



**LEGEND:**

• 38.00 FG	PROPOSED SPOT ELEVATIONS (FINISH)	---	SWALE
• MATCH (95.19)	MATCH EXISTING ELEVATIONS	---	
TC ON	TOP OF CONCRETE	---	
FL	FLOW LINE, CURB	---	
INV	INVERT	---	
FG	FINISH GRADE	---	
TBC	TOP OF BASE COURSE	---	
TC	TOP OF CURB	---	
TG	TOP OF GRATE	---	
TA	TOP OF ASPHALT	---	
←	FLOW ARROW	---	
		---	STORM DRAIN LINE
		---	PROPOSED MAJOR CONTOUR
		---	PROPOSED MINOR CONTOUR
		---	EXISTING MAJOR CONTOUR
		---	EXISTING MINOR CONTOUR

**GRADING AND DRAINAGE NARRATIVE**

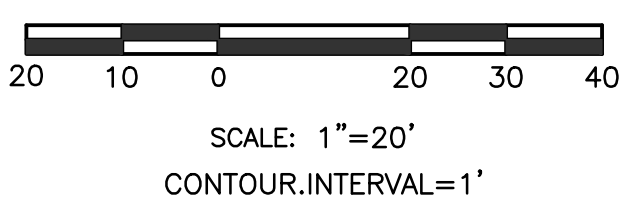
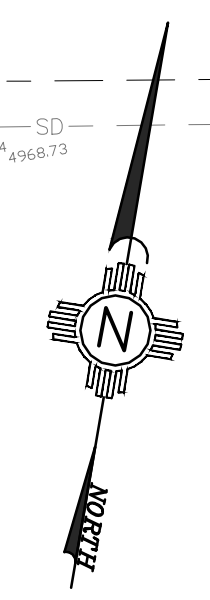
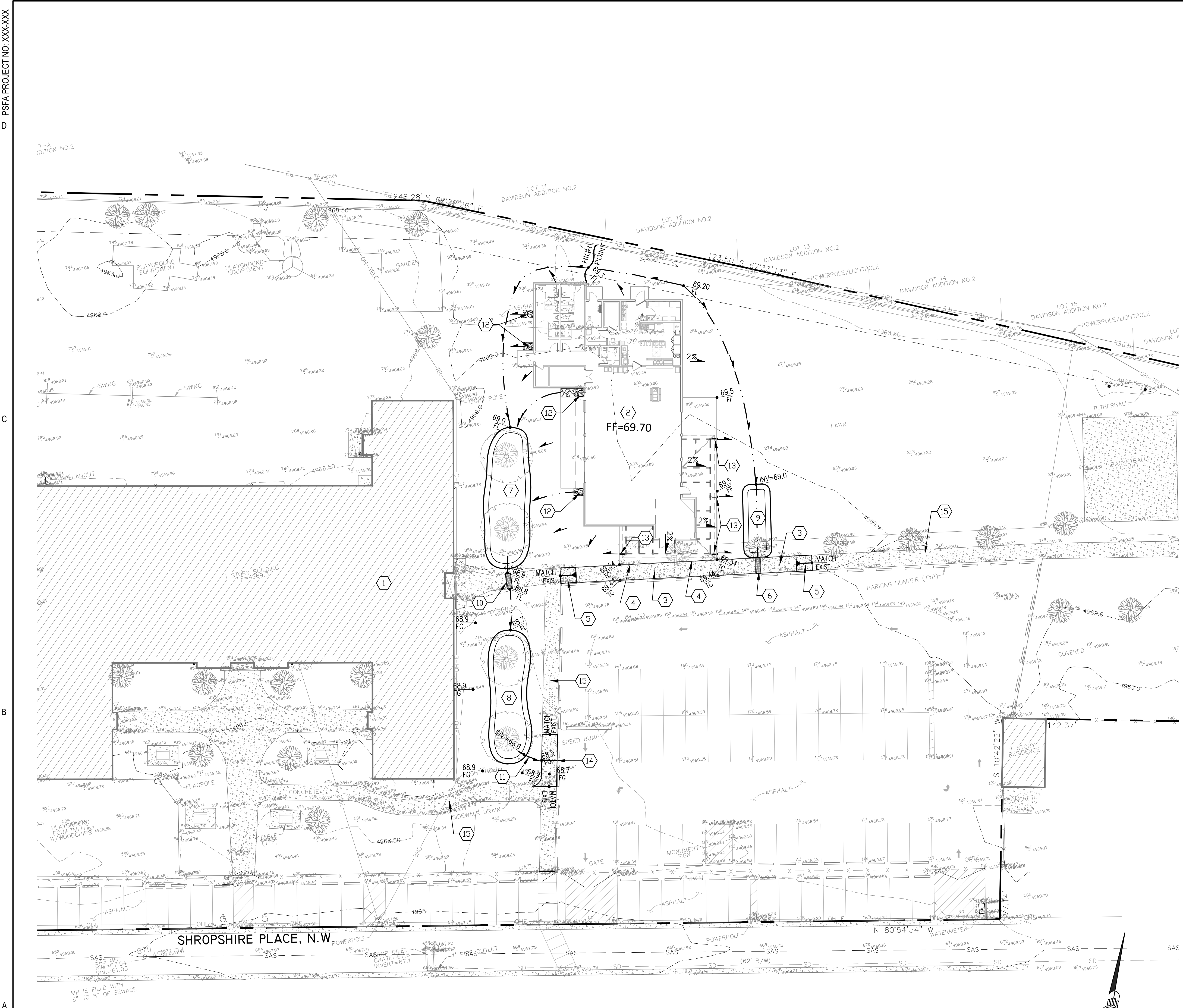
THE EXISTING PROPERTY FOR ST. THERESE CATHOLIC SCHOOL IS LOCATED AT 311 SHROPSHIRE PL. NW. THE SITE IS ACCESSED FROM EAST BOUND LANE OF SECOND STREET NE. THE SITE CURRENTLY CONSISTS OF A VACANT LOT WITH NO DEVELOPMENT. THE SITE IS BOUND BY CANDELARIA BLVD. ON THE NORTH SIDE, RESIDENTIAL DEVELOPMENT ON THE SOUTH AND NORTH SIDE, AN SECOND STREET ON THE EAST SIDE. THE LAND SLOPES MILDLY FROM THE NORTHEAST TO THE SOUTHWEST CORNER OF THE SITE. THE PROPOSED BUILDING WILL BE CONSTRUCTED NEAR THE NORTH END OF THE SITE WITH AN ASPHALT PARKING LOT LOCATED ON THE SOUTH OF THE PROPOSED BUILDING.

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE NEW SIDEWALK WITH CULVERTS AND RUNDOWNS ALLOWING STORMWATER INTO PROPOSED WATER HARVESTING AREAS. THESE WATER HARVESTING AREAS WILL BE USED TO MANAGE THE 90TH PERCENTILE STORM EVENTS (REQUIRED VOLUME =  $(0.34 \text{ in.} \times 41,151 \text{ SF})/12 = 1166 \text{ CF}$ ). THE PROPOSED WATER HARVEST AREAS VOLUME IS APPROXIMATELY 1200 CUBIC FEET, WHICH IS GREATER THAN THE REQUIRED FIRST FLUSH VOLUME OF 1166 CUBIC FEET. ALL ROOF DRAINAGE AND PROPOSED ASPHALT PARKING AREAS WILL DISCHARGE INTO WATER HARVEST AREAS LOCATED AT THE WEST SIDE OF THE PROJECT SITE.

THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE AS PER FEMA MAPS.

**KEYED NOTES**

- 1 EXISTING BUILDING TO REMAIN.
- 2 PROPOSED BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 3 NEW SIDEWALK WITH 6" TURN DOWN EDGE. REFER TO ARCHITECTURAL SHEETS FOR CONTROL JOINT PATTERN DETAILS.
- 4 SAWCUT NEW SIDEWALK TO CLEAN STRAIGHT EDGE AND MATCH WITH NEW CONCRETE.
- 5 NEW HANDICAP RAMP, SEE CITY OF ALBUQUERQUE STANDARD DRAWING 2418. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 6 NEW SIDEWALK CULVERT, SEE SHEET C-501 FOR DETAIL. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT PRIOR TO CONSTRUCTION. INV (IN) = 69.00 INV (OUT) = 68.94 FIELD VERIFY
- 7 WATER HARVEST FEATURE #1, INV=68.3. SEE SHEET C-501 FOR DETAIL.
- 8 WATER HARVEST FEATURE #2, INV=67.75. SEE SHEET C-501 FOR DETAIL.
- 9 WATER HARVEST FEATURE #3, INV=68.5. SEE SHEET C-501 FOR DETAIL.
- 10 NEW SIDEWALK CULVERT, SEE SHEET C-501 FOR DETAIL. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT PRIOR TO CONSTRUCTION. INV (IN) = 68.50 INV (OUT) = 68.40 FIELD VERIFY
- 11 OVERFLOW SWALE GRADE TO DRAIN.
- 12 NEW ROOF DRAIN LOCATIONS.
- 13 NEW PORCH DOWNSPOUT LOCATIONS.
- 14 NEW OVERFLOW SECTION OF SIDEWALK. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT ELEVATION IN PARKING LOT PRIOR TO CONSTRUCTION.
- 15 EXISTING SIDEWALK TO REMAIN.



**A1 GRADING AND DRAINAGE PLAN**  
SCALE: 1"=20'-0"

**GRADING AND DRAINAGE PLAN  
NEW MULTI-PURPOSE BUILDING  
for ST THERESE CATHOLIC SCHOOL**

date: 6-11-19
drawn by: MEC
checked by: VAM
revisions:

**MEC MILLER ENGINEERING CONSULTANTS**  
Engineers • Planners  
3500 COMANCHE, NE  
BUILDING F  
ALBUQUERQUE, NM 87107  
(505)988-7500  
(505)988-3800 (FAX)  
WWW.MECNM.COM

**C-101**

project no. 18-050

**VIGIL & ASSOCIATES**  
ARCHITECTURAL GROUP, P.C.  
WWW.VA-ARCHITECTS.COM



T:\Clients\VIGIL & ASSOCIATES\ST THERESE CATHOLIC SCHOOL\Acad\Sheets\C-101\_LG & D Plan\_01-02-19.dwg, C-101\_LG & D Plan, 6/17/2019 2:43:30 PM

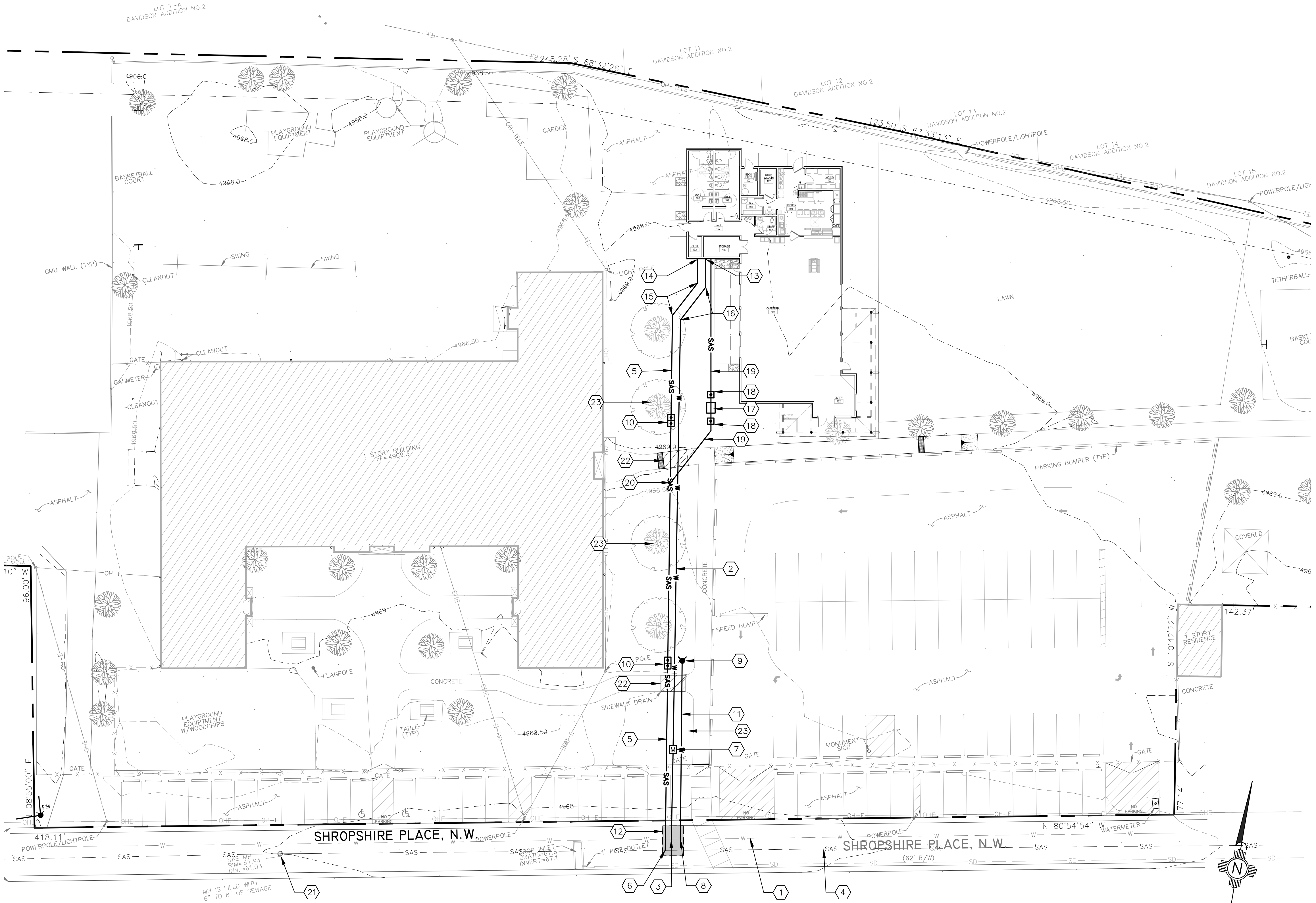


LEGEND:

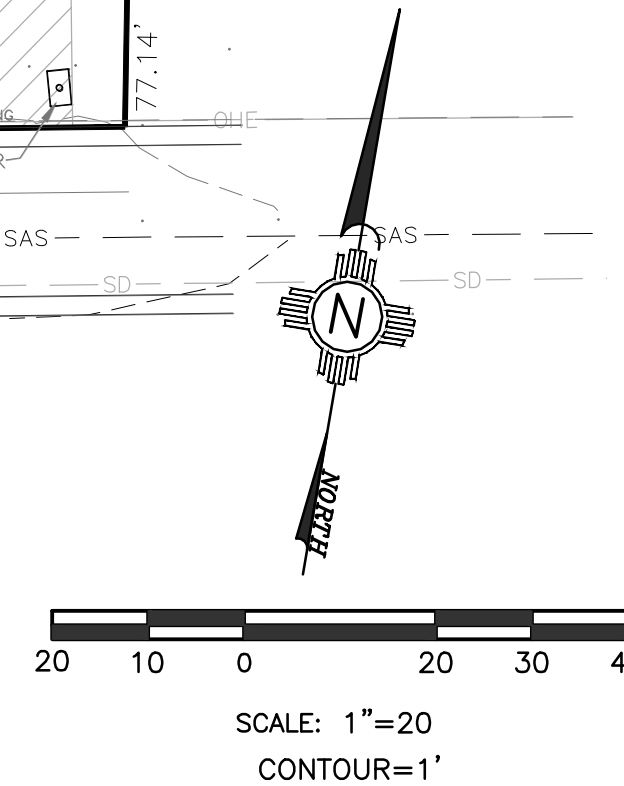
- W — PROPOSED WATER SERVICE LINE
- SAS — PROPOSED SANITARY SEWER SERVICE LINE
- W — EXISTING WATER SERVICE LINE
- S — EXISTING SANITARY SEWER SERVICE LINE
- PROPOSED CLEANOUT
- ⊠ PROPOSED WATER METER
- ⊙ PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE

KEYED NOTES:

1. EXISTING 6" WATER MAIN.
2. NEW 2" DOMESTIC WATER SERVICE LINE.
3. CONNECT NEW 1 1/2" DOMESTIC WATER LINE TO EXISTING 6" WATER LINE AS PER ABCWJA STANDARD DWG. 2301. CONTRACTOR SHALL COORDINATE WITH CITY OF ALBUQUERQUE UTILITY DEPARTMENT PRIOR TO CONSTRUCTION.
4. EXISTING 8" SANITARY SEWER LINE.
5. NEW 4" SANITARY SEWER SERVICE LINE MIN. SLOPE 2% AS PER C.O.A. STANDARD DWG. 2125.
6. CONNECT NEW 4" SANITARY SEWER SERVICE LINE TO EXISTING 8" SANITARY SEWER SERVICE MAIN LINE AS PER C.O.A. STANDARD DWG. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION AND COORDINATE WITH ABCWJA PRIOR TO CONSTRUCTION.
7. NEW 1 1/2" WATER METER. CONTRACTOR SHALL COORDINATE WITH BUILDING PLUMBING CONTRACTOR FOR LOCATION, INVERT AND PIPE SIZE PRIOR TO CONSTRUCTION.
8. CONNECT NEW 6" WATER LINE TO EXISTING 6" WATER LINE.
9. NEW FIRE HYDRANT.
10. NEW DOUBLE CLEANOUT SEE DETAIL SHEET C-502.
11. NEW 6" WATER LINE TO NEW FIRE HYDRANT.
12. SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE, REMOVE, DISPOSE AND REPLACE EXISTING ASPHALT AS NECESSARY TO INSTALL SANITARY SEWER SERVICE OR DOMESTIC WATER LINES. MATCH EXISTING ASPHALT SECTION OF ASPHALT, BASE COURSE AND SUBGRADE PREP. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM ABCWJA.
13. NEW 2" DOMESTIC WATER SERVICE LOCATION TO PROPOSED BUILDING. SEE MECHANICAL PLANS FOR INVERT AND EXACT LOCATION PRIOR TO CONSTRUCTION.
14. NEW 4" SEWER LINE SERVICE LOCATION TO PROPOSED BUILDING. SEE MECHANICAL PLANS FOR INVERT AND EXACT LOCATION PRIOR TO CONSTRUCTION.
15. NEW 4" X 4" X 22.5' SEWER LINE BEND.
16. NEW 2" X 2" X 22.5' WATER LINE BEND.
17. NEW GREASE TRAP SEE MECHANICAL PLANS FOR INVERT AND EXACT LOCATION PRIOR TO CONSTRUCTION.
18. NEW SINGLE CLEANOUT SEE DETAIL SHEET C-502.
19. NEW 3" GREASE DRAIN PIPING.
20. NEW 4" X 3" X 4" SANITARY SEWER WYE IN ACCORDANCE WITH C.O.A. STANDARD DRAWINGS AND SPECIFICATIONS.
21. EXISTING SANITARY SEWER MANHOLE. RIM ELEV.=67.94 INV.=61.03
22. EXISTING CONCRETE TO BE REMOVED AND REPLACED.
23. EXISTING LANDSCAPING TO BE REMOVED AND REPLACED.



A1 SITE UTILITY PLAN SCALE: 1"=20'-0"



**MEC** MILLER ENGINEERING CONSULTANTS  
 Engineers • Planners  
 3500 COMANCHE, NE  
 BUILDING F  
 ALBUQUERQUE, NM 87107  
 (505)888-7500  
 (505)888-3900 (FAX)  
 WWW.MECNM.COM

**SITE UTILITY PLAN**  
**NEW MULTI-PURPOSE BUILDING**  
 for ST THERESE CATHOLIC SCHOOL

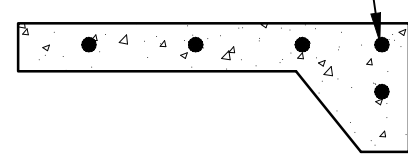
date: 1-9-19
drawn by: V&A
checked by: RRV
revisions:

C-102

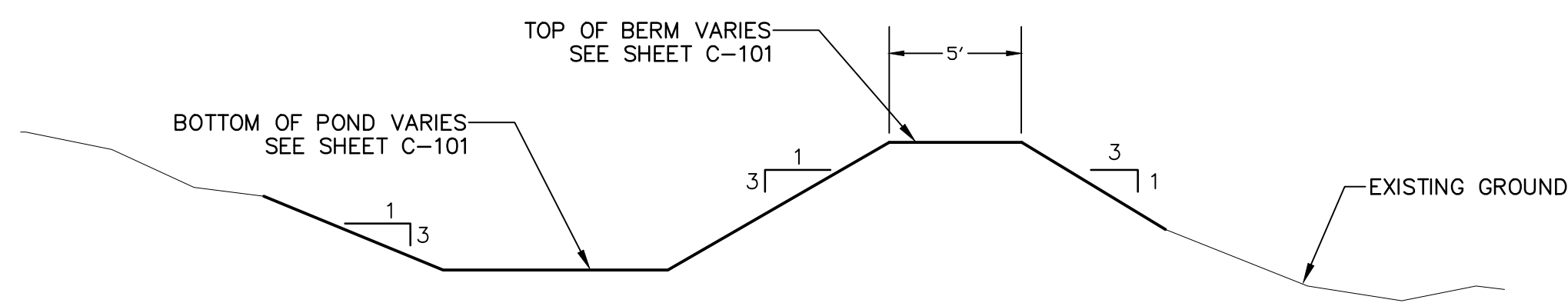
project no. 18-007



TERMINATE ALL CONCRETE WORK WITH 8" MIN. TURN DOWN EDGE WITH 2 - #4 CONTINUOUS REBAR REINFORCEMENT SEE ARCHITECTURAL FOR DIMENSIONS

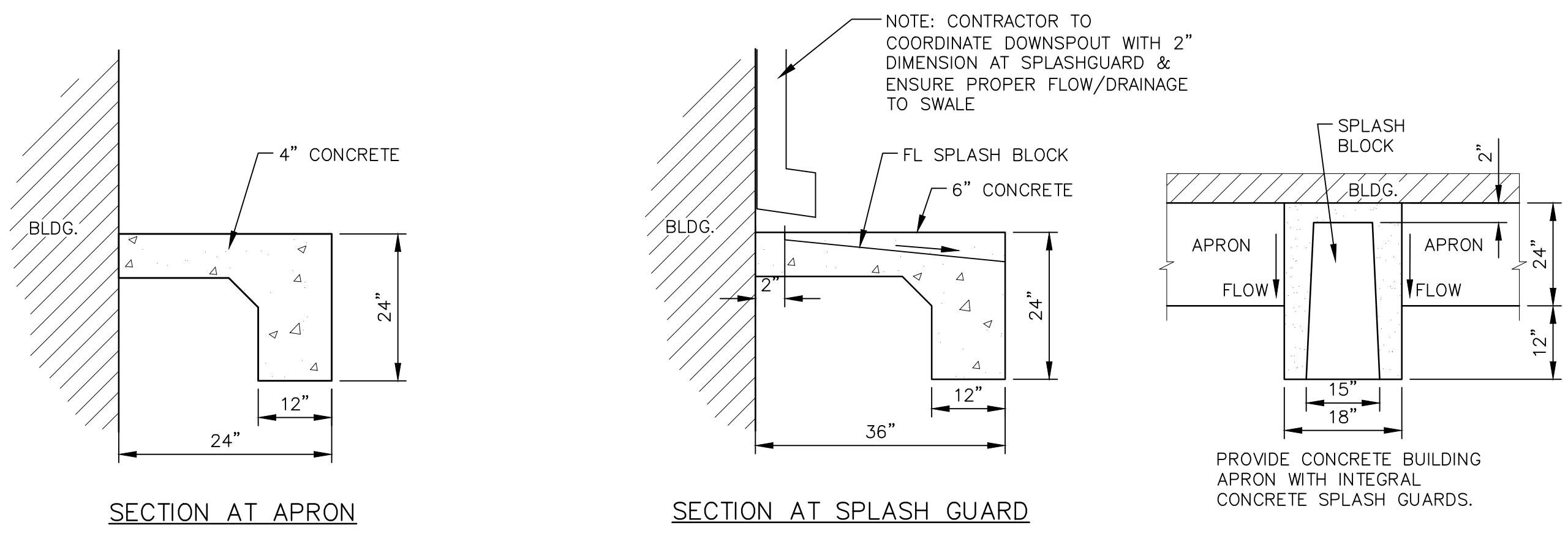


**C1** NEW THICKENED EDGE DETAIL  
SCALE: NOT TO SCALE

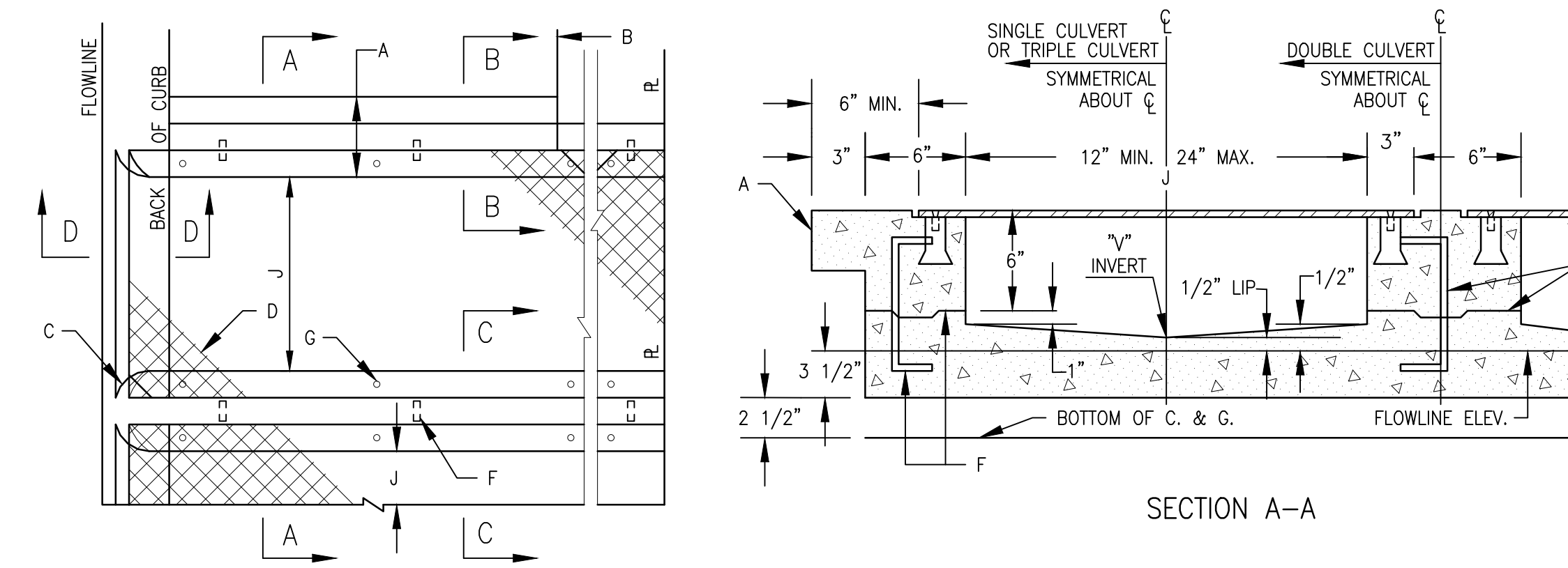


COMPACT BERM/POND AREAS TO 95% MAX. DRY DENSITY

**B1** TYPICAL WATER HARVEST AREA SECTION  
SCALE: NOT TO SCALE

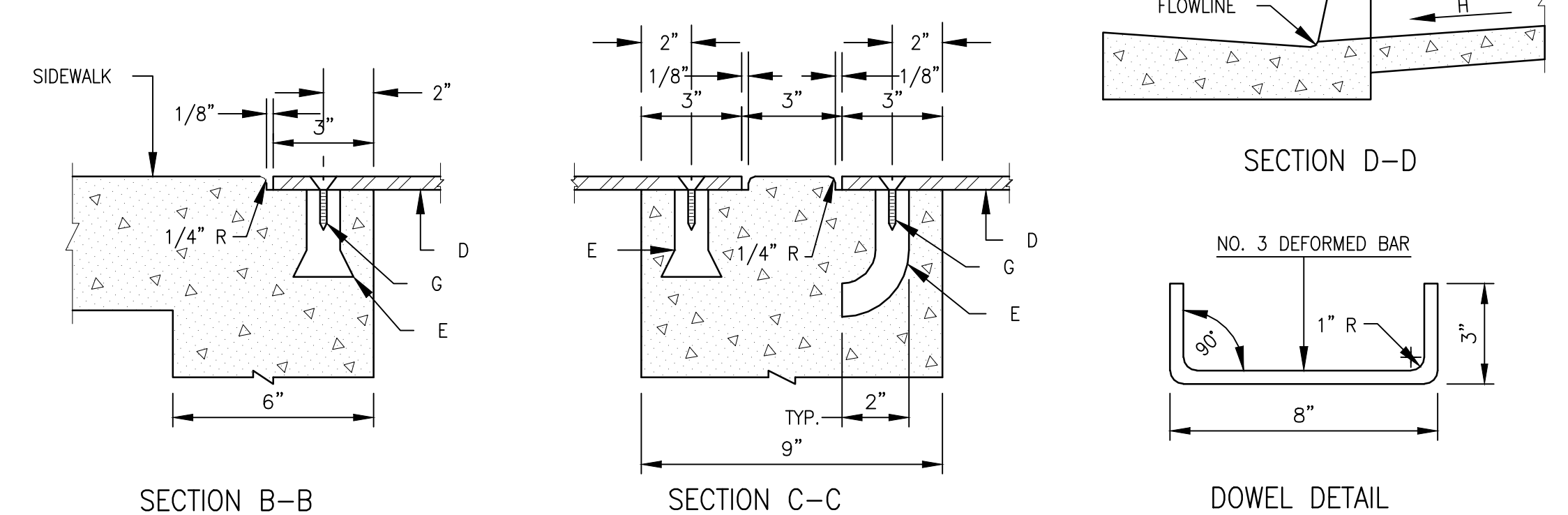


**A1** CONCRETE APRON AND SPLASHGUARD DETAILS  
SCALE: NOT TO SCALE



PLAN SINGLE AND OR MULTIPLE CULVERT

SECTION A-A



SECTION B-B

SECTION C-C

DOWEL DETAIL

**GENERAL NOTES:**

1. PLACING OF DRAIN THRU EXIST. SIDEWALK AND CURB & GUTTER REQUIRES THAT ENTIRE SIDEWALK AND C & G STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
2. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
3. THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
5. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
6. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H. MACHINE SCREW. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
7. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

**SIDEWALK CULVERT CONSTRUCTION NOTES:**

- A. MATCH NEAREST CONTROL JOINT, INSTALL 1/2" EXPANSION JOINT.
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADIUS (TYPICAL).
- D. 3/8" CHECKERED STEEL PLATE (PRINT PER NOTE 7, ABOVE. FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED HEAD MULTI-SEE II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM OF 2 PER SIDE AND ONE WITH 6" OF EACH END.
- E. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1/2" MINIMUM FROM FACE OF CONCRETE.
- F. 3/8" - 16 x 1 1/2" COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.
- G. SLOPE 1/2" PER FT. MIN.
- H. DRAIN WIDTH PER PLAN (12", MIN., 24" MAX.).

**A4** SIDEWALK CULVERT DETAIL  
SCALE: NOT TO SCALE

**MEC** MILLER ENGINEERING CONSULTANTS  
Engineers • Planners  
3500 COMANCHE, NE  
BUILDING F  
ALBUQUERQUE, NM 87107  
(505)888-7500  
(505)888-3900 (FAX)  
WWW.MECNM.COM

MISCELLANEOUS DETAILS  
NEW MULTI-PURPOSE BUILDING  
for ST THERESE CATHOLIC SCHOOL

date: 1-9-19
drawn by: V&A
checked by: RRV
revisions:





**MISCELLANEOUS DETAILS**  
**NEW MULTI-PURPOSE BUILDING**  
 for ST THERESE CATHOLIC SCHOOL

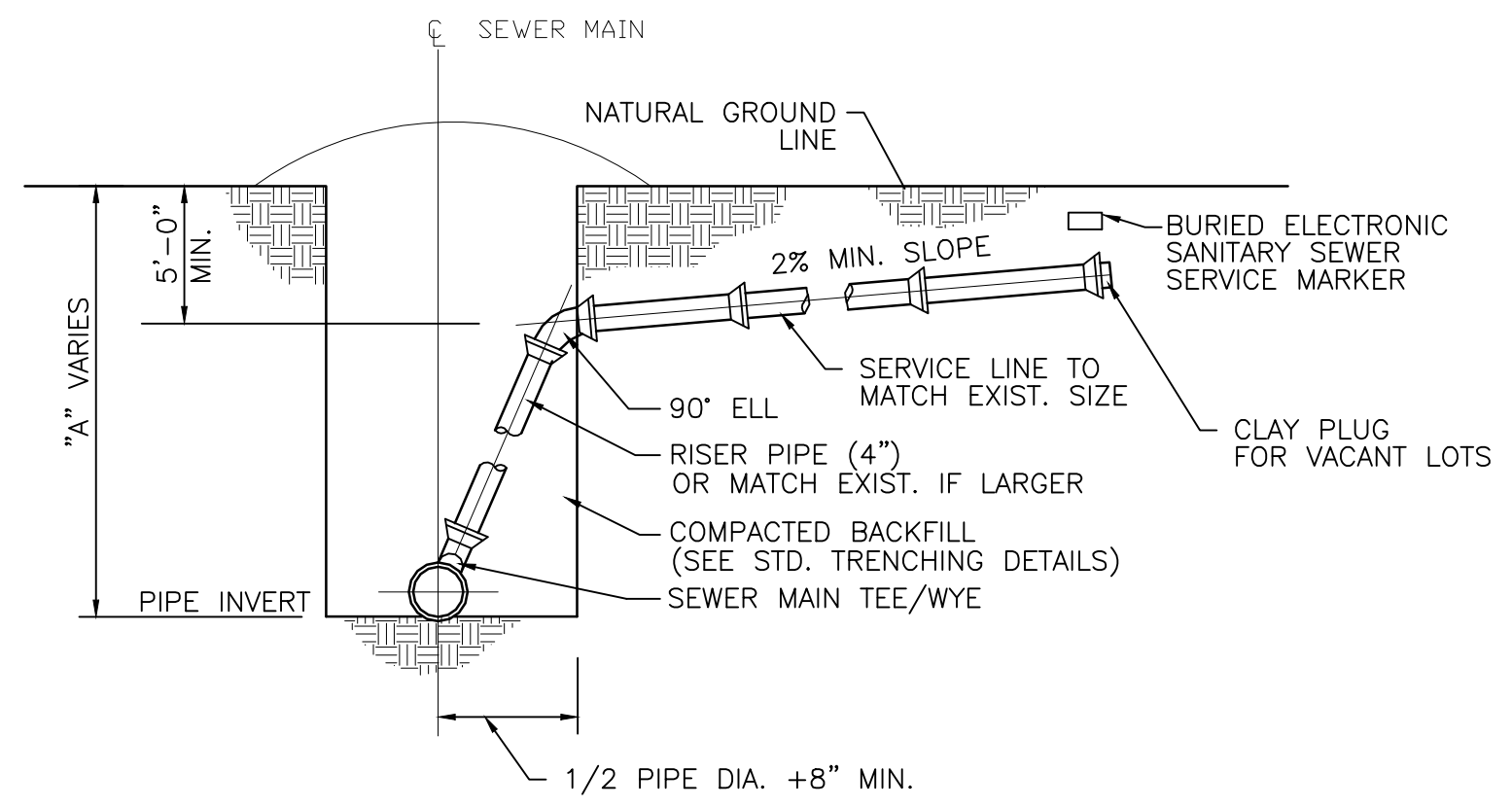
date: 1-9-19
drawn by: V&A
checked by: RRV
revisions:

**C-502**

project no. 18-007

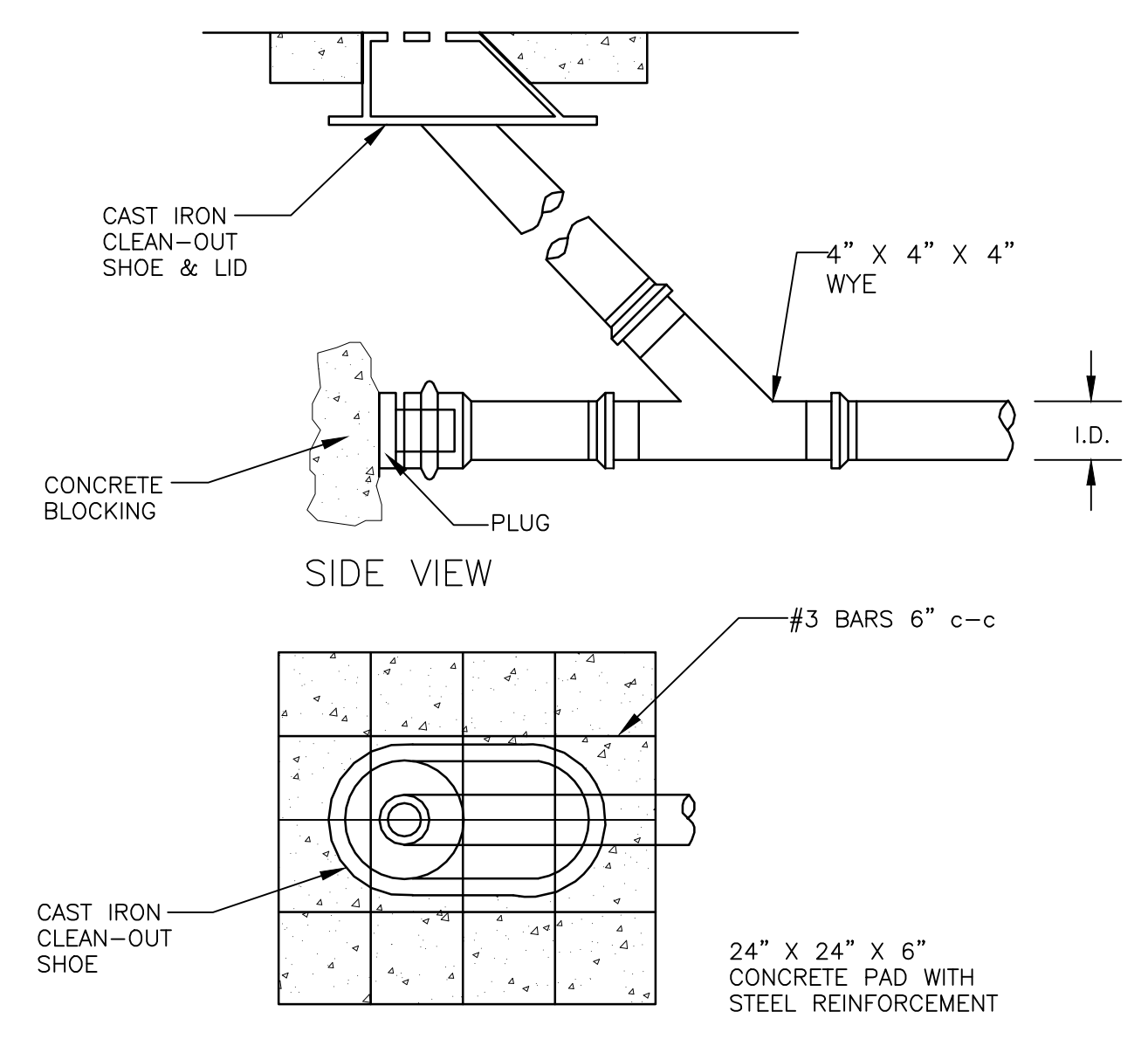
**MILLER ENGINEERING CONSULTANTS**  
 Engineers • Planners  
 3500 COMANCHE, NE  
 BUILDING F  
 ALBUQUERQUE, NM 87107  
 (505) 888-7500  
 (505) 888-3800 (FAX)  
 WWW.MECNM.COM

PSFA PROJECT NO. XXX-XXX  
 T:\Clients\VIGIL & ASSOCIATES\ST THERESE CATHOLIC SCHOOL\Acad\Sheets\Misc\Details\_01-08-19.dwg C-502\_Misc\_Details\_01-08-19\_6/17/2019 2:53:51 PM

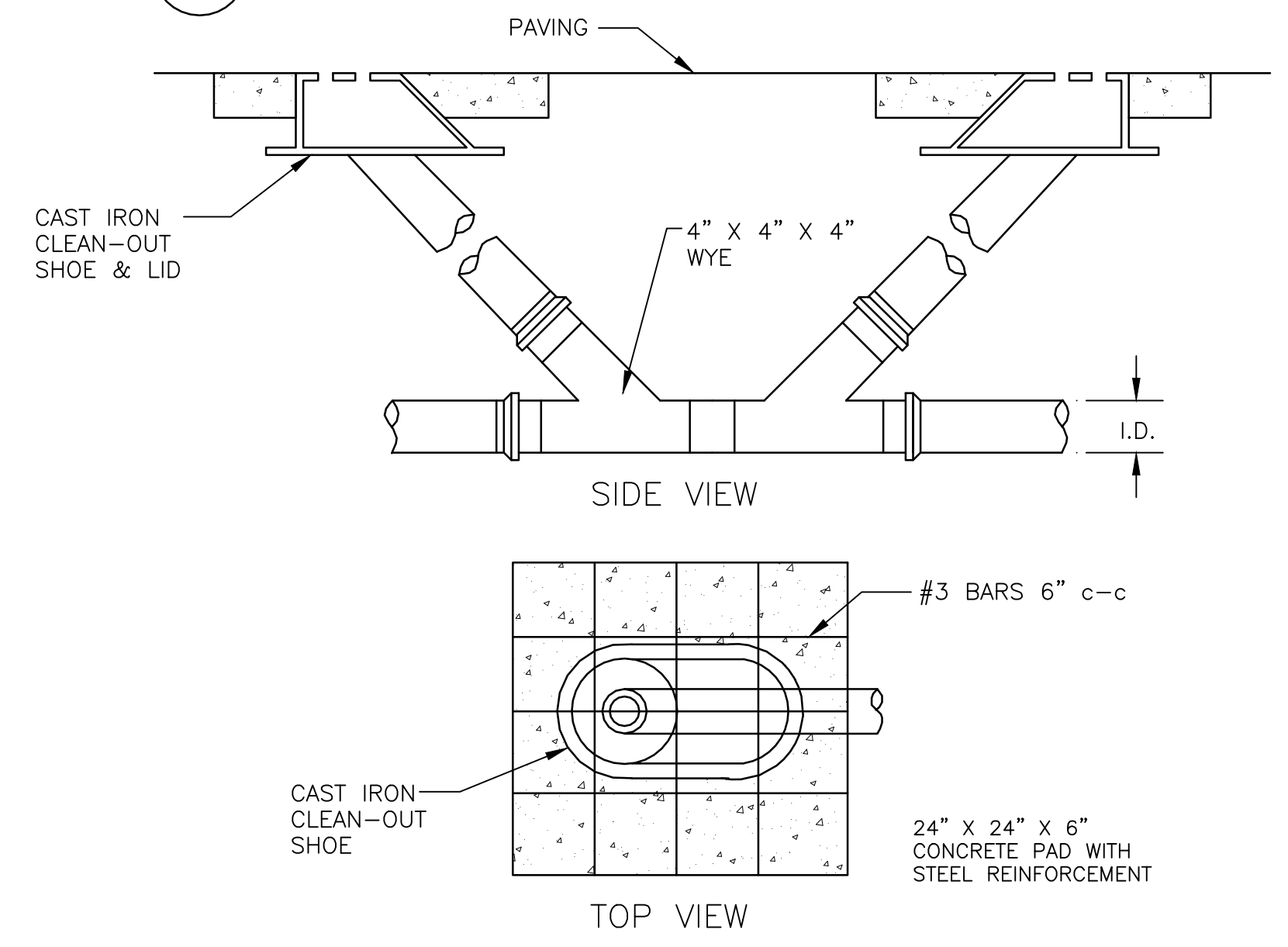


**NOTES:**  
 WHEN "A" IS LESS THAN 7'-0", DELETE RISER PIPE, USE 45° ELL IN PLACE OF 90° ELL, TURN SEWER MAIN TEE TOWARD SERVICE SIDE AT A 45° AND USE 1 CU. FT. CONC. BLOCKING AT TEE.

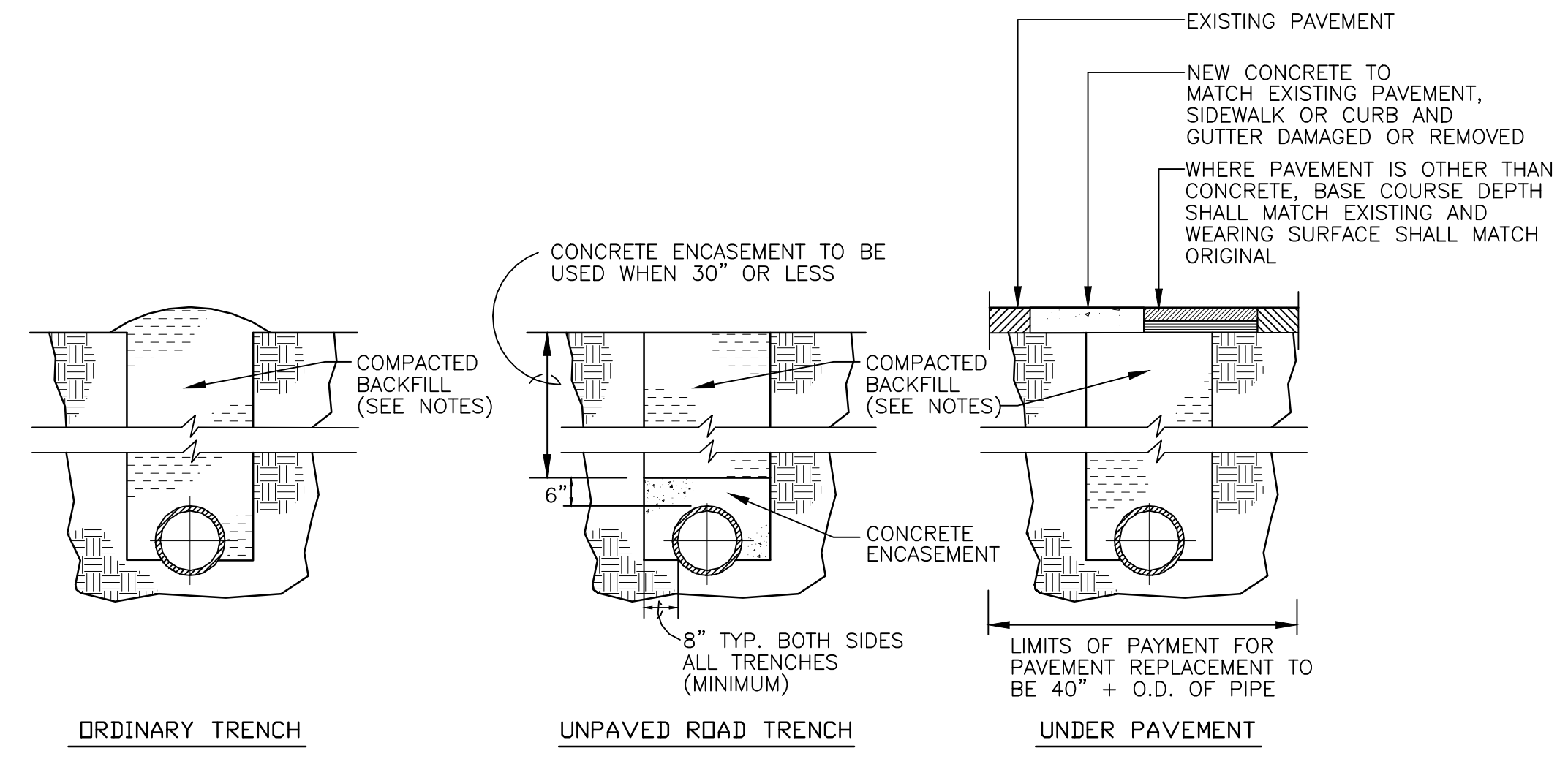
**C1** TYPICAL SEWER SERVICE CONNECTION DETAIL  
SCALE: NOT TO SCALE



**B1** TYPICAL SINGLE SAS CLEAN-OUT  
SCALE: NOT TO SCALE



**A1** TYPICAL DOUBLE SAS CLEAN-OUT  
SCALE: NOT TO SCALE



**ORDINARY TRENCH**  
**NOTES:**  
 BACKFILL IN AREAS OTHER THAN STREETS, ALLEYS AND DRIVEWAYS SHALL BE COMPACTED TO AT LEAST THE NATURAL DENSITY OF THE UNDISTURBED MATERIAL.

**UNPAVED ROAD TRENCH**  
**NOTES:**  
 BACKFILL IN UNPAVED STREETS, ALLEYS, AND DRIVEWAYS SHALL BE COMPACTED TO 90% COMPACTION AS DETERMINED BY AASHTO T-180

**UNDER PAVEMENT**  
**NOTES:**  
 BACKFILL SHALL BE COMPACTED TO 90% WITHIN 12" OF THE SUBGRADE SURFACE AND THE TOP 12" SHALL BE COMPACTED TO 95% COMPACTION AS DETERMINED BY AASHTO T-180

**NOTE:**  
 SEE PIPE BEDDING REQUIREMENTS IN SPECS.

**A2** TYPICAL SEWER TRENCH DETAILS  
SCALE: NOT TO SCALE