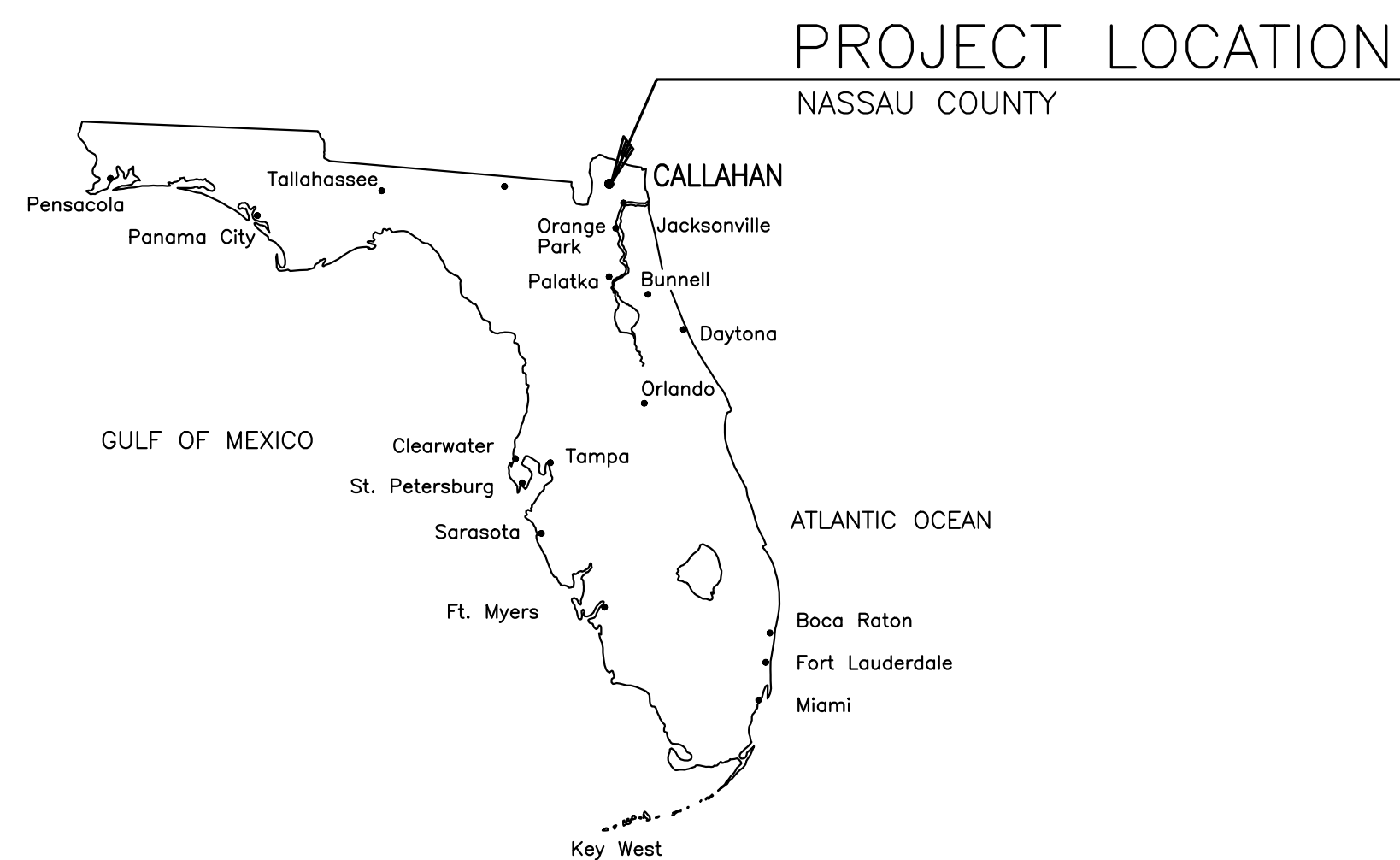


CDBG 20 NR WATER MAIN REPLACEMENT & EXTENSIONS

FOR TOWN OF CALLAHAN, FLORIDA

CDBG Contract No. 20DB-00-04-55-02-N06
M & A Project No. 0302-31-1



MATTHEW DAVIS
MAYOR

JOHN K. BASS
COUNCIL PRESIDENT

ASHTON BISHOP-VARGAS
COUNCIL MEMBER

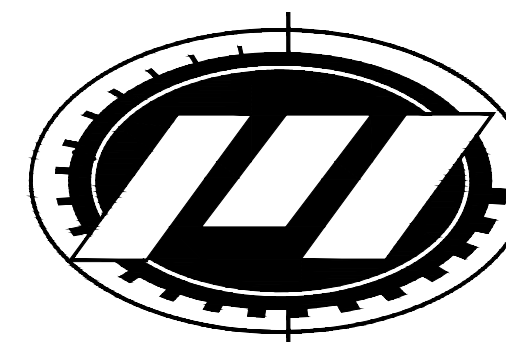
JACQUELYN FLEMING
COUNCIL MEMBER

DAVID MELLECKER
COUNCIL MEMBER

JANET SHAW
COUNCIL MEMBER

STEPHANIE KNAGGE
TOWN CLERK

MICHAEL WILLIAMS
PUBLIC WORKS DIRECTOR

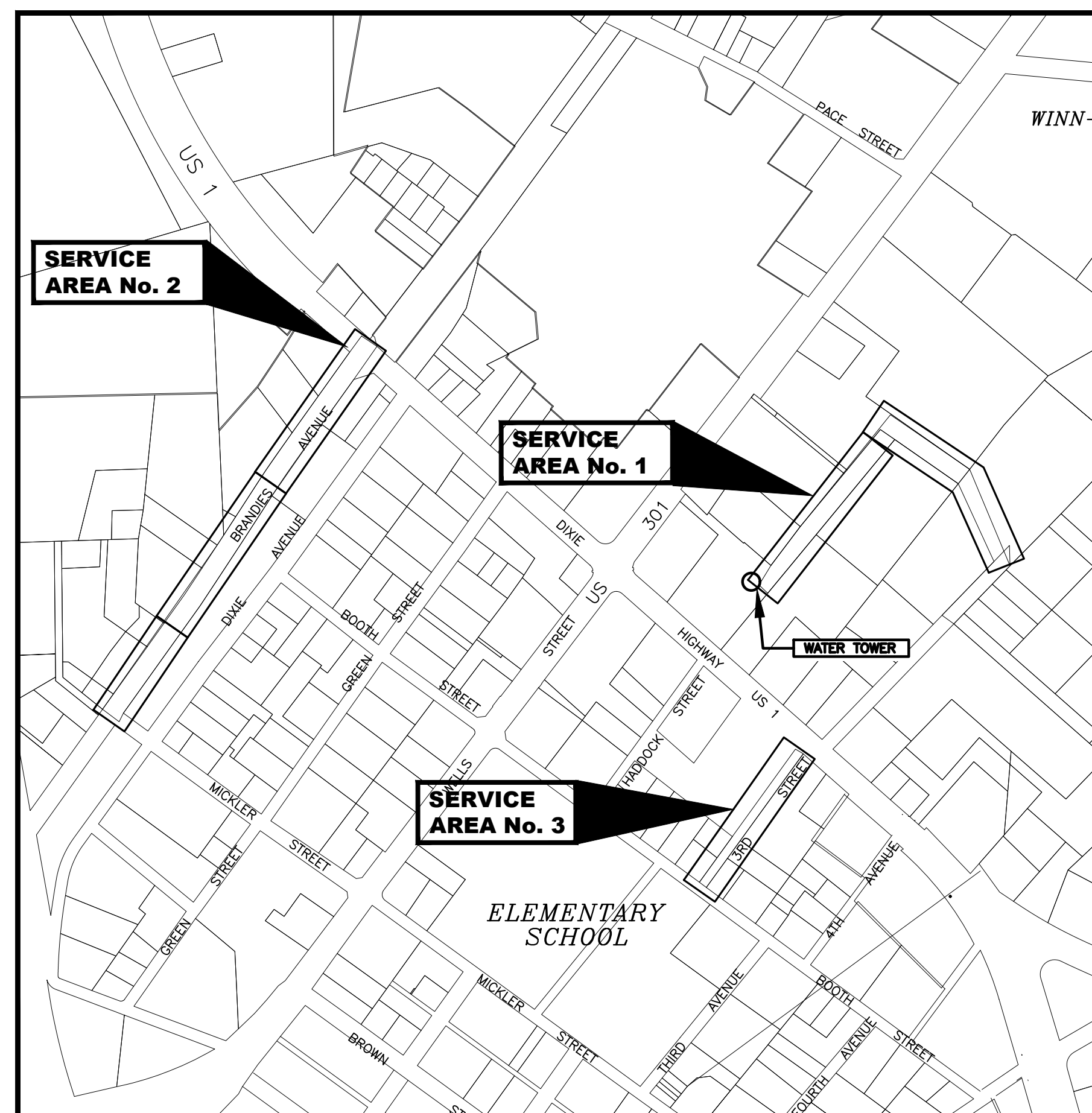


MITTAUER
& ASSOCIATES, INC.
CONSULTING ENGINEERS

580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840 FLORIDA RY NO. 6569

D R A W I N G I N D E X

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES, ABBREVIATIONS & LEGEND
3	KEY MAP
4	SERVICE AREA NO. 1 - FRANK BROOKINS DR.
5	SERVICE AREA NO. 1 - EWING PARK ROAD
6	SERVICE AREA NO. 2 - BRANDIES AVENUE
7	SERVICE AREA NO. 2 - BRANDIES AVENUE
8	SERVICE AREA NO. 3 - 3RD AVENUE SOUTH
9	TYPICAL DETAILS
10	TYPICAL DETAILS
11	TYPICAL DETAILS
12	DEPOT PARK EXISTING SITE PLAN
13	DEPOT PARK RESTROOM & PAVILION SITE PLAN
14	BUILDING - FOUNDATION & FLOOR PLANS
15	BUILDING - ROOF FRAMING PLAN & DETAILS
16	BUILDING - ELEVATIONS
17	BUILDING - WALL SECTIONS & DETAILS
18	BUILDING - WALL SECTIONS & DETAILS
19	BUILDING - PLUMBING PLAN & DETAILS
20	BUILDING - PLUMBING DETAILS & NOTES
21	BUILDING - LIFE SAFETY PLAN & DETAILS
22	DEPOT PARK RESTROOM & PAVILION ELECTRICAL SITE PLAN
23	BUILDING - ELECTRICAL FLOOR PLAN & DETAILS
24	BUILDING - ELECTRICAL SCHEDULES & DIAGRAM

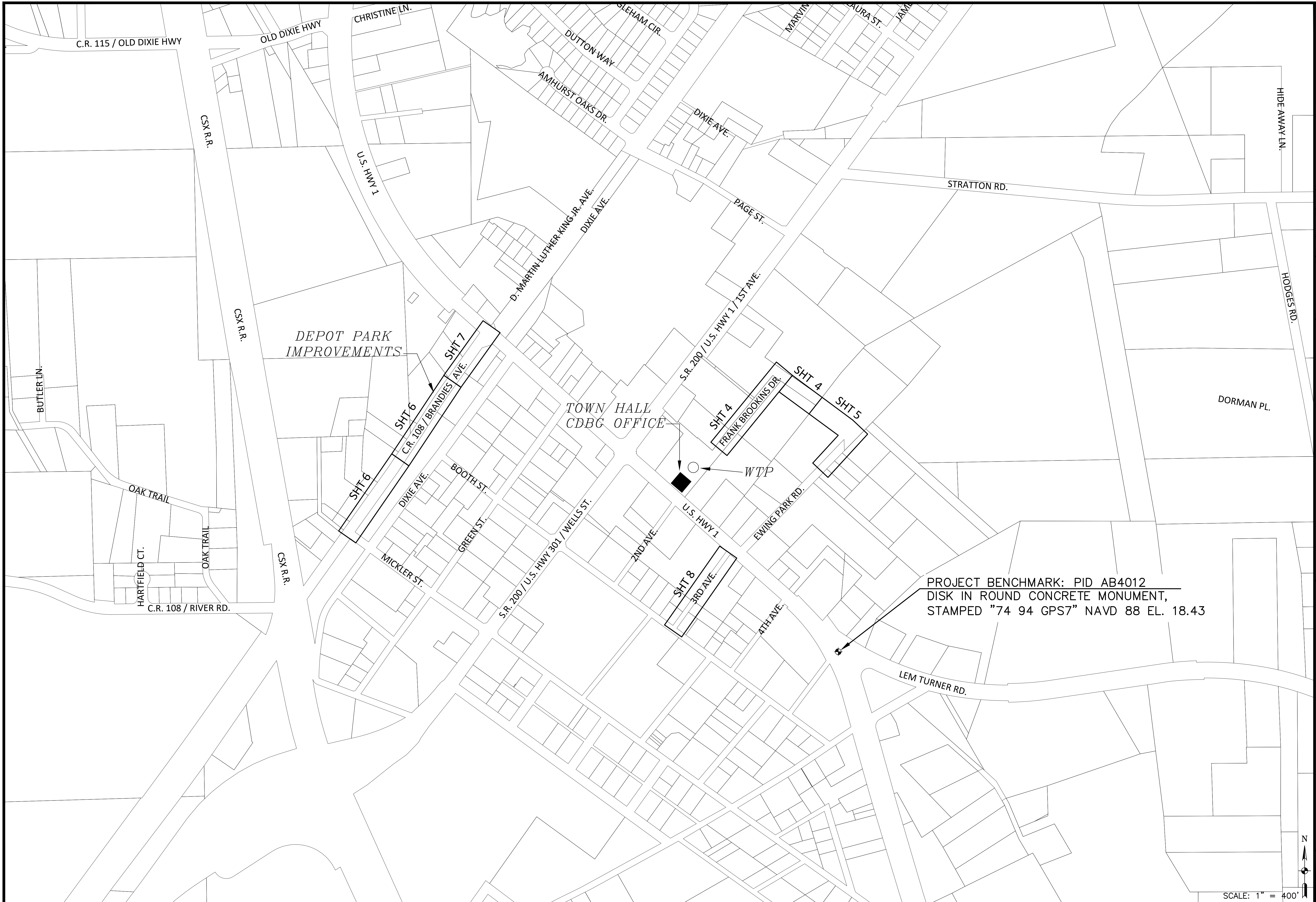


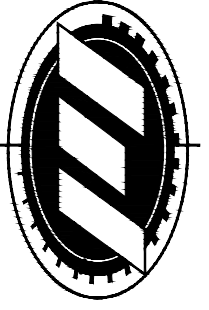
VICINITY MAP

BID SET

10/21/21

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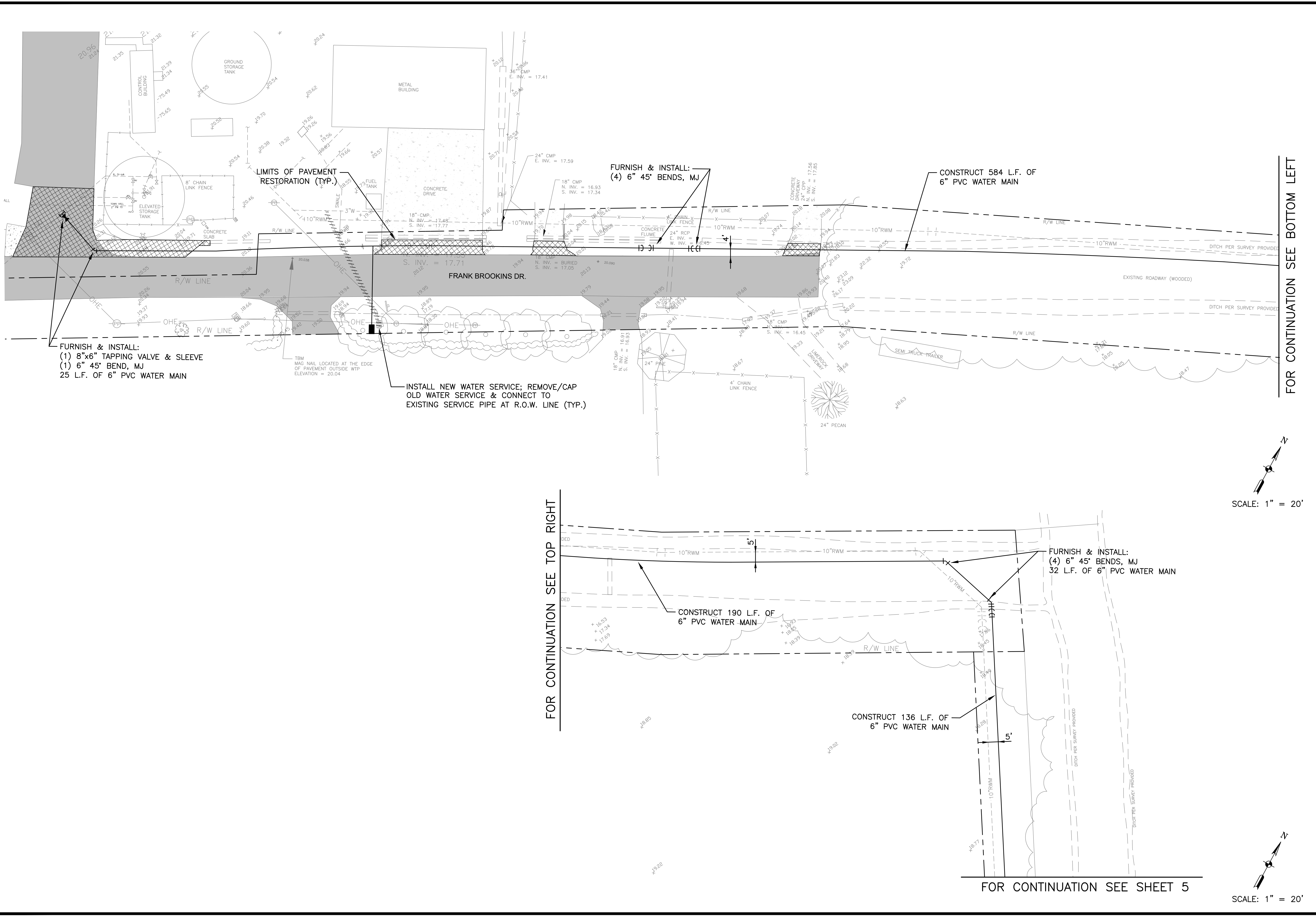


 <p>MITTAUER & ASSOCIATES, INC. CONSULTING ENGINEERS</p> <p>580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840 FLORIDA CA NO. 6569</p>	
<p>DESIGNER: JPP DRAWN: JSA PROJ. MGR.: TPN</p>	<p>DATE: 10/21/21</p>
<p>NO.</p>	<p>DATE</p>
<p>BY</p>	<p>REVISION DESCRIPTION</p>

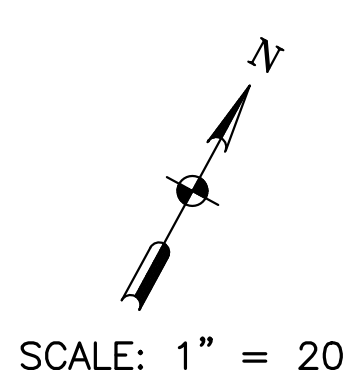
TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Key Map
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO. 3

SCALE: 1" = 400'



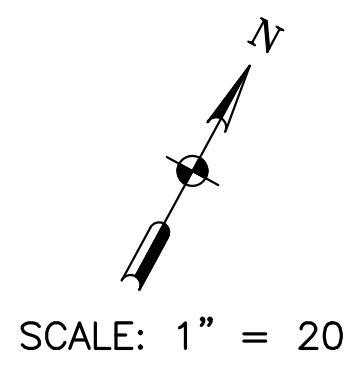
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SCALE: 1" = 20'

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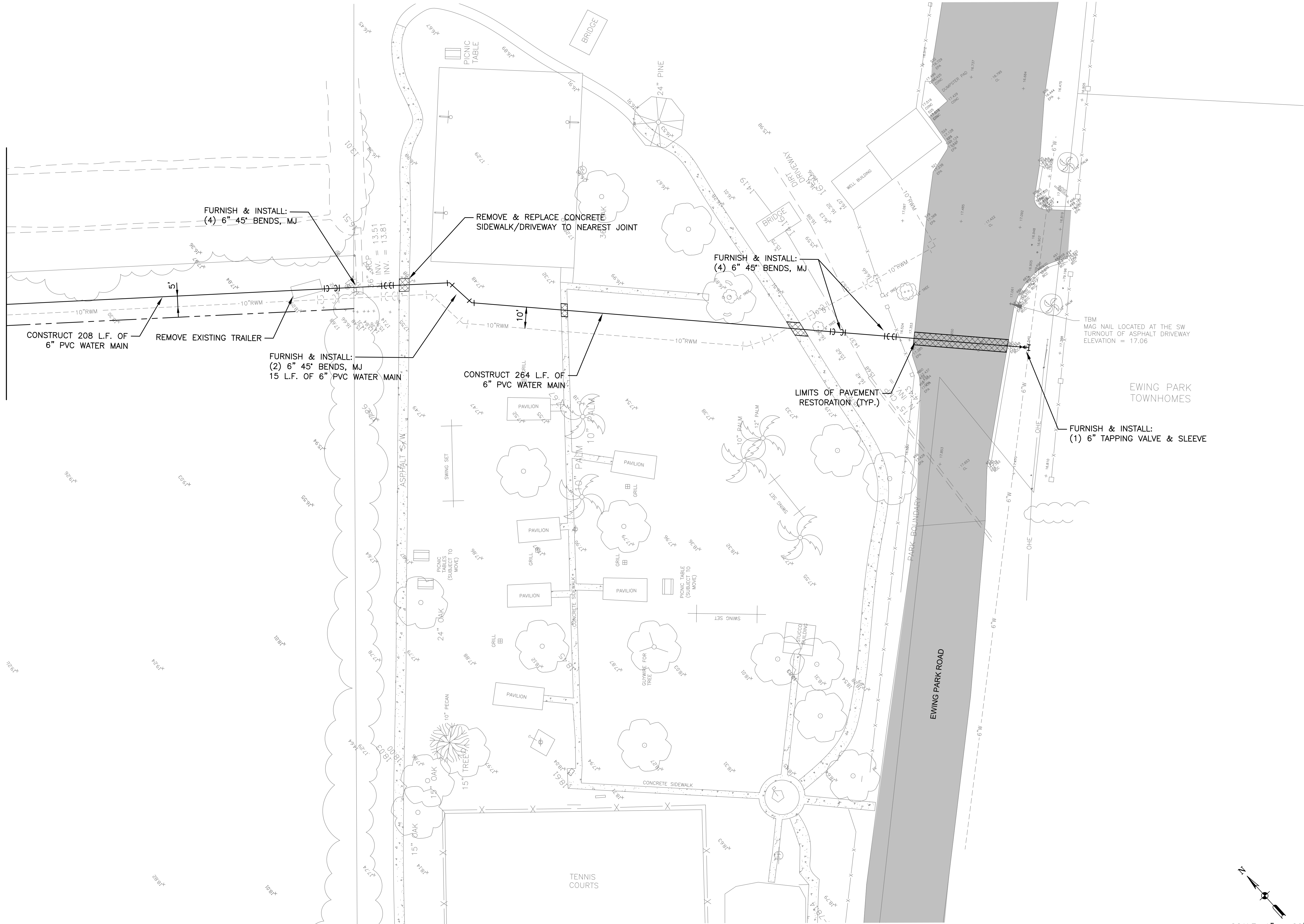
FOR CONTINUATION SEE SHEET 5



SCALE: 1" = 20'

<p>MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS</p> <p>580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESC.</td> <td style="width: 10%;">TPN</td> <td style="width: 10%;">CAR</td> <td style="width: 10%;">BY</td> <td style="width: 30%;">REVISION DESCRIPTION</td> </tr> <tr> <td>DRWN</td> <td>TPN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PROJ. MGR.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE</td> <td>10/21/21</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5" style="text-align: center;">1" = 1" INCH</td> </tr> </table>	DESC.	TPN	CAR	BY	REVISION DESCRIPTION	DRWN	TPN				PROJ. MGR.					DATE	10/21/21				1" = 1" INCH				
DESC.	TPN	CAR	BY	REVISION DESCRIPTION																						
DRWN	TPN																									
PROJ. MGR.																										
DATE	10/21/21																									
1" = 1" INCH																										
<p>TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Service Area No. 1 – Frank Brookins Dr. Nassau County, Florida</p>																										
<p>JOB NO. 0302-31-1 SHEET NO. 4</p>																										

FOR CONTINUATION SEE SHEET 4



FURNISH & INSTALL:
(4) 6" 45° BENDS, MJ

REMOVE & REPLACE CONCRETE
SIDEWALK/DRIVEWAY TO NEAREST JOINT

FURNISH & INSTALL:
(4) 6" 45° BENDS, MJ

CONSTRUCT 208 L.F. OF
6" PVC WATER MAIN

REMOVE EXISTING TRAILER

FURNISH & INSTALL:
(2) 6" 45° BENDS, MJ
15 L.F. OF 6" PVC WATER MAIN

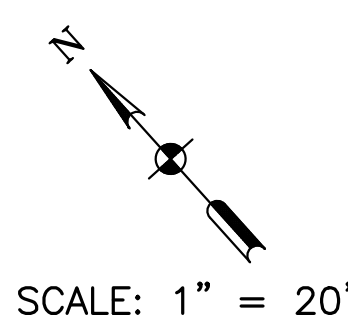
CONSTRUCT 264 L.F. OF
6" PVC WATER MAIN

LIMITS OF PAVEMENT
RESTORATION (TYP.)

FURNISH & INSTALL:
(1) 6" TAPPING VALVE & SLEEVE

TBM
MAG NAIL LOCATED AT THE SW
TURNOUT OF ASPHALT DRIVEWAY
ELEVATION = 17.06

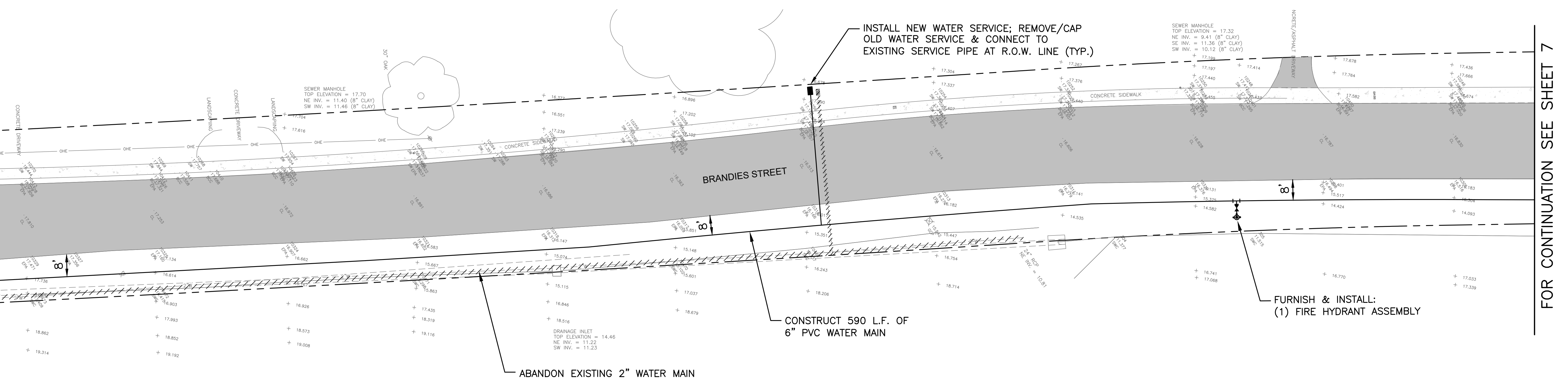
EWING PARK
TOWNHOMES



<p>MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS</p> <p>580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840</p>		<p>TPN CAR TPN</p> <p>DESC DRWN MGR.</p> <p>DATE 10/21/21</p> <p>1 INCH</p>	<p>NO</p> <p>DATE</p> <p>BY</p> <p>REVISION DESCRIPTION</p>
<p>TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Service Area No. 1 - Ewing Park Road Nassau County, Florida</p>		<p>JOB NO. 0302-31-1 SHEET NO. 5</p>	

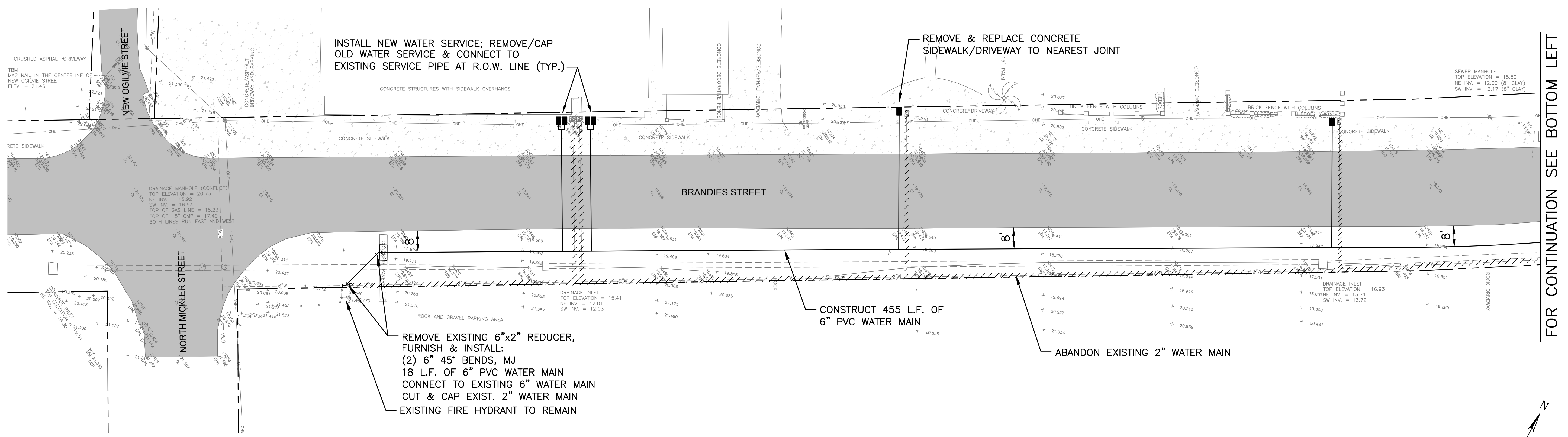
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SCALE: 1" = 20'

FOR CONTINUATION SEE SHEET 7

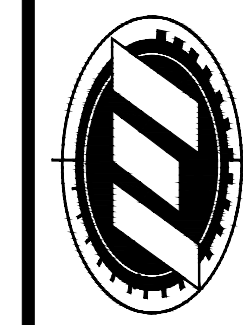


SCALE: 1" = 20'

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JOB NO.
0302-31-1
SHEET NO.
6

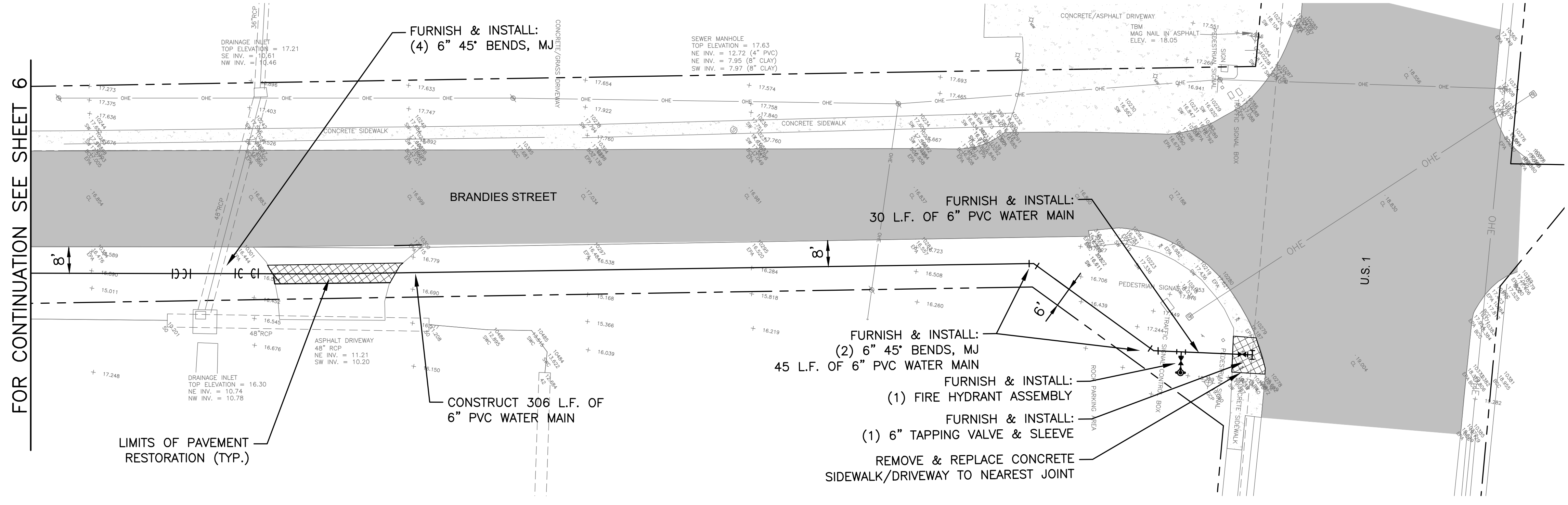
TOWN OF CALLAHAN
CBBC 20 NR Water Main Replacement & Extensions
Service Area No. 2 - Brandies Avenue
Nassau County, Florida



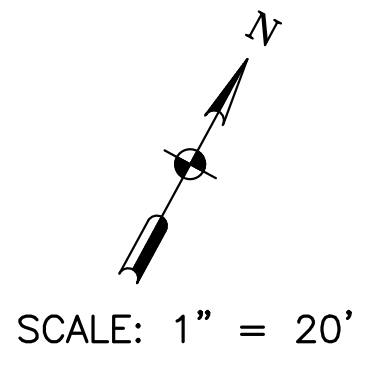
MITTAUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840

DESC	TPN	DATE	NO	BY	REVISION DESCRIPTION
DRWN	TPN	10/21/21			
PROJ MGR	TPN				

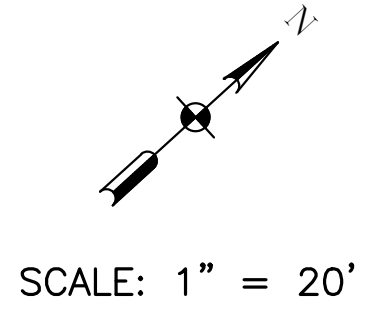
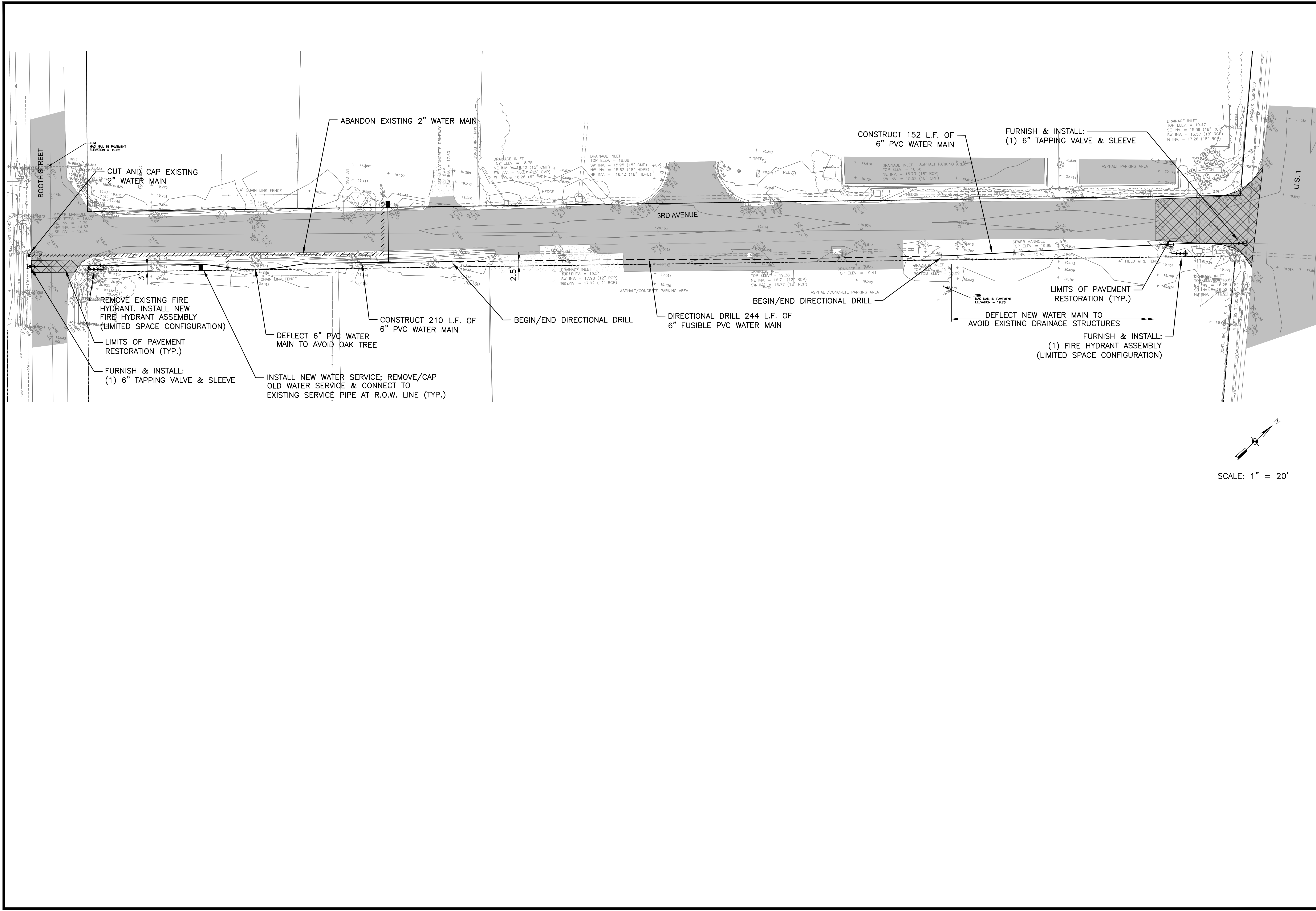
DESC	TPN	DATE	NO	BY	REVISION DESCRIPTION
TPN	TPN				



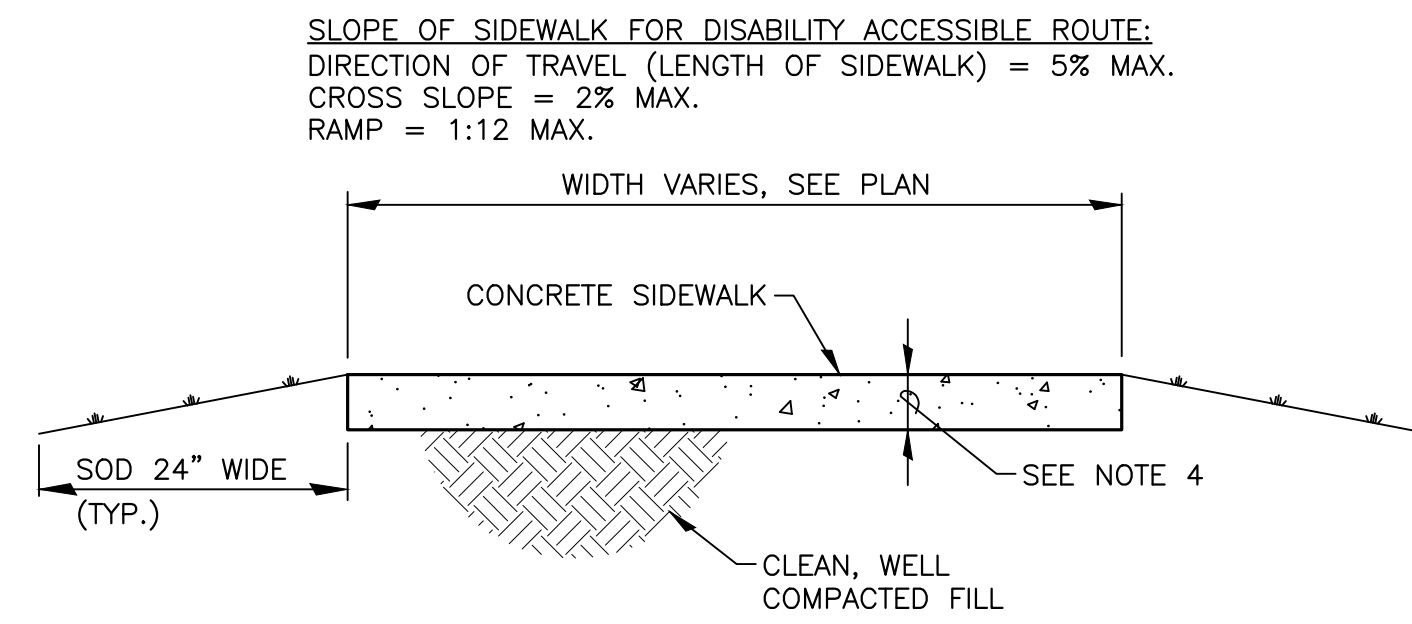
FOR CONTINUATION SEE SHEET 6



MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS 580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840	
TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Service Area No. 2 - Brandies Avenue Nassau County, Florida	JOB NO. 0302-31-1 SHEET NO. 7
DESC. DRWN. PROJ. MGR. DATE 10/21/21 TPN. CAR. TPN.	NO. DATE BY REVISION DESCRIPTION

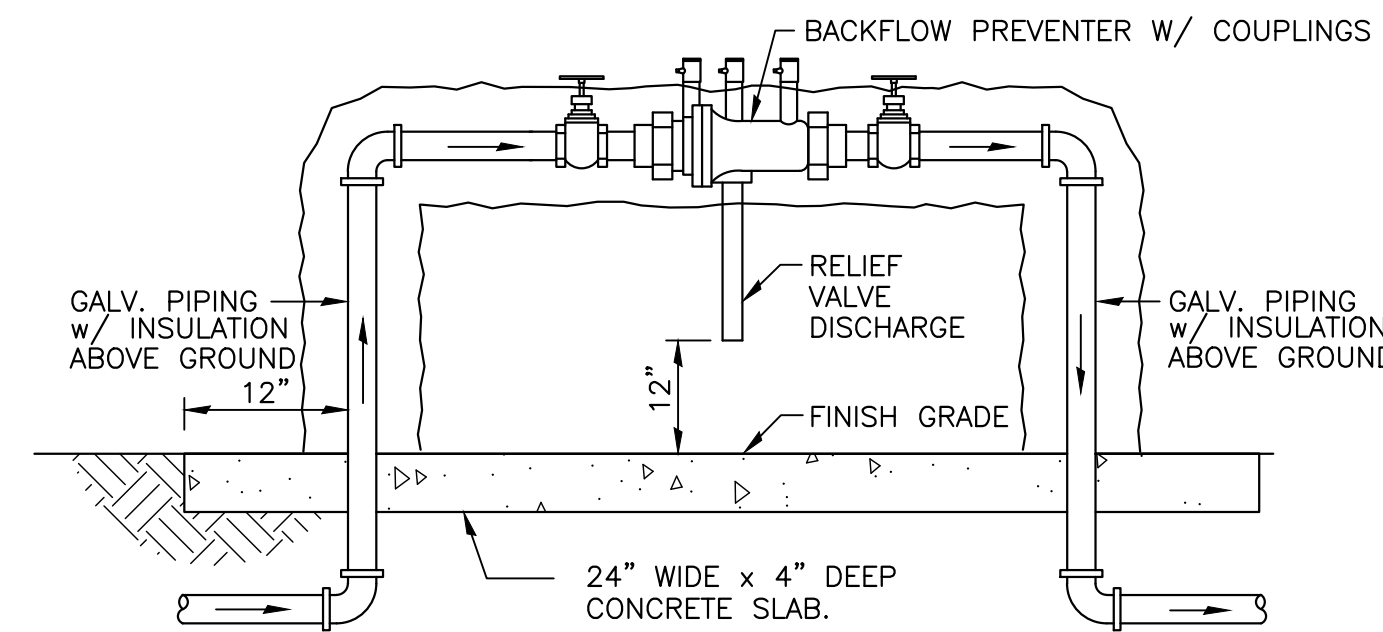


<p>MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS</p> <p>580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840</p>	
<p>TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Service Area No. 3 - 3rd Avenue South Nassau County, Florida</p>	<p>JOB NO. 0302-31-1 SHEET NO. 00</p>
<p>DESC. TPN DRWN. TPN PROJ. MGR. TPN DATE 10/21/21 SCALE 1" = 20'</p>	<p>NO. DATE BY</p>
<p>REVISION DESCRIPTION</p>	



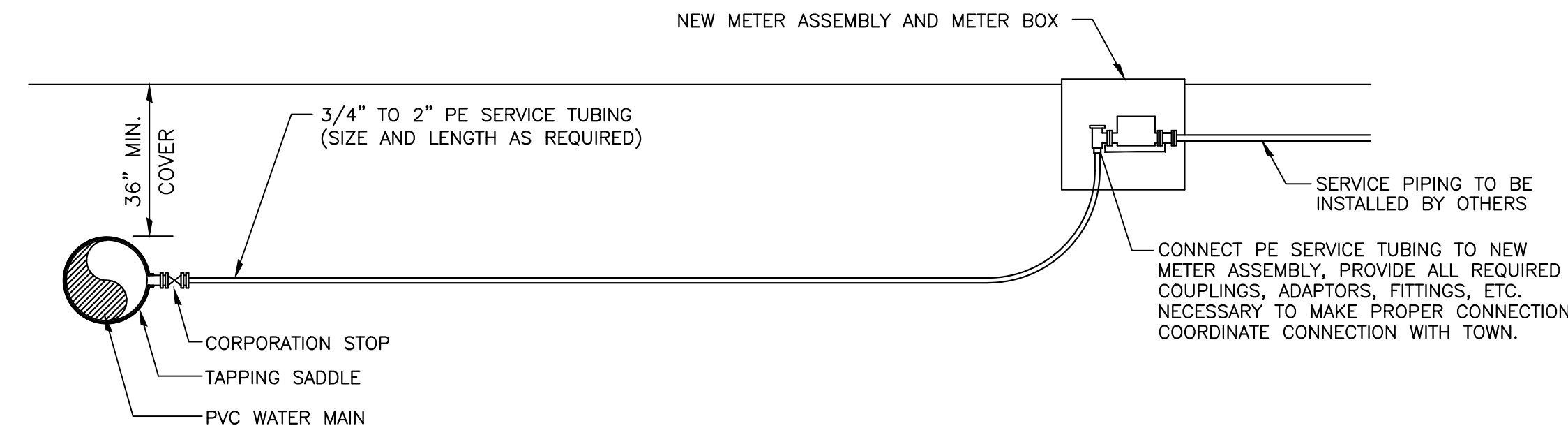
- NOTES:**
1. CONCRETE: 3,000 PSI
 2. CONTROL JOINTS: 1 1/4"D SAWCUT @ 5'-0" O.C.
 3. CONSTRUCTION JOINTS: 1/2" PREMOLDED JOINT MATERIAL AT 20'-0" O.C.
 4. TYPICAL SIDEWALK SECTIONS SHALL BE 4" THICK AND UNREINFORCED. AT AREAS SUBJECT TO VEHICULAR TRAFFIC THICKEN SECTION TO 6" AND REINFORCE WITH 6x6, W2.9xW2.9 WWF. EXTEND THICKENED SECTION 2' BEYOND ACCESS DOOR OR AS SHOWN ON DRAWINGS.

TYPICAL SIDEWALK SECTION
N.T.S.

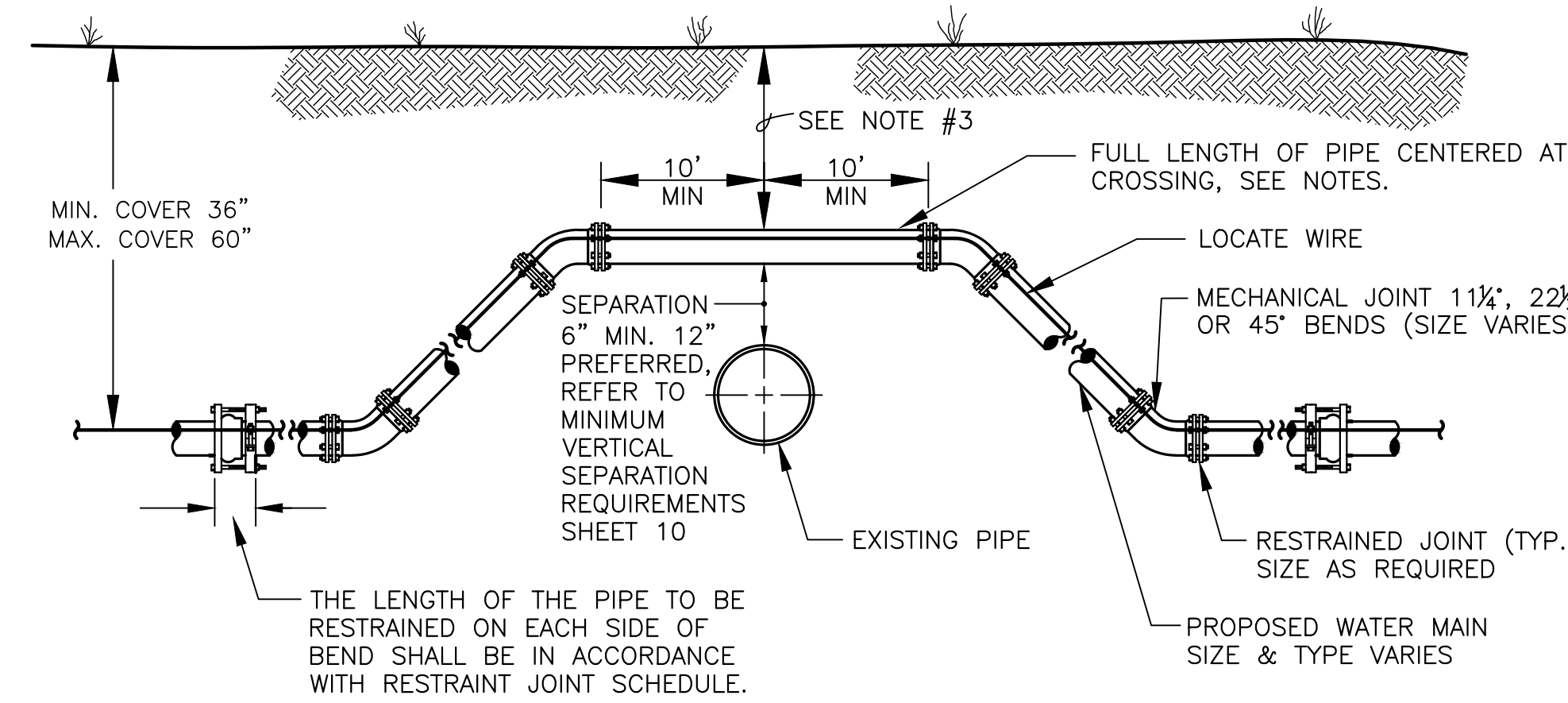


NOTE:
ALL ABOVE GROUND PIPING, FITTINGS, VALVES, ETC., ASSOCIATED WITH THE BACKFLOW PREVENTER SHALL BE FREEZE PROTECTED WITH INSULATION. INSULATION SHALL BE 3/4" THICK ELASTOMERIC THERMAL INSULATION WITH ALUMINUM OUTER COVERING. BYPASS METER, VALVE OPERATORS AND ALL TEST COCKS ON BACKFLOW PREVENTER SHALL BE EXTENDED BEYOND ALUMINUM OUTER COVERING FOR ANNUAL TESTING PURPOSES.

**REDUCED PRESSURE ZONE BACKFLOW PREVENTER
LESS THAN 3" IN DIAMETER**
N.T.S.

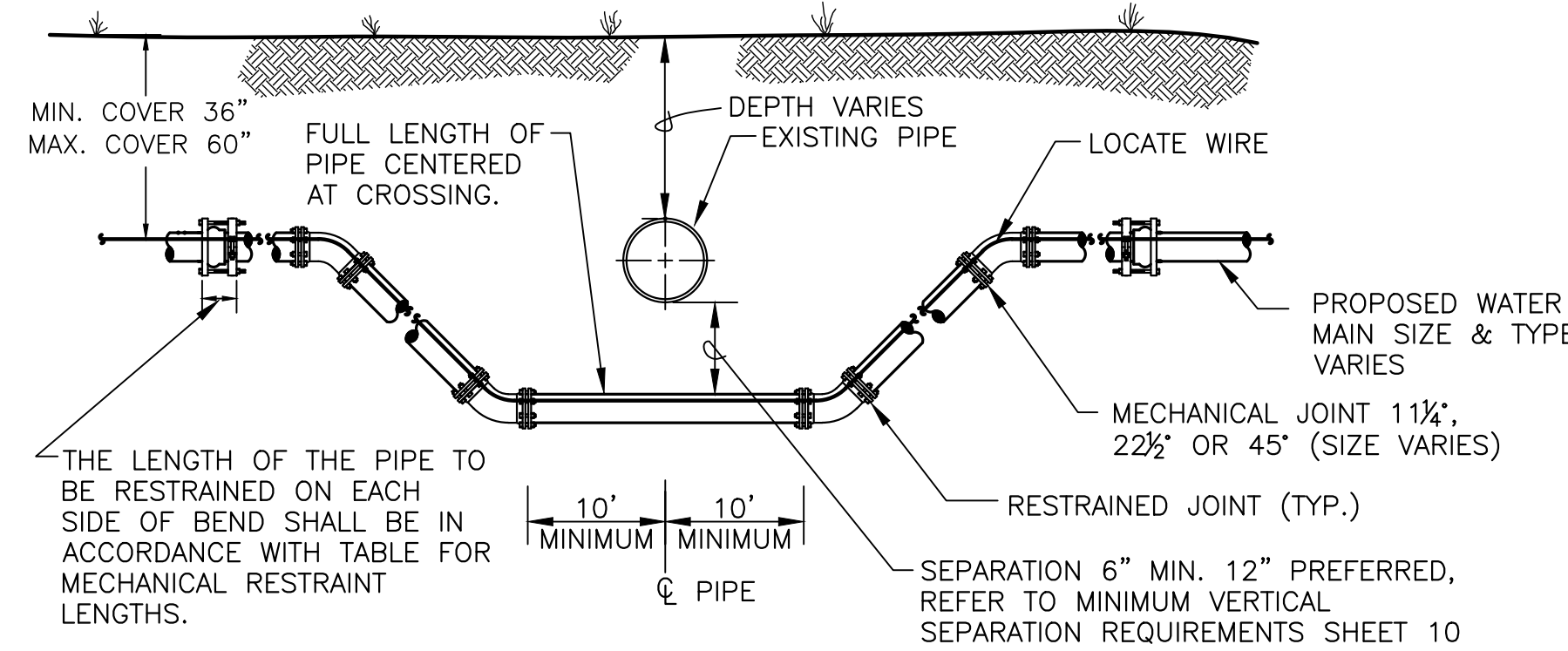


WATER SERVICE DETAIL
N.T.S.



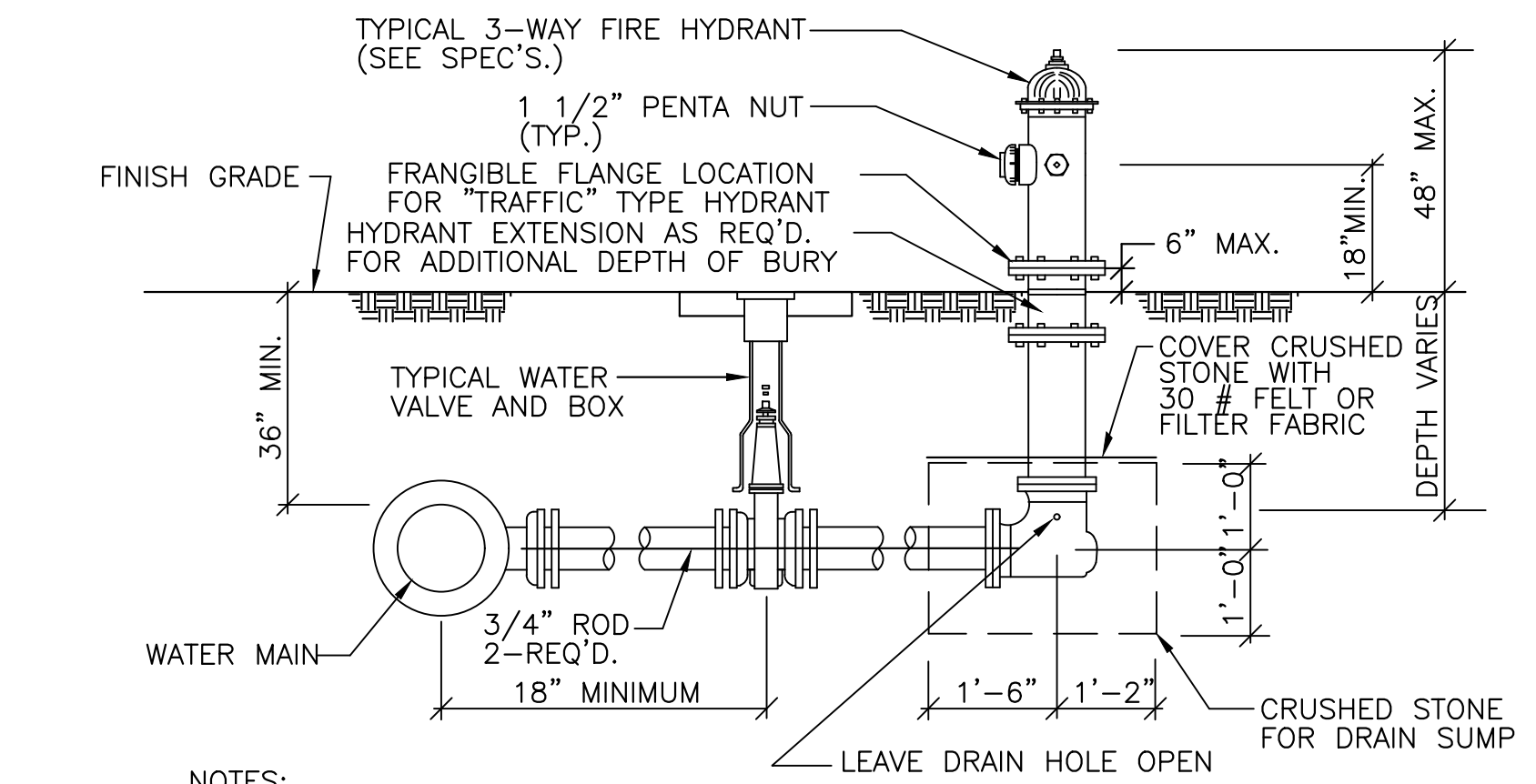
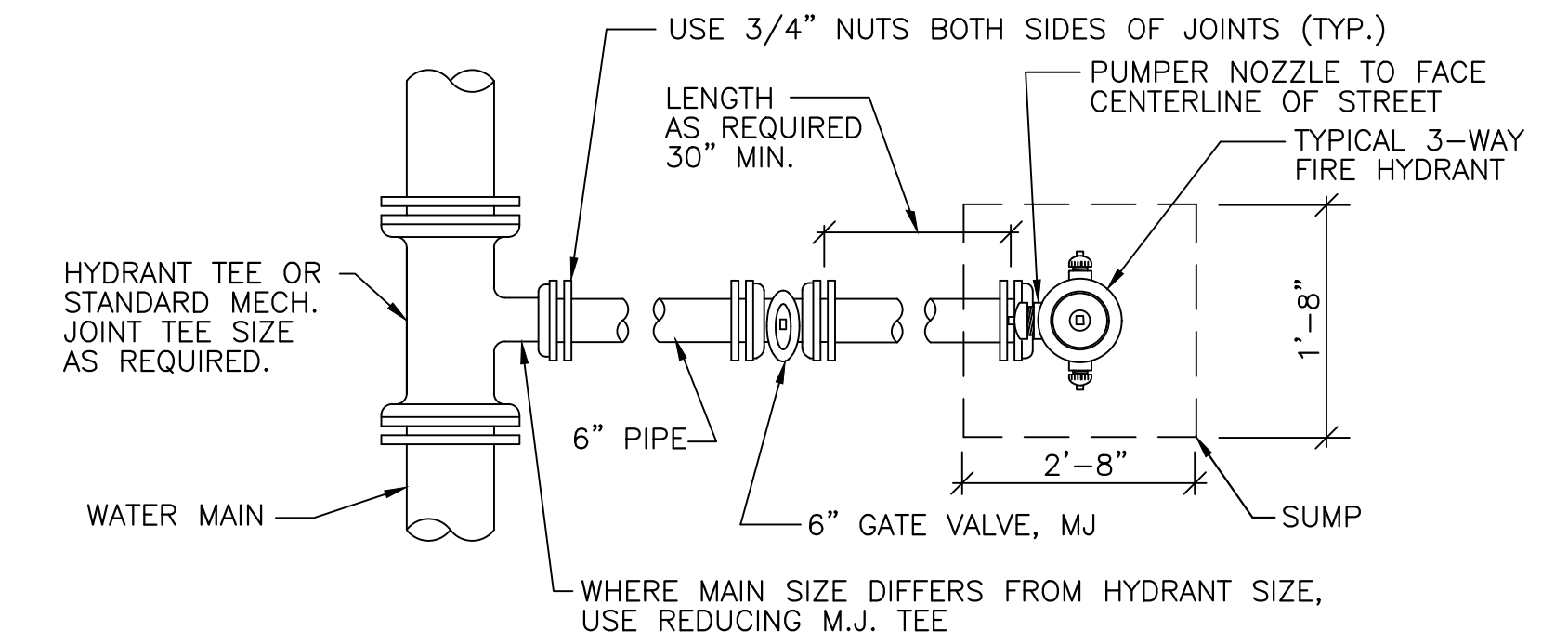
- NOTES:**
1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 2. MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.
 3. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

TYPE "A" CROSSING
N.T.S.



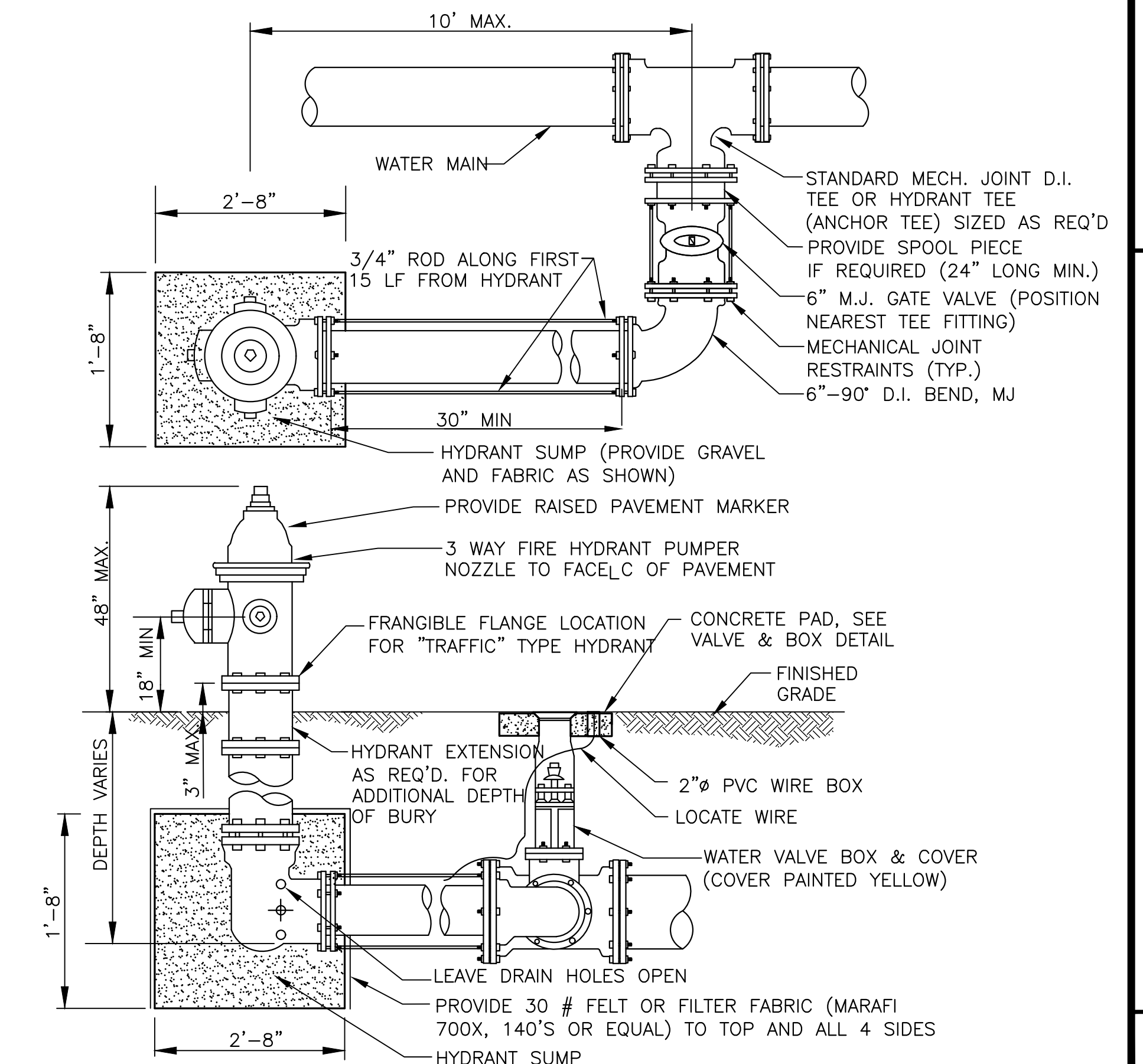
- NOTES:**
1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
 2. MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.

TYPE "B" CROSSING
N.T.S.



- NOTES:**
1. TIE RODS, NUTS, WASHERS AND OTHER FASTENERS SHALL BE ASTM A 246 CORROSION RESISTANT STEEL, GALVANIZED OR TYPE 316 STAINLESS STEEL.
 2. ALL PIPE, VALVES AND FITTINGS OF HYDRANT SHALL BE RESTRAINED.

TYPICAL FIRE HYDRANT INSTALLATION
N.T.S.



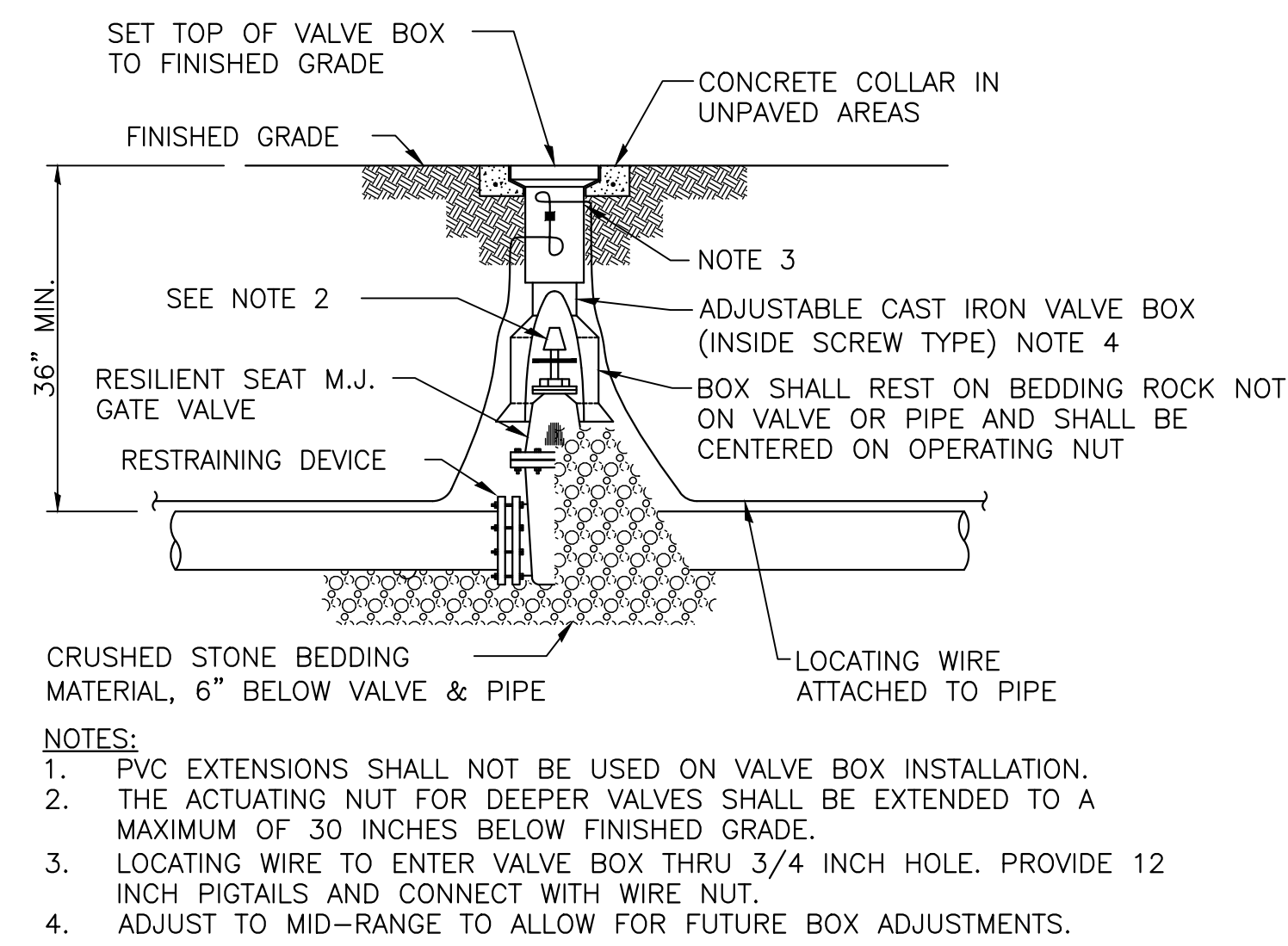
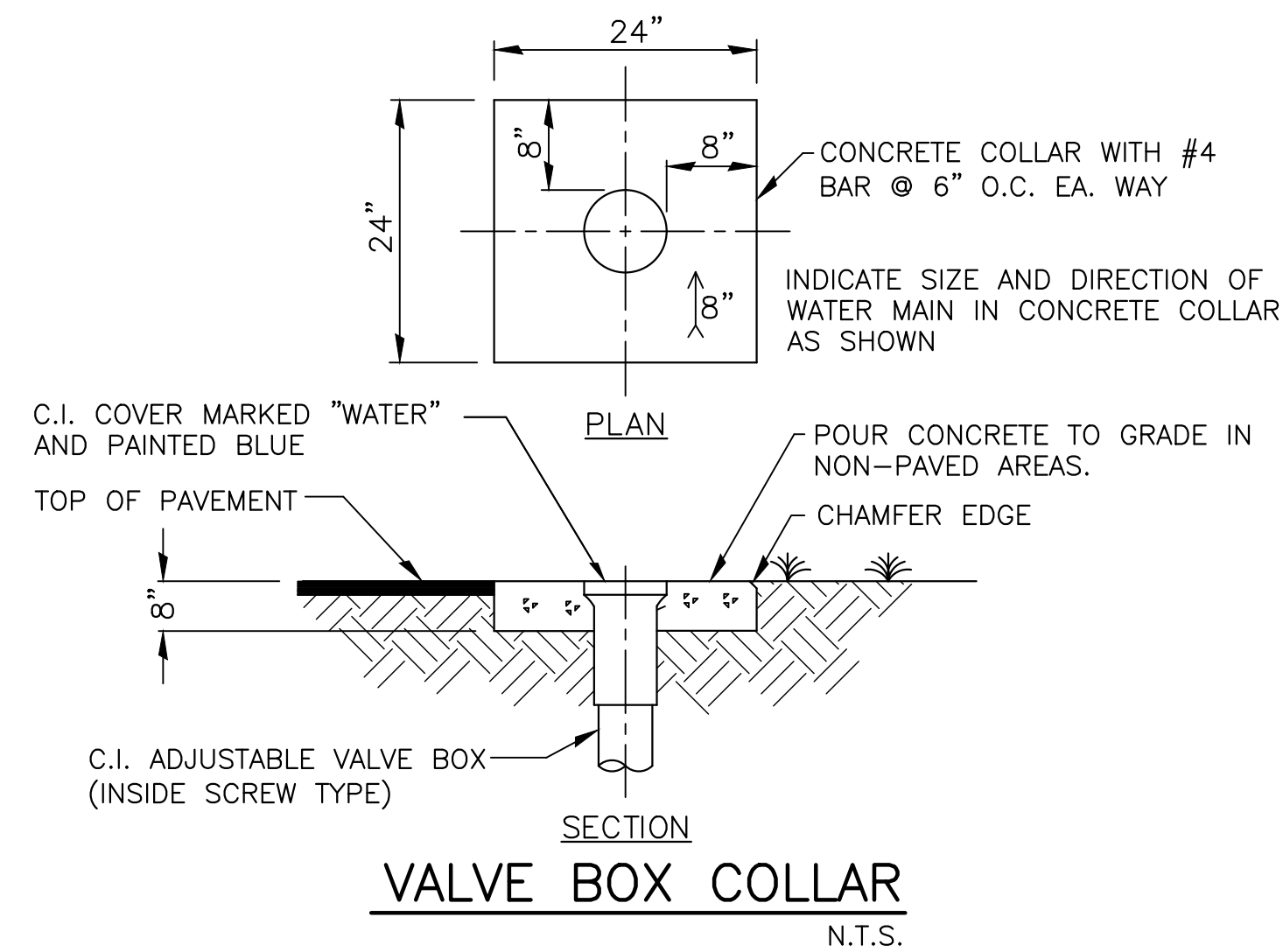
TYPICAL FIRE HYDRANT LIMITED SPACE INSTALLATION
N.T.S.

MITTALUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
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TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Typical Details
Nassau County, Florida

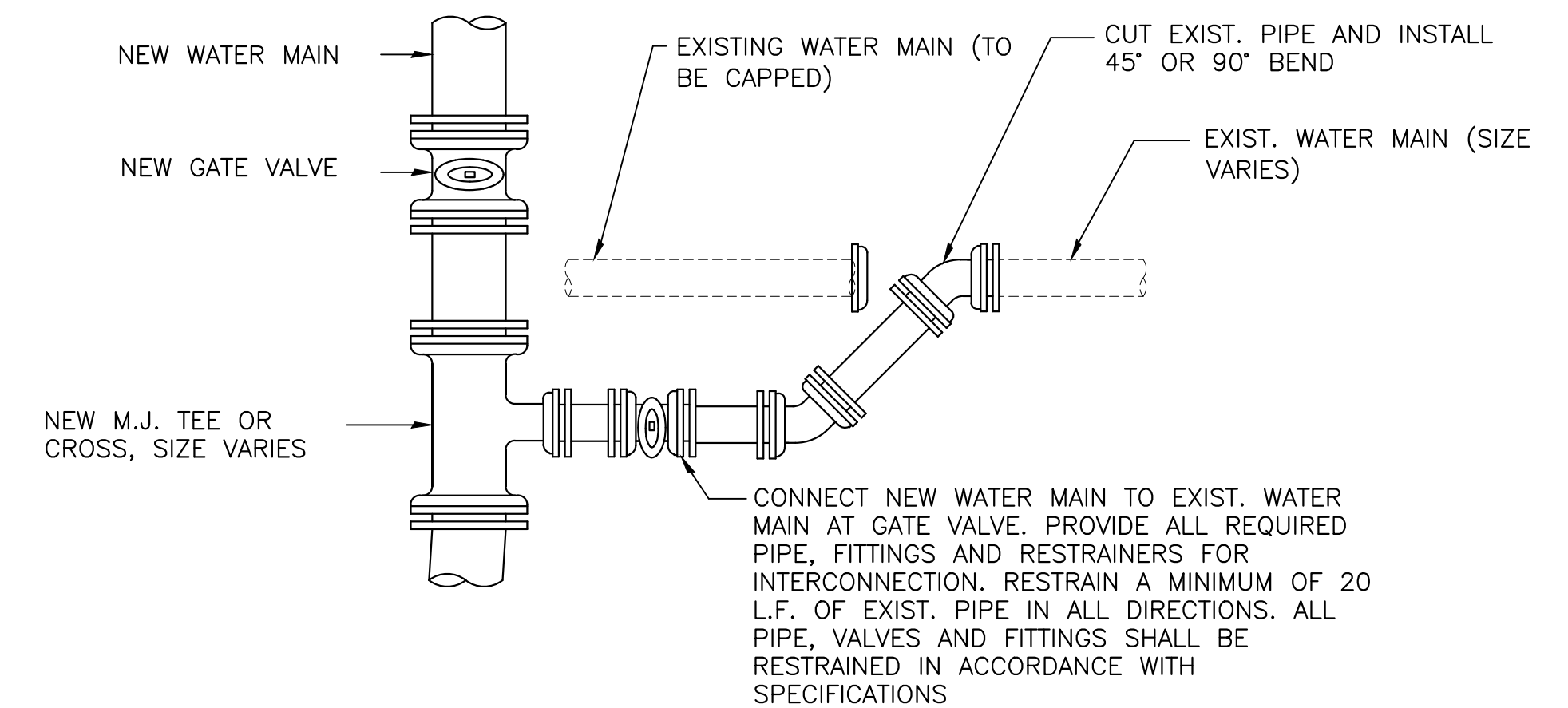
JOB NO. 0302-31-1
SHEET NO. 9

NO.	DATE	BY	REVISION DESCRIPTION



GATE VALVE & BOX

N.T.S.



TYPICAL EXIST. WATER MAIN RECONNECTION

N.T.S.

WATER MAIN PIPE	OTHER PIPING TYPE	MINIMUM HORIZONTAL SEPARATION (FEET)
REQUIRED HORIZONTAL SEPARATION	1. GRAVITY SANITARY SEWER	6-10
	2. GRAVITY SANITARY SEWER (WHERE BOTTOM OF WATER MAIN IS ≥ 6" ABOVE TOP OF GRAVITY SEWER)	3
	3. SEWAGE FORCE MAIN	6-10
	4. GRAVITY STORM SEWER	3
	5. RECLAIMED WATER	3
	6. ELECTRIC, PHONE, CABLE, GAS	2

MINIMUM HORIZONTAL SEPARATION REQUIREMENTS

N.T.S.

WATER MAIN PIPE	OTHER PIPING TYPE	MINIMUM VERTICAL SEPARATION (INCHES)
WATER MAIN ON TOP WITH JOINT CENTERED OVER OTHER UTILITY PIPE	1. GRAVITY SANITARY SEWER	6
	2. SEWAGE FORCE MAIN	12
	3. GRAVITY STORM SEWER	6-12
	4. RECLAIMED WATER	12
	5. ELECTRIC, PHONE, CABLE, GAS	6

NOTE:
1. IF THE WATER MAIN IS BELOW THE SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER PIPE, THEN A MINIMUM OF 12" VERTICAL SEPARATION IS REQUIRED.

MINIMUM VERTICAL SEPARATION REQUIREMENTS

N.T.S.

DESIGN: TPN
DRAWN: JSA
PROJ. MGR.: TPN
DATE: 10/21/21
SCALE: 1" = 1' INCH

MITTALUER & ASSOCIATES, INC.
CONSULTING ENGINEERS

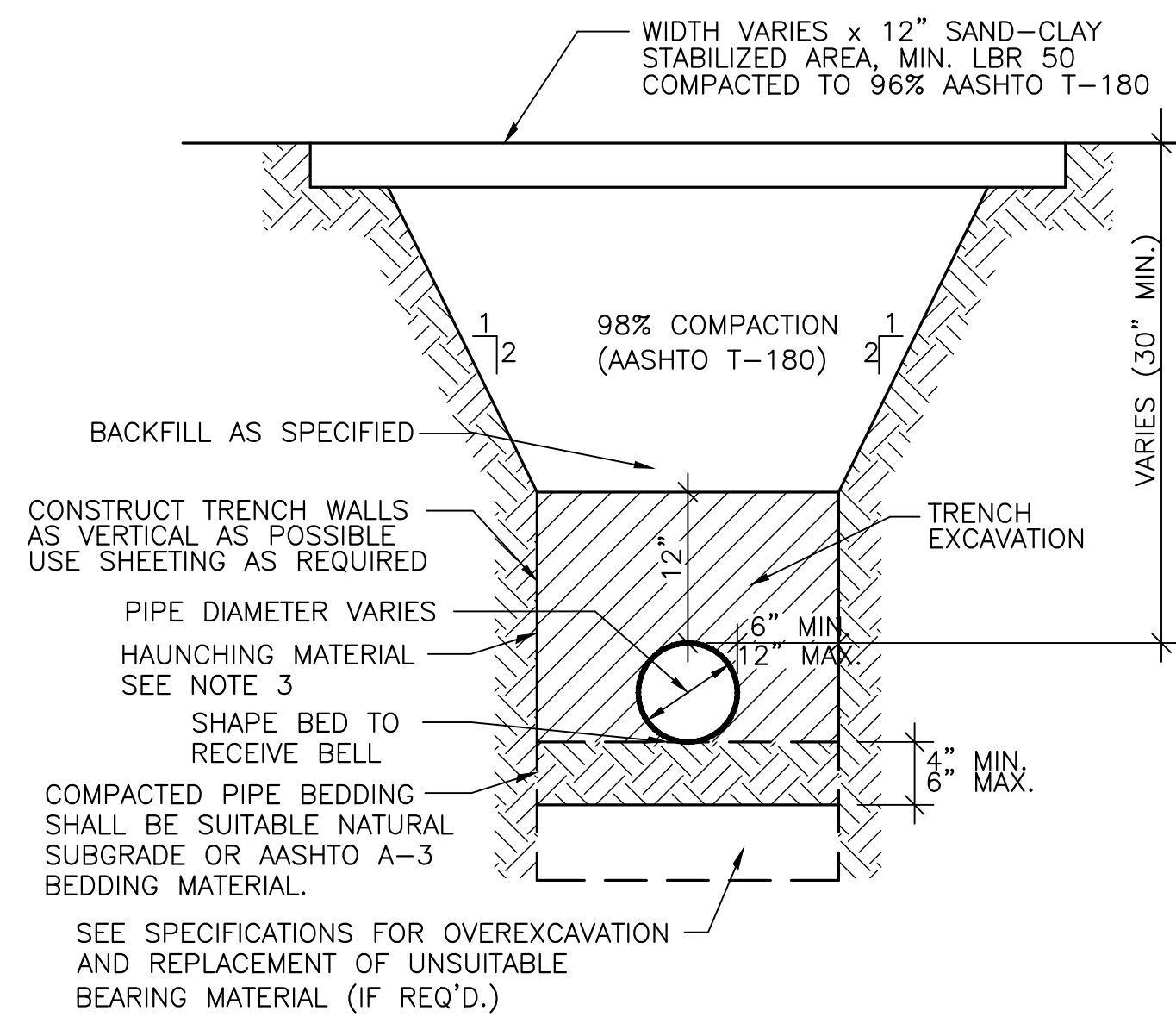


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TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Typical Details
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO.

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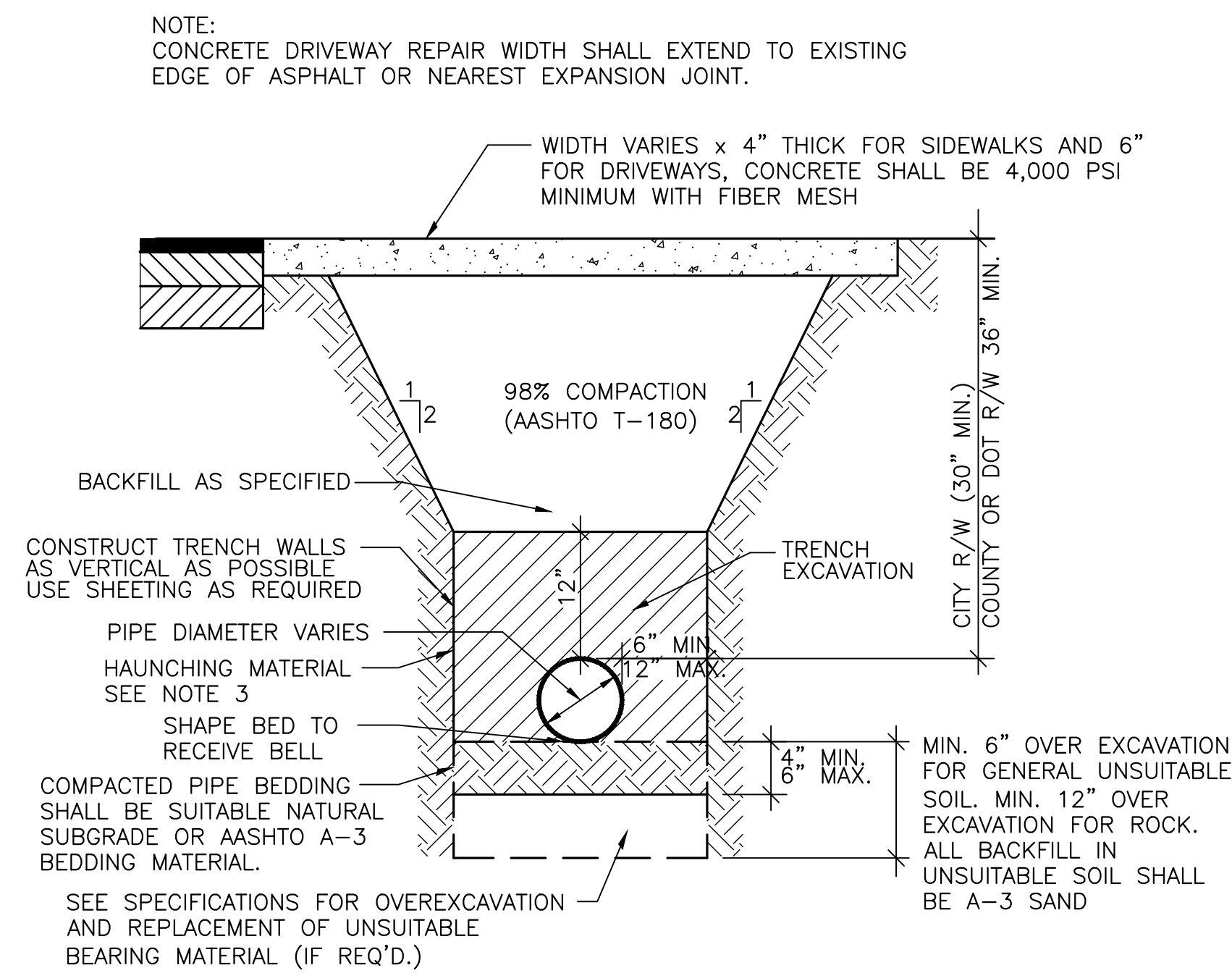


**TRENCH DETAIL IN
STABILIZED ROADS & DRIVEWAYS**

N.T.S.

NOTES:

1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE WATER TABLE.
2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL.
3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE.
4. ENGINEER WILL ALLOW THE INSTALLATION OF THE PIPE BY TRENCHING METHOD OF EXCAVATION.



TRENCH DETAIL IN CONCRETE DRIVEWAYS AND SIDEWALKS

N.T.S.

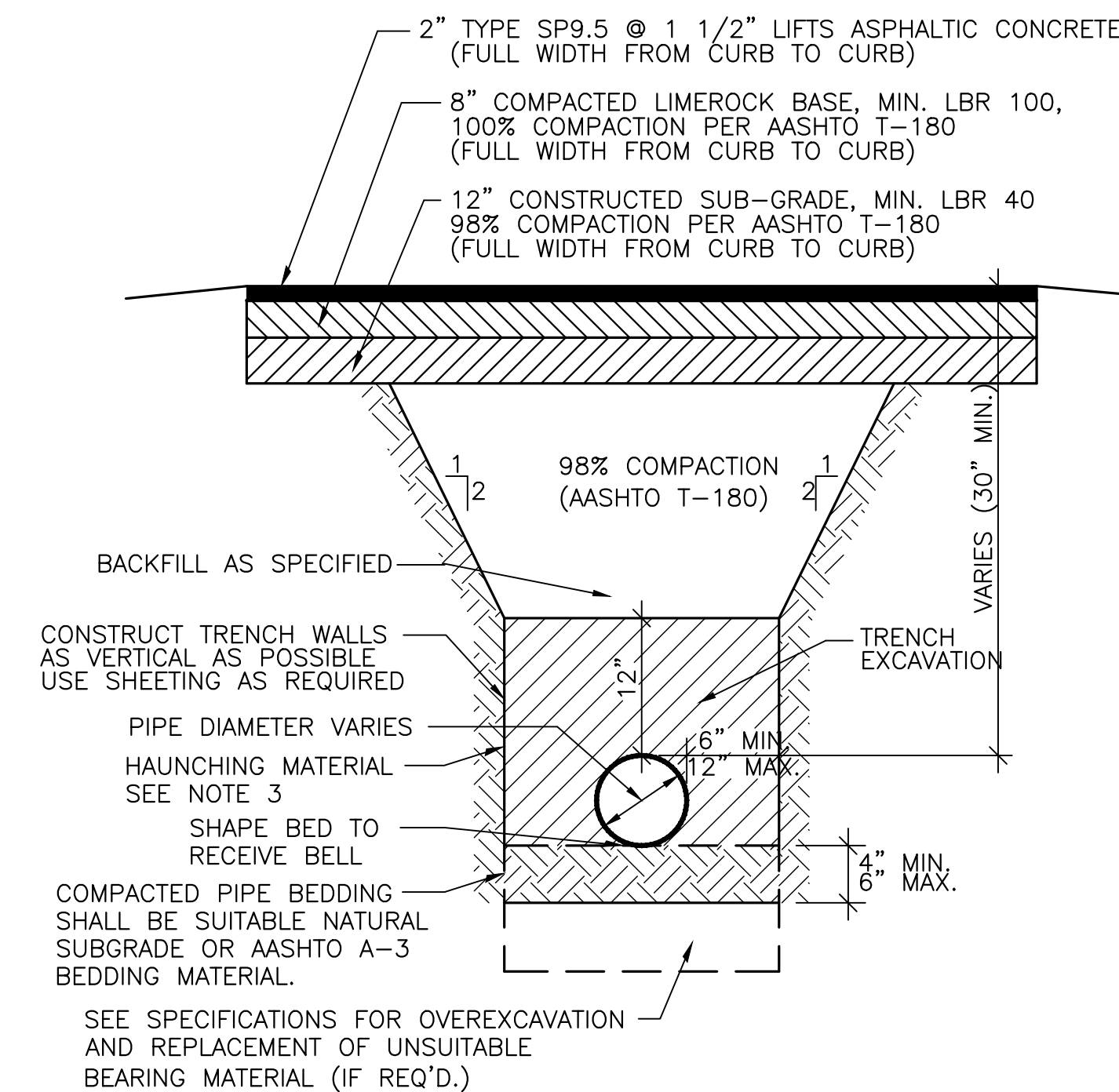
NOTE:

CONCRETE DRIVEWAY REPAIR WIDTH SHALL EXTEND TO EXISTING EDGE OF ASPHALT OR NEAREST EXPANSION JOINT.

- BACKFILL AS SPECIFIED
- CONSTRUCT TRENCH WALLS AS VERTICAL AS POSSIBLE USE SHEETING AS REQUIRED
- PIPE DIAMETER VARIES SEE NOTE 3
- SHAPE BED TO RECEIVE BELL
- COMPACTED PIPE BEDDING SHALL BE SUITABLE NATURAL SUBGRADE OR AASHTO A-3 BEDDING MATERIAL.
- SEE SPECIFICATIONS FOR OVEREXCAVATION AND REPLACEMENT OF UNSUITABLE BEARING MATERIAL (IF REQ'D.)
- MIN. 6" OVER EXCAVATION FOR GENERAL UNSUITABLE SOIL. MIN. 12" OVER EXCAVATION FOR ROCK. ALL BACKFILL IN UNSUITABLE SOIL SHALL BE A-3 SAND

NOTES:

1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE WATER TABLE.
2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL.
3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE. ALL BEDDING, PIPE EMBEDMENT & HAUNCHING MATERIAL SHALL PASS THRU A 3/4" SIEVE FOR DUCTILE IRON PIPE & A 1/2" SIEVE FOR PLASTIC PIPE.
4. ENGINEER WILL ALLOW THE INSTALLATION OF PIPE BY TRENCHING METHOD OF EXCAVATION.



**TRENCH DETAIL
AND PAVEMENT REPLACEMENT
ASPHALT PAVED ROADS & DRIVEWAYS**

N.T.S.

NOTES:

1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE WATER TABLE.
2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL.
3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE.
4. ENGINEER WILL ALLOW THE INSTALLATION OF PIPE SYSTEM BY TRENCHING METHOD OF EXCAVATION.

DESIGNER	TPN	DATE	10/21/21
DRAWN	USA	NO.	
PROJECT MGR.	TPN	DATE	
BY		DATE	
REVISION DESCRIPTION			

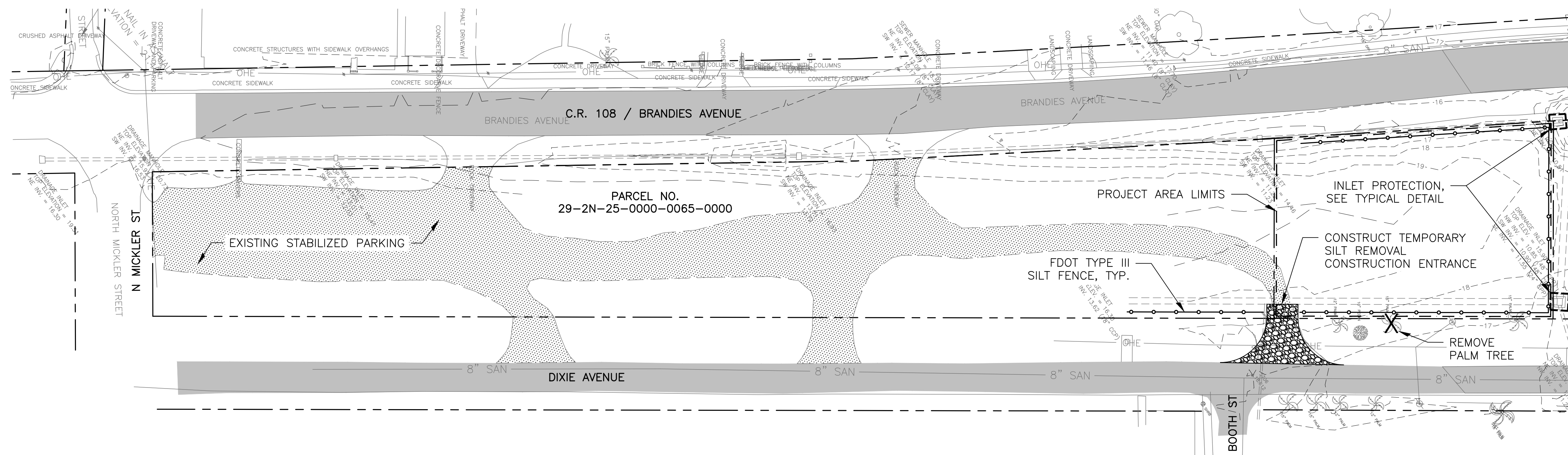
1 INCH

MITTALUER & ASSOCIATES, INC.
CONSULTING ENGINEERS

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TEL. (904) 278-0030 FAX. (904) 278-0840

TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Typical Details
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO. 11



SITE INFORMATION - DEPOT PARK

PARCEL I.D.: 29-2N-25-0000-0065-0000
 FLOOD ZONE = X
 FLOOD PANEL NO. = 12089C0304F
 ZONING = TBD
 SJRWMD STORMWATER PERMIT = APPLICATION SUBMITTED CONCURRENTLY

TOTAL ACRES OF SITE = 2.19 AC.
 TOTAL PROJECT AREA = 0.50 AC.
 EXISTING IMPERVIOUS AREA = 30,332 S.F.
 PROPOSED IMPERVIOUS AREA = 2,532 S.F.
 PROPOSED BUILDING AREA = 1,861 S.F.
 PROPOSED SIDEWALK AREA = 671 S.F.
 % IMPERVIOUS AREA (TOTAL SITE) = 34.5%

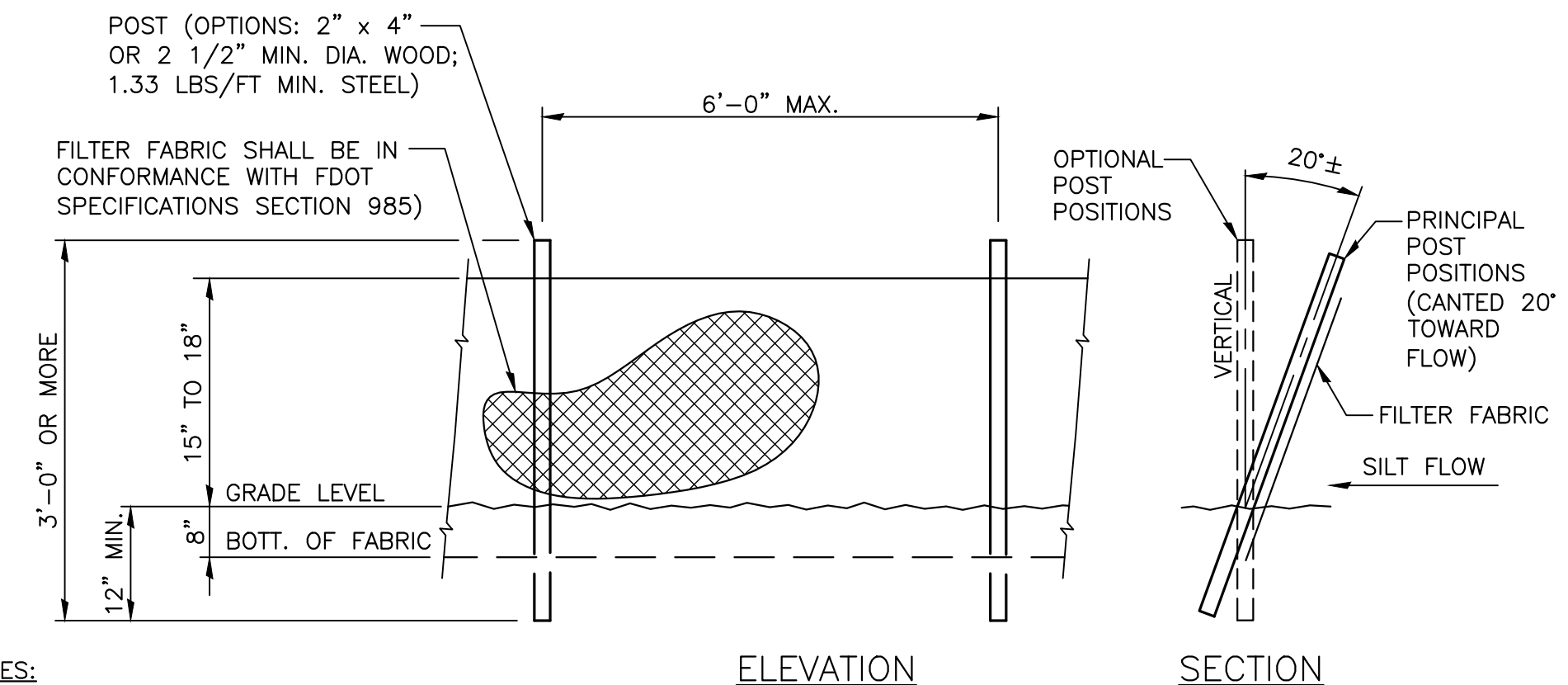
PARKING CALCULATIONS REQUIRED
 PAVILION AREA (1 SPACE x 300 S.F.) = 1
 MINIMUM REQUIRED PARKING = 1

TOTAL REQUIRED PARKING = 1

TOTAL ADA ACCESSIBLE SPACES REQUIRED = 1

PARKING CALCULATIONS PROVIDED
 REGULAR SPACES PROVIDED = 2
 HANDICAP SPACES PROVIDED = 1
 COMPACT SPACES PROVIDED = 0
 TOTAL SPACES PROVIDED = 3

DEPOT PARK EXISTING SITE PLAN
 1" = 40'

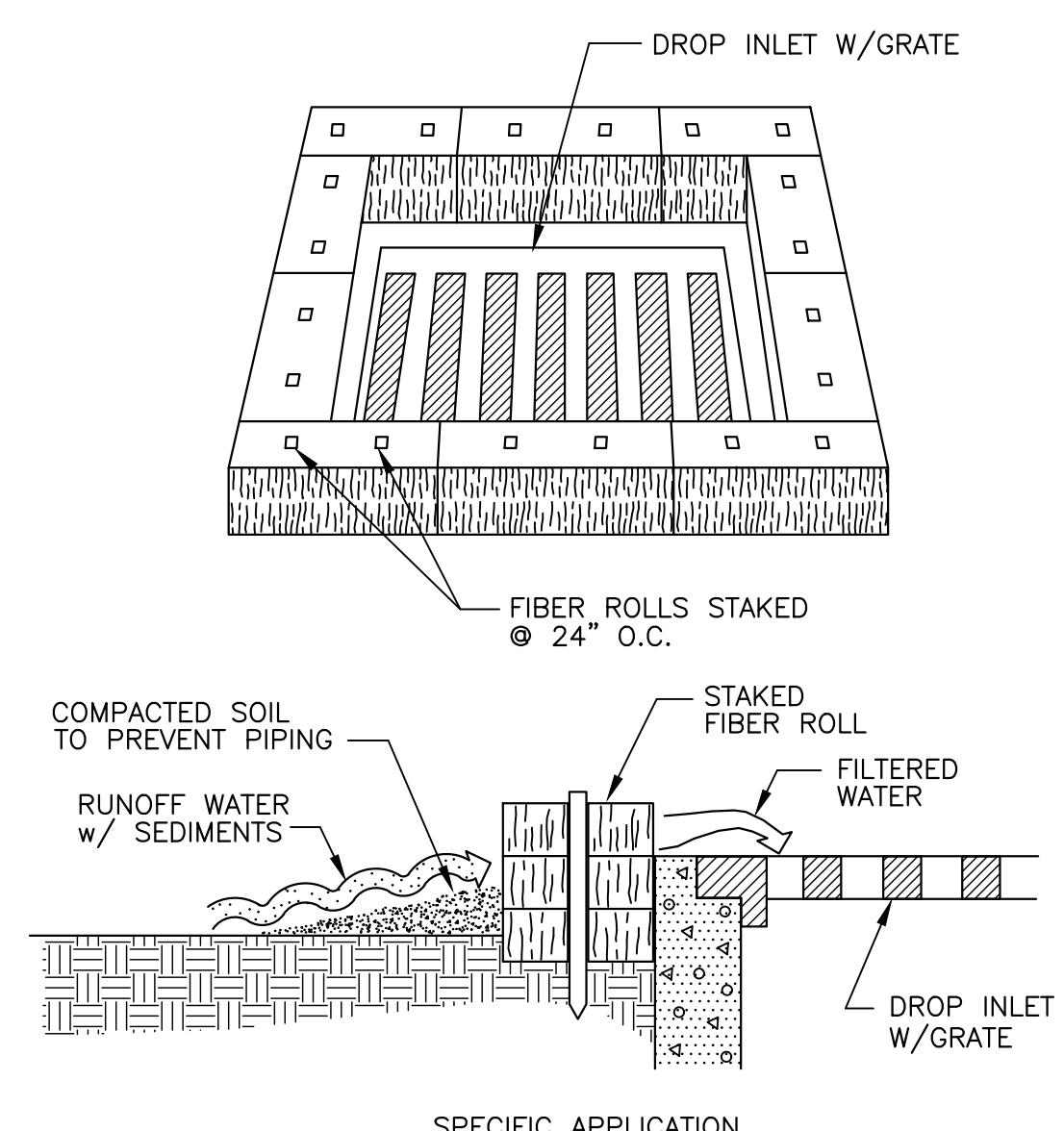


- NOTES:**
- WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, 2010, INDEX NO. 102, SHEET 1 OF 3, CHART NO. 1.
 - INSTALLER MUST BE AN FDEP CERTIFIED AS A SEDIMENT AND EROSION CONTROL PROFESSIONAL.

TYPE III SILT FENCE
 NTS

EROSION & SEDIMENTATION CONTROL NOTES:

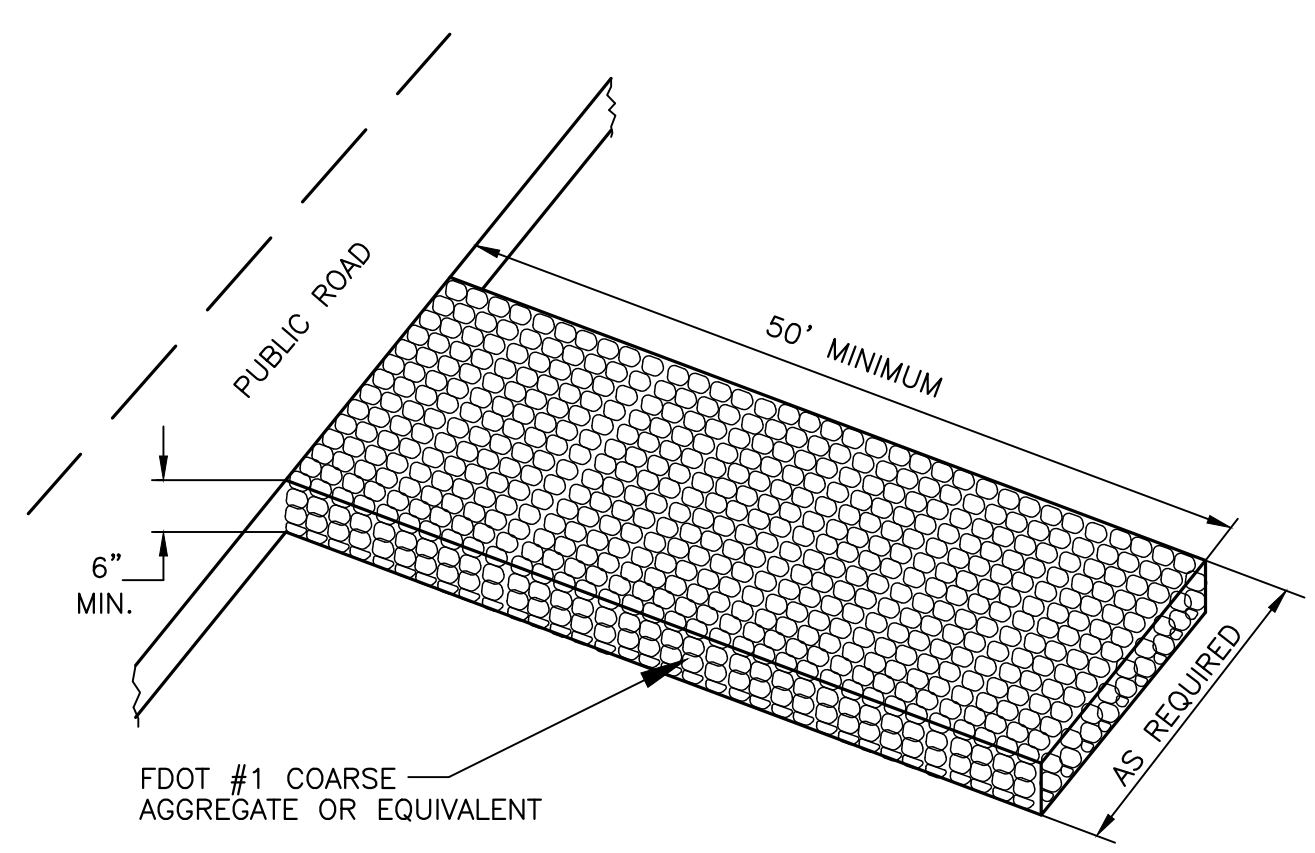
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, ACQUIRING AND ADHERING TO THE NOTICE OF INTENT TO USE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH SECTION 02370 OF THE SPECIFICATIONS.
- DURING ANY CONSTRUCTION ACTIVITY, INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN SELECTION, IMPLEMENTATION AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN CHAPTER 62-3 AND 62-4, F.A.C. THE CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES DESCRIBED IN THE STATE OF FLORIDA EROSION & SEDIMENT CONTROLS DESIGNER & REVIEWER MANUAL, LATEST EDITION (E&SC). ALL TURBIDITY/SILT BARRIERS MUST BE IN PLACE DOWNGRADIENT FROM THE CONSTRUCTION ZONE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. THE TYPE AND PLACEMENT OF THE BARRIERS SHALL CONFORM WITH THE E&SC. THE BARRIERS SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED.
- SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. CONTROLS SHALL REMAIN IN-PLACE AND BE MAINTAINED UNTIL PROPER GROUND COVER OR OTHER STABILIZATION HAS BEEN ESTABLISHED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL CONSTRUCT EROSION & SEDIMENT INLET PROTECTION AT ALL STORM DRAIN INLETS, SEE DETAIL.
- EXCEPT WHERE SPECIFIC REQUIREMENTS ARE NOTED, EROSION & SEDIMENTATION CONTROLS SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MODIFY OR SUPPLEMENT THESE CONTROLS, AS NECESSARY, TO DEVELOP A SITE AND PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL MEET THE REQUIREMENTS OF THE FIELD CONDITIONS ENCOUNTERED AND CONFORM TO THE CONTRACTOR'S PROPOSED MEANS AND METHODS WHILE REMAINING COMPLIANT WITH ALL PERMITTING.
- THE CONTRACTOR'S CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MINIMUM OF 6-INCHES OF GRAVEL THE WIDTH OF THE DRIVE AND FOR A DISTANCE OF 25- FEET BEGINNING AT THE PROPERTY LINE AND EXTENDING ON THE PROJECT PROPERTY.
- THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GENERAL CONSTRUCTION SEQUENCE:
 - ERECT ALL EROSION & SEDIMENT CONTROLS.
 - PREPARE AND PROTECT STAGING AREAS AND CONSTRUCTION AREAS.
 - CONSTRUCT STORMWATER COLLECTION AND TREATMENT SYSTEM.
 - SOD AND STABILIZE POND BANKS.
 - PROCEED WITH OTHER ELEMENTS OF PROJECT.
- CONTRACTOR SHALL PROVIDE & INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY TO REMAIN IN COMPLIANCE WITH ALL LOCAL, STATE & FEDERAL REGULATIONS.
- MAINTAIN ALL TEMPORARY EROSION CONTROLS FOR THE DURATION OF THE WORK AND REPAIR AS NECESSARY.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROLS BY SUBSTANTIAL COMPLETION OF THE PROJECT. ALL DISTURBANCE/DAMAGE INCURRED DURING REMOVAL SHALL BE REPAIRED.
- ALL AREAS DISTURBED BY CONSTRUCTION AND NOT OTHERWISE RECEIVING PERMANENT IMPROVEMENTS, SHALL BE STABILIZED WITH SOD IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT NEWLY INSTALLED STRUCTURES (I.E. INLETS AND MANHOLES) FROM FILLING WITH SILT AND DEBRIS.
- STOCKPILES OF MATERIALS SHALL NEITHER IMPEDE NOR DISTURB NATURAL DRAINAGE PATTERNS. THE CONTRACTOR SHALL USE DIVERSION SWALES AND SEDIMENT BASINS AS NECESSARY TO REDIRECT DRAINAGE PATTERNS IF NECESSARY TO PREVENT SEDIMENTATION FROM ADVERSELY IMPACTING PROPERTY OFFSITE.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT JURISDICTIONAL AREAS (WETLANDS) OR AREAS TO REMAIN UNDISTURBED FROM IMPACTS DUE TO CONSTRUCTION ACTIVITIES.
- SEED AND MULCH ALL DISTURBED AREAS WITHIN 14 DAYS; SOD AS REQUIRED TO CONTROL EROSION THROUGH FINAL INSPECTION AND TO PRODUCE A UNIFORM STAND OF GRASS COVER.



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

INLET PROTECTION DETAIL
 NTS



SILT REMOVAL CONSTRUCTION ENTRANCE
 NTS

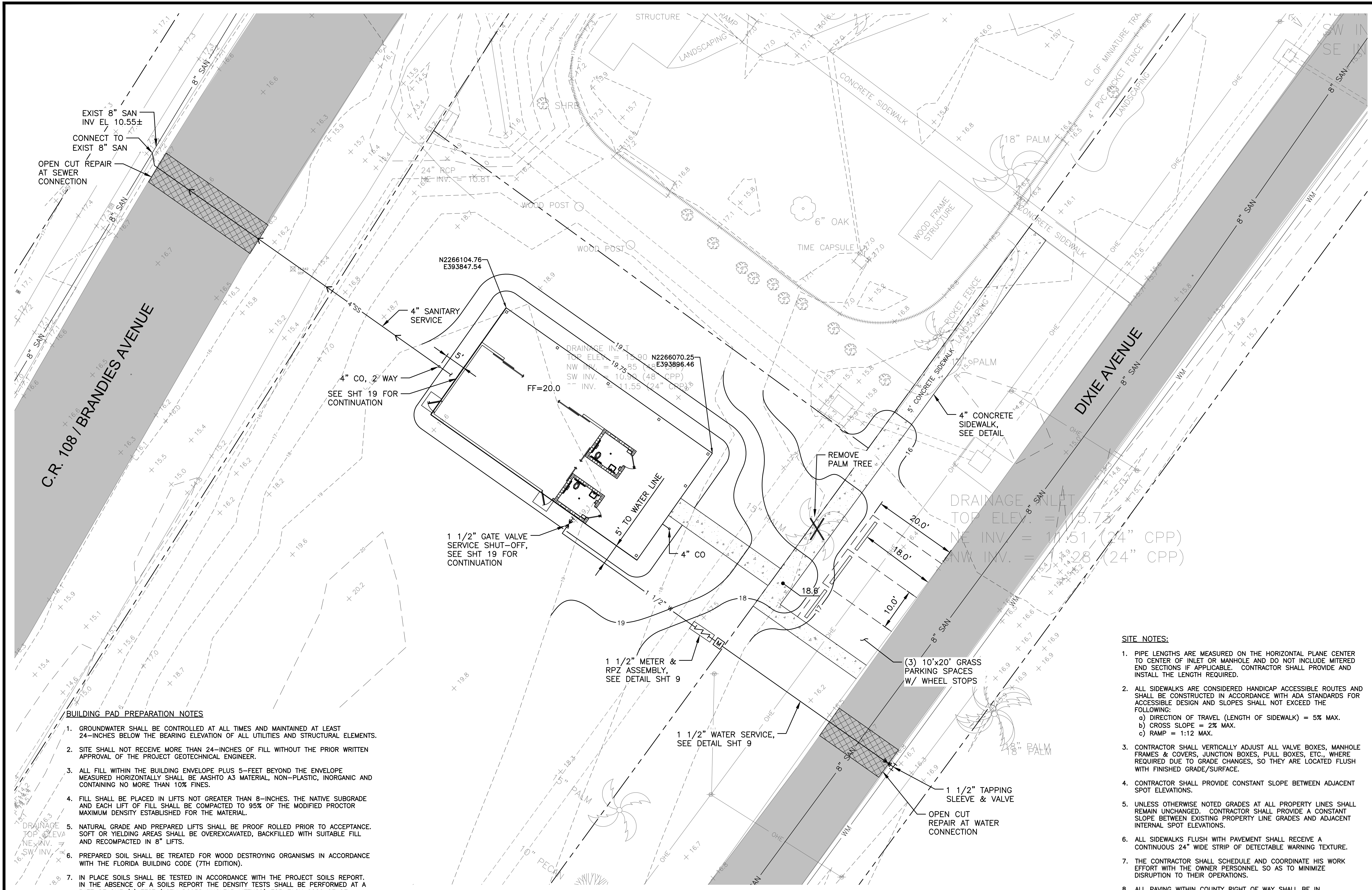
DESIGN: MPT, MAL, TPN
 DRAWN: MPT, MAL, TPN
 PROJ. MGR.: MPT, MAL, TPN
 DATE: 10/21/21
 SCALE: 1" = 1' INCH

MITTALUER & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
 TEL. (904) 278-0030 FAX. (904) 278-0040

TOWN OF CALLAHAN
 CDBG 20 NR Water Main Replacement & Extensions
 Depot Park Existing Site Plan
 Nassau County, Florida

JOB NO. 0302-31-1
 SHEET NO. 12

M:\CAD Files\Callahan\0302311 CDBG WM Replacement & Ext\Design\SH13.dwg, SH13

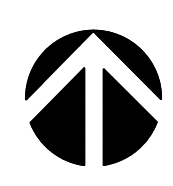


BUILDING PAD PREPARATION NOTES

- GROUNDWATER SHALL BE CONTROLLED AT ALL TIMES AND MAINTAINED AT LEAST 24-INCHES BELOW THE BEARING ELEVATION OF ALL UTILITIES AND STRUCTURAL ELEMENTS.
- SITE SHALL NOT RECEIVE MORE THAN 24-INCHES OF FILL WITHOUT THE PRIOR WRITTEN APPROVAL OF THE PROJECT GEOTECHNICAL ENGINEER.
- ALL FILL WITHIN THE BUILDING ENVELOPE PLUS 5- FEET BEYOND THE ENVELOPE MEASURED HORIZONTALLY SHALL BE AASHTO A3 MATERIAL, NON-PLASTIC, INORGANIC AND CONTAINING NO MORE THAN 10% FINES.
- FILL SHALL BE PLACED IN LIFTS NOT GREATER THAN 8-INCHES. THE NATIVE SUBGRADE AND EACH LIFT OF FILL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DENSITY ESTABLISHED FOR THE MATERIAL.
- NATURAL GRADE AND PREPARED LIFTS SHALL BE PROOF ROLLED PRIOR TO ACCEPTANCE. SOFT OR YIELDING AREAS SHALL BE OVEREXCAVATED, BACKFILLED WITH SUITABLE FILL AND RECOMPACTED IN 8" LIFTS.
- PREPARED SOIL SHALL BE TREATED FOR WOOD DESTROYING ORGANISMS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (7TH EDITION).
- IN PLACE SOILS SHALL BE TESTED IN ACCORDANCE WITH THE PROJECT SOILS REPORT. IN THE ABSENCE OF A SOILS REPORT THE DENSITY TESTS SHALL BE PERFORMED AT A RATE OF ONE (1) TEST (ASTM D6938 NUCLEAR METHOD) FOR EACH 2000 SF OF PREPARED (OR FRACTION THEREOF) WITH A MINIMUM OF TWO TESTS PER LIFT PER PROJECT. ADDITIONALLY SOILS SHALL BE TESTED AT EACH ISOLATED FOOTING AND FOR EVERY 100 LINEAL FEET OF CONTINUOUS FOOTING.

SITE NOTES:

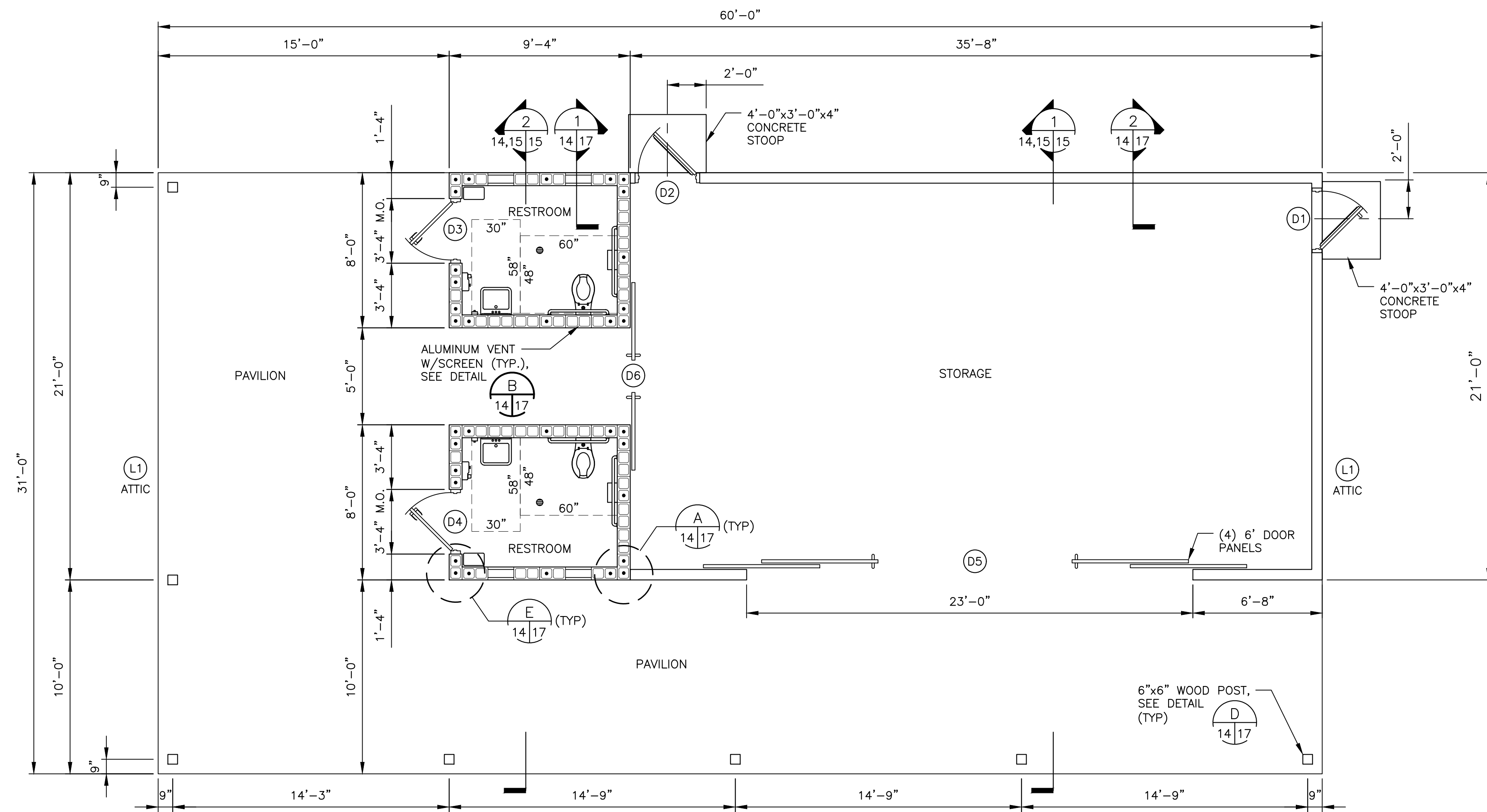
- PIPE LENGTHS ARE MEASURED ON THE HORIZONTAL PLANE CENTER TO CENTER OF INLET OR MANHOLE AND DO NOT INCLUDE MITERED END SECTIONS IF APPLICABLE. CONTRACTOR SHALL PROVIDE AND INSTALL THE LENGTH REQUIRED.
- ALL SIDEWALKS ARE CONSIDERED HANDICAP ACCESSIBLE ROUTES AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND SLOPES SHALL NOT EXCEED THE FOLLOWING:
 - DIRECTION OF TRAVEL (LENGTH OF SIDEWALK) = 5% MAX.
 - CROSS SLOPE = 2% MAX.
 - RAMP = 1:12 MAX.
- CONTRACTOR SHALL VERTICALLY ADJUST ALL VALVE BOXES, MANHOLE FRAMES & COVERS, JUNCTION BOXES, PULL BOXES, ETC., WHERE REQUIRED DUE TO GRADE CHANGES, SO THEY ARE LOCATED FLUSH WITH FINISHED GRADE/SURFACE.
- CONTRACTOR SHALL PROVIDE CONSTANT SLOPE BETWEEN ADJACENT SPOT ELEVATIONS.
- UNLESS OTHERWISE NOTED GRADES AT ALL PROPERTY LINES SHALL REMAIN UNCHANGED. CONTRACTOR SHALL PROVIDE A CONSTANT SLOPE BETWEEN EXISTING PROPERTY LINE GRADES AND ADJACENT INTERNAL SPOT ELEVATIONS.
- ALL SIDEWALKS FLUSH WITH PAVEMENT SHALL RECEIVE A CONTINUOUS 24" WIDE STRIP OF DETECTABLE WARNING TEXTURE.
- THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK EFFORT WITH THE OWNER PERSONNEL SO AS TO MINIMIZE DISRUPTION TO THEIR OPERATIONS.
- ALL PAVING WITHIN COUNTY RIGHT OF WAY SHALL BE IN ACCORDANCE WITH NASSAU COUNTY DESIGN STANDARDS.
- SEE DETAILS ON SH11 FOR TYPICAL TRENCH REQUIREMENTS.
- SIDEWALKS SHALL CONFORM TO DETAIL ON SH19.



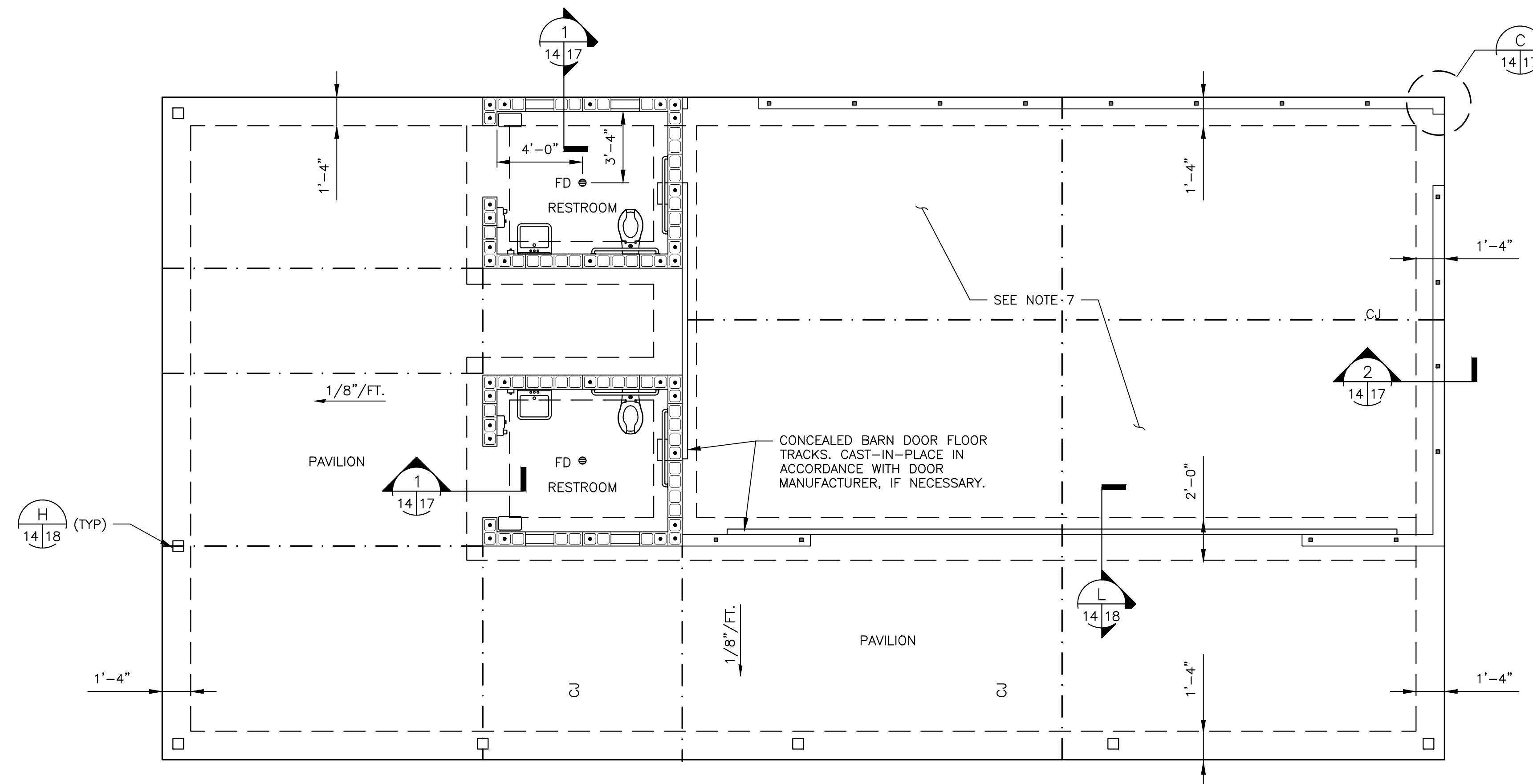
DEPOT PARK RESTROOM & PAVILION SITE PLAN

1" = 10'

<p>DSH DESC</p> <p>DRWN PROJ</p> <p>MAL MGR</p> <p>TPN</p> <p>DATE 10/21/21</p> <p>1 INCH</p>	<p>NO</p> <p>DATE</p> <p>BY</p>	<p>REVISION DESCRIPTION</p>
<p>MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS</p> <p>580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0040</p>		
<p>TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Depot Park Restroom & Pavilion Site Plan Nassau County, Florida</p>		
<p>JOB NO. 0302-31-1 SHEET NO. 13</p>		



1
14/14
PAVILION & RESTROOM BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"



2
14/14
PAVILION & RESTROOM BUILDING FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

NO.	WIDTH	HEIGHT	THICK	MATERIAL		REMARKS
				DOOR	FRAME	
D1	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)
D2	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)
D3	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)
D4	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)
D5	23'-0"	7'-0"	-	WD	ST	4-PANEL BARN DOOR
D6	5'-0"	7'-0"	-	WD	ST	2-PANEL BARN DOOR
L1	2'-0"	4'-0"	-	ALUM	ALUM	FIXED VANE LOUVER

NOTES:

- CONTRACTOR SHALL VERIFY ALL DOOR & LOUVER DIMENSIONS.
- FLAT PANEL WITH 24" SQ. LOUVER VENT PANEL, 16 GAUGE, 2 LB POLYURETHANE CORE, SMOOTH FINISH, OWNER SELECTS COLOR FOR DOOR & FRAME. DOORS & FRAMES SHALL BE PRIMED AND HAVE AN APPLICATION OF 2 COATS OF ENAMEL PAINT. DEADBOLT LOCK W/EXTERIOR KEYPED, AUTOMATIC DOOR CLOSER W/12 GA. REINFORCEMENT PLATE, DOOR STOP, LOCKSET W/ADA LEVER HANDLES/INTERIOR PUSHBUTTON/EXTERIOR KEYPED/AUTO UNLOCK WITH INTERIOR HANDLE OPERATION AND DOOR CLOSING, INTERIOR KICK PLATES. (SEE REPUBLIC DOORS DL SERIES OR EQUAL).
- ALL HARDWARE AND LOCKSETS SHALL BE STAINLESS WITH SATIN FINISH.
- ALL DOORS SHALL BE KEYPED FOR SINGLE KEY TO OPERATE ALL LOCKS.

FOUNDATION NOTES

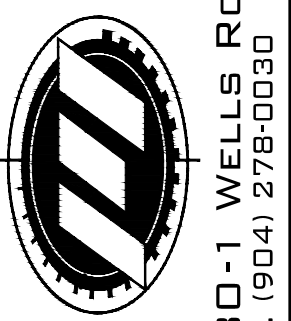
- UNLESS OTHERWISE NOTED CONSTRUCT 4" CONCRETE (4,000 PSI, TYPE II) SLAB REINFORCED WITH 6x6, W2.0xW2.0 WWF CENTERED THROUGHOUT.
- PRIMARY VERTICAL REINFORCEMENT IN THE EXTERIOR CMU WALLS SHALL BE 24" O.C. TYPICAL.
- PRIMARY VERTICAL REINFORCEMENT IN INTERIOR CMU WALLS SHALL BE 96" O.C. TYPICAL.
- FLOOR SLAB AND ALL FLOOR PENETRATING EQUIPMENT SLABS SHALL BE UNDERLAIN BY A CONTINUOUS 6 MIL VISQUENE VAPOR BARRIER.
- PREPARED BUILDING PAD SHALL BE TERMITE TREATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
- INTERMEDIATE VERTICAL DOWELS ABOVE & BELOW OPENINGS ARE REQUIRED.
- STORAGE AREA CONCRETE SHALL RECEIVE INTERIOR CONCRETE STAIN AND POLYURETHANE FINISH. REFER TO SPECIFICATIONS.

LEGEND

- #5 VERTICAL DOWEL CENTERED IN 4,000 PSI CONC. FILLED CELL
- ◻ 5/8" THREADED ROD. SEE TYPICAL WALL SECTION.
- CJ SAW CUT JOINT
- M.O. MASONRY OPENING

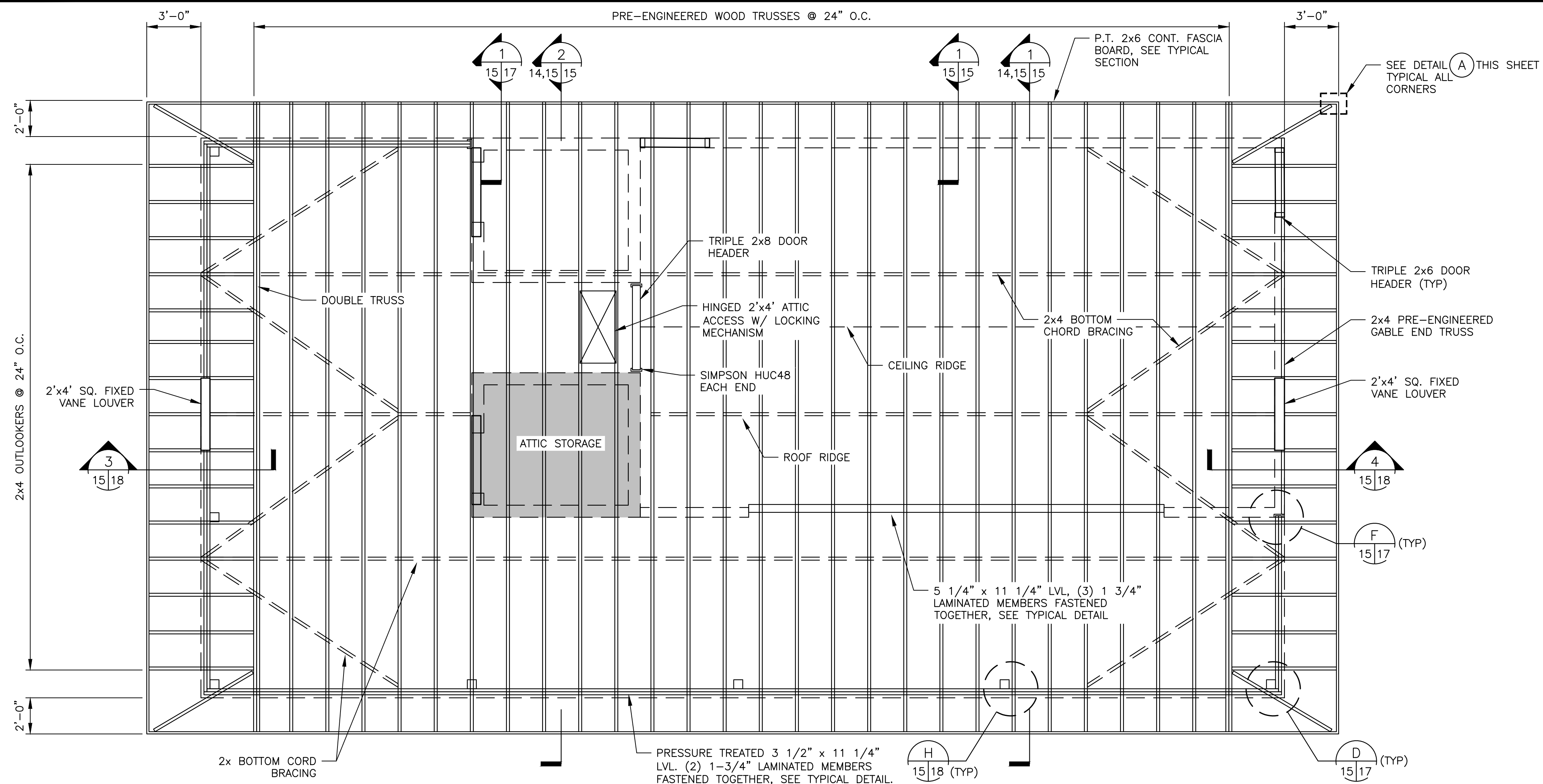
DESC DSH MAL TPN
DRWN PROJ MGR
DATE 10/21/21
1 INCH

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TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Building - Foundation & Floor Plans
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO.

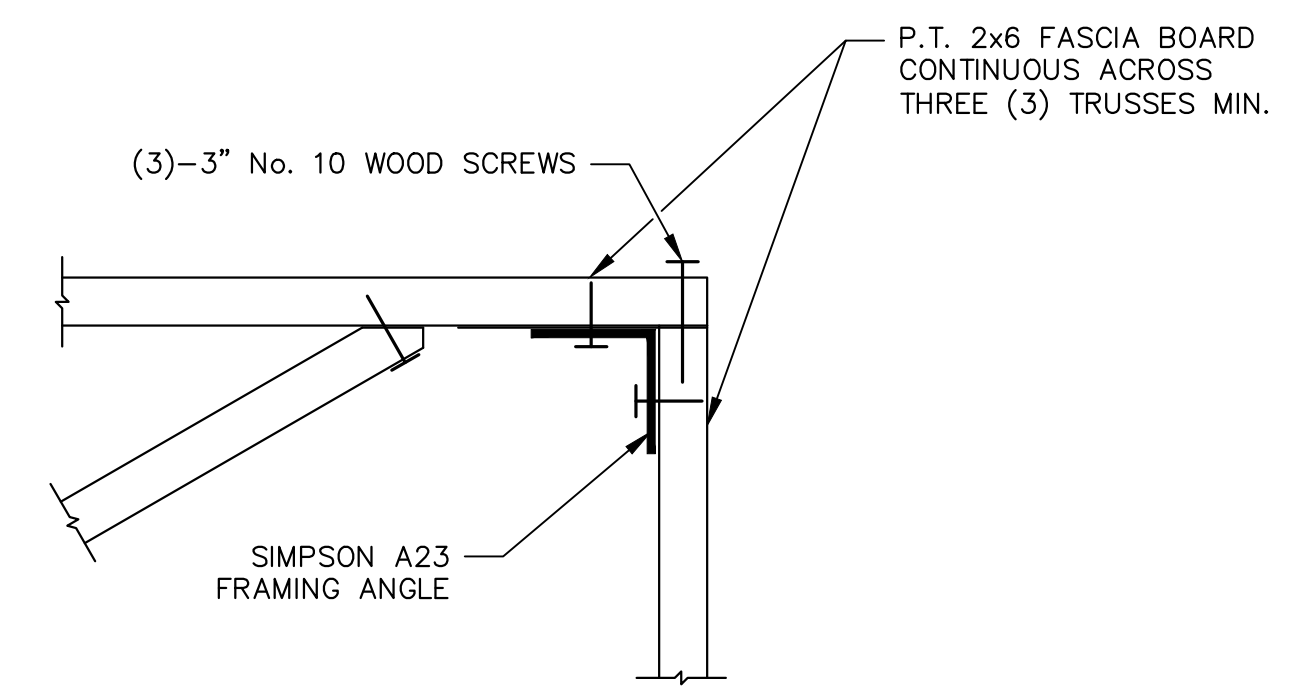


ROOF TRUSS DESIGN LOADS
 SEE SHEET FOR WINDSPEED CRITERIA
 TOP CHORD LIVE - 20 psf
 BOTTOM CHORD LIVE - 10 psf (NON-CONCURRENT)
 TOP CHORD DEAD - 10 psf
 BOTTOM CHORD DEAD - 10 psf
TOTAL 40 psf

ATTIC STORAGE - 20 psf (WHERE NOTED)

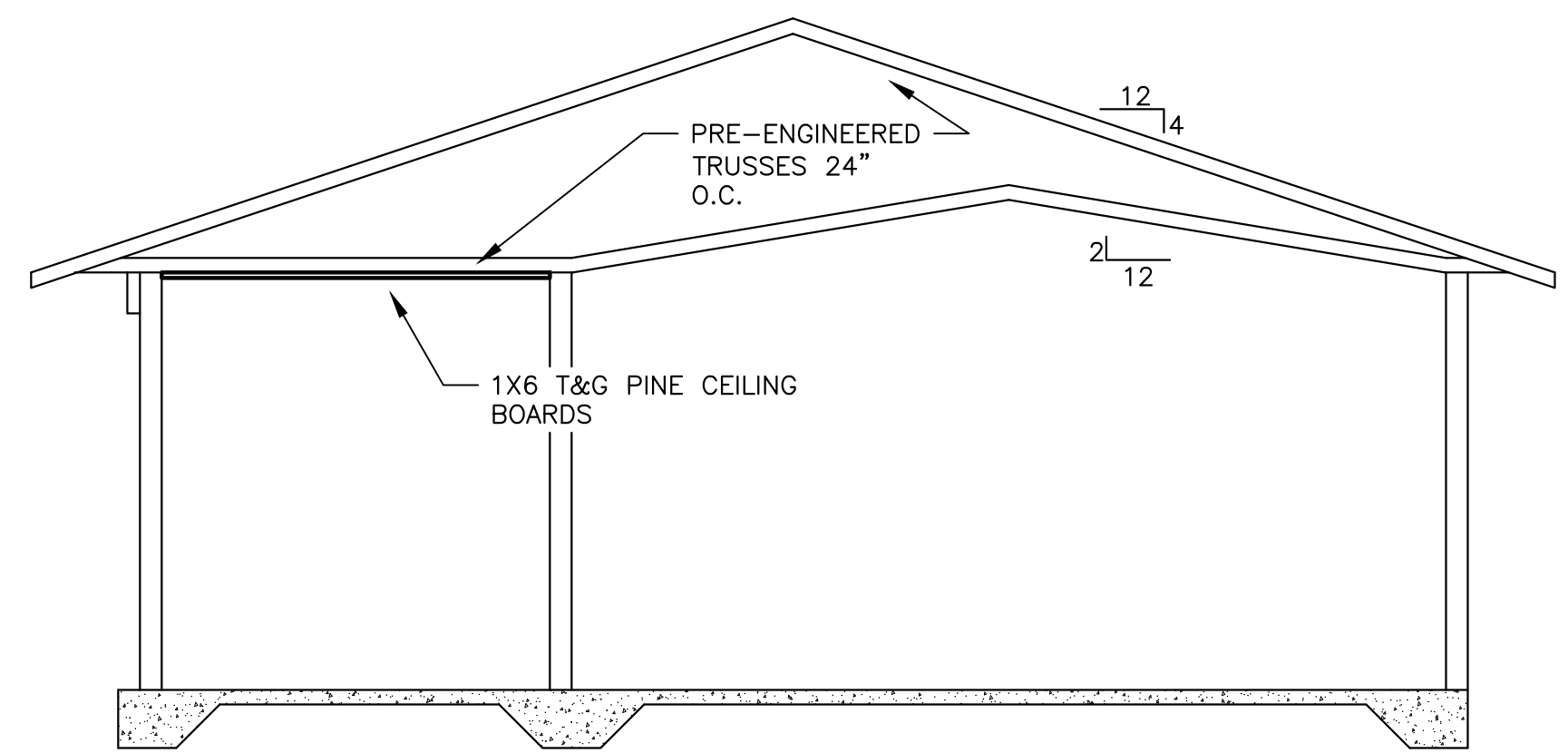
ROOF FRAMING NOTES

- PERMANENT BRACING SHOWN ON THIS DRAWING SHALL BE CONSIDERED SUPPLEMENTARY TO THAT REQUIRED BY THE TRUSS DESIGNER. IN THE EVENT OF DUPLICATE BRACING REQUIREMENTS ONLY ONE SET NEED BE INSTALLED.
- ALL BRACING SHALL BE SECURED WITH (2) 16d NAILS AT EACH TRUSS OR CONNECTION POINT. FINAL BRACING LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE TRUSS PANEL POINTS.
- ALL TEMPORARY BRACING SHALL BE AS REQUIRED BY THE TRUSS DESIGNER.
- ALL WEB PLANE BRACING SHALL BE AS REQUIRED BY THE TRUSS DESIGNER.
- TRUSS TIEDOWNS:
 A. SINGLE PLY (NON-GIRDER): SIMPSON H10-A OR EQUAL.
 B. MULTI-PLY OR GIRDER: SIMPSON MGT OR EQUAL.
 ABOVE TIEDOWNS ARE FOR BIDDING PURPOSES ONLY. FINAL TIEDOWN SELECTION WILL BE RELEASED WITH THE APPROVED TRUSS SHOP DRAWINGS. FINAL TIEDOWNS WILL BE SIZED TO MATCH TRUSS DESIGNERS UPLIFT REQUIREMENTS. UPGRADES TO THE TRUSS ANCHORS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE AND INSTALL RIDGE VENTS AS SHOWN ON BUILDING ELEVATIONS. VENTS SHALL BE SUPPLIED BY ROOFING SUPPLIER.
- REFER TO ROOF DECK DETAIL FOR SHEATHING AND NAILING REQUIREMENTS.

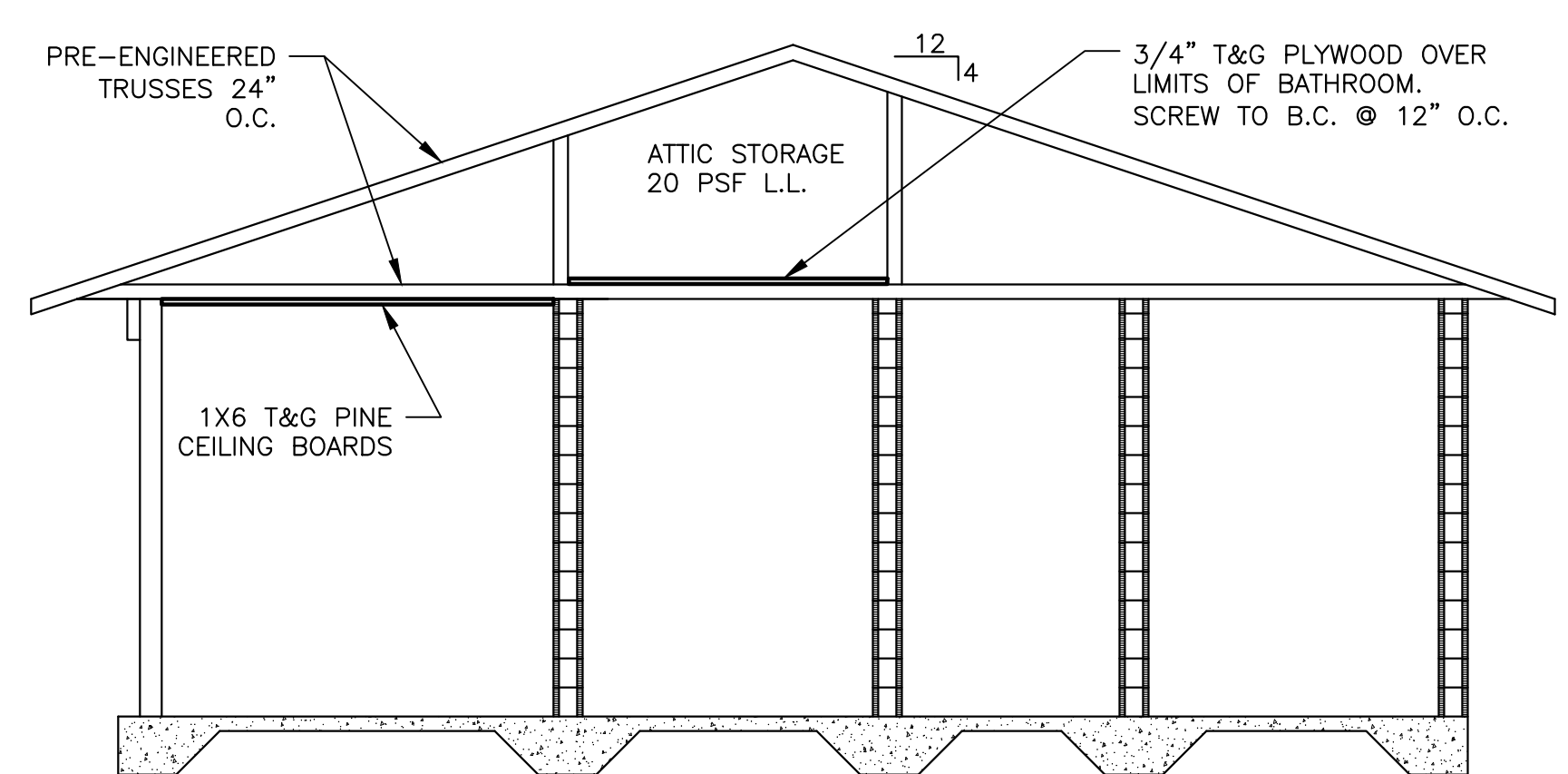


(A) TYPICAL STRUCTURAL FASCIA DETAIL
 NTS

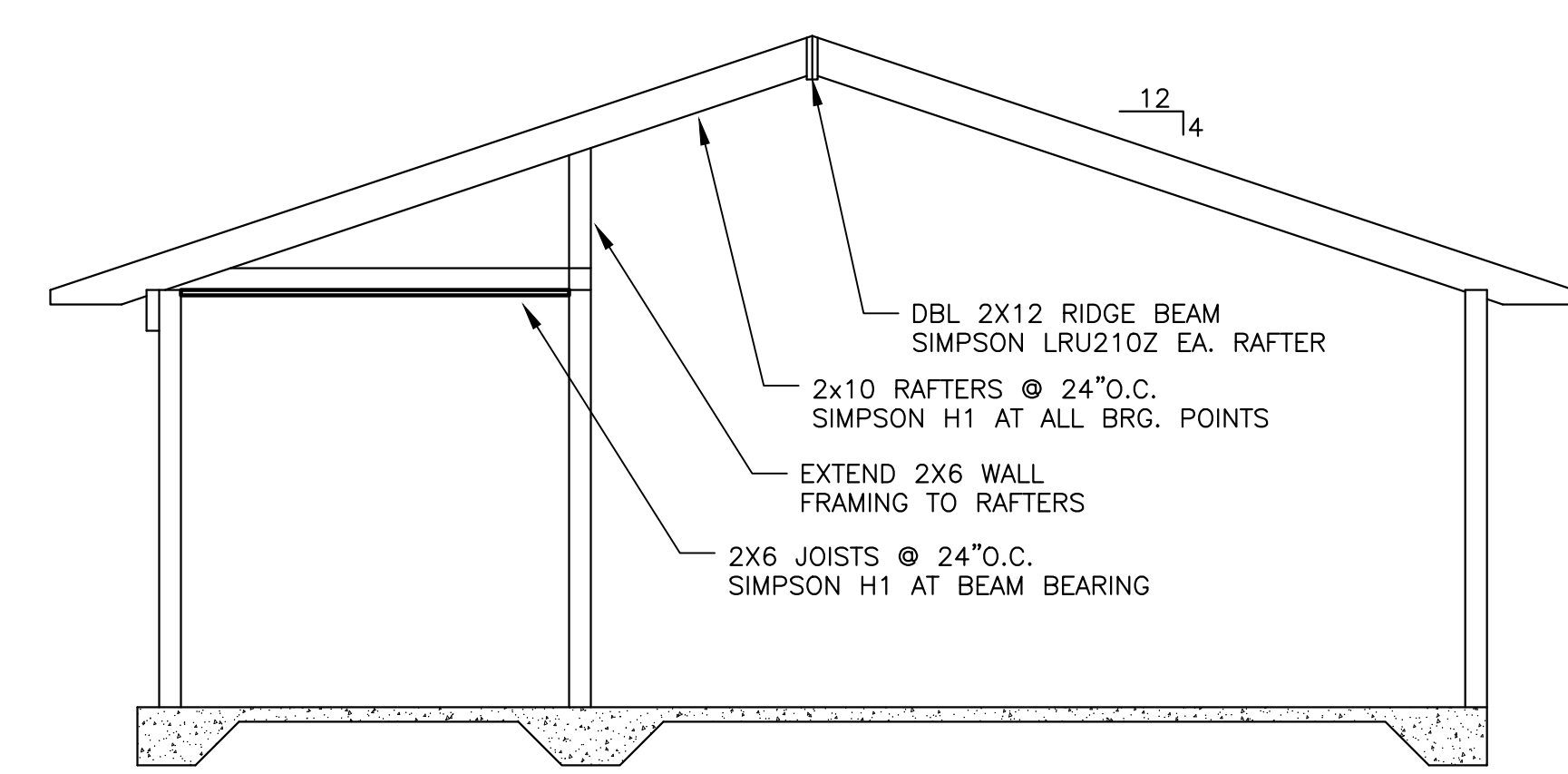
PAVILION & RESTROOM BUILDING ROOF FRAMING PLAN (BASE BID)
 SCALE: 1/4" = 1'-0"
 1. BASE BID SHALL BE PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES.
 2. ADDITIVE ALTERNATE No.1 SHALL BE CONVENTIONALLY FRAMED ROOF.



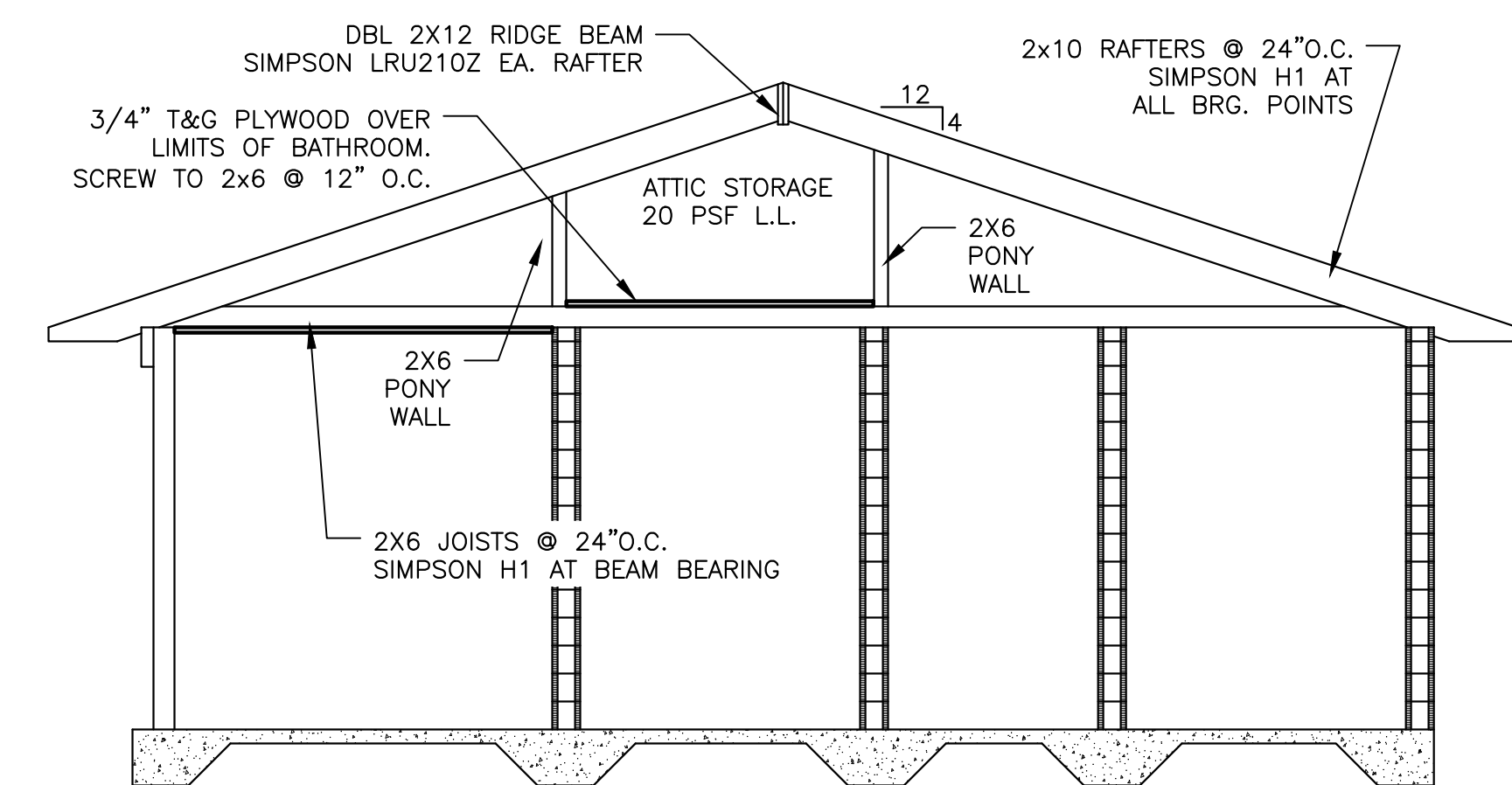
1 BUILDING SECTION
 SCALE: 1/4" = 1'-0"



2 BUILDING SECTION
 SCALE: 1/4" = 1'-0"



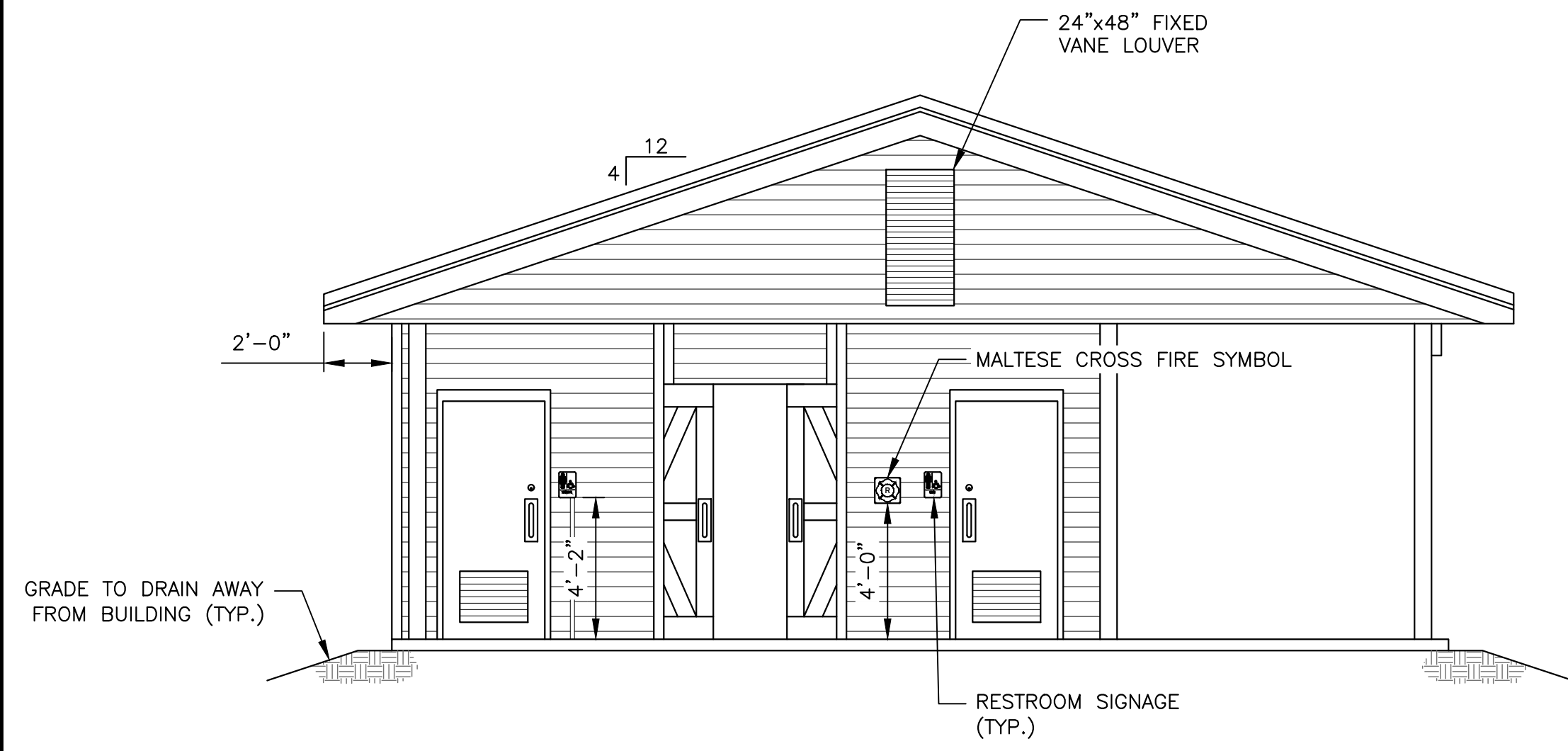
1 BUILDING SECTION (ADD. ALT. No.1)
 SCALE: 1/4" = 1'-0"



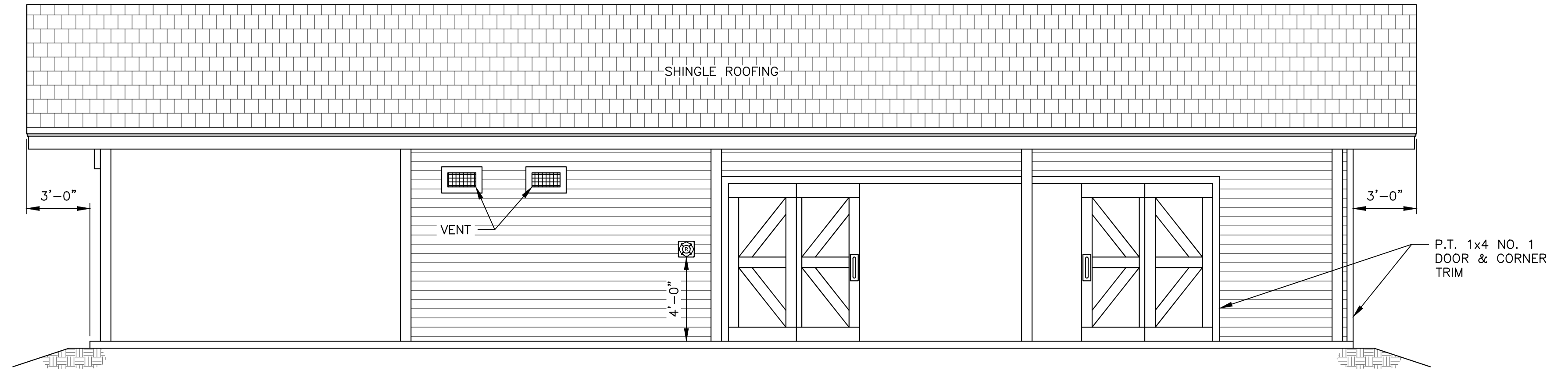
2 BUILDING SECTION (ADD. ALT. No.1)
 SCALE: 1/4" = 1'-0"

DESIGNER	DSH	DATE	10/21/21
DRAWN	MAL	SCALE	1" = 1'-0"
PROJECT MGR.	TPN		
MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS			
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0040			
TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Building - Roof Framing Plan & Details Nassau County, Florida			
JOB NO.	0302-31-1		
SHEET NO.	15		
REVISION DESCRIPTION		NO	DATE

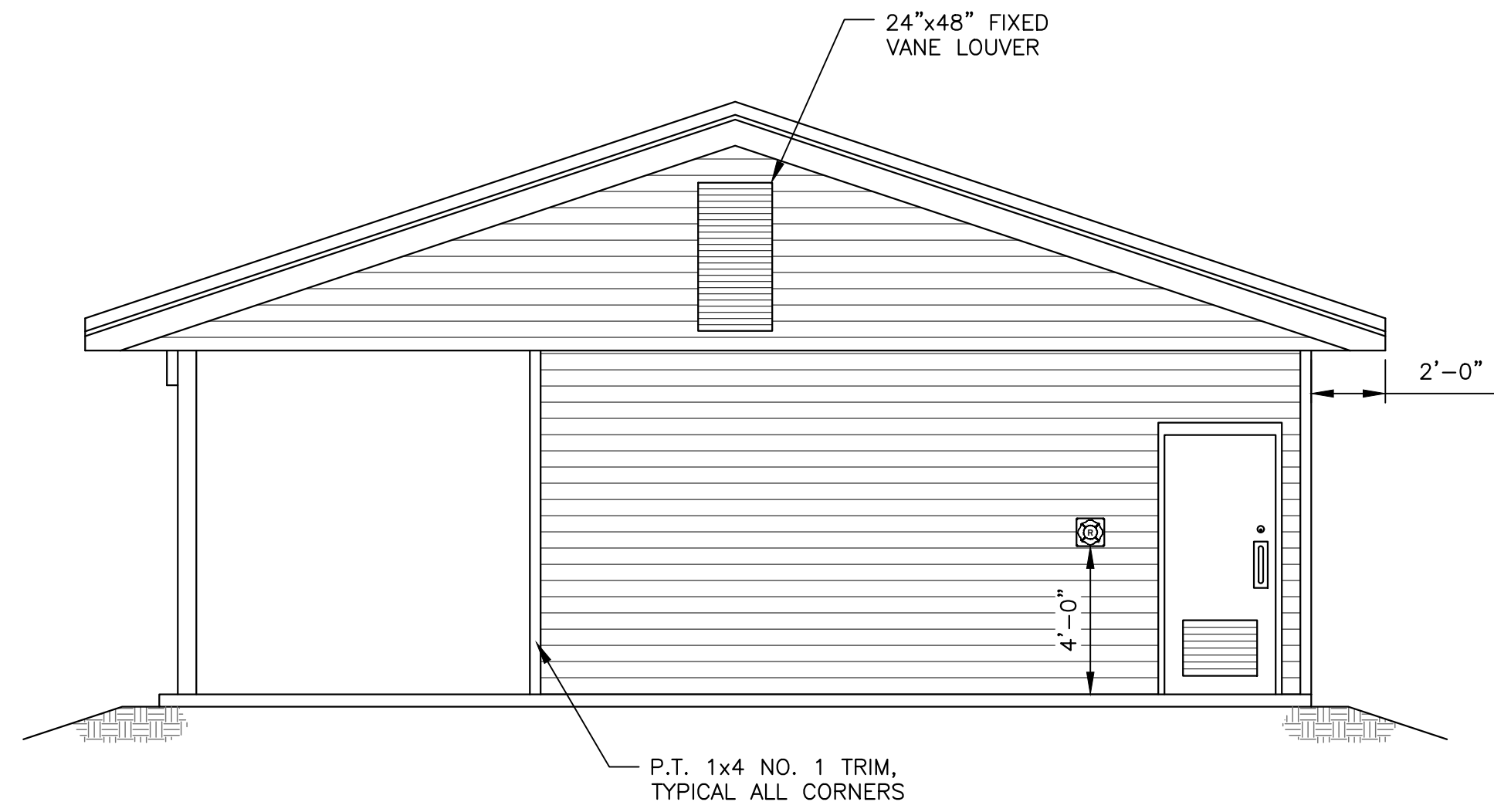
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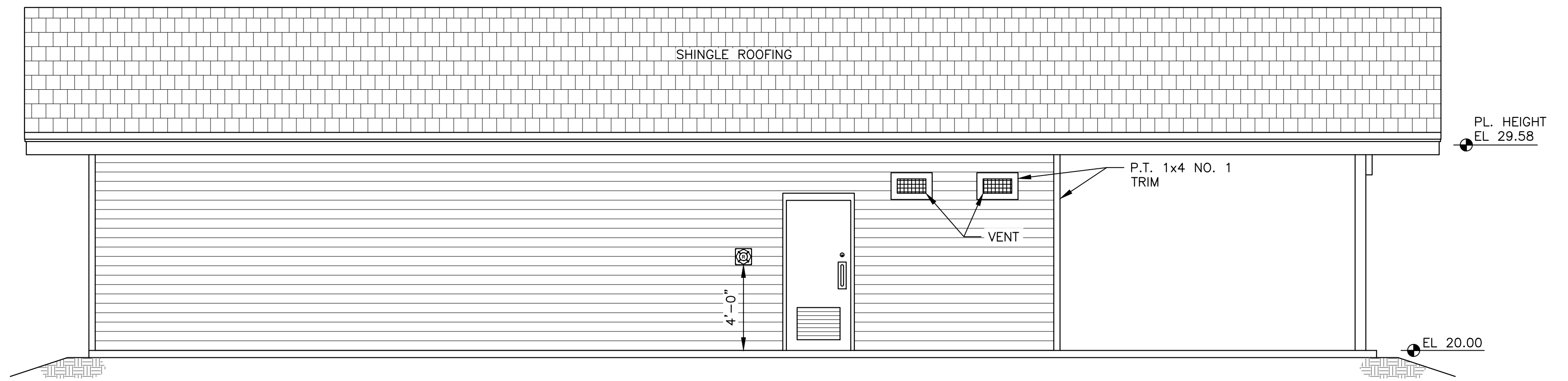
SOUTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



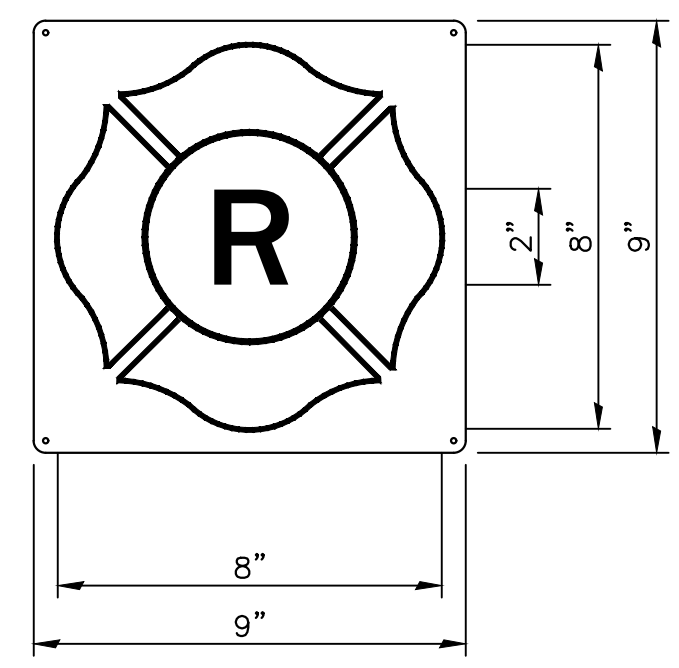
NORTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



NORTHWEST ELEVATION
SCALE: 1/4" = 1'-0"



SOUTHWEST ELEVATION
SCALE: 1/4" = 1'-0"

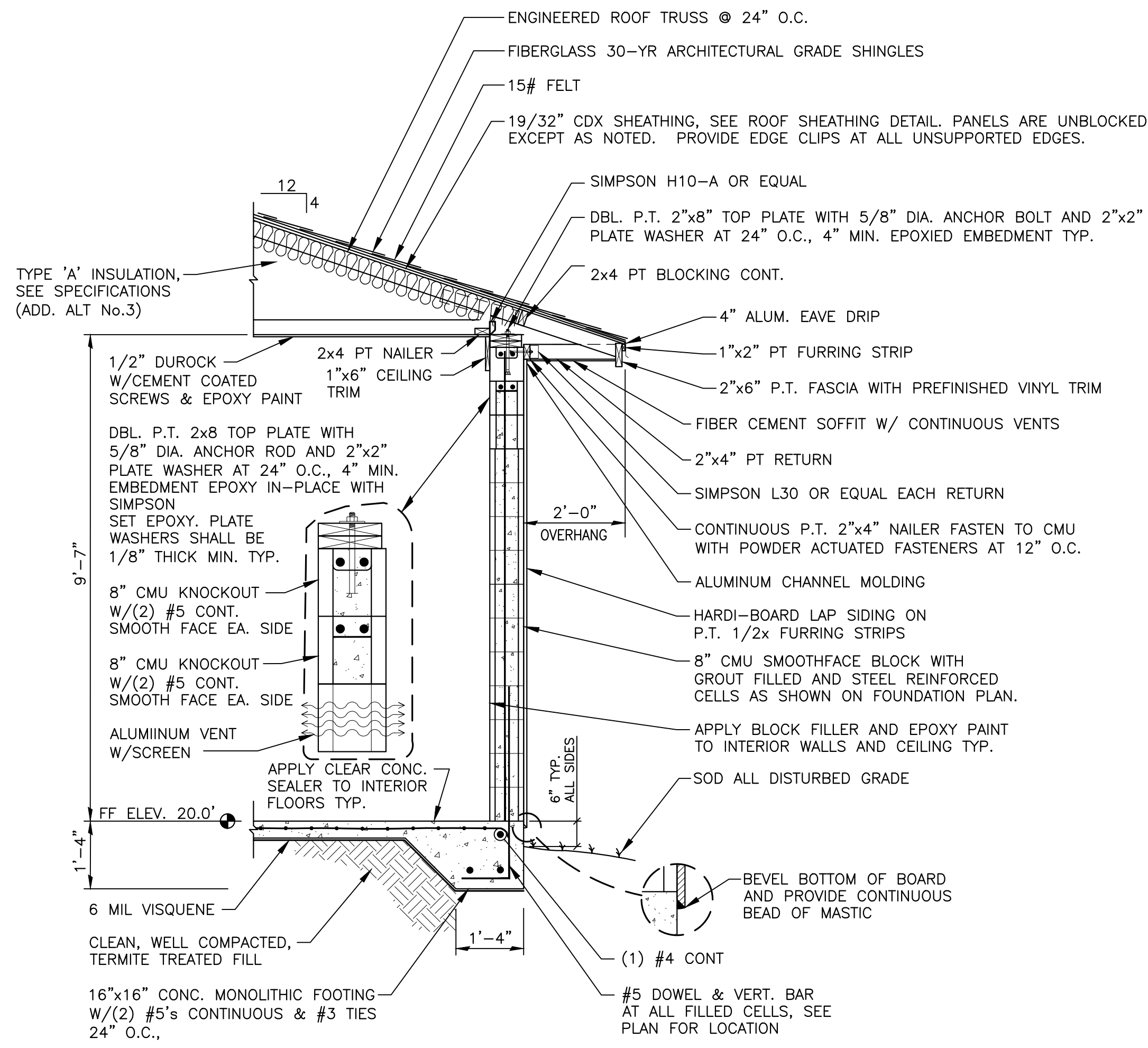


MALTESE CROSS SYMBOL
N.T.S.

NOTES:

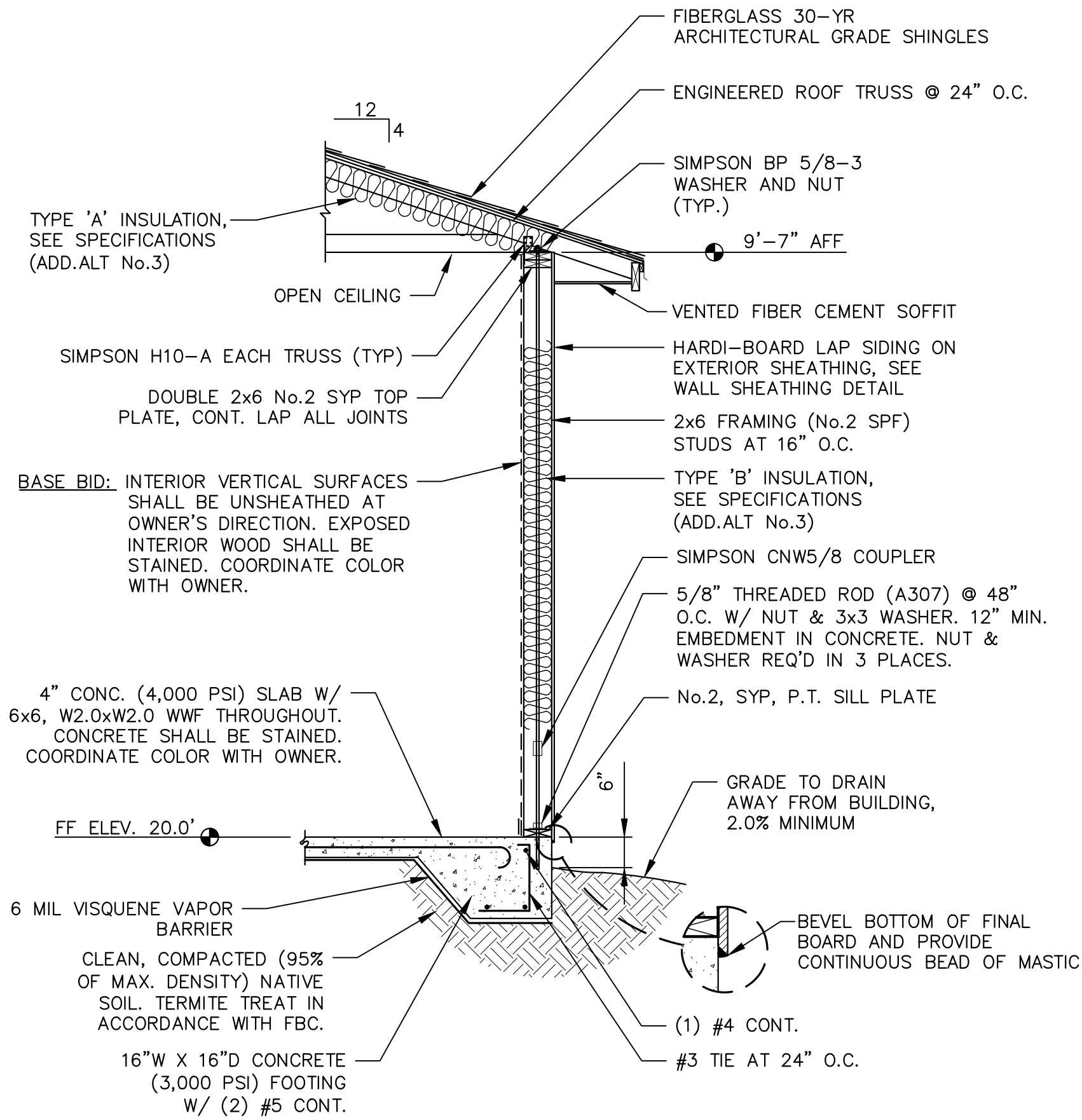
1. RED LINES AND LETTERING ON A WHITE FIELD
2. SIGN SHALL BE PVC AND PERMANENTLY AFFIXED TO THE STRUCTURE:
 - a. 24" TO THE LEFT OF EACH ENTRY.
 - b. 48" AFF.

DSH	MAL	TPN	10/21/21	NO	DATE	BY	REVISION DESCRIPTION
DESC	DRWN	PROJ	DATE	NO	DATE	BY	REVISION DESCRIPTION
							
MITTALUER & ASSOCIATES, INC. CONSULTING ENGINEERS 580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0840 FLORIDA RY. NO. 6569							
TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Building - Elevations Nassau County, Florida							
JOB NO. 0302-31-1							
SHEET NO. 16							

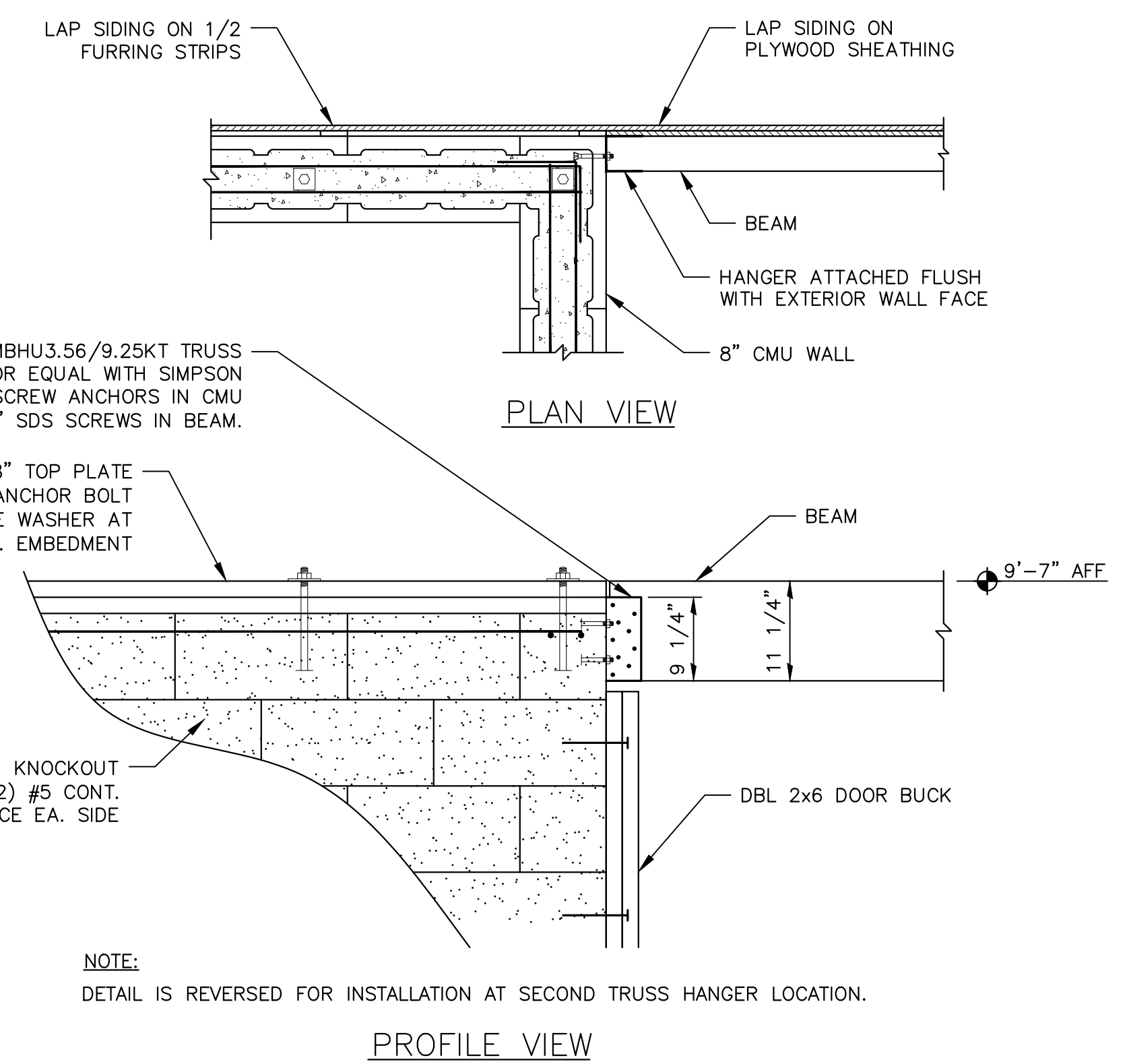


NOTE: TRUSS ANCHORS SHOWN ARE FOR BIDDING PURPOSES ONLY. ENGINEER RESERVES THE RIGHT TO UPGRADE ANY TRUSS ANCHORS TO ACHIEVE THE UPLIFT REQUIREMENTS OF THE TRUSS DESIGNER. UPGRADES OF THE TRUSS ANCHORS IF REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

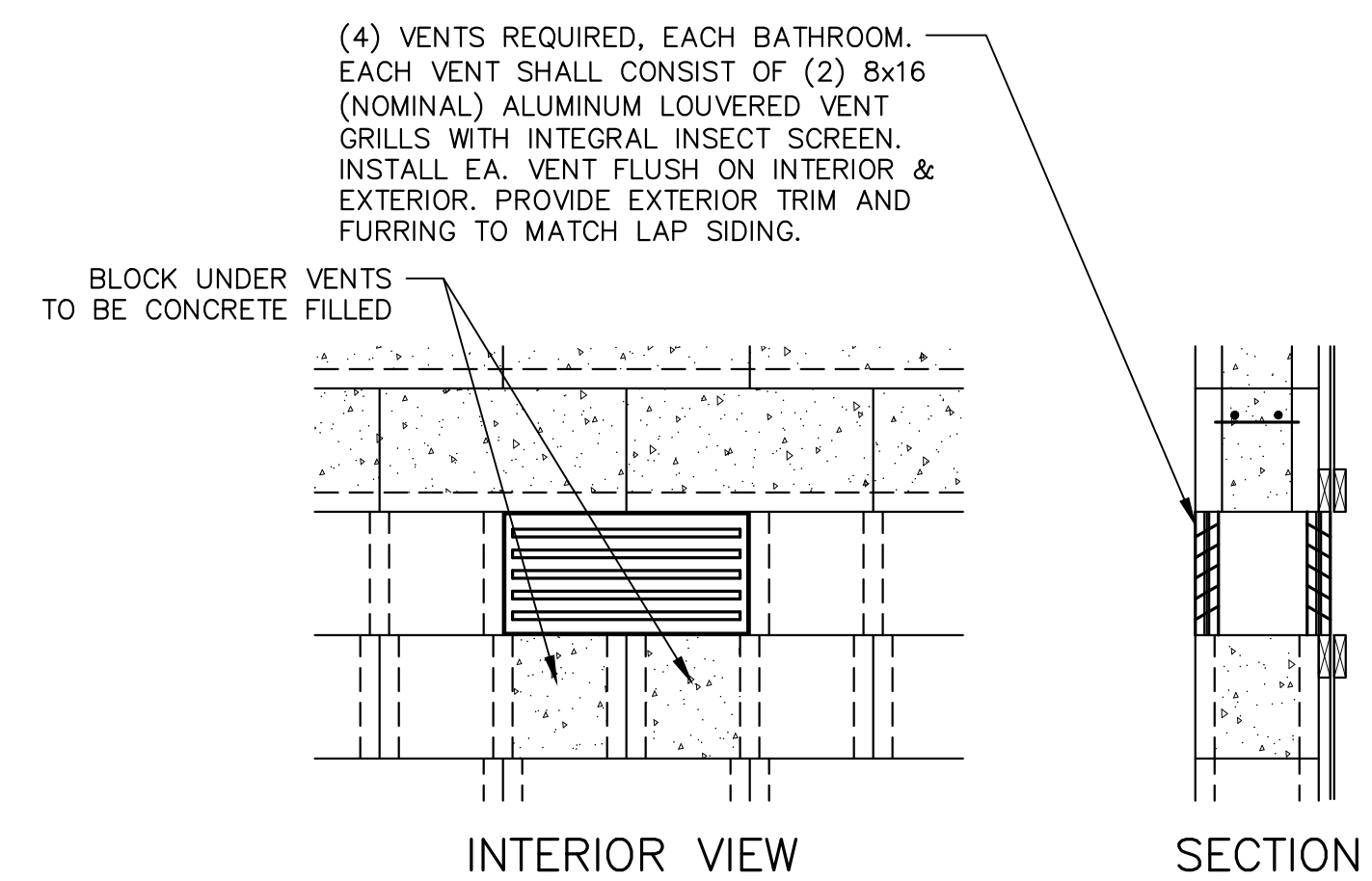
1 TYPICAL CMU WALL SECTION
 14/17 1/2" = 1'-0"



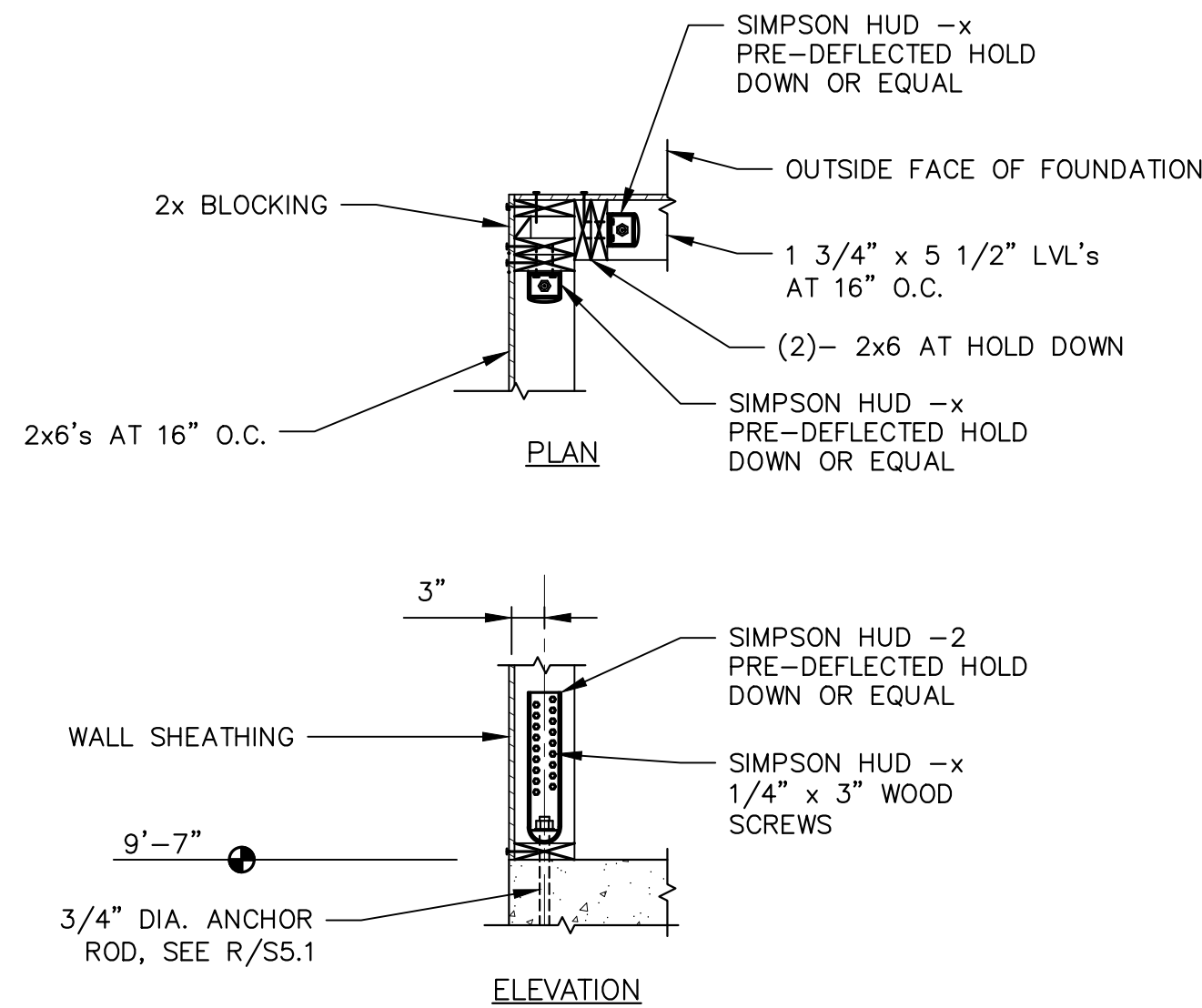
2 TYPICAL WOOD WALL SECTION
 14/17 1/2" = 1'-0"



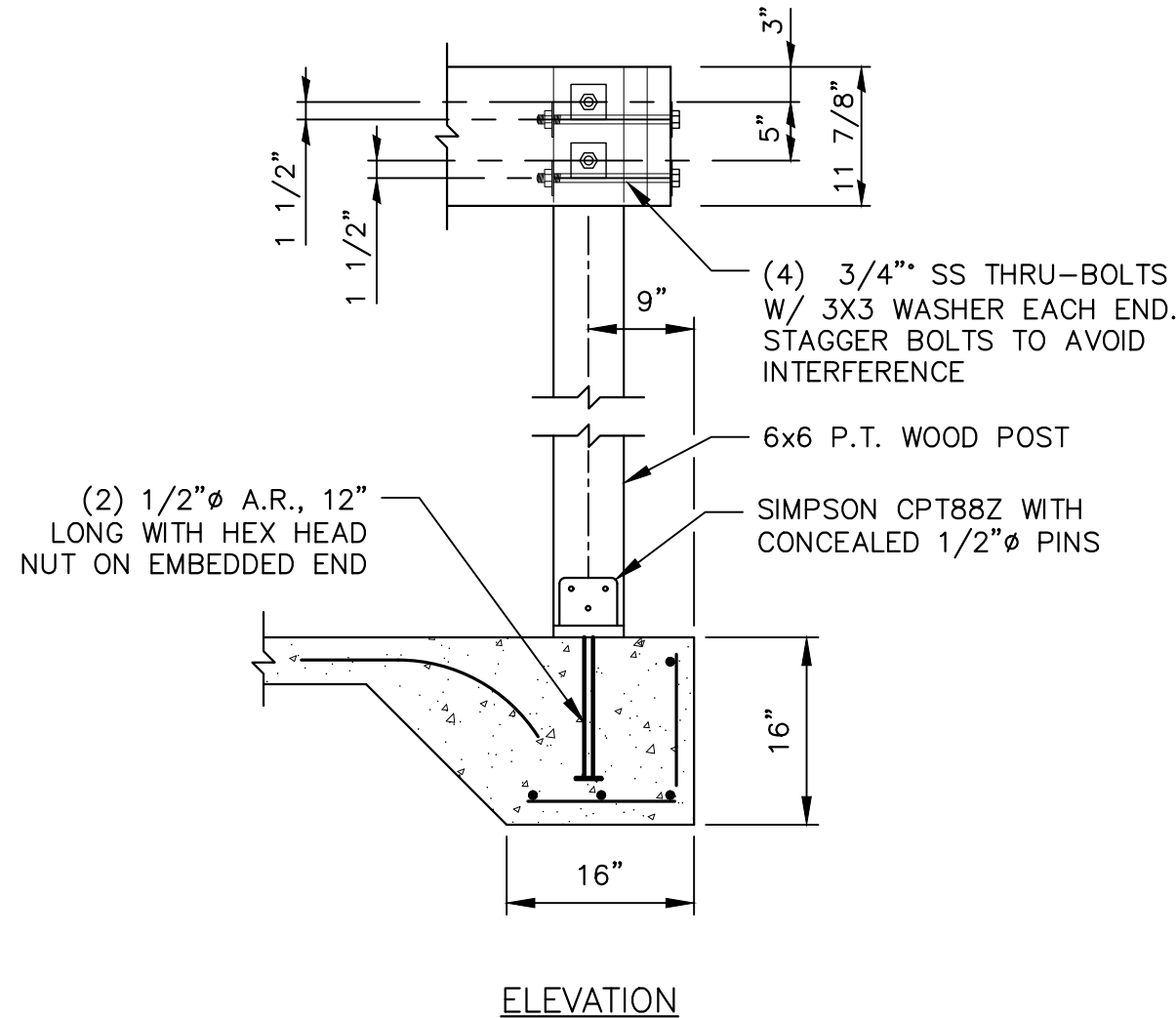
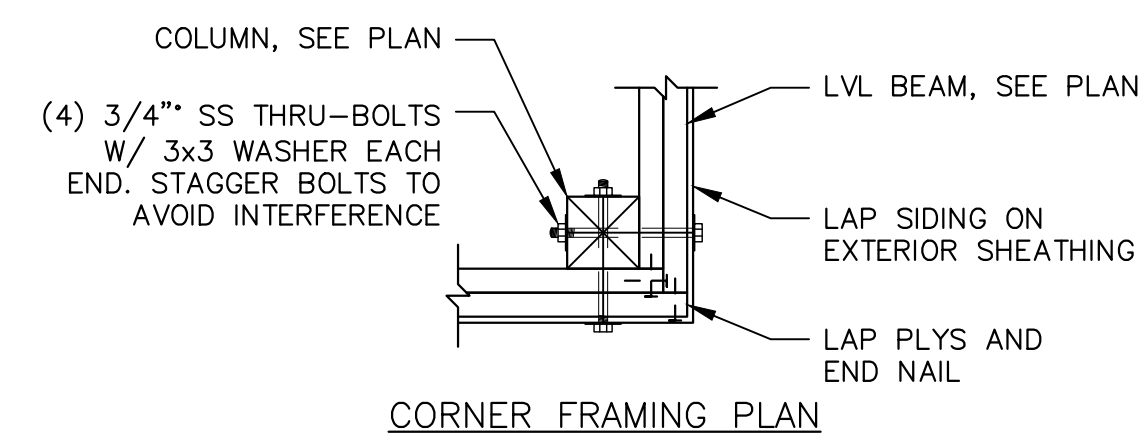
A BEAM HANGER DETAIL
 15/17 NTS



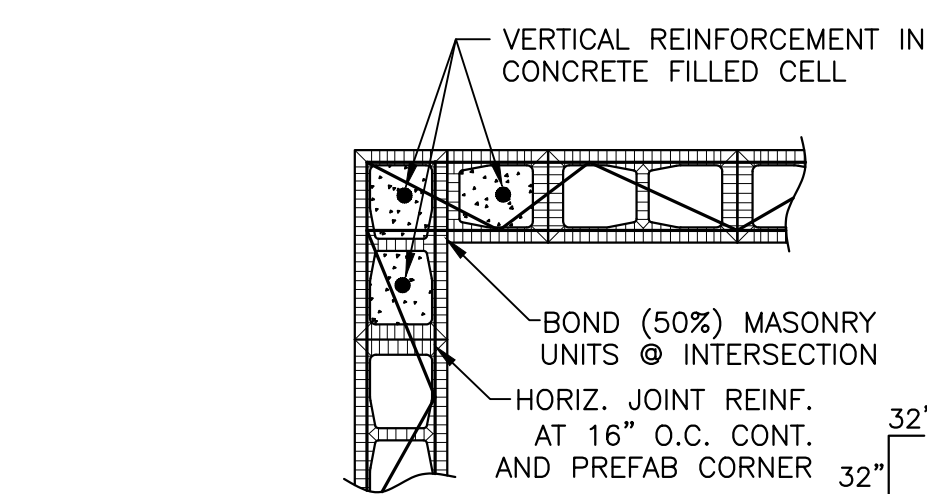
B THROUGH WALL VENTS
 14/17 NTS



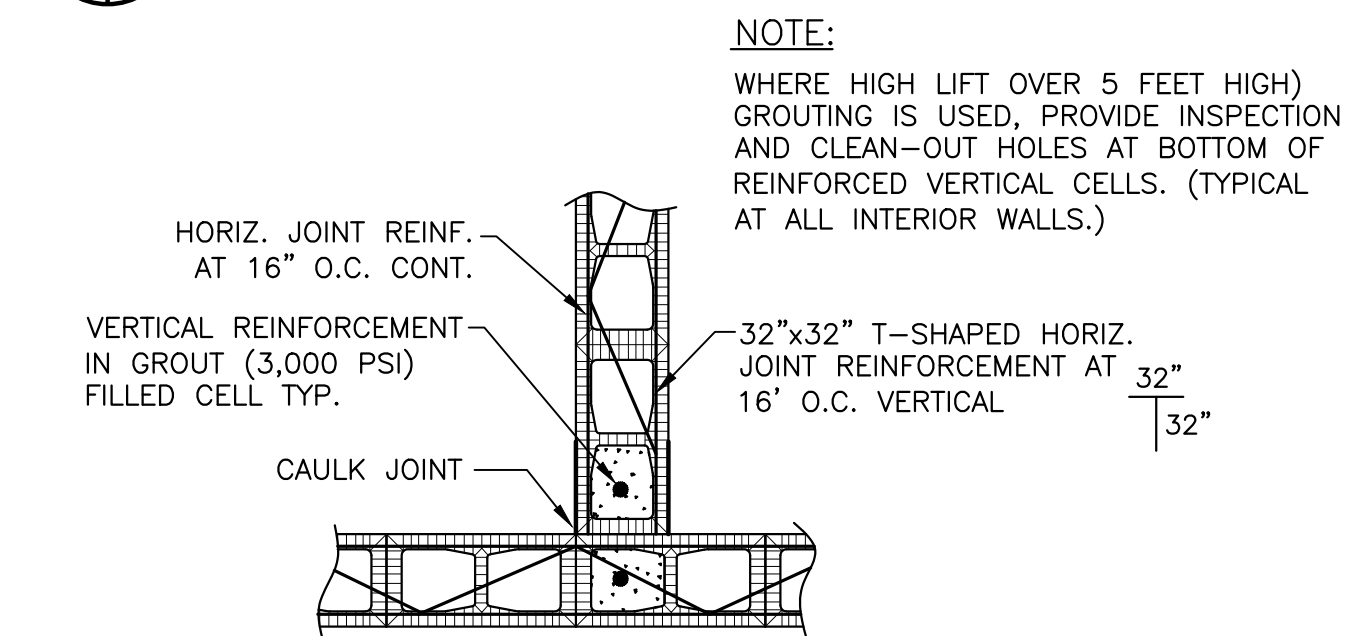
C CORNER DETAIL
 14/17 3/4" = 1'-0"



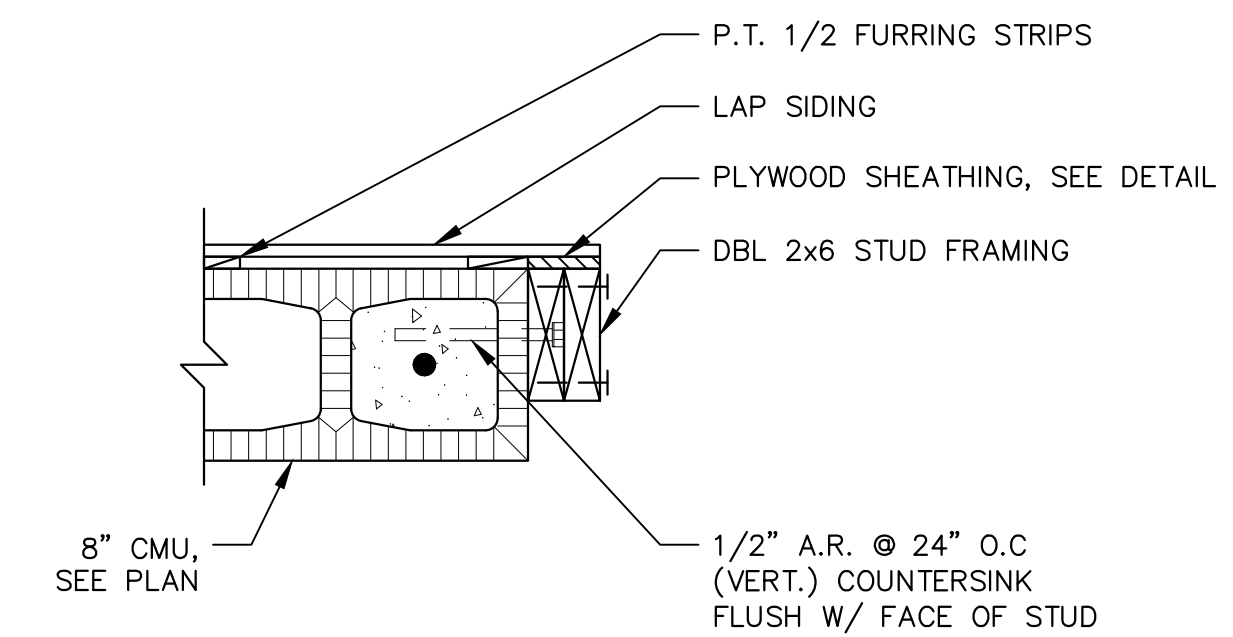
D POST CONNECTIONS
 14/17 3/4" = 1'-0"



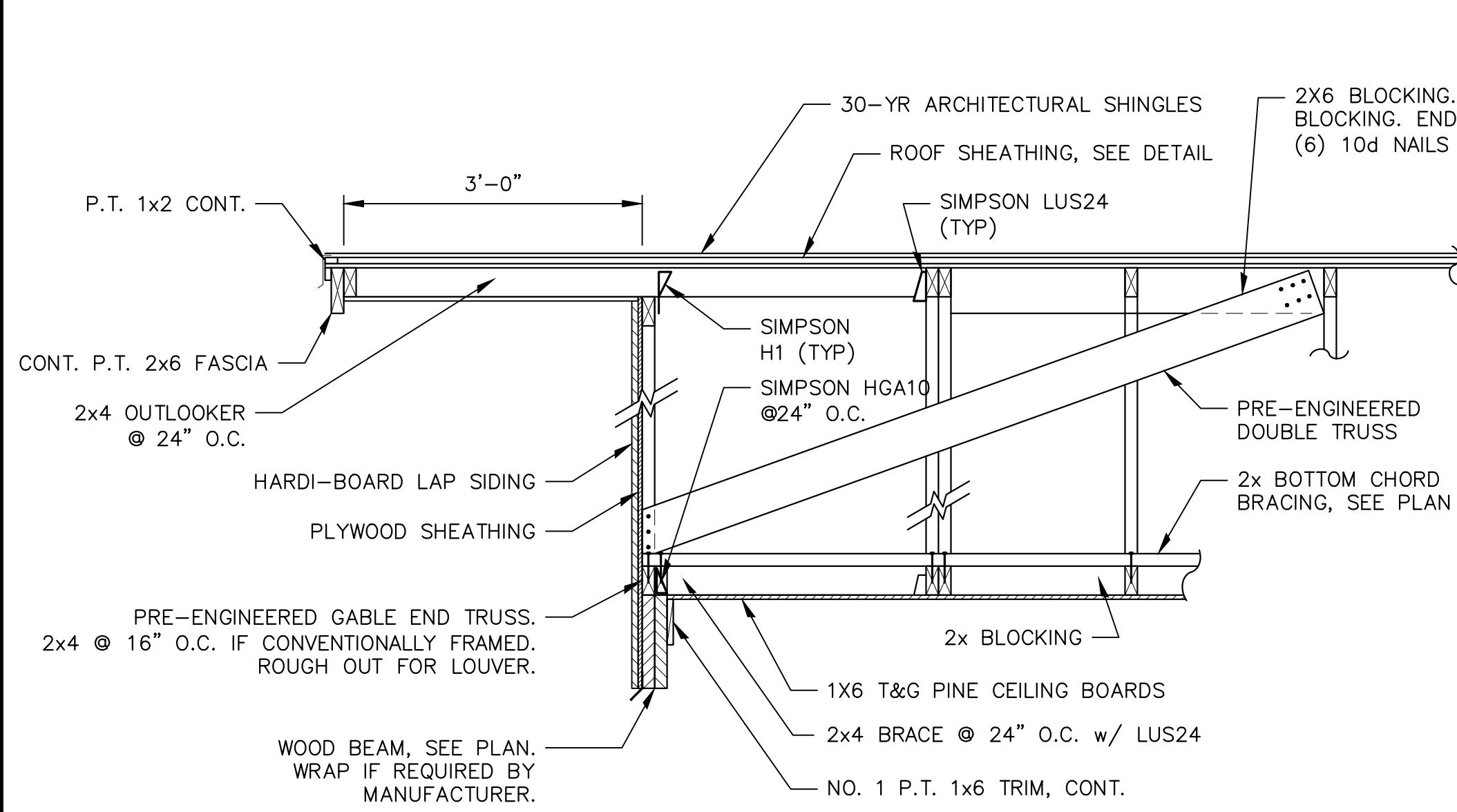
E TYPICAL REINFORCING AT EXTERIOR WALL CORNER
 15/17 N.T.S.



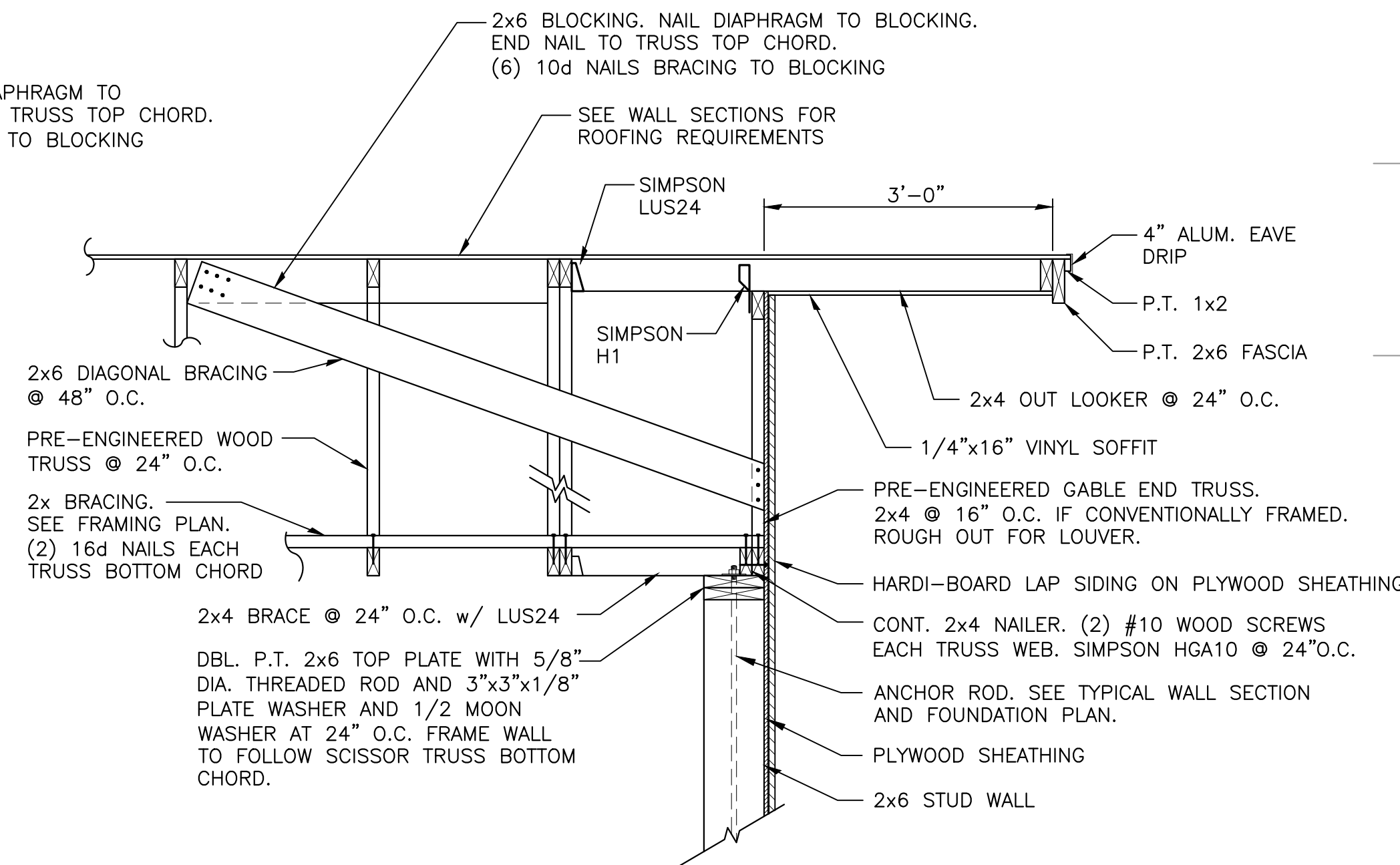
? TYPICAL WHERE INTERIOR WALL ABUTS EXTERIOR WALL
 15/17 N.T.S.
 LEGEND
 • DENOTES #5 BAR IN GROUT (3,000 PSI) FILLED CELL.



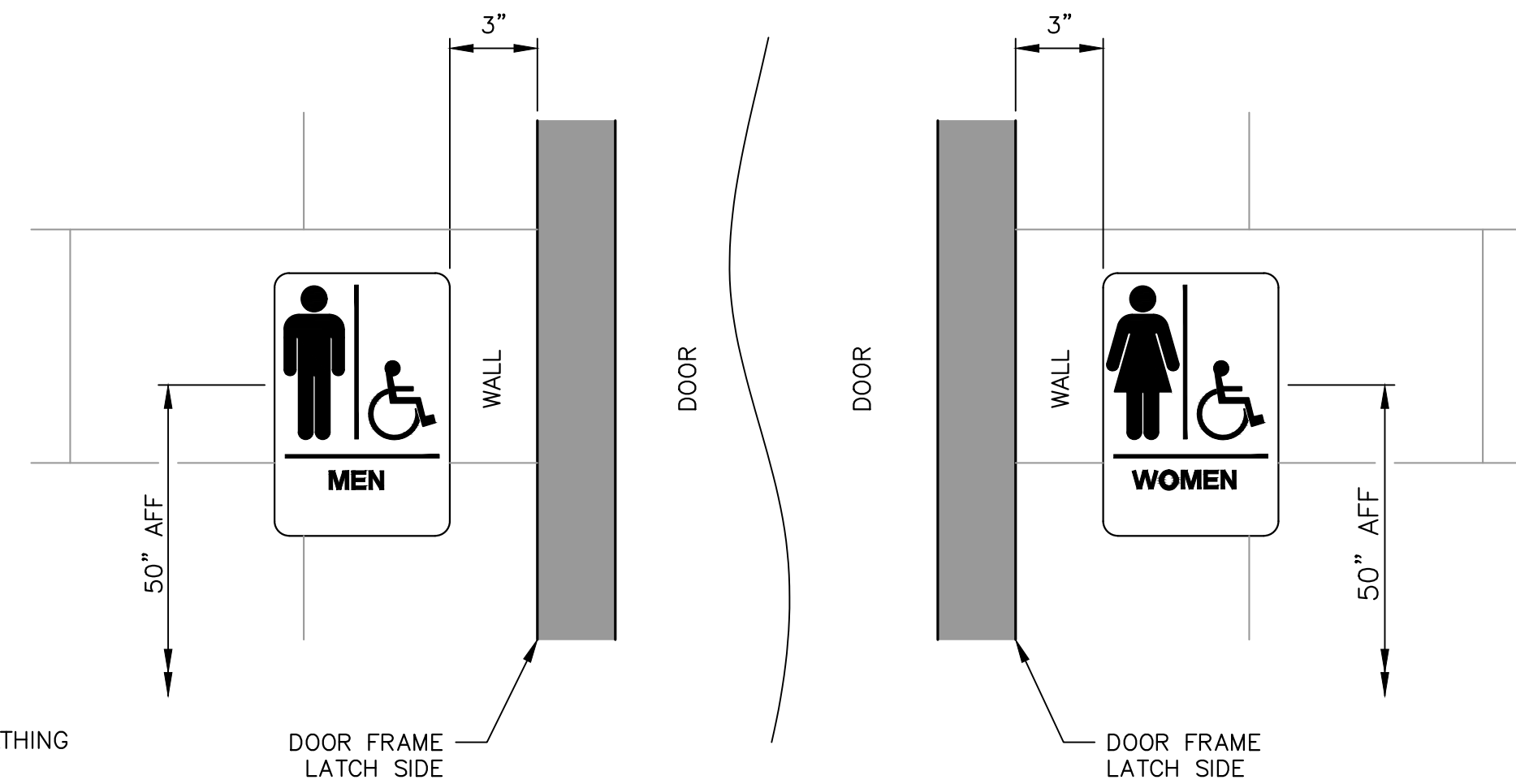
F CMU TO WOOD FRAMING DETAIL
 14/17 1 1/2" = 1'-0"



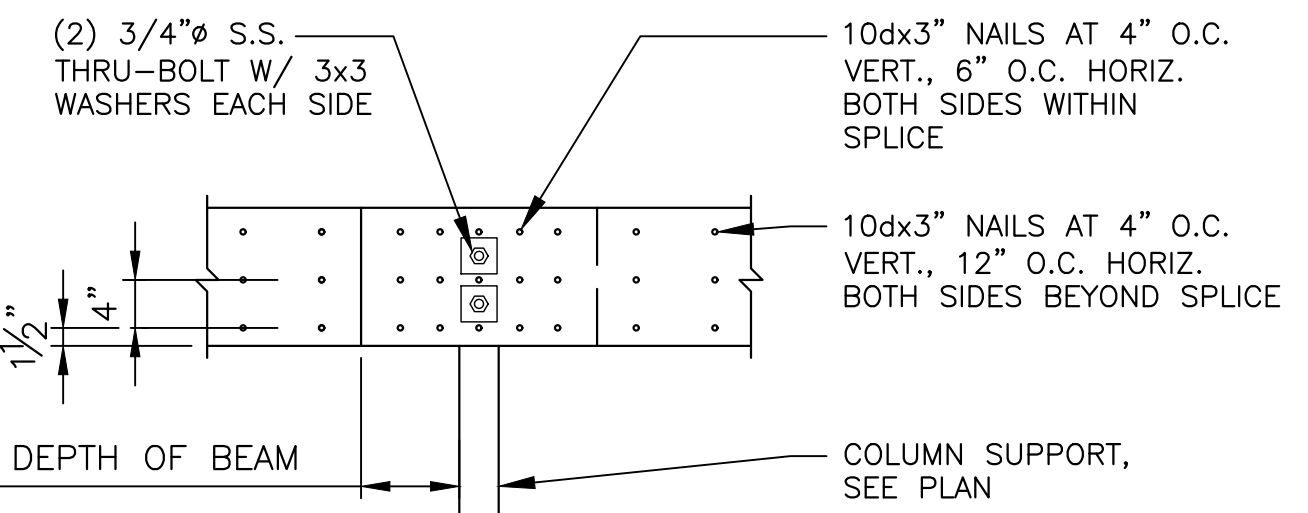
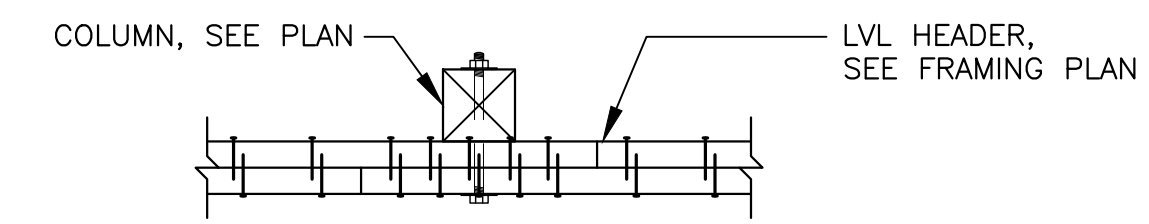
3 GABLE END SECTION
15/18
3/4" = 1'-0"



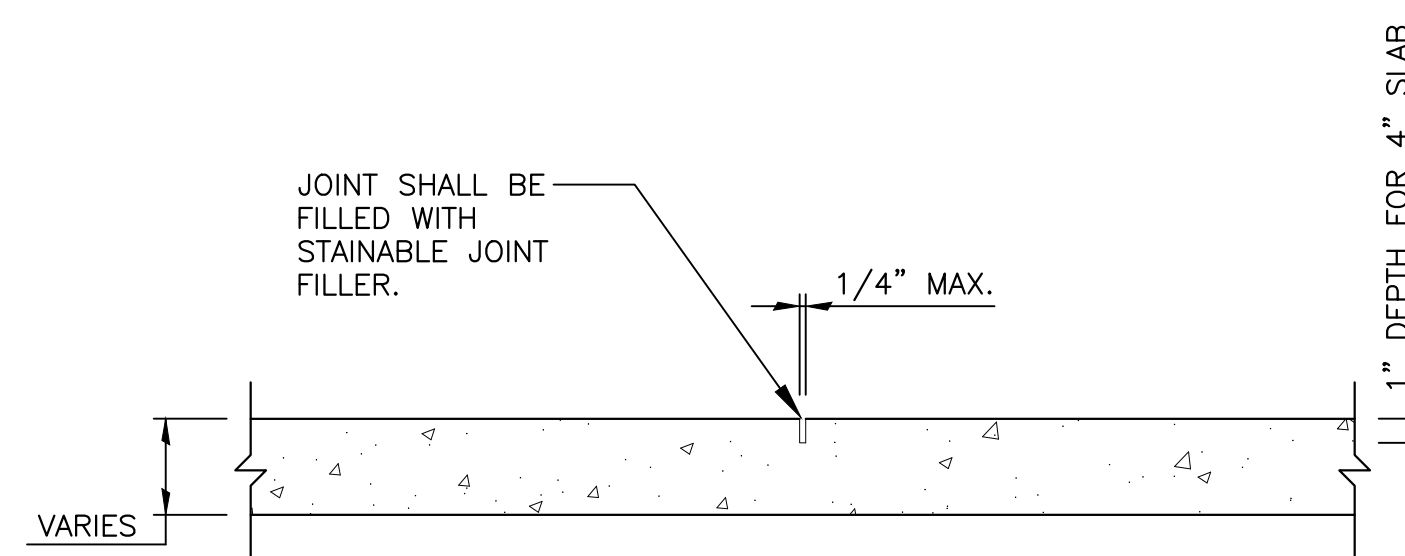
4 GABLE END SECTION
15/18
3/4" = 1'-0"



G ADA RESTROOM SIGN
14/18
N.T.S.

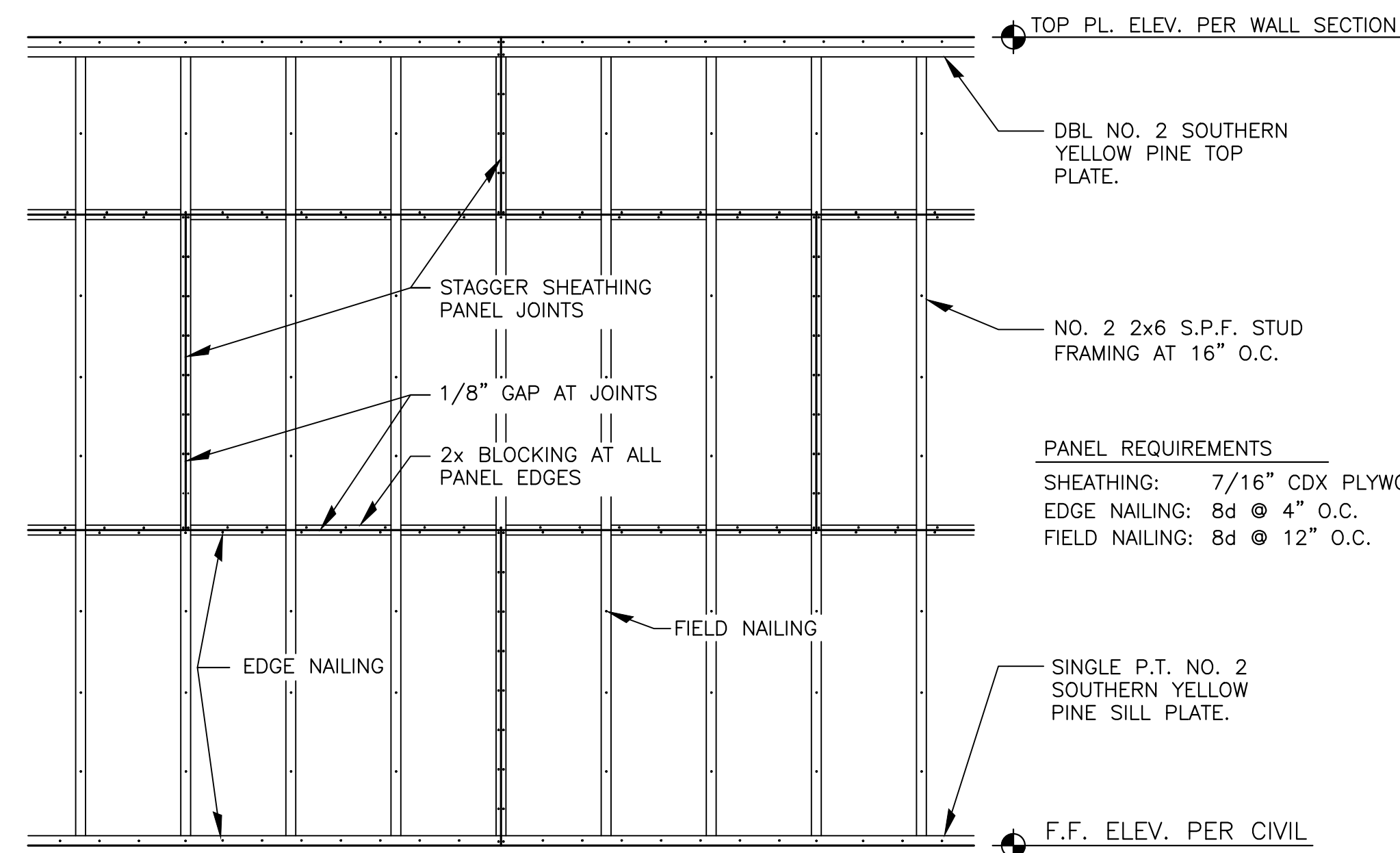


H TYPICAL BEAM SPLICE
15/18
N.T.S.

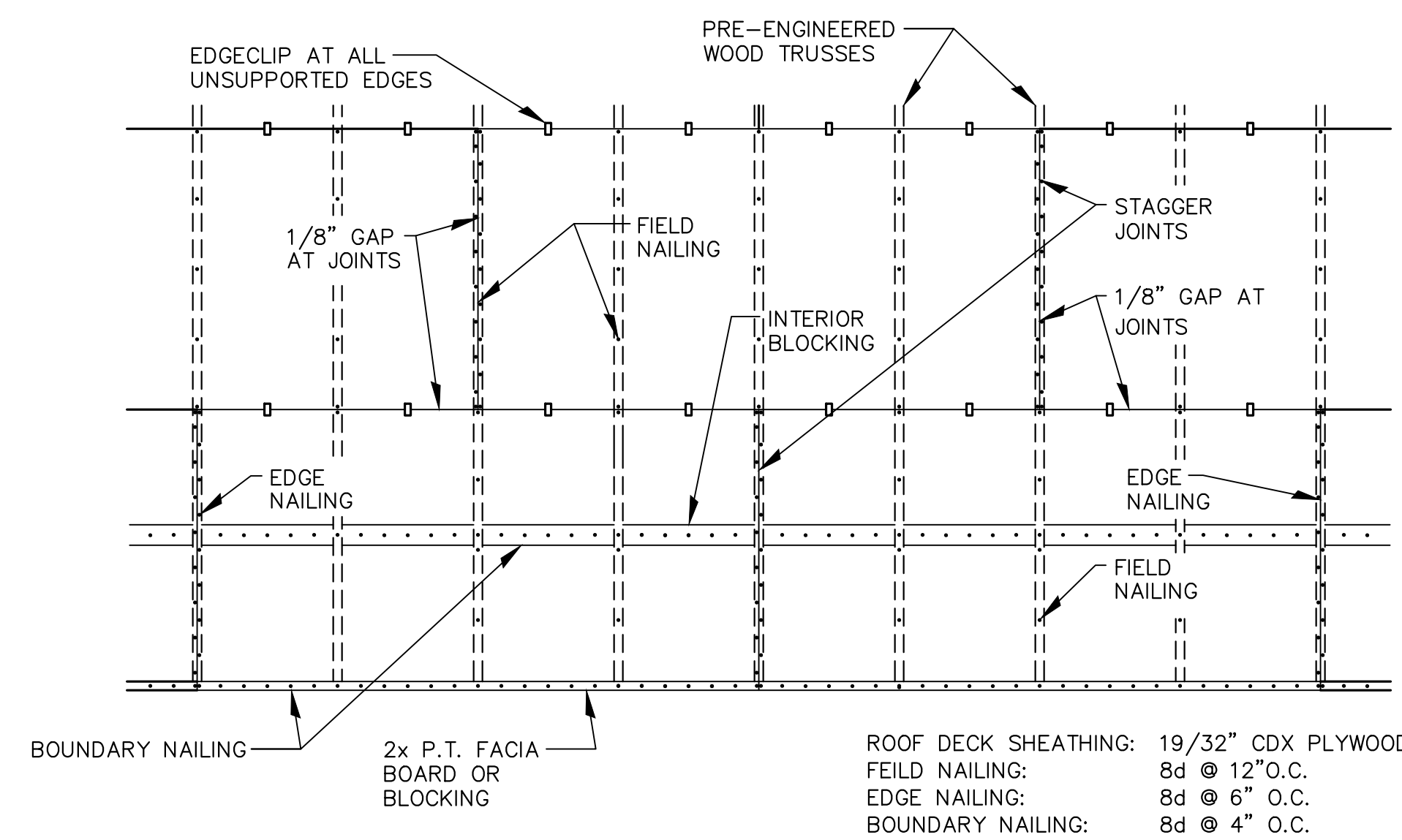


TYP. SAW CUT CONTROL JOINT
N.T.S.

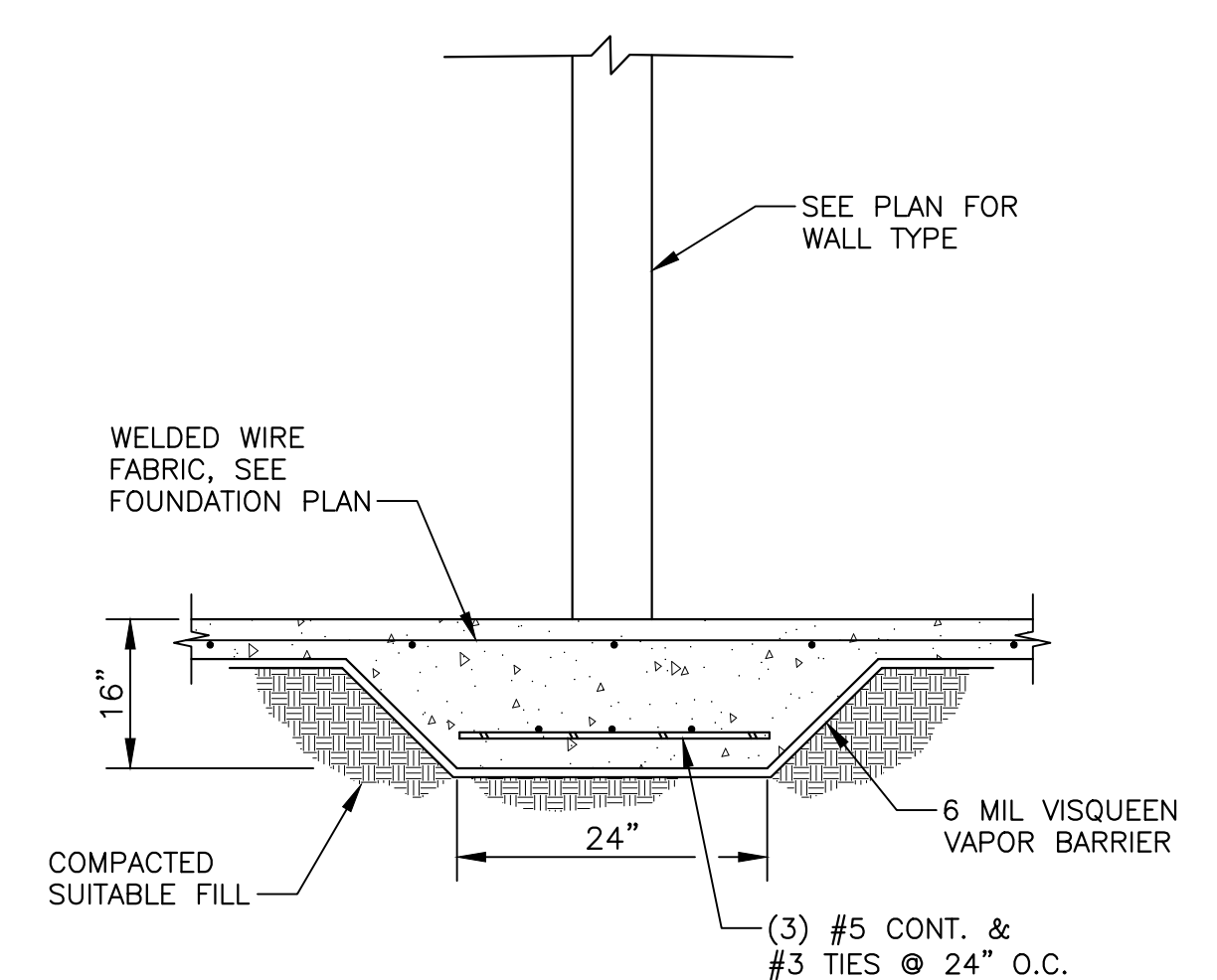
FRAMING NAILING SCHEDULE			
CONNECTION	NAILING	CONNECTION	NAILING
TOP PLATE TO STUD, END NAIL	2x4 (2)- 16d 2x6 (3)- 16d 1 3/4" x 5 1/2" LVL (3)- 16d 1 3/4" x 7 1/4" LVL (4)- 16d 1 3/4" x 9 1/4" LVL (5)- 16d 1 3/4" x 11 1/4" LVL (6)- 16d	TOP PLATES AT WALL INTERSECTIONS, FACE NAIL	(2)- 16d
STUD TO SILL PLATE, * END NAIL	2x4 (2)- 16d 2x6 (3)- 16d 1 3/4" x 5 1/2" LVL (3)- 16d 1 3/4" x 7 1/4" LVL (4)- 16d 1 3/4" x 9 1/4" LVL (5)- 16d 1 3/4" x 11 1/4" LVL (6)- 16d	TOP PLATE LAPS (4'-0" MINIMUM)	16d AT 6" O.C.
DOUBLE SILL PLATES, * FACE NAIL (STAGGER)	10d AT 12" O.C.	BUILT-UP HEADERS AND BEAMS	16d AT 16" O.C. ALONG TOP AND BOTTOM EDGE
DOUBLE STUDS, FACE NAIL (STAGGER)	10d AT 12" O.C. - EACH FACE	BUILT-UP COLUMNS BELOW BEAMS, FACE NAIL	16d AT 16" O.C. - EACH FACE
DOUBLE TOP PLATES, FACE NAIL	16d AT 24" O.C.	BUILT-UP CORNER STUDS (3 STUDS MINIMUM)	16d AT 24" O.C.
		BACKING AND BLOCKING AT TRUSSES AND 2x FRAMING, END NAIL OR TOE NAIL	(2)- 16d EACH END
		BACKING AND BLOCKING AT I-JOIST FRAMING	SIMPSON Z2 OR EQUAL AT EACH END [W/ (4)- 10d x 1 1/2" NAILS]



J EXTERIOR WALL SHEATHING DETAIL
15/18
N.T.S.



K ROOF DECK DETAIL
15/18
N.T.S.



L INTERIOR WALL FOOTING
14/18
N.T.S.

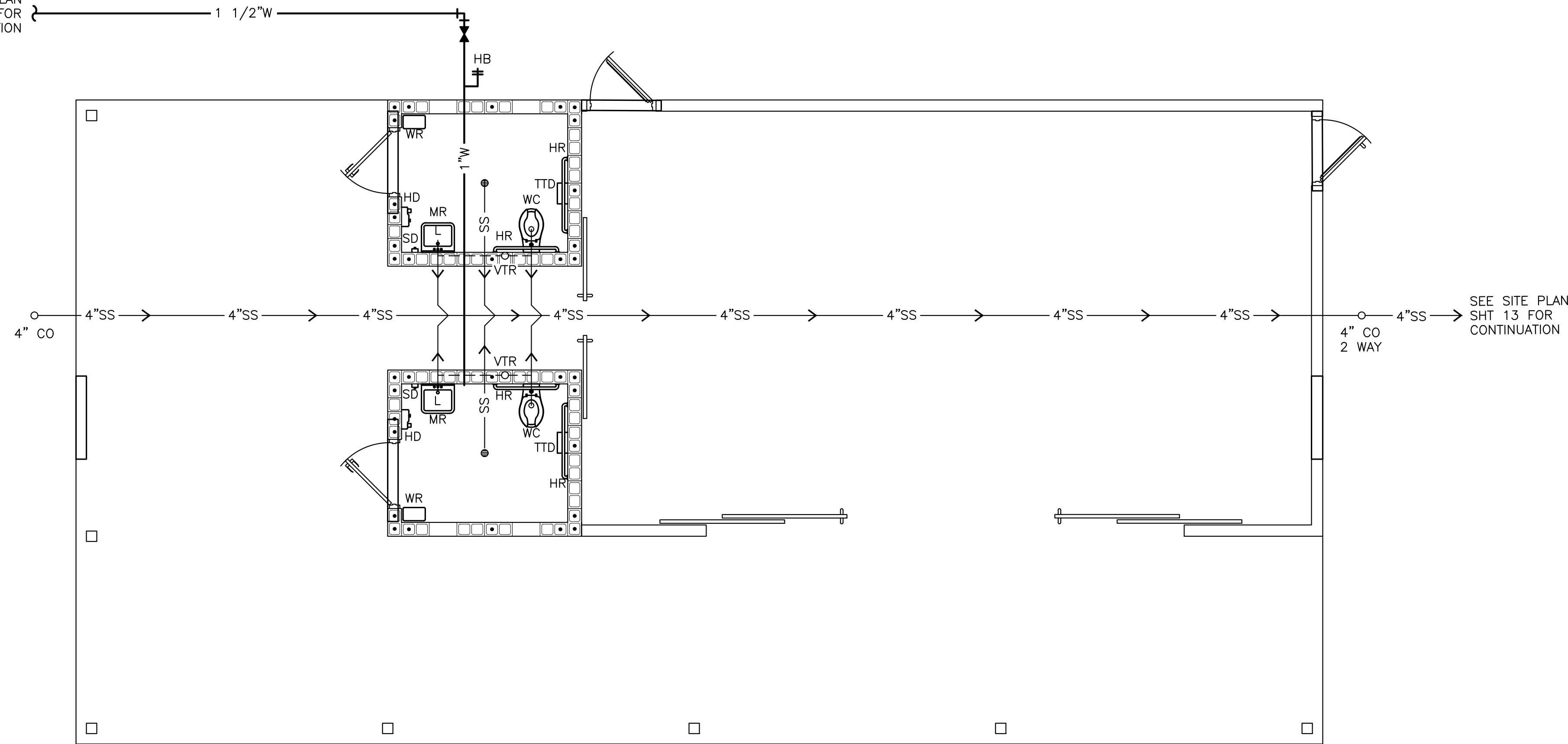
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1 INCH

MITTALUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840

TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Building - Wall Sections & Details
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO.

SEE SITE PLAN
SHT 13 FOR
CONTINUATION



NOTES:

1. PLUMBING LINE SHOWN IS FOR CONFIGURATION ONLY AND IS NOT INDICATIVE OF PHYSICAL LOCATION. THE CONTRACTOR SHALL MODIFY PROPOSED LAYOUT AS NECESSARY TO ACCOMMODATE ACTUAL BUILDING CONSTRUCTION.
2. CONTRACTOR SHALL PREPARE AND SUBMIT PLUMBING RISER DIAGRAM AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
3. ALL PLUMBING FIXTURES AND PRODUCTS SHALL BE OF COMMERCIAL GRADE. ADA UNITS SHALL BE CERTIFIED BY THE MANUFACTURER AS ADA COMPLIANT.
4. WHERE PLUMBING LINES PENETRATE FOOTINGS, THE CARRIER PIPE SHALL BE SLEEVED WITH A PIPE TWO SIZES GREATER THAN THE CARRIER PIPE. IN THE EVENT THE PENETRATION INTERFERES WITH REINFORCING, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIAL INSTRUCTIONS.
5. PROVIDE SUITABLE CARRIERS FOR ALL WALL HUNG FIXTURES.
6. PROTECT ALL EXPOSED PIPING WITH TAMPER/VANDAL PROOF PIPE PROTECTORS.

PLUMBING FIXTURE SCHEDULE					
ITEM	DESCRIPTION	REMARKS	WASTE P-TRAP	CW	HW
WC	WATER CLOSET	ADA, SS, ELONGATED, FLOOR, FLUSH VALVE	4"	1"	-
L	LAVATORY	ADA, SS, WALL MOUNTED	1 1/4"	1/2"	-
FD	FLOOR DRAIN	PROVIDE TRAP PRIMER	3"	-	-
HB	HOSE BIBB	BRASS W/ BACKFLOW PREVENTER	-	3/4"	-
SH	SHOWER	ADA, SS OUTDOOR WALL MOUNTED	4"	3/4"	3/4"

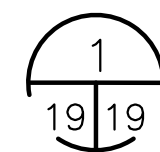
PLUMBING BASIS OF DESIGN

- WC WATER CLOSET, ADA, FLOOR MOUNTED, STAINLESS STEEL, ELONGATED BOWL, TOP FLUSH VALVE, MURDOCK MODEL 1006-HCT TOILET WITH OPEN FRONT SEAT, MURDOCK MODEL 1151-ULF 1.6 GPM TOP SUPPLY FLUSH VALVE, PLASTIC OPEN FRONT TOILET SEAT, INCLUDING MOUNTING HARDWARE.
- L LAVATORY, ADA COMPLIANT, WALL MOUNTED, STAINLESS STEEL SINGLE FAUCET HOLE, MURDOCK MODEL 1013-H1-9. SINGLE HOLE MOUNT FAUCET, ADA COMPLIANT CAST BRASS WITH CHROME FINISH, METERING SLOW CLOSE VALVE, LEVER HANDLE, DELTA MODEL 87T105.
- FD FLOOR DRAIN WITH TRAP PRIMER, SIOUX CHIEF MODEL NO. 832-64DNR CAST IRON FLOOR DRAIN WITH FLANGE, AND 1/2" TRAP PRIMER CONNECTION. TRAP PRIMER SHALL BE INSTALLED ON COLD WATER SUPPLY SERVING SINK IN SAME ROOM OR NEAREST SINK AVAILABLE.
- HB WOODFORD HOSE BIBB MODEL 24, WITH P-1/2 FTP INLET, INCLUDING OPTIONAL METAL WHEEL HANDLE
- VTR VENT TO ROOF, SEE DETAIL.

ACCESSORY EQUIPMENT SCHEDULE		
ITEM	DESCRIPTION	REMARKS
SD	SOAP DISPENSER	STAINLESS STEEL
HD	ELECTRIC HAND DRYER	ADA COMPLIANT
TTD	TOILET TISSUE DISPENSER	DOUBLE ROLL STAINLESS STEEL
WR	WASTE RECEPTACLE	PROVIDED BY OWNER
HR	ADA HANDRAILS	STAINLESS STEEL
MR	MIRROR	STAINLESS STEEL

RESTROOM ACCESSORIES BASIS OF DESIGN

- SD SOAP DISPENSER, ADA COMPLIANT, 20 GA SATIN FINISHED 316 STAINLESS STEEL, LIQUID DISPENSER, SATIN FINISH, SURFACE MOUNTED, BRADLEY MODEL 6562
- HD HAND DRYER, ADA COMPLIANT, WARM AIR, HIGH VELOCITY, SATIN FINISHED 316 STAINLESS STEEL, UNIVERSAL VOLTAGE, SURFACE MOUNTED, SANIFLOW MODEL M06AC-UL
- TTD TOILET TISSUE DISPENSER WITH SHELF, DOUBLE ROLL, SATIN FINISHED 316 STAINLESS STEEL, ANTI-THEFT SPINDLE, BRADLEY MODEL 5263
- HR GRAB BAR, ANSI A117.1 AND ADA COMPLIANT, 18 GA. 316 STAINLESS STEEL WITH SAFETY-GRIP FINISH, 1 1/4" DIA. TUBING, BRADLEY MODEL 837
- MR MIRROR, BRIGHT ANNEALED 20 GA. 316 STAINLESS STEEL, 18"x24", BRADLEY MODEL 7481



PAVILION & RESTROOM BUILDING PLUMBING PLAN

SCALE: 1/4" = 1'-0"

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TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Building - Plumbing Plan & Details
Nassau County, Florida

JOB NO.
0302-31-1
SHEET NO.

GENERAL PLUMBING NOTES:

- ALL WORK IS TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND SPECIFICATIONS:
 - FLORIDA BUILDING CODE - BUILDING, SEVENTH EDITION, WITH REVISIONS.
 - FLORIDA BUILDING CODE - TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES, SEVENTH EDITION.
 - FLORIDA BUILDING CODE - ACCESSIBILITY, SEVENTH EDITION.
 - FLORIDA BUILDING CODE - ENERGY CONSERVATION, SEVENTH EDITION.
 - FLORIDA BUILDING CODE - PLUMBING, SEVENTH EDITION.
 - FLORIDA BUILDING CODE - FUEL GAS, SEVENTH EDITION.
 - FLORIDA BUILDING CODE - MECHANICAL, SEVENTH EDITION.
 - FLORIDA FIRE PREVENTION CODE (FFPC), SEVENTH EDITION.
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), LATEST EDITION.
 - NFPA 70 - NATIONAL ELECTRIC CODE, LATEST EDITION.
 - FEDERAL, STATE AND LOCAL BUILDING CODES NOT COVERED ABOVE.

IN THE EVENT OF CONFLICTS BETWEEN CODE REQUIREMENTS AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.

- ANY APPARATUS, APPLIANCE, MATERIAL, OR WORK NOT SHOWN ON THE DRAWINGS BUT MENTIONED HEREIN, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND OPERABLE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT SPECIFICALLY IDENTIFIED, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

- IN THE EVENT OF CONTRADICTIONS, ON THESE DRAWINGS FROM SHEET TO SHEET, AND/OR BETWEEN PLUMBING SHEETS, MECHANICAL SHEETS, ARCHITECTURAL AND/OR CIVIL SHEETS, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF THE MOST RESTRICTIVE (COSTLY) ACTION SPECIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, FOR CLARIFICATION OF THE WORK TO BE PERFORMED. ANY COSTS GENERATED AS A RESULT OF FAILURE TO IDENTIFY THESE DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

- THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. COORDINATION OF ROUGH-IN DIMENSIONS, MOUNTING HEIGHTS, AND PIPE ROUTING SHALL BE ACCOMPLISHED BY THIS CONTRACTOR DURING CONSTRUCTION.

- WHERE THE WORDS "CONSTRUCT", "PROVIDE", "FURNISH", "INCLUDE" OR "INSTALL" ARE USED IN THE SPECIFICATIONS OR ON THE DRAWINGS, IT SHALL MEAN TO FURNISH, INSTALL AND TEST COMPLETE AND READY FOR OPERATION, THE ITEMS MENTIONED. IF AN ITEM IS EITHER CALLED FOR IN THE SPECIFICATION OR CALLED FOR ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUDING SAME IN THE WORK.

- SHOULD ANY QUESTIONS AND/OR DISCREPANCIES ARISE REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS, THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER FOR PROPER INTERPRETATION AND/OR CLARIFICATION PRIOR TO THE COMMENCEMENT OF ANY WORK. IN THE ABSENCE OF SUCH REQUEST AND/OR AUTHORIZATION FROM THE ENGINEER, THE GENERAL CONTRACTOR WILL BE PROCEEDING AT HIS OWN RISK.

- THIS CONTRACTOR SHALL PAY FOR ALL INSPECTIONS, PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS AND SCHEDULING APPROPRIATE INSPECTIONS DURING CONSTRUCTION WITH THE AUTHORITY HAVING JURISDICTION.

- ALL WORK SHALL BE INSTALLED IN A WORKMANLIKE MANNER BY EXPERIENCED TRADESMEN. CONTRACTORS SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT JOB COMPLETION AND BEFORE FINAL PAYMENT IS MADE.

- FURNISH ONE MARKED-UP SET OF "PLUMBING AS BUILTS" TO THE PRIME CONTRACTOR SHOWING THE LOCATION OF CLEANOUTS, SHUT-OFF VALVES WITH DIMENSIONAL LOCATION OF ALL EXTERIOR UTILITIES.

- WARRANTY AND FACTORY SERVICE - ALL PLUMBING EQUIPMENT, MATERIALS AND LABOR PROVIDED UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL COMPLETION AND ACCEPTANCE. ANY DEFECTS ARISING WITHIN THIS PERIOD SHALL BE REPAIRED AND/OR REPLACED AT NO COST TO THE OWNER. ALL REFRIGERATION (WATER COOLER) COMPRESSORS TO BE PROVIDED WITH FIVE-YEAR FACTORY WARRANTIES.

- ALL PIPING INVERTS ARE TO BE ESTABLISHED AFTER FINISHED FLOOR ELEVATION AND UTILITY SEWER INVERTS ARE DETERMINED.

- INTERIOR AND EXTERIOR WASTE AND VENT PIPING TO BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS, ASTM D2665-82 (PVC) AND ASTM D2661-84 (DWV).

- ALL VALVES TO BE BALL VALVES UNLESS OTHERWISE SPECIFIED ON DRAWINGS. BALL VALVES TO BE 150 SWP AND 600 WOG CLASS, TWO PIECE FULL PORT CAST BRONZE BODY (ASTM-61, ASTM-62 OR ASTM B-584), FULL SIZE STAINLESS STEEL BALL WITH TEFLON (TFE) SEATS AND SEALS. VALVES TO CONFORM TO MSS-SP-110, NIBCO T-585-70-66, OR APPROVED EQUAL BY APOLLO, POWELL, WATTS OR GRINNELL.

- WASTE PIPING SHALL BE TESTED AND PROVEN TIGHT BY A WATER TEST OF THE SYSTEM WITH NOT LESS THAN 10'-0" HYDROSTATIC HEAD, FOR A PERIOD OF NOT LESS THAN 2 HOURS.

- WATER PIPING SHALL BE TESTED AND PROVIDED TIGHT UNDER A HYDROSTATIC PRESSURE OF NOT LESS THAN 150 PSIG, FOR A PERIOD NOT LESS THAN 2 HOURS.

- COLD WATER PIPING, ABOVE AIR CONDITIONED CEILINGS TO BE INSULATED WITH 0.375 INCH THICK POLYETHYLENE FOAM INSULATION TO PREVENT CONDENSATION.

- ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 610 OF THE FLORIDA PLUMBING CODE.

- ALL FLOOR DRAINS TO BE PROVIDED W/TRAP PRIMERS, PRIMERS TO BE ACCESSIBLE FOR MAINTENANCE BUT NOT TO THE PUBLIC. WHERE INSTALLED IN WALLS, ACCESS PANELS TO BE PROVIDED.

- DIELECTRIC UNIONS TO BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS.

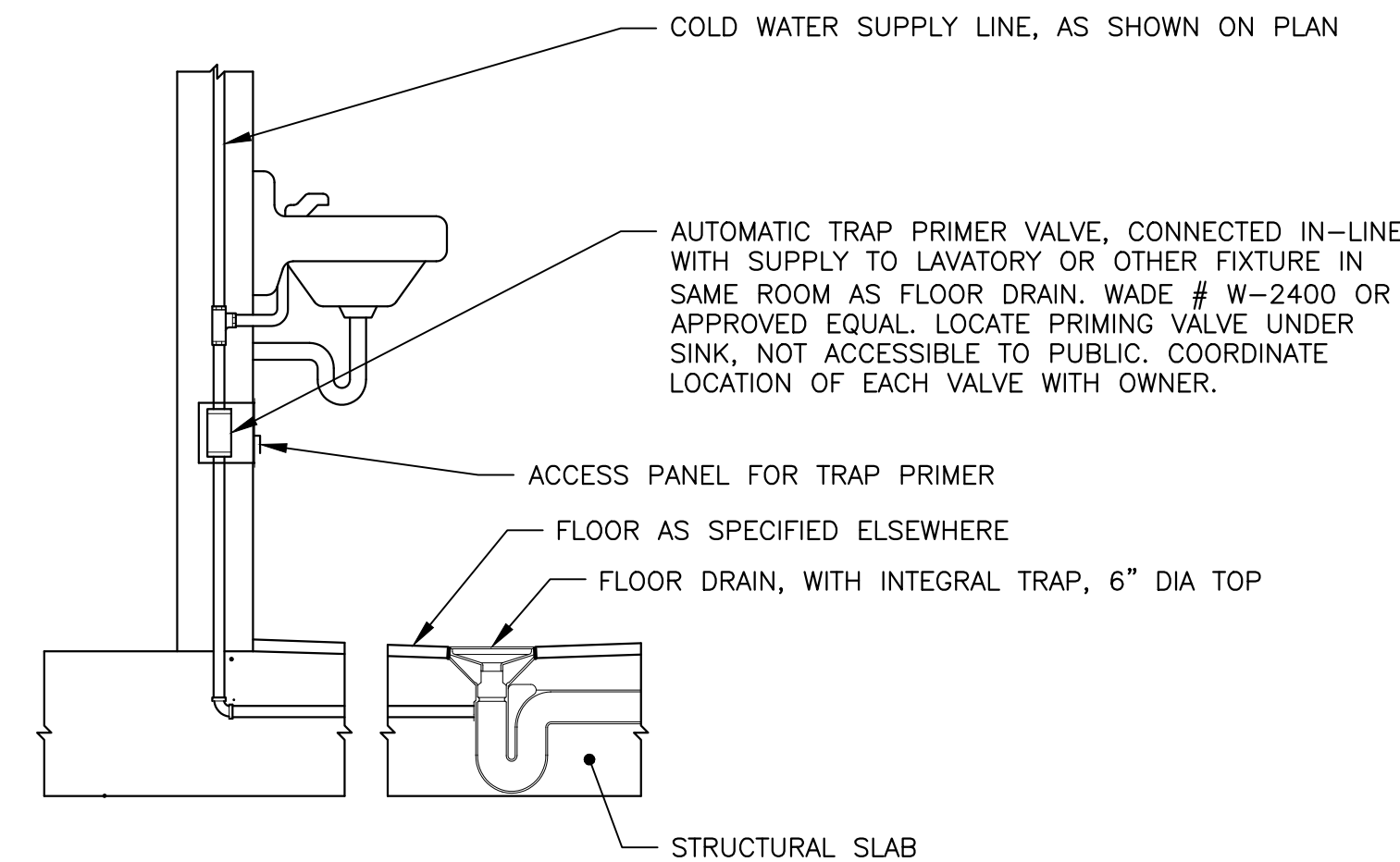
- ALL HOSE BIBS AND FAUCETS WITH THREADED HOSE CONNECTIONS TO HAVE VACUUM BREAKERS.

- FURNISH AND INSTALL CLEANOUTS IN LOCATIONS SHOWN ON PLANS. CLEANOUTS IN FINISHED FLOORS TO HAVE A SQUARE ACCESS COVER AND FRAME OF BRONZE. CLEANOUTS IN OUTSIDE LOCATIONS TO BE BROUGHT TO THE SURFACE AND SET FLUSH WITH FINISHED GRADE IN A 24" SQUARE CONCRETE PAD. REFER TO TYPICAL CLEANOUT DETAILS FOR ADDITIONAL REQUIREMENTS.

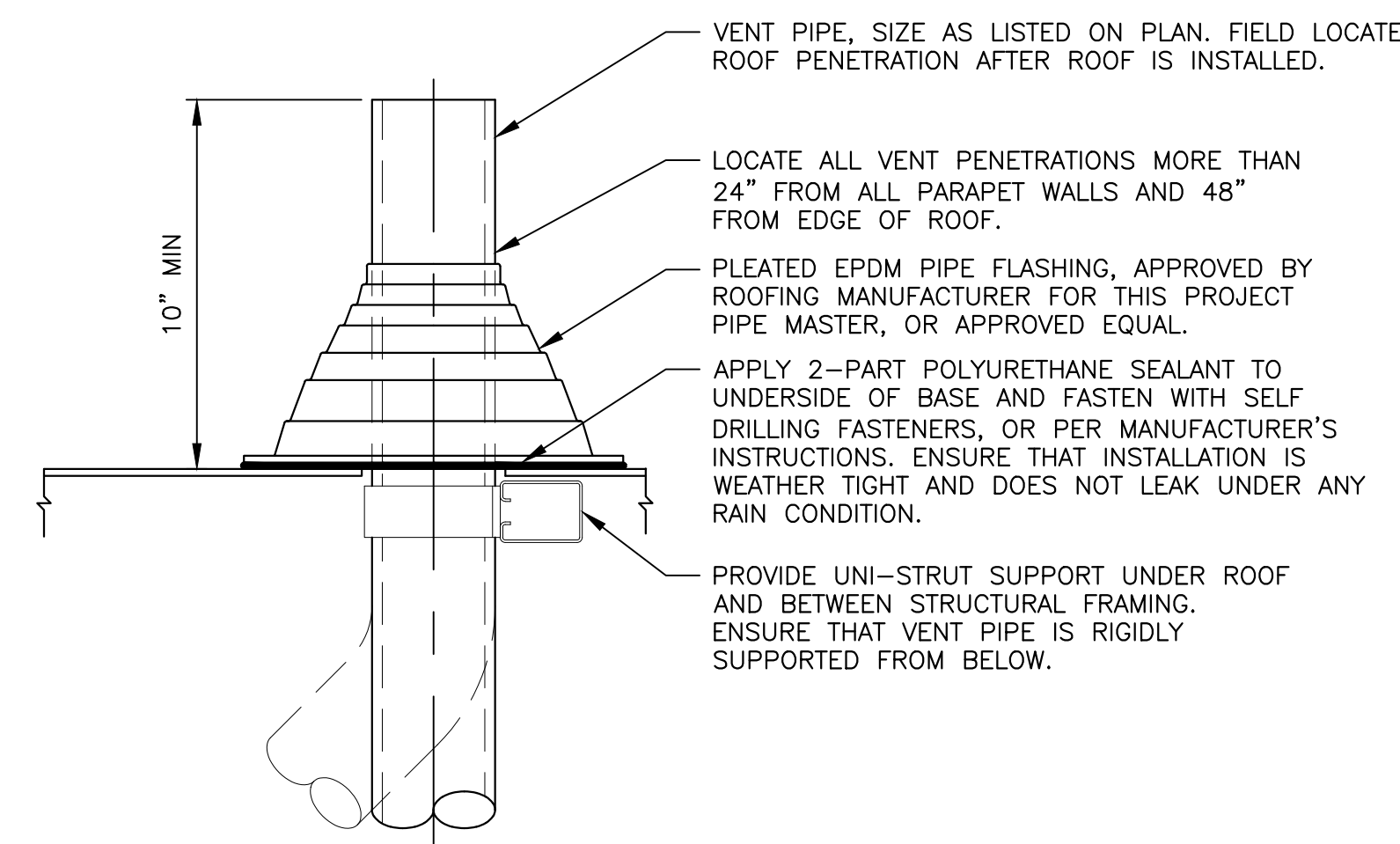
- ALL VENTS EXTENDING THROUGH ROOF SHALL BE PROVIDED WITH AN APPROVED VENT FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF. SUBMIT VENT FLASHING PRODUCT DATA FOR REVIEW BY THE ENGINEER. ENSURE THAT VENT STACK IS OFF-SET PER TYPICAL DETAIL TO PENETRATE FLAT PORTION OF ROOF PANEL.

- ALL WATER CONNECTIONS SHALL BE PROVIDED WITH AN INDIVIDUAL SHUT-OFF VALVE, SAME SIZE AS THE FIXTURE OR EQUIPMENT CONNECTION.

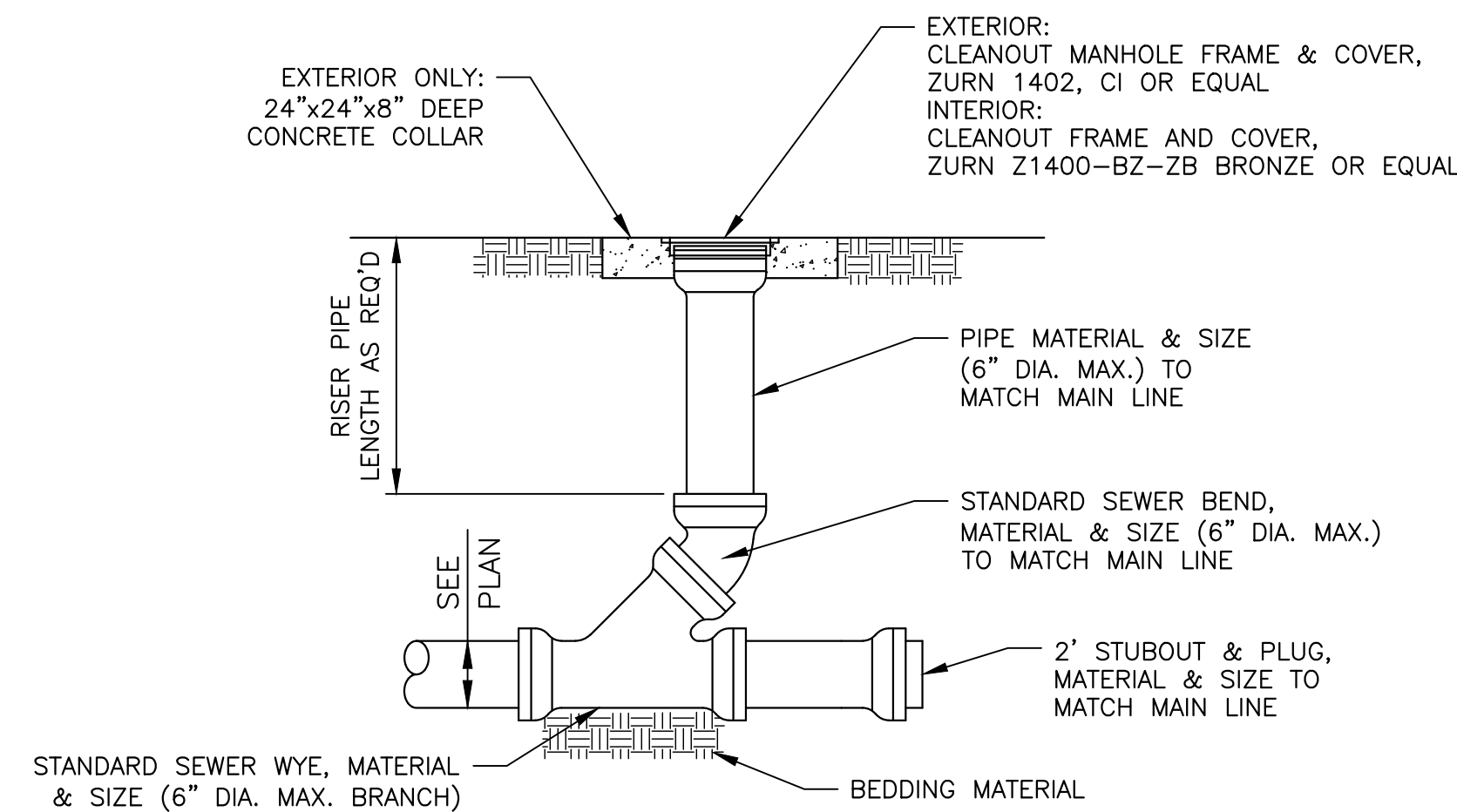
- ALL FIXTURE TRIM SHALL BE CHROME PLATED, AND WHERE PIPING FAUCETS, ETC., PROTRUDE THROUGH THE WALLS, FLOORS, OR FIXTURE SLABS, CHROME PLATED CAST BRASS ESCUTCHEONS SHALL BE INSTALLED. ALL WATER CONNECTIONS TO FIXTURES SHALL BE PROVIDED WITH STOPS.



FLOOR DRAIN TRAP PRIMER DETAIL
NTS



VENT THRU ROOF DETAIL
NTS



SEWER CLEANOUT DETAIL
NTS

NO	DATE	BY	REVISION DESCRIPTION

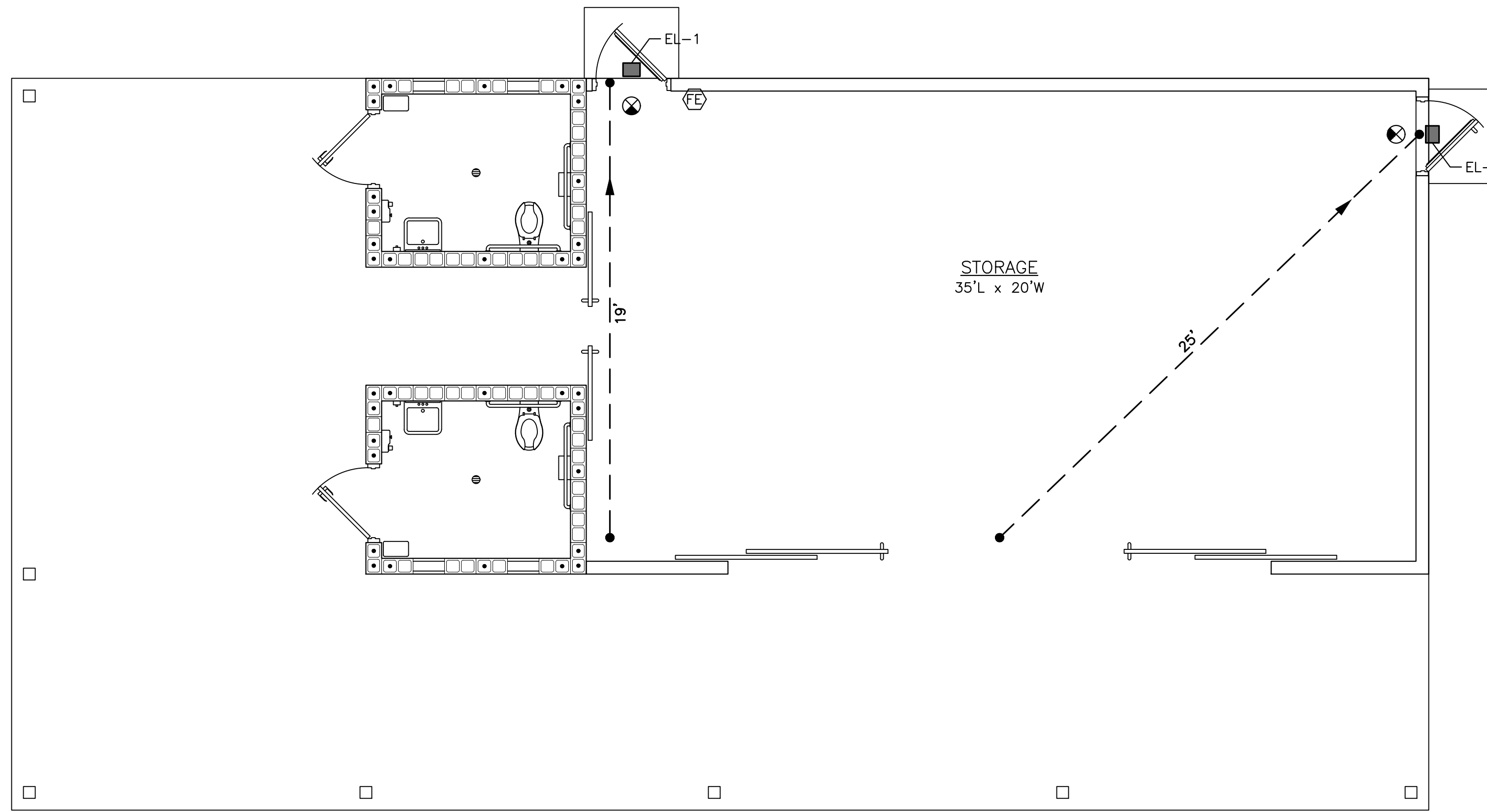
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DRAWN: USA
PROJ. MGR.: ITN
DATE: 10/21/21
SCALE: 1" = 1" INCH

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TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Building - Plumbing Details & Notes
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JOB NO. 0302-31-1
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LIFE SAFETY PLAN
1/4" = 1'-0"

BUILDING CODE SUMMARY & LIFE SAFETY CODE CRITERIA	
CODES: FLORIDA BUILDING CODE (FBC) SEVENTH EDITION (2020), FLORIDA FIRE PREVENTION CODE (FFPC) SEVENTH EDITION, NFPA 101 LIFE SAFETY CODE, 2018 EDITION	
	ASSEMBLY
GROSS FLOOR AREA	807 SF
CONDITIONED FLOOR AREA	0 SF
OCCUPANCY:	STORAGE - S1
OCCUPANCY LOAD	1/200 SF
NUMBER OF OCCUPANTS:	5
TYPE OF CONSTRUCTION (COMBUSTIBLE, UN-PROTECTED)	III-B
AUTOMATIC SPRINKLER & ALARM	NO
NUMBER OF EXITS & EXIT WIDTH REQUIRED	1 @ 3'-0"
NUMBER OF EXITS & EXIT WIDTH PROVIDED	2 @ 3'-0"
ALLOWABLE LONGEST PATH OF TRAVEL	100'
ACTUAL LONGEST PATH OF TRAVEL	25'
ADA ACCESSIBLE TOILET ROOMS:	2
NOTES: 1. REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION OF EXIT SIGNS AND EMERGENCY LIGHTING.	

LEGEND

- EXIT SIGN
- LONGEST ROUTES
- FIRE EXTINGUISHER, PROVIDE & LOCATE PER FFPC, SECTION 13.6
- EXTERIOR EMERGENCY LIGHT

- LIFE SAFETY PLAN NOTES:
- PORTABLE FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY MOUNTED IN AN ACCESSIBLE LOCATION
 - UNLESS OTHERWISE NOTED, EACH EXTINGUISHERS SHALL BE A 10LB, DRY CHEMICAL, CLASS ABC UNIT.
 - CROSS-REFERENCE ALL EXIT SIGNAGE LOCATIONS WITH ELECTRICAL PLANS

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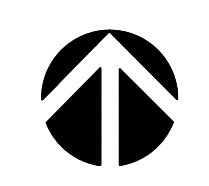
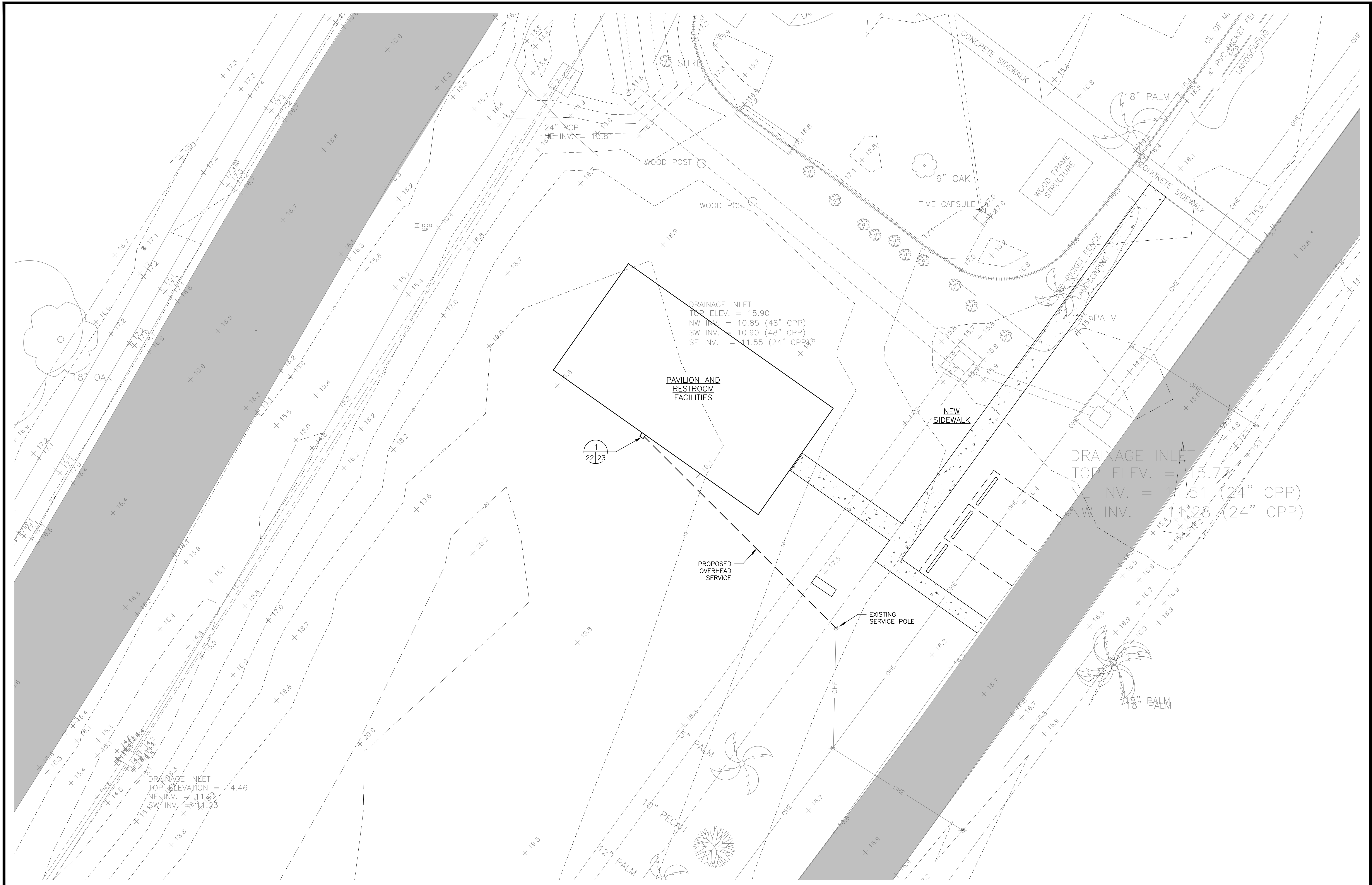
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TOWN OF CALLAHAN
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Building - Life Safety Plan & Details
Nassau County, Florida

JOB NO.
0302-31-1
SHEET NO.

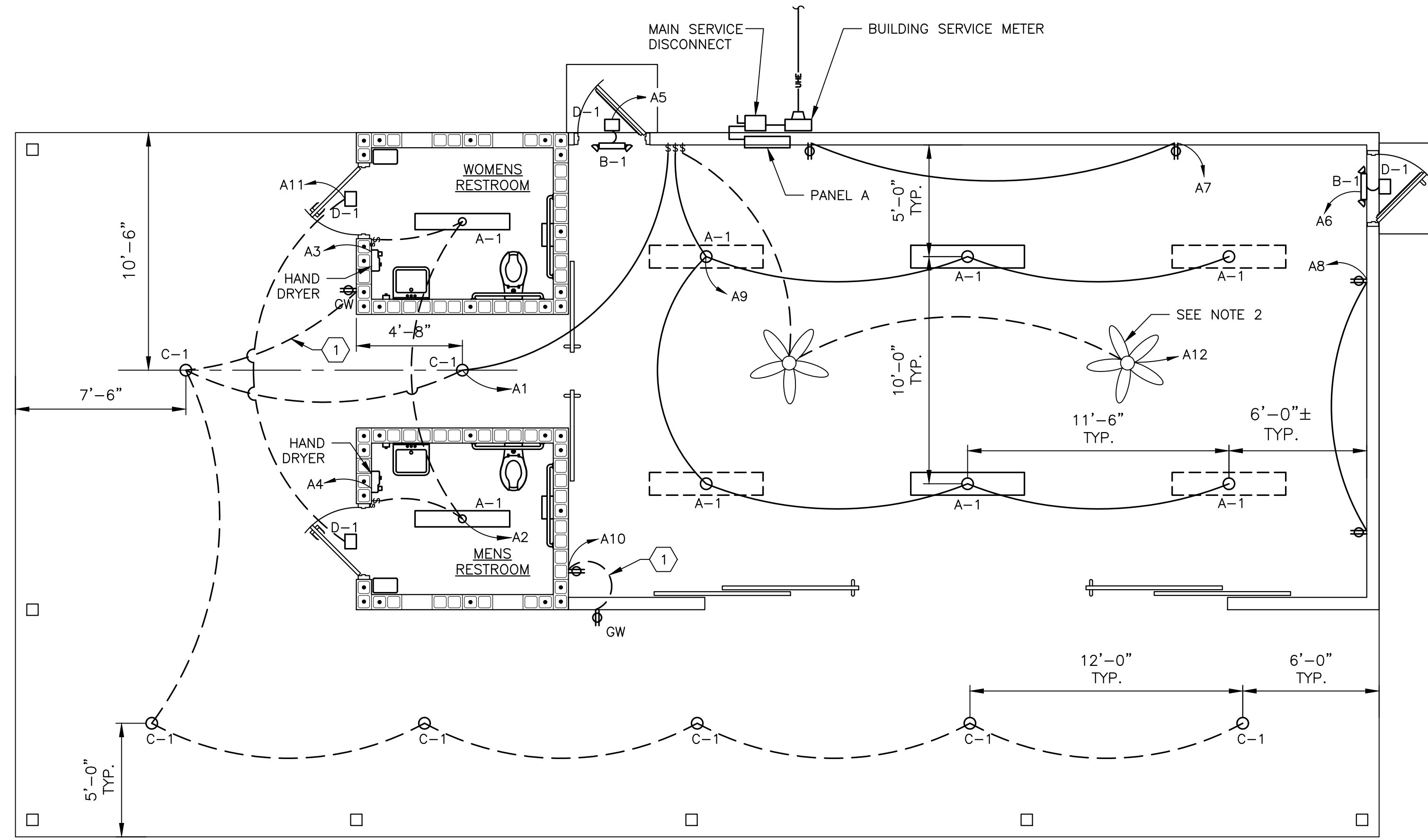
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DEPOT PARK RESTROOM & PAVILION ELECTRICAL SITE PLAN

1" = 10'

		DSH MAL TPN DATE 10/21/21 1" = 10"	NO DATE BY	REVISION DESCRIPTION
TOWN OF CALLAHAN CBBC 20 NR Water Main Replacement & Extensions Depot Park Restroom & Pavilion Electrical Site Plan Nassau County, Florida		JOB NO. 0302-31-1 SHEET NO.		
MITTAUER & ASSOCIATES, INC. CONSULTING ENGINEERS 580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073 TEL. (904) 278-0030 FAX. (904) 278-0040		22		



- NOTES:
- COORDINATE ALL INCOMING SERVICE WORK WITH UTILITY COMPANY INCLUDING PROVIDING FEEDERS, CONDUITS, WEATHERHEADS, GROUNDING AND METER INSTALLATION.
 - CEILING FANS BY OWNER. CONTRACTOR SHALL PROVIDE FAN READY BOX INCLUDING SUPPLEMENTAL SUPPORT FRAMING.
 - ADDITIVE ALTERNATE No.2:
 - A-1 FIXTURES
 - CIRCUIT A12
 - BASE BID CIRCUIT A9 SHALL INCLUDE:
 - A-1 FIXTURES
 - WIRED LIGHTING BOXES ALL WIRE, CONDUIT AND SWITCHING.

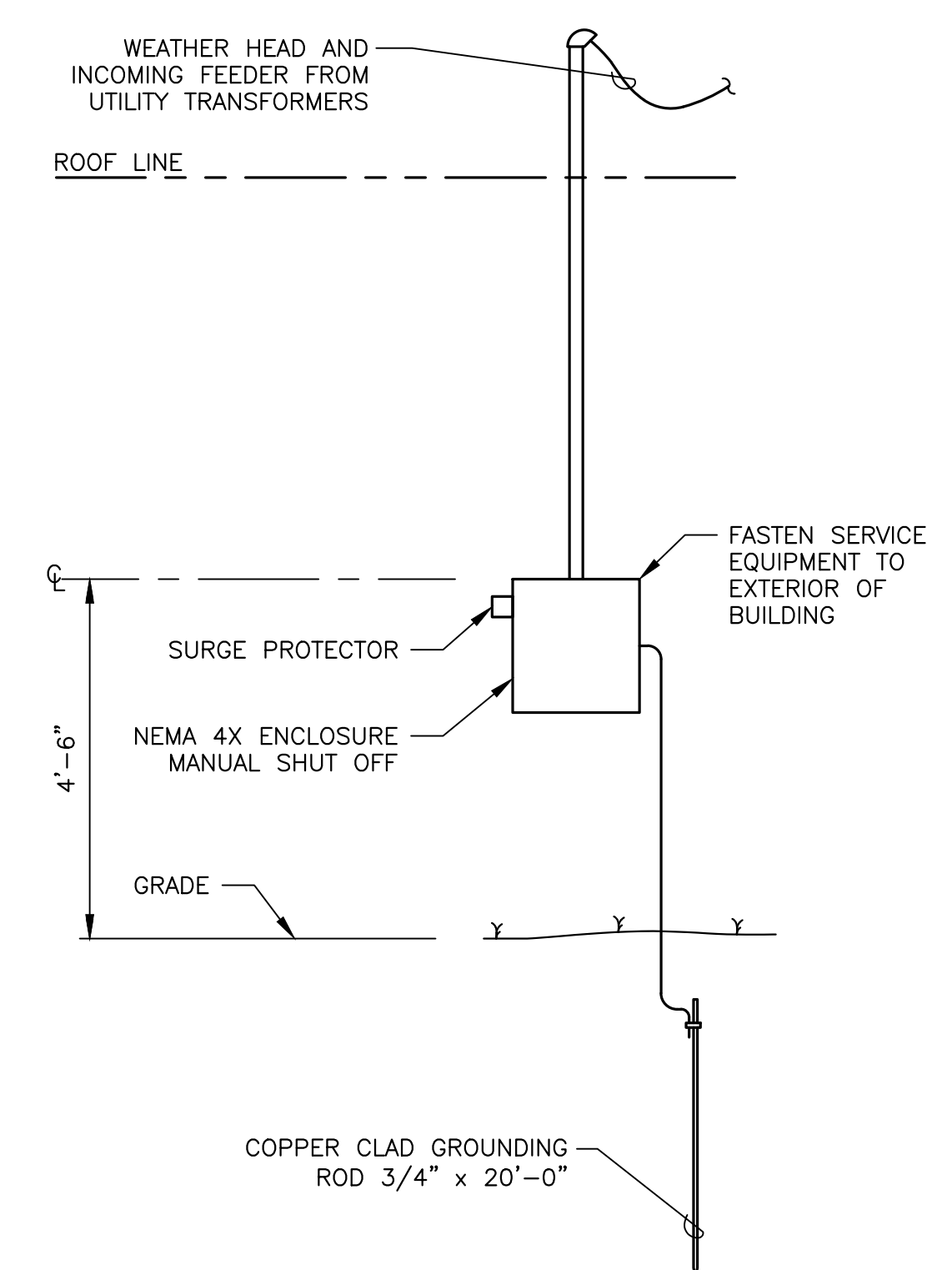


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23/23

PAVILION & RESTROOM BUILDING ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

LEGEND	
	DUPLEX RECEPTACLE, 120 VOLT, 20 AMP
	SWITCH
	SWITCH OCCUPANCY/VACANCY SENSOR, LEVITON IPS02 OR EQUAL
	EXPOSED CONDUIT RUN
	CONCEALED CONDUIT RUN IN WALLS OR CEILING
	DISCONNECT SWITCH - AMPS/POLE/ENCLOSURE
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHER PROOF WITH GFCI, PROVIDE LOCKABLE BOX FOR THE DEVICE
	SURGE PROTECTIVE DEVICE, SUITABLE FOR SERVICE ENTRANCE, UL 1449 SECOND EDITION, UL 1289, ANSI/IEEE C82.1, 240 KA PEAK SURGE CURRENT RATING PER PHASE SQ D TVS1EMA24A OR EQUAL
	UNDERGROUND CONDUIT RUN



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22/23

ELECTRICAL EQUIPMENT RACK DETAIL

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TPN	PROJ. MGR.
DATE	10/21/21
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DATE	
BY	
REVISION DESCRIPTION	

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JOB NO. 0302-31-1
SHEET NO.

NEMA 12							PANEL "A"							10 KAIC							100 AMP MAIN BREAKER 120/240V, 1Ø, 3W																																																																																																																										
CIRCUIT NO.	TRIP AMPS	NO. POLES	VOLT AMPS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	REMARKS	CIRCUIT NO.	TRIP AMPS	NO. POLES	VOLT AMPS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	REMARKS	CIRCUIT NO.	TRIP AMPS	NO. POLES	VOLT AMPS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	REMARKS	CIRCUIT NO.	TRIP AMPS	NO. POLES	VOLT AMPS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	REMARKS																																																																																																																
1	20	1	1300	2-#12	1-#12	3/4"	EXTERIOR RECESSED LIGHTS	2	20	1	1200	2-#12	1-#12	3/4"	RESTROOM LIGHTS & EQUIPMENT	3	20	1	1150	2-#12	1-#12	3/4"	WOMEN'S HAND DRYER (1)	4	20	1	1150	2-#12	1-#12	3/4"	MEN'S HAND DRYER (1)	5	20	1	100	2-#12	1-#12	3/4"	BACK DOOR SAFETY LIGHTING	6	20	1	100	2-#12	1-#12	3/4"	SIDE DOOR SAFETY LIGHTING	7	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES	8	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES	9	20	1	300	2-#12	1-#12	3/4"	INTERIOR LIGHTS	10	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES	11	20	1	100	2-#12	1-#12	3/4"	RESTROOM EXTERIOR LIGHTS	12	20	1	-	2-#12	1-#12	3/4"	ADDITIVE ALTERNATE #2	13	-	-	-	-	-	-	SPACE	14	-	-	-	-	-	-	SPACE	15	-	-	-	-	-	-	SPACE	16	-	-	-	-	-	-	SPACE	17	-	-	-	-	-	-	SPACE	18	-	-	-	-	-	-	SPACE

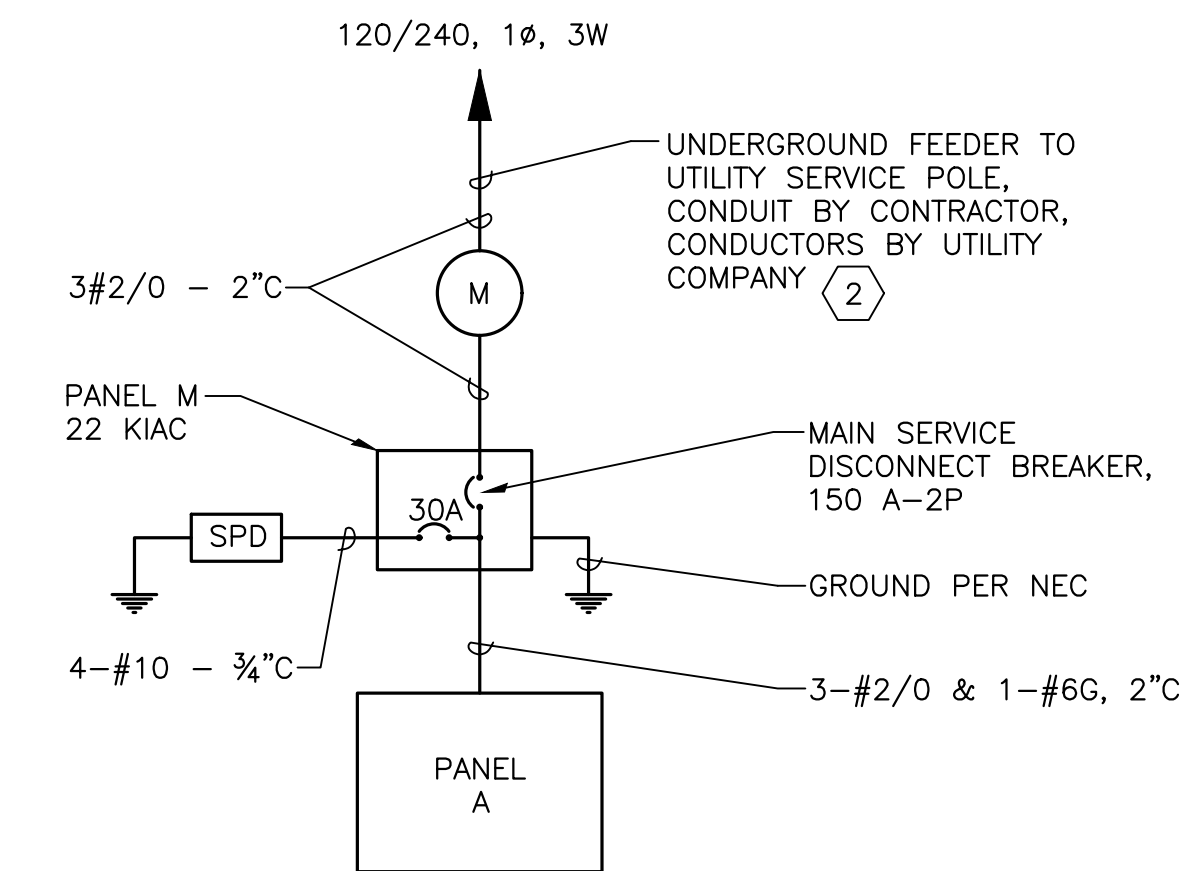
NOTES:

- 1 PROVIDE GFCI BREAKER FOR THIS CIRCUIT.
- 2 COORDINATE ALL INCOMING SERVICE WORK WITH UTILITY COMPANY INCLUDING PROVIDING FEEDERS, CONDUITS, WEATHERHEADS, GROUNDING, AND METER INSTALLATION.

LUMINAIRE SCHEDULE									
TYPE	MFG	CATALOG No.	DESCRIPTION	LAMP DESCRIPTION	FIXTURE WATTS/LUMENS	VOLTS	MOUNTING	REMARKS	
A-1	LITHONIA	DMW2QMB-L24-3000LM-ACL-WD-MVOLT-GZ10-40K-80CRI	LED INDUSTRIAL LENSED, DAMP LOCATION	LED	27/3,761	120	SURFACE	-	
B-1	LITHONIA	LHQM-LED-R-HO	EXIT SIGN WITH EMERGENCY LIGHTING	LED	4.3/110	120	SURFACE	-	
C-1	LITHONIA	LDN6-35/40-L06WR-MVOLT-EZ10	RECESSED LIGHTING	LED	44.3/4,000	120	RECESSED	-	
D-1	LITHONIA	TWH LED-10C-1000=40K-T3M-MVOLT-PE-SF=DWHGXD	WALL PACK EXTERIOR EXIT SAFETY LIGHTS	LED	39/3,377	120	SURFACE	PHOTOCELL	

GENERAL ELECTRICAL NOTES

1. THERE SHALL NOT BE MORE THAN THREE 90 DEGREE TURNS IN ANY CONDUIT RUN. PROVIDE PULL BOXES AS REQUIRED.
2. THERE SHALL NOT BE SPLICING OF CONDUCTORS IN ANY RUN WITHOUT ENGINEER'S APPROVAL.
3. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 4X STAINLESS STEEL, UNLESS OTHERWISE NOTED. INTERIOR ENCLOSURES SHALL BE NEMA 12.
4. RACEWAYS SHALL BE ALUMINUM WHERE EXPOSED WITH LIQUIDTITE FLEXIBLE METAL CONDUIT USED FOR MOTOR CONNECTIONS. NO DIRECT BURIAL CABLE SHALL BE USED.
5. ALL RACEWAYS SHALL CONTAIN COPPER, THWN/THHN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC, ARTICLE 250, UNLESS OTHERWISE NOTED.
6. PROVIDE WEATHERPROOF JUNCTION BOXES WHERE REQUIRED AND IDENTIFY ALL CONDUCTORS IN BOXES.
7. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, BREAKER RATINGS AND EQUIPMENT RATINGS TO MATCH EQUIPMENT SUPPLIED ON THIS PROJECT.
8. CONDUIT EXPOSURE: OVERHEAD CONDUITS SHALL BE CONCEALED IN CEILING, CONDUITS TO EXTERIOR OUTLETS SHALL BE CONCEALED IN CMU WALLS AND MAY FEED FROM OVERHEAD, CONDUITS TO INTERIOR WALL FIXTURES SHALL BE EXPOSED.
9. CONTRACTOR SHALL PROVIDE LAMPS WHERE NOT INCLUDED WITH FIXTURE.
10. CONDUIT:
EXPOSED INTERIOR: FLEXIBLE PVC
EXPOSED EXTERIOR: FLEXIBLE METAL, SOLID METAL



ONE-LINE DIAGRAM
NTS

DESIGN: TPN
DRAWN: JSA
PROJECT MGR: TPN
DATE: 10/21/21
SCALE: 1" = 1"

MITTALUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL: (904) 278-0030 FAX: (904) 278-0840



TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement & Extensions
Building - Electrical Schedules & Diagram
Nassau County, Florida

JOB NO. 0302-31-1
SHEET NO.