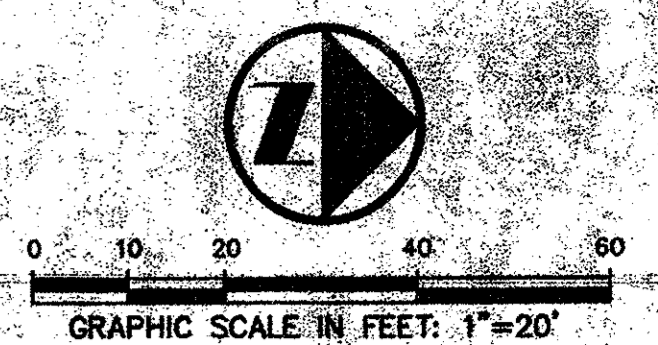


CONTRACTOR TO TAKE STEPS AS REQUIRED TO PROTECT EXISTING TREES AND ROOT SYSTEMS SHOWN ON THIS PLAN TO THE FULLEST EXTENT POSSIBLE. UNLESS TREES THAT ARE MARKED FOR REMOVAL MAINTAIN EXISTING GRADE AS CLOSE AS POSSIBLE UNDER DRIP LINE.



LEGEND

| | |
|----|----------------|
| PH | FIRE HYDRANT |
| PP | POWER POLE |
| LS | LIGHT STANDARD |
| WM | WATER METER |
| WV | WATER VALVE |
| CO | CLEANOUT |
| MH | MANHOLE |
| GM | GAS METER |
| PR | PROPERTY LINE |

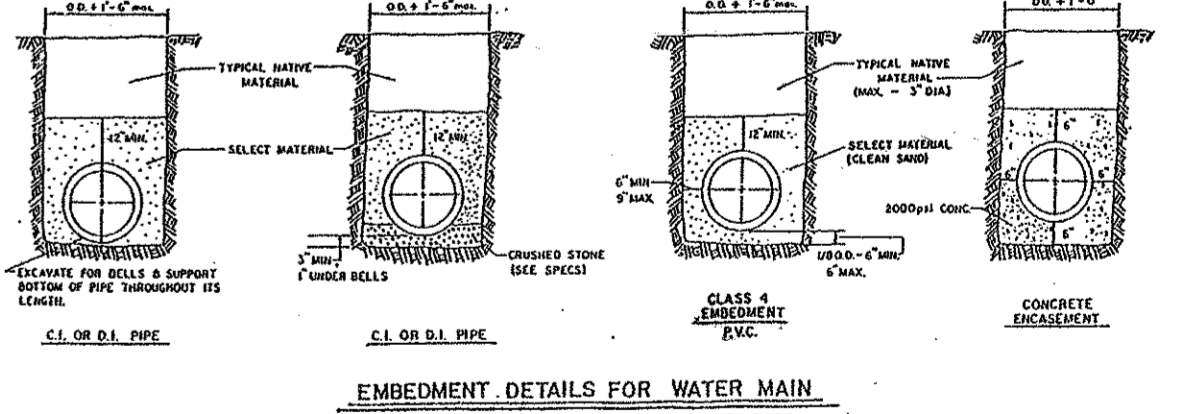
NOTE: SEE DETAIL SHEET FOR WATER & SANITARY SEWER NOTES AND STANDARD DETAILS.

- BENCH MARKS:**
- BM #2: Top nut of FH near west line of site 675± north of southwest corner of site. Elev. 601.31
 - BM #3: Cut "x" in walk on outside of curved drive near southeast corner of lower school. Elev. 586.06
 - BM #4: "□" cut - west end conc. headwall, north side Spring Valley, at southeast corner campus. Elev. 578.47
 - BM #5: "□" cut in walk at southeast corner, intersection of drive along south side of preschool building and north-south drive into site from Spring Valley. Elev. 588.20
 - BM #6: "□" cut at southwest corner basketball courts, southeast of gymnasium. Elev. 597.48
 - BM #7: "□" cut, southeast corner transformer pad, northeast of tennis courts. Elev. 601.42
 - BM #8: Top nut of FH at west end of drive along north side of campus. Elev. 609.80
 - BM #9: "□" cut at NEC of electric MH on north side cafeteria, south side of drive along north side of campus. Elev. 602.80
 - BM #10: "□" cut on conc. step near northwest corner of upper school. Elev. 598.85
 - BM #11: "□" cut on conc step on walk exiting west side of library. Elev. 596.44
 - BM #12: "□" cut at intersection of walk along west side lower school and walk along south side lower school. Elev. 587.78

CONTACT:
MR. ED KEAH, OPERATING SUPPORT SECTION
DISTRIBUTION DEPARTMENT, 2 WORKING
DAYS PRIOR TO EXCAVATING T.U. ELECTRIC
FACILITIES.
PHONE: (214)698-7239 OR (214)698-7207

CAUTION!
UNDERGROUND TELEPHONE
IN AREA - CONTACT S.W.B.T.
48 HOURS PRIOR TO CONSTRUCTION
PHONE: 1-800-315-0440

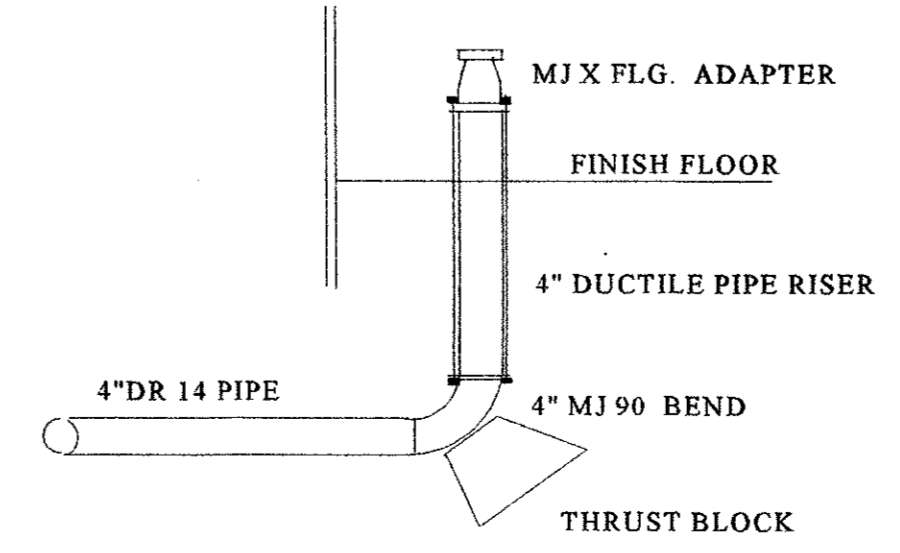
CAUTION!
GAS LINE IN AREA-CONTACT
LONE STAR GAS 48 HOURS
PRIOR TO CONSTRUCTION
PHONE: (214)263-DIGG



SCALE: 1" = 20'

UNDERGROUND FIRE LINE GENERAL NOTES

1. ALL UNDERGROUND MATERIALS AND INSTALLATION TO CONFORM TO N.F.P.A. #24 AND THE TOWN OF ADDISON.
2. ALL PIPE SHALL BE C-900 DR 14 PVC. FIRE RISER INTO BUILDING SHALL BE DUCTILE IRON PIPE, ALL EXPOSED NUTS, BOLTS AND PIPE SHALL BE TAR COATED. POLY WRAP FITTINGS AND DUCTILE PIPE.
3. EMBEDMENT, TRENCH BACKFILL AND CONCRETE THRUST BLOCKS SHALL CONFORM TO N.F.P.A. #24, THE TOWN OF ADDISON AND NTCOG SPECIFICATIONS.
4. ALL NEW UNDERGROUND PIPING TO BE HYDROSTATICALLY TESTED AT 200 PSIG FOR A MINIMUM OF 2 HOURS.
5. ALL NEW UNDERGROUND TO BE FLUSHED IN ACCORDANCE WITH N.F.P.A. #24.
6. ALL PIPING SHALL BE U.L. LISTED FOR FIRE PROTECTION.



Riser detail

WATER AND SANITARY SEWER GENERAL NOTES

1. ALL WATER MAINS SHALL BE PVC C900, DR 18, CLASS 150.
2. WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
3. ALL WATER MAINS UNLESS OTHERWISE NOTED SHALL HAVE A MINIMUM COVER OF 48" BELOW FINISHED GRADE.
4. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
5. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:
 - (A) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
 - (B) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
 - (C) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
 - (D) WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
 - (E) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS (A) OR (D) OF THIS PARAGRAPH.
 - (F) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY TWO FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS (C) OR (D).

GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT, AND TOWN OF ADDISON STANDARD CONSTRUCTION SPECIFICATIONS.
2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS INCLUDING ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS AND THE CITY STANDARDS FOR CONSTRUCTION AND ANY OTHER APPLICABLE STANDARD AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATION PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT THE ACTUAL LOCATION NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
- 5.2 MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE. ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.

STA 0+75.00 LINE "ST-1"
END 6" SANI SEWER AT A
POINT 1' OFF BUILDING FACE
INSTALL:
1-DOUBLE CLEAN-OUT
1-6" CAP
FL 6"=590.00
SEE MEP PLANS FOR
CONNECTION.

STA 0+00 LINE "SS-1"
BEGIN 6" SANI SEWER
CONNECT TO EXISTING
10" SANI SEWER
FL 10"=588.80
FL 6"=588.97

INSTALL:
1-8"x4" TAPPING SLEEVE
1-4" DOUBLE CHECK VALVE
ASSEMBLY W/VAULT
1-4" FIRE SERVICE
1-6" RISER TO 1' A.F.F.
SEE MEP PLANS FOR
CONNECTION

STA 0+67.00 LINE "SS-1"
INSTALL:
1-6" 90° WYE CONNECTION
1-CLEAN-OUT
FL 6"=589.96

INSTALL:
1-8"x2" TAPPING SLEEVE
1-2" WATER SERVICE
(DOMESTIC)
1-2" WATER METER
CONNECT TO EXISTING
8" WATER LINE
1" OFF BUILDING FACE
SEE MEP PLANS FOR
CONNECTION

*Magaly
reworking jobs*

*Et to mck
PCVA*

CONCESSION BUILDING GREENHILL SCHOOL

| | | |
|---|---------|-----------|
| SOUTHERN SCR-0372 MECHANICAL PLUMBING INC 400 SOUTH ASTON SUNNYVALE, TEXAS 75182 972-226-2460 FAX 972-226-2480 | | F1 |
| TITLE: UNDERGROUND FIRE LINE | | |
| RME # 0454 HERBERT G WEINSTEIN <i>Herbert G Weinstein</i> | | |
| PROJECT: GREENHILL SCHOOL CONCESSION BLDG. 4141 SPRING VALLEY ROAD ADDISON, TEXAS 75001 | | |
| REVISIONS | | |
| DATE: July 24, 2001 | BY: EWS | JOB# 732 |
| PROJECT # 01068610 | | |