

| EXISTING | LEGEND | PROPOSED |
|----------|--|----------|
| --- | TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH) | --- |
| --- | RIGHT OF WAY LINE | --- |
| --- | PROPERTY LINE | --- |
| --- | EDGE OF PAVEMENT | --- |
| --- | CURB | --- |
| --- | DEPRESSED CURB | --- |
| --- | SIDEWALK | --- |
| --- | FENCES | --- |
| --- | TREELINE | --- |
| --- | ROADWAY SIGNS | --- |
| --- | WETLAND LINE | --- |
| --- | MUNICIPAL BOUNDARY LINE | --- |
| --- | TYPE '9' INLET | --- |
| --- | TYPE 'C', 'D', 'E' INLET | --- |
| --- | STORM MANHOLE | --- |
| --- | SANITARY MANHOLE | --- |
| --- | FLARED END SECTION | --- |
| --- | HEADWALL | --- |
| --- | HYDRANT | --- |
| --- | POLE MOUNTED LIGHT | --- |
| --- | CABLE TV CONDUIT | --- |
| --- | WATER MAIN | --- |
| --- | GAS MAIN | --- |
| --- | TELEPHONE CONDUIT | --- |
| --- | ELECTRIC CONDUIT | --- |
| --- | SANITARY PIPE | --- |
| --- | STORM PIPE | --- |

- NOTES:
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FEATURES DURING CONSTRUCTION. ANY FEATURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF SAWS AND THE ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES SHOWN AND NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED TO THE UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND QUANTITIES.
 - CONTRACTOR SHALL INSTALL PROTECTIVE BOLLARDS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF PROTECTIVE BOLLARDS WITH SAWS AND THE ENGINEER.
 - CONTRACTOR SHALL PROVIDE FREEZE PROTECTION TO HOSE BIB, PRESSURE TRANSMITTER ASSEMBLY, PRESSURE GAUGE ASSEMBLY AND TO ALL DISCHARGE LINES 6-INCH DIAMETER AND SMALLER.

DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC

ADDRESS: 1118 VINTAGE WAY

CITY: NEW BRAUNFELS STATE: TEXAS ZIP: 78132

PHONE #: (512) 923-9160 FAX: N/A

TOTAL LINEAR FOOTAGE OF PIPE: TOTAL ACREAGE: 232.87

SAWS BLOCK MAP: N/A TOTAL EDU'S: 1,795

SAWS JOB NO.:

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| 1 | 1/20/24 | DJI | REVISED PER SAWS REVIEW COMMENTS DATED DECEMBER 5, 2023 |
| 2 | 4/19/24 | DJI | REVISED PER SAWS REVIEW COMMENTS DATED MARCH 22, 2024 |
| 3 | 7/2/24 | DJI | REVISED SERVICE POLE LOCATION PER SAWS COMMENTS DATED JUNE 20, 2024 |

Jordan Volk
TEXAS LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 142284
COLLIERS ENGINEERING & DESIGN, INC.
T.X. TPBE Reg. #: F-14909

VIDA SAN ANTONIO LIFT STATION
FOR SOUTHSTAR AT VERANO, LLC

CITY OF SAN ANTONIO
BEXAR COUNTY
TEXAS

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Engineering & Design

HOLMDEL (Headquarters)
101 Crawford's Corner Road,
Suite 3400
Holmdel, NJ 07733
Phone: 732.383.1950
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| AS SHOWN | 11/03/23 | DJI | JM |

| PROJECT NUMBER: | DRAWING NAME: |
|-----------------|---------------|
| 22010003A | W-LATT |

SHEET TITLE:
LIFT STATION SITE PLAN

SHEET NUMBER:
LS-1

| REV | DATE | BY | DESCRIPTION |
|-----|---------|-----|--|
| 1 | 1/30/24 | DJI | REVISED PER SAWS REVIEW COMMENTS DATED DECEMBER 15, 2023 |
| 2 | 4/19/24 | DJI | REVISED PER SAWS REVIEW COMMENTS DATED MARCH 22, 2024 |

Digitally signed by Jordan Volk
Texas Licensed Professional Engineer
License Number: 142341
Colliers Engineering & Design, Inc.
T.X. TBPE Reg. #: F-14909

VIDA SAN ANTONIO LIFT STATION
FOR **SOUTHSTAR AT VERANO, LLC**

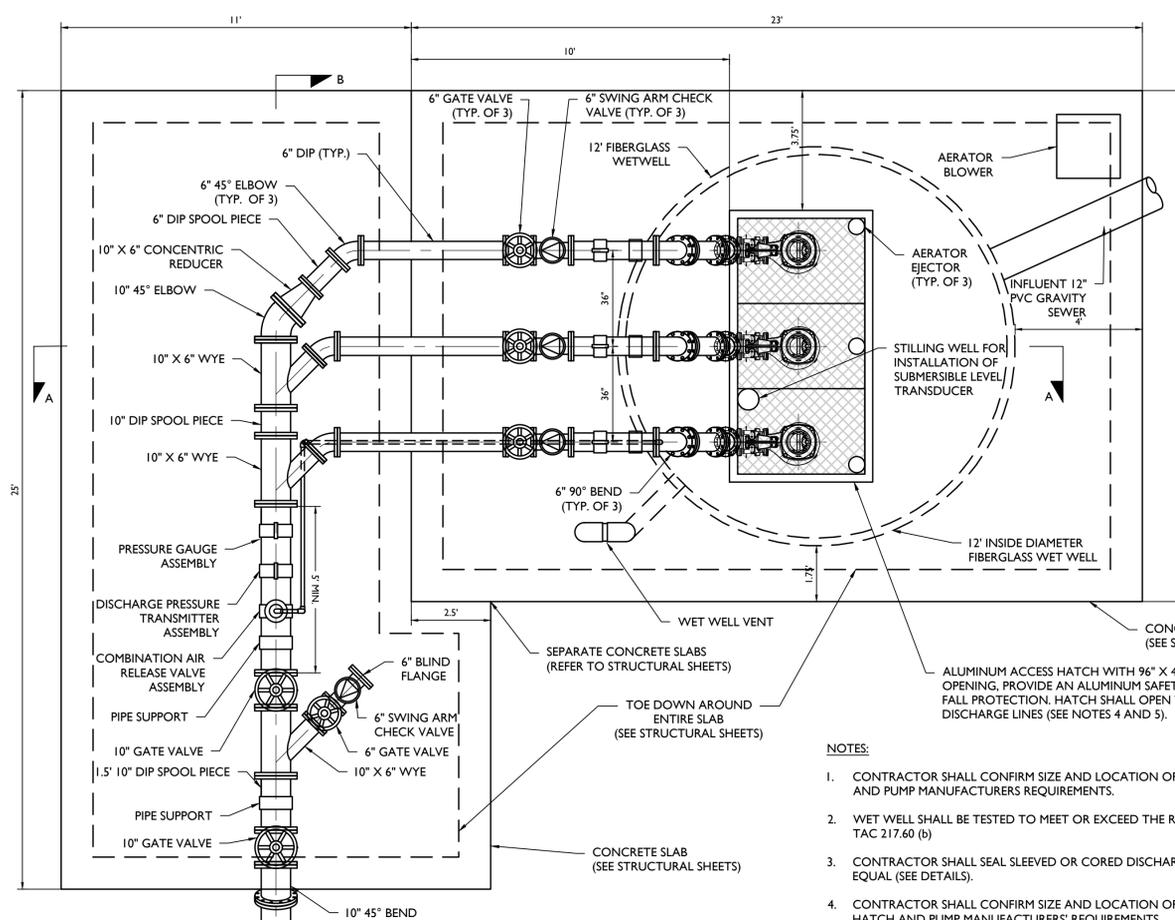
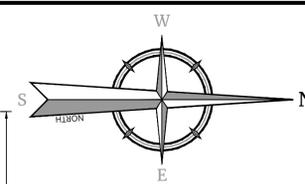
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Holmdel, NJ 07733
Phone: 732.383.1950
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| SCALE: | DATE: | DRAWN BY: | CHECKED BY: |
|----------|----------|-----------|-------------|
| AS SHOWN | 11/03/23 | DJI | JJM |

PROJECT NUMBER: 22010003A
DRAWING NAME: W-UTIL
SHEET TITLE: **LIFT STATION PLAN AND SECTIONS**

SHEET NUMBER: **LS-3**



WET WELL PLAN
SCALE: 3/8" = 1"

NOTES:

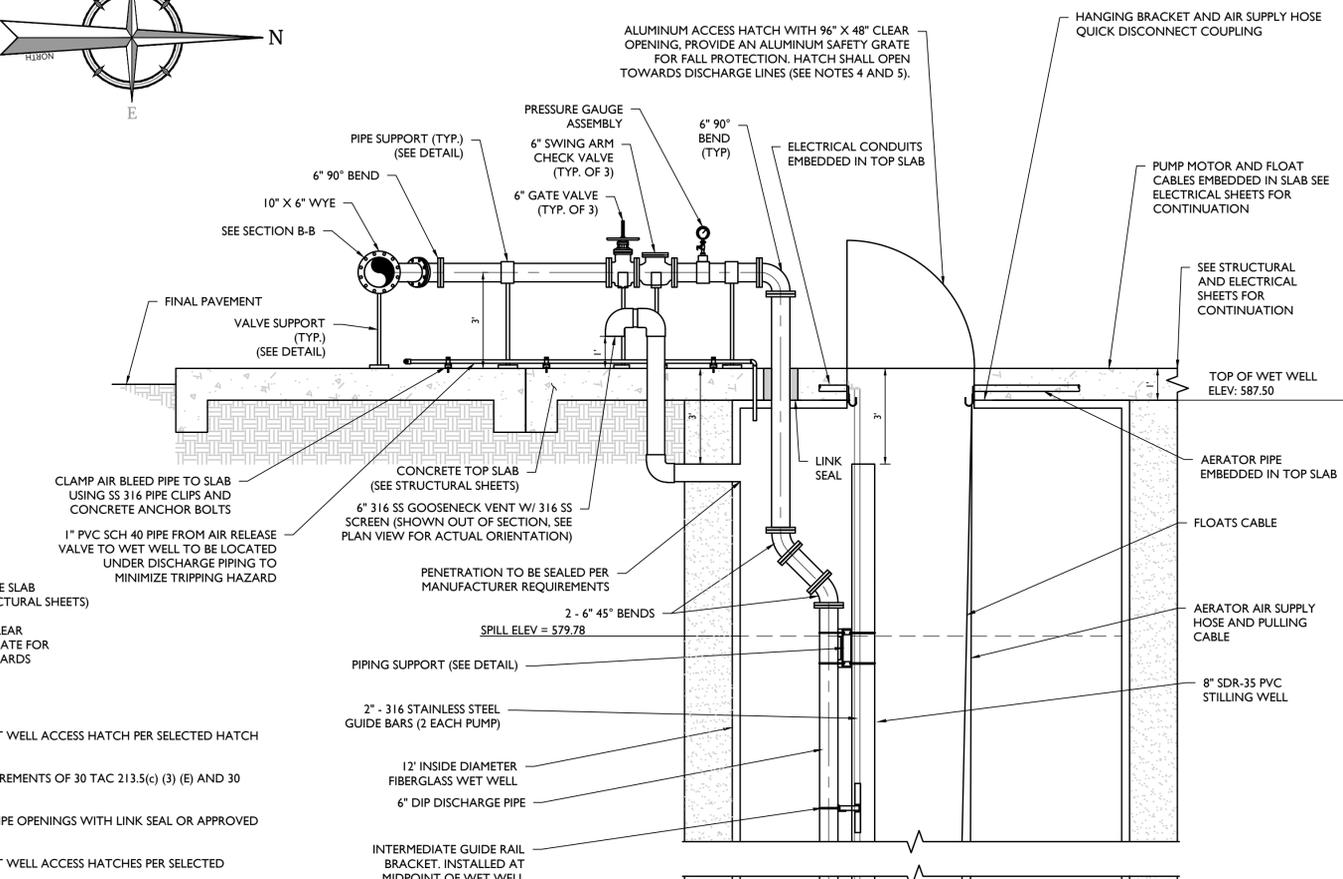
- CONTRACTOR SHALL CONFIRM SIZE AND LOCATION OF WET WELL ACCESS HATCH PER SELECTED HATCH AND PUMP MANUFACTURERS REQUIREMENTS.
- WET WELL SHALL BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC 213.5(c) (3) (E) AND 30 TAC 217.60 (b)
- CONTRACTOR SHALL SEAL SLEEVED OR CORED DISCHARGE PIPE OPENINGS WITH LINK SEAL OR APPROVED EQUAL (SEE DETAILS).
- CONTRACTOR SHALL CONFIRM SIZE AND LOCATION OF WET WELL ACCESS HATCHES PER SELECTED HATCH AND PUMP MANUFACTURERS REQUIREMENTS.
- PUMP ACCESS HATCH SHALL HAVE A MINIMUM CLEAR OPENING OF 96" X 48" AND SHALL OPEN TOWARDS THE DISCHARGE LINES (NO EXCEPTIONS). INSTALL WET WELL HATCH WITH ALUMINUM SAFETY GRATE WITH MINIMUM CLEAR OPENING OPENING OF 96" X 48". SAFETY GRATE SHALL NOT HAVE OPENINGS GREATER THAN 4" X 4". SAFETY GRATE SHALL BE FLUSH WITH WET WELL TOP SLAB. REFER TO ACCESS HATCH AND SAFETY GRATE DETAIL.
- ALL PUMP DISCHARGE PIPE AND FITTINGS WITHIN THE WET WELL EXCEPT 316 STAINLESS STEEL SHALL RECEIVE AFTER INSTALLATION A 100% SOLIDS COAL TAR EPOXY COATING SYSTEM IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- ALL PUMP DISCHARGE PIPE, VALVES AND FITTINGS OUTSIDE THE WET WELL, EXCEPT 316 STAINLESS STEEL AND PVC, SHALL RECEIVE AFTER INSTALLATION A 100% SOLIDS EPOXY COATING AND LINED INTERNALLY WITH A TOP COAT OF POLYURETHANE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. COLOR SHALL BE GRAY PANTONE #431-U.
- ALL FASTENERS, INSTALLED BOTH INSIDE AND OUTSIDE THE WET WELL, INCLUDING BUT NOT LIMITED TO ANCHORS, BOLTS, NUTS, WASHERS, CABLE GRIPS, LIFTING CHAINS, PULLING CABLES, GUIDE RAILS, SUPPORT CHANNELS, MOUNTING PLATES, BRACKETS, ETC. SHALL BE MADE OF 316 STAINLESS STEEL.
- DISCHARGE PIPE SUPPORT CHANNELS SHALL BE INSTALLED 10-FT ABOVE WET WELL BOTTOM AND BELOW TOP SLAB. AN ADDITIONAL SUPPORT CHANNEL SHALL BE ADDED AT THE MID POINT FOR SPANS BETWEEN SUPPORT CHANNELS GREATER THAN 20-FT.
- CONTRACTOR SHALL COORDINATE WITH THE PUMP MANUFACTURER TO CONFIRM PUMP DISCHARGE BASES, GUIDE RAIL SYSTEM AND ACCESS HATCHES ARE LOCATED SUCH THAT THE GUIDE RAILS ARE STRAIGHT AND THE SAFETY GRATE DOES NOT INTERFERE WHEN INSTALLING AND PULLING THE PUMPS.

SPILL ELEVATION NOTE
SPILL ELEVATION = 579.78 (AT LOWEST MANHOLE TOP ELEVATION)

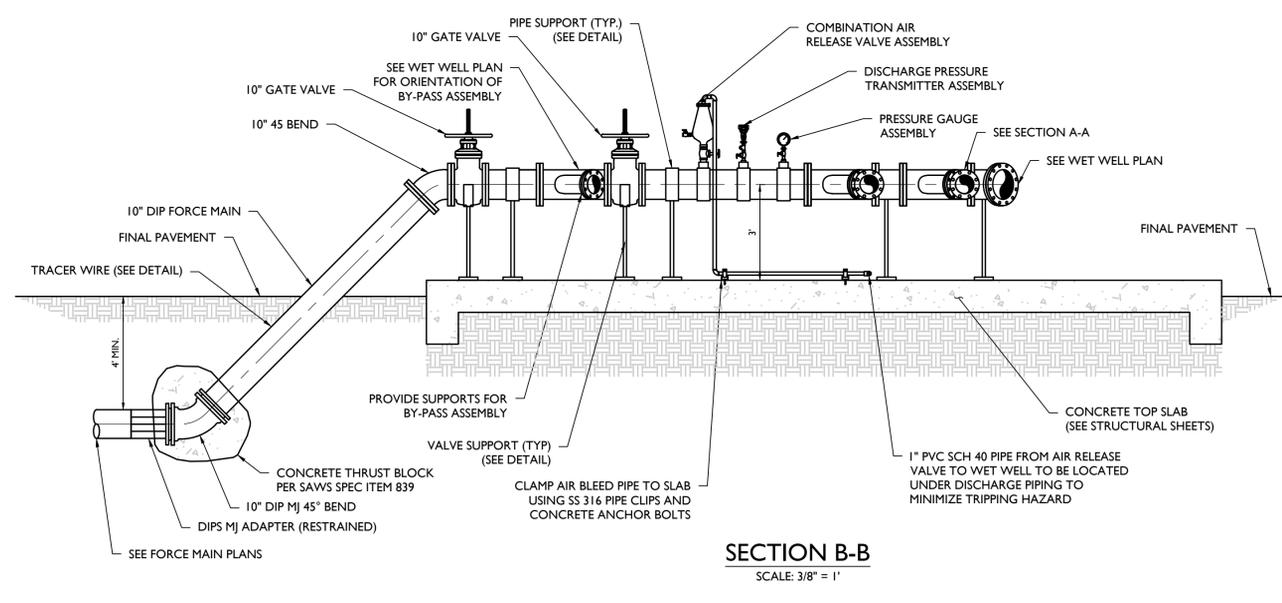
| PUMP INFORMATION | |
|--------------------|-------------------------|
| SERVICE | WASTEWATER LIFT STATION |
| TYPE | SUBMERSIBLE PUMPS |
| FLOW | 736 GPM |
| TDH | 61.40 |
| IMPELLER DIAMETER | 263 mm |
| MOTOR RATED POWER | 20 HP |
| VOLTAGE | 460 V |
| MOTOR SPEED | 1755 RPM |
| MANUFACTURER MODEL | NP 3153 HT 3- 463 |

| RISING LEVEL CYCLE | | |
|-----------------------|------------------------|-----------------------------|
| WATER LEVEL ELEVATION | ACTION | PUMP(S) IN OPERATION |
| 557.08 | PUMP OFF LEVEL | ALL PUMPS OFF |
| 559.18 | LEAD PUMP LEVEL | LEAD PUMP ON |
| 559.68 | LAG PUMP LEVEL | LEAD & LAG PUMP ON |
| 560.18 | STANDBY PUMP LEVEL | LEAD, LAG & STANDBY PUMP ON |
| 560.68 | HIGH WATER LEVEL ALARM | HIGH WATER ALARM SOUND |

| FALLING LEVEL CYCLE | | |
|-----------------------|---------------------|--|
| WATER LEVEL ELEVATION | ACTION | PUMP(S) IN OPERATION |
| 560.18 | STANDBY PUMP LEVEL | LEAD, LAG & STANDBY PUMP ON, HIGH LEVEL ALARM RESETS |
| 559.68 | LAG PUMP LEVEL | LEAD & LAG PUMP ON, STANDBY PUMP OFF |
| 559.18 | LEAD PUMP LEVEL | LEAD PUMP ON, LAG & STANDBY PUMP OFF |
| 557.08 | ALL PUMPS OFF LEVEL | ALL PUMPS OFF |

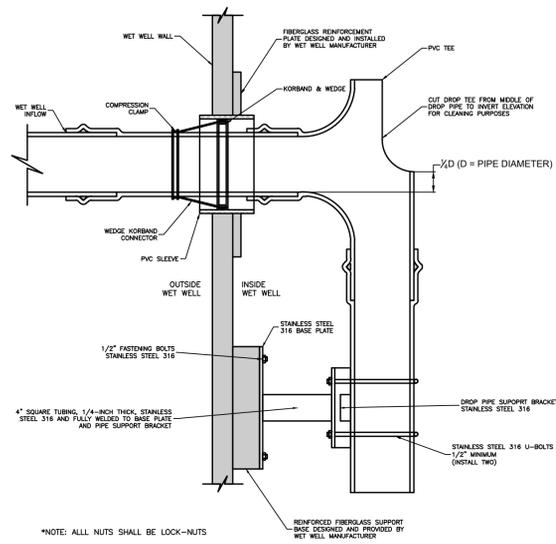


SECTION A-A
SCALE: 3/8" = 1"



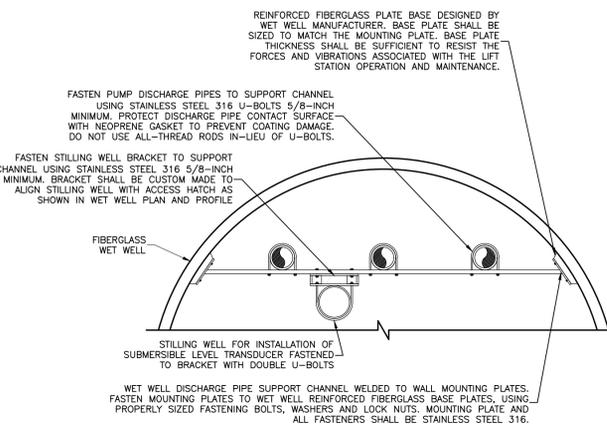
SECTION B-B
SCALE: 3/8" = 1"

DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC
ADDRESS: 1118 VINTAGE WAY
CITY: NEW BRAUNFELS STATE: TEXAS ZIP: 78132
PHONE #: (512) 923-9160
TOTAL LINEAR FOOTAGE OF PIPE: SAWS BLOCK MAP: N/A
TOTAL ACREAGE: 232.87
TOTAL EDU: 1,795
SAWS JOB NO.:



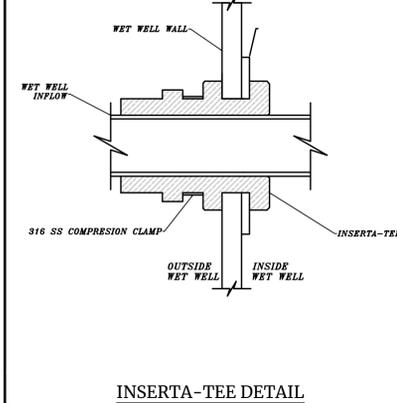
WET WELL INFLOW PENETRATION DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



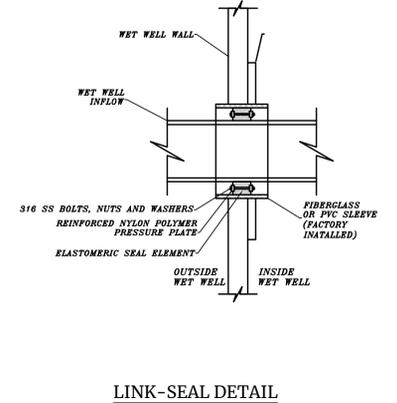
DISCHARGE PIPE SUPPORT DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



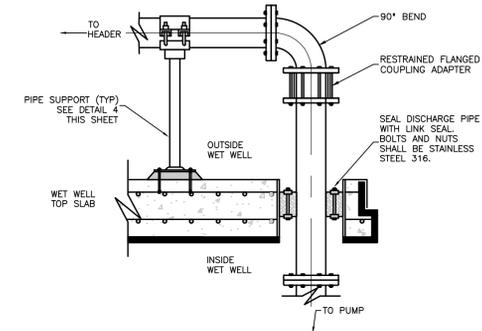
INSERTA-TEE DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



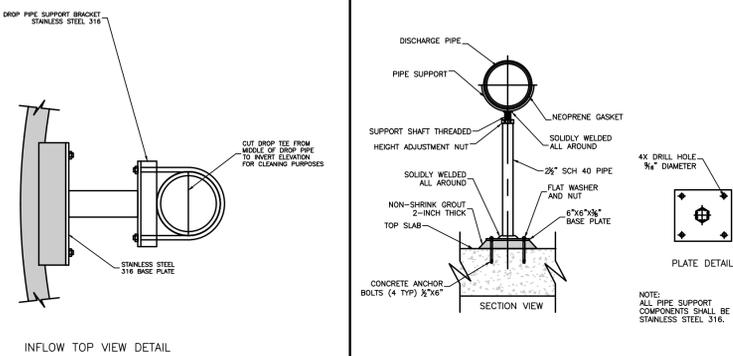
LINK-SEAL DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



DISCHARGE PIPE PENETRATION DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX

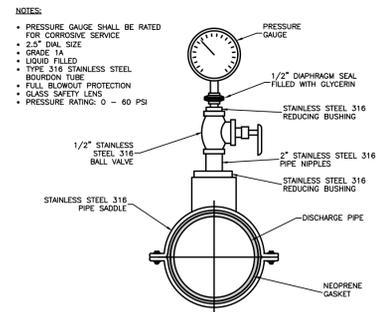


INFLOW TOP VIEW DETAIL

INFLOW TOP VIEW DETAIL

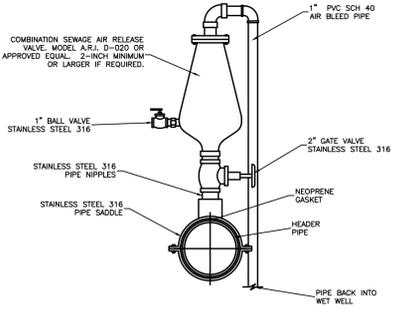
VALVE SUPPORT DETAIL

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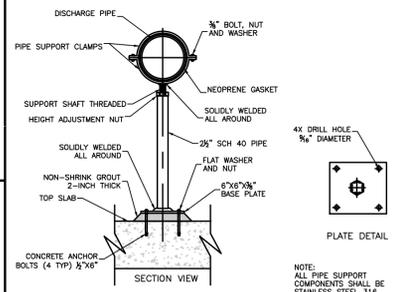
PRESSURE GAUGE INSTALLATION DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



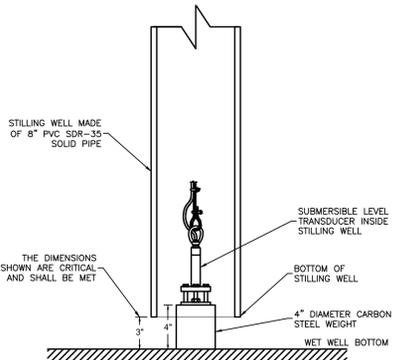
AIR/VACUUM RELEASE VALVE INSTALLATION DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



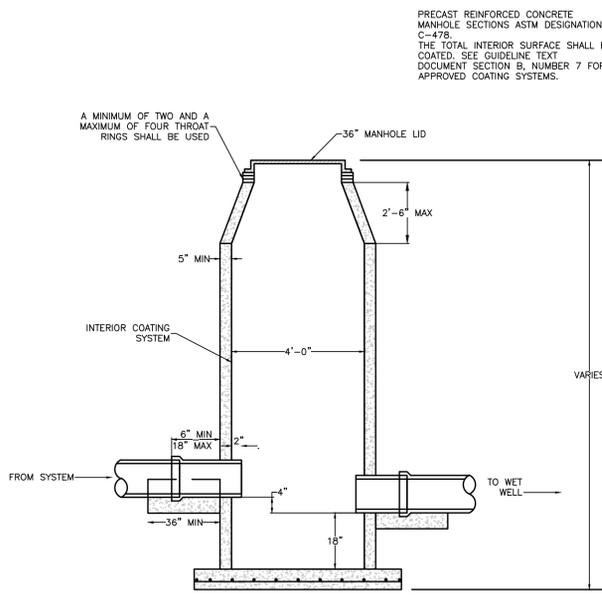
PIPE SUPPORT DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



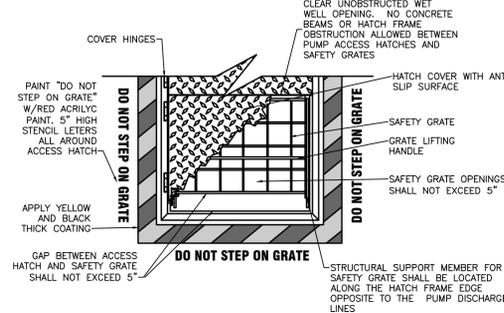
SUBMERSIBLE LEVEL TRANSDUCER INSTALLATION WITHIN STILLING WELL DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



LIFT STATION SITE MANHOLE (MH S-1) ADJACENT TO WET WELL DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX



ACCESS HATCH AND SAFETY GRATE DETAIL

NOT TO SCALE GNRL-DT15-STND-GRID XX/XX/XX

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| 2 | 4/19/24 | REVISED PER SAWS REVIEW COMMENTS DATED MARCH 22, 2024 |

Digitally signed by Jordan Volk
Texas Licensed Professional Engineer
License Number: 142341
COLLIERS ENGINEERING & DESIGN, INC.
T.X. TBPE REG. #: F-14909

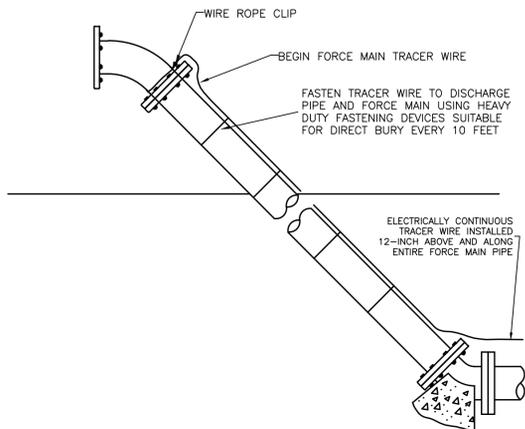
VIDA SAN ANTONIO LIFT STATION
FOR SOUTHSTAR AT VERANO, LLC
CITY OF SAN ANTONIO BEXAR COUNTY TEXAS

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101 Crawford's Corner Road, Suite 3400
Holmdel, NJ 07733
Phone: 732.383.1950
COLLIERS ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING

DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC
ADDRESS: 1118 VINTAGE WAY
CITY: NEW BRAUNFELS STATE: TEXAS ZIP: 78132
PHONE #: (512) 923-9160 FAX: N/A
TOTAL LINEAR FOOTAGE OF PIPE: TOTAL ACREAGE: 232.87
SAWS BLOCK MAP: N/A TOTAL EDU'S: 1,795
SAWS JOB NO.:

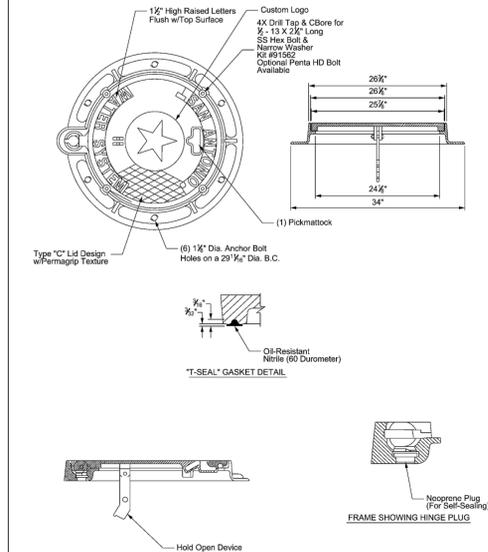
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PROJECT NUMBER: 22010003A DRAWING NAME: W-DT15
SHEET TITLE: CONSTRUCTION DETAILS
SHEET NUMBER: LS-4

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



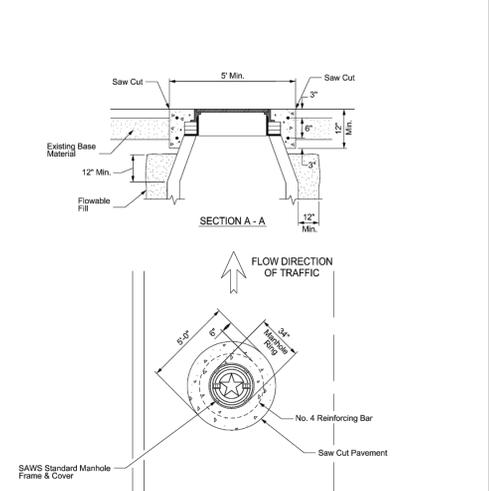
TRACER WIRE DETAIL

NOT TO SCALE GNRL-DTLS-STND-GRID XX/XX/XX



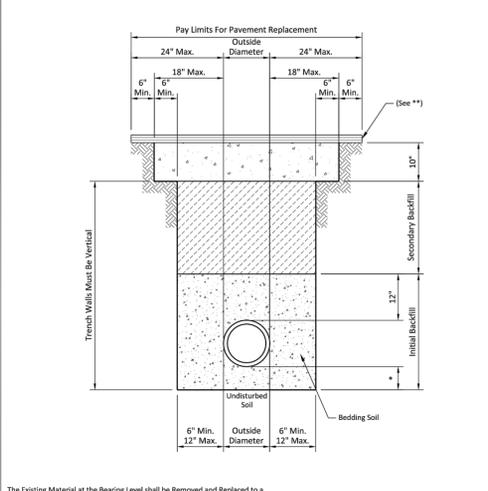
MANHOLE RING AND COVER DETAIL

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2008 AUG 2019
 DD 852-07 SHEET 4 OF 6



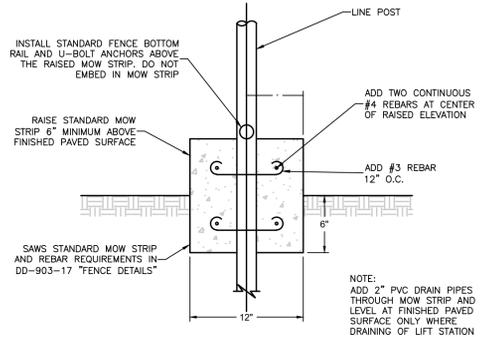
MANHOLE RING ENCASUREMENT DETAIL

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2008 AUG 2019
 DD 852-03 SHEET 1 OF 2



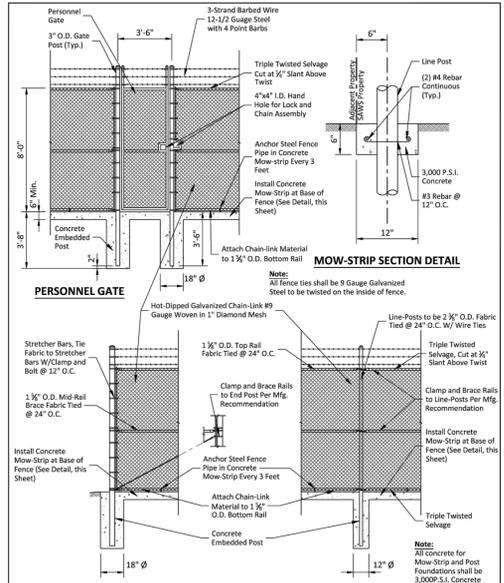
SANITARY SEWER PIPE LAID IN TRENCH

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2008 AUG 2019
 DD-804-01 SHEET 1 OF 1



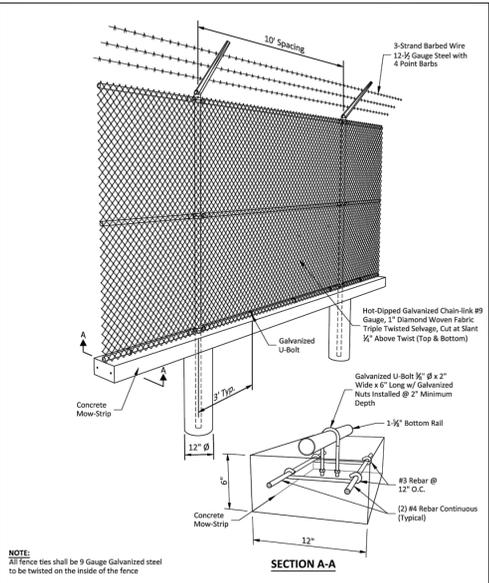
STORM RUNOFF PROTECTION DETAIL

NOT TO SCALE GNRL-DTLS-STND-GRID XX/XX/XX



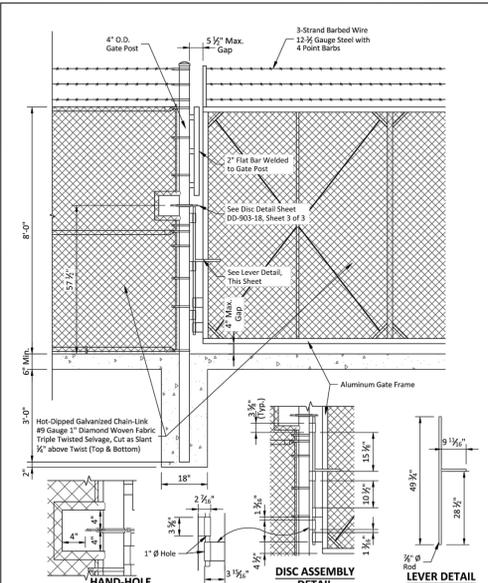
FENCE DETAILS

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2011 AUG 2019
 DD-903-17 SHEET 1 OF 2



HEAVY DUTY CANTILEVER SLIDE GATE

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2011 AUG 2019
 DD-903-17 SHEET 2 OF 2



DISC ASSEMBLY DETAIL

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 APPROVED MARCH 2011 AUG 2019
 DD-903-18 SHEET 2 OF 3

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 T.X. TPBE Reg. #: F-14509

VIDA SAN ANTONIO LIFT STATION
 FOR SOUTHSTAR AT VERANO, LLC
 CITY OF SAN ANTONIO
 BEXAR COUNTY
 TEXAS

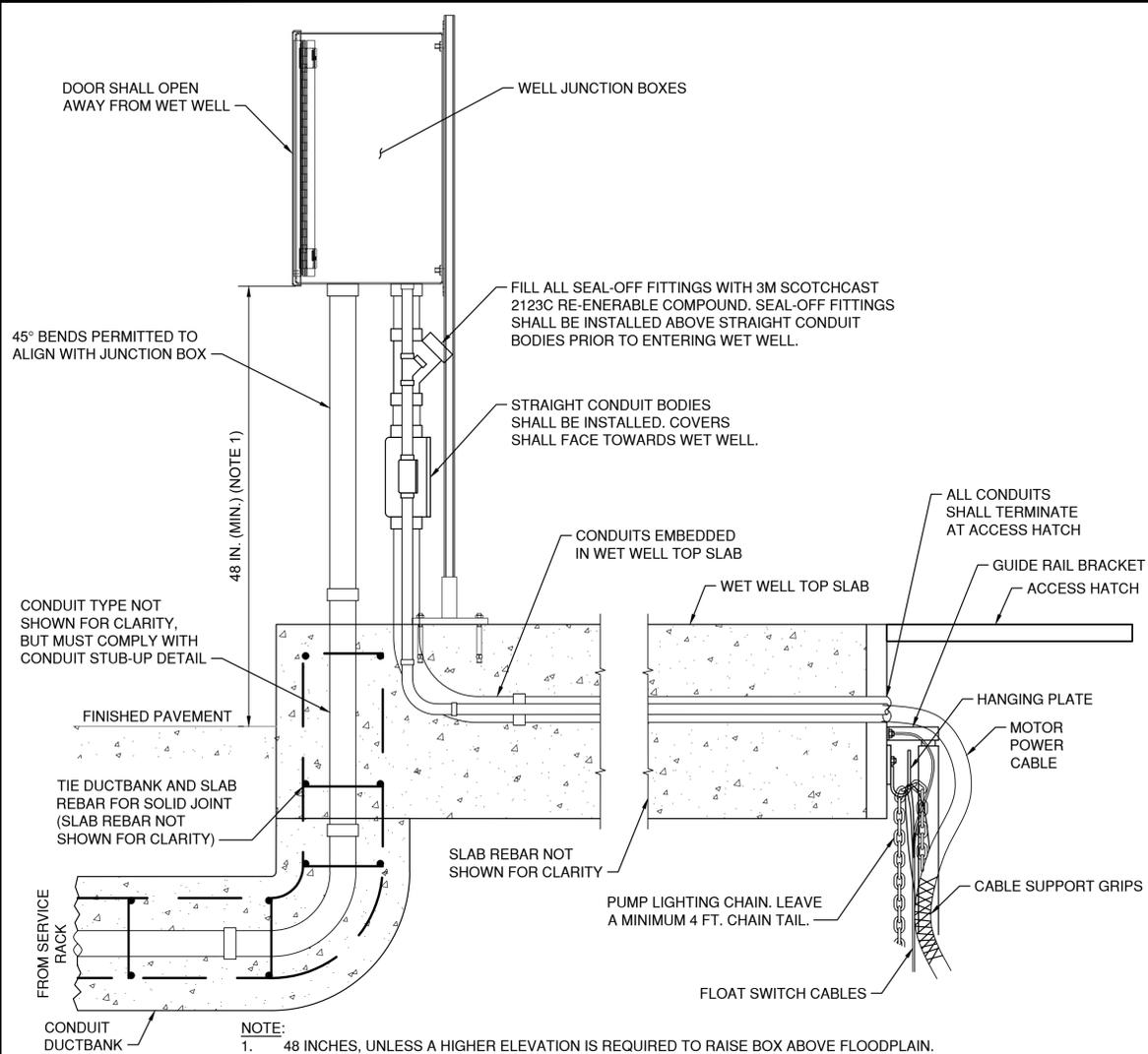
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| | | | |
|---------------------------|----------------------|---------------|-----------------|
| SCALE: AS SHOWN | DATE: 11/03/23 | DRAWN BY: DJI | CHECKED BY: JIM |
| PROJECT NUMBER: 22010003A | DRAWING NAME: W-DTLS | | |

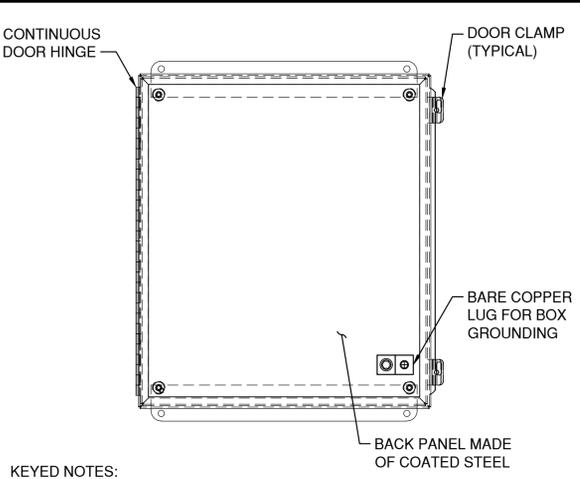
| |
|-----------------------------------|
| SHEET TITLE: CONSTRUCTION DETAILS |
| SHEET NUMBER: LS-5 |

| | |
|--|-----------------------|
| DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC | |
| ADDRESS: 1118 VINTAGE WAY | |
| CITY: NEW BRAUNFELS | STATE: TEXAS |
| PHONE #: (512) 923-9160 | ZIP: 78132 |
| TOTAL LINEAR FOOTAGE OF PIPE: | TOTAL ACREAGE: 232.87 |
| SAWS BLOCK MAP: N/A | TOTAL EDU'S: 1,795 |
| | SAWS JOB NO.: |

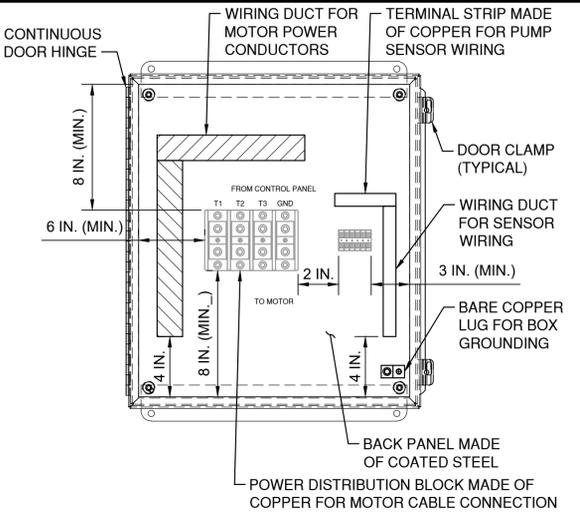
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



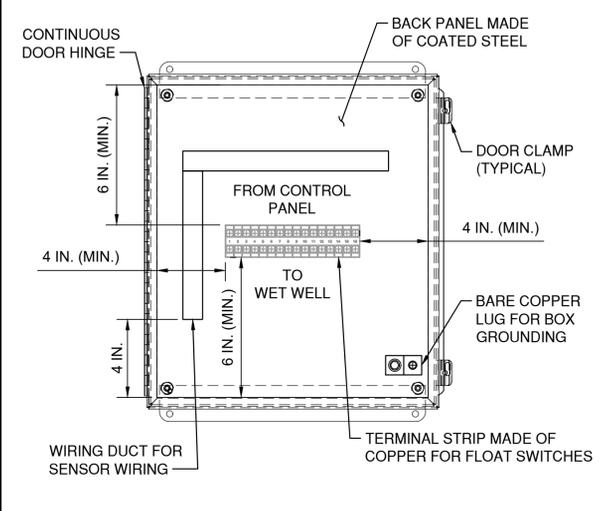
WET WELL JUNCTION BOX DETAIL
N.T.S.



ANALOG SIGNAL WIRING JUNCTION BOX DETAIL
N.T.S.



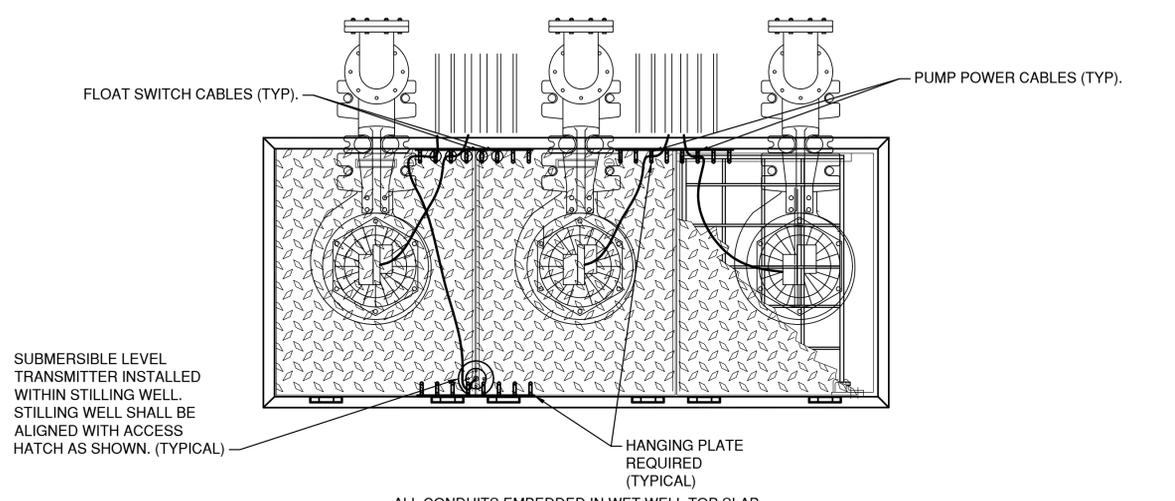
MOTOR JUNCTION BOX INTERNAL DETAIL
N.T.S.



FLOAT CONTROLS JUNCTION BOX INTERNAL DETAIL
N.T.S.

- KEYED NOTES:**
- WIRING DUCT FOR PUMP SENSOR WIRING.
- NOTES:**
1. THIS JUNCTION BOX DETAIL APPLIES TO ALL JUNCTION BOXES INSTALLED FOR ANALOG SIGNAL WIRING FOR INSTRUMENTATION AND CONTROL DEVICES SUCH AS SUBMERSIBLE LEVEL TRANSMITTERS, DISCHARGE PRESSURE TRANSMITTERS, OR ANY INSTRUMENTATION AND CONTROL DEVICE THAT IS INSTALLED BUT NOT SHOWN ON THESE STANDARD DRAWINGS.
 2. ANALOG SIGNAL CABLES SHALL BE CONTINUOUS AND WITHOUT SPLICES, FROM INSTRUMENT, THROUGH JUNCTION BOX, TO RESPECTIVE ANALOG I/O MODULE OR DEVICE. ANALOG SIGNAL CABLE SHALL BE LOOPED AND TIED IN A NEAT MANNER AND WITHOUT OVER BENDING.
 3. ANALOG SIGNAL WIRING SHALL NOT BE MIXED WITH ANY OTHER POWER, CONTROL OR SIGNAL WIRING.
 4. JUNCTION BOXES SHALL BE SIZED BASED ON THE SIZE, BENDING RADIUS, NUMBER OF LOOPS, AND TOTAL NUMBER OF ANALOG SIGNAL CABLES CONTAINED, BUT IN NO CASE SHALL THE INSTRUMENTATION AND CONTROL JUNCTION BOXES BE SMALLER THAN 16 IN. H. x 12 IN. W x 8 IN. D..
 5. ALL ALUMINUM CONDUITS SHALL BE PROVIDED WITH GROUNDING BUSHINGS AND SHALL BE GROUNDED.
 6. A DEDICATED GROUNDING CABLE SHALL BE INSTALLED TO GROUND THE JUNCTION BOX AND EACH CONDUIT BUSHINGS.

- KEYED NOTES:**
- WIRING DUCT FOR PUMP SENSOR WIRING.
 - ▨ WIRING DUCT FOR MOTOR POWER WIRING.
- NOTES:**
1. THIS JUNCTION BOX DETAIL APPLIES TO ALL JUNCTION BOXES INSTALLED TO CONNECT MOTORS SUCH AS PUMPS, BLOWERS, OR ANY SPECIAL MOTOR APPLICATION REQUIRED BUT NOT SHOWN ON THESE STANDARD DRAWINGS.
 2. JUNCTION BOXES SHALL BE SIZED TO MEET THE INTERNAL DIMENSIONS, BASED ON THE REQUIRED SIZE OF POWER DISTRIBUTION BLOCK, WIRING DUCTS AND NUMBER OF TERMINAL STRIPS FOR PUMP SENSOR SIGNALS, BUT IN NO CASE SHALL THE PUMP JUNCTION BOXES BE SMALLER THAN 20 IN. H. x 16 IN. W. x 8 IN. D.
 3. SHOWN INTERNAL DIMENSIONS SHALL BE MEASURED FROM EDGE OF BACK PANEL AND NOT FROM THE ENCLOSURE BODY.
 4. POWER DISTRIBUTION BLOCKS SHALL HAVE A SHORT CIRCUIT RATING THAT EXCEED THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE ENTRANCE.
 5. ALL ALUMINUM CONDUITS SHALL BE PROVIDED WITH GROUNDING BUSHINGS AND SHALL BE GROUNDED.



CONDUITS, HANGING PLATES, AND CONTROL DEVICES DETAIL
N.T.S.

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VIDA SAN ANTONIO LIFT STATION
FOR SOUTHSTAR AT VERANO, LLC
CITY OF SAN ANTONIO
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TEXAS

Colliers
Engineering & Design

HOLMDEL (Headquarters)
331 Newman Springs Road,
Suite 203
Red Bank, NJ 07701
Phone: 732.383.1950
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SHEET TITLE: ELECTRICAL DETAILS SHEET 4
SHEET NUMBER: E-504

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| 1 | 11/20/24 | REVISED PER SAWS REVIEW COMMENTS DATED DECEMBER 5, 2023 |
| 2 | 4/17/24 | REVISED PER SAWS REVIEW COMMENTS DATED MARCH 22, 2024 |



Richard Charles Maloney
TEXAS LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 82932
COLLIERS ENGINEERING & DESIGN, INC.
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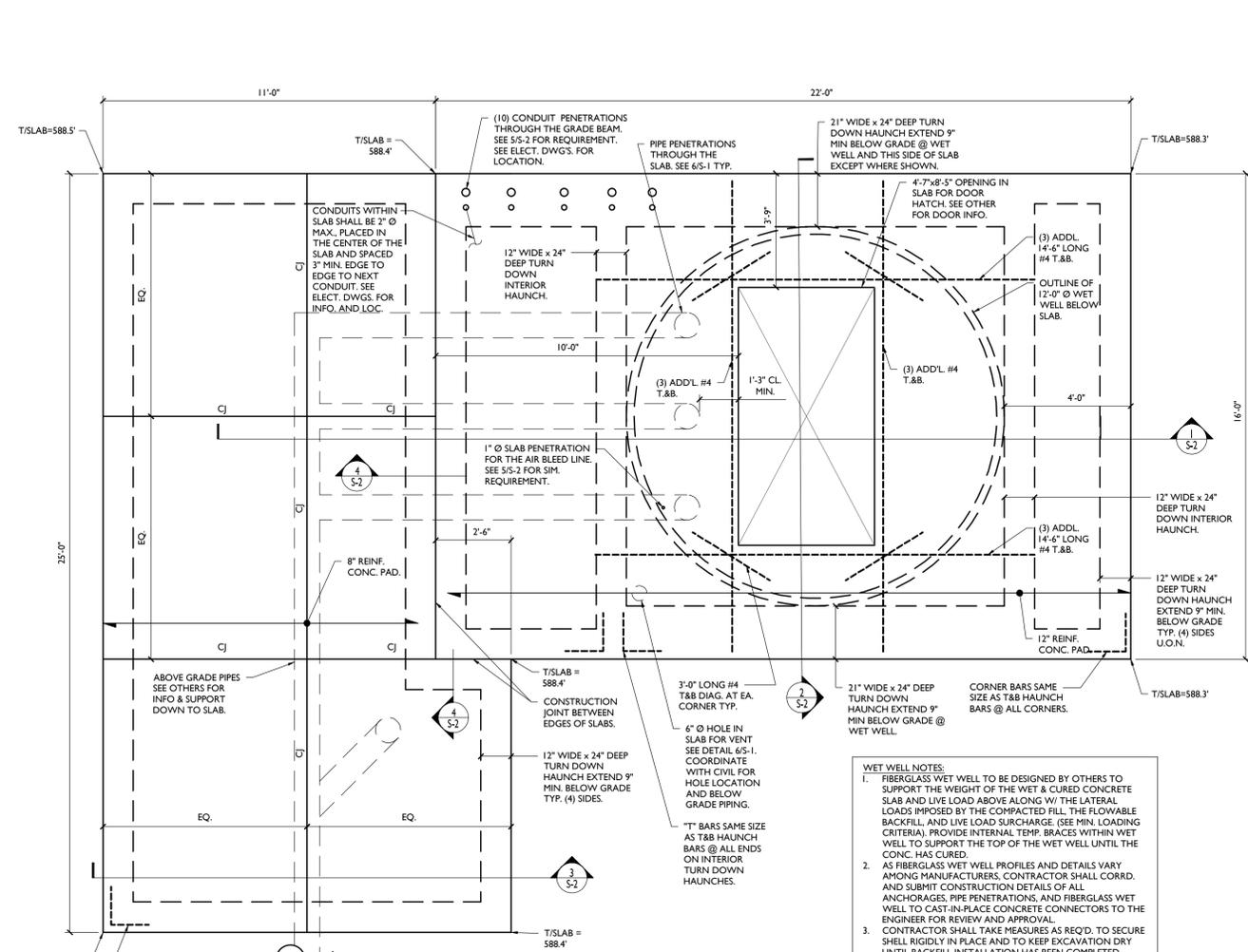
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HOLDMDEL (Headquarters)
101 Crawfords Corner Road,
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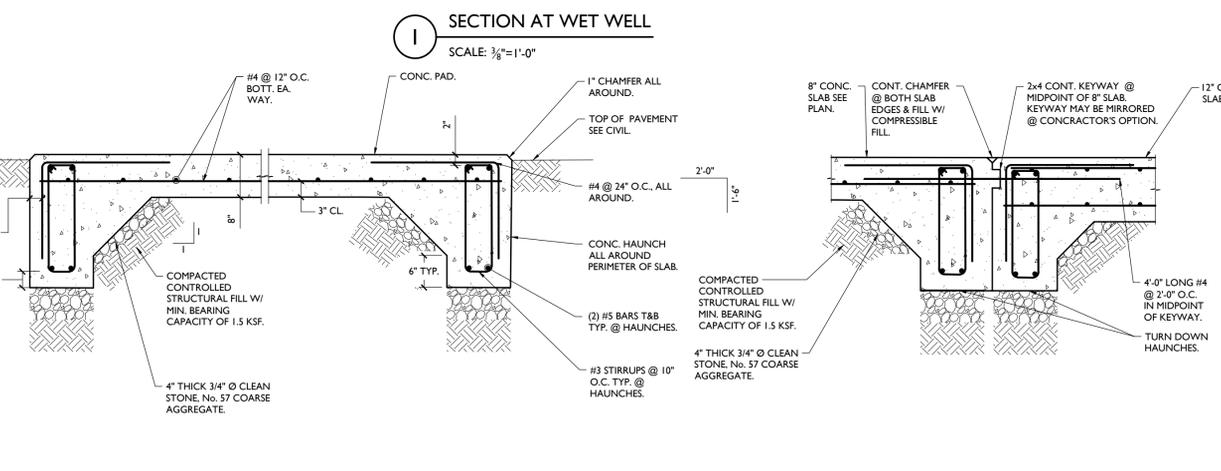
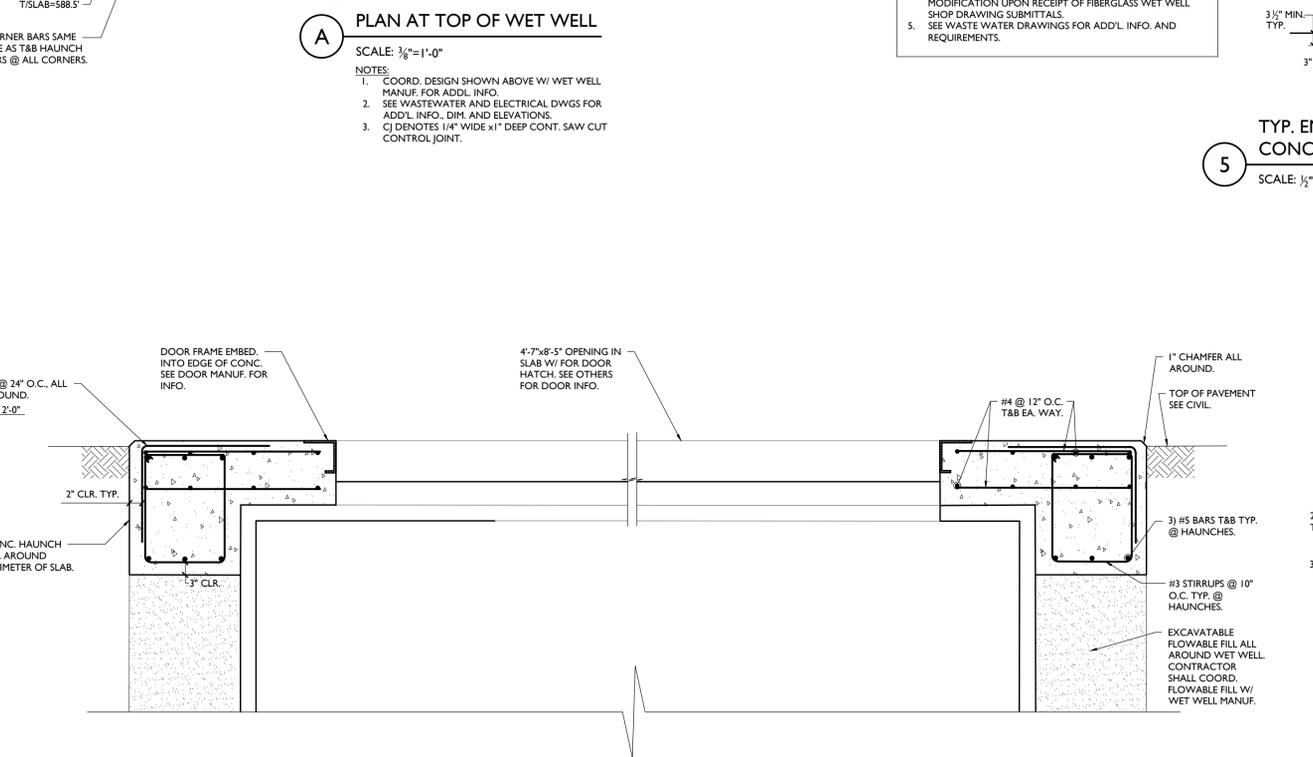
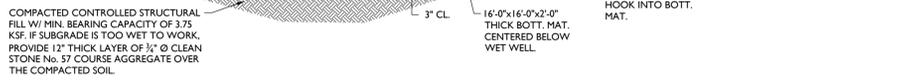
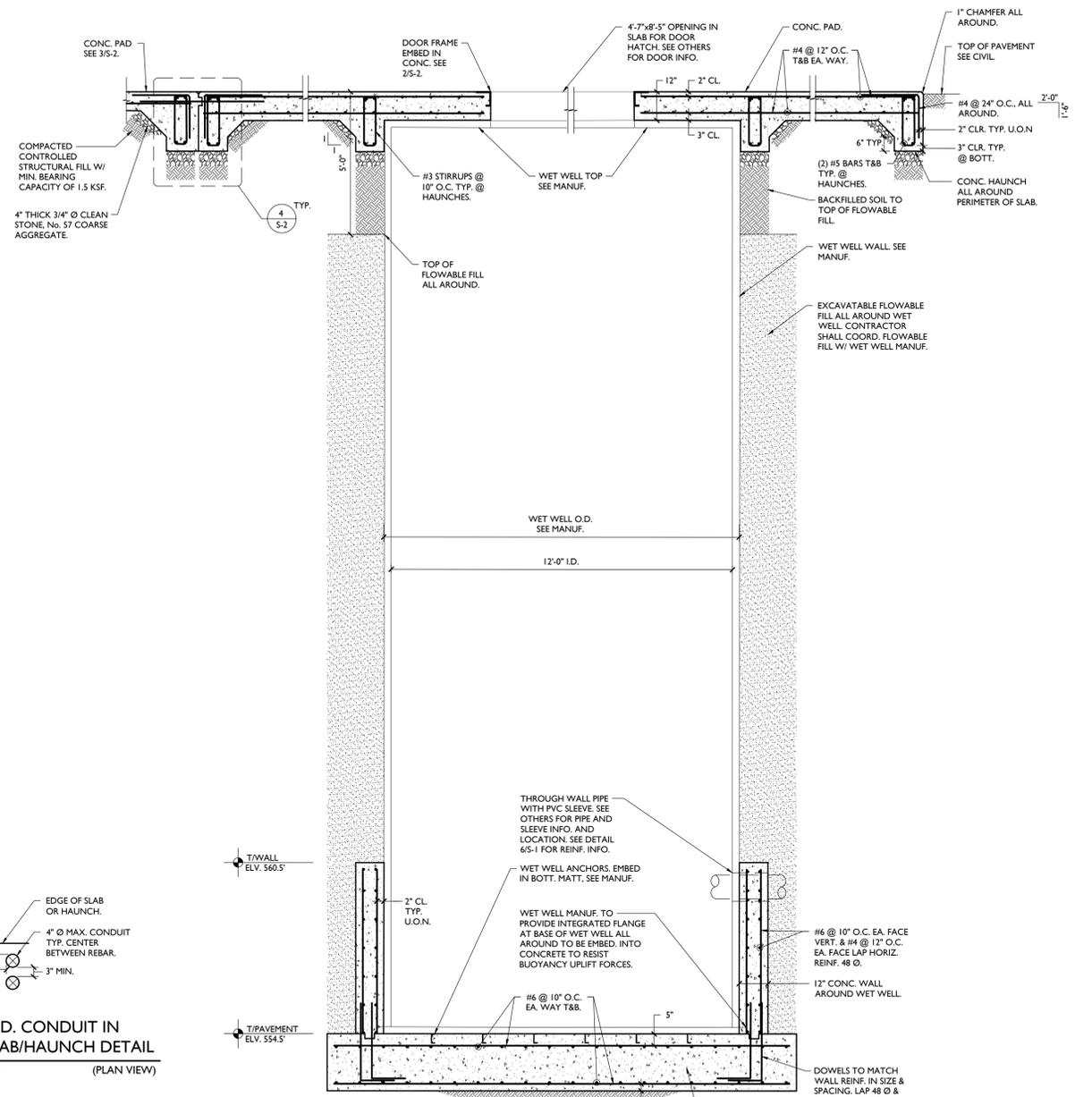
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FOUNDATION PLANS & DETAILS FOR WET WELL

SHEET NUMBER: S-2



- WET WELL NOTES:
- FIBERGLASS WET WELL TO BE DESIGNED BY OTHERS TO SUPPORT THE WEIGHT OF THE WET & CURED CONCRETE SLAB AND LIVE LOAD ABOVE ALONG W/ THE LATERAL LOADS IMPOSED BY THE COMPACTED FILL, THE FLOWABLE BACKFILL, AND LIVE LOAD SURCHARGE. (SEE MIN. LOADING CRITERIA). PROVIDE INTERNAL TEMP. BRACES WITHIN WET WELL TO SUPPORT THE TOP OF THE WET WELL UNTIL THE CONC. HAS CURED.
 - AS FIBERGLASS WET WELL PROFILES AND DETAILS VARY AMONG MANUFACTURERS, CONTRACTOR SHALL CORRD. AND SUBMIT CONSTRUCTION DETAILS OF ALL ANCHORAGES, PIPE PENETRATIONS, AND FIBERGLASS WET WELL TO CAST-IN-PLACE CONCRETE CONNECTORS TO THE ENGINEER FOR REVIEW AND APPROVAL.
 - CONTRACTOR SHALL TAKE MEASURES AS REQ'D. TO SECURE SHELL RIGIDLY IN PLACE AND TO KEEP EXCAVATION DRY UNTIL BACKFILL INSTALLATION HAS BEEN COMPLETED.
 - ALL STRUCTURAL CONSTRUCTION DETAILS ARE SUBJECT TO MODIFICATION UPON RECEIPT OF FIBERGLASS WET WELL SHOP DRAWING SUBMITTALS.
 - SEE WASTE WATER DRAWINGS FOR ADDL. INFO. AND REQUIREMENTS.



GENERAL NOTES:

ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS OF CONSTRUCTION, ADOPTED 2021 INTERNATIONAL BUILDING CODE, LOCAL BUILDING CODES, AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE BUILDING DEPARTMENT PRIOR TO THE START OF WORK.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

COORDINATE THE STRUCTURAL DRAWINGS WITH THE CIVIL AND ELECTRICAL DRAWINGS.

EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS AND SYSTEMS SHOWN ON PLANS ARE BASED ON LIMITED FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD-VERIFY ALL DETAILS, DIMENSIONS AND ASSUMPTIONS PRIOR TO ANY WORK AND COORDINATE WITH CIVIL AND ELECTRICAL DRAWINGS FOR FINAL CONSTRUCTION WHERE EXISTING CONDITIONS DIFFER FROM OR PRECLUDE THE EXECUTION OF THE OUTLINED DETAILS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED.

ALL DIMENSIONS AND ELEVATIONS FOR FINAL CONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND COORDINATED WITH CIVIL AND ELECTRICAL DRAWINGS. SHOP DRAWINGS SHALL BE BASED ON EXISTING CONDITIONS AND DIMENSIONS.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING AND BRACING REQUIRED FOR PLUMBNESS, STRUCTURAL STABILITY AND SAFETY WHENEVER REQUIRED TO SUPPORT LOADS AS MAY BE IMPOSED UPON THE STRUCTURE DURING CONSTRUCTION. BRACING AND SHORING AND SEQUENCES OF SUCH WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER LICENSED ENGINEER REGISTERED IN THE STATE OF TEXAS. ALL SUBMITTALS SHALL BEAR THE ENGINEER'S SEAL AND SIGNATURE.

CONTRACTOR TO PROTECT AT ALL TIMES EQUIPMENT, PIPES AND OTHER EXPOSED OR EMBEDDED ITEMS ON THE SITE AGAINST DAMAGE. COORDINATE WITH CIVIL AND ELECTRICAL DWGS AND REKOUTE AS REQUIRED.

SUBMIT SHOP DRAWINGS FOR ALL WORK. DO NOT PROCEED WITH ANY FABRICATION UNTIL THE SHOP DRAWINGS ARE FAVORABLY REVIEWED FOR ALL STRUCTURAL WORK, AND MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE STRUCTURAL WORK. SHOP DRAWINGS SHALL BE BASED ON FIELD VERIFIED CONDITIONS.

REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY STRUCTURAL ENGINEER OF RECORD SHALL BE TO REVIEW AND TAKE APPROPRIATE ACTION ON SHOP DRAWINGS FOR CONFORMANCE WITH THE STRUCTURAL CONSTRUCTION DOCUMENTS BUT NOT FOR ACCURACY OF DIMENSIONS AND QUANTITIES REQUIRED FOR PROPER CONSTRUCTION, WHICH ARE THE CONTRACTOR'S RESPONSIBILITY.

REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

SUBMIT PERIODIC INSPECTION REPORTS WITHIN ONE BUSINESS DAY AFTER RECEIPT BY THE CONTRACTOR TO ENGINEER DURING CONSTRUCTION. SUBMIT FINAL INSPECTION REPORT SUMMARY FOR EACH DIVISION OF WORK, CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER, THAT INSPECTIONS WERE PERFORMED AND THAT WORK WAS PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.

PROTECT ALL WORK SCHEDULED TO REMAIN AND IF DAMAGED REPAIR TO MATCH EXISTING. INSTALL ANY DUST PROOF PARTITIONS OR SCREENS REQUIRED TO PROTECT AREAS NOT BEING WORKED ON.

ANY ADDITIONAL WORK/FRAMING/FOUNDATIONS NOT SPECIFICALLY SHOWN OR CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS, THAT ARE REQUIRED TO COMPLETE THE INTENT OF THE WORK, SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS IF INCLUDED IN THE DRAWINGS/SPECIFICATIONS. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF SUCH OCCURRENCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL AREAS. PROVIDE ANY PROTECTIVE MEASURES DEEMED NECESSARY TO PROTECT PROPERTY AND PREVENT INJURY.

REMOVE ALL DEMOLITION MATERIALS FROM THE SITE PROMPTLY. TRANSPORT AND DISPOSE OF DEBRIS AS REQUIRED BY THE APPROPRIATE CODES.

Table with 2 columns: Criteria and Value. Includes LIVE LOAD (100 PSF), SNOW LOAD (5 PSF), WIND LOAD (115 MPH), and SEISMIC DATA (D).

EXCAVATION AND FOUNDATION NOTES:

ALL MATERIAL, FABRICATION, INSTALLATION, AND INSPECTION REQUIREMENTS RELATING TO THE FOUNDATIONS SHALL CONFORM TO THE TEXAS STATE AND LOCAL BUILDING CODES.

ALL STRUCTURAL WORK SHALL BE COORDINATED AND VERIFIED WITH THE ELECTRICAL AND PLUMBING REQUIREMENTS.

THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING ELEMENTS AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REMOVE, TRANSPORT, AND DISPOSE OF ALL DEBRIS PROMPTLY.

DEMOLITION SHALL BE DONE CAREFULLY. TAKE SPECIAL CARE NOT TO DAMAGE ANY EXISTING UNDERSLAB UTILITIES OR OTHER ELEMENTS NOT DESIGNATED FOR REMOVAL.

EXCAVATION SHALL BE PERFORMED SO AS NOT TO DISTURB EXISTING ADJACENT BUILDINGS, STREETS, AND UTILITY LINES. VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. HAND EXCAVATE AROUND AND RESUPPORT UTILITIES AS REQUIRED.

THE CONTRACTOR SHALL PROTECT ALL EXCAVATIONS FROM FLOODING AND EXISTING WATER TABLE AND PROVIDE CONTINUOUS PUMPING AS REQUIRED FOR PERFORMANCE OF WORK. THE DEPTH OF EXCAVATION SHALL NOT BE CARRIED DEEPER THAN SPECIFIED IN THE CONTRACT DOCUMENTS WITHOUT THE ENGINEER OF RECORD'S CONSENT.

THE SUBGRADE FOR FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR OR INSPECTION AGENCY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE. THE INSPECTOR OR AGENCY SHALL BE ACCEPTABLE TO THE ENGINEER AND OWNER AND PRODUCE REPORTS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS WHICH SHALL BE SUBMITTED TO THE ENGINEER OUTLINING WORK PERFORMED AND TEST RESULTS.

FOOTING SUBGRADES SHOULD BE THOROUGHLY CLEARED OF ALL MUD, DEBRIS AND LOOSE MATERIAL PRIOR TO THE PLACEMENT OF CONCRETE OR CRUSHED STONE.

THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO CONTROL ICE, FROST, SURFACE AND SUBSURFACE WATER SO THAT THE FOUNDATION WORK IS PERFORMED ON DRY SUBGRADE.

THE CONCRETE FOR EACH FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.

ALL UNDERPINNING, SHEETING, SHORING OR OTHER SIMILAR CONSTRUCTION REQUIRED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE SUBJECT TO INSPECTIONS AS REQUIRED BY THE LOCAL BUILDING CODE. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PROVIDE ALL NECESSARY DESIGNS, REQUIRED INSPECTIONS AND SUBMITTALS CONFORMING TO THE LOCAL BUILDING CODE.

DO NOT PLACE CONCRETE WITHOUT FAVORABLY REVIEWED STRUCTURAL SHOP DRAWINGS AND MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE CONCRETE WORK.

THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND SETTLEMENT (HORIZONTAL AND VERTICAL) OF EXISTING OR NEW CONSTRUCTION, INSIDE OR OUTSIDE THE PROJECT LIMITS.

NEW EXCAVATION SHALL NOT UNDERMINE NOR DISTURB ANY EXISTING ADJACENT FOOTINGS. NEW FOOTINGS SHALL BE SUPPORTED IN A MANNER TO MAINTAIN AN EXCAVATION SLOPE OF ONE VERTICAL TO TWO HORIZONTAL BETWEEN THE BOTTOM OF FOOTINGS AND EXCAVATION.

ALL FILL REQUIRED BELOW ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 8" LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D698 AND D-1557. REMOVE UNSUITABLE FILL AND REPLACE WITH CONTROLLED FILL AS REQUIRED FOR SOUND PLACEMENT OF FOUNDATIONS. NEW CONTROLLED FILL SHALL BE CRUSHED STONE, RECYCLED CONCRETE AGGREGATE OR GRANULAR SAND AND GRAVEL WITH LESS THAN 35% PASSING THE #200 SIEVE.

FILL AROUND WET WELL SHALL BE EXCAVATABLE FLOWABLE FILL. FILL SHALL BE PLACED IN A UNIFORM BALANCED MANNER. FILL SHALL MEET THE REQUIREMENTS OF THE TEXAS DEPARTMENT OF TRANSPORTATION ITEM 401. FLOWABLE FILL (80 PSI TO 200PSI MAX.) UP TO APPROXIMATELY 5'-0" BELOW GRADE.

FOUNDATION DESIGN MAY REQUIRE MODIFICATION AFTER EXISTING SOIL BEARING CAPACITY AND SUBSURFACE CONDITIONS HAVE BEEN FIELD VERIFIED BY THE GEOTECHNICAL ENGINEER.

SOIL SUPPORTED AT GRADE SLABS AND PADS SHALL BE FOUNDED UPON UNDISTURBED NATURAL SUBGRADE (OR CONTROLLED COMPACTED FILL) WITH A MINIMUM BEARING CAPACITY OF 1.5 KIPS PER SQUARE FOOT. SOIL SUPPORTED WET WELL BASE MAT AND DRILLED PIERS SHALL BE FOUNDED UPON UNDISTURBED NATURAL SUBGRADE (OR CONTROLLED COMPACTED FILL) WITH A MINIMUM BEARING CAPACITY OF 3.75 KIPS PER SQUARE FOOT. FINAL BEARING CAPACITY SHALL BE FIELD VERIFIED AND APPROVED BY THE INSPECTOR OR INSPECTION AGENCY. THE BOTTOM OF THE FOOTING ELEVATIONS AND BEARING CAPACITIES AS SHOWN ON THE DRAWINGS ARE ESTIMATED AND WILL REQUIRE VERIFICATION. FINAL EXACT ELEVATIONS AND BEARING CAPACITIES SHALL BE FIELD DETERMINED AND VERIFIED BY THE INSPECTOR OR INSPECTION AGENCY.

THE PERIMETER OF THE GENERAL EXCAVATION SHALL BE RETAINED BY A TEMPORARY SOIL/ROCK RETENTION SYSTEM. THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF SUCH A SYSTEM (WHERE REQUIRED) SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL/ROCK RETENTION SYSTEM, IS THE RESPONSIBILITY OF THE CONTRACTOR.

ALL PERIMETER CONCRETE WALLS SHALL REMAIN LATERALLY BRACED UNTIL THE CONCRETE HAS REACHED ITS 28 DAY STRENGTH. NO BACKFILLING SHALL BE PERFORMED AGAINST ANY UNBRACED WALLS OR WALLS THAT HAVE NOT REACHED THE CONCRETES 28 DAY COMPRESSIVE STRENGTH.

THE CONTRACTOR SHALL COORDINATE ALL ELEMENTS OF THE SOIL/ROCK RETENTION SYSTEM WITH ALL ELEMENTS OF THE PERMANENT BUILDING.

ALL EXCAVATION SHALL BE BASED ON ENGINEERING DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS AND RETAINED BY THE CONTRACTOR. THE DRAWINGS SHALL INCLUDE PLANS AND SECTIONS OF EXCAVATION SEQUENCES. THE EXCAVATION SEQUENCES SHALL BE CONTROLLED TO MATCH THE REQUIREMENTS OF THE DESIGN OF THE SOIL RETENTION SYSTEM.

THE GENERAL EXCAVATION SHALL CONSIST OF EXCAVATING AND REMOVING THE EXISTING SURFICIAL FILL MATERIALS TO REACH THE DESIRED SUBGRADE LEVEL. THE EXPOSED SUBGRADE SHOULD BE PROTECTED AND COMPACTED TO A FIRM AND UNYIELDING CONSISTENCY. THE EXCAVATION FOR FOOTINGS, PITS, ETC. SHALL BE EXCAVATED ON AN INDIVIDUAL, LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE LEVEL. EACH EXCAVATION SHALL BE A TRIM, LEVEL SURFACE.

THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MATSHEET COVERINGS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOWIKES.

CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY THE SUBGRADE IS APPROVED BY THE INSPECTOR OR INSPECTION AGENCY.

UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS.

A GEOTECHNICAL INVESTIGATION REPORT HAS BEEN PREPARED BY INTEC DATED APRIL 28, 2023. THE CONTENTS OF THIS REPORT ARE PART OF THE CONTRACT DOCUMENTS AND SHALL BE PART OF THE BID DOCUMENTS.

IF DURING EXCAVATION, CONDITIONS SUCH AS ABUNDANT GRAVEL, FILL MATERIAL, SAND SEAMS, OR SOILS OTHER THAN THOSE REFERENCED IN THE GEOTECHNICAL REPORT ARE DISCOVERED, CONTRACTOR TO NOTIFY ENGINEER.

UNDERLYING CLAY BELOW EQUIPMENT PAD, ELECTRICAL RACK CANOPY PAD, LIGHT POLE FOOTING, ANTENNA TOWER FOOTING, AND WET WELL TOP SLAB SHALL BE REMOVED TO A DEPTH OF 5'-0" ± BELOW TOP OF GRADE AND REPLACED WITH COMPACTED SELECT FILL. THE COMPACTED SELECT FILL SHALL EXTEND TO MINIMUM OF 3'-0" OUTSIDE THE PERIMETER OF EACH PAD, SLAB, AND FOOTING, AND SHALL BE COMPACTED IN 6 INCH LIFTS. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

CONTRACTOR TO BE RESPONSIBLE FOR ALL DEWATER OPERATIONS AS REQUIRED TO PLACE WET WELL FOUNDATION.

STRUCTURAL CONCRETE NOTES:

ALL WORK SHALL COMPLY TO THE ACI CODE, LATEST EDITION, AS AMENDED BY THE STATE OF TEXAS AND LOCAL BUILDING CODES.

ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WEIGHING 145 PCF HAVING A COMPRESSIVE STRENGTH 4,500 PSI AT 28 DAYS AND A MAXIMUM WATER-CEMENT RATIO OF 0.45.

STRUCTURAL CONCRETE SHALL CONTAIN A WATER REDUCING, PLASTICIZING ADMIXTURE. ALL CONCRETE WITH 6% +/- 1.5% SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE.

ALL CONCRETE WORK, MIXES, INSPECTIONS, AND FORMWORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE AND ACI CODES.

CONFORM TO ACI HOT AND COLD WEATHER CONCRETING.

CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DESIGN OF CONCRETE MIXES AND FOR MAINTAINING STRENGTH AND PROPER SLUMP DURING CONSTRUCTION. CONCRETE MIXES SHALL BE DESIGNED IN ACCORDANCE WITH METHOD DESCRIBED IN THE GOVERNING CODE. THE MIX DESIGNS BEARING THE NAME OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE MIXES HAVE BEEN APPROVED BY THE ENGINEER. SUBMIT THE PROPOSED CONCRETE MIX AND CYLINDER BREAKS FOR REVIEW BY ENGINEER OF RECORD.

ALL FORMWORK SHALL BE CONSTRUCTED SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED WITHIN TOLERANCE LIMITS OF ACI 117.

REINFORCING BARS SHALL BE DEFORMED STEEL BARS COMPLYING WITH ASTM A615, GRADE 60.

ALL REINFORCEMENT TO BE CONTINUOUS U.O.N.

ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED. PLACING OF CONCRETE SHALL NOT START UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED BY THE INSPECTOR OR INSPECTION AGENCY.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

REINFORCING BARS, WELDED WIRE FABRIC, TIE WIRES AND ACCESSORIES SHALL BE EPOXY COATED FOR CONCRETE WORKS THAT ARE EXPOSED TO WEATHER OR UNDER WATER IN ACCORDANCE WITH ASTM A-773. DAMAGED EPOXY COATINGS ON REINFORCING MATERIALS SHALL BE TOUCHED UP TO THE ORIGINAL COATING STANDARDS.

SUBMIT DETAIL DRAWINGS, AFTER COORDINATION WITH LATEST CIVIL AND ELECTRICAL DRAWINGS, SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CURBS, SLAB DEPRESSION, SLEEVES, OPENINGS, ETC.

REINFORCING SPLICES SHALL COMPLY WITH ACI 318, BUT SHALL IN NO CASE BE LESS THAN 40 DIAMETERS, UNLESS OTHERWISE NOTED.

MECHANICAL SPlicing IF REQUIRED, SHALL HAVE THE BARS CONNECTED TO DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. IF MECHANICAL SPlicing IS USED, SUBMIT PRODUCT LITERATURE DESCRIBING AND METHOD OF INSTALLATION.

WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING AND LAP A MIN. OF 480 (UNLESS OTHERWISE NOTED).

DO NOT PLACE CONCRETE WITHOUT FAVORABLY REVIEWED SHOP DRAWINGS.

ALL CONSTRUCTION JOINTS SHALL BE CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.

NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

CONCRETE SLABS SHALL HAVE A MONOLITHIC FINISH AND SHALL BE SCREEDDED, COMPACTED BY ROLLING OR TAMPING, FLOATED OFF AND GRADED AS REQUIRED. AFTER SUFFICIENT HARDENING SLAB SHALL BE PROTECTED AND CURED. START CURING AS SOON AS POSSIBLE WITHOUT MARKING FINISH. COVER SLABS WITH REINFORCED PAPER AS REQUIRED. KEEP SURFACE CONTINUOUSLY MOIST FOR SEVEN DAYS OR USE A CURING COMPOUND.

CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO ACI 318 REQUIREMENTS. CONDUITS AND PIPES SHALL NOT BE LARGER THAN 1/3 OF THE SLAB/WALL THICKNESS AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER. COORDINATE WITH CIVIL AND ELECTRICAL DRAWINGS.

DRY PACK SHALL BE ONE PART SAND, ONE PART CEMENT WITH ENOUGH WATER FOR PLACEMENT.

ALL BEARING GROUT SHALL BE NON-SHRINK, NONMETALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.

WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.

PATCH CONCRETE WHERE REQUIRED. PATCHING CONCRETE SHALL BE SIKA TOP 122 OR 123 WITH EPOXIED PINS WHERE REQUIRED BY MANUFACTURER.



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VIDA SAN ANTONIO LIFT STATION PLANS FOR SOUTHSTAR AT VERANO, LLC

CITY OF SAN ANTONIO BEXAR COUNTY TEXAS

HOLMDEL (Headquarters) 101 Crawford's Corner Road, Suite 3400 Holmdel, NJ 07733 Phone: 732.383.1950 COLLIER'S ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING

Table with 4 columns: SCALE, DATE, DRAWN BY, CHECKED BY. Values: AS SHOWN, 11/04/2023, AD, WD.

SHEET TITLE: SITE ELEMENT FOUNDATION NOTES

SHEET NUMBER: S-3