Thornton Crossroads at 104th Avenue Station
90% Design Submittal
Sand Oil Interceptor Sizing Calculations –
Parking Garage
CDRL 03-037.11.06
June 2, 2017

Prepared by:
Regional Rail Partners
For:
North Metro Rail Line Project
RTD CONTRACT No. 13DH008

Having checked this item of Contract Data, I hereby certify that it conforms to the requirements of the Agreement in all respects, except as specifically indicated.

______________________________
David Trent, RRP Project Director
NORTH METRO RAIL LINE PROJECT

QA CERTIFICATION OF CONFORMANCE

DESIGN SUBMITTAL

CDRL No. 03-037.11.06

THORNTON CROSSROADS AT 104TH STATION
PARKING GARAGE

90% Submittal

QA STATEMENT

Upon examination of the documents of this submittal, I find that:

The Quality Assurance process was completed and meets the requirements identified in the Design Quality Management Plan.

________________________
Quality Assurance Manager 06/02/2017

Date
NORTH METRO RAIL LINE PROJECT

Submittal: CDRL No. 03-037.11.06

THORNTON CROSSROADS AT 104TH AVENUE
PARKING GARAGE

SAND/OIL INTERCEPTOR SIZING CALCULATIONS

For 90% Submittal
NMRL 104th Parking Garage

Sand/Oil Interceptor Sizing

No local sizing requirements or amendments for the City of Thornton.
2015 IPC Section 1003.4.2.2 does not apply to garages that are used only for the parking/storage of cars.
If sized per the IPC methodology, the required interceptor capacity would be 19,528 gallons.

The City has agreed to allow sizing methodology per the Parker Water and Sanitation District.

13.7 Oil and Sand Interceptor Sizing

a. Parking Garage - Six (6) cubic feet plus one (1) cubic foot per ten (10) vehicles

b. Repair Garage, Warehouse - Six (6) cubic feet plus one (1) cubic foot per 100 square feet

<p>| Parking Garage Total Drainable Area to SS: | 260550 sq. ft. |
| Total Parking Spaces:                     | 820 spaces |</p>
<table>
<thead>
<tr>
<th>Capacity (cubic feet)</th>
<th>Vehicles</th>
<th>Interceptor Capacity (cubic feet)</th>
<th>Sets of 10 Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>0</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>82</td>
<td>82</td>
</tr>
</tbody>
</table>

Total Capacity: 88 cubic feet
658 gallons

Provide a 750 Gallon Interceptor