLEAN FREE OF ALL SEDIMENTS FROM VEHICULAR TRACKING ETC. TO AND FROM THE SITE AT THE END OF EACH WORK DAY
12. ALL DISTURBED AREAS NOT INCLUDED IN CONSTRUCTION TO BE RE-TOPSOILED AND RE-SEEDED IMMEDIATELY AFTER COMPLETION OF AREA GRADING

SERVICING NOTES - STORM

1. ALL STORM SEWERS 375mm Ø AND SMALLER TO BE PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2 ASTM D-2729 AND ASTM D-3034 OR LATEST REVISIONS. 450mm Ø AND LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A257.2, CLASS 65D OR LATEST REVISIONS UNLESS OTHERWISE NOTED
2. BEDDING FOR PVC STORM SEWERS AS PER OPSD 802.010 GRANULAR 'A' COMPACTED TO 95% SPD
3. EXISTING SEWER INVERTS, MATERIAL TYPE AND SIZE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION
4. ALL CATCHBASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010 OR OPSD 705.020. ALL CATCHBASIN FRAMES AND COVERS AS PER OPSD 400.100
5. ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
6. ALL 450mmØ PIPES AND UNDER REQUIRE A 600mm SUMP IN CATCHBASINS AND MANHOLES. BENCHING IS REQUIRED FOR PIPES 450mmØ AND GREATER



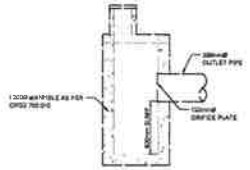
SEDIMENT FENCE
HEAVY DUTY - NO TRENCH
N.T.S.



ASPHALT PAVEMENT (PARKING AND DRIVEWAY)
(MEDIUM DUTY)
N.T.S.

GRADING

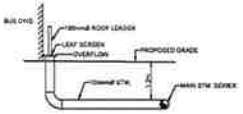
1. THE GRADING PLAN IS TO BE READ WITH THE SITE SERVICES DRAWINGS
2. CONTRACTOR TO RESTORE AREAS ON PUBLIC R.O.W. OR ADJACENT LANDS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION
3. ALL DRIVEWAY AND GRADING MATERIAL AND CONSTRUCTION METHODS MUST CONFORM TO CURRENT TOWNSHIP STANDARDS AND SPECIFICATIONS
4. ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MIN. OF 95% SPD PROCTOR DRY DENSITY. ALL FILL WITHIN THE SITE PARKING AREA TO BE COMPACTED TO A MIN. OF 98% SPD. THE SUITABILITY OF ALL FILL MATERIALS ARE TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT TO THE DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS
5. LANDSCAPING SHALL NOT ENCROACH ON BOULEVARD OR SHALL BOULEVARD GRADES BE ALTERED
6. SILT FENCED TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS. SILTATION CONTROL SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL BE IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASES
7. ANY CHANGES IN GRADES, CATCH BASINS, SERVICES LATERALS, STORM AND SANITARY SEWERS REQUIRE THE APPROVAL OF GM BLUEPLAN ENGINEERING LIMITED
8. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF GM BLUEPLAN ENGINEERING LIMITED
9. ALL LANDSCAPING TO BE INSTALLED AS SOON AS POSSIBLE OR PRIOR TO THE END OF THE FIRST GROWING SEASON. LANDSCAPING TO BE MAINTAINED UNTIL IT IS ESTABLISHED
10. ALL COMPACTION TO BE CERTIFIED BY A GEOTECHNICAL CONSULTANT
11. ALL GUARDS ARE TO BE 150mm ABOVE THE PROPOSED GUTTER LINE (GL) UNLESS NOTED OTHERWISE
12. PAVEMENT GRADE SHALL BE MIN. 0.5% MAX. 8%
13. DRIVEWAY SINGLE GRADE SHALL BE MIN. 2% MAX. 8%
14. SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS NOTED OTHERWISE



OUTLET STRUCTURE
DETAIL - WITH ORIFICE
N.T.S.

GENERAL TESTING AND INSPECTION NOTES

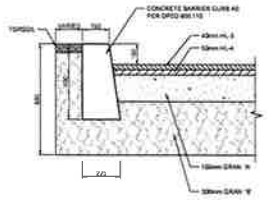
1. TESTING OF ALL SERVICES BY GENERAL CONTRACTOR
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING GM BLUEPLAN ENGINEERING LIMITED FOR THE COMPLETION OF ALL REQUIRED SITE INSPECTIONS
3. ALL STORM SEWERS ARE TO BE MANDREL TESTED PRIOR TO FINAL ACCEPTANCE BY THE ENGINEER. ALL MANDREL TESTING AS PER OPSS 410
4. ALL STORM REQUIRE FIELD INSPECTION BY THE SITE SERVICING ENGINEERING DURING INSTALLATION. INSPECTION SERVICES REQUIRE A MINIMUM OF 4 HOURS NOTICE
5. 50mm DIAMETER WATER SERVICE TO BE FLUSHED AND BACTERIOLOGICAL TESTED PRIOR TO CONNECTION AT BUILDING. TEST SAMPLES SHALL NOT DETECT E. COLI AND TOTAL COLIFORM



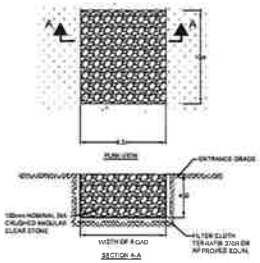
ROOF LEADER DISCHARGE DETAIL
N.T.S.

MINIMUM BURY DEPTHS FOR SERVICE PIPING	
SERVICE	MINIMUM BURY DEPTH
STORM SEWER	1.2m COVER
WATERMAIN	2.0m COVER
SAN TARY SEWER	2.0m COVER

TYPICAL STORM PIPE INSULATION DETAIL
N.T.S.



PARKING AND CURB DETAIL
N.T.S.



NOTES

1. THE CONTRACTOR SHALL INSPECT ENTRANCE PROTECTION MAT WEEKLY AS WELL AS AFTER ANY RAINFALL EVENT GREATER THAN 13mm
2. SHOULD THE ENTRANCE PROTECTION MAT NOT BE FUNCTIONING AS DESIGNED THE CONTRACTOR SHALL REPLACE THE CLEAR STONE IMMEDIATELY

ENTRANCE PROTECTION
MUD MAT DETAIL
N.T.S.

KEY PLAN
NOT TO SCALE

NOTES

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BENCH MARKS
TEMPORARY BENCHMARK:- ELEV = 400.87
NAIL IN HYDRO POLE, MIDDLE FRONT OF PROPERTY

THE POSITION OF PIPES AND CONDUITS INFORMATION SHOWN ON THE CONTRACT DRAWINGS AND MAY BE SHOWN THE ACCURACY OF THE POSITION OF NON-UNIQUE LANDSTRUCTURES IS NOT GUARANTEED

BEFORE STARTING WORK, THE CONTRACTOR SHALL ANSWER MYSELF OF THE EXACT LOCATION OF ALL BURIED UTILITIES AND STRUCTURES AND SHALL PROVIDE ALL PROTECTION AND TEMPORARY SUPPORT

LICENSED PROFESSIONAL ENGINEER
B.J. FRITZ
100210670
OCT. 26/16
PROVINCE OF ONTARIO

No.	DATE	REVISION	BY
3	2016-10-26	REVISED PER TOWN COMMENTS	B.J.F.
2	2016-10-07	ISSUED FOR SPA	B.J.F.
1	2016-09-30	ISSUED FOR REVIEW	B.J.F.

BluePlan ENGINEERING

GUELPH | WATERLOO | WOODSTOCK | LONDON | HAMILTON | CITY
432 WOOLWICH ROAD, UNIT 1, GUELPH, ON N1G 3X7
TEL: 519-824-8150 www.gmblueplan.ca

PALMERSTON CHILDCARE FACILITY
UPPER GRAND DISTRICT SCHOOL BOARD

TOWN OF MINTO

NOTES AND DETAILS

DRAWN BY	APPROVED BY	PROJECT NO.	DRAWING NO.
C.C.	B.J.F.	16-0088	C2-3
SEPTEMBER 2016	DATE 2016-09-30	SCALE AS NOTED	