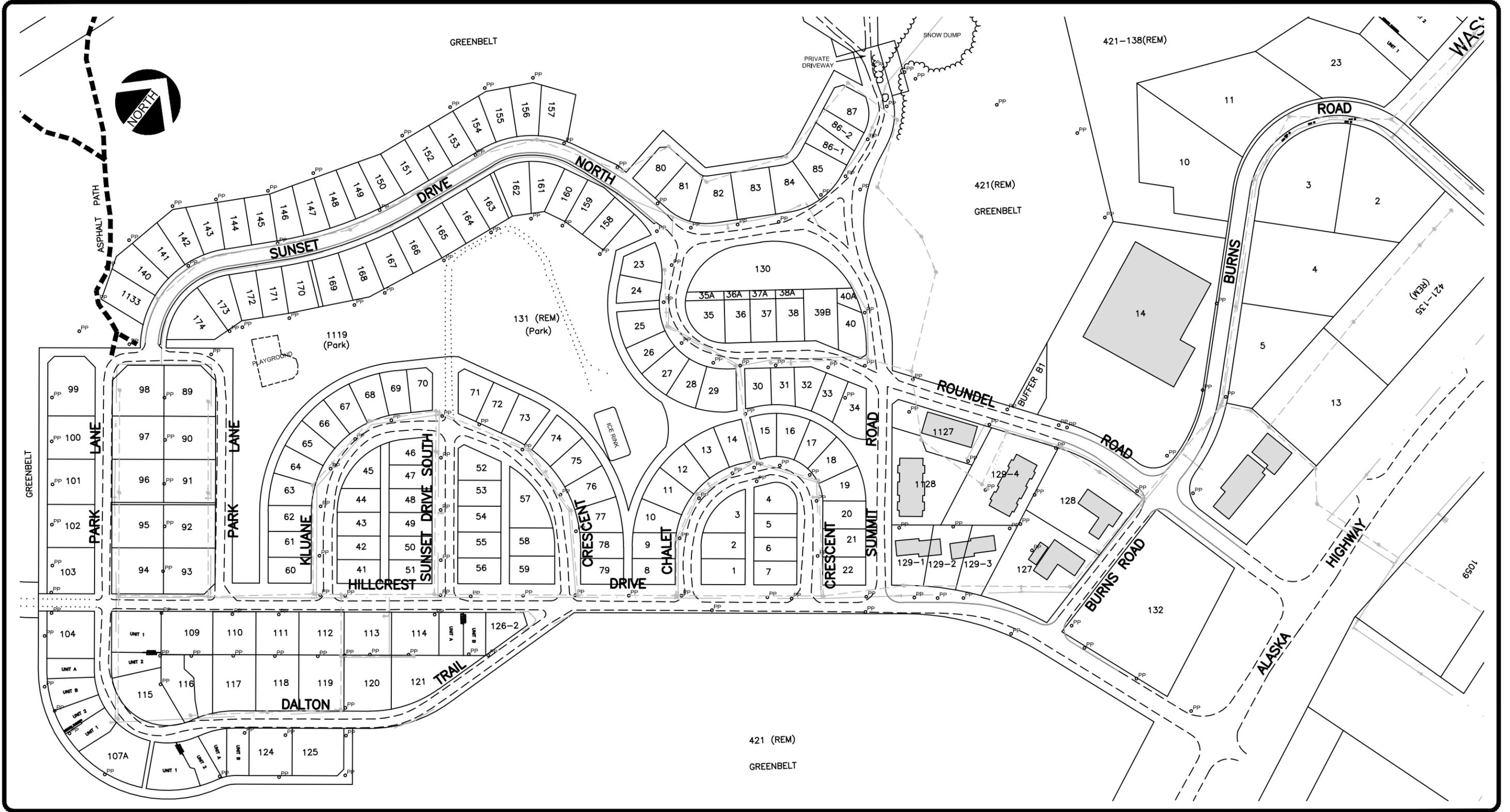


2.1 - ADJACENT LANDS



EDGE OF PAVEMENT  
 W CURB  
 NO CURB  
 W GRAVEL SHOULDERS  
 POWER POLES ○<sup>PP</sup>

| No.                | DATE | DESCRIPTION | BY | APP |
|--------------------|------|-------------|----|-----|
| REVISIONS & ISSUES |      |             |    |     |

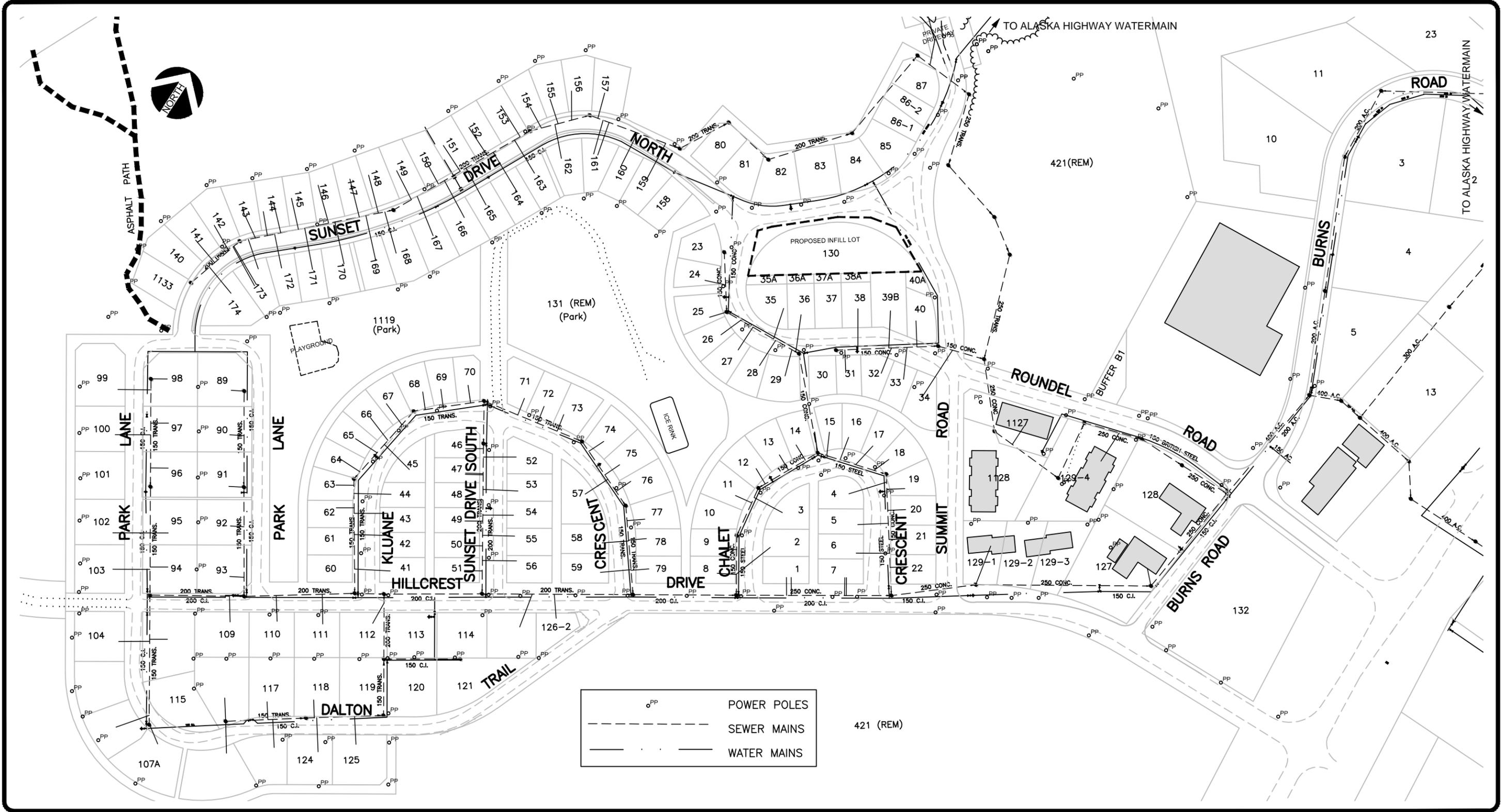
SCALE  
 HOR. 1 : 2 500  
 VER.  
 DESIGN  
 DRAWN B. BOORSE  
 CHECKED G. QUINSEY



HILLCREST RECONSTRUCTION  
 CITY DWG. No. CONSULTANT DWG. No.

2.2 - EXISTING ROAD NETWORK

SHEET  
 OF  
 REV.



NOTES:  
 APPROXIMATE SEWER SERVICE TIE-IN LOCATIONS AND ALIGNMENTS HAVE BEEN DEVELOPED USING SEWER VIDEO DATA  
 OVERHEAD POWER AND TELEPHONE NOT SHOWN

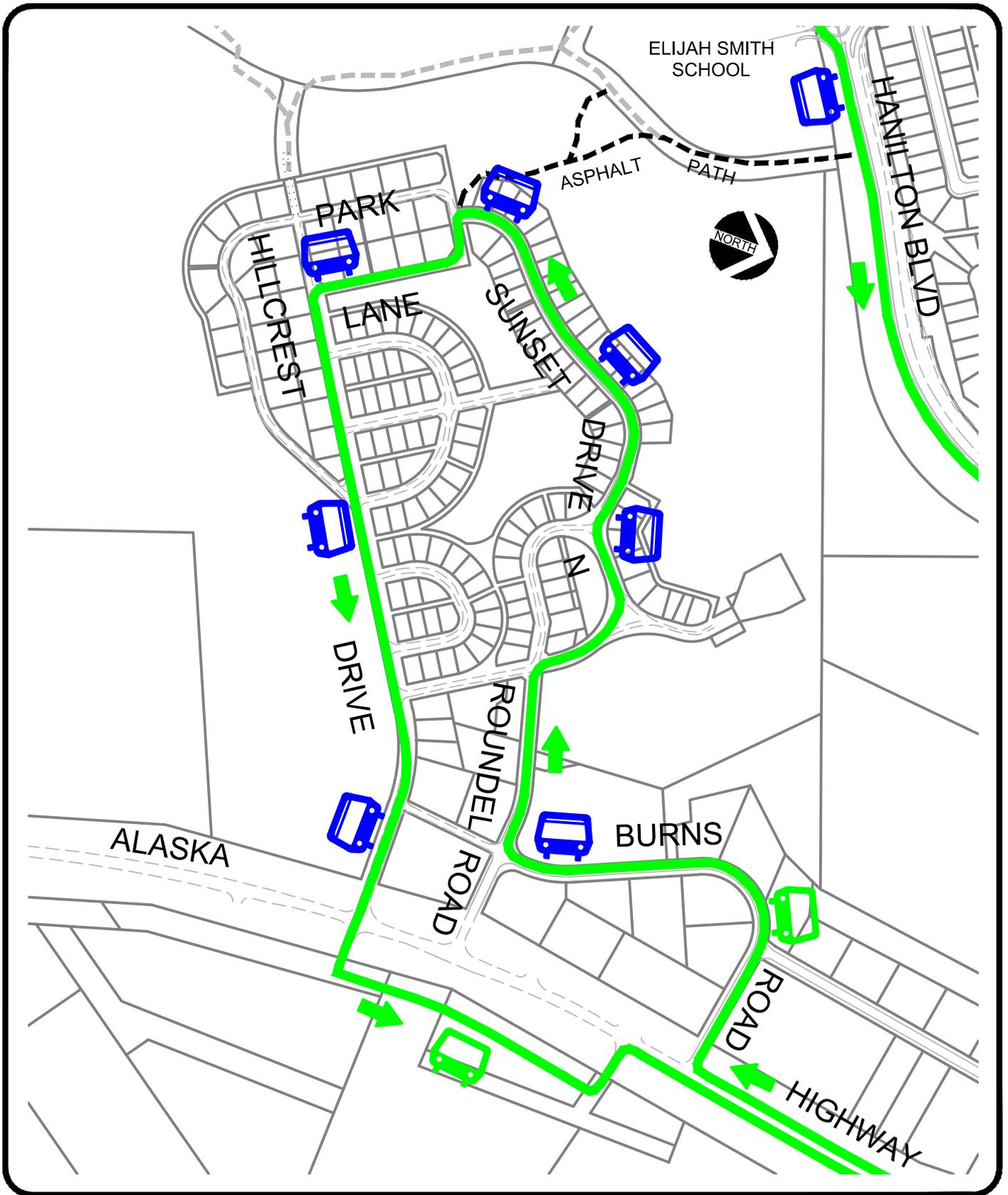
SCALE  
 HOR. 1 : 2 500  
 VER.  
 DESIGN  
 DRAWN B. BOORSE  
 CHECKED G. QUINSEY



HILLCREST RECONSTRUCTION  
 CITY DWG. No. CONSULTANT DWG. No.

2.3 - EXISTING UTILITIES

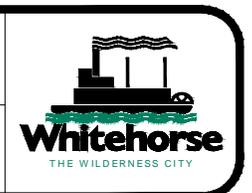
SHEET  
 OF  
 REV.

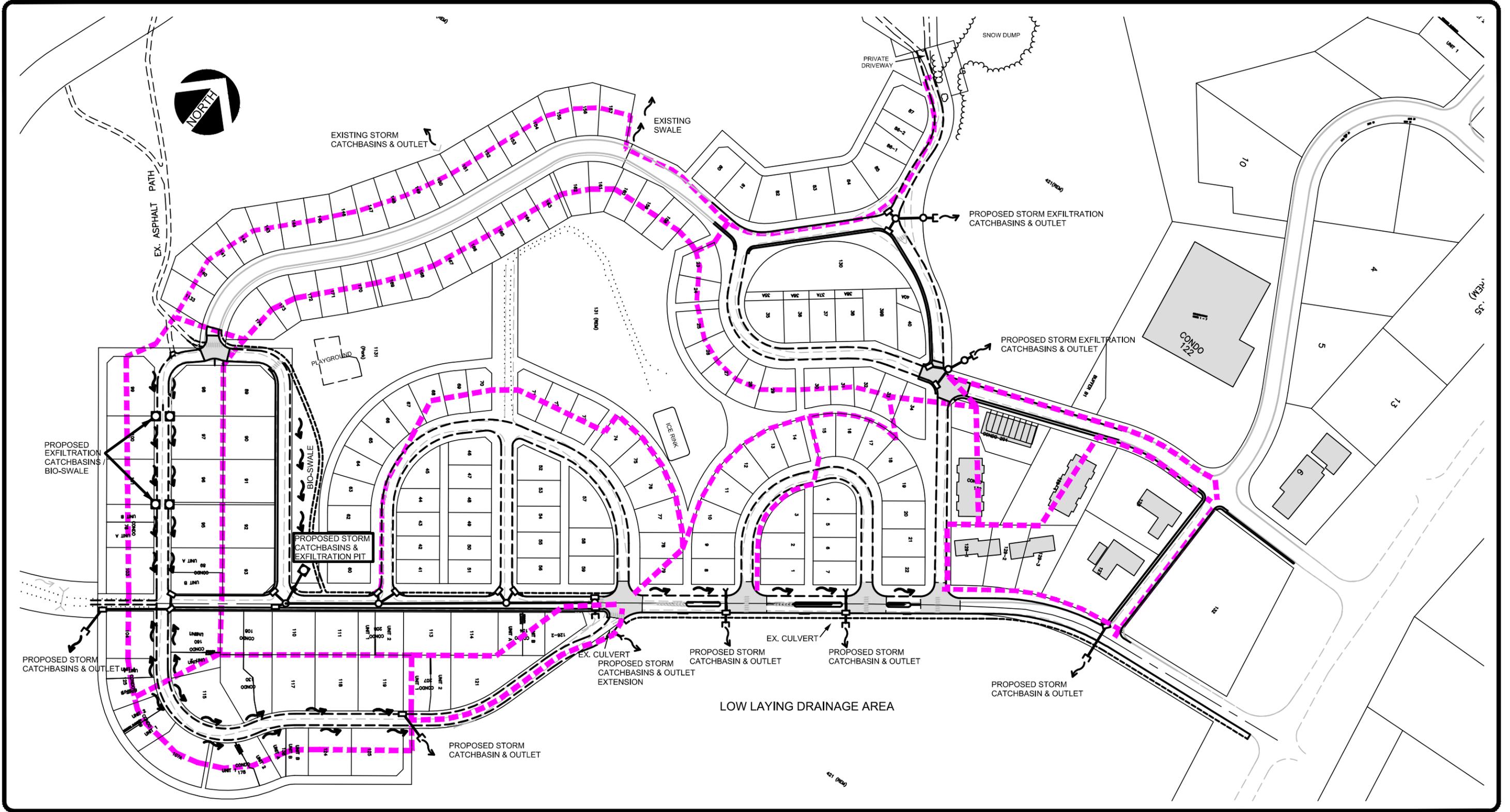


|                |              |
|----------------|--------------|
| SCALE: NTS     | DWN. BY: BCB |
| DATE: DEC 2012 | CKD:         |
| REV.           |              |

CITY OF WHITEHORSE

2.4 - BUS ROUTES and STOPS





|                            |           |
|----------------------------|-----------|
| EDGE OF PAVEMENT<br>w CURB | ———       |
| w/o CURB                   | - - - - - |

| NO.                | DATE | DESCRIPTION | BY | APP. |
|--------------------|------|-------------|----|------|
| REVISIONS & ISSUES |      |             |    |      |

|         |                |
|---------|----------------|
| SCALE   | HOR. 1 : 2 500 |
| VER.    |                |
| DESIGN  |                |
| DRAWN   | B. BOORSE      |
| CHECKED | G. QUINSEY     |

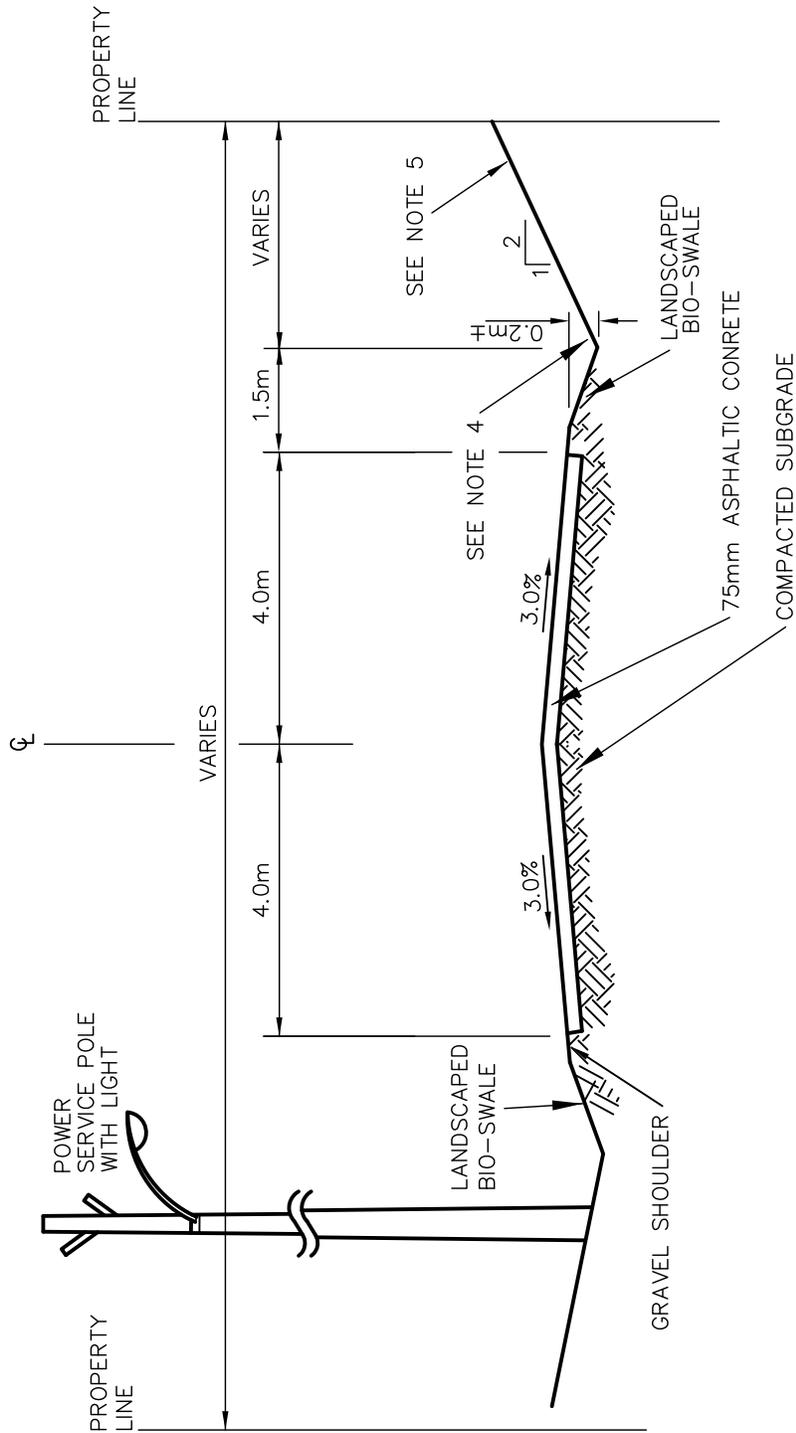


**HILLCREST RECONSTRUCTION**

CITY DWG. No. \_\_\_\_\_ CONSULTANT DWG. No. \_\_\_\_\_

**4.1 - OVERALL DRAINAGE BOUNDARIES**

|       |  |
|-------|--|
| SHEET |  |
| OF    |  |
| REV.  |  |



**NOTES:**

1. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING. GRAVEL TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
2. SUBGRADE COMPACTED TO 98% STANDARD PROCTOR.
3. DITCH DEPTH = 0.20m MIN.
4. ROAD SIDE SLOPES FOR DEPTHS OF EMBANKMENT, DESIGNED BY A GEOTECHNICAL ENGINEER. RECOMMENDED SIDE SLOPES:

| DEPTH OF FILL | SIDE SLOPE (MIN) |
|---------------|------------------|
| 0 - 2         | 3 : 1            |
| 2.0 - 3.0     | 2 : 1            |

5. BACK SLOPES Min. 2:1
6. MINIMUM CUL DE SAC RADIUS 14.0m
7. RTAC CLASSIFICATION RLU-50.
8. EASEMENTS REQUIRED FOR POWER POLE ANCHORS.
9. PARKING ONE SIDE ONLY

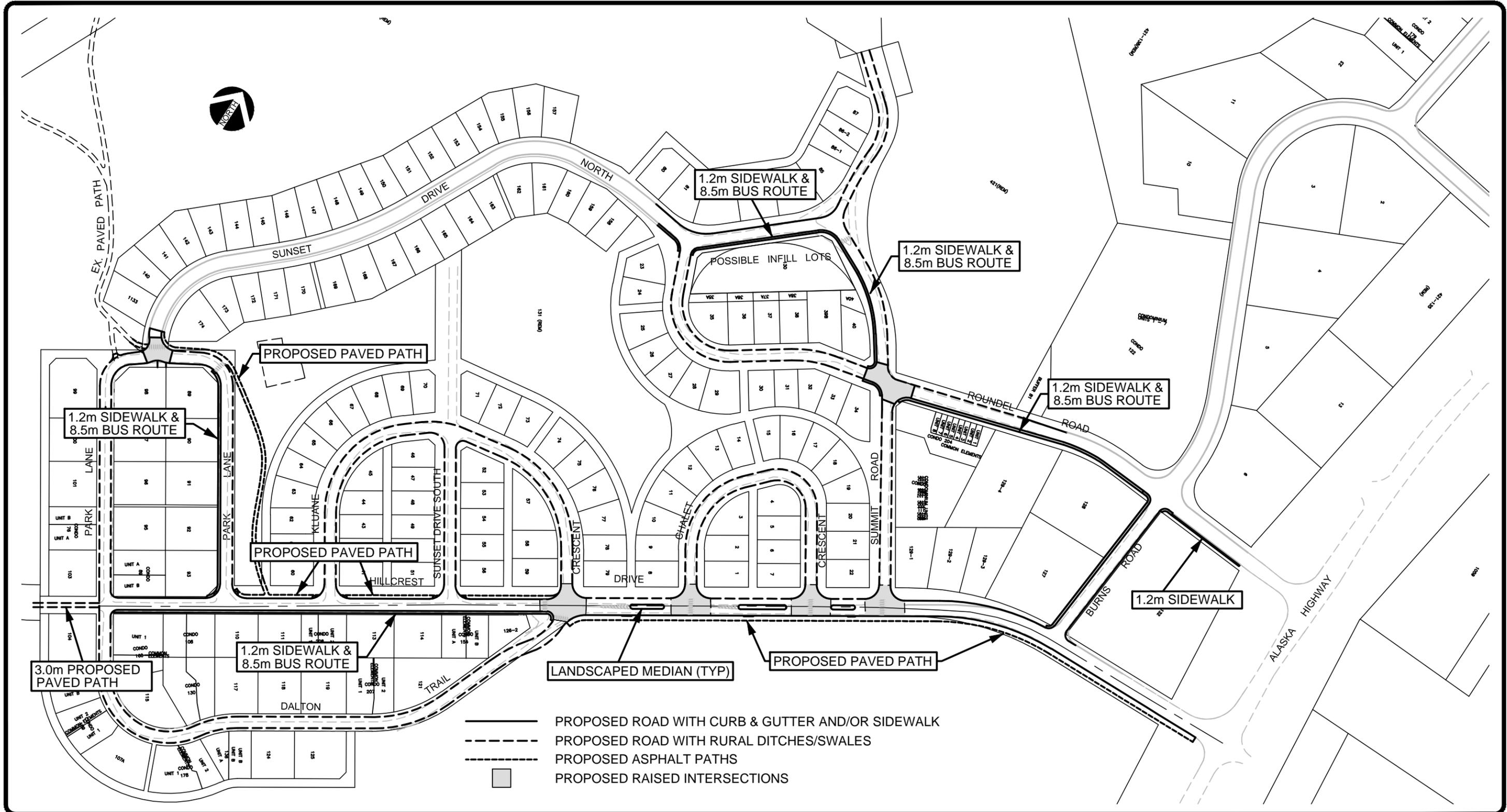


# 8.0m LOCAL STREET WITH BIO-SWALES

DATE: MAY 2016

STD DWG

Fig 4.2



|                            |           |
|----------------------------|-----------|
| EDGE OF PAVEMENT<br>w CURB | —————     |
| w/o CURB                   | - - - - - |

| No.                | DATE | DESCRIPTION | BY | APP |
|--------------------|------|-------------|----|-----|
| REVISIONS & ISSUES |      |             |    |     |

|           |            |
|-----------|------------|
| SCALE     | 1 : 2 500  |
| HOR. VER. |            |
| DESIGN    |            |
| DRAWN     | B. BOORSE  |
| CHECKED   | G. QUINSEY |



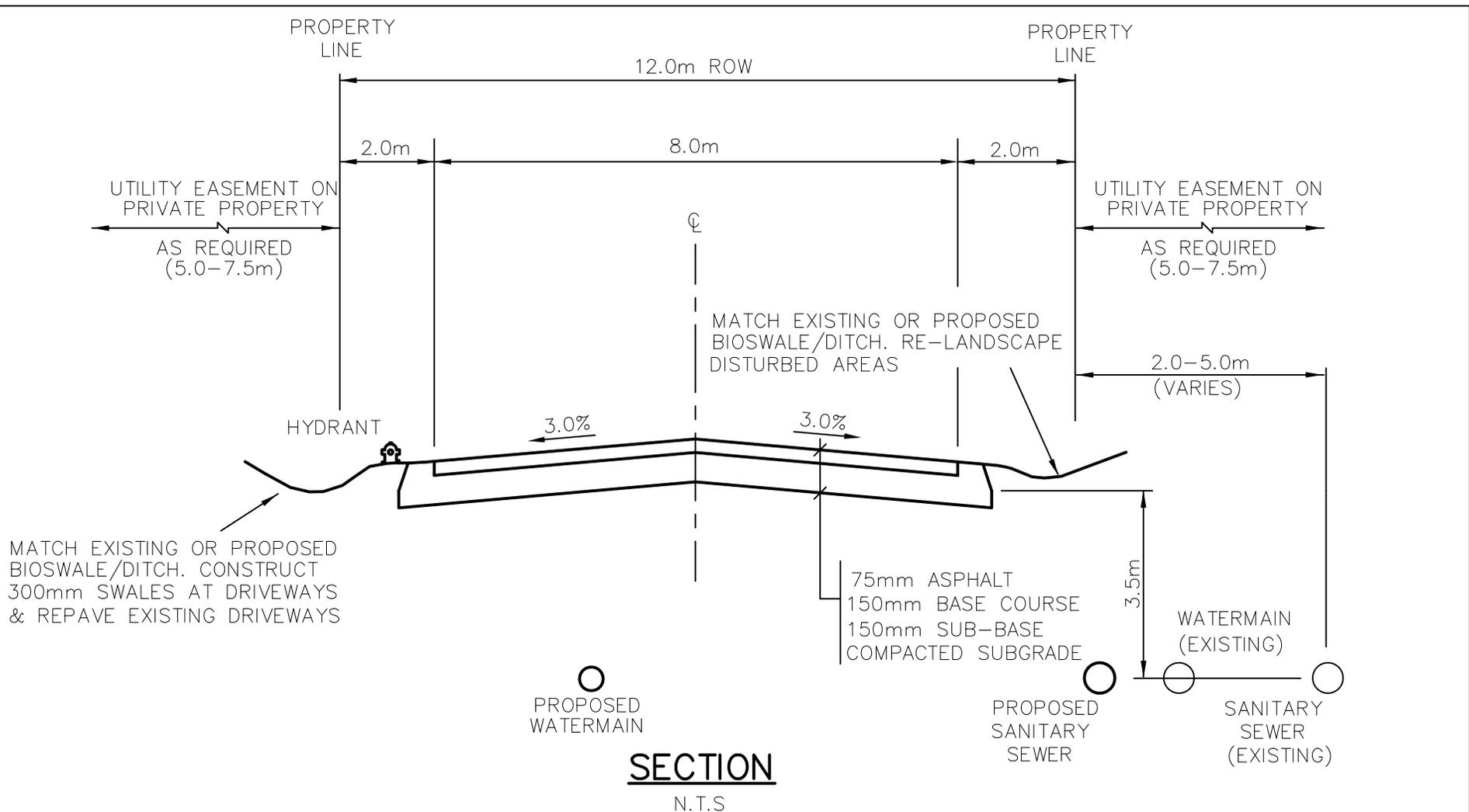
**HILLCREST RECONSTRUCTION**

CITY DWG. No. \_\_\_\_\_ CONSULTANT DWG. No. \_\_\_\_\_

**4.3 - PROPOSED ROAD and ACTIVE  
TRANSPORTATION NETWORK**

|       |    |
|-------|----|
| SHEET | OF |
| REV.  |    |

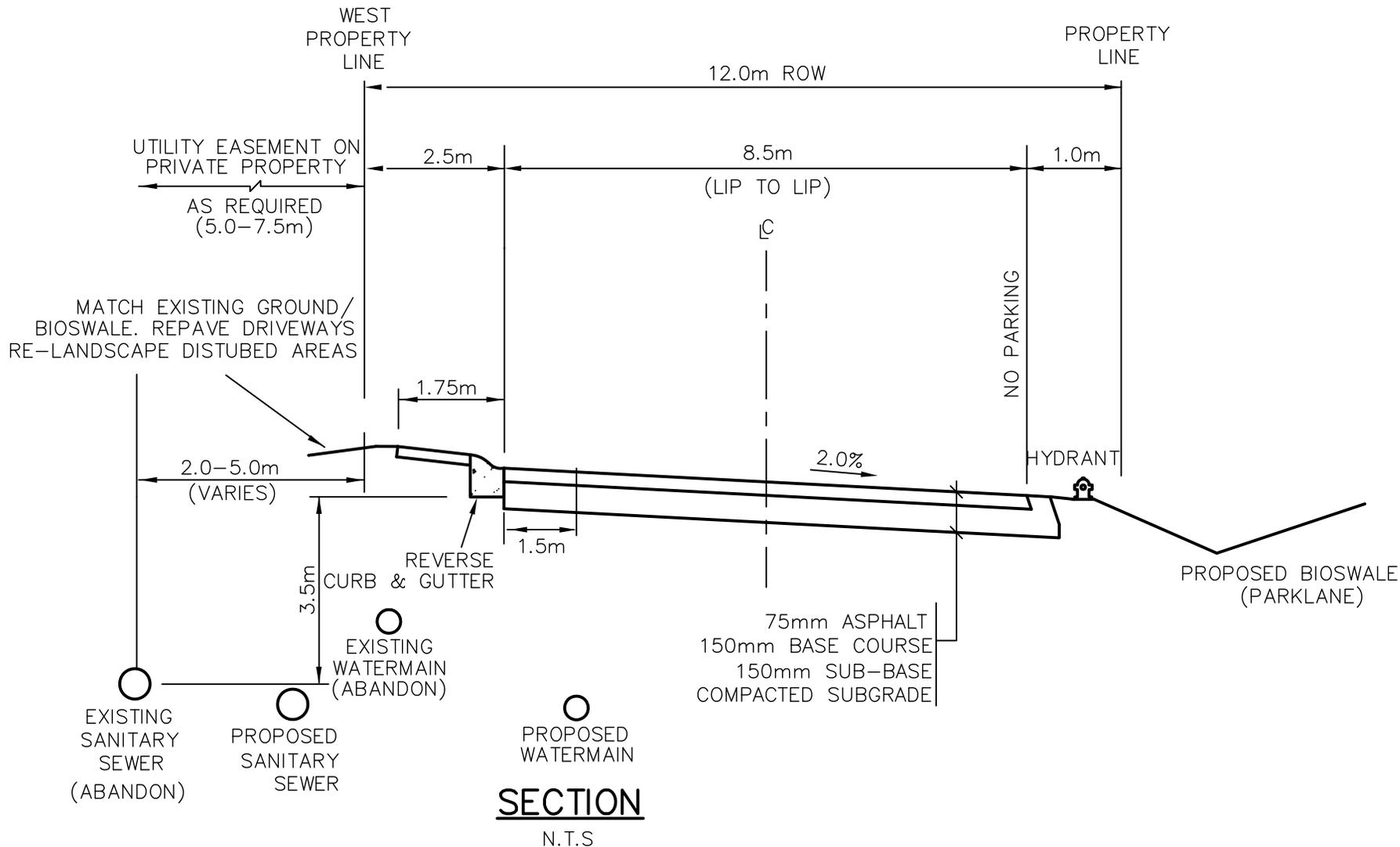




**4.5a - PROPOSED RESIDENTIAL STREET SECTION**  
**PARK LANE (W), DALTON TRAIL, SUNSET DR. N (E OF SUMMIT ROAD)**

NOTES:

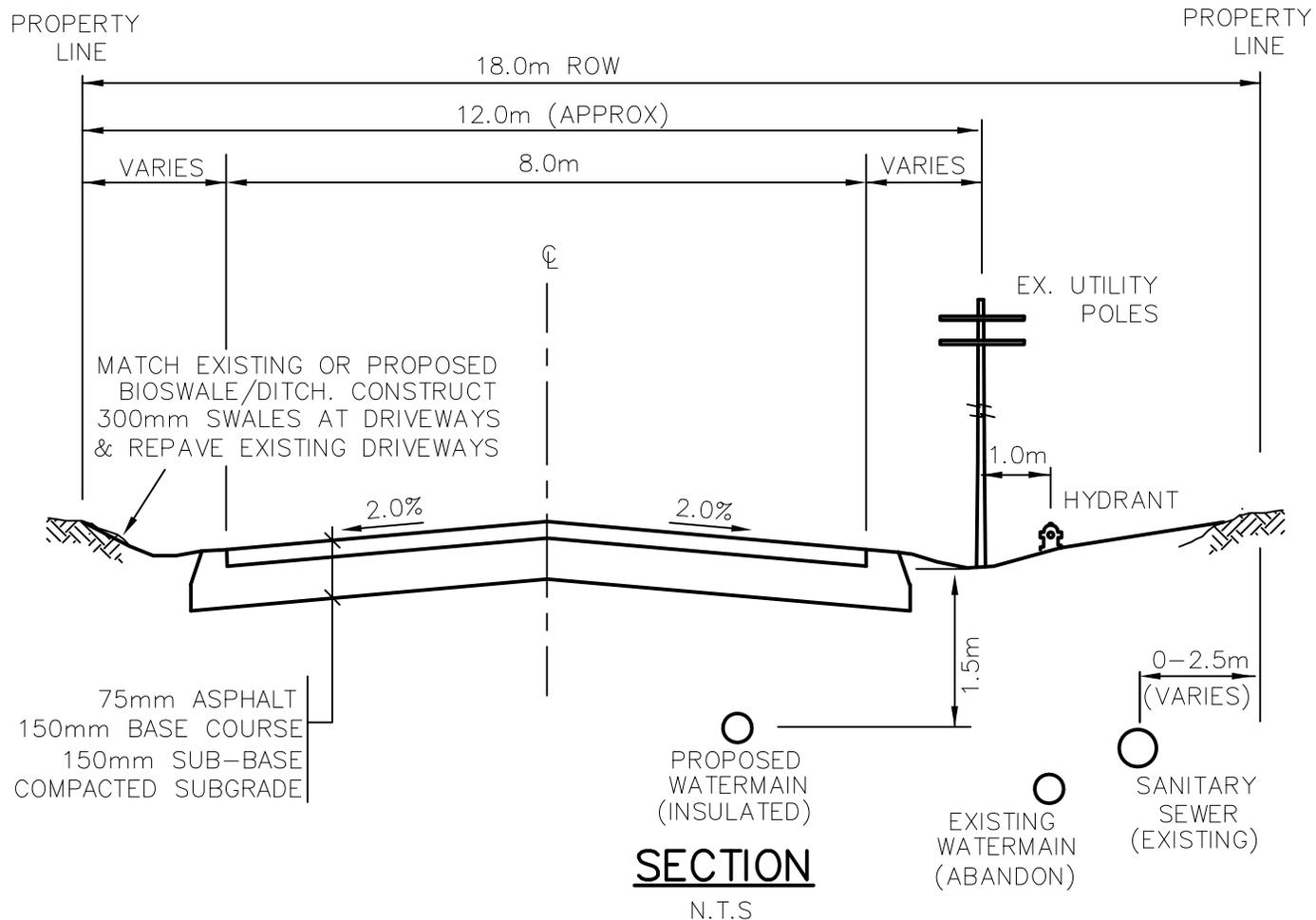
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. UTILITY LOCATIONS SUBJECT TO DETAIL DESIGN
4. EX. PAVED DRIVEWAYS TO BE REPAVED WITH 300mm SWALES
5. ALL DRIVEWAYS SHALL HAVE A MAXIMUM WIDTH OF 9.0m



**4.5b - PROPOSED RESIDENTIAL STREET SECTION  
PARK LANE (E) (BUS ROUTE)**

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.
4. UTILITY LOCATIONS SUBJECT TO DETAIL DESIGN

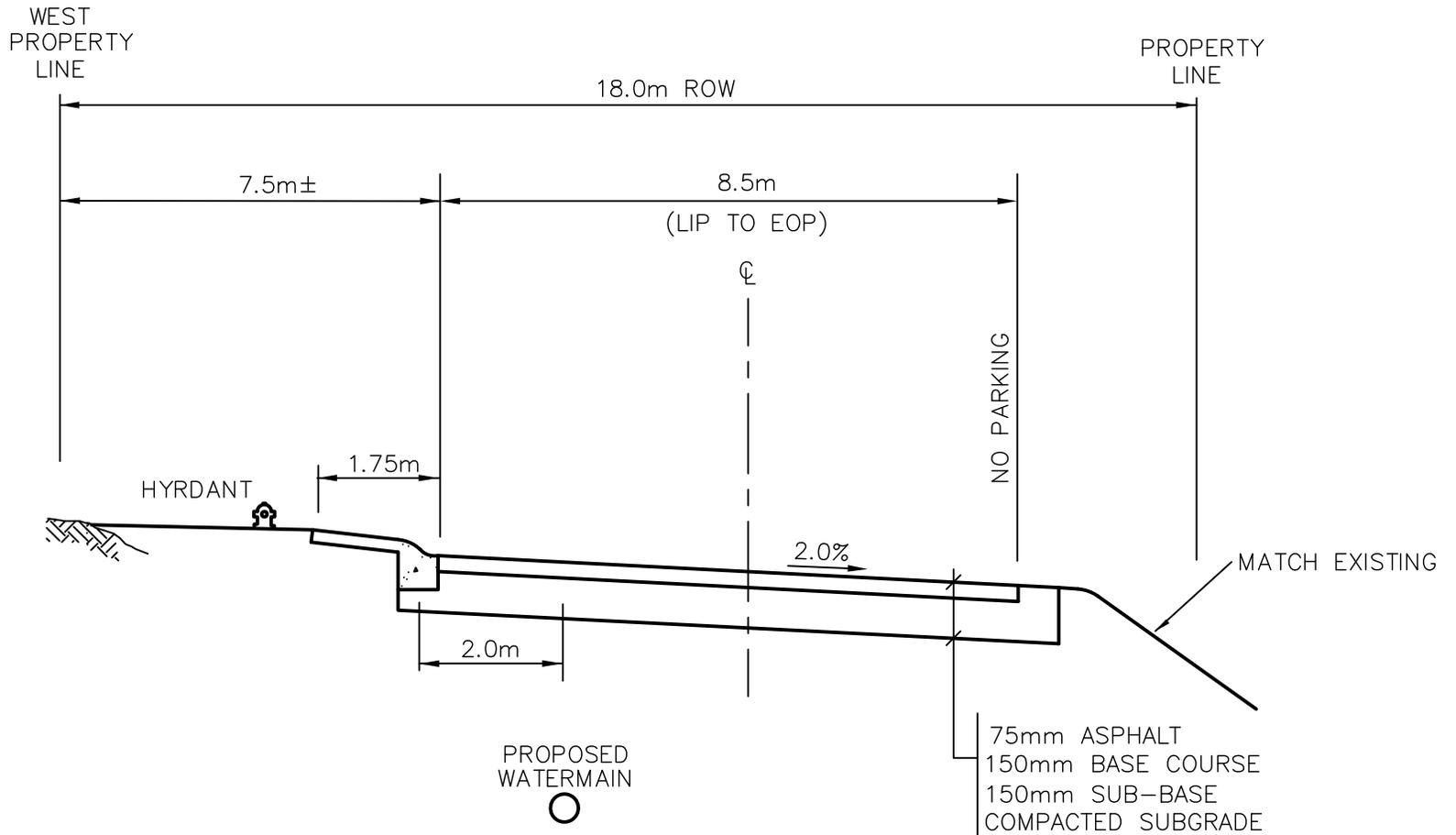


### 4.5c - PROPOSED RESIDENTIAL STREET SECTION

#### KLUANE CR., SUNSET DR. S., SUMMIT RD. (S), ROUNDEL RD. (W), CHALET CR.

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.
4. UTILITY LOCATION SUBJECT TO DETAIL DESIGN
5. PROPOSED ROAD ALIGNMENT TO VARY WITH R.O.W., CENTERED ON EXISTING ROAD TO MINIMIZE IMPACT ON EXISTING AREAS



**SECTION**

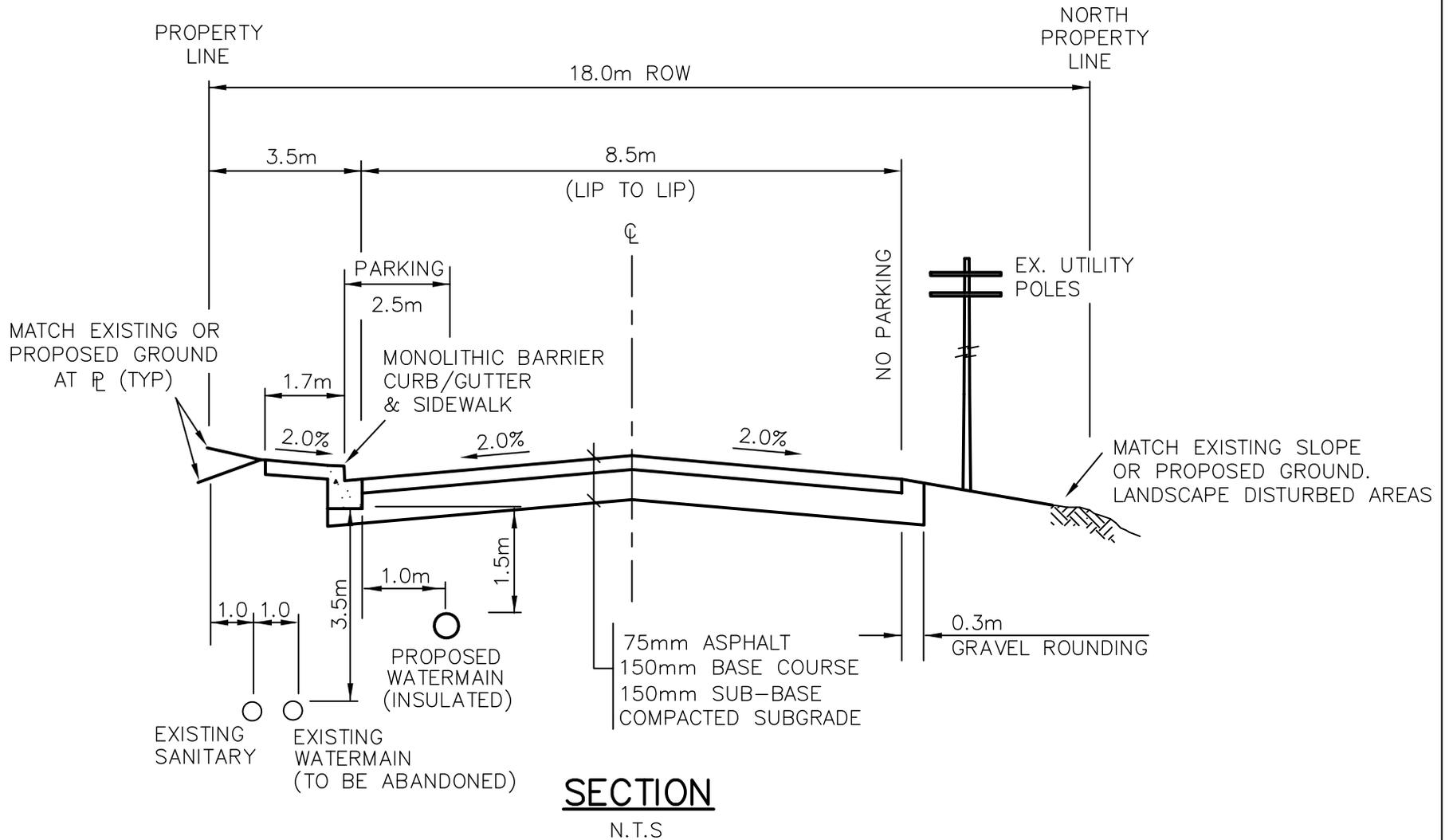
N.T.S

**4.5d - PROPOSED RESIDENTIAL STREET SECTION**

**SUMMIT RD. (N) (BUS ROUTE)**

NOTES:

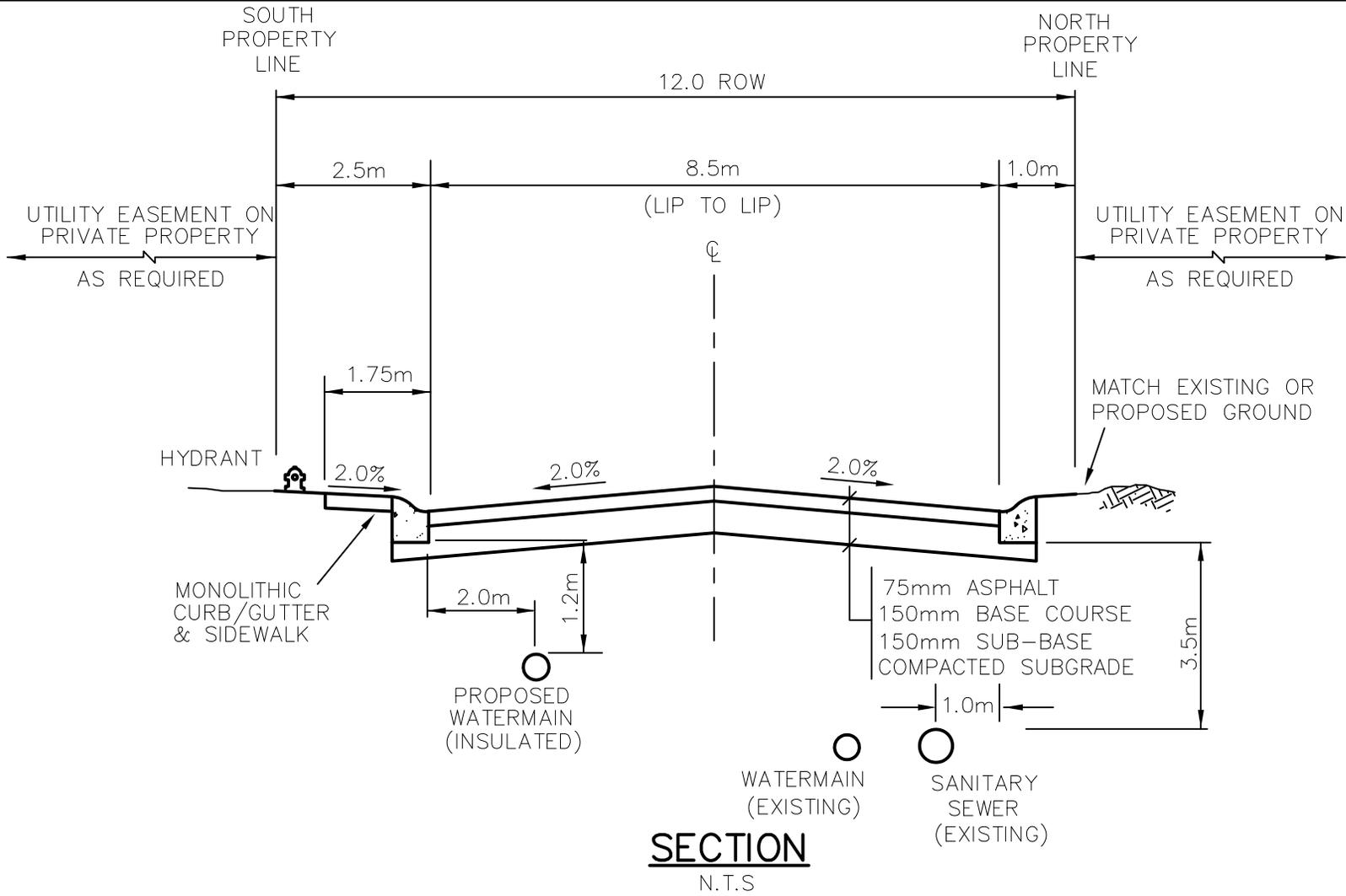
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.
4. UTILITY LOCATIONS SUBJECT TO DETAIL DESIGN



**4.5e - PROPOSED RESIDENTIAL STREET SECTION (BUS ROUTE)**  
**ROUNDEL RD. (E of Summit to match existing at Burns Road)**

NOTES:

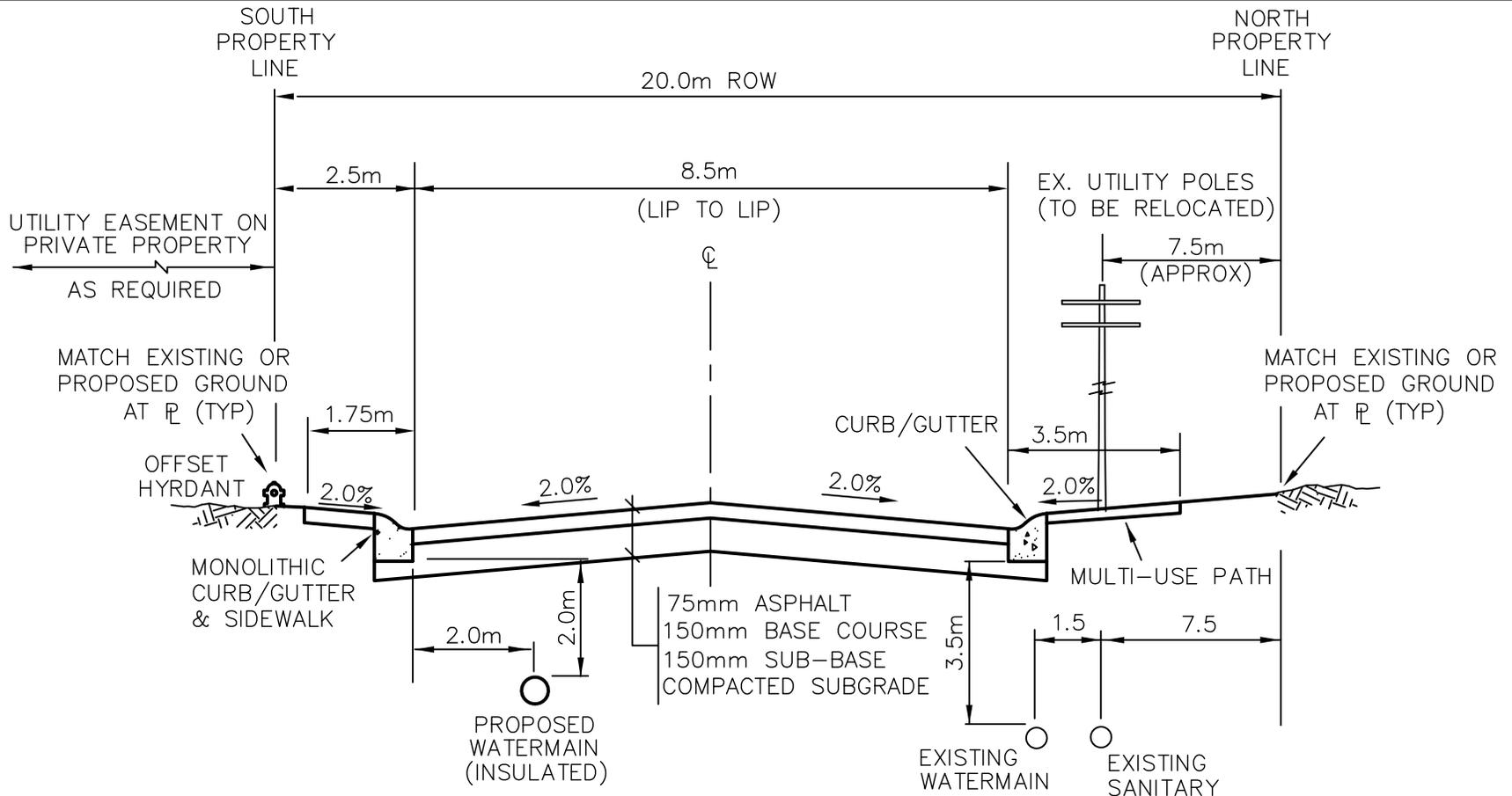
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE.
3. RTAC CLASSIFICATION ULU-50.
4. ROUNDEL ROAD IS A BUS ROUTE (DAILY, SOUTHSIDE ONLY)



**4.5f - PROPOSED RESIDENTIAL STREET SECTION  
HILLCREST DR. W (PARK LN. (W) to PARK LANE (E))  
and SUNSET DR N (ROUNDEL RD to SUMMIT DR)**

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.
4. SANITARY ALIGNMENT VARIES DEPENDING ON STREET



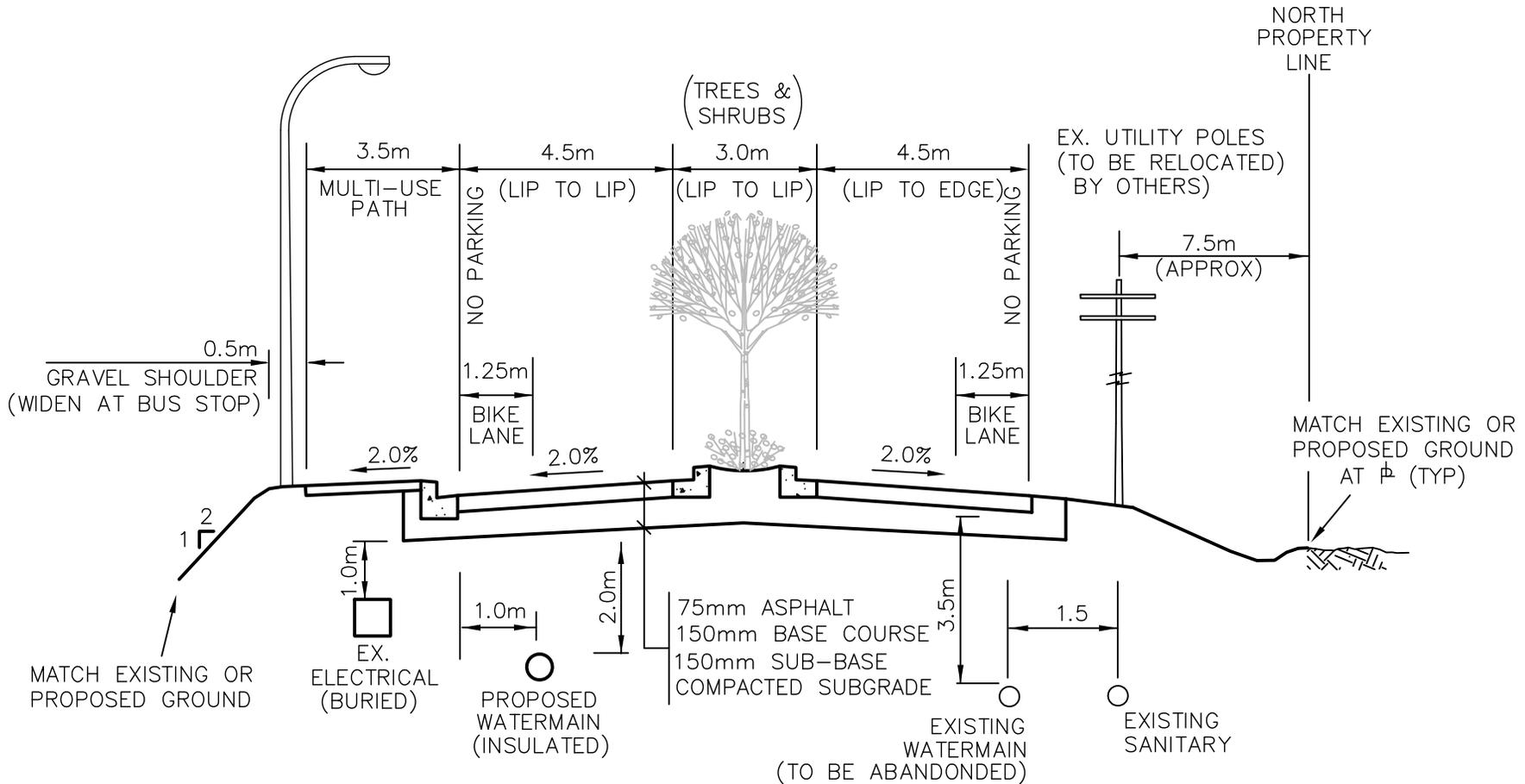
## SECTION

N.T.S

### **4.5g - PROPOSED RESIDENTIAL STREET SECTION (BUS ROUTE) HILLCREST DR. (CENTRE) PARK LANE (E) to DALTON TRAIL (E)**

#### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.



**SECTION**

N.T.S

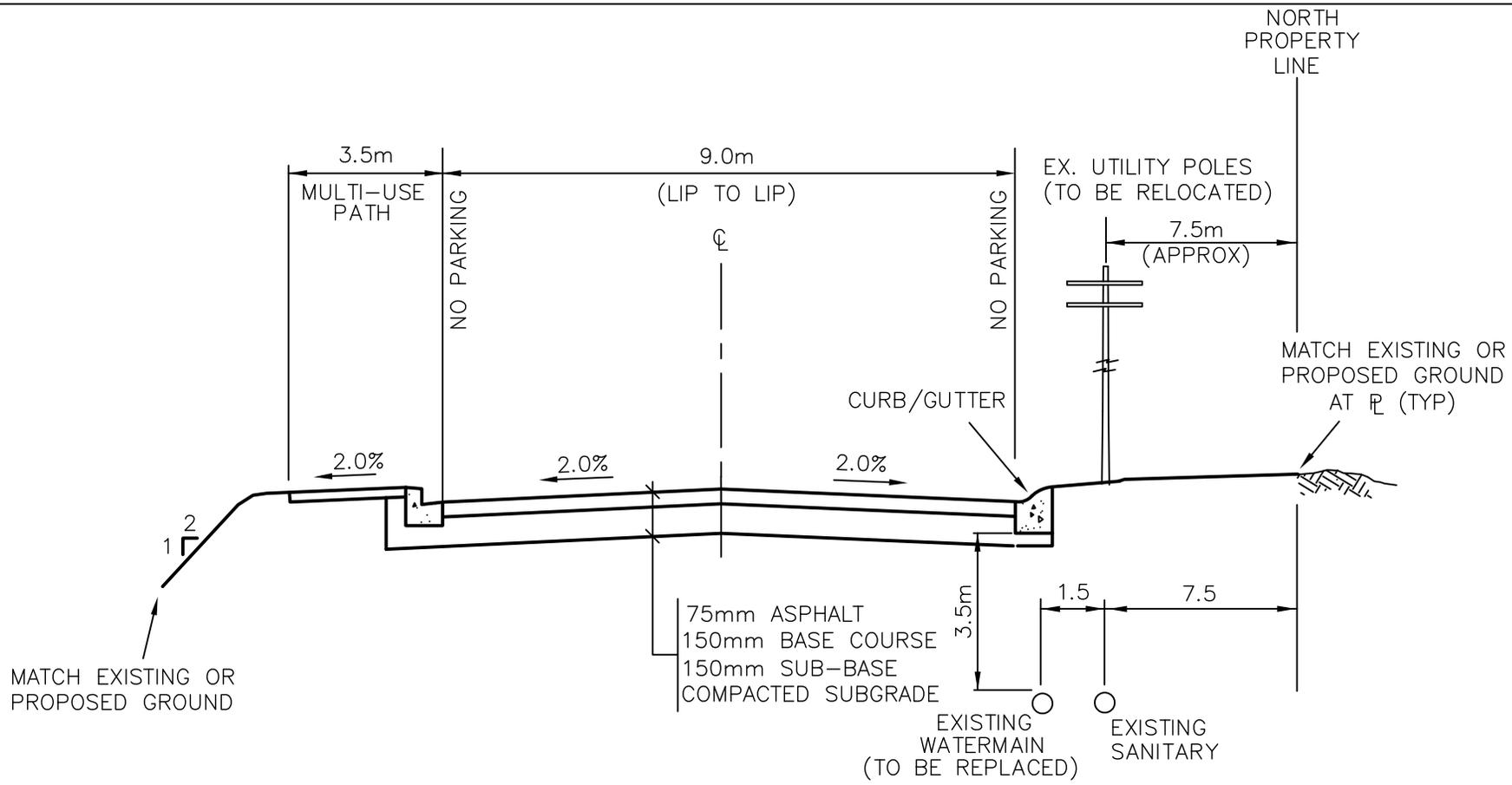
**4.5h - PROPOSED RESIDENTIAL STREET SECTION (BUS ROUTE & BIKE ROUTES)**

**HILLCREST DR. (E)**

**DALTON TRAIL to SUMMIT ROAD**

**NOTES:**

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.
4. BIKE LANES MARKED WITH CHEVRONS & BIKE LOGO



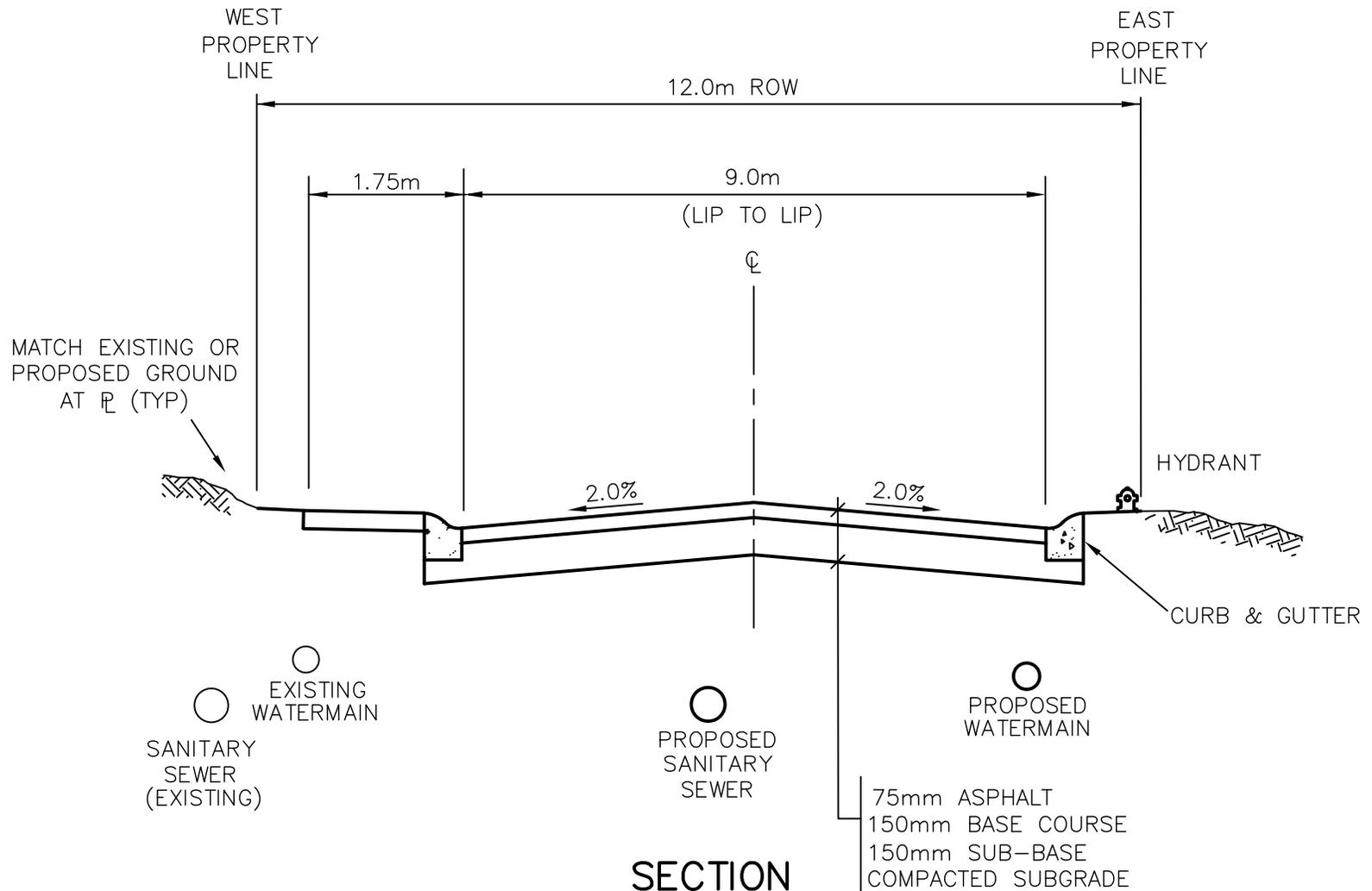
**SECTION**  
N.T.S

**4.5i - PROPOSED RESIDENTIAL STREET SECTION (BUS ROUTE & BIKE LANES)  
HILLCREST DR. (E)  
SUMMIT ROAD to BURNS ROAD**

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
- 3. RTAC CLASSIFICATION ULU-50.
- 4. ROAD SIDE SLOPES FOR DEPTHS OF EMBANKMENT TO BE DESIGNED BY A GEOTECHNICAL ENGINEER. DETERMINE SIDE SLOPES:
 

| DEPTH OF FILL | SIDE SLOPE (MIN)                 |
|---------------|----------------------------------|
| 0 - 2         | 3 : 1                            |
| 2.0 - 3.0     | 2 : 1                            |
| > 3.0         | 1.5 : 1 (GUIDE RAIL AS REQUIRED) |



**SECTION**

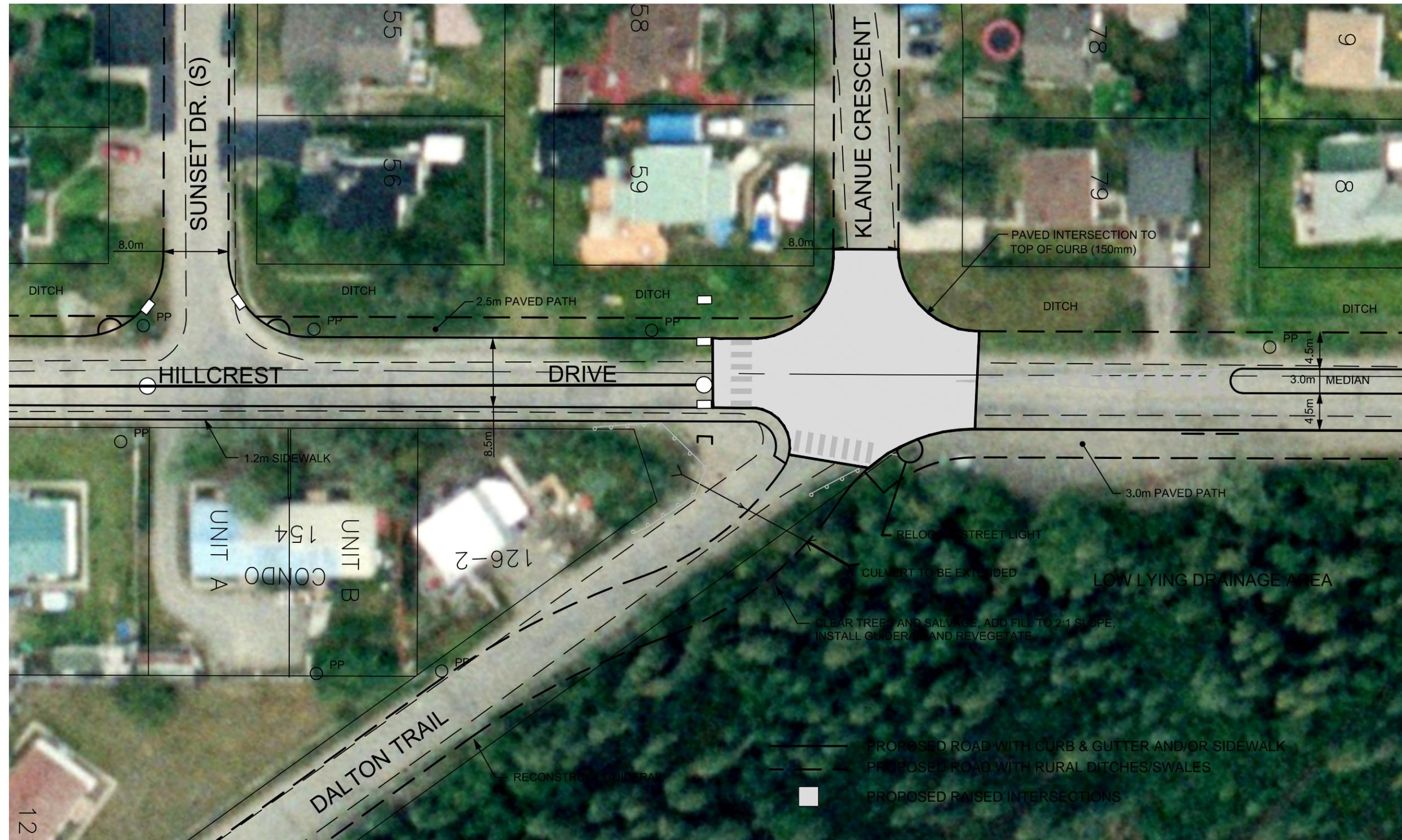
N.T.S

**4.5j - PROPOSED STREET SECTION  
BURNS ROAD (Roundel Rd. to Hillcrest Dr.)**

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE. ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADING.
3. RTAC CLASSIFICATION ULU-50.





12

|                            |         |
|----------------------------|---------|
| EDGE OF PAVEMENT<br>w CURB | ———     |
| w/o CURB                   | - - - - |

| No.                | DATE | DESCRIPTION | BY | APP |
|--------------------|------|-------------|----|-----|
| REVISIONS & ISSUES |      |             |    |     |

|         |              |
|---------|--------------|
| SCALE   | HOR. 1 : 500 |
| VER.    |              |
| DESIGN  |              |
| DRAWN   | B. BOORSE    |
| CHECKED | G. QUINSEY   |



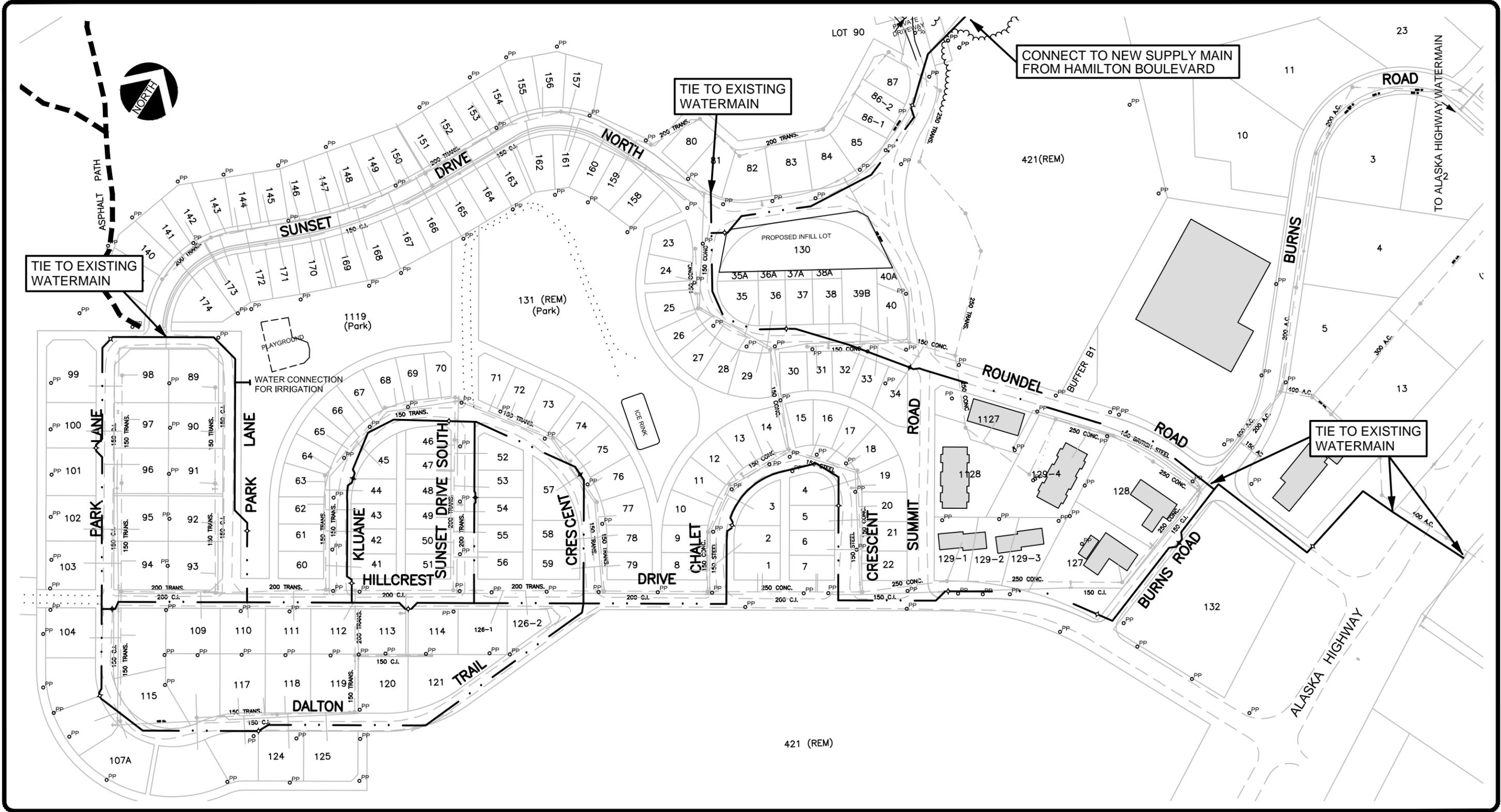
**HILLCREST RECONSTRUCTION**

CITY DWG. No. \_\_\_\_\_ CONSULTANT DWG. No. \_\_\_\_\_

4.7 - PROPOSED RE-ALIGNMENT  
HILLCREST DRIVE at DALTON TRAIL

SHEET  
OF  
REV.





| NO. | DATE | DESCRIPTION | BY | APP. |
|-----|------|-------------|----|------|
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |

| NO. | DATE | DESCRIPTION | BY | APP. |
|-----|------|-------------|----|------|
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |

|           |            |
|-----------|------------|
| SCALE     | 1 : 2 500  |
| HOR. VER. |            |
| DESIGN    |            |
| DRAWN     | B. BOORSE  |
| CHECKED   | G. QUINSEY |



**HILLCREST RECONSTRUCTION**

**5.1 - PROPOSED UTILITIES  
WATER NETWORK**

|       |  |
|-------|--|
| SHEET |  |
| OF    |  |
| REV.  |  |

# 5.2 HILLCREST RECONSTRUCTION PRE DESIGN WATER SYSTEM ASSESSMENT



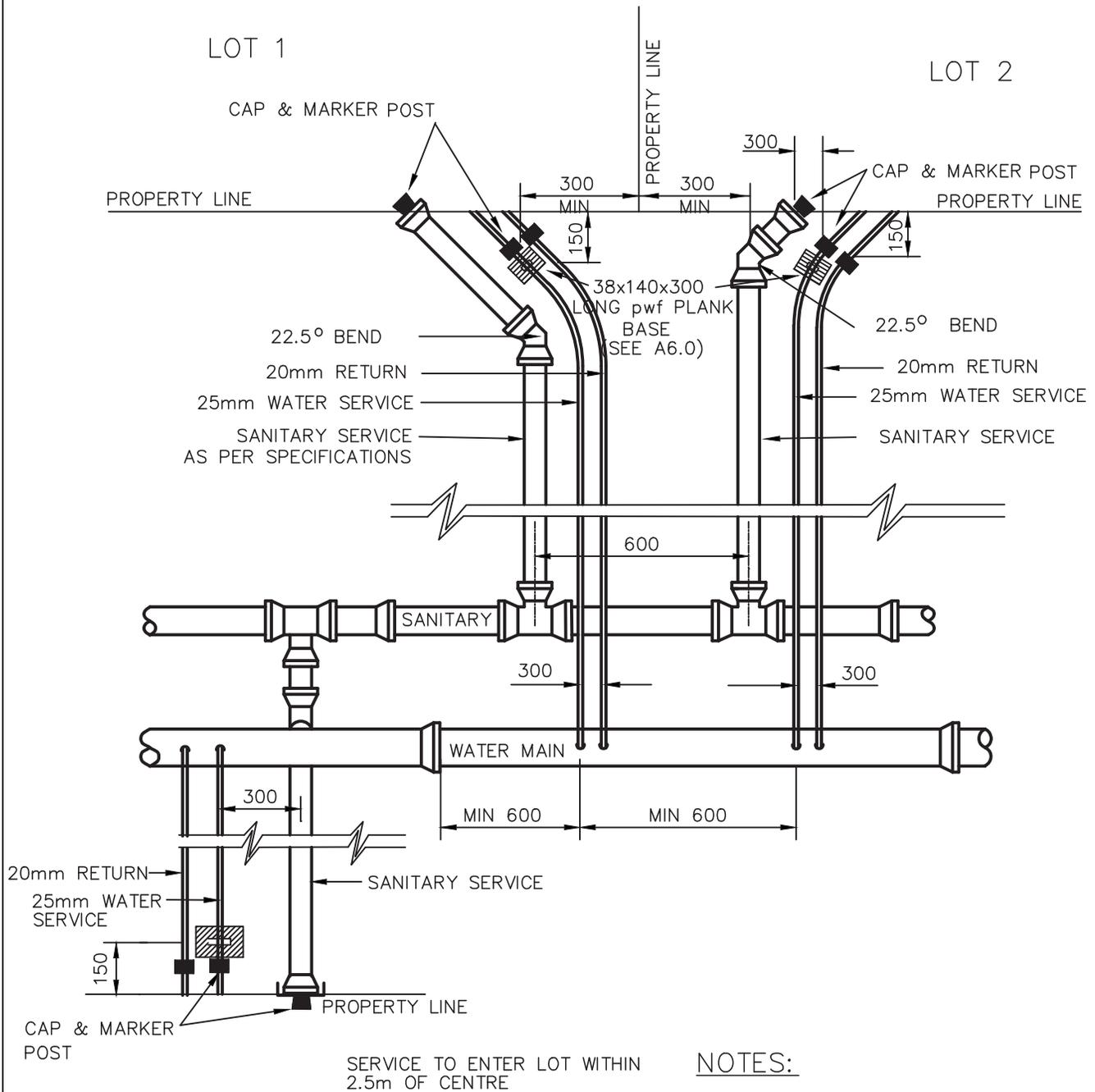
Proposed Network - Available Fire Flows at MDD plus Fire







## TYPICAL DOUBLE SERVICE

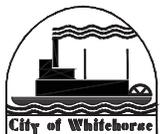


### NOTES:

1. ENDS OF SERVICES TO BE MARKED WITH A 50mm x 100mm STAKE PROTRUDING 500mm ABOVE GROUND PAINTED AS FOLLOWS:
  - A. SANITARY SERVICE - RED
  - B. WATER SERVICE & RECIRC - BLUE
2. SEWER SERVICES MUST BE PROPERLY CAPPED
3. ALL DIMENSIONS GIVEN IN MILLIMETRES.

LOT 24

## TYPICAL SINGLE SERVICE

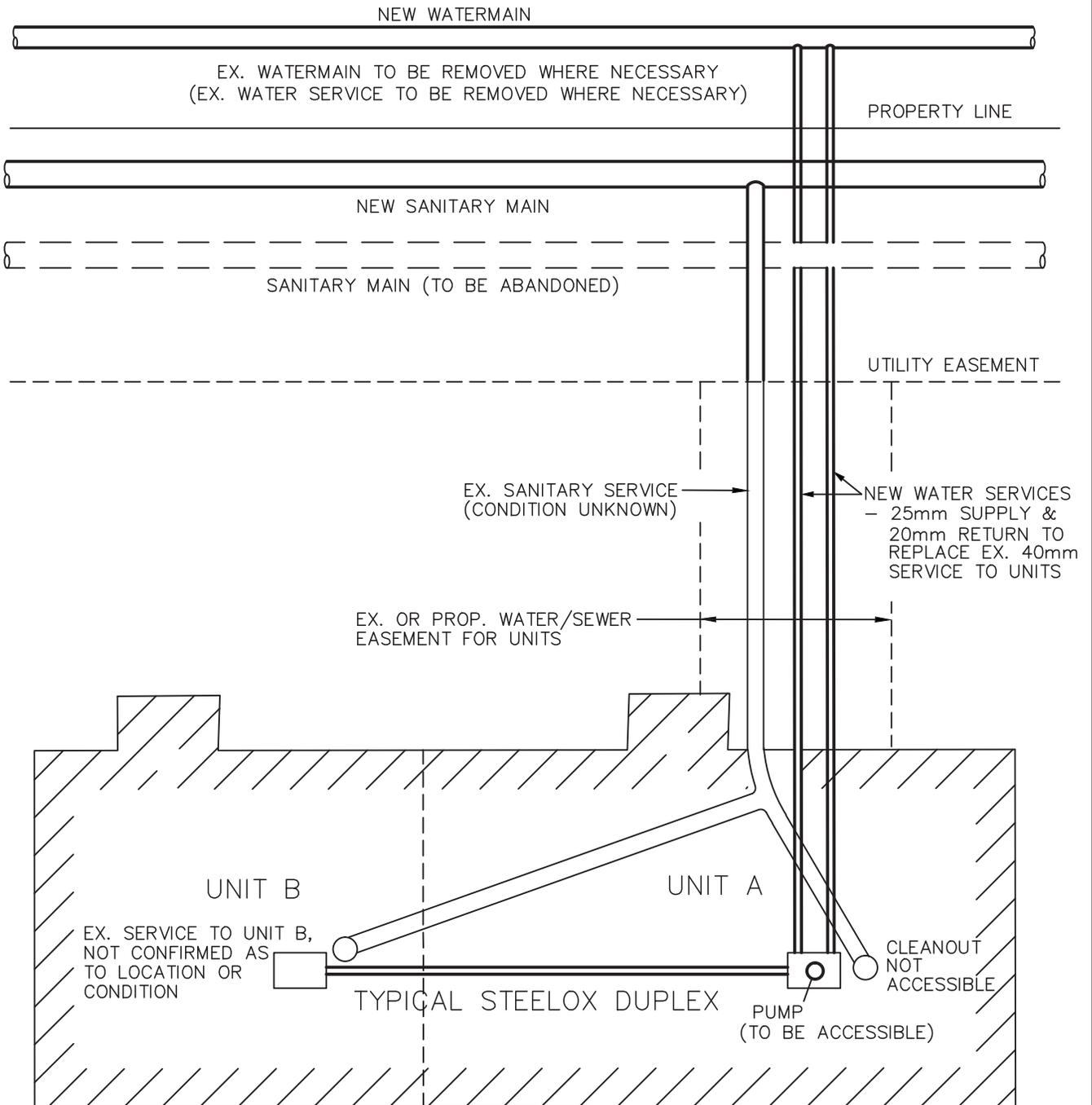


Engineering Department

# 7.1 - SINGLE AND DOUBLE SERVICE LAYOUT

DATE: JANUARY 2007

STD DWG

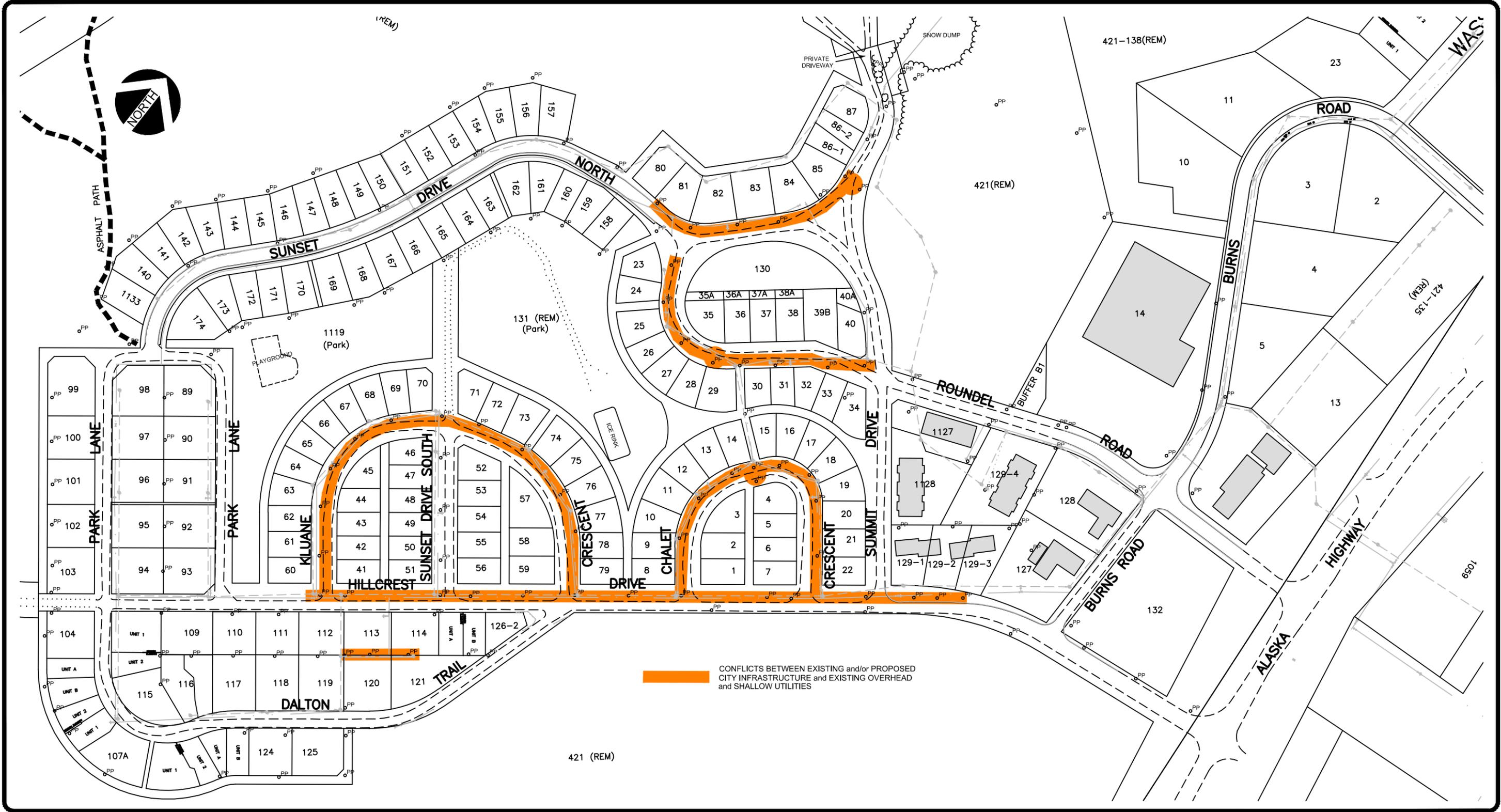


Engineering  
Department

## 7.2 - PROPOSED WATER/SEWER SERVICE

DATE: APRIL 2013

STD DWG



EDGE OF PAVEMENT  
w CURB ———  
w/o CURB - - - - -

| NO. | DATE | DESCRIPTION | BY | APP. |
|-----|------|-------------|----|------|
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |
|     |      |             |    |      |

REVISIONS & ISSUES

SCALE  
HOR. VER.  
1 : 2 500

DESIGN  
B. BOORSE

DRAWN  
G. QUINSEY

CHECKED  
G. QUINSEY



HILLCREST RECONSTRUCTION

CITY DWG. No. \_\_\_\_\_ CONSULTANT DWG. No. \_\_\_\_\_

8.1 - EXISTING OVERHEAD & SHALLOW UTILITY CONFLICTS

SHEET  
OF  
REV.

