TOID connection with pecan

1) **process_retina_site()** in the **rpecanapi** package takes in the the unique identifier of the site (TOID, etc) and sends API request (/data/rpecanapi/R/process_retina_site.R)

```
process_retina_site <- function(server, unique_id, x = NA, y = NA, proj = NA){
   ...

   res <- httr::GET(
                "api:8000/api/retina/?unique_id=osgb1000000171747080",
                httr::authenticate(server$username, server$password)
          )
   ...
}
```

2) **siteRETINA()** in **retina.R** in the **api package in pecan** take unique id and gives it to the function (/
3) **site_to_bety()** in the **RETINA** package which inserts the site information in the BETY database and returns json data (/data/RETINA/R/site_to_bety.R)
   *Note this is what had been toid2bety.R but is not moved to site_to_bety.R, there was a naming discrepancy.

```
siteRETINA <- function(req, unique_id = NA, x = NA, y = NA, proj = NA, res){

  site_json <- RETINA::site_to_bety(unique_id = NA, x = NA, y = NA, proj = NA)
  return(site_json)

}
```

```
# Script for testing API

# Balruddery site
unique_id = "osgb1000000175422023"

# Working backwards

# Test just the site to bety function
json_output <- RETINA::site_to_bety(unique_id = "osgb1000000175422023")

# test connection from within the api function

server <- rpecanapi::connect(
  url = "api:8000",
  username = "carya",
  password = "illinois")

rpecanapi::ping(server)

res <- httr::GET(
  "api:8000/api/retina/?unique_id=osgb1000000175422023",
  httr::authenticate(server$username, server$password)
)
# connecting, but not really sure how to get the output back

#=========================================================#

library(tidyverse)
# also need DBI and Rpostgres

# If we just want to get site information from BETY based on
# TOID id

# connect to bety databse
params <- list(
  host = "postgres",
  dbname = "bety",
  user = "bety",
  password = "bety",
  bigint     = "numeric"
)

drv <- RPostgres::Postgres()
args <- c(drv = drv, params, recursive = TRUE)
con <- do.call(DBI::dbConnect, as.list(args))

# Query from the sites table and
# filter by sitename which is TOID
```

```
# Balruddery site
unique_id = "osgb1000000175422023"

site_filter <- dplyr::tbl(bety, "sites") %>%
  dplyr::filter(sitename == unique_id) %>%
  dplyr::collect()

dplyr::glimpse(site_filter) # should only be one entry
```