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Legend



Subject Lands

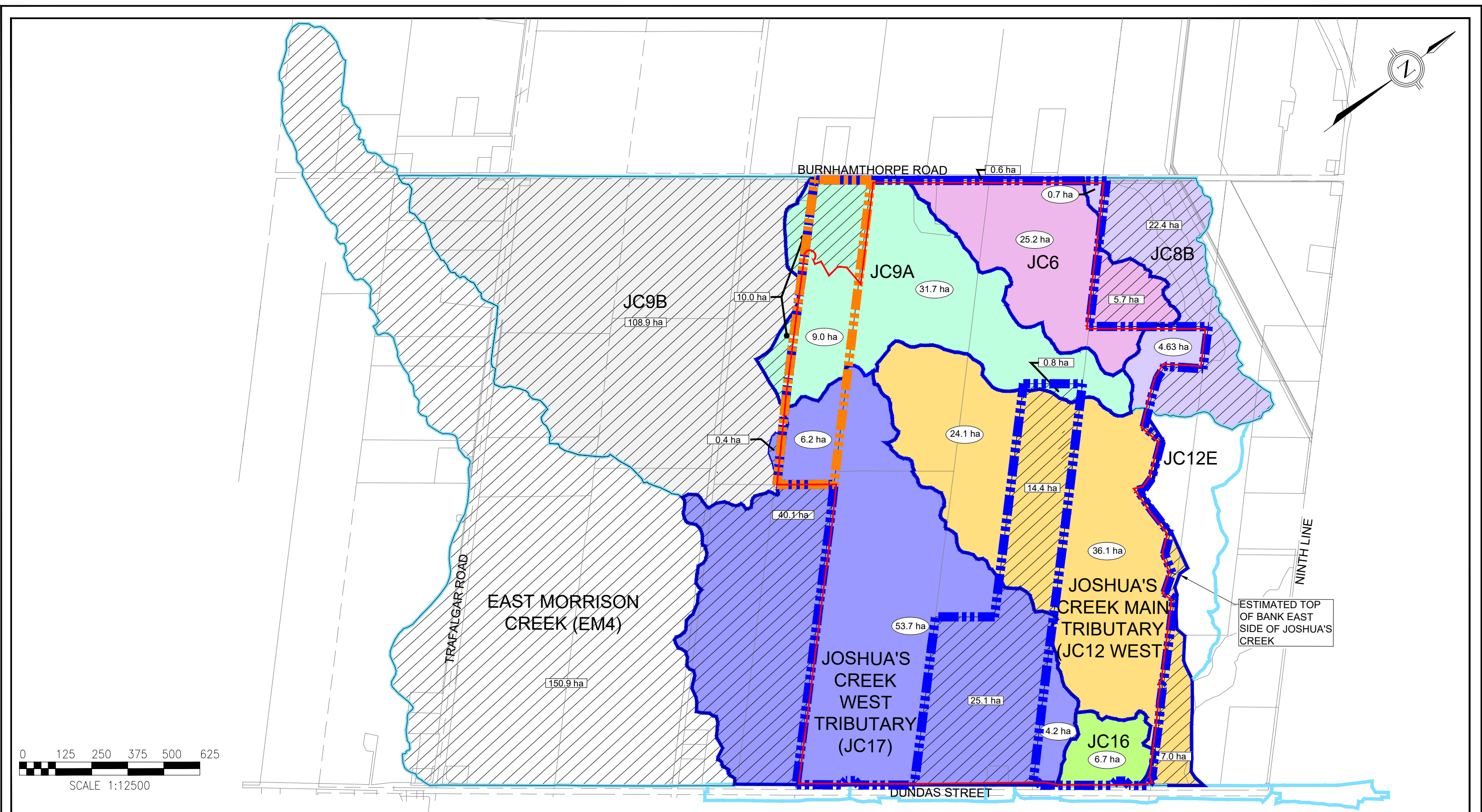


Coscorp (Rampen) Lands

COSCORP (RAMPEN) ADDENDUM TO THE
JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 1.1
LOCATION OF
SUBJECT LANDS

JULY 2022



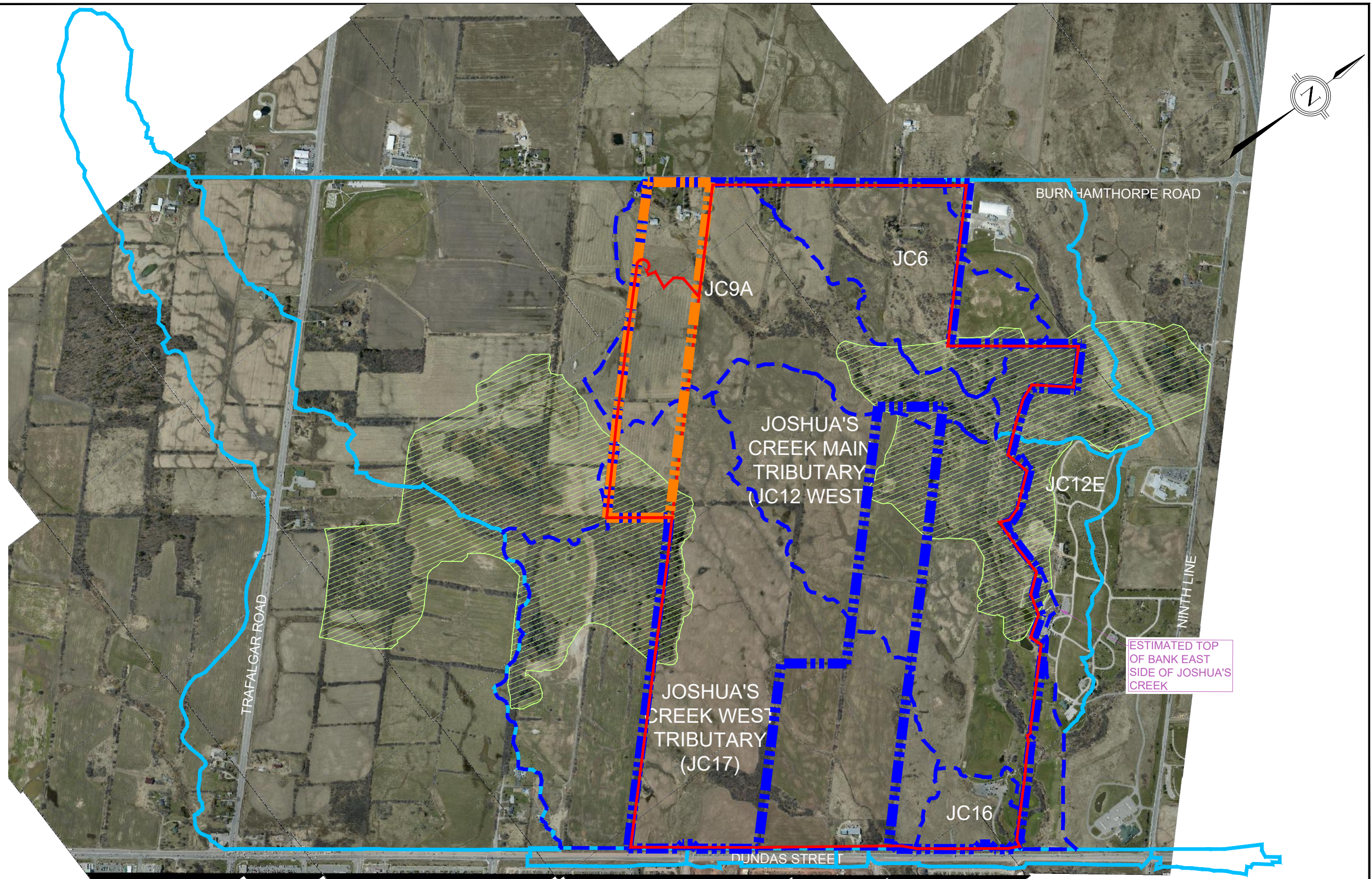
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- Legend**
- Coscorp (Rampen) Lands
 - EIR Subcatchment Boundaries
 - FSS Study Area
 - Subject Lands
 - Adjacent Subcatchment Boundaries
 - Subcatchment Areas Outside of Subject Lands
 - 150.9 ha Subcatchment Area Outside of Subject Lands
 - 46.6 ha Subcatchment Area Within Subject Lands

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 1.2
 Subcatchment Areas Within Subject Lands

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ESTIMATED TOP OF BANK EAST SIDE OF JOSHUA'S CREEK

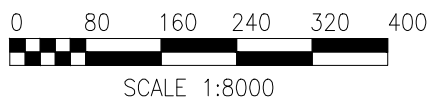
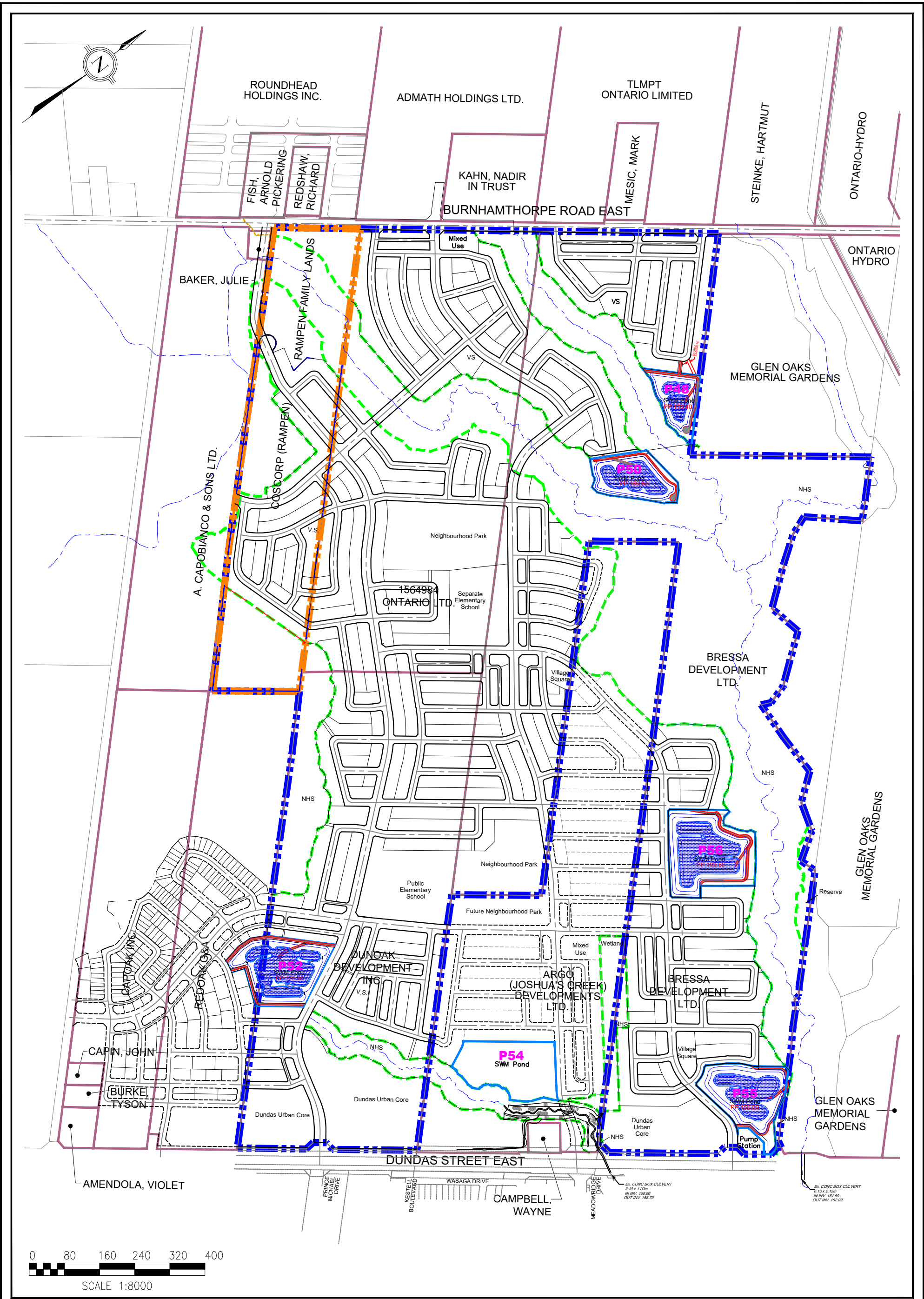
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- Legend**
- ▬▬▬▬▬▬ Coscorp (Rampen) Lands
 - - - - - EIR Subcatchment Boundaries
 - ▬▬▬▬▬▬ FSS Study Area
 - ▬▬▬▬▬▬ Subject Lands
 - ▬▬▬▬▬▬ Adjacent Subcatchment Boundaries
 - ▨▨▨▨▨▨ Core Boundary

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 1.3
 EIR Subcatchment and FSS Study Areas

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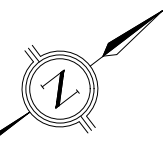
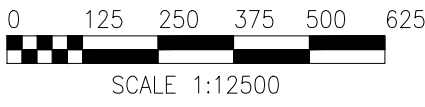
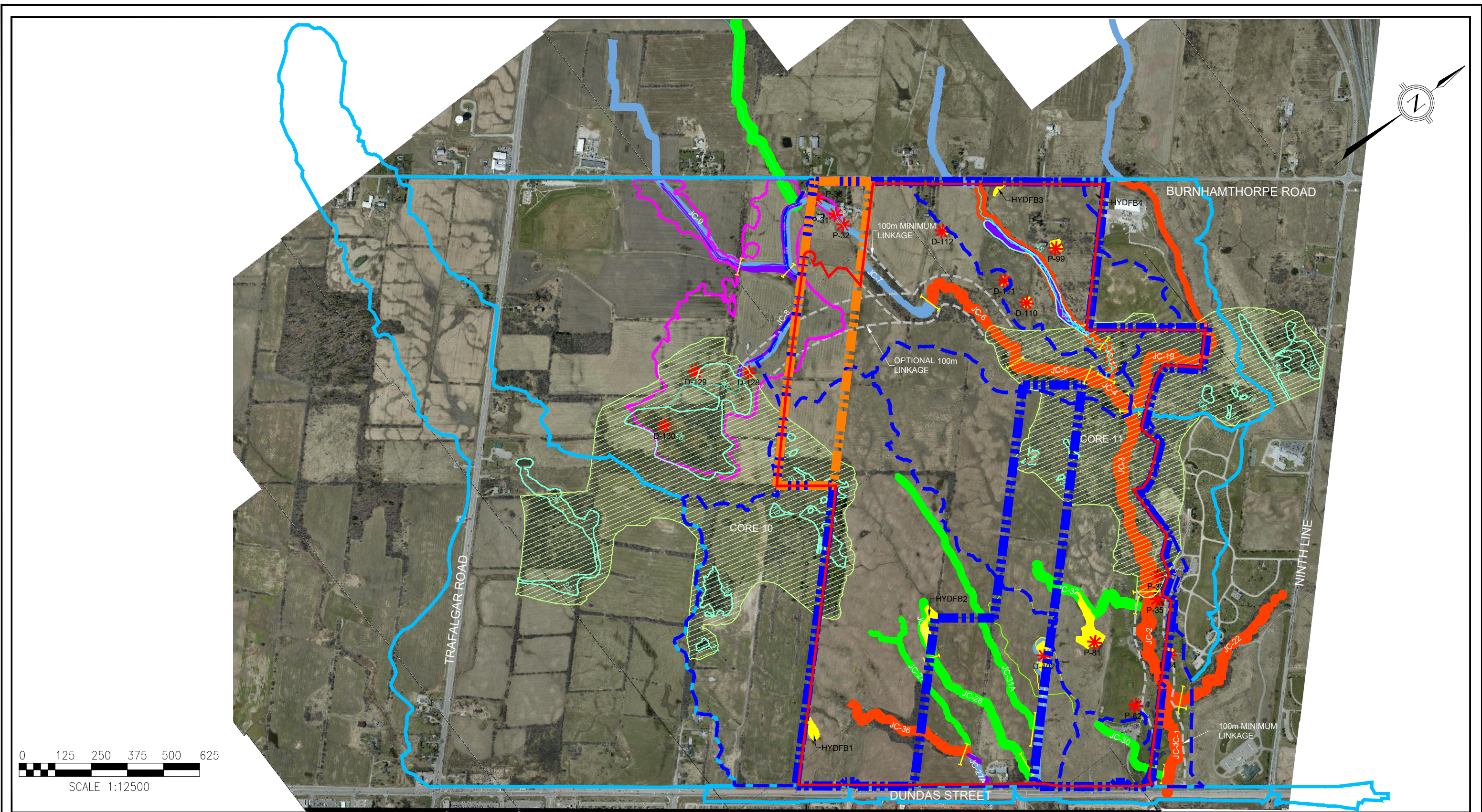


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- Legend**
- ▬▬▬▬▬▬ Subject Lands
 - ▬▬▬▬▬▬ Ownership Boundary
 - ▬▬▬▬▬▬ Coscorp (Rampen) Lands
 - ▬▬▬▬▬▬ NHS Limits

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 1.4

LAND OWNERSHIP
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- Legend**
- Coscorp (Rampen) Lands
 - EIR Subcatchment Boundaries
 - FSS Study Area
 - Subject Lands
 - Adjacent Subcatchment Boundaries

- Core Boundary
- * Topographic Depression or Pond (as per NOCSS Figure 6.3.15)
- JC-2 Stream Reach Identification (NOCSS)
- Stream Reach Break

- Hydrologic Feature 'A'
- Hydrologic Feature 'B'
- Low Constraint Stream Corridors
- Med. Constraint Stream Corridors
- High Constraint Stream Corridors

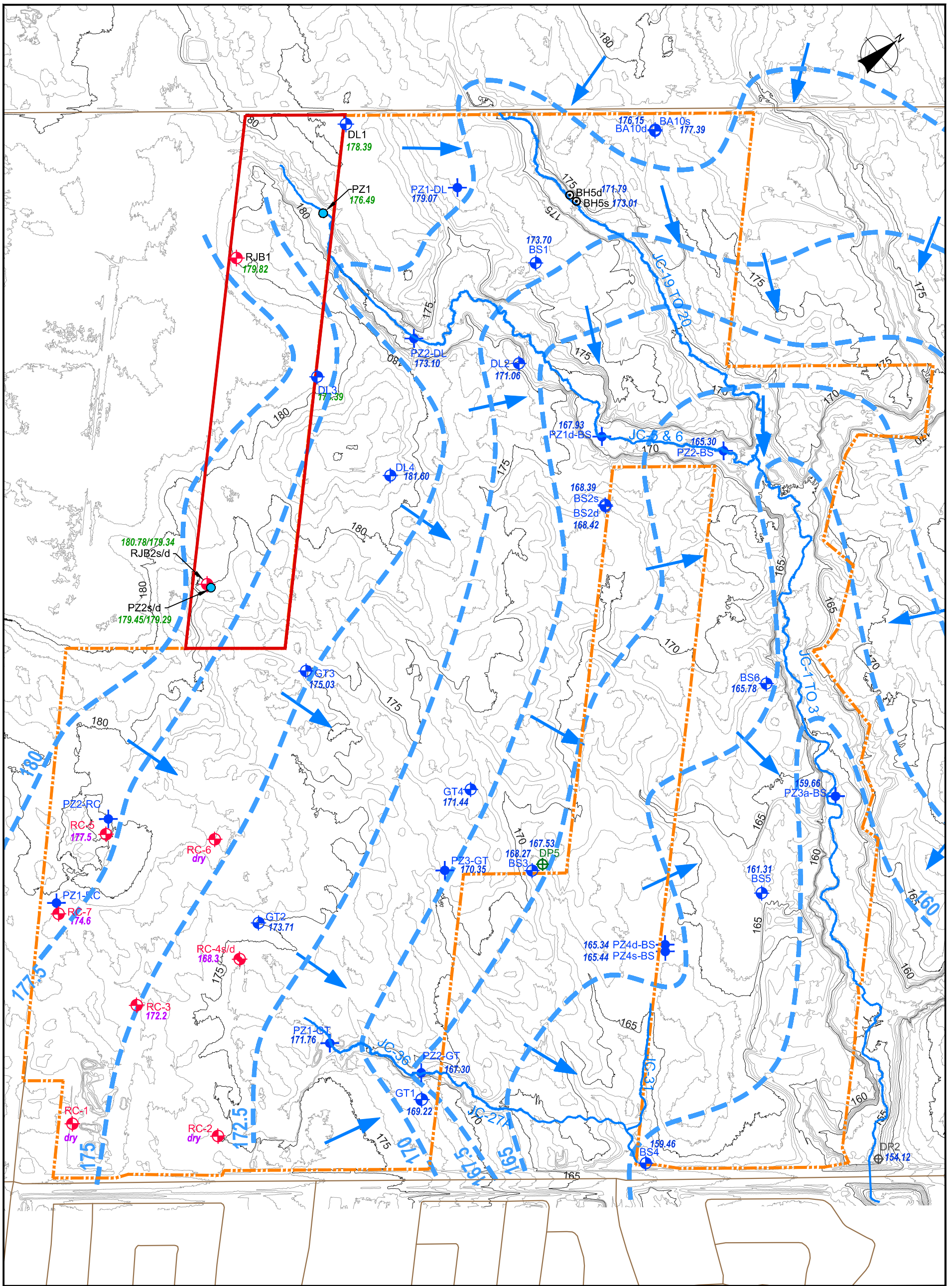
- Note:
 Data from Town's OPA 272
 Figure NOE3 and NOCSS
 Figure 6.3.15
- Linkage
 - Joshua's Creek Floodplain Area
 - Wetland
 - 27 PSW ID Number

COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 2.1

NHS Framework

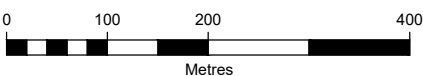
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Legend:

- Subject Lands
- Coscorp Lands
- Watercourse
- Topographical Contour (masl - 5m intervals)
- Topographical Contour (1m intervals)
- Monitoring Well (RJB, 2018)
- Monitoring Well (Beatty, 2005)
- Piezometer
- Drive Point Piezometer (2018)
- Drive Point Piezometer (2005)
- Interpreted Groundwater Contour (masl)
- 145 Water Elevation (masl - April 2014)
- 145 Water Elevation (masl - January 18, 2018)
- 145 Water Elevation (masl - May 2, 2019)
- Interpreted Groundwater Flow Direction

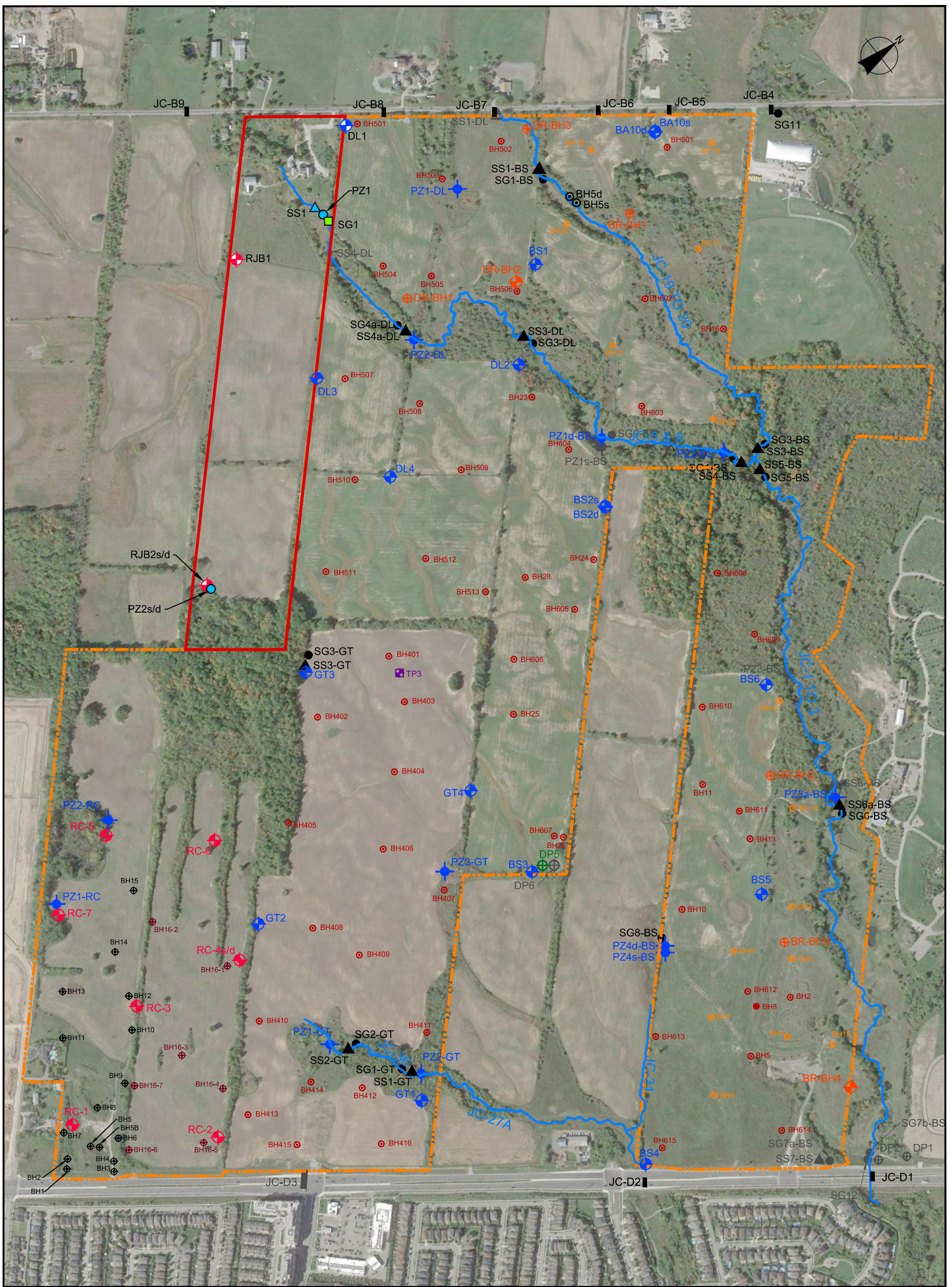


**COSCROP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.11

INTERPRETED GROUNDWATER FLOW

JULY 2022

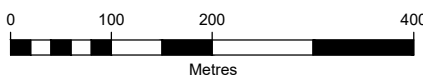


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Legend:

- Subject Lands
- Coscorp Lands
- Watercourse
- Monitoring Well (RJB, installed 2017 to 2018)
- Monitoring Well (Beatty, 2005)
- Piezometer
- Staff Gauge
- ▲ Surface Water Monitoring Station
- Test Pit (Eyles & Eyles, 2003)
- Drive Point Piezometer (2018)
- Staff Gauge (2018)
- ▲ Surface Water Monitoring Location (2018)
- Culvert
- ⊕ Drivepoint (NOCSS, 2006)
- ⊕ Borehole (AMEC, 2006)
- ⊕ Borehole (Source unknown)
- ⊕ Borehole (AME, 2002)
- ⊕ Borehole (AME, 2014)
- ⊕ Borehole (EXP, 2015)
- ⊕ Borehole (WSP, 2016)

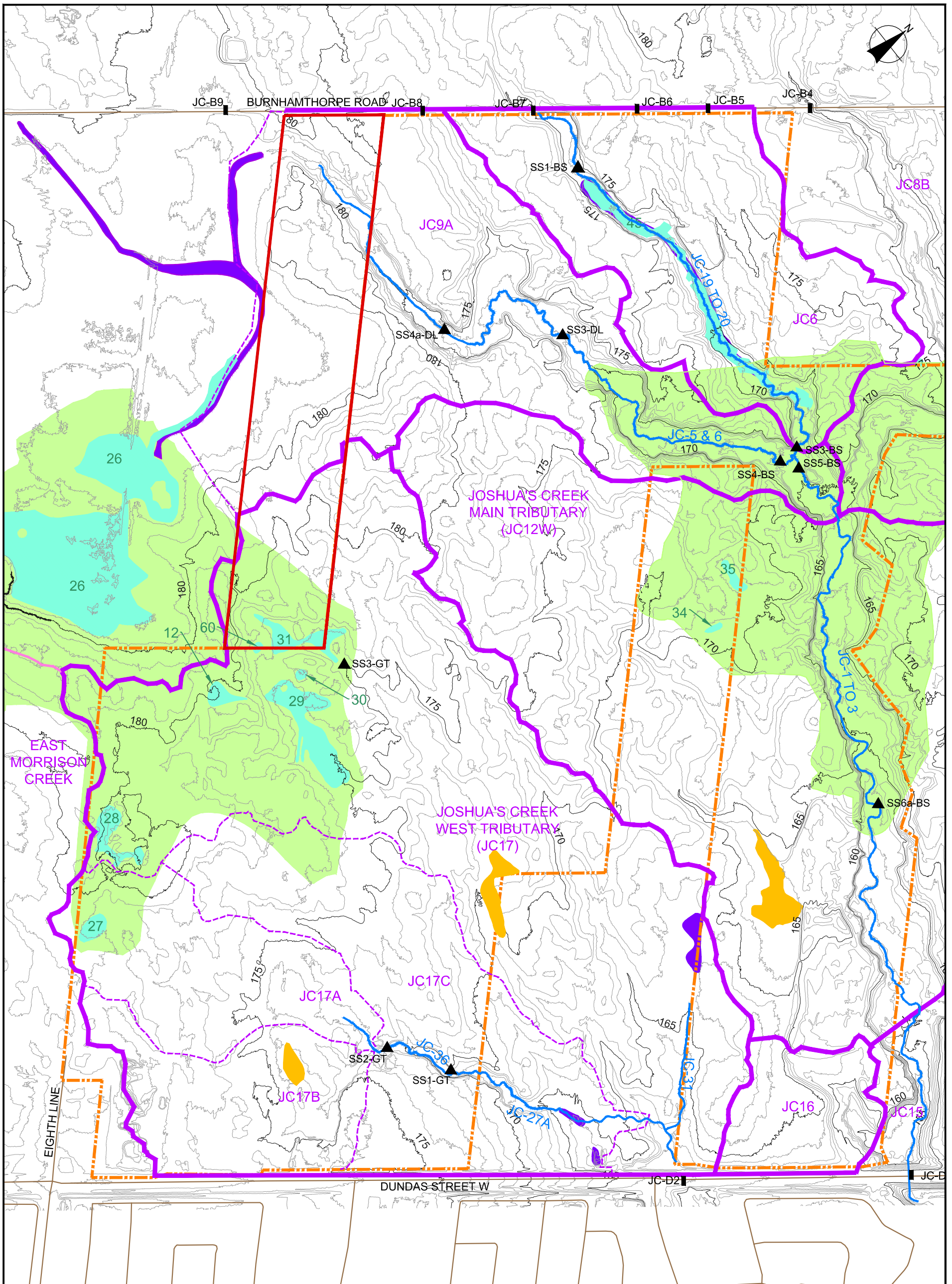
Note: Instrumentation shown in grey is destroyed or missing



**COSCORP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

**FIGURE 4.1
 DRILLING
 AND MONITORING LOCATIONS**

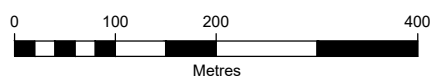
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Legend:

- Subject Lands
- Coscorp Lands
- Watercourse
- EIR Subcatchment Areas
- Internal Drainage Boundary
- Adjacent Subcatchment Boundary
- Topographical Contour (masl - 5m intervals)
- Topographical Contour (masl - 1m intervals)
- Provincially Significant Wetland
- Core Area
- Hydrologic Feature "A"
- Hydrologic Feature "B"
- Culvert
- Surface Water Monitoring Station

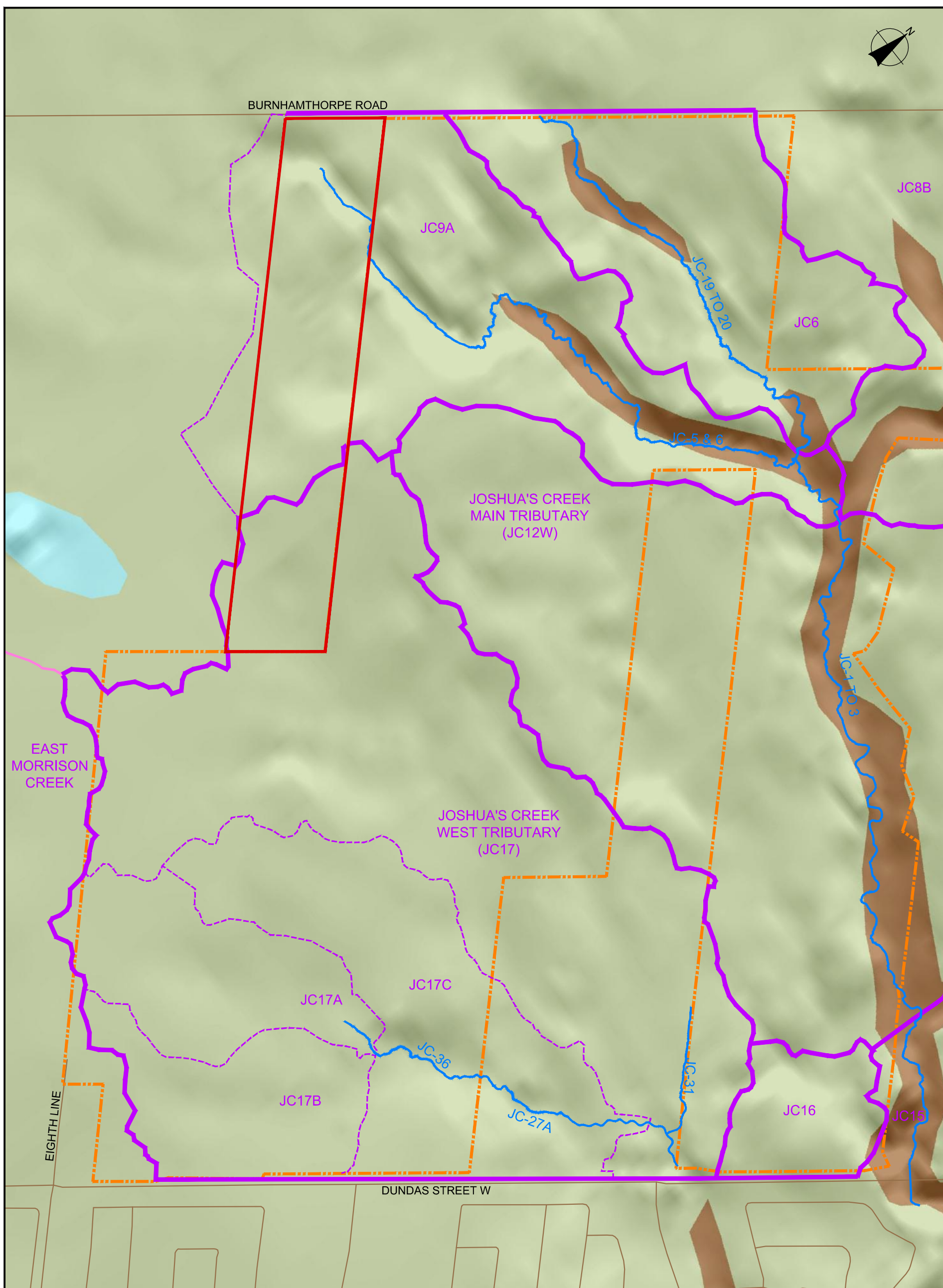


**COSCORP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.2

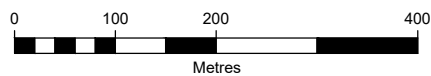
TOPOGRAPHY AND DRAINAGE

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- Legend:**
- Subject Lands
 - Coscorp Lands
 - Watercourse
 - EIR Subcatchment Areas
 - Internal Drainage Boundary
 - Roadway
- Surficial Geology:**
- Glacial Deposits (till) - clayey silt to silt
 - River Deposits - sand and gravel
 - Glaciolacustrine Deposits - clay, silt

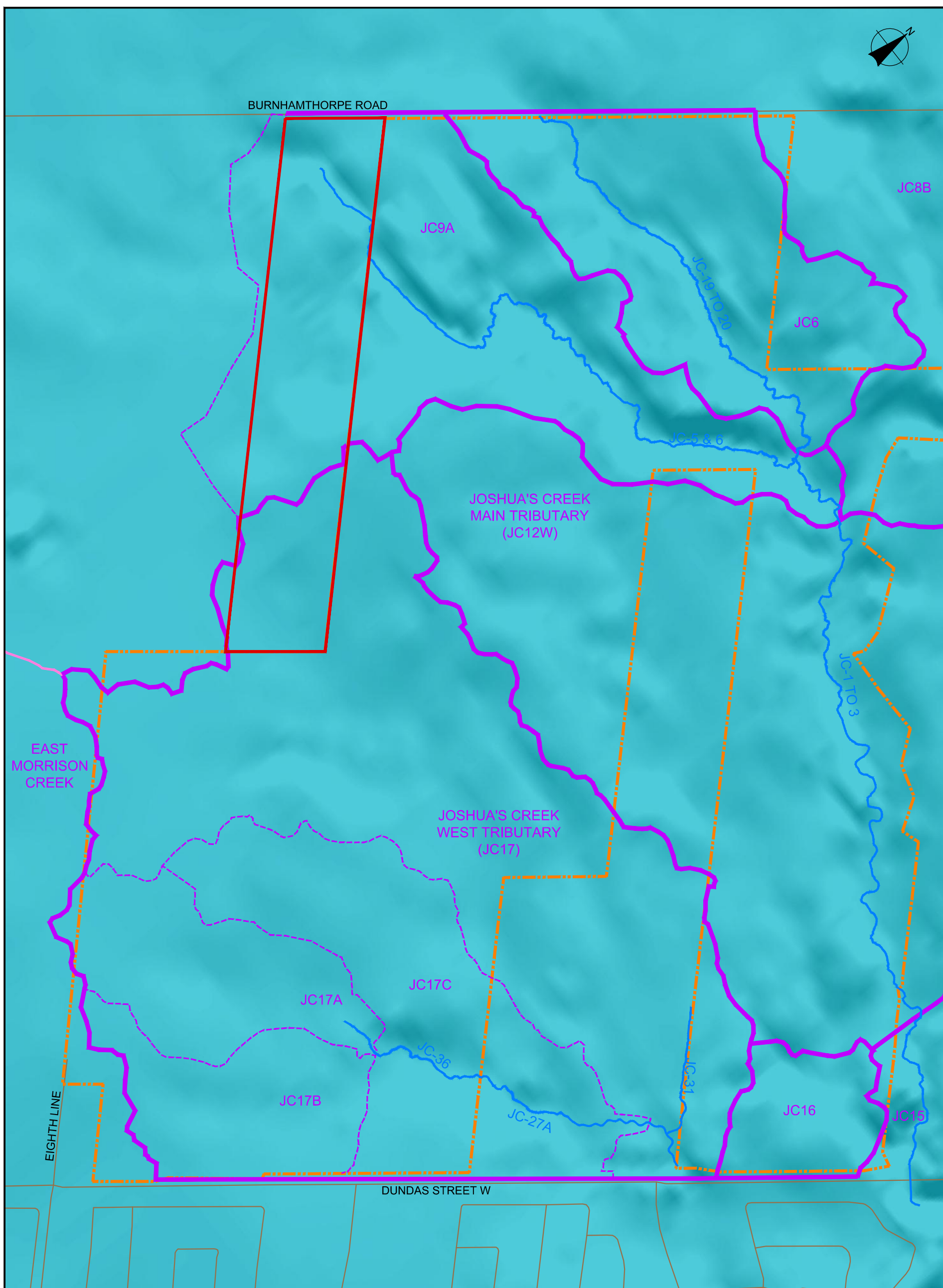


**COSCORP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.3

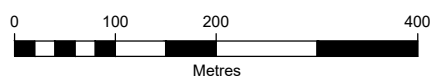
SURFICIAL GEOLOGY

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- Legend:**
- Subject Lands
 - Coscorp Lands
 - Watercourse
 - EIR Subcatchment Areas
 - Internal Drainage Boundary
 - Roadway
- Bedrock Geology:**
- Queenston Formation - red shale

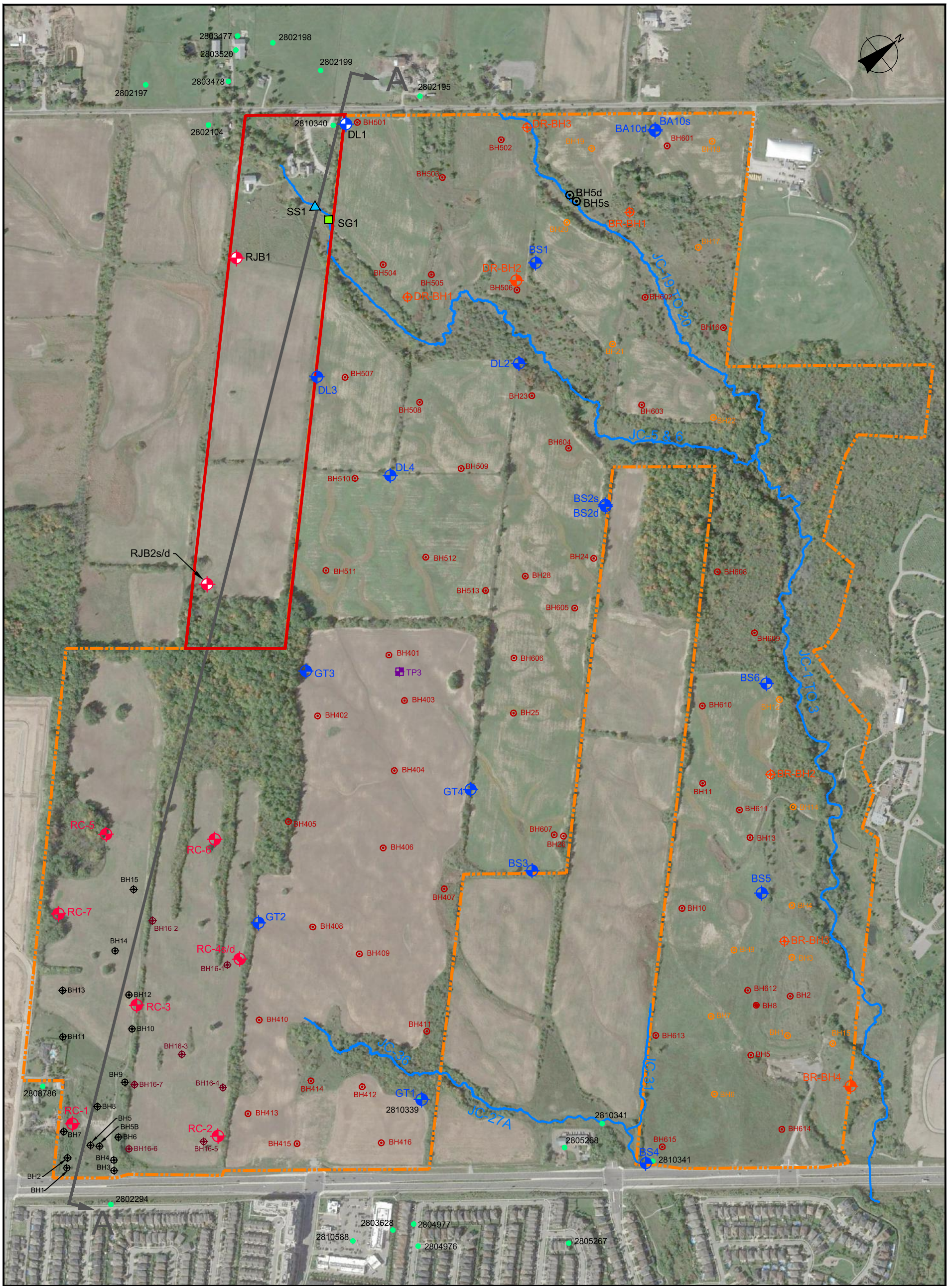


**COSCORP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.4

BEDROCK GEOLOGY

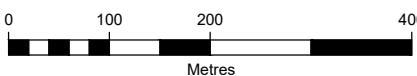
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Legend:

- Subject Lands
- Coscorp Lands
- Watercourse
- Monitoring Well (RJB, installed 2017 to 2018)
- Monitoring Well (Beatty, 2005)
- Piezometer
- Staff Gauge
- ▲ Surface Water Monitoring Station
- Test Pit (Eyles & Eyles, 2003)
- Drivepoint (NOCSS, 2006)
- Borehole (AMEC, 2006)
- Borehole (Source unknown)
- Borehole (AME, 2002)
- Borehole (AME, 2014)
- Borehole (EXP, 2015)
- Borehole (WSP, 2016)
- MECP Well Record Location
- ▲ Cross-Section Location Key



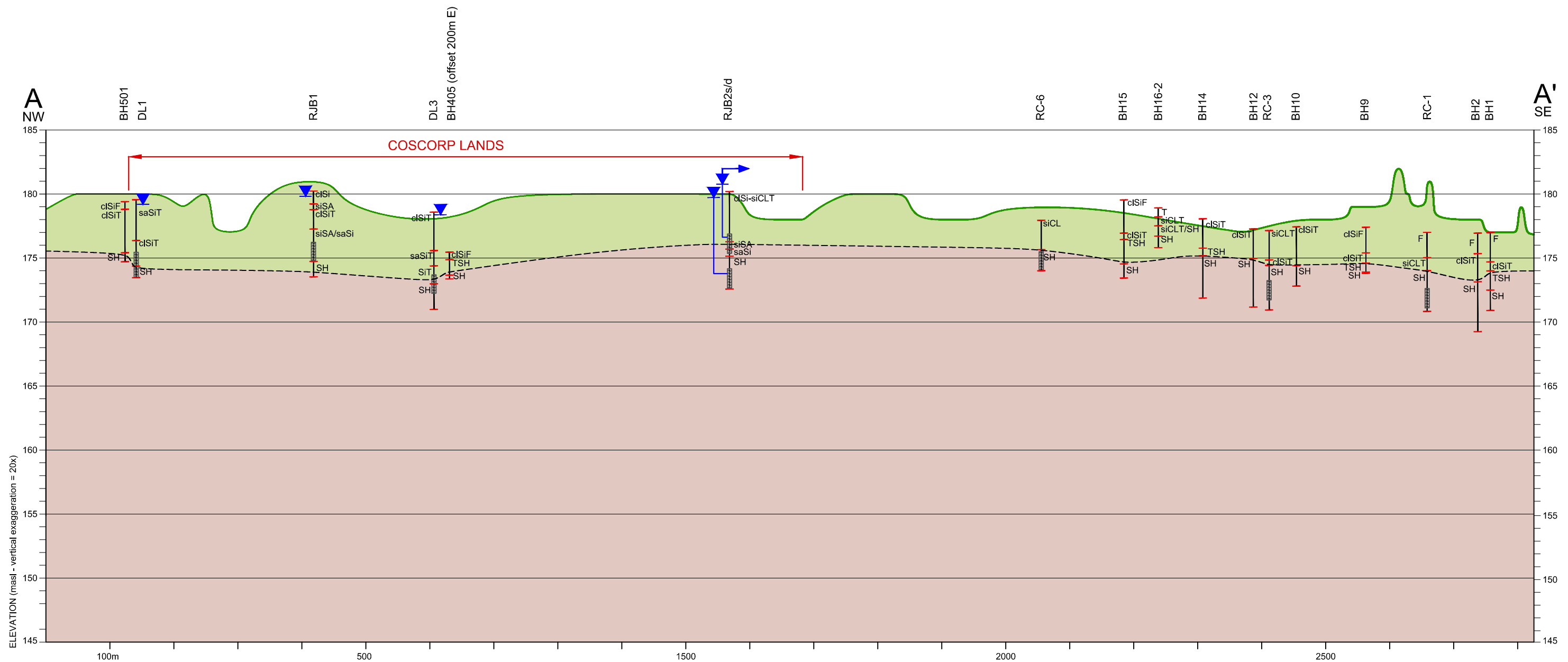
Note: Instrumentation shown in grey is destroyed or missing

**COSCORP JOSHUA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.5

CROSS-SECTION LOCATION KEY

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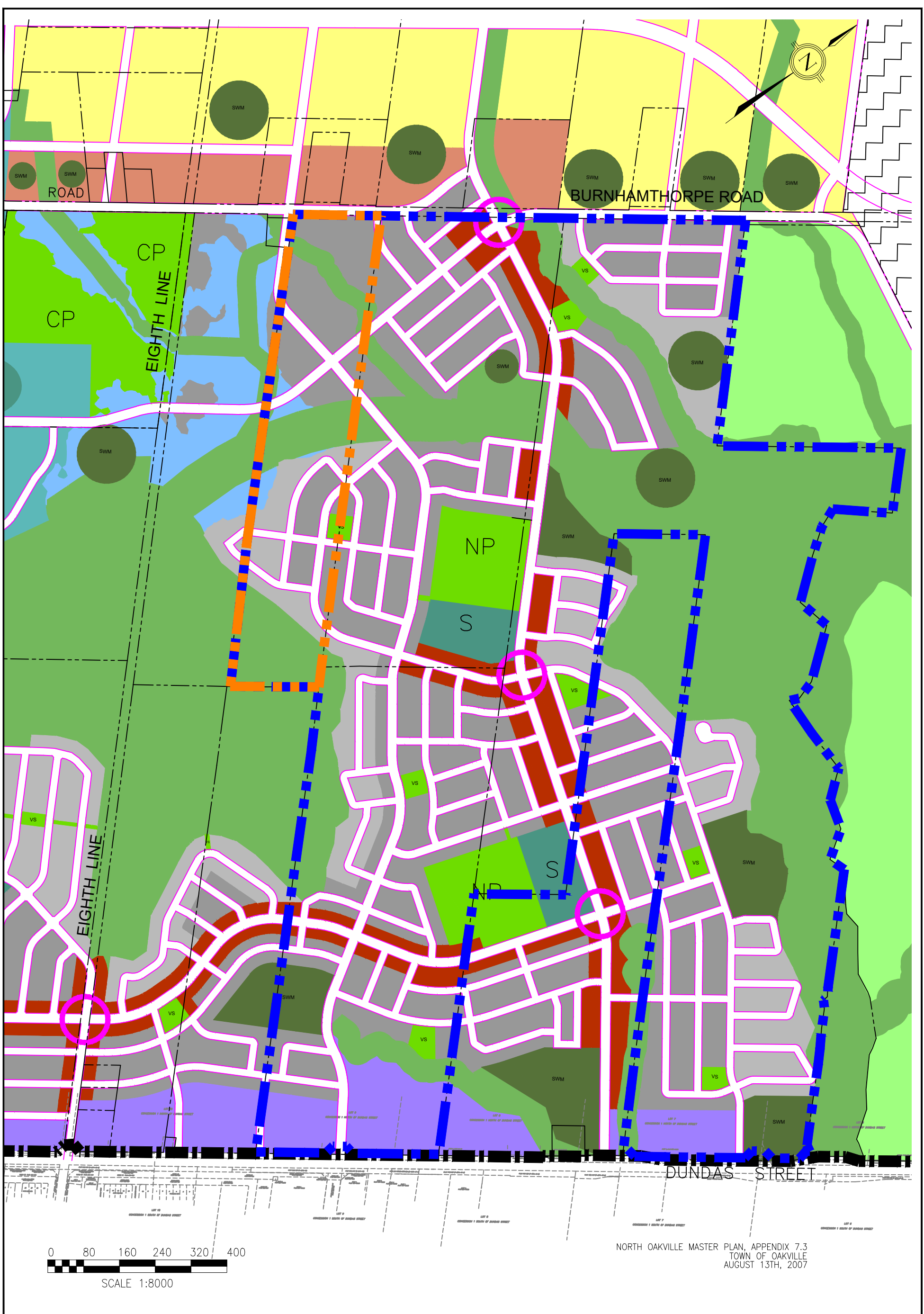
- WELL IDENTIFICATION
- WELL
- GEOLOGICAL CONTACT
- MEASURED WATER LEVEL (May 2, 2019)
- SCREEN

- | | | | |
|-----|---------|--|------------------------------|
| si | SILTY | | OVERBURDEN - SAND AND GRAVEL |
| sa | SANDY | | OVERBURDEN - GLACIAL TILL |
| cl | CLAYEY | | BEDROCK - RED SHALE |
| F | FILL | | WATERCOURSE CROSSING |
| TS | TOPSOIL | | INDICATES FLOWING |
| SA | SAND | | |
| Si | SILT | | |
| CL | CLAY | | |
| BLD | BOULDER | | |
| STN | STONES | | |
| T | TILL | | |
| SH | SHALE | | |


**COSCORP JOSUHA'S CREEK
 EIR / FSS ADDENDUM**

FIGURE 4.6
**Interpreted Geological
 Cross-section A-A'**

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Legend
 Subject Lands
 Coscorp (Rampen) Lands

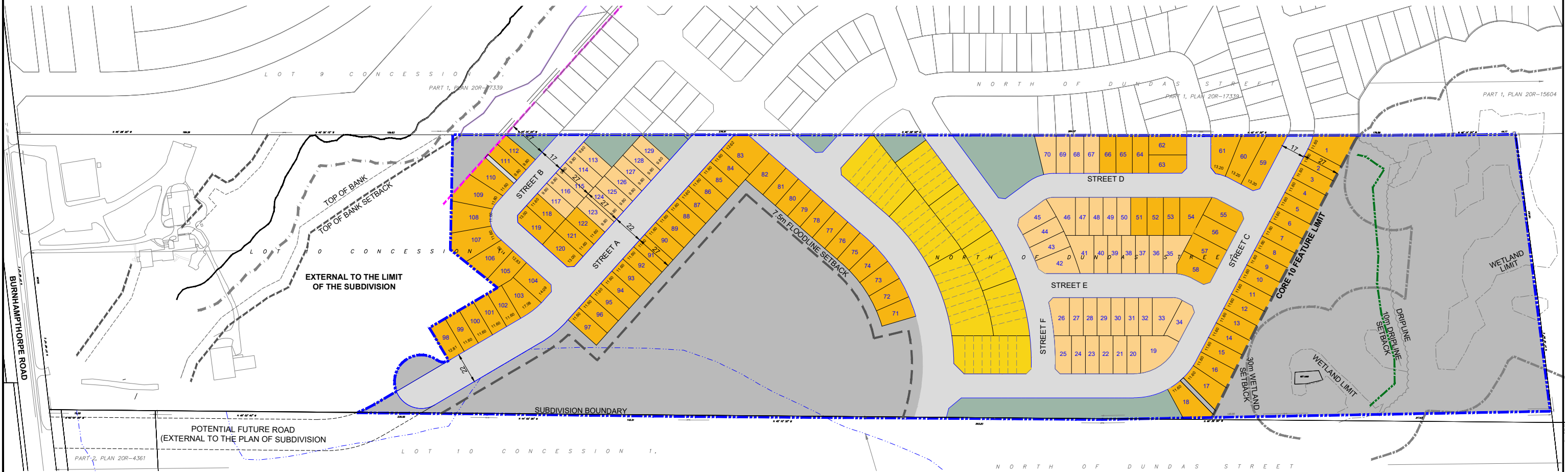
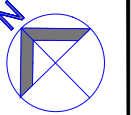
NORTH OAKVILLE MASTER PLAN, APPENDIX 7.3
 TOWN OF OAKVILLE
 AUGUST 13TH, 2007

COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 6.1

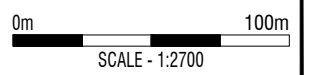
NORTH OAKVILLE MASTER PLAN

JULY 2022



LEGEND:

	SUBDIVISION BOUNDARY LINE		BUFFER / OPEN SPACE
	TOP OF BANK		PART BLOCKS
	TOP OF BANK SETBACK		RESIDENTIAL BLOCKS (11.6m WIDTH)
	FISHERIES SETBACK (15m)		RESIDENTIAL BLOCKS (9.8m WIDTH)
	LPA LIMIT		RESIDENTIAL BLOCKS (6.1m WIDTH TOWNHOMES)
	WETLAND		
	WETLAND SETBACK		
	DRIPLINE		
	DRIPLINE SETBACK		
	PROPOSED FLOODLINE		

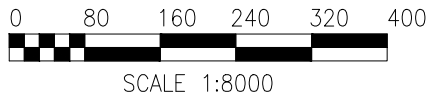
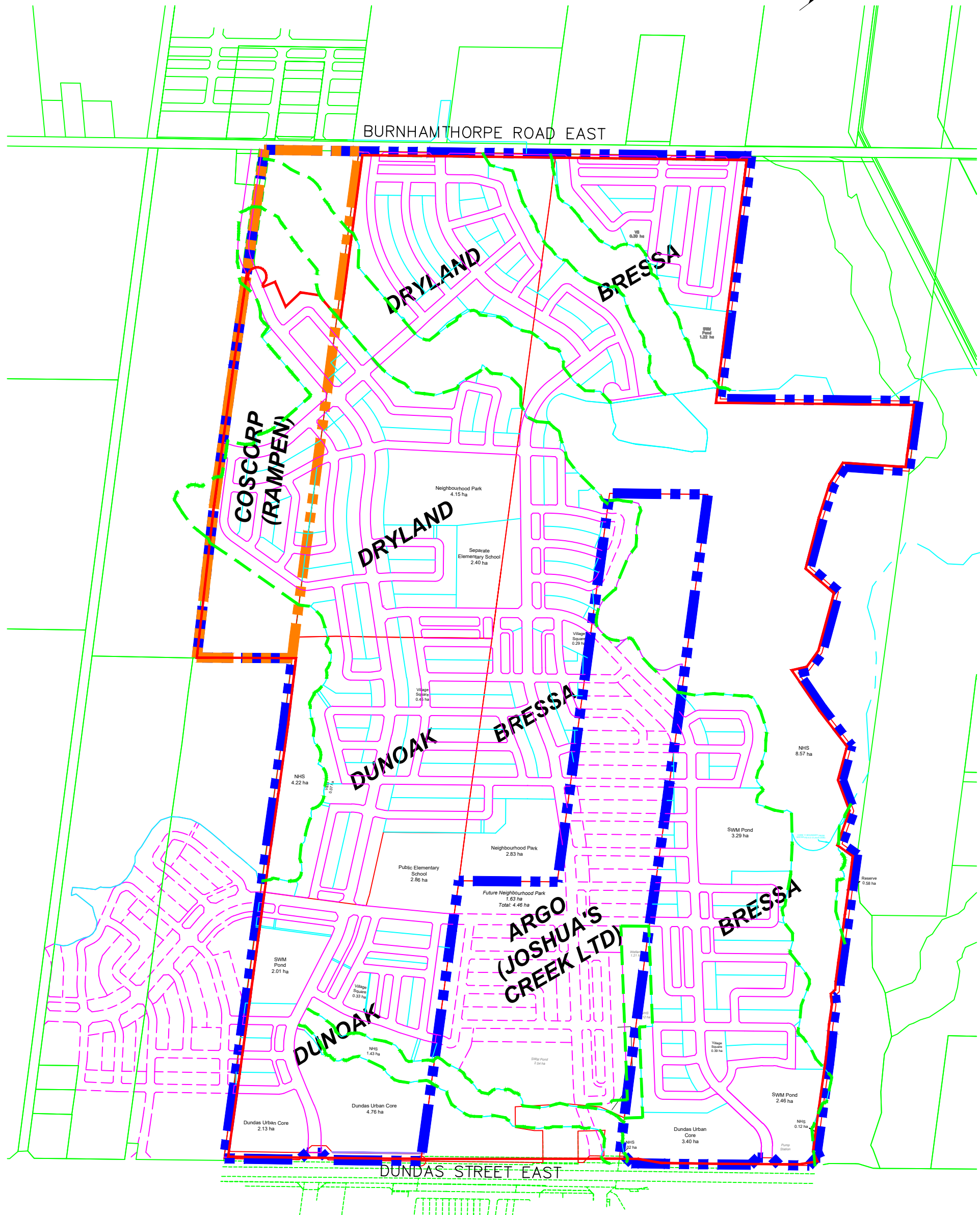
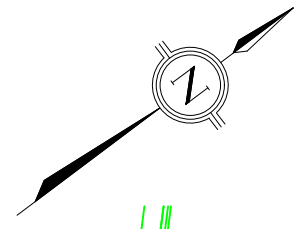


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COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 6.2A
PROPOSED DRAFT PLAN
OF SUBDIVISION

July 2022








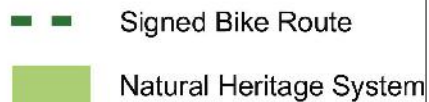

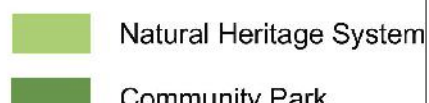

- Legend**
- - - - - Subject Lands
 - - - - - Coscorp (Rampen) Lands
 - FSS Study Area
 - - - - - NHS Limits

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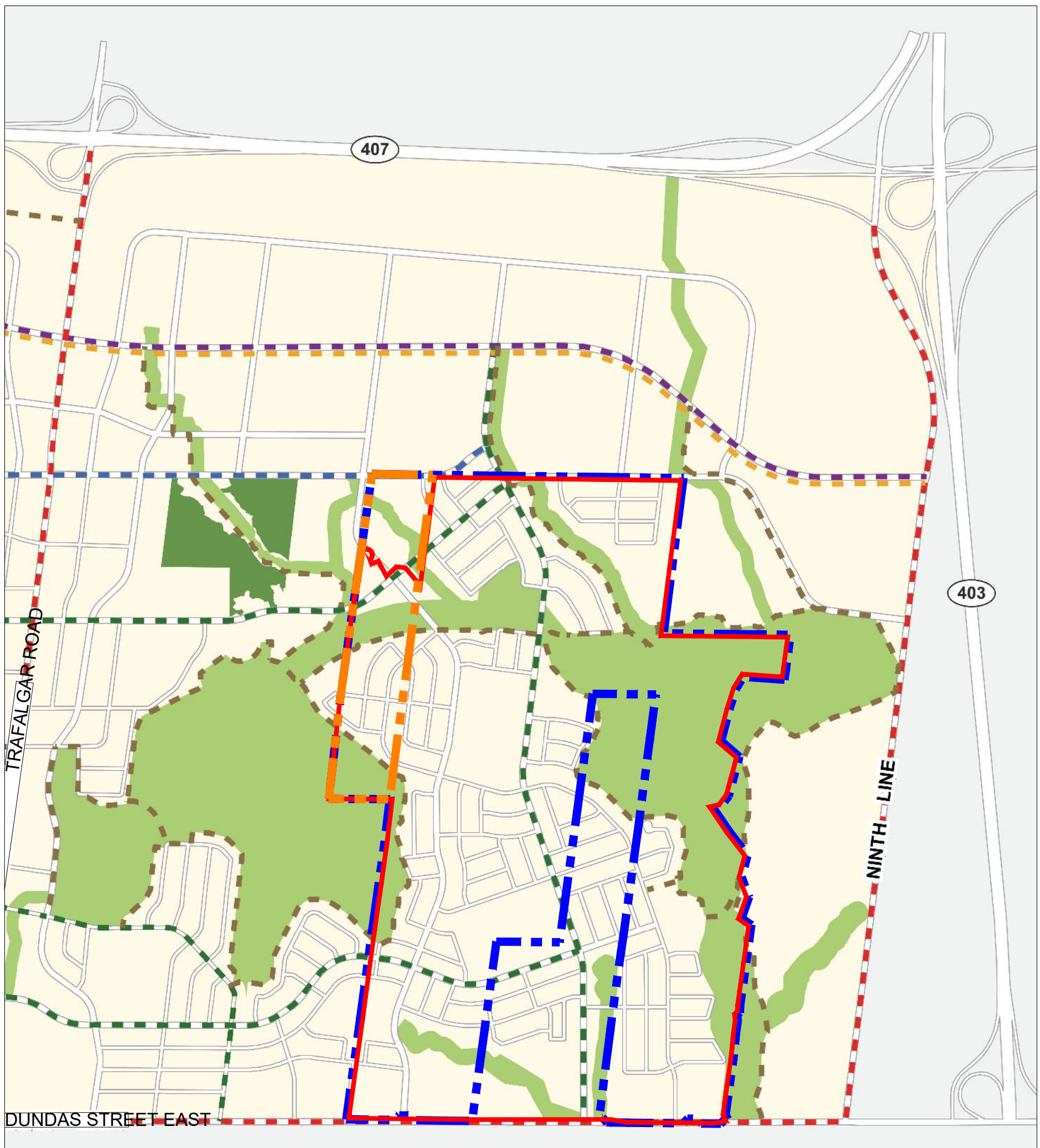
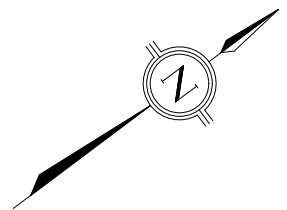
COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 6.2
COMPOSITE DEVELOPMENT
PLAN

JULY 2022

- | | |
|---|---|
|  Bicycle Lane |  Bicycle Facility To Be Determined |
|  Major Trail |  Signed Bike Route |
|  Minor Trail |  Natural Heritage System |
|  Multi-use Trail |  Community Park |
|  Regional Bicycle Facility | |




Note that within the Study Areas, there are no Minor Trail or Multi-Use Trail Sections.



**NORTH OAKVILLE TRAILS PLAN,
FIGURE 1 - NORTH OAKVILLE
TRAILS PLAN EAST, MAY 2013**

SCALE NTS

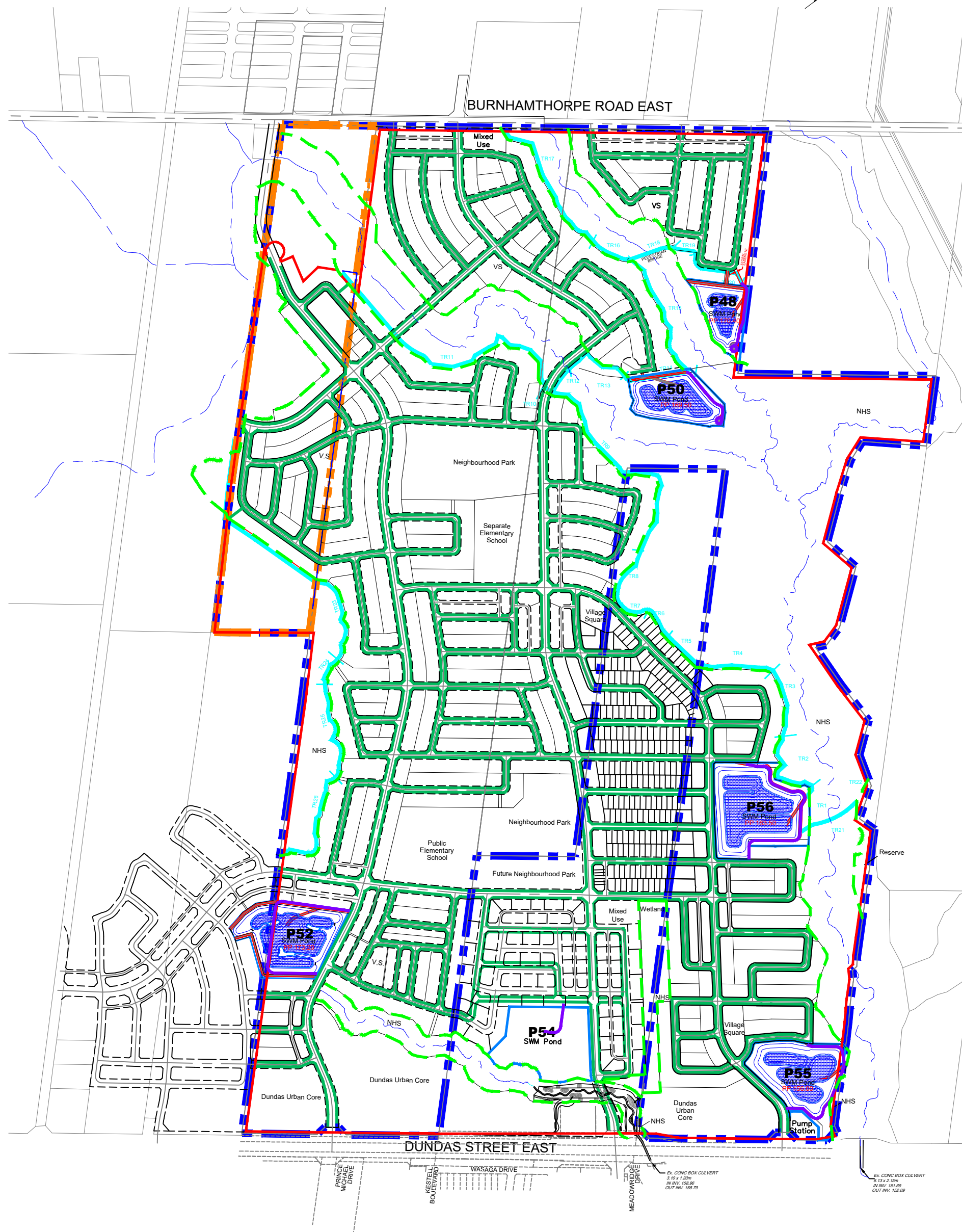
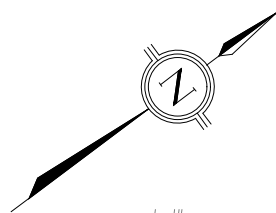
Legend

- | |
|--|
|  Coscorp (Rampen) Lands |
|  Subject Lands |
|  FSS Study Area |

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COSCORP (RAMPEN) ADDENDUM TO THE
JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 6.3



Legend

- - - Coscorp (Rampen) Lands
- - - Subject Lands
- FSS Study Area
- - - NHS Limits
- Sidewalk
- Major Trail
- Pond Access Road

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 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

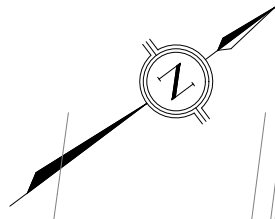
FIGURE 6.4

SIDEWALK/TRAIL LOCATION PLAN
 JULY 2022

Ex. CONC BOX CULVERT
 3.10 x 1.20m
 IN INV. 158.89
 OUT INV. 158.79

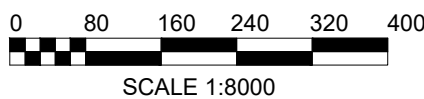
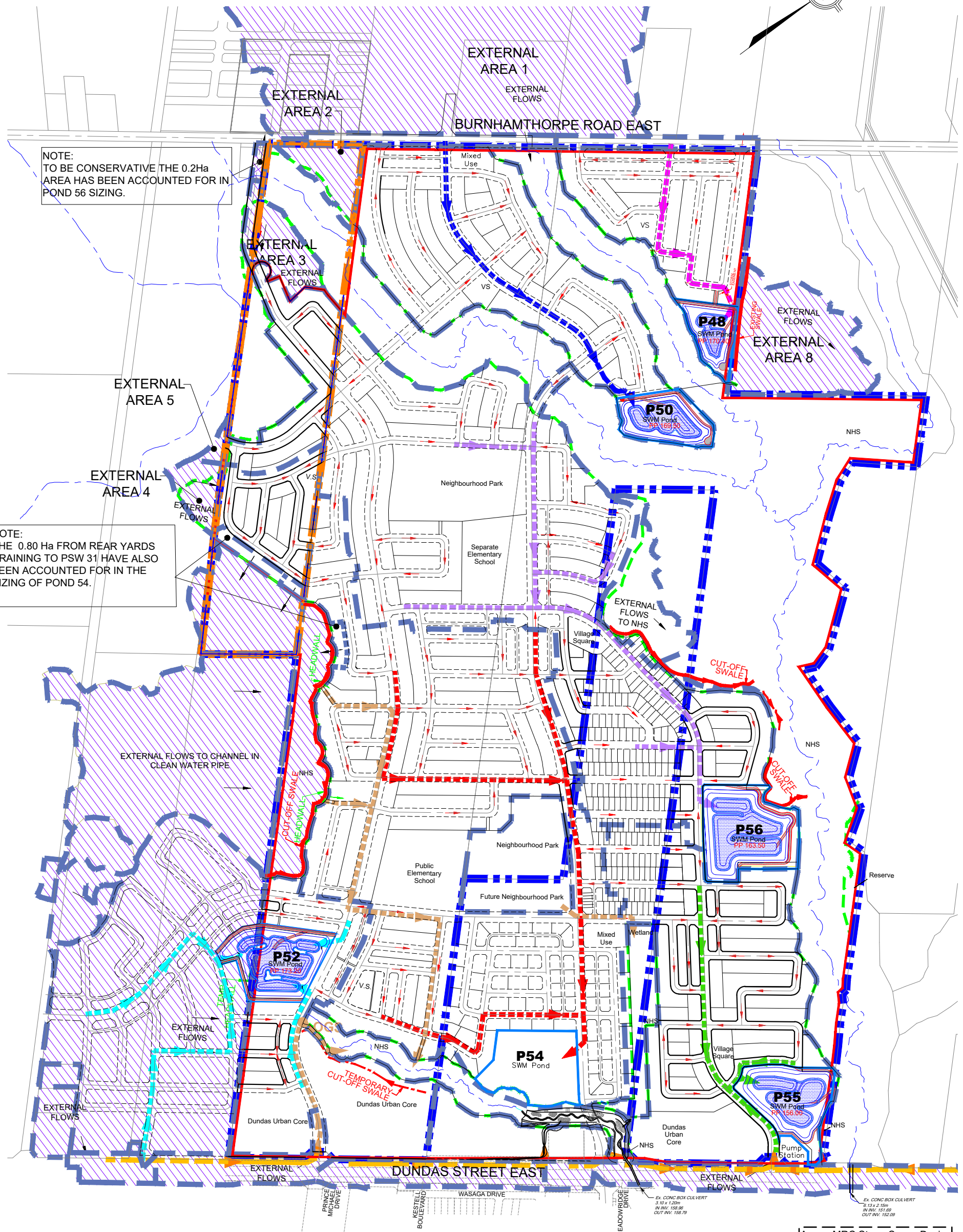
Ex. CONC BOX CULVERT
 3.10 x 2.10m
 IN INV. 151.89
 OUT INV. 152.89

NOTE:
ROAD AND LOT LAYOUTS OUTSIDE COSCORP (RAMPEN) LANDS ARE BASED ON THE LATEST DRAFT PLANS AND M-PLANS RECEIVED FROM THE ADJACENT LAND OWNERS.



NOTE:
TO BE CONSERVATIVE THE 0.2Ha AREA HAS BEEN ACCOUNTED FOR IN POND 56 SIZING.

NOTE:
THE 0.80 Ha FROM REAR YARDS DRAINING TO PSW 31 HAVE ALSO BEEN ACCOUNTED FOR IN THE SIZING OF POND 54.



NOTE:
Cut-off swale on neighbour property subject to permission otherwise swale to be located within subject lands.

NOTE:
Temporary cut-off swale will drain to control manhole until Dundas Urban Core development

As per MRC Storm Sewer Design
Dundas Street - Oak Park Blvd to
Highway 403, Oct, 2010

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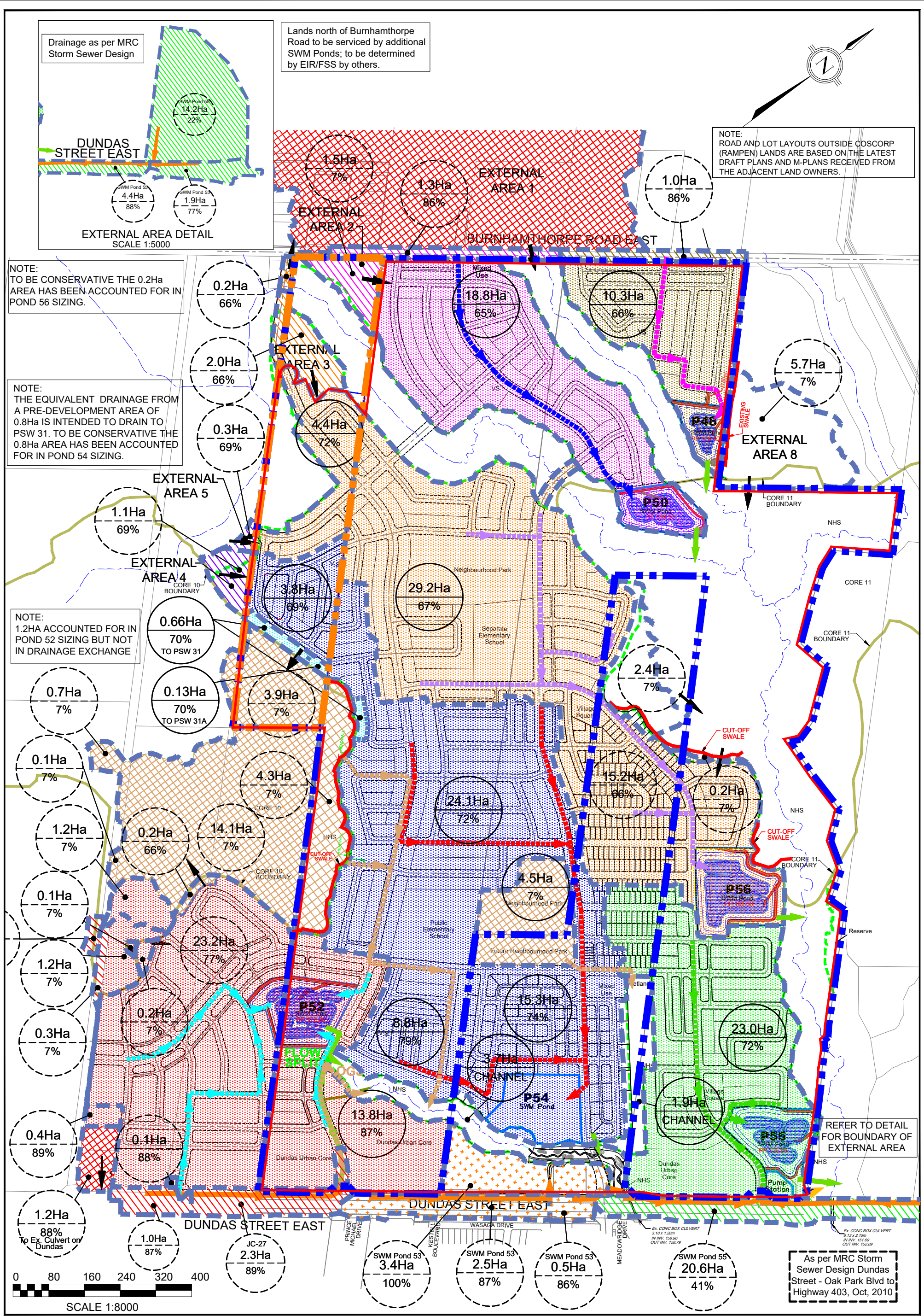
- Coscorp (Rampen) Lands
- Subject Lands
- FSS Study Area
- Storm Trunk to SWM Pond 48
- Storm Trunk to SWM Pond 50
- Storm Trunk to SWM Pond 52
- Storm Trunk to SWM Pond 56
- Storm Trunk to SWM Pond 54
- Storm Trunk to SWM Pond 55
- NHS Limit
- Existing Dundas Storm Sewer
- Cleanwater Pipe to Channel
- System Flow Direction
- Post Development Drainage
- Boundary
- External Drainage Area

COSCORP (RAMPEN) ADDENDUM TO THE
JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 7.1

CONCEPTUAL STORM SERVICING

JULY 2022

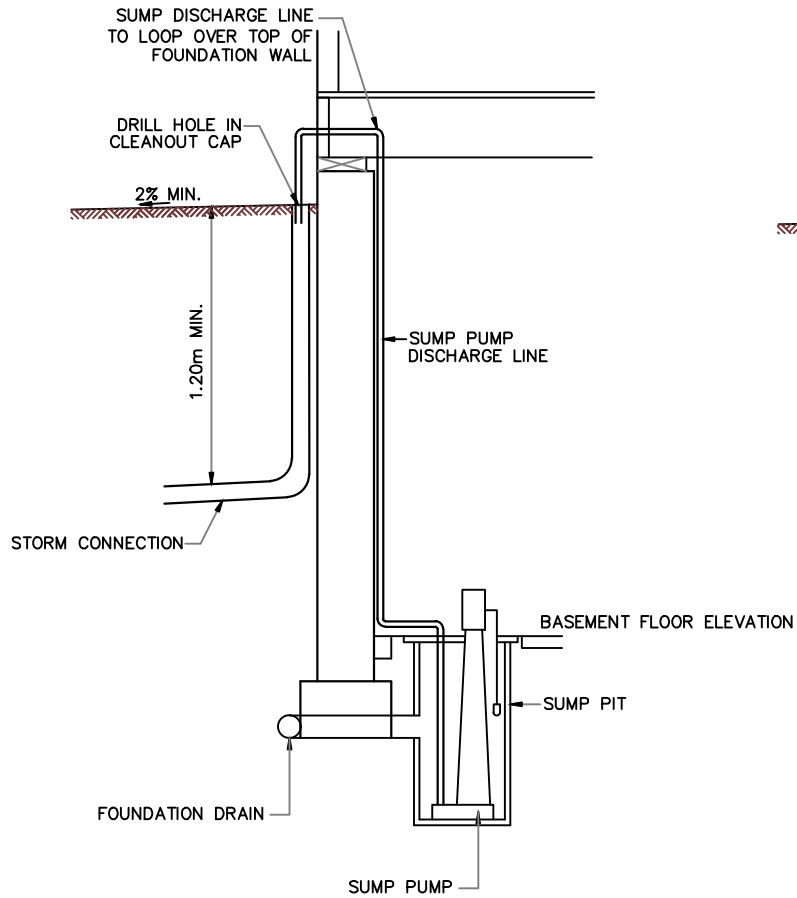


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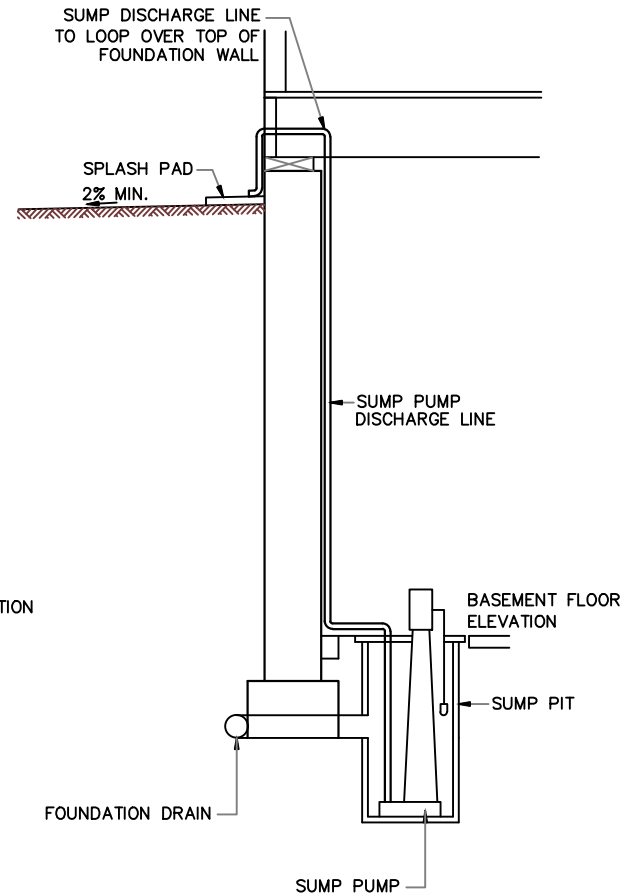
- Legend**
- Coscorp (Rampen) Lands Subject Lands
 - FSS Study Area
 - Post Development Drainage Boundary
 - Proposed Storm Trunk
 - Storm Outfall (By Others)
 - Clean Water Pipe
 - Existing Overland Flow Direction
 - NHS Limits
 - Minor System Flow Direction
 - Total Post-Development Drainage Area to SWM Ponds
 - Drainage to Ex. Culvert
 - Total Post-Development External Drainage Area to SWM Ponds
 - Total Flows Directly to Channel in Clean Water Pipe
 - Drainage to SWM Pond 53
 - Post Development Drainage Area Imperviousness
 - External Drainage Area Imperviousness

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 7.2
Post Development Drainage Areas
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TYPICAL SUMP PUMP DETAIL
(TO STORM SEWER)
N.T.S.



TYPICAL SUMP PUMP DETAIL
(TO GROUND)
N.T.S.

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COSCORP (RAMPEN) ADDENDUM TO THE
JOSHUA'S CREEK TRIBUTARIES EIR/FSS

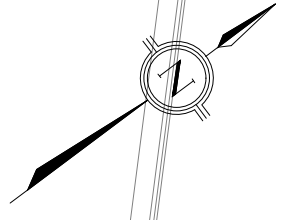
FIGURE 7.4

SUMP PUMP DETAIL

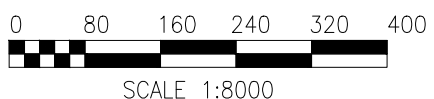
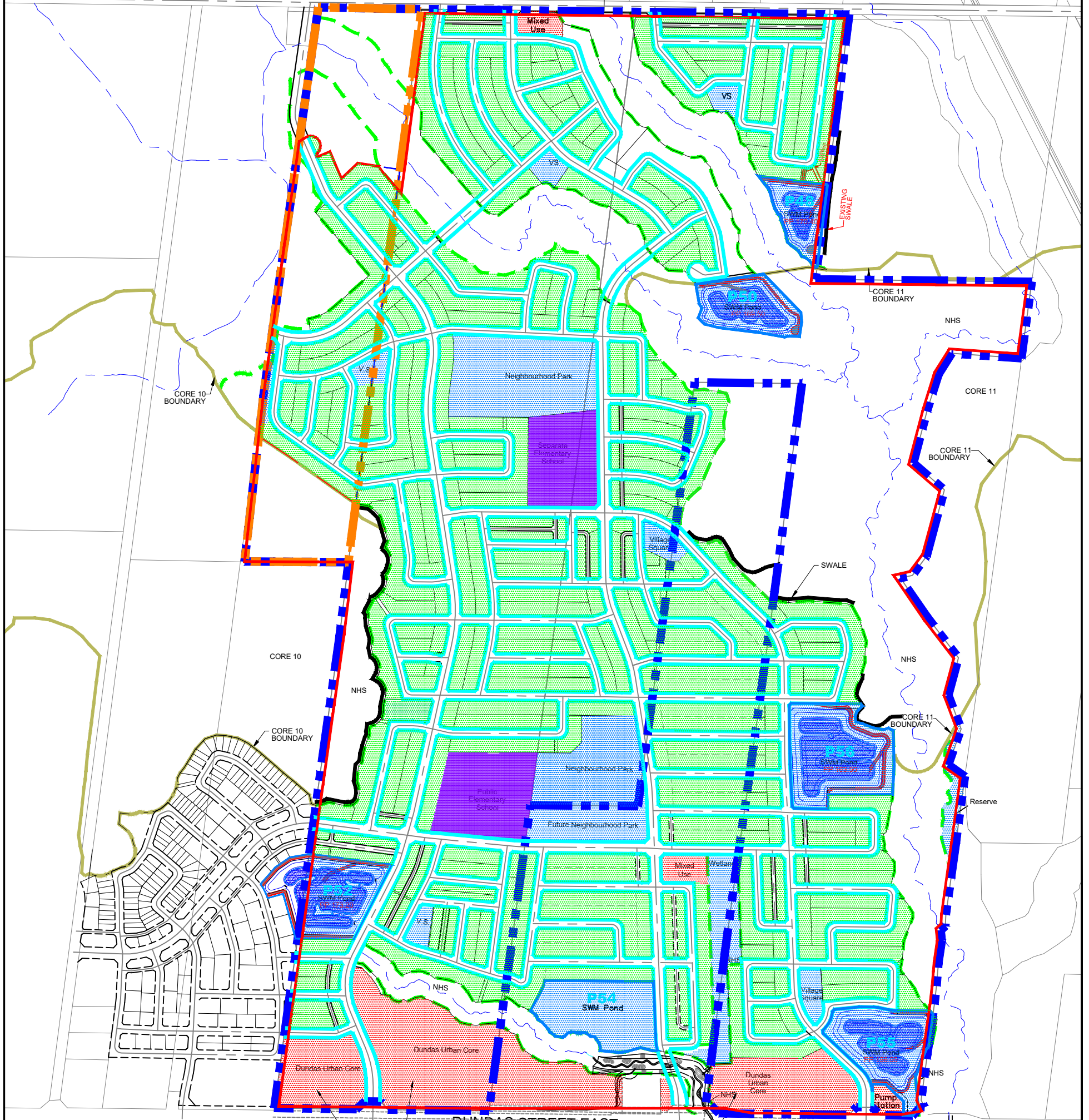
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FSS STUDY AREA (INCLUDING COSCORP RAMPEN LANDS)	
ADDITIONAL TOPSOIL PER LAND USE	AREA (Ha)
Lots	83.4
Boulevards	45.8
Medium/High Density Block	0.0
Schools	5.2
Commercial	13.4
SWM Ponds	13.3
Parks	12.3
SWALE	LENGTH
NHS	1,351

COSCORP RAMPEN LANDS	
ADDITIONAL TOPSOIL PER LAND USE	AREA (Ha)
Lots	5.4
Boulevards	3.0
Medium/High Density Block	0.0
Schools	0.0
Commercial	0.0
SWM Ponds	0.0
Parks	0.2
SWALE	LENGTH
NHS	0



BURNHAMTHORPE ROAD EAST



POTENTIAL LOCATION FOR ADDITIONAL LID MEASURES

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Jennifer Lawrence and Associates Inc.
Savanta Inc.
R. J. Burnside & Associates Ltd.
GEO Morphix Ltd.
Robert Russell Planning Consultants

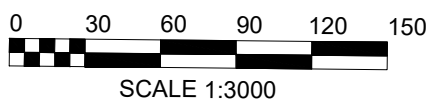
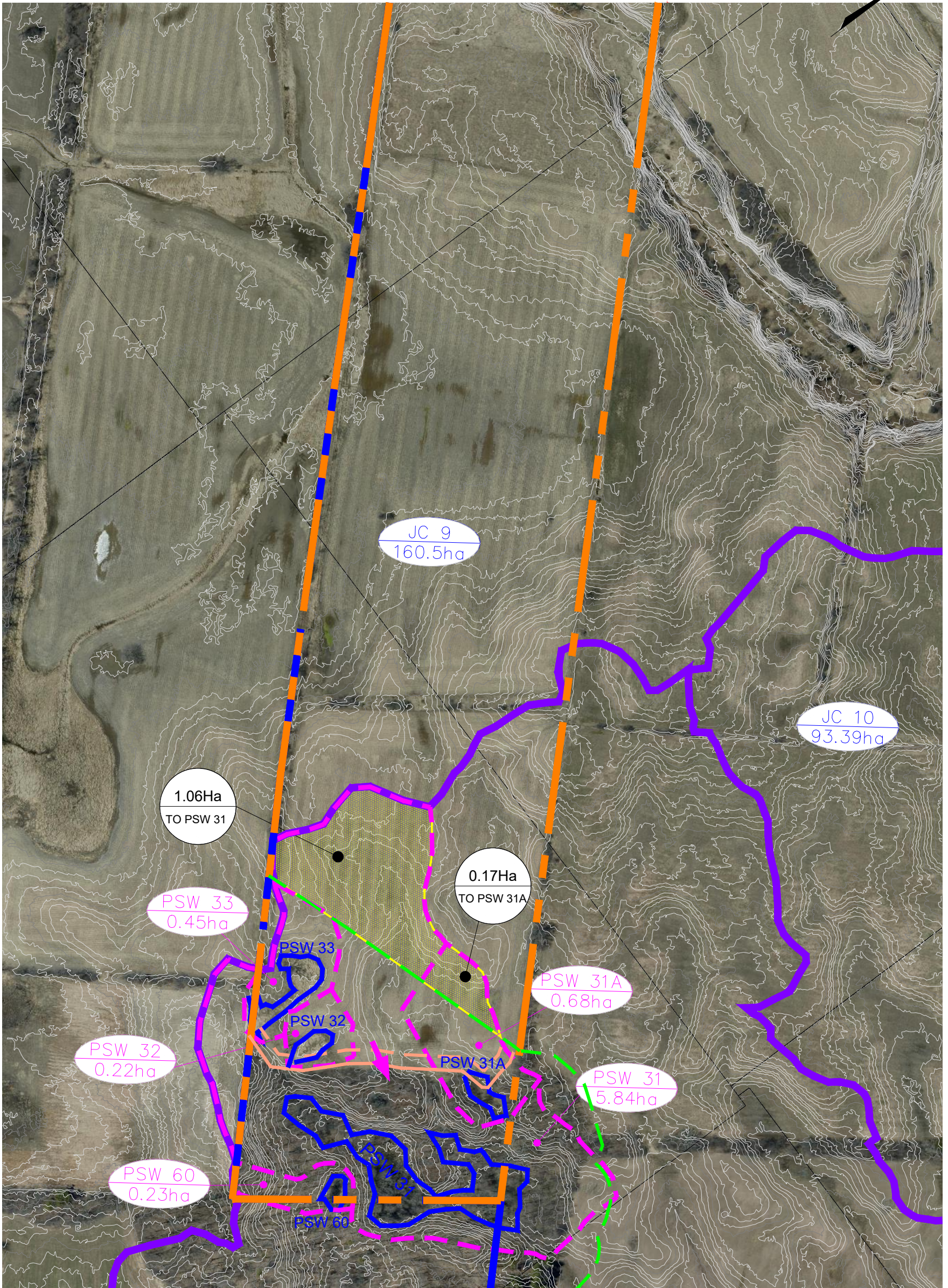
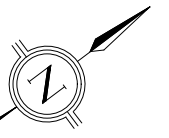
- Legend**
- — — — — Coscorp (Rampen) Lands
 - — — — — Subject Lands
 - — — — — FSS Study Area
 - - - - - NHS Limits
 - — — — — Swale
 - — — — — Additional Depth Topsoil Plus Tree Pits in Boulevard
 - — — — — Additional Depth Topsoil On Lots With Roof Drainage Directed to Pervious Areas
 - — — — — Additional Depth Topsoil in School
 - — — — — Additional Depth Topsoil in Pond/Park
 - — — — — Additional Depth Topsoil in Urban Areas

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 7.6

CONCEPTUAL LOCATIONS OF LID MEASURES

JULY 2022



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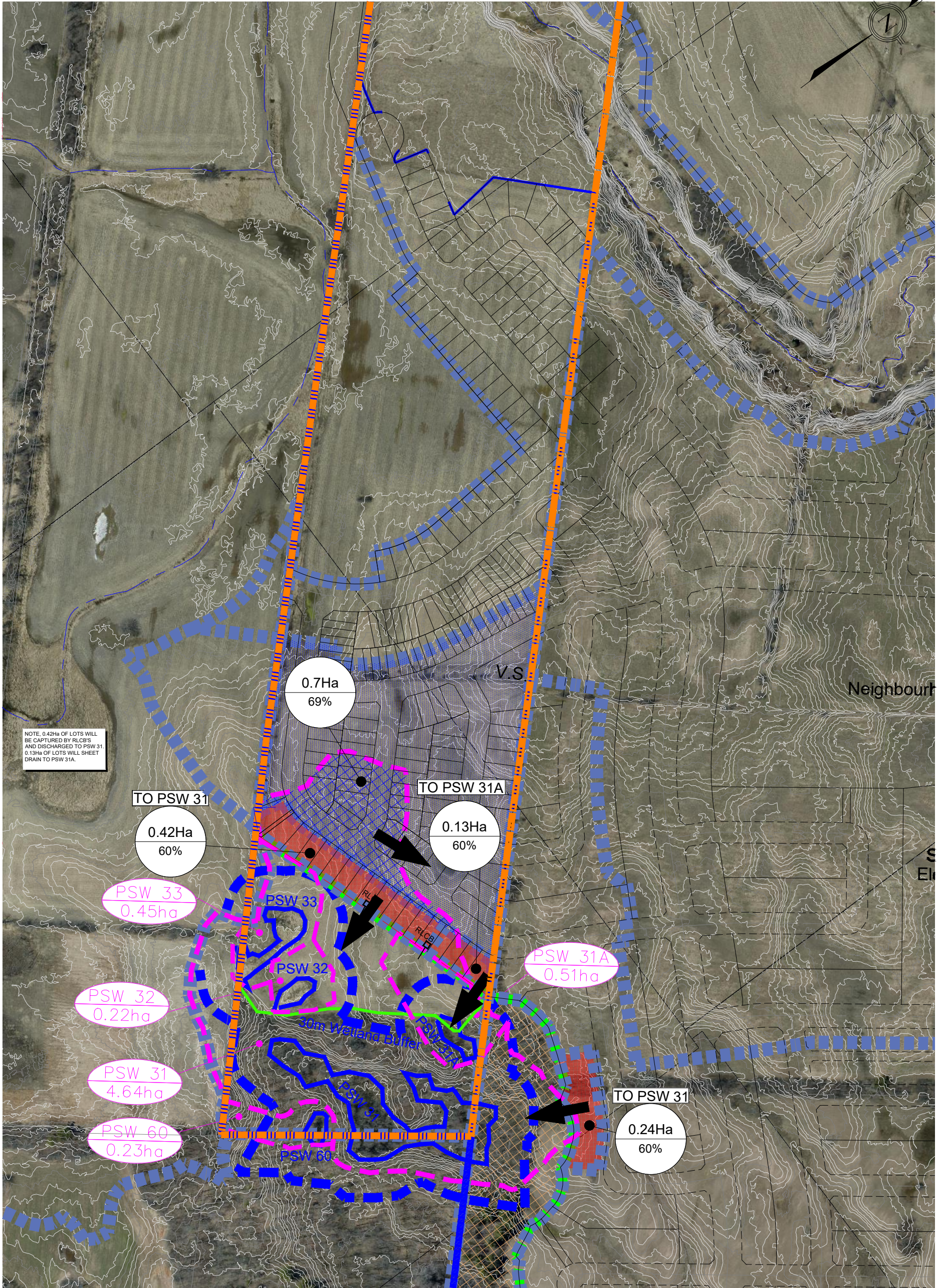
Legend	
	Coscorp (Rampen) Lands
	Subject Lands
	FSS Study Area
	Drainage Direction
	Pre-Development Drainage Boundary
	Pre-Development Drainage Area
	Subcatchment Area (To PSW)
	Pre-Development Drainage Boundary (To PSW)
	PSW Limit
	NHS
	Drip Line
	10m Drip Line Offset
	Developable Area

COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

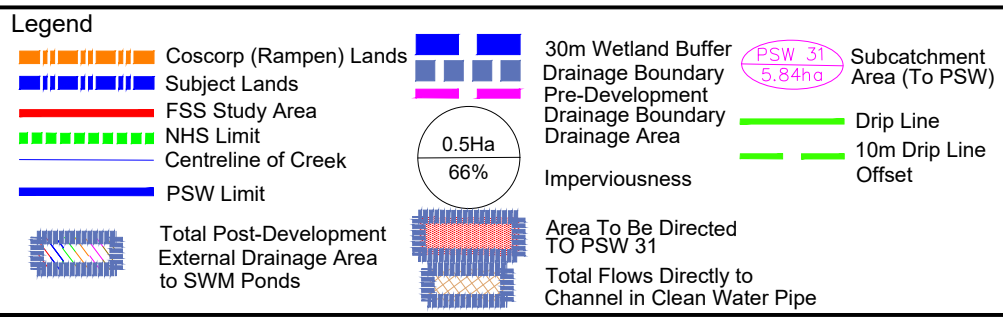
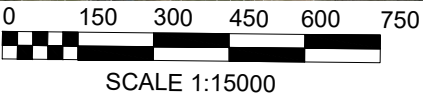
FIGURE 7.8A

**PRE DEVELOPMENT DRAINAGE
 AREAS TO PSW 31**

JULY 2022



NOTE: 0.42ha OF LOTS WILL BE CAPTURED BY RL CBS AND DISCHARGED TO PSW 31. 0.13ha OF LOTS WILL SHEET DRAIN TO PSW 31A.



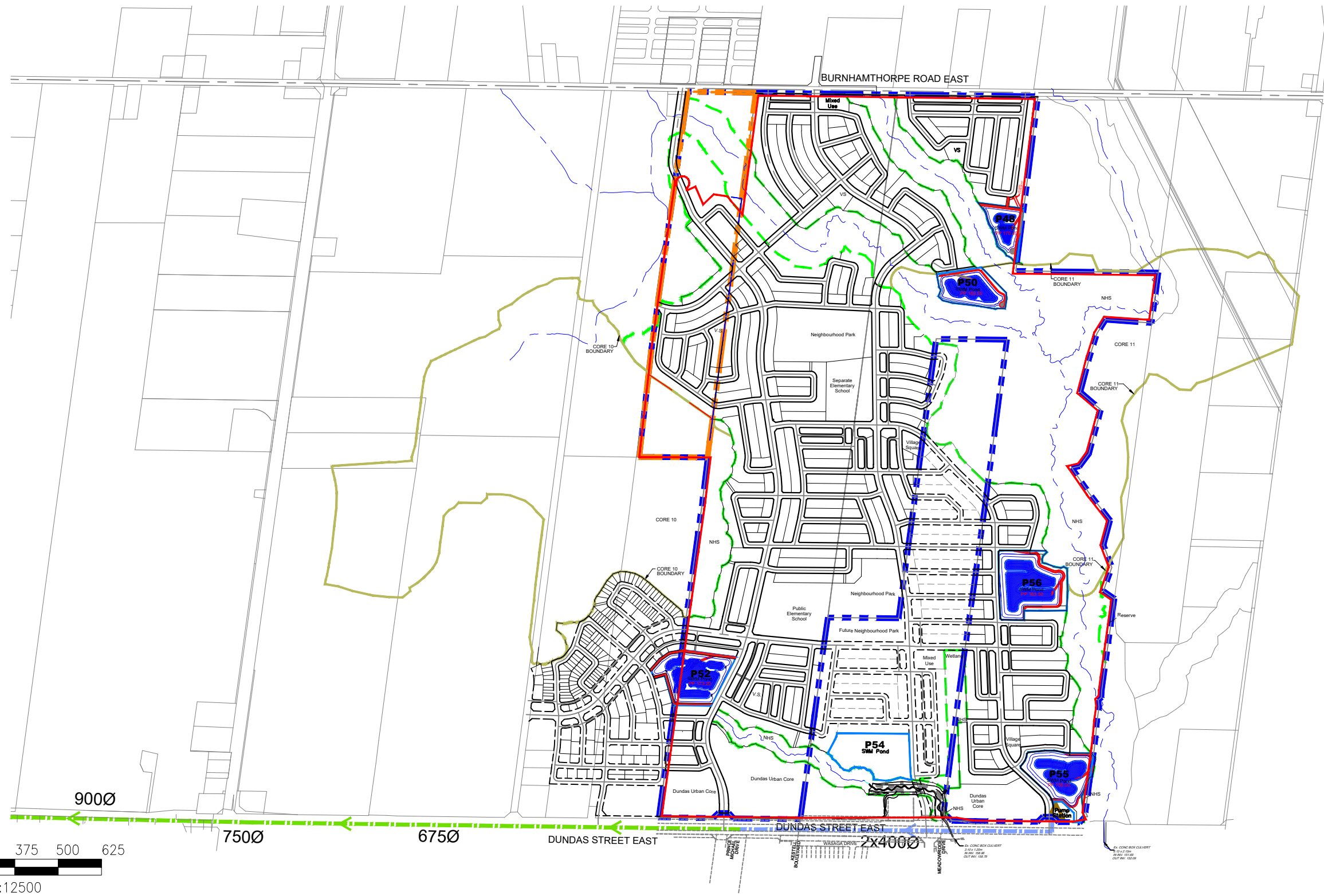
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COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 7.8B

POST DEVELOPMENT DRAINAGE AREA TO PSW 31

JULY 2022



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- Legend**
- — — — — Coscorp (Rampen) Lands
 - — — — — Subject Lands
 - — — — — FSS Study Area
 - - - - - NHS Limits
 - · - · - NHS Linkage
 - · - · - Forcemain (By Others)
 - · - · - Wastewater Sewer (By Others)

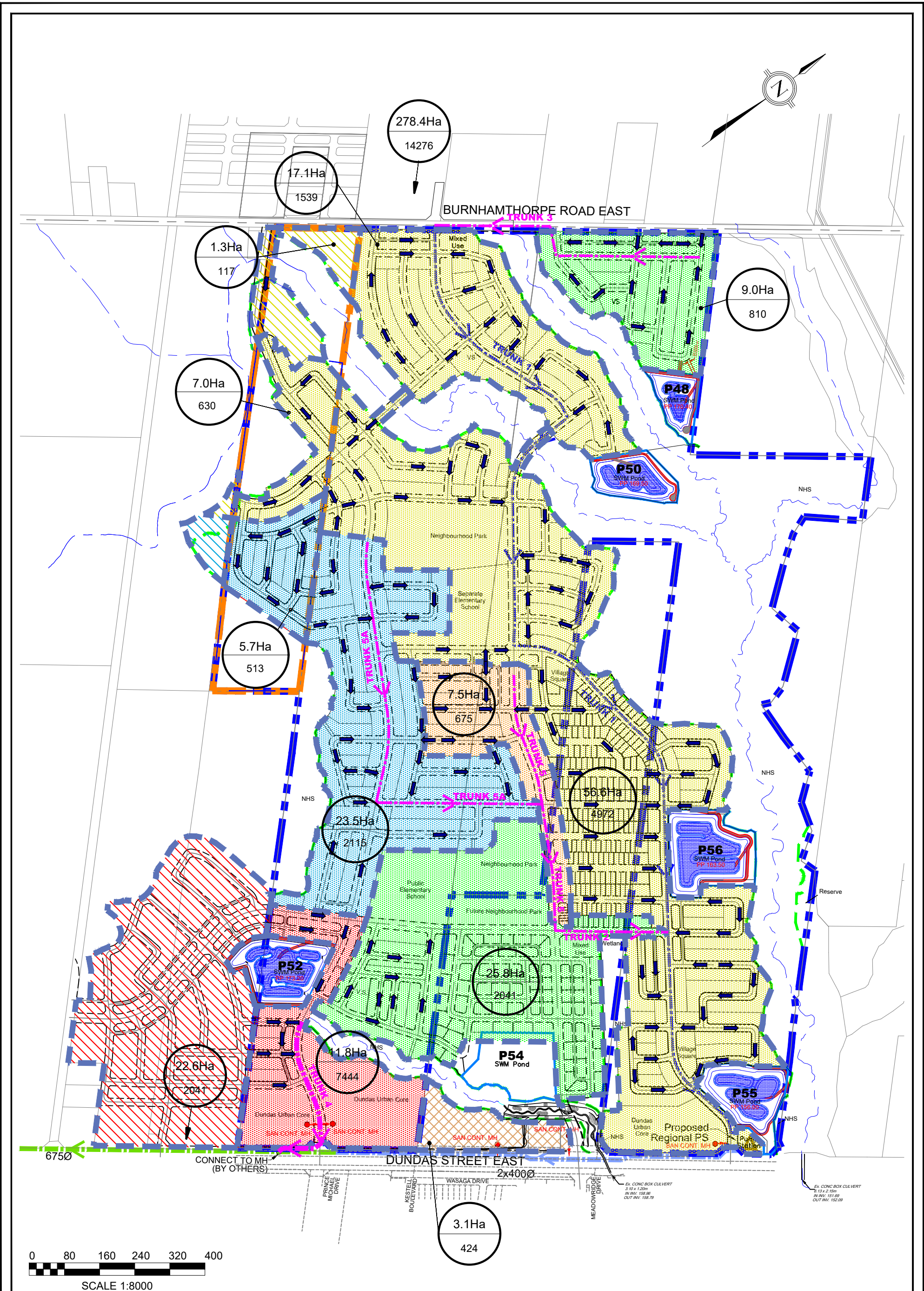
▲ Proposed Wastewater Pumping Station (Approximate Location)

COSCORP (RAMPEN) ADDENDUM TO THE
 JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 9.1

**EXTERNAL
 WASTEWATER PROJECTS**

JULY 2022



Legend

	Coscorp (Rampen) Lands		NHS Limits
	Subject Lands		Drainage Area to Pump Station Along Dundas Street
	Wastewater Tributary Boundary		Wastewater Flow Direction
	Proposed Wastewater Sewer (By Others)		Drainage Area
	Proposed Forcemain (By Others)		Population
	Minor Wastewater Trunk		Proposed Wastewater Pumping Station (Approximate Location)
	Major Wastewater Trunk		
	Drainage Area to Local Trunks		
	External Drainage Area To Local Trunk		
	External Drainage to Trunk on Dundas		

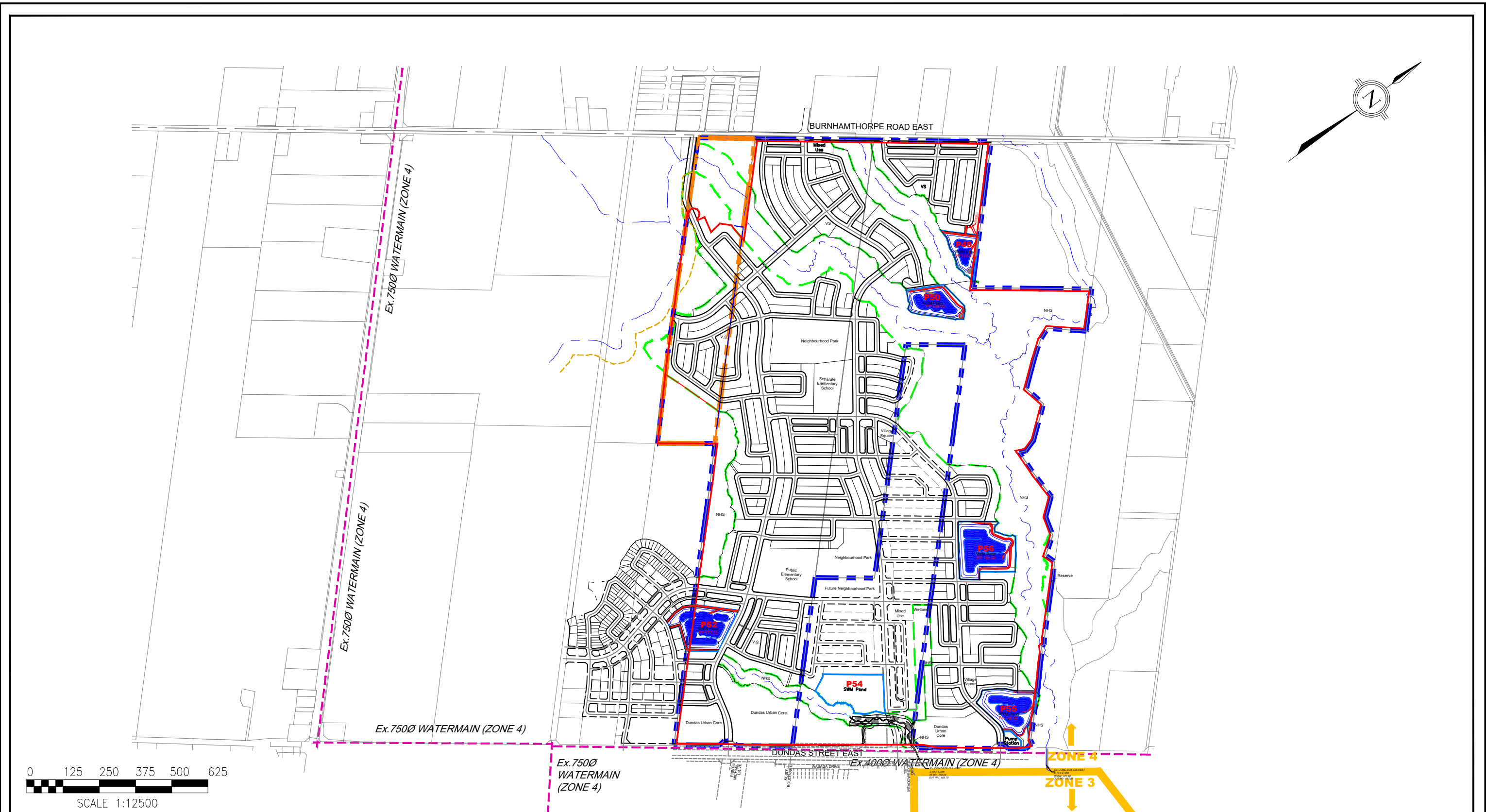
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COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 9.2






CONCEPTUAL WASTEWATER SERVICING

JULY 2022



0 125 250 375 500 625
SCALE 1:12500

Legend

- | | | | |
|---|--------------------------|---|---------------------|
|  | Cosc corp (Rampen) Lands |  | Water Zone Boundary |
|  | Subject Lands |  | Existing Watermain |
|  | FSS Study Area | | |
|  | NHS Limits | | |

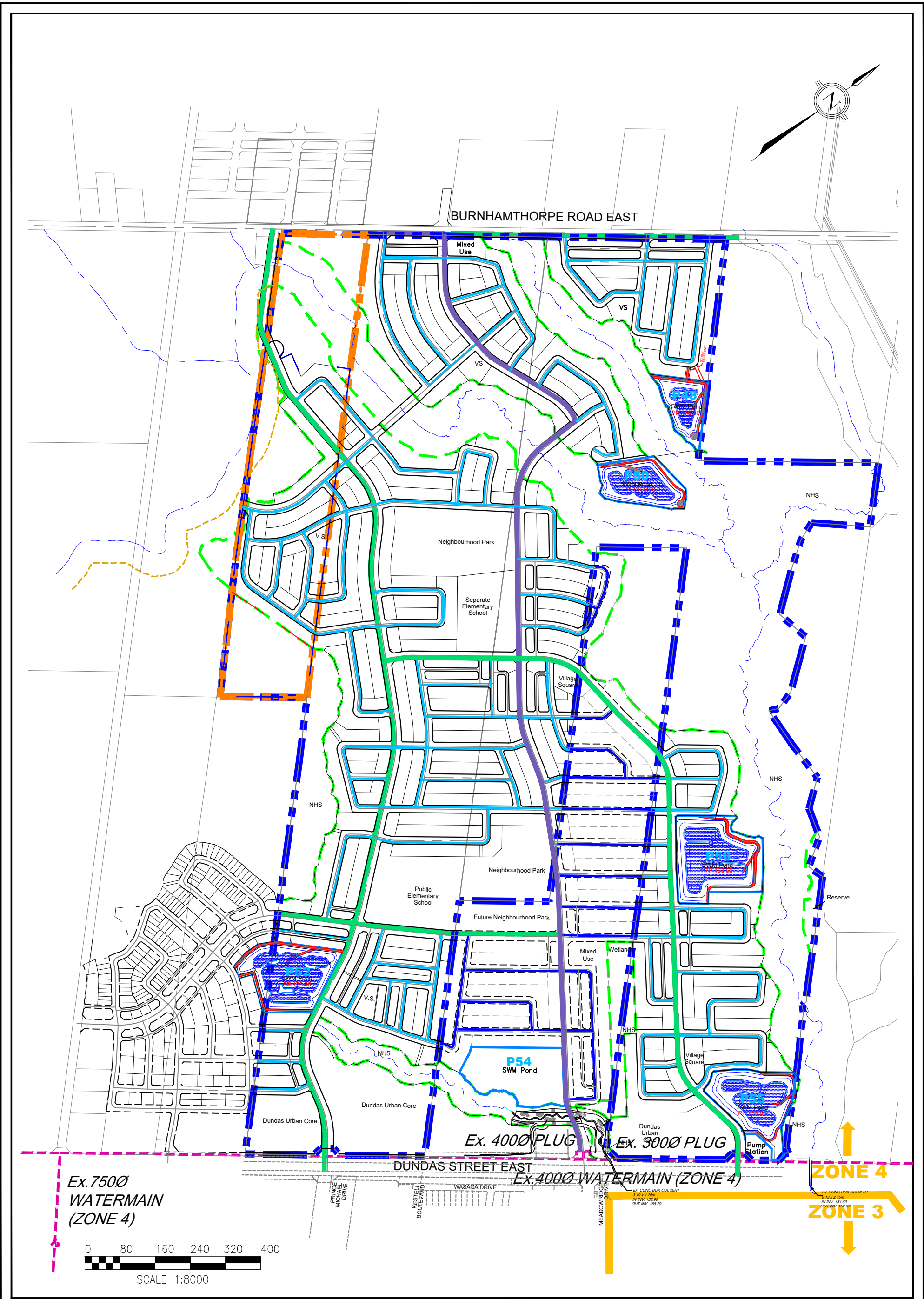
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COSCOP (RAMPEN) ADDENDUM TO THE
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FIGURE 9.3

EXISTING WATERMAINS

JULY 2022



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- Legend**
- Orange dashed line: Coscorp (Rampen) Lands
 - Blue dashed line: Subject Lands
 - Yellow line: Water Zone Boundary
 - Light blue line: Local Watermain
 - Dark blue line: Local Watermain (By Others)
 - Green line: 3000 Watermain
 - Purple line: 4000 Watermain
 - Dashed green line: NHS Limits
 - Dashed pink line: Existing Watermain

COSCORP (RAMPEN) ADDENDUM TO THE JOSHUA'S CREEK TRIBUTARIES EIR/FSS

FIGURE 9.4
CONCEPTUAL WATERMAIN SERVICING
 JULY 2022