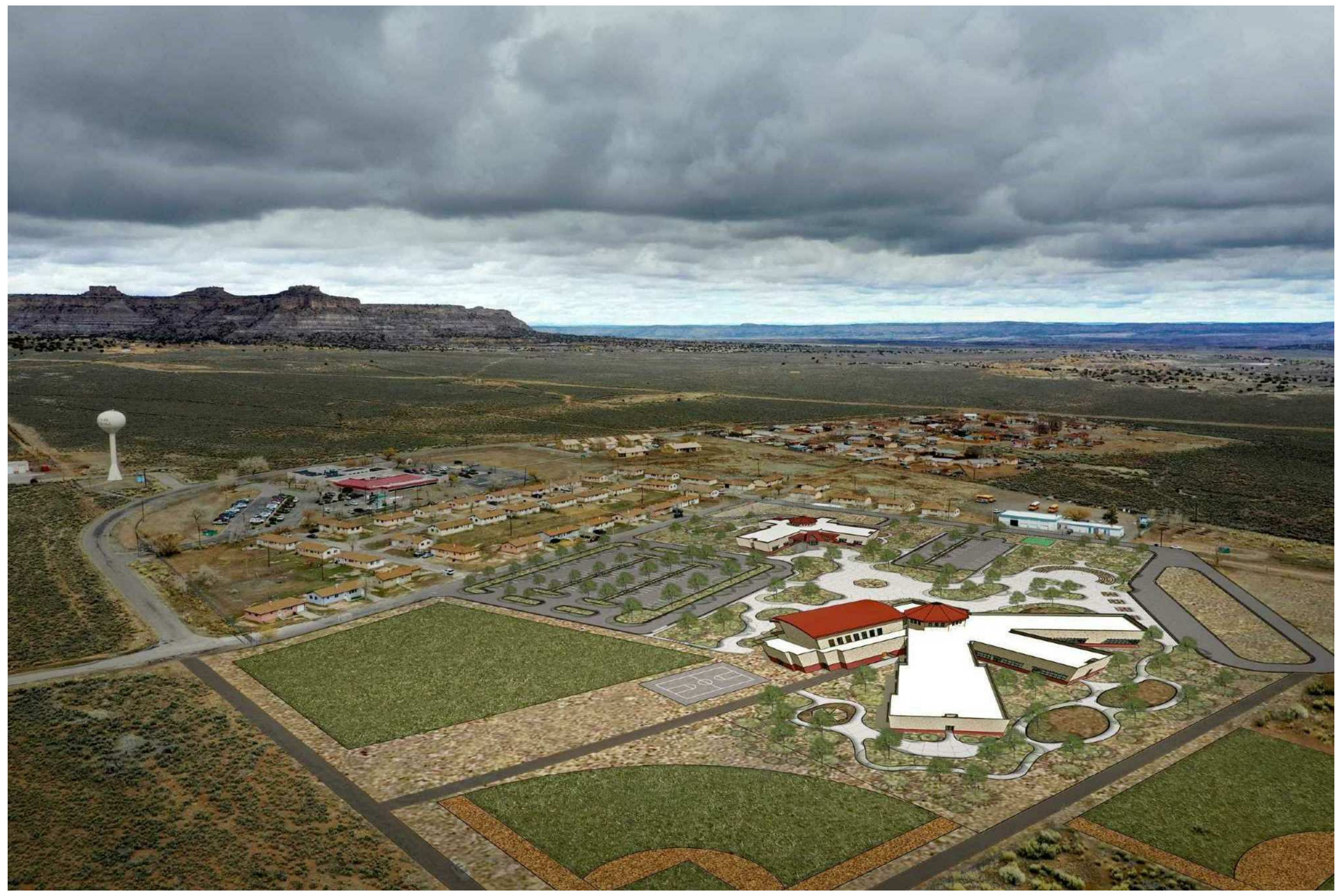
# Dzilth-Na-O-Dith-Hle

## Community School

# EARLY WORK PACKAGE

## Site Infrastructure & Building Pad Prep

JULY 7, 2020



## GENERAL

| | |
|---|---|
| G-000 | COVER SHEET |

## CIVIL

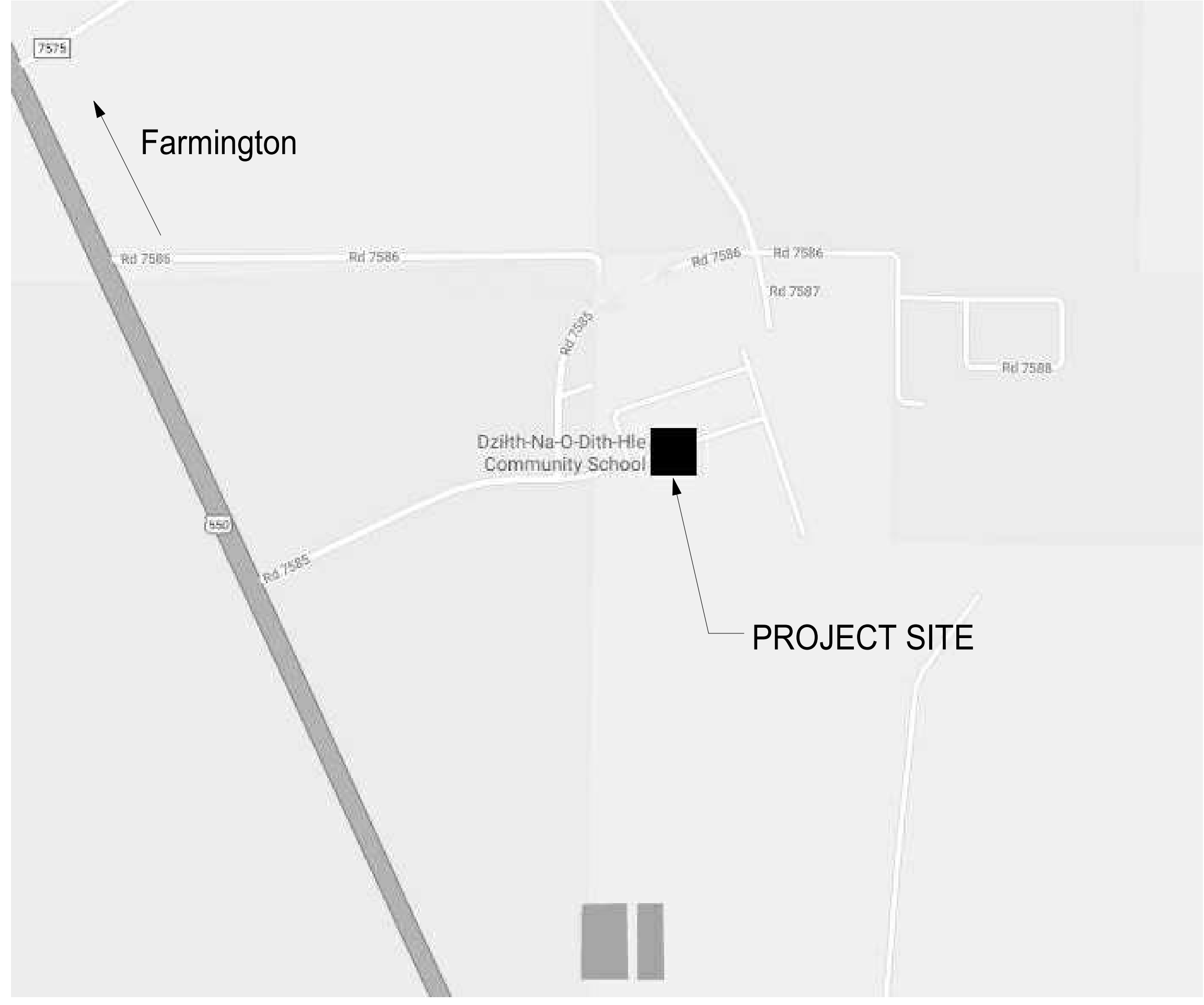
| | |
|---|---|
| C100 | OVERALL GRADING PLAN |
| C104 | GRADING PLAN |
| C105 | GRADING PLAN |
| C107 | GRADING PLAN |
| C200 | OVERALL UTILITY PLAN |
| C203 | UTILITY PLAN |
| C204 | UTILITY PLAN |
| C205 | UTILITY PLAN |
| C207 | UTILITY PLAN |
| C208 | UTILITY PLAN |
| C210 | UTILITY PLAN |

## LANDSCAPE

| | |
|---|---|
| LEW-101 | LANDSCAPE EARLY WORK PLAN |
| LEW-102 | LANDSCAPE EARLY WORK PLAN |

## STRUCTURAL

| | |
|---|---|
| S-001 | GENERAL STRUCTURAL NOTES |
| S-002 | STRUCTURAL SPECIAL INSPECTIONS |
| SCHOOL | |
| S-101 | OVERALL FOUNDATION PLAN (SCHOOL) |
| S-101A | ENLARGED FOUNDATION PLAN 'A' (SCHOOL) |
| S-101B | ENLARGED FOUNDATION PLAN 'B' (SCHOOL) |
| S-101C | ENLARGED FOUNDATION PLAN 'C' (SCHOOL) |
| S-101D | ENLARGED FOUNDATION PLAN 'D' (SCHOOL) |
| S-301 | FOUNDATION SECTIONS (SCHOOL) |
| DORM | |
| S-101(2) | FOUNDATION PLAN (DORM) |
| S-301(2) | FOUNDATION SECTIONS (DORM) |



## VICINITY MAP

35 Road 7585 #5003 - Bloomfield, NM 87413

## BIM MODEL REQUIREMENTS

**BIM MODEL SUBMITTAL & COORDINATION REQUIREMENTS**

All requirements noted in individual specification sections for submittal of coordination drawings and shop drawings shall be strictly followed. Item or Equipment fabrications and installations that occur prior to the approval of these drawings shall be subject to removal and replacement at no additional cost to the owner.

In addition to the required drawings noted above, contractor shall prepare BIM (Building Information Model) for the systems noted below. The intent of this BIM model is to determine conflicts and coordinate solutions that will resolve final system installation. The contractor may use the overall BIM model to generate the coordination drawings and vice-versa.
1. HVAC
2. Plumbing
3. Electrical
4. Fire Protection
5. Special Systems
6. Structural

## HAZARDOUS MATERIALS

## OWNER

**Dziłth-Na-O-Dith-Hle Community School**
35 Road 7585 #5003
Bloomfield, NM 87413
p_505.960.8563

## CONSULTANTS

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**DESIGN BUILD CONTRACTOR**
**Jaynes Corp.**
7900 RESOURCES AVENUE
FARMINGTON, NM 87401
p_505.326.3354

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

**AV & TECHNOLOGY**
**Network Cabling, INC**
3100 LA PLATA HWY
FARMINGTON, NM 87401
p_505.598.5054

fbt | architects

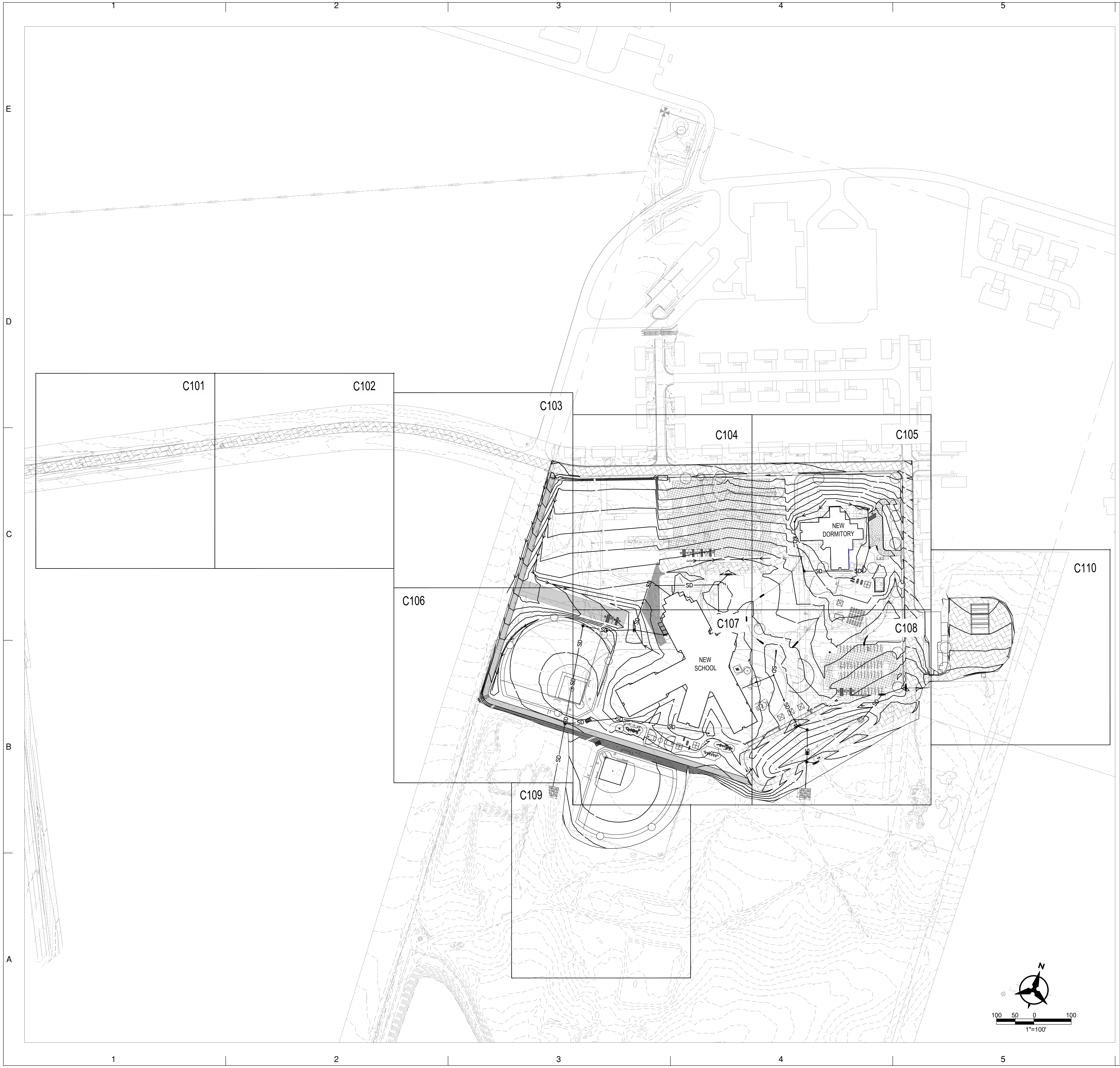
MAIL: 6501 Americas Pkwy NE Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

ARCHITECT

SET NO.

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## GENERAL PLAN NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT, PROJECT SPECIFICATIONS (1ST PRIORITY), AND AMERICAN PUBLIC WORKS (NMAPWA) STANDARD DETAILS AND SPECIFICATIONS (2ND PRIORITY).

2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, NAVAJO NATION, STATE, AND FEDERAL LAWS/RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION INSPECTOR.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION.

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE BIA TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS. WORK WITHIN THE NMDOT RIGHT-OF-WAY WILL REQUIRE APPLICABLE PERMITS THROUGH THE NMDOT DISTRICT 5 OFFICE.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING.

14. THE CONTRACTOR SHALL COMPLY WITH ALL NNEPA RULES AND REGULATIONS WHICH REGULATE THE DISCHARGE OF POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS DEFINED IN THE NPDES STORM WATER REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTION, AND MAINTENANCE. THE CONTRACTOR WILL POST THE SWPPP ON SITE AS REQUIRED, AS WELL AS SUBMIT COPIES OF SWPPP INSPECTION REPORTS TO OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ENSURE NOI'S. AND NOT'S. ARE COMPLETED IN A TIMELY FASHION.

15. CONTRACTOR TO PROVIDE LANDSCAPING OR OTHER MEASURES AS REQUIRED FOR FINAL STABILIZATION PER REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND NAVAJO NATION ENVIRONMENTAL PROTECTION AGENCY (NNEPA). PROVIDE DRAWINGS INDICATING PROPOSED APPROACH AND OBTAIN ARCHITECTS / ENGINEERS APPROVAL PRIOR TO INSTALLATION.

16. ALL EXISTING APPURTENANCES TO REMAIN INCLUDING, BUT NOT LIMITED TO, VALVES MANHOLES, TRANSFORMERS, & UTILITY POLES SHALL BE ADJUSTED TO FINISHED GRADE.

17. PIPE SLOPES PROVIDED ARE CALCULATED FROM CENTER OF MH/STRUCTURE TO CENTER OF MH/STRUCTURE. INVERTS SHOWN ARE ALSO AT CENTER OF MH/STRUCTURE.

## GRADING PLAN NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST, AND INCLUDED IN THE GMP.

3. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

4. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

5. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.

6. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE INSPECTOR. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

7. PAVING AND ROADWAY GRADES SHALL BE +/-0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/-0.05' FROM BUILDING PLAN ELEVATION.

8. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

9. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

10. THE CONTRACTOR SHALL PROVIDE AS-BUILTS SURVEY DATA TO ENSURE COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SURVEY SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED IN THE THE STATE OF NEW MEXICO. THE AS-BUILT DRAWING SHALL BE CERTIFIED BY THE SURVEYOR OF RECORD. THE AS-BUILT SHOULD INCLUDE, AT A MINIMUM, ALL TOP OF GRATES, INVERTS, DOORS, AND 75% OF SPOT ELEVATIONS. COORDINATE WITH ENGINEER PRIOR TO SURVEY.

Bohannan Huston
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 8/18/2020
PROJECT NO:
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

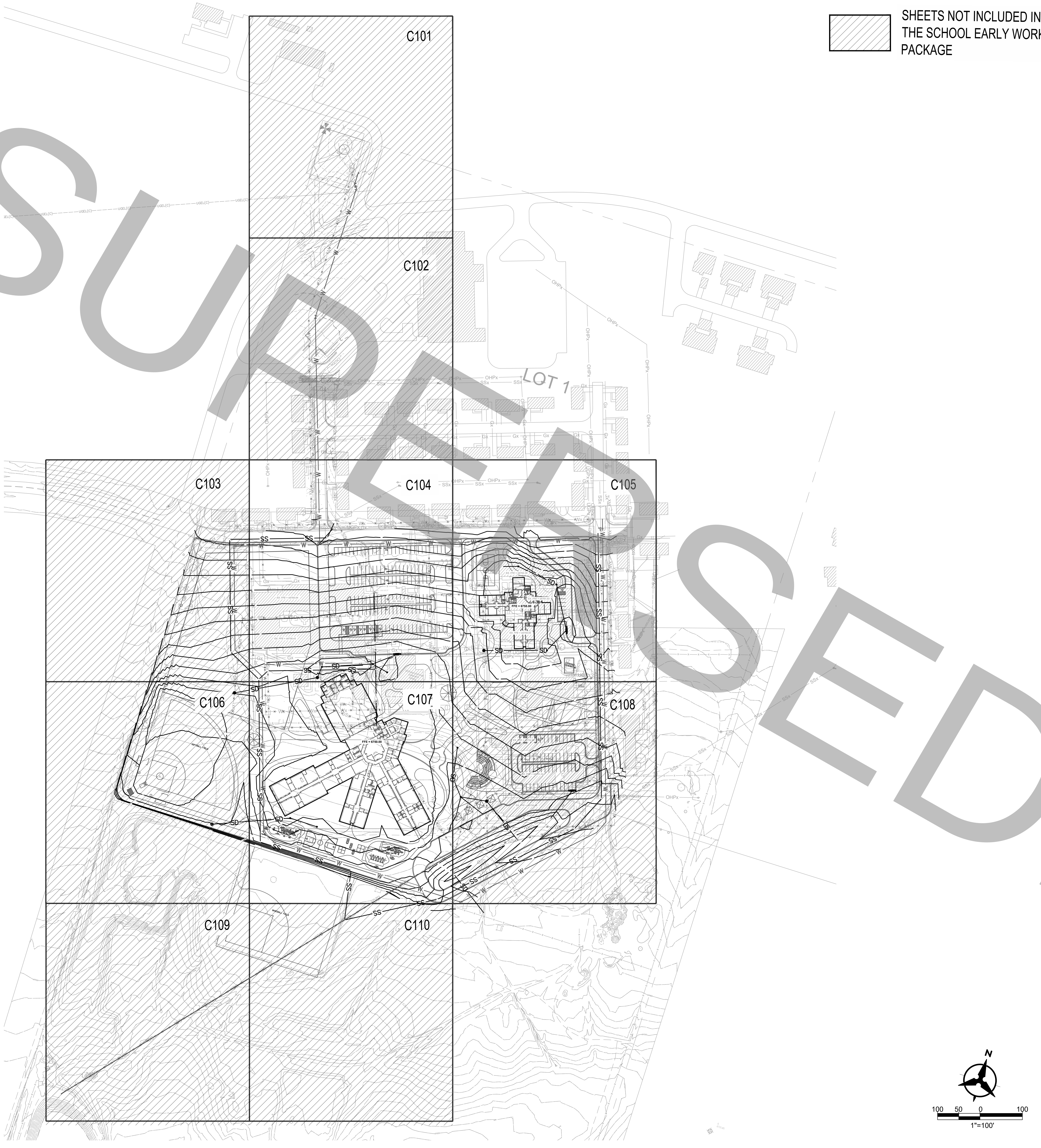
OVERALL
GRADING PLAN

C100

08/27/2020

School Information

▨ SHEETS NOT INCLUDED IN THE SCHOOL EARLY WORK PACKAGE



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2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, NAVAJO NATION, STATE, AND FEDERAL LAWS/RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.

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4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES. CONTACT DARRYL BEGAYE, NTUA, (928) 225-0358.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

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9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

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Bohannan ▲ Huston
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
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7500 Jefferson Street NE
Albuquerque, NM, 87109
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4600 C Montgomery Blvd. NE
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**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |

ISSUE:
DATE: 7/6/2020
PROJECT NO:
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

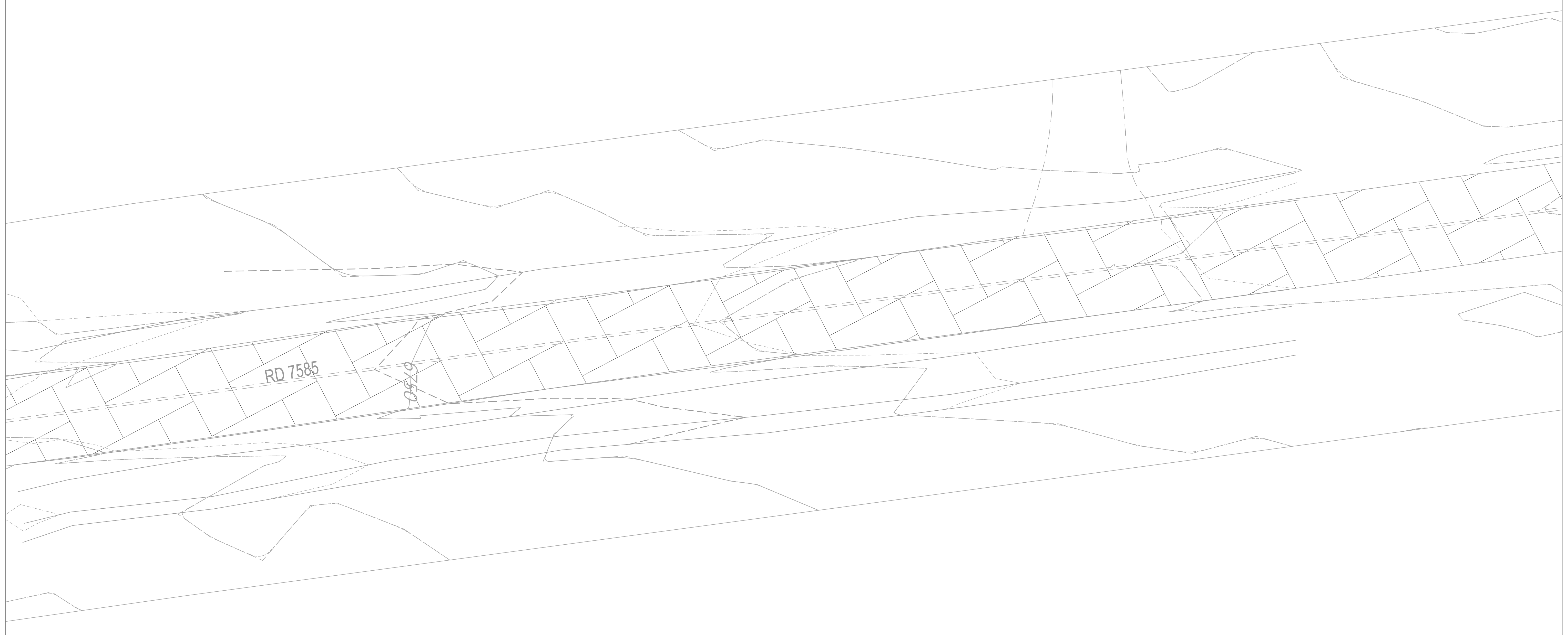
OVERALL GRADING PLAN

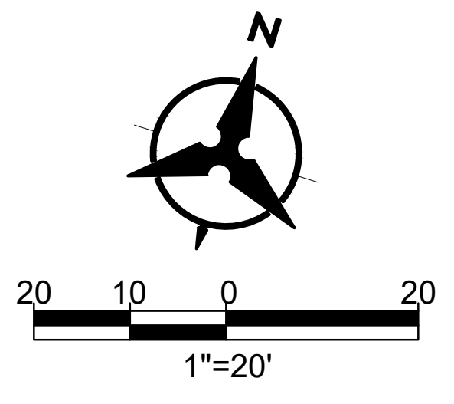
C100

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

E D C B A

C-101





## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12, CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
3. CONSTRUCT TYPE "A" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2201.
4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
5. CONSTRUCT TYPE "C" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 18" THICK TYPE L RIPRAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
17. INSTALL 12" THICK TYPE VL RIP-RAP PER 6/403.
18. CONSTRUCT 12" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
19. CONSTRUCT 24" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
20. CONNECT TO EXISTING STORM DRAIN SYSTEM.
21. EXISTING STORM DRAIN TO REMAIN. PROTECT IN PLACE.
22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

## LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY LINE |
| ⊕ 95.40 | PROPOSED SPOT ELEVATION<br>TC=TOP OF CURB<br>FL=FLOW LINE<br>TOC=TOP OF CONCRETE<br>TS=TOP OF SIDEWALK<br>TG=TOP OF GRATE<br>FG=FINISHED GRADE<br>FGH=FINISHED GRADE HIGH<br>FGL=FINISHED GRADE LOW<br>INV=INVERT |
| —— 4960 —— | EXISTING INDEX CONTOUR |
| —— 4959 —— | EXISTING INTERMEDIATE CONTOUR |
| ——→ | DIRECTION OF FLOW |
| ∿∿∿∿∿∿ | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
| ▣ ▦ | PROPOSED STORM DRAIN INLETS |
| ⊓ | PROPOSED STORM DRAIN CAP |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

**Architecture**
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6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
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|---|---|
| ISSUE: | |
| DATE: | 7/29/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

GRADING PLAN

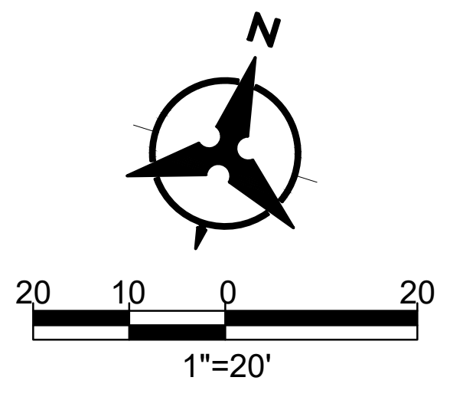
C101

Mon, 14-Sep-2020 - 8:17:pm, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_GP01.dwg

08/27/2020

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12, CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
3. CONSTRUCT TYPE "A" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2201.
4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
5. CONSTRUCT TYPE "C" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 18" THICK TYPE L RIPRAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
17. INSTALL 12" THICK TYPE VL RIP-RAP PER 6/403.
18. CONSTRUCT 12" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
19. CONSTRUCT 24" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
20. CONNECT TO EXISTING STORM DRAIN SYSTEM.
21. EXISTING STORM DRAIN TO REMAIN. PROTECT IN PLACE.
22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

## LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY LINE |
| ● 95.40 | PROPOSED SPOT ELEVATION<br>TC=TOP OF CURB<br>FL=FLOW LINE<br>TOC=TOP OF CONCRETE<br>TS=TOP OF SIDEWALK<br>TG=TOP OF GRATE<br>FG=FINISHED GRADE<br>FGH=FINISHED GRADE HIGH<br>FGL=FINISHED GRADE LOW<br>INV=INVERT |
| — — 4960 — — | EXISTING INDEX CONTOUR |
| — — 4959 — — | EXISTING INTERMEDIATE CONTOUR |
| ——→ | DIRECTION OF FLOW |
| ∿∿∿∿∿∿ | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
| ▣ ⊞ | PROPOSED STORM DRAIN INLETS |
| ⊓ | PROPOSED STORM DRAIN CAP |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
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One Park Square
6501 Americas Pkwy NE, Ste. 300
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NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

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|---|---|---|
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| DATE: | 7/29/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

GRADING PLAN

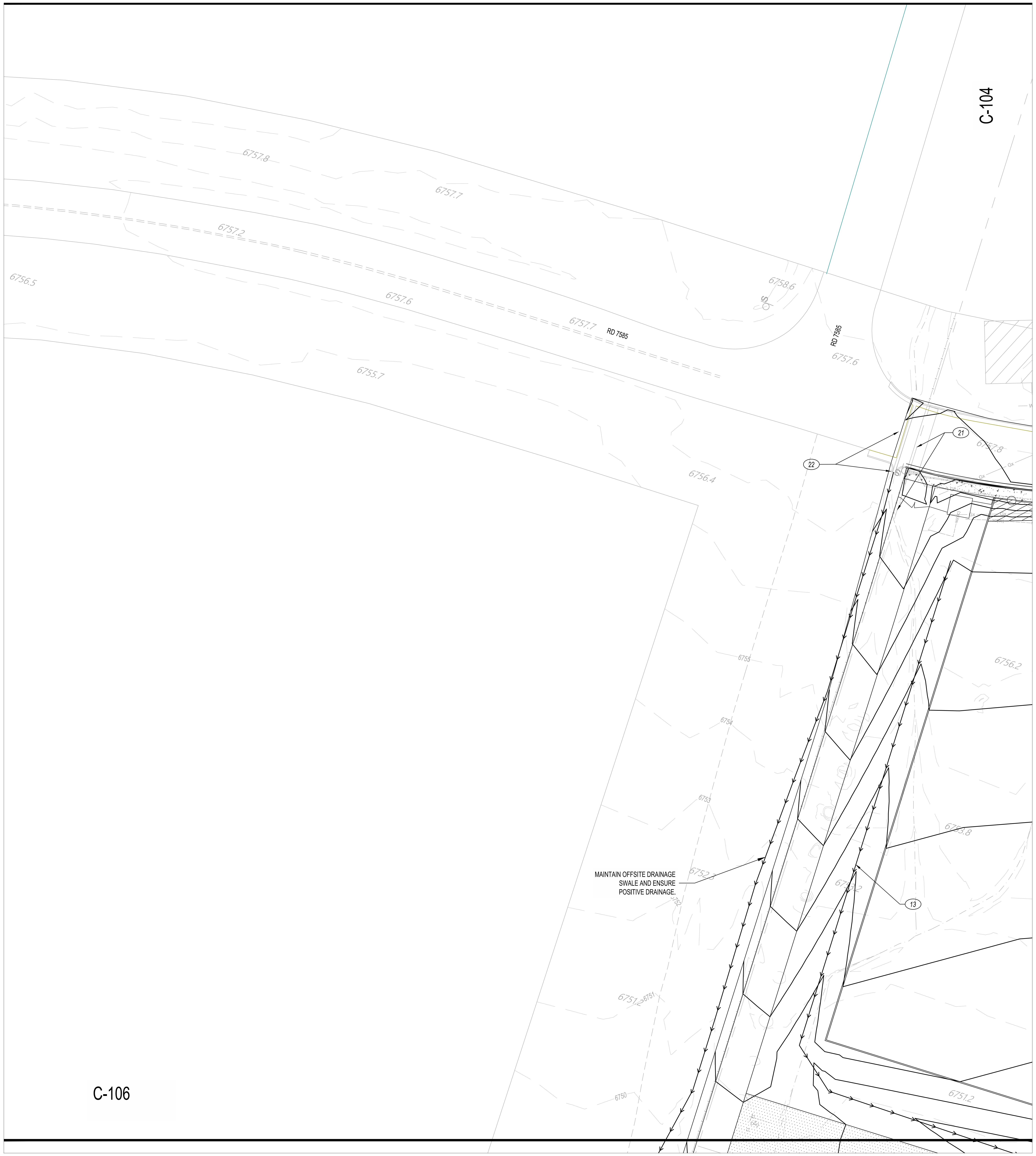
C102

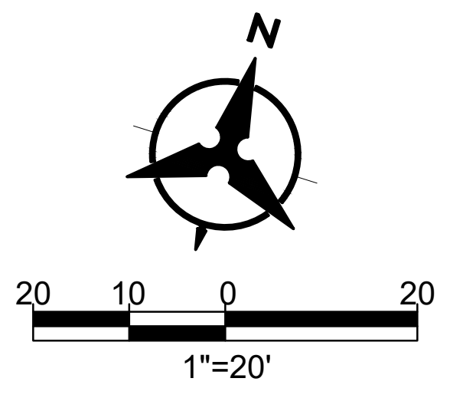
School Information

Mon, 14-Sep-2020 - 8:19:pm, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_GP02.dwg

08/27/2020

**DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL**





## GENERAL NOTES

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## ○ GRADING KEYED NOTES

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2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
3. CONSTRUCT TYPE "A" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2201.
4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
5. CONSTRUCT TYPE "C" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 18" THICK TYPE L RIPRAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
17. INSTALL 12" THICK TYPE VL RIP-RAP PER 6/403.
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19. CONSTRUCT 24" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
20. CONNECT TO EXISTING STORM DRAIN SYSTEM.
21. EXISTING STORM DRAIN TO REMAIN. PROTECT IN PLACE.
22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

## LEGEND

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|---|---|
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| — — 4960 — — | EXISTING INDEX CONTOUR |
| — — 4959 — — | EXISTING INTERMEDIATE CONTOUR |
| → | DIRECTION OF FLOW |
| 〰 | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
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fbt | architects
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CONSULTANT

**Architecture**
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Albuquerque, NM 87110
p_ 505.883.5200

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7500 Jefferson Street NE
Albuquerque, NM, 87109
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4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
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NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

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|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

GRADING PLAN

C103

School Information

08/27/2020

Mon, 14-Sep-2020 - 8:22:pm, Plotted by: OBROWN
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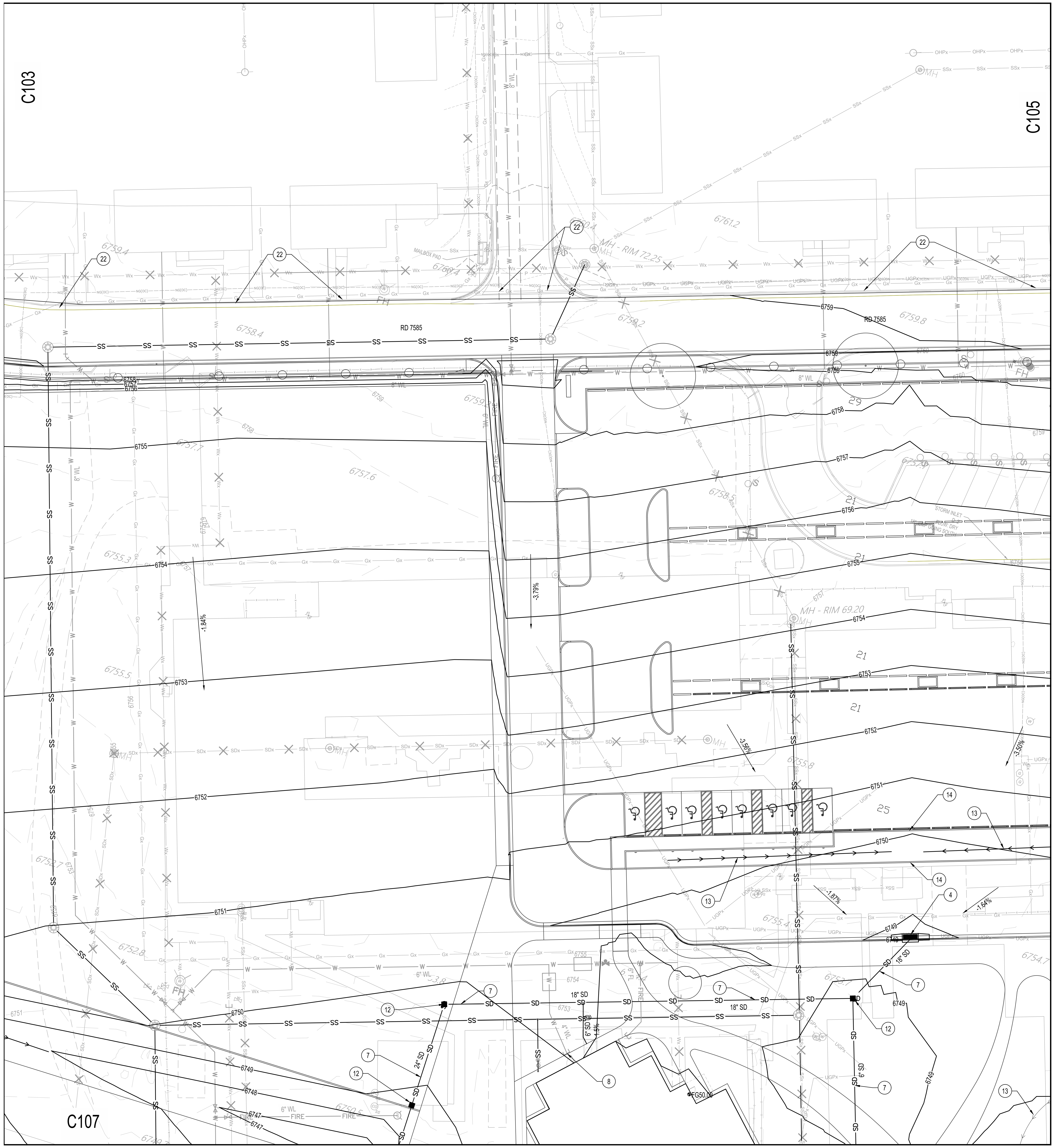
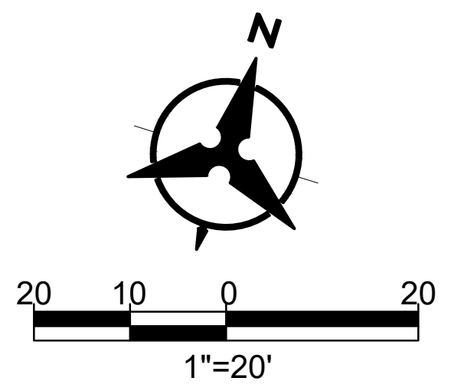
**DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL**





## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12, CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
3. CONSTRUCT TYPE "A" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2201.
4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
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7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 18" THICK TYPE L RIPRAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
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22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

## LEGEND

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| 4960 | EXISTING INDEX CONTOUR |
| 4959 | EXISTING INTERMEDIATE CONTOUR |
| → | DIRECTION OF FLOW |
| 〰 | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
| ▣ ● | PROPOSED STORM DRAIN INLETS |
| ⊓ | PROPOSED STORM DRAIN CAP |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

**fbt | architects**
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
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Albuquerque, NM, 87109
p_505.823.1000

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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
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|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

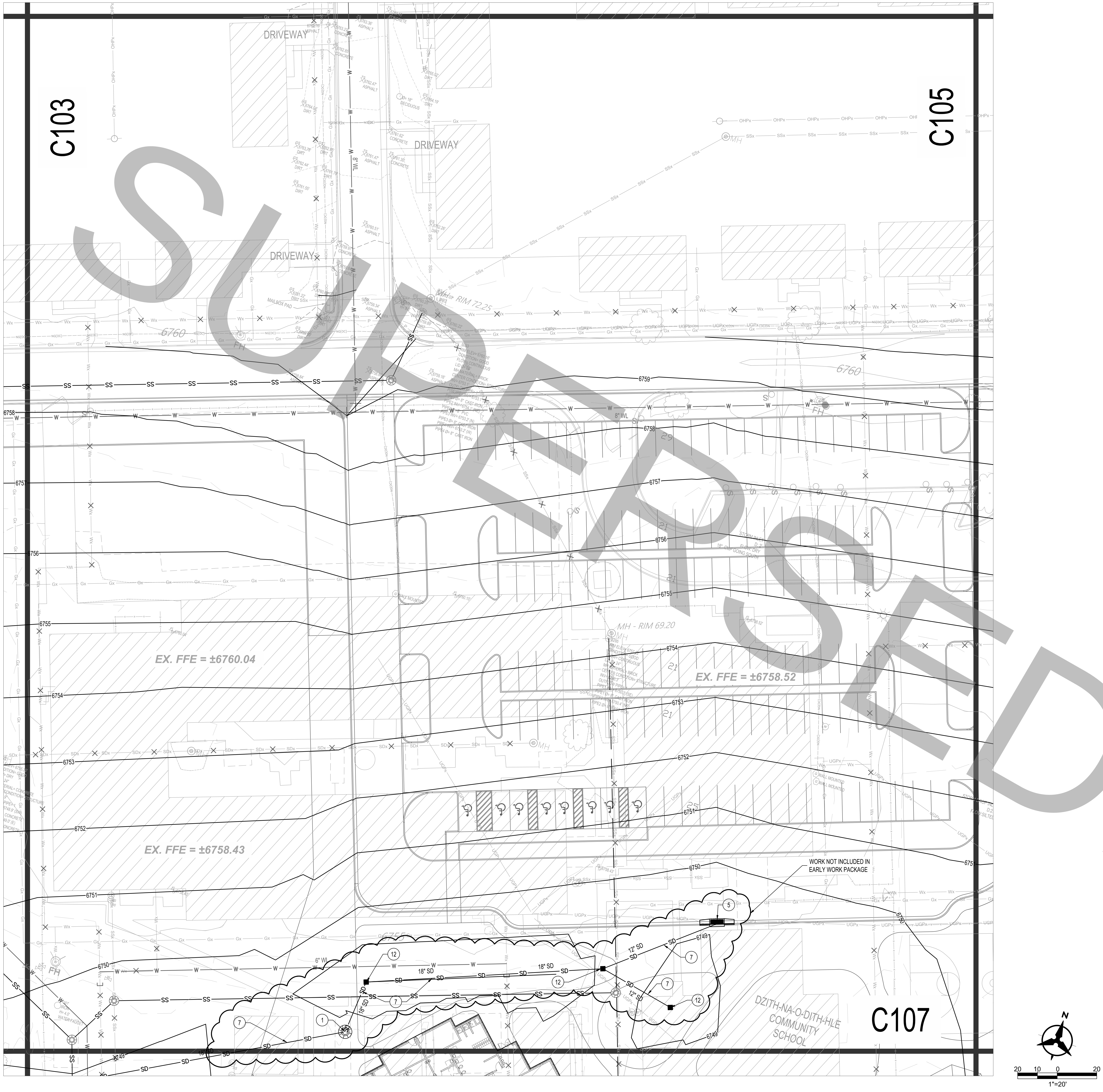
SHEET TITLE

GRADING PLAN

C104

School Information

08/27/2020



## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12 CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
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6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 2' * 2' NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 12" THICK WIRE TIED RIP-RAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
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| 4960 | EXISTING INDEX CONTOUR |
| 4959 | EXISTING INTERMEDIATE CONTOUR |
| → | DIRECTION OF FLOW |
| ﹏﹏﹏ | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
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**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 6/11/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

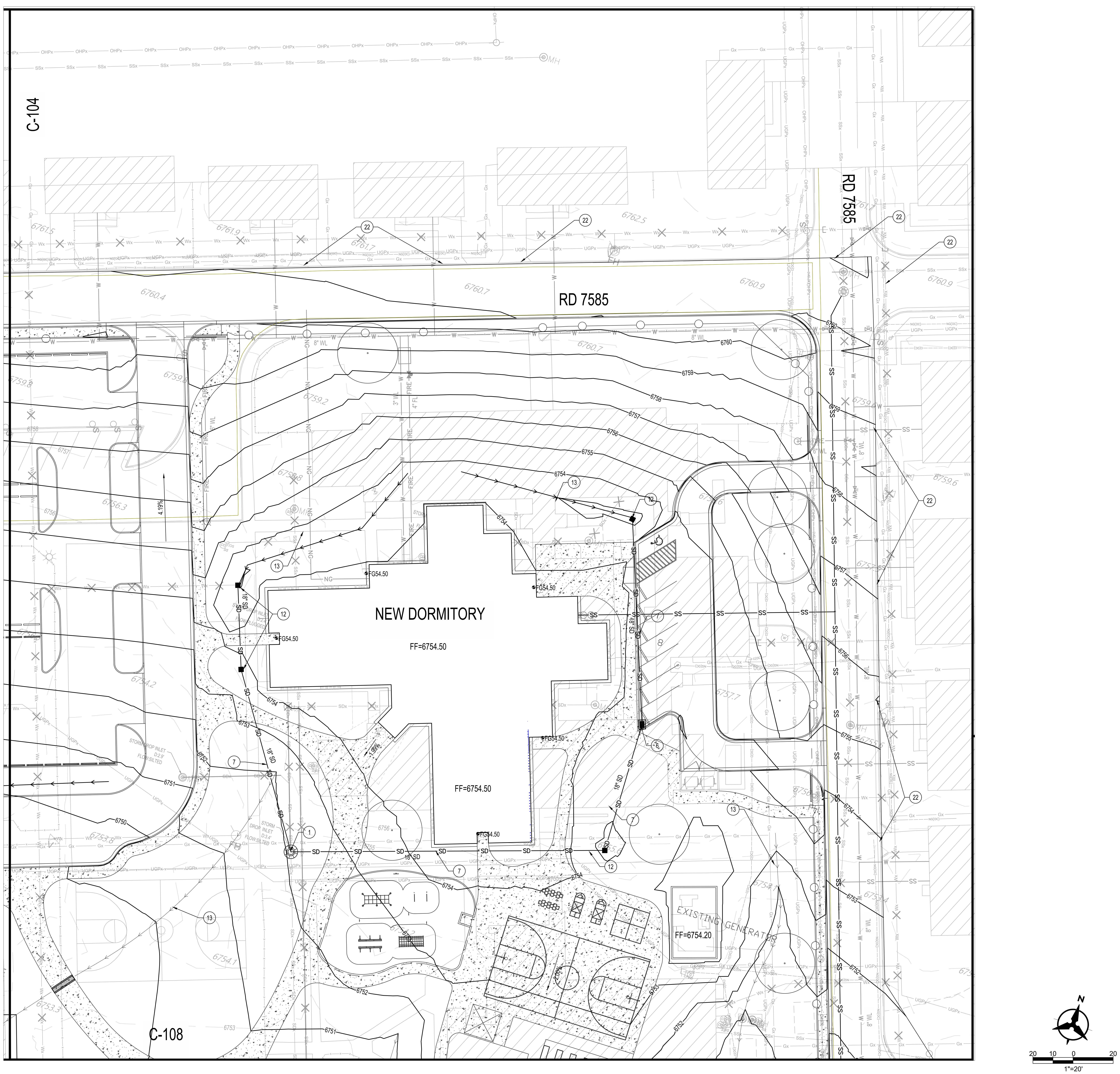
SHEET TITLE

GRADING PLAN

C104

6/16/2020

School Information



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## LEGEND

| | |
|---|---|
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Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 8/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

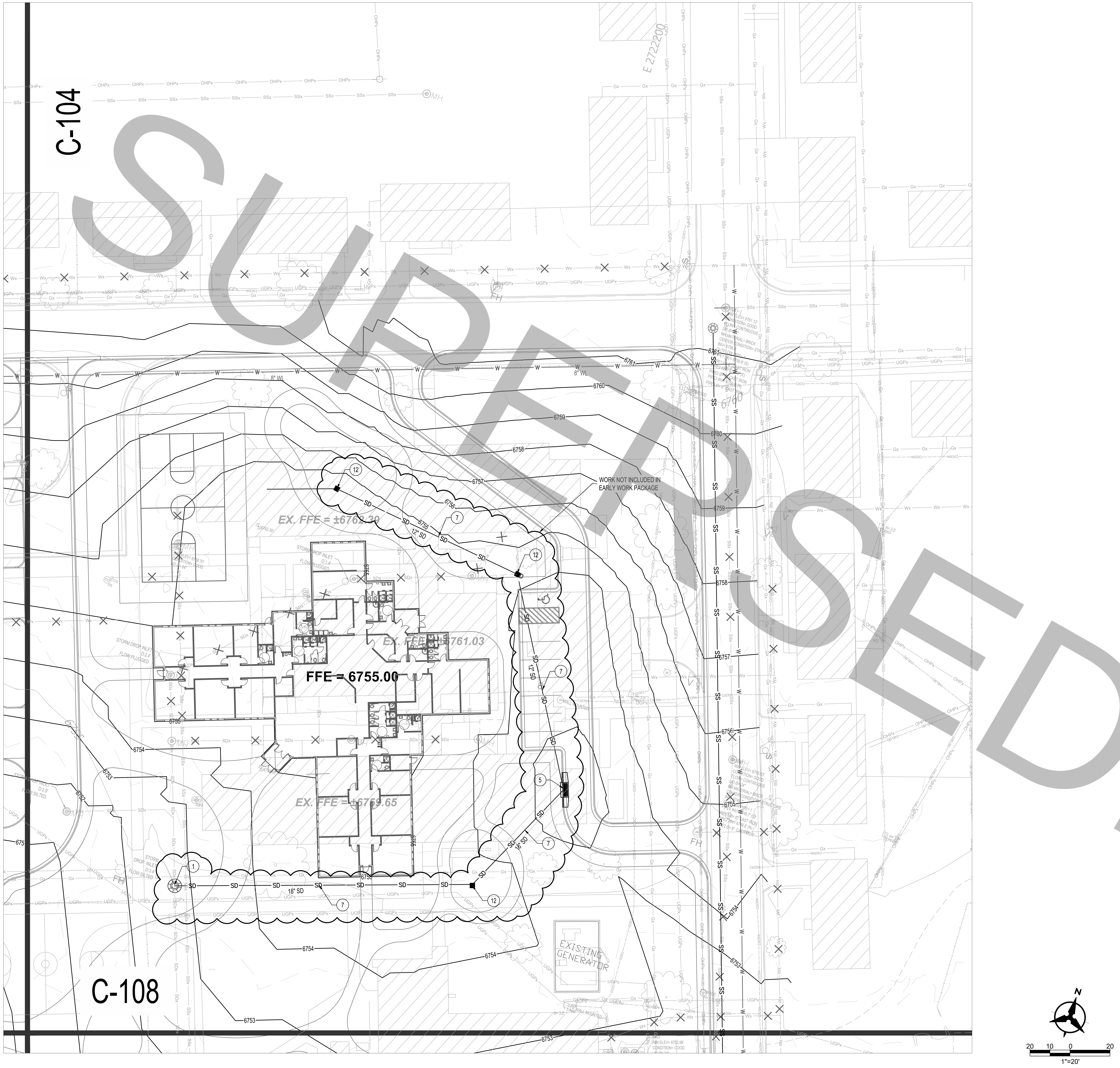
GRADING PLAN

C105

School Information

08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12 CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
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4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
5. CONSTRUCT TYPE "C" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 2' * 2' NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 12" THICK WIRE TIED RIP-RAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
17. INSTALL 12" THICK TYPE VL RIP-RAP PER 6/403.
18. CONSTRUCT 12" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
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| 4960 | EXISTING INDEX CONTOUR |
| 4959 | EXISTING INTERMEDIATE CONTOUR |
| → | DIRECTION OF FLOW |
| ﹏ | WATER BLOCK/GRADE BREAK |
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www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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Dzilth-Na-O-Dith-Hle Community School
"FOR EACH CHILD SUCCESS"

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
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| | | |

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|---|---|
| ISSUE: | |
| DATE: | 6/18/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

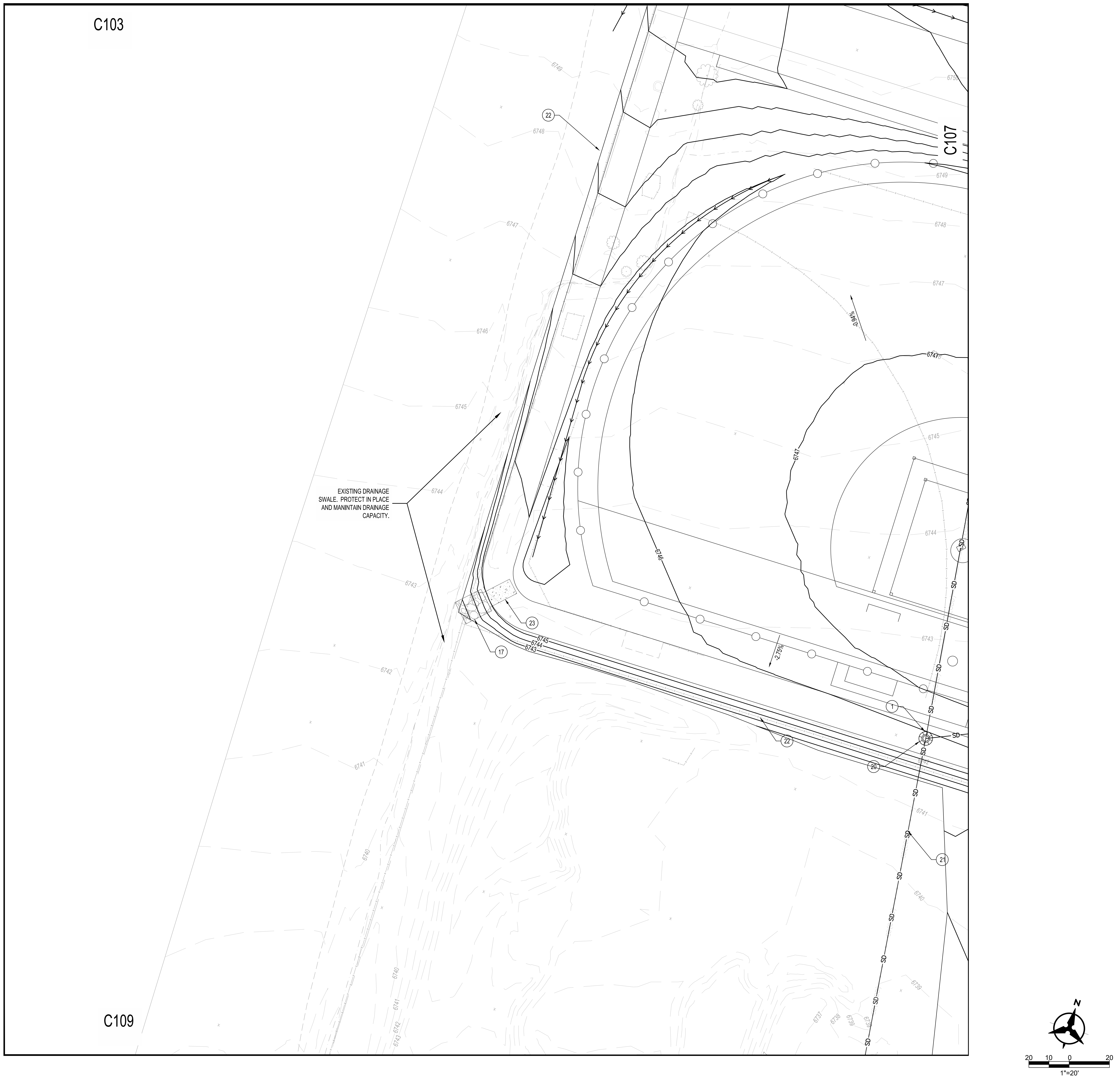
SHEET TITLE

GRADING PLAN

C105

School Information

6/16/2020



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7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
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19. CONSTRUCT 24" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
20. CONNECT TO EXISTING STORM DRAIN SYSTEM.
21. EXISTING STORM DRAIN TO REMAIN. PROTECT IN PLACE.
22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

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| 4960 | EXISTING INDEX CONTOUR |
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**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

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ISSUE:
DATE: 6/18/2020
PROJECT NO: 20210041
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DRAWN BY: JTN
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SHEET TITLE

GRADING PLAN

C106

School Information

Mon, 14-Sep-2020 - 8:30:pm, Plotted by: OBROWN
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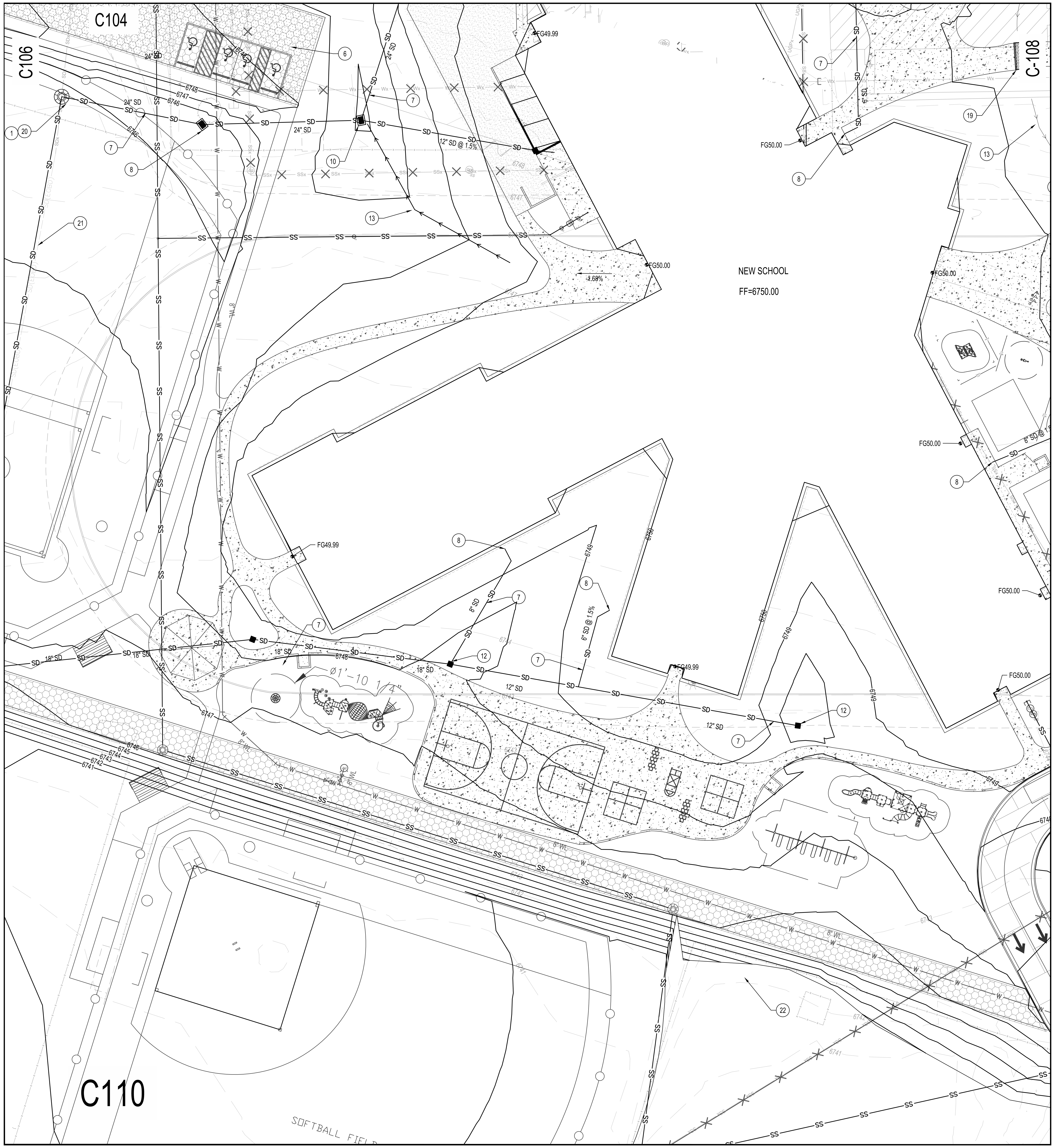
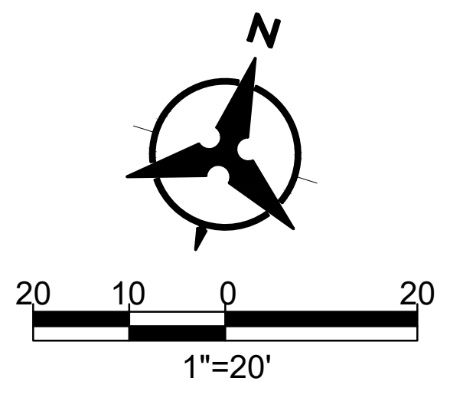
08/27/2020





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fbt | architects
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CONSULTANT

**Architecture**
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NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
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| | | |

ISSUE:
DATE: 8/27/2020
PROJECT NO: 20210041
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SHEET TITLE

GRADING PLAN

C107

School Information

08/27/2020

Mon, 14-Sep-2020 - 8:33:pm, Plotted by: OBROWN
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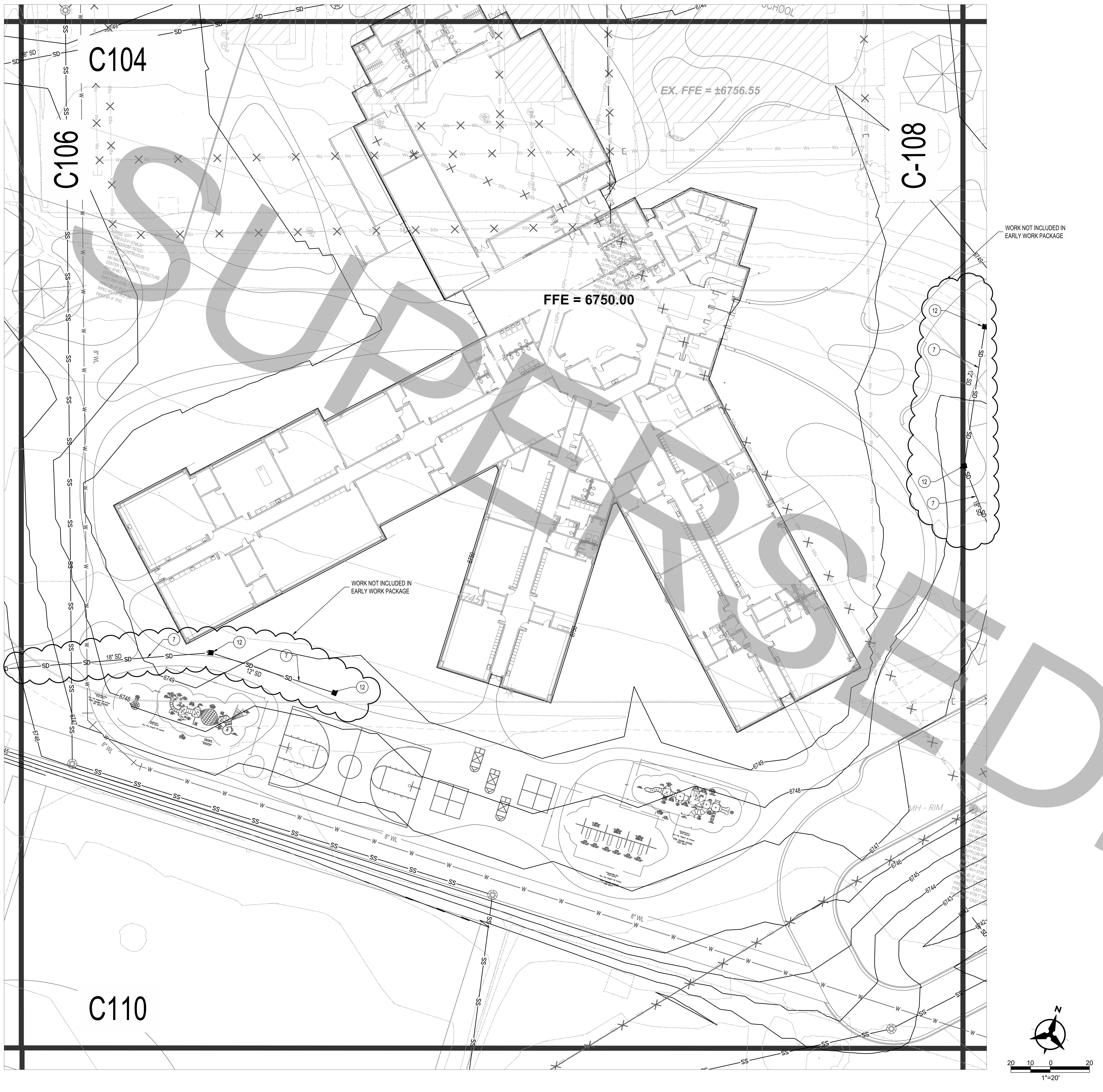
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

6/16/2020



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fbt | architects
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CONSULTANT

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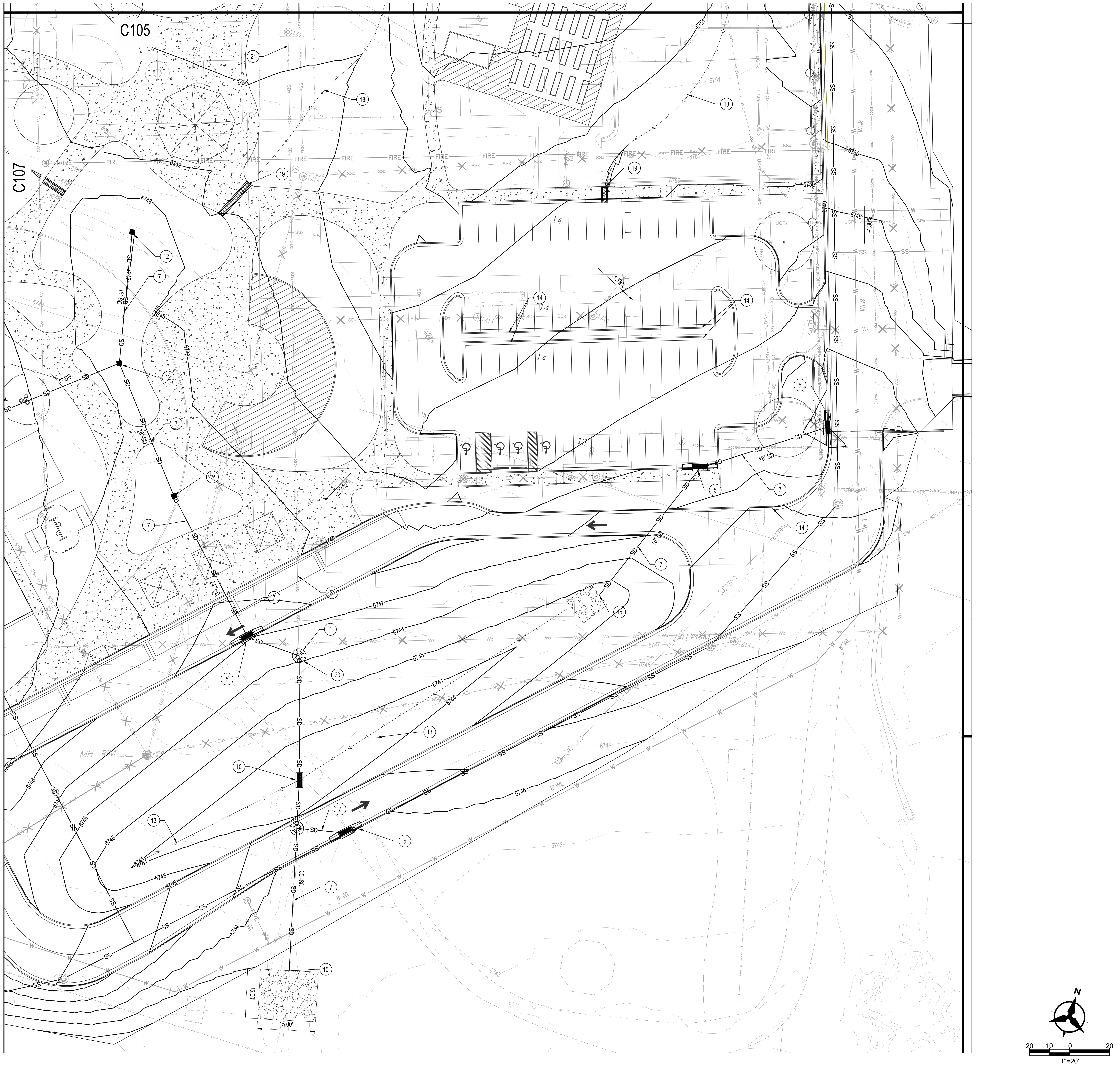
GRADING PLAN

C107

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



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SHEET TITLE

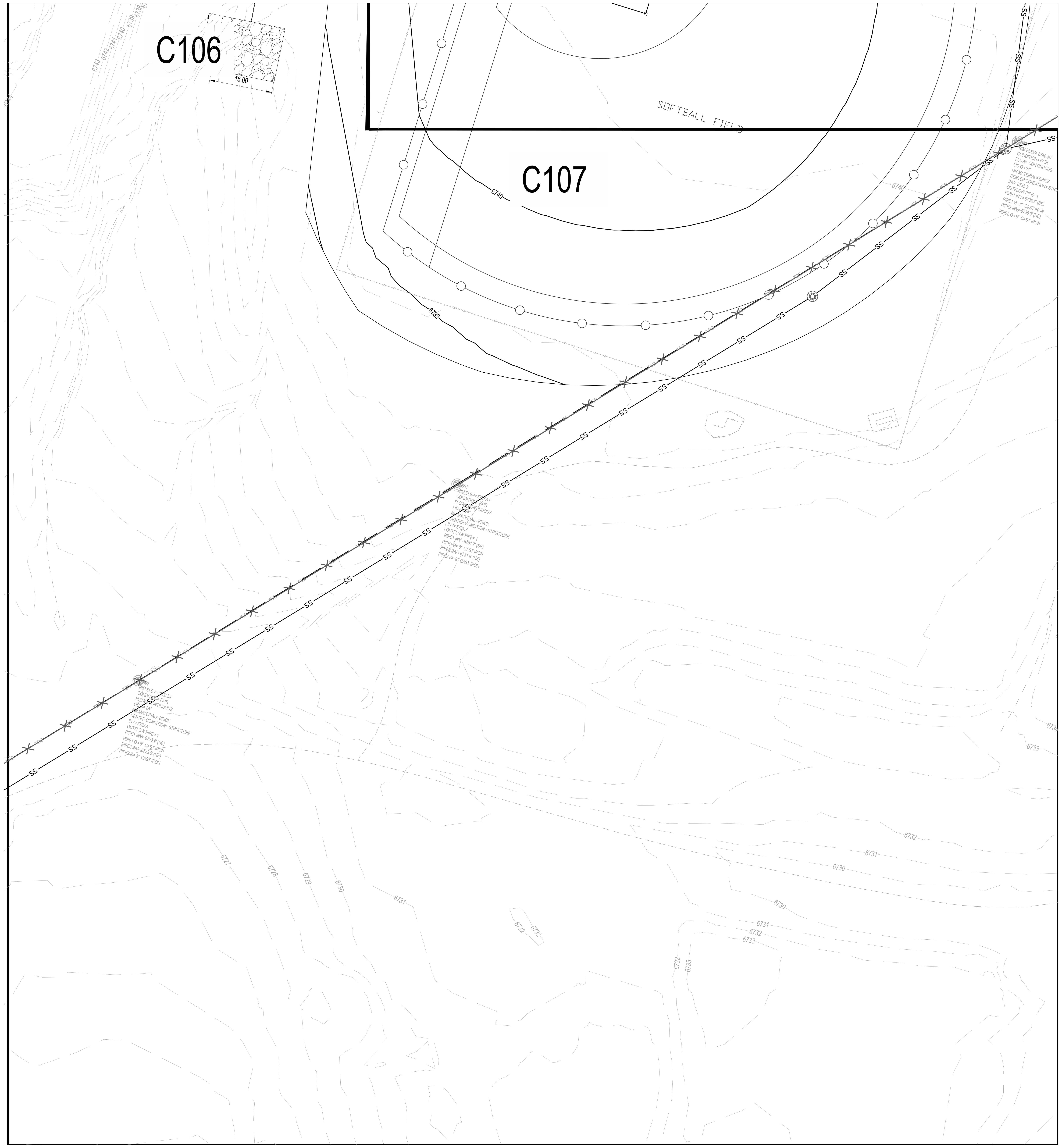
GRADING PLAN

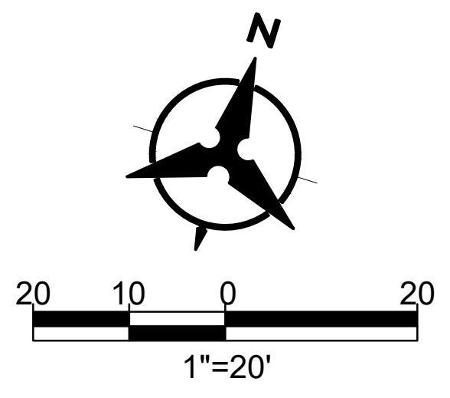
C108

School Information

08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





## GENERAL NOTES

1. ALL STORM DRAIN PIPE TO BE HDPE N-12, CLASS III RCP, OR APPROVED EQUAL.

## ○ GRADING KEYED NOTES

1. CONSTRUCT 4' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
2. CONSTRUCT 6' DIA TYPE "E" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2102.
3. CONSTRUCT TYPE "A" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2201.
4. CONSTRUCT TYPE "A" DOUBLE GRATE, STORM DRAIN INLET PER NMAPWA STD DWG 2201.
5. CONSTRUCT TYPE "C" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
6. CONSTRUCT TYPE "D" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
7. INSTALL STORM DRAIN PIPE. SEE PLAN FOR SIZE & SLOPE.
8. INSTALL STORM DRAIN PIPE TO WITHIN 5' OF BUILDING FOR ROOF DRAIN CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
9. CONSTRUCT 4' DIA TYPE "C" STORM DRAIN MANHOLE PER NMAPWA STD DWG 2101.
10. CONSTRUCT TYPE "D" DOUBLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2206.
11. CONSTRUCT RETAINING WALL. SEE STRUCTURAL PLANS.
12. INSTALL 24" * 24" NYLOPLAST DRAIN BASIN WITH GRATE.
13. CONSTRUCT BIO - SWALE PER DETAIL XXXX.
14. INSTALL 12" WIDE CURB OPENING PER DETAIL 2/C403.
15. INSTALL FLARED END SECTION AND 18" THICK TYPE L RIPRAP PAD.
16. CONSTRUCT TYPE "C" SINGLE GRATE STORM DRAIN INLET PER NMAPWA STD DWG 2205.
17. INSTALL 12" THICK TYPE VL RIP-RAP PER 6/403.
18. CONSTRUCT 12" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
19. CONSTRUCT 24" WIDE SIDEWALK CULVERT PER NMAPWA STD DWG 2236.
20. CONNECT TO EXISTING STORM DRAIN SYSTEM.
21. EXISTING STORM DRAIN TO REMAIN. PROTECT IN PLACE.
22. MATCH EXISTING GRADE; NOTIFY ENGINEER OF ANY DISCREPANCIES.
23. INSTALL 8' WIDE VALLEY GUTTER PER NMAPWA STD DWG 2422.

## LEGEND

| | |
|---|---|
| — — — | PROPERTY LINE |
| ● 95.40 | PROPOSED SPOT ELEVATION<br>TC=TOP OF CURB<br>FL=FLOW LINE<br>TOC=TOP OF CONCRETE<br>TS=TOP OF SIDEWALK<br>TG=TOP OF GRATE<br>FG=FINISHED GRADE<br>FGH=FINISHED GRADE HIGH<br>FGL=FINISHED GRADE LOW<br>INV=INVERT |
| 4960 | EXISTING INDEX CONTOUR |
| 4959 | EXISTING INTERMEDIATE CONTOUR |
| → | DIRECTION OF FLOW |
| ∿∿∿ | WATER BLOCK/GRADE BREAK |
| ◎ | PROPOSED STORM DRAIN MANHOLE |
| ▣ ● | PROPOSED STORM DRAIN INLETS |
| ⊓ | PROPOSED STORM DRAIN CAP |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
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**M/E/P**
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4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

GRADING PLAN

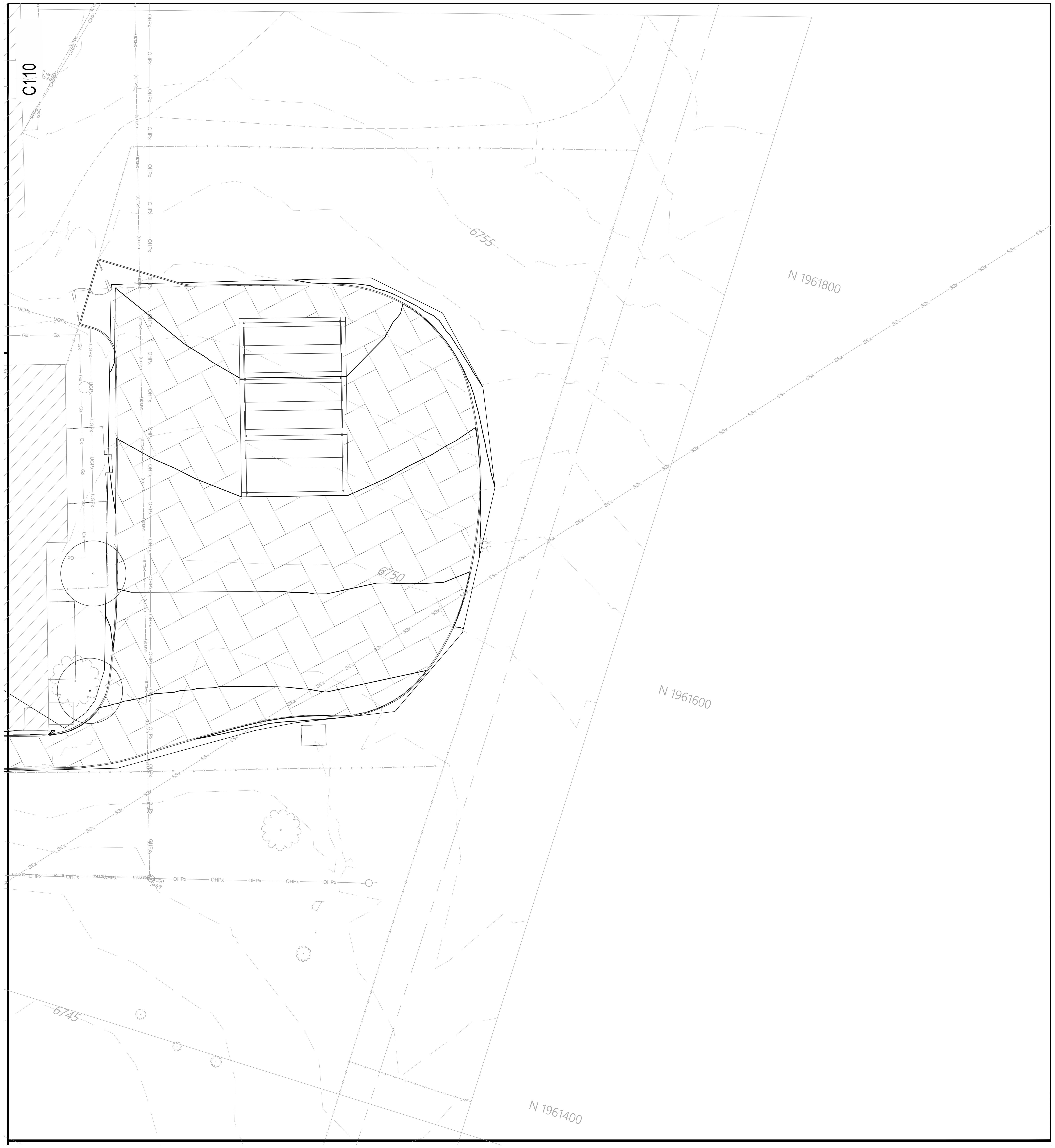
C109

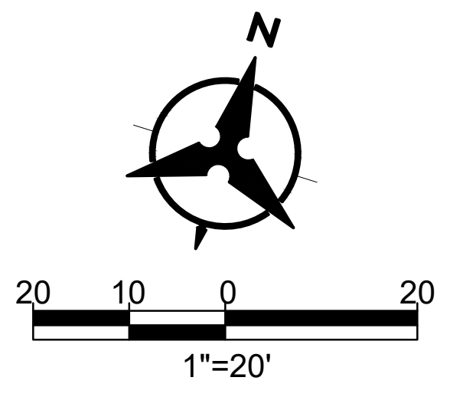
School Information

08/27/2020

Mon, 14-Sep-2020 - 8:39:pm, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_GP09.dwg

**DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL**





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Albuquerque, NM, 87109
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NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

GRADING PLAN

C110

08/27/2020

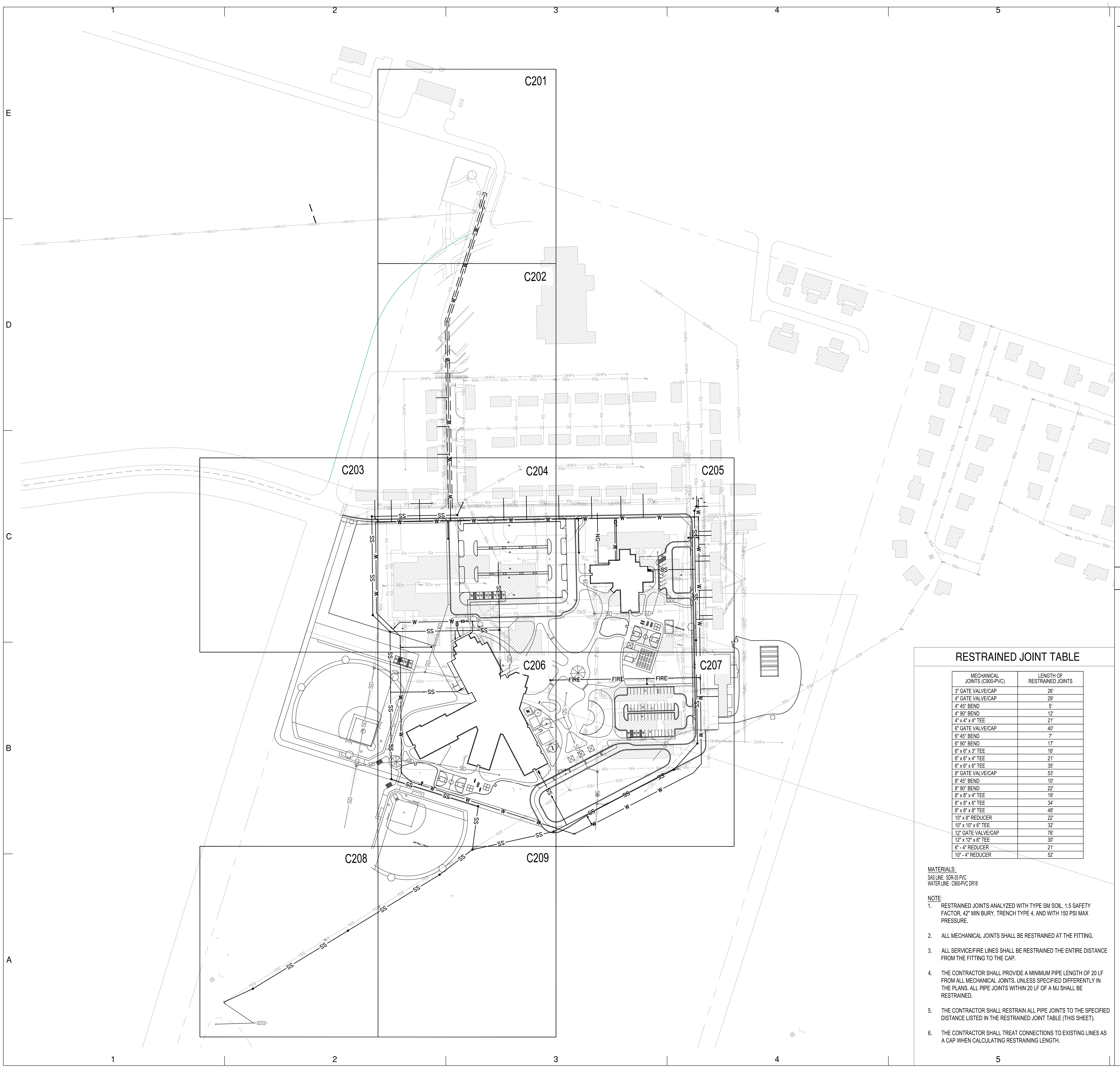
Mon, 14-Sep-2020 - 8:41:pm, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_GP10.dwg

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

08/27/2020

Wed, 23-Sep-2020 - 10:19:am, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_UP00.dwg

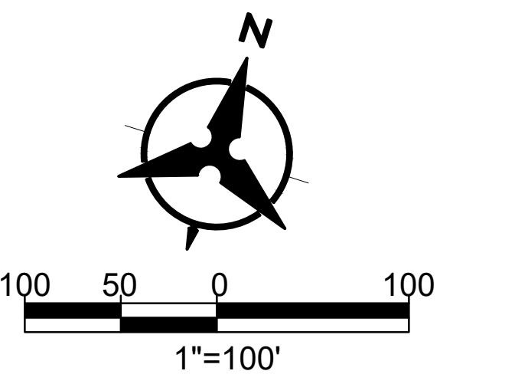


# UTILITY NOTES

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO MECHANICAL UTILITIES AS SHOWN ON THIS PLAN INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEANOUT PADS, SERVICE STOPS AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING. ANY WORK NOT ACCEPTED BY THE ARCHITECT OR ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED.
2. MINIMUM DEPTHS OF COVER SHALL BE: 42" FOR WATER LINES AND 48" FOR SEWER, EXCEPT AT BUILDING CONNECTION.
3. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED OF HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE IAPMO UNIFORM PLUMBING CODE (2015 EDITION) & NFPA 24 (2018 EDITION).
4. UTILITY LINES SHALL BE INSTALLED PRIOR TO PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALK, AS APPLICABLE.
5. ROUGH GRADING OF SITE (±0.5') SHALL BE COMPLETED PRIOR TO INSTALLATION OF UTILITY LINES.
6. CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTIONS TO BUILDING DRAIN LINES AND ALL NECESSARY FITTINGS.
7. ALL VALVES SHALL BE ANCHORED PER NMAPWA STANDARDS.
8. FIRE WATER LINES SHALL USE PIPE MATERIALS UNDERWRITERS LABORATORIES LISTED AND APPROVED FOR FIRE SERVICE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WATER METER, FIRE WATER LINE, AND SEWER CONNECTIONS WITH THE OWNER.
10. CONTRACTOR SHALL VERIFY INVERTS AND LOCATIONS OF EXISTING WATER/SAS LINES PRIOR TO BEGINNING WORK. ALL CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO BEGINNING WORK.
11. MINIMUM HORIZONTAL AND VERTICAL SEPARATIONS PER NMAPWA STANDARDS.
12. ALL WATER AND SANITARY SEWER WORK DETAILED SHALL BE CONSTRUCTED PER NMAPWA STANDARDS AND SPECIFICATIONS.
13. UTILITIES WITHIN BIA RIGHT-OF-WAY SHALL REQUIRE A BIA PERMIT AND CONSTRUCTION SHALL ADHERE TO ALL APPLICABLE PERMIT REQUIREMENTS.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION INSPECTOR.
15. CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION OF FIRE SERVICE LINES, AND PRIOR TO TESTING AND INSPECTION OF ALL WATER & WASTEWATER LINES. CONTRACTOR SHALL COMPLETE, SIGN, AND SUBMIT THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" IN ACCORDANCE WITH NFPA 24.
16. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION.
17. ALL MANHOLES, VALVES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO FINAL FINISHED GRADE. INTERIM GRADING ELEVATIONS MAY VARY.
18. CONTRACTOR RESPONSIBLE FOR PROVIDING UTILITY AS-BUILTS AND IDENTIFYING WHICH EXISTING UTILITIES HAVE BEEN REMOVED OR ABANDONED AND IDENTIFYING THEM ACCORDINGLY.

# LEGEND

| | |
|---|---|
| — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |



# RESTRAINED JOINT TABLE

| MECHANICAL JOINTS (C900-PVC) | LENGTH OF RESTRAINED JOINTS |
|---|---|
| 3" GATE VALVE/CAP | 26' |
| 4" GATE VALVE/CAP | 29' |
| 4" 45° BEND | 5' |
| 4" 90° BEND | 12' |
| 4" x 4" x 4" TEE | 21' |
| 6" GATE VALVE/CAP | 40' |
| 6" 45° BEND | 7' |
| 6" 90° BEND | 17' |
| 6" x 6" x 3" TEE | 16' |
| 6" x 6" x 4" TEE | 21' |
| 6" x 6" x 6" TEE | 35' |
| 8" GATE VALVE/CAP | 53' |
| 8" 45° BEND | 10' |
| 8" 90° BEND | 22' |
| 8" x 8" x 4" TEE | 19' |
| 8" x 8" x 6" TEE | 34' |
| 8" x 8" x 8" TEE | 48' |
| 10" x 8" REDUCER | 22' |
| 10" x 10" x 6" TEE | 32' |
| 12" GATE VALVE/CAP | 76' |
| 12" x 12" x 6" TEE | 30' |
| 6" - 4" REDUCER | 21' |
| 10" - 4" REDUCER | 52' |

MATERIALS:

SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC DR18

NOTE:

1. RESTRAINED JOINTS ANALYZED WITH TYPE SM SOIL, 1.5 SAFETY FACTOR, 42" MIN BURY, TRENCH TYPE 4, AND WITH 150 PSI MAX PRESSURE.
2. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
3. ALL SERVICE/FIRE LINES SHALL BE RESTRAINED THE ENTIRE DISTANCE FROM THE FITTING TO THE CAP.
4. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED.
5. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS TO THE SPECIFIED DISTANCE LISTED IN THE RESTRAINED JOINT TABLE (THIS SHEET).
6. THE CONTRACTOR SHALL TREAT CONNECTIONS TO EXISTING LINES AS A CAP WHEN CALCULATING RESTRAINING LENGTH.

Bohannan ▲ Huston
www.bhinc.com 800.877.5332

fbt | architects
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**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

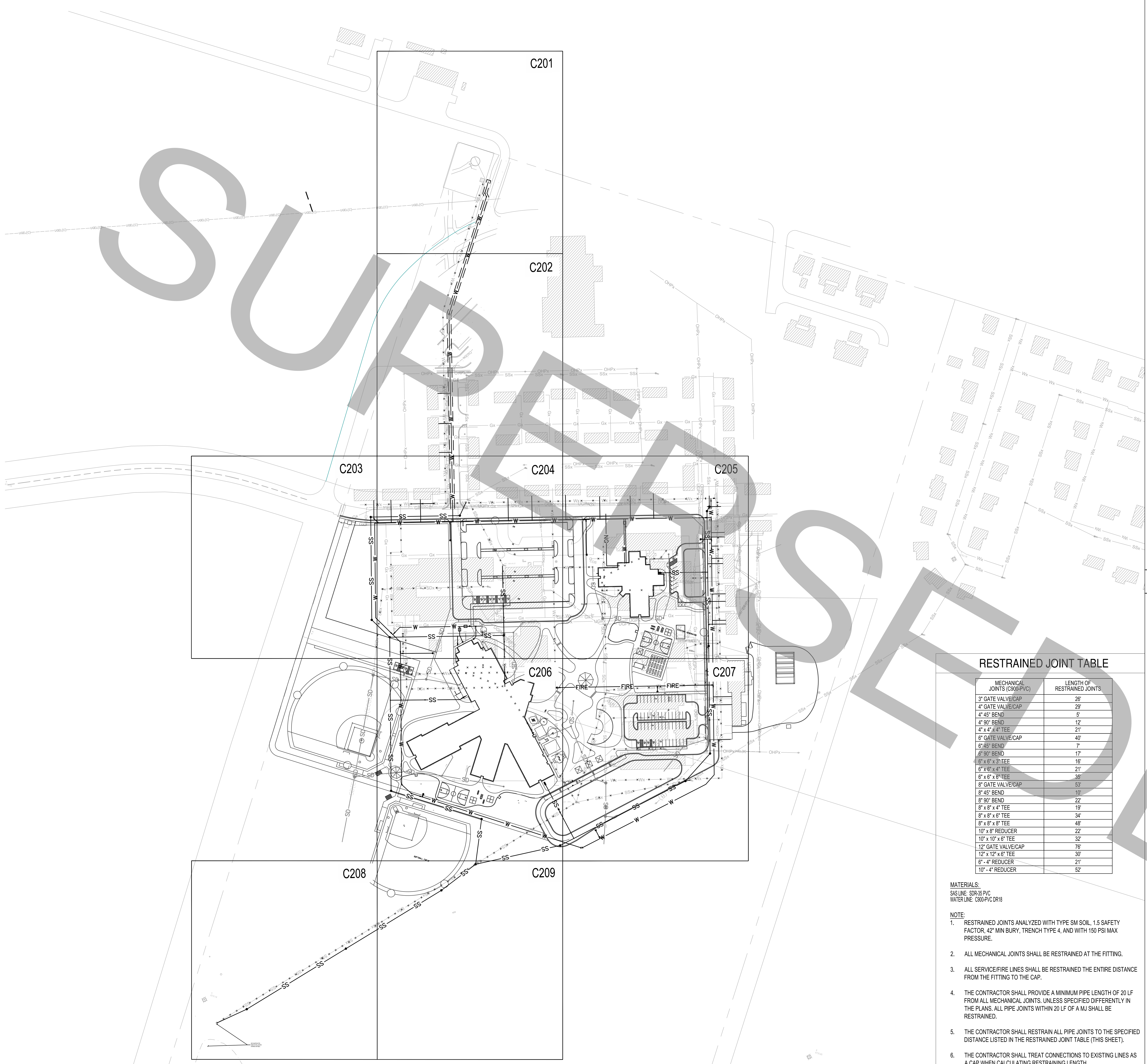
ISSUE:
DATE: 08/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

OVERALL UTILITY PLAN

C200

School Information



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| 6" 90° BEND | 17' |
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| 6" x 6" x 4" TEE | 21' |
| 6" x 6" x 6" TEE | 35' |
| 8" GATE VALVE/CAP | 53' |
| 8" 45° BEND | 10' |
| 8" 90° BEND | 22' |
| 8" x 8" x 4" TEE | 19' |
| 8" x 8" x 6" TEE | 34' |
| 8" x 8" x 8" TEE | 48' |
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## LEGEND

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| ⋈ | PROPOSED VALVE |
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| FH | PROPOSED HYDRANT |
| ⊏ | PROPOSED CAP |
| W | PROPOSED WATER METER |
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| ♁ | REMOTE FIRE DEPARTMENT CONNECTION |
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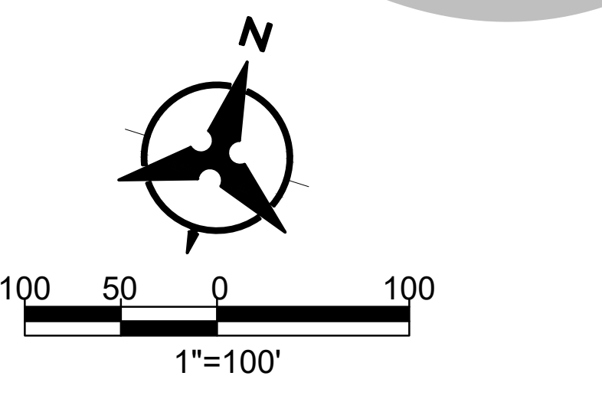
| —×—×— | UTILITY LINE DEMOLITION |



Bohannan ▲ Huston
www.bhinc.com
800.877.5332

**fbt | architects**
MAIL: 6501 Americas Pkwy NE., Ste. 300
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CONSULTANT

**Architecture**
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One Park Square
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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 08/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

OVERALL UTILITY PLAN

C200

School Information

08/27/2020

Tue, 15-Sep-2020 - 11:41:am, Plotted by: OBROWN
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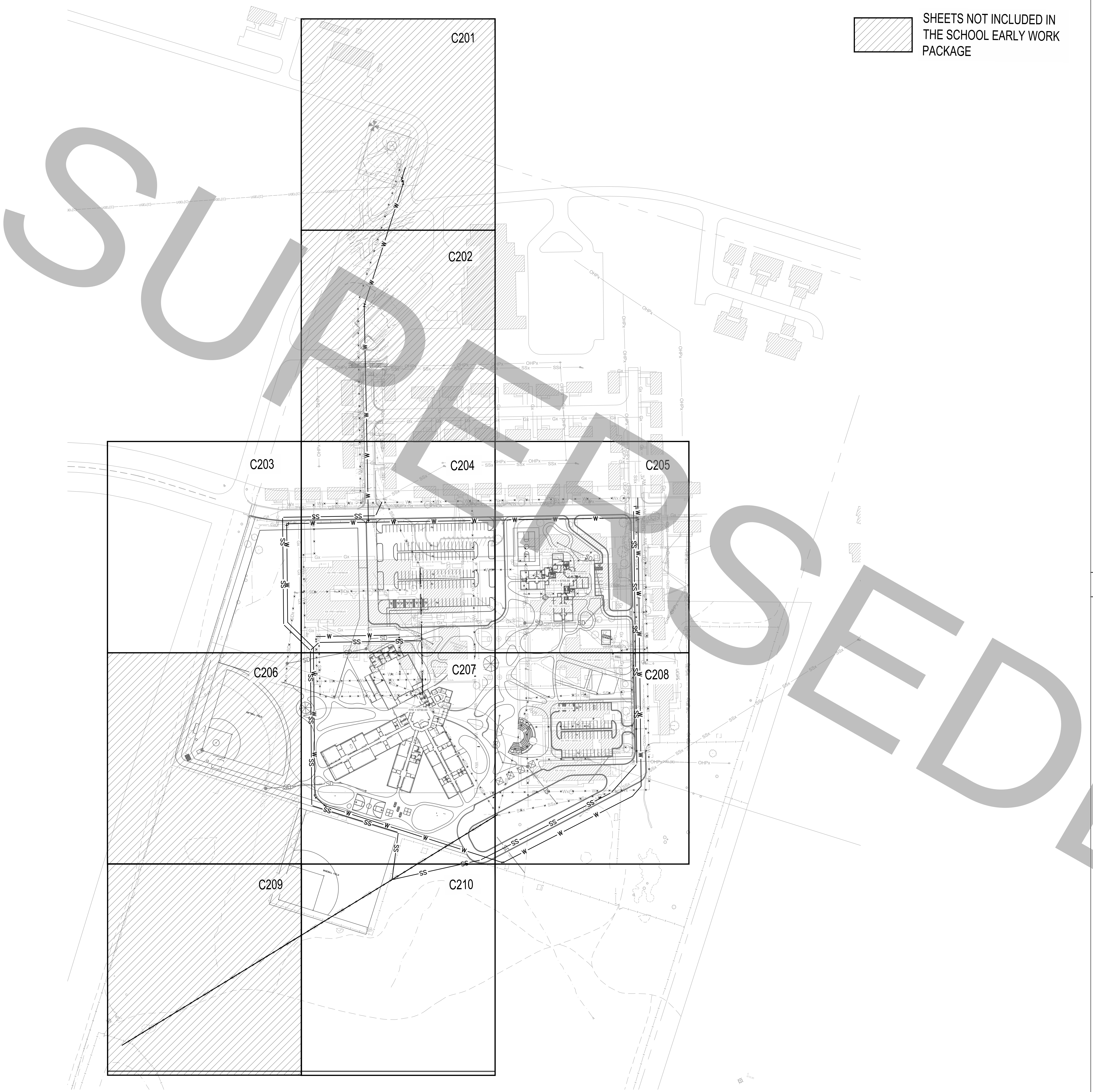
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## UTILITY NOTES

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO MECHANICAL UTILITIES AS SHOWN ON THIS PLAN INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEANOUT PADS, SERVICE STOPS AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING. ANY WORK NOT ACCEPTED BY THE ARCHITECT OR ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED.
2. MINIMUM DEPTHS OF COVER SHALL BE: 42" FOR WATER LINES AND 48" FOR SEWER, EXCEPT AT BUILDING CONNECTION.
3. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED OF HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE IAPMO UNIFORM PLUMBING CODE (2015 EDITION) & NFPA 24 (2018 EDITION).
4. UTILITY LINES SHALL BE INSTALLED PRIOR TO PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALK, AS APPLICABLE.
5. ROUGH GRADING OF SITE (±0.5') SHALL BE COMPLETED PRIOR TO INSTALLATION OF UTILITY LINES.
6. CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTIONS TO BUILDING DRAIN LINES AND ALL NECESSARY FITTINGS.
7. ALL VALVES SHALL BE ANCHORED PER NMAPWA STANDARDS.
8. FIRE WATER LINES SHALL USE PIPE MATERIALS UNDERWRITERS LABORATORIES LISTED AND APPROVED FOR FIRE SERVICE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER METER, FIRE WATER LINE, AND SEWER HOOKUP FEES FOR INSTALLATIONS. OWNER SHALL BE RESPONSIBLE FOR UTILITY EXPANSION CHARGES, PRORATA AND OTHER SPECIAL ASSESSMENTS.
10. CONTRACTOR SHALL VERIFY INVERTS AND LOCATIONS OF EXISTING WATER/SAS LINES PRIOR TO BEGINNING WORK. ALL CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO BEGINNING WORK.
11. MINIMUM HORIZONTAL AND VERTICAL SEPARATIONS PER NTUA STANDARDS.
12. ALL WATER AND SANITARY SEWER WORK DETAILED SHALL BE CONSTRUCTED PER NMAPWA STANDARDS AND SPECIFICATIONS.
13. UTILITIES WITHIN BIA RIGHT-OF-WAY SHALL REQUIRE A BIA PERMIT AND CONSTRUCTION SHALL ADHERE TO ALL APPLICABLE PERMIT REQUIREMENTS.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION INSPECTOR.
15. CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION OF FIRE SERVICE LINES, AND PRIOR TO TESTING AND INSPECTION OF ALL WATER & WASTEWATER LINES. CONTRACTOR SHALL COMPLETE, SIGN, AND SUBMIT THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" IN ACCORDANCE WITH NFPA 24.
16. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION.

## LEGEND

| | |
|---|---|
| — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| W | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
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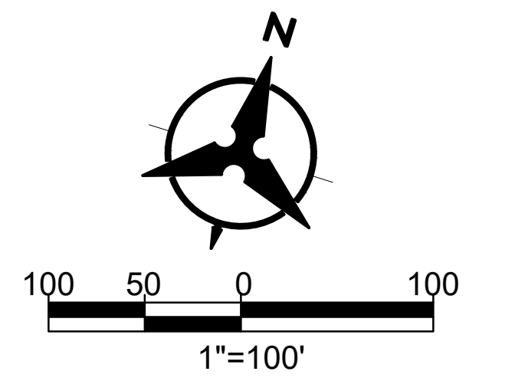

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**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 6/16/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

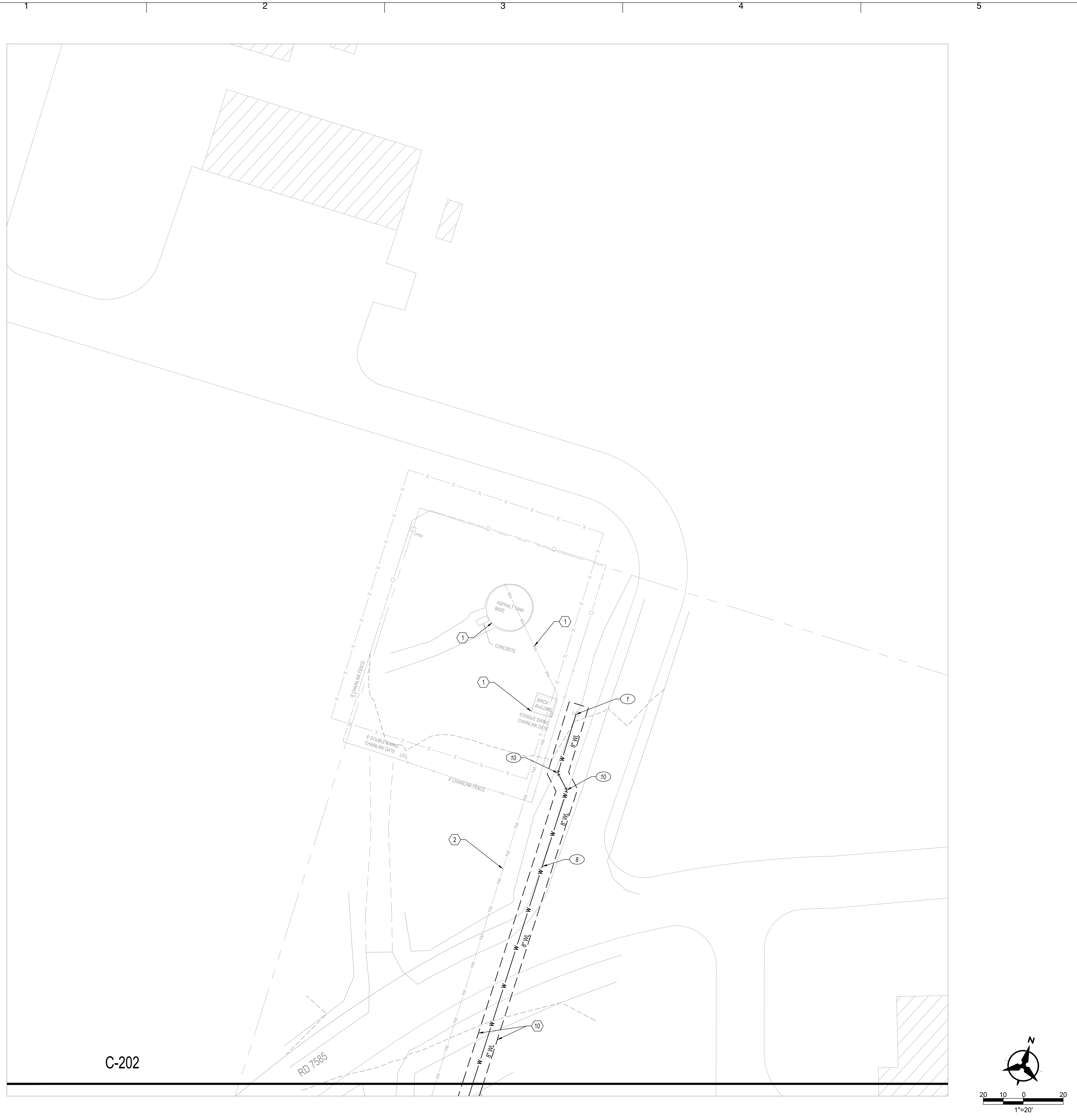
SHEET TITLE

OVERALL UTILITY PLAN

C200

6/16/2020

School Information



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
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12. INSTALL 11.25° MJ, DI, SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

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2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
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7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
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## DEMOLITION KEYED NOTES

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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 08/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

UTILITY PLAN

C201

Wed, 23-Sep-2020 - 10:20:am, Plotted by: OBROWN
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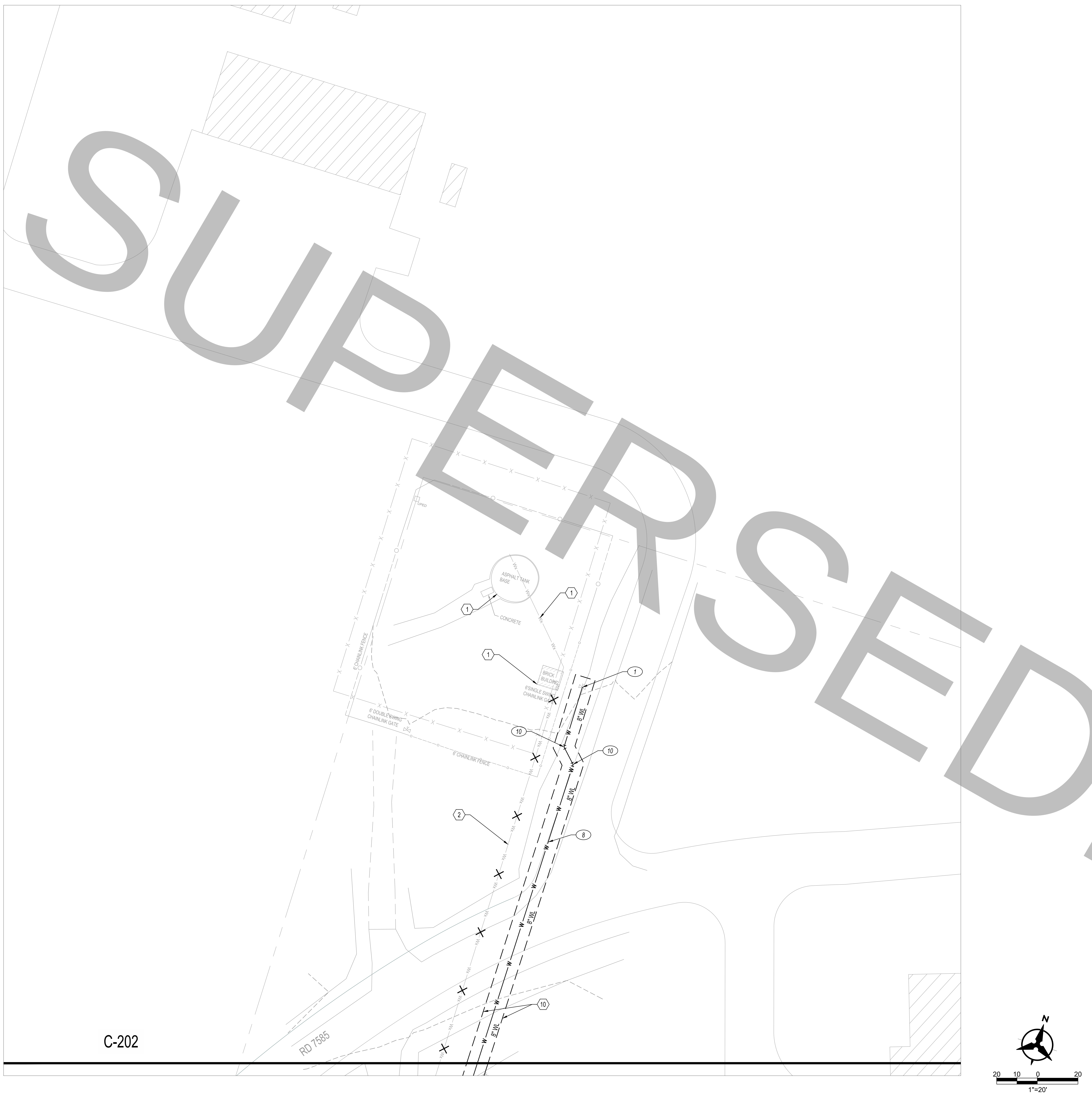
08/27/2020

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



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NOT FOR CONSTRUCTION

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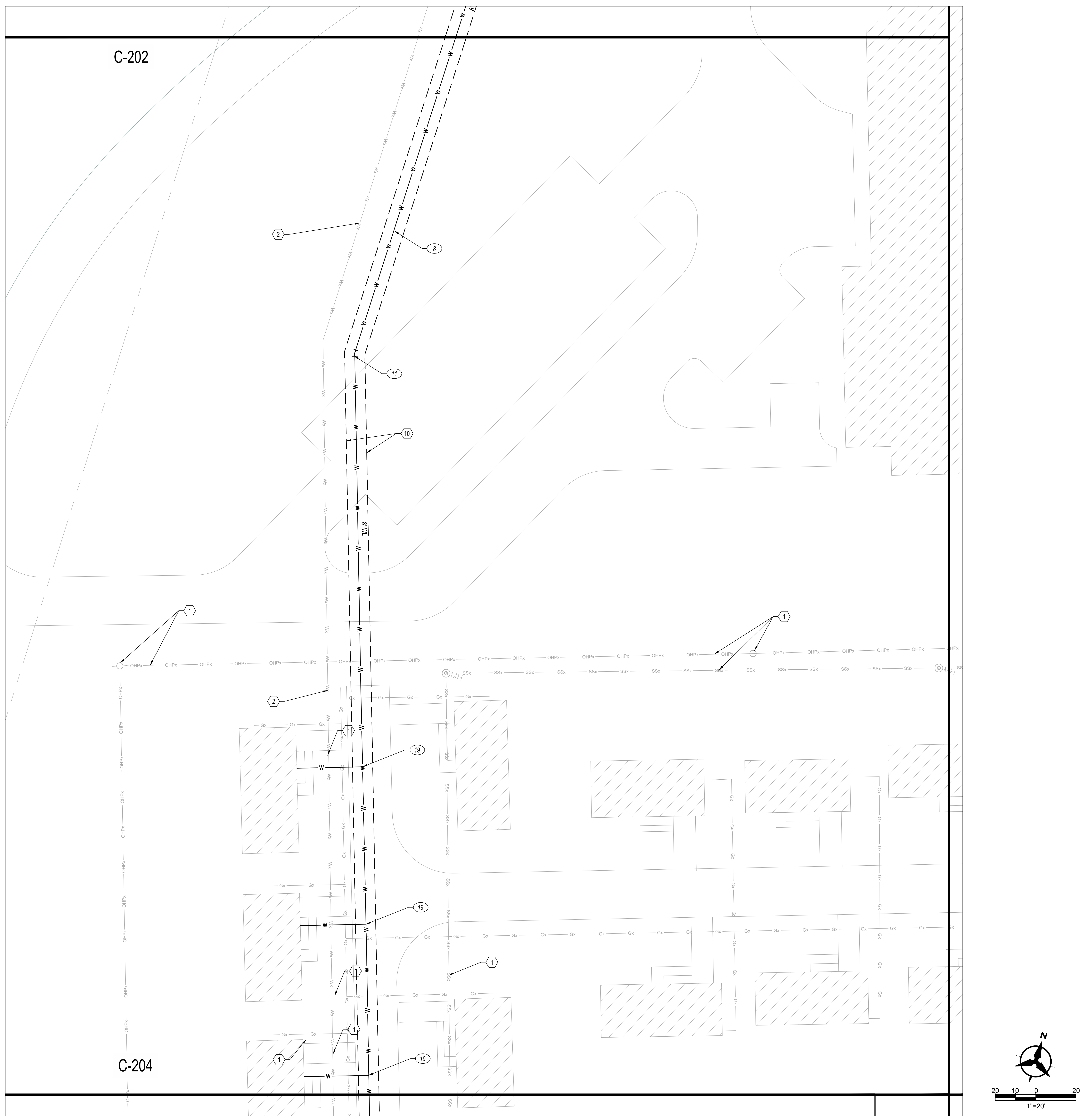
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 6/16/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

UTILITY PLAN

C202

School Information

08/27/2020

Wed, 23-Sep-2020 - 10:21:am, Plotted by: OBROWN
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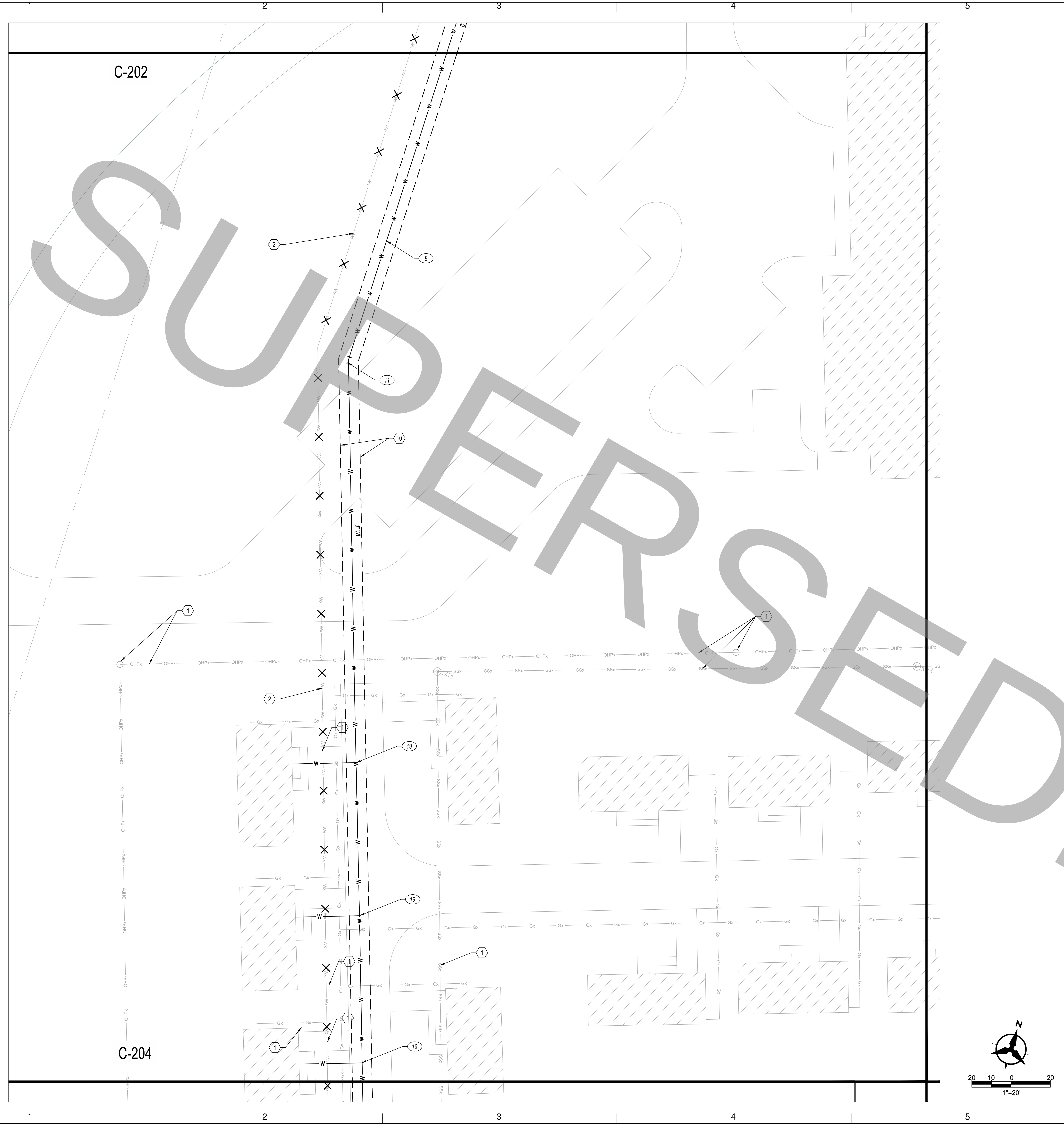

## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ W | PROPOSED PIV |
| ◯ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan Huston**
www.bhinc.com 800.877.5332

**fbt | architects**
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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**DESIGN DEVELOPMENT**
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| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

UTILITY PLAN

C202

School Information

Tue, 15-Sep-2020 - 11:43:am, Plotted by: OBROWN
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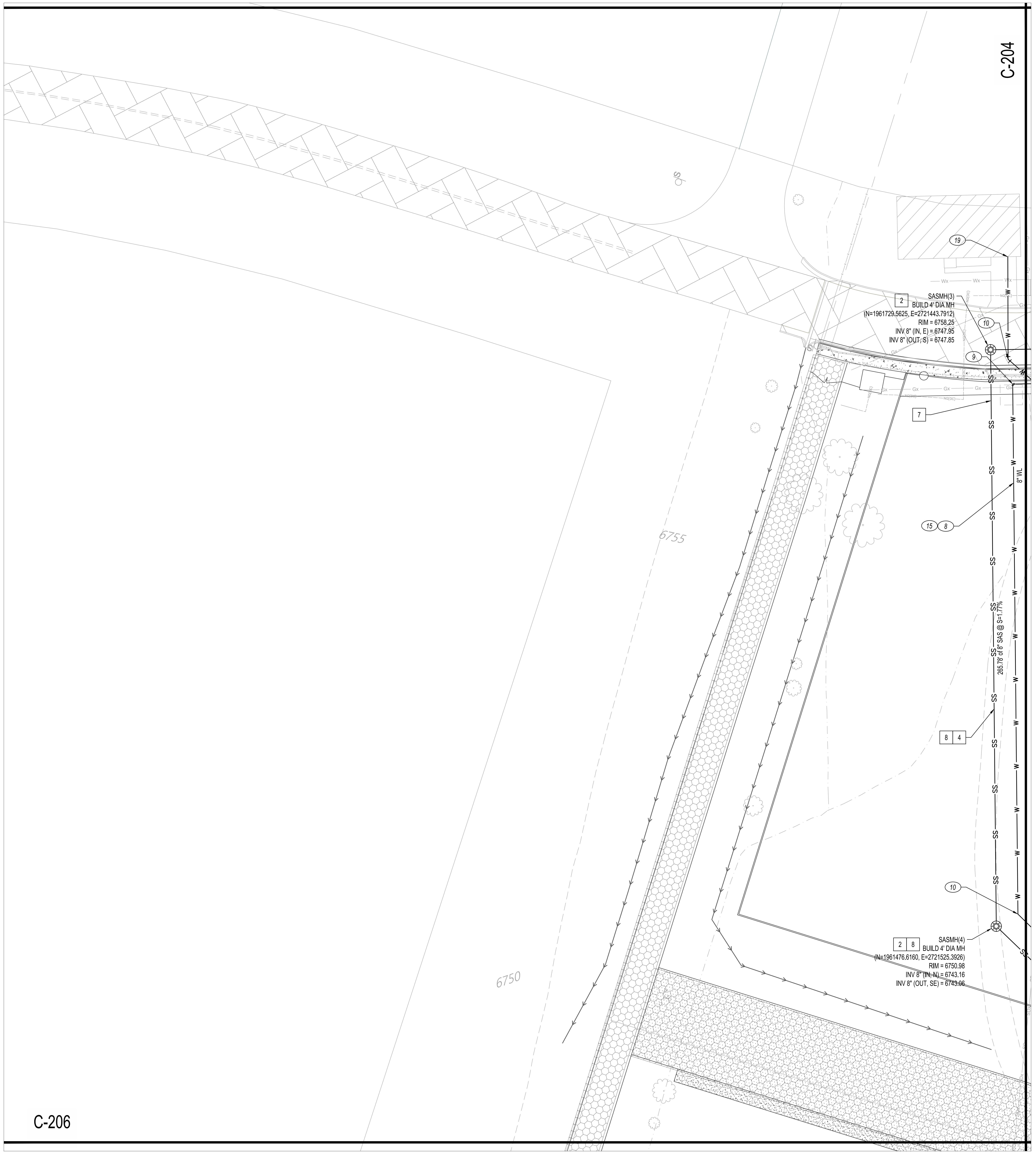
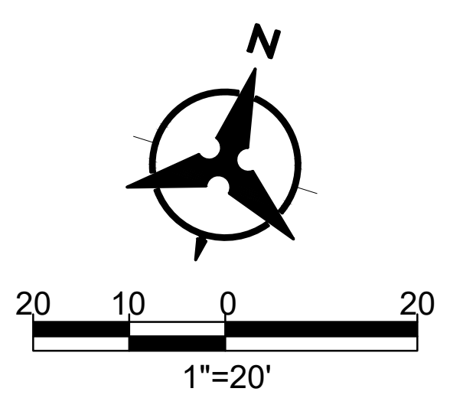
08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| W ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W ⬡ | PROPOSED WATER METER |
| W ⋈ | PROPOSED PIV |
| ⋎○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

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www.bhinc.com 800.877.5332

fbt | architects
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CONSULTANT

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One Park Square
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p_ 505.212.9126

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**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
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**DESIGN DEVELOPMENT**
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ISSUE:
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SHEET TITLE

UTILITY PLAN

C203

08/27/2020

Wed, 23-Sep-2020 - 10:23:am, Plotted by: OBROWN
P:\20210041\CDP\Plans\General\Onsite Construction Plans\20210041_UP03.dwg

School Information

**DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL**

08/27/2020

Tue, 15-Sep-2020 - 11:45:am, Plotted by: OBROWN
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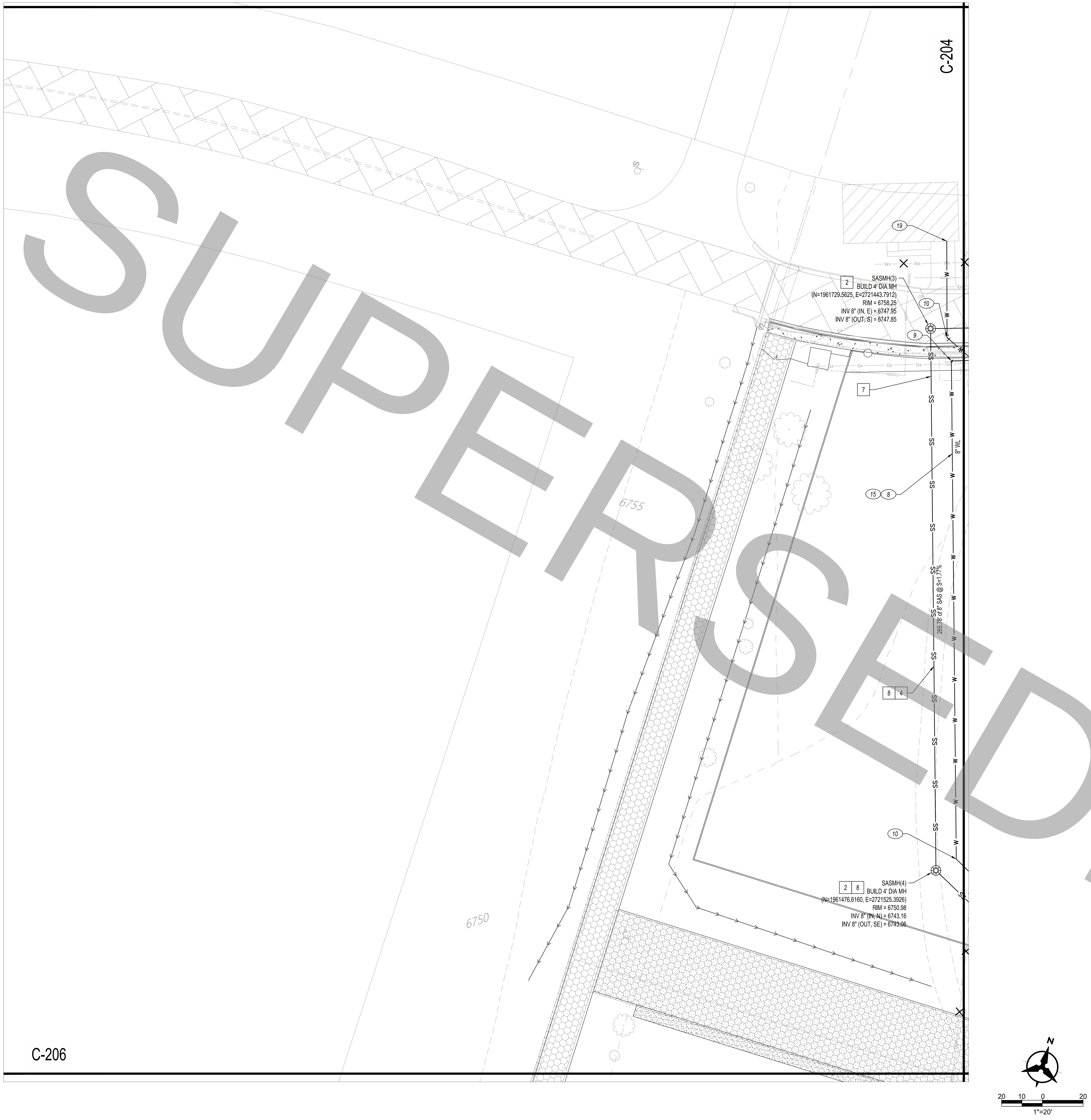

## ○ WATERLINE KEYNOTES

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2. INSTALL 1 - 8"x8"x6" TEE.
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12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
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6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| ◎ | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| ⊙ | PROPOSED HYDRANT |
| ⊏ | PROPOSED CAP |
| ⊙ | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ⊙ | REMOTE FIRE DEPARTMENT CONNECTION |
| ▭ | GREASE INTERCEPTOR |
| —×—×— | UTILITY LINE DEMOLITION |

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www.bhinc.com 800.877.5332

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
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CONSULTANT

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**DESIGN DEVELOPMENT**
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AUGUST 2020

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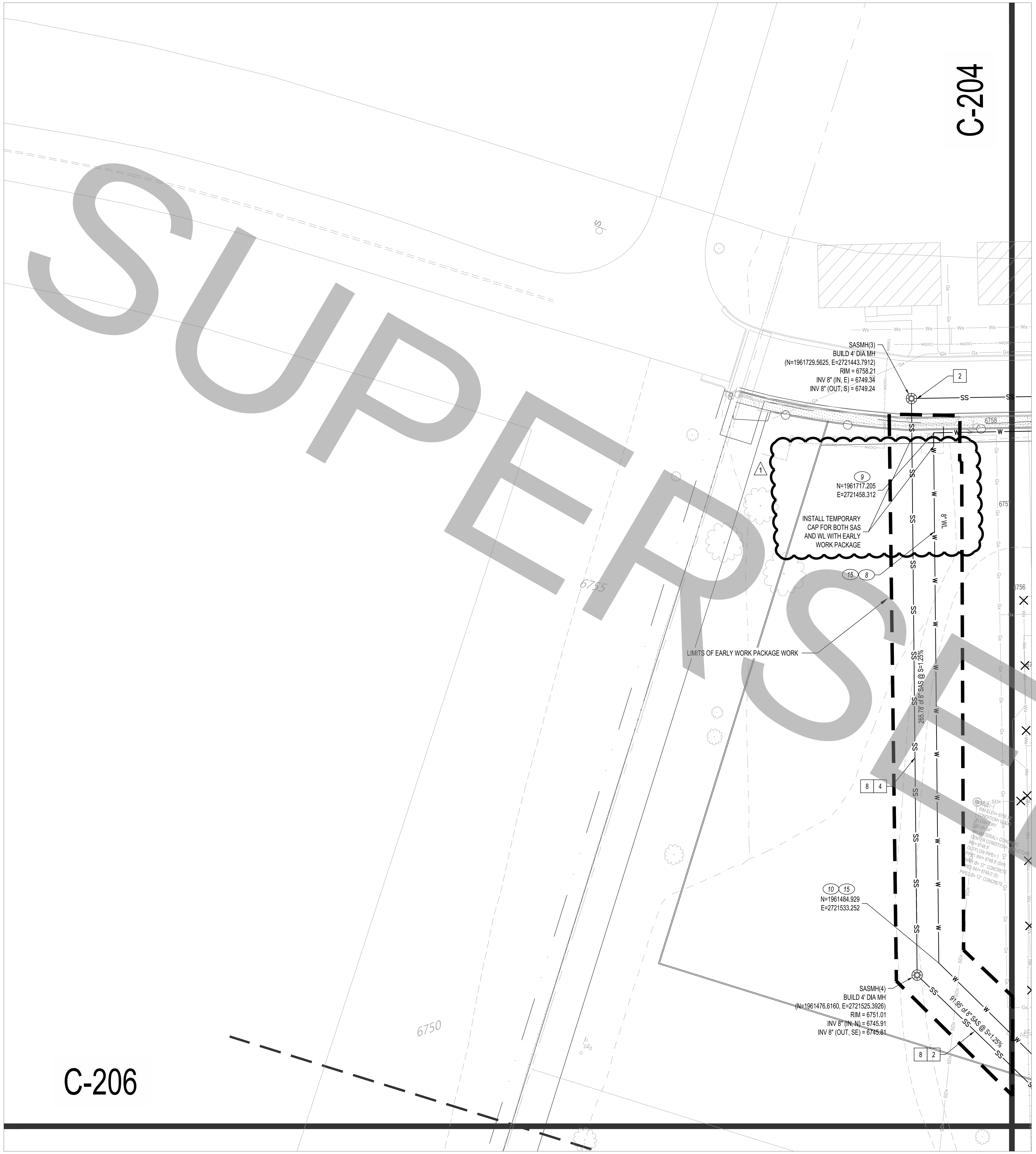
SHEET TITLE

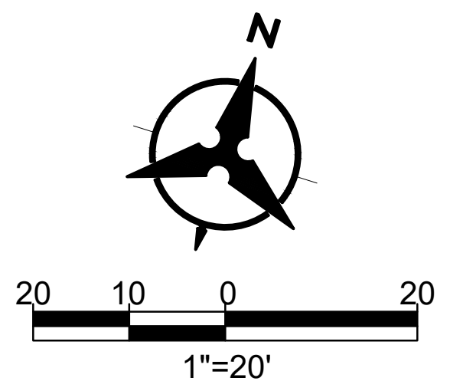
UTILITY PLAN

C203

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





## WATERLINE KEYNOTES

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2. INSTALL 1 - 8"x8"x6" TEE.
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6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI, SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
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14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.

## SANITARY SEWER KEYNOTES

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6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. INSTALL 8 x 8 x 4 TEE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
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"FOR EACH CHILD SUCCESS"

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| CHECKED BY: | OB |

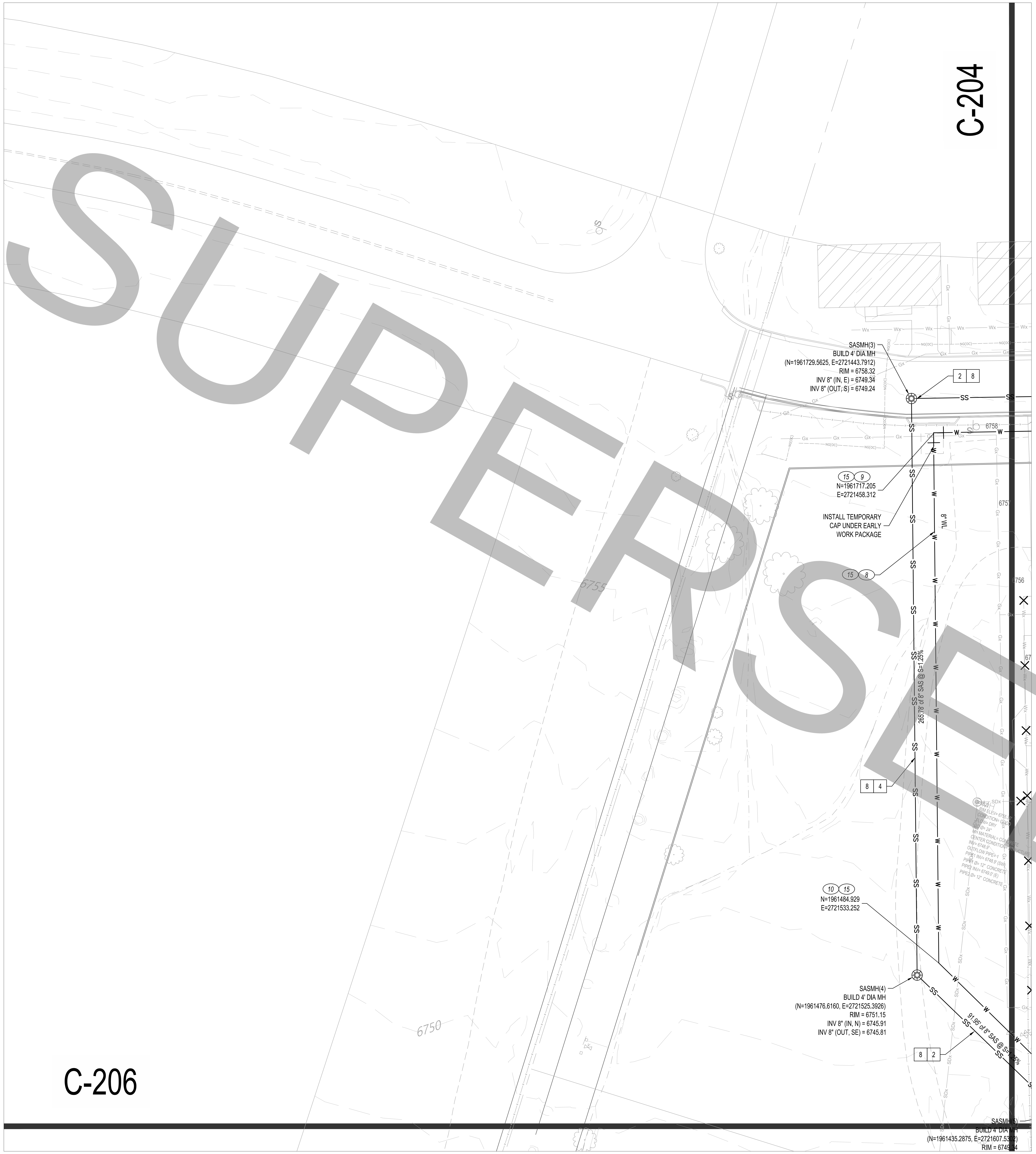
SHEET TITLE

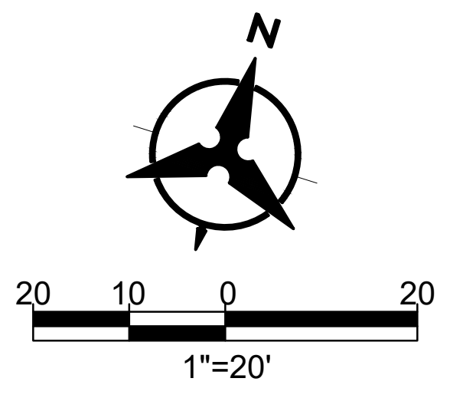
UTILITY PLAN

C203

8/7/2020

School Information





## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x3" MJ,DI, TEE, 1 - 3" GATE VALVE.
3. INSTALL 1- 8"x8"x6" MJ, DI, TEE. INSTALL MJ GATE VALVES; 1- 8" GV ON THE MAIN AND 1 - 6" GV ON THE 6" BRANCH.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| ◎ | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| ○ | PROPOSED HYDRANT |
| ⊐ | PROPOSED CAP |
| ○ | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| ▭ | GREASE INTERCEPTOR |
| —×—×— | UTILITY LINE DEMOLITION |

Bohannan ▲ Huston
www.bhinc.com
800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 6/16/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

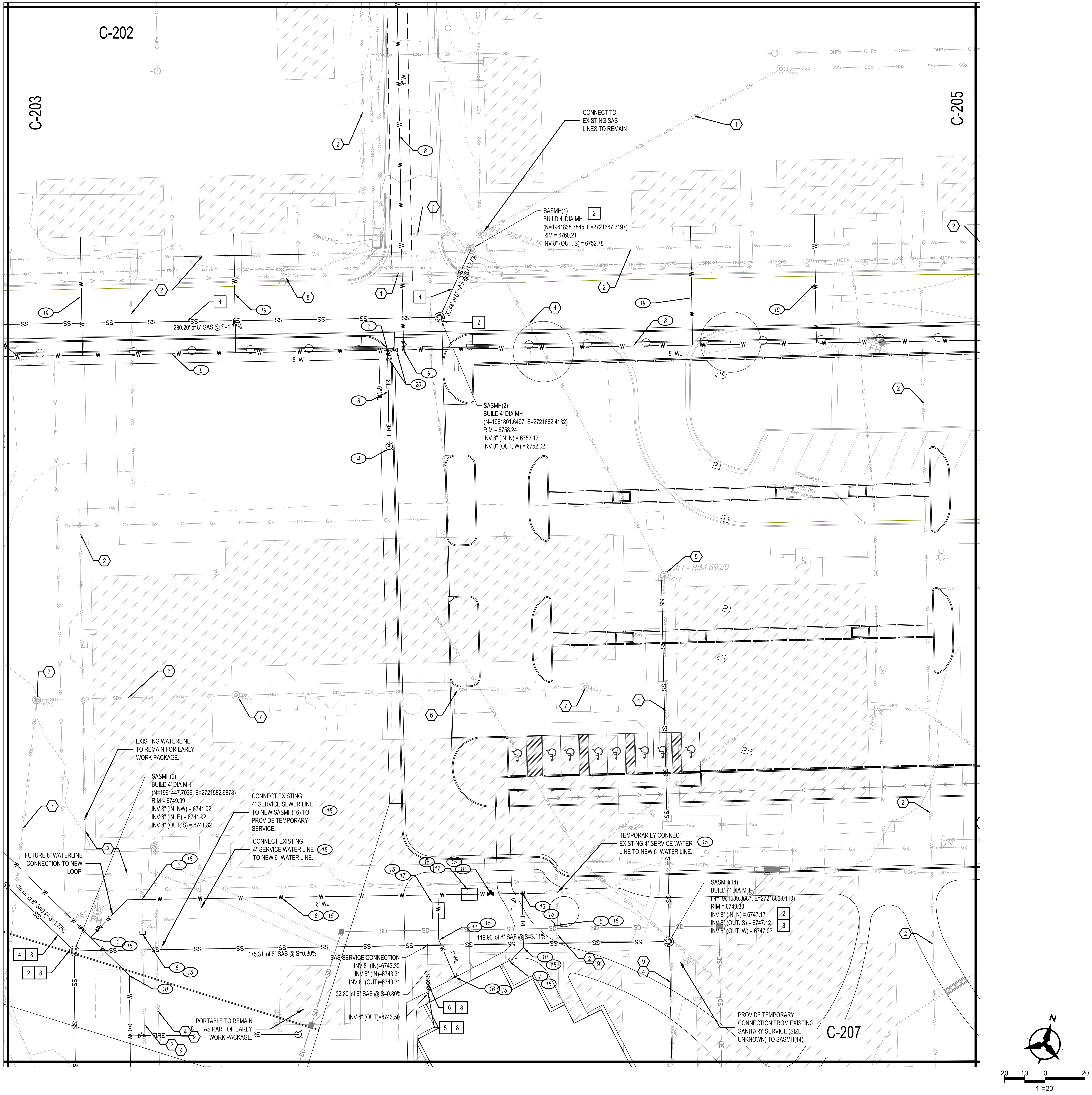
UTILITY PLAN

C203

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

08/27/2020


C-202
C-203
C-205
C-207
CONNECT TO EXISTING SAS LINES TO REMAIN
SASMH(1) BUILD 4' DIA MH (N=1961838.7845, E=2721667.2197) RIM = 6760.21 INV 8" (OUT, S) = 6752.78
SASMH(2) BUILD 4' DIA MH (N=1961801.6497, E=2721662.4132) RIM = 6758.24 INV 8" (IN, N) = 6752.12 INV 8" (OUT, W) = 6752.02
230.20' of 8" SAS @ S=1.77%
37.44' of 8" SAS @ S=1.77%
8" WL
6" WL
4" WL
6" FL
FIRE
MAILBOX PAD
EXISTING WATERLINE TO REMAIN FOR EARLY WORK PACKAGE.
SASMH(5) BUILD 4' DIA MH (N=1961447.7039, E=2721582.9878) RIM = 6749.99 INV 8" (IN, NW) = 6741.92 INV 8" (IN, E) = 6741.92 INV 8" (OUT, S) = 6741.82
CONNECT EXISTING 4" SERVICE SEWER LINE TO NEW SASMH(16) TO PROVIDE TEMPORARY SERVICE.
CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
FUTURE 6" WATERLINE CONNECTION TO NEW LOOP.
64.44' of 8" SAS @ S=1.77%
175.31' of 8" SAS @ S=0.80%
SAS SERVICE CONNECTION INV 8" (IN)=6743.30 INV 6" (IN)=6743.31 INV 8" (OUT)=6743.31
23.80' of 6" SAS @ S=0.80%
INV 6" (OUT)=6743.50
PORTABLE TO REMAIN AS PART OF EARLY WORK PACKAGE.
119.90' of 8" SAS @ S=3.11%
TEMPORARILY CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
SASMH(14) BUILD 4' DIA MH (N=1961539.8687, E=2721863.0110) RIM = 6749.30 INV 8" (IN, N) = 6747.17 INV 8" (OUT, S) = 6747.12 INV 8" (OUT, W) = 6747.02
PROVIDE TEMPORARY CONNECTION FROM EXISTING SANITARY SERVICE (SIZE UNKNOWN) TO SASMH(14)
MH - RIM 72.25
MH - RIM 69.20
STORM INLET
21
25
29
N
20 10 0 20
1"=20'

1 2 3 4 5 6

## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| | PROPOSED HYDRANT |
| | PROPOSED CAP |
| | PROPOSED WATER METER |
| | PROPOSED PIV |
| | REMOTE FIRE DEPARTMENT CONNECTION |
| | GREASE INTERCEPTOR |
| —×—×— | UTILITY LINE DEMOLITION |

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
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CONSULTANT

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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
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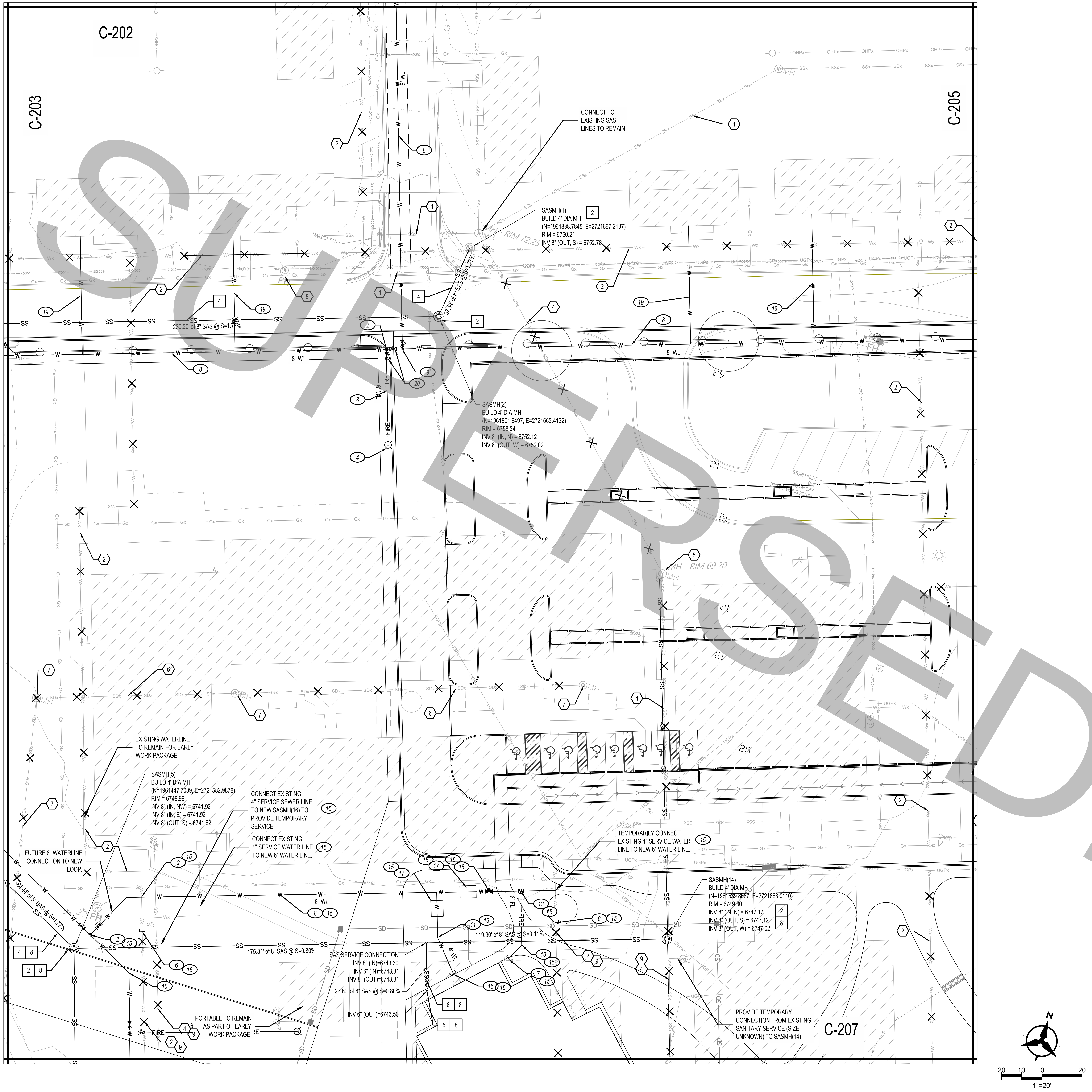
**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

C204

School Information


C-202
C-203
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C-207
CONNECT TO EXISTING SAS LINES TO REMAIN
SASMH(1)
BUILD 4' DIA MH
(N=1961838.7845, E=2721667.2197)
RIM = 6760.21
INV 8" (OUT, S) = 6752.78
37.44' of 8" SAS @ S=1.77%
230.20' of 8" SAS @ S=1.77%
8" WL
SASMH(2)
BUILD 4' DIA MH
(N=1961801.6497, E=2721662.4132)
RIM = 6758.24
INV 8" (IN, N) = 6752.12
INV 8" (OUT, W) = 6752.02
FIRE
EXISTING WATERLINE TO REMAIN FOR EARLY WORK PACKAGE.
SASMH(5)
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CONNECT EXISTING 4" SERVICE SEWER LINE TO NEW SASMH(16) TO PROVIDE TEMPORARY SERVICE.
CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
FUTURE 6" WATERLINE CONNECTION TO NEW LOOP.
164.44' of 8" SAS @ S=1.77%
6" WL
175.31' of 8" SAS @ S=0.80%
SAS SERVICE CONNECTION
INV 8" (IN)=6743.30
INV 6" (IN)=6743.31
INV 8" (OUT)=6743.31
23.80' of 6" SAS @ S=0.80%
INV 6" (OUT)=6743.50
PORTABLE TO REMAIN AS PART OF EARLY WORK PACKAGE.
4" WL
6" FL
119.90' of 8" SAS @ S=3.11%
TEMPORARILY CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
SASMH(14)
BUILD 4' DIA MH
(N=1961539.8687, E=2721863.0110)
RIM = 6749.30
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PROVIDE TEMPORARY CONNECTION FROM EXISTING SANITARY SERVICE (SIZE UNKNOWN) TO SASMH(14)
MH - RIM 72.25
MH - RIM 69.20
STORM INLET
MAILBOX PAD
N
20 10 0 20
1"=20'

## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
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13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
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## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
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| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
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| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
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AUGUST 2020

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C204

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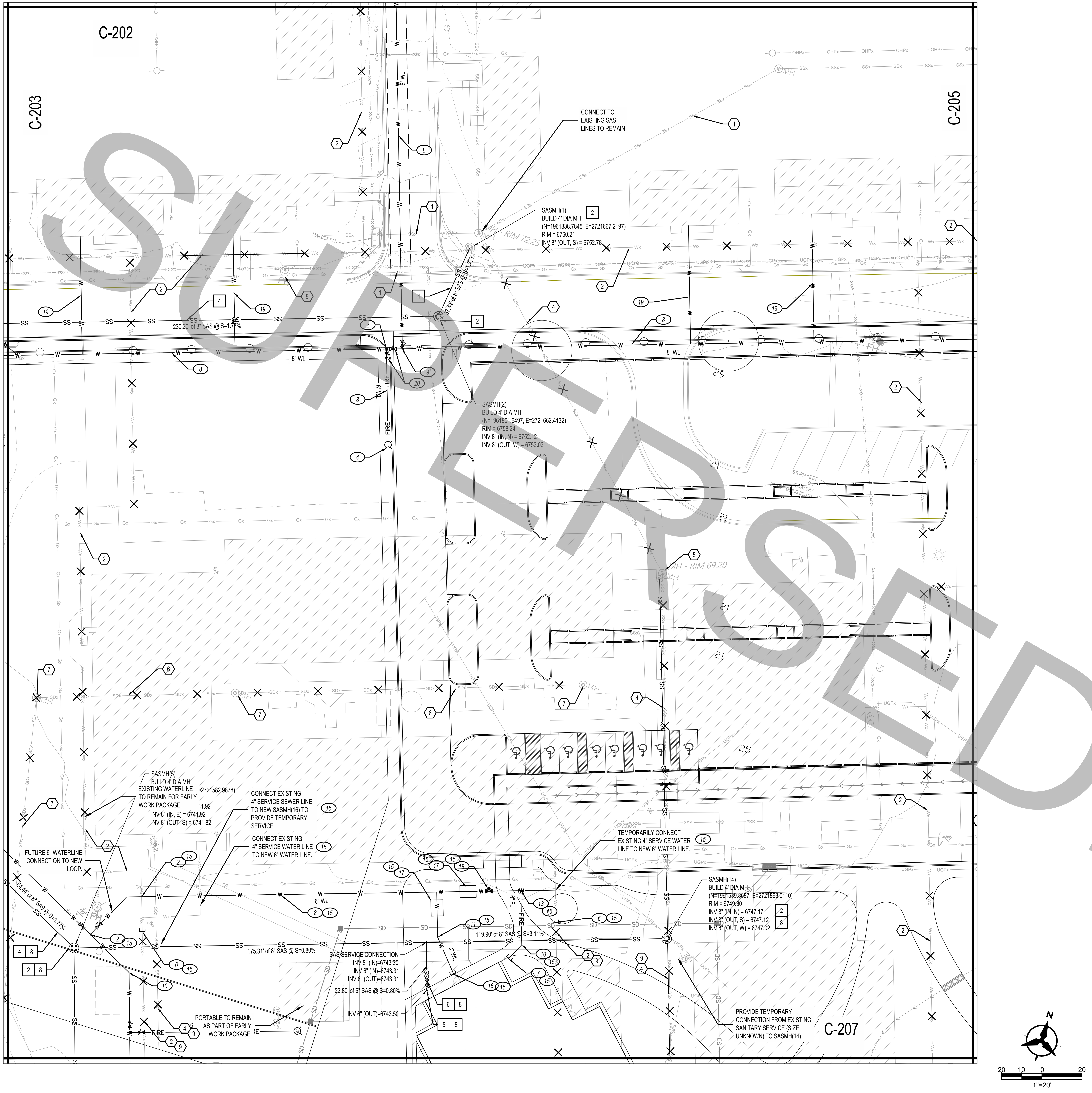
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL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3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ W | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

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CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
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7500 Jefferson Street NE
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p_505.823.1000

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Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

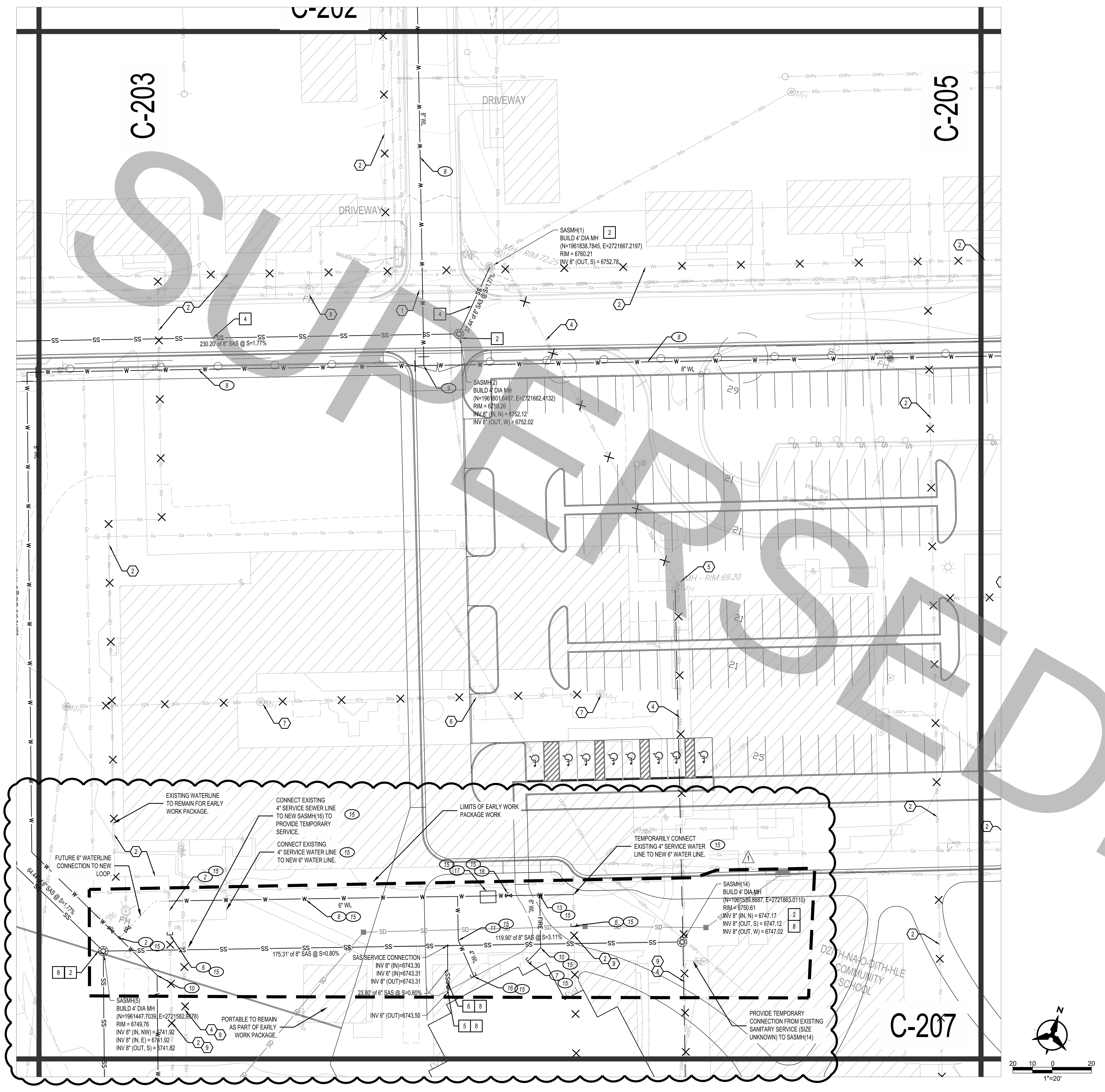
UTILITY PLAN

C204

School Information

08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL


C-202
C-203
C-205
C-207
DRIVEWAY
DRIVEWAY
SASMH(1)
BUILD 4' DIA MH
(N=1961838.7845, E=2721667.2197)
RIM = 6760.21
INV 8" (OUT, S) = 6752.78
MH - RIM 72.25
37.44' of 8" SAS @ S=1.77%
230.20' of 8" SAS @ S=1.77%
SASMH(2)
BUILD 4' DIA MH
(N=1961801.6497, E=2721662.4132)
RIM = 6759.26
INV 8" (IN, N) = 6752.12
INV 8" (OUT, W) = 6752.02
8" WL
8" WL
MH - RIM 69.20
EXISTING WATERLINE TO REMAIN FOR EARLY WORK PACKAGE.
CONNECT EXISTING 4" SERVICE SEWER LINE TO NEW SASMH(16) TO PROVIDE TEMPORARY SERVICE.
CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
LIMITS OF EARLY WORK PACKAGE WORK
FUTURE 6" WATERLINE CONNECTION TO NEW LOOP.
TEMPORARILY CONNECT EXISTING 4" SERVICE WATER LINE TO NEW 6" WATER LINE.
64.44' of 8" SAS @ S=1.77%
6" WL
6" WL
4" WL
FIRE
175.31' of 8" SAS @ S=0.80%
119.90' of 8" SAS @ S=3.11%
SAS SERVICE CONNECTION
INV 8" (IN)=6743.30
INV 6" (IN)=6743.31
INV 8" (OUT)=6743.31
23.80' of 6" SAS @ S=0.80%
INV 6" (OUT)=6743.50
SASMH(5)
BUILD 4' DIA MH
(N=1961447.7039, E=2721582.9878)
RIM = 6749.76
INV 8" (IN, NW) = 6741.92
INV 8" (IN, E) = 6741.92
INV 8" (OUT, S) = 6741.82
PORTABLE TO REMAIN AS PART OF EARLY WORK PACKAGE.
SASMH(14)
BUILD 4' DIA MH
(N=1961539.8687, E=2721863.0110)
RIM = 6750.61
INV 8" (IN, N) = 6747.17
INV 8" (OUT, S) = 6747.12
INV 8" (OUT, W) = 6747.02
PROVIDE TEMPORARY CONNECTION FROM EXISTING SANITARY SERVICE (SIZE UNKNOWN) TO SASMH(14)
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL
N
20 10 0 20
1"=20'

## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
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5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
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13. INSTALL 6"x6"x6" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL SERVICE WATERLINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL FIRE LINE REDUCED PRESSURE BACKFLOW DEVICE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
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4. INSTALL 8" SAS LINE.
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7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
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## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

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|---|---|
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| ⋈ | PROPOSED VALVE |
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| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| ⬡ W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan Huston**
www.bhinc.com
800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
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CONSULTANT

**Architecture**
**FBT Architects**
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Albuquerque, NM 87110
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7500 Jefferson Street NE
Albuquerque, NM, 87109
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**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
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**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 AND #SITE-2 |
| 2 | 8/14/2020 | UPDATED SERVICE CONNECTIONS |

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/16/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

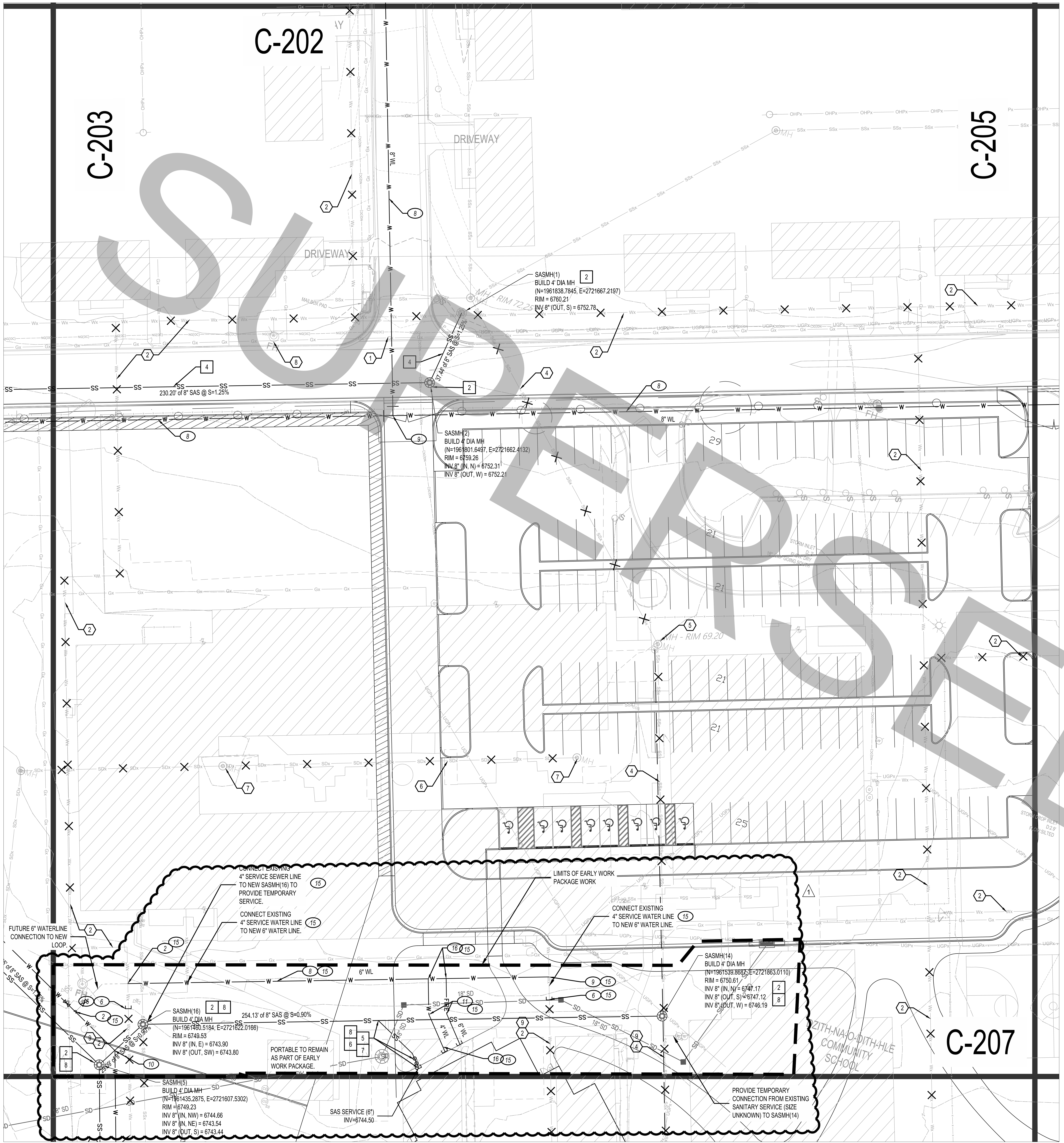
SHEET TITLE

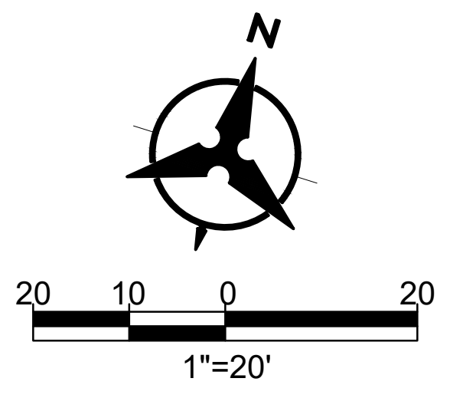
UTILITY PLAN

C204

School Information

8/7/2020





## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
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6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
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13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL 6" FIRE PROTECTION LINE AND 4" SERVICE WATERLINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
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8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
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| CO SS | PROPOSED CLEANOUT |
| — W — | PROPOSED WATER LINE |
| W ⋈ | PROPOSED VALVE |
| — FIRE — | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W ⬡ | PROPOSED WATER METER |
| ⧓ | PROPOSED PIV |
| ♁ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
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CONSULTANT

**Architecture**
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One Park Square
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**Civil**
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Albuquerque, NM, 87109
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Albuquerque, NM, 87109
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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle**
**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 AND #SITE-2 |

| | |
|---|---|
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| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

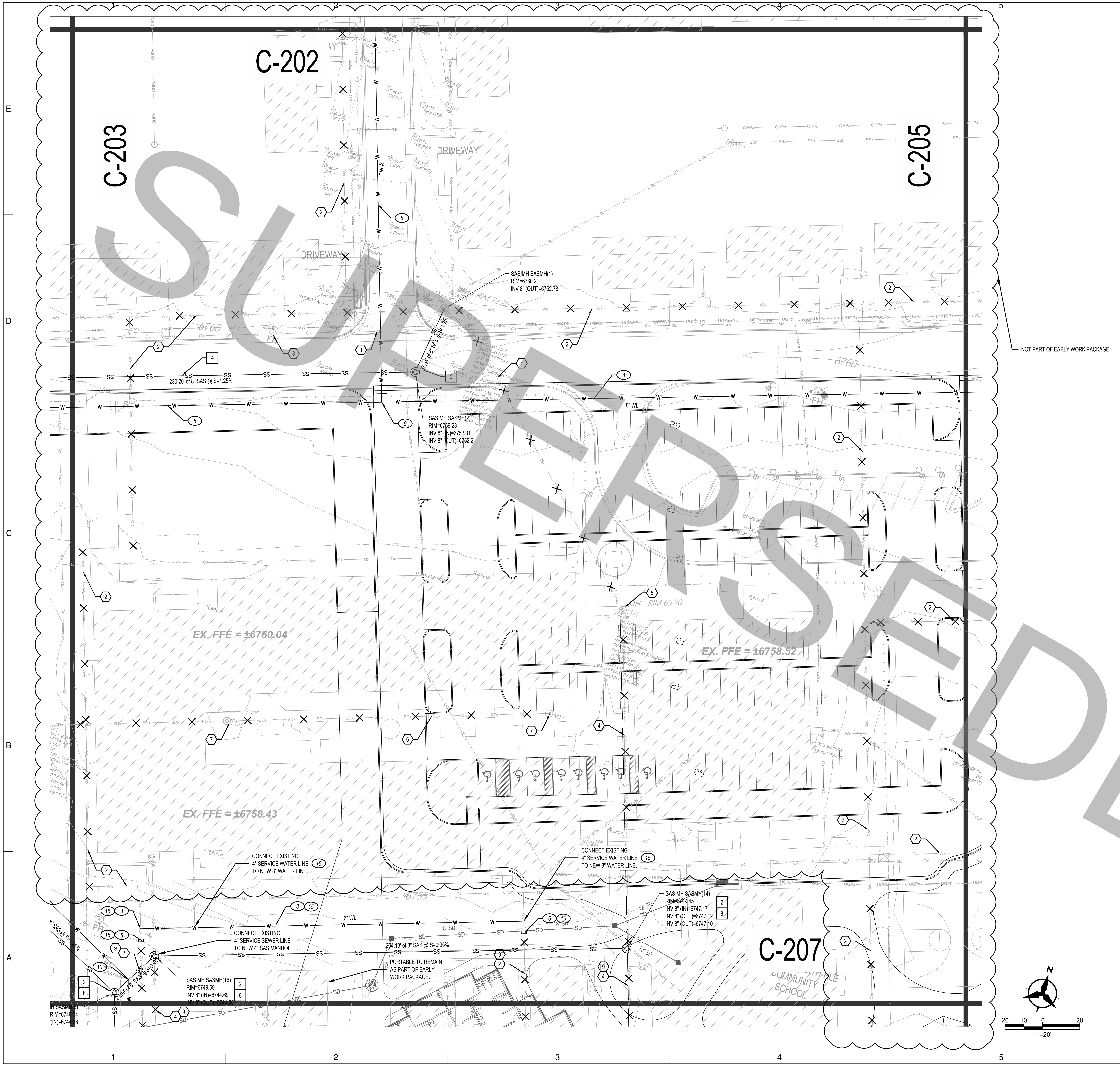
SHEET TITLE

UTILITY PLAN

C204

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

6/16/2020



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**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 6/16/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

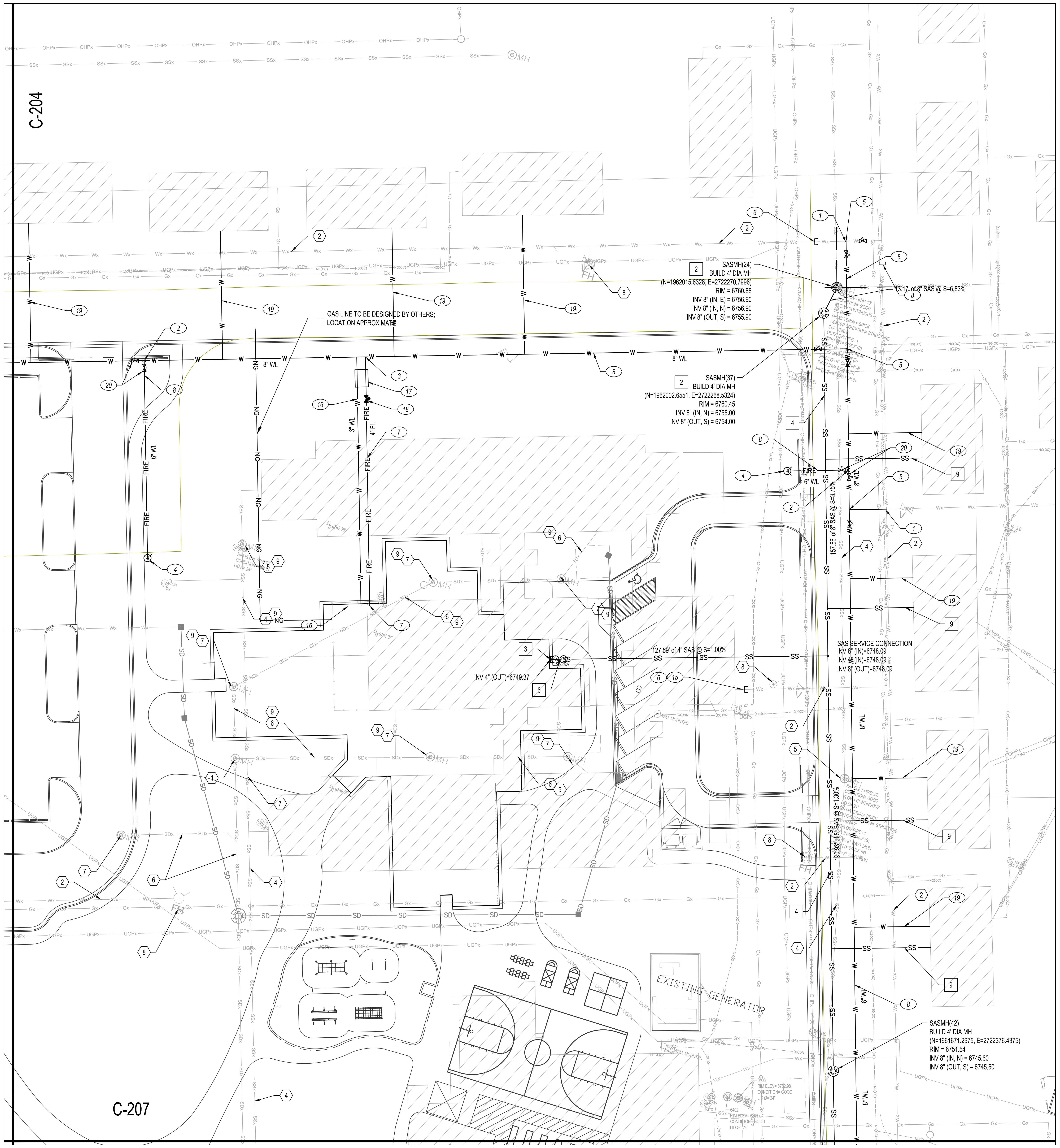
SHEET TITLE

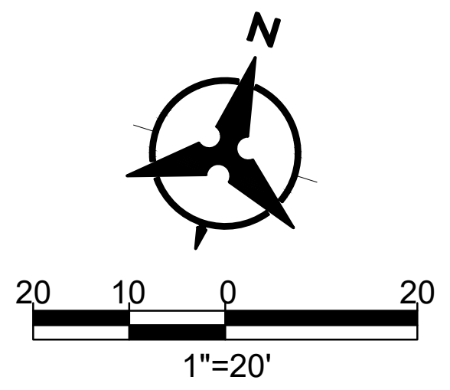
UTILITY PLAN

C204

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





## ⬭ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| ◎ | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| ⊗ | PROPOSED HYDRANT |
| ⊐ | PROPOSED CAP |
| ⊙ | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ⊗ | REMOTE FIRE DEPARTMENT CONNECTION |
| ⊖ | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com
800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
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Albuquerque, NM 87110
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Albuquerque, NM, 87109
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Albuquerque, NM, 87109
p_505.838.4111

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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 8/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

UTILITY PLAN

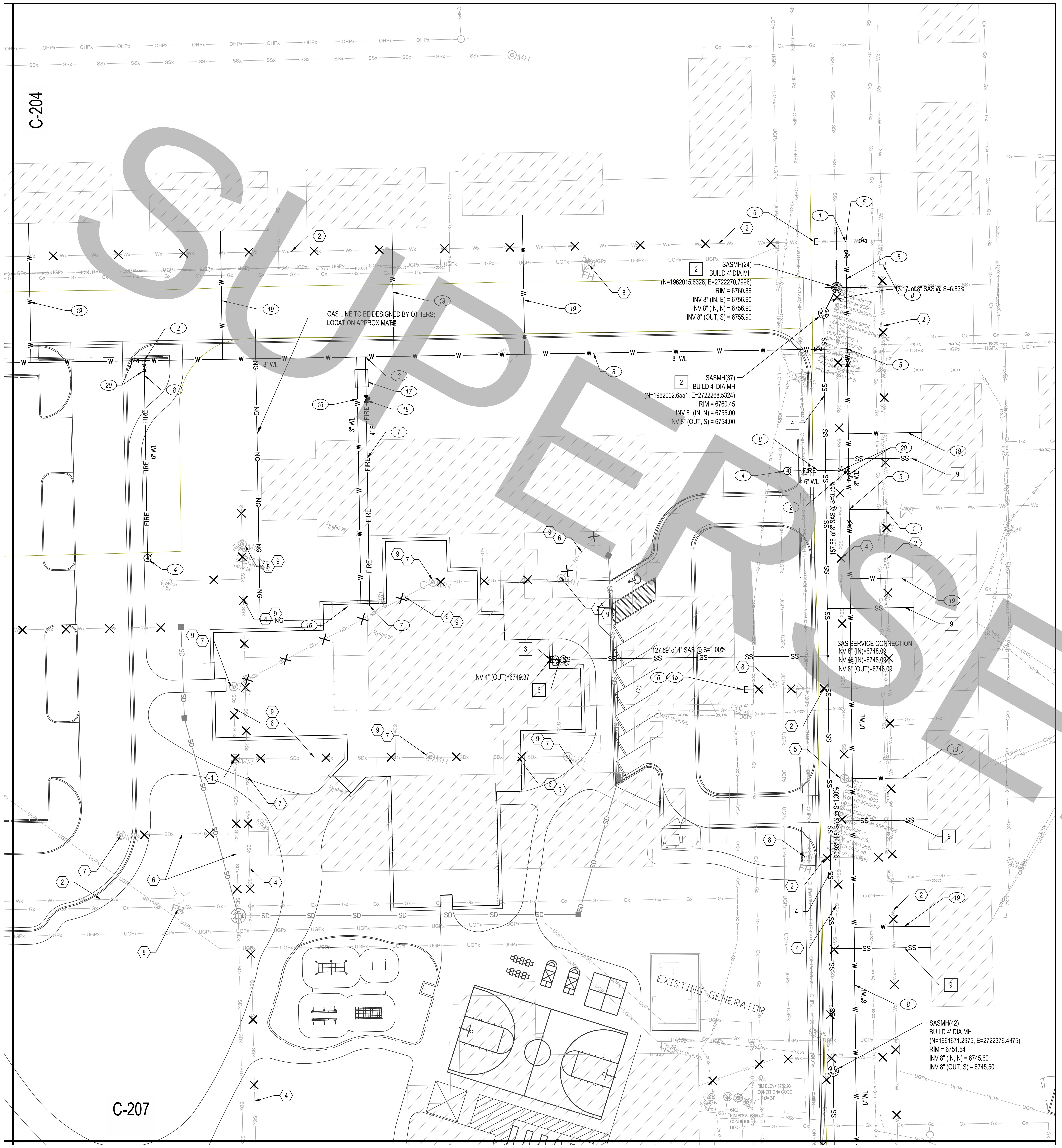
C205

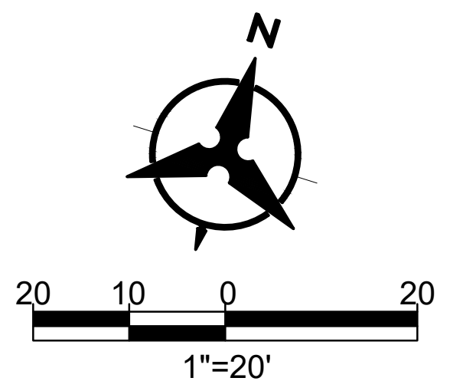
School Information

08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

08/27/2020





## WATERLINE KEYNOTES

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2. INSTALL 1 - 8"x8"x6" TEE.
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6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
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8. INSTALL WATER LINE, SIZE PER PLAN.
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16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
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4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
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10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ⊛ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ W | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

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www.bhinc.com 800.877.5332

fbt | architects
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CONSULTANT

**Architecture**
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**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

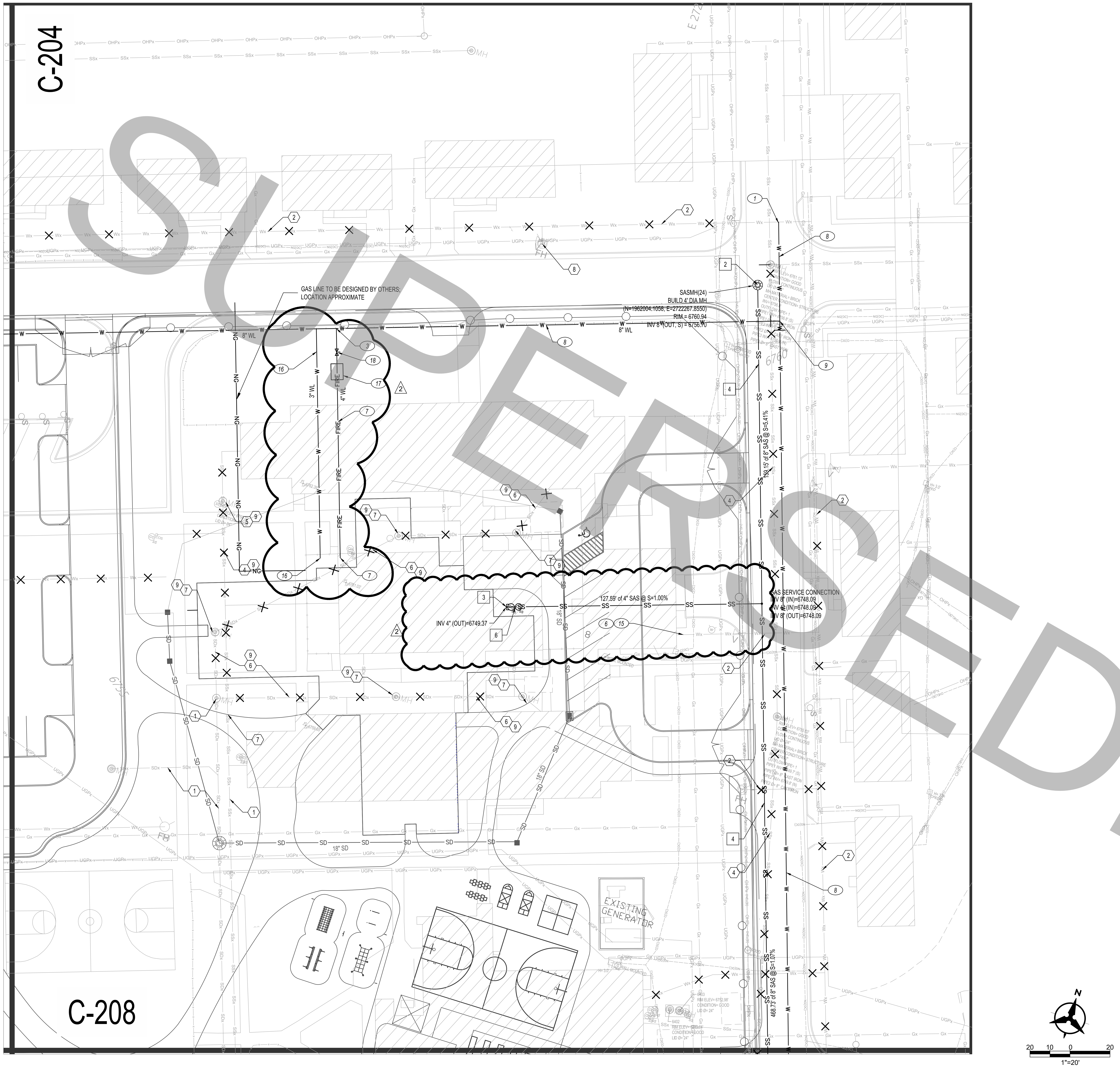
SHEET TITLE

UTILITY PLAN

C205

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
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14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL SERVICE WATERLINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL FIRE LINE REDUCED PRESSURE BACKFLOW DEVICE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
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3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
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| ⋈ | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

Bohannan Huston
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
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CONSULTANT

**Architecture**
**FBT Architects**
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Albuquerque, NM 87110
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7500 Jefferson Street NE
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**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 and #SITE-2 |
| 2 | 8/14/2020 | UPDATED SERVICE CONNECTIONS |

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/16/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

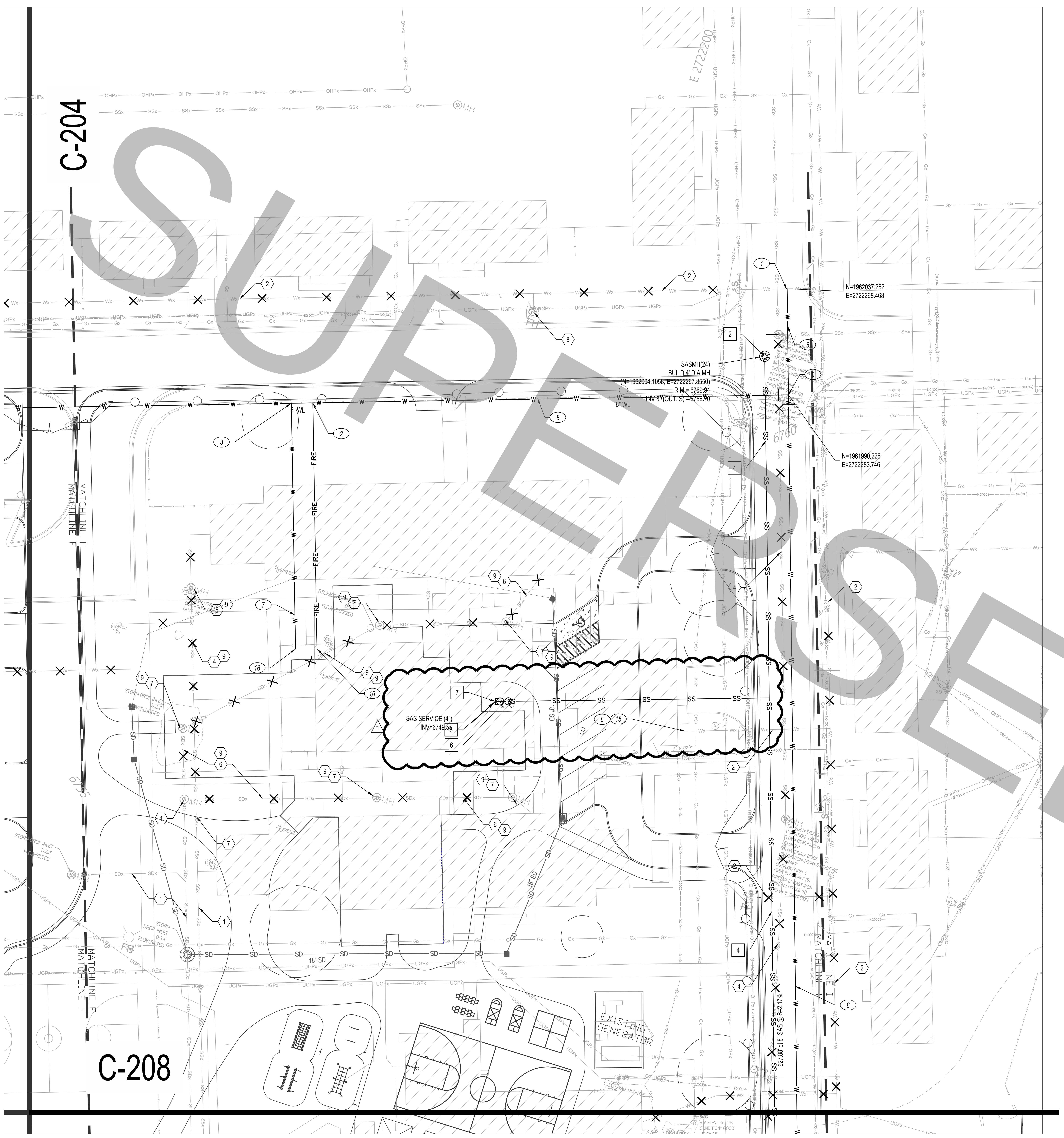
UTILITY PLAN

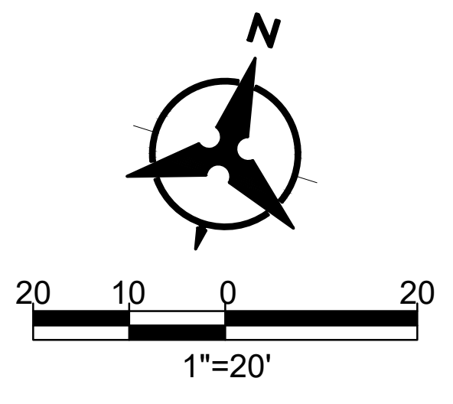
C205

8/7/2020

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





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6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
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15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL 6" FIRE PROTECTION LINE AND 4" SERVICE WATERLINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.

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## UTILITY LEGEND

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35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

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|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 and #SITE-2 |

| | |
|---|---|
| ISSUE: | |
| DATE: | 6/11/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

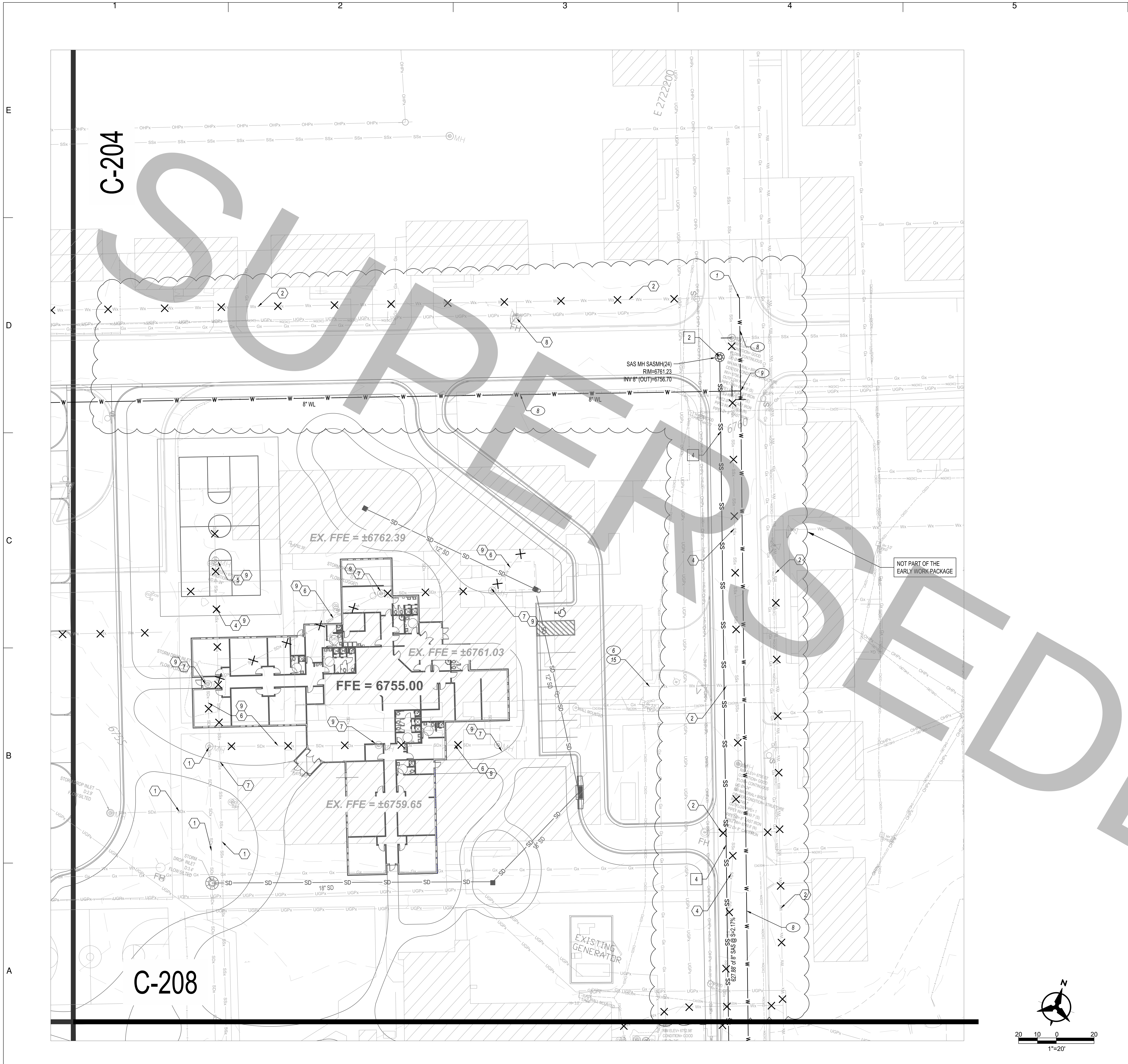
SHEET TITLE

UTILITY PLAN

C205

8/7/2020

School Information



## WATERLINE KEYNOTES

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3. INSTALL 1- 8"x8"x6" MJ, DI, TEE. INSTALL MJ GATE VALVES; 1- 8" GV ON THE MAIN AND 1 - 6" GV ON THE 6" BRANCH.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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One Park Square
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Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

Dzilth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

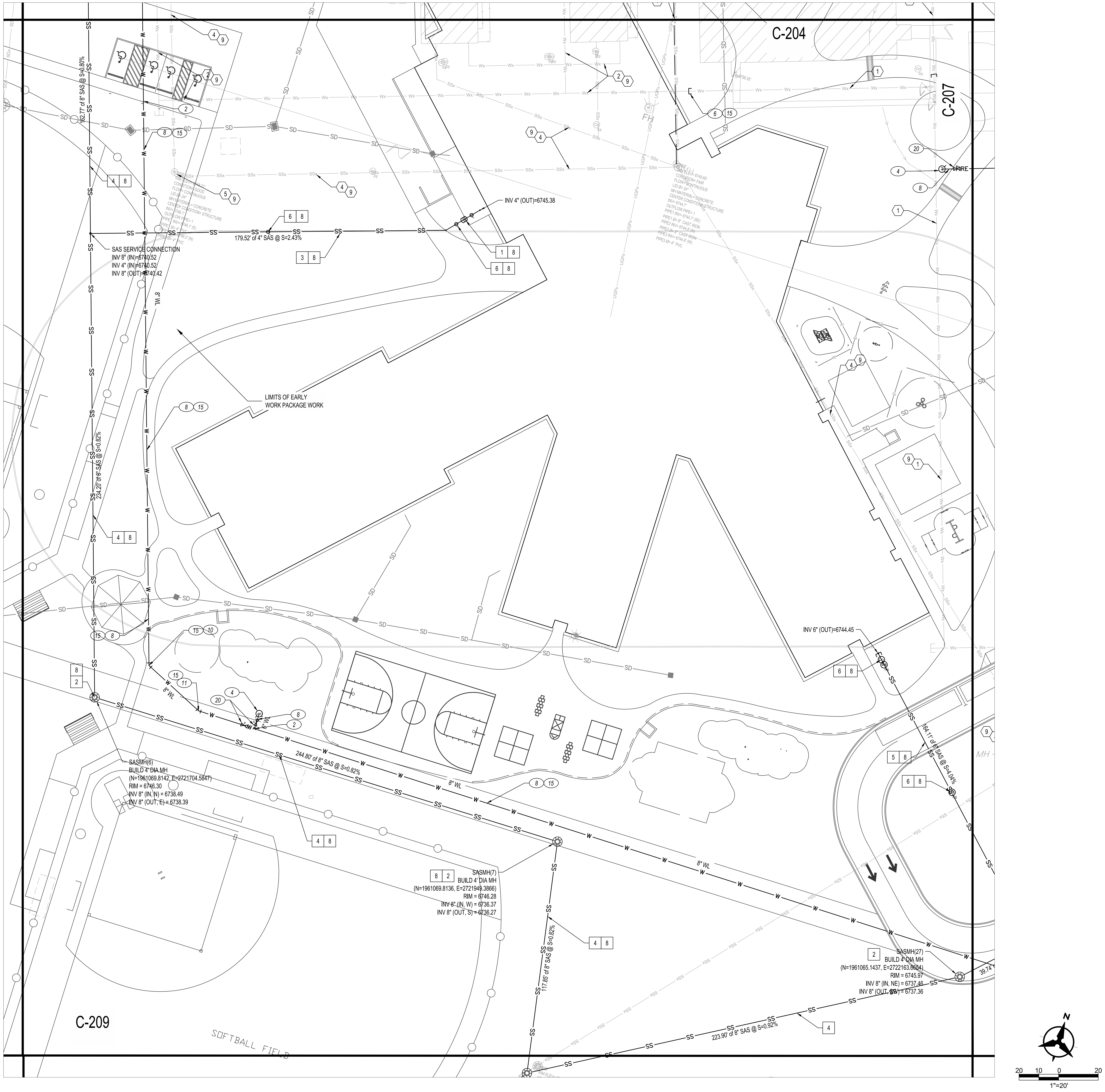
| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 6/11/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

UTILITY PLAN

C205



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| W ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| W ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

Bohannan Huston
www.bhinc.com 800.877.5332

fbt | architects
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CONSULTANT

**Architecture**
**FBT Architects**
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7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

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**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

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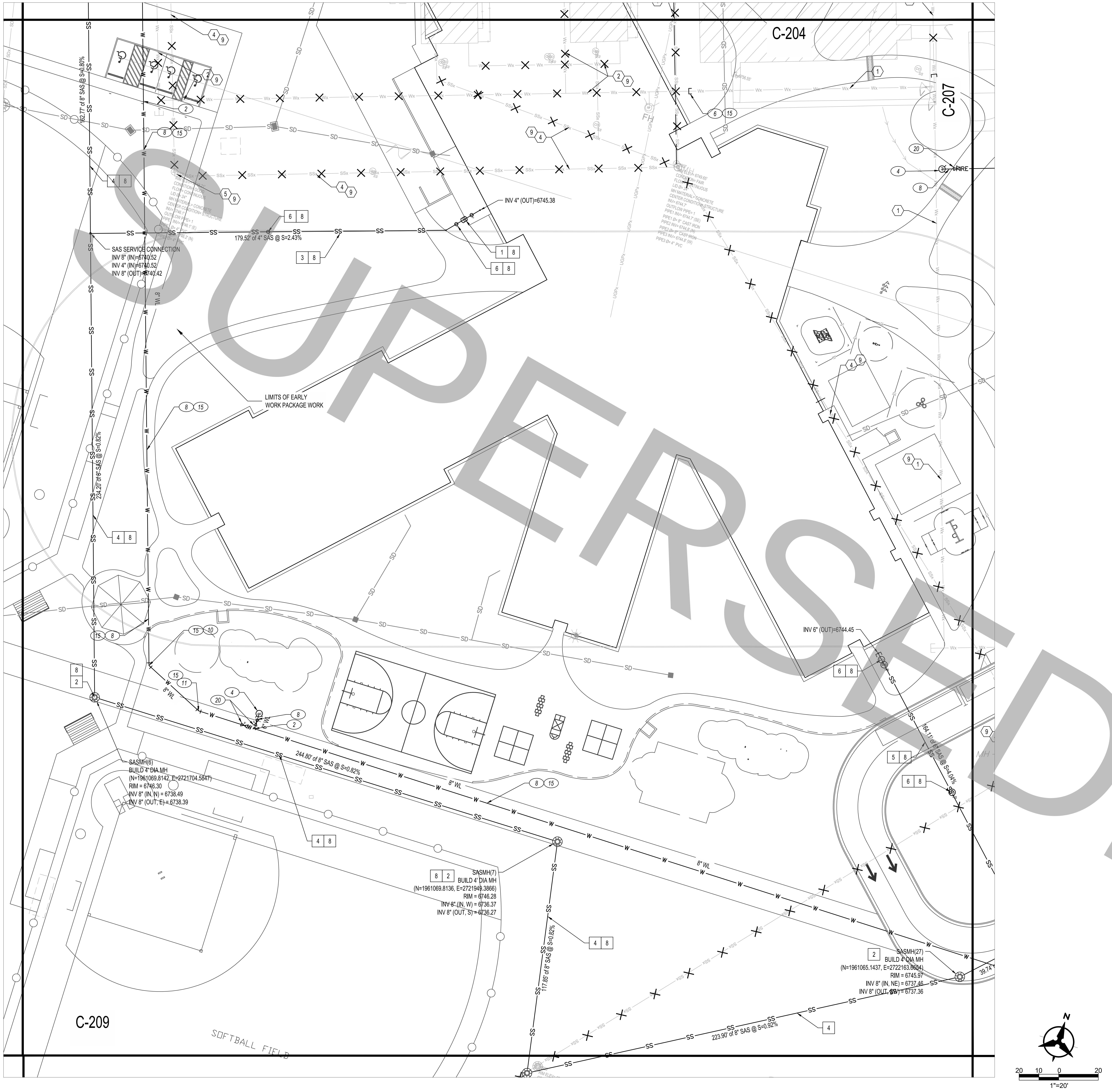
C206

School Information



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| ⬡ W | PROPOSED WATER METER |
| ⋈ W | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
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**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

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**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

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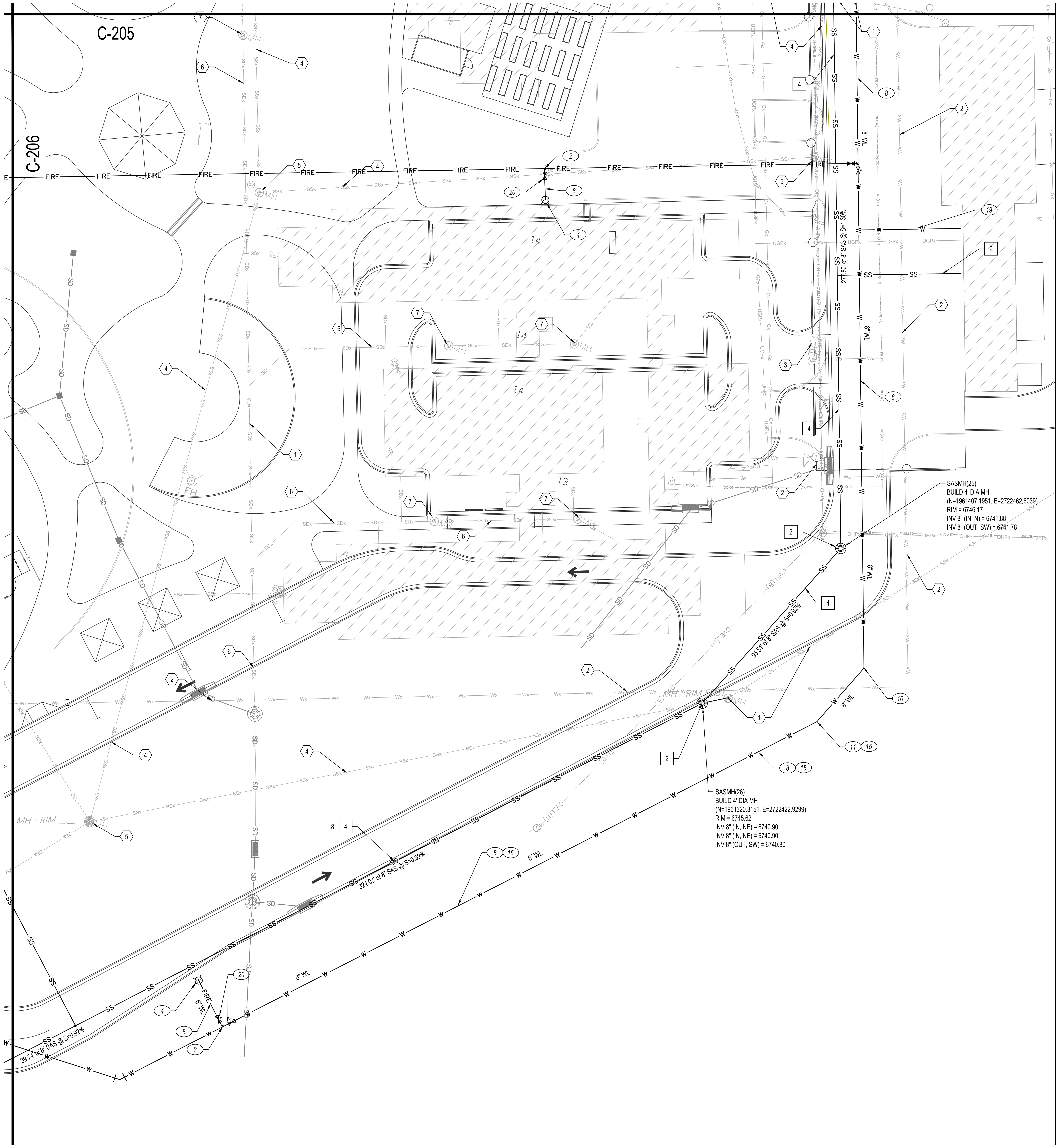
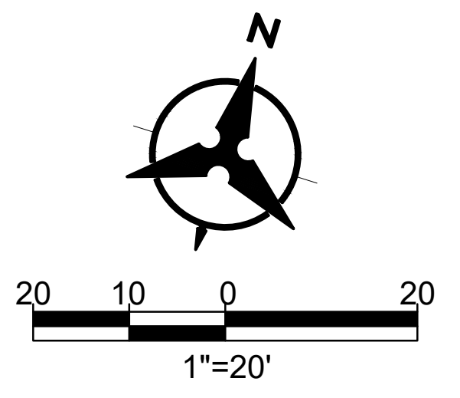
C206


C-205
C-206
FIRE
W
SS
8" WL
SASMH(25)
BUILD 4' DIA MH
(N=1961407.1951, E=2722462.6039)
RIM = 6746.17
INV 8" (IN, N) = 6741.88
INV 8" (OUT, SW) = 6741.78
SASMH(26)
BUILD 4' DIA MH
(N=1961320.3151, E=2722422.9299)
RIM = 6745.62
INV 8" (IN, NE) = 6740.90
INV 8" (IN, NE) = 6740.90
INV 8" (OUT, SW) = 6740.80
277.80' of 8" SAS @ S=1.30%
95.51' of 8" SAS @ S=0.92%
324.03' of 8" SAS @ S=0.92%
39.74' of 8" SAS @ S=0.92%
MH - RIM
14
13



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
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14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
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9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
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## UTILITY LEGEND

| | |
|---|---|
| —— – – —— | PROPOSED PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊛ | PROPOSED SANITARY SEWER MANHOLE |
| ◎ | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| ⊗ | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| ⊚ | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ⊙ | REMOTE FIRE DEPARTMENT CONNECTION |
| ⊖ | GREASE INTERCEPTOR |
| —×—×—× | UTILITY LINE DEMOLITION |

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NOT FOR CONSTRUCTION

Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE: 8/27/2020
PROJECT NO: 20210041
CAD DWG FILE:
DRAWN BY: JTN
CHECKED BY: OB

SHEET TITLE

UTILITY PLAN

C207

School Information

08/27/2020
Wed, 23-Sep-2020 - 10:29:am, Plotted by: OBROWN
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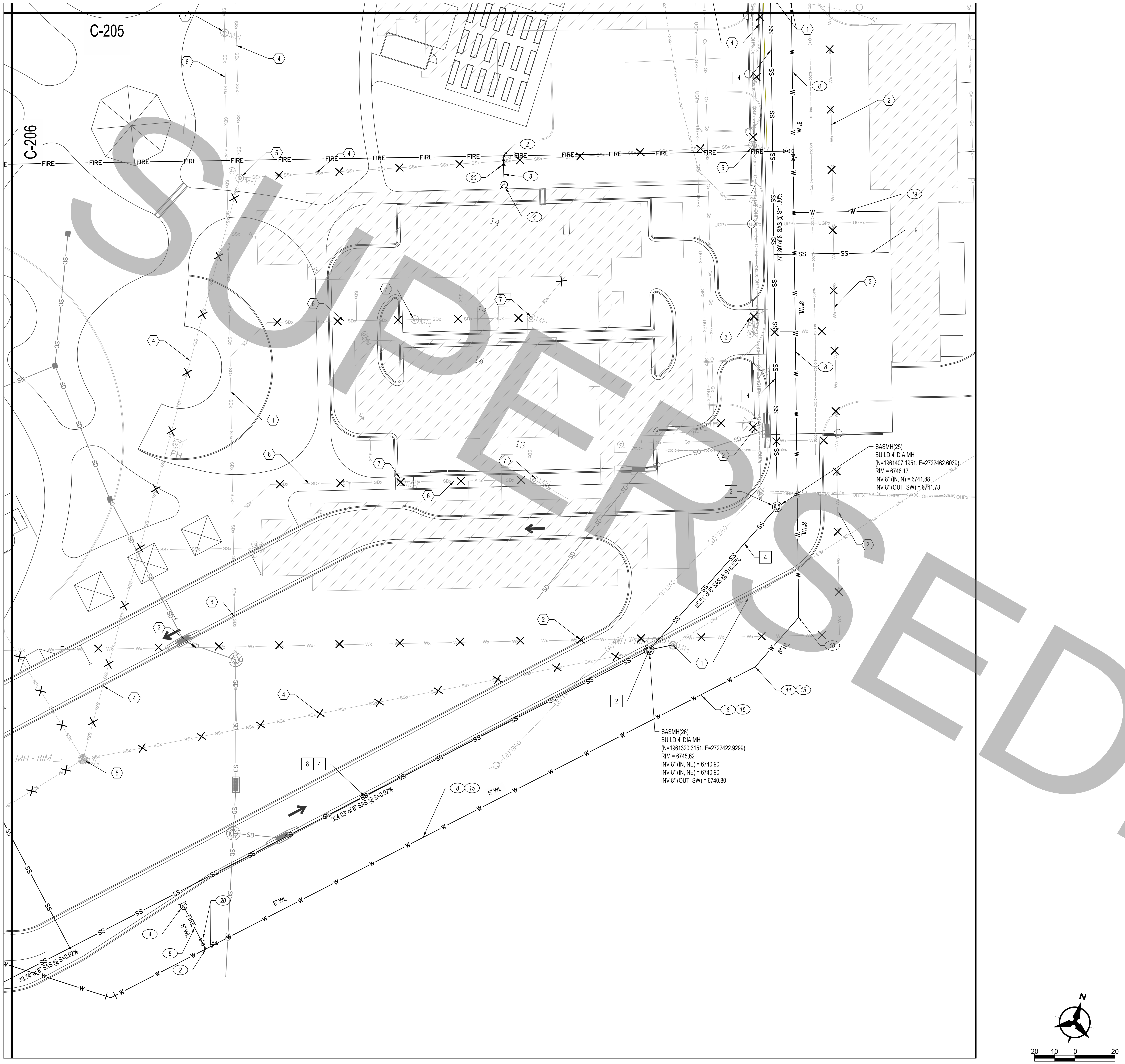
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL


C-205
C-206
277.80' of 8" SAS @ S=1.30%
95.51' of 8" SAS @ S=0.92%
324.03' of 8" SAS @ S=0.92%
39.74' of 8" SAS @ S=0.92%
8" WL
FIRE
SS
W
MH - RIM
FH
N
20 10 0 20
1"=20'

SASMH(25)
BUILD 4' DIA MH
(N=1961407.1951, E=2722462.6039)
RIM = 6746.17
INV 8" (IN, N) = 6741.88
INV 8" (OUT, SW) = 6741.78

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INV 8" (IN, NE) = 6740.90
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## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| W ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| W ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan Huston**
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fbt | architects
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CONSULTANT

**Architecture**
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7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

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**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/27/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

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C207

School Information

08/27/2020

Tue, 15-Sep-2020 - 11:52:am, Plotted by: OBROWN
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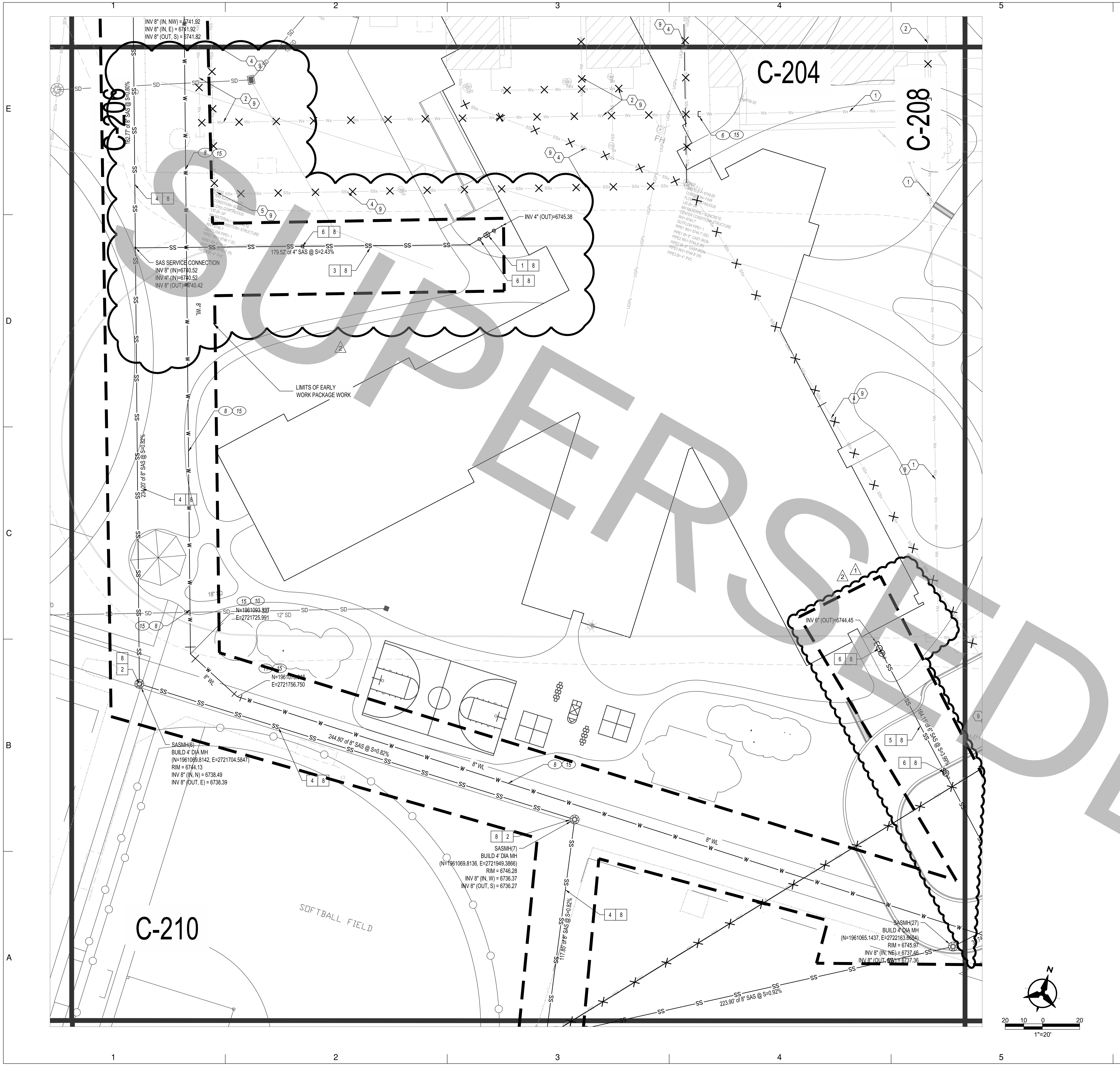
1
2
3
4
5
6
E
D
C
B
A
C-204
C-206
C-208
C-210
INV 8" (IN, NW) = 6741.92
INV 8" (IN, E) = 6741.92
INV 8" (OUT, S) = 6741.82
162.77' of 8" SAS @ S=0.80%
SAS SERVICE CONNECTION
INV 8" (IN)=6740.52
INV 4" (IN)=6740.52
INV 8" (OUT)=6740.42
179.52' of 4" SAS @ S=2.43%
INV 4" (OUT)=6745.38
8" WL
LIMITS OF EARLY WORK PACKAGE WORK
233.20' of 8" SAS @ S=0.82%
18" SD
12" SD
N=1961093.337
E=2721725.991
N=1961078.016
E=2721756.750
SASMH(6)
BUILD 4' DIA MH
(N=1961069.8142, E=2721704.5847)
RIM = 6744.13
INV 8" (IN, N) = 6738.49
INV 8" (OUT, E) = 6738.39
244.80' of 8" SAS @ S=0.82%
SASMH(7)
BUILD 4' DIA MH
(N=1961069.8136, E=2721949.3866)
RIM = 6746.28
INV 8" (IN, W) = 6736.37
INV 8" (OUT, S) = 6736.27
117.85' of 8" SAS @ S=0.82%
SOFTBALL FIELD
INV 6" (OUT)=6744.45
154.11' of 6" SAS @ S=3.99%
SASMH(27)
BUILD 4' DIA MH
(N=1961065.1437, E=2722163.6654)
RIM = 6745.97
INV 8" (IN, NE) = 6737.46
INV 8" (OUT, SW) = 6737.36
223.90' of 8" SAS @ S=0.92%
SS
W
SD
N
20 10 0 20
1"=20'

## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL SERVICE WATERLINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL FIRE LINE REDUCED PRESSURE BACKFLOW DEVICE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⧓ | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

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fbt | architects
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NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 AND #SITE-2 |
| 2 | 8/14/2020 | RFI #SITE-1 AND #SITE-2 |

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/16/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

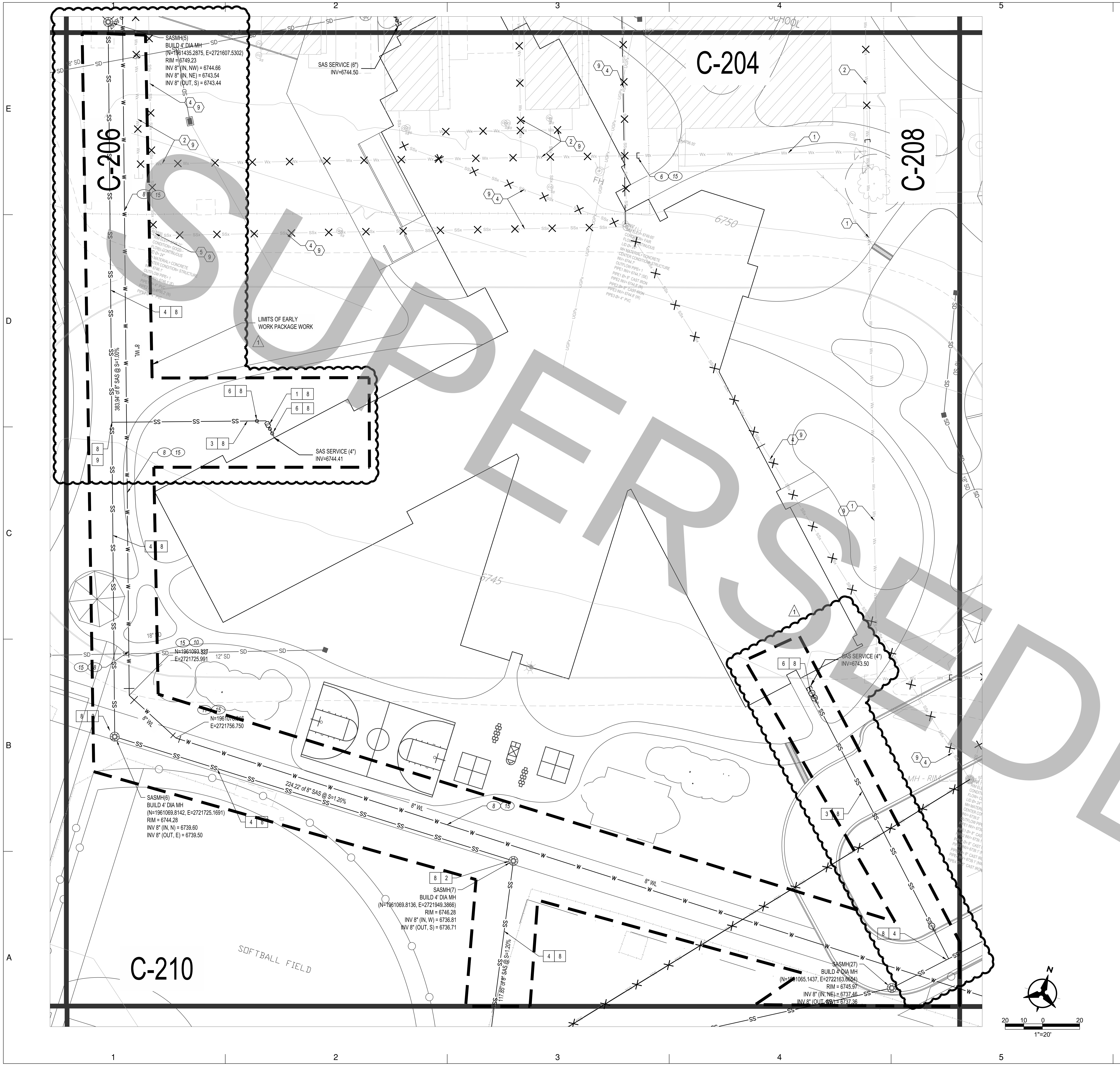
SHEET TITLE

UTILITY PLAN

C207

School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL


C-204
C-206
C-208
C-210
SASMH(5)
BUILD 4' DIA MH
(N=1961435.2875, E=2721607.5302)
RIM = 6749.23
INV 8" (IN, NW) = 6744.66
INV 8" (IN, NE) = 6743.54
INV 8" (OUT, S) = 6743.44
SAS SERVICE (6")
INV=6744.50
LIMITS OF EARLY WORK PACKAGE WORK
383.94' of 8" SAS @ S=1.00%
8" WL
SAS SERVICE (4")
INV=6744.41
N=1961093.837
E=2721725.991
N=1961076.016
E=2721756.750
224.22' of 8" SAS @ S=1.20%
SASMH(6)
BUILD 4' DIA MH
(N=1961069.8142, E=2721725.1691)
RIM = 6744.28
INV 8" (IN, N) = 6739.60
INV 8" (OUT, E) = 6739.50
SASMH(7)
BUILD 4' DIA MH
(N=1961069.8136, E=2721949.3866)
RIM = 6746.28
INV 8" (IN, W) = 6736.81
INV 8" (OUT, S) = 6736.71
117.85' of 8" SAS @ S=1.20%
SOFTBALL FIELD
SAS SERVICE (4")
INV=6743.50
SASMH(27)
BUILD 4' DIA MH
(N=1961065.1437, E=2722163.6654)
RIM = 6745.97
INV 8" (IN, NE) = 6737.46
INV 8" (OUT, SW) = 6737.36
6750
6745
N
20 10 0 20
1"=20'
1 2 3 4 5 6
A B C D E

## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL 6" FIRE PROTECTION LINE AND 4" SERVICE WATERLINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ⊗ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

Bohannan ▲ Huston
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fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
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CONSULTANT

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**Civil**
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7500 Jefferson Street NE
Albuquerque, NM, 87109
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NOT FOR CONSTRUCTION

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**Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8/7/2020 | RFI #SITE-1 AND #SITE-2 |

| | |
|---|---|
| ISSUE: | |
| DATE: | 8/7/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

SHEET TITLE

UTILITY PLAN

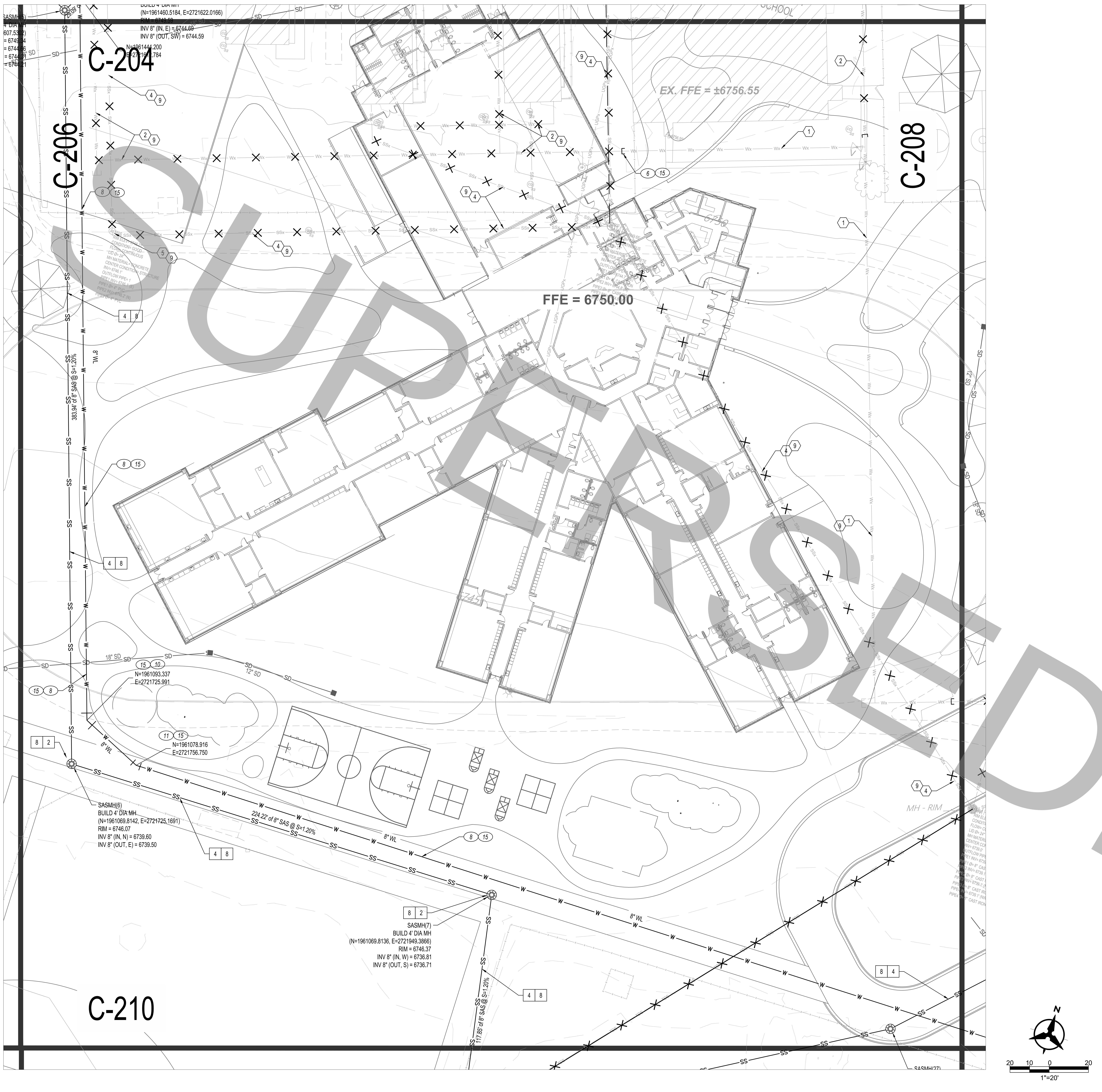
C207

School Information

8/7/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

6/16/2020



## WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x3" MJ,DI, TEE, 1 - 3" GATE VALVE.
3. INSTALL 1- 8"x8"x6" MJ, DI, TEE. INSTALL MJ GATE VALVES; 1- 8" GV ON THE MAIN AND 1 - 6" GV ON THE 6" BRANCH.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.

## SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
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## DEMOLITION KEYED NOTES

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2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ⊛ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⧓ | PROPOSED PIV |
| ♉ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

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Dzilth-Na-O-Dith-Hle Community School
"FOR EACH CHILD SUCCESS"

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
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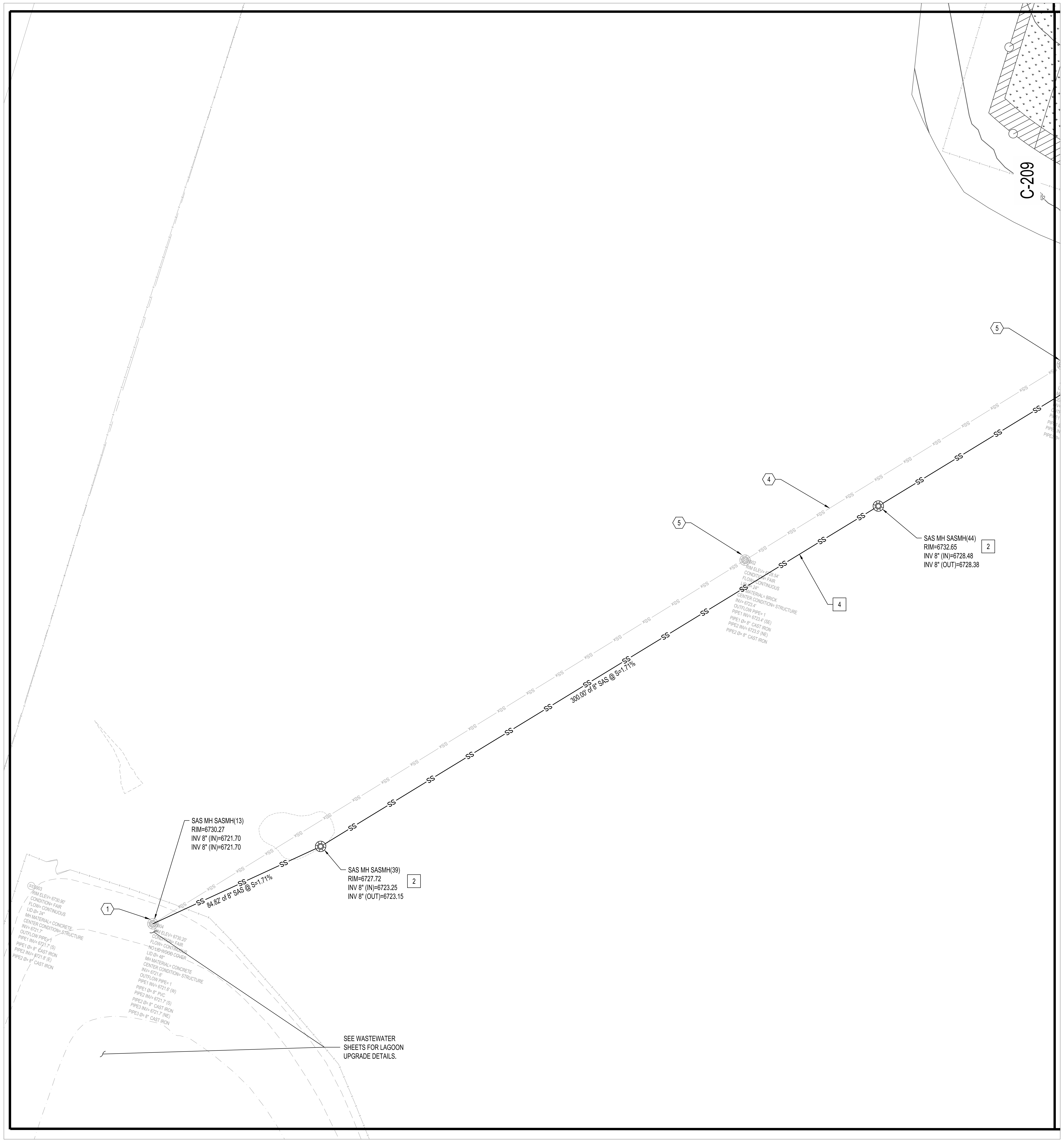
| ISSUE: | |
| DATE: | 6/16/2020 |
| PROJECT NO: | 20210041 |
| CAD DWG FILE: | |
| DRAWN BY: | JTN |
| CHECKED BY: | OB |

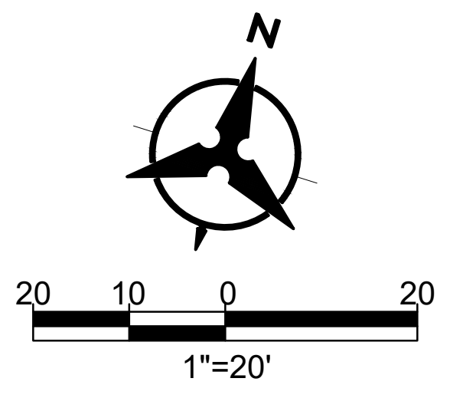
SHEET TITLE

UTILITY PLAN

C207

School Information





## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPOSED BOUNDARY |
| —SS— | PROPOSED SANITARY SEWER LINE |
| ⊛ | PROPOSED SANITARY SEWER MANHOLE |
| ◎ | PROPOSED CLEANOUT |
| —W— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE— | PROPOSED FIRE WATER LINE |
| ⊙ | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| ⊕ | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ⚲ | REMOTE FIRE DEPARTMENT CONNECTION |
| ⊖ | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

Bohannan ▲ Huston
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
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CONSULTANT

**Architecture**
**FBT Architects**
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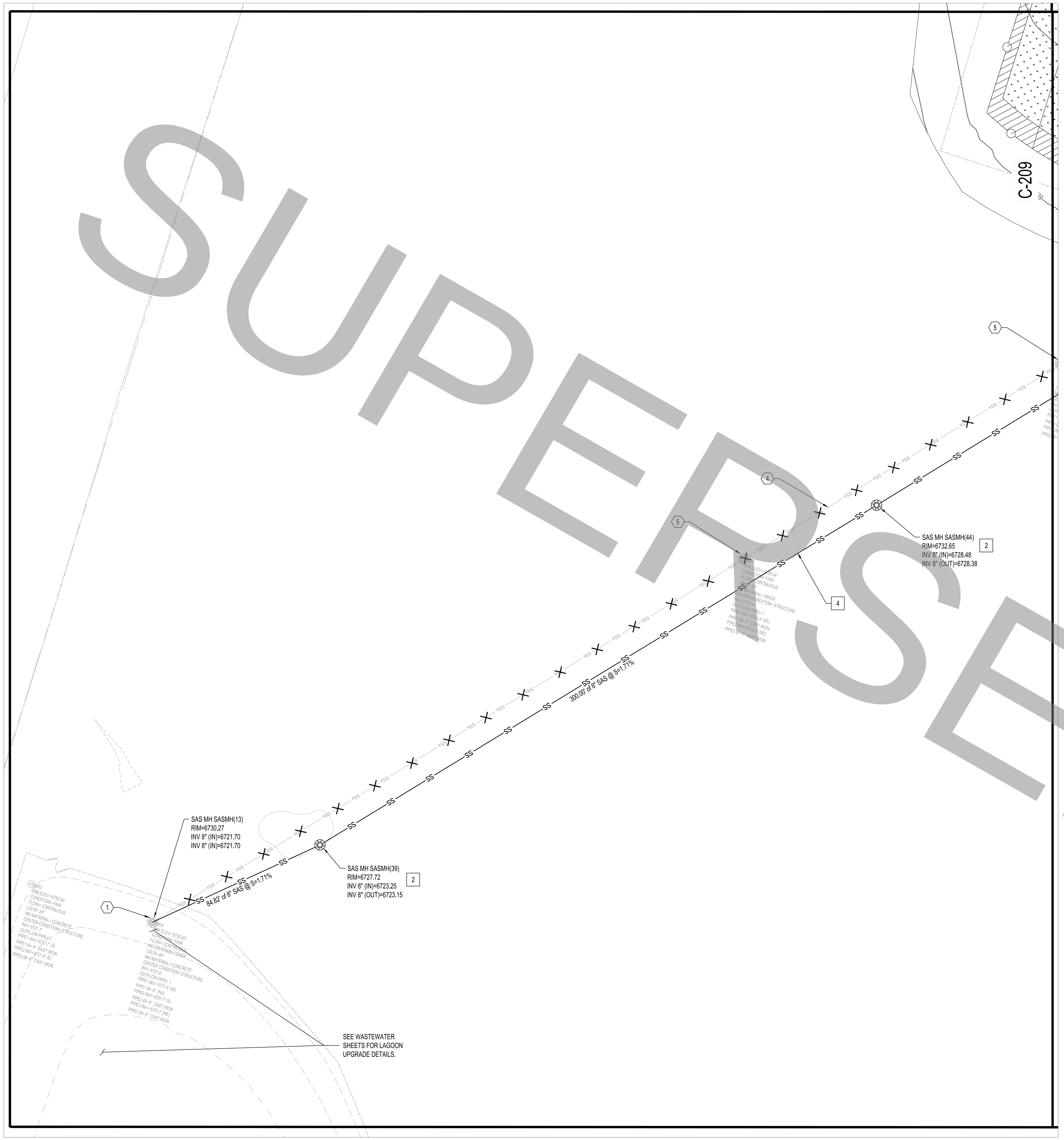

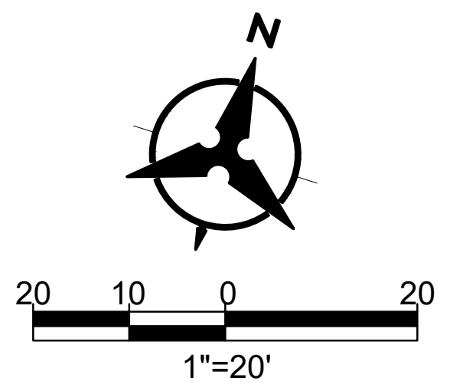

## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan Huston**
www.bhinc.com 800.877.5332

fbt | architects
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Albuquerque, NM 87110
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CONSULTANT

**Architecture**
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Albuquerque, NM 87110
p_ 505.212.9126

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**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
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DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

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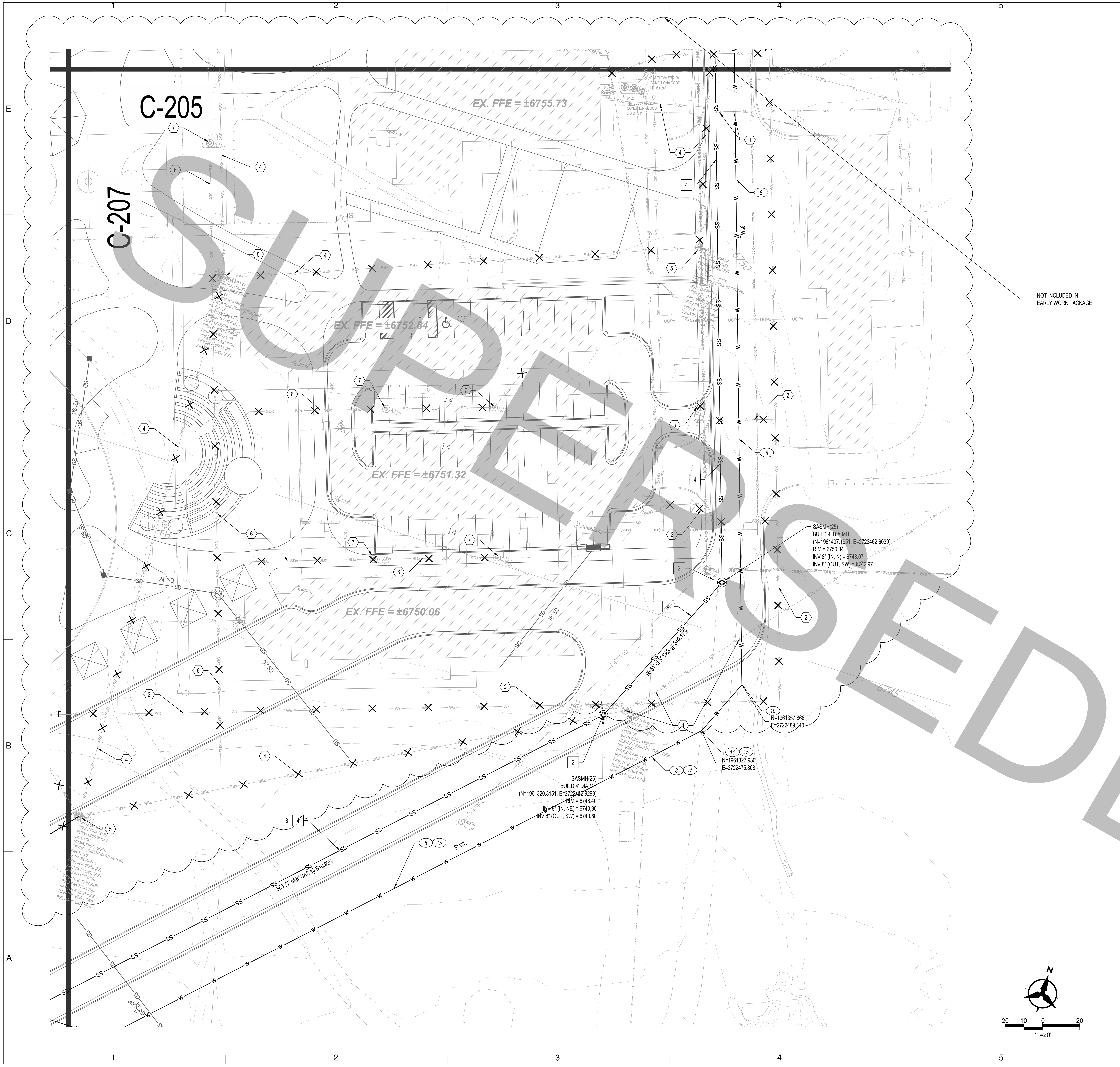

## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x3" MJ,DI, TEE, 1 - 3" GATE VALVE.
3. INSTALL 1- 8"x8"x6" MJ, DI, TEE. INSTALL MJ GATE VALVES; 1- 8" GV ON THE MAIN AND 1 - 6" GV ON THE 6" BRANCH.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
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6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
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8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
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| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
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| W ⋈ | PROPOSED VALVE |
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| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
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| ⧓ | PROPOSED PIV |
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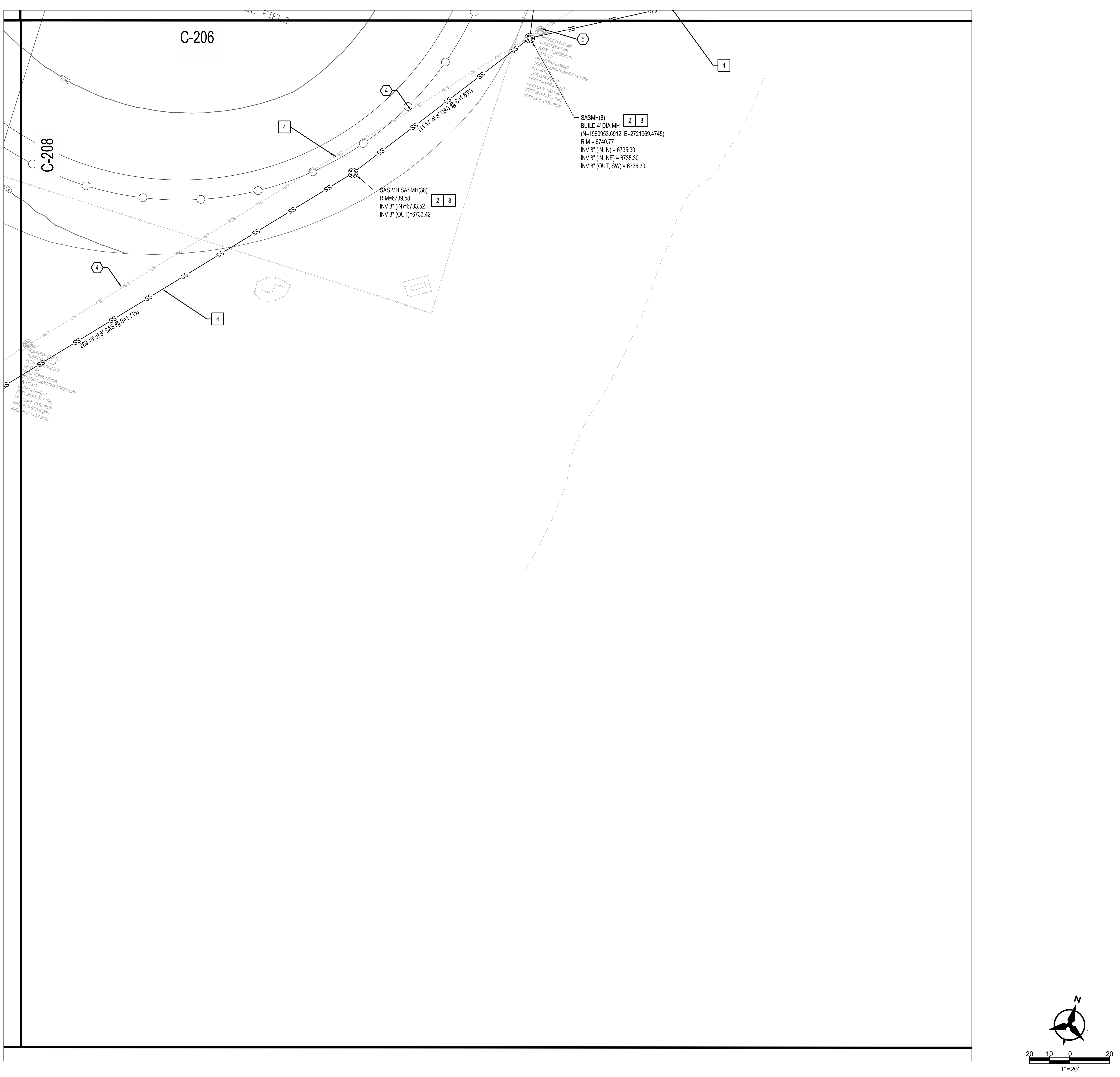

## ○ WATERLINE KEYNOTES

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## ⬡ DEMOLITION KEYED NOTES

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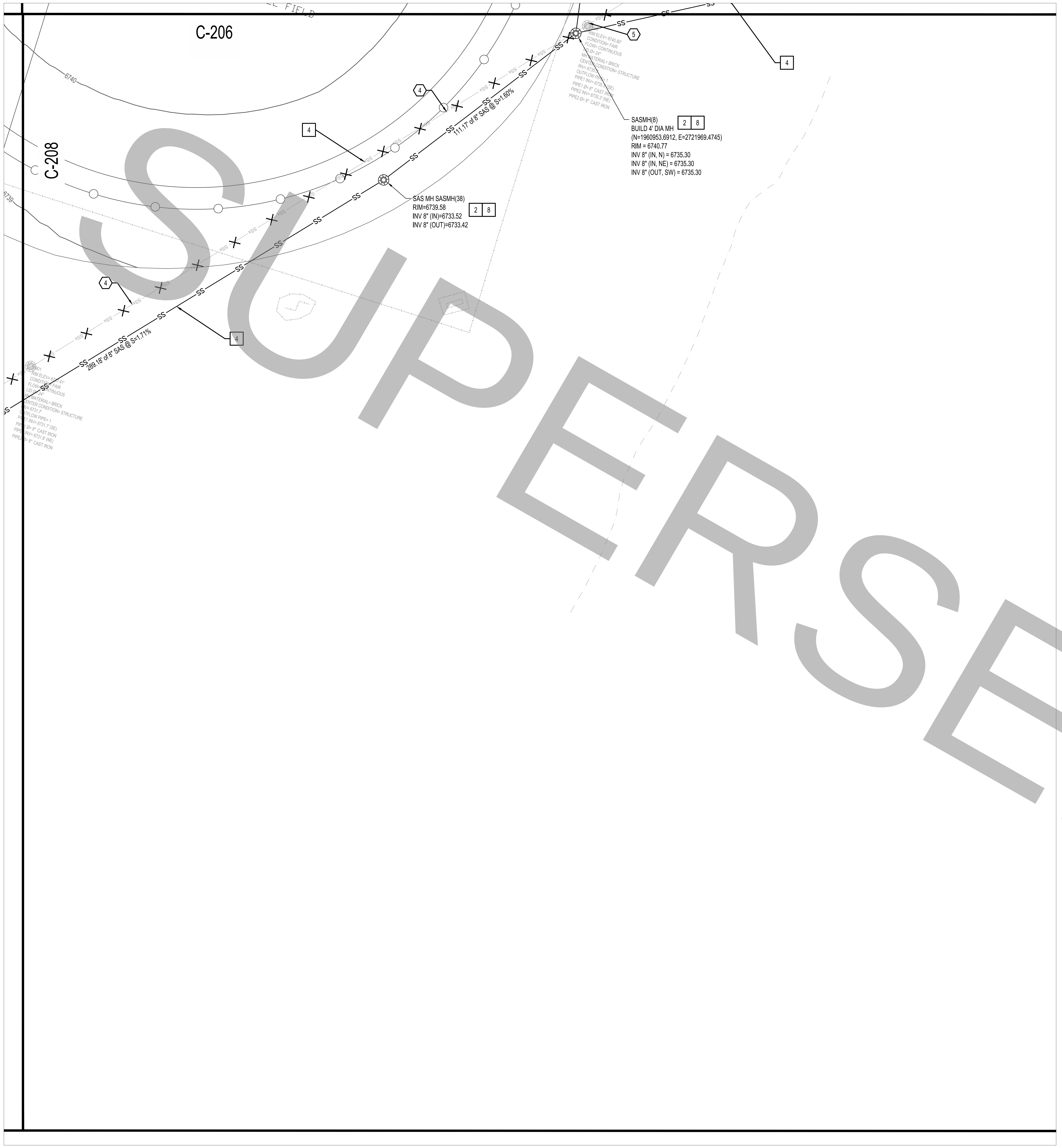

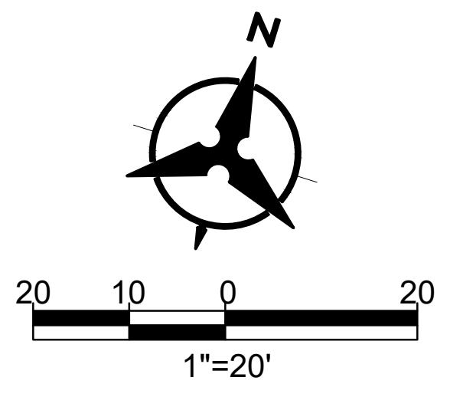

## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE AT EXISTING GATE VALVE.
2. INSTALL 1 - 8"x8"x6" TEE.
3. INSTALL 1- 8"x8"x4" TEE.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL FIRE PROTECTION LINE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE. 1- 6" MJ GATE VALVE ON THE MAIN AND 1 - 6" MJ GATE VALVE ON THE BRANCH.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.
16. INSTALL WATER SERVICE (SIZE PER PLANS) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
17. INSTALL REDUCED PRESSURE BACKFLOW DEVICE WITH HEATED ENCLOSURE.
18. INSTALL FIRE PROTECTION POST INDICATOR VALVE (SIZE PER PLANS).
19. CONTRACTOR TO FIELD VERIFY EXISTING WATER SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW WATERLINE.
20. INSTALL WATER LINE VALVE, SIZE PER PLAN.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.
9. CONTRACTOR TO FIELD VERIFY EXISTING SAS SERVICE CONNECTIONS AND REPLACE IN KIND, CONNECTING TO NEW SAS LINE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON OR REMOVE EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON OR REMOVE EXISTING SANITARY SEWER LINE.
5. ABANDON OR REMOVE EXISTING SANITARY SEWER MANHOLE.
6. ABANDON OR REMOVE EXISTING STORM DRAIN LINE.
7. ABANDON OR REMOVE EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.
10. DEMOLITION LIMITS. REMOVE AND REPLACE PAVING, CONCRETE, WALLS, ETC. IN KIND.

## UTILITY LEGEND

| | |
|---|---|
| —— — — —— | PROPERTY BOUNDARY |
| —SS—— | PROPOSED SANITARY SEWER LINE |
| ◎ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| —W—— | PROPOSED WATER LINE |
| W ⋈ | PROPOSED VALVE |
| —FIRE—— | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| W ⋈ | PROPOSED PIV |
| ✕ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —✕—✕—✕— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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Dziłth-Na-O-Dith-Hle Community Grant School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

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ISSUE:
DATE: 8/27/2020
PROJECT NO: 20210041
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CHECKED BY: OB

SHEET TITLE

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C209

School Information

Tue, 15-Sep-2020 - 11:56:am, Plotted by: OBROWN
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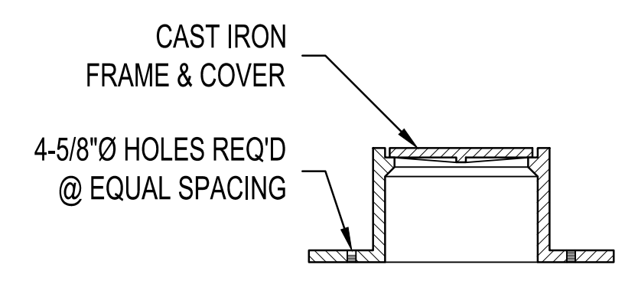
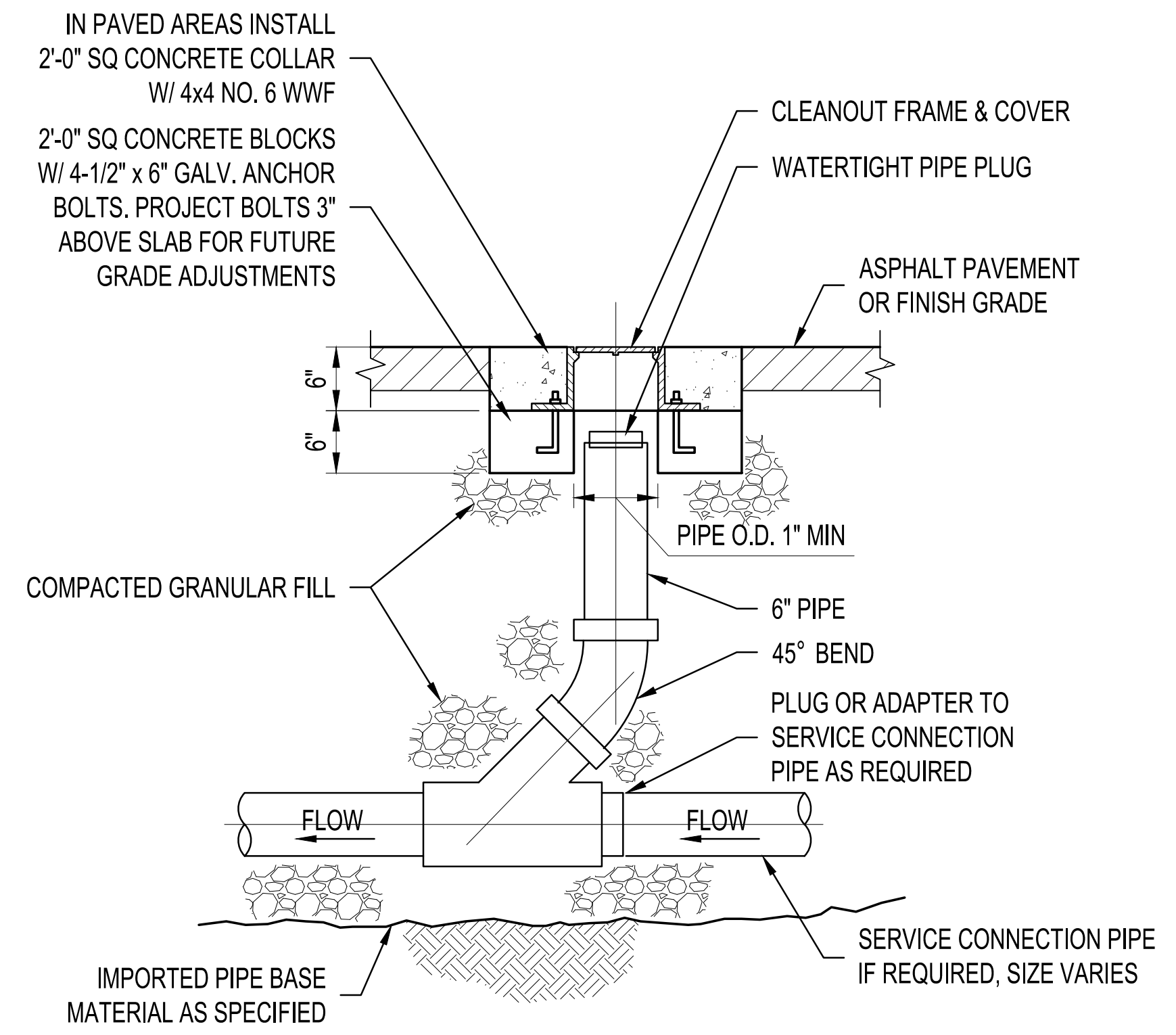
08/27/2020

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

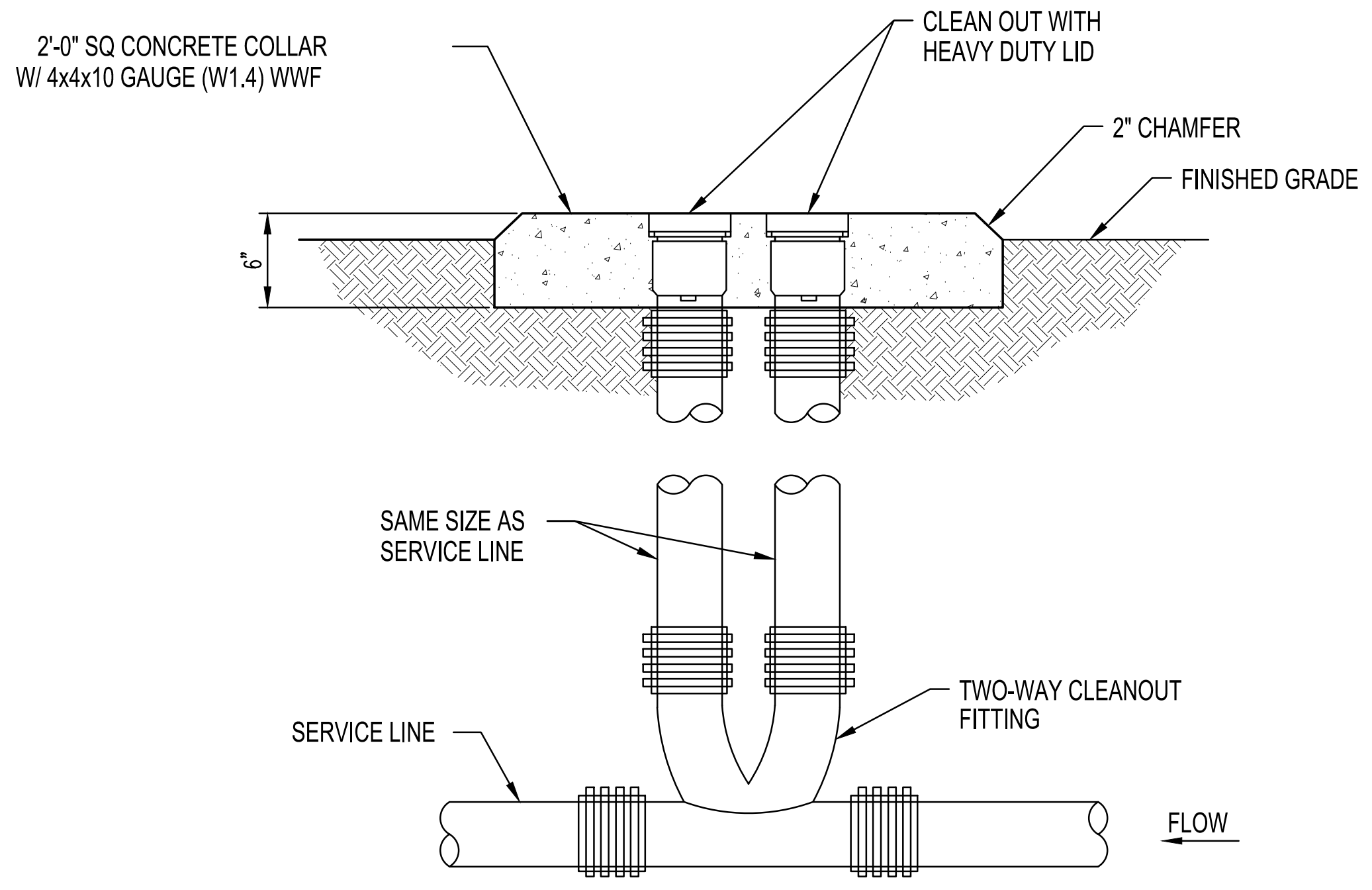


**CLEANOUT FRAME & COVER**


IN PAVED AREAS INSTALL 2'-0" SQ CONCRETE COLLAR W/ 4x4 NO. 6 WWF
2'-0" SQ CONCRETE BLOCKS W/ 4-1/2" x 6" GALV. ANCHOR BOLTS. PROJECT BOLTS 3" ABOVE SLAB FOR FUTURE GRADE ADJUSTMENTS
CLEANOUT FRAME & COVER
WATERTIGHT PIPE PLUG
ASPHALT PAVEMENT OR FINISH GRADE
6"
6"
PIPE O.D. 1" MIN
COMPACTED GRANULAR FILL
6" PIPE
45° BEND
PLUG OR ADAPTER TO SERVICE CONNECTION PIPE AS REQUIRED
FLOW
FLOW
IMPORTED PIPE BASE MATERIAL AS SPECIFIED
SERVICE CONNECTION PIPE IF REQUIRED, SIZE VARIES

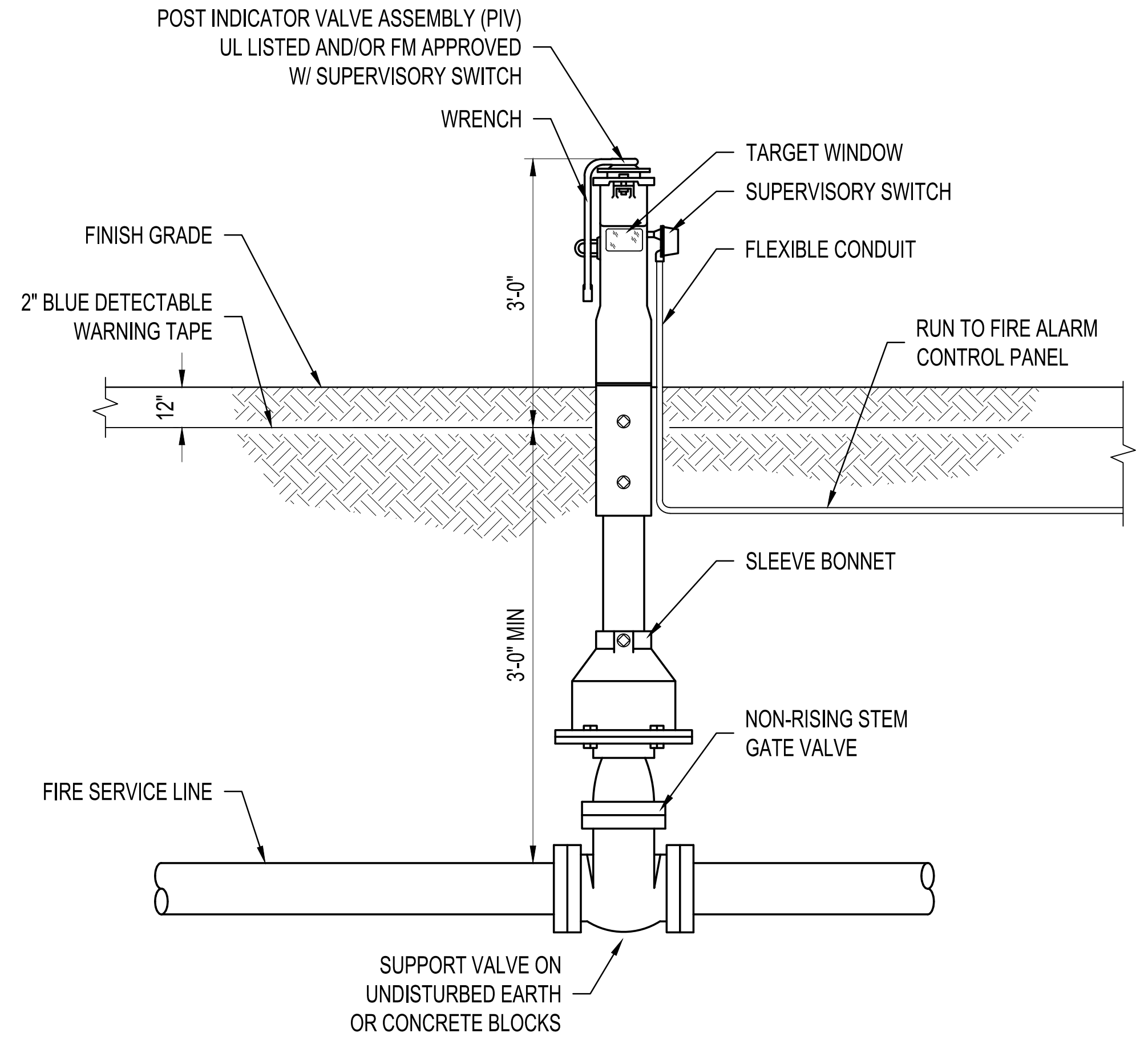
## 1 CLEANOUT DETAIL

NTS


2'-0" SQ CONCRETE COLLAR W/ 4x4x10 GAUGE (W1.4) WWF
CLEAN OUT WITH HEAVY DUTY LID
2" CHAMFER
FINISHED GRADE
6"
SAME SIZE AS SERVICE LINE
TWO-WAY CLEANOUT FITTING
SERVICE LINE
FLOW

## 2 DOUBLE CLEANOUT DETAIL

NTS


POST INDICATOR VALVE ASSEMBLY (PIV) UL LISTED AND/OR FM APPROVED W/ SUPERVISORY SWITCH
WRENCH
TARGET WINDOW
SUPERVISORY SWITCH
FLEXIBLE CONDUIT
FINISH GRADE
2" BLUE DETECTABLE WARNING TAPE
3'-0"
12"
RUN TO FIRE ALARM CONTROL PANEL
SLEEVE BONNET
3'-0" MIN
NON-RISING STEM GATE VALVE
FIRE SERVICE LINE
SUPPORT VALVE ON UNDISTURBED EARTH OR CONCRETE BLOCKS

## 3 POST INDICATOR VALVE

NTS

Wed, 23-Sep-2020 - 10:33:am, Plotted by: OBROWN
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MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

NOT FOR CONSTRUCTION

**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
35 Road 7585
Bloomfield, NM 87413

AUGUST 2020

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Bohannan Huston
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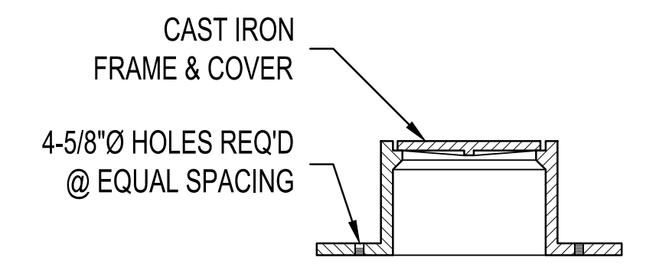
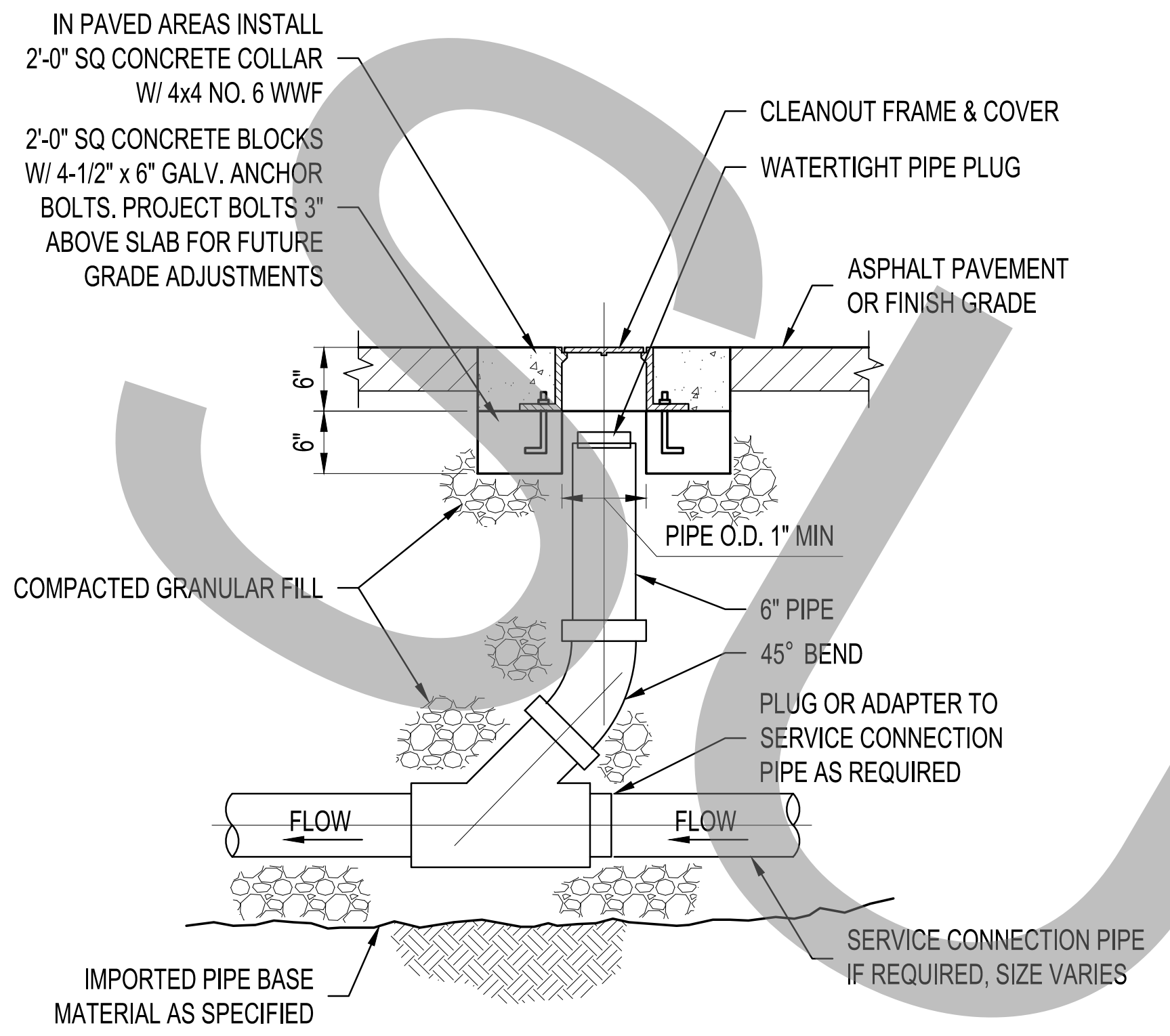
School Information

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL

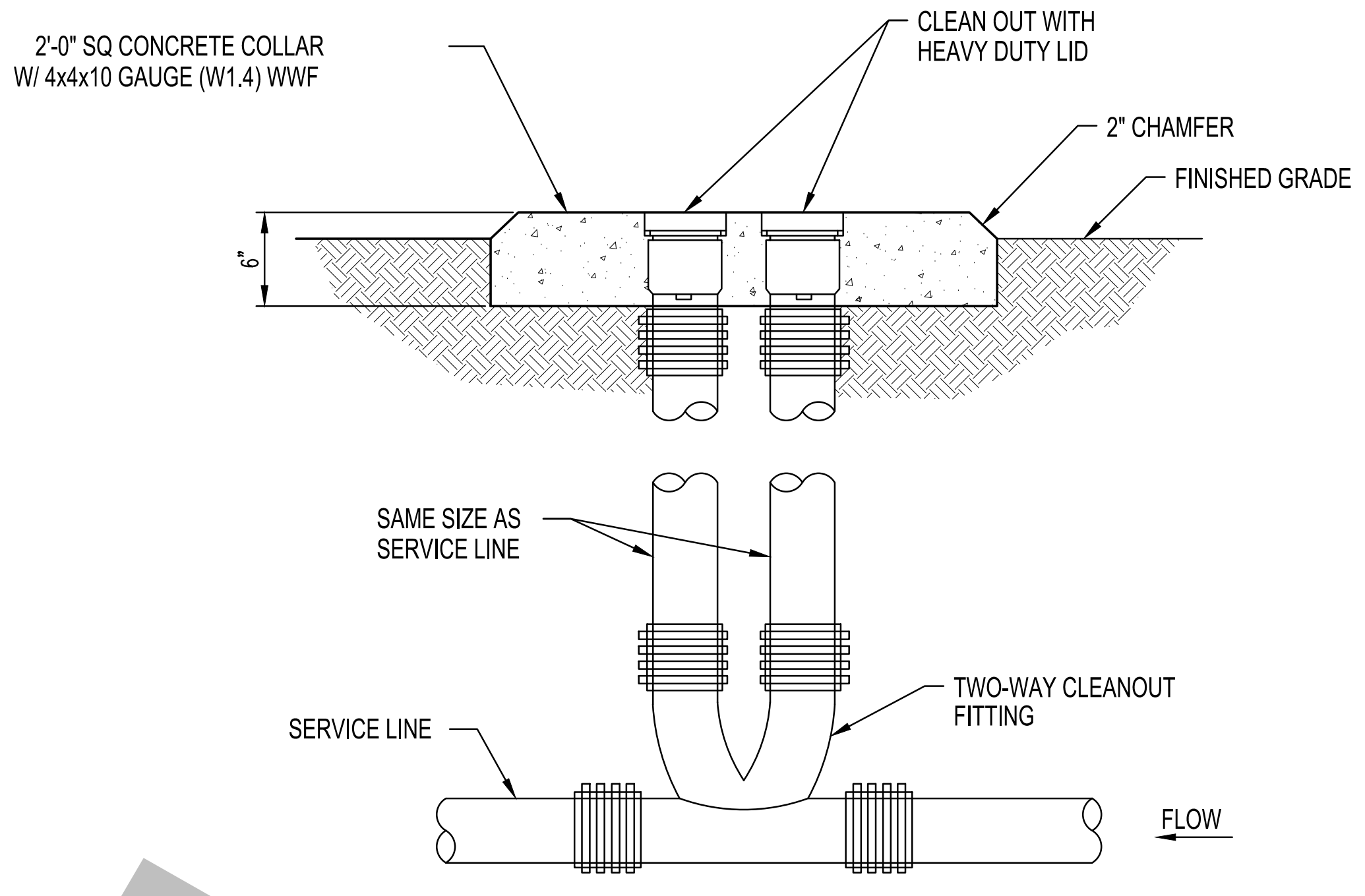


CLEANOUT FRAME & COVER



## 1 CLEANOUT DETAIL

NTS



## 2 DOUBLE CLEANOUT DETAIL

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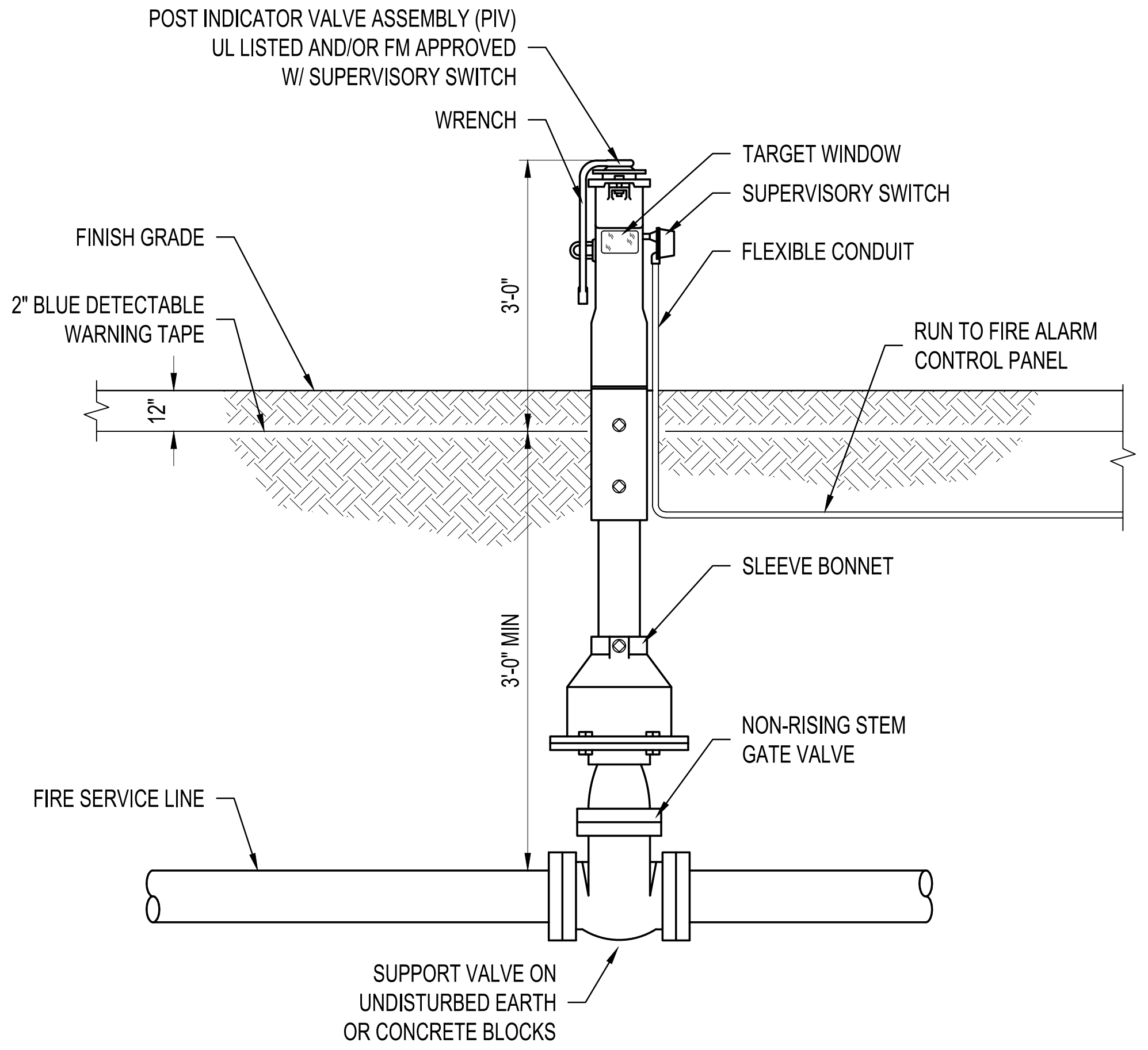

## 3 POST INDICATOR VALVE

NTS

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

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**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

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**Dziłth-Na-O-Dith-Hle Community School**

**DESIGN DEVELOPMENT**
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School Information

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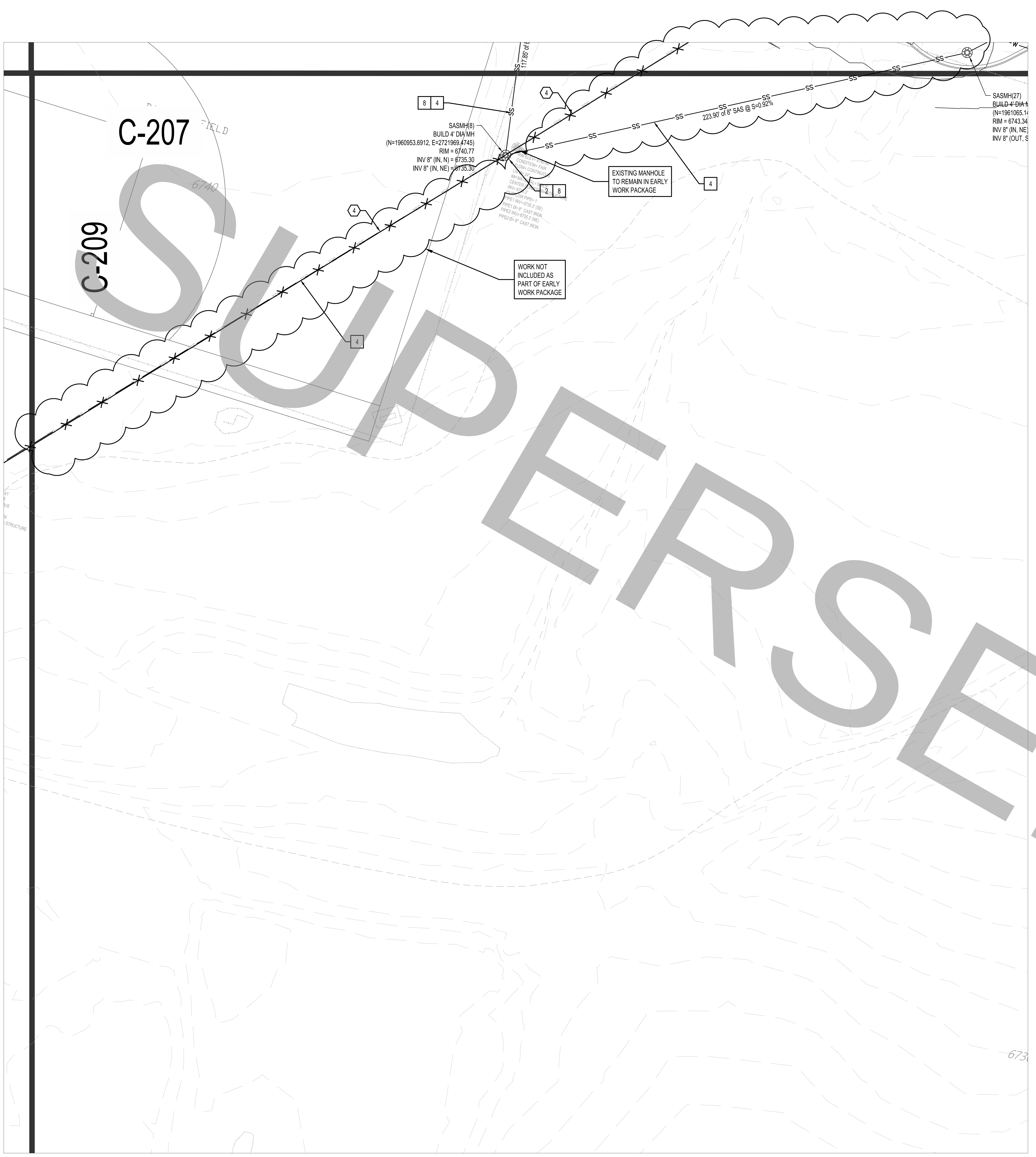
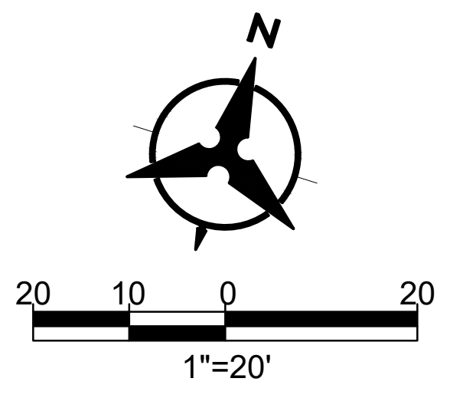
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL





## ○ WATERLINE KEYNOTES

1. CONNECT TO EXISTING 8" WATER LINE.
2. INSTALL 1 - 8"x8"x3" MJ,DI, TEE, 1 - 3" GATE VALVE.
3. INSTALL 1- 8"x8"x6" MJ, DI, TEE. INSTALL MJ GATE VALVES; 1- 8" GV ON THE MAIN AND 1 - 6" GV ON THE 6" BRANCH.
4. INSTALL FIRE HYDRANT, PER NMAPWA STD DWG 2340.
5. INSTALL 1- 8"X8"X8" MJ, DI, TEE. INSTALL 2 - MJ GATE VALVES; 1- 8" MJ GATE VALVE ON THE MAIN AND 1 - 8" MJ GATE VALVE ON THE BRANCH.
6. INSTALL WATERLINE CAP (MJ, DI), SIZE PER PLAN.
7. INSTALL 6" FIRE PROTECTION LINE AND 3" WATERLINE (SEE PLAN FOR TYPE) TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
8. INSTALL WATER LINE, SIZE PER PLAN.
9. INSTALL 90° MJ, DI. SIZE PER PLAN.
10. INSTALL 45° MJ, DI. SIZE PER PLAN.
11. INSTALL 22.5° MJ, DI. SIZE PER PLAN.
12. INSTALL 11.25° MJ, DI. SIZE PER PLAN.
13. INSTALL 6"x6"x6" MJ, DI, TEE.
14. INSTALL VERTICAL 45° BENDS WITH RESTRAINED JOINTS TO DIP WATER LINE / FIRE LINE UNDER STORM DRAIN TO MAINTAIN A 2' VERTICAL CLEARANCE BETWEEN WATER AND STORM.
15. WATER SYSTEM WORK TO BE COMPLETED AS PART OF THE EARLY WORK PACKAGE.

## ☐ SANITARY SEWER KEYNOTES

1. INSTALL GREASE INTERCEPTOR PER DETAIL C-XXX
2. INSTALL 4' SANITARY MANHOLE PER NMAPWA STD DWG 2101 OR 2102.
3. INSTALL 4" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
4. INSTALL 8" SAS LINE.
5. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
6. INSTALL 6" SANITARY DOUBLE CLEANOUT.
7. INSTALL TEMPORARY SANITARY SEWER PLUG, SIZE PER PLANS.
8. SANITARY SEWER WORK TO BE COMPLETED IN EARLY WORK PACKAGE.

## ⬡ DEMOLITION KEYED NOTES

1. EXISTING UTILITY TO REMAIN. PROTECT IN PLACE.
2. ABANDON EXISTING WATERLINE AND APPURTENANCES.
3. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT.
4. ABANDON EXISTING SANITARY SEWER LINE.
5. ABANDON EXISTING SANITARY SEWER MANHOLE.
6. ABANDON EXISTING STORM DRAIN LINE.
7. ABANDON EXISTING STORM DRAIN INLET/MANHOLE.
8. REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR FUTURE USE.
9. DEMOLITION WORK TO BE COMPLETED AS PART OF EARLY WORK PACKAGE.

* NOT ALL NOTES USED ON THIS SHEET

## UTILITY LEGEND

| | |
|---|---|
| — — — — | PROPERTY BOUNDARY |
| — SS — | PROPOSED SANITARY SEWER LINE |
| ⊚ | PROPOSED SANITARY SEWER MANHOLE |
| CO SS | PROPOSED CLEANOUT |
| — W — | PROPOSED WATER LINE |
| ⋈ W | PROPOSED VALVE |
| — FIRE — | PROPOSED FIRE WATER LINE |
| FP | PROPOSED HYDRANT |
| ⊓ | PROPOSED CAP |
| W | PROPOSED WATER METER |
| ⋈ | PROPOSED PIV |
| ○ | REMOTE FIRE DEPARTMENT CONNECTION |
| SS | GREASE INTERCEPTOR |
| —×—×—×— | UTILITY LINE DEMOLITION |

**Bohannan ▲ Huston**
www.bhinc.com 800.877.5332

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

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SHEET TITLE

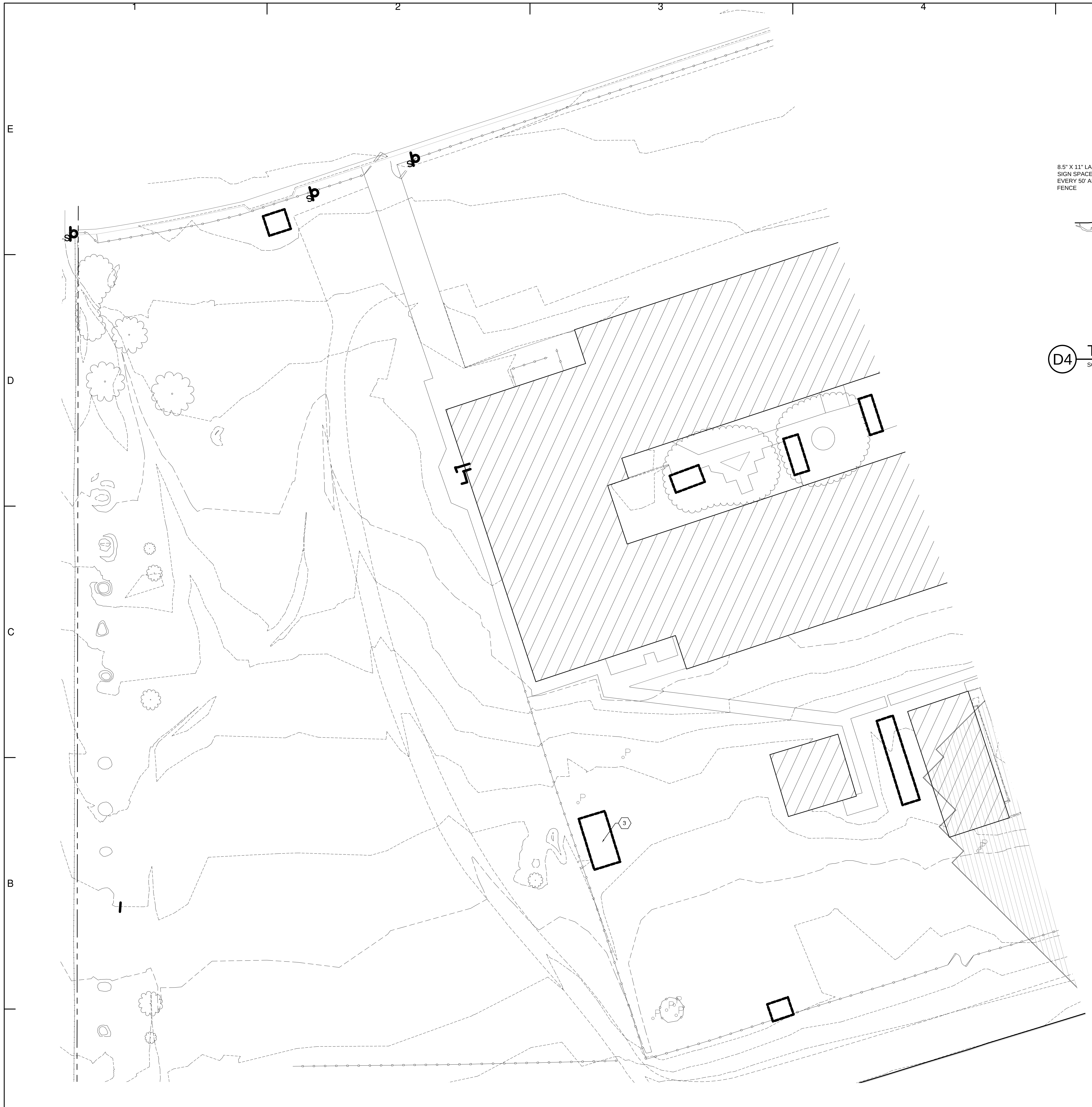
UTILITY PLAN

C210

School Information

6/16/2020

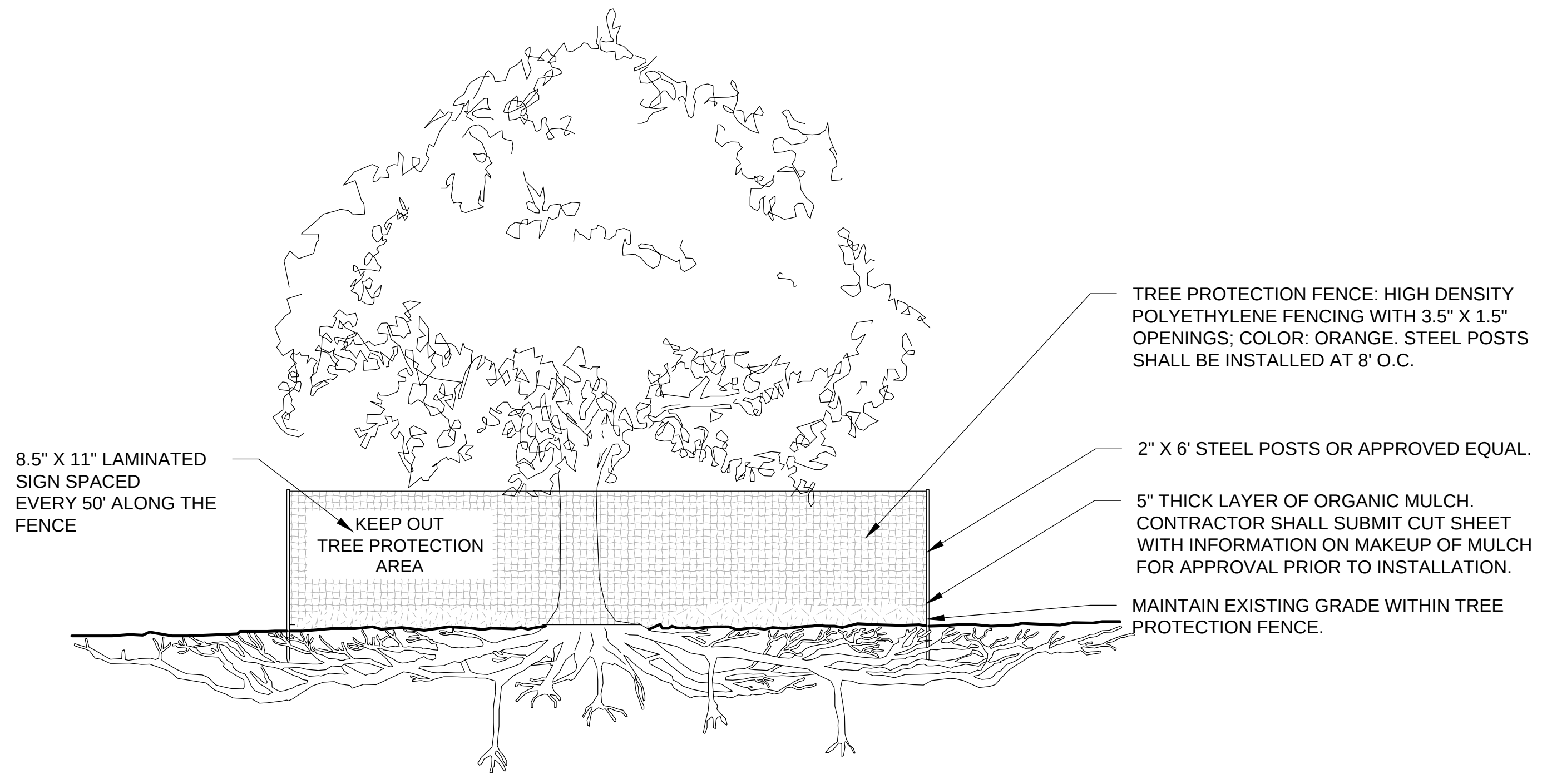
DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## A1 LANDSCAPE EARLY WORK PLAN

0 20' 40'

SCALE: 1" = 20'



8.5" X 11" LAMINATED SIGN SPACED EVERY 50' ALONG THE FENCE
KEEP OUT TREE PROTECTION AREA
TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS; COLOR: ORANGE. STEEL POSTS SHALL BE INSTALLED AT 8' O.C.
2" X 6' STEEL POSTS OR APPROVED EQUAL.
5" THICK LAYER OF ORGANIC MULCH. CONTRACTOR SHALL SUBMIT CUT SHEET WITH INFORMATION ON MAKEUP OF MULCH FOR APPROVAL PRIOR TO INSTALLATION.
MAINTAIN EXISTING GRADE WITHIN TREE PROTECTION FENCE.

NOTES:

1. TREE PROTECTION FENCING SHALL BE INSTALLED IN A CONTINUOUS LOOP ALONG THE DRIPLINE OF THE EXISTING TREE.
2. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
3. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
4. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
5. NO EQUIPMENT OR MATERIALS SHALL BE STORED WITHIN THE TREE PROTECTION FENCE.

## D4 TREE PROTECTION

SCALE: N.T.S.

### ⬡ EARLY WORK KEYED NOTES

1. SALVAGE AND STOCKPILE EXISTING PLAY EQUIPMENT FOR REUSE.
2. EXISTING TREE TO REMAIN. SEE GENERAL NOTE D AND DETAIL D4/LEW-101.
3. SALVAGE AND STOCKPILE EXISTING GREEN HOUSE FOR REUSE.

### EARLY WORK GENERAL NOTES

A. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION - MUD, DUST, DEBRIS, AND GRAFFITI FREE AT ALL TIME.

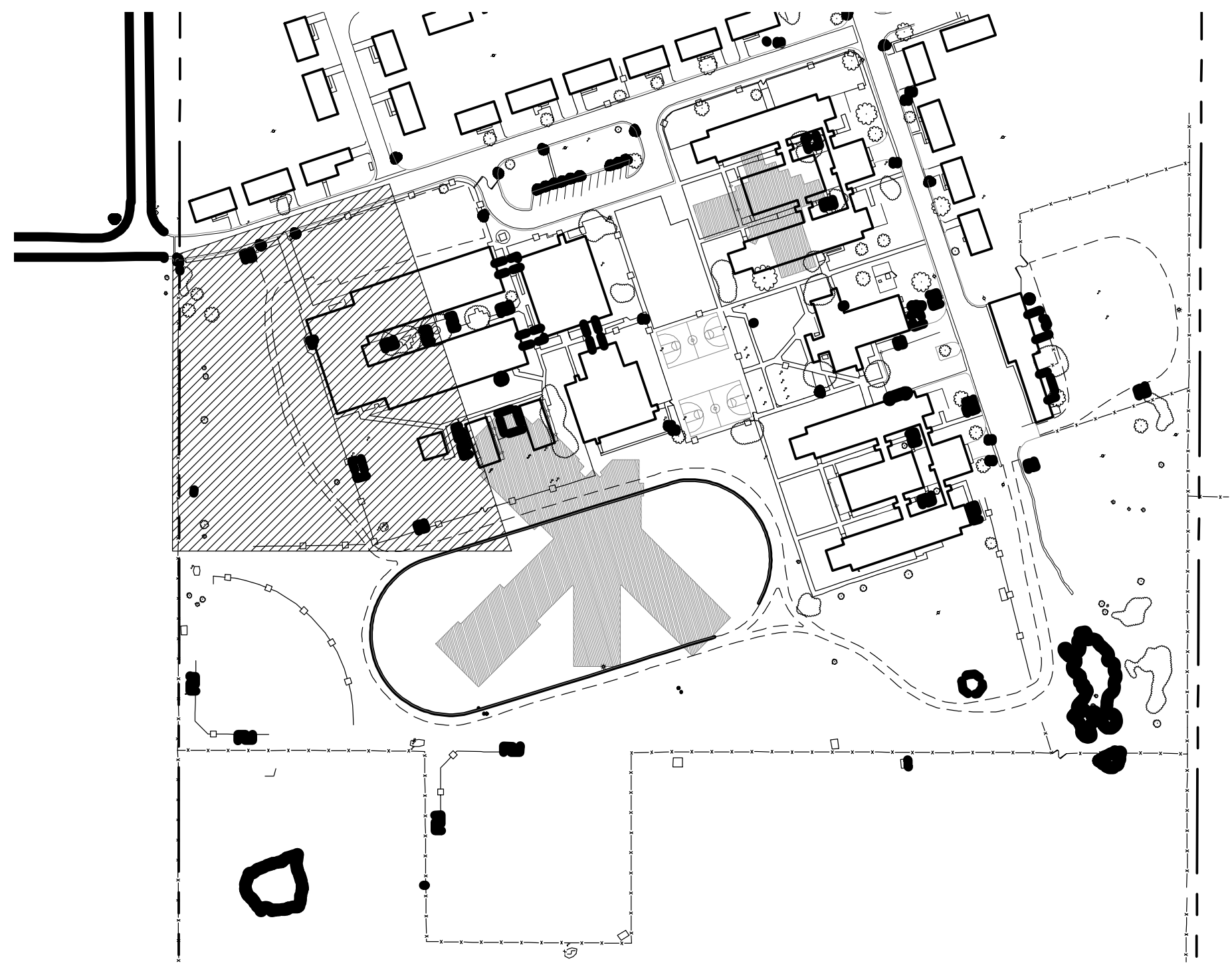
B. CONTRACTOR SHALL FILL AND COMPACT ALL VOIDS CREATED BY DEMOLITION WORK WITH CLEAN BACKFILL MATERIAL. BACKFILL SHALL BE COMPACTED TO 85% MODIFIED PROCTOR IN LANDSCAPE AREAS AND 95% IN PAVED AREAS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION VERIFICATION, SUPPORT, AND PROTECTION OF ALL ABOVEGROUND AND UNDERGROUND UTILITIES TO REMAIN IN PLACE INCLUDING ANY UTILITIES NOT INDICATED ON CONTRACT DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO LOCATE UNDERGROUND UTILITIES PRIOR TO COMMENCING THE DEMOLITION WORK. ANY DAMAGE TO EXISTING UTILITIES, INCLUDING THOSE NOT INDICATED ON THE CONTRACT DRAWINGS, RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

D. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING TREES DESIGNATED AS TO REMAIN FROM DAMAGE BY CONSTRUCTION OPERATIONS. ANY TREE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED WITH A TREE OF THE SAME SPECIES AND SIZE. IF SIZE OF EXISTING TREE IS NOT AVAILABLE CONTRACTOR SHALL REPLACE WITH A 2" CAL. TREE (DECIDUOUS) OF 6' HT. TREE (EVERGREEN) AND SHALL PROVIDE A CREDIT TO THE OWNER FOR THE MONETARY DIFFERENCE IN VALUE. ANY SHRUB DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY A SHRUB OF THE SAME SPECIES AND SIZE. IF SIZE OF EXISTING SHRUB IS NOT AVAILABLE CONTRACTOR SHALL REPLACE WITH A 5-GAL SHRUB AND SHALL PROVIDE A CREDIT TO THE OWNER FOR THE MONETARY DIFFERENCE IN VALUE. SEE DETAIL A4/LD-101.

### EARLY WORK HATCH LEGEND

| | |
|---|---|
| ▨ | SALVAGE EXISTING PLAY EQUIPMENT. SEE KEYED NOTE #1. |
| ▨ | PROPOSED BUILDING FOOTPRINT. SEE CIVIL. |



KEY MAP - N.T.S.

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
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Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
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One Park Square
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Albuquerque, NM 87110
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7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

ARCHITECT

**Dziłth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |

ISSUE:
DATE:
PROJECT NO:
CAD DWG FILE:
DRAWN BY: WM/MP
CHECKED BY: WM/AB

SHEET TITLE

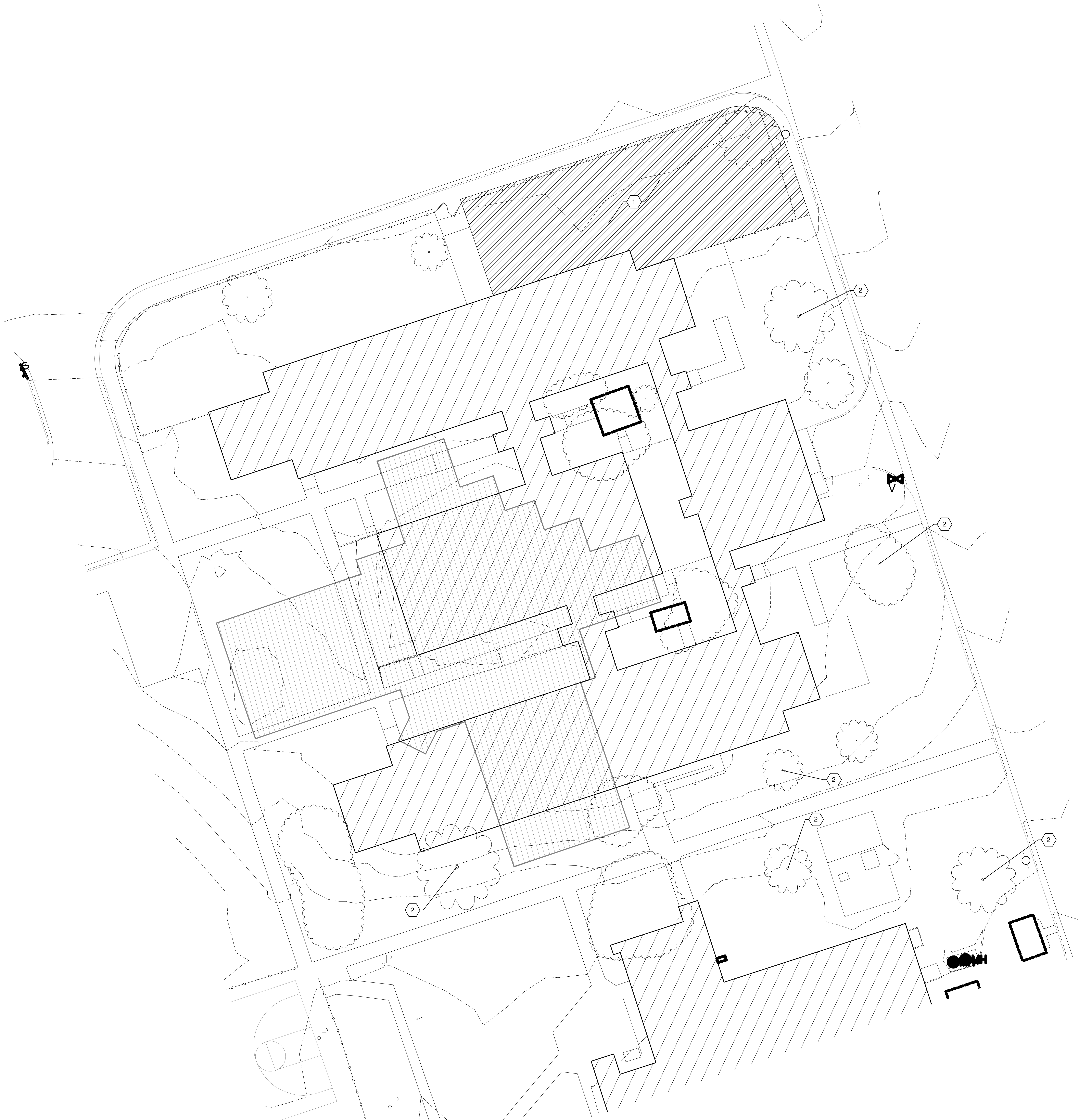
LANDSCAPE EARLY
WORK PLAN

# LEW-101

5/14/2020

Dziłth-Na-O-Dith-Hle Community School

DZIŁTH-NA-O-DITH-HLE COMMUNITY SCHOOL



## ⬡ EARLY WORK KEYED NOTES

1. SALVAGE AND STOCKPILE EXISTING PLAY EQUIPMENT FOR REUSE.
2. EXISTING TREE TO REMAIN. SEE GENERAL NOTE D AND DETAIL D4/LEW-101.
3. SALVAGE AND STOCKPILE EXISTING GREEN HOUSE FOR REUSE.

## EARLY WORK GENERAL NOTES

A. ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION - MUD, DUST, DEBRIS, AND GRAFFITI FREE AT ALL TIME.

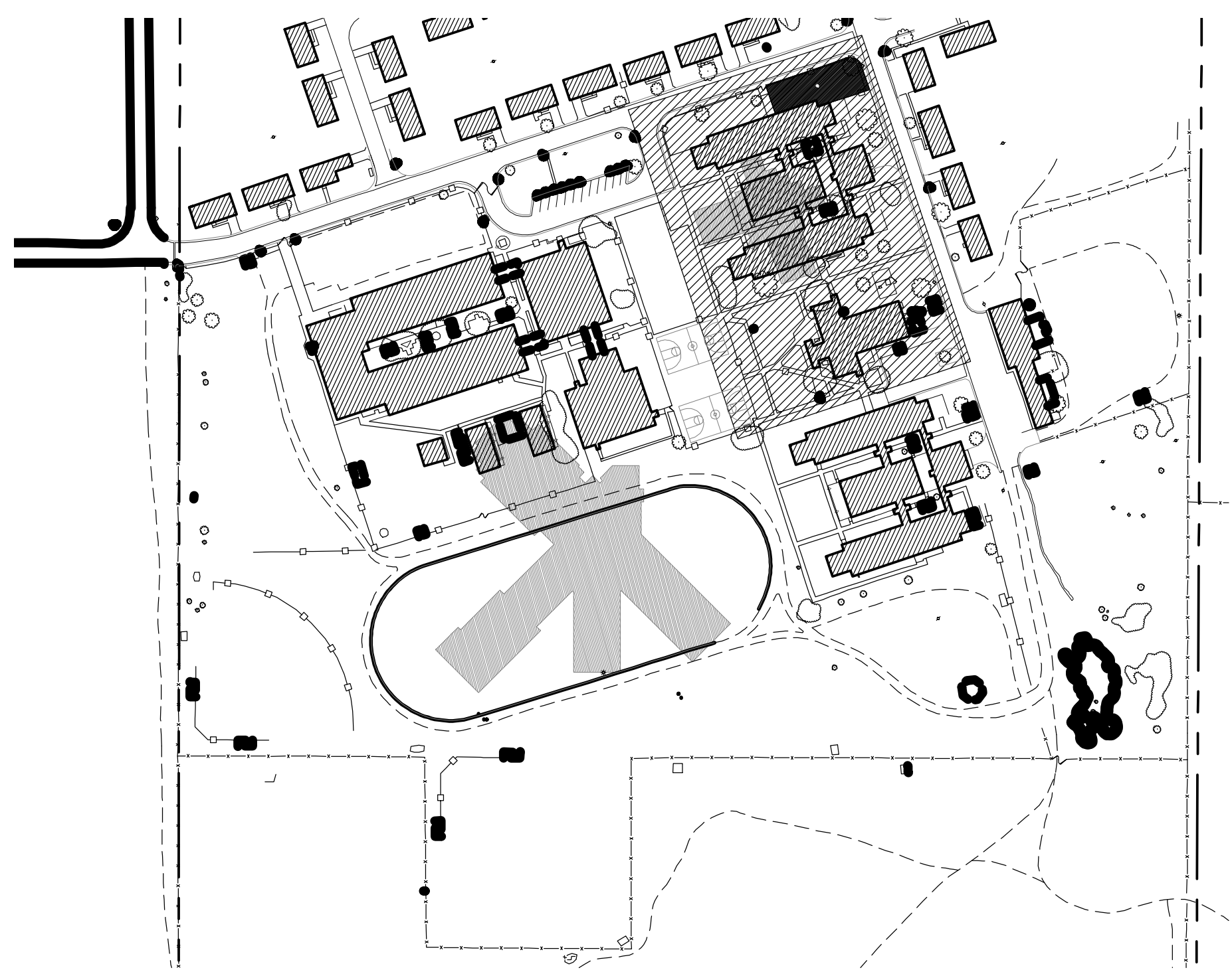
B. CONTRACTOR SHALL FILL AND COMPACT ALL VOIDS CREATED BY DEMOLITION WORK WITH CLEAN BACKFILL MATERIAL. BACKFILL SHALL BE COMPACTED TO 85% MODIFIED PROCTOR IN LANDSCAPE AREAS AND 95% IN PAVED AREAS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION VERIFICATION, SUPPORT, AND PROTECTION OF ALL ABOVEGROUND AND UNDERGROUND UTILITIES TO REMAIN IN PLACE INCLUDING ANY UTILITIES NOT INDICATED ON CONTRACT DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO LOCATE UNDERGROUND UTILITIES PRIOR TO COMMENCING THE DEMOLITION WORK. ANY DAMAGE TO EXISTING UTILITIES, INCLUDING THOSE NOT INDICATED ON THE CONTRACT DRAWINGS, RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

D. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING TREES DESIGNATED AS TO REMAIN FROM DAMAGE BY CONSTRUCTION OPERATIONS. ANY TREE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED WITH A TREE OF THE SAME SPECIES AND SIZE. IF SIZE OF EXISTING TREE IS NOT AVAILABLE CONTRACTOR SHALL REPLACE WITH A 2" CAL. TREE (DECIDUOUS) OF 6' HT. TREE (EVERGREEN) AND SHALL PROVIDE A CREDIT TO THE OWNER FOR THE MONETARY DIFFERENCE IN VALUE. ANY SHRUB DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY A SHRUB OF THE SAME SPECIES AND SIZE. IF SIZE OF EXISTING SHRUB IS NOT AVAILABLE CONTRACTOR SHALL REPLACE WITH A 5-GAL SHRUB AND SHALL PROVIDE A CREDIT TO THE OWNER FOR THE MONETARY DIFFERENCE IN VALUE. SEE DETAIL A4/LD-101.

## EARLY WORK HATCH LEGEND

| | |
|---|---|
| ▨ | SALVAGE EXISTING PLAY EQUIPMENT. SEE KEYED NOTE #1. |
| ▨ | PROPOSED BUILDING FOOTPRINT. SEE CIVIL. |



KEY MAP - N.T.S.

A1 LANDSCAPE EARLY WORK PLAN

0 20' 40'

SCALE: 1" = 20'

5/14/2020

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**Architecture**
**FBT Architects**
One Park Square
6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110
p_ 505.883.5200

**Landscape**
**Groundwork Studio**
One Park Square
6501 Americas Pkwy NE, Ste. 350
Albuquerque, NM 87110
p_ 505.212.9126

**Civil**
**Bohannan & Huston**
7500 Jefferson Street NE
Albuquerque, NM, 87109
p_505.823.1000

**M/E/P**
**Bridgers & Paxton**
4600 C Montgomery Blvd. NE
Albuquerque, NM, 87109
p_505.838.4111

ARCHITECT

Dziłth-Na-O-Dith-Hle Community School
"FOR EACH CHILD SUCCESS"

**Dziłth-Na-O-Dith-Hle**
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LANDSCAPE EARLY
WORK PLAN

LEW-102

Dziłth-Na-O-Dith-Hle Community School

# GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
NFPA 5000, 2018 EDITION
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10,
AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS
SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION
AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
AWS D1.1 AND D1.3

2. DESIGN CRITERIA:
A. VERTICAL:
LIVE LOAD
ROOF (SNOW) 25 PSF + DRIFTS

Is (IMPORTANCE FACTOR FOR SNOW) 1.1
* LOAD HAS NOT BEEN REDUCED
B. HORIZONTAL LOADS:
(1) WIND*
PROCEDURE PER SECTION 1609

P = WIND PRESSURE x λ Iw
WIND SPEED V3s=90 MPH
WIND PRESSURE : END ZONE 12.8 PSF
INTERIOR ZONE 8.5 PSF
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT FROM FIGURE 6-2 IN ASCE
IMPORTANCE FACTOR Iw = 1.15
HORIZONTAL WIND LOAD: END 19.6 PSF INTERIOR 13.0 PSF

(2) SEISMIC* V = Sds Ie W/ R
SPECTRAL ACCELERATIONS Ss=0.147
S1=0.057
SITE CLASS D
IMPORTANCE FACTOR Ie = 1.25
DESIGN SPECTRAL RESPONSE Sds = 0.157
ONE SECOND PERIOD RESPONSE ACCEL. Sd1 = 0.091
RESPONSE MODIFICATION COEFFICIENT R = 3.25
SEISMIC DESIGN CATEGORY D
SEISMIC FORCE V = 0.06 X W

* ALLOWABLE 1/3 STRESS INCREASE FOR SEISMIC LOADING
C. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF

3. GENERAL:
A. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY .
B. SHOP DRAWINGS, IN HARD COPY FORM, SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED.
C. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND REQUIRE RESUBMITTAL.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
E. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
F. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
G. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
H. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
I. REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:
A. CAST-IN-PLACE CONCRETE:
(1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.
(2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
(3) NORMALWEIGHT CONCRETE:
A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
B. F'C = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (AIR ENTRAINED) IE. , FOOTINGS, PEDESTALS, STEM WALLS, ETC.)
C. F'C = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.
D. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL WALLS.
(4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.
(5) FLYASH ADDITIVES MAY NOT EXCEED 20% OF THE CEMENTITIOUS MATERIAL.
(6) THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, MAY NOT EXCEED 50%.
(7) THE OWNER'S SPECIAL INSPECTOR SHALL MONITOR SAMPLING & TESTING PERFORMED BY THE CONTRACTOR'S TESTING AGENCY.
(8) MAXIMUM SLUMP FOR CONCRETE MIX DESIGN IS 4".
B. REINFORCING STEEL:
(1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315-99).
(2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
(3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
(4) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
A. VERTICAL REINFORCING:30 BAR DIA. (18" MINIMUM)
B. HORIZONTAL REINFORCING:30 BAR DIA. (18" MINIMUM)
(5) ALL HORIZONTAL REINFORCING IN FOOTINGS, BEAMS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS, (18 INCHES MINIMUM).
(6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
1. BARS LARGER THAN NO. 5........................2"
2. BARS NO. 5 OR SMALLER.........................1 1/2"
(7) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
(8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
(9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS. IF DRAWINGS SHOW REBAR TO BE WELDED, USE ASTM A706 REBAR.

C. STRUCTURAL AND MISCELLANEOUS STEEL:
(1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
(2) ALL W-SHAPED MEMBERS SHALL CONFORM TO ASTM A992 (Fy=50KSI).
ALL CHANNELS, ANGLES, & PLATES SHALL BE ASTM A36 (Fy=36KSI).
ALL PIPE STEEL SHALL BE ASTM A501 (Fy=36KSI).
(3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. FY = 46 KSI.
(4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
(5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
(6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
(7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
(8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
(9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PRE QUALIFICATION REQUIRED.

D. STEEL JOISTS:
(1) STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
(2) STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2002 STEEL JOIST INSTITUTE SPECIFICATIONS.
(3) NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
(4) WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
(5) PROVIDE BRIDGING IN ACCORDANCE WITH THE 42ND EDITION OF SJI STANDARD SPECIFICATIONS.

E. STEEL DECK:
(1) ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
(2) SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
(3) PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECKS.
(4) ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE AT SUPPORTS.
(5) DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
(6) POWER DRIVEN FASTENERS SHALL HAVE A MIN. 0.177 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.
(7) CONDUIT PARALLEL TO FLOOR DECK IN CONCRETE TOPPING IS PROHIBITED.

F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):
(1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007.
(2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" X 18 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
(3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
(4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
(5) ALL TRACK SHALL BE DEEP LEG (1 1/2" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANSION SLEEVE OR EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

G. MASONRY:
(1) ALL MASONRY UNITS SHALL BE TYPE I WITH A COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).
A. F'M = 1500 PSI
(2) MORTAR SHALL BE TYPE S, 1800 PSI.
(3) GROUT - F'C = 2000 PSI.
(4) ALL REINFORCED CELLS SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL IN ACCORDANCE WITH THE IBC.
(5) ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.
(6) UNLESS OTHERWISE NOTED, MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH THE LOW-LIFT METHOD AS DESCRIBED IN THE INTERNATIONAL BUILDING CODE. (MAX. 4 FT. LIFTS)
(7) ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID UP TO GRADE.
(8) LAP ALL REBAR 48 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS NOTED OTHERWISE.
(9) ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND A LAP OF 48 BAR DIAMETERS (24 INCHES MINIMUM). VERTICAL STEEL SHALL CONTINUE THROUGH BOND BEAMS.

5. POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERE'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL ADHESIVES AND MECHANICAL ANCHORS PER THE PRODUCT'S APPLICABLE ICC-ES EVALUATION REPORT (ICC-ES-ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099 OR HILTI AT (866) 445-8827.

A. CONCRETE ANCHORS:
1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 3552 AND ICC-ES ACI93 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
b. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)
2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR HILTI "HIT-RE 500-SD" (ICC-ES ESR-2322)

B. MASONRY ANCHORS:

1. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ACI06.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
1SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) OR HILTI "HUS-H" (ICC-ES ESR-2369)
2. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) OR HILTI "KWIK BOLT 3" (ICC-ES ESR-1385)
b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
1.SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) OR HILTI "HIT-HY 150" (ICC-ES ESR-2678
2.SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ESR-5791_ OR HILTI "HIT-HY 200 MAX" (ICC-ES ESR-1967)

6. QUALITY ASSURANCE TESTS AND INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:
A. CONCRETE:
(1) DURING THE TAKING ON TEST SPECIMENS.
(2) DURING THE PLACEMENT OF ALL REINFORCED CONCRETE.
B. BOLTS IN CONCRETE:
(1) DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
C. REINFORCING STEEL (PERIODIC):
(1) DURING THE PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
D. WELDING:
(1) VISUAL INSPECTION OF ALL FIELD WELDS.
(2) NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
E. HIGH STRENGTH BOLTING:
(1) VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR A325N BOLTS.
(2) VERIFICATION OF SLIP CRITICAL (SC) BOLTS AT ALL BRACED FRAMES.
F. EXPANSION AND EPOXY BOLTS:
(1) DURING THE PLACEMENT OF ALL EXPANSION AND EPOXY BOLTS, FOR VISUAL VERIFICATION OF HOLE DIAMETER AND DEPTH AND PLACEMENT OF BOLT AND/OR EPOXY.
G. DUTIES AND RESPONSIBILITIES OF THE QUALITY ASSURANCE INSPECTOR:
(1) THE QUALITY ASSURANCE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
(2) THE QUALITY ASSURANCE INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD.
H. QUALITY ASSURANCE INSPECTOR IS TO BE HIRED BY OWNER, NOT CONTRACTOR.

# GENERAL FOUNDATION NOTES

1. GENERAL:
A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY WESTERN TECHNOLOGIES. A REPORT OF THAT INVESTIGATION DATED MAY 18, 2020 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT. SOILS INFORMATION PROVIDED ON THIS SHEET IS ONLY A SUMMARY OF THAT REPORT.
B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

2. FIELD OBSERVATION AND TESTS:
A. THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK AND SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK .
B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
(1) ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
(2) ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
(3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
(4) FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.
C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. CLEARING AND GRUBBING:
A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.
B REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/ OR FOOTINGS ARE TO BE CONSTRUCTED
C REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
B. BUILDING PADS SHOULD BE OVEREXCAVATED TO ALLOW THE PLACEMENT OF A MINIMUM 30 INCHES OF NON-EXPANSIVE STRUCTURAL FILL BENEATH FOUNDATIONS. THE OVER-EXCAVATION SHALL NOT EXTEND LATERALLY BEYOND THE EDGE OF THE FOUNDATIONS.
C. ON-SITE SOILS ARE GENERALLY SUITABLE FOR USE AS STRUCTURAL FILL MATERIAL, SEE SOIL INVESTIGATION REPORT FOR RECOMMENDATIONS.
D. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO 0 TO 4% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
5. STRUCTURAL FILL REQUIREMENTS:
A. GRADATION (ASTM C136):

| SIEVE SIZE | PERCENT PASSING BY WEIGHT |
|---|---|
| 3/4" | 70-100 |
| 4" | 85-100 |
| 6" | 100 |
| NO. 4 | 50-100 |
| NO. 200 | 30 (MAX) |

B. MAXIMUM EXPANSIVE POTENTIAL = 1.5%.
C. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
6. COMPACTION REQUIREMENTS:
A. STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%).

| MATERIAL | MINIMUM PERCENT COMPACTION |
|---|---|
| STRUCTURAL FILL IN THE BUILDING AREA | 95 |
| SUBBASE FOR SLAB SUPPORT | 93 TO 97 |
| SUBGRADE BELOW STRUCTURAL FILL | 93 TO 97 |
| MISCELLANEOUS BACKFILL | 90 |

## LIGHTGAGE SCHEDULE

| DEPTH | GAGE | AREA IN | Ix IN4 | Sx IN3 | Fy KSI |
|---|---|---|---|---|---|
| C 4" | 20 | 0.275 | 0.692 | 0.346 | 33 |
| C 4" | 18 | 0.357 | 0.892 | 0.446 | 33 |
| C 6" | 18 | 0.447 | 2.316 | 0.772 | 33 |
| C 8" | 18 | 0.537 | 4.634 | 1.159 | 33 |
| T 4" | 20 | 0.225 | 0.549 | 0.346 | 33 |
| T 4" | 18 | 0.315 | 0.811 | 0.390 | 33 |
| T 6" | 18 | 0.405 | 2.072 | 0.673 | 33 |
| T 8" | 18 | 0.496 | 4.144 | 1.015 | 33 |

"C" INDICATES STUD, 1 5/8" FLANGES
"T" INDICATES DEEP LEG TRACK, 1 1/2" FLANGES

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle - New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM 87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE
GENERAL STRUCTURAL NOTES

S-001

School Information

Dzilth-Na-O-Dith-Hle - New School

7/1/2020 4:36:37 PM

# GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
INTERNATIONAL BUILDING CODE, 2015 EDITION
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10,
AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS
SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION
AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
AWS D1.1 AND D1.3

2. DESIGN CRITERIA:
A. VERTICAL:
LIVE LOAD

| | |
|---|---|
| ROOF (SNOW) | 25 PSF + DRIFTS |
| Is (IMPORTANCE FACTOR FOR SNOW) | 1.1 |

* LOAD HAS NOT BEEN REDUCED

B. HORIZONTAL LOADS:
(1) WIND*
PROCEDURE PER SECTION 1609

P = WIND PRESSURE x λ Iw

| | | |
|---|---|---|
| WIND SPEED | V3s=90 MPH | |
| WIND PRESSURE : END ZONE | 12.8 PSF | |
| INTERIOR ZONE | 8.5 PSF | |
| HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT FROM FIGURE 6-2 IN ASCE | | |
| IMPORTANCE FACTOR | Iw = 1.15 | |
| HORIZONTAL WIND LOAD: | END | INTERIOR |
| | 19.6 PSF | 13.0 PSF |

| | |
|---|---|
| (2) SEISMIC* | V = Sds Ie W/ R |
| SPECTRAL ACCELERATIONS | Ss=0.147 |
| | S1=0.057 |
| SITE CLASS | D |
| IMPORTANCE FACTOR | Ie = 1.25 |
| DESIGN SPECTRAL RESPONSE | Sds = 0.157 |
| ONE SECOND PERIOD RESPONSE ACCEL. | Sd1 = 0.091 |
| RESPONSE MODIFICATION COEFFICIENT | R = 3.25 |
| SEISMIC DESIGN CATEGORY | D |
| SEISMIC FORCE | V = 0.06 X W |

* ALLOWABLE 1/3 STRESS INCREASE FOR SEISMIC LOADING

C. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF

3. GENERAL:
A. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY .
B. SHOP DRAWINGS, IN HARD COPY FORM, SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED.
C. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND REQUIRE RESUBMITTAL.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
E. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
F. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
G. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
H. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
I. REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:
A. CAST-IN-PLACE CONCRETE:
(1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.
(2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
(3) NORMALWEIGHT CONCRETE:
A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
B. F'C = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (AIR ENTRAINED) IE. , FOOTINGS, PEDESTALS, STEM WALLS, ETC.)
C. F'C = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.
D. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL WALLS.
(4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.
(5) FLYASH ADDITIVES MAY NOT EXCEED 20% OF THE CEMENTITIOUS MATERIAL.
(6) THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, MAY NOT EXCEED 50%.
(7) THE OWNER'S SPECIAL INSPECTOR SHALL MONITOR SAMPLING & TESTING PERFORMED BY THE CONTRACTOR'S TESTING AGENCY.
(8) MAXIMUM SLUMP FOR CONCRETE MIX DESIGN IS 4".

B. REINFORCING STEEL:
(1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315-99).
(2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
(3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
(4) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
A. VERTICAL REINFORCING:30 BAR DIA. (18" MINIMUM)
B. HORIZONTAL REINFORCING:30 BAR DIA. (18" MINIMUM)
(5) ALL HORIZONTAL REINFORCING IN FOOTINGS, BEAMS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS, (18 INCHES MINIMUM).
(6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
1. BARS LARGER THAN NO. 5.......................2"
2. BARS NO. 5 OR SMALLER........................1 1/2"
(7) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
(8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
(9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS. IF DRAWINGS SHOW REBAR TO BE WELDED, USE ASTM A706 REBAR.

C. STRUCTURAL AND MISCELLANEOUS STEEL:
(1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
(2) ALL W-SHAPED MEMBERS SHALL CONFORM TO ASTM A992 (Fy=50KSI). ALL CHANNELS, ANGLES, & PLATES SHALL BE ASTM A36 (Fy=36KSI). ALL PIPE STEEL SHALL BE ASTM A501 (Fy=36KSI).
(3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. FY = 46 KSI.
(4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
(5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
(6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
(7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
(8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
(9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PRE QUALIFICATION REQUIRED.

D. STEEL JOISTS:
(1) STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
(2) STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2002 STEEL JOIST INSTITUTE SPECIFICATIONS.
(3) NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
(4) WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
(5) PROVIDE BRIDGING IN ACCORDANCE WITH THE 42ND EDITION OF SJI STANDARD SPECIFICATIONS.

E. STEEL DECK:
(1) ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
(2) SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
(3) PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECKS.
(4) ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE AT SUPPORTS.
(5) DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
(6) POWER DRIVEN FASTENERS SHALL HAVE A MIN. 0.177 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.
(7) CONDUIT PARALLEL TO FLOOR DECK IN CONCRETE TOPPING IS PROHIBITED.

F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):
(1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007.
(2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" X 18 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
(3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
(4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
(5) ALL TRACK SHALL BE DEEP LEG (1 1/2" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANSION SLEEVE OR EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

G. MASONRY:
(1) ALL MASONRY UNITS SHALL BE TYPE I WITH A COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).
A. F'M = 1500 PSI
(2) MORTAR SHALL BE TYPE S, 1800 PSI.
(3) GROUT - F'C = 2000 PSI.
(4) ALL REINFORCED CELLS SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL IN ACCORDANCE WITH THE IBC.
(5) ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.
(6) UNLESS OTHERWISE NOTED, MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH THE LOW-LIFT METHOD AS DESCRIBED IN THE INTERNATIONAL BUILDING CODE. (MAX. 4 FT. LIFTS)
(7) ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID UP TO GRADE.
(8) LAP ALL REBAR 48 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS NOTED OTHERWISE.
(9) ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND A LAP OF 48 BAR DIAMETERS (24 INCHES MINIMUM). VERTICAL STEEL SHALL CONTINUE THROUGH BOND BEAMS.

5. POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERE'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL ADHESIVES AND MECHANICAL ANCHORS PER THE PRODUCT'S APPLICABLE ICC-ES EVALUATION REPORT (ICC-ES-ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099 OR HILTI AT (866) 445-8827.

A. CONCRETE ANCHORS:
1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 3552 AND ICC-ES ACI93 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
b. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)
2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR HILTI "HIT-RE 500-SD" (ICC-ES ESR-2322)

B. MASONRY ANCHORS:
1. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ACI06.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
1SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) OR HILTI "HUS-H" (ICC-ES ESR-2369)
2. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) OR HILTI "KWIK BOLT 3" (ICC-ES ESR-1385)
b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
1.SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) OR HILTI "HIT-HY 150" (ICC-ES ESR-2678
2.SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ESR-5791_ OR HILTI "HIT-HY 200 MAX" (ICC-ES ESR-1967)

6. PER IBC SECTION 1705, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS:
A. CONCRETE:
(1) DURING THE TAKING ON TEST SPECIMENS.
(2) DURING THE PLACEMENT OF ALL REINFORCED CONCRETE.
B. BOLTS IN CONCRETE:
(1) DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
C. REINFORCING STEEL (PERIODIC):
(1) DURING THE PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
D. WELDING:
(1) VISUAL INSPECTION OF ALL FIELD WELDS.
(2) NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
E. HIGH STRENGTH BOLTING:
(1) VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR A325N BOLTS.
(2) VERIFICATION OF SLIP CRITICAL (SC) BOLTS AT ALL BRACED FRAMES.
F. EXPANSION AND EPOXY BOLTS:
(1) DURING THE PLACEMENT OF ALL EXPANSION AND EPOXY BOLTS, FOR VISUAL VERIFICATION OF HOLE DIAMETER AND DEPTH AND PLACEMENT OF BOLT AND/OR EPOXY.
G. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
(1) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
(2) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD.
H. SPECIAL INSPECTOR IS TO BE HIRED BY OWNER, NOT CONTRACTOR.

# GENERAL FOUNDATION NOTES

1. GENERAL:
A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY WESTERN TECHNOLOGIES. A REPORT OF THAT INVESTIGATION DATED MAY 18, 2020 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT. SOILS INFORMATION PROVIDED ON THIS SHEET IS ONLY A SUMMARY OF THAT REPORT.
B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

2. FIELD OBSERVATION AND TESTS:
A. THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK AND SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK .
B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
(1) ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
(2) ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
(3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
(4) FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.
C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. CLEARING AND GRUBBING:
A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.
B REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/ OR FOOTINGS ARE TO BE CONSTRUCTED
C REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
B. BUILDING PADS SHOULD BE OVEREXCAVATED TO ALLOW THE PLACEMENT OF A MINIMUM 30 INCHES OF NON-EXPANSIVE STRUCTURAL FILL BENEATH FOUNDATIONS. THE OVER-EXCAVATION SHALL NOT EXTEND LATERALLY BEYOND THE EDGE OF THE FOUNDATIONS.
C. ON-SITE SOILS ARE GENERALLY SUITABLE FOR USE AS STRUCTURAL FILL MATERIAL, SEE SOIL INVESTIGATION REPORT FOR RECOMMENDATIONS.
D. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO 0 TO 4% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

5. STRUCTURAL FILL REQUIREMENTS:
A. GRADATION (ASTM C136):

| SIEVE SIZE | PERCENT PASSING BY WEIGHT |
|---|---|
| 3/4" | 70-100 |
| 4" | 85-100 |
| 6" | 100 |
| NO. 4 | 50-100 |
| NO. 200 | 30 (MAX) |

B. MAXIMUM EXPANSIVE POTENTIAL = 1.5%.
C. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

6. COMPACTION REQUIREMENTS:
A. STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%).

| MATERIAL | MINIMUM PERCENT COMPACTION |
|---|---|
| STRUCTURAL FILL IN THE BUILDING AREA | 95 |
| SUBBASE FOR SLAB SUPPORT | 93 TO 97 |
| SUBGRADE BELOW STRUCTURAL FILL | 93 TO 97 |
| MISCELLANEOUS BACKFILL | 90 |

## LIGHTGAGE SCHEDULE

| DEPTH | GAGE | AREA IN | Ix IN4 | Sx IN3 | Fy KSI |
|---|---|---|---|---|---|
| C 4" | 20 | 0.275 | 0.692 | 0.346 | 33 |
| C 4" | 18 | 0.357 | 0.892 | 0.446 | 33 |
| C 6" | 18 | 0.447 | 2.316 | 0.772 | 33 |
| C 8" | 18 | 0.537 | 4.634 | 1.159 | 33 |
| T 4" | 20 | 0.225 | 0.549 | 0.346 | 33 |
| T 4" | 18 | 0.315 | 0.811 | 0.390 | 33 |
| T 6" | 18 | 0.405 | 2.072 | 0.673 | 33 |
| T 8" | 18 | 0.496 | 4.144 | 1.015 | 33 |

"C" INDICATES STUD, 1 5/8" FLANGES
"T" INDICATES DEEP LEG TRACK, 1 1/2" FLANGES

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE
GENERAL STRUCTURAL NOTES

S-001

School Information

# SCHEDULE OF STRUCTURAL QUALITY ASSURANCE INSPECTIONS

1. QUALITY ASSURANCE INSPECTIONS / TESTING - "QUALITY ASSURANCE INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC.

2. REPORTING FOR QUALITY ASSURANCE INSPECTION - QUALITY ASSURANCE INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. QUALITY ASSURANCE INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.

3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL QUALITY ASSURANCE INSPECTION ITEMS.

IN ACCORDANCE WITH NFPA 5000 CHAPTER 40, THE FOLLOWING TYPES OF WORK REQUIRE QUALITY ASSURANCE INSPECTIONS AND TESTING:

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF SOILS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC REFERENCE |
|---|---|---|---|---|
| Y | 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | ----- | X | 1705.6 |
| Y | 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | ----- | X | 1705.6 |
| Y | 3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. | ----- | X | 1705.6 |
| Y | 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. | X | ----- | 1705.6 |
| Y | 5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | ----- | X | 1705.6 |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| Y | 1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT. | ----- | X | 1908.4 | ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3 |
| | 2. REINFORCING BAR WELDING: | | | ----- | AWS D1.4<br>ACI 318: 26.6.4 |
| N | a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706, | ----- | X | | |
| N | b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$", AND | | X | | |
| N | c. INSPECT ALL OTHER WELDS. | X | | | |
| Y | 3. INSPECT ANCHORS CAST IN CONCRETE. | ----- | X | ----- | ACI 318: 17.8.2 |
| Y | 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.<br>a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | | ----- | ACI 318: 17.8.2.4 |
| | b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. | | X | | ACI 318: 17.8.2 |
| Y | 5. VERIFYING USE OF REQUIRED DESIGN MIX. | ----- | X | 1904.1, 1904.2, 1908.2, 1908.3 | ACI 318: CH. 19, 26.4.3, 26.4.4 |
| Y | 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | ----- | 1908.10 | ASTM C172<br>ASTM C31<br>ACI 318: 26.4, 26.12 |
| Y | 7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | ----- | 1908.6, 1908.7 1908.8 | ACI 318: 26.5 |
| Y | 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | ----- | X | 1908.9 | ACI 318: 26.5.3 -26.5.5 |
| N | 9. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | ----- | X | ----- | ACI 318: 26.8 |
| N | 10. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | ----- | X | ----- | ACI 318: 26.11.2 |
| Y | 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | ----- | X | ----- | ACI 318: 26.11.1.2(b) |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| | 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | X | ----- | APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360 SECTION A3.3 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | X | ----- | ----- |
| | 2. INSPECTION OF HIGH-STRENGTH BOLTING: | | | | |
| Y | a. SNUG-TIGHT JOINTS | ----- | X | 1705.2.1 | AISC 360, SECTION M2.5 |
| Y | b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION | ----- | X | | |
| Y | c. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION | X | ----- | | |
| | 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | | |
| Y | a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 | ----- | X | | AISC 360 SECTION M5.5 |
| Y | b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS | ----- | X | | APPLICABLE ASTM MATERIAL STANDARDS |
| Y | c. MANUFACTURERS CERTIFIED TEST REPORTS | ----- | X | | |
| | 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | ----- | ----- | AISC 360, SECTION A3.5 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | ----- | ----- | ----- |
| | 5. INSPECTION OF WELDING:<br>a. STRUCTURAL STEEL : | | | | |
| Y | 1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. | X | ----- | 1705.2 | AWS D1.1 |
| N | 2) MULTIPASS FILLET WELDS. | X | ----- | | |
| N | 3) SINGLE-PASS FILLET WELDS > 5/16" | X | ----- | | |
| Y | 4) PLUG & SLOT WELDS | X | ----- | | |
| Y | 5) SINGLE-PASS FILLET WELDS < 5/16" | ----- | X | | |
| N | 6) ROOF DECK WELDS. | ----- | X | ----- | AWS D1.3 |
| N | b. REINFORCING STEEL: | ----- | ----- | ----- | AWS D1.4<br>ACI 318 3.5.2 |
| N | 1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. | ----- | X | | |
| N | 2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 3) SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 4) OTHER REINFORCING STEEL. | ----- | X | | |
| | 6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: | | | | |
| N | a. DETAILS SUCH AS BRACING AND STIFFENING. | ----- | X | 1705.1.1 | ----- |
| Y | b. MEMBER LOCATIONS. | ----- | X | | |
| Y | c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. | ----- | X | | |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL DECK CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION 1705.2.2 |
| Y | VERIFY DECK MATERIALS AND MILL CERTIFICATIONS | ----- | X | SDI-QA/QC |
| Y | VERIFY FIELD WELDING OF DECK | ----- | X | AWS D1.3, SDI C, SDI NC, SDI RD |
| Y | VERIFY MECHANICAL FASTENERS | ----- | | SDI C, SDI NC, SDI RD |
| Y | VERIFY STEEL DECK INSTALLATION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS | | | SDI C, SDI NC, SDI RD |

## REQUIRED QUALITY ASSURANCE INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. | | | |
| Y | a. END CONNECTIONS - WELDED OR BOLTED. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| | b. BRIDGING - HORIZONTAL OR DIAGONAL. | ----- | | |
| Y | 1. STANDARD BRIDGING. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| Y | 2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1. | | X | |

## QUALITY ASSURANCE INSPECTION OF SEISMIC FORCE RESISTING SYSTEMS (REQUIRED WHEN SDC = C, D, E OR F) AND DESIGNATED SEISMIC SYSTEMS (REQUIRED WHEN SDC=D,E OR F)

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. STRUCTURAL STEEL: | | | |
| Y | a. STRUCTURAL WELDING REQUIRED BY AISC 341 | X | ----- | 1705.2.1 |
| | 2. STRUCTURAL WOOD: | | | |
| Y | a. FIELD GLUING OPERATIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM. | X | ----- | 1705.11.1 |
| Y | b. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS. (ENGINEERS NOTE: SEE SECTIONS 1707.3 & 1705.3 EXCEPTION.) | ----- | X | 1705.11.1 |
| | 3. COLD - FORMED STEEL FRAMING: | | | |
| Y | a. WELDING OF ELEMENTS IN SEISMIC-FORCE RESISTANCE | ----- | X | 1705.12.1.2 |
| Y | b. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM. | ----- | X | 1705.12.1.2 |
| Y | 4. ANCHORAGE. | ----- | X | 1705.12.7 |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF COLD FORMED METAL FRAMING

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| Y | 1. SEATING OF STUDS IN TRACK. | ----- | X | ----- |
| Y | 2. WELDING OF ELEMENTS. | ----- | X | 1705.12.3 |
| Y | 3. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS. | ----- | X | 1705.12.3 |
| Y | 4. STEEL STUD BRIDGING SPACING AND END ATTACHMENT. | ----- | X | 1705.12.3 |
| Y | 5. WELDED CONNECTIONS ARE TOUCHED UP WITH PAINT. | ----- | X | 1705.12.3 |
| Y | 6. VERIFY STRUCTURAL STUD SIZE, DEPTH, AND GAGE. | ----- | X | 1705.12.3 |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF MASONRY - LEVEL #1

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|---|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | ACI 530/ASCE 5/TMS 402 | ACI 530.1/ASCE 6/TMS 602 |
| Y | 1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED | ----- | X | ----- | ----- | ART. 1.5 |
| Y | 2. VERIFICATION OF F'm AND F'AAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE | ----- | X | ----- | ----- | ART. 1.4B |
| Y | 3. VERIFICATION OF SLUMP FLOW AND VSI AS DELOVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT | X | ----- | ----- | ----- | ART. 1.5B.1.b3 |
| Y | 4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | | | |
| Y | a. PROPORTIONS OF SITE - PREPARED MORTAR. | ----- | X | ----- | ----- | ART. 2.6A |
| Y | b. CONSTRUCTION OF MORTAR JOINTS. | ----- | X | ----- | ----- | ART. 3.3B |
| Y | c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | ----- | ART. 3.4, 3.6A |
| Y | d. PRESTRESSING TECHNIQUE | ----- | X | ----- | ----- | ART. 3.6B |
| Y | e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | ----- | ART. 2.4B, 2.4H |
| | 5. THE INSPECTION PROGRAM SHALL VERIFY: | | | | | |
| Y | a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | ----- | X | ----- | ----- | ART. 3.F |
| Y | b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION. | ----- | X | ----- | SEC. 1.2.2(e), 1.16.1 | ----- |
| Y | c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES | ----- | X | ----- | SEC. 1.15 | ART. 2.4, 3.4 |
| Y | d. WELDING OF REINFORCING BARS. | X | ----- | ----- | SEC. 2.1.9.7.2, 3.3.3.4(b) | ----- |
| Y | e. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F) | ----- | X | SECTION 2104.3, 2104.4 | ----- | ART. 1.8C, 1.8D |
| Y | f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCES. | X | ----- | ----- | ----- | ART. 3.6B |
| | 6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | | | |
| Y | a. GROUT SPACE IS CLEAN. | ----- | X | ----- | ----- | ART. 3.2D |
| Y | b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | SEC. 1.13 | ART. 3.4 |
| Y | c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. | ----- | X | ----- | ----- | ART. 2.6B |
| Y | d. CONSTRUCTION OF MORTAR JOINTS. | ----- | X | ----- | ----- | ART. 3.3B |
| Y | 7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. | X | ----- | ----- | ----- | ART. 3.5 |
| Y | a. GROUTING OF PRESTRESSING BONDED TENDONS | X | ----- | ----- | ----- | ART. 3.6C |
| Y | 8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED. | ----- | X | SECTION 2105.2.2, 2105.3 | ----- | ART. 1.4 |

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 5 | | |

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

STRUCTURAL QUALITY
ASSURANCE INSPECTIONS

S-002

School Information

# SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS / TESTING - "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC.
2. REPORTING FOR SPECIAL INSPECTION - SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.

IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

## SPECIAL INSPECTION AND VERIFICATION OF SOILS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC REFERENCE |
|---|---|---|---|---|
| Y | 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | ----- | X | 1705.6 |
| Y | 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | ----- | X | 1705.6 |
| Y | 3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. | ----- | X | 1705.6 |
| Y | 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. | X | ----- | 1705.6 |
| Y | 5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | ----- | X | 1705.6 |

## SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCE D STANDARD |
| Y | 1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT. | ----- | X | 1908.4 | ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3 |
| N | 2. REINFORCING BAR WELDING:<br>a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706, | ----- | X | ----- | AWS D1.4<br>ACI 318: 26.6.4 |
| N | b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$", AND | | X | | |
| N | c. INSPECT ALL OTHER WELDS. | X | | | |
| Y | 3. INSPECT ANCHORS CAST IN CONCRETE. | ----- | X | ----- | ACI 318: 17.8.2 |
| Y | 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.<br>a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | | ----- | ACI 318: 17.8.2.4 |
| | b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. | | X | | ACI 318: 17.8.2 |
| Y | 5. VERIFYING USE OF REQUIRED DESIGN MIX. | ----- | X | 1904.1, 1904.2, 1908.2, 1908.3 | ACI 318: CH. 19, 26.4.3, 26.4.4 |
| Y | 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | ----- | 1908.10 | ASTM C172<br>ASTM C31<br>ACI 318: 26.4, 26.12 |
| Y | 7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | ----- | 1908.6, 1908.7 1908.8 | ACI 318: 26.5 |
| Y | 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | ----- | X | 1908.9 | ACI 318: 26.5.3 -26.5.5 |
| N | 9. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | ----- | X | ----- | ACI 318: 26.8 |
| N | 10. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | ----- | X | ----- | ACI 318: 26.11.2 |
| Y | 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | ----- | X | ----- | ACI 318: 26.11.1.2(b) |

## SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| | 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | X | ----- | APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360 SECTION A3.3 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | X | ----- | ----- |
| | 2. INSPECTION OF HIGH-STRENGTH BOLTING: | | | | |
| Y | a. SNUG-TIGHT JOINTS | ----- | X | 1705.2.1 | AISC 360, SECTION M2.5 |
| Y | b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION | ----- | X | | |
| Y | c. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION | X | ----- | | |
| | 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | | |
| Y | a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 | ----- | X | | AISC 360 SECTION M5.5 |
| Y | b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS | ----- | X | | APPLICABLE ASTM MATERIAL STANDARDS |
| Y | c. MANUFACTURERS CERTIFIED TEST REPORTS | ----- | X | | |
| | 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | ----- | ----- | AISC 360, SECTION A3.5 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | ----- | ----- | ----- |
| | 5. INSPECTION OF WELDING:<br>a. STRUCTURAL STEEL : | | | | |
| Y | 1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. | X | ----- | 1705.2 | AWS D1.1 |
| N | 2) MULTIPASS FILLET WELDS. | X | ----- | | |
| N | 3) SINGLE-PASS FILLET WELDS > 5/16" | X | ----- | | |
| Y | 4) PLUG & SLOT WELDS | X | ----- | | |
| Y | 5) SINGLE-PASS FILLET WELDS < 5/16" | ----- | X | | |
| N | 6) ROOF DECK WELDS. | ----- | X | ----- | AWS D1.3 |
| N | b. REINFORCING STEEL: | ----- | ----- | ----- | AWS D1.4<br>ACI 318 3.5.2 |
| N | 1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. | ----- | X | | |
| N | 2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 3) SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 4) OTHER REINFORCING STEEL. | ----- | X | | |
| | 6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: | | | | |
| N | a. DETAILS SUCH AS BRACING AND STIFFENING. | ----- | X | 1705.1.1 | ----- |
| Y | b. MEMBER LOCATIONS. | ----- | X | | |
| Y | c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. | ----- | X | | |

## SPECIAL INSPECTION AND VERIFICATION OF STEEL DECK CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION 1705.2.2 |
| Y | VERIFY DECK MATERIALS AND MILL CERTIFICATIONS | ----- | X | SDI-QA/QC |
| Y | VERIFY FIELD WELDING OF DECK | ----- | X | AWS D1.3, SDI C, SDI NC, SDI RD |
| Y | VERIFY MECHANICAL FASTENERS | ----- | | SDI C, SDI NC, SDI RD |
| Y | VERIFY STEEL DECK INSTALLATION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS | | | SDI C, SDI NC, SDI RD |

## REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. | | | |
| Y | a. END CONNECTIONS - WELDED OR BOLTED. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| | b. BRIDGING - HORIZONTAL OR DIAGONAL. | ----- | | |
| Y | 1. STANDARD BRIDGING. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| Y | 2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1. | | X | |

## SPECIAL INSPECTION OF SEISMIC FORCE RESISTING SYSTEMS (REQUIRED WHEN SDC = C, D, E OR F) AND DESIGNATED SEISMIC SYSTEMS (REQUIRED WHEN SDC=D,E OR F)

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. STRUCTURAL STEEL: | | | |
| Y | a. STRUCTURAL WELDING REQUIRED BY AISC 341 | X | ----- | 1705.2.1 |
| | 2. STRUCTURAL WOOD: | | | |
| Y | a. FIELD GLUING OPERATIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM. | X | ----- | 1705.11.1 |
| Y | b. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS. (ENGINEERS NOTE: SEE SECTIONS 1707.3 & 1705.3 EXCEPTION.) | ----- | X | 1705.11.1 |
| | 3. COLD - FORMED STEEL FRAMING: | | | |
| Y | a. WELDING OF ELEMENTS IN SEISMIC-FORCE RESISTANCE | ----- | X | 1705.12.1.2 |
| Y | b. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM. | ----- | X | 1705.12.1.2 |
| Y | 4. ANCHORAGE. | ----- | X | 1705.12.7 |

## SPECIAL INSPECTION AND VERIFICATION OF COLD FORMED METAL FRAMING

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| Y | 1. SEATING OF STUDS IN TRACK. | ----- | X | ----- |
| Y | 2. WELDING OF ELEMENTS. | ----- | X | 1705.12.3 |
| Y | 3. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS. | ----- | X | 1705.12.3 |
| Y | 4. STEEL STUD BRIDGING SPACING AND END ATTACHMENT. | ----- | X | 1705.12.3 |
| Y | 5. WELDED CONNECTIONS ARE TOUCHED UP WITH PAINT. | ----- | X | 1705.12.3 |
| Y | 6. VERIFY STRUCTURAL STUD SIZE, DEPTH, AND GAGE. | ----- | X | 1705.12.3 |

## SPECIAL INSPECTION AND VERIFICATION OF MASONRY - LEVEL #1

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|---|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | ACI 530/ASCE 5/TMS 402 | ACI 530.1/ASCE 6/TMS 602 |
| Y | 1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED | ----- | X | ----- | ----- | ART. 1.5 |
| Y | 2. VERIFICATION OF F'm AND F'AAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE | ----- | X | ----- | ----- | ART. 1.4B |
| Y | 3. VERIFICATION OF SLUMP FLOW AND VSI AS DELOVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT | X | ----- | ----- | ----- | ART. 1.5B.1.b3 |
| Y | 4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | | | |
| Y | a. PROPORTIONS OF SITE - PREPARED MORTAR. | ----- | X | ----- | ----- | ART. 2.6A |
| Y | b. CONSTRUCTION OF MORTAR JOINTS. | ----- | X | ----- | ----- | ART. 3.3B |
| Y | c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | ----- | ART. 3.4, 3.6A |
| Y | d. PRESTRESSING TECHNIQUE | ----- | X | ----- | ----- | ART. 3.6B |
| Y | e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | ----- | ART. 2.4B, 2.4H |
| | 5. THE INSPECTION PROGRAM SHALL VERIFY: | | | | | |
| Y | a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | ----- | X | ----- | ----- | ART. 3.F |
| Y | b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION. | ----- | X | ----- | SEC. 1.2.2(e), 1.16.1 | ----- |
| Y | c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES | ----- | X | ----- | SEC. 1.15 | ART. 2.4, 3.4 |
| Y | d. WELDING OF REINFORCING BARS. | X | ----- | ----- | SEC. 2.1.9.7.2, 3.3.3.4(b) | ----- |
| Y | e. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F) | ----- | X | SECTION 2104.3, 2104.4 | ----- | ART. 1.8C, 1.8D |
| Y | f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCES. | X | ----- | ----- | ----- | ART. 3.6B |
| | 6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | | | | | |
| Y | a. GROUT SPACE IS CLEAN. | ----- | X | ----- | ----- | ART. 3.2D |
| Y | b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. | ----- | X | ----- | SEC. 1.13 | ART. 3.4 |
| Y | c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. | ----- | X | ----- | ----- | ART. 2.6B |
| Y | d. CONSTRUCTION OF MORTAR JOINTS. | ----- | X | ----- | ----- | ART. 3.3B |
| Y | 7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. | X | ----- | ----- | ----- | ART. 3.5 |
| Y | a. GROUTING OF PRESTRESSING BONDED TENDONS | X | ----- | ----- | ----- | ART. 3.6C |
| Y | 8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED. | ----- | X | SECTION 2105.2.2, 2105.3 | ----- | ART. 1.4 |

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
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| DATE: | |
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

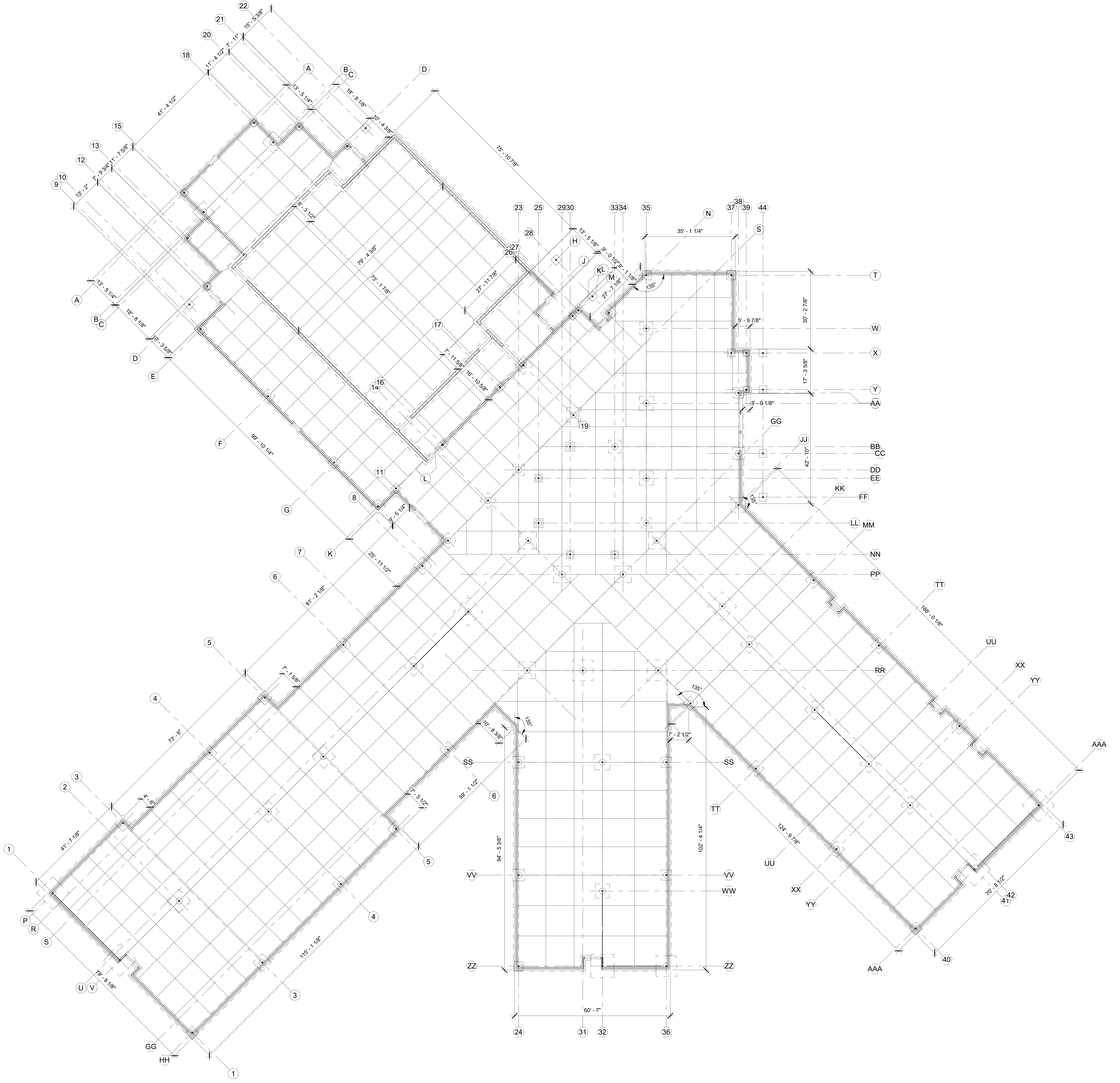
SHEET TITLE

STRUCTURAL SPECIAL INSPECTIONS

S-002

School Information

Dzilth-Na-O-Dith-Hle - New School Building

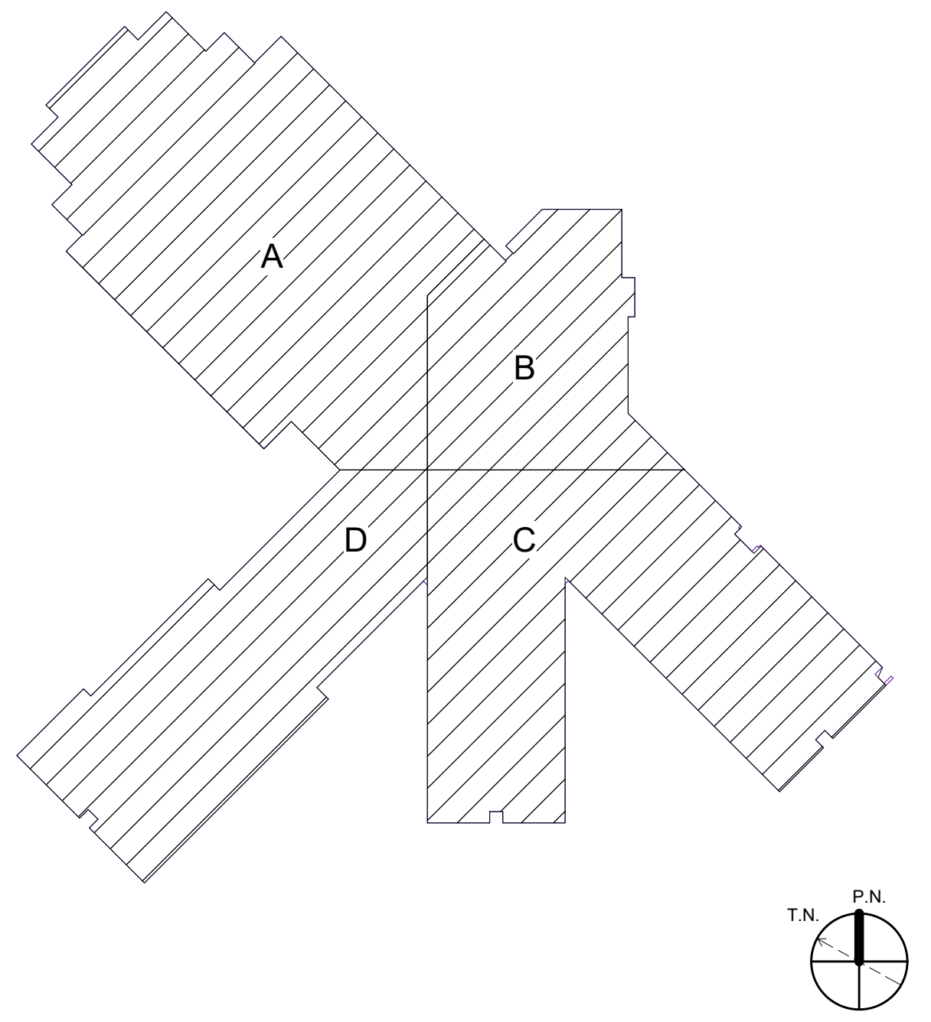


A1 OVERALL FOUNDATION PLAN
1/16" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEM WALL UNLESS NOTED OTHERWISE.

B. REFER TO SHEETS S-101-A, S-101B, S-101C and S-101D FOR ENLARGED FOUNDATION PLANS.



KEY PLAN

N.T.S.

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
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| ISSUE: | |
| DATE: | |
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

SHEET TITLE

OVERALL FOUNDATION PLAN

S-101

8/21/2020 11:28:58 AM

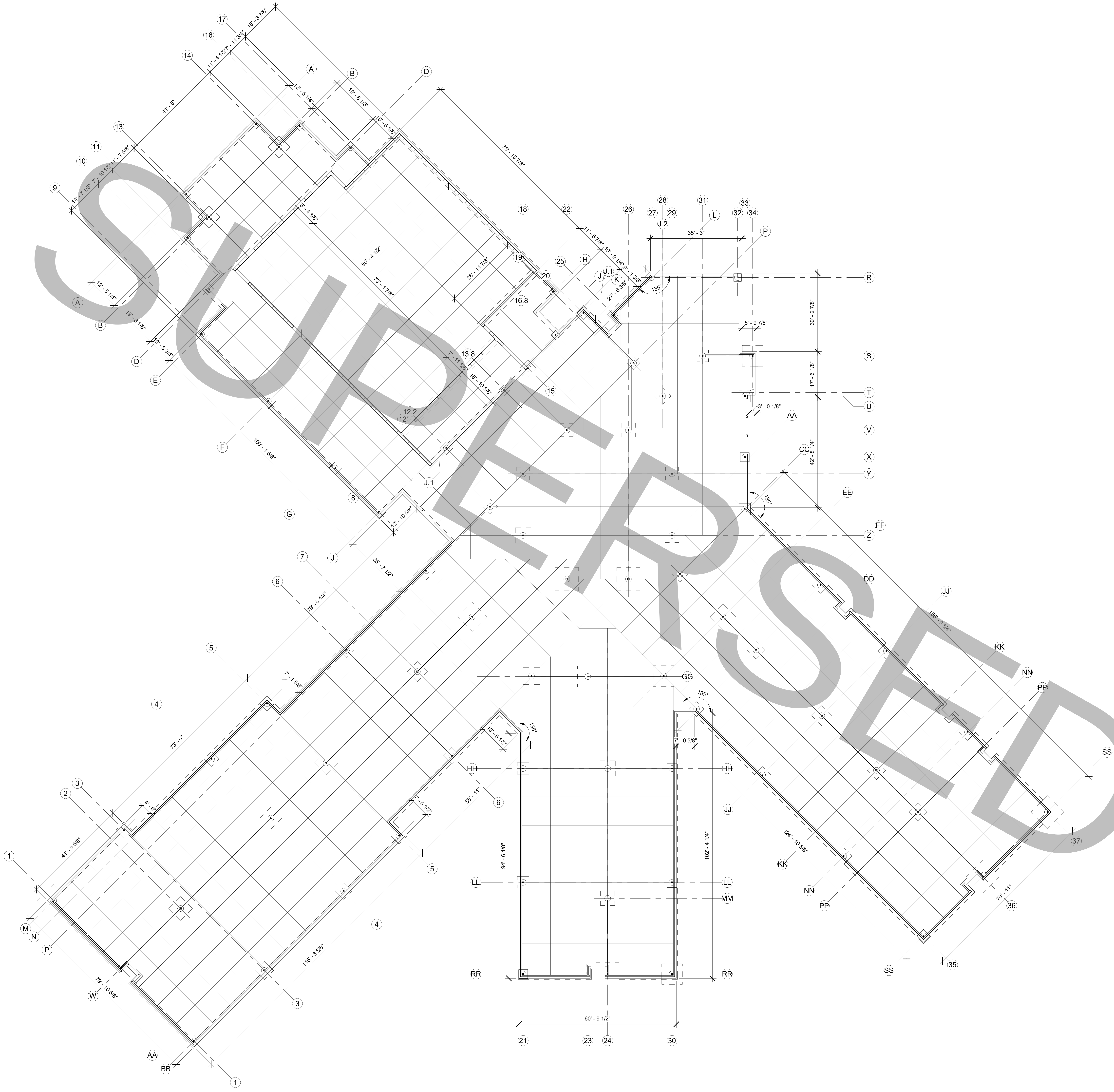
School Information

Dzilth-Na-O-Dith-Hle - New School

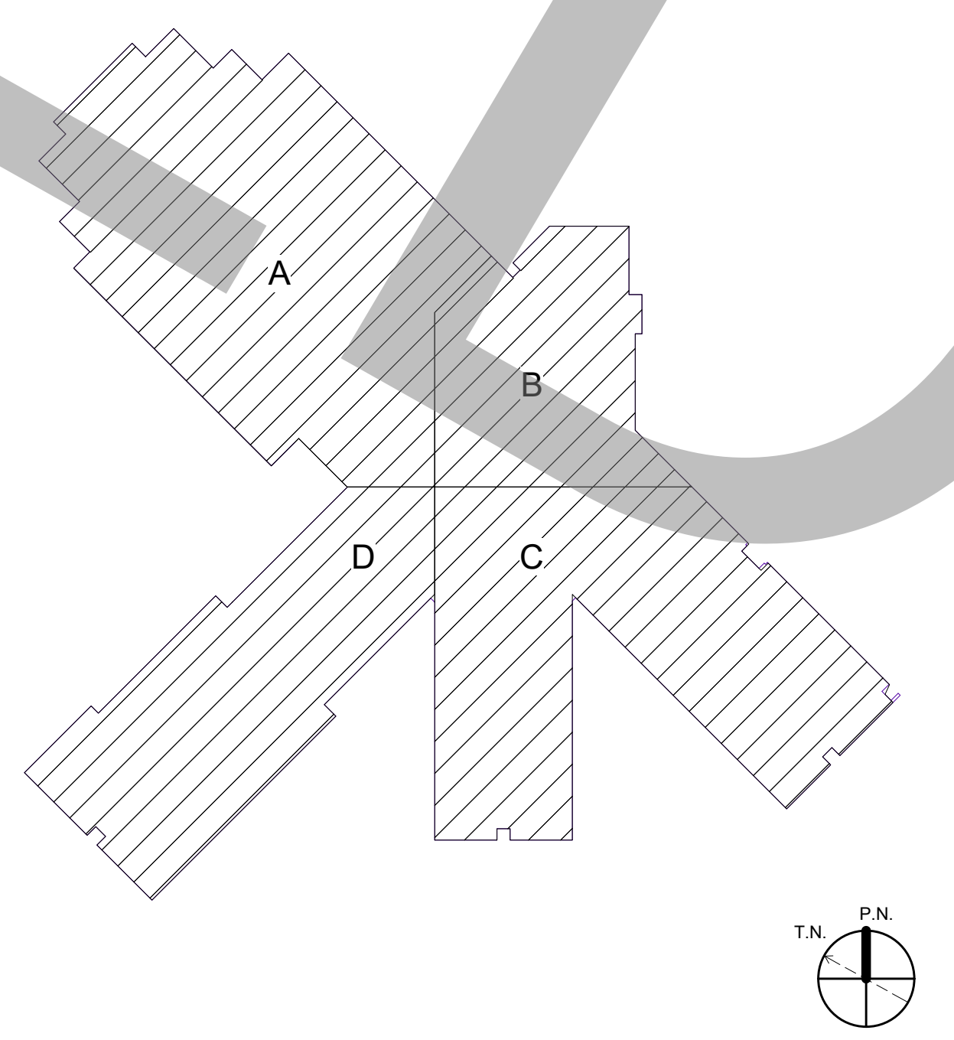
## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEM WALL UNLESS NOTED OTHERWISE.

B. REFER TO SHEETS S-101-A, S-101B, S-101C and S-101D FOR ENLARGED FOUNDATION PLANS.



A1 OVERALL FOUNDATION PLAN
1/16" = 1'-0"



KEY PLAN

N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
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35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
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| CHECKED BY: | MJW |

SHEET TITLE

OVERALL FOUNDATION PLAN
(SCHOOL)

S-101

School Information

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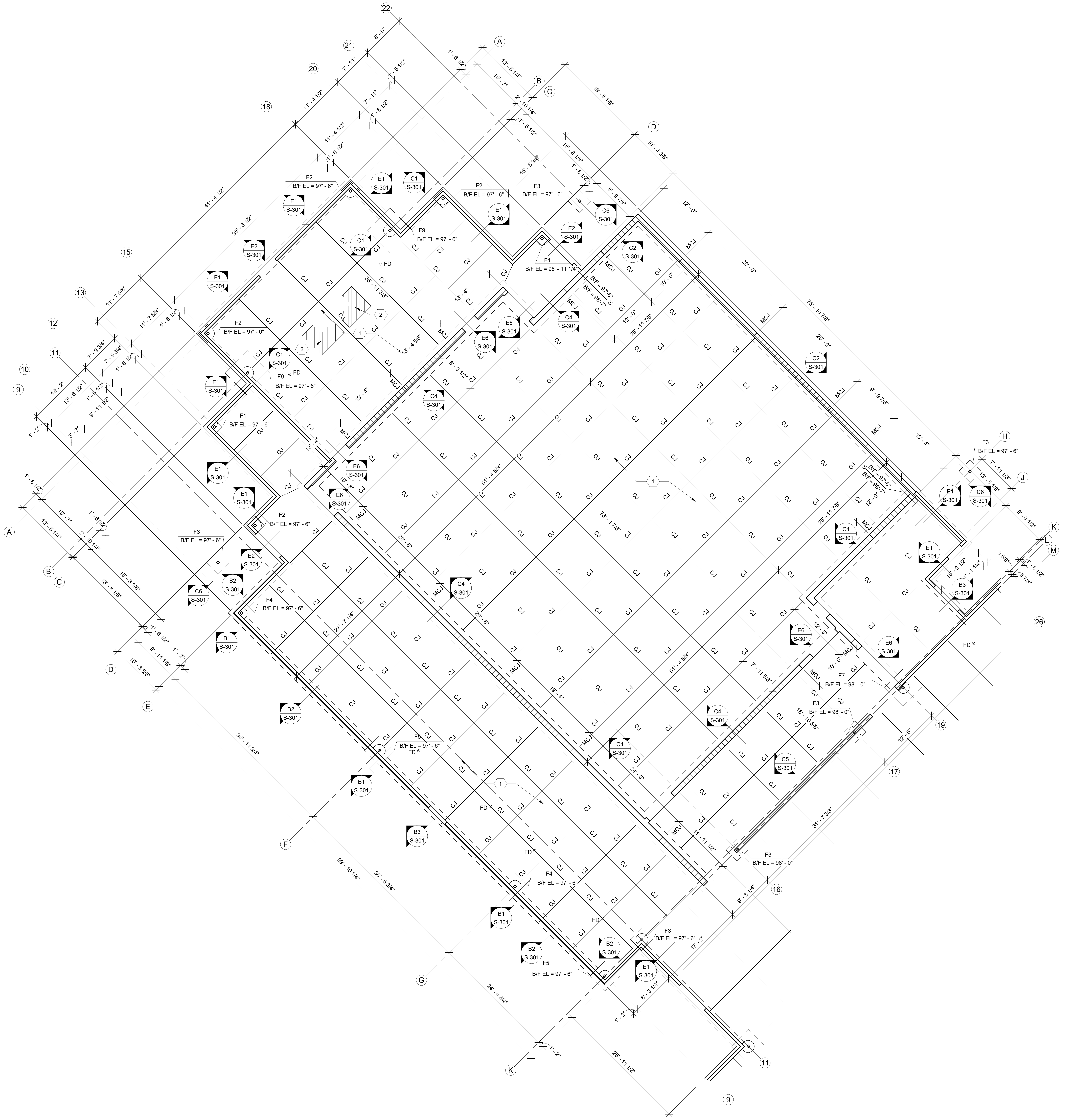


A1 ENLARGED FOUNDATION PLAN 'A'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

D. S $\frac{\text{B/F = \#\#'-\#"}}{\text{B/F = \#\#'-\#"}}$ INDICATES STEP IN CONTINUOUS FOOTING PER D5/S-501.

E. FD ⊗ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

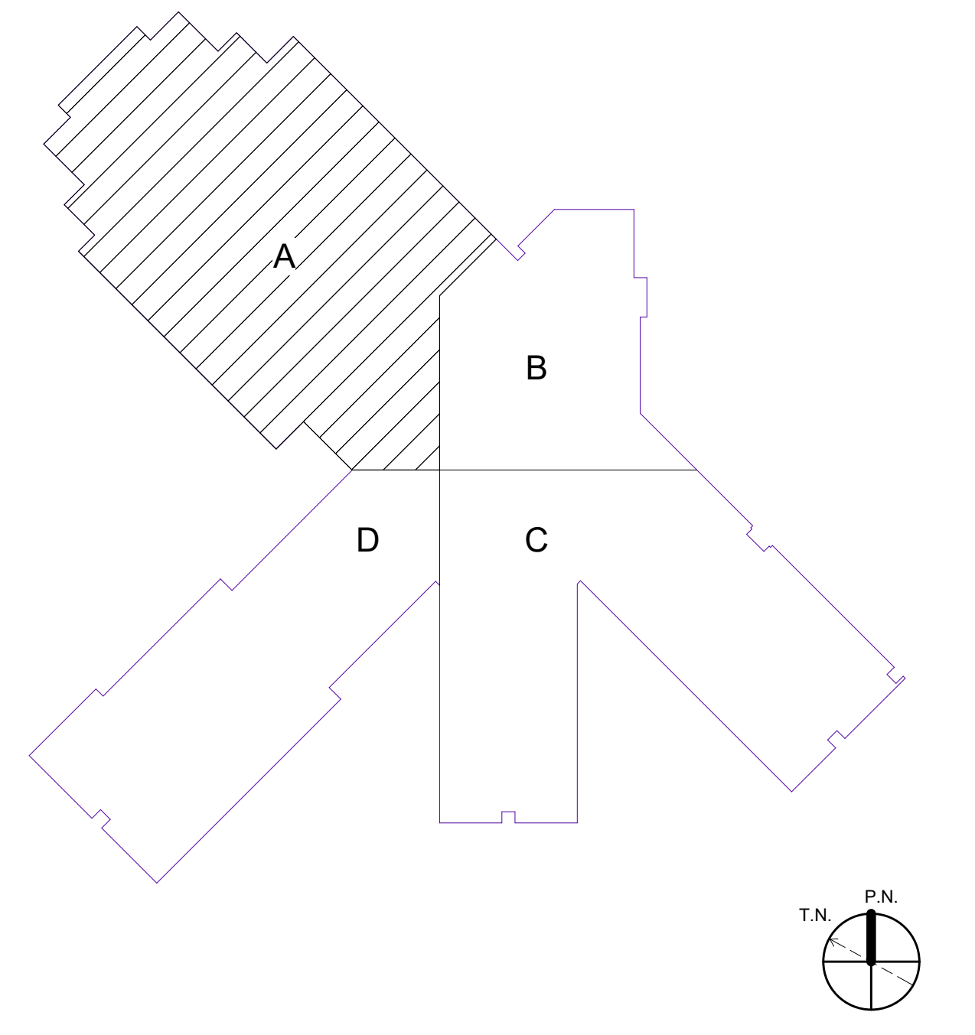
## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2", SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB PER D6/S-501.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
| F2 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F6 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #4 EACH WAY |
| F7 | 5' - 0" | 5' - 0" | 1' - 0" | (7) #4 EACH WAY |
| F8 | 5' - 6" | 5' - 6" | 1' - 0" | (8) #4 EACH WAY |
| F9 | 6' - 0" | 6' - 0" | 1' - 0" | (8) #4 EACH WAY |
| F10 | 6' - 6" | 6' - 6" | 1' - 0" | (6) #5 EACH WAY |
| F11 | 7' - 0" | 7' - 0" | 1' - 1" | (7) #5 EACH WAY |
| F12 | 8' - 0" | 8' - 0" | 1' - 3" | (9) #5 EACH WAY |
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY TOP & BOTTOM |



KEY PLAN

N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

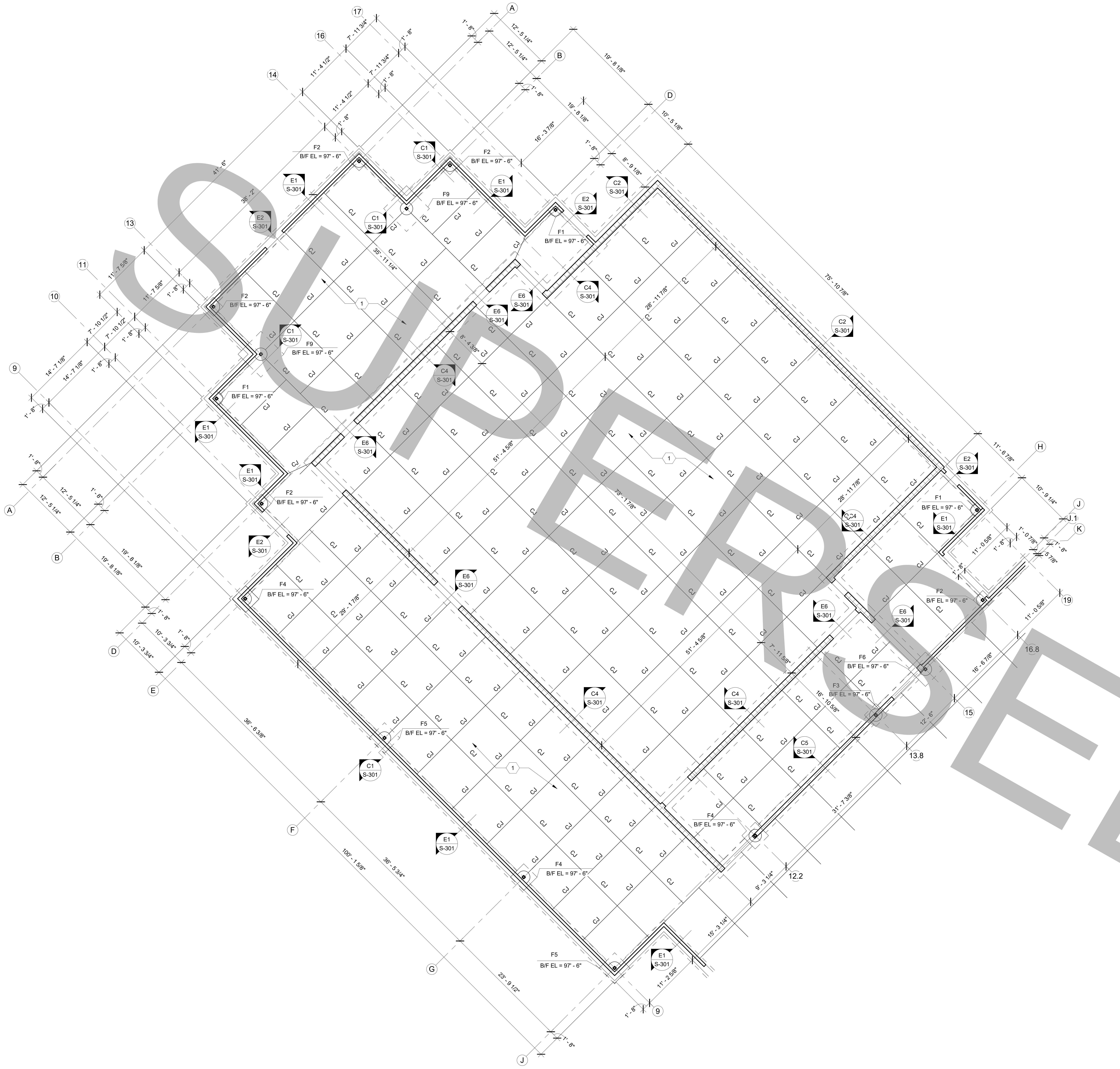
SHEET TITLE

ENLARGED FOUNDATION PLAN 'A'

S-101A

School Information

8/21/2020 11:29:00 AM



A1 ENLARGED FOUNDATION PLAN 'A'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E3/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

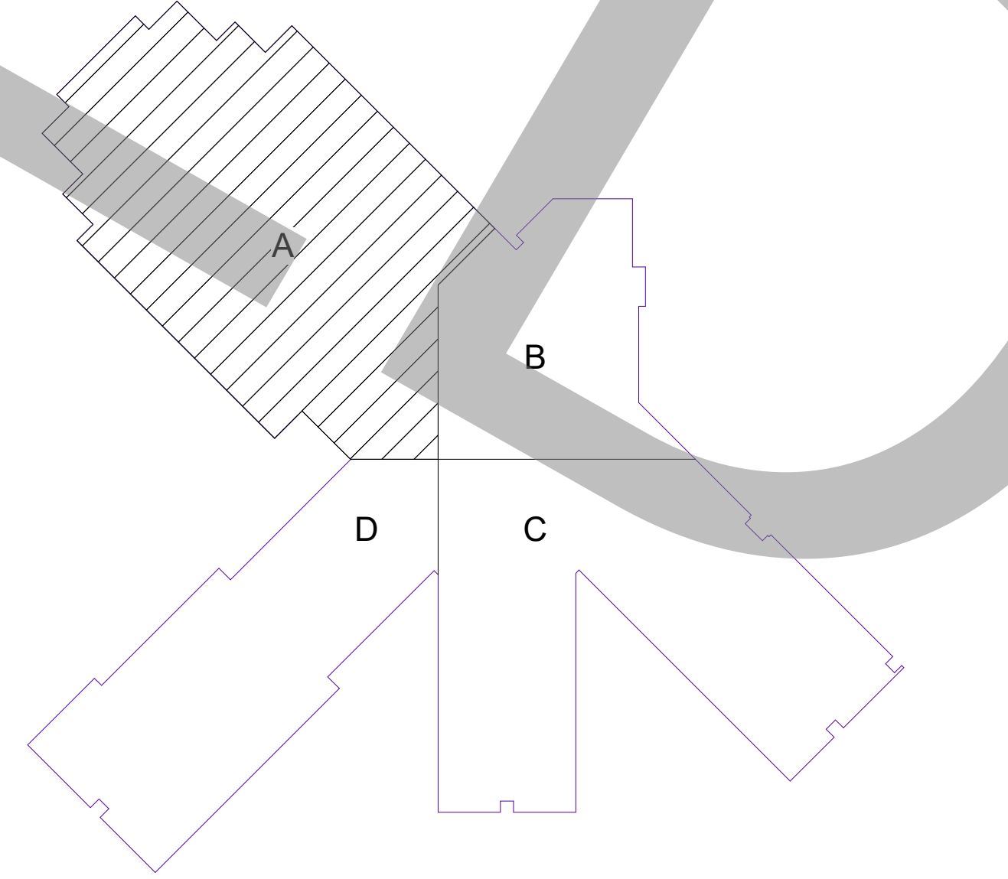
## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2" TOTAL, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
| F2 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F6 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #4 EACH WAY |
| F7 | 5' - 0" | 5' - 0" | 1' - 0" | (7) #4 EACH WAY |
| F8 | 5' - 6" | 5' - 6" | 1' - 0" | (8) #4 EACH WAY |
| F9 | 6' - 0" | 6' - 0" | 1' - 0" | (8) #4 EACH WAY |
| F10 | 6' - 6" | 6' - 6" | 1' - 0" | (6) #5 EACH WAY |
| F11 | 7' - 0" | 7' - 0" | 1' - 1" | (7) #5 EACH WAY |
| F12 | 8' - 0" | 8' - 0" | 1' - 3" | (9) #5 EACH WAY |
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY<br>TOP & BOTTOM |



KEY PLAN

N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

Dzilth-Na-O-Dith-Hle Community School
"FOR EACH CHILD SUCCESS"

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | |
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

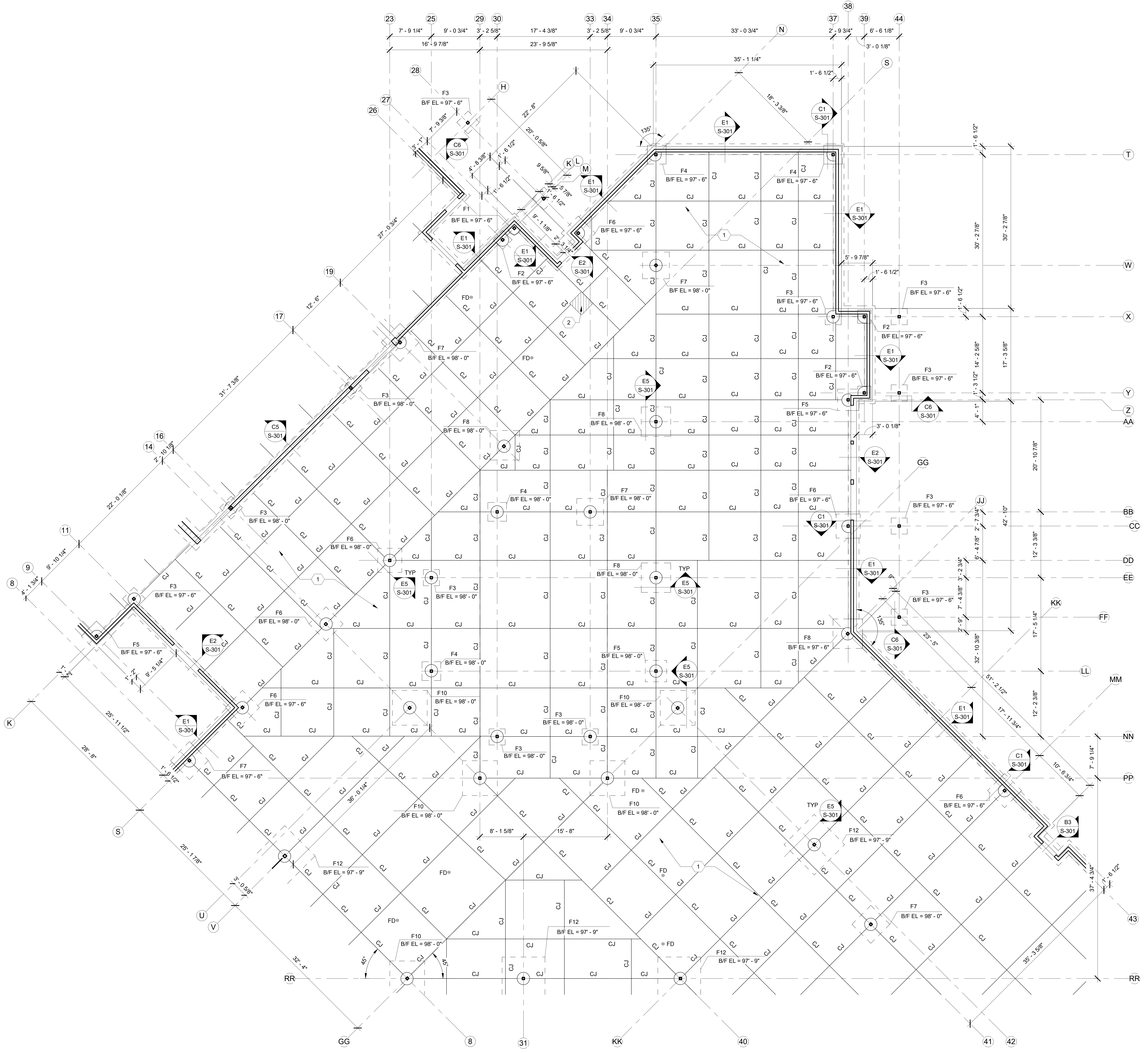
SHEET TITLE

ENLARGED FOUNDATION PLAN
'A'
(SCHOOL)

S-101A

Dzilth-Na-O-Dith-Hle - New School Building

8/21/2020 11:29:01 AM



A1 ENLARGED FOUNDATION PLAN 'B'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

D. FD ⊗ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" U.N.O. - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2", SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB PER D6/S-501.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
| F2 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
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| F7 | 5' - 0" | 5' - 0" | 1' - 0" | (7) #4 EACH WAY |
| F8 | 5' - 6" | 5' - 6" | 1' - 0" | (8) #4 EACH WAY |
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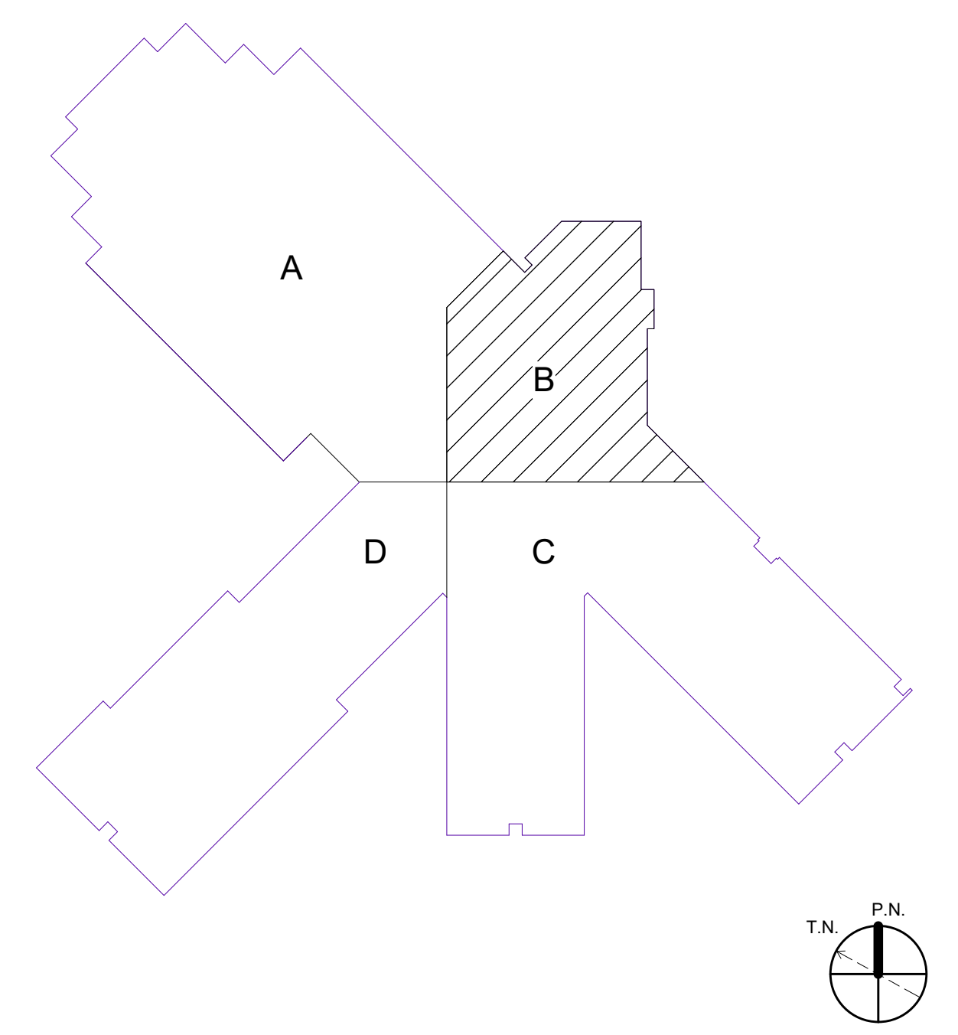
| F10 | 6' - 6" | 6' - 6" | 1' - 0" | (6) #5 EACH WAY |
| F11 | 7' - 0" | 7' - 0" | 1' - 1" | (7) #5 EACH WAY |
| F12 | 8' - 0" | 8' - 0" | 1' - 3" | (9) #5 EACH WAY |
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY<br>TOP & BOTTOM |



KEY PLAN

N.T.S.

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
| | | |

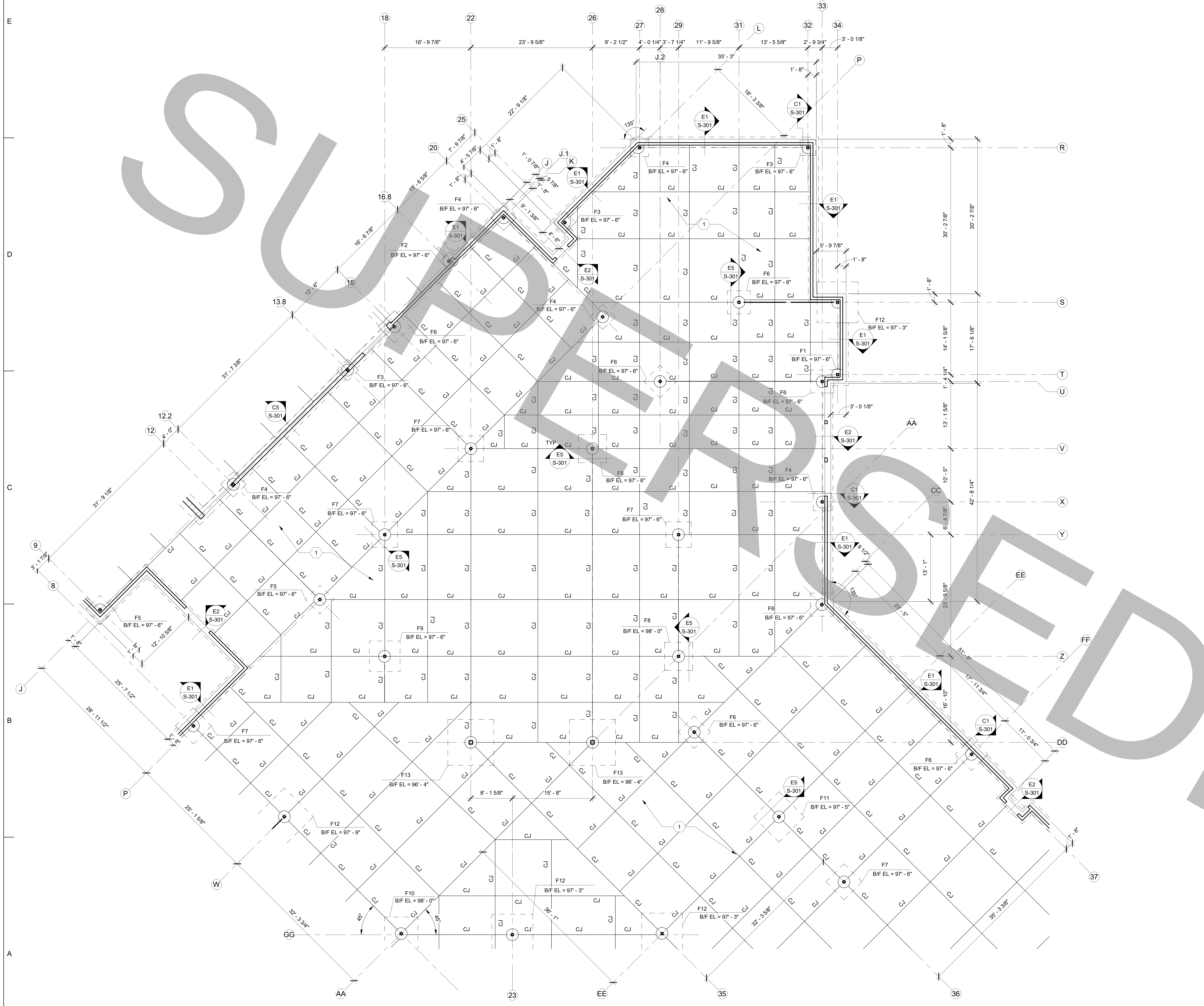
ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

ENLARGED FOUNDATION PLAN 'B'

S-101B

School Information



A1 ENLARGED FOUNDATION PLAN 'B'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E3/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" U.N.O. - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2" TOTAL, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
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| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
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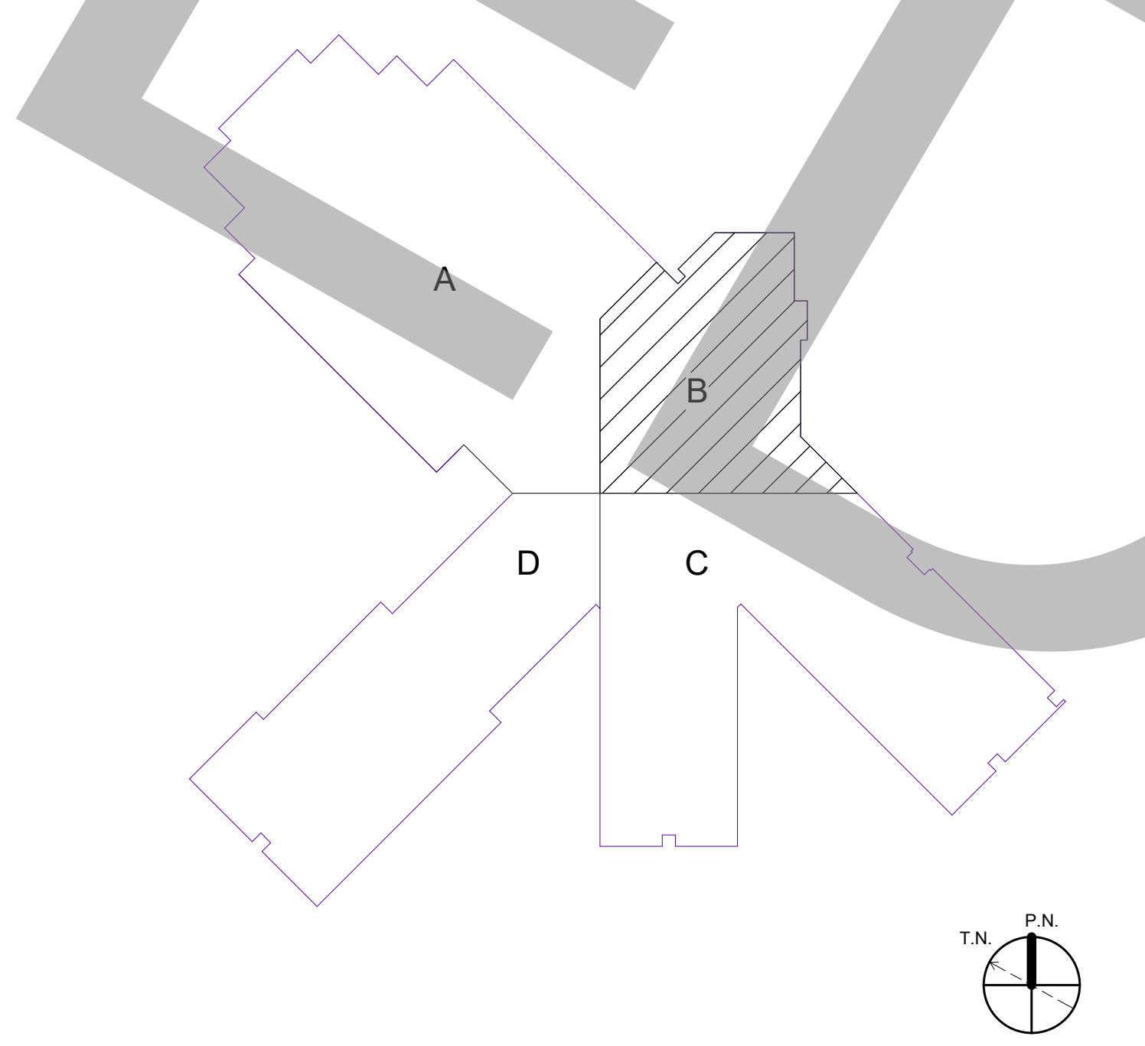

KEY PLAN
N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

ENLARGED FOUNDATION PLAN 'B'
(SCHOOL)

S-101B

## KEYED NOTES

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2", SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN 5" TOTAL SLAB THICKNESS PER D6/S-501.

## GENERAL NOTES

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B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

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D. FD ⊗ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
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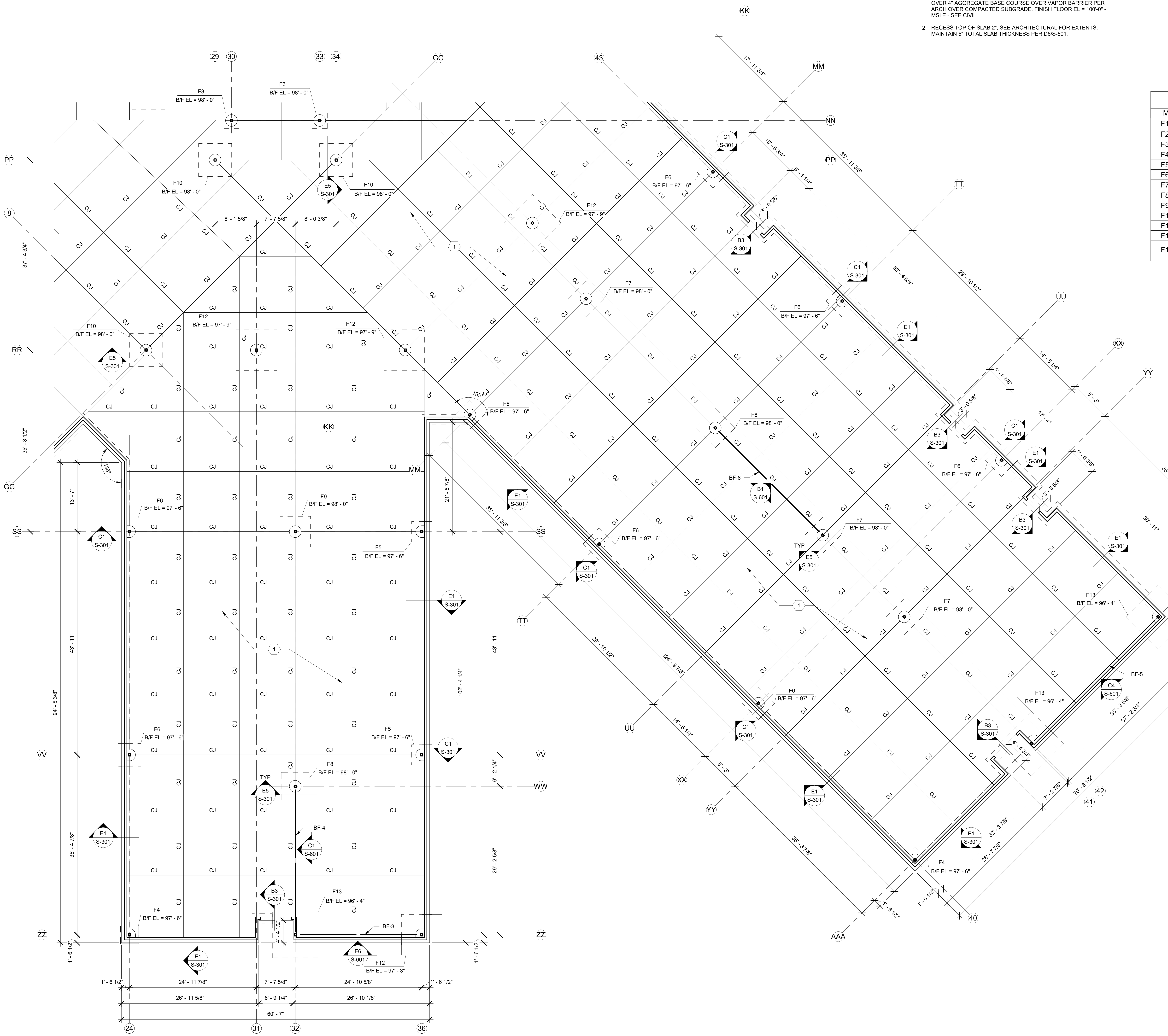
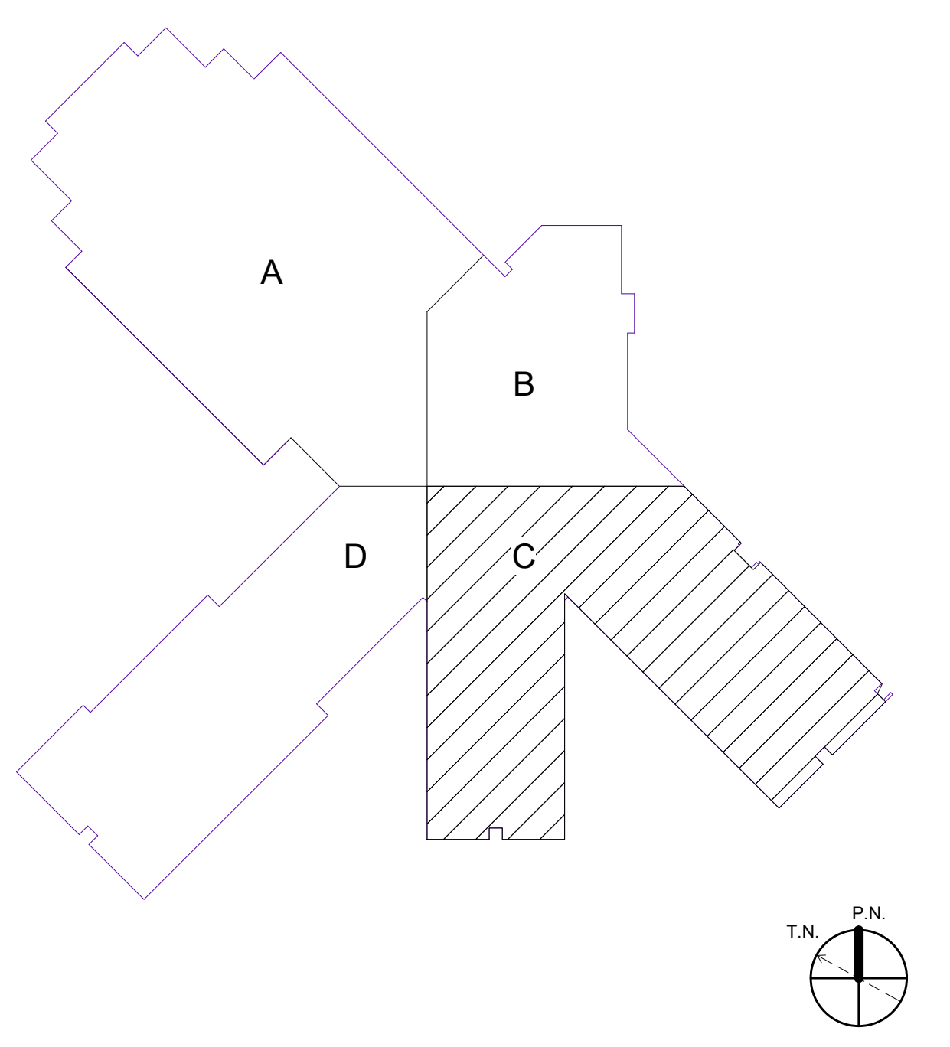
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY<br>TOP & BOTTOM |



A1 ENLARGED FOUNDATION PLAN 'C'
1/8" = 1'-0"



KEY PLAN

N.T.S.

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
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4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
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Albuquerque, NM 87110
p_505.243.9287

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Albuquerque, NM 87110
p_505.212.9126

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Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

ENLARGED FOUNDATION PLAN 'C'

S-101C

School Information

8/21/2020 11:29:04 AM

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E3/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
| F2 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F6 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #4 EACH WAY |
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| F10 | 6' - 6" | 6' - 6" | 1' - 0" | (6) #5 EACH WAY |
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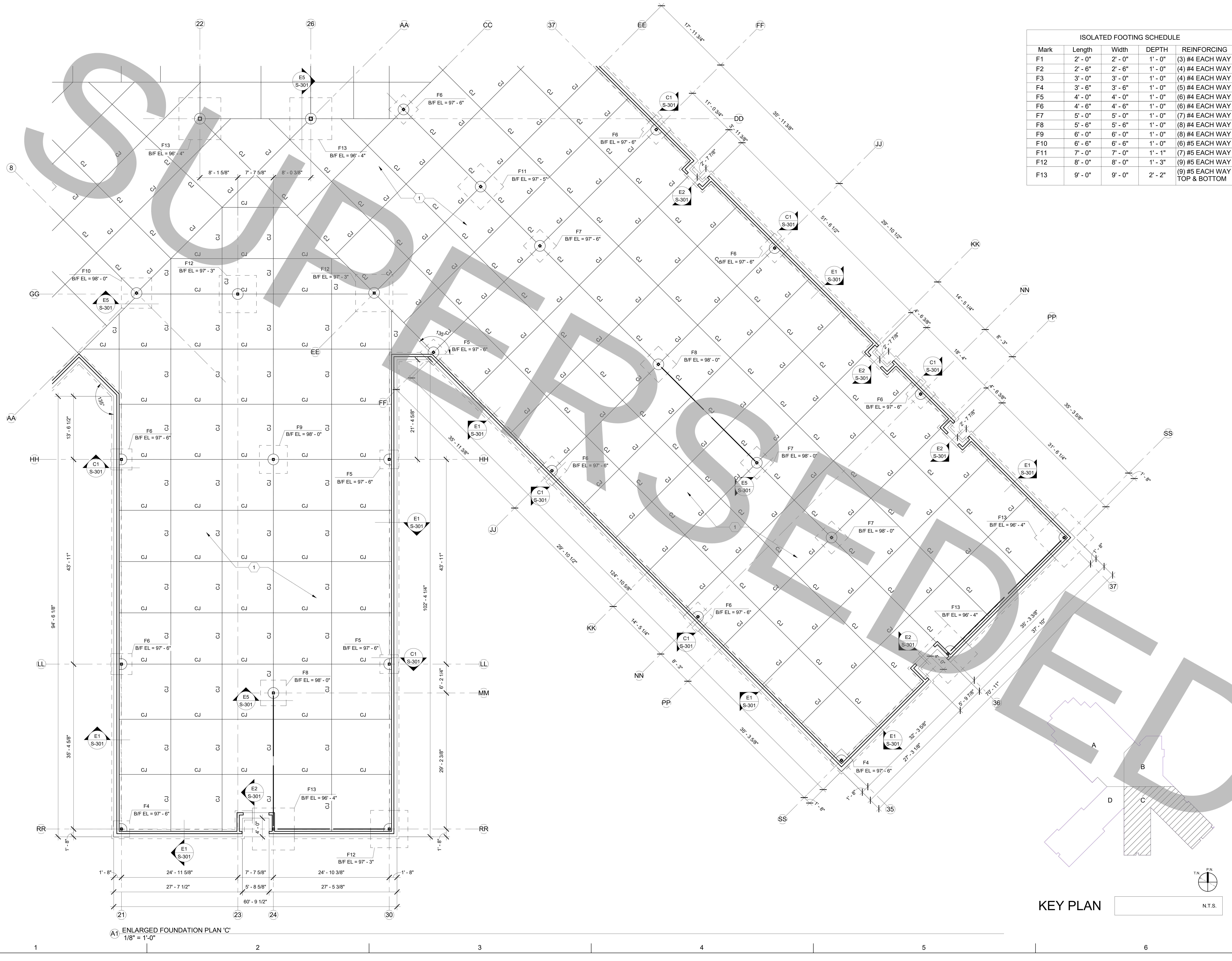

A1 ENLARGED FOUNDATION PLAN 'C'
1/8" = 1'-0"

KEY PLAN N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

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**Dzilth-Na-O-Dith-Hle Community School**

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JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
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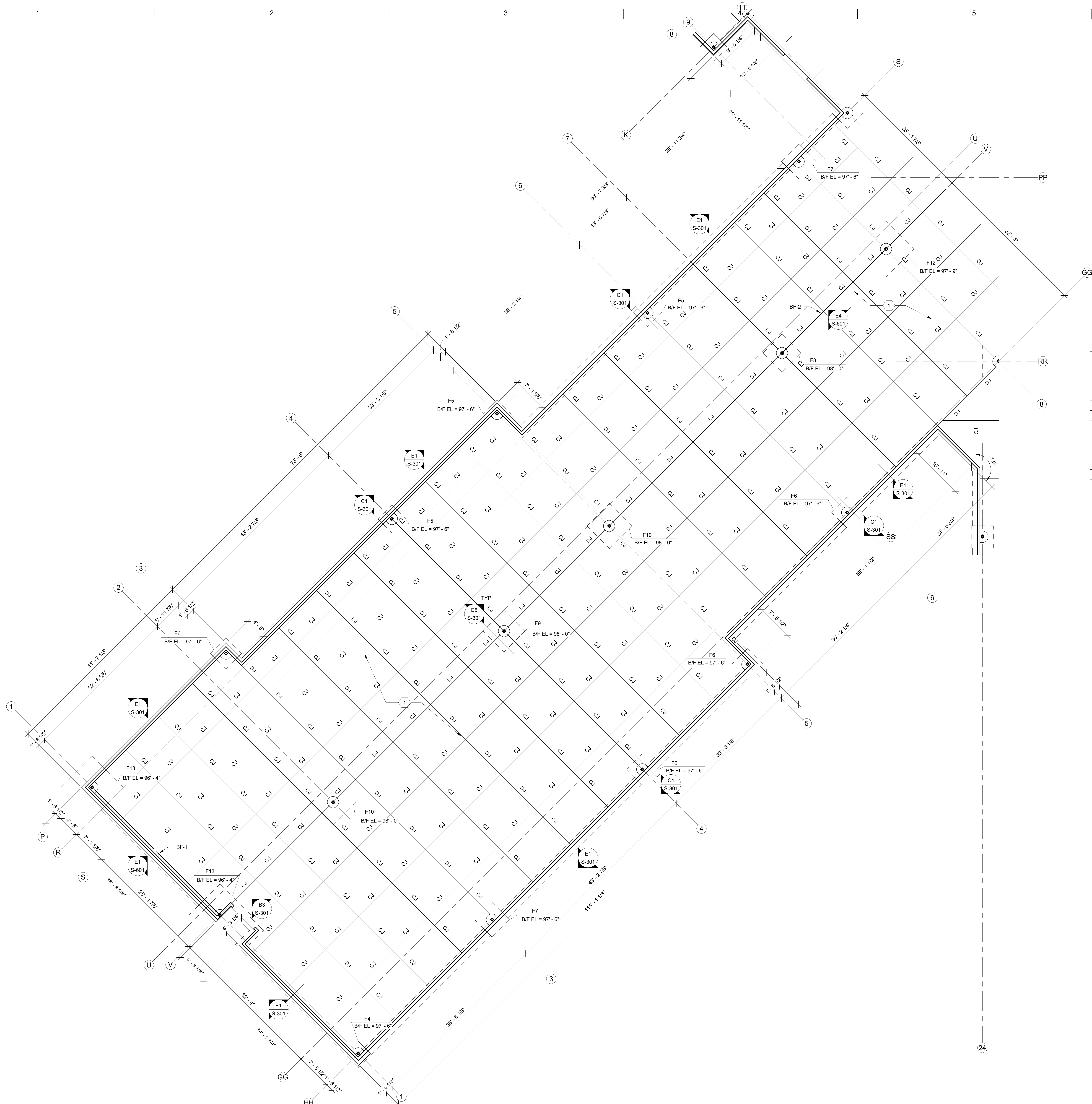
CHECKED BY: MJW

SHEET TITLE

ENLARGED FOUNDATION PLAN 'C'
(SCHOOL)

S-101C

Dzilth-Na-O-Dith-Hle - New School Building



A1 ENLARGED FOUNDATION PLAN 'D'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

D. FD ⊗ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2", SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN 5" TOTAL SLAB THICKNESS PER D6/S-501.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
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| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F6 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #4 EACH WAY |
| F7 | 5' - 0" | 5' - 0" | 1' - 0" | (7) #4 EACH WAY |
| F8 | 5' - 6" | 5' - 6" | 1' - 0" | (8) #4 EACH WAY |
| F9 | 6' - 0" | 6' - 0" | 1' - 0" | (8) #4 EACH WAY |
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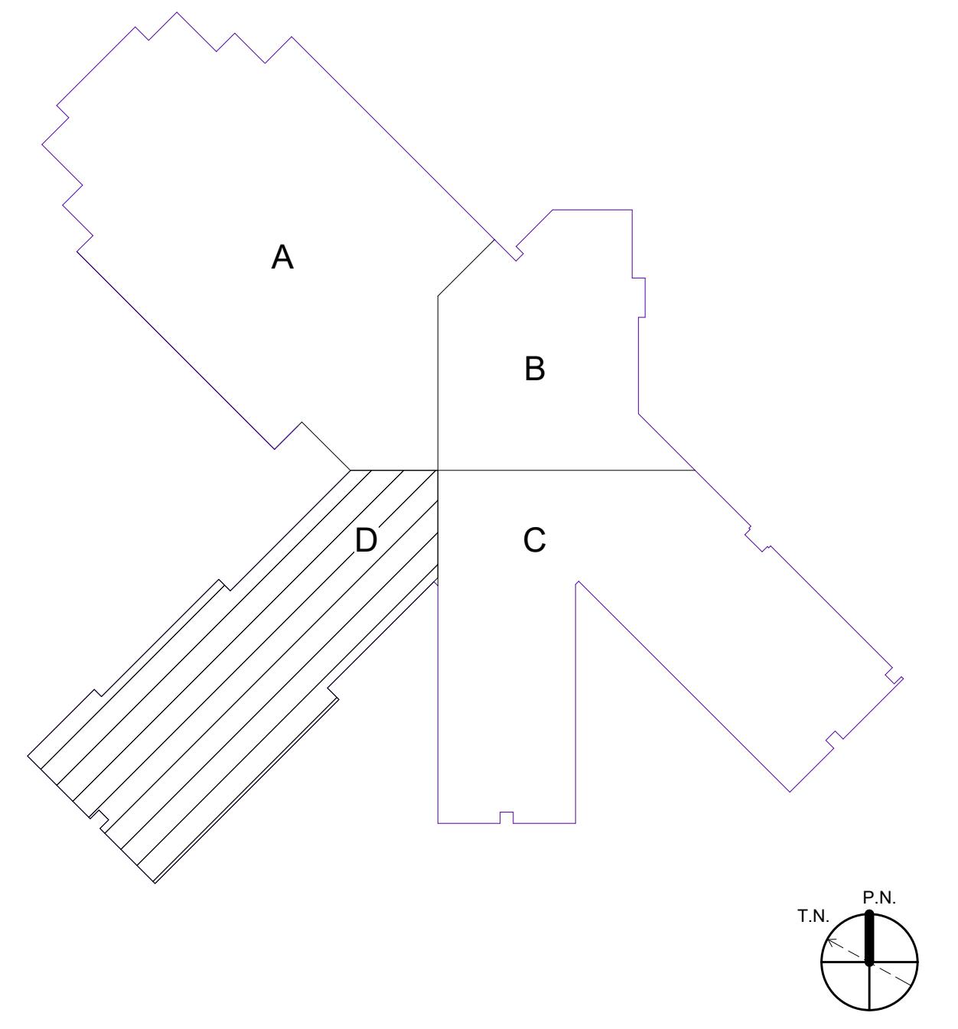
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY TOP & BOTTOM |



KEY PLAN
N.T.S.

**fbt | architects**
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

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**Bohannon Huston**
7500 Jefferson St NE,
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ENGINEER

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AUGUST 21, 2020

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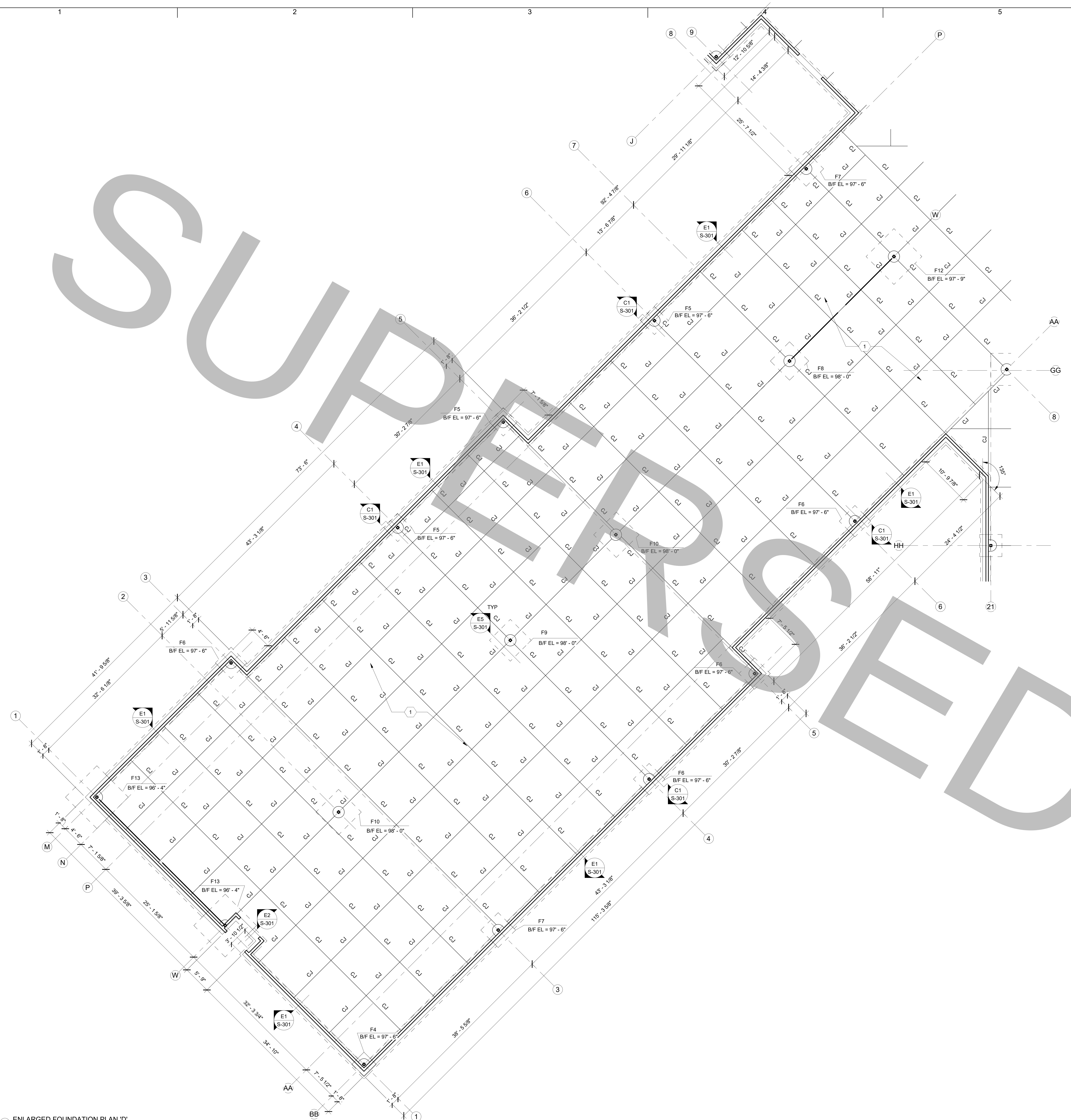
SHEET TITLE

ENLARGED FOUNDATION PLAN 'D'

# S-101D

School Information

8/21/2020 11:29:07 AM



A1 ENLARGED FOUNDATION PLAN 'D'
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E3/S-301.

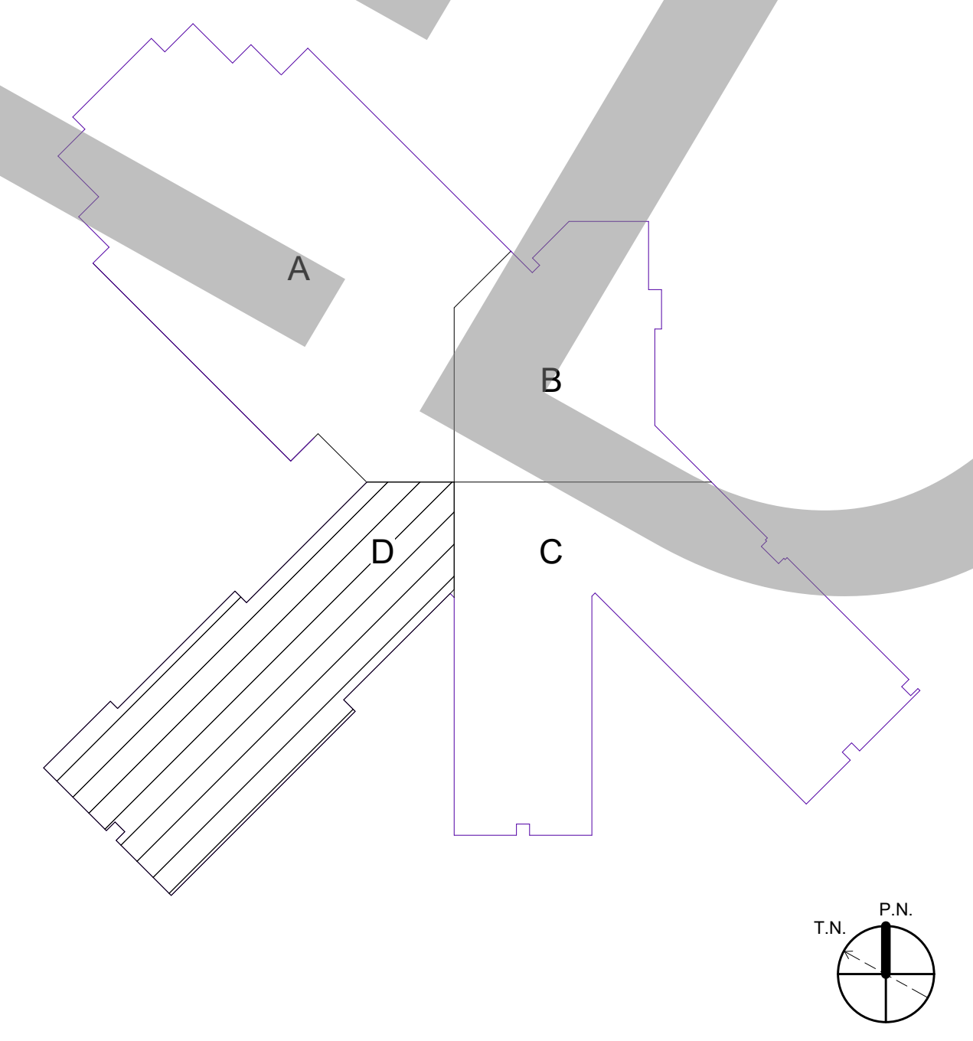
C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 AT 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 0" | 2' - 0" | 1' - 0" | (3) #4 EACH WAY |
| F2 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F4 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F5 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F6 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #4 EACH WAY |
| F7 | 5' - 0" | 5' - 0" | 1' - 0" | (7) #4 EACH WAY |
| F8 | 5' - 6" | 5' - 6" | 1' - 0" | (8) #4 EACH WAY |
| F9 | 6' - 0" | 6' - 0" | 1' - 0" | (8) #4 EACH WAY |
| F10 | 6' - 6" | 6' - 6" | 1' - 0" | (6) #5 EACH WAY |
| F11 | 7' - 0" | 7' - 0" | 1' - 1" | (7) #5 EACH WAY |
| F12 | 8' - 0" | 8' - 0" | 1' - 3" | (9) #5 EACH WAY |
| F13 | 9' - 0" | 9' - 0" | 2' - 2" | (9) #5 EACH WAY<br>TOP & BOTTOM |



KEY PLAN

N.T.S.

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

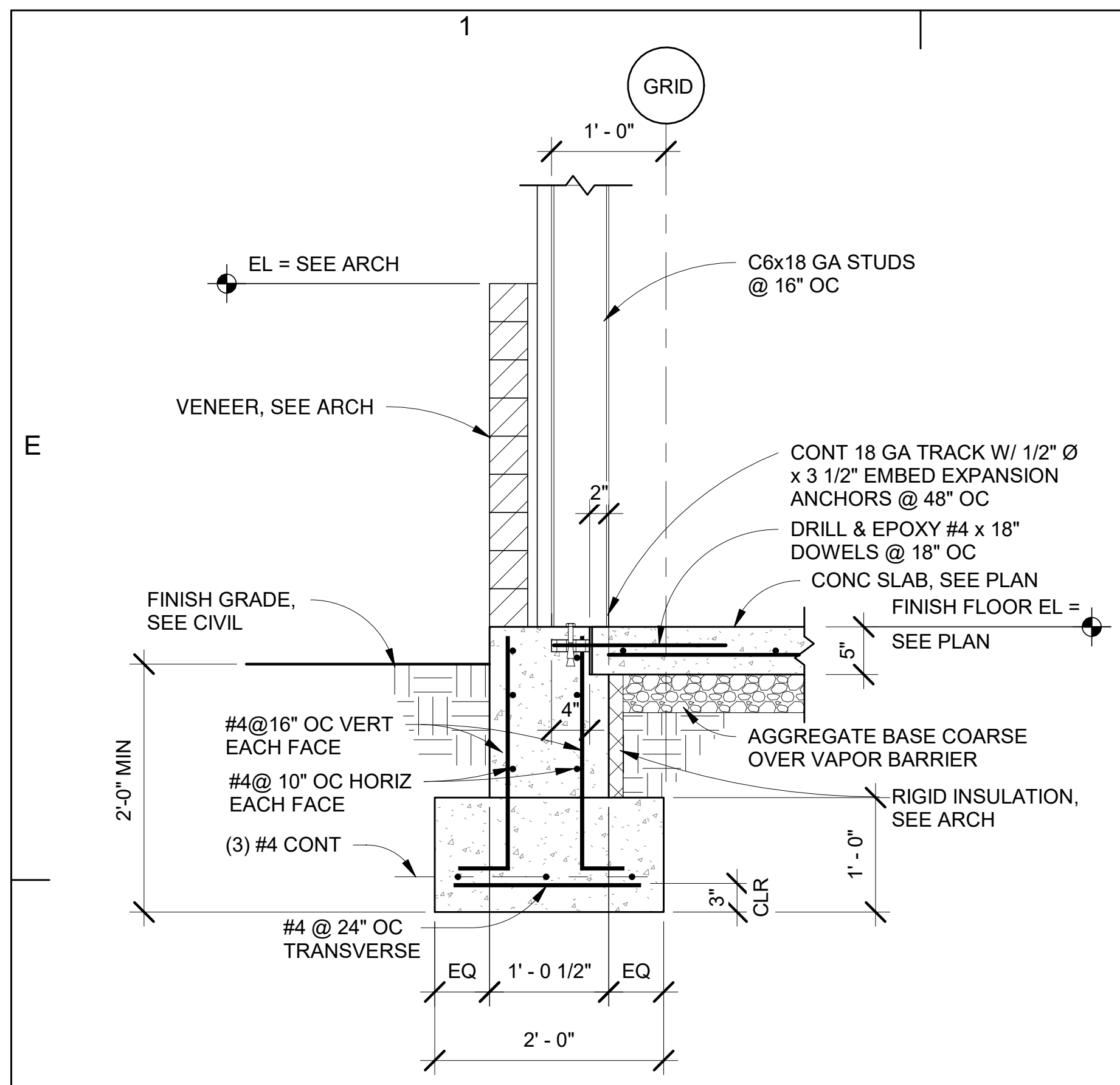
ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

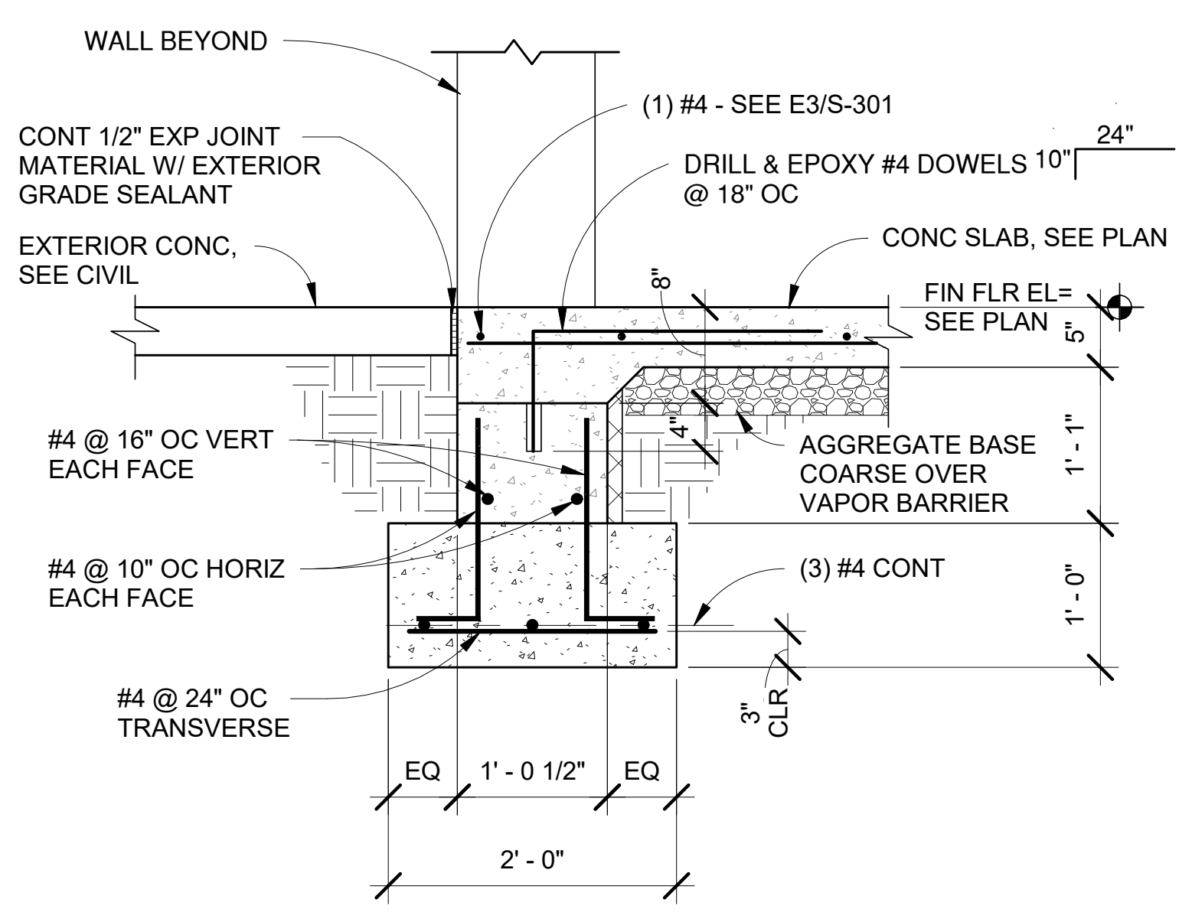
SHEET TITLE

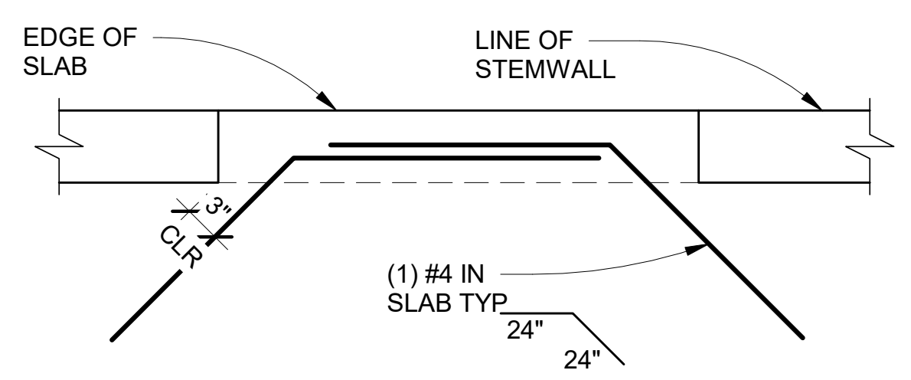
ENLARGED FOUNDATION PLAN
'D'
(SCHOOL)

S-101D

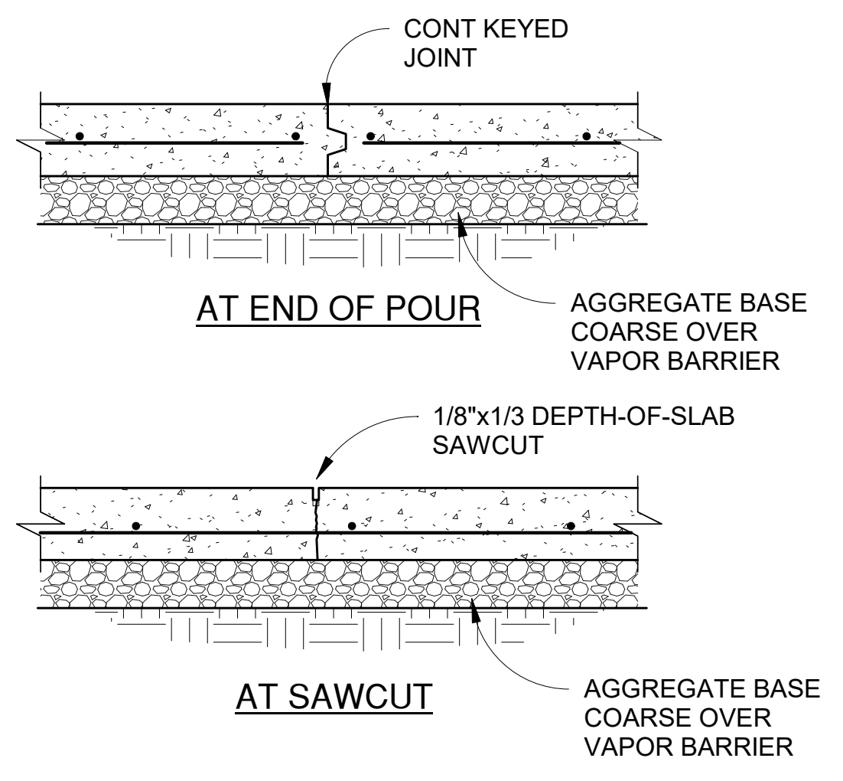
Dzilth-Na-O-Dith-Hle - New School Building

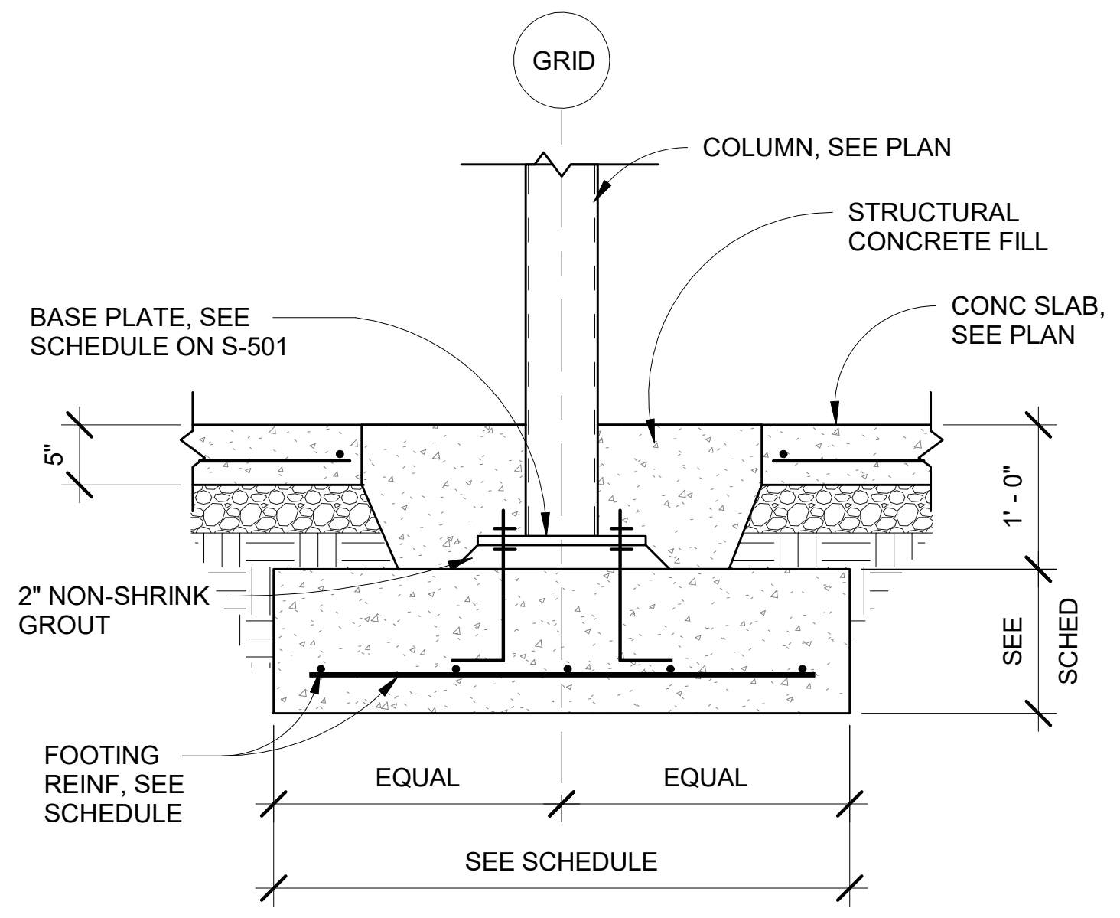

GRID
1' - 0"
EL = SEE ARCH
C6x18 GA STUDS @ 16" OC
VENEER, SEE ARCH
CONT 18 GA TRACK W/ 1/2" Ø x 3 1/2" EMBED EXPANSION ANCHORS @ 48" OC
DRILL & EPOXY #4 x 18" DOWELS @ 18" OC
CONC SLAB, SEE PLAN
FINISH FLOOR EL = SEE PLAN
FINISH GRADE, SEE CIVIL
#4@16" OC VERT EACH FACE
#4@ 10" OC HORIZ EACH FACE
(3) #4 CONT
AGGREGATE BASE COARSE OVER VAPOR BARRIER
RIGID INSULATION, SEE ARCH
#4 @ 24" OC TRANSVERSE
2'-0" MIN
1' - 0"
3" CLR
EQ
1' - 0 1/2"
EQ
2' - 0"
E1 SECTION
3/4" = 1'-0"


WALL BEYOND
CONT 1/2" EXP JOINT MATERIAL W/ EXTERIOR GRADE SEALANT
(1) #4 - SEE E3/S-301
DRILL & EPOXY #4 DOWELS @ 18" OC
24"
10"
EXTERIOR CONC, SEE CIVIL
CONC SLAB, SEE PLAN
FIN FLR EL= SEE PLAN
#4 @ 16" OC VERT EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4 @ 10" OC HORIZ EACH FACE
(3) #4 CONT
#4 @ 24" OC TRANSVERSE
1' - 1"
1' - 0"
3" CLR
EQ
1' - 0 1/2"
EQ
2' - 0"
E2 SECTION
3/4" = 1'-0"

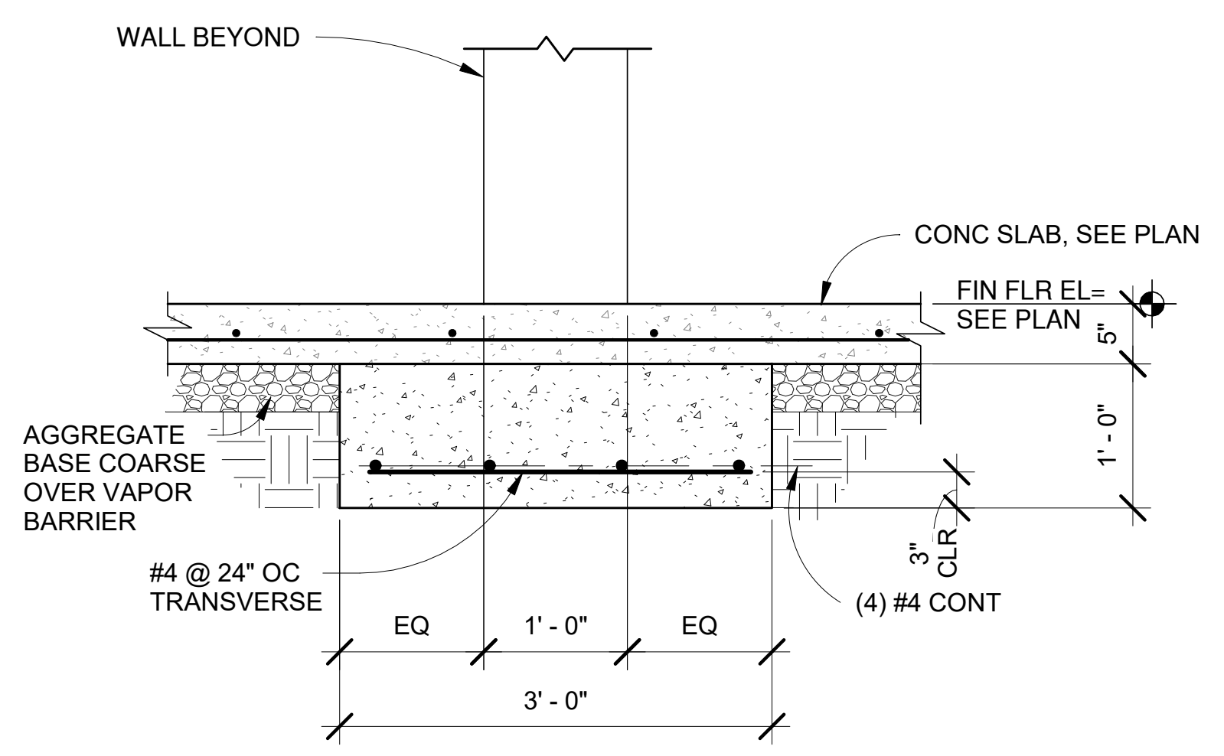


E3 TYP SLAB REINF AT DOOR OPENINGS
3/4" = 1'-0"

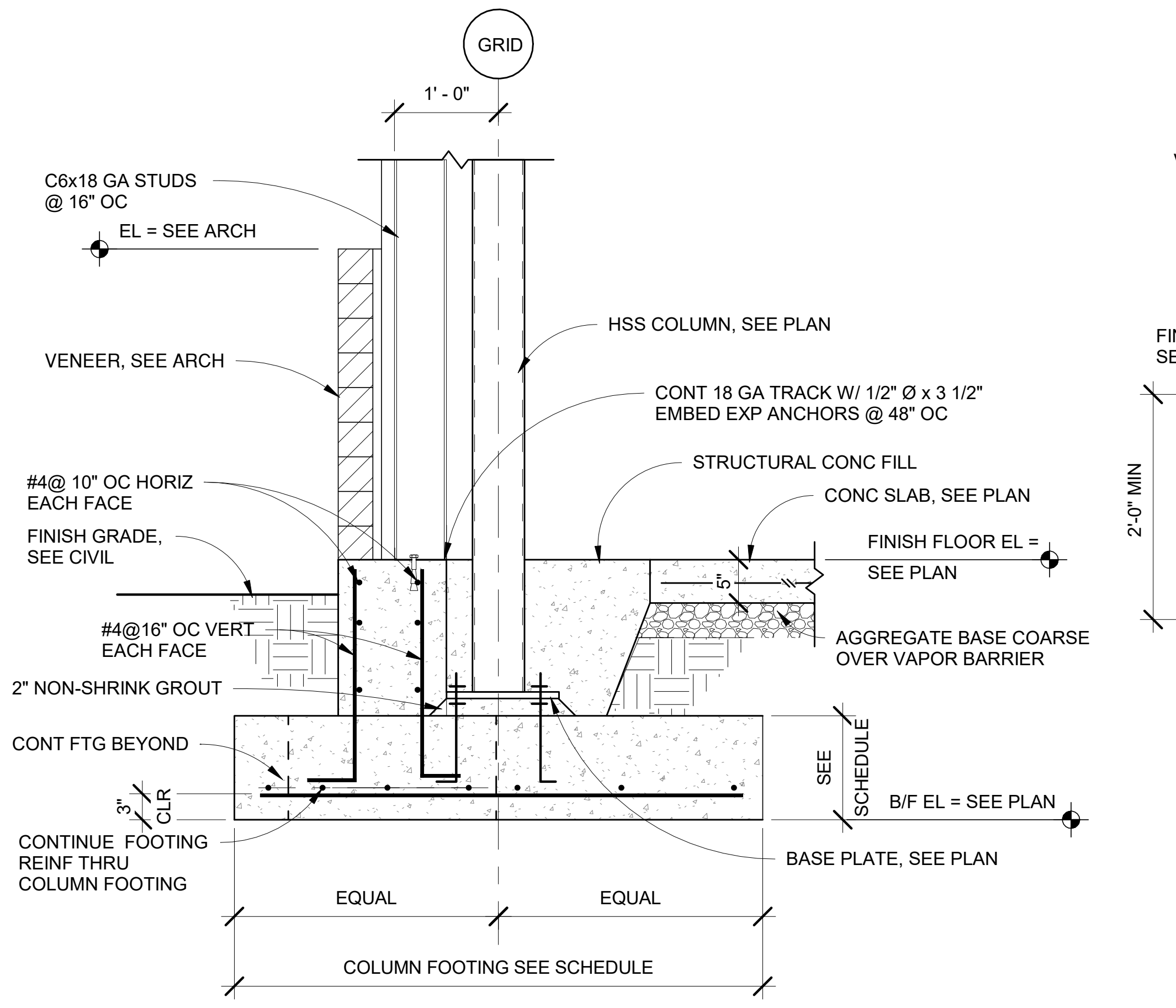

CONT KEYED JOINT
AT END OF POUR
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1/8"x1/3 DEPTH-OF-SLAB SAWCUT
AT SAWCUT
AGGREGATE BASE COARSE OVER VAPOR BARRIER
E4 TYP SLAB CONTROL JOINTS
3/4" = 1'-0"



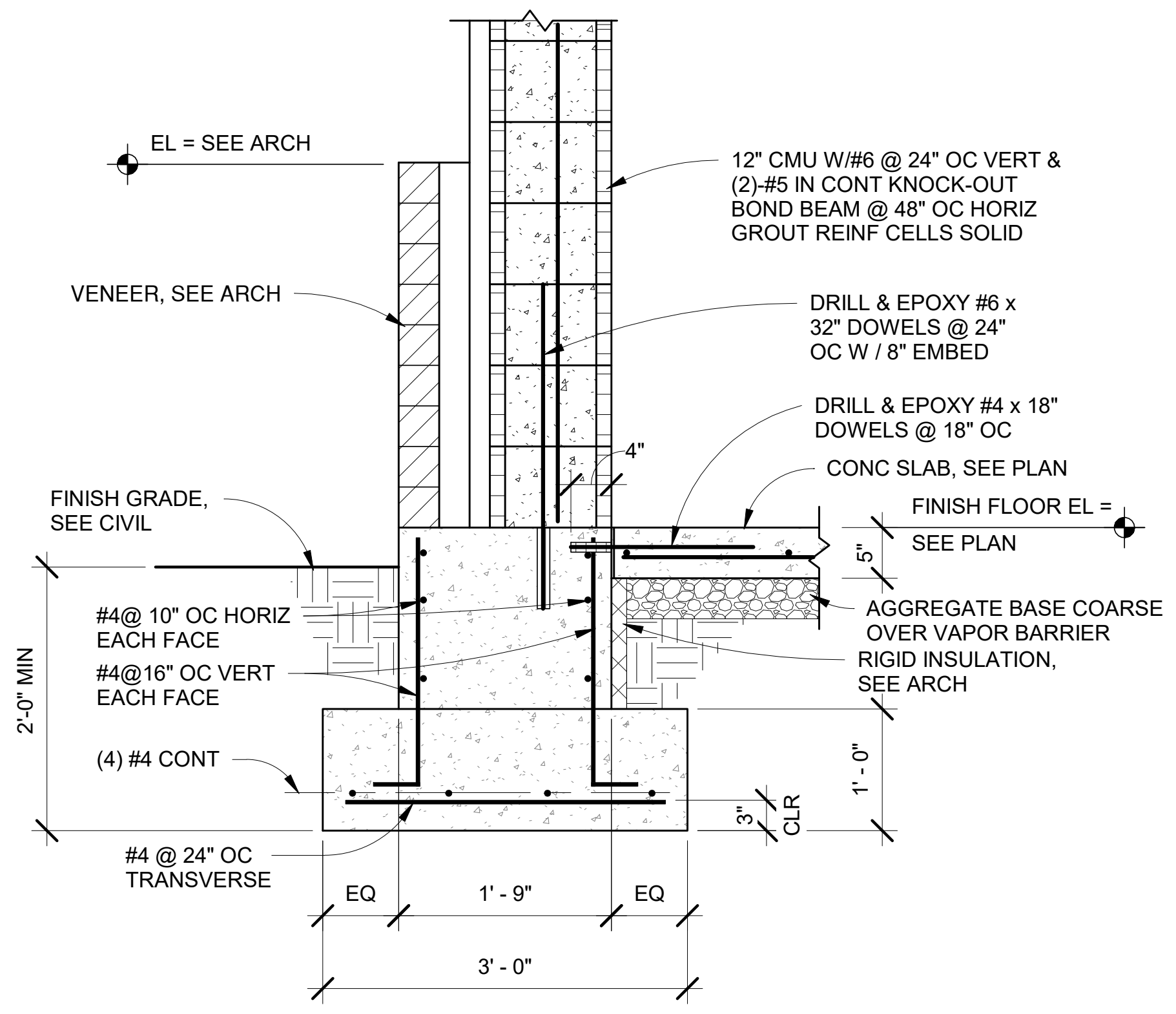
E5 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"

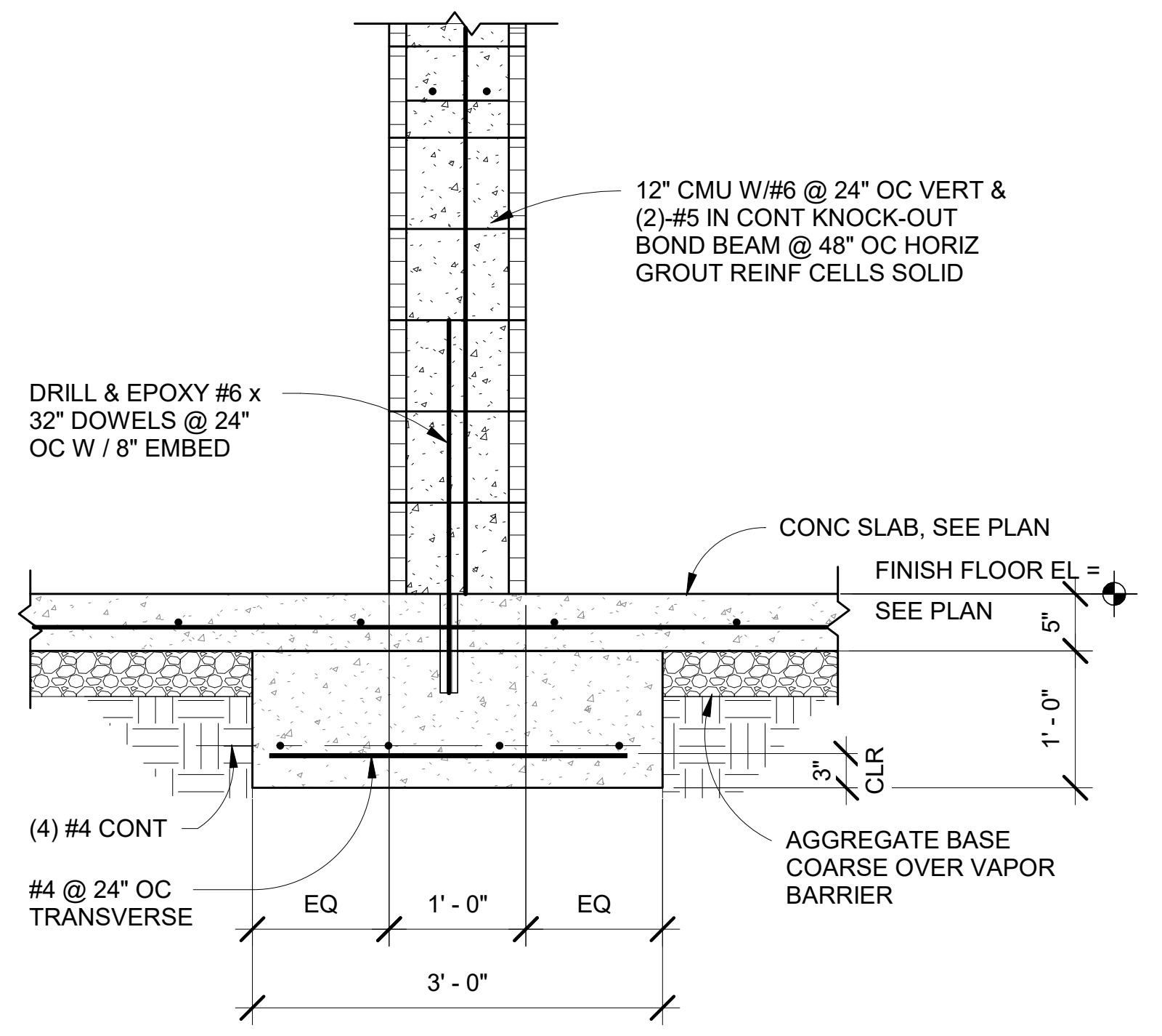


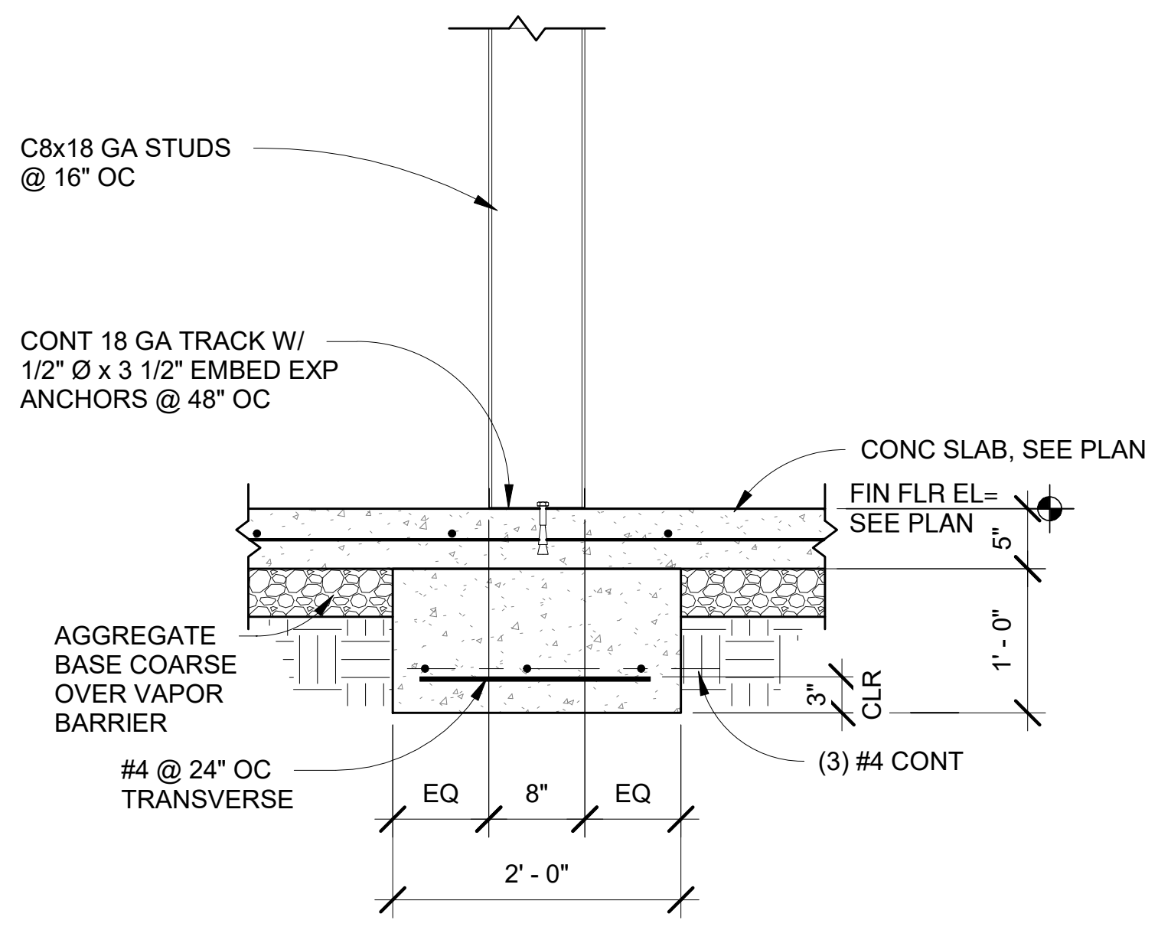
E6 SECTION
3/4" = 1'-0"



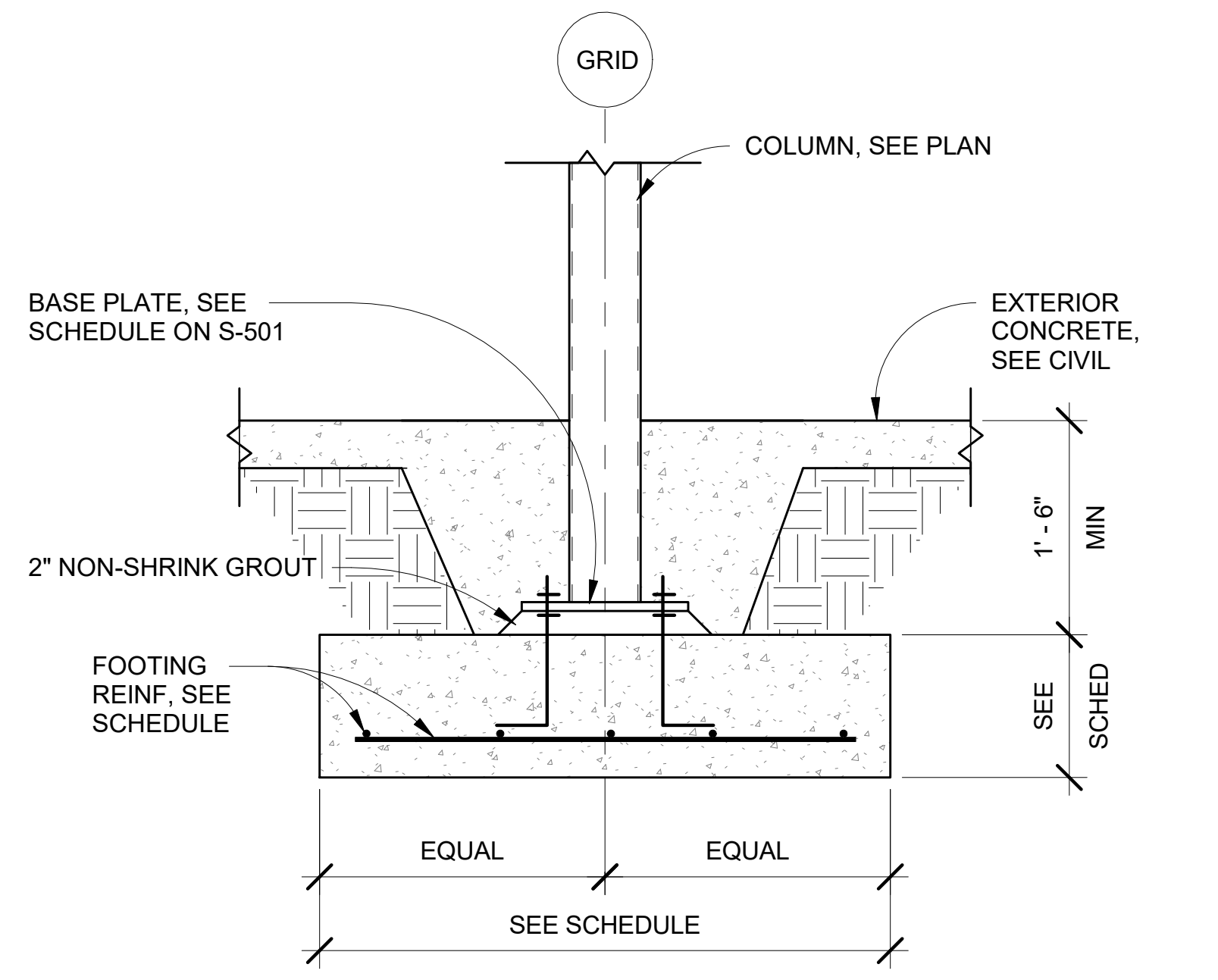
C1 SECTION
3/4" = 1'-0"

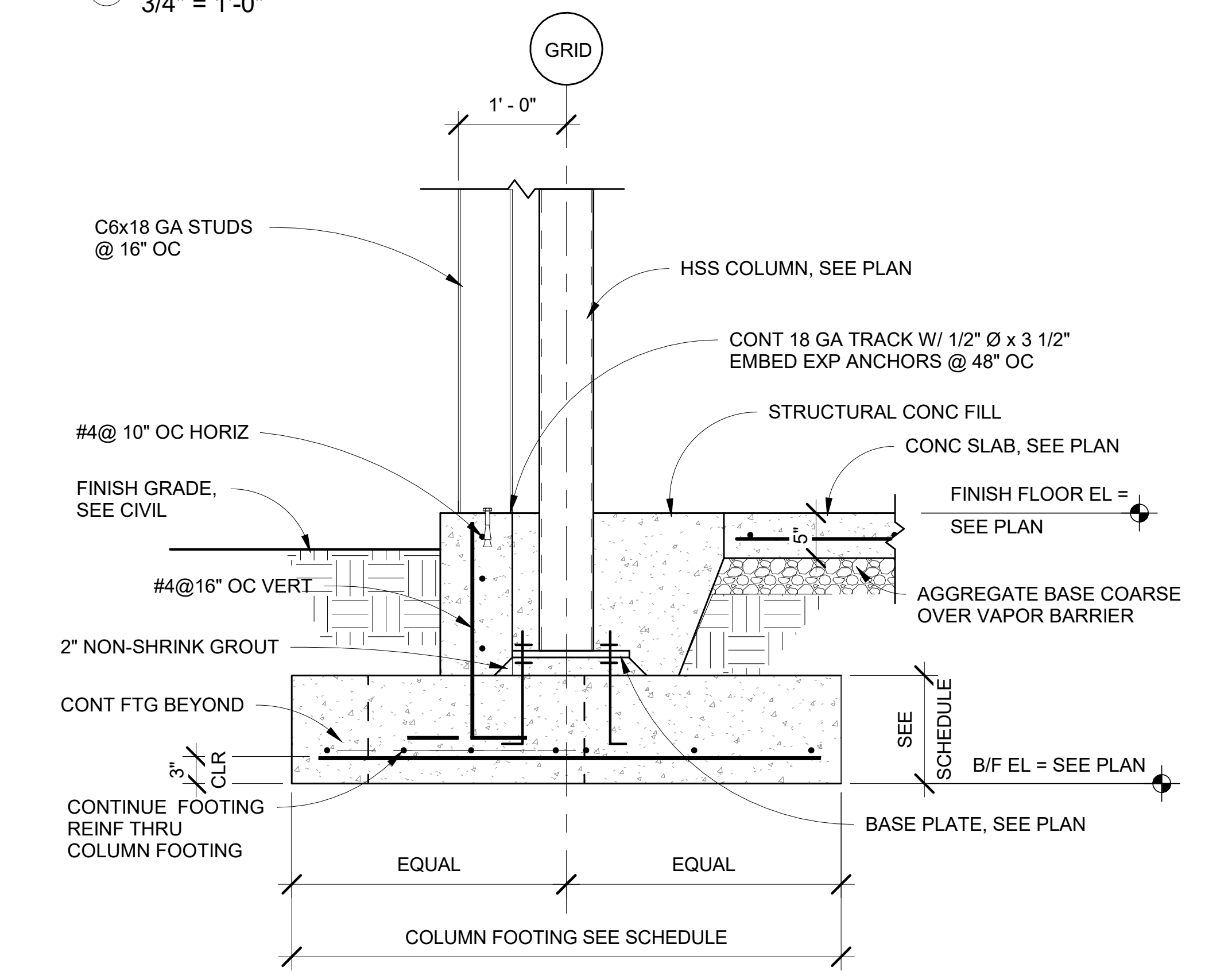

EL = SEE ARCH
12" CMU W/#6 @ 24" OC VERT & (2)-#5 IN CONT KNOCK-OUT BOND BEAM @ 48" OC HORIZ GROUT REINF CELLS SOLID
VENEER, SEE ARCH
DRILL & EPOXY #6 x 32" DOWELS @ 24" OC W / 8" EMBED
DRILL & EPOXY #4 x 18" DOWELS @ 18" OC
4"
FINISH GRADE, SEE CIVIL
CONC SLAB, SEE PLAN
FINISH FLOOR EL = SEE PLAN
#4@ 10" OC HORIZ EACH FACE
#4@16" OC VERT EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
RIGID INSULATION, SEE ARCH
(4) #4 CONT
#4 @ 24" OC TRANSVERSE
2'-0" MIN
1' - 0"
3" CLR
EQ
1' - 9"
EQ
3' - 0"
C2 SECTION
3/4" = 1'-0"


12" CMU W/#6 @ 24" OC VERT & (2)-#5 IN CONT KNOCK-OUT BOND BEAM @ 48" OC HORIZ GROUT REINF CELLS SOLID
DRILL & EPOXY #6 x 32" DOWELS @ 24" OC W / 8" EMBED
CONC SLAB, SEE PLAN
FINISH FLOOR EL = SEE PLAN
(4) #4 CONT
#4 @ 24" OC TRANSVERSE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1' - 0"
3" CLR
EQ
1' - 0"
EQ
3' - 0"
C4 SECTION
3/4" = 1'-0"

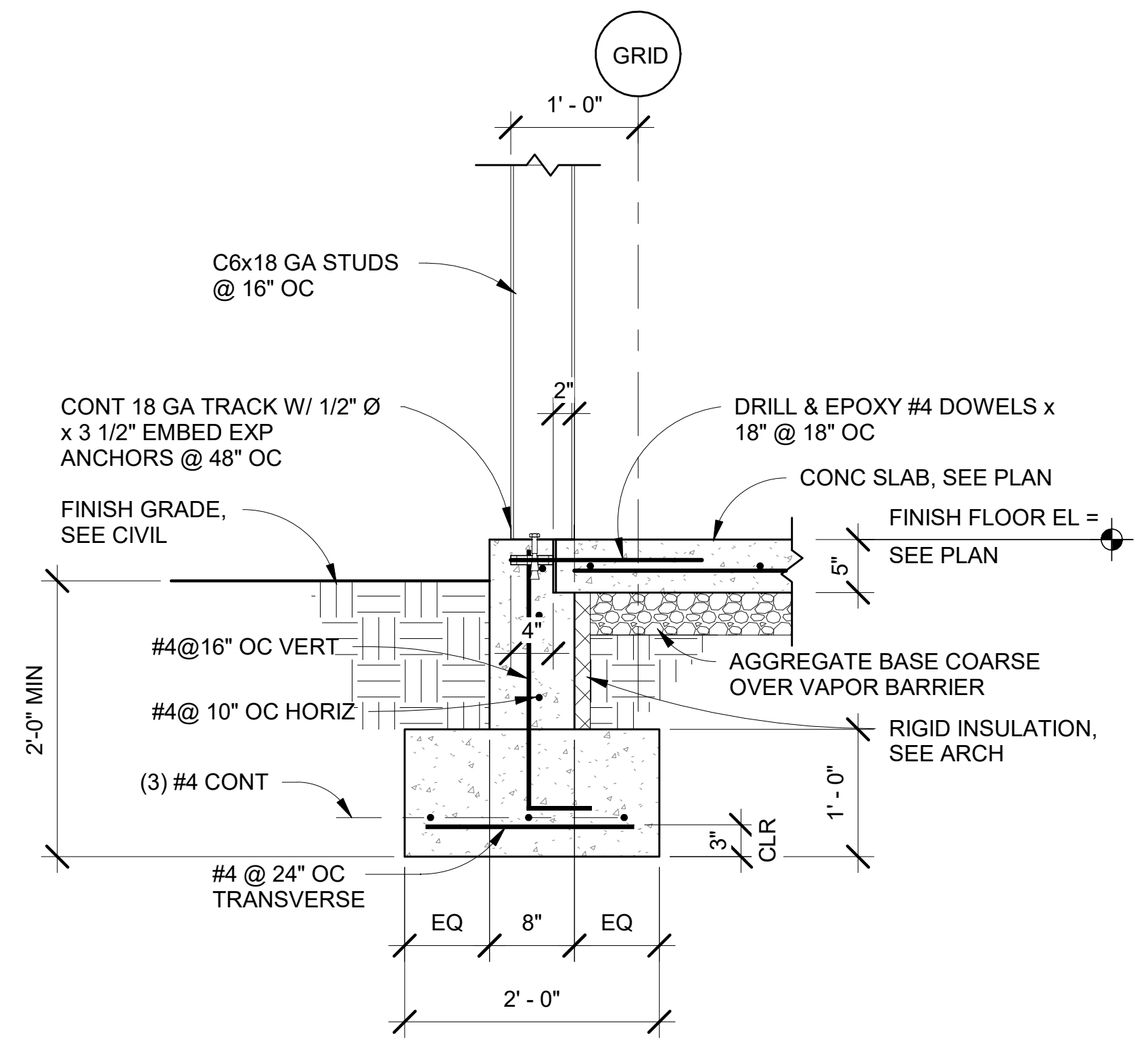


C5 SECTION
3/4" = 1'-0"


GRID
COLUMN, SEE PLAN
BASE PLATE, SEE SCHEDULE ON S-501
EXTERIOR CONCRETE, SEE CIVIL
2" NON-SHRINK GROUT
FOOTING REINF, SEE SCHEDULE
1' - 6" MIN
SEE SCHED
EQUAL
EQUAL
SEE SCHEDULE
C6 TYPICAL EXTERIOR COLUMN
3/4" = 1'-0"



B1 SECTION
3/4" = 1'-0"


GRID
1' - 0"
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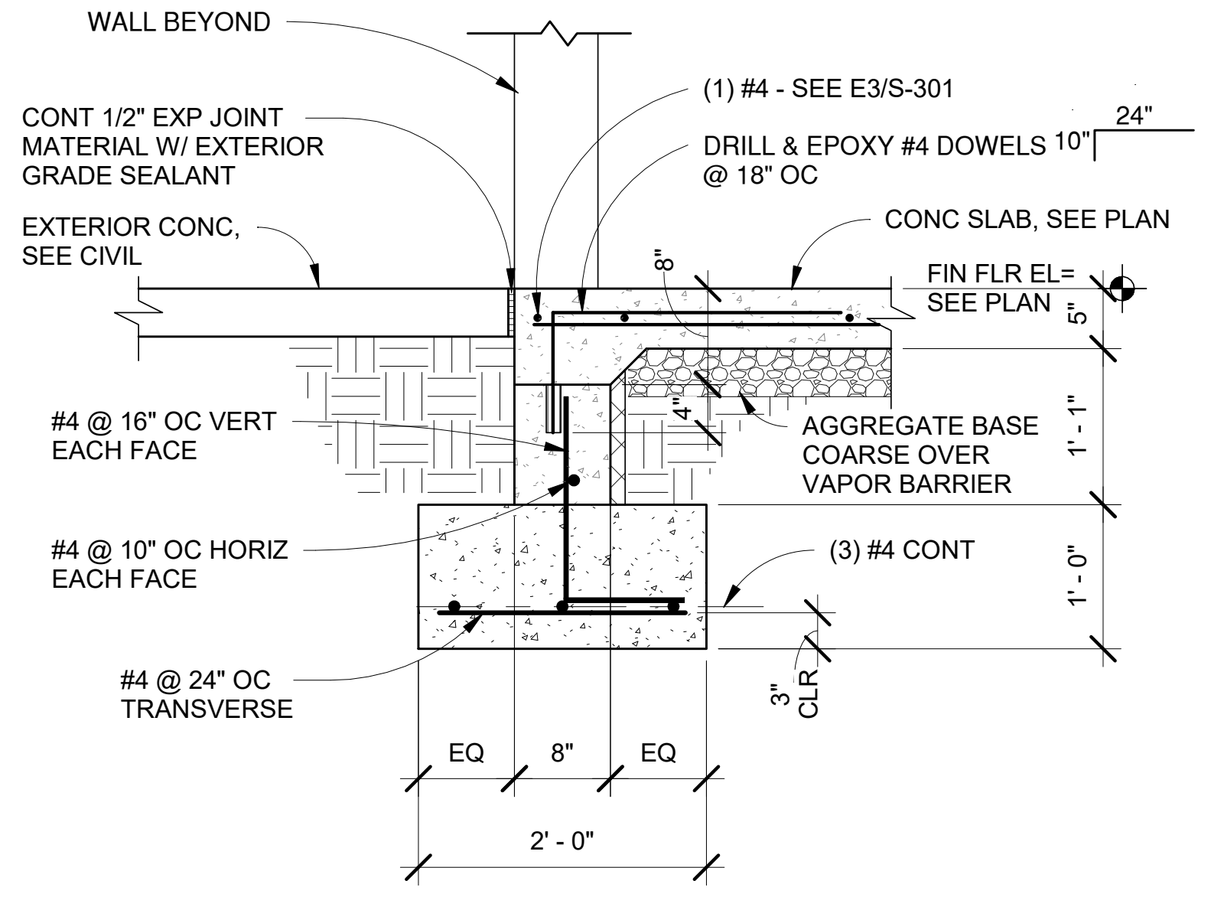
CONC SLAB, SEE PLAN
FINISH GRADE, SEE CIVIL
FINISH FLOOR EL = SEE PLAN
#4@16" OC VERT
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4@ 10" OC HORIZ
RIGID INSULATION, SEE ARCH
(3) #4 CONT
#4 @ 24" OC TRANSVERSE
2'-0" MIN
1' - 0"
3" CLR
EQ
8"
EQ
2' - 0"
B2 SECTION
3/4" = 1'-0"


WALL BEYOND
CONT 1/2" EXP JOINT MATERIAL W/ EXTERIOR GRADE SEALANT
(1) #4 - SEE E3/S-301
DRILL & EPOXY #4 DOWELS @ 18" OC
24"
10"
EXTERIOR CONC, SEE CIVIL
CONC SLAB, SEE PLAN
FIN FLR EL= SEE PLAN
#4 @ 16" OC VERT EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4 @ 10" OC HORIZ EACH FACE
(3) #4 CONT
#4 @ 24" OC TRANSVERSE
1' - 1"
1' - 0"
3" CLR
EQ
8"
EQ
2' - 0"
B3 SECTION
3/4" = 1'-0"

8/21/2020 11:29:09 AM

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle - New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM 87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

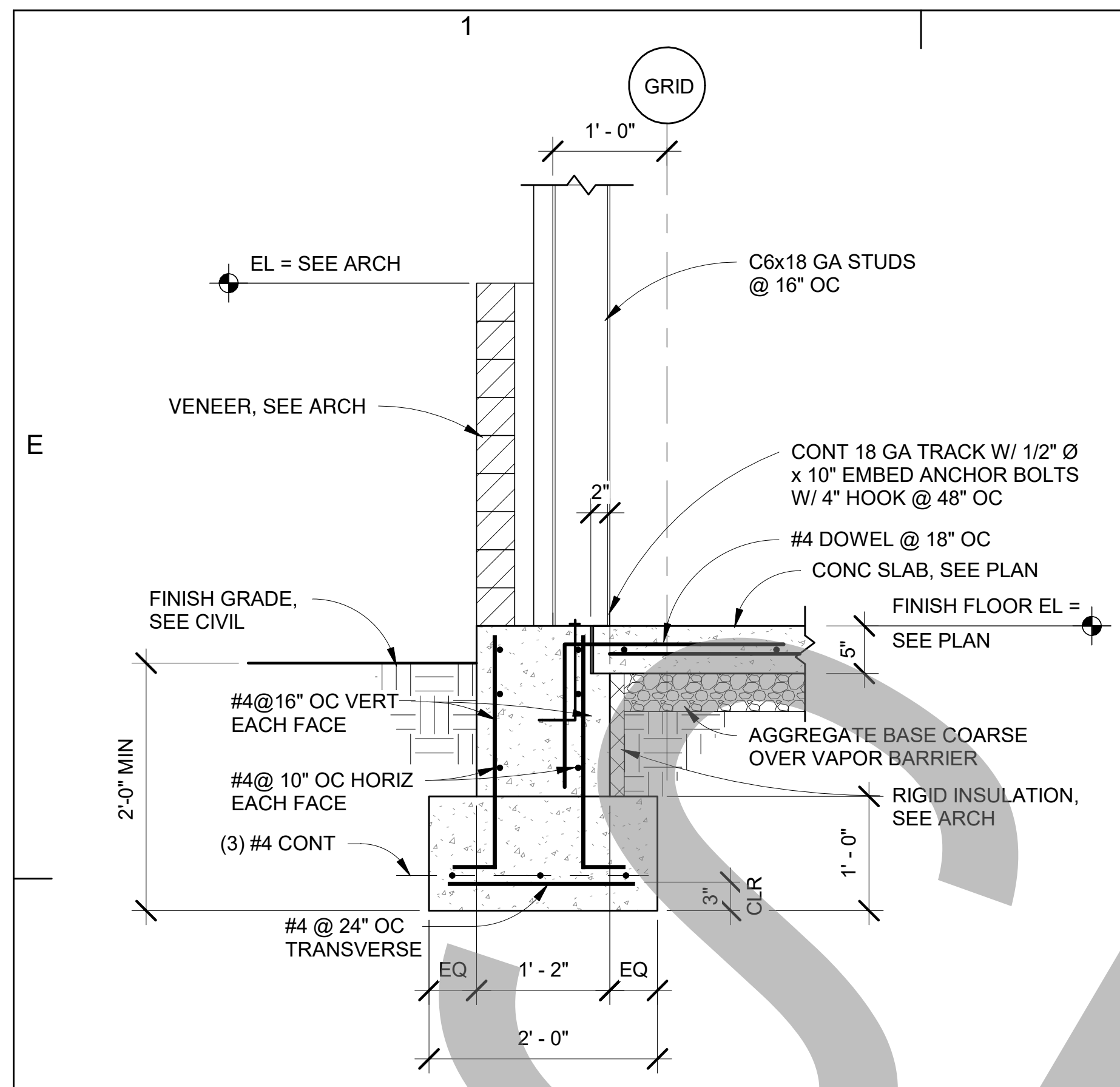
ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

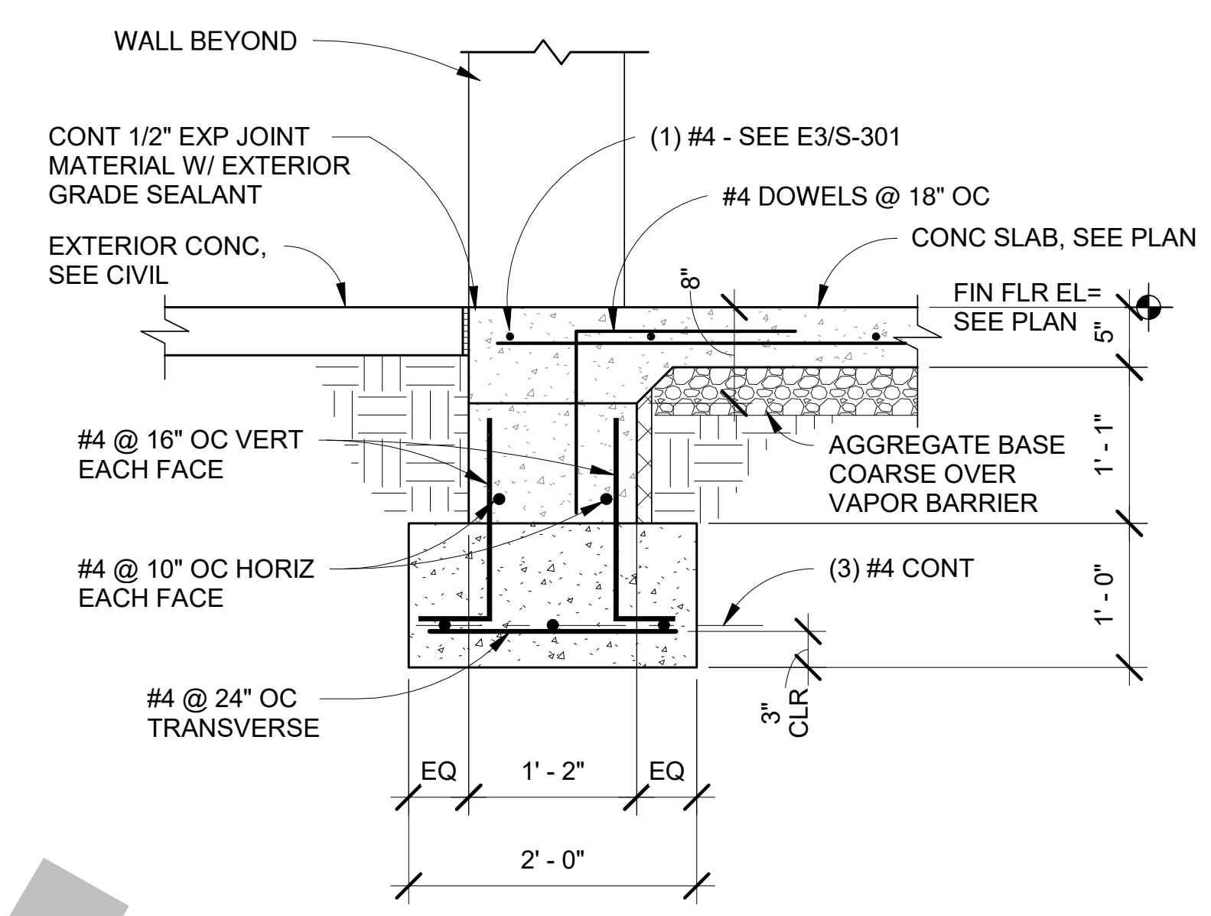
FOUNDATION SECTIONS

S-301

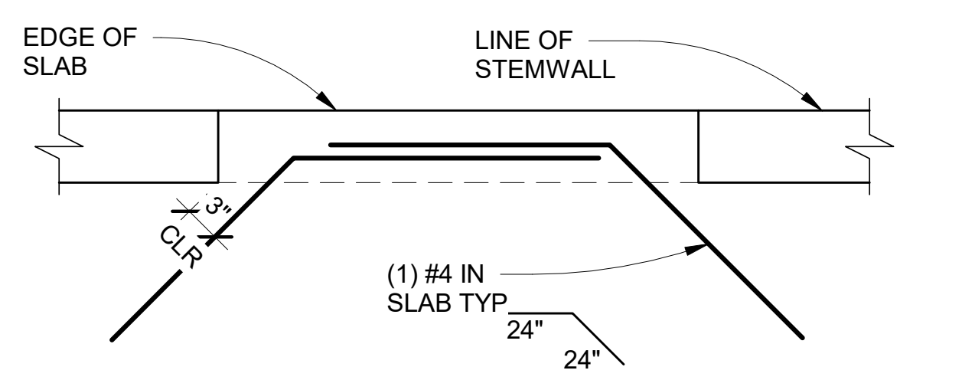
School Information



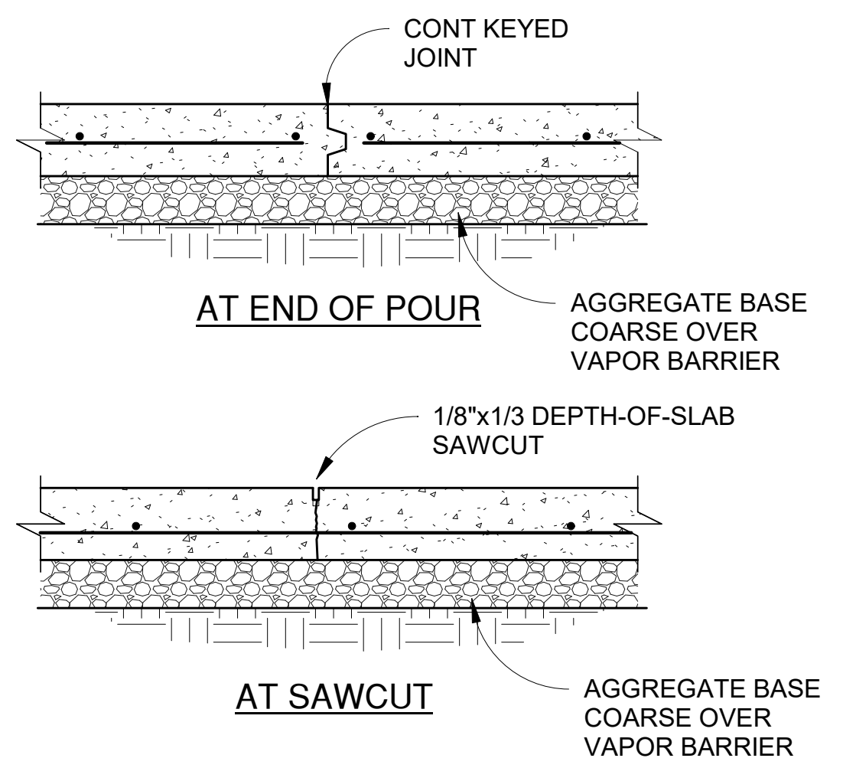
E1 SECTION
3/4" = 1'-0"



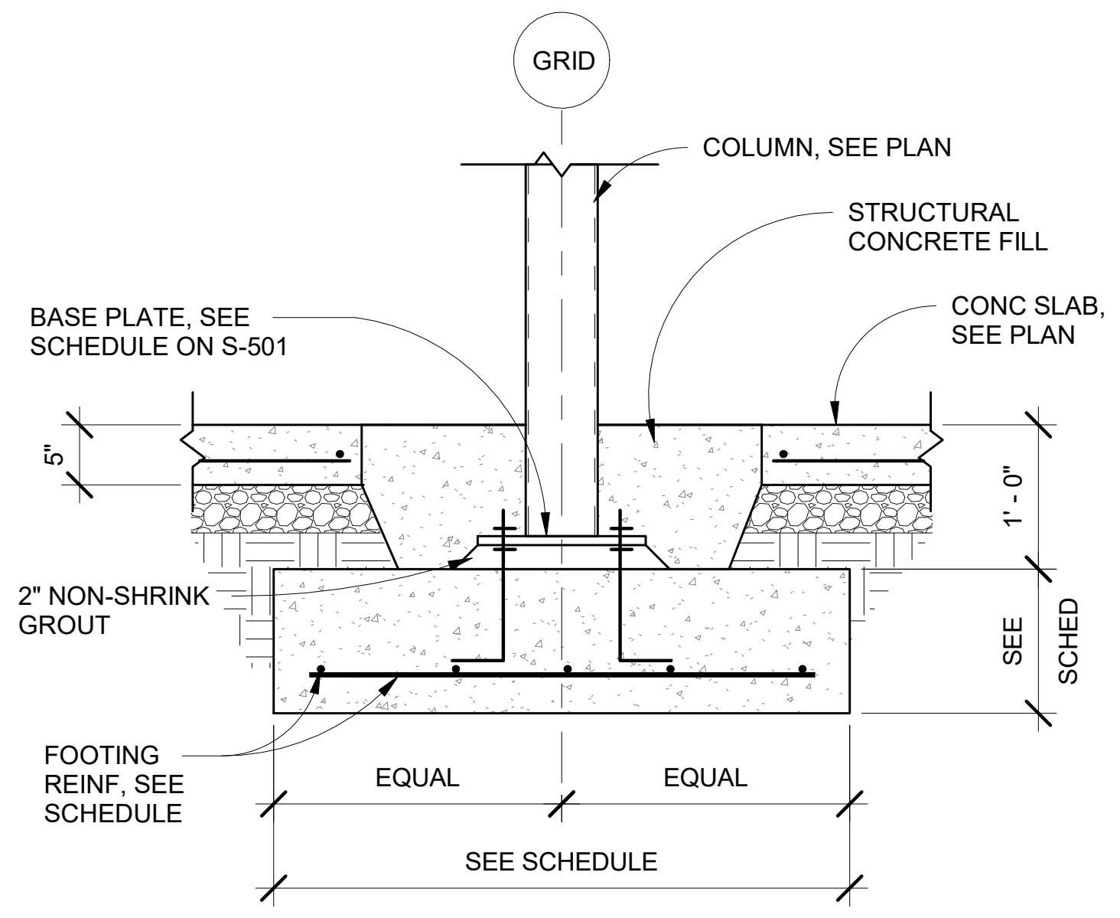
E2 SECTION
3/4" = 1'-0"



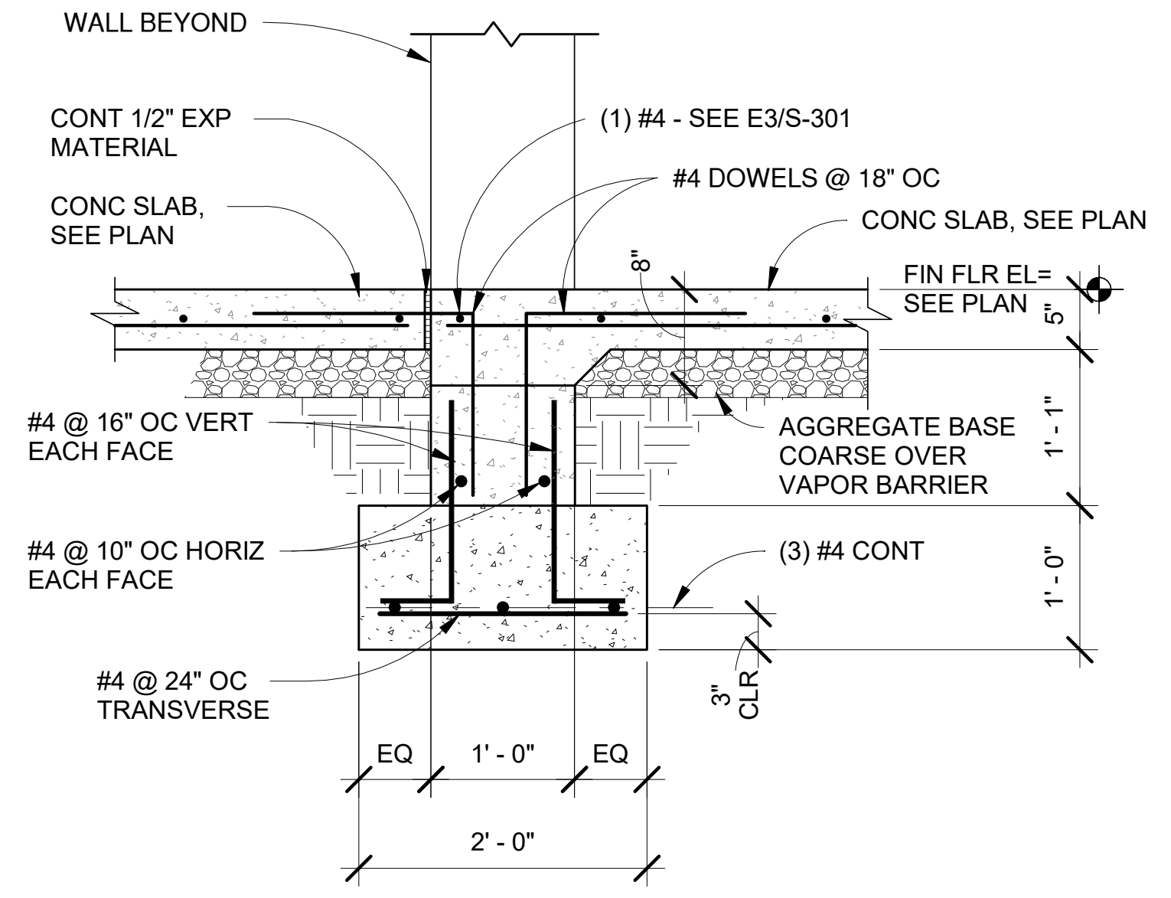
E3 TYP SLAB REINF AT DOOR OPENINGS
3/4" = 1'-0"


CONT KEYED JOINT
AT END OF POUR
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1/8"x1/3 DEPTH-OF-SLAB SAWCUT
AT SAWCUT
AGGREGATE BASE COARSE OVER VAPOR BARRIER

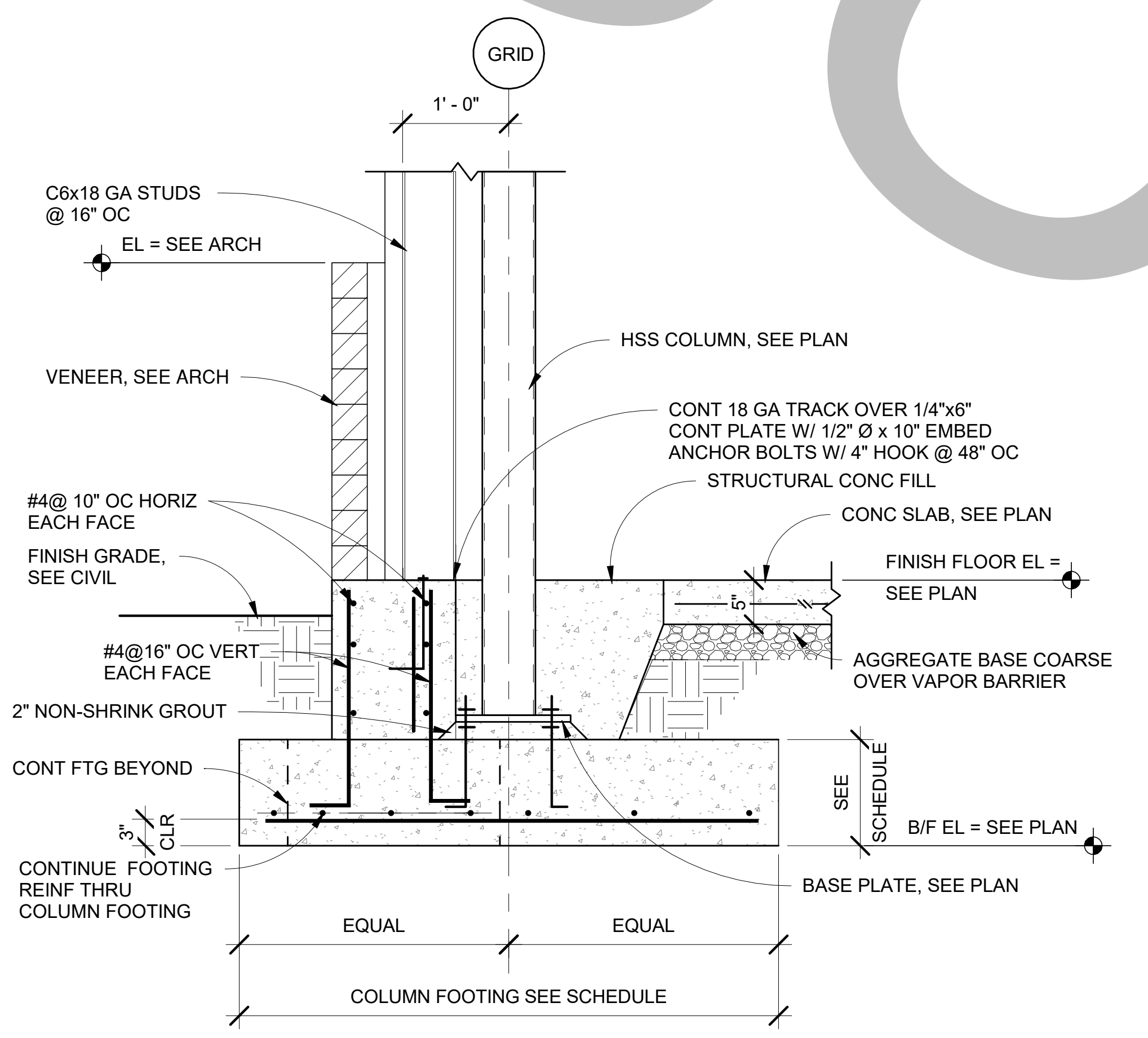
E4 TYP SLAB CONTROL JOINTS
3/4" = 1'-0"



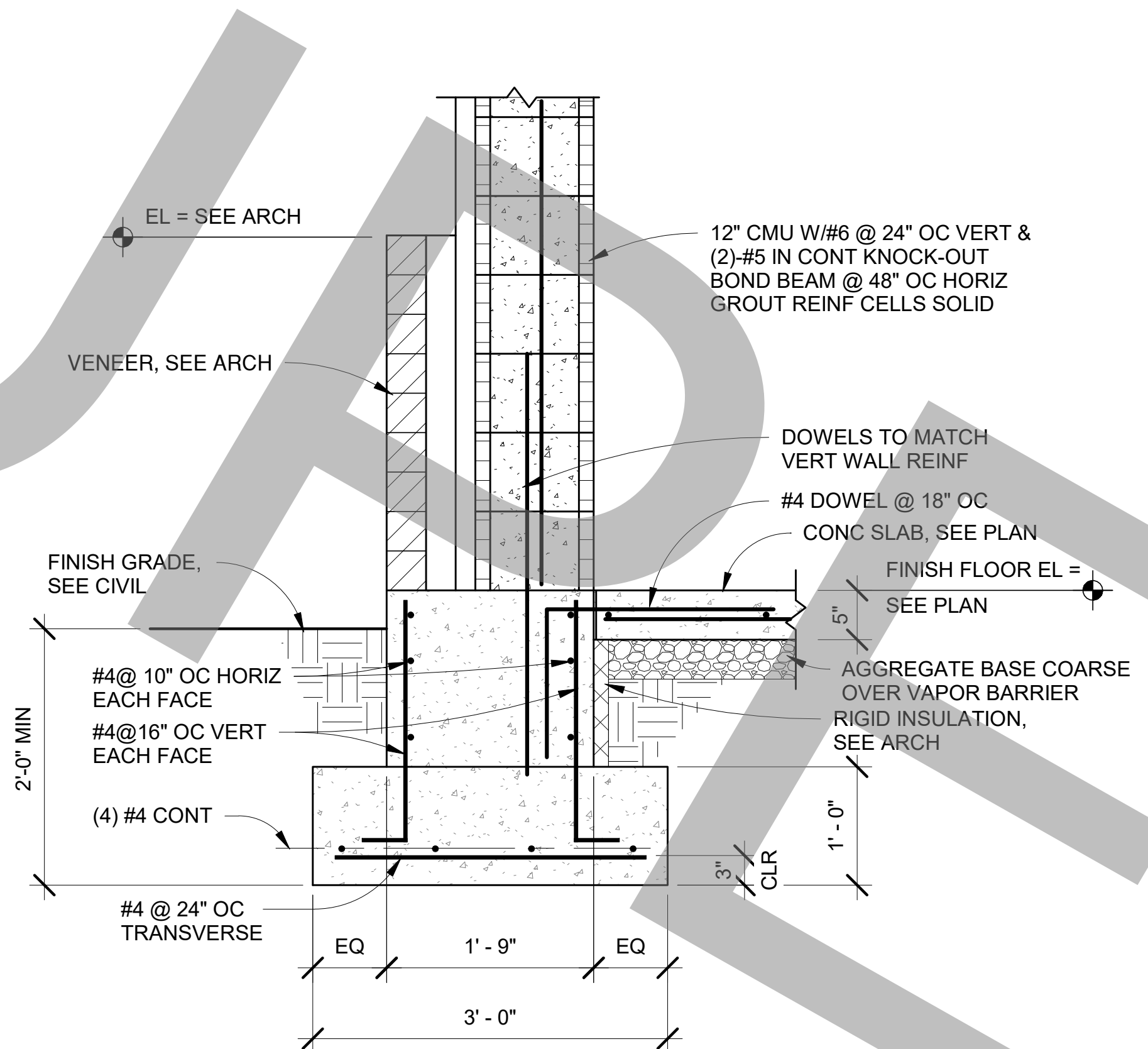
E5 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



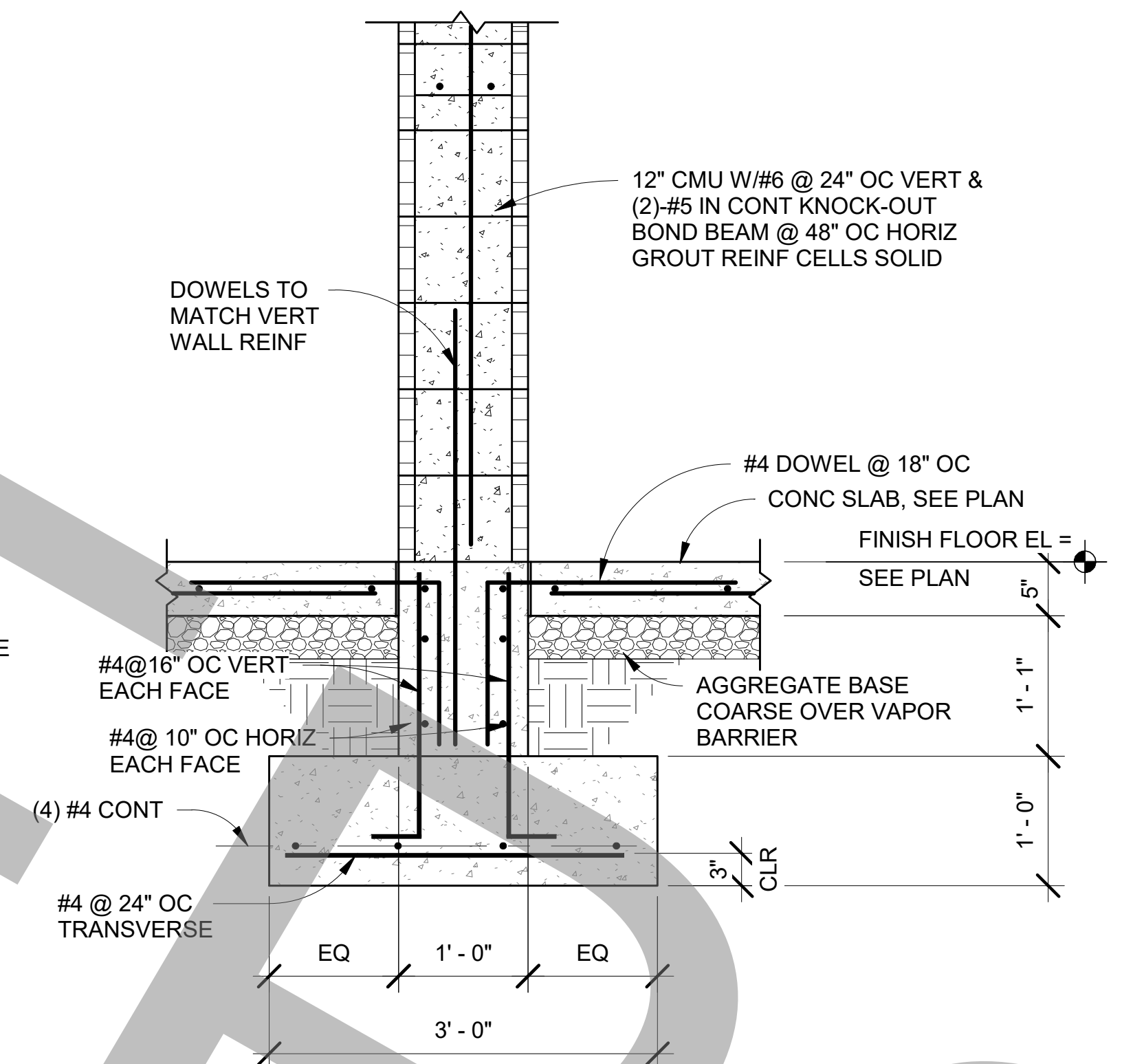
E6 SECTION
3/4" = 1'-0"



C1 SECTION
3/4" = 1'-0"


EL = SEE ARCH
12" CMU W/#6 @ 24" OC VERT & (2)-#5 IN CONT KNOCK-OUT BOND BEAM @ 48" OC HORIZ GROUT REINF CELLS SOLID
VENEER, SEE ARCH
DOWELS TO MATCH VERT WALL REINF
#4 DOWEL @ 18" OC
CONC SLAB, SEE PLAN
FINISH GRADE, SEE CIVIL
FINISH FLOOR EL = SEE PLAN
#4@ 10" OC HORIZ EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4@16" OC VERT EACH FACE
RIGID INSULATION, SEE ARCH
(4) #4 CONT
#4 @ 24" OC TRANSVERSE
2'-0" MIN
1' - 1"
1' - 0"
3" CLR
EQ
1' - 9"
EQ
3' - 0"

C2 SECTION
3/4" = 1'-0"


12" CMU W/#6 @ 24" OC VERT & (2)-#5 IN CONT KNOCK-OUT BOND BEAM @ 48" OC HORIZ GROUT REINF CELLS SOLID
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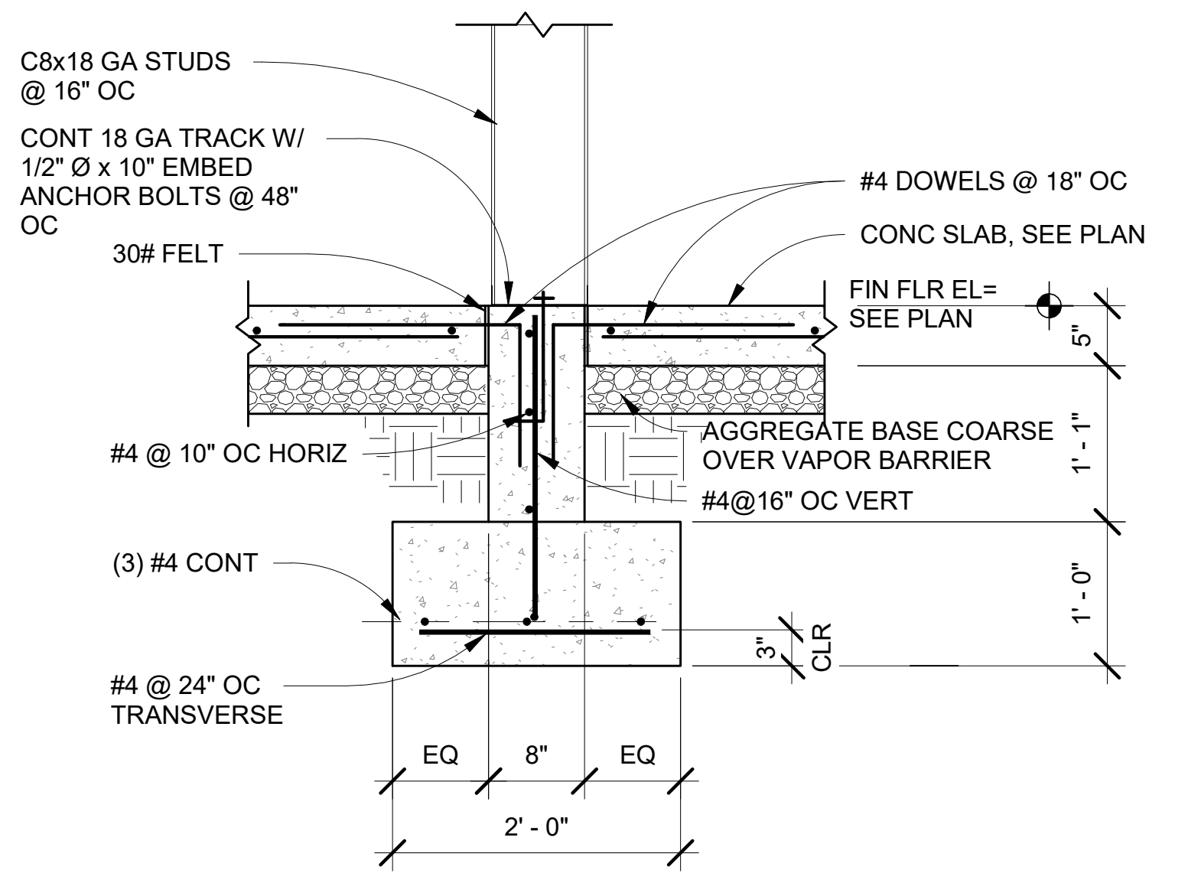
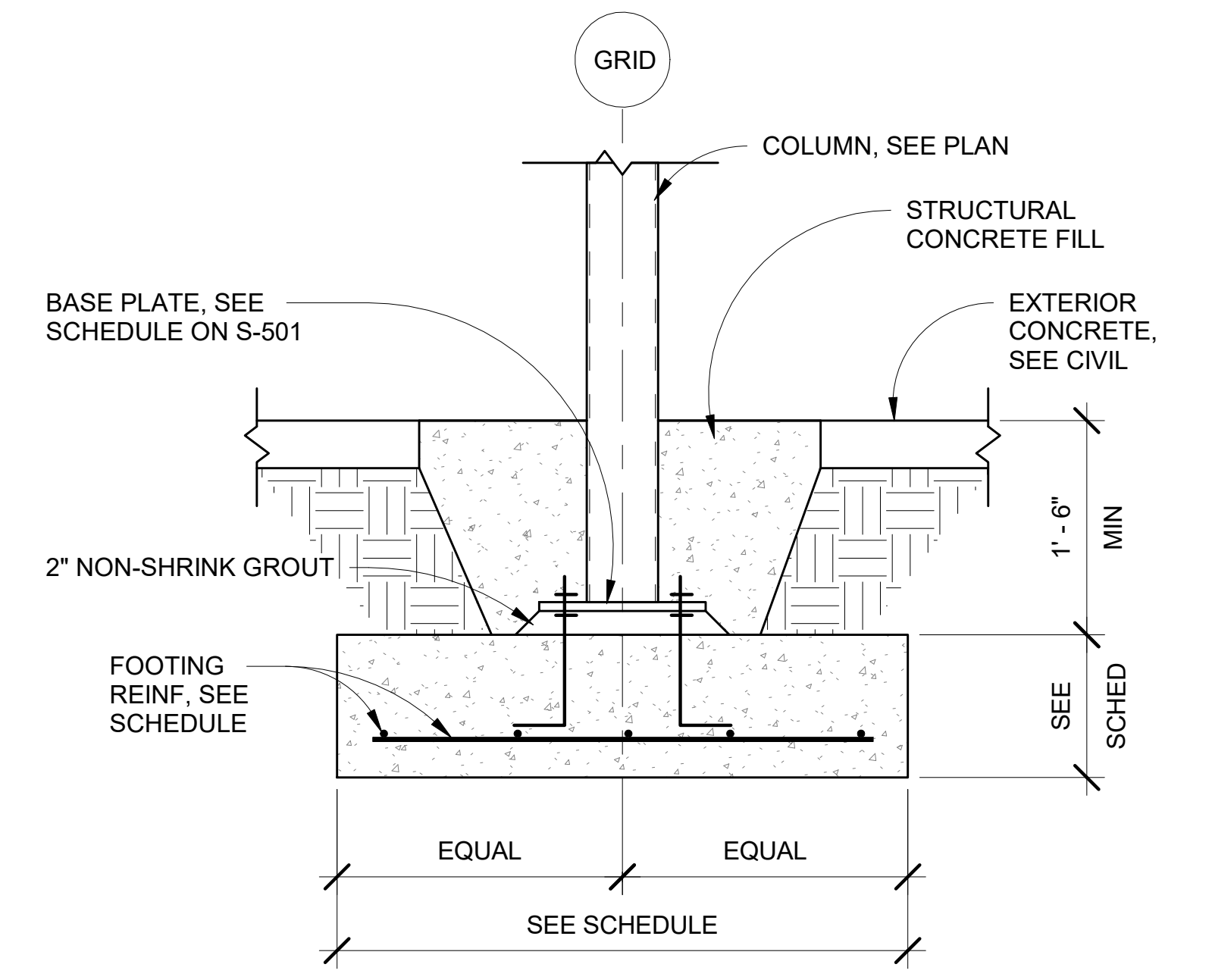
#4 @ 10" OC HORIZ EACH FACE
(4) #4 CONT
#4 @ 24" OC TRANSVERSE
1' - 1"
1' - 0"
3" CLR
EQ
1' - 0"
EQ
3' - 0"

C4 SECTION
3/4" = 1'-0"



C5 SECTION
3/4" = 1'-0"



C6 TYPICAL EXTERIOR COLUMN
3/4" = 1'-0"

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
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WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

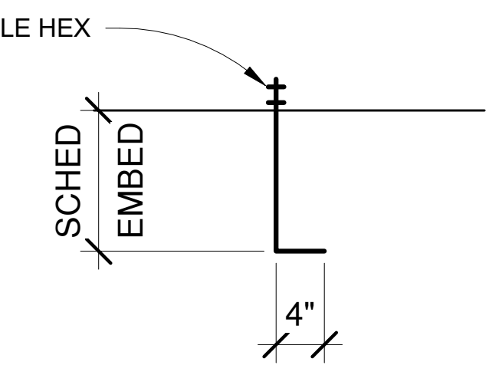
SHEET TITLE
FOUNDATION SECTIONS (SCHOOL)

S-301

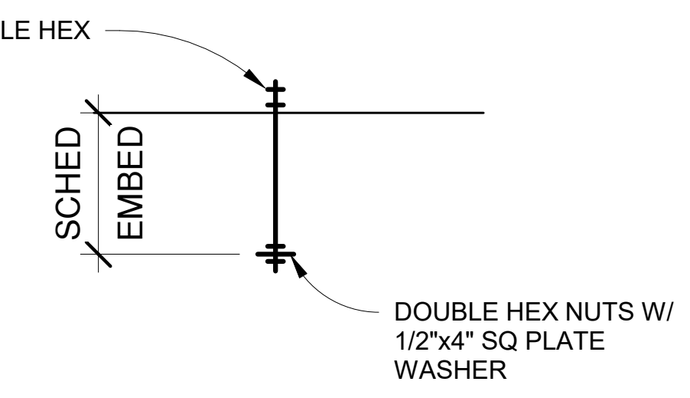
Dzilth-Na-O-Dith-Hle - New School Building

## BASE PLATE SCHEDULE

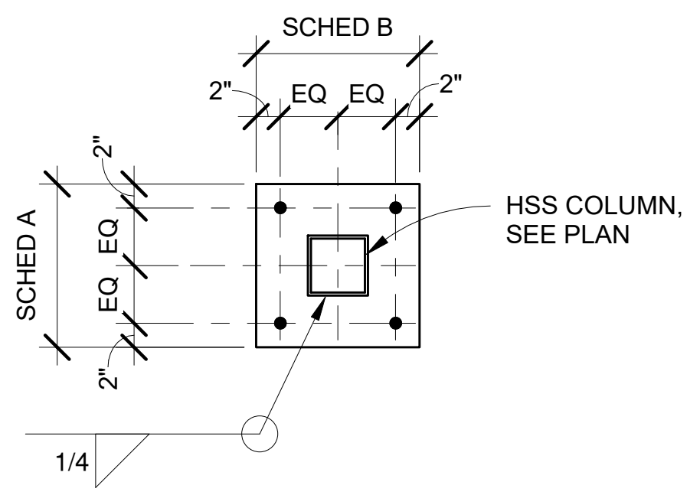
| MARK | TYPE | SIZE "T"x"A"x"B" | A307 ANCHOR BOLTS | ANCHOR BOLT TYPE |
|---|---|---|---|---|
| 1 | A | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED | 1 |
| 2 | B | 1"x13"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |
| 3 | D | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |
| 4 | A | 7/8"x13"x1'-1" | (4)- 3/4"Øx 9" EMBED | 1 |
| 5 | A | 1"x13"x1'-1" | (4)- 3/4"Øx9" EMBED | 1 |
| 6 | B | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |
| 7 | C | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |



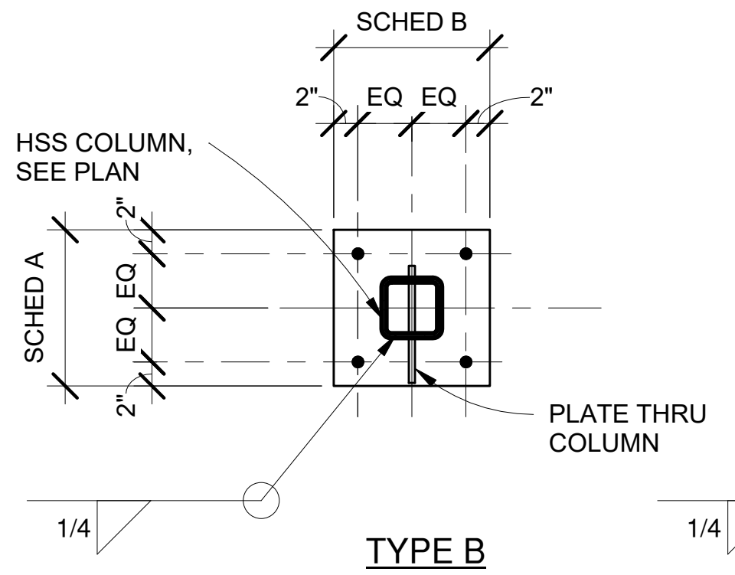
TYPE 1 ANCHOR BOLT



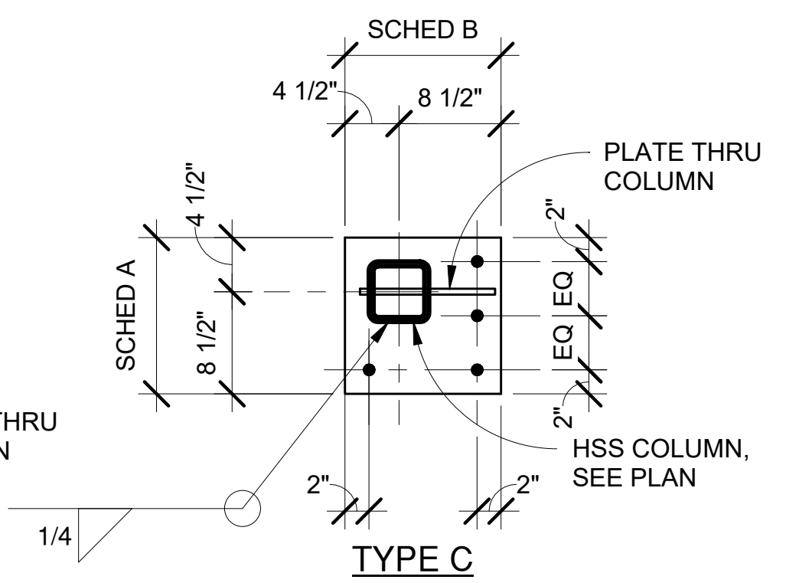
TYPE 2 ANCHOR BOLT



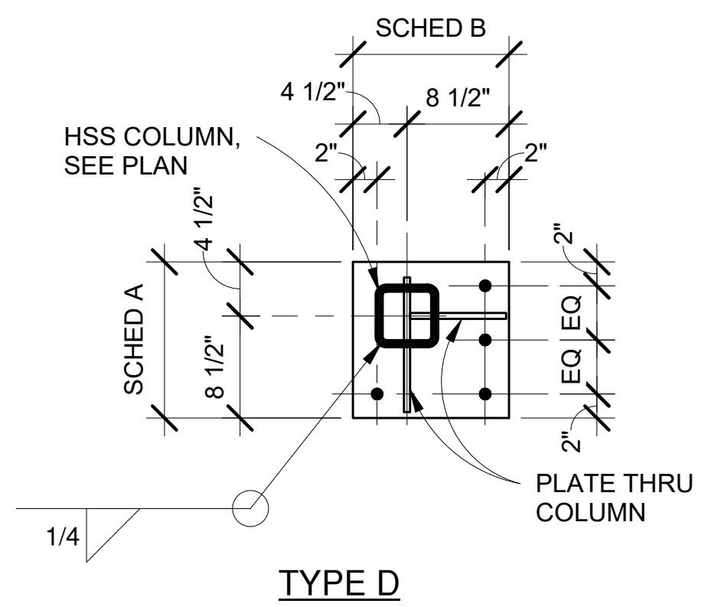
TYPE A



TYPE B

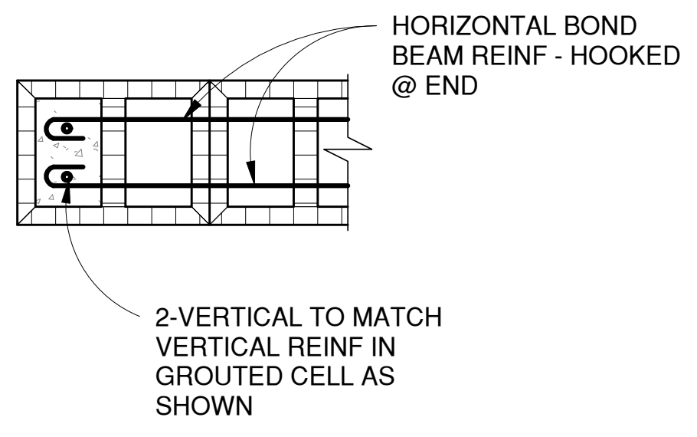


TYPE C

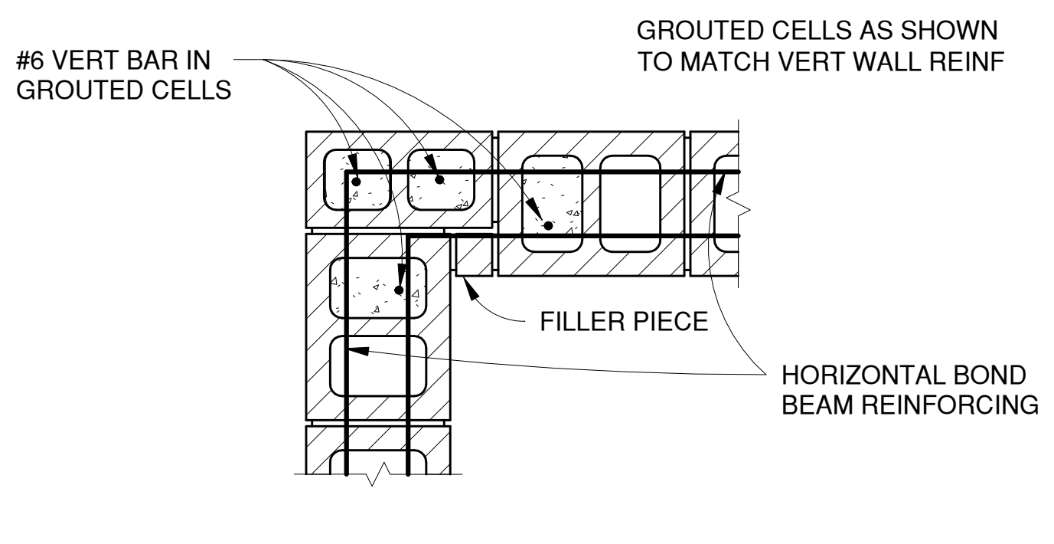


TYPE D

D1 BASE PLATE SCHEDULE
3/4" = 1'-0"

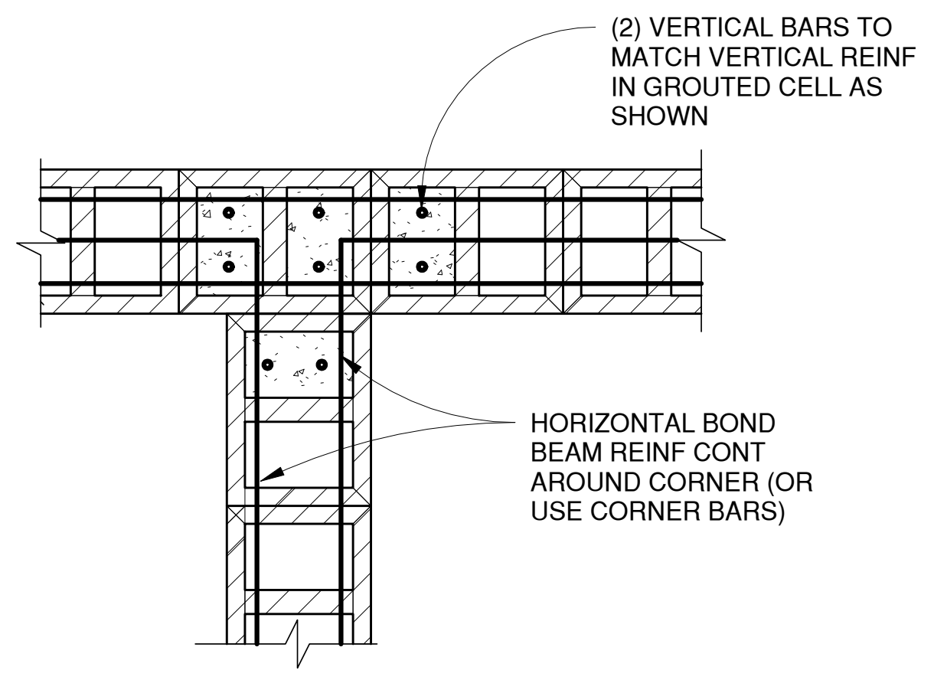

HORIZONTAL BOND BEAM REINF - HOOKED @ END
2-VERTICAL TO MATCH VERTICAL REINF IN GROUTED CELL AS SHOWN

E4 PLAN @ 12" CMU END WALL
3/4" = 1'-0"

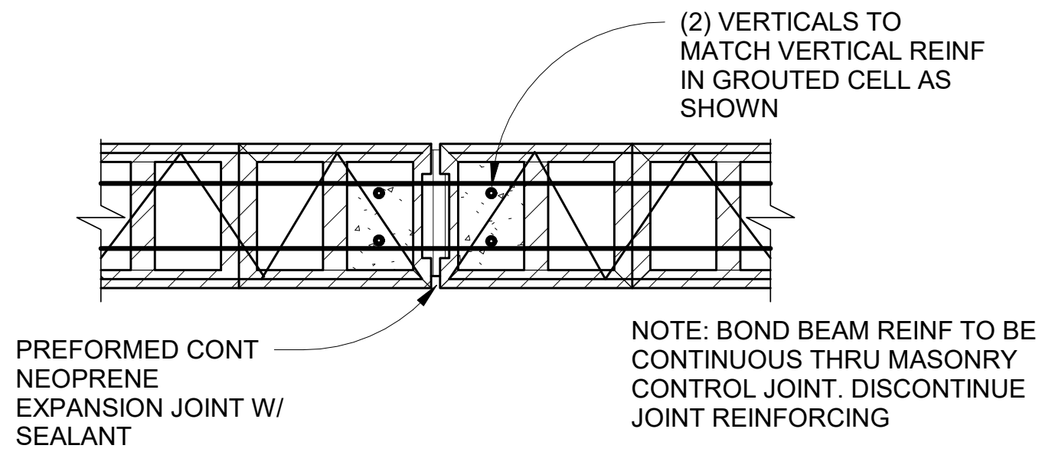

#6 VERT BAR IN GROUTED CELLS
GROUTED CELLS AS SHOWN TO MATCH VERT WALL REINF
FILLER PIECE
HORIZONTAL BOND BEAM REINFORCING

ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNER OR HAVE CORNER BARS OF THE SAME SIZE AND A LAP OF 48 BAR DIAMETERS & 24" MINIMUM.

E5 PLAN @ 12" CMU CORNER
3/4" = 1'-0"

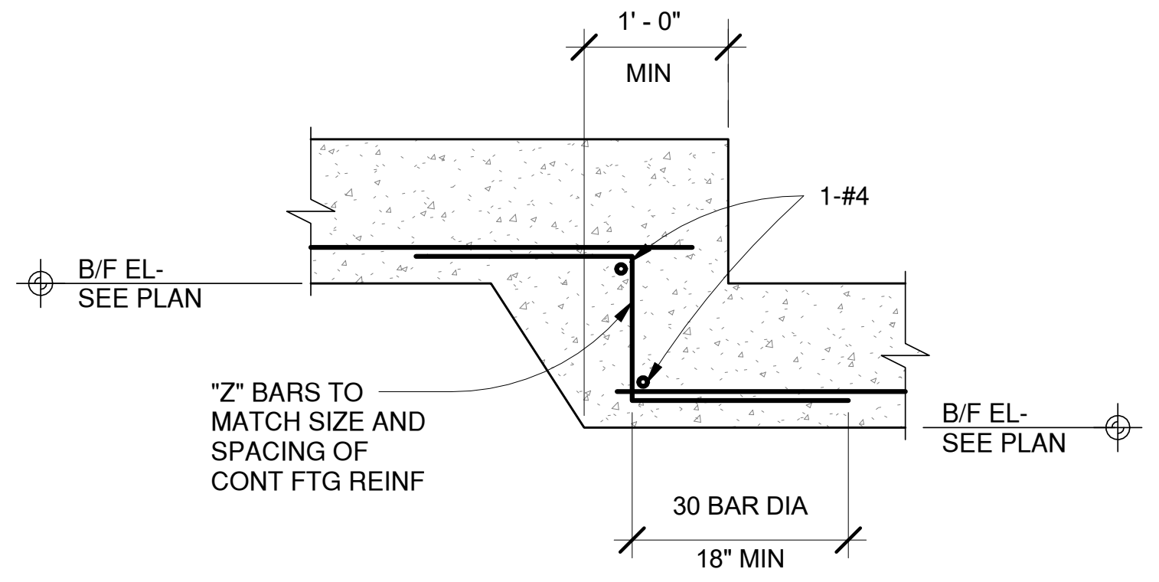

(2) VERTICAL BARS TO MATCH VERTICAL REINF IN GROUTED CELL AS SHOWN
HORIZONTAL BOND BEAM REINF CONT AROUND CORNER (OR USE CORNER BARS)

E6 PLAN @ 12" CMU INTERSECTION
3/4" = 1'-0"

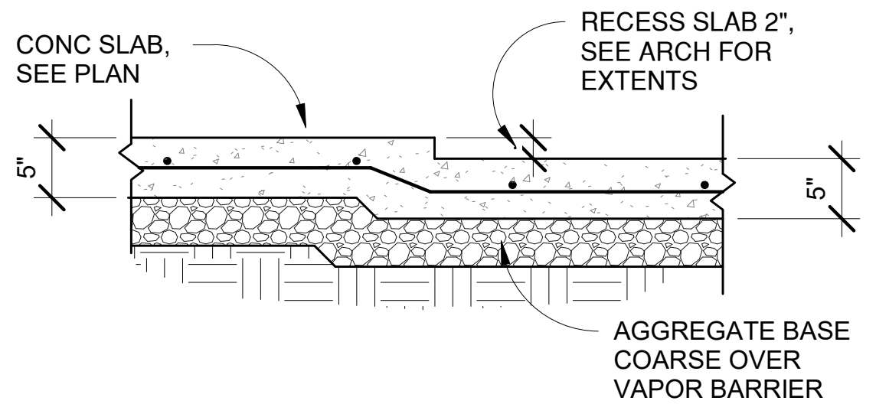

(2) VERTICALS TO MATCH VERTICAL REINF IN GROUTED CELL AS SHOWN
PREFORMED CONT NEOPRENE EXPANSION JOINT W/ SEALANT
NOTE: BOND BEAM REINF TO BE CONTINUOUS THRU MASONRY CONTROL JOINT. DISCONTINUE JOINT REINFORCING

TYPICAL MASONRY CONTROL JOINT (MCJ)

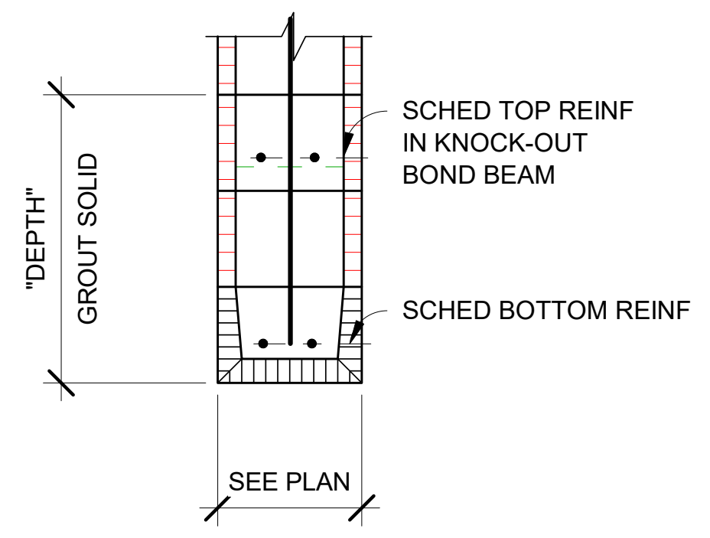
D4 MASONRY CONTROL JOINT @ 12" CMU
3/4" = 1'-0"



D5 TYPICAL STEP FOOTING
3/4" = 1'-0"


CONC SLAB, SEE PLAN
RECESS SLAB 2", SEE ARCH FOR EXTENTS
5"
5"
AGGREGATE BASE COARSE OVER VAPOR BARRIER

D6 RECESS SLAB
3/4" = 1'-0"



NOTE: @ LOCATIONS WHERE # OF JAMB CELLS TO BE REINFORCED & GROUTED EXCEEDS # OF CELLS PRESENT- USE (2)-#6 VERTICALS IN EACH CELL BETWEEN OPENINGS- FULL HEIGHT

## CMU LINTEL SCHEDULE

| MAXIMUM OPENING WIDTH | DEPTH | REINFORCING | # OF JAMB CELLS REINFORCED W/ (1) #5 VERT |
|---|---|---|---|
| 4'-0" | 24" | 2-#5 TOP & BOTTOM | 1 |
| 8'-0" | 32" | 2-#5 TOP & BOTTOM | 2 |
| 12'-0" | 40" | 2-#6 TOP & BOTTOM | 3 |
| 16'-0" | 48" | 2-#6 TOP & BOTTOM | 3 |
| 18'-0" | 56" | 2-#6 TOP & BOTTOM | 4 |
| 20-0" | 64" | 2-#7 TOP, MIDDLE AND BOTTOM | 4 |
| 22-0" | 80" | 2-#7 TOP, MIDDLE AND BOTTOM<br>(1)-#5 VERTICAL @ 16" OC | 5 |
| 24'-8" | 80" | 2-#7 TOP, MIDDLE AND BOTTOM<br>(1)-#5 VERTICAL @ 8" OC | 6 |

NOTE: HORIZONTAL REINFORCING SHALL EXTEND 2'-0" BEYOND OPENING EACH END

C1 MASONRY LINTEL SCHEDULE
3/4" = 1'-0"

8/21/2020 11:29:09 AM

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New School Building**
**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

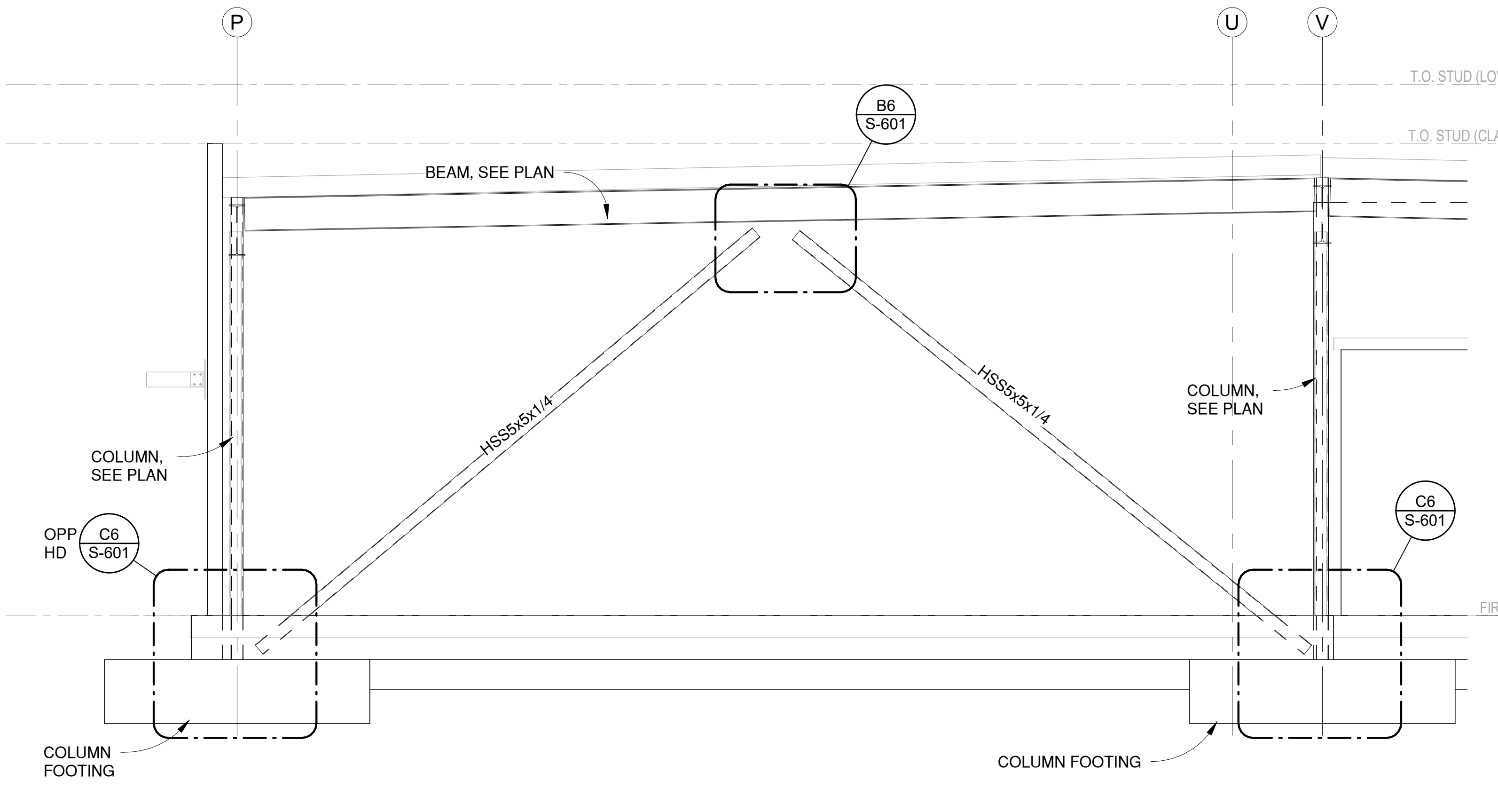
| MARK | DATE | DESCRIPTION |
|---|---|---|
| 9 | | |

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

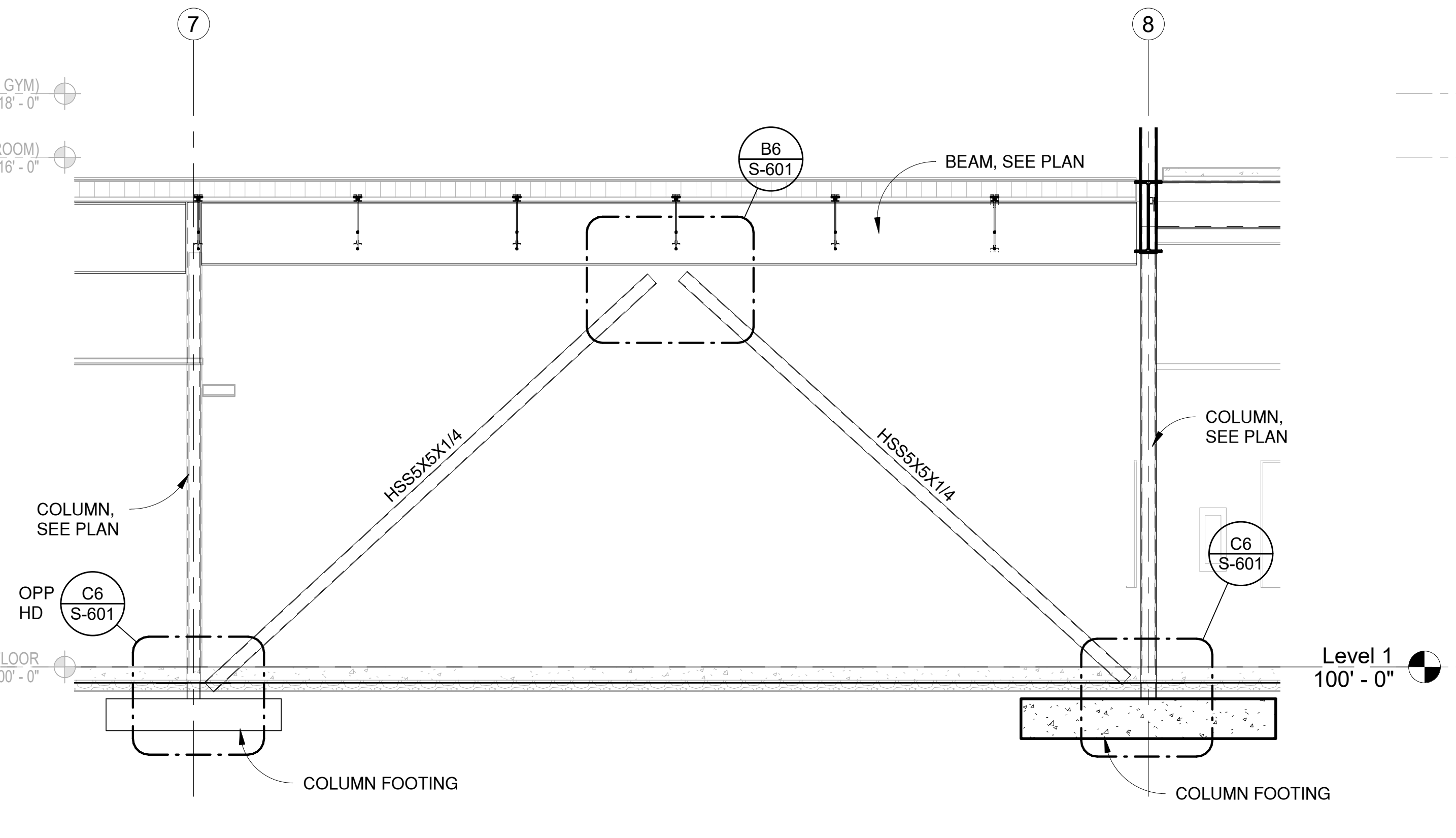
SHEET TITLE
FOUNDATION DETAILS

S-501

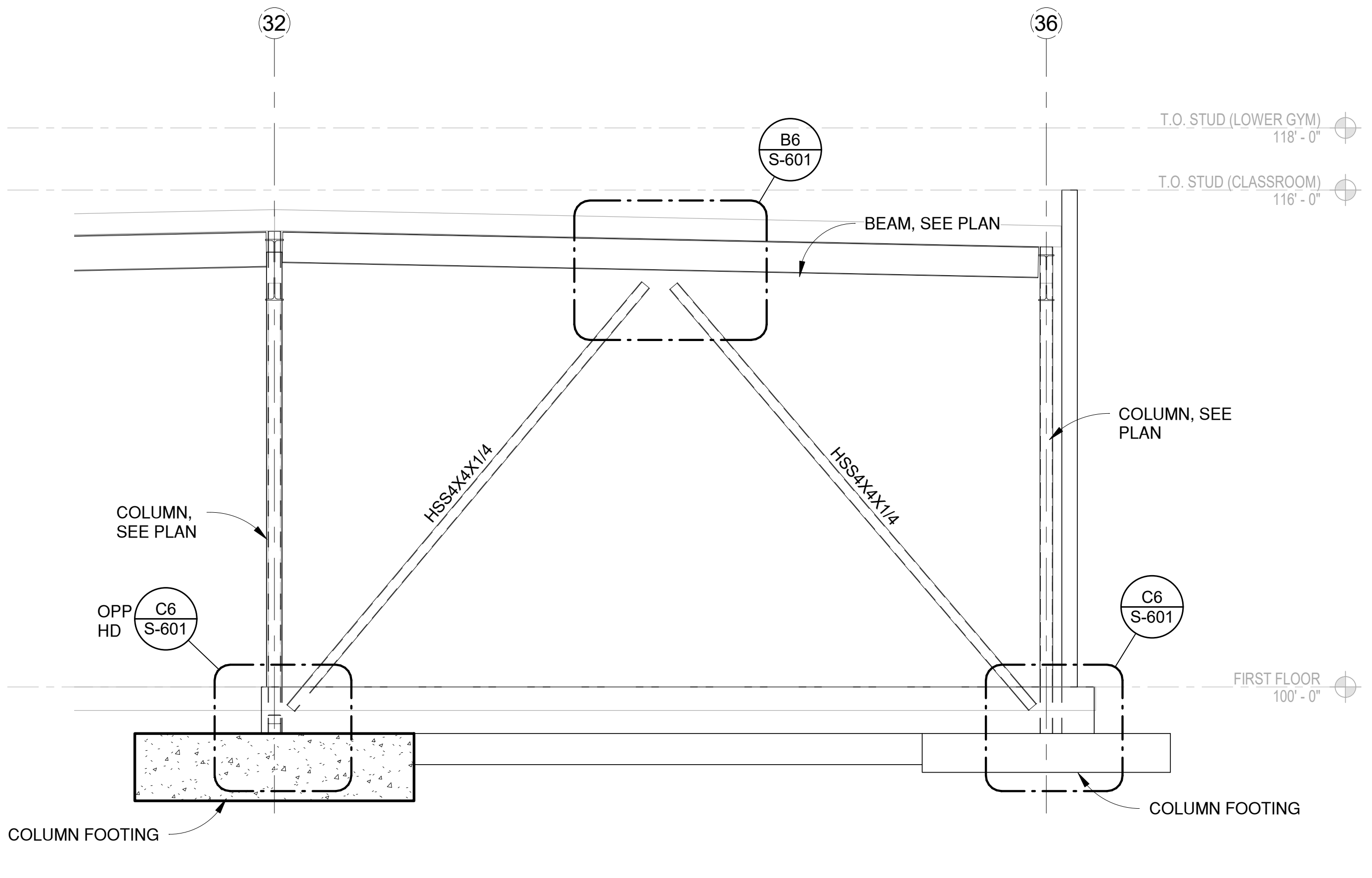
School Information



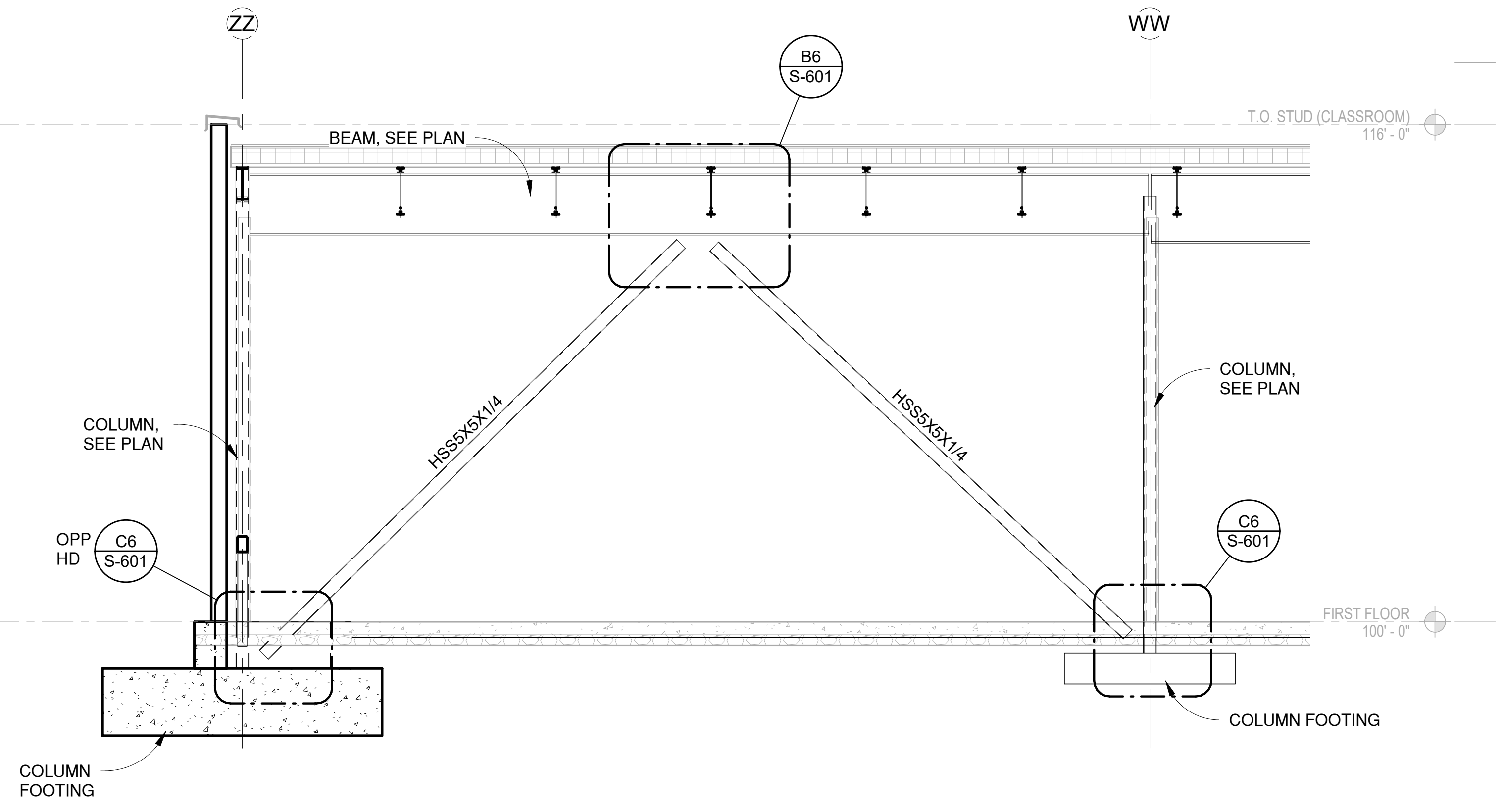
E1 BRACED FRAME 1
1/4" = 1'-0"



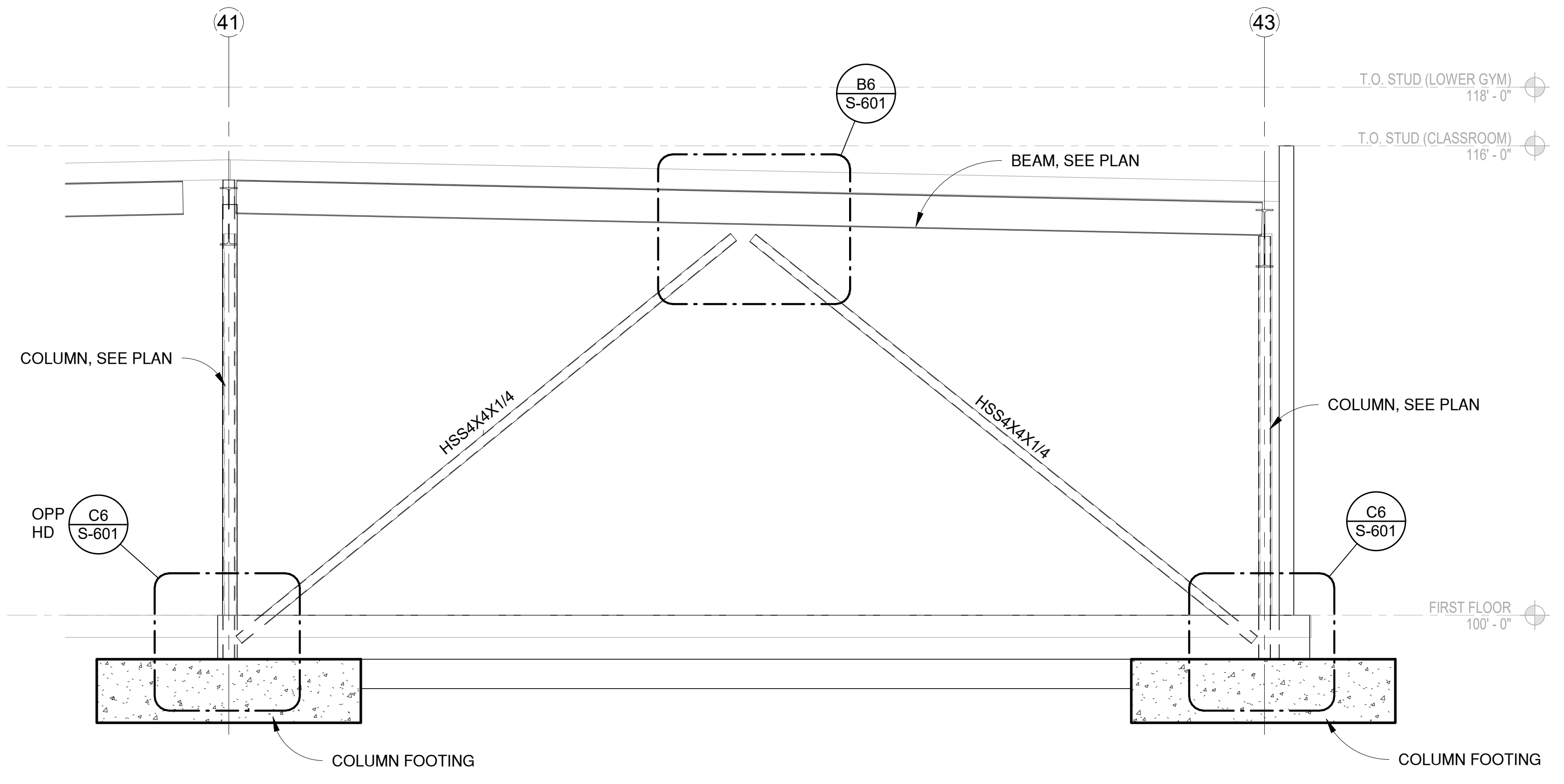
E4 BRACED FRAME 2
1/4" = 1'-0"



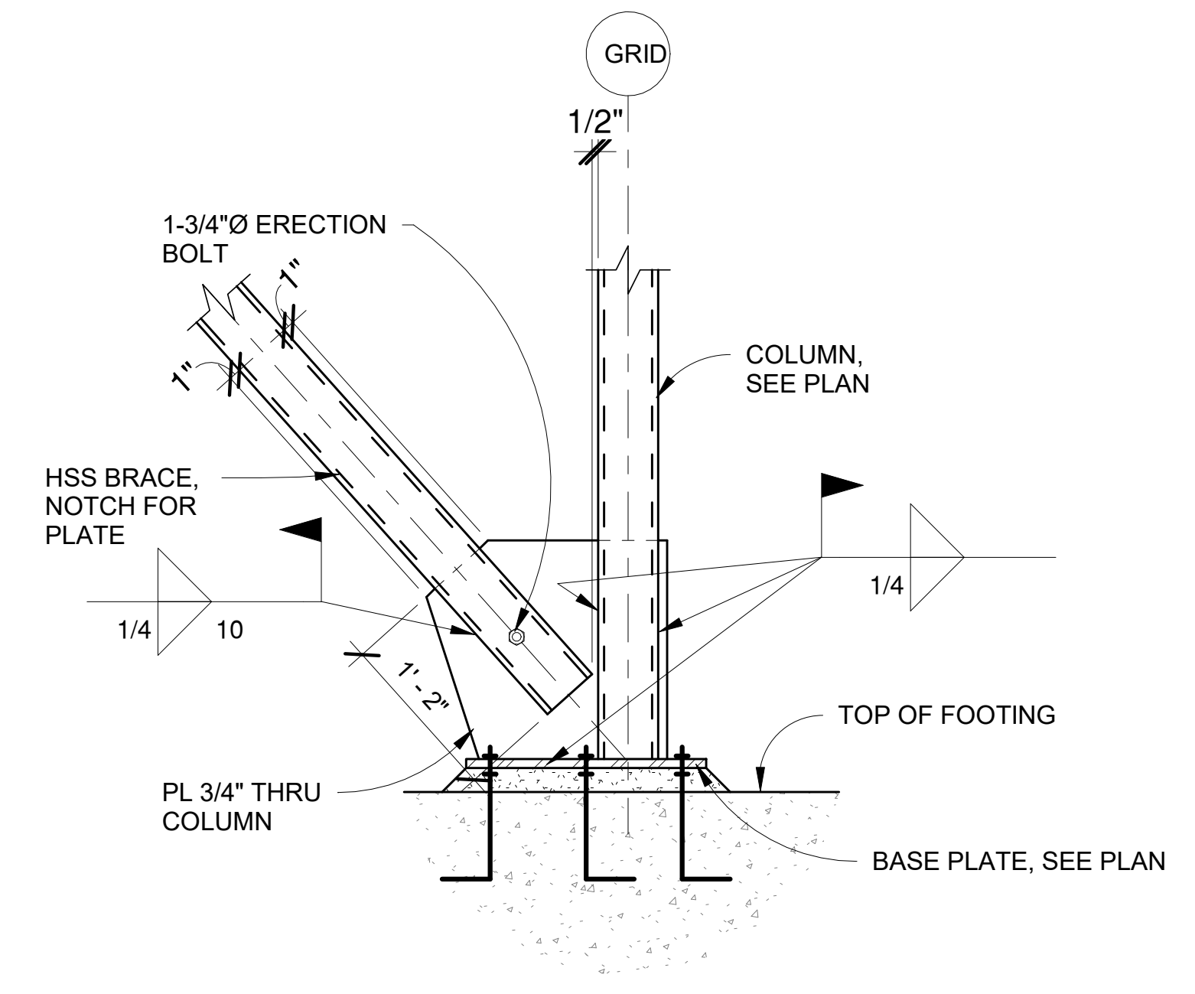
E6 BRACED FRAME 3
1/4" = 1'-0"



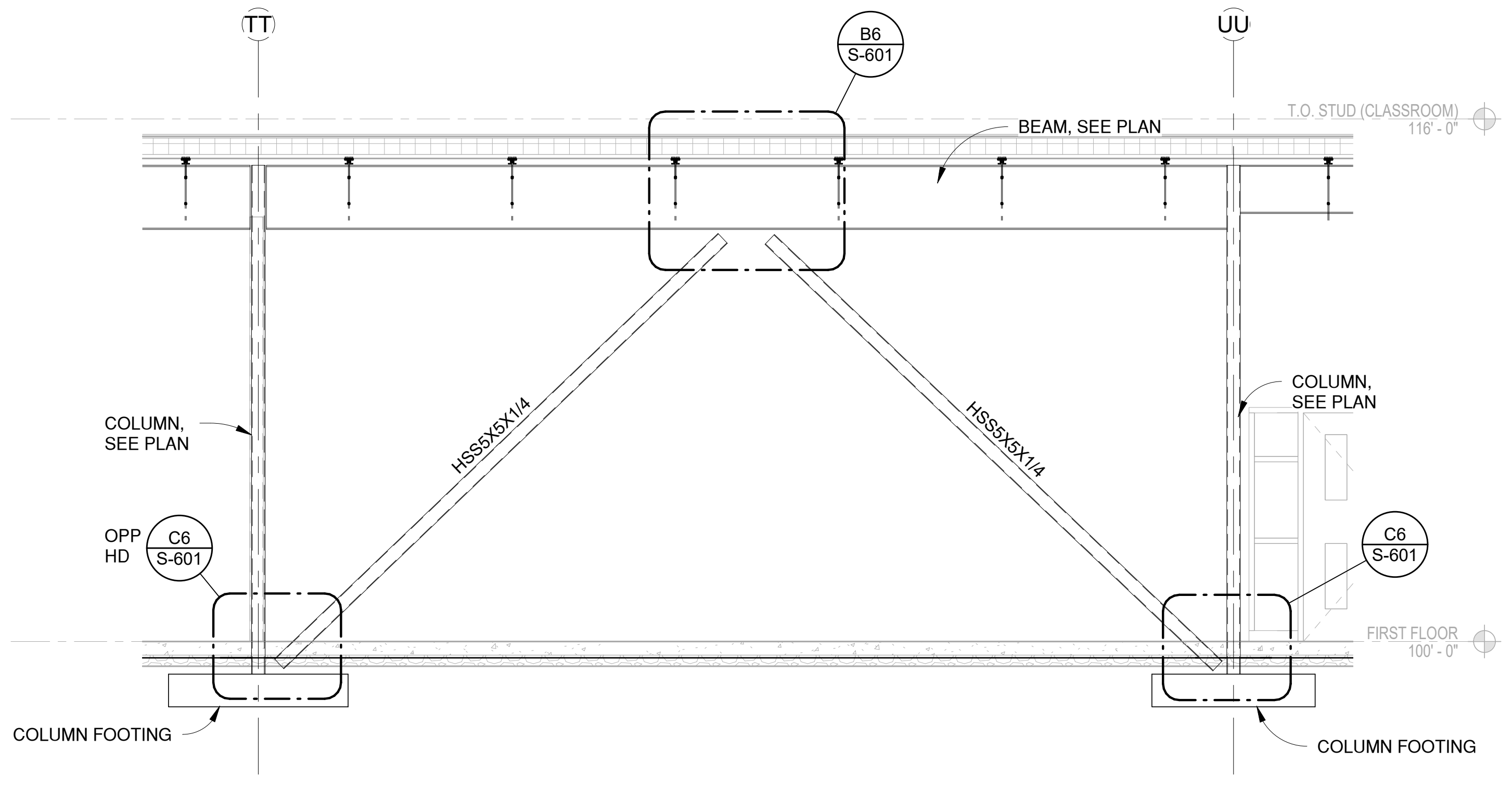
C1 BRACED FRAME 4
1/4" = 1'-0"



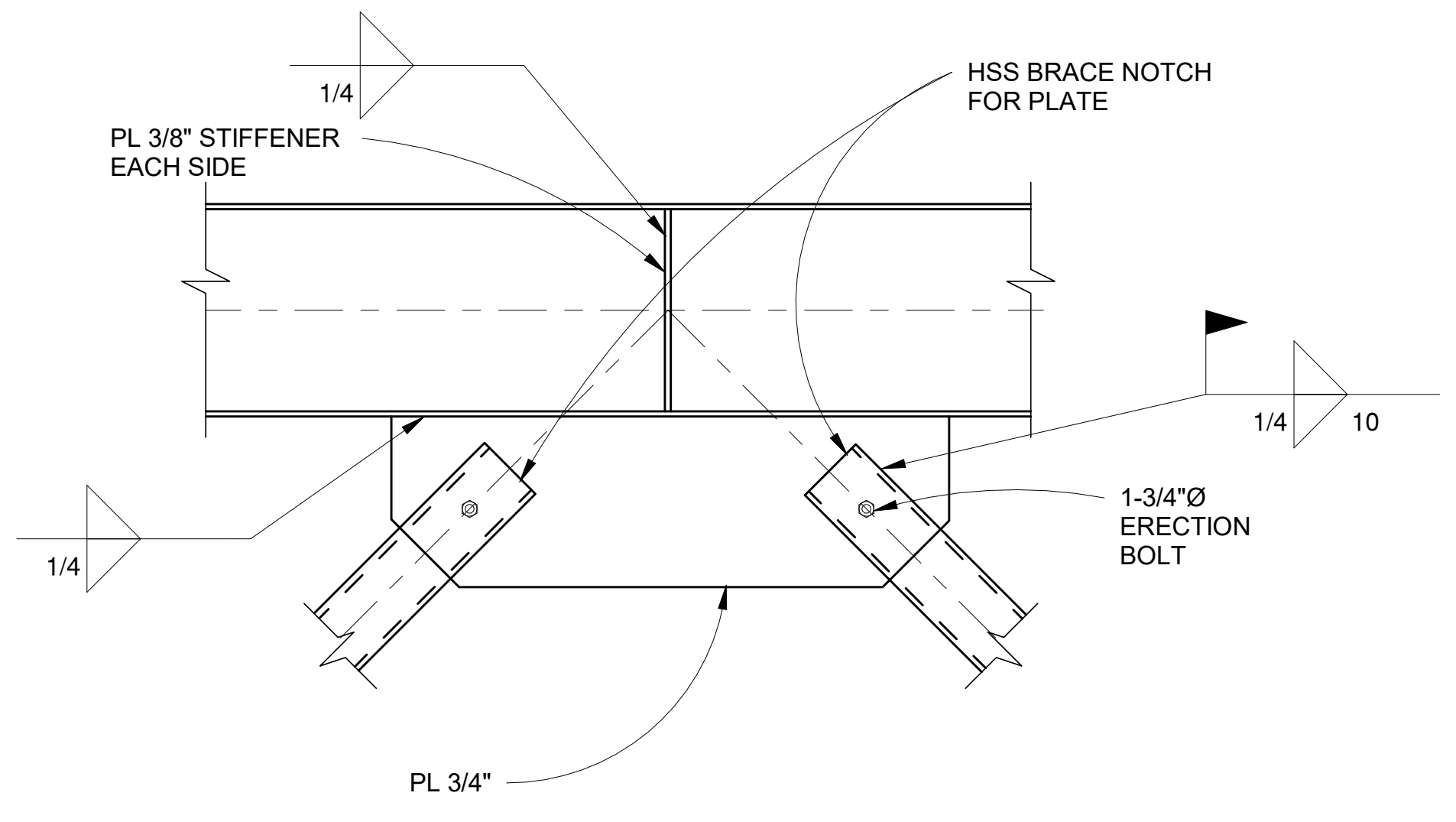
C4 BRACED FRAME 5
1/4" = 1'-0"



C6 BRACED FRAME DETAIL
3/4" = 1'-0"



B1 BRACED FRAME 6
1/4" = 1'-0"



B6 BRACED FRAME DETAIL
3/4" = 1'-0"

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
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CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
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**Dzilth-Na-O-Dith-Hle -**
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**FOUNDATION SET**

35 Road 7585, Bloomfield, NM
87413

AUGUST 21, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

BRACED FRAME ELEVATIONS & DETAILS

S-601

School Information

8/21/2020 11:29:13 AM

## GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
NFPA 5000, 2018 EDITION.
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10,
AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS
SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION
AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
AWS D1.1 AND D1.3

2. DESIGN CRITERIA:
A. VERTICAL:
LIVE LOAD
ROOF (SNOW) 25 PSF + DRIFTS

Is (IMPORTANCE FACTOR FOR SNOW) 1.1
* LOAD HAS NOT BEEN REDUCED

B. HORIZONTAL LOADS:
(1) WIND*
PROCEDURE PER SECTION 1609

P = WIND PRESSURE x $\lambda$ Iw

| | |
|---|---|
| WIND SPEED | V3s=90 MPH |
| WIND PRESSURE : END ZONE | 12.8 PSF |
| INTERIOR ZONE | 8.5 PSF |

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT FROM FIGURE 6-2 IN ASCE
IMPORTANCE FACTOR Iw = 1.15

| HORIZONTAL WIND LOAD: | END | INTERIOR |
|---|---|---|
| | 19.6 PSF | 13.0 PSF |

(2) SEISMIC* V = Sds Ie W/ R

| | |
|---|---|
| SPECTRAL ACCELERATIONS | Ss=0.147 |
| | S1=0.057 |
| SITE CLASS | D |
| IMPORTANCE FACTOR | Ie = 1.25 |
| DESIGN SPECTRAL RESPONSE | Sds = 0.157 |
| ONE SECOND PERIOD RESPONSE ACCEL. | Sd1 = 0.091 |
| RESPONSE MODIFICATION COEFFICIENT | R = 3.25 |
| SEISMIC DESIGN CATEGORY | D |
| SEISMIC FORCE | V = 0.06 X W |

* ALLOWABLE 1/3 STRESS INCREASE FOR SEISMIC LOADING
C. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF

3. GENERAL:
A. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY .
B. SHOP DRAWINGS, IN HARD COPY FORM, SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED.
C. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND REQUIRE RESUBMITTAL.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
E. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
F. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
G. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
H. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
I. REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:
A. CAST-IN-PLACE CONCRETE:
(1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.
(2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
(3) NORMALWEIGHT CONCRETE:
A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
B. F'C = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (AIR ENTRAINED) IE. , FOOTINGS, PEDESTALS, STEM WALLS, ETC.)
C. F'C = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.
D. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL WALLS.
(4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.
(5) FLYASH ADDITIVES MAY NOT EXCEED 20% OF THE CEMENTITIOUS MATERIAL.
(6) THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, MAY NOT EXCEED 50%.
(7) THE OWNER'S SPECIAL INSPECTOR SHALL MONITOR SAMPLING & TESTING PERFORMED BY THE CONTRACTOR'S TESTING AGENCY.
(8) MAXIMUM SLUMP FOR CONCRETE MIX DESIGN IS 4".
B. REINFORCING STEEL:
(1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315-99).
(2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
(3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
(4) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
A. VERTICAL REINFORCING:30 BAR DIA. (18" MINIMUM)
B. HORIZONTAL REINFORCING:30 BAR DIA. (18" MINIMUM)
(5) ALL HORIZONTAL REINFORCING IN FOOTINGS, BEAMS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS, (18 INCHES MINIMUM).
(6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
1. BARS LARGER THAN NO. 5........................2"
2. BARS NO. 5 OR SMALLER........................1 1/2"
(7) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
(8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
(9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS. IF DRAWINGS SHOW REBAR TO BE WELDED, USE ASTM A706 REBAR.

C. STRUCTURAL AND MISCELLANEOUS STEEL:
(1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
(2) ALL W-SHAPED MEMBERS SHALL CONFORM TO ASTM A992 (Fy=50KSI). ALL CHANNELS, ANGLES, & PLATES SHALL BE ASTM A36 (Fy=36KSI). ALL PIPE STEEL SHALL BE ASTM A501 (Fy=36KSI).
(3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. FY = 46 KSI.
(4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
(5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
(6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
(7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
(8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
(9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PRE QUALIFICATION REQUIRED.

D. STEEL JOISTS:
(1) STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
(2) STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2002 STEEL JOIST INSTITUTE SPECIFICATIONS.
(3) NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
(4) WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
(5) PROVIDE BRIDGING IN ACCORDANCE WITH THE 42ND EDITION OF SJI STANDARD SPECIFICATIONS.

E. STEEL DECK:
(1) ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
(2) SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
(3) PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECKS.
(4) ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE AT SUPPORTS.
(5) DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
(6) POWER DRIVEN FASTENERS SHALL HAVE A MIN. 0.177 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.
(7) CONDUIT PARALLEL TO FLOOR DECK IN CONCRETE TOPPING IS PROHIBITED.

F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):
(1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007.
(2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" X 18 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
(3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
(4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
(5) ALL TRACK SHALL BE DEEP LEG (1 1/2" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANSION SLEEVE OR EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

5. POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERE'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL ADHESIVES AND MECHANICAL ANCHORS PER THE PRODUCT'S APPLICABLE ICC-ES EVALUATION REPORT (ICC-ES-ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099 OR HILTI AT (866) 445-8827.

A. CONCRETE ANCHORS:
1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 3552 AND ICC-ES ACI93 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
b. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)
2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR HILTI "HIT-RE 500-SD" (ICC-ES ESR-2322)

B. MASONRY ANCHORS:

1. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ACI06.
PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
1SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) OR HILTI "HUS-H" (ICC-ES ESR-2369)
2. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) OR HILTI "KWIK BOLT 3" (ICC-ES ESR-1385)
b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
1.SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) OR HILTI "HIT-HY 150" (ICC-ES ESR-2678
2.SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ESR-5791_ OR HILTI "HIT-HY 200 MAX" (ICC-ES ESR-1967)

6. QUALITY ASSURANCE TESTS AND INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:
A. CONCRETE:
(1) DURING THE TAKING ON TEST SPECIMENS.
(2) DURING THE PLACEMENT OF ALL REINFORCED CONCRETE.
B. BOLTS IN CONCRETE:
(1) DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
C. REINFORCING STEEL (PERIODIC):
(1) DURING THE PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
D. WELDING:
(1) VISUAL INSPECTION OF ALL FIELD WELDS.
(2) NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
E. HIGH STRENGTH BOLTING:
(1) VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR A325N BOLTS.
(2) VERIFICATION OF SLIP CRITICAL (SC) BOLTS AT ALL BRACED FRAMES.
F. EXPANSION AND EPOXY BOLTS:
(1) DURING THE PLACEMENT OF ALL EXPANSION AND EPOXY BOLTS, FOR VISUAL VERIFICATION OF HOLE DIAMETER AND DEPTH AND PLACEMENT OF BOLT AND/OR EPOXY.
G. DUTIES AND RESPONSIBILITIES OF THE QUALITY ASSURANCE INSPECTOR:
(1) THE QUALITY ASSURANCE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
(2) THE QUALITY ASSURANCE INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD.
H. QUALITY ASSURANCE INSPECTOR IS TO BE HIRED BY OWNER, NOT CONTRACTOR.

## GENERAL FOUNDATION NOTES

1. GENERAL:
A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY WESTERN TECHNOLOGIES. A REPORT OF THAT INVESTIGATION DATED MAY 18, 2020 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT. SOILS INFORMATION PROVIDED ON THIS SHEET IS ONLY A SUMMARY OF THAT REPORT.
B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

2. FIELD OBSERVATION AND TESTS:
A. THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK AND SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK .
B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
(1) ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
(2) ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
(3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
(4) FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.
C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. CLEARING AND GRUBBING:
A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.
B REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/ OR FOOTINGS ARE TO BE CONSTRUCTED
C REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
B. BUILDING PADS SHOULD BE OVEREXCAVATED TO ALLOW THE PLACEMENT OF A MINIMUM 30 INCHES OF NON-EXPANSIVE STRUCTURAL FILL BENEATH FOUNDATIONS. THE OVER-EXCAVATION SHALL NOT EXTEND LATERALLY BEYOND THE EDGE OF THE FOUNDATIONS.
C. ON-SITE SOILS ARE GENERALLY SUITABLE FOR USE AS STRUCTURAL FILL MATERIAL, SEE SOIL INVESTIGATION REPORT FOR RECOMMENDATIONS.
D. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO 0 TO 4% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

5. STRUCTURAL FILL REQUIREMENTS:
A. GRADATION (ASTM C136):

| SIEVE SIZE | PERCENT PASSING BY WEIGHT |
|---|---|
| 3/4" | 70-100 |
| 4" | 85-100 |
| 6" | 100 |
| NO. 4 | 50-100 |
| NO. 200 | 30 (MAX) |

B. MAXIMUM EXPANSIVE POTENTIAL = 1.5%.
C. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.
E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

6. COMPACTION REQUIREMENTS:
A. STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%).

| MATERIAL | MINIMUM PERCENT COMPACTION |
|---|---|
| STRUCTURAL FILL IN THE BUILDING AREA | 95 |
| SUBBASE FOR SLAB SUPPORT | 93 TO 97 |
| SUBGRADE BELOW STRUCTURAL FILL | 93 TO 97 |
| MISCELLANEOUS BACKFILL | 90 |

### LIGHTGAGE SCHEDULE

| DEPTH | GAGE | AREA IN | Ix IN4 | Sx IN3 | Fy KSI |
|---|---|---|---|---|---|
| C 4" | 20 | 0.275 | 0.692 | 0.346 | 33 |
| C 4" | 18 | 0.357 | 0.892 | 0.446 | 33 |
| C 6" | 18 | 0.447 | 2.316 | 0.772 | 33 |
| C 8" | 18 | 0.537 | 4.634 | 1.159 | 33 |
| T 4" | 20 | 0.225 | 0.549 | 0.346 | 33 |
| T 4" | 18 | 0.315 | 0.811 | 0.390 | 33 |
| T 6" | 18 | 0.405 | 2.072 | 0.673 | 33 |
| T 8" | 18 | 0.496 | 4.144 | 1.015 | 33 |

"C" INDICATES STUD, 1 5/8" FLANGES
"T" INDICATES DEEP LEG TRACK, 1 1/2" FLANGES

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New Dormitory Building**
**Foundation Set**

35 Road 7585, Bloomfield, NM
87413

AUGUST 10, 2020

| MARK | DATE | DESCRIPTION |
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| ISSUE: | |
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| PROJECT NO: | 751 |
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| CHECKED BY: | MJW |

SHEET TITLE
GENERAL STRUCTURAL NOTES

S-001

# SCHEDULE OF STRUCTURAL QUALITY ASSURANCE INSPECTIONS

1. QUALITY ASSURANCE INSPECTIONS / TESTING - "QUALITY ASSURANCE INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC.
2. REPORTING FOR QUALITY ASSURANCE INSPECTION - QUALITY ASSURANCE INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. QUALITY ASSURANCE INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL QUALITY ASSURANCE INSPECTION ITEMS.

IN ACCORDANCE WITH NFPA 5000 CHAPTER 40, THE FOLLOWING TYPES OF WORK REQUIRE QUALITY ASSURANCE INSPECTIONS AND TESTING:

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF SOILS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC REFERENCE |
|---|---|---|---|---|
| Y | 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | ----- | X | 1705.6 |
| Y | 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | ----- | X | 1705.6 |
| Y | 3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. | ----- | X | 1705.6 |
| Y | 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. | X | ----- | 1705.6 |
| Y | 5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | ----- | X | 1705.6 |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| Y | 1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT. | ----- | X | 1908.4 | ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3 |
| N | 2. REINFORCING BAR WELDING:<br>a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706, | ----- | X | ----- | AWS D1.4<br>ACI 318: 26.6.4 |
| N | b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $^5/_{16}$", AND | | X | | |
| N | c. INSPECT ALL OTHER WELDS. | X | | | |
| Y | 3. INSPECT ANCHORS CAST IN CONCRETE. | ----- | X | ----- | ACI 318: 17.8.2 |
| Y | 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.<br>a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | | ----- | ACI 318: 17.8.2.4 |
| | b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. | | X | | ACI 318: 17.8.2 |
| Y | 5. VERIFYING USE OF REQUIRED DESIGN MIX. | ----- | X | 1904.1, 1904.2, 1908.2, 1908.3 | ACI 318: CH. 19, 26.4.3, 26.4.4 |
| Y | 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | ----- | 1908.10 | ASTM C172<br>ASTM C31<br>ACI 318: 26.4, 26.12 |
| Y | 7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | ----- | 1908.6, 1908.7 1908.8 | ACI 318: 26.5 |
| Y | 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | ----- | X | 1908.9 | ACI 318: 26.5.3 -26.5.5 |
| N | 9. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | ----- | X | ----- | ACI 318: 26.8 |
| N | 10. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | ----- | X | ----- | ACI 318: 26.11.2 |
| Y | 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | ----- | X | ----- | ACI 318: 26.11.1.2(b) |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | |
|---|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION | REFERENCED STANDARD |
| | 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | X | ----- | APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360 SECTION A3.3 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | X | ----- | ----- |
| | 2. INSPECTION OF HIGH-STRENGTH BOLTING: | | | | |
| Y | a. SNUG-TIGHT JOINTS | ----- | X | 1705.2.1 | AISC 360, SECTION M2.5 |
| Y | b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION | ----- | X | | |
| Y | c. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION | X | ----- | | |
| | 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | | |
| Y | a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 | ----- | X | | AISC 360 SECTION M5.5 |
| Y | b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS | ----- | X | | APPLICABLE ASTM MATERIAL STANDARDS |
| Y | c. MANUFACTURERS CERTIFIED TEST REPORTS | ----- | X | | |
| | 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | | | | |
| Y | a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | ----- | ----- | ----- | AISC 360, SECTION A3.5 |
| Y | b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | ----- | ----- | ----- | ----- |
| | 5. INSPECTION OF WELDING:<br>a. STRUCTURAL STEEL : | | | | |
| Y | 1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. | X | ----- | 1705.2 | AWS D1.1 |
| N | 2) MULTIPASS FILLET WELDS. | X | ----- | | |
| N | 3) SINGLE-PASS FILLET WELDS > 5/16" | X | ----- | | |
| Y | 4) PLUG & SLOT WELDS | X | ----- | | |
| Y | 5) SINGLE-PASS FILLET WELDS < 5/16" | ----- | X | | |
| N | 6) ROOF DECK WELDS. | ----- | X | ----- | AWS D1.3 |
| N | b. REINFORCING STEEL: | ----- | ----- | ----- | AWS D1.4<br>ACI 318 3.5.2 |
| N | 1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. | ----- | X | | |
| N | 2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 3) SHEAR REINFORCEMENT. | X | ----- | | |
| Y | 4) OTHER REINFORCING STEEL. | ----- | X | | |
| | 6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: | | | | |
| N | a. DETAILS SUCH AS BRACING AND STIFFENING. | ----- | X | 1705.1.1 | ----- |
| Y | b. MEMBER LOCATIONS. | ----- | X | | |
| Y | c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. | ----- | X | | |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL DECK CONSTRUCTION

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION 1705.2.2 |
| Y | VERIFY DECK MATERIALS AND MILL CERTIFICATIONS | ----- | X | SDI-QA/QC |
| Y | VERIFY FIELD WELDING OF DECK | ----- | X | AWS D1.3, SDI C, SDI NC, SDI RD |
| Y | VERIFY MECHANICAL FASTENERS | ----- | | SDI C, SDI NC, SDI RD |
| Y | VERIFY STEEL DECK INSTALLATION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS | | | SDI C, SDI NC, SDI RD |

## REQUIRED QUALITY ASSURANCE INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. | | | |
| Y | a. END CONNECTIONS - WELDED OR BOLTED. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| | b. BRIDGING - HORIZONTAL OR DIAGONAL. | ----- | | |
| Y | 1. STANDARD BRIDGING. | ----- | X | SJI SPECIFICATIONS LISTED IN SECTION 2207.1 |
| Y | 2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1. | | X | |

## QUALITY ASSURANCE INSPECTION OF SEISMIC FORCE RESISTING SYSTEMS (REQUIRED WHEN SDC = C, D, E OR F) AND DESIGNATED SEISMIC SYSTEMS (REQUIRED WHEN SDC=D,E OR F)

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| | 1. STRUCTURAL STEEL: | | | |
| Y | a. STRUCTURAL WELDING REQUIRED BY AISC 341 | X | ----- | 1705.2.1 |
| | 2. STRUCTURAL WOOD: | | | |
| Y | a. FIELD GLUING OPERATIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM. | X | ----- | 1705.11.1 |
| Y | b. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS. (ENGINEERS NOTE: SEE SECTIONS 1707.3 & 1705.3 EXCEPTION.) | ----- | X | 1705.11.1 |
| | 3. COLD - FORMED STEEL FRAMING: | | | |
| Y | a. WELDING OF ELEMENTS IN SEISMIC-FORCE RESISTANCE | ----- | X | 1705.12.1.2 |
| Y | b. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM. | ----- | X | 1705.12.1.2 |
| Y | 4. ANCHORAGE. | ----- | X | 1705.12.7 |

## QUALITY ASSURANCE INSPECTION AND VERIFICATION OF COLD FORMED METAL FRAMING

| SPECIAL INSPECTION REQUIRED Y/N | VERIFICATION AND INSPECTION TASK | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA |
|---|---|---|---|---|
| | | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED | IBC SECTION |
| Y | 1. SEATING OF STUDS IN TRACK. | ----- | X | ----- |
| Y | 2. WELDING OF ELEMENTS. | ----- | X | 1705.12.3 |
| Y | 3. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS. | ----- | X | 1705.12.3 |
| Y | 4. STEEL STUD BRIDGING SPACING AND END ATTACHMENT. | ----- | X | 1705.12.3 |
| Y | 5. WELDED CONNECTIONS ARE TOUCHED UP WITH PAINT. | ----- | X | 1705.12.3 |
| Y | 6. VERIFY STRUCTURAL STUD SIZE, DEPTH, AND GAGE. | ----- | X | 1705.12.3 |

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New Dormitory Building**
**Foundation Set**

35 Road 7585, Bloomfield, NM
87413

AUGUST 10, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

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| ISSUE: | |
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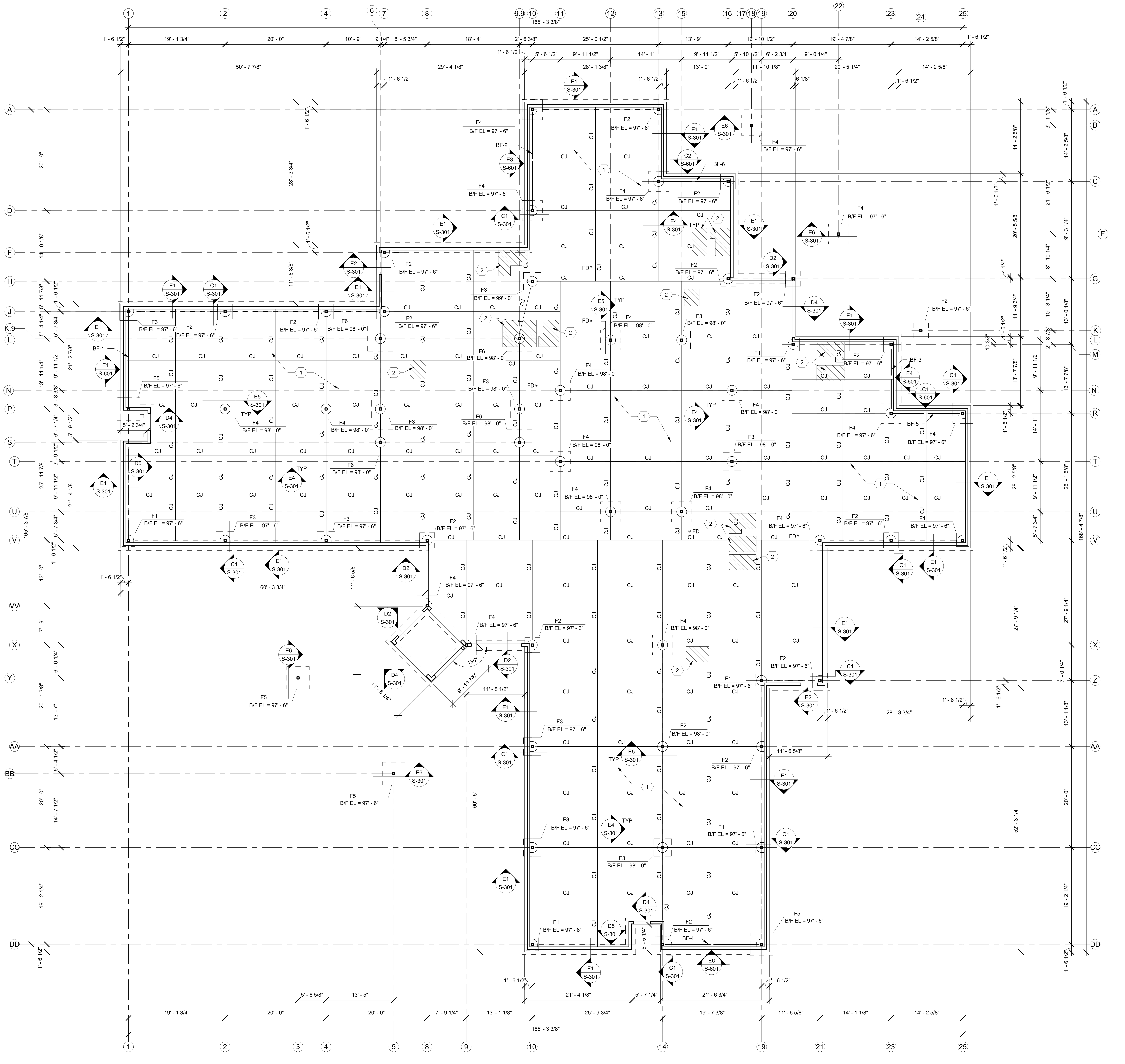
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

SHEET TITLE

STRUCTURAL QUALITY
ASSURANCE INSPECTIONS

S-002

School Information



PLAN NORTH

A1 FOUNDATION PLAN
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

D. BF-# INDICATES BRACED FRAME LOCATION, SEE SHEET S-601 FOR BRACED FRAME ELEVATIONS AND DETAILS.

F. FD ⊗ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 @ 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2", SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB PER C2/S-301.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F2 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F4 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F5 | 4' - 6" | 4' - 6" | 1' - 0" | (6) #5 EACH WAY |
| F6 | 5' - 0" | 5' - 0" | 1' - 0" | (5) #5 EACH WAY |

fbt | architects
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
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Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New Dormitory Building**
**Foundation Set**

35 Road 7585, Bloomfield, NM
87413

AUGUST 10, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | |
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

SHEET TITLE

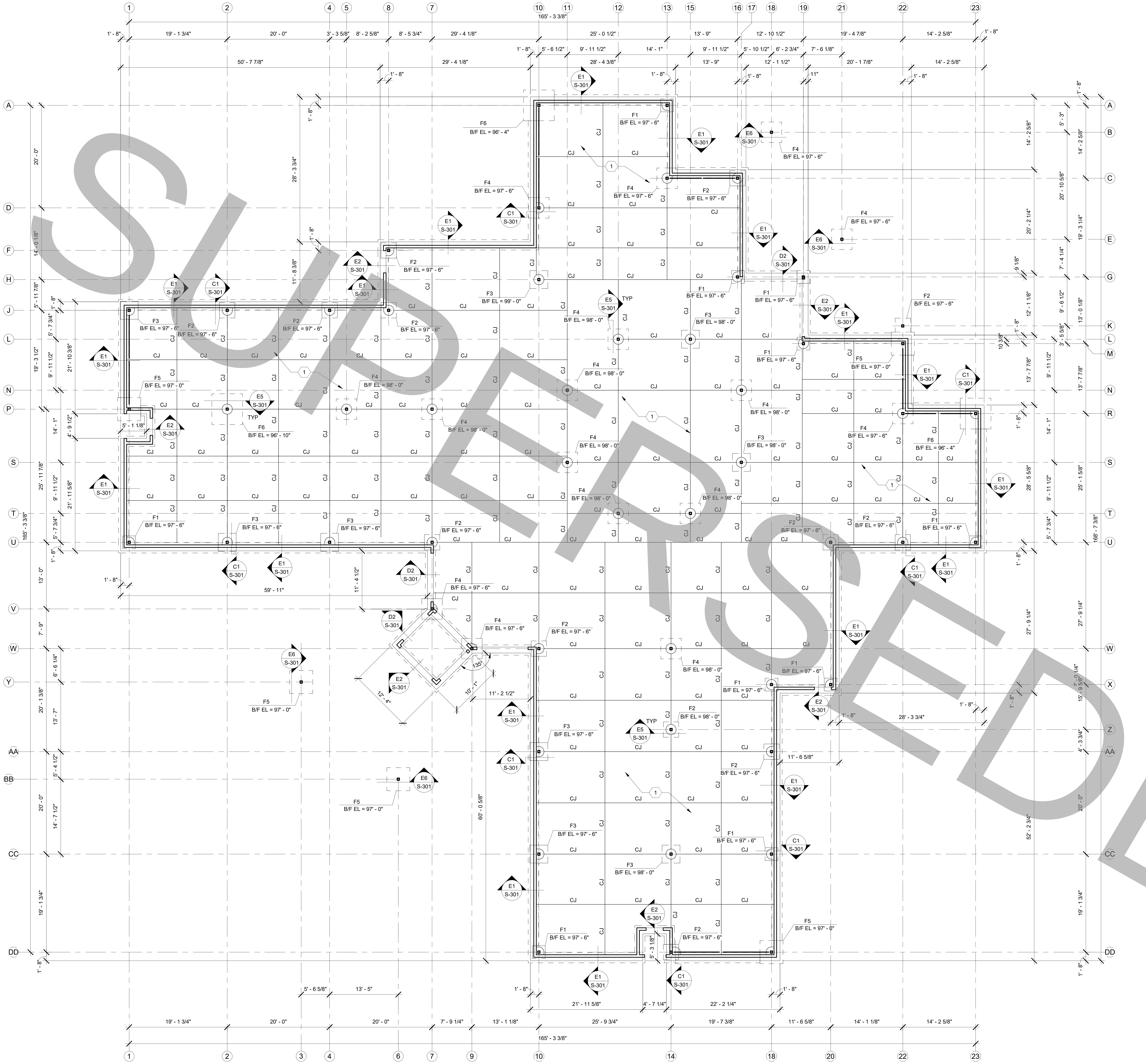
FOUNDATION PLAN

S-101

8/10/2020 9:36:08 AM

School Information

Dzilth-Na-O-Dith-Hle - New Dormitory Building



A1 FOUNDATION PLAN
1/8" = 1'-0"

## GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E3/S-301.

C. B/F EL = ##'-#" INDICATES BOTTOM OF FOOTING ELEVATION.

## KEYED NOTES ⬡

1 5" THICK CONCRETE SLAB W/ #4 @ 18" OC (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2" TOTAL, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB.

ISOLATED FOOTING SCHEDULE

| Mark | Length | Width | DEPTH | REINFORCING |
|---|---|---|---|---|
| F1 | 2' - 6" | 2' - 6" | 1' - 0" | (4) #4 EACH WAY |
| F2 | 3' - 0" | 3' - 0" | 1' - 0" | (4) #4 EACH WAY |
| F3 | 3' - 6" | 3' - 6" | 1' - 0" | (5) #4 EACH WAY |
| F4 | 4' - 0" | 4' - 0" | 1' - 0" | (6) #4 EACH WAY |
| F5 | 4' - 6" | 4' - 6" | 1' - 6" | (6) #5 EACH WAY |
| F6 | 6' - 0" | 6' - 0" | 2' - 2" | (6) #5 EACH WAY TOP & BOTTOM |

**fbt | architects**
MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

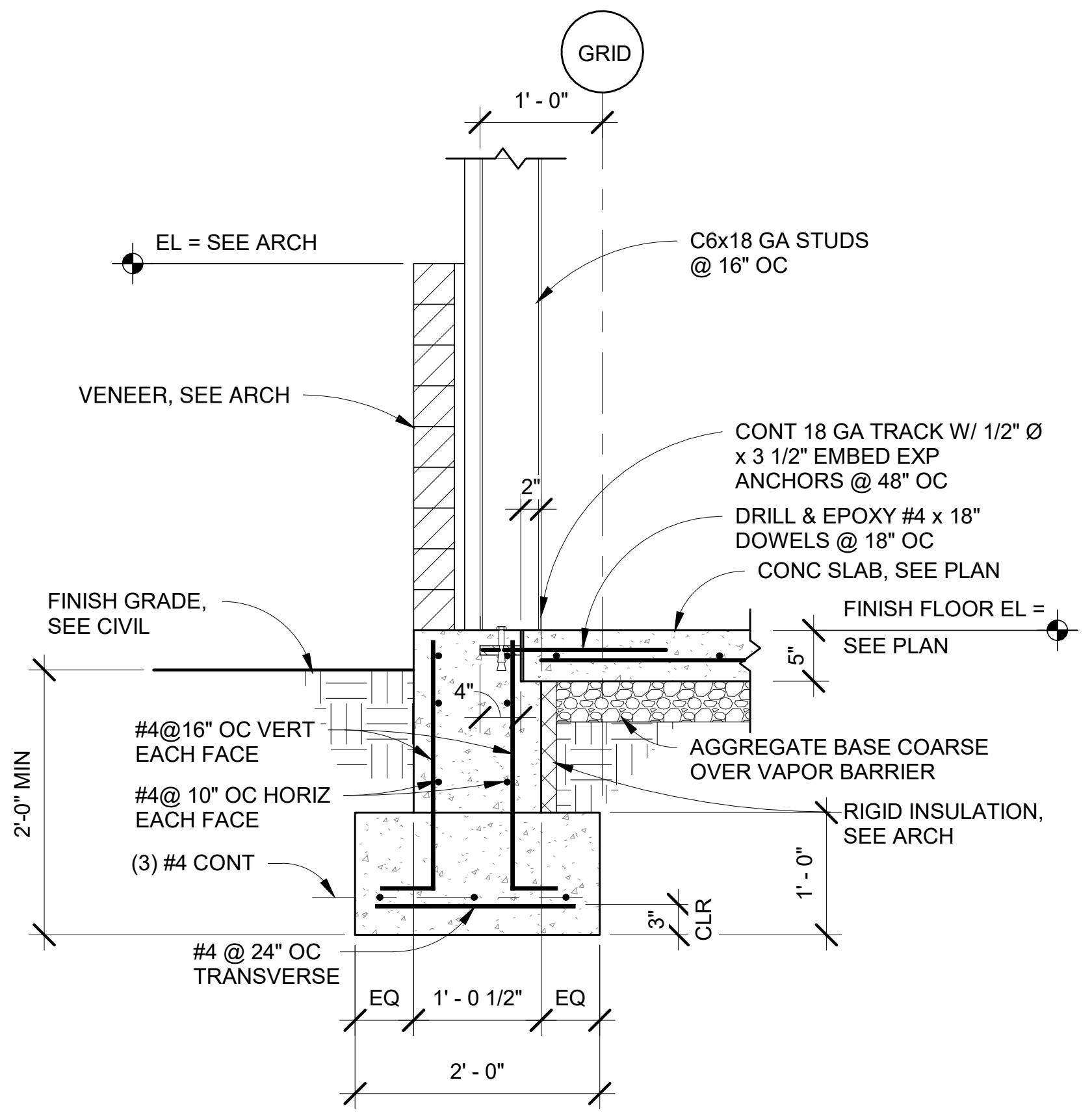
ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE
FOUNDATION PLAN
(DORM)

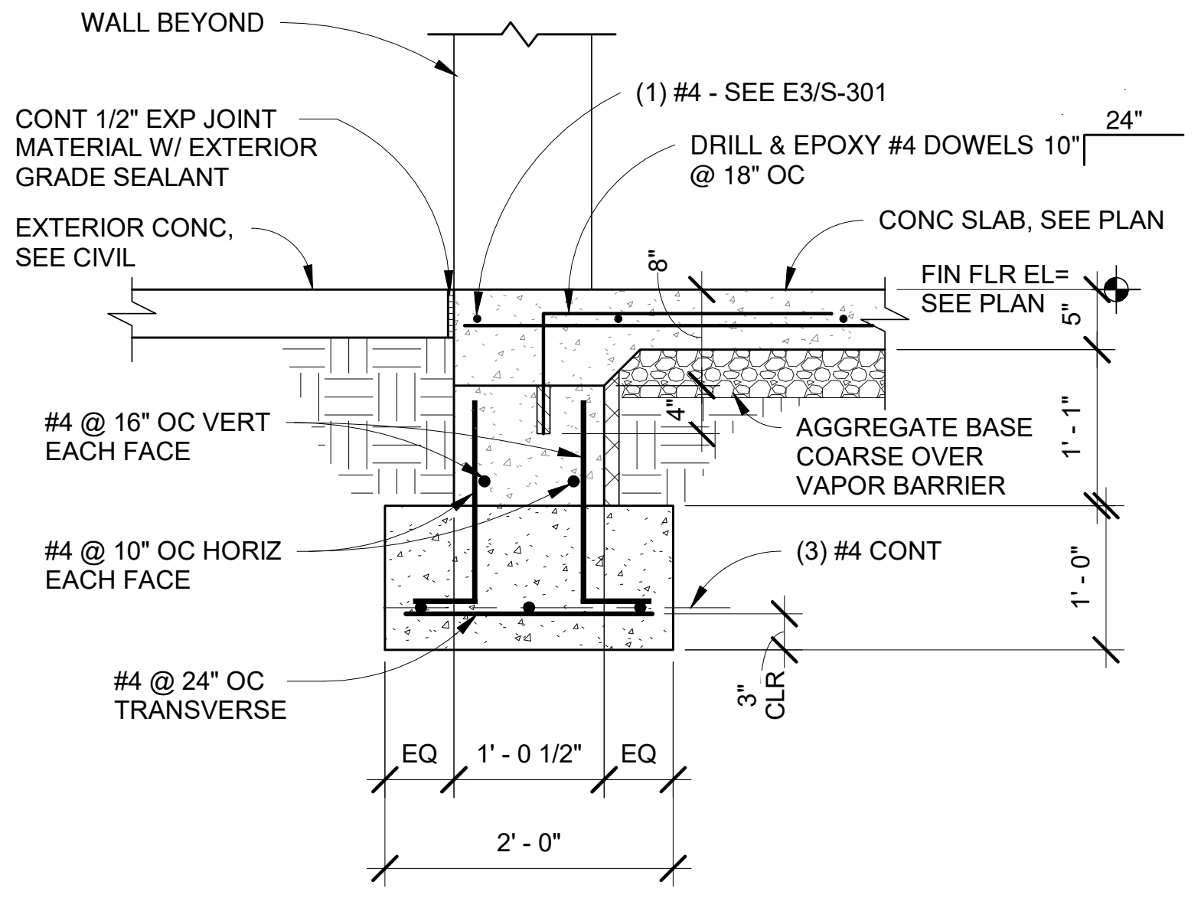
S-101(2)

School Information

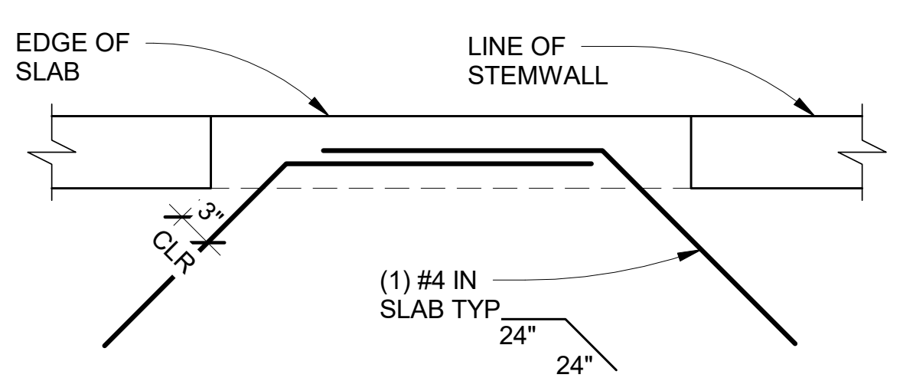
7/1/2020 4:12:15 PM


GRID
1' - 0"
EL = SEE ARCH
C6x18 GA STUDS @ 16" OC
VENEER, SEE ARCH
CONT 18 GA TRACK W/ 1/2" Ø x 3 1/2" EMBED EXP ANCHORS @ 48" OC
2"
DRILL & EPOXY #4 x 18" DOWELS @ 18" OC
CONC SLAB, SEE PLAN
FINISH GRADE, SEE CIVIL
FINISH FLOOR EL = SEE PLAN
5"
4"
#4@16" OC VERT EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4@ 10" OC HORIZ EACH FACE
RIGID INSULATION, SEE ARCH
2'-0" MIN
(3) #4 CONT
1' - 0"
3" CLR
#4 @ 24" OC TRANSVERSE
EQ
1' - 0 1/2"
EQ
2' - 0"

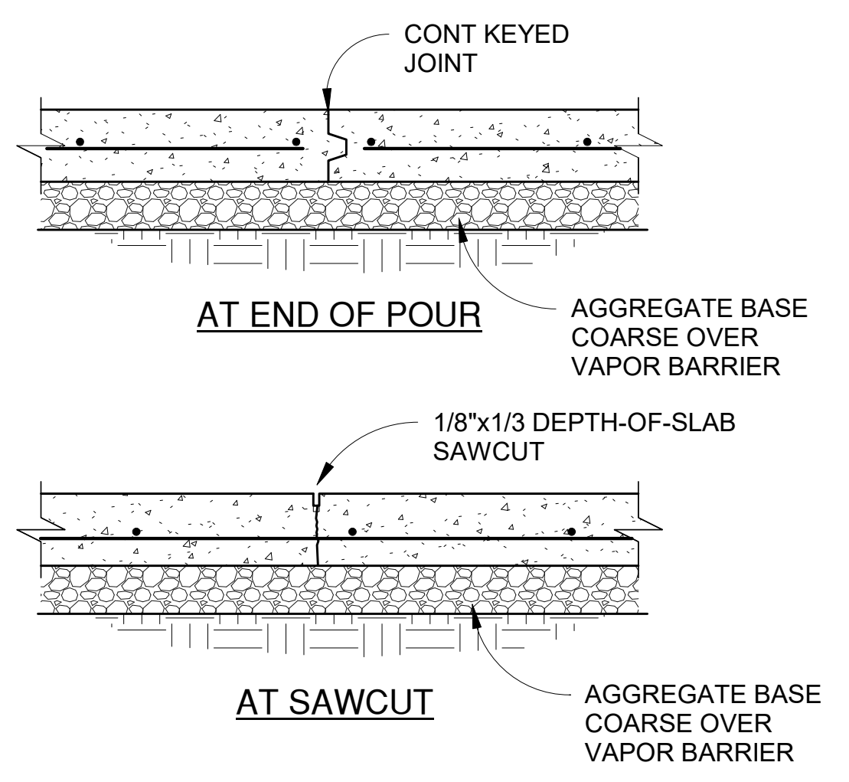
E1 SECTION
3/4" = 1'-0"


WALL BEYOND
(1) #4 - SEE E3/S-301
CONT 1/2" EXP JOINT MATERIAL W/ EXTERIOR GRADE SEALANT
DRILL & EPOXY #4 DOWELS 10" @ 18" OC
24"
EXTERIOR CONC, SEE CIVIL
CONC SLAB, SEE PLAN
FIN FLR EL= SEE PLAN
8"
5"
#4 @ 16" OC VERT EACH FACE
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1' - 1"
#4 @ 10" OC HORIZ EACH FACE
(3) #4 CONT
1' - 0"
#4 @ 24" OC TRANSVERSE
3" CLR
EQ
1' - 0 1/2"
EQ
2' - 0"

E2 SECTION
3/4" = 1'-0"



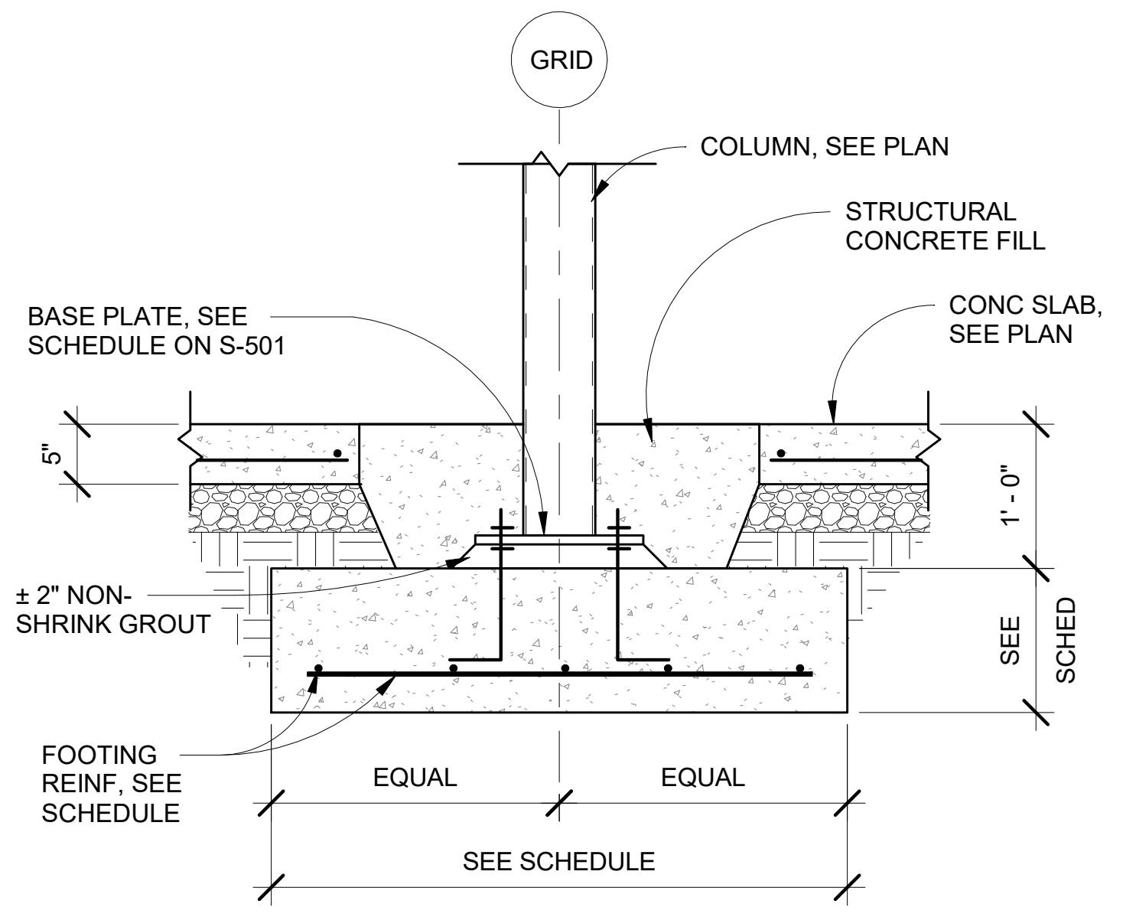
E3 TYP SLAB REINF AT DOOR OPENINGS


CONT KEYED JOINT
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1/8"x1/3 DEPTH-OF-SLAB SAWCUT
AGGREGATE BASE COARSE OVER VAPOR BARRIER

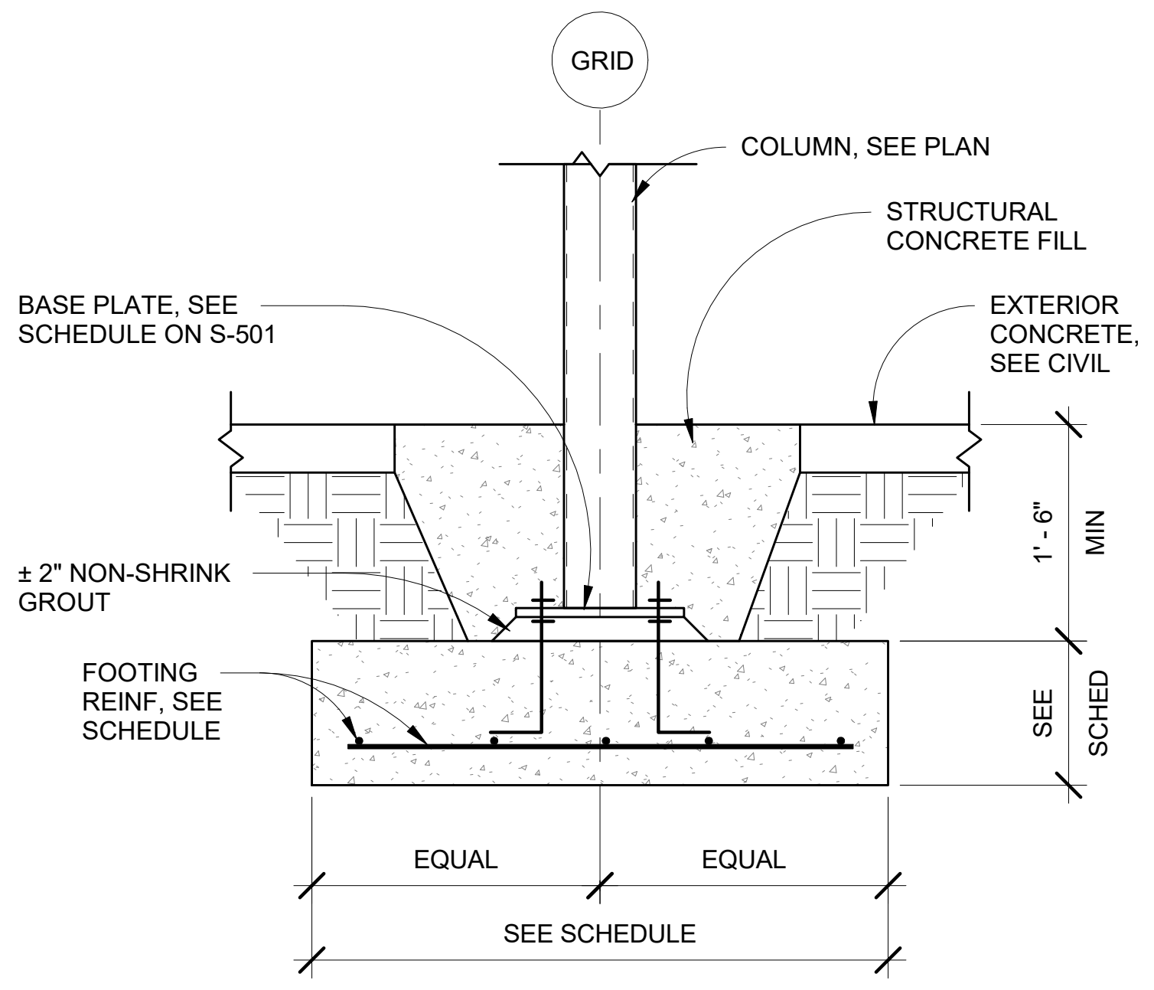
AT END OF POUR

AT SAWCUT

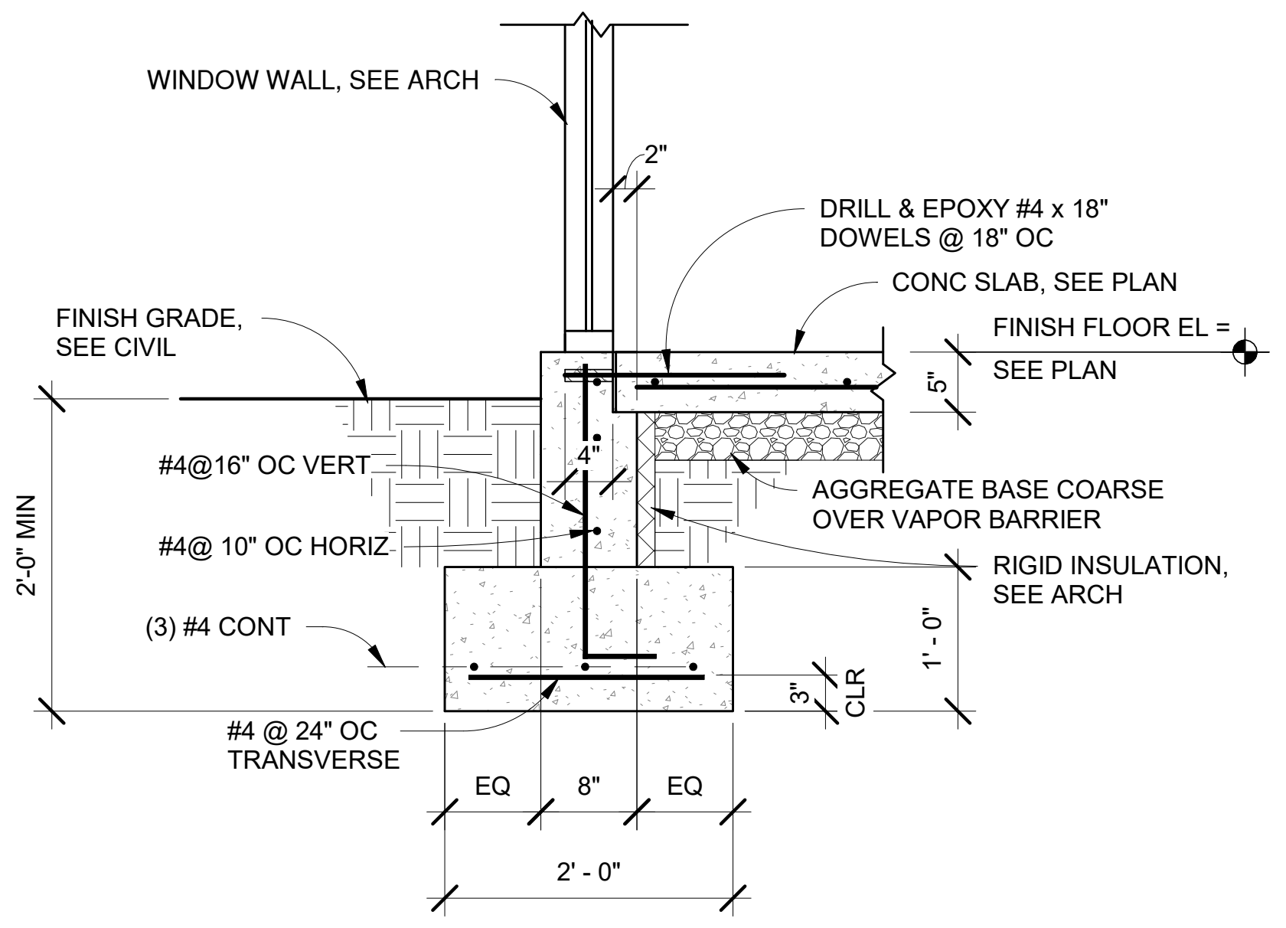
E4 TYP SLAB CONTROL JOINTS



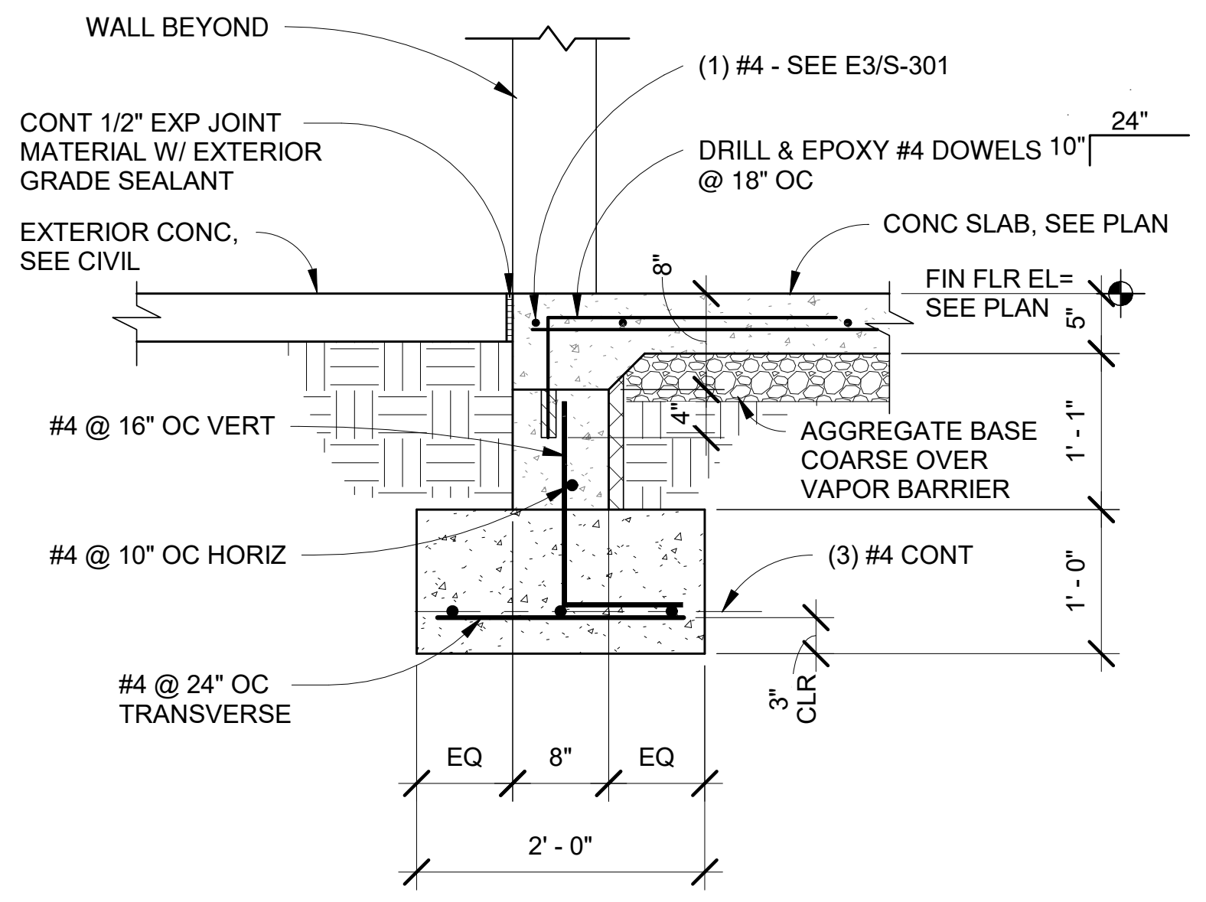
E5 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



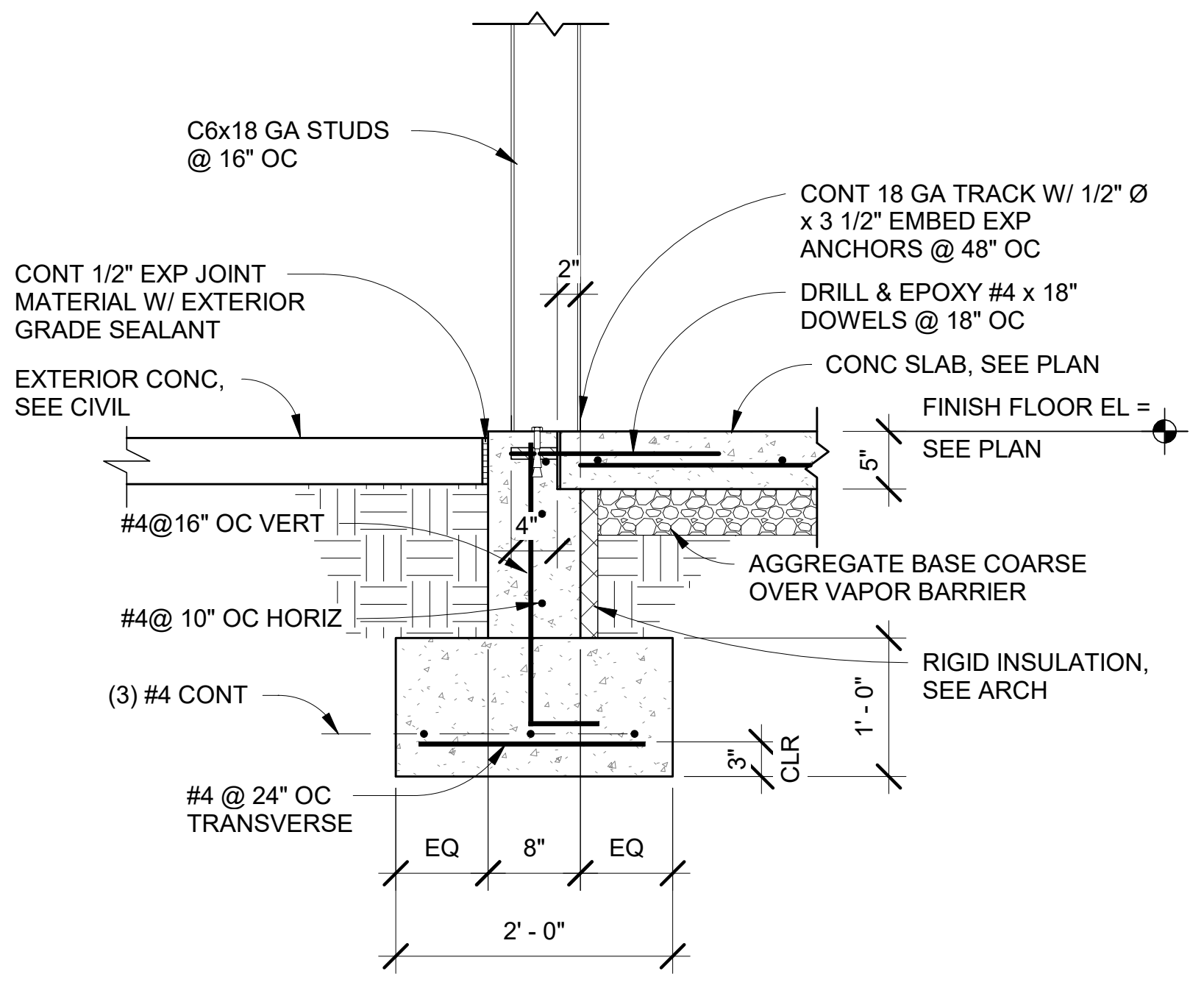
E6 TYPICAL EXTERIOR COLUMN
3/4" = 1'-0"



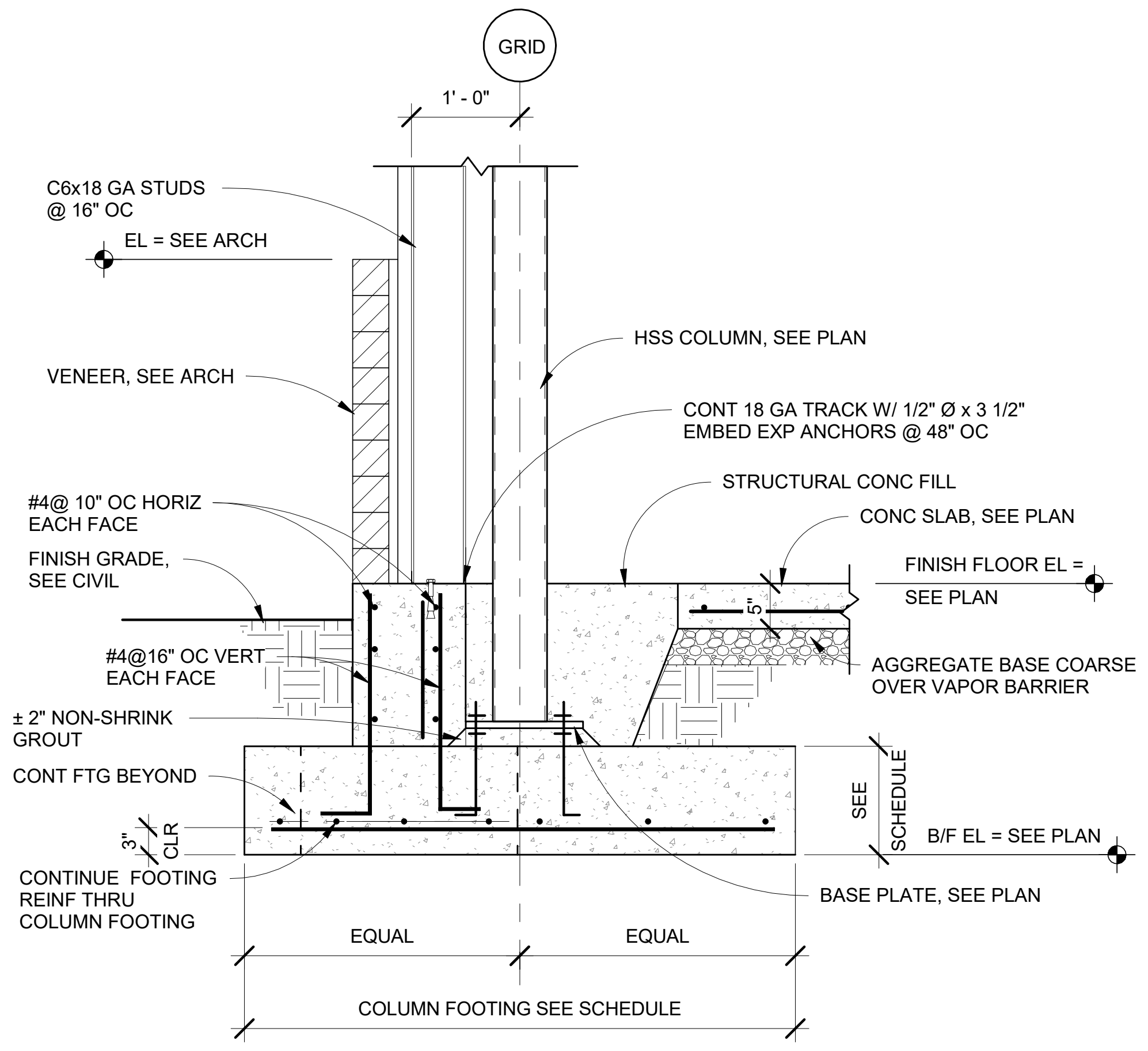
D2 SECTION
3/4" = 1'-0"



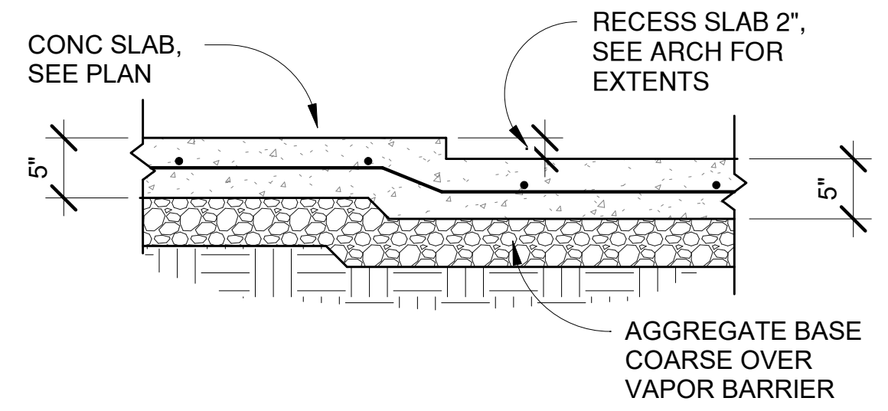
D4 SECTION
3/4" = 1'-0"


C6x18 GA STUDS @ 16" OC
CONT 18 GA TRACK W/ 1/2" Ø x 3 1/2" EMBED EXP ANCHORS @ 48" OC
2"
CONT 1/2" EXP JOINT MATERIAL W/ EXTERIOR GRADE SEALANT
DRILL & EPOXY #4 x 18" DOWELS @ 18" OC
EXTERIOR CONC, SEE CIVIL
CONC SLAB, SEE PLAN
FINISH FLOOR EL = SEE PLAN
5"
#4@16" OC VERT
AGGREGATE BASE COARSE OVER VAPOR BARRIER
#4@ 10" OC HORIZ
RIGID INSULATION, SEE ARCH
(3) #4 CONT
1' - 0"
3" CLR
#4 @ 24" OC TRANSVERSE
EQ
8"
EQ
2' - 0"

D5 SECTION
3/4" = 1'-0"



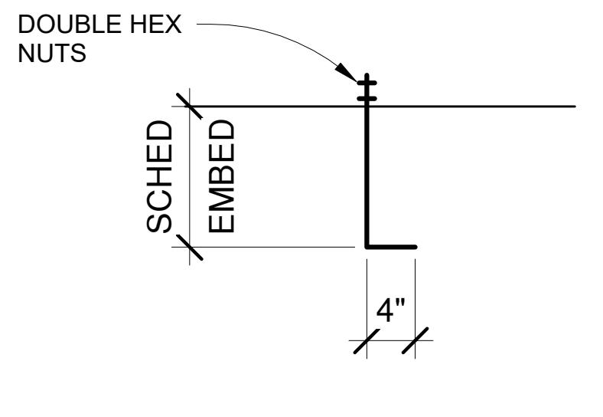
C1 SECTION
3/4" = 1'-0"


CONC SLAB, SEE PLAN
RECESS SLAB 2", SEE ARCH FOR EXTENTS
5"
5"
AGGREGATE BASE COARSE OVER VAPOR BARRIER

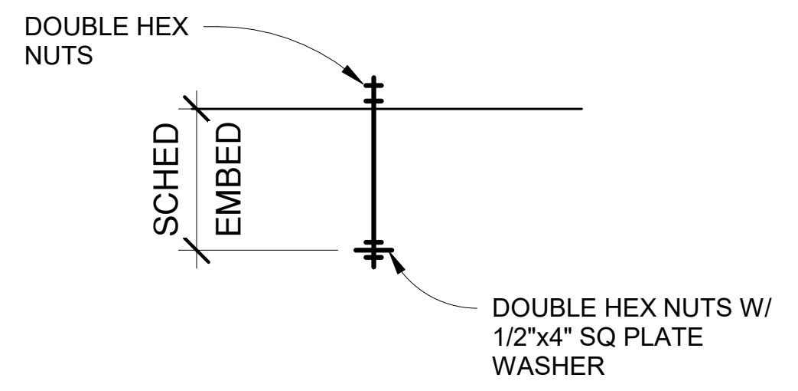
C2 RECESS SLAB
3/4" = 1'-0"

# BASE PLATE SCHEDULE

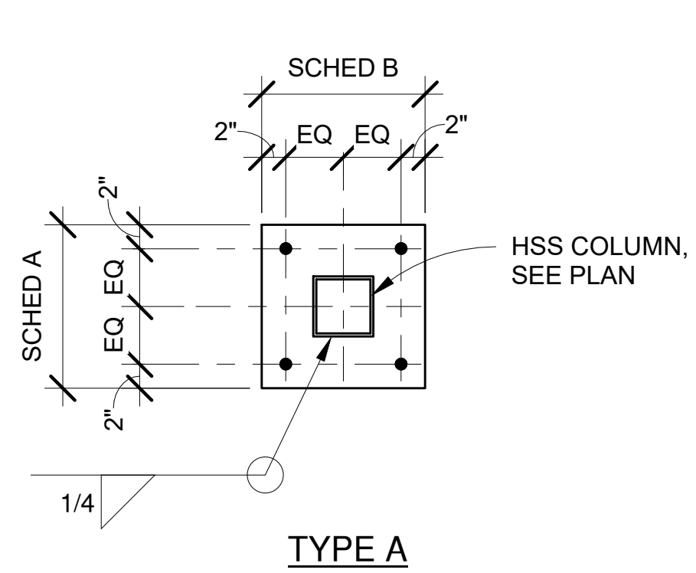
| MARK | TYPE | SIZE "T"x"A"x"B" | A307 ANCHOR BOLTS | ANCHOR BOLT TYPE |
|---|---|---|---|---|
| 1 | A | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED | 1 |
| 2 | D | 3/4"x11"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |
| 3 | C | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED | 1 |
| 4 | A | 3/4"x13"x1'-1" | (4)- 3/4"Øx 9" EMBED ALL THREADS | 2 |
| 5 | D | 3/4"x13"x1'-1" | (4)- 3/4"Øx9" EMBED ALL THREADS | 2 |



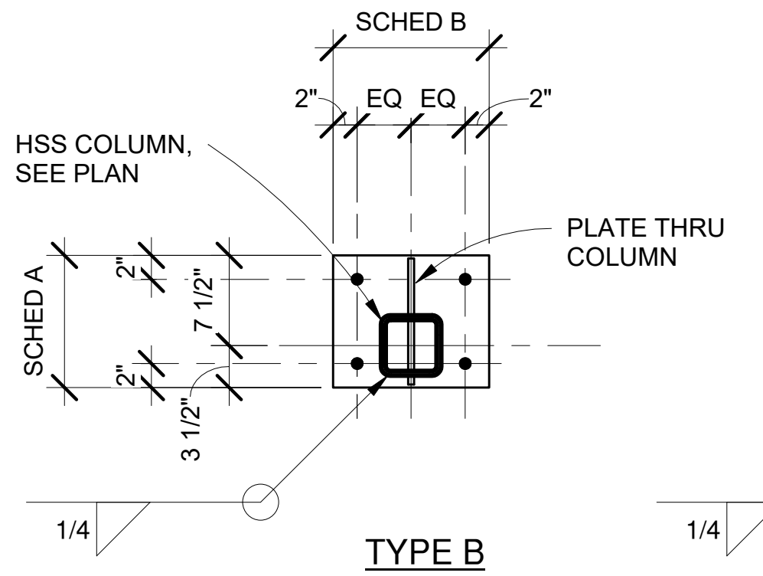
TYPE 1 ANCHOR BOLT



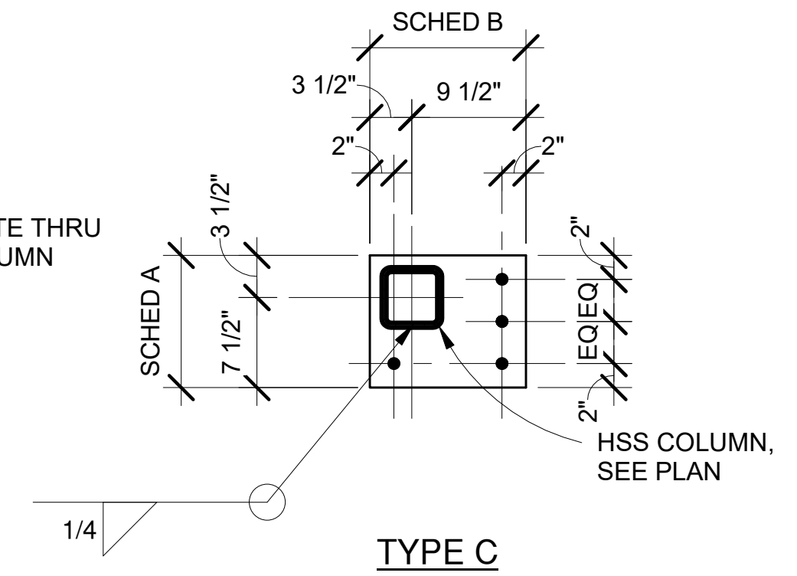
TYPE 2 ANCHOR BOLT



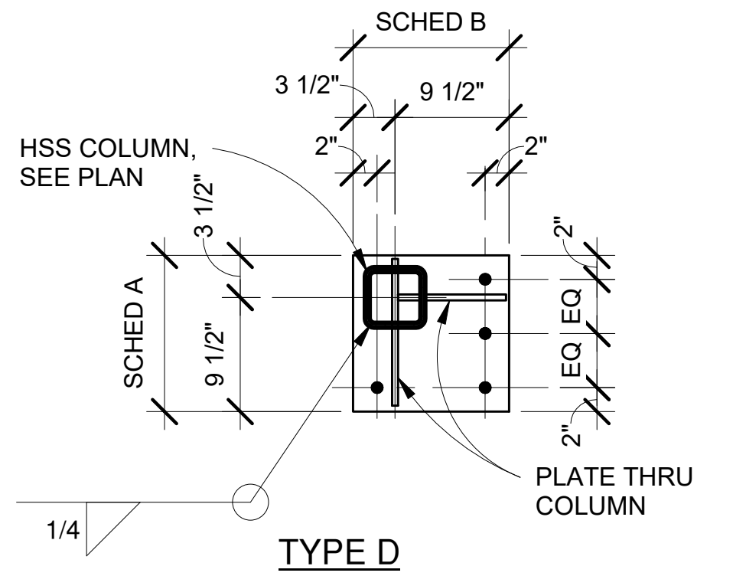
TYPE A



TYPE B



TYPE C



TYPE D

A1 BASE PLATE SCHEDULE
3/4" = 1'-0"

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
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6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

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4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
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6501 Americas Pkwy NE Ste. 301
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ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New Dormitory Building**
**Foundation Set**

35 Road 7585, Bloomfield, NM
87413

AUGUST 10, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

ISSUE:
DATE:
PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

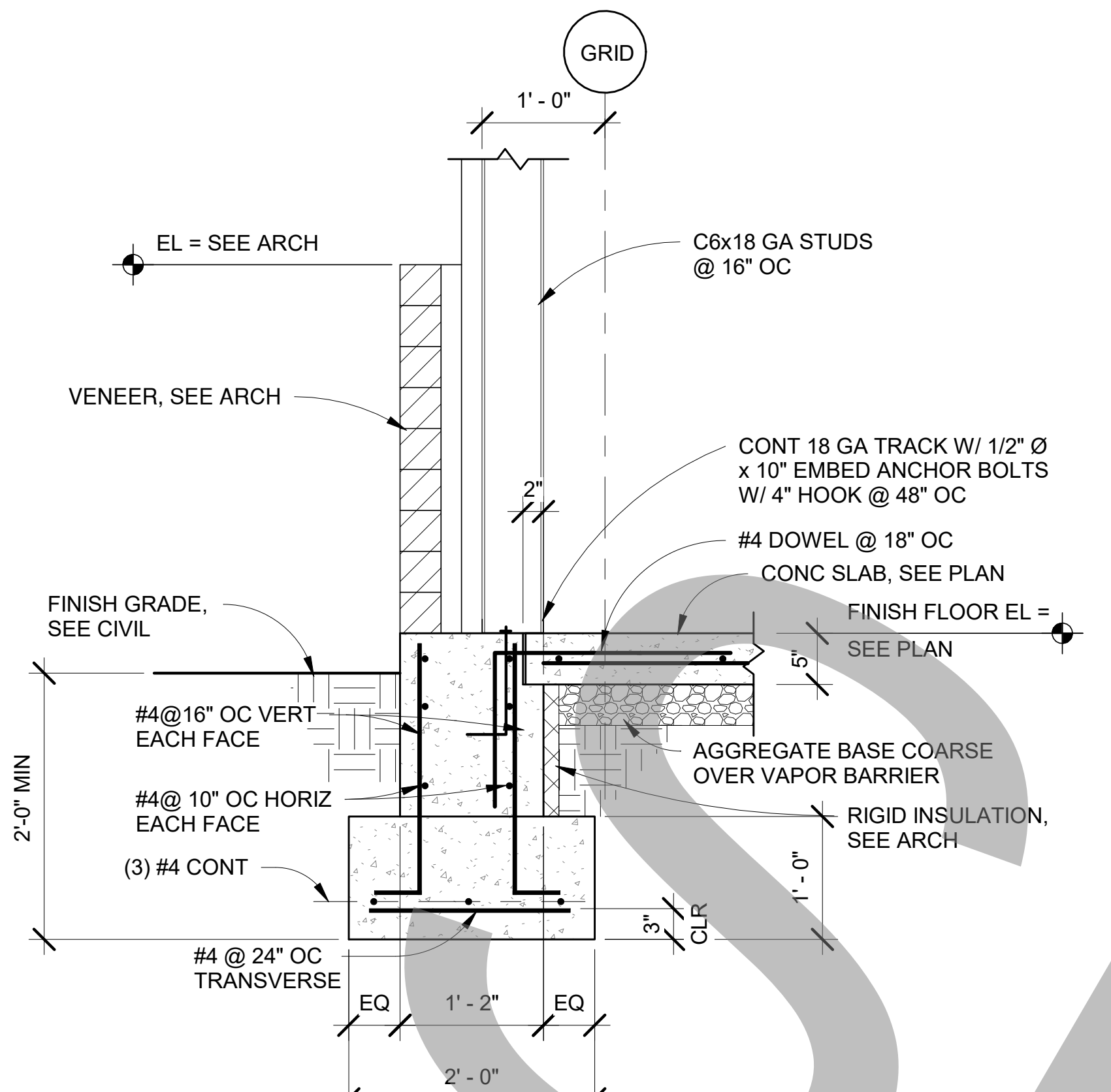
SHEET TITLE

FOUNDATION SECTIONS

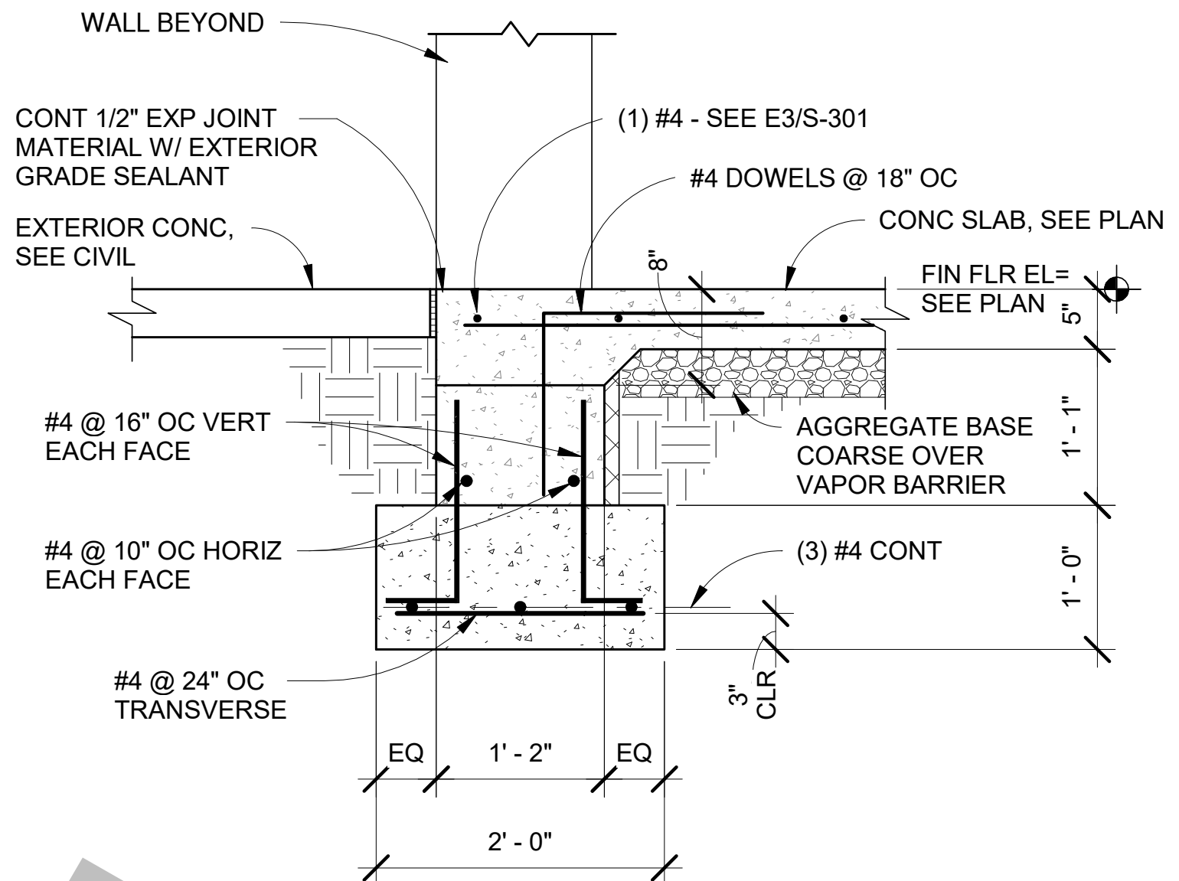
S-301

School Information

Dzilth-Na-O-Dith-Hle - New Dormitory Building



E1 SECTION
3/4" = 1'-0"



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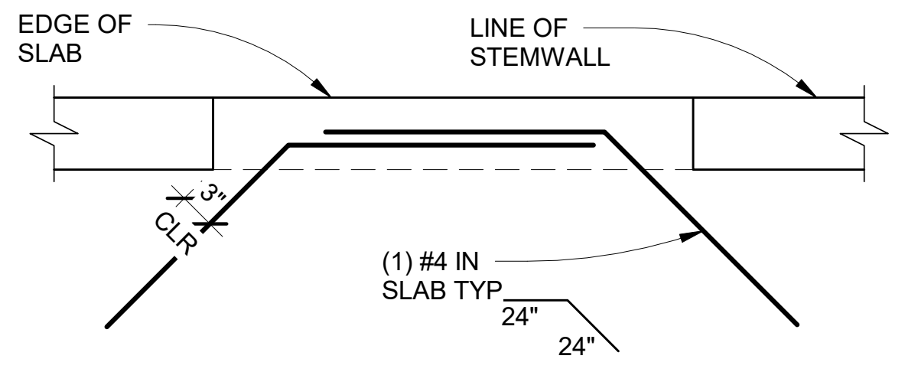
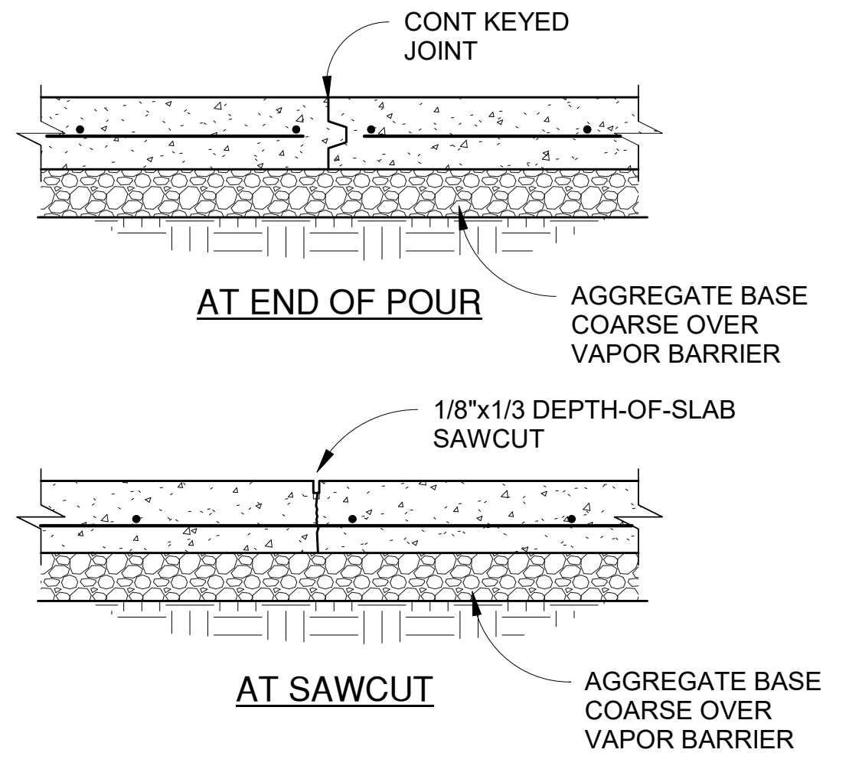
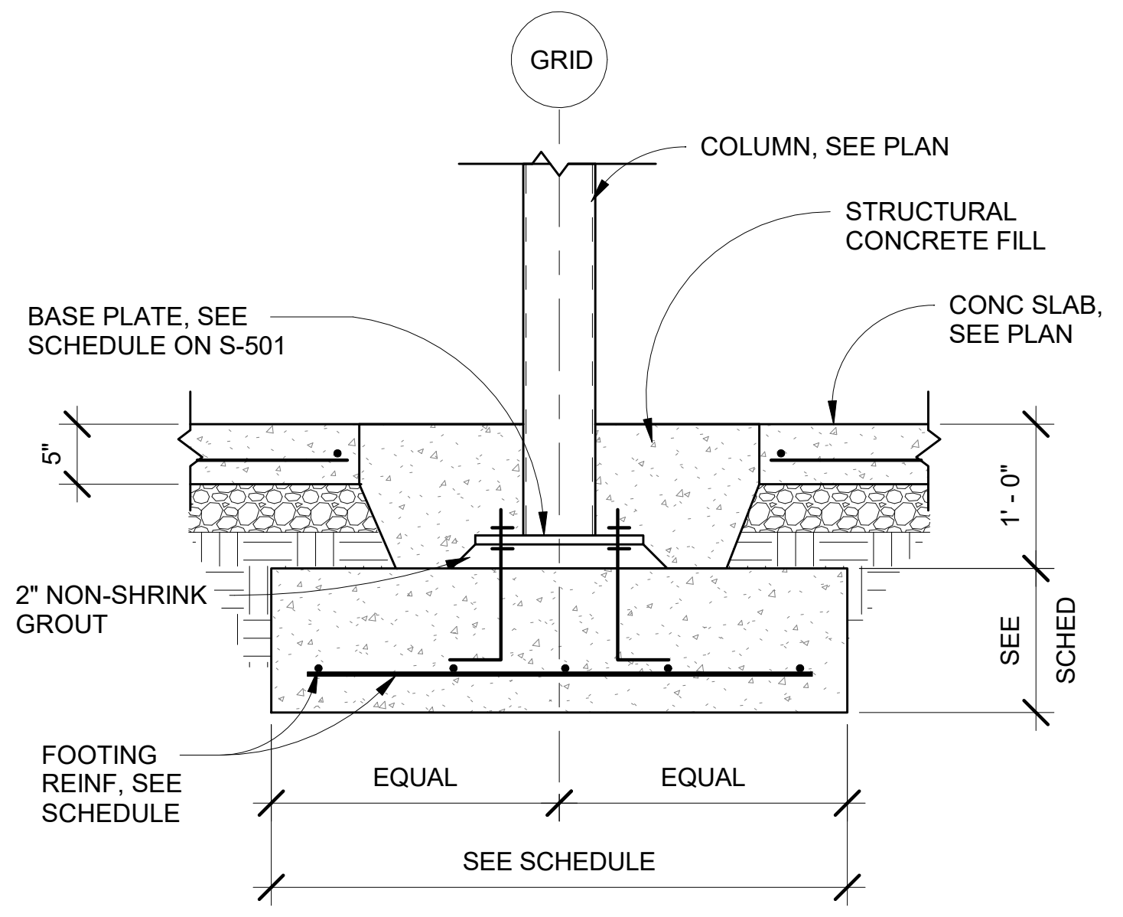
3/4" = 1'-0"



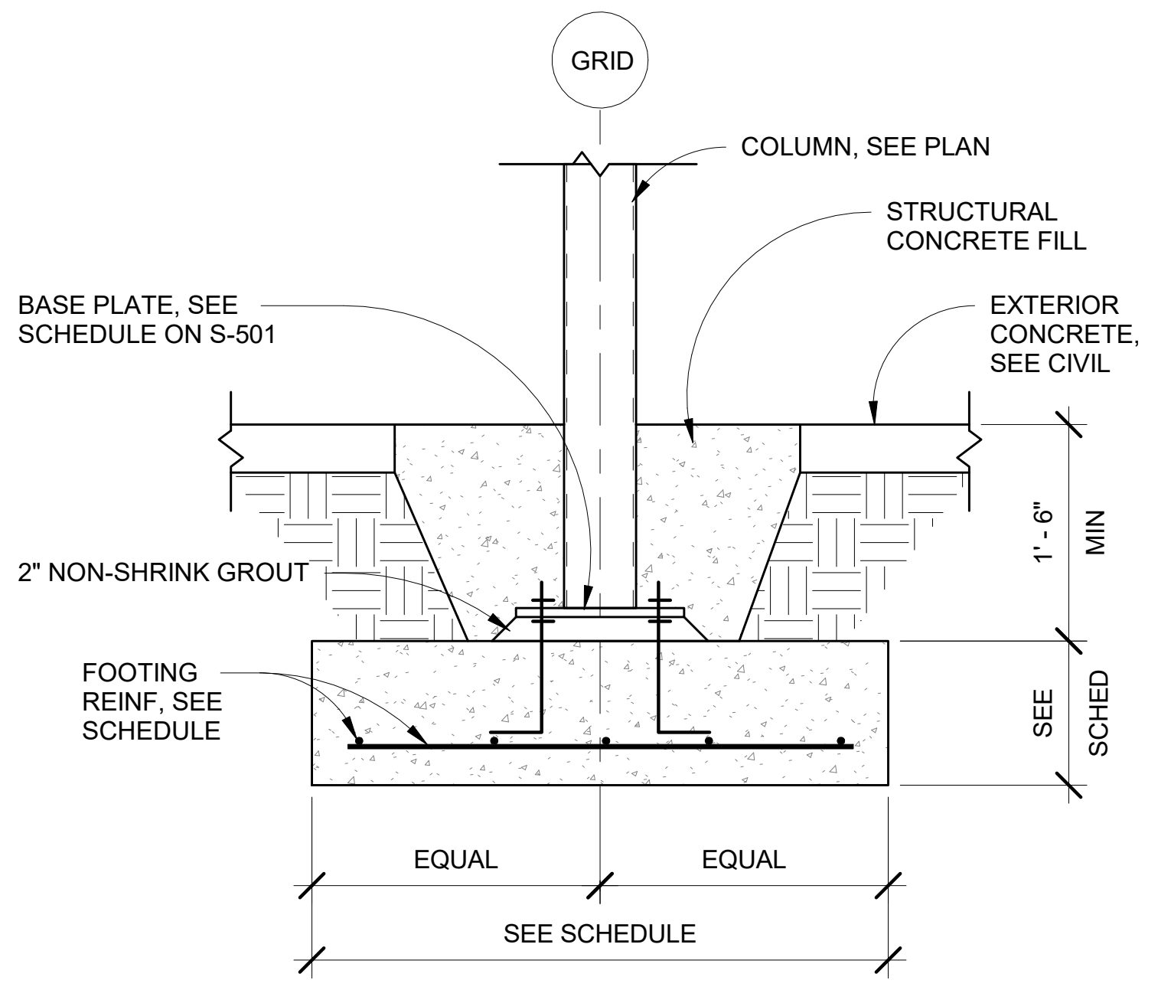
E3 TYP SLAB REINF AT DOOR OPENINGS
3/4" = 1'-0"


CONT KEYED JOINT
AT END OF POUR
AGGREGATE BASE COARSE OVER VAPOR BARRIER
1/8"x1/3 DEPTH-OF-SLAB SAWCUT
AT SAWCUT
AGGREGATE BASE COARSE OVER VAPOR BARRIER

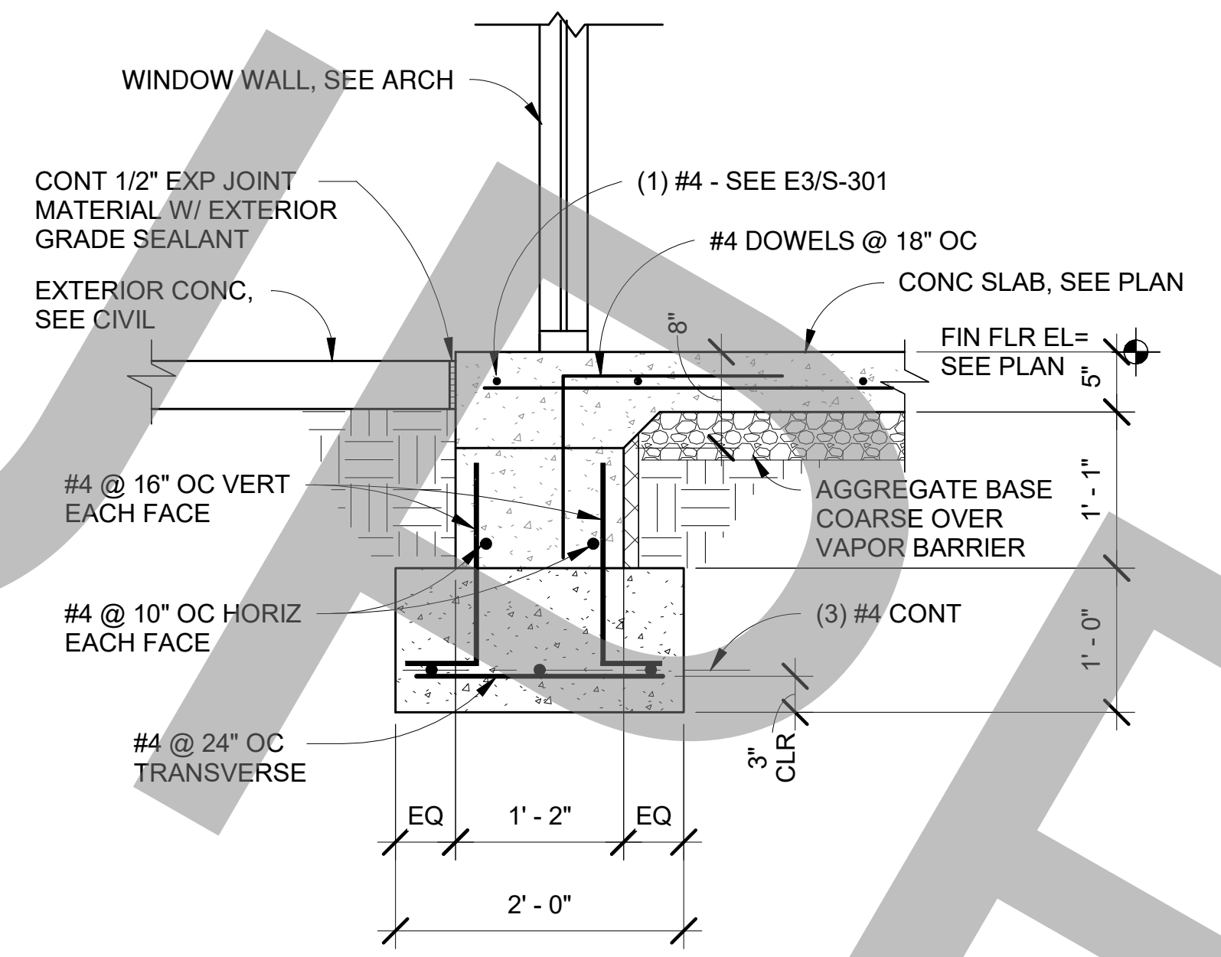
E4 TYP SLAB CONTROL JOINTS
3/4" = 1'-0"



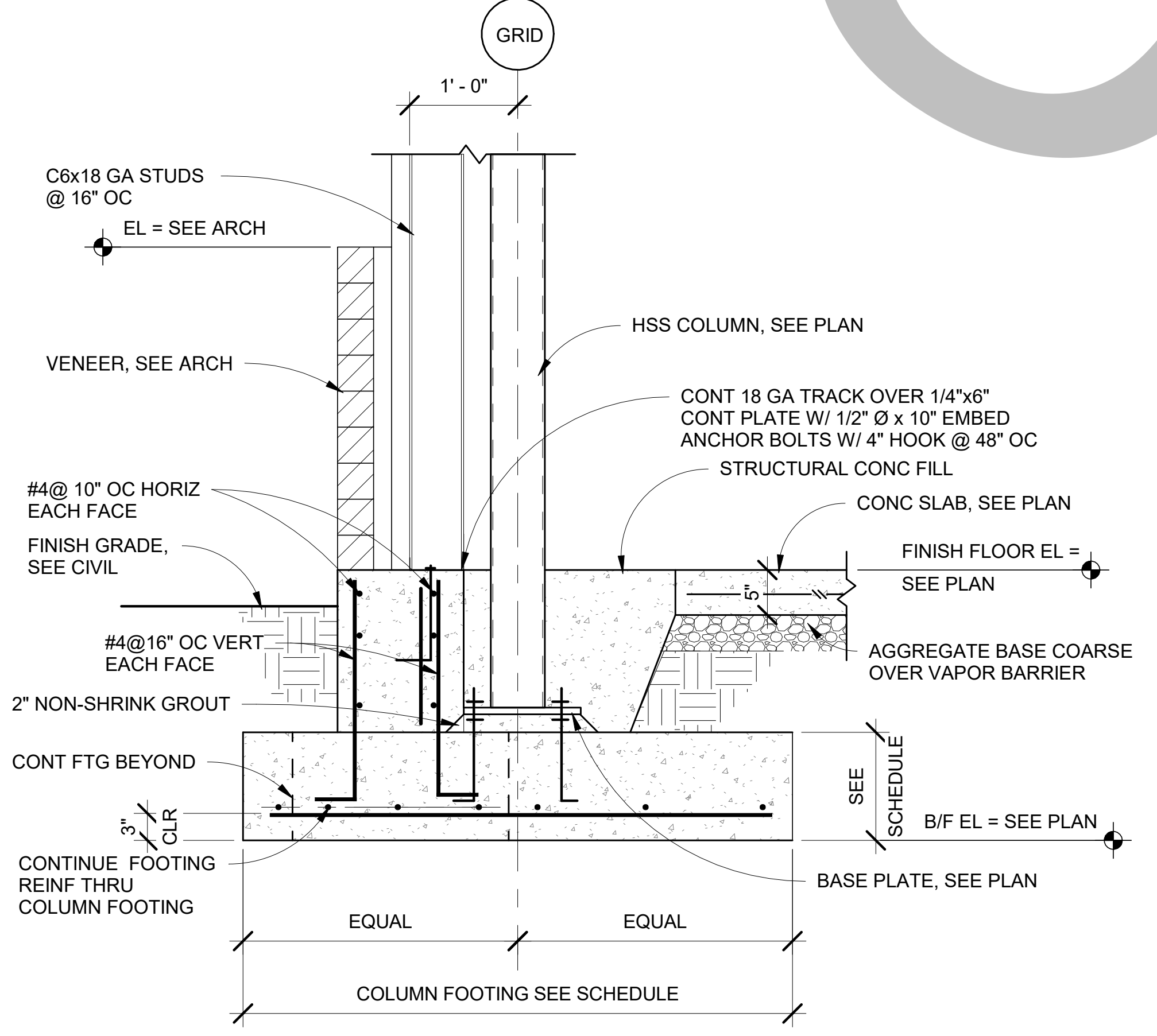
E5 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



E6 TYPICAL EXTERIOR COLUMN
3/4" = 1'-0"



D2 SECTION
3/4" = 1'-0"



C1 SECTION
3/4" = 1'-0"

fbt | architects

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Albuquerque, NM 87110

PHO: 505.883.5200
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CONSULTANT

ENGINEER

**Dzilth-Na-O-Dith-Hle**
**Community School**

**EARLY WORK PACKAGE**
**Site Infrastructure & Building Pad Prep**
35 Road 7585
Bloomfield, NM 87413

JULY 7, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| ISSUE: | |
| DATE: | |
| PROJECT NO: | 751 |
| CAD DWG FILE: | |
| DRAWN BY: | KV |
| CHECKED BY: | MJW |

SHEET TITLE

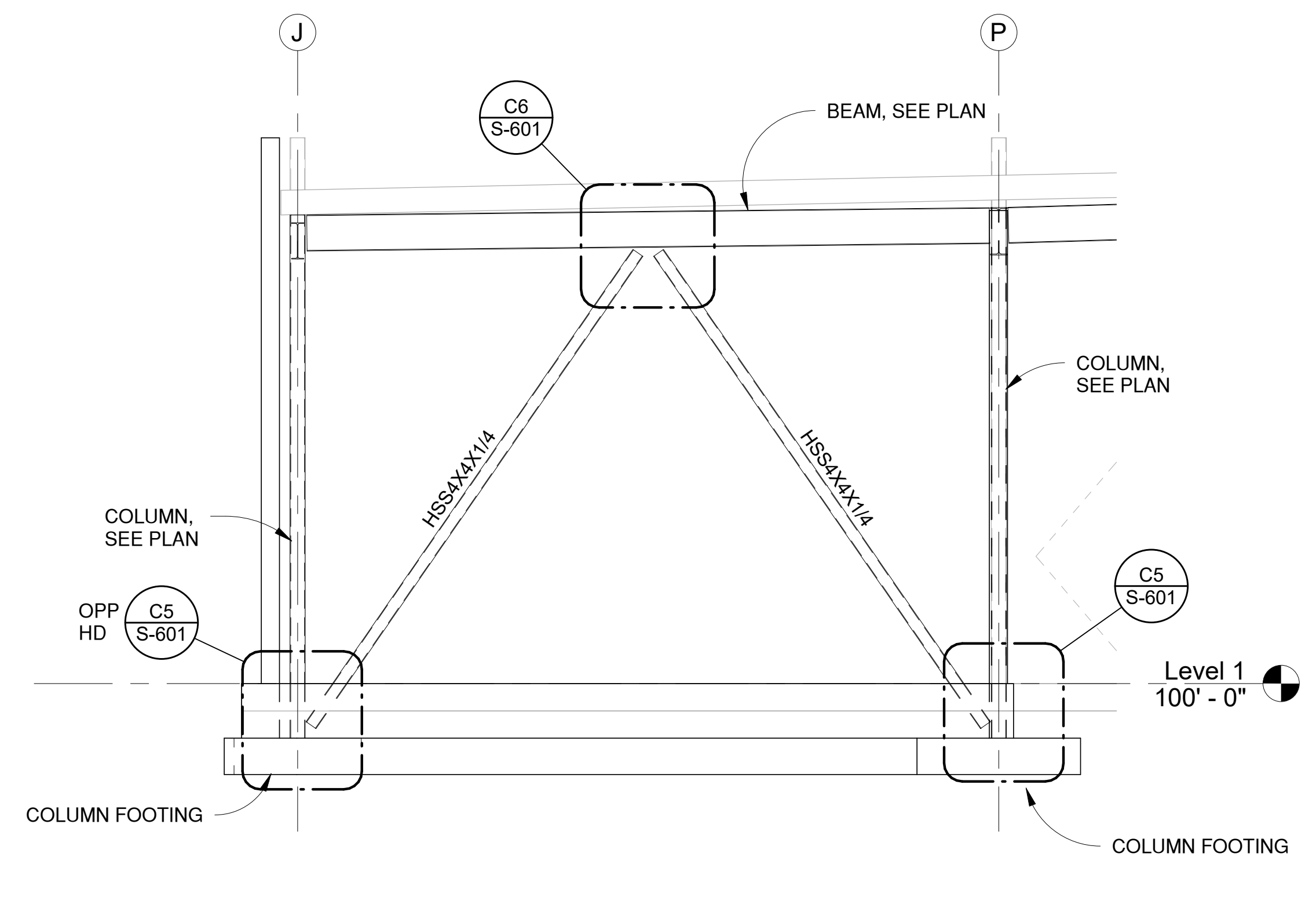
FOUNDATION SECTIONS
(DORM)

S-301(2)

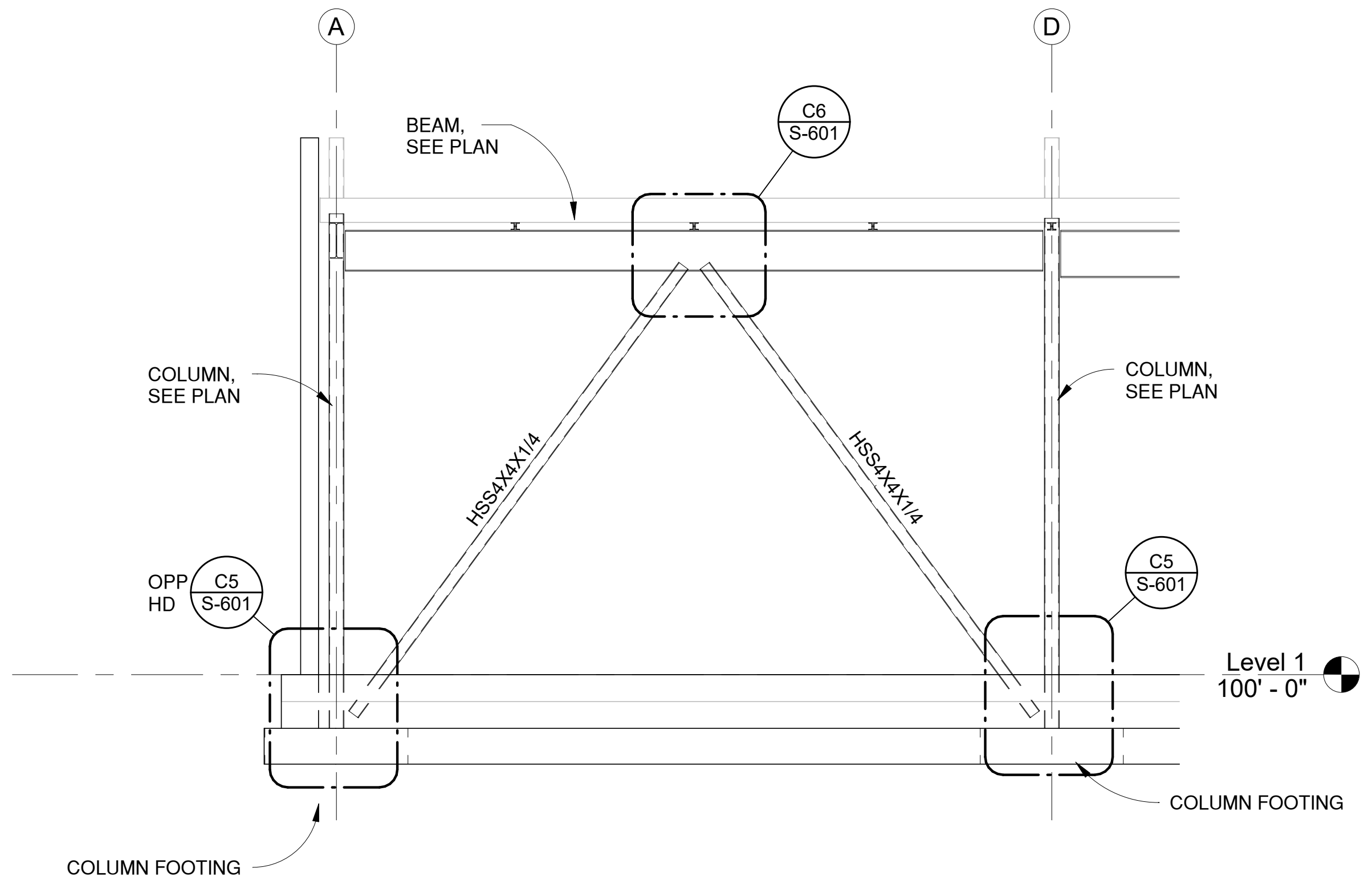
7/1/2020 4:12:16 PM

School Information

Dzilth-Na-O-Dith-Hle - New Dormitory Building



E1 BRACED FRAME 1
1/4" = 1'-0"



E3 BRACED FRAME 2
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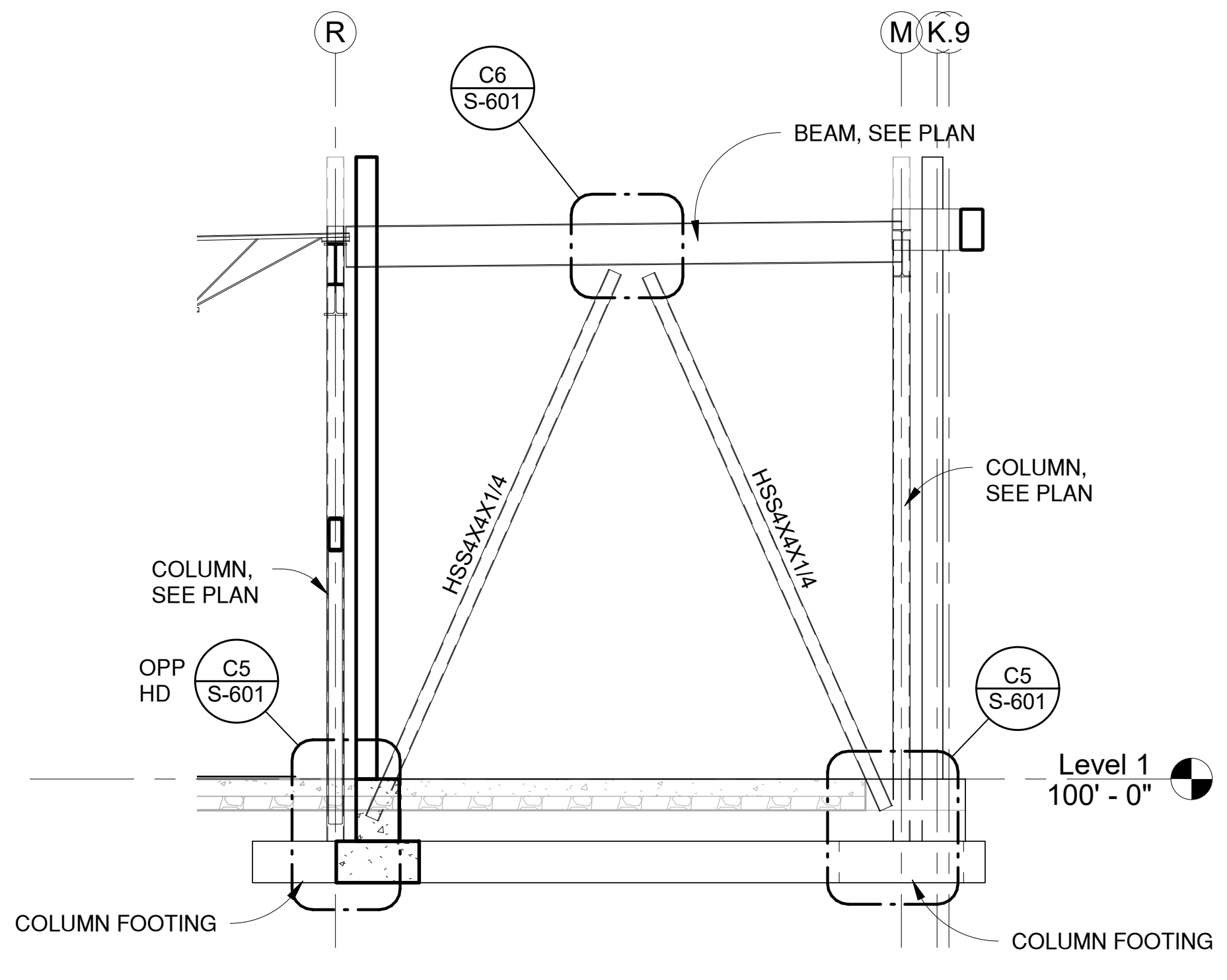
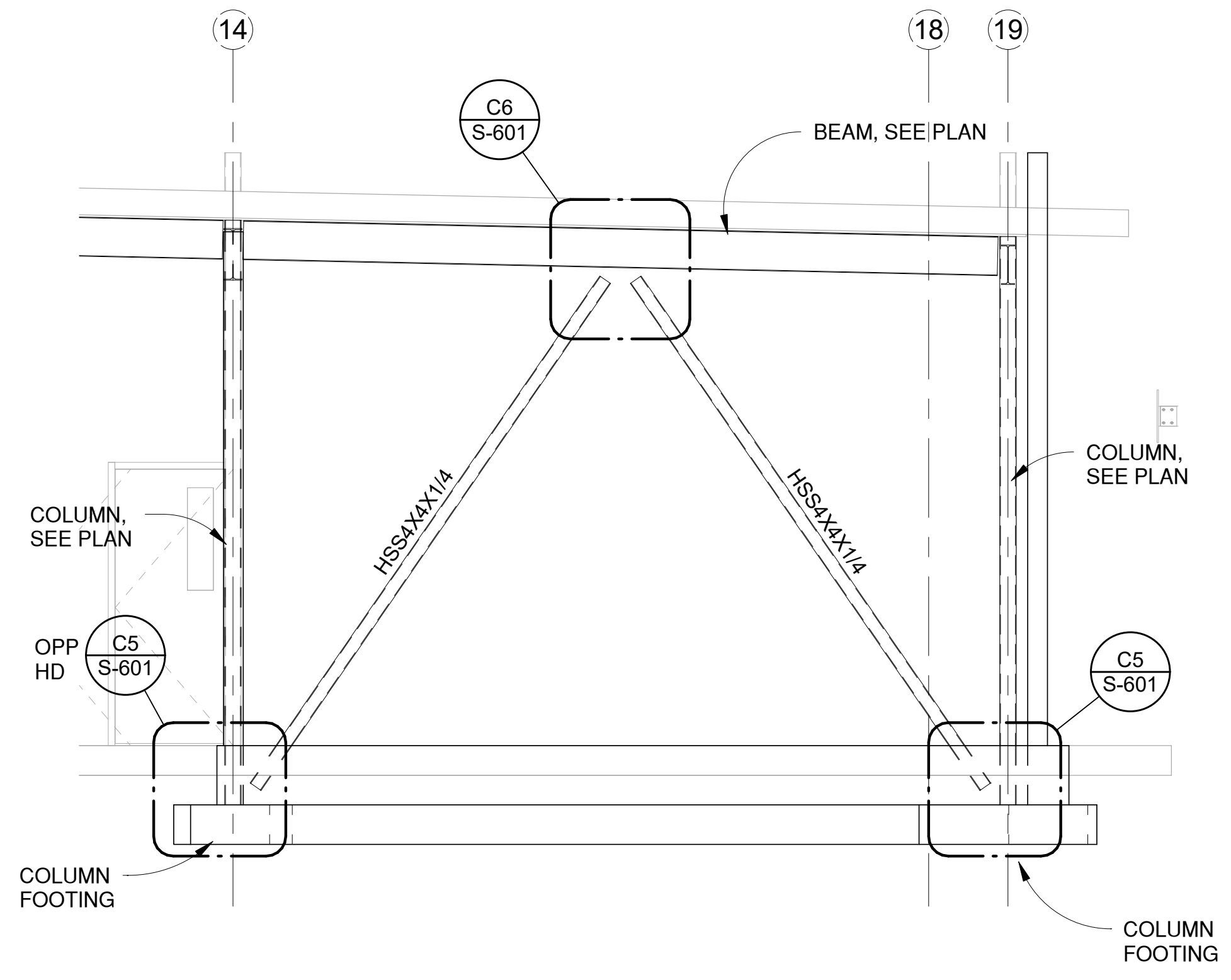
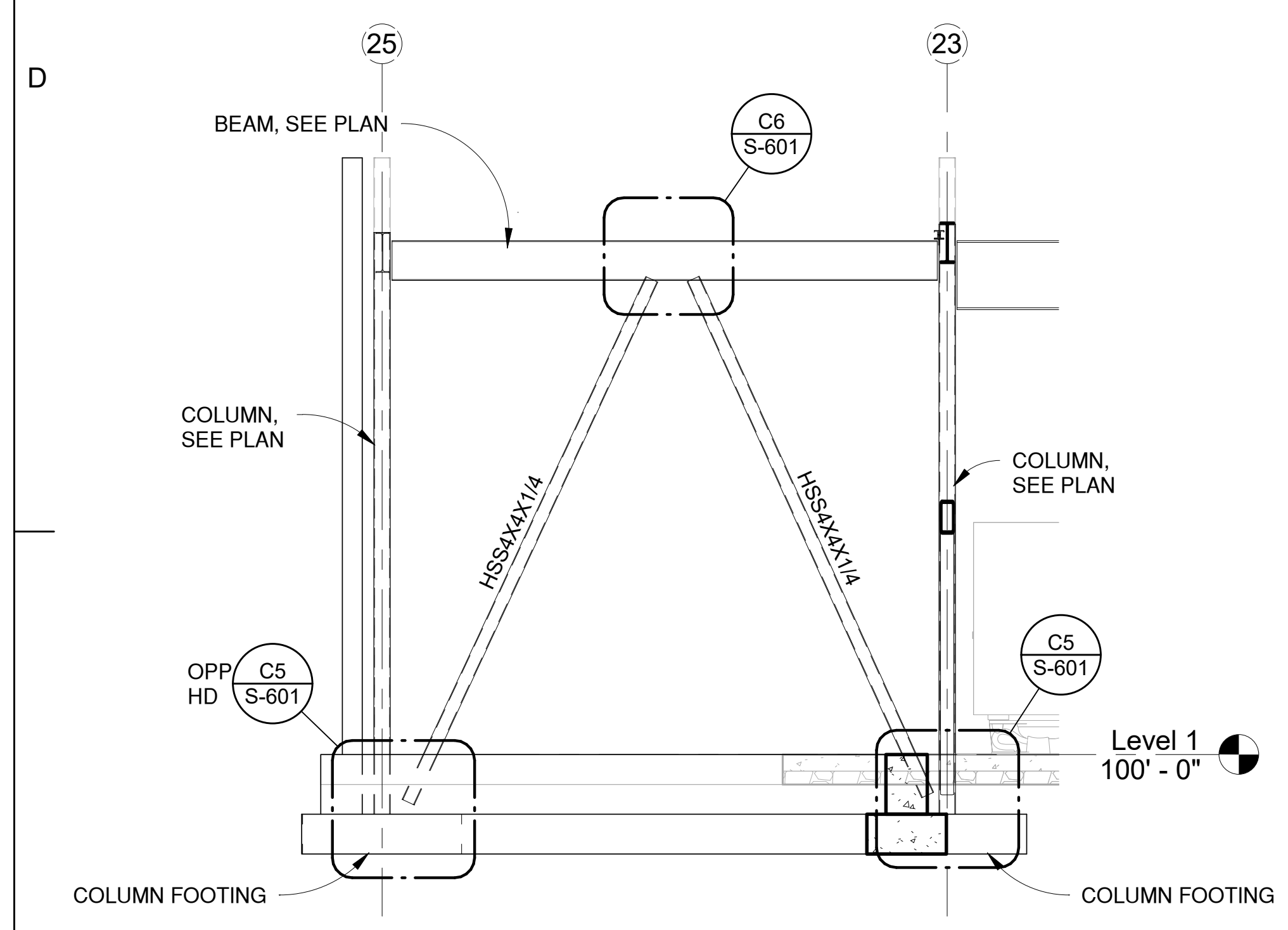


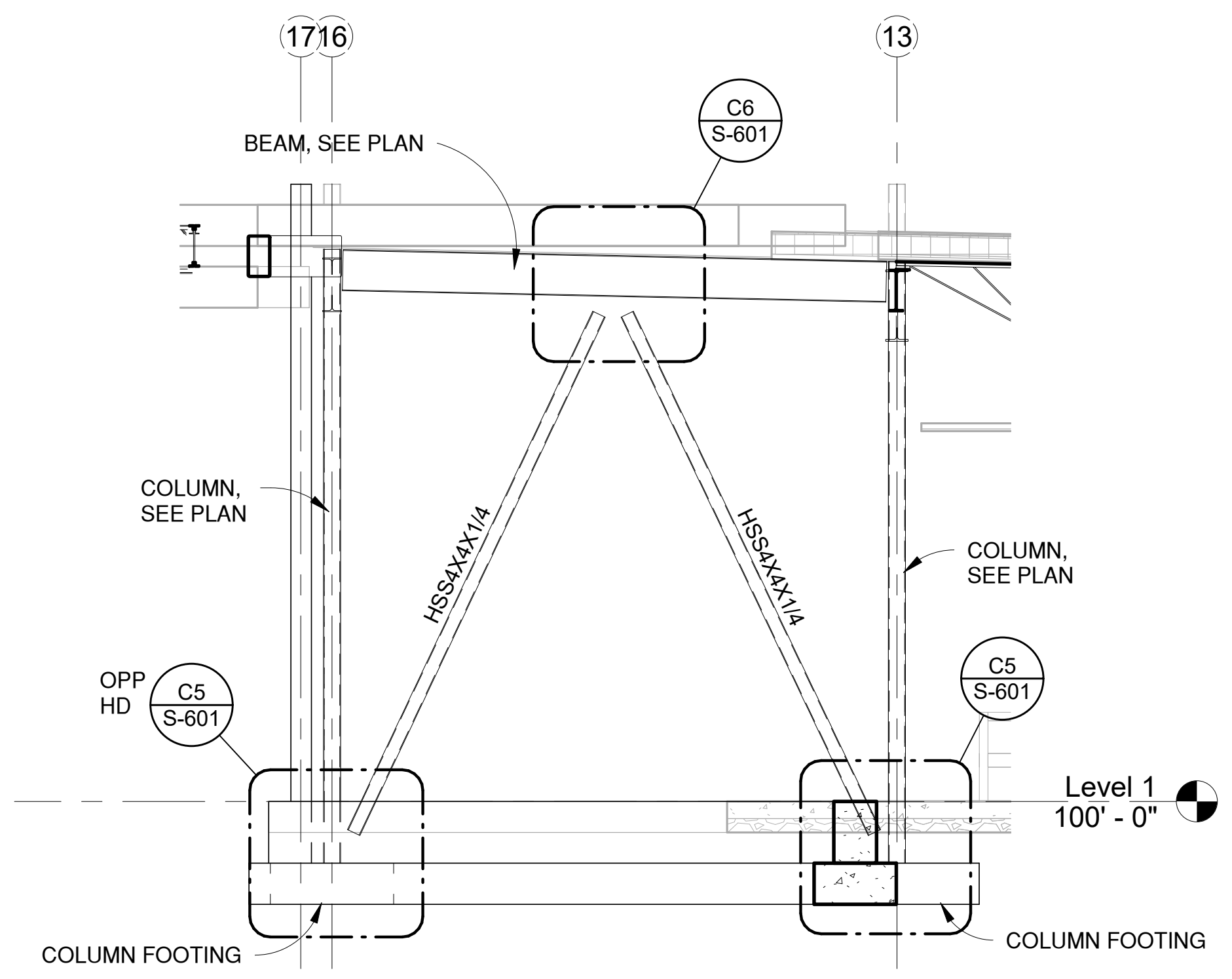
E4 BRACED FRAME 3
1/4" = 1'-0"



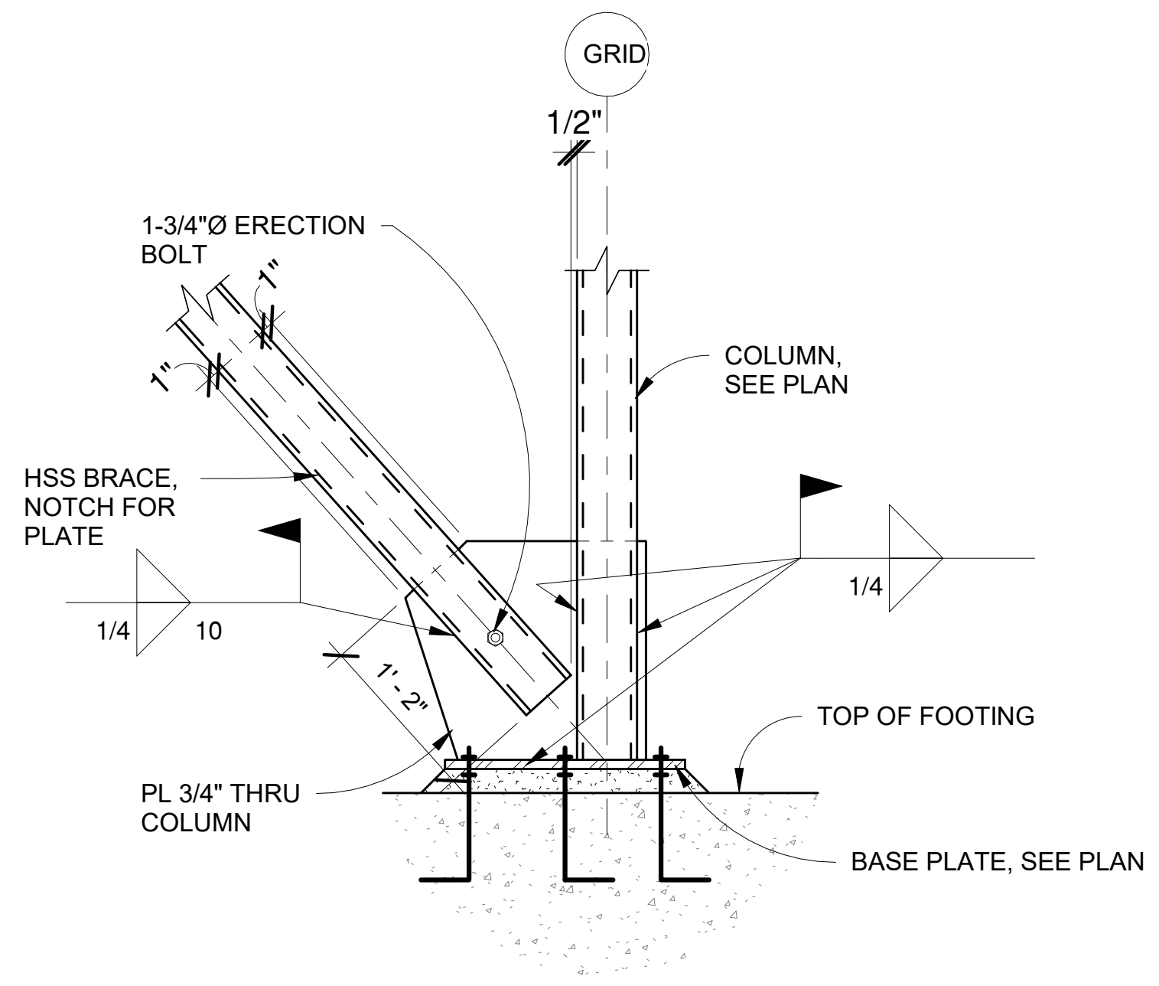
E6 BRACED FRAME 4
1/4" = 1'-0"



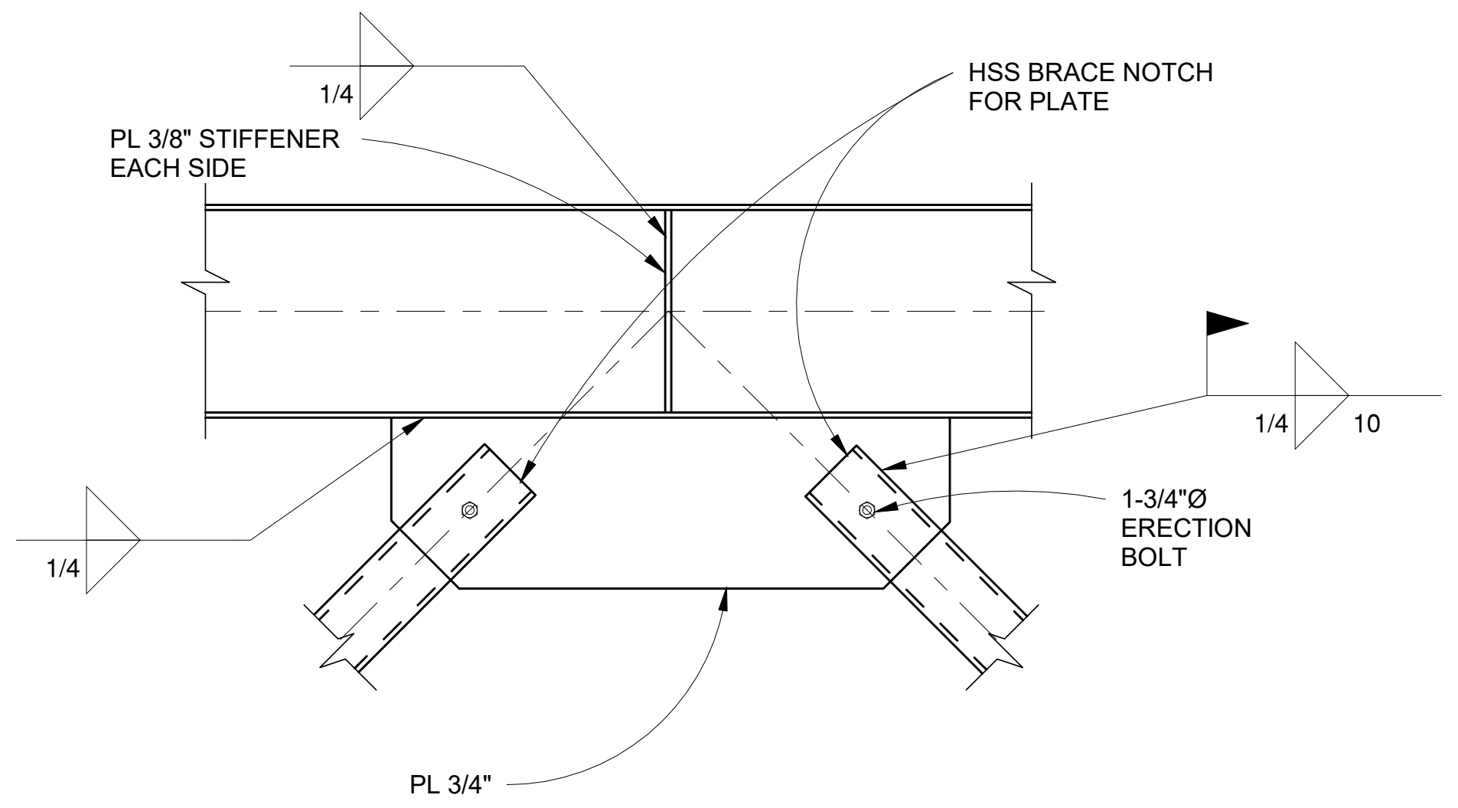
C1 BRACED FRAME 5
1/4" = 1'-0"



C2 BRACED FRAME 6
1/4" = 1'-0"



C5 BRACED FRAME DETAIL
3/4" = 1'-0"



C6 BRACED FRAME DETAIL
3/4" = 1'-0"

**fbt | architects**

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110
PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

**CIVIL**
**Bohannon Huston**
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

**STRUCTURAL**
**Walla Engineering Ltd**
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

**M/E/P/FP**
**Bridgers and Paxton**
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

**INTERIORS**
**Studio M**
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

**SITE**
**Groundwork Studio**
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

**FOOD SERVICE**
**Standard Kitchen Supply**
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENGINEER

**Dzilth-Na-O-Dith-Hle -**
**New Dormitory Building**
**Foundation Set**

35 Road 7585, Bloomfield, NM
87413

AUGUST 10, 2020

| MARK | DATE | DESCRIPTION |
|---|---|---|
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ISSUE:
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PROJECT NO: 751
CAD DWG FILE:
DRAWN BY: KV
CHECKED BY: MJW

SHEET TITLE

BRACED FRAME ELEVATIONS & DETAILS

S-601

School Information

8/10/2020 9:36:09 AM