

| ummary Table | | | | | | |
|----------------|---------|----------|--|--|--|--|
| (Outflow (cfs) | | | | | | |
| 'ear | 25-Year | 100-Year | | | | |
| 2 | 26 | 33 | | | | |
| 8 | 116 | 151 | | | | |
| | | | | | | |
| ry - By-pass | | | | | | |
| ′ear | 25-Year | 100-Year | | | | |
| 2 | 61 | 78 | | | | |
| | | | | | | |

| Post-Developed Summary - Pond & By-pass Combined | | | | | |
|--|--------|---------|---------|----------|--|
| | 5-year | 10-Year | 25-Year | 100-Year | |
| Peak Outflow (cfs) = | 79 | 91 | 111 | 150 | |
| | | | | | |
| Detention Summary Table | | | | | |
| | 5-year | 10-Year | 25-Year | 100-Year | |
| Peak Inflow (cfs) = | 73 | 88 | 103 | 131 | |
| Peak Outflow (cfs) = | 39 | 52 | 62 | 87 | |
| Peak Storage (ac-ft) = | 1.1 | 1.3 | 1.6 | 2.0 | |
| | | 1 | | | |

*Peak Elevation (ft) = 519.9 520.7 521.4 522.4

| 0 | | |
|----------|---------|--------------|
| olume | Primary | |
| ovided | Q | Comments |
| (a c-ft) | (cfs) | |
| 0.0 | 0.0 | |
| 0.1 | 7.3 | |
| 0.2 | 18.4 | |
| 0.4 | 25.6 | |
| 0.6 | 30.8 | |
| 0.8 | 35.6 | |
| 1.1 | 39.2 | 5-year WSE |
| 1.1 | 39.4 | |
| 1.3 | 50.7 | 10-year WSE |
| 1.5 | 56.2 | |
| 1.6 | 61.7 | 25-year WSE |
| 1.8 | 76.6 | |
| 2.0 | 87.4 | 100-year WSE |
| 2.3 | - | |
| 2.7 | - | |
| 3.0 | - | |

5' x 5' Riser Structure

Orifice 1

Orifice 2

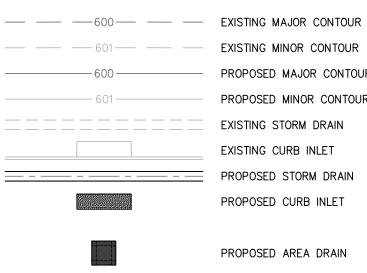
Weir 1

Emergency Spillway 1

BENCHMARKS

TBM NO. 1 X-CUT SET IN CONCRETE LOCATED IN THE X-CUT SET IN CONCRETE LOCATED IN THE CENTER OF A CURB INLET IN THE WEST CENTER OF A CURB INLET IN THE SOUTHWESTERLY CURB LINE OF NORTH CURB LINE OF NORTH JOHN KING JOHN KING BOULEVARD AND BEING +/- BOULEVARD AND BEING +/- 662' NORTH 235' SOUTHEST OF THE NORTHWEST OF THE INTERSECTION NORTH JOHN KING CORNER OF THE SUBJECT TRACT AND +/-BOULEVARD AND WEST QUAIL RUN ROAD 535' NORTHWEST OF THE INTERSECTION OF AND +/- 723' SOUTHEAST OF THE N. JOHN KING BOULEVARD AND EAST INTERSÉCTION OF N. JOHN KING BOULEVARD AND EAST QUAIL RUN ROAD. QUAIL RUN ROAD ELEV: 546.16'

LEGEND



ELEV: 530.38' EXISTING MINOR CONTOUR PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR EXISTING STORM DRAIN EXISTING CURB INLET PROPOSED STORM DRAIN

PROPOSED CURB INLET

PROPOSED AREA DRAIN

NOTES

514

0.67

1

2

1.625

519.5

0.67

1

1.75

1.75

521.25

2.65

5

522.4

80

2.7

522.5

524.4

1.9

2.73

131.0

1

CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.

BERM CONSTRUCTION NOTES:

DETENTION POND EMBANKMENT MATERIAL SHOULD BE PLACED IN LOSE LIFTS NOT EXCEEDING 8 INCHES, MOISTURE CONDITIONED BETWEEN OPTIMUM AND 4 PERCENTAGE POINTS ABOVE OPTIMUM, AND MECHANICALLY COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

2. THE SOIL USED A STRUCTURAL FILL FOR THE DETENTION POND SHALL HAVE A PLASTICITY INDEX RANGING BETWEEN 25 TO 50, WITH A MINIMUM OF 60 PERCENT PASSING THE NO. 200 SIEVE, AND CLASSIFIED AS A FAT CLAY (CH).

VEGETATION AND ALL LOOSE OR ORGANIC MATERIAL SHALL BE STRIPPED AND REMOVED FROM THE SITE. SUBSEQUENT TO STRIPPING OPERATIONS, THE SUBGRADE SHALL BE PROOFROLLED TO IDENTIFY SOFT ZONES. ANY SOFT ZONE DETECTED SHALL BE REMOVED TO A FIRM SUBGRADE SOILS AND REPLACED WITH COMPACTED SATISFACTORY SOILS TO REACH SUBGRADE LEVEL. UPON THE ACCEPTANCE OF PROOFROLLING OPERATIONS THE SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698, THE STANDARD PROCTOR. BETWEEN OPTIMUM AND 4 PERCENTAGE POINTS ABOVE OF THE OPTIMUM MOISTURE CONTENT. THE EXPOSED SUBGRADE SHALL NOT BE ALLOWED TO DRY OUT PRIOR TO PLACING STRUCTURAL FILL

4. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER FOR COMPACTION TESTING AND INSPECTION OF BERM CONSTRUCTION. 5. DETENTION SYSTEM MUST BE FUNCTIONAL WITH EROSION PROTECTION

ON SIDES AND BOTTOM PRIOR TO ANY PAVING OPERATIONS (INCLUDING SLAB)

6. FOR DETENTION POND, REFER TO PAPE-DAWSON DRAINAGE STUDY DATED MARCH 2021.



THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION (THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. T CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. TH CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

RESPONSIBILITY NOTE

ALL RESPONSIBILITY FOR THE ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF DESIGN.

| N GROVE - PHASE 2 | I PAPE-DAWSON |
|------------------------------|--|
| VALL, ROCKWALL COUNTY, TEXAS | ENGINEERS |
| LENTION POND OUTFALL | FORT WORTH I SAN ANTONIO I AUSTIN I HOUSTON I DALLAS 6500 W FWY, STE 700 I FT. WORTH, TX 76102 I 817.870.3668 |
| | |

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ADAM S. REEVES

98410

18.1.19

6.8.2021

CALL LICENSED ...

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CITY

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| | (A.C.) |
|----------|---------------|
| PLAT NO. | # |
| JOB NO. | 6126300 |
| DATE | June 21 |
| DESIGNER | OEK |
| CHECKED_ | ASR DRAWN OEK |
| SHEET | 18 |

RISER STRUCTURE