

### STORM SYSTEM NOTES

- A. ALL PIPE INSTALLED UNDER THIS PROJECT MUST HAVE AN HS-20 LOADING RATING. CONTRACTOR RESPONSIBLE TO PROVIDE TRENCHING AND BACKFILL TO OBTAIN THIS LOADING AS REQUIRED BY PIPE MANUFACTURER.
- B. ALL HDPE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M 294 AND MP7-97, SUCH AS ADS N-12 SMOOTH WALL HDPE OR APPROVED EQUIVALENT.
- C. ALL CMP TO BE CONTECH TYPE 2, ALUMINIZED CMP, 146a ASTM A760 OR APPROVED EQUAL.
- D. ALL HDPE PIPE SHALL POSSESS MALE AND FEMALE ENDS TO ALLOW OVERLAPPING GASKETED PIPE JOINTS PER AASHTO M294. GASKET MATERIAL SHALL CONFORM TO ASTM F 477. ALL HDPE PIPE SHALL BE CLEARLY MARKED WITH THE FOLLOWING: MANUFACTURERS NAME, NOMINAL PIPE SIZE, AND PRODUCT/EXTRUSION CODE.
- E. HDPE PIPE WITH THE FOLLOWING DEFECTS WILL BE REJECTED FOR INSTALLATION: VARIATION FROM STRAIGHT CENTERLINE, NON-ROUND PIPE, ILLEGIBLE MARKINGS, DEEP OR EXCESSIVE GOUGES OR SCRATCHES ON PIPE WALL, FRACTURES, PUNCTURES, CRACKS PASSING THROUGH WALL, DAMAGED/CRACKED ENDS PREVENTING PROPER SEAL.
- F. ALL PIPE LENGTHS ARE APPROXIMATE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- G. ALL DRAINAGE PIPE SHALL BE HDPE UNLESS OTHERWISE NOTED ON PLANS.
- H. GENERAL CONTRACTOR TO MAINTAIN EXISTING STORM WATER DRAINAGE THROUGH ENTIRE CONSTRUCTION PROCESS.

### PIPE SCHEDULE

- A. EXISTING 30" RCP AT 2.08% SLOPE
- B. EXISTING 24" RCP (FIELD VERIFY SLOPE)
- C. EXISTING 24" RCP AT 1.88% SLOPE
- D. EXISTING 30" RCP OUTFALL (X2) (FIELD VERIFY SLOPE)
- E. PROPOSED 24" HDPE STORM LINE, 210 LINEAR FEET, INSTALL AT 0.29% SLOPE. REFER TO SHEET C3.1 FOR PROFILE
- F. PROPOSED 24" HDPE STORM LINE, 138 LINEAR FEET, INSTALL AT 0.84% SLOPE. REFER TO SHEET C3.1 FOR PROFILE
- G. PROPOSED 30" CPV STORM LINE, 56 LINEAR FEET, INSTALL AT 2.63% SLOPE. REFER TO SHEET C3.1 FOR PROFILE

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY SIZES AND INVERTS, TYPES, AND LOCATIONS SHOWN ON PLANS PRIOR TO BEGINNING ANY WORK. ALL UTILITY WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCY FOUND BETWEEN THE FIELD CONDITIONS, THESE PLANS, AND/OR GOVERNING REGULATIONS.

### STRUCTURE SCHEDULE

- X1. EXISTING CURB INLET  
TOP = 553.24  
THROAT = 552.26  
EX. INVERT OUT = 548.82
- X2. EXISTING OIL WATER SEPARATOR  
RIM = 549.09  
INVERT IN = 537.04  
INVERT OUT = 537.04
- X3. EXISTING HEADWALL  
EX. INVERT OUT = 542.99
- X4. EXISTING JUNCTION BOX  
RIM = 559.24  
INVERT IN (30") = 542.83  
INVERT IN (24") = 542.78  
INVERT OUT (42") = 542.67
- 1. 10" CURB INLET  
TOP = 551.20  
THROAT = 550.12  
INVERT OUT = 546.88  
INLET PER NCTCOG 3RD EDITION WITH CITY OF ROCKWALL REVISIONS
- 2. 10" CURB INLET  
TOP = 549.82  
THROAT = 548.70  
INVERT OUT = 545.53  
INLET PER NCTCOG 3RD EDITION WITH CITY OF ROCKWALL REVISIONS
- 3. STORM JUNCTION BOX  
RIM = 553.86  
INVERT IN (30") = 545.65  
INVERT IN (24") = 545.72  
INVERT OUT = 545.54  
FIELD VERIFY  
SEE DETAIL C1.1-07
- 4. STORM JUNCTION BOX  
RIM = 552.42  
INVERT IN (24") = 544.37  
INVERT IN (24") = 544.92  
INVERT OUT = 544.31  
FIELD VERIFY  
SEE DETAIL C1.1-07
- 5. 10" CURB INLET  
TOP = 553.33  
THROAT = 552.24  
INVERT OUT = 548.35  
INLET PER NCTCOG 3RD EDITION WITH CITY OF ROCKWALL REVISIONS

### KEYED NOTES

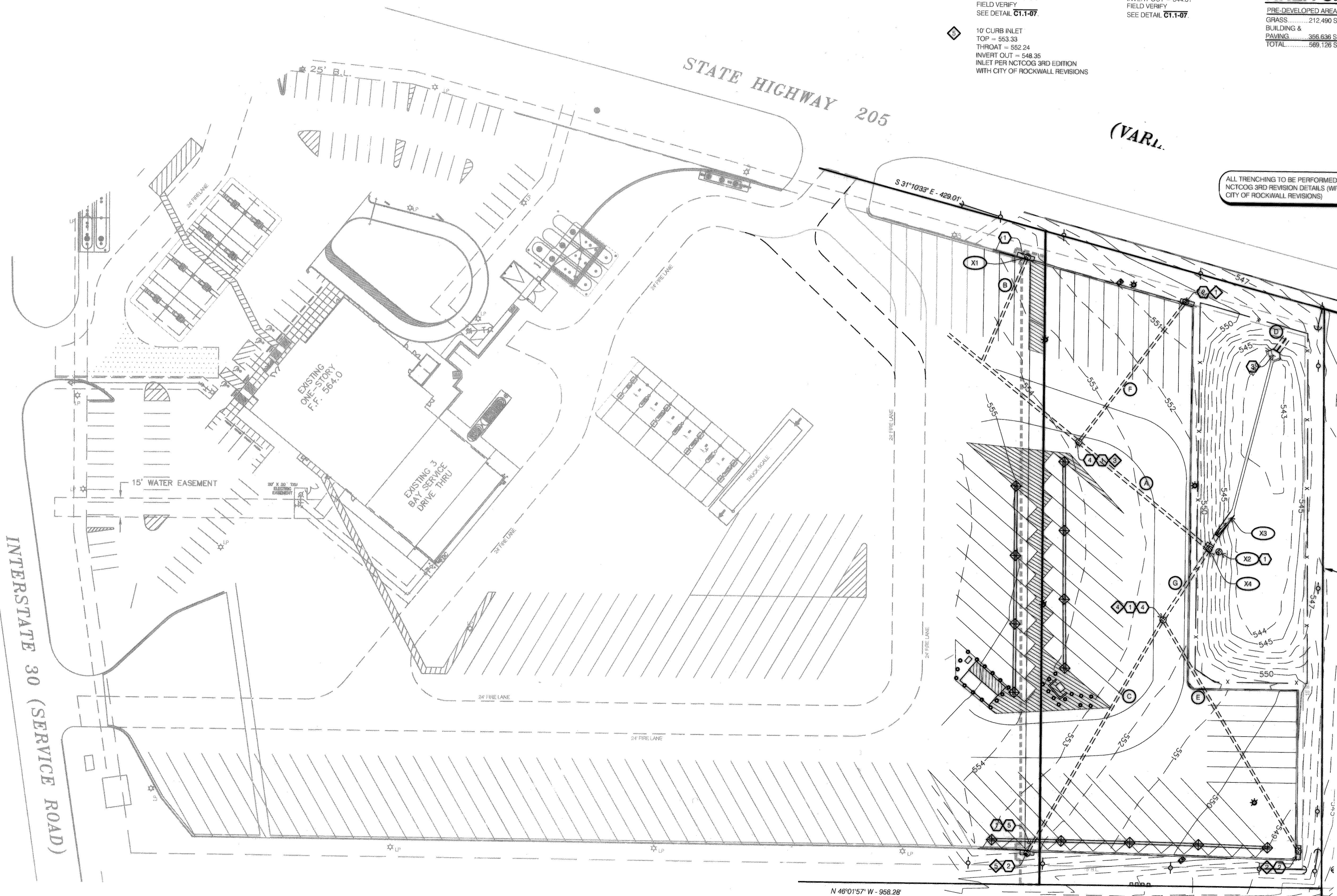
- 1. CONTRACTOR TO FIELD VERIFY INVERT OF EXISTING STORM DRAINAGE MAN-HOLE, CURB INLET, AND OTHER NOTED STORM STRUCTURE PRIOR TO INSTALLATION OF PROPOSED STORM SEWER.
- 2. PROPOSED CURB INLET. SEE NCTCOG 3RD EDITION WITH CITY OF ROCKWALL REVISIONS.
- 3. OUTLET CONTROL STRUCTURE. SEE DETAIL C1.1-06.
- 4. PROPOSED STORM SEWER MANHOLE. SEE DETAIL C1.1-07.
- 5. CONTRACTOR TO EXTEND EXISTING STORM PIPE TO NEW CURB INLET.

### STORM WATER NARRATIVE

STORM WATER DETENTION IS PRESENTLY PROVIDED BY AN ONSITE DETENTION BASIN. THE PROPOSED STORM SEWER PIPES ON SITE HAVE BEEN SIZED FOR THE 100-YEAR STORM EVENT. THE EXISTING ONSITE DETENTION BASIN SIZE WILL BE INCREASED TO PROVIDE ADDITIONAL STORAGE FOR THE INCREASE IN RUNOFF RATE FROM THE PARKING LOT EXPANSION.

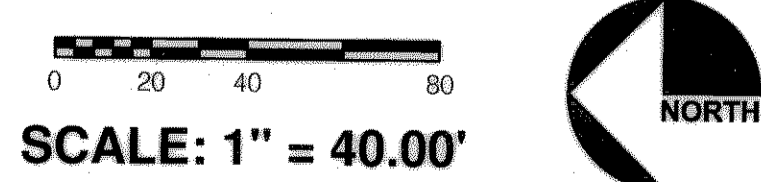
### AREA CALCULATIONS

| PRE-DEVELOPED AREA                 | POST-DEVELOPED AREA                |
|------------------------------------|------------------------------------|
| GRASS.....212,490 S.F.             | GRASS.....140,583 S.F.             |
| BUILDING & PAVING.....356,636 S.F. | BUILDING & PAVING.....428,543 S.F. |
| TOTAL.....569,126 S.F.             | TOTAL.....569,126 S.F.             |



ALL TRENCHING TO BE PERFORMED PER NCTCOG 3RD EDITION DETAILS (WITH CITY OF ROCKWALL REVISIONS)

TO THE BEST OF OUR KNOWLEDGE, WD PARTNERS, HEREBY STATES THAT THIS PLAN IS AS-BUILT/RECORD DRAWINGS. THE INFORMATION PROVIDED IS BASED ON SURVEYING CONDUCTED AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



**CALL BEFORE YOU DIG!**  
TEXAS LAW REQUIRES EXCAVATORS TO NOTIFY THE TEXAS NOTIFICATION SYSTEM AT LEAST TWO (2) WORKING DAYS BUT NOT MORE THAN FOURTEEN (14) CALENDAR DAYS PRIOR TO EXCAVATION

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PROTOTYPE

STORE NUMBER  
49

WD PROJECT NUMBER  
TCATA0968

**C3**

**STORM WATER PLAN**