New Braunfels Police Department

3030 W San Antonio St
New Braunfels, TX 78130

ARCHITECT
PGAL
2222 WESTERN TRAILS BLVD
SUITE 300
AUSTIN, TX 78745
T (512) 236-1005

STRUCTURAL ENGINEER
WALTER P MOORE
221 W 6TH ST, SUITE 800
AUSTIN, TX 78701
T (512) 330-1270

CIVIL ENGINEER
HMT ENGINEERING & SURVEYING
290 S CASTELL AVE
SUITE 100
NEW BRAUNFELS, TX 78130
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PGAL
2222 WESTERN TRAILS BLVD
SUITE 300
AUSTIN, TX 78745
T (512) 236-1005

OWNER
CITY OF NEW BRAUNFELS
CITY ADMINISTRATION
550 LANDA STREET
NEW BRAUNFELS, TX 78130
T (830) 221-4638

MEP ENGINEER
DBR INC
9990 RICHMOND AVE
SO. BUILDING, SUITE 300
HOUSTON, TX 77042
T (713) 914-0888

AV/IT/SECURITY
DBR INC
9990 RICHMOND AVE
SO. BUILDING, SUITE 300
HOUSTON, TX 77042
T (713) 914-0888

LANDSCAPE
LUCK DESIGN TEAM
9600 ESCARPMENT BLVD
SUITE 745-4
AUSTIN, TX 78749
T (512) 810-0684

ISSUE FOR CONSTRUCTION ADDENDUM 2
PROJECT No. 1004389

2020/09/30
1. Not used.

2. Dimensions are not adjustable without approval of Architect unless noted +/-.

3. The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems.

4. Where building seismic joints are located, the General Contractor shall provide applicable Code and industry best practices for routing of all piping, ducts, and wires.

5. The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, HVAC equipment, and wiring. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, metal, and other materials indicated in the shop drawing.

6. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as required to maintain UL fire rating of floor slab where pipes and conduits have been removed.

7. Only new materials and equipment of recent manufacture, of standard quality and free from defects, will be permitted in the Work, unless otherwise noted.

8. All materials and systems shall be installed per manufacturer's specifications. All construction shall be of industry standard or better. The Architect shall be final responsible for the safety of all building occupants during construction procedures. The General Contractor shall be responsible for any costs incurred.

9. The General Contractor shall exercise industry best practices for care and caution during the construction of the Work, and shall schedule work to minimize disruption to building users.

10. The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building work prior to the commencement of work. The General Contractor shall submit proposed locations of core drilling and slab openings to Architect and Structural Engineer of Jurisdiction. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections and tests.

11. The General Contractor shall be responsible for any risk to the Owner caused by the General Contractor's failure to perform the Work in a timely manner.

12. The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, HVAC equipment, and wiring. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, metal, and other materials indicated in the shop drawing. The General Contractor shall be responsible for the safety of all building occupants during construction procedures. The General Contractor shall be responsible for any costs incurred.

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15. The General Contractor shall be responsible for any risk to the Owner caused by the General Contractor's failure to perform the Work in a timely manner.

16. The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems.

17. Where building seismic joints are located, the General Contractor shall provide applicable Code and industry best practices for routing of all piping, ducts, and wires.

18. The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, HVAC equipment, and wiring. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, metal, and other materials indicated in the shop drawing.

19. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as required to maintain UL fire rating of floor slab where pipes and conduits have been removed.

20. Only new materials and equipment of recent manufacture, of standard quality and free from defects, will be permitted in the Work, unless otherwise noted.

21. All materials and systems shall be installed per manufacturer's specifications. All construction shall be of industry standard or better. The Architect shall be final responsible for the safety of all building occupants during construction procedures. The General Contractor shall be responsible for any costs incurred.

22. The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building work prior to the commencement of work. The General Contractor shall submit proposed locations of core drilling and slab openings to Architect and Structural Engineer of Jurisdiction. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections and tests.

23. The General Contractor shall exercise industry best practices for care and caution during the construction of the Work, and shall schedule work to minimize disruption to building users.

24. The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building work prior to the commencement of work. The General Contractor shall submit proposed locations of core drilling and slab openings to Architect and Structural Engineer of Jurisdiction. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections and tests.

25. The General Contractor shall be responsible for any risk to the Owner caused by the General Contractor's failure to perform the Work in a timely manner.

26. The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems.

27. Where building seismic joints are located, the General Contractor shall provide applicable Code and industry best practices for routing of all piping, ducts, and wires.

28. The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, HVAC equipment, and wiring. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, metal, and other materials indicated in the shop drawing.

29. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as required to maintain UL fire rating of floor slab where pipes and conduits have been removed.

30. Only new materials and equipment of recent manufacture, of standard quality and free from defects, will be permitted in the Work, unless otherwise noted.

31. All materials and systems shall be installed per manufacturer's specifications. All construction shall be of industry standard or better. The Architect shall be final responsible for the safety of all building occupants during construction procedures. The General Contractor shall be responsible for any costs incurred.

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34. The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building work prior to the commencement of work. The General Contractor shall submit proposed locations of core drilling and slab openings to Architect and Structural Engineer of Jurisdiction. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections and tests.

35. The General Contractor shall be responsible for any risk to the Owner caused by the General Contractor's failure to perform the Work in a timely manner.
CODE ANALYSIS

APPLICABLE CODES:
- BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
- MECHANICAL CODE: 2018 INTERNATIONAL MECHANICAL CODE
- PLUMBING CODE: 2018 INTERNATIONAL PLUMBING CODE
- ELECTRICAL CODE: 2018 INTERNATIONAL ELECTRICAL CODE
- FIRE CODE: 2018 INTERNATIONAL FIRE CODE
- ENERGY CODE: 2018 INTERNATIONAL FIRE RESISTANCE CODE

OCCUPANCY CLASSIFICATION (IBC SECTION 302):

CONSTRUCTION TYPE (IBC TABLE 601):

MAIN BUILDING ALLOWABLE BUILDING HEIGHT & AREA

(IBC TABLES 504.3, 504.4, 506.2):

ANNEX ALLOWABLE BUILDING HEIGHT & AREA

(IBC TABLES 504.3, 504.4, 506.2):

ALLOWABLE HEIGHT AND STORIES (IBC SECTION 506)

FRONTAGE INCREASE (IBC SECTION 506)

TYPE IB

BUILDING DESIGN INFORMATION

FIRE RESISTANCE RATING FOR FIRE BARRIERS, WALLS, AND HORIZONTAL ASSEMBLIES BETWEEN FIRE AREAS (IBC 707.3.10):

REQUIRED SEPARATION OF OCCUPANCIES (IBC TABLE 508.4):

MAIN BUILDING

NON-Separated OCCUPANCIES (IBC 508.3):

ANEX

SEPARATION OF INCIDENTAL USES (IBC TABLE 509):

OCCUPANCY CALCULATIONS

MEANS OF EGRESS CALCULATIONS - MAIN BUILDING

MEANS OF EGRESS CALCULATIONS - ANNEX

INTERIOR EXIT STAIRWAY CONSTRUCTION (IBC SECTION 1023.2)

COMMON PATH OF EGRESS

PLUMBING INFORMATION

PLUMBING FIXTURE COUNT
CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

Counter Slope of Surfaces Adjacent to Curb Ramps

Diagonal or Corner Type Curb Ramps
Landings at the Top of Curb Ramps
Sides of Curb Ramps
Islands in Crossings

Passenger Loading Zone Access Aisle
Parking Space Access Aisle
Vehicle Parking Spaces

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

407.0.2.2 Visible Hall Signals

2½ min

407.2.3.1 Volume

703.7.2.1

703.7.2.2 International TTY Symbol

703.6

Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

150

510

Floor Designations on Jambs of Elevator Hoistway Entrances

20 max

407.2.3.2 Volume

703.7.2.3 Volume

Hearing Loss Symbol of Access for Hearing Impaired Persons

703.7.2.4 Volume

703.6

Field Pictogram

704.2.1.1

704.2.1.2

703.3.1 Braille Measurement

15 sq ft min

0.9

1.4 m²

407.4.1 (Exception) Existing

1370

2½ min

Distance between corresponding dots

2 min

51

Distance between dots

51

Counter Slope of Surfaces Adjacent to Curb Ramps

65% of the base diameter

703.3.2 Position of Braille

5.1

0.65 min

17

703.4.1 Height of Tactile Characters Above Floor or Ground

5.1

703.4.2 Location of Tactile Signs at Doors

18 min

51

-61

41

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41
# Project Location Map

## Project Benchmark

- SITE
- PROJECT BENCHMARK
- LEGAL DESCRIPTION
- REQUIRED PERMITS

## Project Information

- NEW BRAUNFELS POLICE DEPARTMENT
- 3030 W SAN ANTONIO ST
- NEW BRAUNFELS, TX 78130

## September 2020

### Sheet List Table

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Description</th>
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<tr>
<td>08/21/20</td>
<td>ISSUE FOR PERMIT AND CONSTRUCTION</td>
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<tr>
<td>09/10/20</td>
<td>ADDENDUM 1</td>
</tr>
<tr>
<td>09/30/20</td>
<td>ADDENDUM 2</td>
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3030 W SAN ANTONIO ST
NEW BRAUNFELS, TX 78130

NEW BRAUNFELS POLICE DEPARTMENT HQ
290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130

PREPARED BY:

HMT
ENGINEERING & SURVEYING

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130

HMTNB.COM
HMITNB.COM/F-10961
HMTPLS.COM/F-10061

CHRISTOPHER P. VAN HEERDE
93047

09/30/2020
FOR REFERENCE ONLY
FOR REFERENCE ONLY
DRAINAGE FEATURES, DETENTION B平面 MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

A. TO LIMIT EROSION, NO UN铺DERCUTTED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.

B. ACCUMULATED PAPER, TRASH, AND DEBRIES SHALL BE REMOVED FROM DRAINAGE BASINS EVERY 6 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.

C. ACCUMULATED PAPER, TRASH, AND DEBRIES SHALL BE REMOVED FROM STORM PILES AND CHANNELS EVERY 12 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.

D. STORM SEWER LINES SHALL BE INSPECTED EVERY 24 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.

E. BASINS SHALL BE MOVED ANNUALLY BETWEEN THE MONTHS OF JUNE AND SEPTEMBER.

F. CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME A BASIN DOES NOT DRAIN COMpletely WITHIN 80 HOURS OF OBERATION OF INFLOW (IE: NO STANDING WATER IS ALLOWED).

G. STRUCTURAL INTEGRITY OF BASINS AND CHANNELS SHALL BE MAINTAINED AT ALL TIMES.

H. MAINTENANCE VEHICLE FOR POND AND CHANNEL ACCESS SHOULD BE A BOBCAT SIZE OR STEER LOADER OR VEHICLE OF EQUAL TO LARGER SIZE.

I. SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE VOLUME IS REDUCED BY MORE THAN 10%.

REFER TO THE COVER SHEET FOR ADDITIONAL INFORMATION.
DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10.00 FT IN EXTENT
B. ACCUMULATED PAPER, TRASH, AND DERRIS SHALL BE REMOVED FROM STORM INLETS AND CHANNELS EVERY 12 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
C. STORM SEWER LINES SHALL BE INSPECTED EVERY 24 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
D. STRUCTURAL INTEGRITY OF BASINS AND CHANNELS SHALL BE MAINTAINED AT ALL TIMES.
E. MAINTENANCE VEHICLE FOR POND AND CHANNEL ACCESS SHOULD BE A BOBCAT 875 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.
A. To limit erosion, no unvegetated area shall exceed 10 sq. ft. in extent.
B. Accumulated paper, trash, and debris shall be removed from storm inlets and channels every 12 months or as necessary to maintain proper operation.
C. Storm sewer lines shall be inspected every 24 months or as necessary to maintain proper operation.
D. Structural integrity of basins and channels shall be maintained at all times.
E. Maintenance vehicle for pond and channel access should be a Bobcat 7775 skid steer loader or vehicle of equal to lesser size.
DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS

A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.

B. ACCUMULATED PAPER, TRASH, AND DEBRIS SHALL BE REMOVED FROM STORM INLETS AND CHANNELS EVERY 12 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.

C. STORM SEWER LINES SHALL BE INSPECTED EVERY 24 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.

D. STRUCTURAL INTEGRITY OF BASINS AND CHANNELS SHALL BE MAINTAINED AT ALL TIMES.

E. MAINTENANCE VEHICLE FOR POND AND CHANNEL ACCESS SHOULD BE A ROBOT OF 75% SIDE STEER, LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.

08/21/20
# Existing Tree List

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<th>Tree ID</th>
<th>Tree Type</th>
<th>Quantity</th>
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<td>102</td>
<td>Willow</td>
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<td>103</td>
<td>Cedar</td>
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<td>105</td>
<td>Pine</td>
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<tr>
<td>106</td>
<td>Spruce</td>
<td>2</td>
</tr>
</tbody>
</table>

**Scale:** 1" = 50.0'

**File Path:**

6/26/2008 2:02:08 PM

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1004389

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512.810.0684

New Braunfels, TX 78130
LAYOUT PLANS - GENERAL NOTES - TYPICAL ALL 'L' SERIES SHEETS

1. CONTRACTOR SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
3. FIELD VERIFY LOCATION OF ALL EXISTING TREES.
4. PROVIDE PROTECTION FOR TREES AND SHRUBS TO BE PRESERVED. SEE SHEET L1.1.
5. WALLS, WALKS, AND ALL IMPROVEMENTS TO BE STANCED IN THE FIELD BY THE CONTRACTOR AND FINAL LOCATION APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO CONSTRUCTION.
6. WRITTEN DIMENSIONS WILL PREVAIL ON THIS LAYOUT PLAN. DO NOT SCALE FROM THIS PLAN.
7. REPORT ANY DISCREPANCIES IN THE BASE SURVEY TO LANDSCAPE ARCHITECT IMMEDIATELY.

GRADING - GENERAL NOTES - TYPICAL ALL 'L' SERIES SHEETS

1. PROPOSED GRADING SHALL MEET EXISTING GRADES UNIFORMLY WITH A SMOOTH TRANSITION.
2. ALL AREAS DISTURBED BY GRADING OPERATIONS TO BE FINE GRADED AND REVEGETATED.
3. PRIOR TO CONSTRUCTION OF WALLS, VERIFY ACTUAL FINISHED GRADE ELEVATIONS IN THE FIELD AND ADJUST TOP-OF-WALL ELEVATIONS AS NEEDED TO MAINTAIN THE WALL HEIGHTS INDICATED ON THESE DRAWINGS.
4. ALL GRADING OPERATIONS WILL BE CONFINED WITHIN PROPERTY BOUNDARIES OR THE LIMITS OF GRADING AS INDICATED.
5. VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
6. ANY DISCREPANCIES FOUND BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
7. COMPACTION SCHEDULE:
   - AREAS
     - DENSITY
       - LAWN AREAS
         - 90%
       - PLANT BED AREAS
         - 80%
     - EXISTING GRADE 2:1
6. ALL UNDERGROUND UTILITIES SHALL NOT EXCEED A 4% DOWN SLOPE AND 1.9% CROSS SLOPE.
8. CONTRACTOR TO REVEGETATE ALL AREAS OF GRADING DISTURBANCE AS SHOWN ON THIS SHEET.
9. ALL AREAS SHALL BE FINE GRADED AND REVEGETATED.
10. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF TURF PER THIS REVEGETATE REQUIREMENT.
11. RYE VARIETIES ARE NOT ACCEPTABLE GRASSES FOR PERMANENT STABILIZATION MEASURES.

GRADING LEGEND
- EX=EXISTING
- HP=HIGH POINT
- LP=LOW POINT
- B=BASE
- BCL=BOTTOM OF COLUMN
- TDC=TOP OF CURB
- (INTERIOR OF PLAYGROUND)
- TM=TOP OF WALL
- BN=BOTTOM OF WALL
- TS=TOP OF STAIR
- FG=FINISHED GRADE
- TG=TOP OF PAVEMENT
- SG=SUB GRADE OF PLAYGROUND
- TFZ=TOP OF FALL ZONE
- INV=INSERT

All written dimensions will prevail on this layout plan.
1. Grind all welds smooth.

2. All steel to be painted black.

3. Contractor to provide shop drawings/submittals for approval prior to fabrication.

4. See written specification for size and weight.

5. Fence post footing, plunger rod guide, and plunger rod attachment.

6. Angle barbed wire arm for stainless steel barbed tape.

7. Typical stretch to engage plunger forking, attached to plunger rod guide, attached to gate post opposite gate to rail and 14" O.C.

8. Typical corner post fencing.

9. Typical stretcher bar attachment at corner post.

10. Typical horizontal brace rail attachment at corner post.

11. Control maintenance gate.

12. Chain link fence detail.

13. Chain perimeter metal socket fence.
PLANTER WALL FOUNDATION

GRADE WITH SELECT FILL. COMPACT TO 95%. MAINTAIN A 24" SELECT FILL THICKNESS BELOW ALL FOOTINGS.

SCARIFY AND RE-COMPACT THE RESULTING SUB-GRADE TO A DEPTH OF 6" AND BUILD BACK TO STRIP TOPSOIL AND REMOVE 24" OF CLAY SUB-SOILS BELOW BOTTOM OF FOOTER/BEAM.

DETAILS - SITE

6" COMPACTED BASE
24" CENTERS
#3'S @

6" MODIFIED SUBGRADE (LIME);
8X8X16 CMU
2 1/2" MINIMUM THICKNESS
8" MORTAR JOINT

TURF
METAL PING TO STONE SURFACE
ARCHITECT FOR APPROVAL PRIOR TO FABRICATION AND INSTALL.

GROUT FILLED CAVITIES - TYP (150-300MM) BELOW SUB-BASE.
LIGHTLY SAND ALL SURFACES TO BE PAINTED. PAINT ALL STEEL SURFACES W/ SHERMAN

NOTE:
PIN MOUNTED LETTERING,
6" MODIFIED SUBGRADE (LIME);
8X8X16 CMU
2 1/2" MINIMUM THICKNESS
8" MORTAR JOINT

3" COLOR: CREAM
PLANTING MIX - SEE SPECIFICATIONS
4" CAST STONE CAP;
REINF. WITH (1)
8 X 8 X 16 CMU WITH #4 IN CONCRETE FILLED CELLS;
BEAM - TOP COURSE;
LOW WEB BOND

SCALE: 1"= 1'-0"
SCALE: 1/2" = 1'-0"
ELEVATION
SCALE: 1/2" = 1'-0"
PART I - DESIGN CRITERIA

A. GENERAL BUILDING CODE

1. The Consumer's Contract is based on the requirements of the International Building Code (IBC) and the International Fire Code (IFC) as adopted by the City of New Braunfels.

B. MINIMUM BUILDING CODES

a. Minimum building codes shall be those of the City of New Braunfels, as amended from time to time.

C. LOCAL CODES

a. The construction requirements of the City of New Braunfels, as adopted from time to time, shall be met.

D. DURABILITY

1. All materials shall comply with the requirements of the American Society for Testing and Materials (ASTM) as set forth in the drawings.

E. MATERIALS

1. Materials shall be selected and used in accordance with the limitations of the construction drawings.

PART II - FOUNDATION

A. GENERAL

1. The foundation design shall be determined by the structural engineer.

B. FOOTINGS

1. Footings shall be designed to carry the dead and live loads specified in the drawings.

C. PIER FOUNDATIONS

1. Pier foundations shall be designed to carry the dead and live loads specified in the drawings.

D. PIER FOUNDATIONS

1. Pier foundations shall be designed to carry the dead and live loads specified in the drawings.

E. PIER FOUNDATIONS

1. Pier foundations shall be designed to carry the dead and live loads specified in the drawings.

F. WIREWORK

1. Wirework shall be designed to carry the dead and live loads specified in the drawings.

G. Trailer Foundation

1. Trailer foundation shall be designed to carry the dead and live loads specified in the drawings.

H. CARTON FORMS

1. Carton forms shall be designed to carry the dead and live loads specified in the drawings.

PART III - REINFORCED CONCRETE

A. GENERAL

1. All reinforced concrete members shall be designed in accordance with the American Concrete Institute (ACI) Code 318-2018.

B. SCOUR CRITICAL DESIGN CRITERIA

1. Scour critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

C. WAVE CRITICAL DESIGN CRITERIA

1. Wave critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

D. COMBINED CRITICAL DESIGN CRITERIA

1. Combined critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

E. PIER CRITICAL DESIGN CRITERIA

1. Pier critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

F. DECK CRITICAL DESIGN CRITERIA

1. Deck critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

G. FOOTING CRITICAL DESIGN CRITERIA

1. Footing critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

H. WALL CRITICAL DESIGN CRITERIA

1. Wall critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

I. COLUMN CRITICAL DESIGN CRITERIA

1. Column critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

J. BEARING PLATE CRITICAL DESIGN CRITERIA

1. Bearing plate critical design criteria are based on the requirements of the American Concrete Institute (ACI) Code 318-2018.

PART IV - CONCRETE MASONRY

A. EXTENSION TOLERANCES

1. Extension tolerances shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

B. EXTERNAL FLEXURAL STRESSES

1. External flexural stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

C. INTERNAL FLEXURAL STRESSES

1. Internal flexural stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

D. BENDING STRESSES

1. Bending stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

E. SHEAR STRESSES

1. Shear stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

F. TORSIONAL STRESSES

1. Torsional stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

G. axial stresses

1. Axial stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

H. CURVATURE STRESSES

1. Curvature stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

I. VOLUMETRIC STRESSES

1. Volumetric stresses shall be determined in accordance with the requirements of the American Concrete Institute (ACI) Code 318-2018.

PART V - STRUCTURAL STEEL

A. CONNECTIONS

1. Connections shall be designed in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

B. CONNECTIONS

1. Connections shall be designed in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

C. CONNECTIONS

1. Connections shall be designed in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

D. CONNECTIONS

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I. CONNECTIONS

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PART VI - STEEL JOISTS

A. BOLT INSTALLATION

1. Bolt installation shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

B. BOLT INSTALLATION

1. Bolt installation shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

C. BOLT INSTALLATION

1. Bolt installation shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

D. BOLT INSTALLATION

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1. Bolt installation shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

PART VII - STEEL DECKS

A. DECK DESIGN

1. Deck design shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

B. DECK DESIGN

1. Deck design shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.

C. DECK DESIGN

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H. DECK DESIGN

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I. DECK DESIGN

1. Deck design shall be in accordance with the requirements of the American Institute of Steel Construction (AISC) Code.
PART X - MISCELLANEOUS

4. Refer to drawings other than Structural for complete information including:

- Types of floor slab finishes
- Seismic on the structure during construction. The required structural elements are:
- Temporary, construction and environmental forces per ASCE 37 including but not limited to wind and
- Contractor to design and provide all required bracing during construction to maintain the stability and
- Required code vertical and lateral forces that could occur in the final completed structure only. The
- The lateral force resisting systems and diaphragms described below. It is the responsibility of the

- Composite Frames: A steel frame that relies on concrete elements for stability.

PART XII - DRAWING INTERPRETATION

1. Any materials or products submitted for approval that are different from the material or products

2. Exterior Window Wall System (S&S, REC)

3. Retaining Walls

4. PLINTHS, ALL

5. UNDERREAMED FOOTINGS 3,000 PSI AT 56 DAYS NWC C1 N/A N/A 40-70% 1-1/2"

6. DRILLED PIERS 3,000 PSI AT 56 DAYS NWC C1 N/A N/A 40-70% 1-1/2"

7. 5. WHERE INDICATED IN THE "ADDITIONAL REMARKS" COLUMN OF THE TABLE ABOVE, CONCRETE SHALL INCLUDE SHRINKAGE REDUCING ADMIXTURE

8. ALL CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE CLASS F0, S0, W0, AND C0 ACCORDING TO ACI 318-14 UNLESS NOTED OTHERWISE IN

9. TABLE ABOVE, IN NOTES BELOW, OR ELSEWHERE ON THE STRUCTURAL DRAWINGS.

10. CLASSES OF CONCRETE MATRIX

<table>
<thead>
<tr>
<th>CONCRETE GRADE</th>
<th>MINIMUM COMPRESSIVE</th>
<th>CONCRETE TYPE</th>
<th>EXPOSURE CLASS</th>
<th>SHEAR STRENGTH</th>
<th>PERMISSIBLE DEFORMATION</th>
<th>MODULUS OF ELASTICITY</th>
<th>MODULUS OF RIGIDITY</th>
<th>ADDITIONAL REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,000 PSI AT 56 DAYS NWC</td>
<td>C1 N/A N/A 40-70% 1-1/2&quot;</td>
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<tr>
<td>4,000 PSI AT 28 DAYS NWC C1 N/A</td>
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<td>5,000 PSI AT 28 DAYS NWC</td>
<td>C1 N/A N/A 40-70% 1-1/2&quot;</td>
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<tr>
<td>6,000 PSI AT 28 DAYS NWC</td>
<td>C1 N/A N/A 40-70% 1-1/2&quot;</td>
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<tr>
<td>7,000 PSI AT 28 DAYS NWC</td>
<td>C1 N/A N/A 40-70% 1-1/2&quot;</td>
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11. PART XI - MISCELLANEOUS

12. CONTRACT DOCUMENTS

13. CONTRACT DRAWINGS

14. CONTRACTORS

15. RENMARKS

16. TECHNICAL DESCRIPTIONS AND SPECIFICATIONS

17. STRUCTURAL ACCURACY, SYMBOLS AND VICTUALS

18. Basic table for which alternatives, samples, and materials will be considered

PART X - SUBMITTALS

1. The General Contractor shall submit a detailed breakout of all work items to the Owner and Superintendent for the purpose of maintaining a complete set of drawings that are consistent throughout the entire project. The General Contractor shall not be relieved of the obligation to supply a complete set of drawings to the Owner and Superintendent.

2. The General Contractor shall also submit a complete set of drawings and specifications for all work items to the Owner and Superintendent for the purpose of maintaining a complete set of drawings that are consistent throughout the entire project. The General Contractor shall not be relieved of the obligation to supply a complete set of drawings to the Owner and Superintendent.

3. All submittals shall be prepared in accordance with the International Code Council (ICC) and the National Fire Protection Association (NFPA) standards.
1. NOTES

- REFER TO "NOTES FOR TYPICAL CLEAR CONCRETE COVER FOR REINFORCING STEEL" FOR ADDITIONAL INFORMATION.

2. "2" TOP (#6 BARS AND LARGER)

3. "1 1/2" TOP (#5 BARS AND SMALLER)

4. "0" SIDES/ENDS

5. "3" EARTH FORMED

6. "FORMED"

7. "SIDE COVER FOR DEEP FOUNDATIONS CAST INSIDE OF PERMANENT STEEL CASING"

8. "SHALL BE MEASURED FROM INSIDE FACE OF CASING."

9. "SIDE COVER FOR DEEP FOUNDATIONS CAST INSIDE OF PERMANENT STEEL CASING"

10. "REFER TO "NOTES FOR TYPICAL CLEAR CONCRETE COVER FOR REINFORCING STEEL" FOR ADDITIONAL INFORMATION."
BIM 360://S02-19024-00 New Braunfels Police Department/S02-19024-00_NBPD_v20.rvt

Foundation Plan - Level 01

1/8" = 1'-0"
FRAMING PLAN - MANSARD ROOF
HOLES IN STANDARD

(2) 3/4"Ø A325 BOLTS WELD TO CHANNEL.

STIFF PL 3/8x4.

C8, REF PLAN

10

C8, REF PLAN

15

W8 BEAMS: PL 3/8x4x0'-6" WITH (2) 3/4"Ø BOLTS A325 BEARING BOLTS IN SHORT SLOTTED

W12 BEAMS: PL 3/8x4x0'-9" WITH (3) 3/4"Ø BOLTS A325 BEARING BOLTS IN SHORT SLOTTED

W18 BEAMS: PL 3/8x4x1'-3" WITH (5) 3/4"Ø BOLTS A325 BEARING BOLTS IN SHORT SLOTTED

L6x4x3/8

CONT 6x4x3/8

L4x4x1/4 AT EA BEAM

5/16 TYP

1/4 1 1/2 EA SIDE OF WEB

1/4 3 EA SIDE

3/8" STIFF PL

3/4" Ø A325 BOLTS

PL 3/8x11

3/8"Ø A325 BOLTS

PL 5/8x12x1'-6"

1/4 TYP

3 1/2" 3" 2"

PL 3/8

5/16

5/16 TYP

3" 4" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8

1/4 TYP

3 1/2" 3" 2"

PL 3/8
PLACED OVER VAPOR BARRIER. PLACE VAPOR BARRIER ON 6" OF GRANULAR FILL.

EXCAVATE AND CUT EXISTING GRADE TO AN ELEVATION OF 642' - 6". BRING GRADE TO 652' - 0" WITH COMPACTED SELECT FILL.

THE TOP OF 6" GRANULAR FILL SHALL BE AT 652' - 6".

REFERENCE GENERAL NOTES AND SPECIFICATIONS.

DO NOT SAWCUT SLAB.

EXTEND COMPACTED SELECT FILL A MINIMUM OF 5'-0" PAST THE BUILDING FACE AT THE BOTTOM OF EXCAVATION (TYP).

6'-6" x 6'-6" x 2'-0" DEEP FOOTING. REINFORCE WITH #6@12" EA WAY TOP AND BOTTOM. TOP OF FOOTING ELEVATION TO MATCH BOTTOM OF GRADE BEAM ELEVATION. TYPICAL.

MINIMUM EXTENT OF COMPACTED SELECT FILL PAD AT THE BOTTOM OF EXCAVATION. TYPICAL CENTER FOOTING ON PEMB COLUMN BASE PLATE. GENERAL CONTRACTOR TO COORDINATE PEMB BASEPLATE SIZE WITH THE MANUFACTURER.
1. PROVIDE ONE SET OF VERTICAL SCHEDULED BEAM

3. ACCEPTABLE CONSTRUCTION JOINT LOCATIONS.

GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS.

PLAN DIMENSION:

25" TO 30"

2'-6" TYPICAL

REF TO NOTE 2

MINIMUM GROUT THICKNESS:

3 1/2"

2 1/2"

COLUMN

EACH LAYER OF BEAM MAXIMUM

3 1/2" 4"

COLUMN BELOW SCHEDULED BEAM

REFER TO SECTION 00860-FN-GRTHK-01

DEPTH, D

D/3

PC60

PC42

NOTES

3. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY. SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.

WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.

INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE BEAM WIDTH.

AT EACH PENETRATION, REFER ADDITIONAL REINFORCEMENT TYPICAL WIDENED CONCRETE BEAM

TYPICAL CONSTRUCTION JOINT IN GRADE BEAM

TYPICAL CONSTRUCTION JOINT IN CONCRETE STRUCTURAL SLAB

TYPICAL GRADE BEAM REINFORCEMENT AT INTERSECTION

TYPICAL GRADE BEAM REINFORCEMENT AT CORNER

REFERENCES

DEEP REINFORCEMENT AND TIES

ADDITIONAL REINFORCEMENT

NOTES

1. BAR PLACEMENT PLANS REFER TO PLAN FOR WIDENED DIMENSION "A".

2. CONCRETE SURFACE AT CONSTRUCTION JOINT SHALL BE CLEAN AND FREE OF LAITANCE.

3. PILOT MARK JOINT LOCATIONS AND DOWEL REQUIREMENTS.

FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER FOR SPAN.

USE 2 ADDITIONAL DOWELS, EQUALLY OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE BEAM WIDTH.

4. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS LOCATE CRITERIA:

a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS LOCATE SPACING, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

b. FOR BEAMS SUPPORTING INTERSECTING BEAMS CHECK WITH STRUCTURAL ENGINEER FOR WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.

5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING

- 2'-6" TYPICAL

- 36" ≤ A ≤ 48"

- 2'-6" TYPICAL

- 30° ≤ A ≤ 150°

- TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM

- TYPICAL HORIZONTAL PENETRATION IN CONCRETE BEAM

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NOTES:
1. WHERE GRADE BEAMS OF UNEQUAL DEPTH FRAME INTO THE SAME SUPPORT, TOP OF SUPPORT SHALL BE AT THE BOTTOM OF DEEPEST GRADE BEAM. POUR SHALLOWER BEAM DOWN ONTO SUPPORT.

2. AT CONTRACTOR'S OPTION, EXTEND PLINTH VERTICAL REINFORCEMENT INTO GRADE BEAM WITHOUT SPLICE (IN LIEU OF DOWELS). WIDEN GRADE BEAM AS REQUIRED TO ENSURE 3" MINIMUM CLEAR COVER ALL AROUND.

TOP OF SLAB REFER TO PLAN

TOP OF GRADE BEAM REFER TO PLAN

TOP OF PLINTH/PIER (NOTE 1)

PROVIDE 2 - #5 DOWELS ON EACH SIDE OF GRADE BEAM EMBEDDED 2'-6" INTO PLINTH/PIER PLINTH/PIER, REFER TO OTHER DETAILS FOR REINFORCEMENT

DISCONTINUE CARTON FORMS AT FACE OF SUPPORT
SLAB-ON-GRADE, REFER TO PLAN FOR THICKNESS AND REINFORCEMENT AND REFER TO SPECIFICATIONS FOR CURING METHOD.

DO NOT SAWCUT SLAB.

VAPOR RETARDER DIRECTLY BELOW SLAB.

COMPACTED SELECT FILL DRAINAGE FILL, REFER TO SPECIFICATIONS.

6'-0" ANNEX LEVEL 1

4-#7 CONT TOP AND BOT WITH #3 TYPE S16 TIES@ 12"
TYP AT INTERIOR GRADE BEAMS.

HOOK SLAB REINF AT EDGES.

6" 2'-10" 1 1/2"

6-#7 DOWELS AT EA COL. HOOK BOTH ENDS.
SPACE AT 9" CENTERS IN 2x3 ARRAY.

PMB, BY OTHERS REF ARCH.

BASE PLATE AND ANCHOR RODS, BY PEMB MANUFACTURER.
SHALL BE BY SHEAR/BEARING, TYPICAL

FILE NAME: 4.

2.

1.

NOTES

NO SCALE

SHEAR CONNECTION

TYPICAL BEAM-TO-BEAM CONNECTION LENGTH SHALL BE AT LEAST 1/2 OF THE SUPPORTED BEAM MINIMUM FILLET WELD SIZE SHALL BE 5/8 TIMES THE PLATE THICKNESS.

PROVIDE PREDESIGNED CONNECTIONS AS SHOWN IN AMERICA REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.

NOTE 4

SHEAR AS REQUIRED TO

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05120-CN-BMBM-02 2019

SUPPLIER OPERABLE WALL HEAD INTO REQUIRED TO FOR SIZES BRACING (IF REFER TO TABLE WT8x18 TO CONTINUOUS HANGER/BRACES BEAM IS CENTERED 1/4

1/4 3 1/2" (5" @ SCHEDULED DETAIL DETAILS CLADDING SUPPORTING BRICK ONLY

L7x4x3/8 NOTE 8

L6x3 1/2x5/16

L4x3 1/2x5/16

7x5x5/16

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05120-FL-CMPBM-13 2018

NUMBER DATE DESCRIPTION

ARCHITECT

CONSULTANT

CLIENT

NEW BRUNSWICK POLICE DEPARTMENT

PROJECT LOCATION

3030 W San Antonio St

PROJECT NUMBER

08/21/2020

PGAL

2222 Western Trails Blvd

1005

09/30/2020

New Braunfels Police Department

DWORDS IND 3 215.2008.0130

S4.02

TYPICAL DETAIL ELEVATOR GUIDE RAIL BRACING STEEL STRUCTURE
SEPARATE DECK UNITS OVER FLANGE

5/8" Ø PUDDLE 1" MINIMUM

DECK NO SCALE

TYPICAL COMPOSITE SPAN 1" MINIMUM

UNITS OVER FLANGE TYPICAL

FLANGE BEAM TOP S 4'-0" MAXIMUM

HAUNCH OVER 4" MINIMUM

GIRDER WELD @12"

NORMAL SIDE LAP ON FLANGE NOT

WELD @12" 5/8" Ø PUDDLE

DECK

REFER TO SPECIFICATIONS LAP SLAB REINFORCEMENT, JOINT PARALLEL TO DECK FLUTES

CONSTRUCTION JOINTS PERPENDICULAR TO DECK FLUTES SH ALL BE LOCATED AT THE CENTER OF THE STEEL DECK SPAN.

CONSTRUCTION JOINTS PARALLEL TO DECK FLUTES SHALL BE LOCATED NO CLOSER THAN 5' PROVIDE REMOVABLE VERTICAL FORMED BULKHEAD SET IN LOWER FLUTE. BULKHEAD MUST EXTEND FULL DEPTH OF SLAB WITH SLAB:

SLAB REINFORCEMENT BULKHEAD TO FOLLOW STEEL JOINT PERPENDICULAR TO DECK FLUTES REFER TO NOTE 1 SLAB REINFORCEMENT

SLAB REINFORCEMENT CONTINUOUS SLAB BOLSTERS TEMPERATURE REINFORCEMENT

REFER TO SPECIFICATIONS

REINFORCEMENT INDIVIDUAL BAR CHAIRS (CRSI TYPE BC) TO SUPPORT TEMPERATURE (CRSI TYPE SB) @48" MAXIMUM

SINGLE STUD ORIENTATION NEAREST SUPPORT 4 x STUD DIAMETER

STUD "WEAK" POSITION

BEAM CENTERLINE 4'-0" MAXIMUM

STUD "STRONG" POSITION

STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED UNLESS NOTED OTHERWISE, ALL BEAMS SHALL HAVE SHEAR CONNECTORS SPACED AT 24" MAXIMUM. REFER TO GENERAL NOTES FOR PLAN NOTATION. THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C. N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG: DECK STIFFENING

NOTE 7

NOTE 6

USE THIS DETAIL WHEN DECK CHANGES DIRECTION.

1ST ROW (TYPICAL) 2' MINIMUM

2ND ROW (TYPICAL) 2' MINIMUM

3RD ROW (TYPICAL) 2' MINIMUM

ADDITIONAL SHEAR SPACING, REFER TO NOTE 4

CASE A

CASE B

CASE C

CASE A

CASE B

CASE C

CASE D

ADDITIONAL #4x8' FOR STEEL DECK (CRSI CONTINUOUS HIGH CHAIRS)

NOTE 7

NOTE 6

NOTE 1

NOTES

SHEET 10 OF 10

SHEET NUMBER S4.03

SHEET TITLE

NEW BRAUNFELS POLICE DEPARTMENT

NEW BRAUNFELS, TX 78130

CONSULTANT

WALTER P. MOORE AND ASSOCIATES, INC.

DEPARTMENT

NEW BRAUNFELS

NEW BRAUNFELS, TX

08/21/2020

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08/21/2020 ISSUE FOR PERMIT AND CONSTRUCTION

TBPE REG. No. F-2742

TBPE Firm Registration No. 1856

Walter P. Moore and Associates, Inc.

(512) 236-2222

(830) 221-0505

www.pgalandm.com

SHEET NUMBER

SHEET TITLE

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SHEET NUMBER

SHEET TITLE
OPPOSITE FLANGE IF M/about MOMENT IS SHOWN ON DRAWINGS, PARTIAL PENETRATION WELD TO DEVELOP MOMENT CAN SIGNIFICANTLY UNBALANCED (M + M >>0), STRENGTHEN COLUMN WEB AS REQUIRED.

WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM MOMENTS ARE MINIMUM, FILLET WELD SIZE FOR SINGLE PLATE SHEAR CONNECTIONS SHALL BE 5/8 TIMES STEEL CONSTRUCTION MANUAL WHERE APPLICABLE.

PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.

TIGHTEN BOLTS PRIOR TO WELDING FLANGES AND PRETENSION AFTER WELDING FLANGES.

SUPPORT REACTION, REFER TO ARCHITECTURAL DRAWINGS.

FABRICATOR SHALL APPLY DETAIL C ONLY WHEN LOCATION OF WORKPOINT MUST BE ASSUMED LOCATION OF WORKPOINT TO BE AT COLUMN FLANGE.

SUBMITTAL. DETAIL C SHALL NOT BE USED FOR LOADS GREATER THAN 40K.

LOCATION OF WORKPOINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO SHOP DRAWING.

CONNECTION AS SPECIFIED IN DETAIL B WHERE CLEARANCE DOES NOT EXIST FOR DETAIL A TO APPLY.

RESISTANCE BY BOLTS TO SHEAR SHALL BE BY SHEAR/BEARING.

WHERE:

- Fy = YIELD STRENGTH OF BEAM (KSI).

- $b = \text{WIDE BEAM WIDTH}$

- $t = \text{PLATE THICKNESS}$

- $D = \text{BEAM SECTION DEPTH}$

- $\theta = \text{BEAM SECTION TILT}$

- $\alpha = \theta > 60°$

- $\beta = \theta < 60°$

- $\Delta = \theta > 57.25°$

- $\gamma = \theta < 57.25°$

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1. **NOTES**

1/8 1 1/2-12

ALL JOIST SEAT WELDS AS PER AISC MINIMUM OR AS REQUIRED TO DEVELOP JOIST REACTION, WHICHEVER IS GREATER.

THIS DETAIL FOR USE WITH K SERIES JOISTS ONLY.

STEEL DECK WELD STEEL DECK

TYPICAL DECK AND JOIST BRIDGING CONNECTIONS AT CHANGE IN STEEL DECK DIRECTION

WIDE FLANGE COLUMN

TYPICAL SLOPING JOIST CONNECTIONS AT INTERIOR STEEL BEAM

STEEL JOIST TOP CHORD

TYPICAL JOIST BRIDGING CONNECTION TO INTERIOR STEEL BEAM

TYPICAL JOIST CONNECTION AT INTERIOR STEEL BEAM

TYPICAL STIFFENING OF JOIST FOR CONCENTRATED LOADS

TYPICAL DECK AND JOIST BRIDGING CONNECTIONS AT CHANGE IN STEEL DECK DIRECTION

TYPICAL BEAM BOTTOM FLANGE BRACE (STEEL JOIST CONSTRUCTION)
1. SLOT IN HSS MEMBERS SHALL BE CUT WITH THE TOLERANCES SHOWN IN NOTES.

2. CONTRACTOR SHALL INCREASE THE LEGS OF THE FILLET WELD BY AN AMOUNT EQUAL TO THE DIMENSION OF THE GAP OR OPENING BETWEEN THE PLATE AND THE EDGE OF THE SLOT IN THE HSS SECTION.

3. THE DETAIL (SLOT SHALL NOT BE OVERCUT).

4. CHECK BEAM WEB FOR COMBINED SHEAR \( P_{h1} + P_{h2} \) AND TENSION COMPONENTS OF THE BRACE FORCE.

5. GUSSET PLATE INTERSECT HSS MEMBER WALLS.

6. CHECK BEAM WEB FOR WEB CRIPPLING AT THE END OF THE COMPONENT (SLOT) SHALL NOT BE OVERCUT).

7. CHECK BEAM WEB FOR HORIZONTAL SHEAR \( P_{h} \) AND MOMENT \( M = P_{h} \times E_{1} \).

8. THE ANGLES.

9. CHECK BEAM WEB FOR HORIZONTAL SHEAR \( P_{h1} + P_{h2} \) AND MOMENT \( M = (P_{h1} + P_{h2}) \times E_{1} \).

10. SHAPERD WELD.

11. COLUMNS ARE DESIGNATED BY THEIR CENTROID, BOLTS SHALL BE DESIGNED FOR COMBINED ANGLES B" SHALL BE CHECKED FOR SHEAR IN GROSS AND NET SECTION.

12. THE ANGLES.

13. THE ANGLES.

14. "WELD C" FOR THE COMBINED EFFECTS OF SHEAR \( P_{h1} + P_{h2} \) AND MOMENT \( M = (P_{h1} + P_{h2}) \times E_{1} \).
1. Coordinate waterproofing and required fire rating of control joints with architect.

2. Use half blocks at alternate courses so joints are consistent through walls.

3. Typical CMU vertical bar placement.

4. Typical CMU vertical bar tension development and lap splice lengths.

5. Typical CMU wall intersections and wing walls.

6. Typical interior non-loadbearing CMU lintels.

7. Typical CMU wall dowel requirements.

8. Typical interior non-loadbearing CMU lintels.

9. Typical CMU wall intersections and wing walls.

10. Typical bond beam at wall intersection.

11. Typical masonry bond beam.
### Exterior Materials

#### Masonry
- **Description**: Composite Cladding
- **Color**: TBD
- **Size**: TBD
- **Mfr**: Alliance or similar
- **Notes**: Stone Cornices

#### Precast Concrete Fence
- **Description**: Masonry Base
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Stucco
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Vinyl Tile
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Rubber Base
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Resilient Sheet
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Static Dissipative
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Composite Cladding
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Metal Panel
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Roofing
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Metal Roof
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Interior Materials

#### Floors

#### Floor Tile
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Base

#### Wall Tile
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Paint
- **Description**: TBD
- **Color**: TBD
- **Style**: TBD
- **Mfr**: TBD
- **Notes**: TBD

#### Millwork/Doors

#### Ceiling

#### Window Shades

#### Miscellanea

#### General Notes - Materials

- **Drawings Available For Material Submittal:**
- **Approval:**

---

**Notes:**

- **Legend:**
- **Scale:**
- **Location:**

---

**Project Number:**

- **SCHEDULE:**

---

**Material Approval:**

- **Drawings:**

---

**Written By:**

- **Prepared By:**

---

**General Notes:**

- **Approval:**
- **Spreads:**

---

**Location & Scale:**

- **Project Location:**
- **Scale:**

---

**Materials:**

- **Legend:**
- **Scale:**

---

**Notes:**

- **Legend:**
- **Scale:**

---

**Material Approval:**

- **Drawings:**

---

**General Notes:**

- **Approval:**
- **Spreads:**
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<thead>
<tr>
<th>Space Description</th>
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<th>Size</th>
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<td>1616 WOMENS SHOWER</td>
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<td>1615 WOMENS LOCKER ROOM</td>
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<td>A112 CIRCULATION SC01 RB01 PT01 PG01/STR1 - SEE RCP</td>
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Project Information:
- **Location:** New Braunfels, TX
- **Client:** New Braunfels Police Department
- **Architect:** Christopher Ruebush
- **Date:** 2020/09/30
- **Website:** www.pgals.com

Additional Information:
- **Key Plan:**含まれตำแหน่งที่สำคัญ
- **Architectural Services:** ได้รับบริการจากบริษัท PGAL สาขา New Braunfels, TX 78130
- **Project Number:** 0A.25
**GENERAL NOTES - DOORS**

- **TORCHINO ALUMINUM (BULLET RESISTANT)**
- **HOLLOW METAL (BURGLAR RESISTANT)**
- **FULL GLASS PANEL, SINGLE, BULLET RESISTANT**
- **FULL GLASS PANEL, DOUBLE, BALANCED**
- **PARTIAL GLASS PANEL**
- **NARROW VISION PANEL**
- **FLUSH PANEL**
- **BULLET RESISTANT**
- **BALLISTIC HOLLOW METAL**
- **HOLLOW METAL**
- **SOLID CORE WOOD**
- **BALLISTIC, BULLET RESISTANT**

**FRAME MATERIAL**

- **AL** ALUMINUM
- **HM** HOLLOW METAL

**FRAME FINISH**

- **AL** ALUMINUM - DARK ANODIZED
- **PG** PAINT (REFER TO FINISH LEGEND)
- **FG** FINISH LEGEND

**DOOR PANEL TYPE**

- **PO** FULL GLASS PANEL, SINGLE
- **PGD** FULL GLASS PANEL, DOUBLE, BULLET RESISTANT
- **PGS** FULL GLASS PANEL, DOUBLE, BALANCED
- **F** FLUSH PANEL, SINGLE
- **PD** PARTIAL GLASS PANEL, DOUBLE

**DOOR PANEL MATERIAL & FINISH**

- **HM** HOLLOW METAL
- **HM** HOLLOW METAL
- **PG** PARTIAL GLASS PANEL, DOUBLE

---

**FRAME CONFIGURATION**

<table>
<thead>
<tr>
<th>TRANSLITE</th>
<th>SIDELITE</th>
<th>TRANSOM</th>
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<td>Transom</td>
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**DRAWING HISTORY**

<table>
<thead>
<tr>
<th>№. DATE DESCRIPTION</th>
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<tbody>
<tr>
<td>2020/08/21 ISSUE FOR PERMIT AND CONSTRUCTION</td>
</tr>
<tr>
<td>2020/08/21 NEW BRAUNFELS, TX 78130</td>
</tr>
<tr>
<td>Size</td>
</tr>
<tr>
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</tr>
<tr>
<td>12'-0&quot;</td>
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<tr>
<td>3'-0&quot;</td>
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<tr>
<td>6'-0&quot;</td>
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<tr>
<td>3'-0&quot;</td>
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<td>3'-0&quot;</td>
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</table>
## WINDOW SCHEDULE

<table>
<thead>
<tr>
<th>WINDOW TYPE</th>
<th>DESCRIPTION</th>
<th>DETAILS</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>4'-11 1/4&quot; 7'-10&quot; 15 17 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W2</td>
<td>3'-6&quot; 4'-6&quot; 1/A0.46 2/A0.46 3/A0.46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>10'-0&quot; 9'-0&quot; 1 2 &amp; 3 4/5, RE: BLDG ELEVS. CONFIRM SL AB ELEVATION AT WINDOW PLAN LOCATION PRIOR TO FRAMING AND INSTALLATION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W4</td>
<td>8'-0&quot; 9'-0&quot; 1 2 &amp; 3 4/5, RE: BLDG ELEVS. CONFIRM SL AB ELEVATION AT WINDOW PLAN LOCATION PRIOR TO FRAMING AND INSTALLATION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W5</td>
<td>7'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W6</td>
<td>11'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W7</td>
<td>659'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W8</td>
<td>13'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W9</td>
<td>9'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W10</td>
<td>8'-0&quot; 7'-6&quot; 6 7 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W11</td>
<td>9'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>W12</td>
<td>13'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
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</tr>
<tr>
<td>W13</td>
<td>11'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
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<tr>
<td>W14</td>
<td>7'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
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<tr>
<td>W15</td>
<td>13'-0&quot; 7'-6&quot; 6 7 &amp; 8 10</td>
<td></td>
<td></td>
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<tr>
<td>W16</td>
<td>4'-11 1/4&quot; 7-10&quot; 15 16 &amp; 17 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W17</td>
<td>67'-8&quot; 7'-10&quot; 15 17</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>W18</td>
<td>675'</td>
<td></td>
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</tr>
</tbody>
</table>

## WINDOW TYPES

### GLAZING TYPES

<table>
<thead>
<tr>
<th>GLAZING TYPE</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>GL01</td>
<td>EXTERIOR VISION GLASS GUARDIAN SUNGUARD SUPERNEUT RAL SNX 51/23 CLEAR/CLEAR 0.27 0.23 51%</td>
<td></td>
</tr>
<tr>
<td>GL02</td>
<td>INTERIOR VISION GLASS TBD 1/4&quot; TEMPERED CLEAR</td>
<td></td>
</tr>
<tr>
<td>GL03</td>
<td>INTERIOR BULLET RESISTANT GLASS TBD CLEAR</td>
<td></td>
</tr>
<tr>
<td>GL04</td>
<td>INTERIOR VISION GLASS TBD 1/4&quot; TEMPERED CLEAR</td>
<td></td>
</tr>
</tbody>
</table>

### LOUVER SCHEDULE

<table>
<thead>
<tr>
<th>LOUVER TYPE</th>
<th>DESCRIPTION</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>OLDCASTLE RELIANCE DARK BRONZE ANODIZED 2-1/2 X 7-1/4 ALUM CURTAIN WALL</td>
<td></td>
</tr>
</tbody>
</table>
GENERAL NOTES - WINDOWS

1. ALL FRAMES TO BE PRE-FINISHED ALUMINUM W/SOLID PERIMETER FRAMING MEMBERS AND NOT OPEN PROFILE.

2. REFER TO FLOOR PLANS FOR LOCATION OF FRAME TYPES.

3. PROVIDE SILICONE SEALANT OVER BACKER ROD AROUND ALL FRAMES AND LOUVERS.

4. PROVIDE STAND OFF CLIPS AT ALL SPANDREL GLASS CONDITIONS.

5. PROVIDE 2" RIGID INSULATION AT ALL SPANDREL GLASS CONDITIONS.

6. INSTALL ALUMINUM MINI BLINDS AT ALL PRIVATE OFFICES AND CONFERENCE ROOM EXTERIOR WINDOWS, TYP.

7. REFER TO WINDOW SCHEDULE FOR INDIVIDUAL WINDOW FRAME TYPE AND FINISH.

WINDOW TYPES

- 3/8" = 1'-0"
- WINDOW TYPES

NB.

NOTE.

NEW BRAUNFELS POLICE DEPARTMENT

2020/08/21 ISSUE FOR PERMIT AND CONSTRUCTION
BACKER ROD AND SEALANT, BOTH SIDES
SHIM AS REQUIRED TO MAINTAIN BALLISTIC LEVEL 3 RATING
SCHEDULED ALUMINUM WINDOW

EQ 4 1/2" PARTITION

LEVEL 3 GLAZING
BALLISTIC-RATED ALUMINUM VOICE TUBE
QZ02 COUNTER 9" 1'-3"
FRONT MOUNTING SUPPORT BRACKET @ 24" OC MAX. GC TO VERIFY BLOCKING HAS BEEN PROVIDED FOR SUPPORT BRACKETS.
1. The graphic design requirements shown by the details on these sign type drawings are for design intent only and intended to establish basic dimensions of units or modules, profiles, and sight lines of members and appearance. Within these limitations, the signage contractor is responsible for the fabrication of the entire system, and to make whatever modifications of, and additions to the details as may be required. Maintain the visual design concept as shown including member sizes, profiles, and alignment of components as accurately as possible.

2. Message shown is schematic only. Provide message schedule for actual sign messages as approved by a design representative of the fabricator.

3. Fabricator to field verify and confirm measurements of all existing conditions, as they relate to the construction of the applicable design intent as depicted, prior to commencing fabrication. Notification of any inconsistencies will be required (to the owner and architect) and any required design alterations to be undertaken prior to fabrication.

4. Fabricator to submit detailed shop drawings and scaled copy layouts to architect/owner for final approval prior to fabrication.

5. Graphic panel to have applied/inset tactile room number and accompanying braille per ADA requirements. Braille dots to be clear; tactile letters to be painted color (TBD).

6. All interior sign type is back painted (color TBD by architect) 1/4" thick clear acrylic.

7. Panel to be fastened to the wall substrate with double sided tape. Any sign mounted to glass to be supplied and installed with V-2, backer mask to be mounted at opposite side of glass pane to conceal adhesives. Mask to be cut exactly mirror our terms of sign.

8. All signage to comply with Texas Accessibility Standards and ADA 2012.

---

**GENERAL NOTES - SIGNAGE**

1/2" = 1'-0"

**1 BUILDING ENTRY SIGNAGE**

**4 LOBBY SIGNAGE - INFORMATION & RECORDS**

**3 LOBBY SIGNAGE - TRAINING**

**2 LOBBY SIGNAGE - COMMUNITY**

**6 EXTERIOR BUILDING SIGNAGE DETAIL**
1 DETAIL - CANE BOLT

8 LOUVER BOX FRAME

1" = 1'-0"

3" = 1'-0"

NOTE - ALL STEEL TO BE GALVANIZED AND PAINTED.

1 PROOF V BLADE

EV30V 3" SITE

DESIGN: RUSKIN

FRAME; BASIS OF PREFINISHED TRIM. FINISH TO BACK OF DOOR

4'-6"

LOUVER (TYP)

BRACING ON WELDED "X"

9" 2'-3" 6" 1'-0"

CROSS PANEL

3" 6" 9"

2" TYP

1/2"

∅

DRAIN HOLES

(3 PER RIVETS @ 12" MAX SPACING (TYP)

1/8" x 1/2" STAINLESS STEEL GRIP SUPPORT

L3x3x SUPPORT LOUVER SUPPORT FRAME AS INDICATED. FILLET WELD ALL EACH END OF PLATE HOLES FOR CANE BOLT END TO ALLOW BOLT MOVEMENT

2 - 5/8" x 4" QUICK BOLTS

1/4" PLATE 4" x 1.02" W/ RECEPTION PLATE EACH END. DRILL HOLES IN CAP OF CANE BOLT)

PREVENT CANE BOLT THEFT

1" DIA. x 8" LONG BOLT

TS 2"x2" x 3/16" x 1.02" LONG W/ 1/4" GATE FRAME (OFFSET TO REST TOP FIELD WELD ON STOP TO TS 2"x2"x3/16" w/ 3/4" HOLE DRILLED 1/2" DIA. x 2" HEAD STUD WELDED TO BARREL BOLT W/ PAD LOCK

3 DUMPSTER ENCLOSURE ELEV - EAST

7 DETAIL - GATE AND FRAME

1/4" = 1'-0"

3" = 1'-0"

12.92

12.91

EQ 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" EQ

8" 12'-0" 8" 12'-0" 8"

12.92 DUMPSTER, BY OWNER

12.91 ILLUMINATED STEEL BOLLARD, RE: ELECTRICAL NUMBER DESCRIPTION

KEYNOTE LEGEND

LOUVER BOX FRAME

DETAIL - GATE AND FRAME

GATE HASP

GATE PLAN

DUMPSTER ENCLOSURE ELEV - EAST

DUMPSTER ENCLOSURE ELEV - NORTH

DUMPSTER ENCLOSURE

1 DUMPSTER ENCLOSURE ELEV - NORTH

5 GATE HASP

3/4"

A1.11

8'-0" CMU1 HINGES PER LEAF ZERT FITTING. PROVIDE 3 BEARING HINGE W/ GREASE ON STEEL BARREL BALL HEAVY DUTY WELD ALL SIDES HINGE TYP.

NOTCH SHEET METAL TRIM AT PRE 1/4 LOUVER SUPPORT L5X3 SMOOTH BOTH ENDS GRIND CORNERS SMOOTH BRACE RADIUS AND STRUC

STEEL POST, RE:

FINISHED METAL LOUVER
GENERAL NOTES - ROOF

1. PROVIDE A COMPLETE AND ACCURATE FIXTURE LIST OF THE FIXED MOUNTED ROOF IDEAS FOR EACH ROOF. ATTACH TO DRAWING. ADD TO THE NUMBERED LIST IN THE FUTURE. THIS LIST MUST INCLUDE ALL EXISTING FIXTURES AND ALL NEW FIXTURES.

2. PROVIDE ALL EXISTING FIXTURES TO THE DETAILS FOR EACH ROOF. ATTACH TO DRAWING. ADD TO THE NUMBERED LIST IN THE FUTURE. THIS LIST MUST INCLUDE ALL EXISTING FIXTURES AND ALL NEW FIXTURES.

3. PROVIDE A COMPLETE AND ACCURATE FIXTURE LIST OF THE FIXED MOUNTED ROOF IDEAS FOR EACH ROOF. ATTACH TO DRAWING. ADD TO THE NUMBERED LIST IN THE FUTURE. THIS LIST MUST INCLUDE ALL EXISTING FIXTURES AND ALL NEW FIXTURES.

4. PROVIDE A COMPLETE AND ACCURATE FIXTURE LIST OF THE FIXED MOUNTED ROOF IDEAS FOR EACH ROOF. ATTACH TO DRAWING. ADD TO THE NUMBERED LIST IN THE FUTURE. THIS LIST MUST INCLUDE ALL EXISTING FIXTURES AND ALL NEW FIXTURES.

LEGEND - ROOF

[Diagram with various symbols and notes]

Note: The image contains architectural plans for a roof with a focus on various details such as metal roofing, TPO membrane, and structural elements. The plans are detailed with measurements, notations, and symbols to provide a comprehensive view of the roof layout and requirements. The text includes general notes and requirements for the roof installation, detailing the need for a complete and accurate fixture list and the inclusion of existing and new fixtures. The diagram is complex, requiring careful analysis and understanding of the architectural and structural specifications.
1. PROVIDE CONTINUOUS R-25 ROOF RIGID INSULATION AT THE ENTIRE ROOF.

2. REFER TO MEP AND STRUCTURAL DRAWINGS FOR ADDITIONAL ROOF EQUIPMENT AND PENETRATIONS.

3. ROOF CRICKETS TO BE TAPERED INSULATION, SLOPE 1/2" PER FOOT MINIMUM.

4. PROVIDE CANT STRIPS AT ALL VERTICAL SURFACES.

5. PROVIDE 2'-0" WIDE WALKWAY PAD CONNECTION FROM ROOF ACCESS TO ALL MECHANICAL UNITS, LOUVER INTAKES AND EXHAUST ON ROOF.

6. ALL EXPOSED STEEL TO BE GALVANIZED AND EXPOXY PAINTED.

7. PROVIDE WALK PADS FROM ALL ROOF ACCESS DOORS AND HATCHES TO ALL ROOFTOP EQUIPMENT.
GENERAL NOTES - REF. CEILING PLAN

REFER TO MEP DRAWINGS FOR DESIGN OF THESE SYSTEMS: DUCT SIZES, LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT OF ANY CONFLICTS.

REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, AND ADA STROBE LOCATIONS, U.N.O. GENERAL CONTRACTOR TO COORDINATE WITH OWNER.

SUBMIT SPRINKLER HEAD LAYOUT SHOP DRAWINGS. ALL FIRE SPRINKLER HEADS AND ESCUTCHEONS TO BE FLUSH WITH CEILING.

REFER TO SHEET A1.11 AND ELECTRICAL DRAWINGS FOR SITE LIGHTING.

REFER TO SHEET G0.050 AND G0.060 FOR TYPICAL MOUNTING HEIGHTS.

PROVIDE BLINDS AT ALL INTERIOR AND EXTERIOR WINDOWS EXCEPT FOR ATRIUM GLASS. SEE SPEC FOR MORE INFO.

REFER TO SHEET A1.11 AND ELECTRICAL DRAWINGS FOR SITE LIGHTING.

REFER TO SHEET G0.050 AND G0.060 FOR TYPICAL MOUNTING HEIGHTS.

PROVIDE BLINDS AT ALL INTERIOR AND EXTERIOR WINDOWS EXCEPT FOR ATRIUM GLASS. SEE SPEC FOR MORE INFO.
GENERAL NOTES - PLANS

1. STANDARDS, AND STANDARD MOUNTING HEIGHTS. REFER TO SHEET A0.10 FOR PARTITION TYPES.

2. REFER TO A3.00 SERIES FOR REFLECTED CEILING PLANS.

3. REFER TO A6.00 SERIES FOR BUILDING ELEVATIONS.

4. REFER TO A7.00 SERIES FOR WALL SECTIONS AND DETAILS.

5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

6. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL FLOOR OPENINGS.

7. CENTERED IN ROOM U.N.O.

8. FACE OF ADJACENT WALL.

9. DRAWER

10. SIDE-BY-SIDE REACH-IN REFRIGERATOR/FREEZER

11. PANEL READY

12. DISHWASHER

13. STACKED WASHER/DRYER

14. ELICA EAS428S1 ASTI 28" IN-CABINET EXHAUST HOOD

15. SUMMIT FF7BKSSHVADA ADA UNDERCOUNTER REFRIGERATOR

16. STAINLESS STEEL

17. F.E.C.

18. STEEL

19. GROOMING

20. 1/4" = 1'-0"
1. REFER TO SHEET A0.20 & A0.25 FOR SCHEDULES, LEGENDS, NOTES, SYMBOLS, AND ABBREVIATIONS APPLICABLE TO THIS PLAN.

2. REFER TO MEP DRAWINGS FOR LIGHTING SCHEDULES.

3. REFER TO MEP DRAWINGS FOR DESIGN OF THESE SYSTEMS: DUCT SIZES, CIRCUITING, PLUMBING, ETC. REFLECTED CEILING PLAN TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT OF ANY CONFLICTS.

4. REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, AND ADA STROBE LOCATIONS, U.N.O. GENERAL CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE SAFETY, AND SECURITY DEVICES.

5. SUBMIT SPRINKLER HEAD LAYOUT SHOP DRAWINGS. ALL FIRE SPRINKLER HEADS AND ESCUTCHEONS TO BE FLUSH WITH CEILING.

6. INSTALL SPRINKLER HEADS, LIGHT FIXTURES, OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF ROOM OR CENTER OF CORRIDOR, U.N.O.

7. INSTALL EXITS, EXIT LIGHTS, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.

8. REFER TO SHEET A1.11 AND ELECTRICAL DRAWINGS FOR SITE LIGHTING.

9. REFER TO SHEET G0.050 AND G0.060 FOR TYPICAL MOUNTING HEIGHTS.

10. PROVIDE BLINDS AT ALL INTERIOR AND EXTERIOR WINDOWS EXCEPT FOR ATRIUM GLASS. SEE SPEC FOR MORE INFO.
8" MIN STEEL FRAMING SUSPENDED CEILING SYSTEM, RE: RCP
ACOUSTICAL CEILING ANGLE MOULDING
5/8" GYP BOARD, PTD.

4 1/8" STEEL FRAMING SUSPENDED CEILING SYSTEM, RE: RCP
ACOUSTICAL CEILING ANGLE MOULDING
5/8" GYP BOARD, PTD.

1'-3" MIN STEEL FRAMING SUSPENDED CEILING SYSTEM, RE: RCP
ACOUSTICAL CEILING ANGLE MOULDING
5/8" GYP BOARD, PTD.

WALL BEYOND 5/8" GYP BOARD
STEEL FRAMING
RE: RCP
SCHEDULED FINISH
BEYOND,
RE: INT ELEVATIONS
SCHLUTER - JOLLY FINISHING PROFILE, AS REQ'D

DETAIL - GYP FURR DOWN

FILE NAME:
PROJECT  LOCATION
PROJECT  NAME
SHEET  NUMBER
SHEET  TITLE
REGISTRATION
DRAWING HISTORY
CONSULTANT
ARCHITECT
CLIENT
DATE STAMP:

C:\@RevitLocals\A-NBPD-1004389_R20_Central Model_AWilliams.rvt
8/21/2020 3:28:27 PM

New Braunfels Police
Department

© 2020

3" = 1'-0"
1 DETAIL - FLUSH GYP BREAK
2 DETAIL - COVE LIGHT
3 DETAIL - INSET CEILING TILE/GRID
4 Section 16
5 DETAIL - FLUSH CEILING CHANGE
6 DETAIL - GYP FURR DOWN

№. DATE DESCRIPTION
2020/08/21 ISSUE FOR PERMIT AND CONSTRUCTION

www.pgal.com
TBPE REG. No. F-2742
PGAL
ANNEX BUILDING SECTION

ANNEX EXTERIOR ELEVATION - EAST

ANNEX EXTERIOR ELEVATION - WEST

ANNEX EXTERIOR ELEVATION - SOUTH

ANNEX EXTERIOR ELEVATION - NORTH
LEVEL 1 SOUTH
1/2" = 1'-0"

ASSEMBLY TRAINING LARGE

CS01 CAST STONE PROFILE "A"
RE: STRUCTURAL, FINISH PLAN
SCHEDULED FLOOR, RE:
STRUCTURAL STEEL BEAM
RATED ASSEMBLY PER UL

CS02 CAST STONE PROFILE "A"
SCHEDULED CEILING
W/ 1
RE: STRUCTURAL

CS01 CAST STONE PROFILE "D"
RE: STRUCTURAL, FINISH BEAM
SCHEDULED FLOOR

CS01 CAST STONE PROFILE "E1"
SCHEDULED FLOOR

CS02 CAST STONE PROFILE "A"
SCHEDULED FLOOR, RE:

CS01 CAST STONE PROFILE "B"
W/ 1 HR RATED ASSEMBLY
RE: STRUCTURAL, FINISH PLAN

CC01 COMPOSITE CLADDING
RIGID INSULATION ON AIR &
TPO ROOF CAP, INTEGRATED DRIP EDGE TO

MR01 PRE-FINISHED STANDING
BOARD, RE: CIVIL
PAVERS ON SLOPED
@ 2'
SET IN MASTIC W/ WEEP HOLES
STAINLESS STEEL FLASHING
BASE, RE: STRUCTURAL
THICKENED SLAB @ COLUMN

BR03 STONE PANEL
CORNICE SYSTEM
PARAPET CAP, DRIP EDGE TO
PREFINISHED METAL

BR02 MASONRY VENEER OVER
STUDS WITH R-19 INSULATION
CONT. 6" TALL MORTAR NET
STUCCO VENEER ON AIR
METAL SOFFIT PANEL
COLD-FORMED STEEL
RIGID INSULATION ON AIR &
SEAM METAL ROOF ON R-25
BR01 PRE-FINISHED STANDING
BOARD, RE: CIVIL
PAVERS ON SLOPED
@ 2'
SET IN MASTIC W/ WEEP HOLES
STAINLESS STEEL FLASHING
BASE, RE: STRUCTURAL
THICKENED SLAB @ COLUMN

O.C. TYP.
STAINLESS STEEL FLASHING SET IN
SCHEDULED FLOOR
O.C. TYP.
STAINLESS STEEL FLASHING SET IN
SCHEDULED FLOOR
O.C. TYP.
STAINLESS STEEL FLASHING SET IN
SCHEDULED FLOOR
3 WALL SECTION - ONE STORY TYP. WALL

1/2" = 1'-0"

LEVEL 2
T ROOF
659'
660'
682'

STORAGE
DRUG
A7.70

CC

O.C. TYP.
MASTIC W/ WEEP HOLES @ 2'
STAINLESS STEEL FLASHING SET IN
AIR SPACE OVER 2" RIGID
STUDS
EXTERIOR SHEATHING WITH
CONT. 6" TALL MORTAR NET
VAPOR BARRIER OVER 6" METAL
EXTERIOR SHEATHING WITH
DECK SLOPED TO ROOF DRAIN,
INSULATION OVER 1/2"
BR02 MASONRY VENEER OVER
RIGID INSULATION ON AIR &
TPO ROOF MEMBRANE ON R-25
ATTACHED TO BRICK, SLIP
CS01 CAST STONE PROFILE "A"

RE: STRUCTURAL, FINISH PLAN
SCHEDULED FLOOR
CANOPY MANUF., CONTINUOUS
CONNECTED AT CANOPY PER
MILL FINISH ALUM. FLASHING
STUDS

STRUCTURAL STEEL BEAM
CORNICE SYSTEM
BR03 STONE PANEL
TO TPO ROOF
CAP, INTEGRATED DRIP EDGE
PREFINISHED METAL PARAPET
CAP,

LEVEL 1 SOUTH
LEVEL 2

1 WALL SECTION - ROOF RECESS

1/2" = 1'-0"

RE: STRUCTURAL
DECK SLOPED TO ROOF DRAIN,
RIGID INSULATION ON AIR &
STUDS WITH R-19 INSULATION
VAPOR BARRIER OVER 6" METAL
INSULATION OVER 1/2"
BR01 MASONRY VENEER OVER
SCHEDULED FLOOR, RE: RCP
LVL 2
STRUCTURAL STEEL BEAM

CS02 CAST STONE PROFILE "A"
INTEGRATED DRIP EDGE TO TPO ROOF
PREFINISHED METAL PARAPET
CAP,

LEVEL 1 NORTH
LEVEL 2

2 WALL SECTION - WALL @ LOW ROOF RECESS

1/2" = 1'-0"

4 WALL SECTION - OPERABLE PARTITION

+670'-0"
1/2" = 1'-0"

4

1600 1600

B

A7.71

BRIEFING
ROOM
2308 2308

1602 1602

5.5

A0.45

11

7

10

IT SERVER RM
LIEUTENANT
GENERAL NOTES - STAIRS

1. Dimensional tolerances of all elements except handrails, guardrails, and landings shall be in accordance with IBC 1009.3.2. Within the 1/8" (3.5 mm) tolerance of the largest size element or 3/16" (4.8 mm) for a string, which ever is greater shall be permitted for any element of a stair. Handrails, guardrails, and landings shall be dimensioned to conform with 1009.3.2.

2. The rise of stairs shall be limited to 7 1/2" (191 mm) and the run limited to 11" (279 mm). The rise may not be less than 7 1/2" (191 mm) and the run may not be less than 11" (279 mm). The maximum and minimum values for both the rise and run shall be maintained between the largest and smallest risers of each stair stairway. The rise-run ratio of a stair shall be uniform for both sides of the stair in any flight of stairs. Any tread or riser in excess of the building code shall not exceed 3/8" (9.5 mm) in any direction.

3. The flight of stairs shall be required to be removed and replaced if the tolerance between dimensional uniformity of treads and risers exceeds 3/16" (4.8 mm). The stair shall be designed so that water will not accumulate on walking surfaces. Outdoors stairs and outdoor approaches to stairs shall not be sloped steeper than 1:48 (2% slope) in any direction. The walking surface of treads and landings of a stairway shall be maintained continuously free of ice, snow, and other obstructions.

4. All exposed structural portions of the stair shoe, such as the tread, riser, and so forth, shall be painted, with the exception of the trim which may be left unpainted.

5. All exposed structural portions of the stairway shall be painted, with the exception of the trim which may be left unpainted.

6. The stair shall be designed so that water will not accumulate on walking surfaces. Outdoors stairs and outdoor approaches to stairs shall not be sloped steeper than 1:48 (2% slope) in any direction. The walking surface of treads and landings of a stairway shall be maintained continuously free of ice, snow, and other obstructions.

7. The stair shall be designed so that water will not accumulate on walking surfaces. Outdoors stairs and outdoor approaches to stairs shall not be sloped steeper than 1:48 (2% slope) in any direction. The walking surface of treads and landings of a stairway shall be maintained continuously free of ice, snow, and other obstructions.
5 WALL MOUNTED HANDRAIL
9 RAIL AXON
NTS
1" = 1'-0"
AND WELD SMOOTH.
END CAPS. GRIND OPEN ENDS WITH NOTE: CLOSE ALL 1/4"
2'-10" T.O. NOSING END RETURN
ELEVATION A7.95
6 PLAN
SCHEDULED PARTITION PIPE HANDRAIL
1 1/2" O.D. STEEL
STAINLESS STEEL
4' BRACKET @-4 RAILS AND STRINGERS
1" = 1'-0"
STRINGER
STEEL TUBE
PAINTED 2" x 12"
GA. TREAT PAN
FILLED STEEL 10 CONCRETE
PLACE MAX O.C. POSTS @ 6’
PAINTED 1 1/2" STEEL PIPE
STEEL 1 1/2" O.D.
STAINLESS 1 1/2" CLEAR SMOOTH
AND WELDS RAILING. ALL PAINTED 1 1/2"
3 7/8" MAX
8 RAIL ELEVATION
3" = 1'-0" NTS
1" = 1'-0"
2 1/2"  CLEAR VARIES, RE: PLANS
STAINLESS
3'-6"  CLEAR
SLIP RESISTANT NOSING, TYP.
USED IN ASSEMBLY AREAS 1004, 1004A, 1203, 1508, & 1510
1 1/2" CLEAR
1 1/2" = 1'-0"
LANDING PAN
CONCRETE FILLED STEEL
1 1/2" CAST IN PLACE
PAINTED STEEL
RE: 10/A0.850 HANDRAIL
STEEL PIPE
STEEL 1 1/2" O.D.
STAINLESS PIPE GUARDRAIL, TYP.
PAINTED 1 1/2" O.D. STEEL
1 1/2" CAST IN PLACE CONCRETE
SLIP RESISTANT NOSING, TYP.
METAL DECK, RE: STRUCT
CONCRETE SLAB ON STRUCTURAL STEEL
METAL DECK, RE: STRUCT
4 1/2" LIGHTWEIGHT STRUCTURAL CONCRETE SLAB,
2" METAL DECKING WITH 4 1/2" LIGHTWEIGHT CONCRETE.
NOTE: - HR SPRAY RE: STRUCT
2 1/2" METAL DECKING, RE: STRUCT
4 1/2" LIGHTWEIGHT STRUCTURAL CONCRETE SLAB,
2" METAL DECKING WITH 4 1/2" LIGHTWEIGHT CONCRETE.
NOTE:
1 5/8"
5/8"
4" 2 1/2" 2" 3" 3'-6" 2'-10" 8" 4" 3 7/8" MAX.
7" MAX
2 1/2" 2" 3" 3'-6" 2'-10" 8" 4" 3 7/8" MAX.
7" MAX
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7" MAX
2 1/2" 2" 3" 3'-6" 2'-10" 8" 4" 3 7/8" MAX.
5 DETAIL - TILE EDGE FINISHING

8 DETAIL - CORNER GUARD

9 DETAIL - SHOWER SLAB DEPRESSION

11 CONCRETE DEPRESSION TRANSITION

12 SHOWER CURB DETAIL

13 DETAIL - SEMI-RECESSED FEC

14 DETAIL - ELEVATOR LOBBY

15 DETAIL - LOBBY DOOR FRAME CORNERS

16 DETAIL - LOBBY WALL SECTION - GLASS PANEL - SILL

17 DETAIL - LOBBY WALL SECTION - GLASS PANEL - HEAD

1 DETAIL - TROUGH SINK LEDGE

2 DETAIL - SHOWER NICHE

3 SECTION DETAIL - WOOD PANEL SILL

4 SECTION DETAIL - WOOD PANEL BASE

6 SECTION DETAIL - WOOD PANEL HEAD

7 PLAN DETAIL - ELEVATOR

10 DETAIL - SEMI-RECESSED FEC

2 SECTION DETAIL - ELEVATOR HEADER

3 SECTION DETAIL - ELEVATOR

4 DETAIL - ELEVATOR LOBBY

5 DETAIL - CORNER GUARD

6 DETAIL - LOBBY WALL SECTION - GLASS PANEL - SILL
MECHANICAL GENERAL NOTES:
REFER TO DETAIL FOR GENERAL NOTES

MECHANICAL KEYED NOTES:

- PROVIDE MONUMENT MOUNTED AIR HANDLER AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING LOCATION WITH STRUCTURE. PROVIDE ALL REQUIRED CLEARANCES PER MANUFACTURER.

- PROVIDE PACKAGE ROOF TOP UNIT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING LOCATION WITH STRUCTURE. PROVIDE ALL REQUIRED CLEARANCES PER MANUFACTURER.

- PROVIDE FULL SIZE CONDENSATE LINE TO THE ROOF DRAIN INDICATED. SIZE AS SHOWN. FIELD COORDINATE EXACT ROUTING.

- PROVIDE ROOF MOUNTED AIR COOLED CONDENSING UNIT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT REFRIGERANT PIPE ROUTING TO ASSOCIATED EQUIPMENT.

- PROVIDE ROOF MOUNTED FAN AT THE APPROXIMATE LOCATION INDICATED.

- KITCHEN HOOD EXHAUST LOCATION AT THE ROOF. PROVIDE MANUFACTURER SUPPLIED VENT LOCATION. BACKDRAFT DAMPER PRIOR TO THE OUTLET. FIELD COORDINATE EXACT ROUTING.

MECHANICAL GENERAL NOTES:

MECHANICAL KEYED NOTES:

1. PROVIDE MONUMENT MOUNTED AIR HANDLER AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING LOCATION WITH STRUCTURE. PROVIDE ALL REQUIRED CLEARANCES PER MANUFACTURER.

2. PROVIDE PACKAGE ROOF TOP UNIT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING LOCATION WITH STRUCTURE. PROVIDE ALL REQUIRED CLEARANCES PER MANUFACTURER.

3. PROVIDE FULL SIZE CONDENSATE LINE TO THE ROOF DRAIN INDICATED. SIZE AS SHOWN. FIELD COORDINATE EXACT ROUTING.

4. PROVIDE ROOF MOUNTED AIR COOLED CONDENSING UNIT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT REFRIGERANT PIPE ROUTING TO ASSOCIATED EQUIPMENT.

5. PROVIDE ROOF MOUNTED FAN AT THE APPROXIMATE LOCATION INDICATED.

6. KITCHEN HOOD EXHAUST LOCATION AT THE ROOF. PROVIDE MANUFACTURER SUPPLIED VENT LOCATION. BACKDRAFT DAMPER PRIOR TO THE OUTLET. FIELD COORDINATE EXACT ROUTING.
### SINGLE ZONE VW AHU SCHEDULE

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### VW AIR HANDLING UNIT SCHEDULE

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### ELECTRIC UNIT HEATER SCHEDULE

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### DUCTLESS SPLIT SYSTEM SCHEDULE

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### AIR DEVICE SCHEDULE

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**Notes:**
- All units must be installed in accordance with local codes and best practices.
- Pressure losses through accessories such as baffles, roop down, valves, and screens etc. are to be calculated to determine total system pressure drop.
- All supply and return terminals shall be insulated to prevent condensation and electrical connection to terminals.
- All equipment is to be provided with electrical connection to terminals according to the manufacturer's instructions.

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**Diagram:**

- Diagram showing the layout of the HVAC system, including units and connections.

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GENERAL LIGHTING NOTES

A. REFER TO SCHEDULE FOR LIGHT FIXTURE SCHEDULE.
B. ALL LIGHT FIXTURES SHALL BE TYPE ‘A’ UNLESS NOTED OTHERWISE.
C. REFER TO DRAWING E0.01 FOR ALL CEILING AND WALL MOUNTED FIXTURES. CONNECTOR TYPE AND LOCATION SHOWN ON DRAWING AS REQUIRED FOR CONTROL, INDICATION.
D. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO EMERGENCY BUSINESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WARNER DEVICES SHALL BE PLACED IN A SEPARATE CONDUIT. REFER TO DRAWING E0.01 FOR DRAWING INFORMATION.
E. ALL CIRCUIT REQUIRED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTRIC TO THE CEILING TILES.
F. WALL MOUNTED DEVICES SHOWN TOGETHER SHALL BE SHIELDED TOGETHER UNDER A COMMON COVER PLATE.
G. PROVIDE UNSWITCHED CIRCUIT TO ALL LUST SIGNS ORIGINATING FROM CIRCUIT ORIGINATING TO EMERGENCY CIRCUIT.
H. LIGHTING DEVICES SHALL BE CONNECTED TO EMERGENCY LIGHTING CIRCUIT CONTROLLED BY EACH SCHEDULED PROVIDING THEottage TYPE MARKED LABEL LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.
I. LIGHTING DEVICES SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED LIGHTING FIXTURES.
J. FIXED SERVICES DESIGNATE THE SHALL BE UNSWITCHED HOT LEG. FIXTURES SHALL BE CONNECTED TO EMERGENCY CIRCUIT INDICATED.
K. EMERGENCY CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUIT FOR EMERGENCY LIGHTING.
L. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12

LIGHTING PLAN - ANNEX
ADDITIONAL WORKROOM.

- POWER PLAN - PD LEVEL 2

- PROVIDE GFCI RECEPTACLE MOUNTED UNDER COUNTER FOR DISHWASHER, VERIFY EXACT LOCATION.

- PROVIDE GFCI RECEPTACLE MOUNTED UNDER SINK FOR CONNECTION TO AUTO WATER VALVE. COORDINATE WITH PLUMBING CONTRACTOR.

- 30 AMP, 2 POLE, NON-FUSED DISCONNECT SWITCH MOUNTED HIGH ADJACENT TO DS UNIT FROM STRUCTURE, NOT CEILING TILE. FIELD VERIFY EXACT LOCATION.

- PROVIDE JUNCTION BOX RECESSED IN WALL FOR CONNECTION TO PLUMBING AUTOMATIC FLUSH VALVE. JUNCTION BOX TO BE LOCATED 12" UP FROM GROUND, UNLESS PLUMBING AUTOMATIC FLUSH VALVE INSTALLATION LOCATION REQUIRES A LOWER MOUNTING HEIGHT. FIELD VERIFY EXACT LOCATION.

- PROVIDE 1" CONDUIT WITH PULL STRING FROM I.T. FLOOR BOX TO ABOVE ACCESSIBLE CEILING JUNCTION BOX RECESSED IN WALL FOR CONNECTION TO PLUMBING AUTOMATIC FLUSH VALVE. JUNCTION BOX TO BE LOCATED 12" UP FROM GROUND, UNLESS PLUMBING AUTOMATIC FLUSH VALVE INSTALLATION LOCATION REQUIRES A LOWER MOUNTING HEIGHT. FIELD VERIFY EXACT LOCATION.

- ROUTE 3/4" CONDUIT WITH PULL STRING UP TO ROOF MOUNTED SPLIT SYSTEM UNIT. INDOOR PROVIDE REMOTE GFCI RESET BUTTON ADJACENT TO REFRIGERATOR.

- THIS SPACE SHALL BE DEDICATED FOR MECHANICAL DUCT RUNNING FROM 1ST FLOOR TO 120/208 VOLT.

- ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL CONNECTIONS PRIOR TO POWER UP. ARCHITECT TO REVIEW AND VERIFY INSTALLATION.

- PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLOW VALUES AND Sentinel Equipment. Transmitter shall be located in utility closet on 1st floor, field verified as per architectural drawing location.

- ALL PERIMETER LOCATED IN REFRIGERATORS, SERVING ELECTRIC DRINKING FOUNTAINS AND REFRIGERATORS. LOCATED OUTSIDE OF A FRIDGE, LOCATED ON THE CORNER OF THE FRIDGE. FIELD VERIFY AS PER ARCHITECTUAL DRAWING.

- THIS SPACE SHALL BE DEDICATED FOR MECHANICAL DUCT RUNNING FROM 1ST FLOOR TO 120/208 VOLT.

- ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL CONNECTIONS PRIOR TO POWER UP. ARCHITECT TO REVIEW AND VERIFY INSTALLATION.

- PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLOW VALUES AND Sentinel Equipment. Transmitter shall be located in utility closet on 1st floor, field verified as per architectural drawing location.

- ALL PERIMETER LOCATED IN REFRIGERATORS, SERVING ELECTRIC DRINKING FOUNTAINS AND REFRIGERATORS. LOCATED OUTSIDE OF A FRIDGE, LOCATED ON THE CORNER OF THE FRIDGE. FIELD VERIFY AS PER ARCHITECTUAL DRAWING.
30 AMP, 2 POLE, NON-FUSED, NEMA 3R DISCONNECT SWITCH. FIELD VERIFY EXACT LOCATION. PROVIDE 3/4" CONDUIT WITH PULL STRING ROUTED DOWN TO INDOOR UNIT. INDOOR UNIT RECEIVES POWER FROM THIS UNIT. COORDINATE CONDUIT ROUTING THRU ROOF WITH MECHANICAL PIPING.
NEW BRAUNFELS UTILITIES PAD MOUNTED TRANSFORMER (96"X108""). COORDINATE EXACT LOCATION WITH NBU. THERE SHALL BE (36") CLEARENCE AROUND TRANSFORMER.

DEDICATED SPACE FOR FUTURE NBU PAD MOUNTED TRANSFORMER.

3-3" CONDUITS STUBBED OUT FOR FUTURE USE.

DEDICATE SPACE FOR FUTURE TEMPORARY GENERATOR TO BE BROUGHT IN ON TRAILER FOR EMERGENCY USE.

NEW EMERGENCY GENERATOR MOUNTED ON CONCRETE PAD (222"X86") WITH WEATHERPROOF HOUSING. MINIMUM 5'-0" FROM BUILDING.

NEW LOAD BANK FOR GENERATOR TESTING MOUNTED ON CONCRETE PAD.

NEW WALL MOUNTED QUICK CONNECT FOR FUTURE GENERATOR. FIELD VERIFY EXACT LOCATION.

NEW AIR COOLED CHILLERS ARE PROVIDED WITH DISCONNECTING MEANS FROM THE FACTORY.

1-1" CONDUIT FOR REMOTE ANNUNCIATOR
1-1" CONDUIT FOR ATS CONTROL WIRING
1-1" CONDUIT WITH CIRCUITS FOR WATER JACKER HEATER, BATTERY CHARGER AND LUBE OIL HEATER/CONTROLS.

2-3" CONDUITS FOR POWER TO ATS FROM GENERATOR, REFER TO E4.01 ONE LINE DIAGRAM.
### DRY TYPE 3-PHASE TRANSFORMER FEEDER SCHEDULE

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Total Connected Load: 117024 VA = 141 A

Location of Panel: ELECTRICAL 1604

Total Load (Diversified): 117024 VA = 141 A

Note:

- Existing
- New

4830 VA H FPT-6-1 10 30 A 19 20
3330 VA H FPT-5-11 12 20 A 35 36 20 A 12
FPT-5-9 H 3830 VA
220.60 (C) Cooling 0 VA
620.14 (E) Elevators
220.60 (H) Heating 91130 VA 100.00% 91130 VA
(WH) Water Heater
220.60 (H) Heating 92830 VA 100.00% 92830 VA
(WH) Water Heater
220.60 (K) Kitchen EL Ext. Lighting
220.60 (F) Fans 220.5 (MT) Large Motor
220.44 (R) Receptacle 806 20 VA 56.20% 45310 VA
220.20 (L) Lighting
220.60 (H) Heating 0 VA
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### Existing... Load... Type Description... Wire CB CKT CB Wire Description Type Load... N...

- 180 VA R RECEPT (ON ROOF) 12 20 A 1 2 20 A 12 R TRAINING ROOM 2101 R 1080 VA
- 200 VA M EF-6 (1/100HP ON ROOF) 12 15 A 7 8 20 A 12 R Room 2327, 2332 R 1080 VA
- 540 VA R R CID DIGITAL TECH DET.-1... 12 20 A 11 12 20 A 12 R Room 2329, 2330 R 1080 VA
- 540 VA R R IT OFFICE 2003 12 20 A 23 24 20 A 12 R CID CAPTAIN (FUTURE) 2310 R 720 VA
- 720 VA Power FURNITURE SYSTEM 10 20 A 41 42 20 A Spare -- --
- 1590 VA M EF-2 (3/4HP ON ROOF) 12 30 A 3 4 20 A 12 R Room 2102, 2100, 2101 R 900 VA
- 1080 VA R R Room 2300-1, 2315 12 20 A 21 22 20 A 12 R Room 2309, 2308 R 1440 VA
- 1260 VA R R Room 2107, 2108 12 20 A 29 30 20 A 12 R Room 2314, 2312 R 1080 VA
- 1080 VA R R VOLUNTEER OFFICE 2103 12 20 A 35 36 20 A 12 REFRIGERATOR R 850 VA

### Existing... Load... Type Description... Wire CB CKT CB Wire Description Type Load... N...

- 220.60 (F) Fans 220.5 (MT) Lrg. Motor
- 220.44 (R) Receptacle 32350 VA 65.46% 21175 VA 210.20 (a) (L) Lighting
- 220.56 (K) Kitchen (EL) Ext. Ltg.
- 220.60 (H) Heating 0 VA (WH) Wat. Htr.

### Electrical Load... Type Description... Wire CB CKT CB Wire Description Type Load... N...

- 3330 VA H FPT-4-6 12 20 A 1 2
- 3830 VA H FPT-4-8 12 20 A 5 6
- 5830 VA H FPT-3-3 10 30 A 9 10
- 2830 VA H FPT-3-4 12 20 A 11 12
- 4330 VA H FPT-3-5 12 20 A 13 14
- 2830 VA H FPT-3-7 12 20 A 17 18
- 3330 VA H FPT-3-8 12 20 A 19 20
- 220 A 12 FPT-4-2 H 4830 VA
- 5330 VA H FPT-3-10 10 30 A 21 22 20 A 12 FPT-4-4 H 2830 VA


- BIM 360://190324.000-City of New Braunfels-New Police Headquarters/190324_NBPD_E20.rvt

### Note

- 220.60 (F) Fans 220.5 (MT) Lrg. Motor
- 220.44 (R) Receptacle 31590 VA 65.83% 20795 VA 210.20 (a) (L) Lighting
- 220.60 (H) Heating 0 VA (WH) Wat. Htr.

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## PLUMBING SYMBOLS AND ABBREVIATIONS

**ABBREVIATIONS**

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**GENERAL PLUMBING NOTES**

1. The City of New Braunfels shall adopt the ARI, ARI, and FORWake.
2. The City of New Braunfels shall adopt the ARI, ARI, and FORWake.
3. The City of New Braunfels shall adopt the ARI, ARI, and FORWake.
4. The City of New Braunfels shall adopt the ARI, ARI, and FORWake.
PLUMBING GENERAL NOTES:

1. All plumbing to be in accordance with local, state, and federal codes.
2. All plumbing fixtures and equipment to be installed in accordance with the manufacturer’s instructions.
3. All plumbing materials to be approved by the local building department.
4. All plumbing to be properly vented and drained.
5. All plumbing to be tested for leaks and pressure.
6. All plumbing to be properly labeled and identified.

PLUMBING KEYNOTES:

- **1.** Cold water line up to roof hydrant with shut-off valve, size as noted.
- **2.** Dishwasher from adjacent sink.
- **3.** Storm overflow (OD) up to OD-1, size as noted.
- **4.** Vent line up from level below, size as noted.
- **5.** Wall/Chase from above ceiling to plumbing fixture/fixture, size as noted.
- **6.** Sanitary down, size as noted.
- **7.** Hot water loop up from level below at 12" AFF and across as shown.
- **8.** Cold water up from level below, size as noted.

**FILE NAME:** BIM 360://190324.000-City of New Braunfels-New Police Headquarters/190324_NBPD_P20.rvt

**DRAWING HISTORY**

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**PGAL - ARCHITECTS AND CONSTRUCTION**

2111 N Main Street, Suite #300
Houston, Texas 77002
T 713.523.0500
F 713.523.0501

**New Braunfels Police Department**

2302 W San Antonio St
New Braunfels, TX 78130

**PROJECT NAME**

New Braunfels Police Department

**PROJECT NUMBER**

DBR2019-0002

**Gould Evans**

2200 Westheimer Rd Suite 4100
Houston, Texas 77019
T 713.522.3900
F 713.522.3901

**DESIGN:**

Gould Evans

**CONSTRUCTION:**

DBR

**DRAWING SCALE:**

1" = 1'-0"

**DRAWING SHEET:**

P2.02

**NOTE:**

Refer to roof plan sheet P2.04.
NOTE: SOUTH SIDE HIGH ROOF WILL BE COLLECTED WITH GUTTERS AND STORM LEADERS, REFER TO ARCHITECT’S PLANS FOR GUTTER DETAILS AND SHEET P2.02 FOR STORM LEADERS.

NOTE: NORTH SIDE AND LEFT AND RIGHT SIDES HIGH ROOF WILL BE COLLECTED WITH GUTTERS AND DOWNSPOUTS AND SPILL ONTO LOWER ROOF, REFER TO ARCHITECT’S PLANS FOR DETAILS.
NOTE: REFER TO THE ARCHITECT'S DRAWINGS FOR ROOF STORM DRAINAGE DONE WITH GUTTERS AND DOWNSOUTS.
PLUMBING KEYNOTES:

- HOT WATER LOOP UP TO ABOVE CEILING, SIZE AS NOTED.
- BOTTOM OF CHASE AT APPROXIMATELY 12" AFF, SIZE AS NOTED.
- HOT WATER LOOP DOWN IN WALL/CHASE (FROM ABOVE CEILING) ROUTE ACROSS VALVE AS SHOWN ON PLAN AND/OR RISER, SIZE AS NOTED.
- COLD WATER DOWN IN CHASE/WALL TO PLUMBING FIXTURE/S, PROVIDE SHUT-OFF FIXED TO WALL (SHUT-OFF VALVE) AS SHOWN ON PLAN AND/OR RISER, FULL SIZE MANIFOLD AND TAP TO FIXTURES, PROVIDE SHUT-OFF
- PLUMBING KEYNOTES:
  - DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT COLLINEARITY WITH OTHER DISCIPLINES.
  - CONTRACTOR SHALL COORDINATE WITH ALL TRADES/DISCIPLINES TO ENSURE COLLINEARITY WITH OTHER DISCIPLINES.
SECURITY SITE PLAN KEYED NOTES:

- Proposed routing of 3" schedule 40 PVC conduits routed 24" below grade from access control pedestal to nearest IDF room Gestalt to be used with access control cables. Coordinate the exact location of access control pedestal. Some conduits are proposed not shown.

- Proposed routing of 2" schedule 40 PVC conduits routed 24" below grade from access control pedestal to nearest IDF room Gestalt to be used with access control cables. Coordinate the exact location of access control pedestal. Some conduits are proposed not shown.

- Indicates the location of (2) high and low pedestal mounted card readers.

- Indicates the location of pedestal secured card readers.
### TECHNOLOGY LEGEND

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### GENERAL NOTES

1. These notes only apply to the areas shaded in red. These areas are not to be blocked or obstructed by the contractor's equipment or personnel.
2. The contractor is responsible for ensuring that all work is completed in accordance with the plans and specifications.
3. Any adjustments to the plans or specifications must be approved by the owner's representative before any work is performed.
4. The contractor must maintain clear and safe access to all areas throughout the project.

### NOTES TO CONTRACTOR

1. The contractor shall ensure that all work is completed in accordance with the plans and specifications.
2. The contractor shall provide all necessary equipment and personnel to complete the work in a timely manner.
3. The contractor is responsible for ensuring that all work is completed in accordance with the owner's requirements.
4. The contractor must maintain clear and safe access to all areas throughout the project.
IT SITE PLAN KEYED NOTES:

- Proposed routing of 2" schedule 40 PVC conduits with (4) 1" corrugated innerduct with pull string from Demarc Room 1603A to main road. Routed 24" below grade for technology services.
- Proposed routing of 3" schedule 40 PVC conduits with 25 pair OSP copper cable, 24 strand OSP single mode fiber from Annex building IDF room to Demarc Room 1603A. Routed 24" below grade for technology services.
- Proposed routing of 2" schedule 40 PVC conduits from the nearest IDF room to lightpole. Contractor is to provide and install (2) OSP CAT6 cables and lightning protection to use with pole mounted security cameras.
- Proposed routing of 4" schedule 40 PVC conduits from the nearest IDF room to telecommunications pullbox. Contractor is to provide and install 6 strand OSP fiber telecommunications cabling for pole mounted security cameras.
- Proposed routing of 2" schedule 40 PVC conduits from telecommunications pullbox to lightpole. Conduit to be used with fiber telecommunications cabling for pole mounted security cameras.

Indicates the location of exterior wall mounted access point.
TECHNOLOGY KEYED NOTES:

1. CAT 6 CABLING AT INDICATED DATA DROP IS TO ORIGINATE FROM RADIO ROOM 1603B.
2. RG6 COAX DROP CABLING IS TO ORIGINATE FROM RADIO ROOM 1603B.
3. TELECOMMUNICATIONS CABLING INDICATES LOCATION OF "W" WASTE CABLING THAT TYPICALLY IS FOR ALL IN PROJECT.
4. PROVIDE AND INSTALL CAT 6 DATA CABLING TO CONTROL PANELS. COORDINATE WITH HAVING VENDOR FOR EXACT DISTANCES HEIGHT AND LOCATION.

WM RM GR FC
TBPE Firm Registration No. 2234
9990 Richmond Avenue

TT2.02
RACEWAY DETAIL - TYPICAL INSTRUCTORS OUTLET

A. CONTRACTOR TO PROVIDE AND INSTALL AS SHOWN PRIOR TO ROUGH-IN

B. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER, NOT TO SCALE

DUPLEX ELECTRICAL DEDICATED, 120V

PLENUM CEILING SPACE. PROVIDE PLASTIC, PROTECTIVE BUSHINGS AT CONDUITS TO STUB OUT OF WALL, INTO THE NEAREST, ACCESSIBLE, DEDICATED, 120V DUPLEX ELECTRICAL OUTLET

PLACE CONNECTOR BLOCKS W/OSNAP ON 1" CONDUIT CONNECTORS MUST BE WITHIN DASHED LINE

1. WRAP AROUND CABLE LABEL TO BE IDENTIFIER AND THE PANEL: EXAMPLE I1-i-C-01

2. CABLE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THAN 1.25" IN HEIGHT.

3. COORDINATE EXACT LABELING SCHEME IF CABLE SERVERS BUILDING INTERCOM SYSTEM PROVIDE AN "i" BETWEEN THE TR IDENTIFICATION-PORT T.R. IDENTIFICATION-PANEL CONSTRUCTION NUMBERS)

4. WRAP AROUND CABLE LABEL TO BE IDENTIFIER AND THE PANEL: EXAMPLE I1-i-C-01

5. WRAP AROUND CABLE LABEL TO BE IDENTIFIER AND THE PANEL: EXAMPLE I1-i-C-01

NOTES:

ACCESSIBLE, PLENUM CEILING SPACE.
1. INTERIOR WALL MOUNTED CAMERA VERTICAL
2. INTERIOR LAY-IN CEILING MOUNTED CAMERA
3. INTERIOR WALL MOUNTED DOME CAMERA
4. INTERIOR PENDANT MOUNTED CAMERA
5. EXTERIOR/INTERIOR SOLID CEILING MOUNTED CAMERA
6. CORNER MOUNTING DETAIL

NOTE:
- Electrical contractor shall provide 1" conduit with pull string to nearest available plenum space. Security contractors shall provide cable feed-through mount for camera. No exposed cable will be allowed. Security contractor to coordinate mounting height with electrical contractor prior to rough-in.
- No exposed cable and sealed for moisture barrier.
- Corner camera mount.
- Water tight flexible conduit used to entire conduit connection from wall to camera must be sealed water tight. Install with a downward drip loop to prevent moisture from entering the camera housing.

CORNER REDUCTION DETAIL

FINISHED FLOOR
SCHEDULED CEILING
VIDEO SURVEILLANCE CAMERA
<table>
<thead>
<tr>
<th>QTY</th>
<th>CAMERA TYPE</th>
<th>ENVIRONMENT</th>
<th>MOUNTING TYPE</th>
<th>SENSORS</th>
<th>MANUFACTURER</th>
<th>CAMERA MODEL</th>
<th>FRAMES RATE</th>
<th>CODEC</th>
<th>RESOLUTION</th>
<th>SIZE</th>
<th>MOUNTATION</th>
<th>DATE OF INSTALLATION</th>
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<tr>
<td>1</td>
<td>INTERIOR</td>
<td>EXTERIOR</td>
<td>SENSOR 2.8 on 90°</td>
<td>1080p 100/300</td>
<td>SONY</td>
<td>FDR-720</td>
<td>59.94F</td>
<td>1080i</td>
<td>2592 x 1944</td>
<td>10/28</td>
<td>2021-03-19</td>
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</tr>
</tbody>
</table>

**General Notes:**
1. All related parts, accessories, and components are to be coordinated prior to installation.
2. Reference specifications for list of pre-approved camera manufacturers. Specifications of all cameras shall meet or exceed that of the products specified within the camera schedule.
3. License, as required, shall be provided by the contractor for each camera installed.
4. Contractor is to provide all mounting accessories and hardware.