K·FRIESE + ASSOCIATES
A LOCHNER COMPANY

1120 S. Capital of Texas Highway
CityView 2, Suite 100, Austin, Texas 78746
P 512.338.1704 | kfriese.com
TBPE Firm No. 6535

# MEMORANDUM

**TO:** Ashley Wayman

**FROM:** Abe Salinas, PE, CFM

**DATE:** September 11, 2024

**SUBJECT:** Nixon/Pleasant Change Order 1 – Wastewater Conflict Resolution

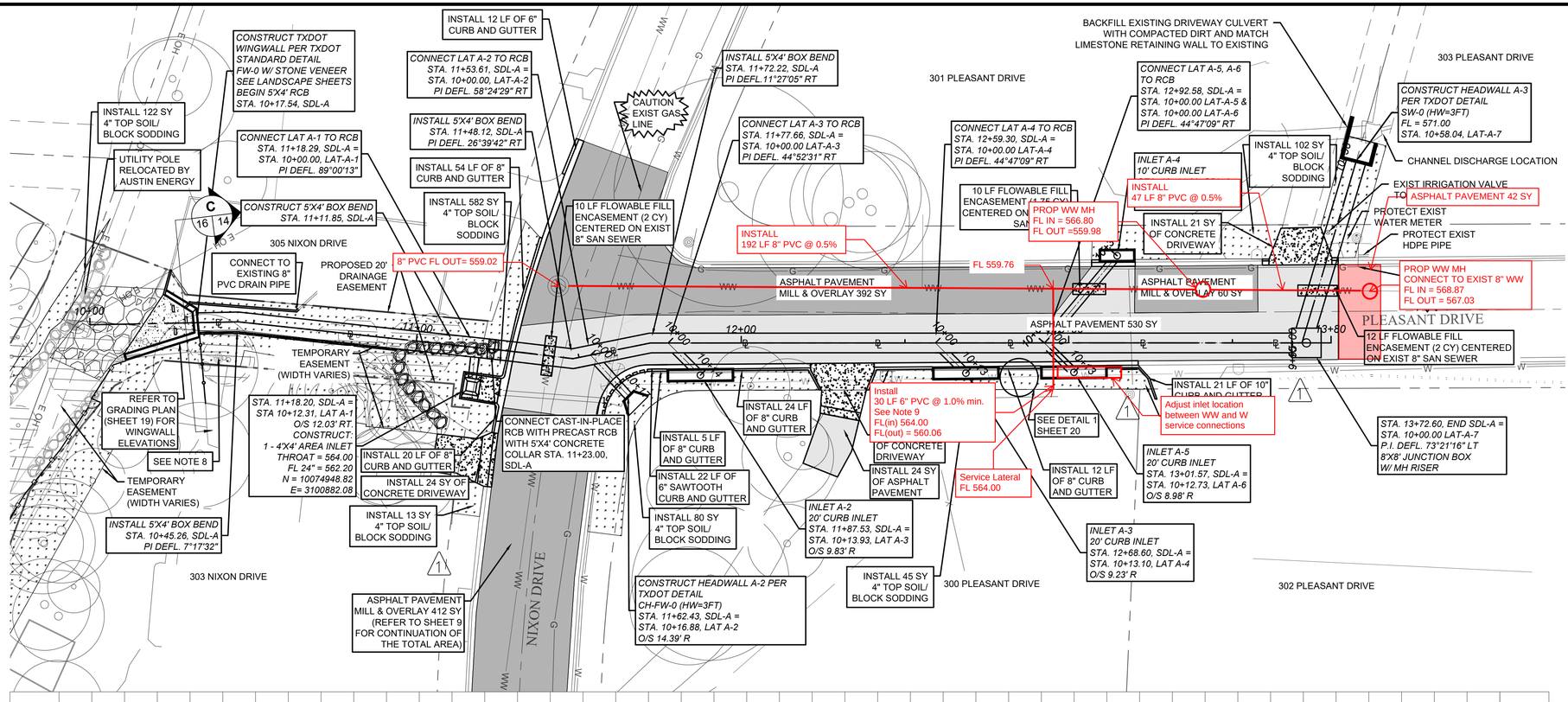
---

During the ongoing construction along Pleasant Drive, a conflict was identified between the proposed storm drainage infrastructure and the existing 8" wastewater main. Although this issue surfaced during construction, the necessary adjustment would have been required regardless of when it was identified—whether during the design phase or construction.

The storm drainage design relied on a combination of field survey data and record drawings. Survey data from the downstream manhole at Nixon and Pleasant Drive indicated a flowline elevation of 559.02', while record drawings for the upstream manhole showed an elevation of 574.95'. These elevations were used to calculate the slope of the wastewater main and confirm its clearance from the proposed 5x4 reinforced concrete box (RCB) storm drainage structure. However, during construction, it was determined that the actual elevation of the upstream manhole was 576.09' —approximately one foot higher than expected. This discrepancy placed the wastewater main in direct conflict with the storm drainage infrastructure and the lateral connection servicing 300 Pleasant Drive.

Even if this elevation difference had been identified during the design phase, the relocation of the wastewater main would still have been necessary. The proposed 5x4 RCB storm drainage structure is substantial, and its relatively shallow installation requires adequate vertical clearance, which the existing wastewater line, at its current elevation, cannot provide. Therefore, the relocation of the wastewater main is not the result of a design change, but a required adjustment to complete the project as planned and ensure the proper functioning of both the stormwater and wastewater systems.

In summary, whether identified earlier or later, the relocation of the wastewater main is essential to meet the project's objectives of flood risk reduction and to maintain alignment with the original design intent.




**NOTES:**

1. SEE LANDSCAPE SHEETS FOR LANDSCAPE WALL AND BOULDER PLACEMENT.
2. PLACEMENT OF ROCK RIPRAP SHALL HAVE A MINIMUM THICKNESS OF 36 INCHES OR TO THE DEPTH OF BEDROCK. COORDINATE WITH ENGINEER IF BEDROCK IS EXPOSED PRIOR TO ROCK PLACEMENT.
3. ALL PRESERVED TREE/CANOPY SHALL BE PROTECTED IN ACCORDANCE WITH TREE PROTECTION TABLE.
4. CONTRACTOR/INSPECTOR TO FIELD VERIFY EXISTING GRASS AND NEW BLOCK SODDING SHALL MATCH EXISTING TYPE. COORDINATE PLACEMENT OF GRASS AND LANDSCAPE FEATURES WITH PROPERTY OWNERS.
5. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION.
7. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
8. IF IT IS DETERMINED BY THE CITY THAT THERE IS AN ADDITIONAL ENCROACHMENT OF OVERHEAD ELECTRIC LINES ONTO 305 NIXON DRIVE AS A RESULT OF THE RELOCATED AUSTIN ENERGY DISTRIBUTION POLE, THE ELECTRICAL SERVICE POLE LOCATED AT 303 NIXON DRIVE WILL BE RELOCATED. THE CITY WILL INSTRUCT THE CONTRACTOR TO MOVE THE SERVICE POLE TO A NEW LOCATION THAT WILL HELP MITIGATE THE ADDITIONAL ENCROACHMENT TO A CURRENT DEGREE OF ENCROACHMENT OR BETTER. THE CONTRACTOR SHALL CONSULT WITH THE PROPERTY OWNER AT 303 NIXON DRIVE TO RELOCATE THE POLE CLOSER TO THE FENCE LINE IN AN ACCEPTABLE LOCATION FOR ALL PARTIES THAT ACHIEVES THE GOAL OF THE RELOCATION.
9. Install 45 degree bends on lateral to achieve flowline elevation of 560.06. Slope of lateral to be maintained between 1% and 10%.

25 YEAR HGL
100 YEAR HGL
TREE

KFA REDLINE REVISIONS 9/12/24

| REV NO. | BY | DATE | REVISION DESCRIPTION |
|---|---|---|---|
| 1 | DB | 10/05/2023 | ADDENDUM #2 |

CITY OF ROLLINGWOOD, TEXAS

CITY OF ROLLINGWOOD
NIXON/PLEASANT DRAINAGE IMPROVEMENTS

STORM SEWER PLAN & PROFILE
STA. 10+00.00 TO STA. 12+67.58

ROLLINGWOOD TEXAS

K·FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING

1120 S. Capital of Texas Highway
CityView 2, Suite 100
Austin, Texas 78746
P – 512.338.1704 F – 512.338.1784
TBPE Firm #6535
www.kfriese.com

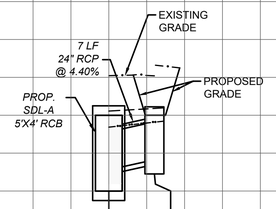
| NOTES | NAME | DATE |
|---|---|---|
| SURVEY BY | | |
| DRAWN BY | AH | 08/21 |
| DESIGNED BY | LWM | 08/21 |
| CHECKED BY | GE | 08/21 |
| REVIEWED BY | | |

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

ALDO HERNANDEZ

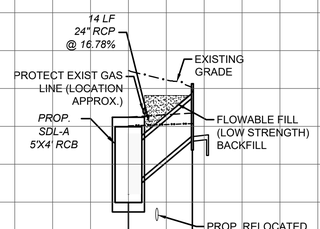
X:\PROJECTS\50807_ROLLINGWOOD_NIXON-PLEASANT_DRAINAGE_IMPROVEMENTS\DGN\SHEETS\50807-C-SD-PLPR.DWG — COA_ESD.STB
11/15/2023 5:51 PM

## LAT-A1



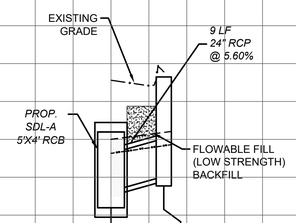

STA. 10+00.00 LAT-A-1 =
STA. 11+24.34, SDL-A
561.12 (24") LAT-A-1
560.00 (5'X4') SDL-A
STA. 11+18.20, SDL-A
PROP. 48"X48" AREA INLET
TOP 564.44
THROAT 564.00
561.65 (24") LAT-A-1
566.08

## LAT-A2



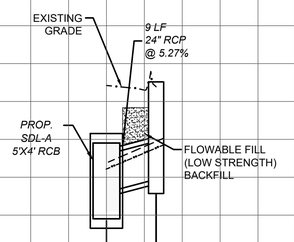

STA. 10+00.00 LAT-A-2 =
STA. 11+53.61, SDL-A
560.67 (24") LAT-A-2
560.28 (5'X4') SDL-A
STA. 11+62.43, SDL-A
PROP. HEADWALL A-2
TOP 566.25
563.50 (24") LAT-A-2
567.15

## LAT-A3



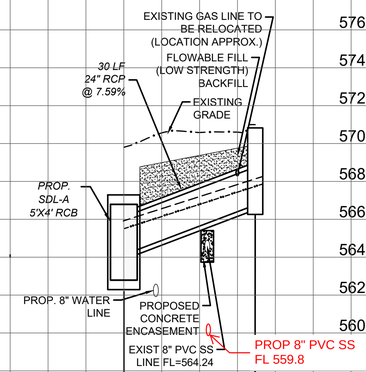

STA. 10+00.00 LAT-A-3 =
STA. 11+77.66, SDL-A
561.26 (24") LAT-A-3
560.89 (5'X4') SDL-A
STA. 11+87.53, SDL-A
PROP. 20' CURB INLET
TOP 567.29
562.04 (24") LAT-A-3
567.09

## LAT-A4



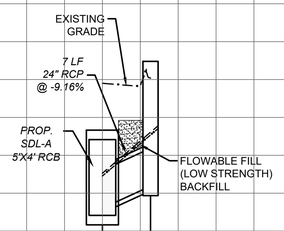

STA. 10+00.00 LAT-A-4 =
STA. 12+59.30, SDL-A
563.20 (24") LAT-A-4
562.21 (5'X4') SDL-A
STA. 12+68.60, SDL-A
PROP. 10' CURB INLET
TOP 569.03
563.89 (24") LAT-A-4
568.83

## LAT-A5



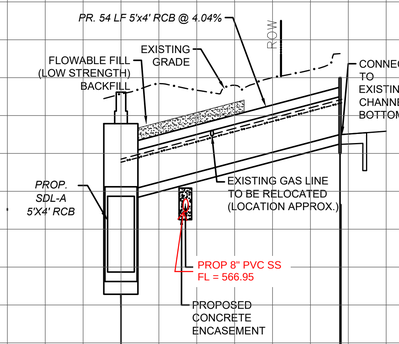

STA. 10+00.00 LAT-A-5 =
STA. 12+92.58, SDL-A
564.13 (24") LAT-A-5
562.79 (5'X4') SDL-A
STA. 13+14.80, SDL-A
PROP. 20' CURB INLET
TOP 570.83
566.76 (24") LAT-A-5
569.91

## LAT-A6




STA. 10+00.00 LAT-A-6 =
STA. 12+92.58, SDL-A
563.71 (24") LAT-A-6
562.79 (5'X4') SDL-A
STA. 13+01.57, SDL-A
PROP. 20' CURB INLET
TOP 570.96
FL(IN). 564.37 (24") LAT-A-6
569.91

## LAT-A7




STA. 10+00.00 LAT-A-7 =
STA. 13+71.24 SDL-A
PROP. 8'X8' JUNCTION BOX
TOP 571.52
567.96 (5'X2') LAT-A-7
563.74 (5'X4') SDL-A
STA. 10+57.81, LAT-A-7
PROP. 5'X2' HEADWALL A-3
RIM EL. 574.00
571.00 (5'X2') LAT-A-7
573.24

| LEGEND | |
|---|---|
| 25 YEAR HGL | ---------- |
| 100 YEAR HGL | – – – – |

KFA REDLINE REVISIONS 9/12/24

| REV NO. | BY | DATE | REVISION DESCRIPTION |
|---|---|---|---|
| | | | |

CITY OF ROLLINGWOOD, TEXAS

CITY OF ROLLINGWOOD
NIXON/PLEASANT DRAINAGE IMPROVEMENTS

STORM SEWER LATERAL PROFILES

ROLLINGWOOD TEXAS


K·FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING
1120 S. Capital of Texas Highway
CityView 2, Suite 100
Austin, Texas 78746
P – 512.338.1704 F – 512.338.1784
TBPE Firm #6535
www.kfriese.com


| NOTES | NAME | DATE |
|---|---|---|
| SURVEY BY | | |
| DRAWN BY | AH | 08/21 |
| DESIGNED BY | LWM | 08/21 |
| CHECKED BY | GE | 08/21 |
| REVIEWED BY | | |

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

PLPR03 | 17 OF 49

X:\PROJECTS\0807_ROLLINGWOOD_NIXON-PLEASANT_DRAINAGE_IMPROVEMENTS\DGN\SHEETS\0807-CSD-PLPR.DWG, — COA_ESD.STB
11/15/2023 5:51 PM
ALDO HERNANDEZ