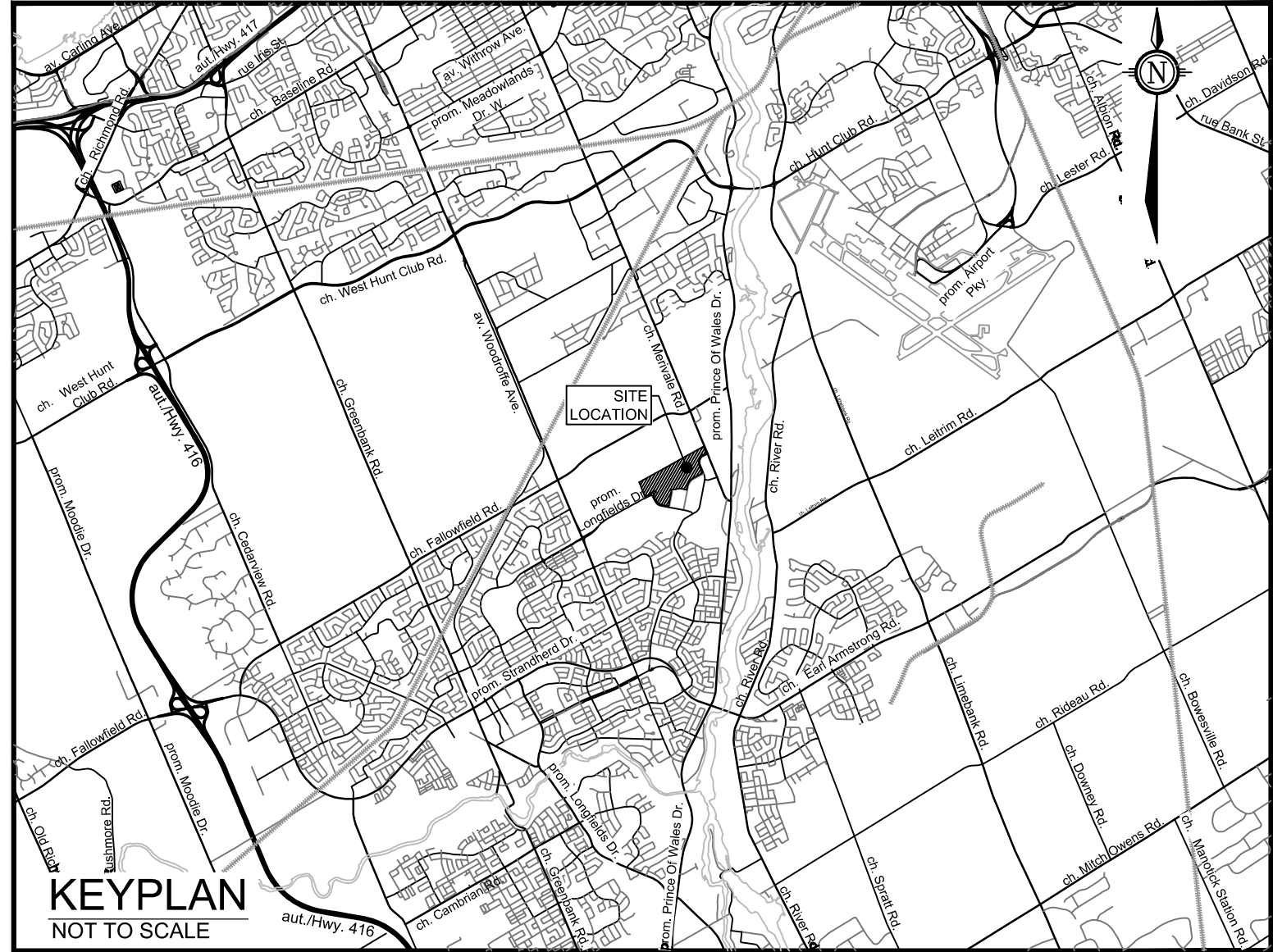


SORTATION FACILITY

99 BILL LEATHEN DR, 2 & 20 LEIKIN DR,
CITY OF OTTAWA

ROADS, SEWERS AND WATERMAINS



PROJECT No. 121137

REVISED PER CITY COMMENTS

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121137-NDGR	NOTES AND DETAILS GRADING PLAN
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121137-GP2	GENERAL PLAN OF SERVICES NORTH-EAST DEVELOPMENT
121137-GP3	GENERAL PLAN OF SERVICES SOUTH-WEST DEVELOPMENT
121137-GP4	GENERAL PLAN OF SERVICES SOUTH-EAST DEVELOPMENT
121137-GP5	GENERAL PLAN OF SERVICES PRIVATE ROAD
121137-GRO	GRADING PLAN OVERALL DEVELOPMENT
121137-GR1	GRADING PLAN NORTH-WEST DEVELOPMENT
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121137-GR5	GRADING PLAN PRIVATE ROAD
121137-GR6	GRADING PLAN DETAILS
121137-GR7	GRADING PLAN DETAILS
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121137-REVISED PER CITY COMMENTS-AUGUST 06/2021

GENERAL NOTES:

- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THIS DRAWING.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARKS ARE THE FIRE HYDRANT TOP OF SPINDLE FOR 3 HYDRANTS WITHIN THE SMP. BM NO.1 IS LOCATED AT THE SOUTH-EAST CORNER OF THE LONGFIELD DRIVE AND BILL LEATHAM DRIVE ROUND-A-BOUT. BM NO.2 IS LOCATED AT THE SOUTH SIDE OF THE LEIKIN AND MERIVALE ROAD INTERSECTION. BM NO.3 IS LOCATED ON THE EAST SIDE OF PARAGON DRIVE PRIOR TO THE CUL-DE-SAC. (BM NO. 1 ELEV = 91.88, BM NO. 2 ELEV = 91.88, BM NO. 3 ELEV = 91.94). REFER TO AINS, O'SULLIVAN, VOLLEBERG LTD. TOPOGRAPHICAL PLAN OF SURVEY PART OF LOTS 18 AND 19, CONCESSION 1 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF REPEAN.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. 1 REV 3, PROPOSED SORTATION FACILITY, (DATED JULY 27, 2021) PREPARED BY GHD, FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
- REFER TO THE STORMWATER MANAGEMENT REPORT NO. R-2021-078, DATED AUGUST 06, 2021 PREPARED BY NOVATECH.
- SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10 AND R25).

GRADING NOTES:

- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED BUILDING AND PAVED AREAS.
- EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
- THE PAVEMENT GRANULAR BASE AND SUBBASE SHOULD BE PLACED IN MAXIMUM 300mm THICK LAYS AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- ALL CURBS AND SIDEWALKS TO BE BUILT AS PER CITY OF OTTAWA DETAIL DRAWINGS SC1.4 AND SC4.
- GRADE AND/OR FILL BEHIND PROPOSED CURB AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY DESIGN GRADE SHOWN ON THIS PLAN.

PAVEMENT STRUCTURES:

LIGHT DUTY (CAR PARKING AREAS ONLY)
 70mm OPSS 1150 HL1 HOT MIX
 300mm GRANULAR "A"
 400mm GRANULAR "B" TYPE II

OR

40mm OPSS 1150 HL1 HOT MIX
 50mm OPSS 1150 HL8 HS HOT MIX
 300mm GRANULAR "A"
 300mm GRANULAR "B" TYPE II

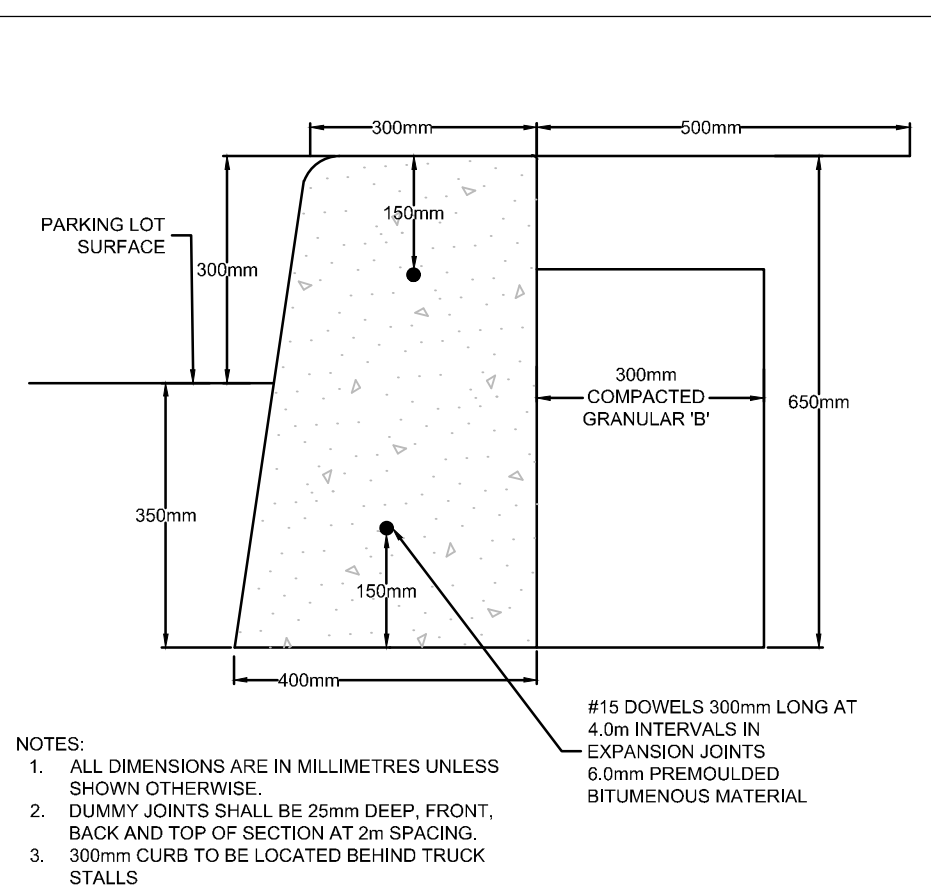
SEPARATION LAYER - GEOTEXTILE - WOVEN TERRAFIX 2000W OR APPROVED EQUIVALENT

HEAVY DUTY (ACCESS LANES AND HEAVY TRUCK PARKING)
 40mm OPSS 1150 HL1 HOT MIX
 60mm OPSS 1150 HL8 HS HOT MIX
 60mm OPSS 1150 HL8 HS HOT MIX
 300mm GRANULAR "A"
 500mm GRANULAR "B" TYPE II

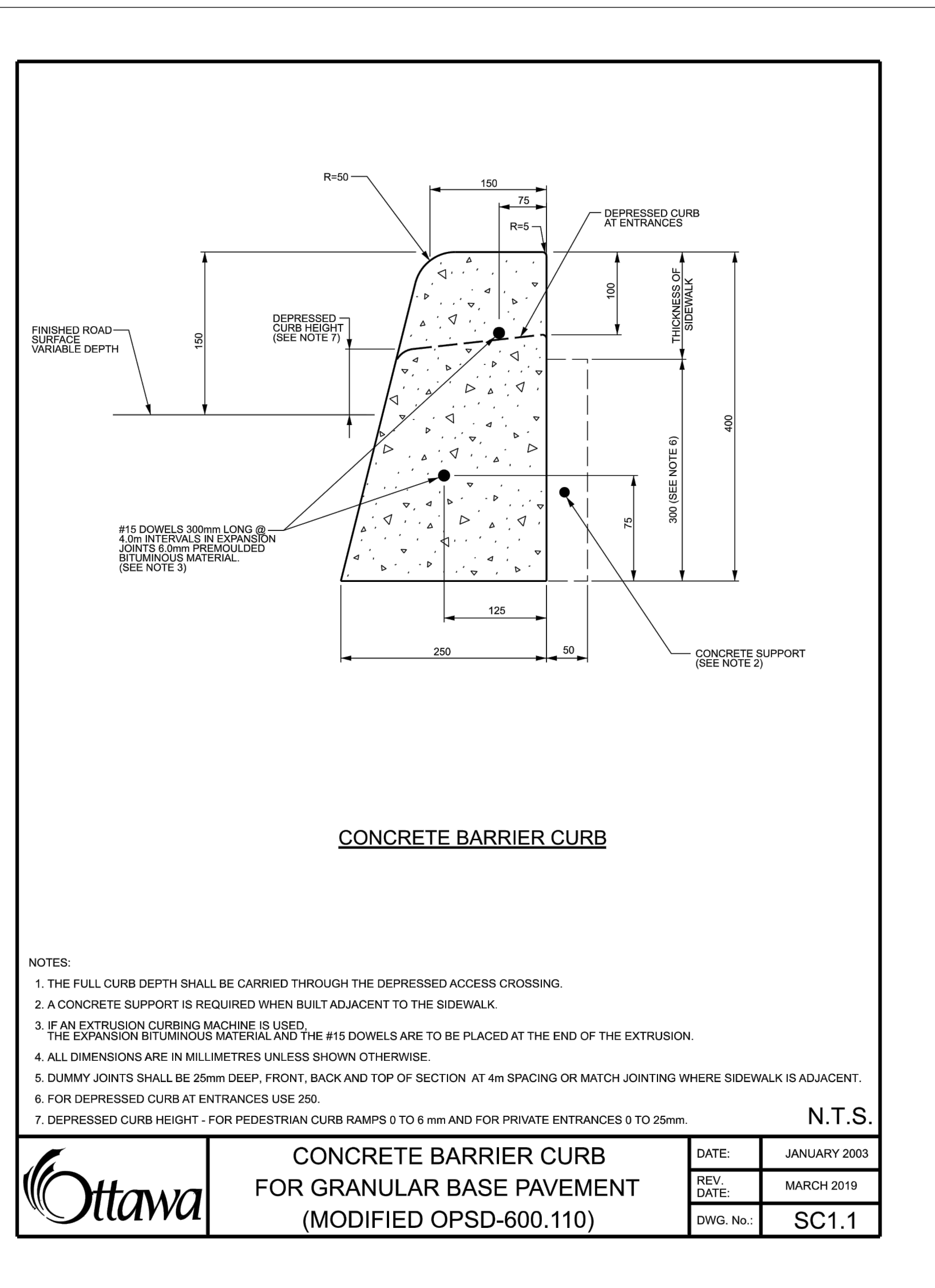
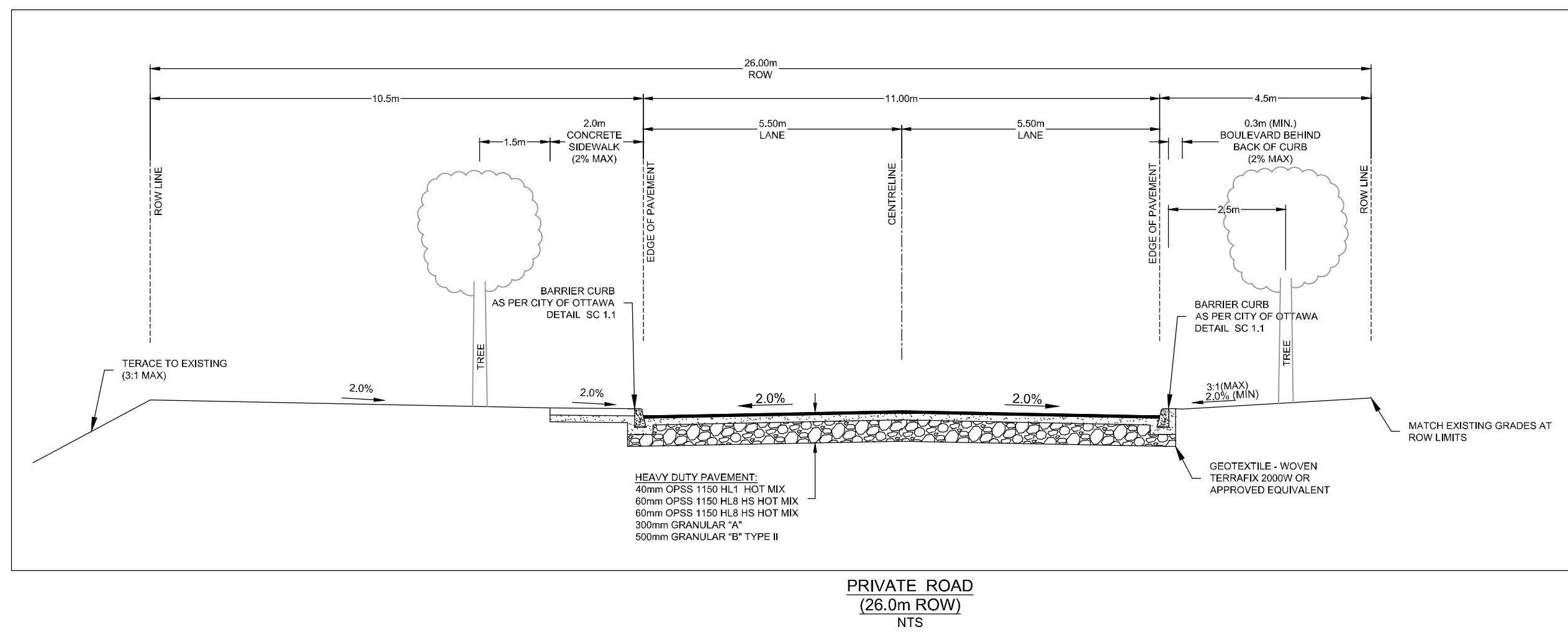
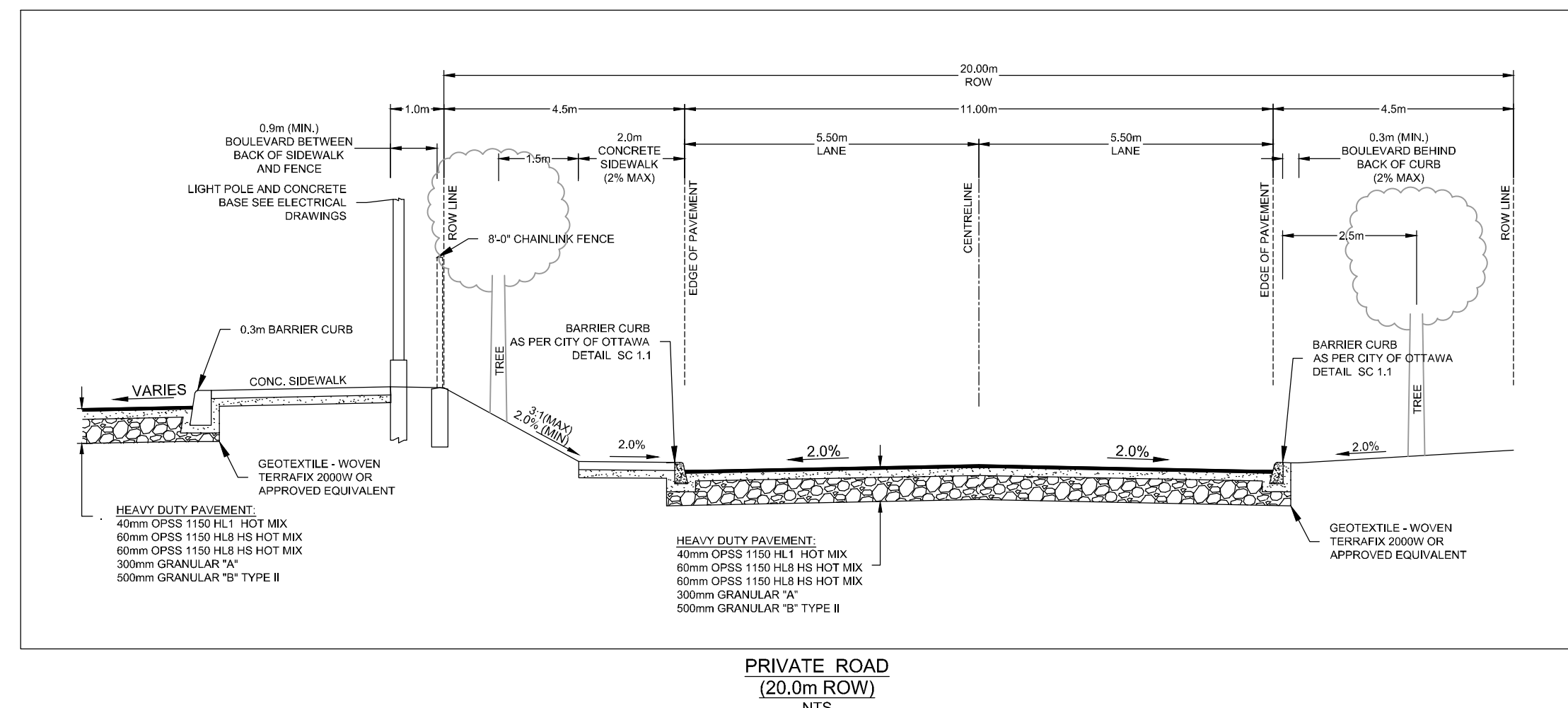
SEPARATION LAYER - GEOTEXTILE - WOVEN TERRAFIX 2000W OR APPROVED EQUIVALENT

CONCRETE APRONS
 225mm REINFORCED CONCRETE
 300mm GRANULAR "A"
 300mm GRANULAR "B" TYPE II
 975mm GRAN "B" TYPE I

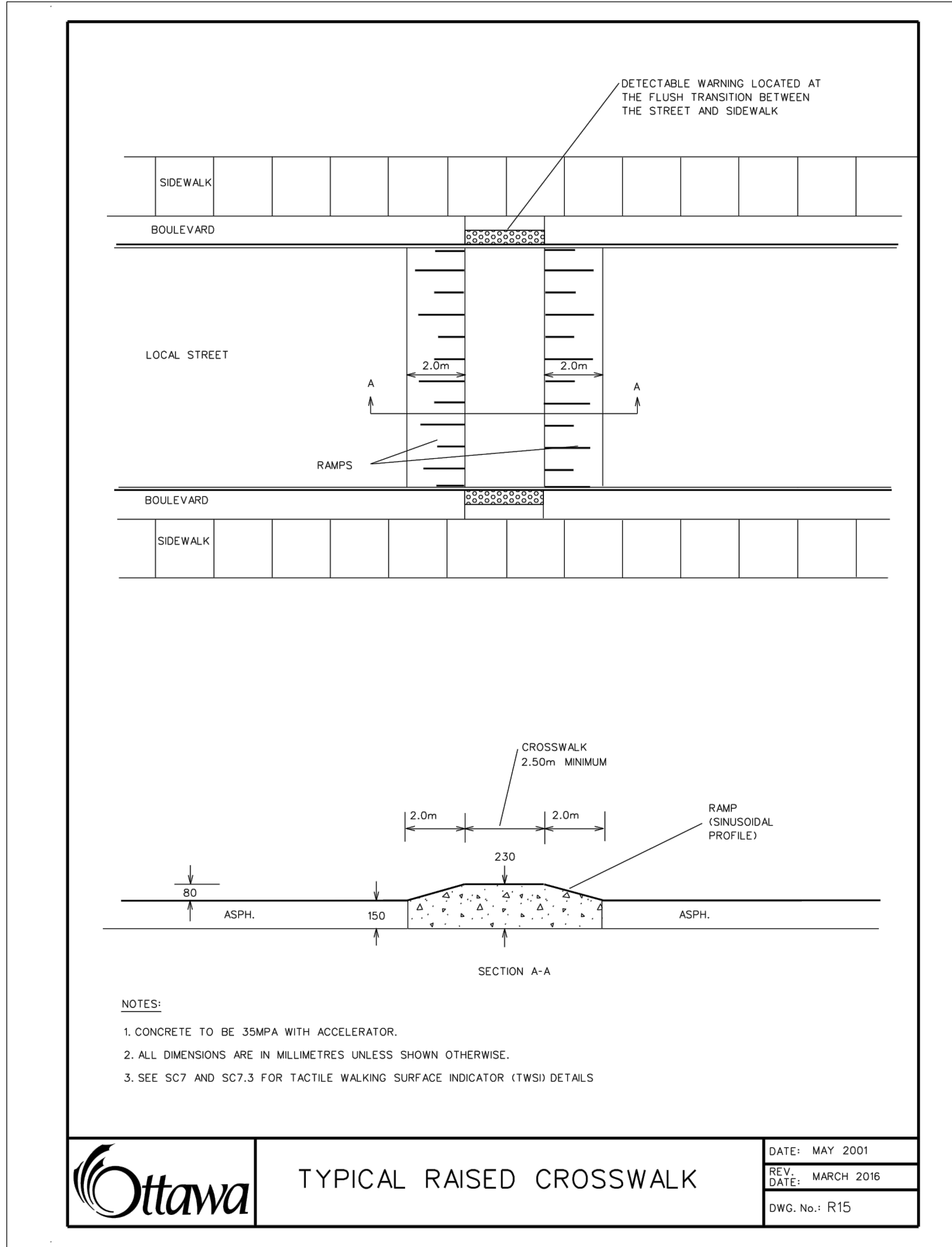
SEPARATION LAYER - GEOTEXTILE - WOVEN TERRAFIX 2000W OR APPROVED EQUIVALENT



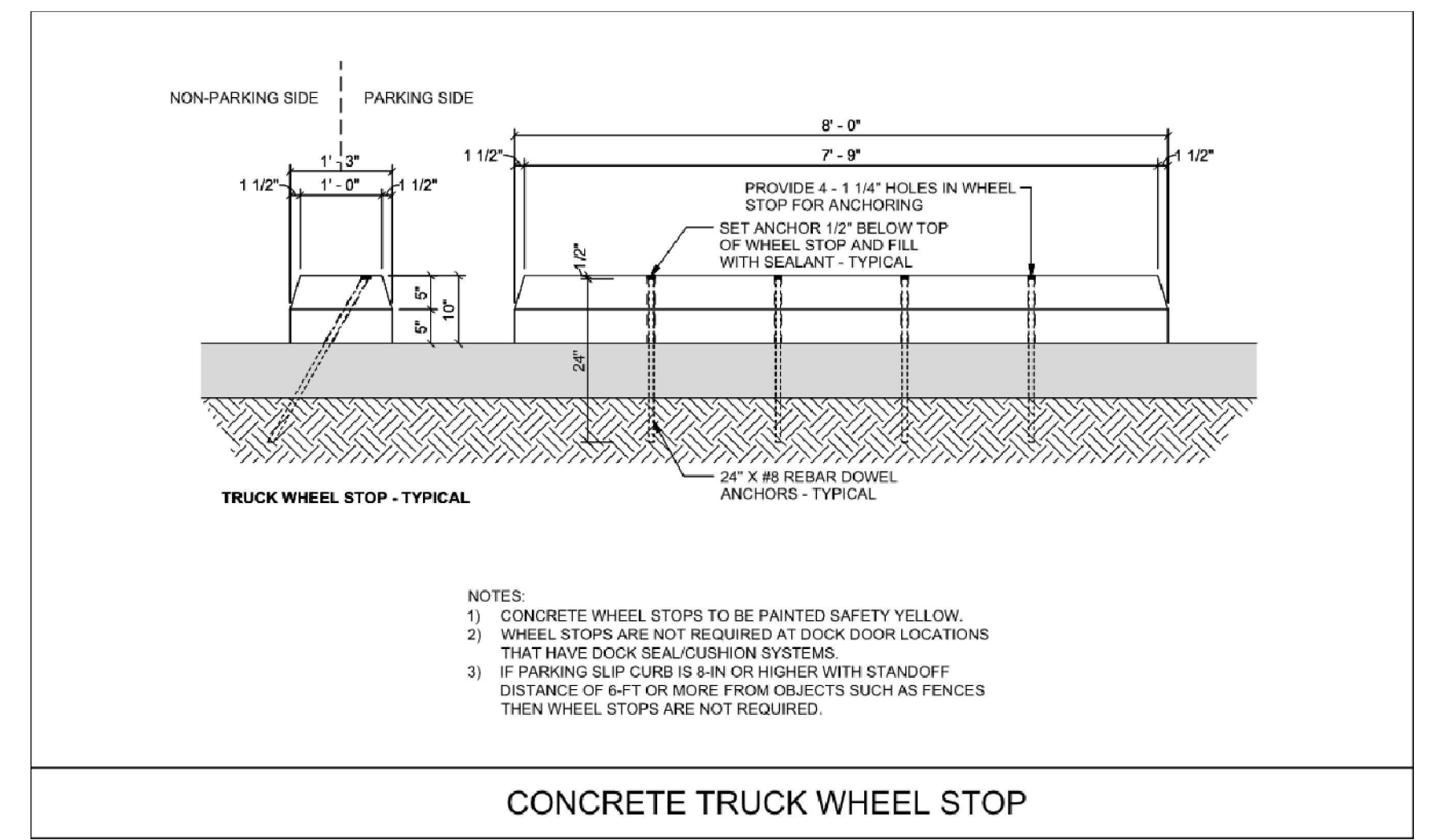
300mm CONCRETE BARRIER CURB DETAIL
 SCALE = N.T.S.



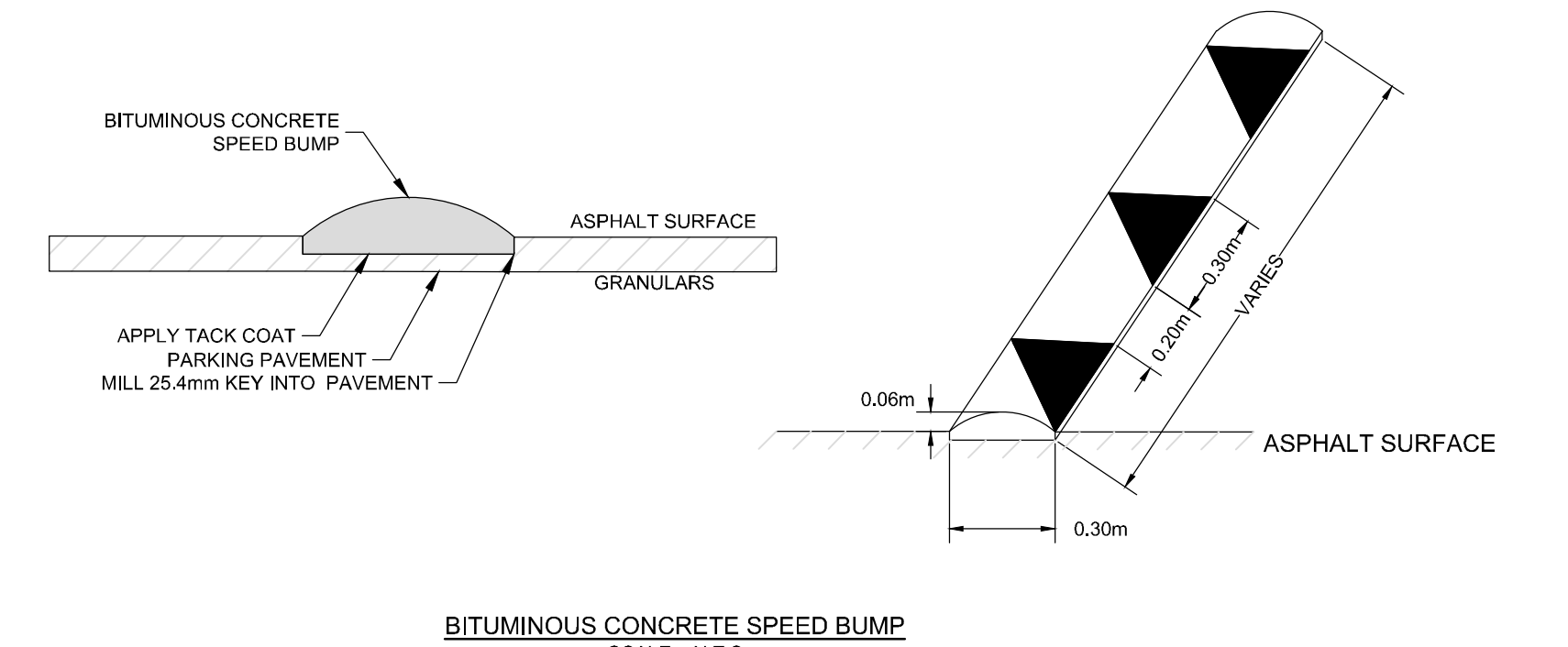
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)
 DATE: JANUARY 2003
 REV. DATE: MARCH 2019
 DWG. No.: SC1.1



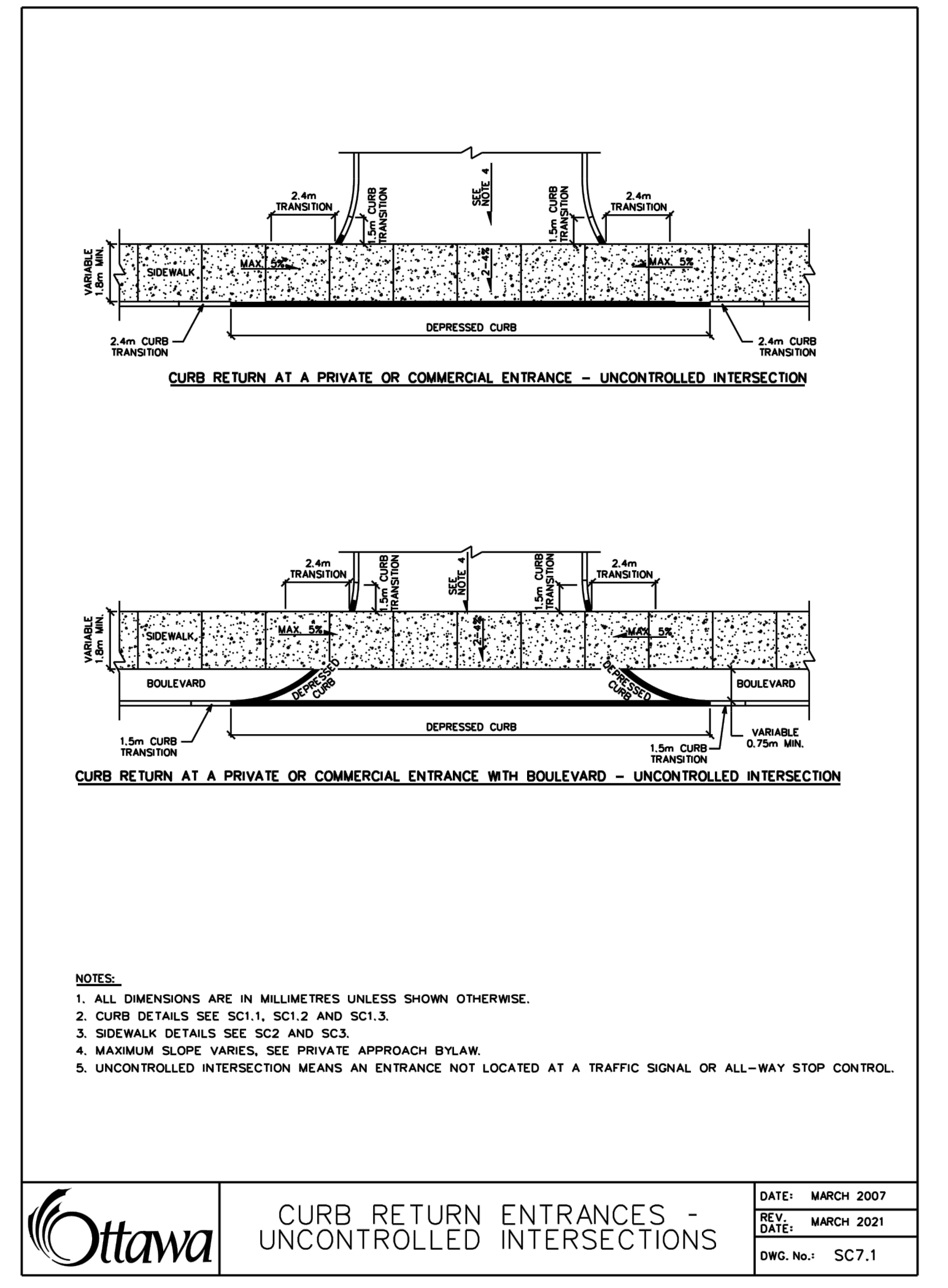
TYPICAL RAISED CROSSWALK
 DATE: MAY 2001
 REV. DATE: MARCH 2016
 DWG. No.: R15



CONCRETE TRUCK WHEEL STOP



BITUMINOUS CONCRETE SPEED BUMP
 SCALE = N.T.S.



CURB RETURN ENTRANCES - UNCONTROLLED INTERSECTIONS
 DATE: MARCH 2007
 REV. DATE: MARCH 2021
 DWG. No.: SC7.1

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Owner:
 Medusa LP
 c/o Russell Beach
 16766 rd Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH

SCALE	DESIGN	CHECKED	DRAWN	APPROVED
AS SHOWN	MJH/ARM	JLS	MJH/ARM	JLS

NOVATECH
 Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Cowpland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone: (613) 254-9643
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 Website: www.novatech-eng.com

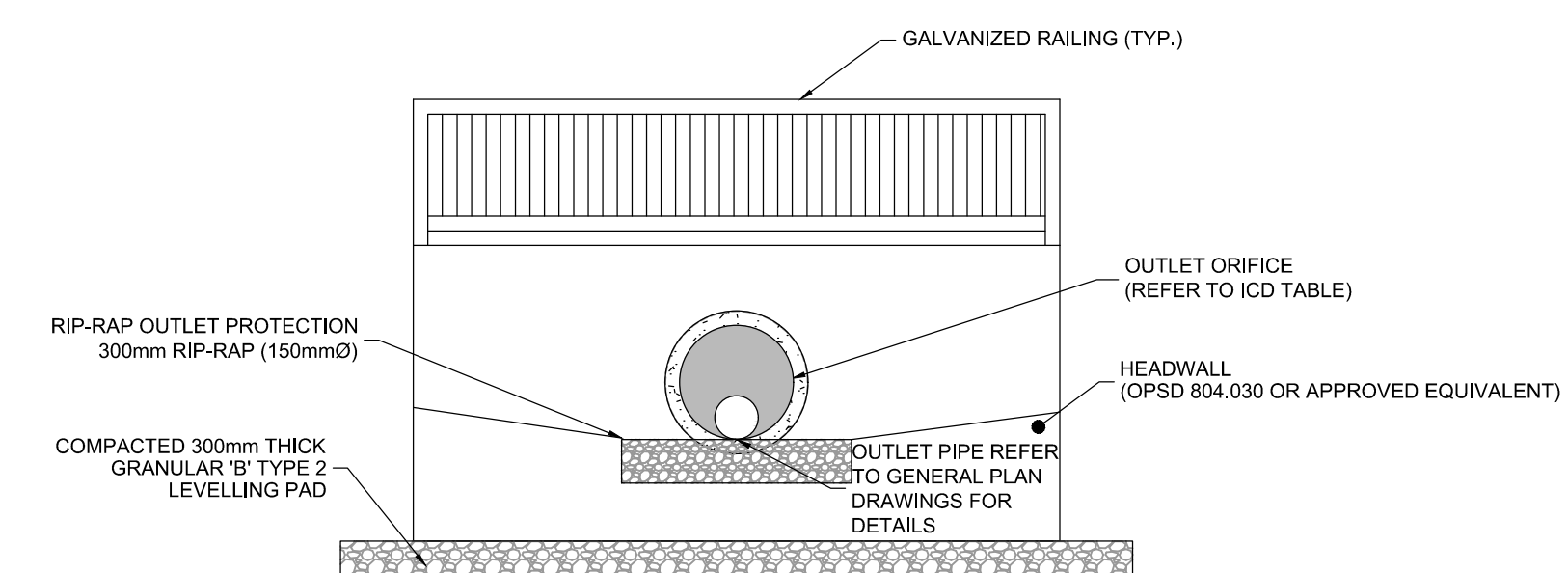
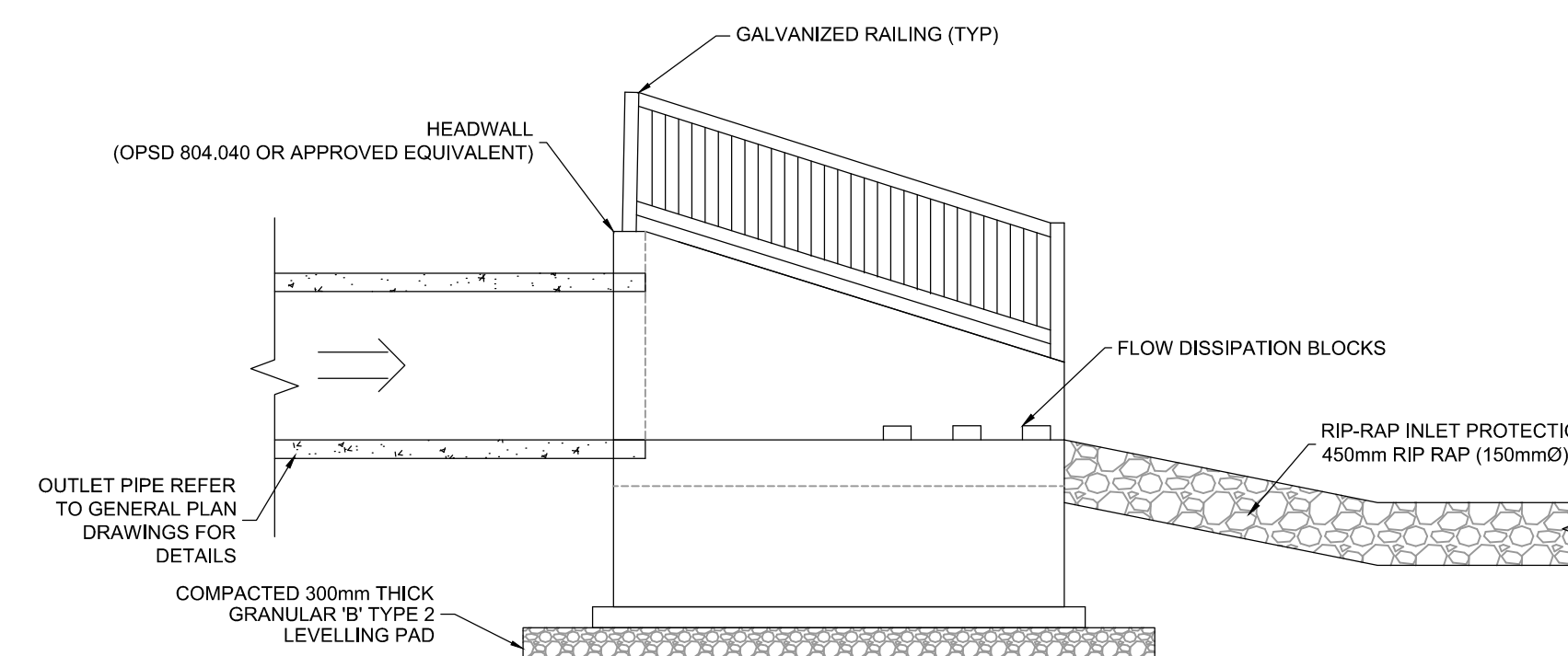
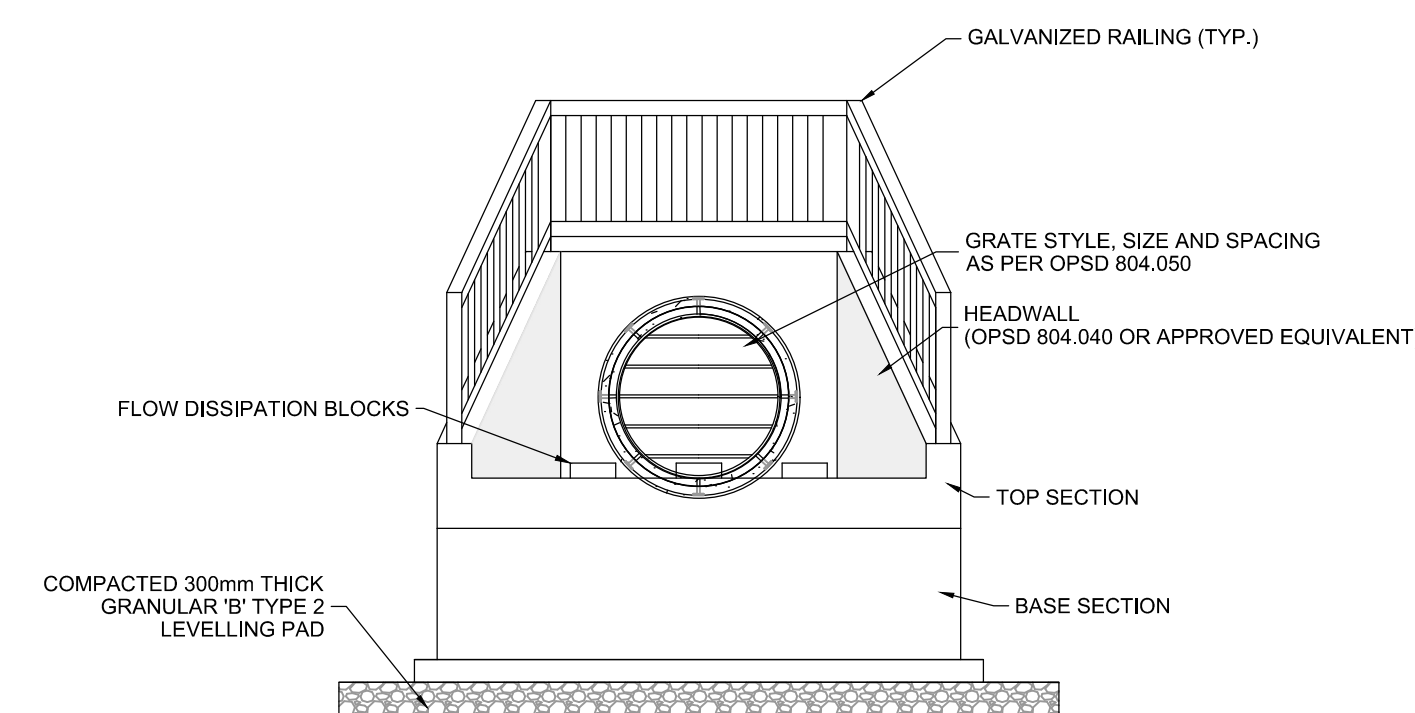
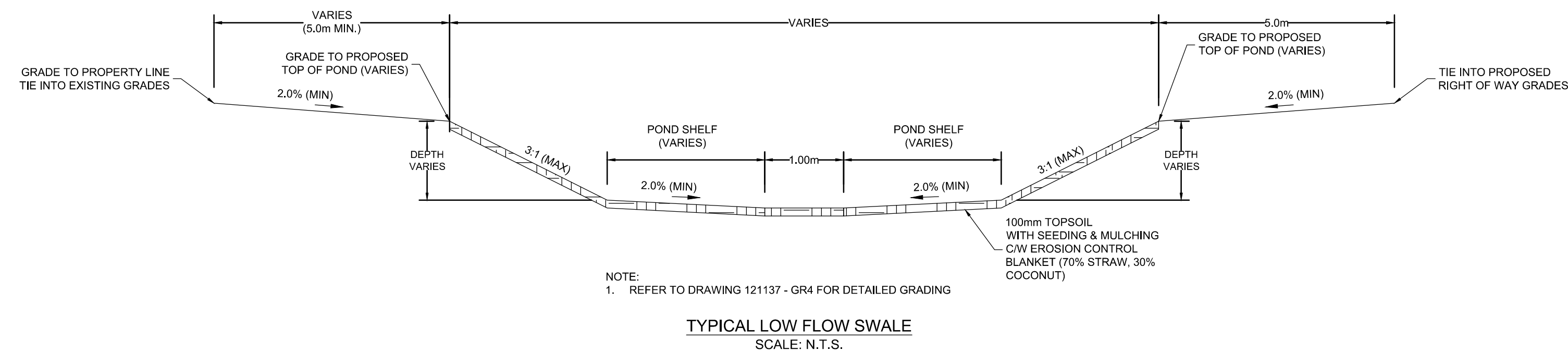
LOCATION
 SORTATION FACILITY
 99 BILL LEATHAM DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA

DRAWING NAME
 NOTES AND DETAILS
 GRADING PLAN

PROJECT No.: 121137
 REV. #4
 DRAWING No.: 121137-NDGR
 PLAN # 18474

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D07-12-21-0079



INLET CONTROL DEVICE TABLE:

LOCATION	ICD SIZE	ICD INVERT (m)	5-YR ELEVATION (m)	5-YR HEAD (m)	5-YR FLOW (L/S)	100-YR ELEVATION (m)	100-YR HEAD (m)	100-YR FLOW (L/S)	REQUIRED 100-YR STORAGE VOLUME (m³)	PROVIDED STORAGE VOLUME (m³)
CBMH 100	220mm	87.80	89.82	1.91	145.79	90.34	2.43	160.26	503	986
CBMH 200	240mm	86.76	89.01	2.13	170.72	89.45	2.57	189.2	480	873
HW 3001	570mm	87.00	88.34	1.06	611.23	89.14	1.855	832.59	6745	8993

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16766 rte Trans-Canada, Suite 500
Kirkland, Quebec
H9H 4M7

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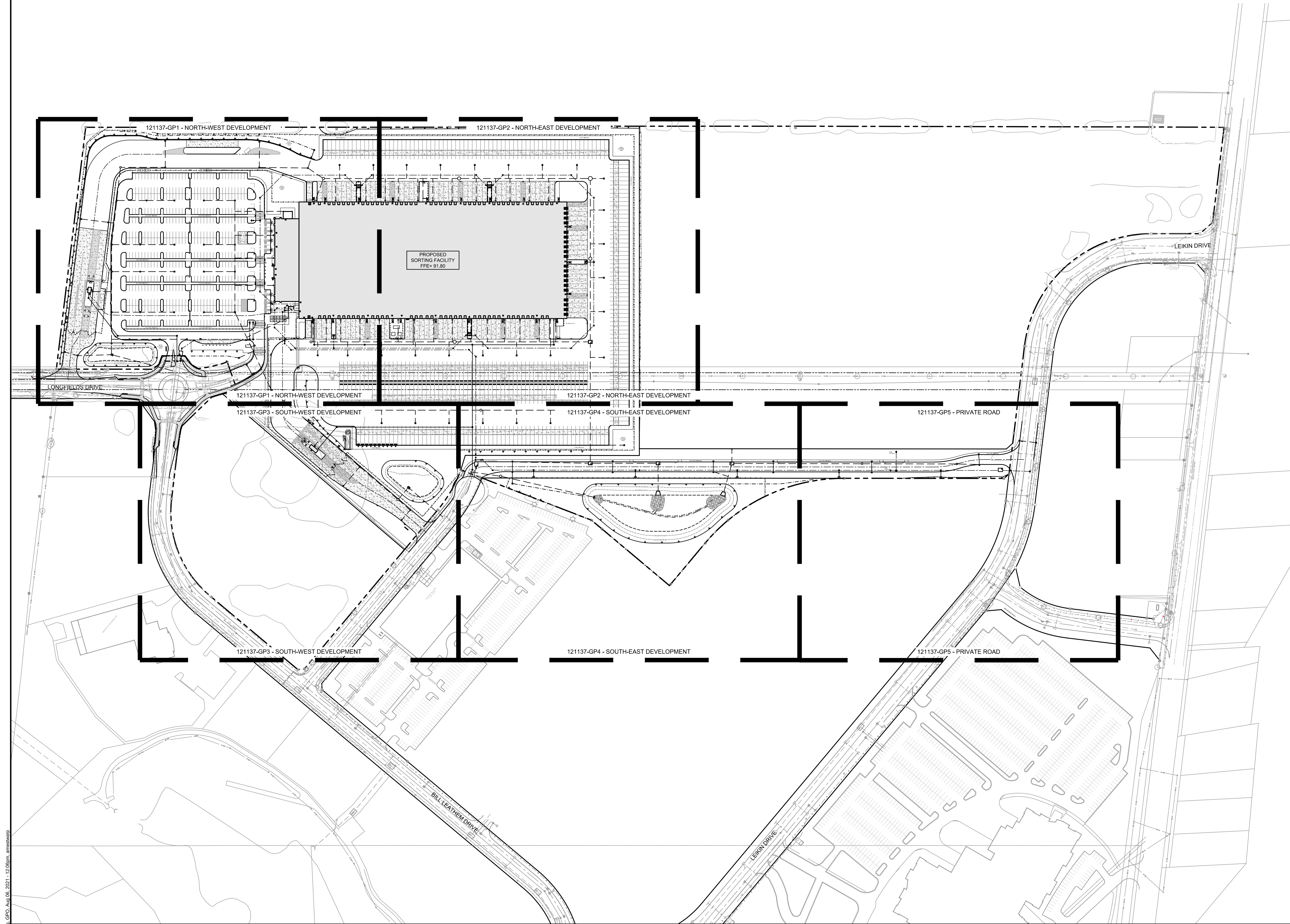
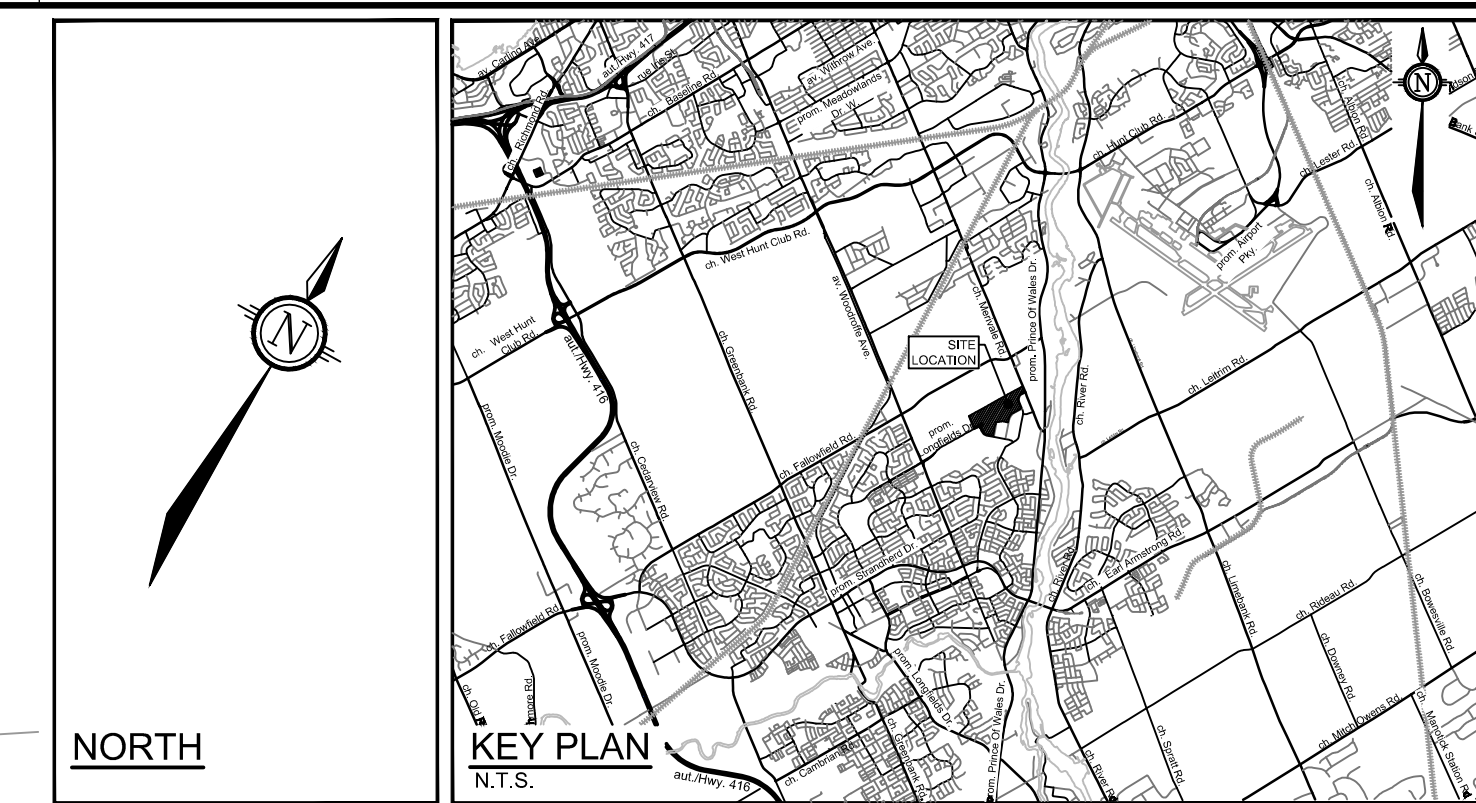
SCALE	DESIGN	CHECKED	DRAWN	APPROVED
AS SHOWN	MJH/ARM	JLS	MJH/ARM	JLS

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Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION		PROJECT NO.
SORTATION FACILITY 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA		121137
DRAWING NAME		REV #4
NOTES AND DETAILS PONDS		873
DRAWING NO.		121137-NDPND
PLAN # 18474		

D07-12-21-0079



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC --- PROPOSED DEPRESSED CURB
 - FC --- PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
 - PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED BOX MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (ORSD B04.040) c/w GALVANIZED RAILING
 - PROPOSED HEADWALL (ORSD B04.030) c/w GALVANIZED RAILING
 - PROPOSED INLET CONTROL DEVICE
 - PROPOSED WATER SERVICE
 - PROPOSED WATER METER CHAMBER
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&V --- PROPOSED VALVE AND VALVE BOX
 - PIV --- PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
 - EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
 - EXISTING UTILITY POLE c/w GUY WIRES
 - V&V --- EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
 - EXISTING HYDRANT c/w VALVE & LEAD
 - SAN --- EXISTING SANITARY MANHOLE & SEWER
 - STMM --- EXISTING STORM MANHOLE & SEWER
 - CB --- EXISTING CATCHBASIN
 - EXISTING GAS MAIN
 - EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING HYDRO
 - EXISTING STREETLIGHT
 - EXISTING PARKING LOT SIGNAGE

NOTE:
 1. ALL SERVICE CONNECTIONS AND CATCH-BASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11 AND S14.2
 2. BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2

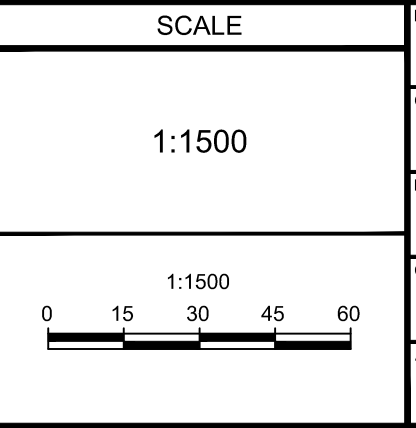
REFER TO 121137-NDGP FOR ADDITIONAL NOTES

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Owner:
 Medusa LP
 c/o Russell Beach
 16766 rte Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

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4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



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DESIGNER: MJH/ARM
 CHECKED: JLS
 DRAWN: MJH/ARM
 CHECKED: JLS
 APPROVED: JLS

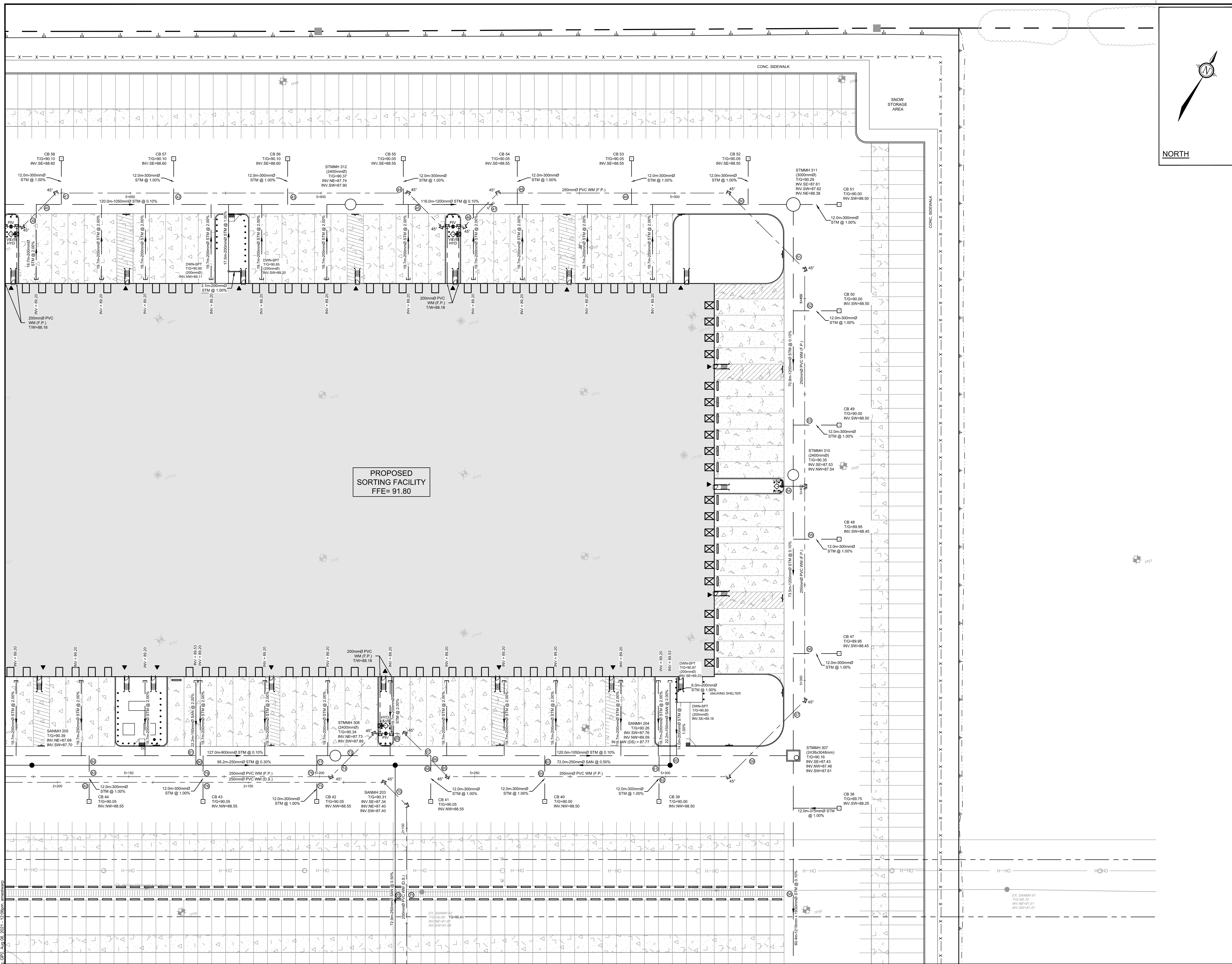
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LOCATION
 SORTATION FACILITY
 99 BILL LEATHER DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

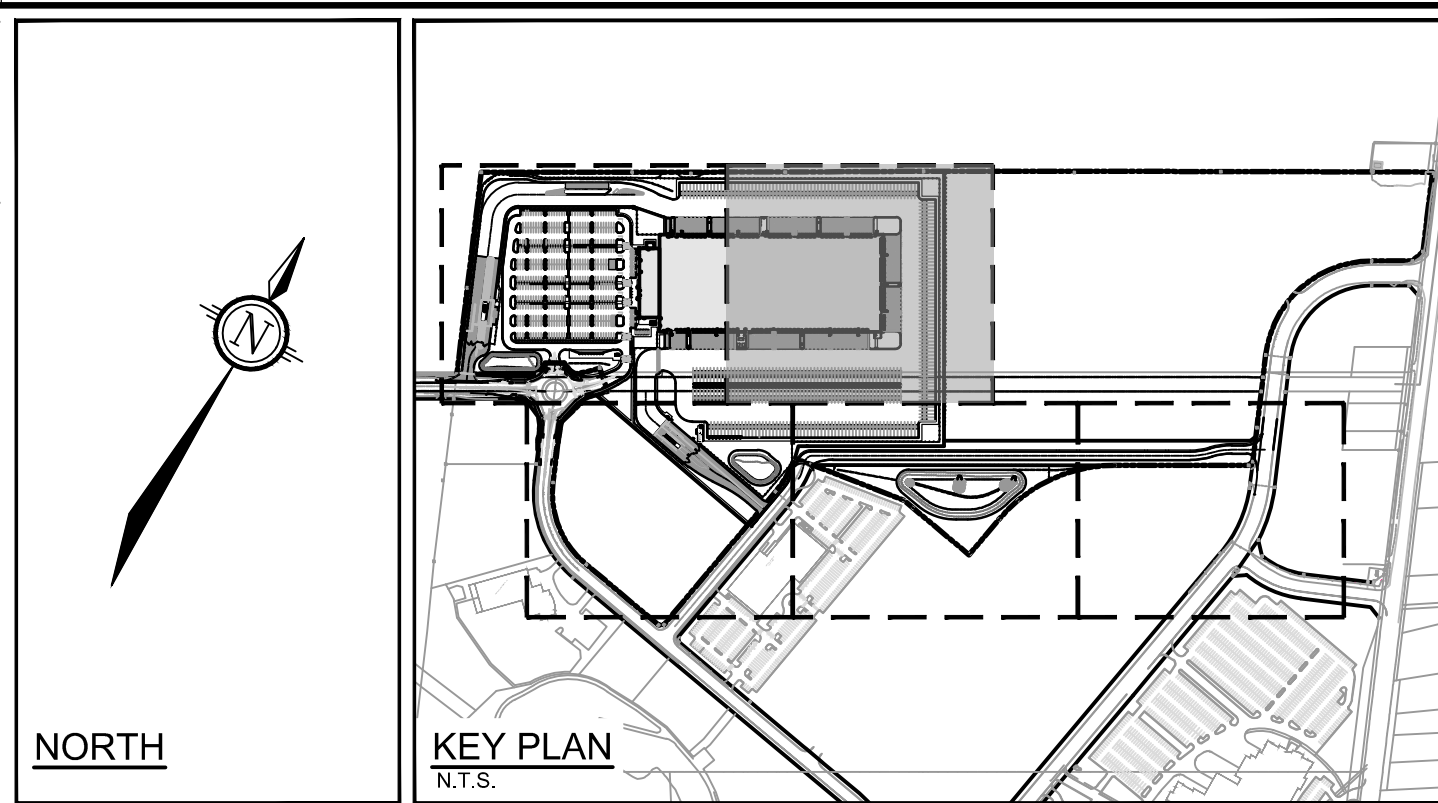
DRAWING NAME
**GENERAL PLAN OF SERVICES
 OVERALL DEVELOPMENT**

PROJECT NO: 121137
 REV: REV #4
 DRAWING NO: 121137-GPO
 PLAN # 18474

20210812121137-GPO.dwg 121137-GPO.dwg GPO, Aug 06, 2021 - 12:05pm, amms@novatech.com



PROPOSED SORTING FACILITY
FFE= 91.80



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC --- PROPOSED DEPRESSED CURB
 - FC --- PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SC7.3
 - PROPOSED CAP
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 - PROPOSED CATCHBASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (OPSD 804.040) c/w GALVANIZED RAILING
 - PROPOSED HEADWALL (OPSD 804.030) c/w GALVANIZED RAILING
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 - PROPOSED WATER SERVICE
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 - PROPOSED HYDRANT c/w LEAD & VALVE
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 - PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
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 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
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 - EXISTING HYDRANT c/w VALVE & LEAD
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 - EXISTING STORM MANHOLE & SEWER
 - EXISTING CATCHBASIN
 - EXISTING GAS MAIN
 - EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING HYDRANT
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 - EXISTING PARKING LOT SIGNAGE

NOTE
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 2. BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2.

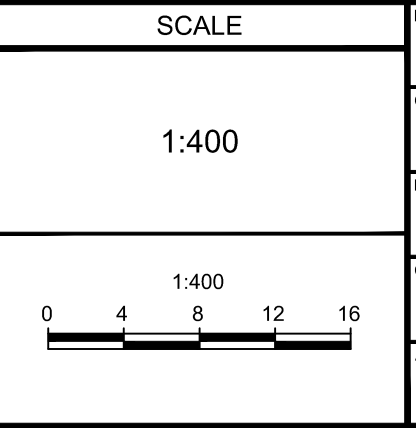
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 H9H 4M7

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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



PERSON
 MUH/ARM
 CHECKED
 JLS
 DRAWN
 MUH/ARM
 CHECKED
 JLS
 APPROVED
 JLS

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 Facsimile (613) 254-5867
 Website www.novatech-eng.com

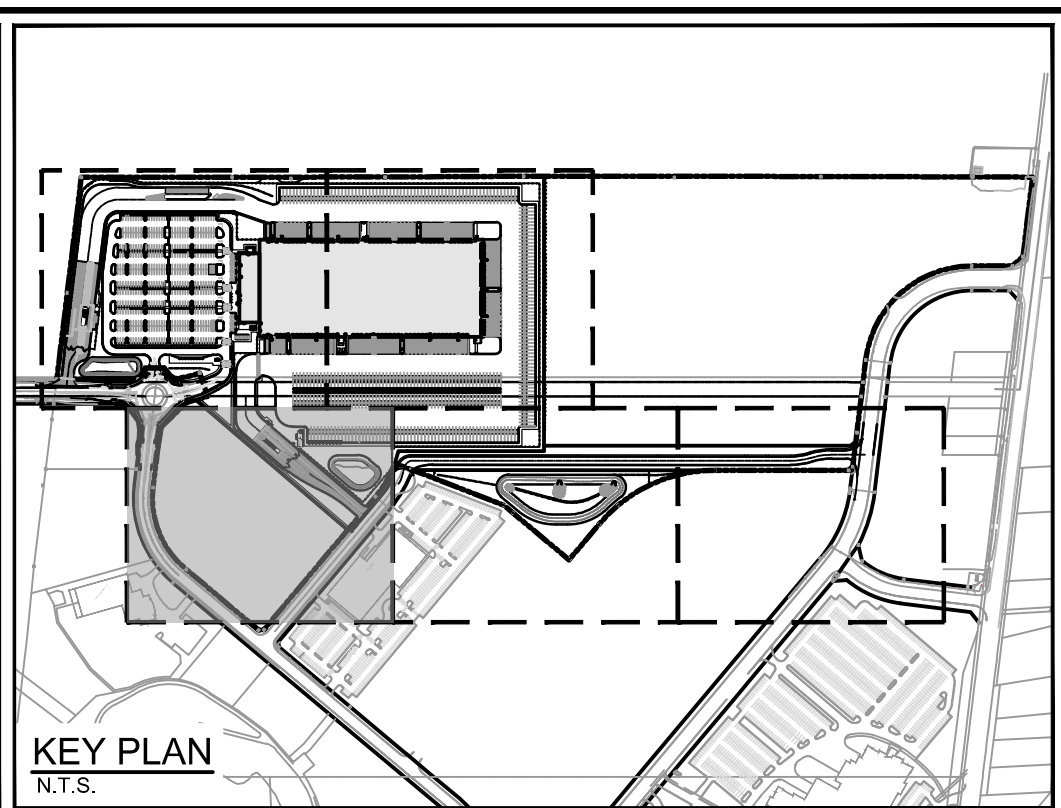
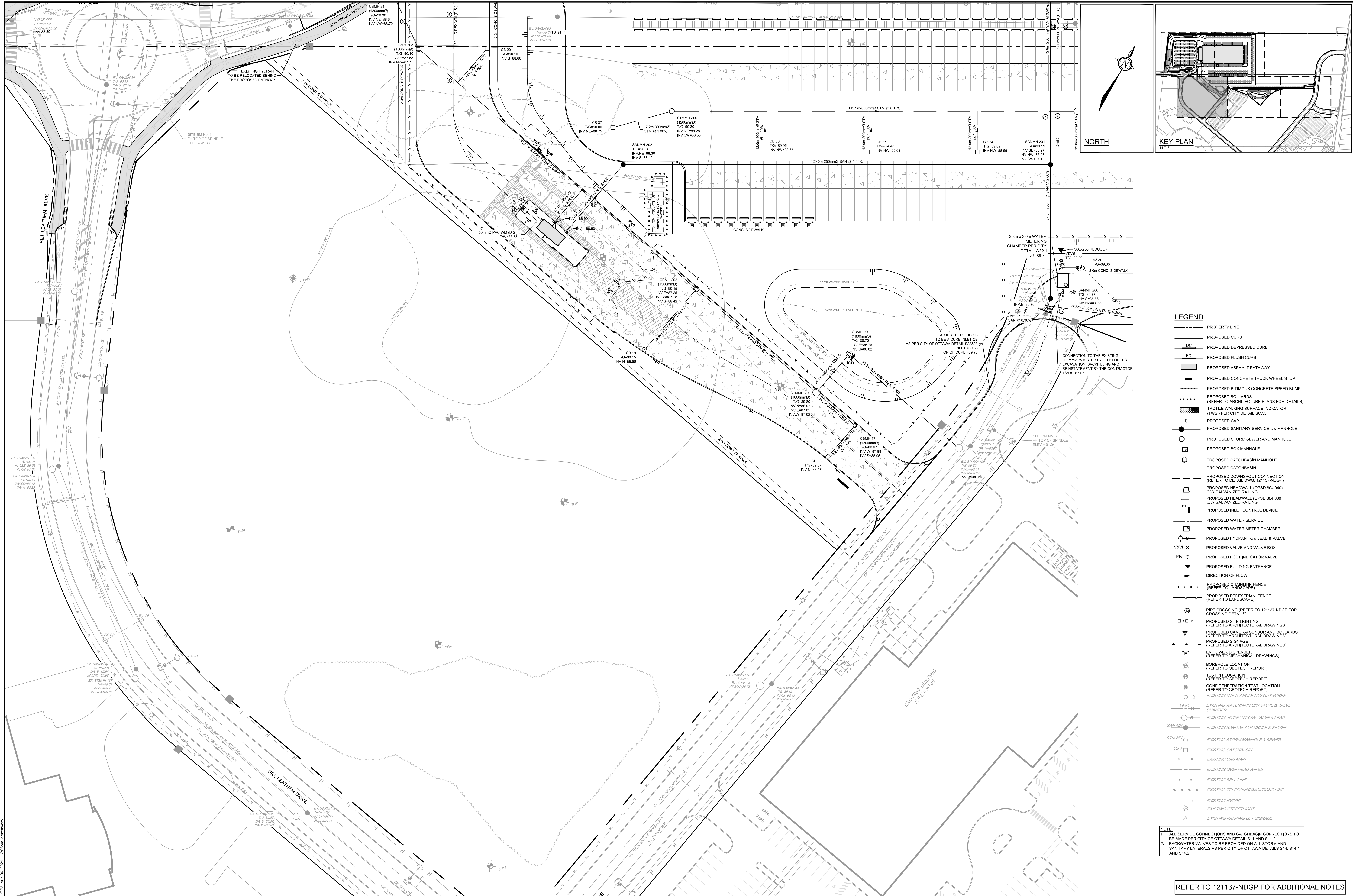
LOCATION
 SORTATION FACILITY
 99 BILL LEATHAM DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA

DRAWING NAME
**GENERAL PLAN OF SERVICES
 NORTH-EAST DEVELOPMENT**

PROJECT No.	121137
REV	REV #4
DRAWING No.	121137-GP2

DATE: 12/21/2019

D07-12-21-0079



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC PROPOSED DEPRESSED CURB
 - FC PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SC7.3
 - PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED BOX MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
 - PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
 - PROPOSED INLET CONTROL DEVICE
 - PROPOSED WATER SERVICE
 - PROPOSED WATER METER CHAMBER
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&VB PROPOSED VALVE AND VALVE BOX
 - PIV PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
 - EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
 - EXISTING UTILITY POLE C/W GUY WIRES
 - EXISTING WATERMAIN C/W VALVE & VALVE CHAMBER
 - EXISTING HYDRANT C/W VALVE & LEAD
 - EXISTING SANITARY MANHOLE & SEWER
 - EXISTING STORM MANHOLE & SEWER
 - EXISTING CATCHBASIN
 - EXISTING GAS MAIN
 - EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING HYDRANT
 - EXISTING STREETLIGHT
 - EXISTING PARKING LOT SIGNAGE

NOTE:
 1. ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11 AND S12.
 2. BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2.

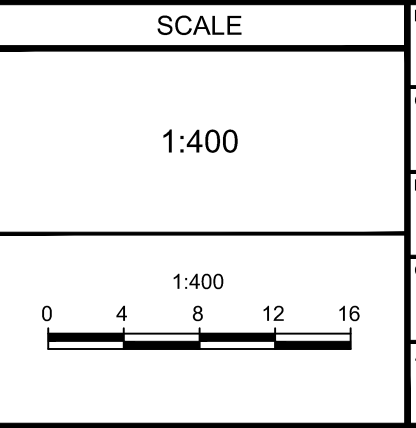
REFER TO 121137-NDGP FOR ADDITIONAL NOTES

NOTE:
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Owner:
 Medusa LP
 c/o Russell Beach
 16766 rue Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



FOR REVIEW ONLY

PERSON: MJH/ARM

CHECKED: JLS

DRAWN: MJH/ARM

CHECKED: JLS

APPROVED: JLS

NOVATECH

Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Cowland Drive
 Ottawa, Ontario, Canada K2M 1P6

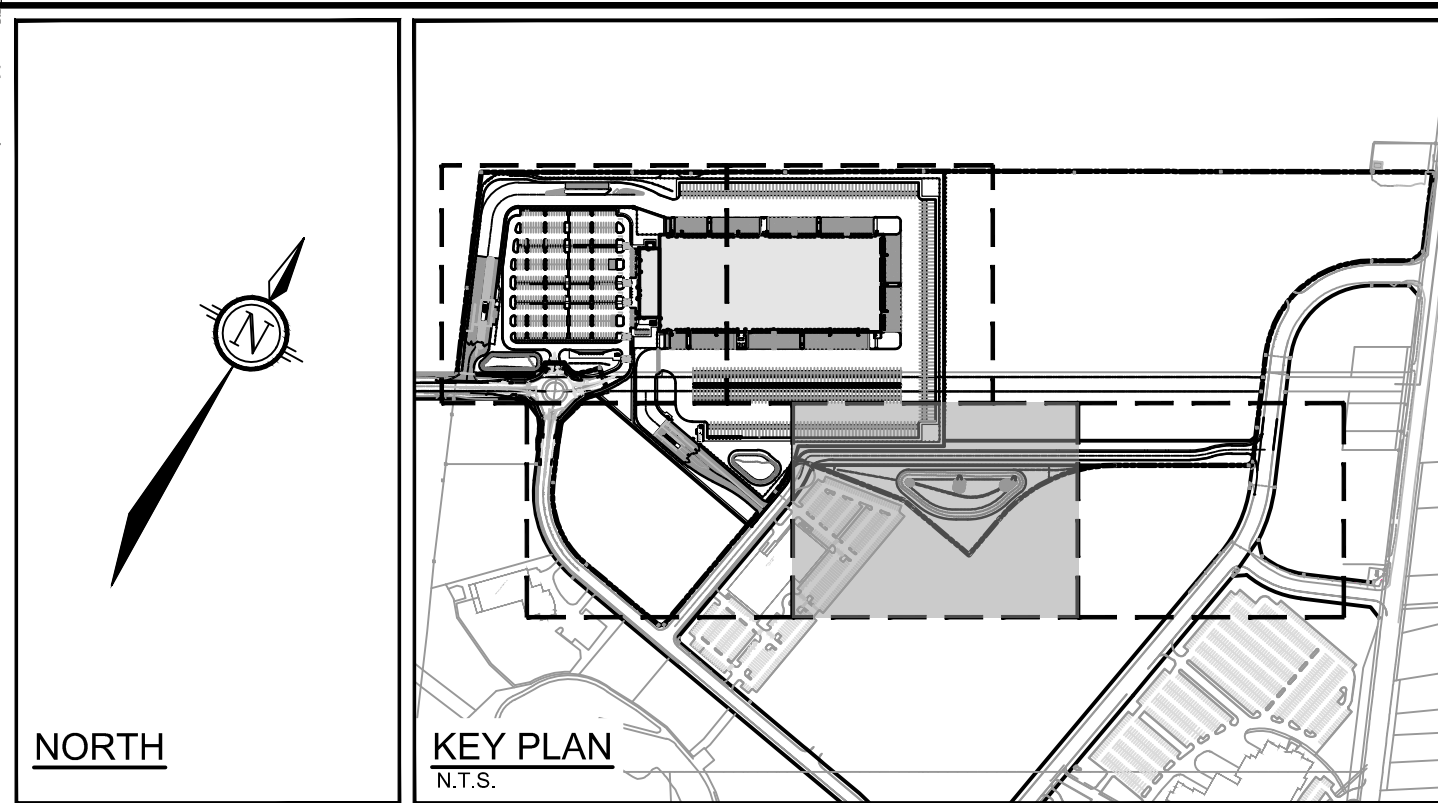
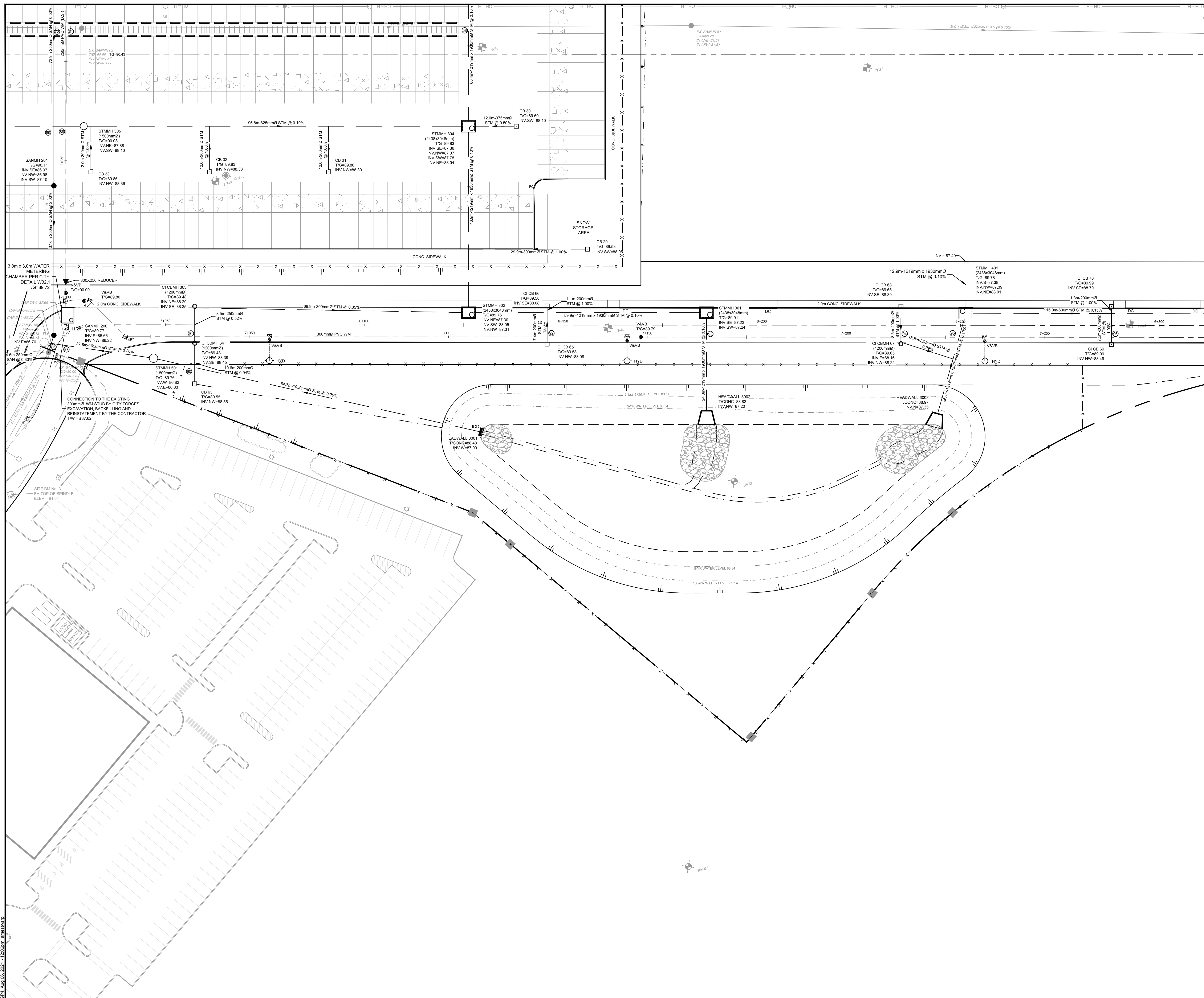
Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION
 SORTATION FACILITY
 99 BILL LEATHAM DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA

DRAWING NAME
 GENERAL PLAN OF SERVICES
 SOUTH-WEST DEVELOPMENT

PROJECT NO.: 121137
 REV: REV #4
 DRAWING NO.: 121137-GP3
 PLAN # 18474

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- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC --- PROPOSED DEPRESSED CURB
 - FC --- PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SC7.3
 - PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED BOX MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (OPSD 804.040) c/w GALVANIZED RAILING
 - PROPOSED HEADWALL (OPSD 804.030) c/w GALVANIZED RAILING
 - ICD --- PROPOSED INLET CONTROL DEVICE
 - PROPOSED WATER SERVICE
 - PROPOSED WATER METER CHAMBER
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&VB --- PROPOSED VALVE AND VALVE BOX
 - P&V --- PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
 - EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
 - EXISTING UTILITY POLE c/w GUY WIRES
 - EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
 - EXISTING HYDRANT c/w VALVE & LEAD
 - EXISTING SANITARY MANHOLE & SEWER
 - EXISTING STORM MANHOLE & SEWER
 - EXISTING CATCHBASIN
 - EXISTING GAS MAIN
 - EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING HYDRO
 - EXISTING STREETLIGHT
 - EXISTING PARKING LOT SIGNAGE

NOTE:
 1. ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11 AND S11.2
 2. BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2

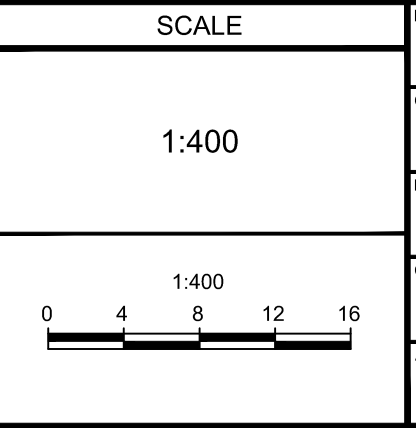
REFER TO 121137-NDGPP FOR ADDITIONAL NOTES

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Owner:
 Medusa LP
 c/o Russell Beach
 16766 rd Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



FOR REVIEW ONLY

DESIGNER: MJH/ARM
 CHECKED: JLS
 DRAWN: MJH/ARM
 CHECKED: JLS
 APPROVED: JLS

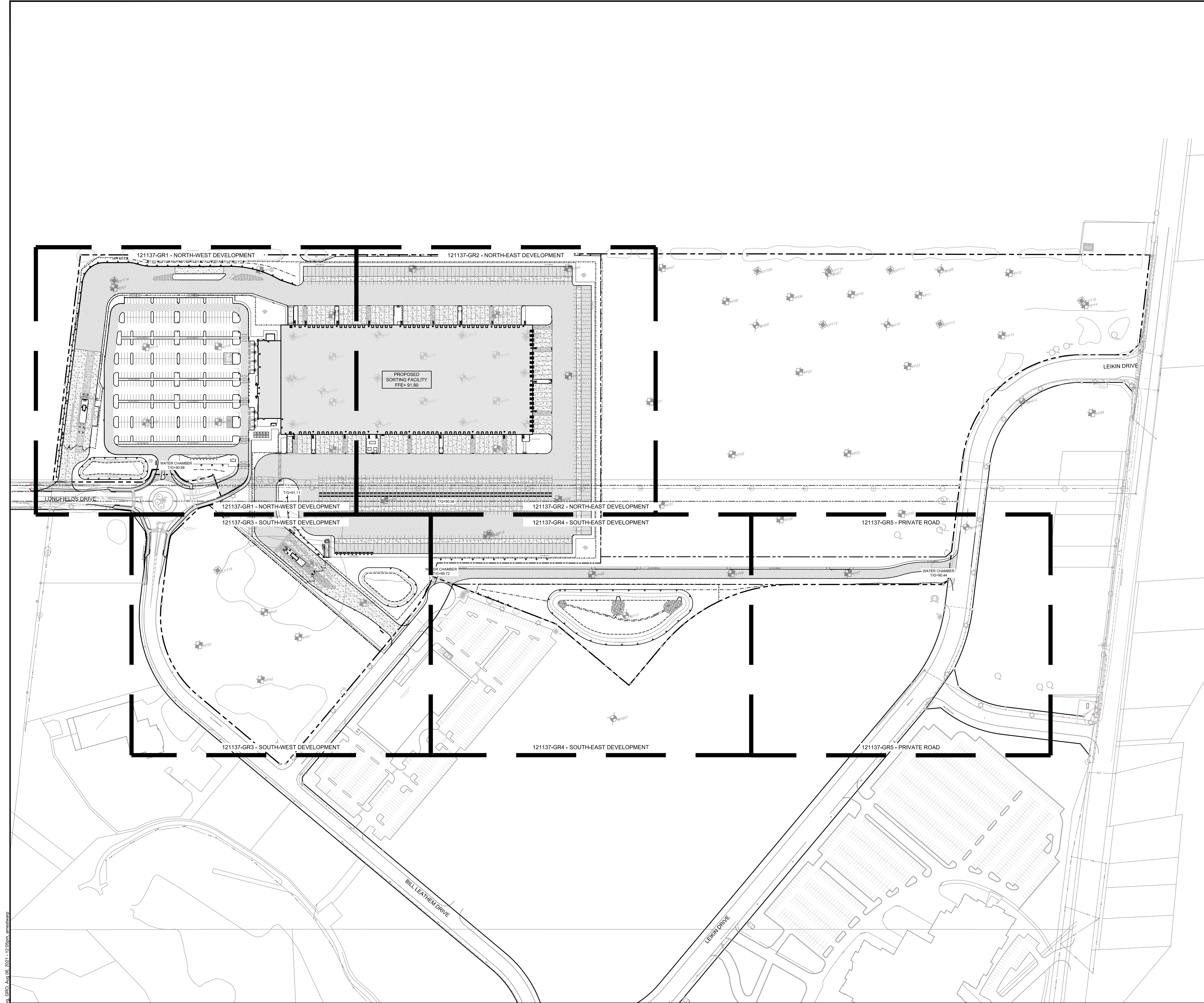
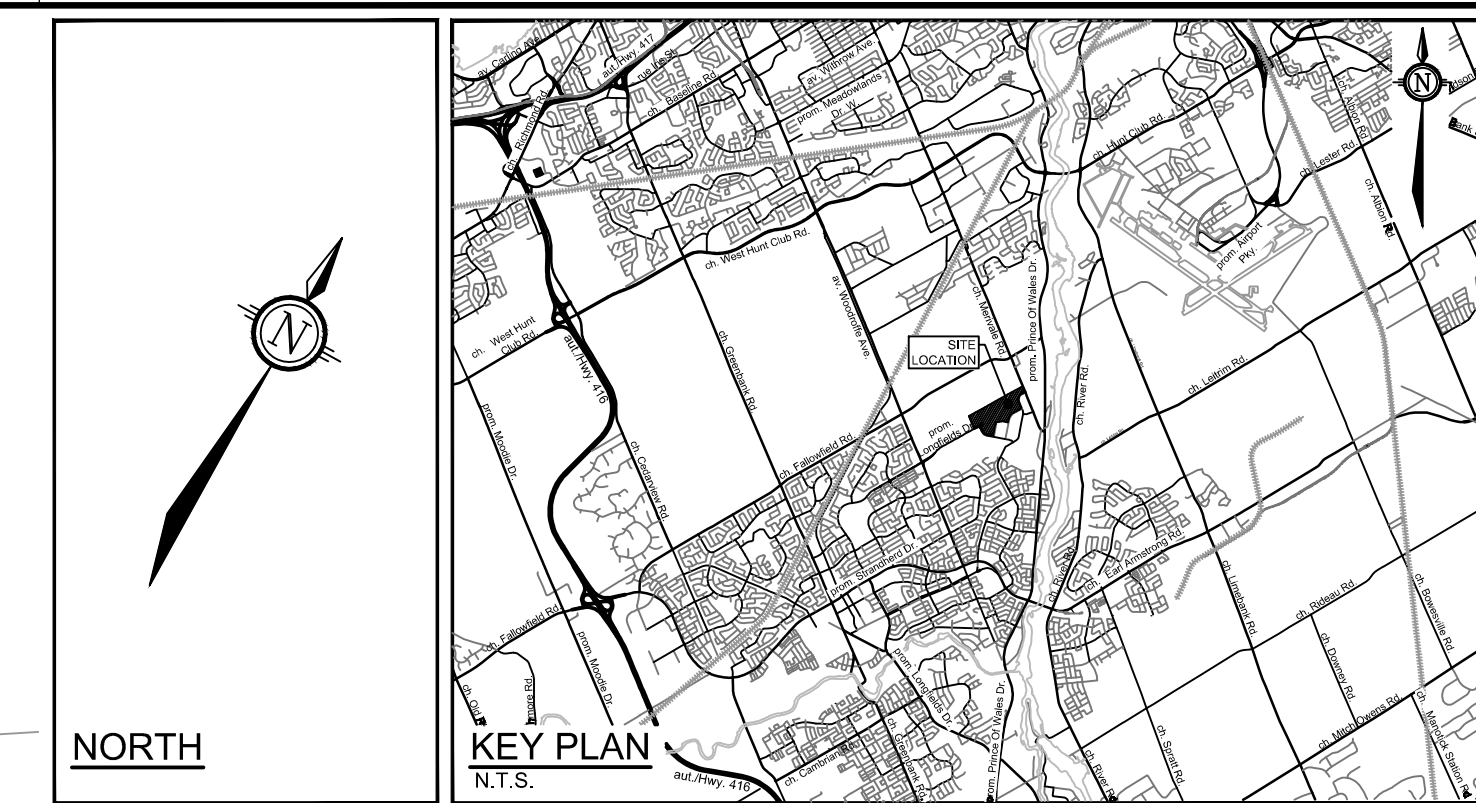
NOVATECH
 Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Cowpland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION
 SORTATION FACILITY
 99 BILL LEATHEN DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
 GENERAL PLAN OF SERVICES
 SOUTH-EAST DEVELOPMENT

PROJECT No. 121137
 REV #4
 DRAWING No. 121137-GP4
 PLAN # 18474

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LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
	PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
	PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	PROPOSED HIGH POINT
	PROPOSED DEPRESSED CURB
	PROPOSED FLUSH CURB
	PROPOSED ASPHALT PATHWAY
	PROPOSED CONCRETE TRUCK WHEEL STOP
	PROPOSED BITUMINOUS CONCRETE SPEED BUMP
	PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
	TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
	SWALE C/W SUBDRAIN AND DIRECTION OF FLOW
	TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	BOTTOM OF SLOPE
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
	TEST PIT LOCATION (REFER TO GEOTECH REPORT)
	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE C/W GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

REFER TO 121137-NDGR FOR ADDITIONAL NOTES

NOTE:
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

Owner:
 Medusa LP
 c/o Russell Beach
 16766 rd Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH

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FOR REVIEW ONLY

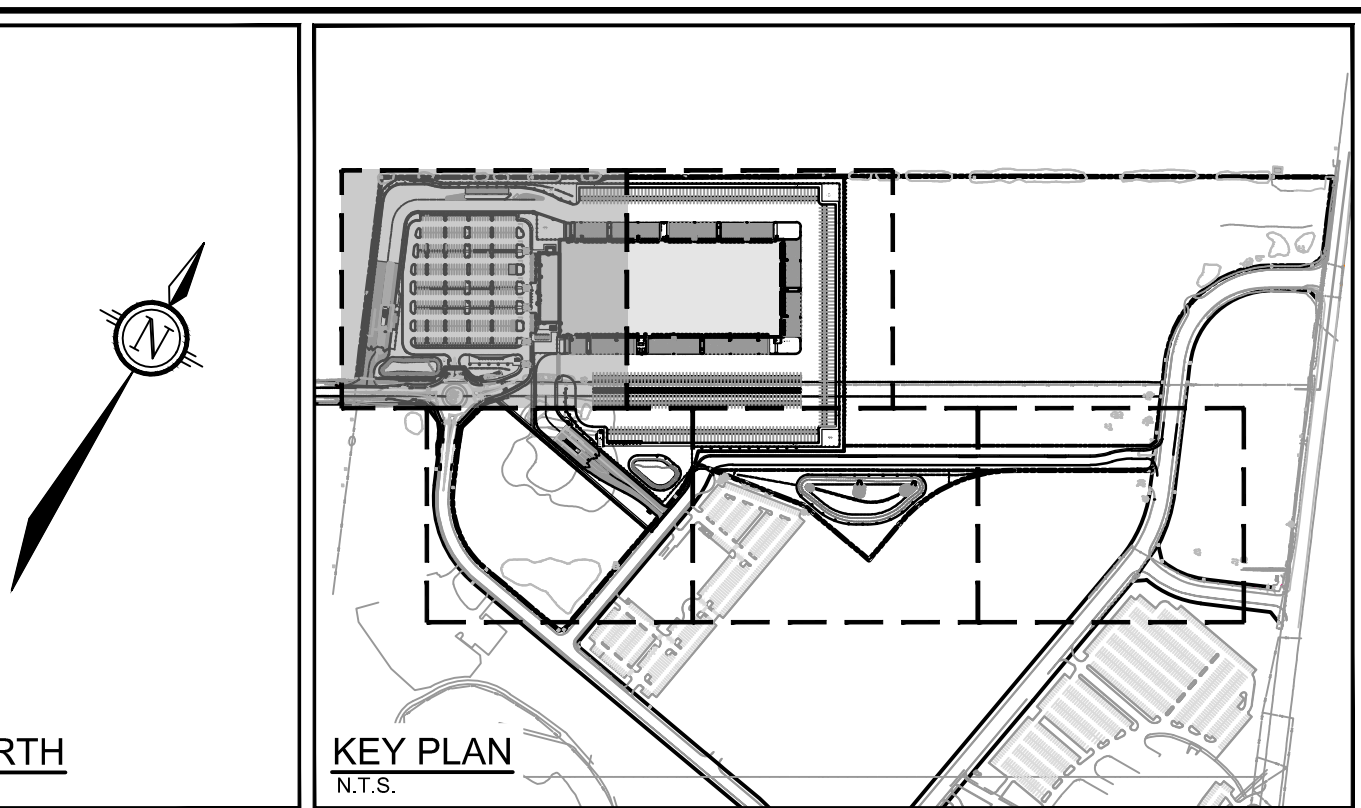
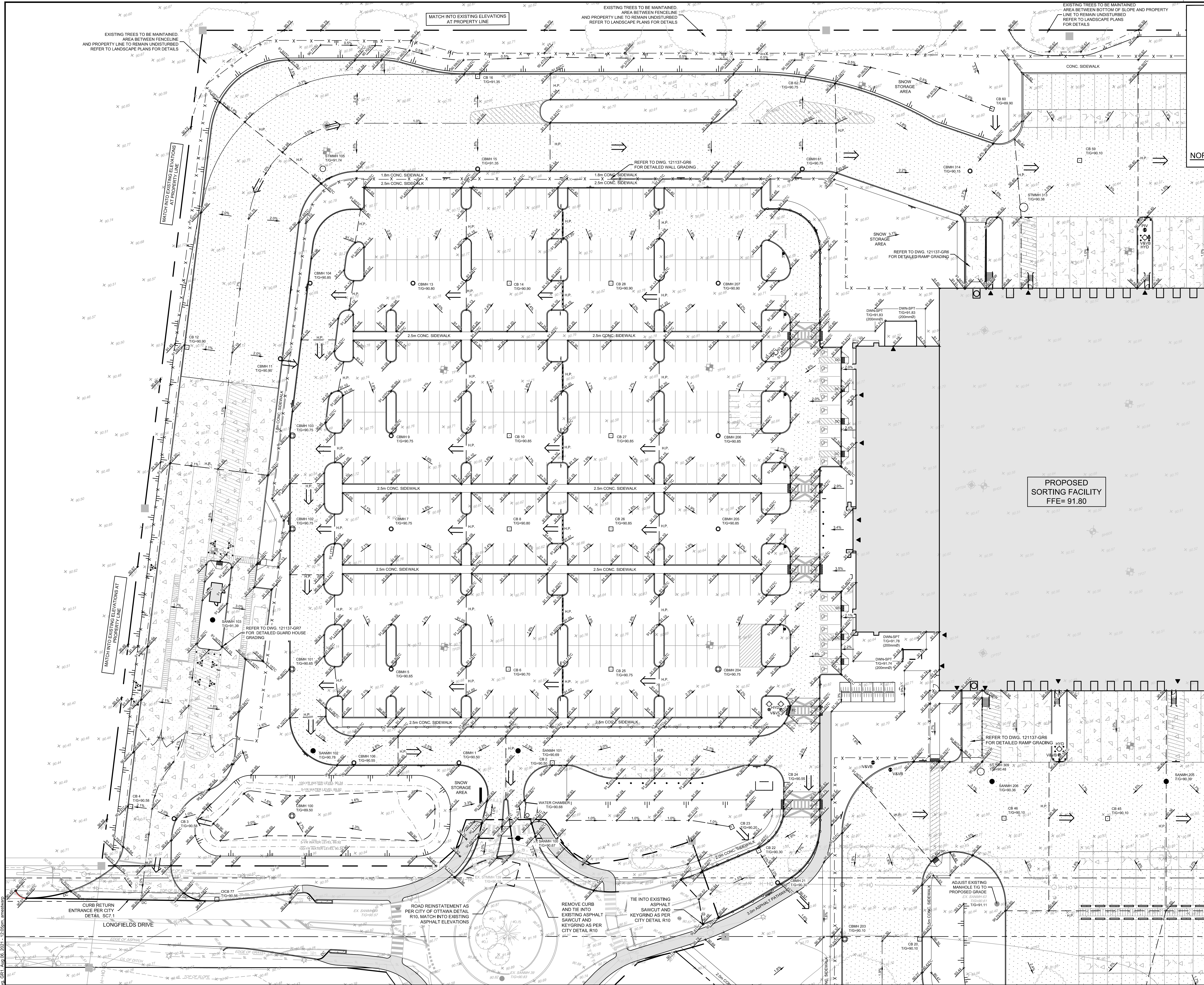
DESIGN: MJH/ARM
 CHECKED: JLS
 DRAWN: MJH/ARM
 CHECKED: JLS
 APPROVED: JLS

NOVATECH
 Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Cowpland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION SORTATION FACILITY 99 BILL LEATHER DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA	PROJECT NO. 121137
DRAWING NAME GRADING PLAN OVERALL DEVELOPMENT	REV #4
	DRAWING NO. 121137-GRO

2021/12/12 12:13:24 CAD dwg: 121137 - GRO.dwg GRD Aug 06, 2021 - 12:09pm mmedusa

D07-12-21-0079
 PLAN # 18474



- LEGEND**
- PROPERTY LINE
 - PROPOSED ELEVATION
 - EXISTING ELEVATION
 - PROPOSED SWALE ELEVATION
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF MAJOR OVERLAND FLOW
 - PROPOSED SAN MANHOLE
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCH-BASIN MANHOLE
 - PROPOSED BOX MANHOLE
 - PROPOSED CATCH-BASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
 - PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER METER CHAMBER
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED POST INDICATOR VALVE
 - PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - H.P.
 - PROPOSED HIGH POINT
 - DC
 - PROPOSED DEPRESSED CURB
 - FC
 - PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
 - BOTTOM OF SLOPE
 - SLOPE AND DIRECTION
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
 - EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
 - EXISTING UTILITY POLE C/W WIRES
 - EXISTING VALVE & VALVE CHAMBER
 - EXISTING VALVE & VALVE BOX
 - EXISTING HYDRANT
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - EXISTING LIGHT STANDARD
 - EXISTING FENCE

PROPOSED SORTING FACILITY
FFE= 91.80

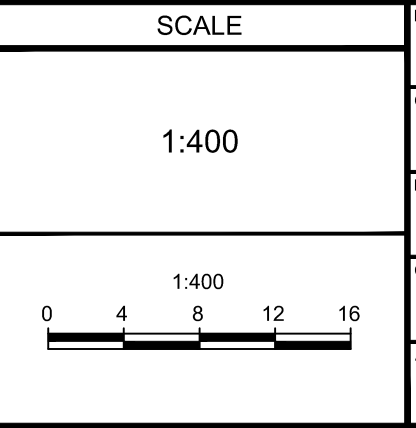
REFER TO 121137-NDGR FOR ADDITIONAL NOTES

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Owner:
Medusa LP
c/o Russell Beach
16766 rue Trans-Canada, Suite 500
Kirkland, Quebec
H9H 4M7

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



FOR REVIEW ONLY

MJH/ARM
CHECKED
JLS
DRAWN
MJH/ARM
CHECKED
JLS
APPROVED
JLS

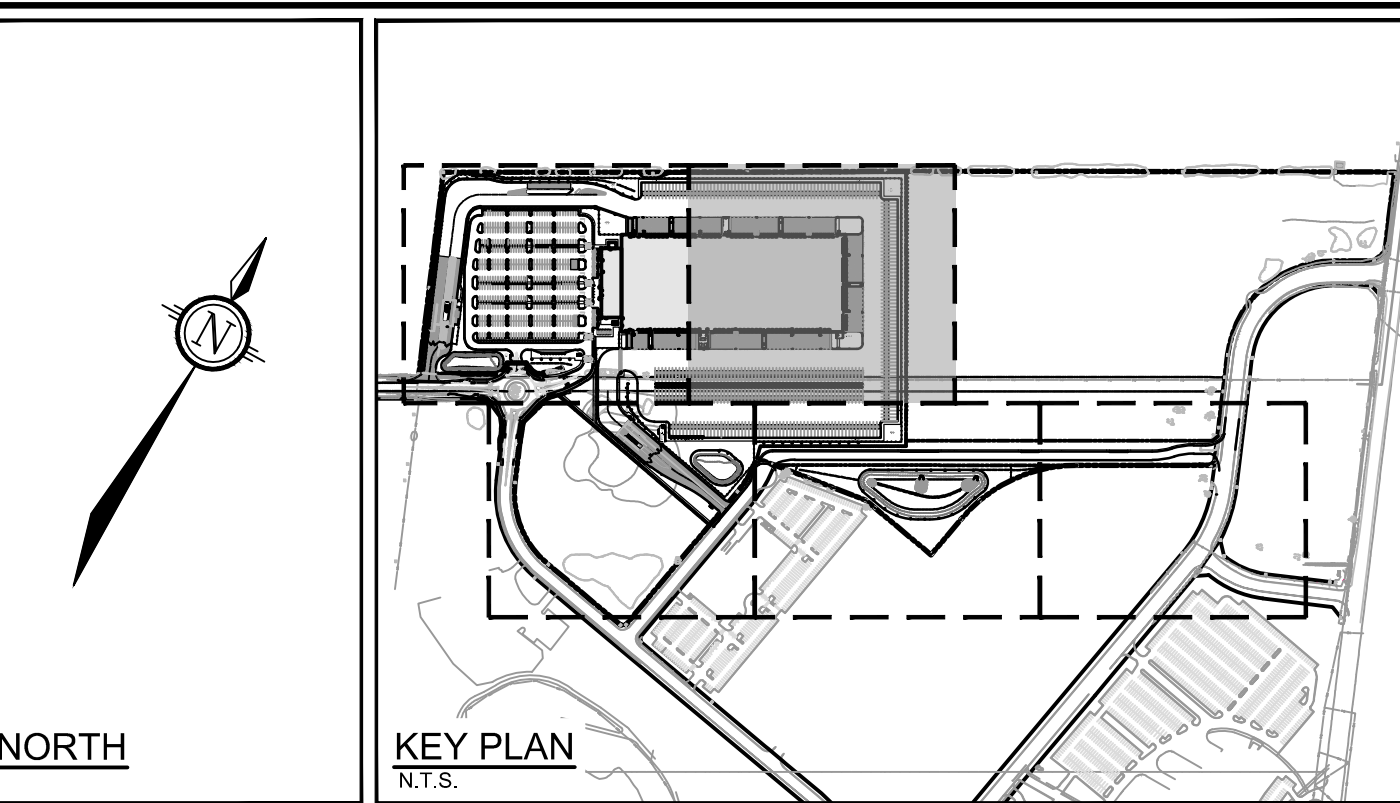
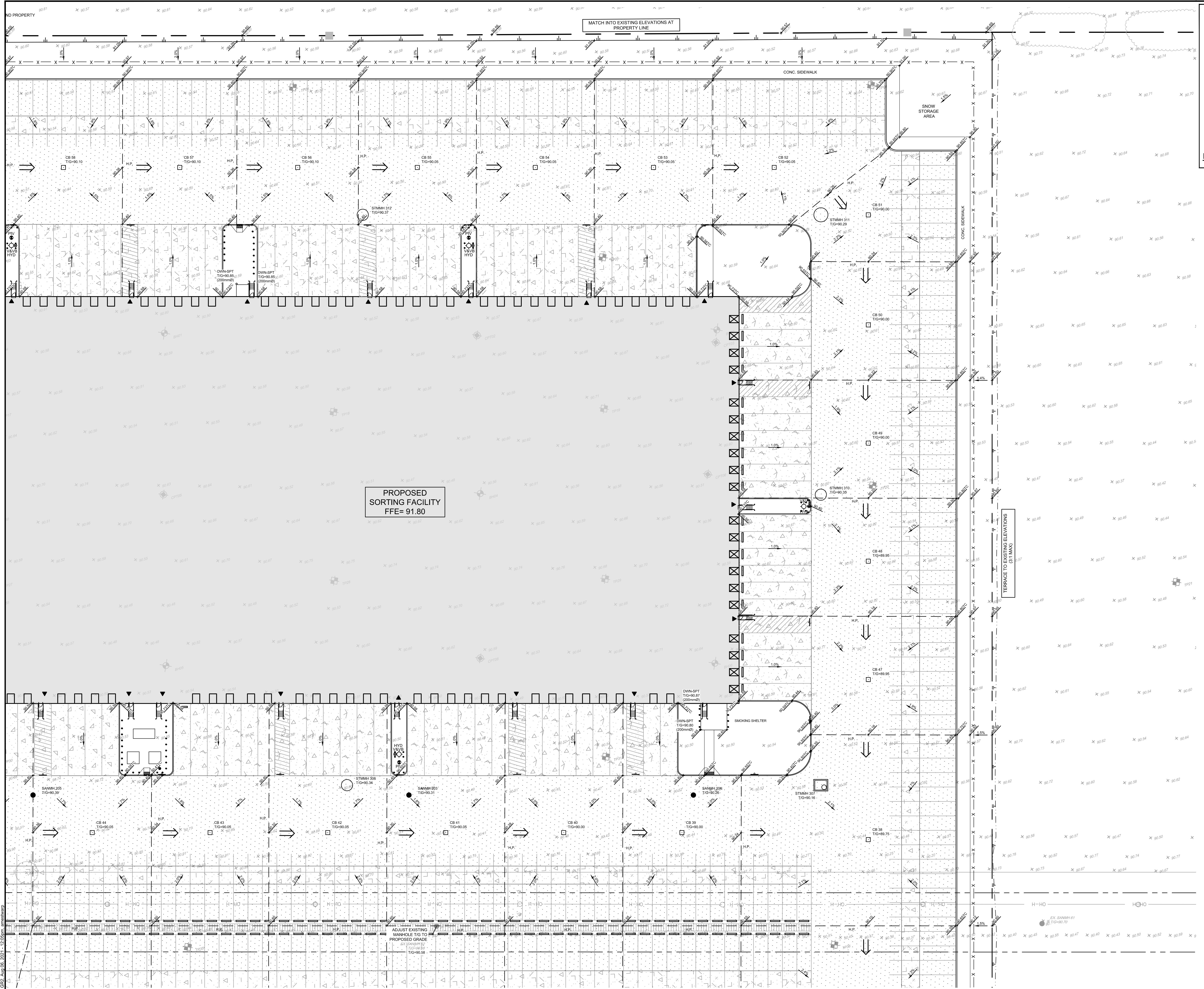
NOVATECH
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Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION
SORTATION FACILITY
99 BILL LEATHEN DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
GRADING PLAN
NORTH-WEST DEVELOPMENT

PROJECT NO.	121137
REV	REV #4
DRAWING NO.	121137-GR1

PLAN # 18474



LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
	PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
	PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	PROPOSED HIGH POINT
	PROPOSED DEPRESSED CURB
	PROPOSED FLUSH CURB
	PROPOSED ASPHALT PATHWAY
	PROPOSED CONCRETE TRUCK WHEEL STOP
	PROPOSED BITUMINOUS CONCRETE SPEED BUMP
	PROPOSED BOLLARDS (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
	TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
	SWALE C/W SUBDRAIN AND DIRECTION OF FLOW
	TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
	TEST PIT LOCATION (REFER TO GEOTECH REPORT)
	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE C/W GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

PROPOSED SORTING FACILITY
FFE= 91.80

MATCH INTO EXISTING ELEVATIONS AT PROPERTY LINE

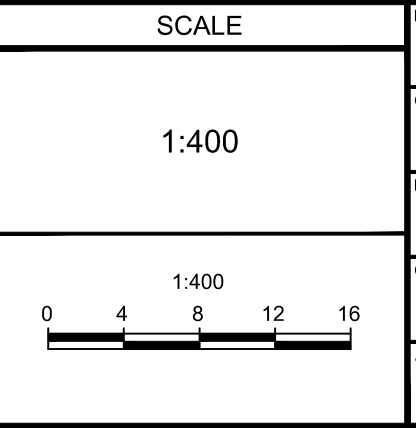
TERRACE TO EXISTING ELEVATIONS (2:1 MAX)

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H9H 4M7

NOT FOR CONSTRUCTION

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4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



FOR REVIEW ONLY

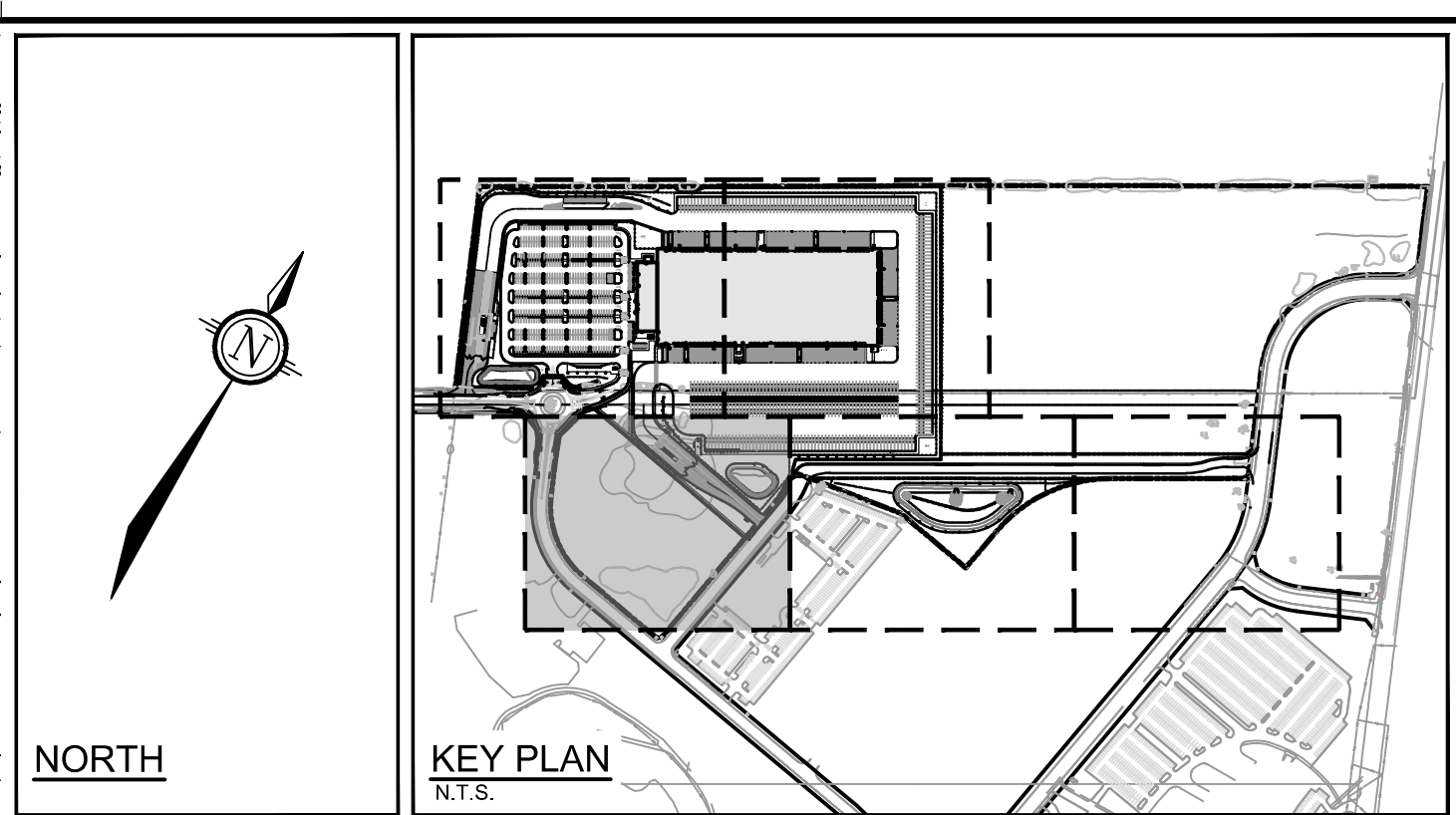
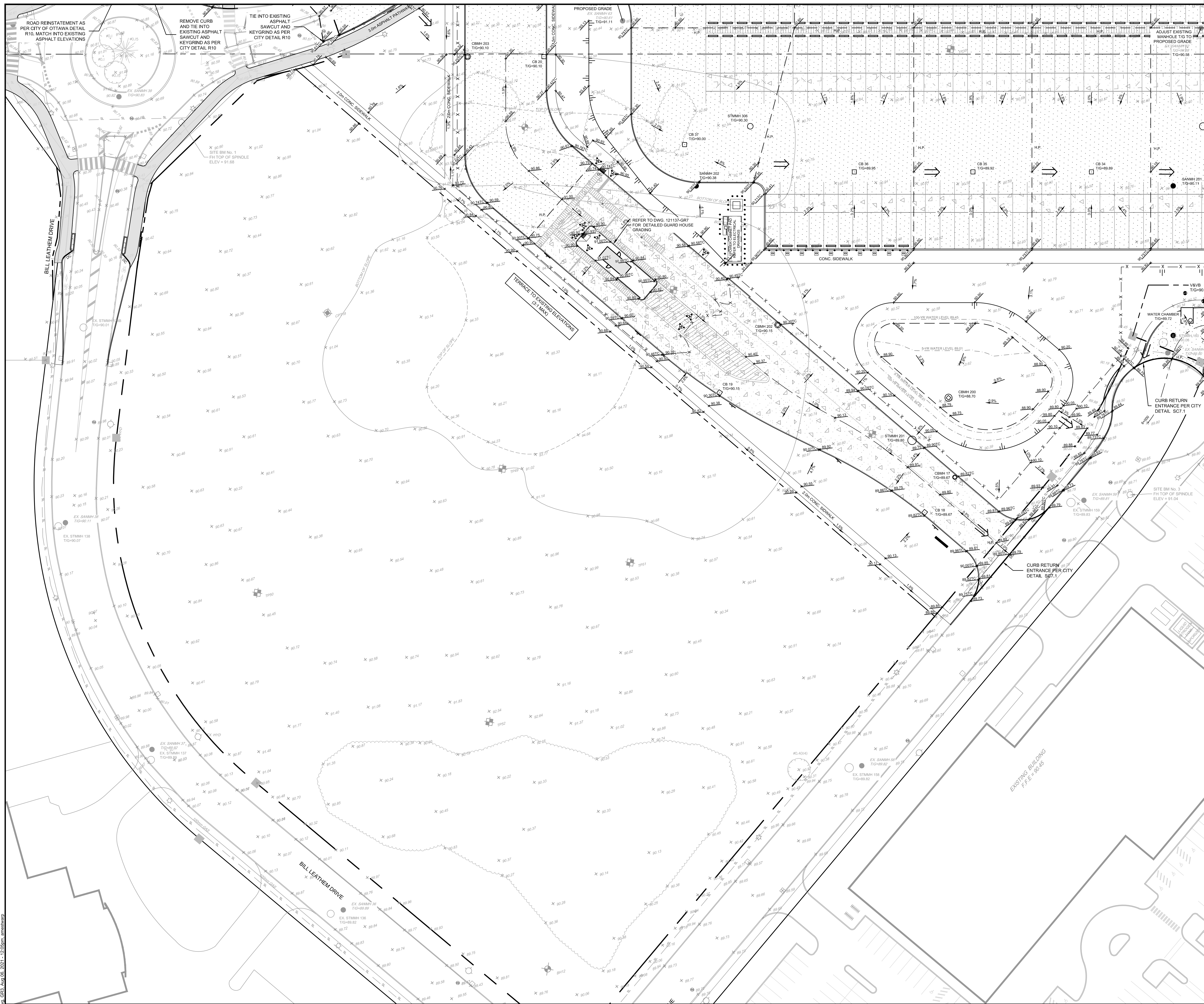
DESIGNER: MJH/ARM
CHECKED: JLS
DRAWN: MJH/ARM
CHECKED: JLS
APPROVED: JLS

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowland Drive
Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION
SORTATION FACILITY
99 BILL LEATHAM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
GRADING PLAN NORTH-EAST DEVELOPMENT

PROJECT NO.: 121137
REV: REV #4
DRAWING NO.: 121137-GR2
PLAN # 18474



LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
	PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
	PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	H.P.
	DC
	FC
	PROPOSED ASPHALT PATHWAY
	PROPOSED CONCRETE TRUCK WHEEL STOP
	PROPOSED BITUMINOUS CONCRETE SPEED BUMP
	PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
	TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
	SWALE C/W SUBDRAIN AND DIRECTION OF FLOW
	TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	2.0% SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
	TEST PIT LOCATION (REFER TO GEOTECH REPORT)
	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE C/W GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

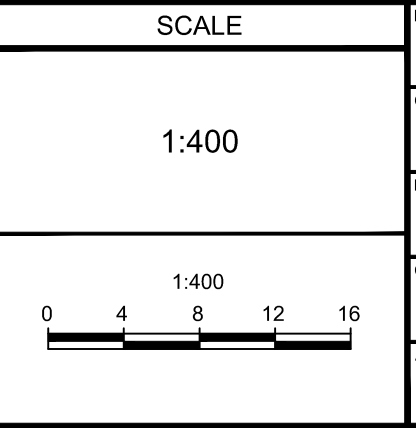
REFER TO 121137-NDGR FOR ADDITIONAL NOTES

NOTE:
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Owner:
 Medusa LP
 c/o Russell Beach
 16766 rd Trans-Canada, Suite 500
 Kirkland, Quebec
 H9H 4M7

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



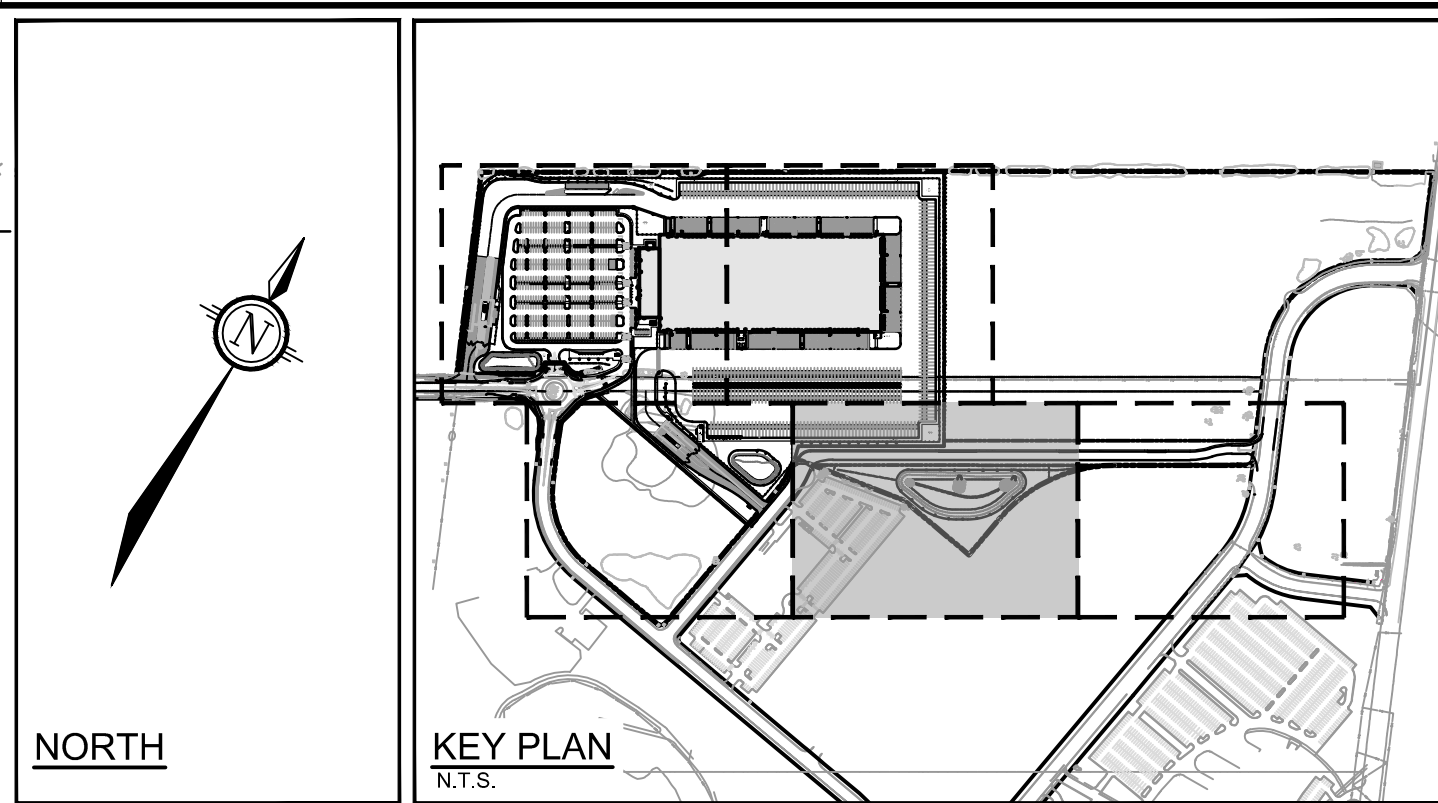
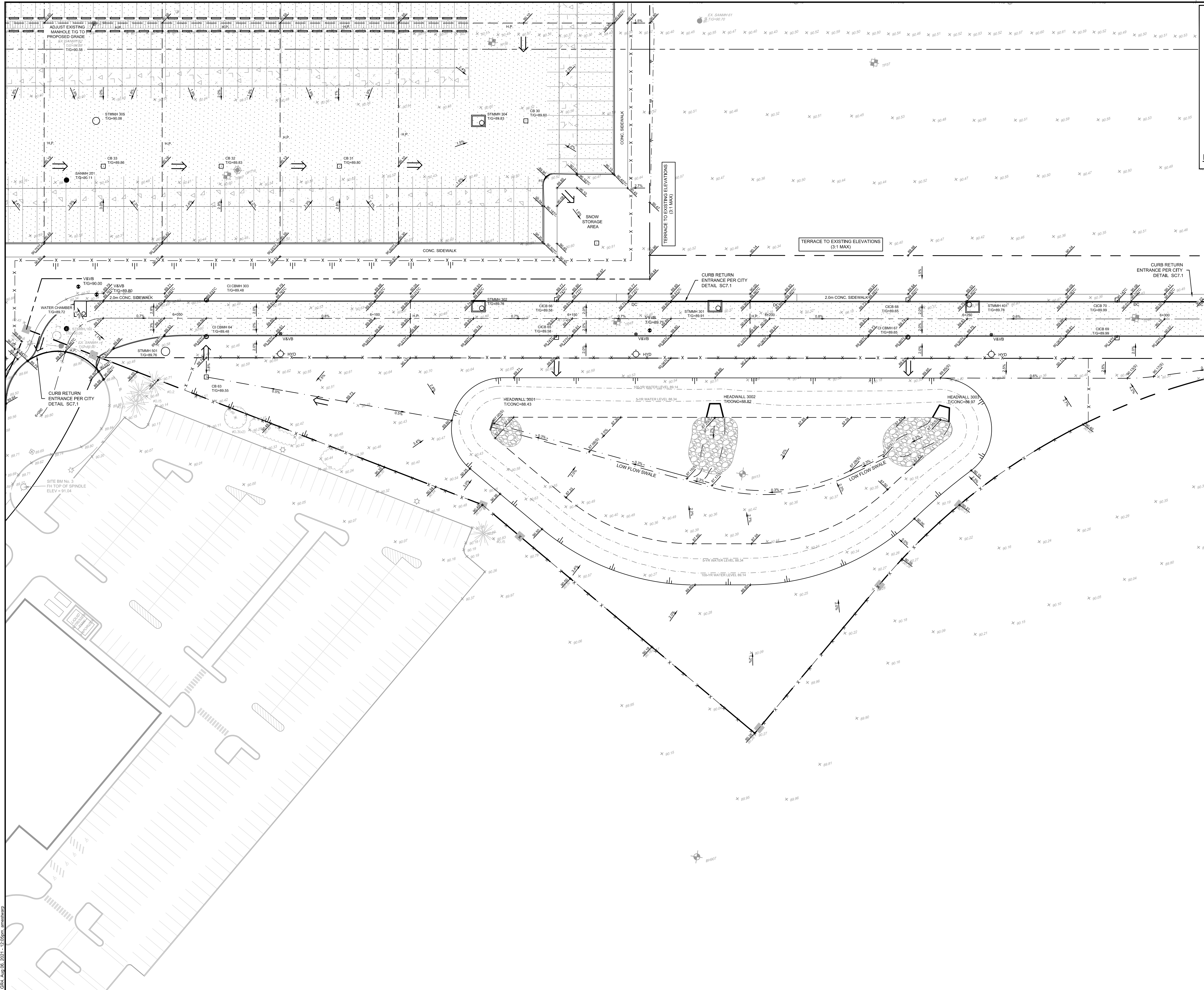
SCALE	FOR REVIEW ONLY
1:400	MJH/ARM
	JLS
	MJH/ARM
	JLS
	JLS

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LOCATION SORTATION FACILITY 99 BILL LEATHAM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA	
DRAWING NAME GRADING PLAN SOUTH-WEST DEVELOPMENT	PROJECT NO. 121137
	REV #4
	DRAWING NO. 121137-GR3

121137-GR3.dwg, Aug 06, 2021, 12:29pm, amastm

D07-12-21-0079



- LEGEND**
- PROPERTY LINE
 - PROPOSED ELEVATION
 - EXISTING ELEVATION
 - PROPOSED SWALE ELEVATION
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF MAJOR OVERLAND FLOW
 - PROPOSED SAN MANHOLE
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED BOX MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
 - PROPOSED HEADWALL (OPSD 804.040)
 - PROPOSED HEADWALL (OPSD 804.030)
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER METER CHAMBER
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED POST INDICATOR VALVE
 - PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - H.P. PROPOSED HIGH POINT
 - DC PROPOSED DEPRESSED CURB
 - FC PROPOSED FLUSH CURB
 - PROPOSED ASPHALT PATHWAY
 - PROPOSED CONCRETE TRUCK WHEEL STOP
 - PROPOSED BITUMINOUS CONCRETE SPEED BUMP
 - PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
 - TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SCT.3
 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
 - BOTTOM OF SLOPE
 - SLOPE AND DIRECTION
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED CAMERA/ SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
 - PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
 - EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
 - BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
 - TEST PIT LOCATION (REFER TO GEOTECH REPORT)
 - CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
 - EXISTING UTILITY POLE c/w GUY WIRES
 - EXISTING VALVE & VALVE CHAMBER
 - EXISTING VALVE & VALVE BOX
 - EXISTING HYDRANT
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 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - EXISTING LIGHT STANDARD
 - EXISTING FENCE

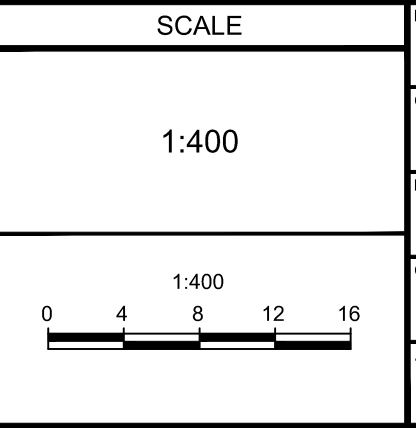
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 H9H 4M7

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 CONSTRUCTION

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4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
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2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



DESIGN
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 JLS
 DRAWN
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 CHECKED
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 APPROVED
 JLS

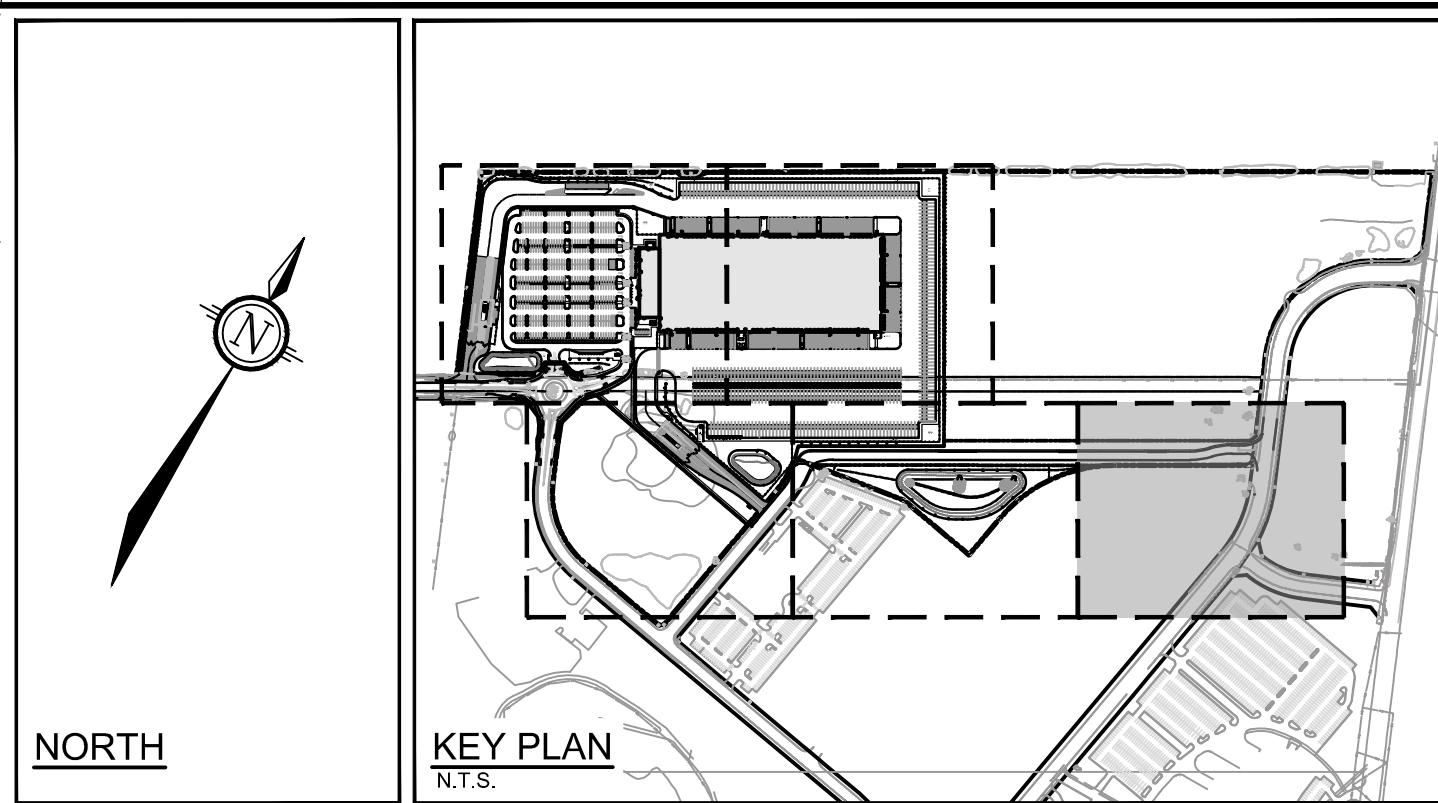
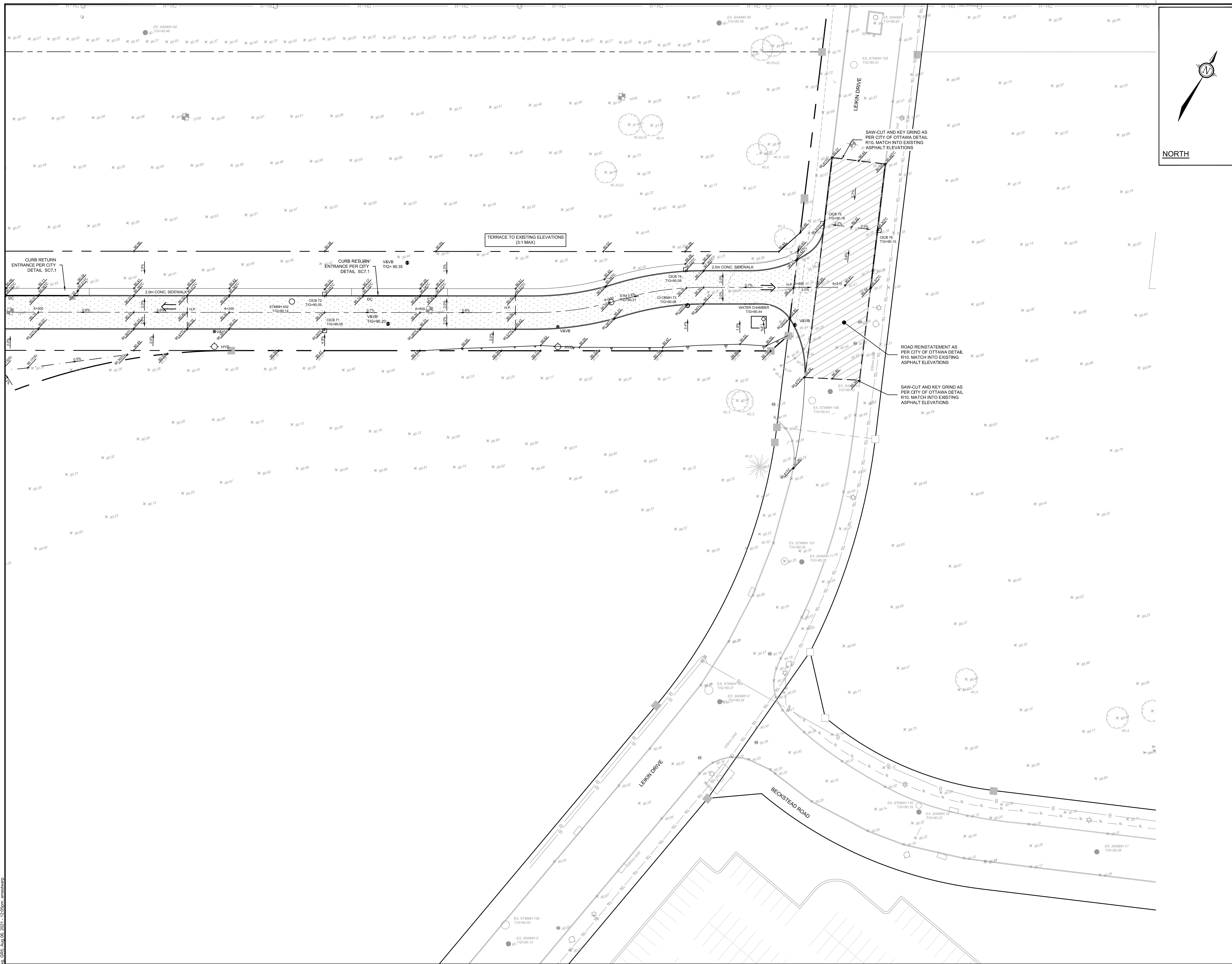
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LOCATION SORTATION FACILITY 99 BILL LEATHAM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA		PROJECT No. 121137
DRAWING NAME GRADING PLAN SOUTH-EAST DEVELOPMENT		REV #4
		DRAWING No. 121137-GR4

121137-NDGR.dwg, Aug 6, 2021, 1:29pm, amstewart

D07-12-21-0079



LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
	PROPOSED HEADWALL (OPSD 804.040) C/W GALVANIZED RAILING
	PROPOSED HEADWALL (OPSD 804.030) C/W GALVANIZED RAILING
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	PROPOSED HIGH POINT
	PROPOSED CURB
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	PROPOSED FLUSH CURB
	PROPOSED ASPHALT PATHWAY
	PROPOSED CONCRETE TRUCK WHEEL STOP
	PROPOSED BITUMINOUS CONCRETE SPEED BUMP
	PROPOSED BOLLARDS (REFER TO ARCHITECTURE PLANS FOR DETAILS)
	TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SCT.3
	SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
	TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	BOTTOM OF SLOPE
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
	TEST PIT LOCATION (REFER TO GEOTECH REPORT)
	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE C/W WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
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	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

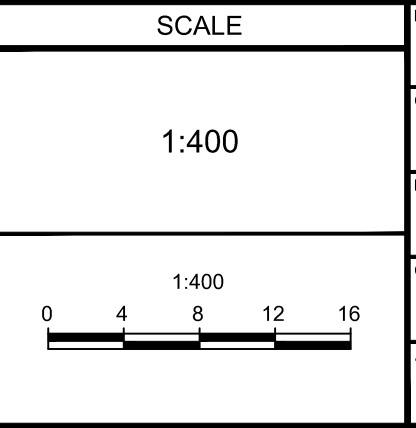
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 Kirkland, Quebec
 H9H 4M7

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4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



DESIGN
 MJH/ARM
 CHECKED
 JLS
 DRAWN
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 CHECKED
 JLS
 APPROVED
 JLS

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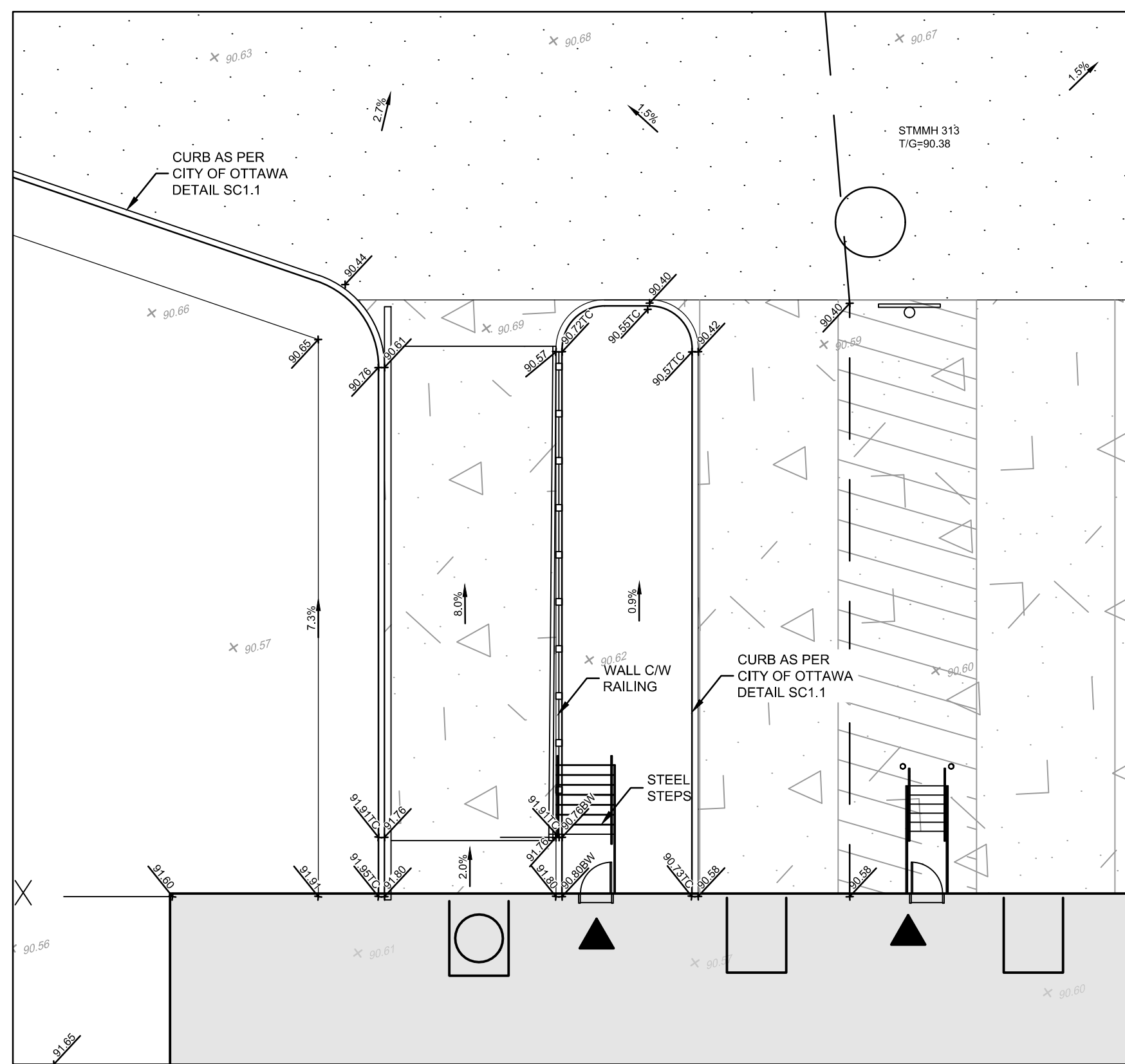
LOCATION
 SORTATION FACILITY
 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
 GRADING PLAN
 PRIVATE ROAD

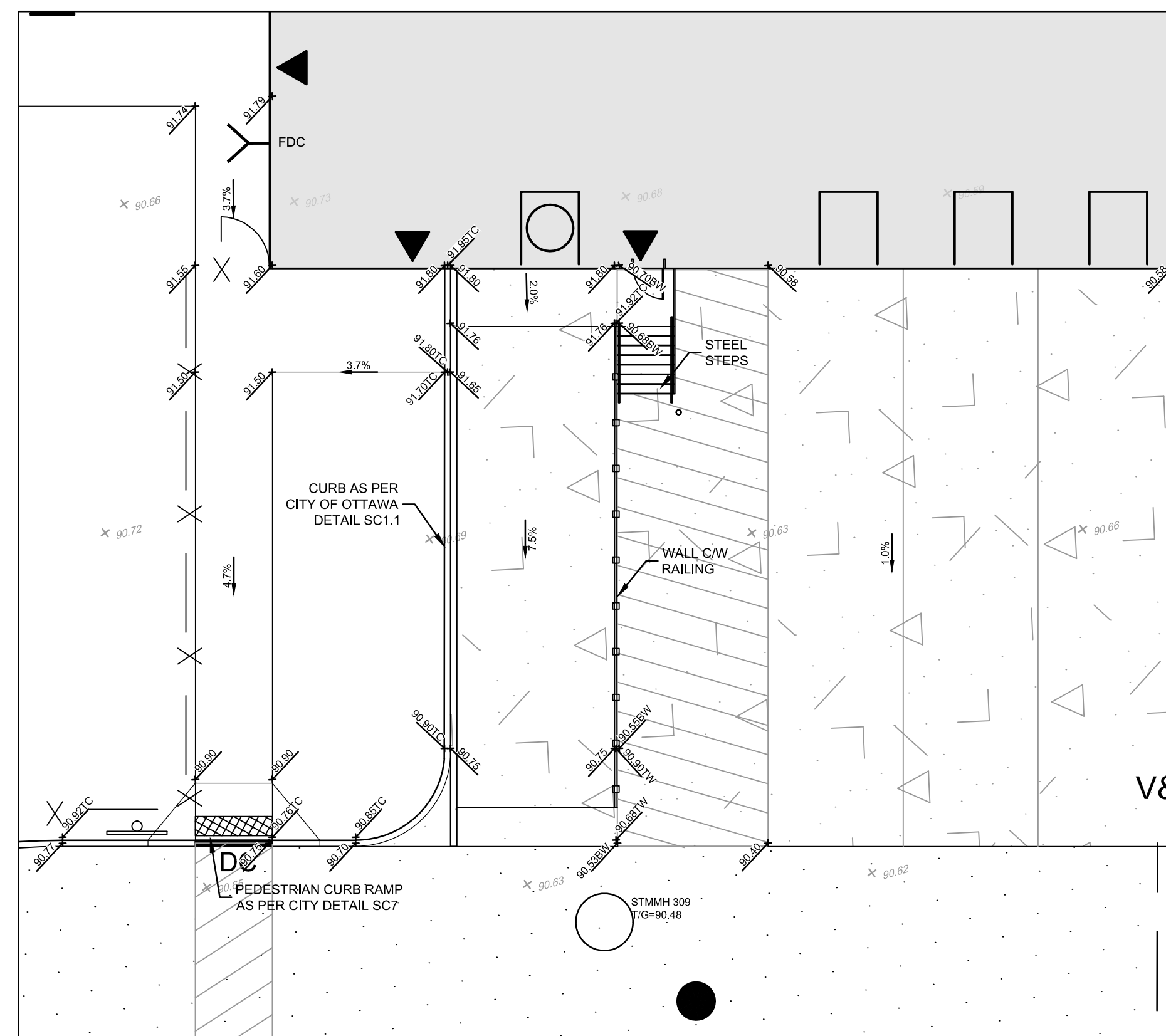
PROJECT No.	121137
REV	REV #4
DRAWING No.	121137-GR5

PLAN # 18474

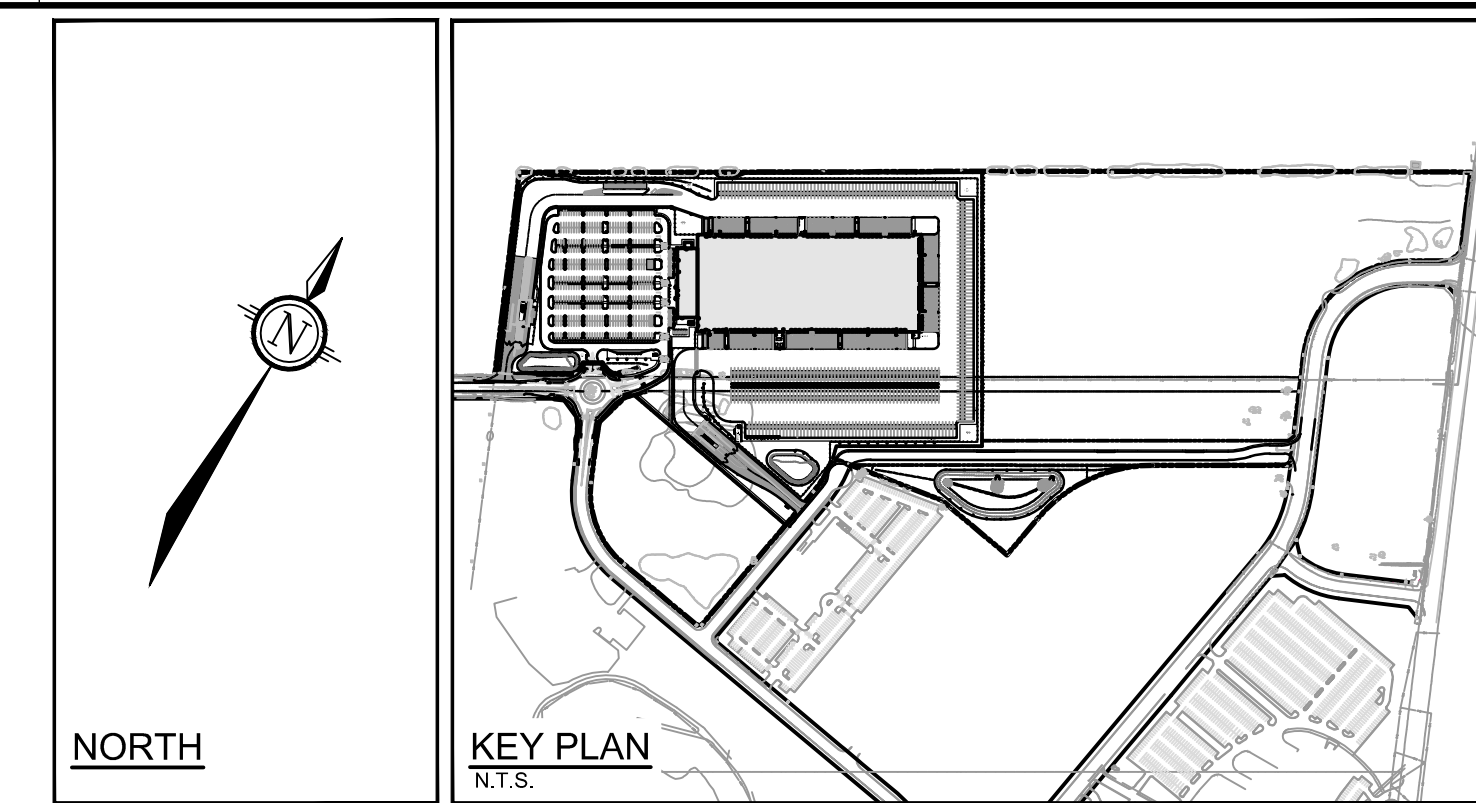
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NORTH RAMP

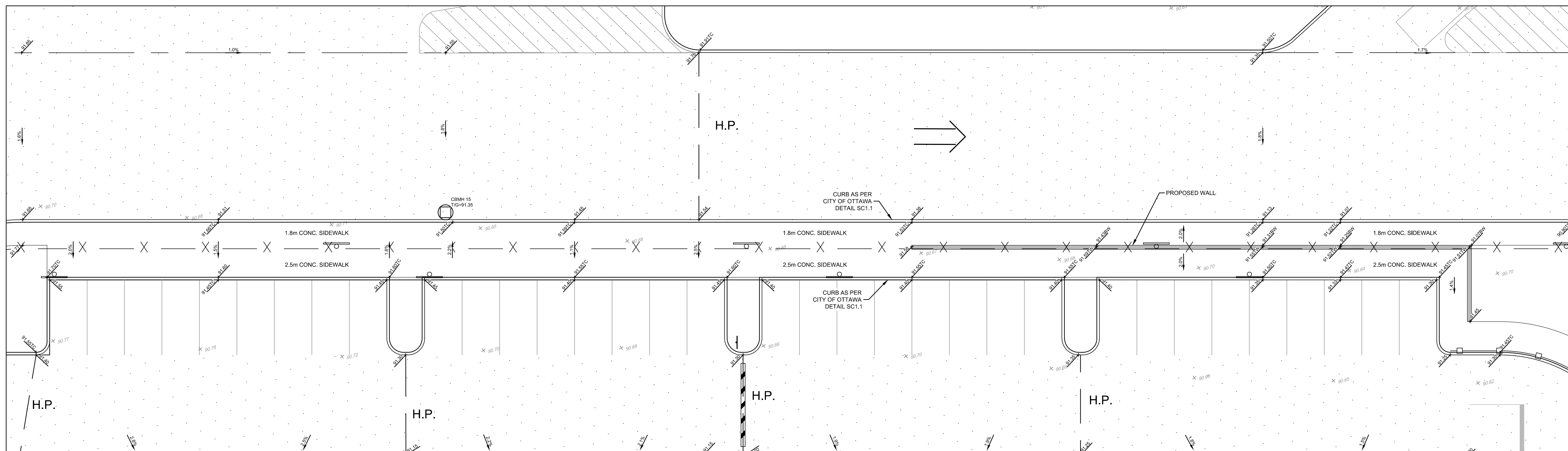


SOUTH RAMP



NORTH

KEY PLAN
N.T.S.



SIDEWALK WALL

LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
	PROPOSED HEADWALL (OPSD 804.040) CW GALVANIZED RAILING
	PROPOSED HEADWALL (OPSD 804.030) CW GALVANIZED RAILING
	PROPOSED FIRE HYDRANT
	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	PROPOSED HIGH POINT
	PROPOSED CURB
	PROPOSED DEPRESSED CURB
	PROPOSED FLUSH CURB
	PROPOSED ASPHALT PATHWAY
	PROPOSED CONCRETE TRUCK WHEEL STOP
	PROPOSED BITUMINOUS CONCRETE SPEED BUMP
	PROPOSED BOLLARDS (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
	TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SC7.3
	SWALE CW SUBDRAIN AND DIRECTION OF FLOW
	TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	BOTTOM OF SLOPE
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED SIGNAGE (REFER TO ARCHITECTURAL DRAWINGS)
	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
	TEST PIT LOCATION (REFER TO GEOTECH REPORT)
	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE CW GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

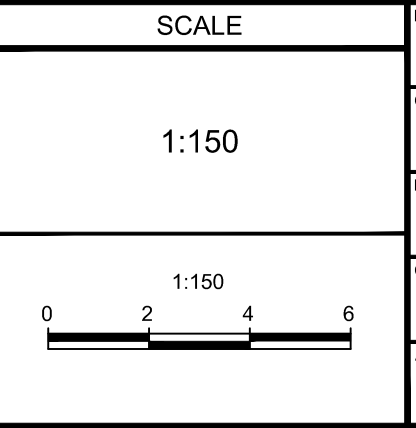
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c/o Russell Beach
16766 rue Trans-Canada, Suite 500
Kirkland, Quebec
H9H 4M7

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4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



FOR REVIEW ONLY

DESIGNER: MJH/ARM
CHECKED: JLS
DRAWN: MJH/ARM
CHECKED: JLS
APPROVED: JLS

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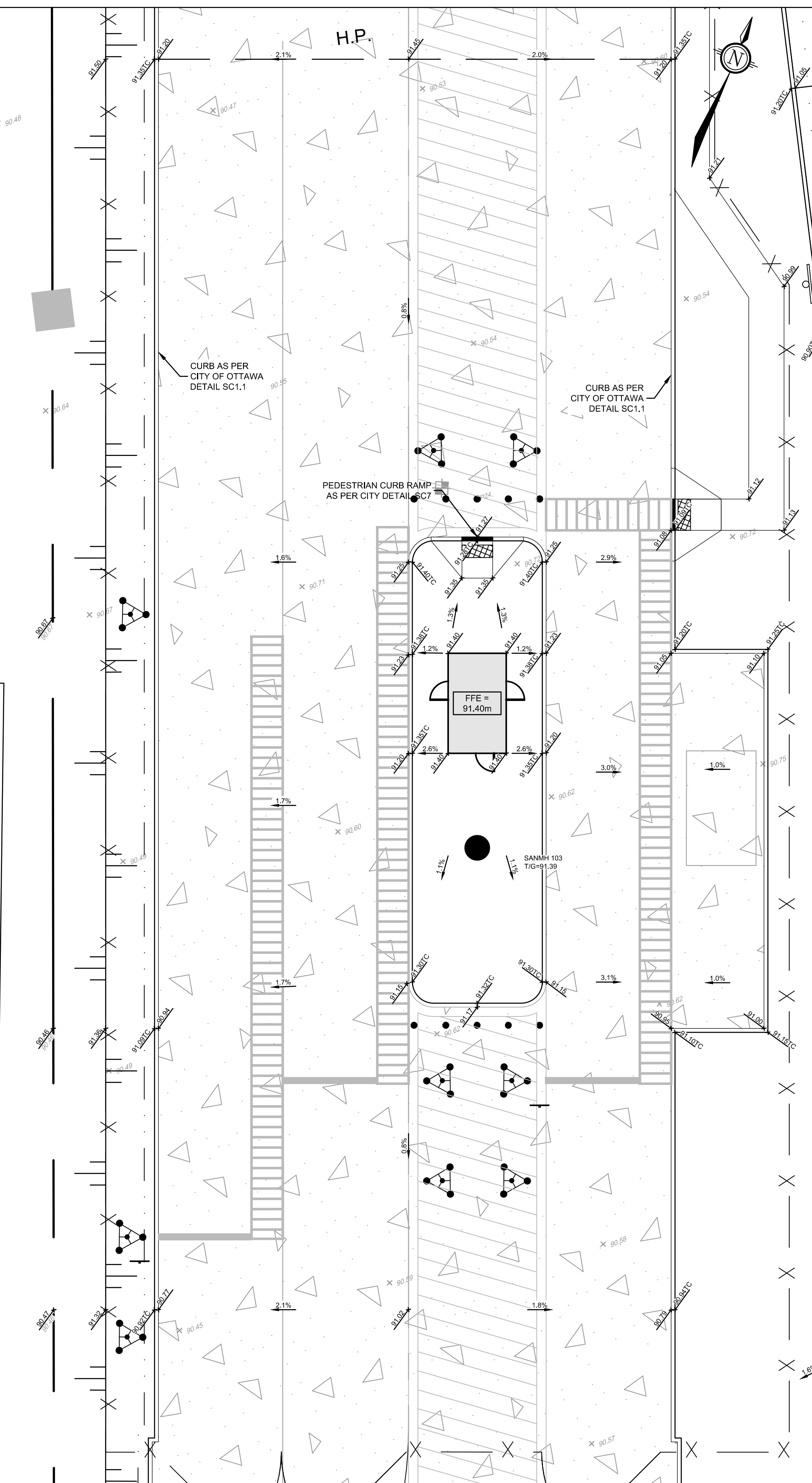
LOCATION
SORTATION FACILITY
99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
GRADING PLAN
DETAILS

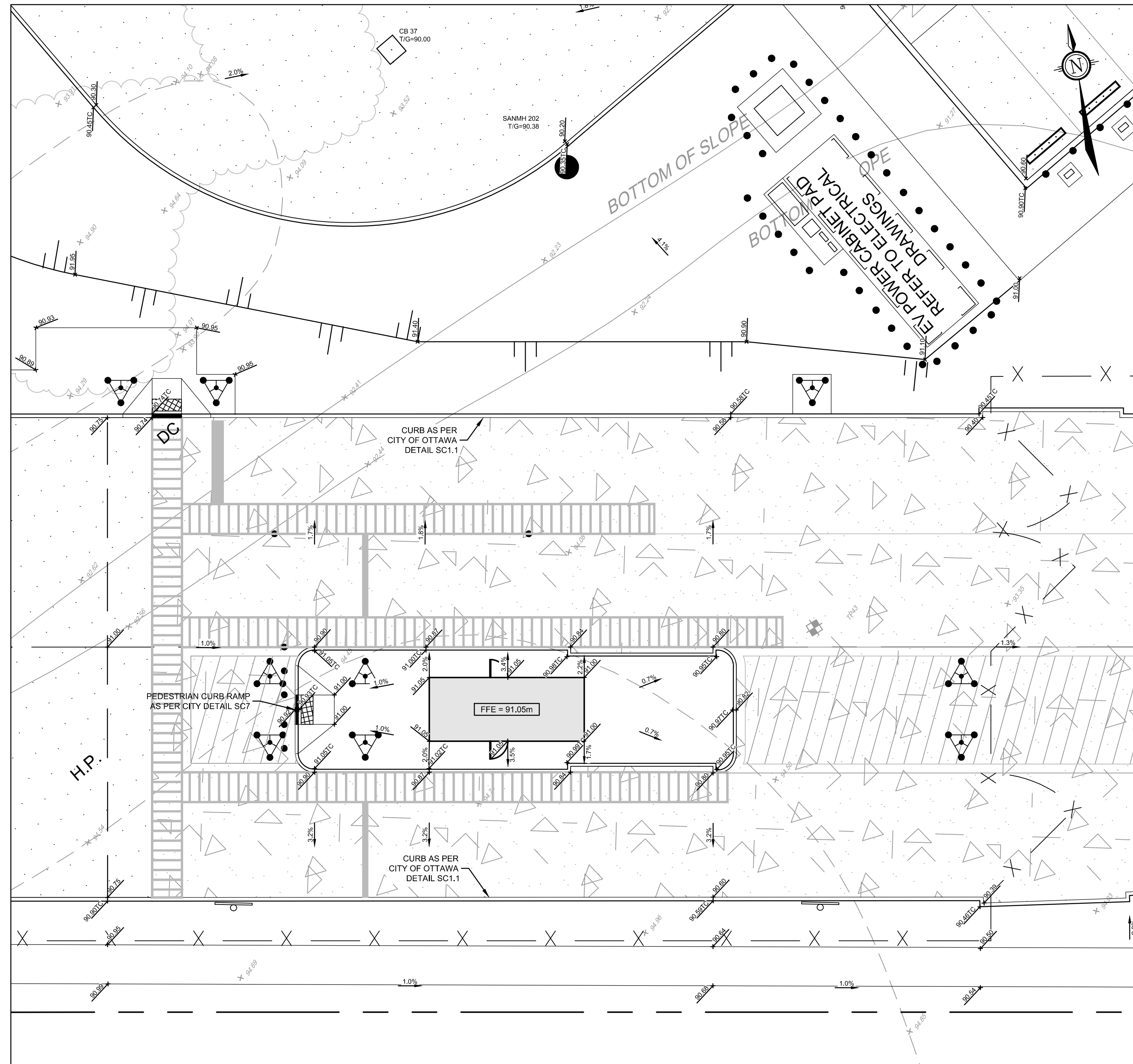
PROJECT NO.	121137
REV.	REV #4
DRAWING NO.	121137-GR6

PLAN # 18474

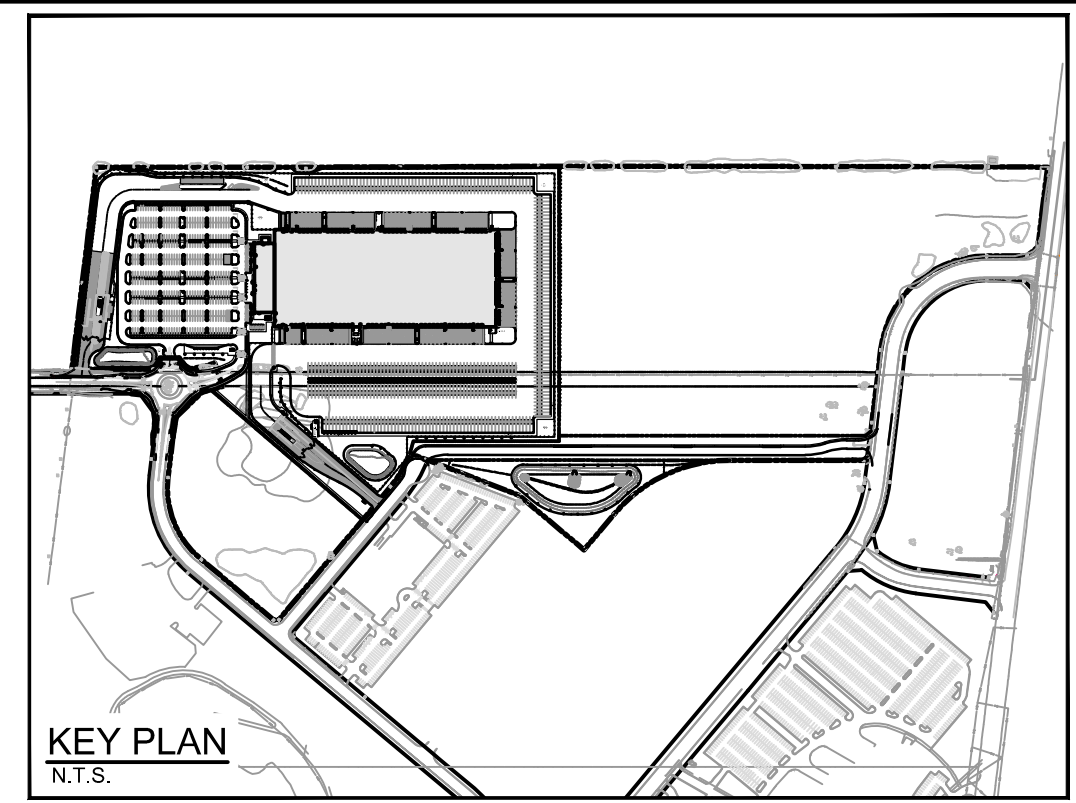
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WEST GUARD HOUSE GRADING



EAST GUARD HOUSE GRADING



KEY PLAN
N.T.S.

LEGEND	
	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED BOX MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED DOWNSPOUT CONNECTION (REFER TO DETAIL DWG. 121137-NDGP)
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	PROPOSED WATER METER CHAMBER
	PROPOSED VALVE AND VALVE BOX
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	SWALE C/W SUBDRAIN AND DIRECTION OF FLOW
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	BOTTOM OF SLOPE
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	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	PROPOSED CAMERA SENSOR AND BOLLARDS (REFER TO ARCHITECTURAL DRAWINGS)
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	EV POWER DISPENSER (REFER TO MECHANICAL DRAWINGS)
	BOREHOLE LOCATION (REFER TO GEOTECH REPORT)
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	CONE PENETRATION TEST LOCATION (REFER TO GEOTECH REPORT)
	EXISTING UTILITY POLE C/W GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

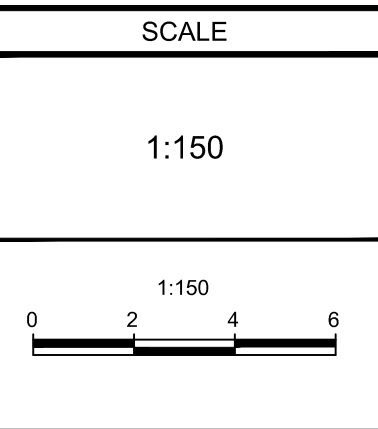
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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH



DESIGN	MJH/ARM
CHECKED	JLS
DRAWN	MJH/ARM
CHECKED	JLS
APPROVED	JLS



NOVATECH
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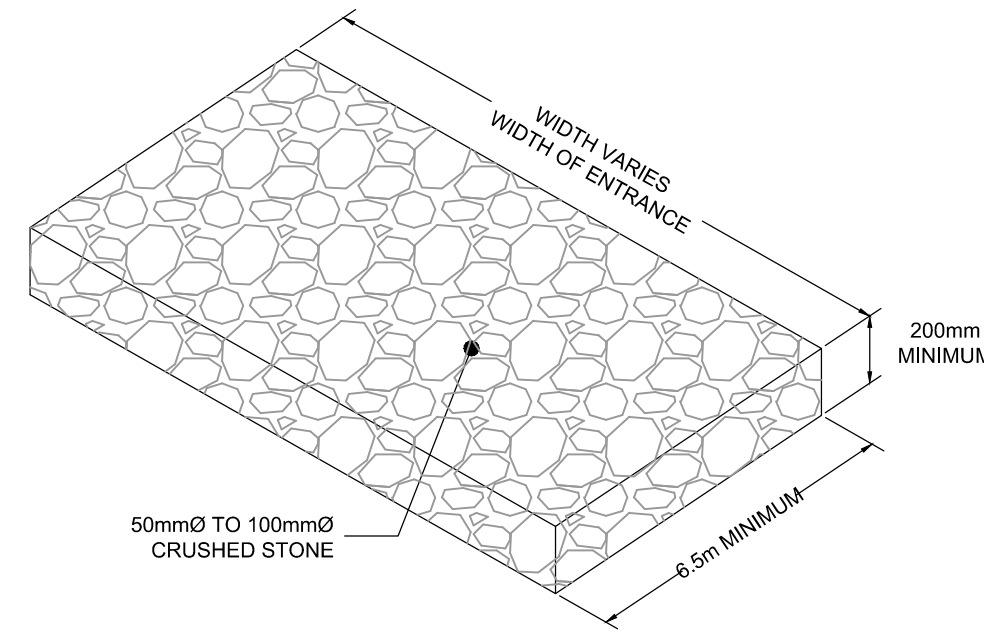
LOCATION SORTATION FACILITY 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA	
DRAWING NAME GRADING PLAN DETAILS	PROJECT NO. 121137
	REV #4
	DRAWING NO. 121137-GR7

EROSION AND SEDIMENT CONTROL NOTES:

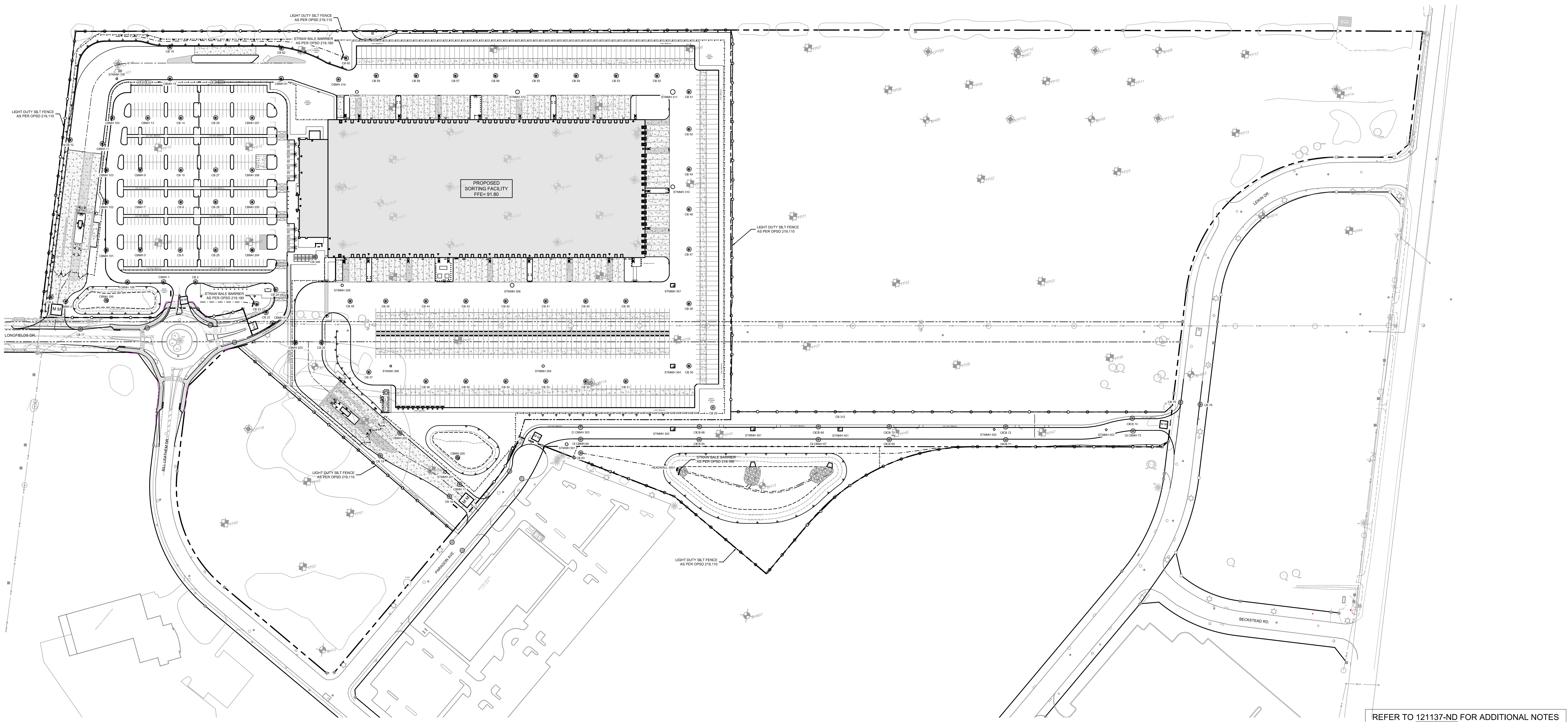
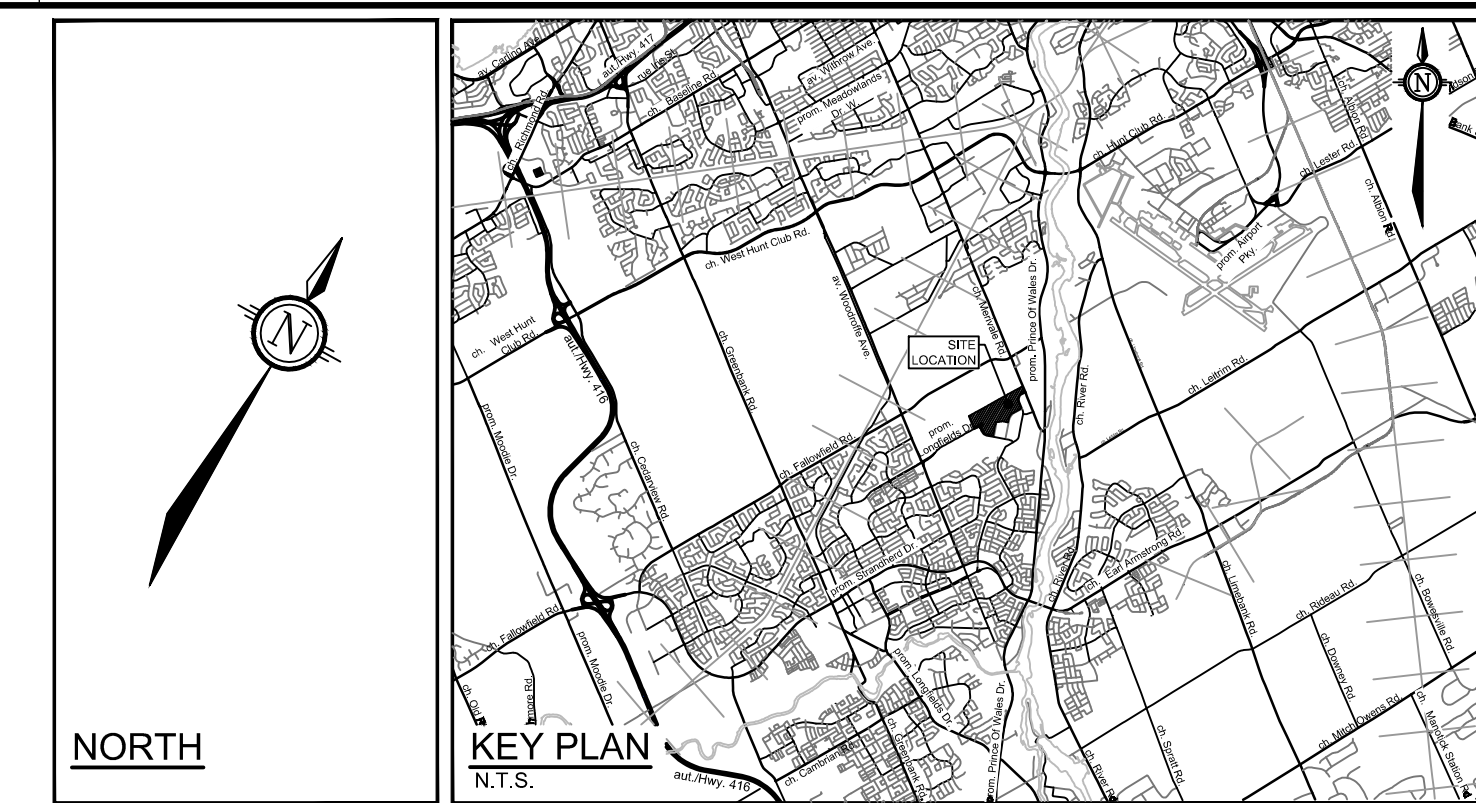
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - THE CONTRACTOR SHALL PLACE FILTER BAGS UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - PROVIDE MUD MATS AT ALL CONSTRUCTION ACCESS POINTS TO MINIMIZE SEDIMENT TRANSPORT OFFSITE.
 - EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.

LEGEND

- PROPERTY LINE
- PROPOSED CURB
- PROPOSED ASPHALT PATHWAY
- PROPOSED SWALE
- TERACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- PROPOSED FILTER BAGS AT CATCHBASINS, CATCHBASIN MANHOLES AND TRENCHDRAINS
- PROPOSED MUD MAT
- PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
- PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
- LIGHT DUTY SILT FENCE (OPSD 219.110)
- PROPOSED STORM MANHOLE
- PROPOSED BOX MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED HEADWALL (OPSD 804.040) CW GALVANIZED RAILING
- PROPOSED HEADWALL (OPSD 804.030) CW GALVANIZED RAILING
- PROPOSED BUILDING ENTRANCE
- STRAWBALE CHECK DAM (OPSD 219.180)
- RIP-RAP
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING LIGHT STANDARD
- EXISTING FENCE



MUD MAT DETAIL
NOT TO SCALE



REFER TO 121137-ND FOR ADDITIONAL NOTES

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

Owner:
Medusa LP
c/o Russell Beach
16766 rue Trans-Canada, Suite 500
Kirkland, Quebec
H9H 4M7

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY
4.	REVISED PER CITY COMMENTS	AUG 06/2021	MJH
3.	ISSUED FOR SUPERSTRUCTURE AND ENVELOPE PERMIT	JULY 9/2021	MJH
2.	ISSUED FOR FOUNDATION PERMIT	JUNE 8/2021	MJH
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH

SCALE	
1:1250	1:1250
0	10 20 30 40 50

PERM: MJH/ARM
CHECKED: JLS
DRAWN: MJH/ARM
CHECKED: JLS
APPROVED: JLS



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	DRAWING NO.: 121137-ESC

D07-12-21-0079
PLAN # 18474