

SITE DEVELOPMENT PLANS FOR Harris Teeter Fuel

STORE #175 KILL DEVIL HILLS
2006 S CROATAN HIGHWAY
KILL DEVIL HILLS, DARE COUNTY, NORTH CAROLINA 27948

UTILITY AND GOVERNING AGENCIES CONTACT LIST:

PLANNING / ZONING DEPARTMENT
TOWN OF KILL DEVIL HILLS PLANNING AND INSPECTIONS
102 TOWN HALL DRIVE
P.O. BOX 1719
KILL DEVIL HILLS, NC 27948
(252) 449-5318 - PLANNING

TELEPHONE
CENTURYLINK
(855)971-6216 TEL

ENGINEERING
AMERICAN ENGINEERING
448 VIKING DRIVE, SUITE 170
VIRGINIA BEACH, VA 23452
(757) 468-6800 TEL

CABLE TELEVISION / INTERNET
SPECTRUM
(888)692-8635 TEL

CONTACT: PETE BURKHIMER, PE

EROSION CONTROL
NCDENR
DIVISION OF ENERGY, MINERAL AND LAND RESOURCES
1612 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699
(919)707-9200 TEL
(919)715-8801 FAX

WATER
TOWN OF KILL DEVIL HILLS
102 TOWN HALL DRIVE
P.O. BOX 1719
KILL DEVIL HILL, NC 27948
(252) 480 4080 TEL

FIRE MARSHAL
KILL DEVIL HILLS FIRE DEPARTMENT
STATION 14
1634 NORTH CROATAN HIGHWAY
P.O. BOX 1719
KILL DEVIL HILLS, NC 27948
(252) 480-4060 TEL
(252) 480-4069 FAX

SANITARY SEWER
KDHWWTP, LLC
P.O. BOX 3629
KILL DEVIL HILLS, NC 27948
(252) 255-8026 TEL

ELECTRIC
DOMINION ENERGY
5300 THE WOODS ROAD
KITTY HAWK, NC 27949
(866)366-4357

DEPARTMENT OF TRANSPORTATION
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
113 AIRPORT DRIVE
EDENTON, NC 27932
(252) 482-1862 TEL

UNDERGROUND STORAGE TANK
NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL
QUALITY - UNDERGROUND STORAGE TANK SECTION
217 WEST JONES STREET
RALEIGH, NC 27603
(919)707-8163

HARRIS TEETER I.S. DEPARTMENT
GARY CROCKER
NETWORKING MANAGER I.S. DEPARTMENT
GCROCKER@HARRISTEETER.COM
(704) 844-3990



SITE LOCATION MAP
NOT TO SCALE

NOTES:

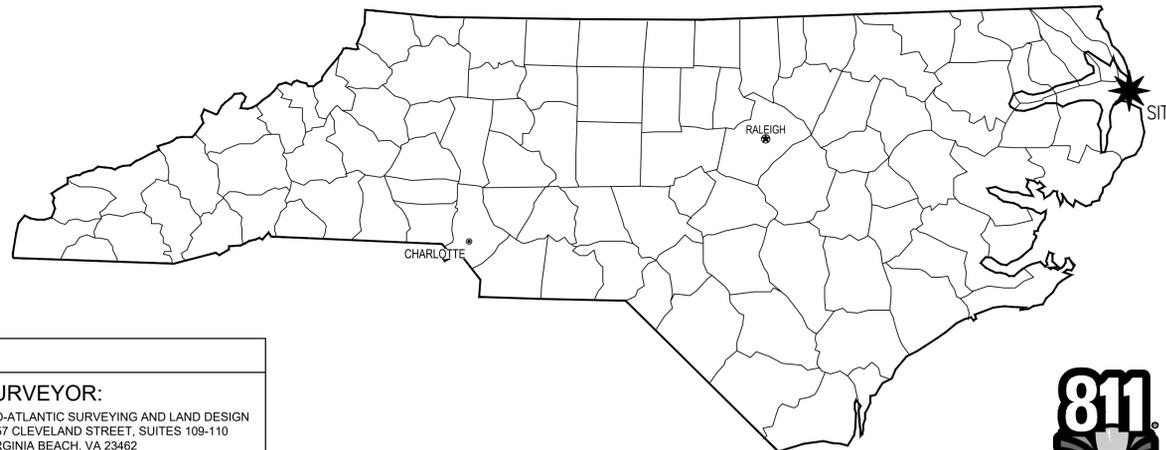
THE SITEWORK FOR THE CLIENT'S PORTION OF THIS PROJECT SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED HEREIN.
ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTIONS OF SERVICES.

ATTENTION IS DRAWN TO THE FACT THAT THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

THE GENERAL CONTRACTOR SHALL PROVIDE KIMLEY-HORN WITH ANY AS-BUILT DRAWINGS REQUIRED BY THE TOWN OF KILL DEVIL HILLS PER THE TOWN'S REQUIREMENTS, A MINIMUM OF 4 WEEKS PRIOR TO OBTAINING THE CERTIFICATE OF OCCUPANCY.

KIMLEY-HORN SHALL HAVE NO LIABILITY WHATSOEVER FOR ANY COSTS ARISING OUT OF THE CLIENT'S DECISION TO OBTAIN BIDS OR PROCEED WITH CONSTRUCTION BEFORE KIMLEY-HORN HAS ISSUED FINAL, FULLY-APPROVED PLANS AND SPECIFICATIONS. THE CLIENT ACKNOWLEDGES THAT ALL PRELIMINARY PLANS ARE SUBJECT TO SUBSTANTIAL REVISION UNTIL PLANS ARE FULLY APPROVED AND ALL PERMITS OBTAINED.



Know what's below.
Call before you dig.



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| S3-0 | CANOPY COLUMN BRICK MASONRY WRAP |
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ALERT TO CONTRACTOR

CONTRACTOR SHALL USE ACTIVE SHORING DURING INSTALLATION OF UNDERGROUND STORAGE TANKS.

CONTRACTOR SHALL PROVIDE SUBMITTALS FOR, AT A MINIMUM, THE DUMPSTER GATES, IRRIGATION, AND RETAINING WALLS

CONTRACTOR TO CONTACT JOHN RISOLDI AT 252-449-5227 TO ENSURE THAT JOHN IS PRESENT TO WITNESS THE PIPING FOR THE GAS/FUEL PUMPS.

PREPARED BY:

Kimley»»Horn

| PROJECT OWNER AND CONSULTANT INFORMATION | | |
|--|--|--|
| OWNER: HARRIS TEETER, LLC 701 CRESTDALE ROAD MATTHEWS, NORTH CAROLINA 28105 (704) 844-3100 TEL CONTACT: MICHAEL BURDETTE | ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NORTH CAROLINA 28202 (704) 333-5131 TEL CONTACT: MARGARET F. JONES, P.E.(NC) | SURVEYOR: MID-ATLANTIC SURVEYING AND LAND DESIGN 5257 CLEVELAND STREET, SUITES 109-110 VIRGINIA BEACH, VA 23462 (757) 208-7617 TEL CONTACT: TIM CAMPBELL, P.L.S. |

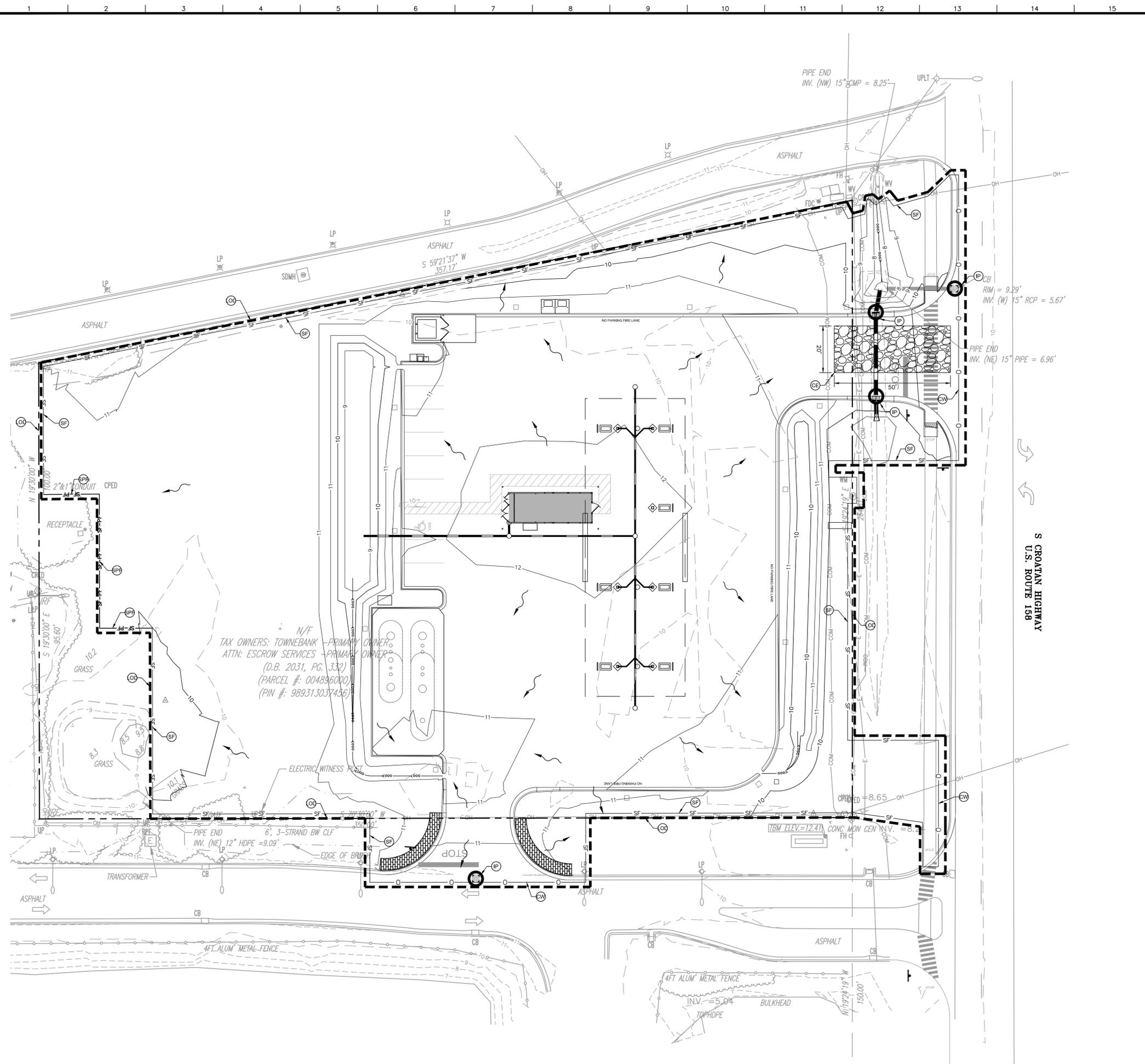
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| | DATE | FILE NUMBER | SHEET NUMBER AND NAME |
| | 03/04/2020 | 015640095 | COVER SHEET |
| | | | TOTAL SHEETS |
| | | | 26 |

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KIMLEY-HORN AND ASSOCIATES, INC.

C:\Users\jngan\Documents\Harris Teeter - documents\085 kill devil hills, nc fuel center\02 - DWG\085killdev01-cover.dwg

April 06, 2020 - 3:15pm By: Megan Fitzsimmons

C:\Users\megan.fitzsimmons\OneDrive\Documents\095 kill devil hills, nc fuel center\02 - DWG\plan sheets\C1-0 EROSION CONTROL PHASE 1.dwg



| EROSION CONTROL LEGEND | |
|------------------------|----------------------------|
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | LIMITS OF DISTURBANCE |
| | SILT FENCE |
| | SILT/TREE PROTECTION FENCE |
| | TREE PROTECTION FENCE |
| | COIR WATTLE |
| | INLET PROTECTION |
| | CONSTRUCTION ENTRANCE |
| | FLOW DIRECTION |

GENERAL EROSION CONTROL NOTES

- SEE SHEET C0-2 FOR GENERAL EROSION CONTROL NOTES.
- CONTRACTOR TO KEEP INSPECTION / MAINTENANCE LOG ONSITE FOR THE DURATION OF THE PROJECT.

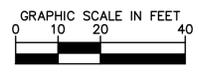
GENERAL EROSION CONTROL CONSTRUCTION SEQUENCE

- THE FOLLOWING "CONSTRUCTION SEQUENCE" IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS. ADDITIONS, DELETIONS AND MODIFICATIONS SHOULD BE MADE AS APPROPRIATE.
- SET UP A ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCES, SILT FENCE, INLET PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- BEGIN EARTHWORK/GRADING/DEMOLITION ACTIVITIES. BEGIN ASPHALT MILLING. BEGIN GRADING OF FILL SLOPES. MAINTAIN AND VERTICALLY ADJUST SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS TO TEMPORARY SILT FENCE.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE INSPECTOR PRIOR TO ANY NEW PAVEMENT ACTIVITY IN ORDER FOR STAFF TO OBSERVE SITE CONDITION PRIOR TO PAVING.
- DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 14 CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
- AS CONSTRUCTION PROGRESSES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATORS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF KILL DEVIL HILLS EROSION AND SEDIMENT CONTROL MANUAL.

CONTRACTOR TO MAINTAIN EXISTING SIDEWALKS TO THE MAXIMUM EXTENT POSSIBLE THROUGHOUT CONSTRUCTION TO ALLOW PEDESTRIAN ACTIVITY TO CONTINUE ALONG S CROATAN HIGHWAY.

TOTAL DISTURBED AREA: 1.96 ACRES

REFERENCE SHEET C5-0, LANDSCAPE PLAN, FOR PERMANENT STABILIZATION



Kimley-Horn
 NC License #F-0102
 200 SOUTH TRYON ST.
 SUITE 200
 CHARLOTTE, NC 28202
 PHONE: (704) 333-5131

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PROFESSIONAL SEAL
 MARGARET JONES
 ENGINEER
 048983

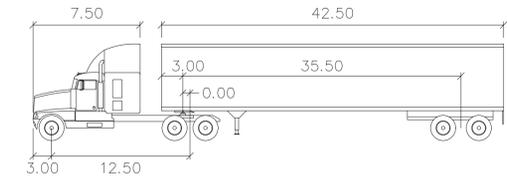
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CLIENT: HARRIS TEETER
 HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE: EROSION CONTROL PHASE 2

DESIGNED BY: AES
 DRAWN BY: AES
 CHECKED BY: MFJ
 DATE: 03/04/2020
 PROJECT#: 015640095

C1-1



WB-50

| | | | |
|---------------|--------|--------------------|--------|
| Tractor Width | : 8.00 | Lock to Lock Time | : 6.0 |
| Trailer Width | : 8.50 | Steering Angle | : 17.7 |
| Tractor Track | : 8.00 | Articulating Angle | : 70.0 |
| Trailer Track | : 8.50 | | |

ZONING CODE SUMMARY

| | |
|--------------------------|---|
| PROJECT NAME: | STORE 175 - KILL DEVIL HILLS |
| CLIENT NAME: | HARRIS TEETER, LLC. |
| PHONE# | (704)844-3100 |
| PLANS PREPARED BY: | KIMLEY-HORN AND ASSOCIATES |
| PHONE# | (704)333-5131 |
| TAX PARCEL ID: | 004896000 |
| STREET ADDRESS: | 2006 S CROATAN HIGHWAY KILL DEVIL HILL, NC 27948 |
| ZONING: | COMMERCIAL (C) |
| PROPOSED USE: | (N) RETAIL |
| BUILDING HEIGHT: | 19 FT 5 1/2" |
| LOT SIZE: | 1.85 ACRES |
| MINIMUM LOT WIDTH: | 50 FT |
| MINIMUM LOT DEPTH: | N/A |
| MAXIMUM BUILDING HEIGHT: | 50 FT |
| JURISDICTION: | TOWN OF KILL DEVIL HILLS |
| YARD REQUIREMENTS: | |
| SETBACK (FRONT): | 30 |
| SIDE YARD (NORTH): | 10 |
| SIDE YARD (SOUTH): | 10 |
| REAR YARD: | 10 |

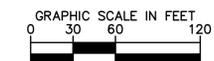
PARKING SUMMARY

| | |
|---|----------|
| PARKING REQUIRED (1 SPACE PER 200 SF) (540 SF GFA): | 3 SPACES |
| ADA PARKING REQUIRED: | 1 SPACE |
| ADA PARKING PROVIDED: | 1 SPACE |
| STANDARD PARKING PROVIDED: | 8 SPACES |
| PARKING PROVIDED: | 9 SPACES |

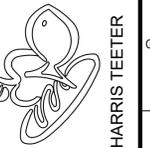
LOT COVERAGE / OPEN SPACE SUMMARY

| | |
|-----------------------------------|---------------------------------|
| TOTAL PROPERTY AREA: | 80,600 SF OR 1.85 ACRES |
| EXISTING IMPERVIOUS AREA: | 50,490 SF OR 1.16 ACRES (62.6%) |
| EXISTING IMPERVIOUS AREA REMOVED: | 50,490 SF OR 1.16 ACRES (62.6%) |
| PROPOSED IMPERVIOUS AREA: | 35,050 SF OR 0.80 ACRES (43.5%) |

*NOTE - MAXIMUM ALLOWABLE IMPERVIOUS TO BE 65%



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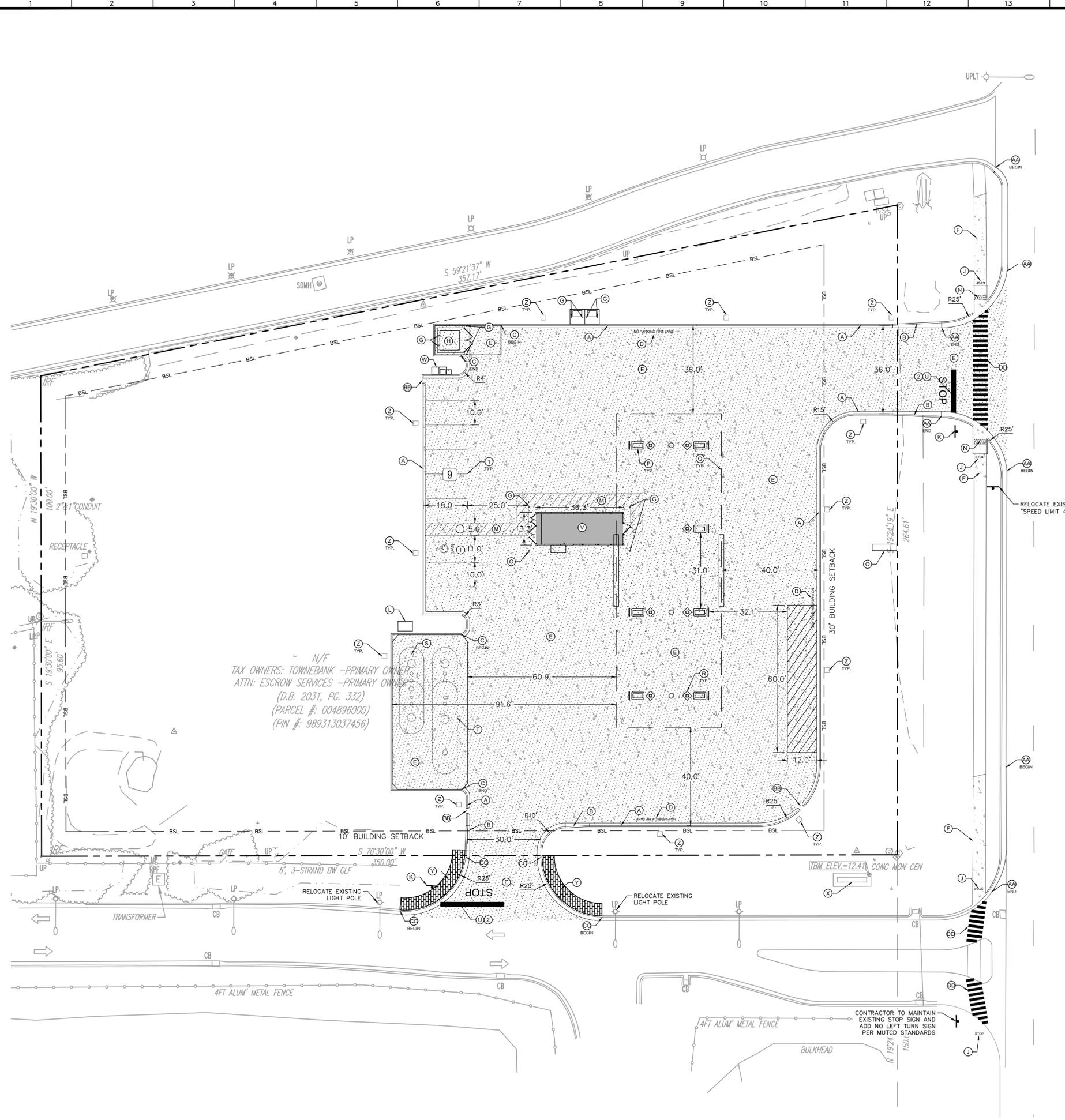
CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
STORE #175 KILL DEVIL HILLS
2006 S CROATAN HIGHWAY
KILL DEVIL HILLS, NORTH CAROLINA 27948
DARE COUNTY

TITLE: OVERALL SITE PLAN

DESIGNED BY: AES
DRAWN BY: AES
CHECKED BY: MFJ
DATE: 03/04/2020
PROJECT#: 015640095

April 06, 2020 - 3:16pm By: Megan Fitzsimmons
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N/F
 TAX OWNERS: TOWNEBANK - PRIMARY OWNER
 ATTN: ESCROW SERVICES - PRIMARY OWNER
 (D.B. 2031, PG. 332)
 (PARCEL #: 004896000)
 (PIN #: 989313037456)

| FUEL STATION SITE PLAN LEGEND | |
|-------------------------------|---------------------------------------|
| | PROPOSED 18" CURB AND GUTTER |
| | PROPOSED SITE NOTE |
| | PROPOSED PARKING SPACES |
| | PROPOSED HEAVY DUTY CONCRETE PAVEMENT |
| | PROPOSED STANDARD DUTY CONCRETE |
| | PROPOSED KIOSK |
| | LOADING ZONE |
| | PROPOSED CANOPY |
| | PROPOSED UNDERGROUND STORAGE TANK |

- SITE NOTES**
- ALL DIMENSIONS ARE BASED FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - SEE EXISTING CONDITIONS SHEET FOR COMPLETE BOUNDARY DESCRIPTION, ADJOINING PROPERTIES, ZONING AND USE.
 - SEE GENERAL NOTES SHEET FOR SITE PLAN AND ZONING NOTES.
 - THIS SITE IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE AE (EL. 10) AND PARTIALLY LOCATED OUTSIDE A SPECIAL FLOOD HAZARD AREA (ZONE X), ACCORDING TO THE INSURANCE RATE MAP, FIRM PANEL 3720989300J DATED SEPTEMBER 20, 2006.
 - ALL ON-SITE STRIPING IS TO BE SHERWIN-WILLIAMS HOTLINE WITH GLASS BEADS.
 - CONTRACTOR SHALL USE MP1 CAULK TO SEAL AROUND KIOSK.
 - CONTRACTOR SHALL USE POLYUREA FLOOR SEALANT ON ALL ON SITE CONCRETE.
 - CONTRACTOR TO USE SILTANUM FOR ALL TILE IN RESTROOM
 - CONTRACTOR TO CONTACT JOHN RISOLDI AT 252-449-5227 TO ENSURE THAT HE IS PRESENT TO WITNESS THE PIPING FOR THE GAS/FUEL PUMPS.

- SITE LEGEND**
- (A) 18" CONCRETE CURB AND GUTTER TYPICAL (SEE SITE DETAIL SHEET)
 - (B) CURB TRANSITION (SEE SITE DETAIL SHEET)
 - (C) INTEGRATED CONCRETE CURB (SEE SITE DETAIL SHEET)
 - (D) 'NO PARKING FIRE LANE' PAINTED IN 12" LETTERS
 - (E) HEAVY DUTY CONCRETE PAVEMENT (SEE SITE DETAIL SHEET) SEE NOTE 6 ABOVE
 - (F) STANDARD DUTY CONCRETE SIDEWALK (SEE SITE DETAIL SHEET)
 - (G) 6" PIPE BOLLARD WITH GLASS CITY BOLLARD SLEEVE (SEE SITE DETAIL SHEET)
 - (H) DUMPSTER ENCLOSURE WITH GATES (SEE SITE DETAIL SHEET)
 - (I) ACCESSIBLE PARKING SPACE TYPICAL. SEE SITE DETAIL SHEET FOR ACCESSIBLE PARKING SPACE SIZE AND SIGN ("VAN"-INDICATES VAN ACCESSIBLE SPACE)
 - (J) "STOP" PAINTED AT INTERSECTIONS OF CROSSWALKS AND DRIVEWAYS. BIKE PEDESTRIAN COALITION CAN PROVIDE STENCILS OR TOWN CAN PROVIDE PAINT.
 - (K) "STOP" SIGN. (SEE SITE DETAIL SHEET)
 - (L) 4' x 6' CONCRETE PAD FOR VENT STACKS. VENT STACKS SHALL BE PAINTED BRONZE TO MATCH SITE LIGHTING POLES. (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
 - (M) ADA PEDESTRIAN CROSSWALK (SEE SITE DETAIL SHEET)
 - (N) HANDICAP ACCESSIBLE RAMP (SEE SITE DETAIL SHEET)
 - (O) MONUMENT SIGN (SEE SITE SIGNAGE PLANS BY CASCO SIGNS)
 - (P) DISPENSER (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
 - (Q) OVERHEAD CANOPY (SEE CANOPY AND CANOPY LIGHTING PLANS BY MCGEE CORPORATION)
 - (R) CANOPY COLUMN (SEE CANOPY COLUMN BRICK MASONRY WRAP SHEET)
 - (S) 18,000 GALLON SPLIT FUEL TANK (10,000 DIESEL AND 8,000 ETHANOL FREE) (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
 - (T) 28,000 GALLON FUEL TANK (20,000 REGULAR AND 8,000 PREMIUM) (SEE UNDERGROUND STORAGE TANK PLANS BY GALLOWAY)
 - (U) STOP BAR (SEE SITE DETAIL SHEET)
 - (V) KIOSK (SEE KIOSK PLANS BY FREY MOSS STRUCTURES)
 - (W) 8' x 3' CONCRETE PAD FOR TRASH CAN, YARD HYDRANT, AND AIR/VAC
 - (X) EXISTING MONUMENT SIGN TO REMAIN
 - (Y) RADIUS PROTECTOR (SEE SITE DETAIL SHEET)
 - (Z) LIGHT POLE BASE (SEE STRUCTURAL SHEETS)
 - (AA) 30" CONCRETE CURB AND GUTTER TYPICAL (SEE SITE DETAIL SHEET)
 - (BB) 2" CURB CUT (SEE SITE DETAIL SHEET)
 - (CC) 24" CONCRETE CURB AND GUTTER TYPICAL (SEE SITE DETAIL SHEET)
 - (DD) NCDOT HI-VISIBILITY PEDESTRIAN CROSSWALK (SEE SITE DETAIL SHEET)

- STRIPING LEGEND**
- (1) SINGLE WHITE SOLID LINE / 4" WIDE
 - (2) SINGLE WHITE SOLID LINE / 24" WIDE

GRAPHIC SCALE IN FEET
 0 10 20 40

 Know what's below.
 Call before you dig.

Kimley»Horn
 NC License #F-0102
 200 SOUTH TRYON ST.
 SUITE 200
 CHARLOTTE, NC 28202
 PHONE: (704) 333-5131
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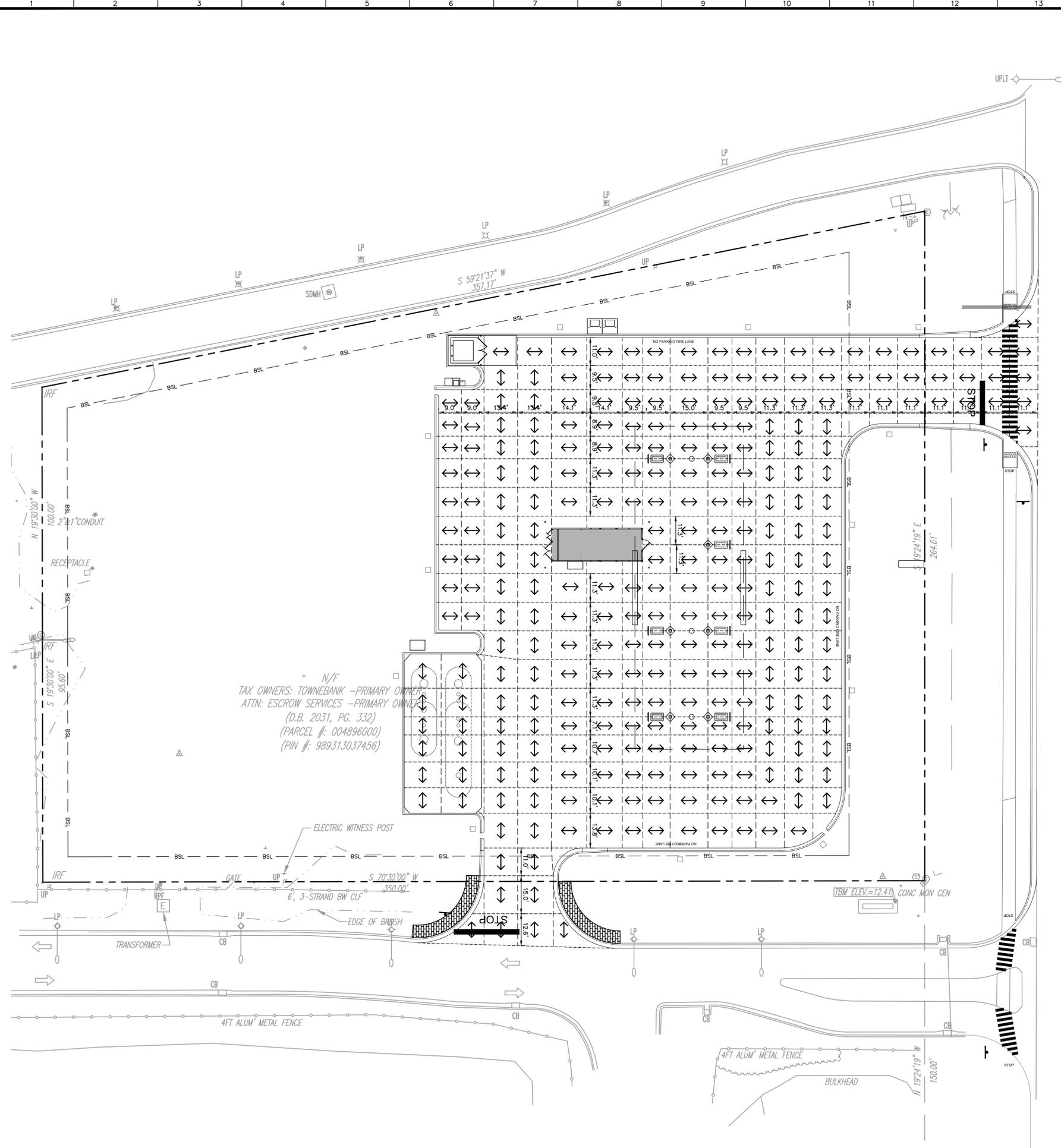
MARGARET JONES
 PROFESSIONAL ENGINEER
 SEAL
 046983
 NORTH CAROLINA

CLIENT: HARRIS TEETER
 PROJECT: HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE: FUEL STATION SITE PLAN

DESIGNED BY: AES
 DRAWN BY: AES
 CHECKED BY: MFJ
 DATE: 03/04/2020
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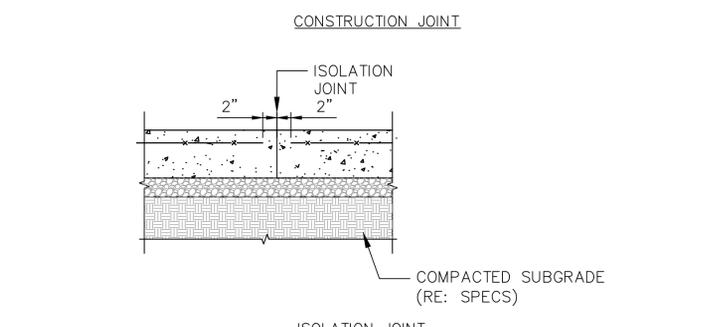
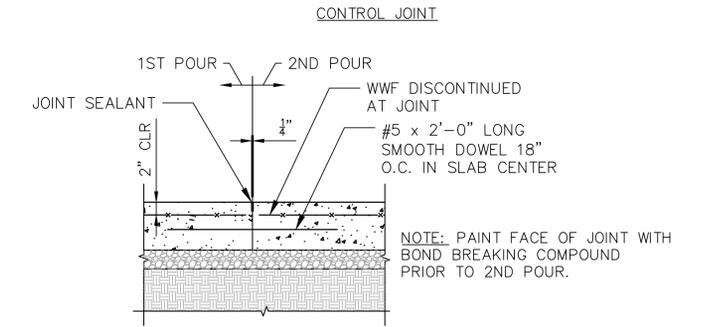
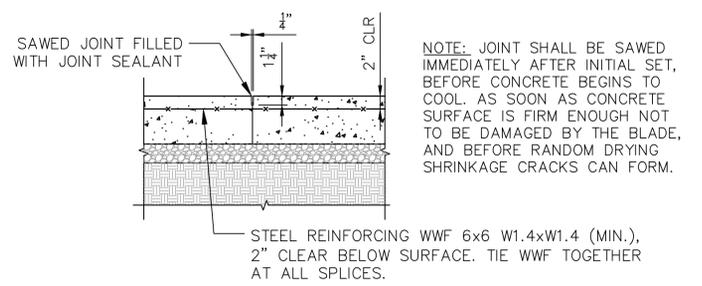
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N/F
 TAX OWNERS: TOWNEBANK - PRIMARY OWNER
 ATTN: ESCROW SERVICES - PRIMARY OWNER
 (D.B. 2031, PG. 332)
 (PARCEL #: 004896000)
 (PIN #: 989313037456)

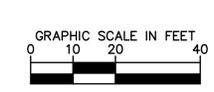
| PROPOSED PAVING LEGEND | |
|------------------------|---------------------------------|
| ----- | CONTROL JOINT |
| - - - - - | CONSTRUCTION JOINT |
| ===== | ISOLATION JOINT |
| | RADIUS PROTECTOR |
| ↔ | PAVEMENT BROOM FINISH DIRECTION |

1. ALL CONCRETE PAVEMENT SHALL BE REINFORCED PER THIS DETAIL.
2. REFER TO PAVING PLAN FOR BROOM FINISH DIRECTION.
3. MAINTAIN 2" CLEAR COVER AT ENDS OF WELDED WIRE FABRIC (WWF).
4. WWF TO BE SPLICED ONE GRID OR 6" WHICHEVER IS GREATER.
5. USE PROPER CHAIRS TO MAINTAIN 2" CLEAR FROM TOP OF PAVEMENT.
6. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PREVENT MOVEMENT OF WWF DURING POUR. STAKES SHALL BE 12" OR MORE FROM THE EDGE OF PANEL.



PAVEMENT REINFORCING DETAIL

NOTE: JOINTS SHOULD BE "WET SAW" JOINTS



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 NC License #F-0102
 200 SOUTH TRYON ST.
 SUITE 200
 CHARLOTTE, NC 28202
 PHONE: (704) 333-5131

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PROFESSIONAL SEAL
 HARRIS TEETER
 ENGINEER
 #048983

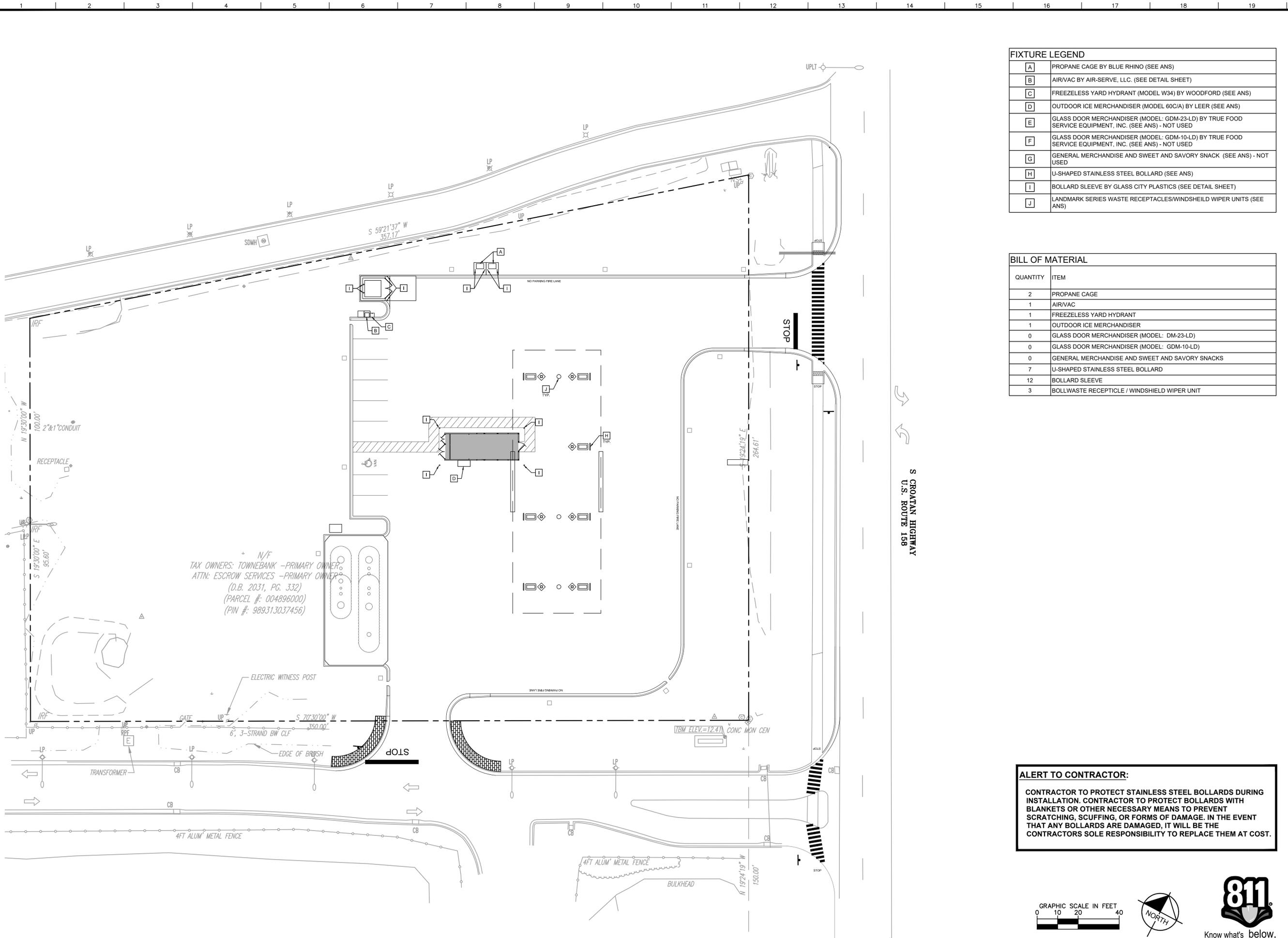
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CLIENT: HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE: FUEL STATION PAVING PLAN

DESIGNED BY: AES
 DRAWN BY: AES
 CHECKED BY: MFJ
 DATE: 03/04/2020
 PROJECT#: 015640095

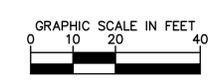
C2-2



| FIXTURE LEGEND | |
|----------------|--|
| A | PROPANE CAGE BY BLUE RHINO (SEE ANS) |
| B | AIR/VAC BY AIR-SERVE, LLC. (SEE DETAIL SHEET) |
| C | FREEZELESS YARD HYDRANT (MODEL W34) BY WOODFORD (SEE ANS) |
| D | OUTDOOR ICE MERCHANDISER (MODEL 60C/A) BY LEER (SEE ANS) |
| E | GLASS DOOR MERCHANDISER (MODEL: GDM-23-LD) BY TRUE FOOD SERVICE EQUIPMENT, INC. (SEE ANS) - NOT USED |
| F | GLASS DOOR MERCHANDISER (MODEL: GDM-10-LD) BY TRUE FOOD SERVICE EQUIPMENT, INC. (SEE ANS) - NOT USED |
| G | GENERAL MERCHANDISE AND SWEET AND SAVORY SNACK (SEE ANS) - NOT USED |
| H | U-SHAPED STAINLESS STEEL BOLLARD (SEE ANS) |
| I | BOLLARD SLEEVE BY GLASS CITY PLASTICS (SEE DETAIL SHEET) |
| J | LANDMARK SERIES WASTE RECEPTACLES/WINDSHIELD WIPER UNITS (SEE ANS) |

| BILL OF MATERIAL | |
|------------------|---|
| QUANTITY | ITEM |
| 2 | PROPANE CAGE |
| 1 | AIR/VAC |
| 1 | FREEZELESS YARD HYDRANT |
| 1 | OUTDOOR ICE MERCHANDISER |
| 0 | GLASS DOOR MERCHANDISER (MODEL: DM-23-LD) |
| 0 | GLASS DOOR MERCHANDISER (MODEL: GDM-10-LD) |
| 0 | GENERAL MERCHANDISE AND SWEET AND SAVORY SNACKS |
| 7 | U-SHAPED STAINLESS STEEL BOLLARD |
| 12 | BOLLARD SLEEVE |
| 3 | BOLLWASTE RECEPTACLE / WINDSHIELD WIPER UNIT |

ALERT TO CONTRACTOR:
 CONTRACTOR TO PROTECT STAINLESS STEEL BOLLARDS DURING INSTALLATION. CONTRACTOR TO PROTECT BOLLARDS WITH BLANKETS OR OTHER NECESSARY MEANS TO PREVENT SCRATCHING, SCUFFING, OR FORMS OF DAMAGE. IN THE EVENT THAT ANY BOLLARDS ARE DAMAGED, IT WILL BE THE CONTRACTORS SOLE RESPONSIBILITY TO REPLACE THEM AT COST.



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 PHONE: (704) 333-5131
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PROFESSIONAL SEAL
 048983
 MARGARET JONES
 ENGINEER
 STATE OF NORTH CAROLINA

| NO. | DATE | REVISIONS |
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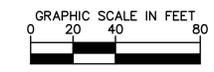
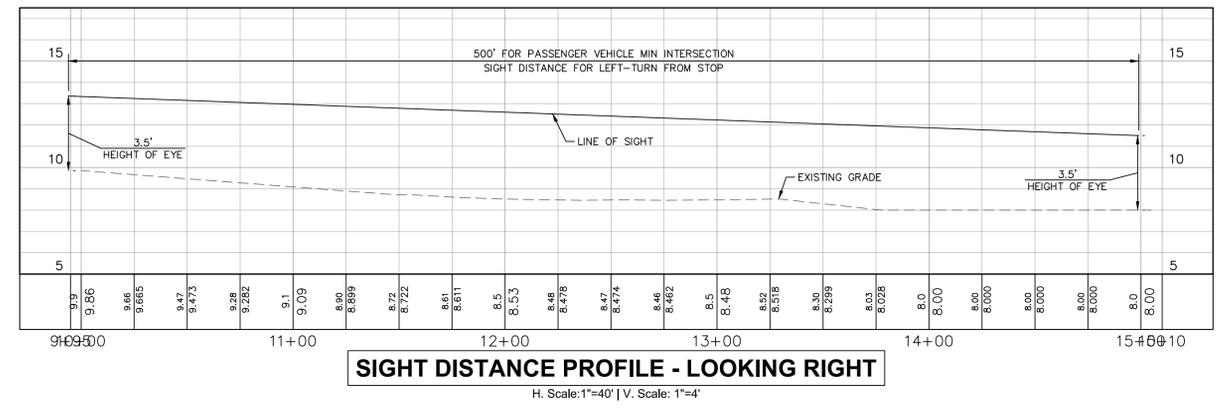
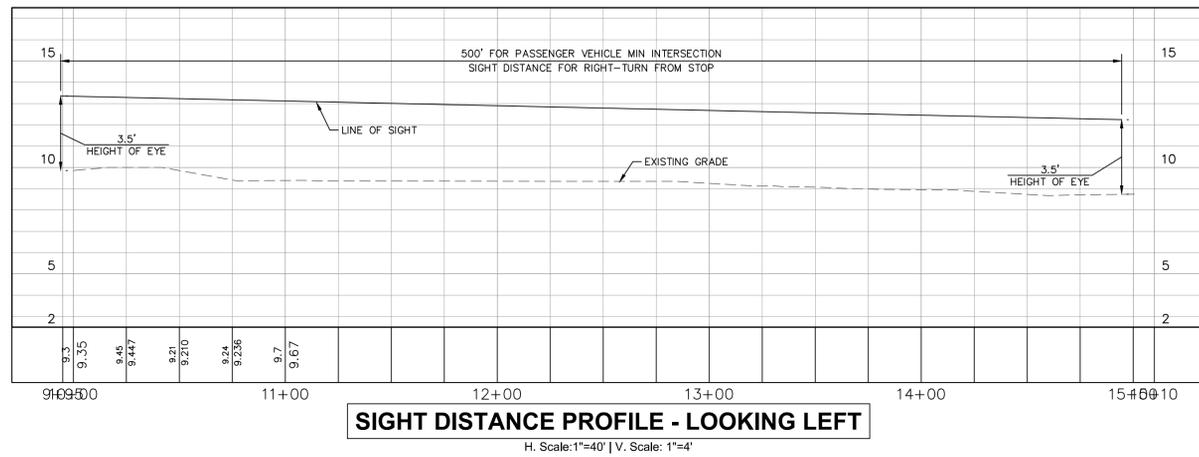
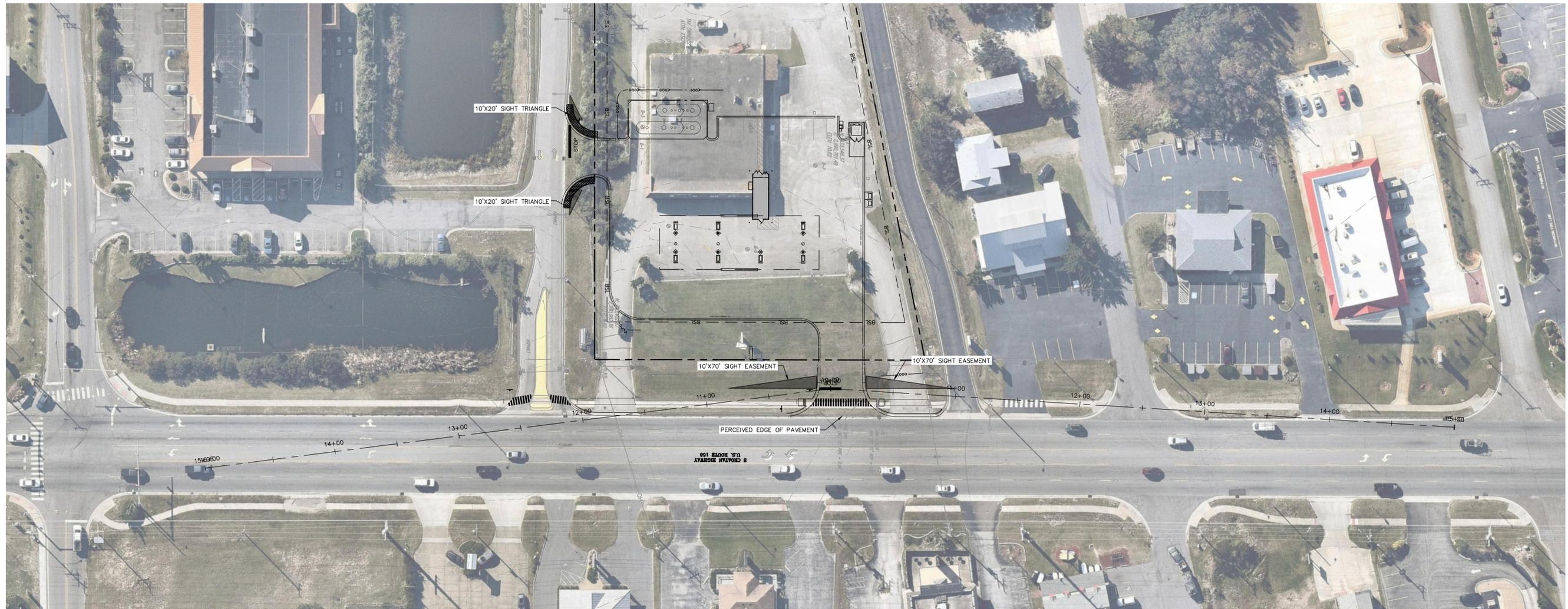
CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE: FUEL STATION FIXTURE PLAN

DESIGNED BY: AES
 DRAWN BY: AES
 CHECKED BY: MFJ
 DATE: 03/04/2020
 PROJECT#: 015640095

C2-3



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CLIENT:

HARRIS TEETER

PROJECT:
**HARRIS TEETER FUEL CENTER
STORE #175 KILL DEVIL HILLS**
2006 S CROATAN HIGHWAY
KILL DEVIL HILLS, NORTH CAROLINA 27948
DARE COUNTY

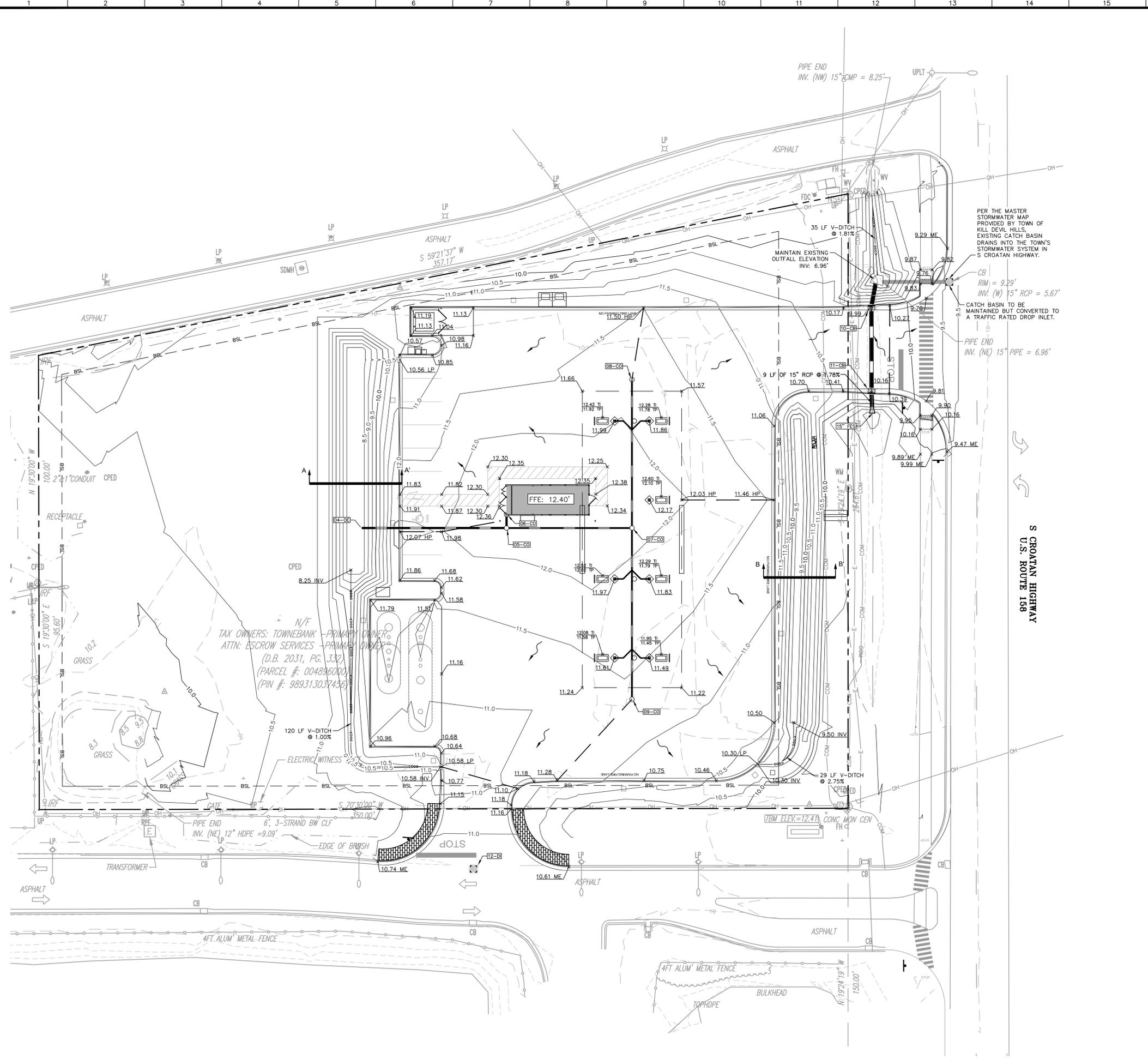
TITLE:
**SIGHT DISTANCE
TRIANGLE PROFILE**

DESIGNED BY: AES
DRAWN BY: AES
CHECKED BY: MFJ
DATE: 03/04/2020
PROJECT#: 015640095

C2-4

April 06, 2020 3:16pm By: Megan Fitzsimmons

C:\Users\megan.fitzsimmons\OneDrive\Documents\095 Kill Devil Hills, NC Fuel Center\02 - DWG\plan sheets\C3-0 GRADING AND DRAINAGE PLAN.dwg



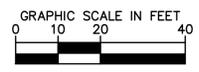
| GRADING AND DRAINAGE LEGEND | |
|-----------------------------|--------------------------------|
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED SPOT - FINISHED GRADE |
| | PROPOSED SPOT - HIGH POINT |
| | PROPOSED SPOT - LOW POINT |
| | PROPOSED SPOT - TOP OF ISLAND |
| | STORM STRUCTURE LABEL |
| | STORM STRUCTURE |
| | PROPOSED STORM PIPE |
| | EXISTING STORM PIPE |
| | FLOW DIRECTION |

- ### GRADING NOTES
- SEE GENERAL NOTES SHEET FOR OVERALL PAVING, GRADING AND DRAINAGE NOTES.
 - CONTRACTOR SHALL REVIEW, UNDERSTAND AND IMPLEMENT ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY DISTURBANCE.
 - ALL SPOT ELEVATIONS ALONG PAVEMENT REPRESENT FINISHED GRADE ELEVATION UNLESS OTHERWISE NOTED.
 - ALL PROPOSED STORM PIPE TO BE CLASS III RCP UNLESS OTHERWISE NOTED.
 - ALL STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH FINAL PAVEMENT.
 - ALL CONNECTIONS BETWEEN PROPOSED STORM STRUCTURES AND O-RING PIPE SHALL HAVE WATERTIGHT CONNECTIONS.
 - INLET PROTECTION - CONTRACTOR SHALL PROVIDE CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED INLETS UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED.
 - CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT AND EXISTING PAVEMENT AND STORM STRUCTURES
 - ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES
 - ALL CLEANOUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
 - CONTRACTOR SHALL COORDINATE PAVING IMPROVEMENTS TO AVOID TIRE MARKS FROM CONSTRUCTION ACTIVITY. FINAL PAVING SHALL BE AS SMOOTH AS POSSIBLE AND FREE FROM ANY PARKS, SCRAPED, GOUGED, TIRE MARKS, ETC. CAUSED DURING CONSTRUCTION.
 - DURING CONSTRUCTION AND AFTER FINAL GRADING, NO SURFACE WATER RUNOFF MAY BE DIRECTED TO ADJACENT PROPERTIES, AND ALL SURFACE WATER RUNOFF MUST BE ROUTED TO APPROVED DRAINAGE FACILITIES OR BE RETAINED ON SITE. ALL RUNOFF FROM THE SITE, BOTH DURING AND AFTER CONSTRUCTION, MUST BE FREE OF POLLUTANTS, INCLUDING SEDIMENT, PRIOR TO DISCHARGE.
 - ALL SCHEDULE 40 PVC IS TO BE USED ON PROJECT. THERE SHALL BE NO CELL-CORE USED DURING CONSTRUCTION. ALL PVC PIPE SHALL BE WATER TIGHT.
 - RIM ELEVATIONS OF CURB INLETS EQUALS THE FLOW LINE OF THE GUTTER PAN. RIM ELEVATIONS OF DROP INLETS, MANHOLES, AND CLEANOUTS EQUALS THE CENTER OF GRATE OR LID ELEVATION.

| STORM DRAINAGE ABBREVIATIONS LIST | |
|---|---|
| (SEE LATEST NCDOT STDS. MANUAL AND DETAIL SHEETS) | |
| CB | CATCH BASIN (NCDOT STDS. 840.00, 01, 02, 46, 66) |
| US | US FOUNDRY 5181 FRAME & HOOD AND US FOUNDRY 6003 GRATE |
| DI | DROP INLET (NCDOT STDS. 840.00, 14, 15, 46, 66) |
| US | US FOUNDRY 4139 FRAME AND US FOUNDRY 6002 GRATE |
| MH | JUNCTION BOX/MANHOLE (NCDOT STDS. 840.00, 31, 32, 46, 54, 66) |
| OE | OPEN ENDED PIPE |
| RD | ROOF DRAIN (REF: ARCH/MEP) |
| CO | CLEAN-OUT (SEE DETAIL SHEET) |
| FS | FLOW SPLITTER (SEE DETAIL SHEET) |
| OCS | BMP CONTROL STRUCTURE (SEE DETAIL SHEET) |
| EX-CB | EXISTING CATCH BASIN |

ALERT TO CONTRACTOR

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



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 SEAL 048983
 HARRIS TEETER ENGINEERS & ARCHITECTS

| NO. | DATE | REVISIONS |
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CLIENT: **HARRIS TEETER**

PROJECT: **HARRIS TEETER FUEL CENTER STORE #175 KILL DEVIL HILLS**

2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

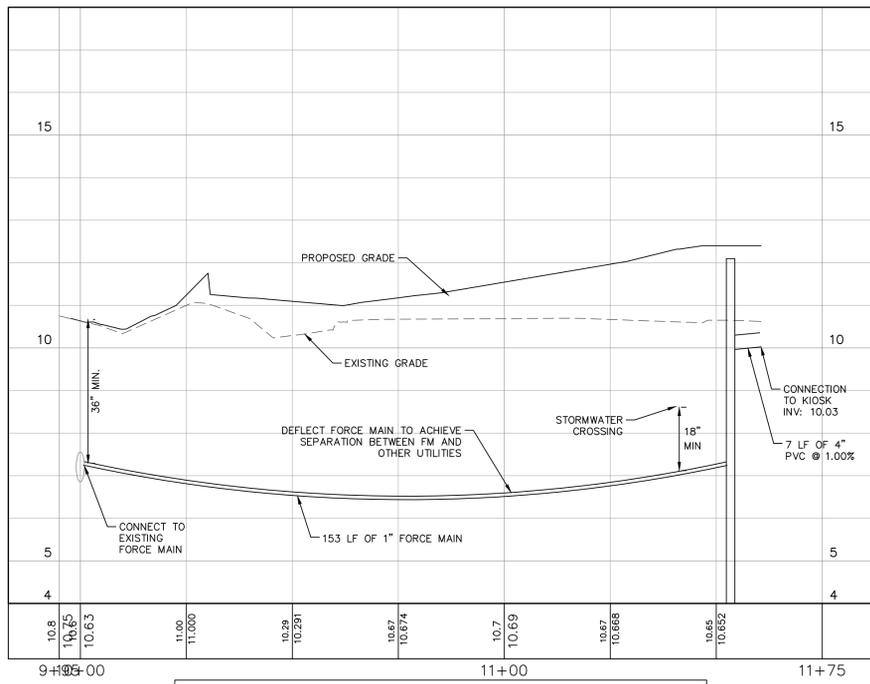
TITLE: **GRADING AND DRAINAGE PLAN**

DESIGNED BY: AES
 DRAWN BY: AES
 CHECKED BY: MFJ
 DATE: 03/04/2020
 PROJECT#: 015640095

C3-0

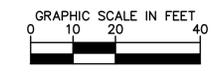
April 06, 2020 - 3:17pm By: alexa.himelton

C:\Users\megan.fitzsimmons\OneDrive\Documents\KH\harris teeter - documents\095 kill devil hills, nc fuel center\02 - DWG\plan\sheet\C4-1 SANITARY SEWER PROFILE.dwg



EXIST. FORCE MAIN TO KIOSK CONNECTION

H. Scale: 1"=20' | V. Scale: 1"=2'



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 MARGARET JONES
 046983

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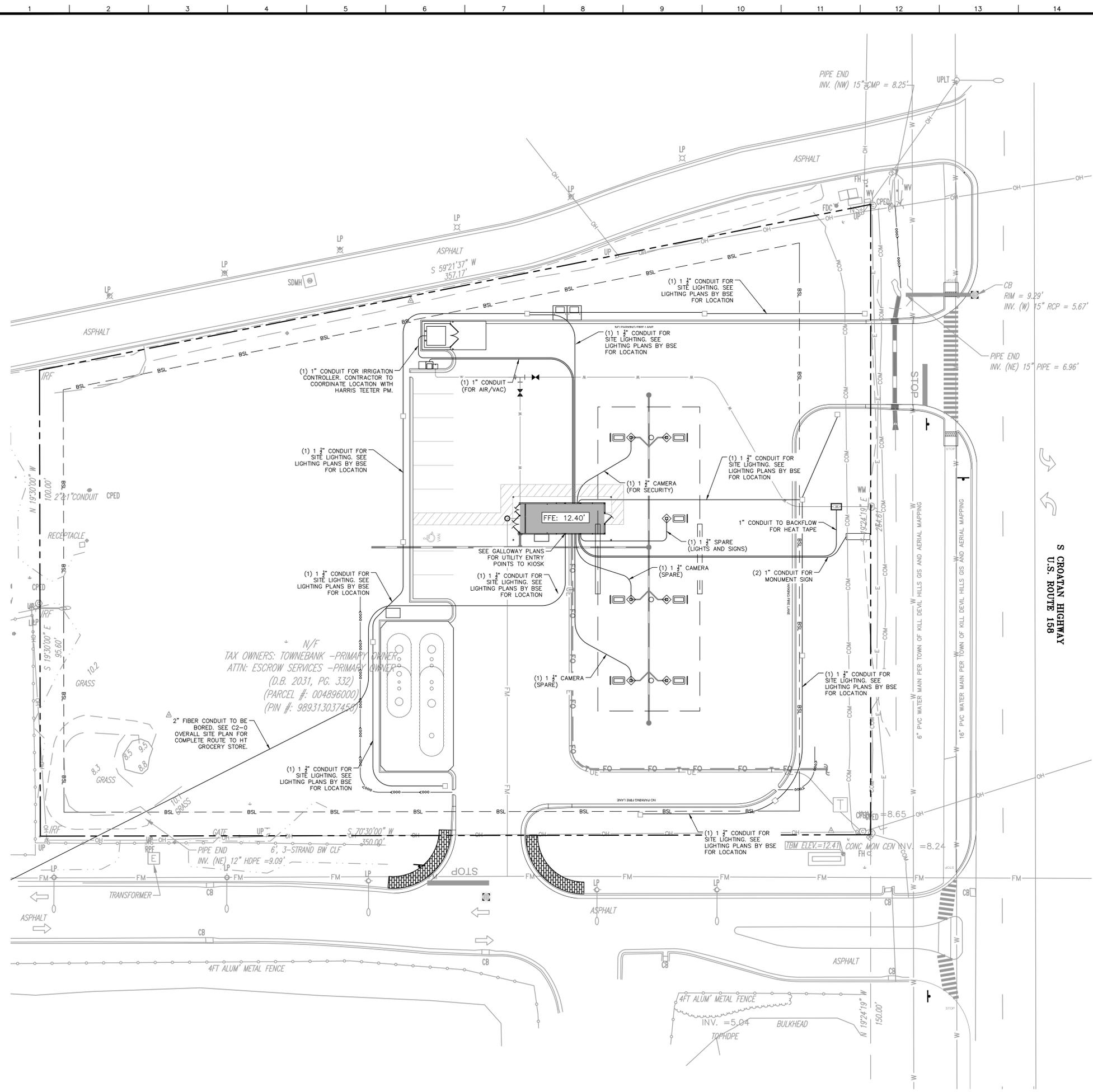
HARRIS TEETER

PROJECT:
HARRIS TEETER FUEL CENTER
STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE:
SANITARY SEWER PROFILE

DESIGNED BY: AES
DRAWN BY: AES
CHECKED BY: MFJ
DATE: 03/04/2020
PROJECT#: 015640095

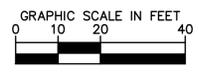
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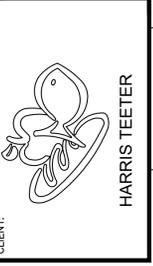
CONDUIT ROUTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY ITEMS OR EXISTING IMPROVEMENTS (NOT SCHEDULED FOR DEMOLITION) WHICH ARE DAMAGED DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROTECT EXISTING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL PLACE CONDUITS AT A MINIMUM DEPTH OF 3 FT.
4. CONDUITS SHALL BE MADE OF SCHEDULE 40 PVC.

NOTE: SEE GALLOWAY DRAWINGS FOR CONDUIT ROUTING TO MPD'S AND UST'S.



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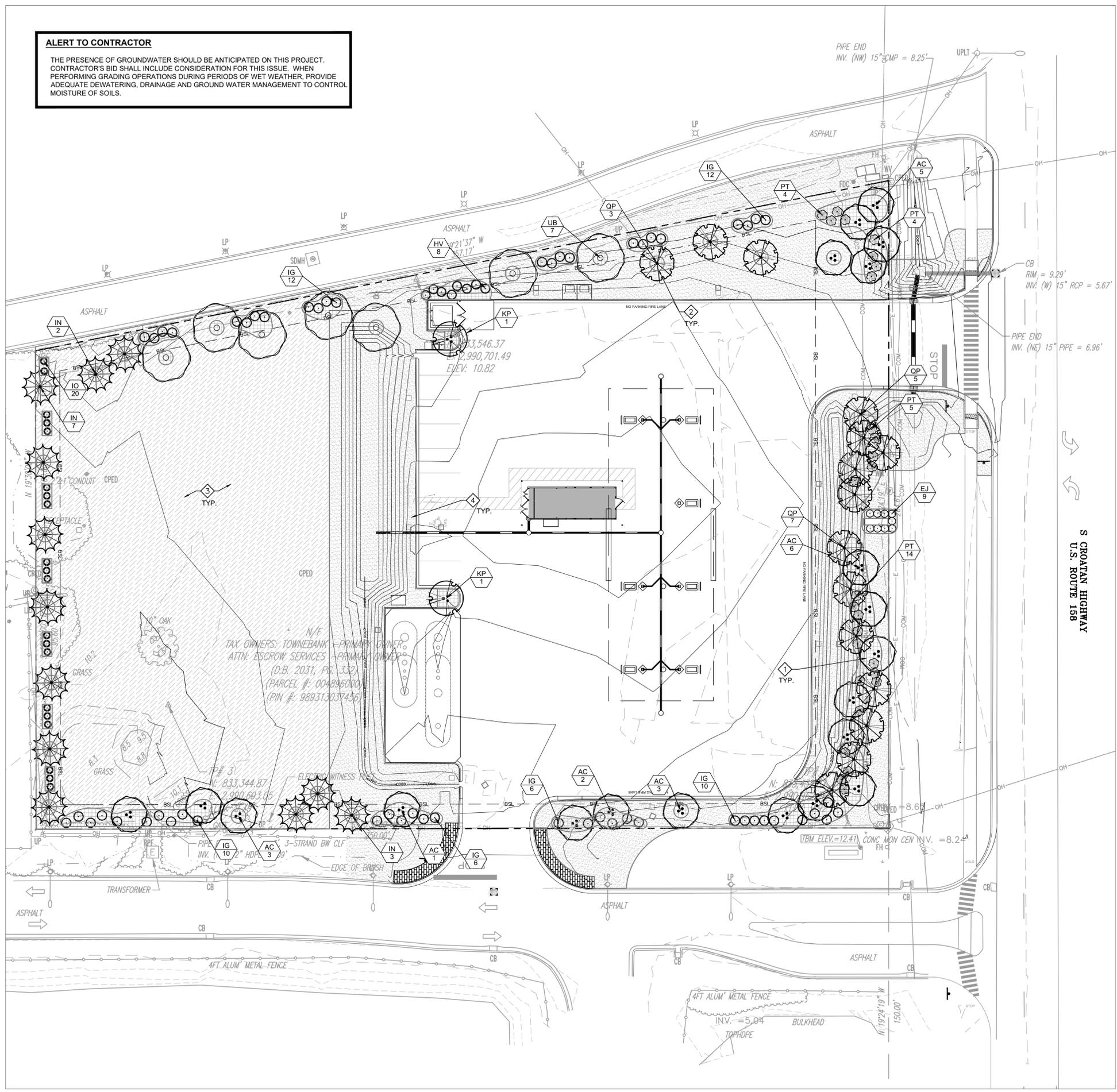


PROJECT: HARRIS TEETER FUEL CENTER
STORE #175 KILL DEVIL HILLS
2006 S CROATAN HIGHWAY
KILL DEVIL HILLS, NORTH CAROLINA 27948
DARE COUNTY

CONDUIT ROUTING PLAN

DESIGNED BY: AES
DRAWN BY: AES
CHECKED BY: MFJ
DATE: 03/04/2020
PROJECT#: 015640095

ALERT TO CONTRACTOR
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



KEY NOTES

- 1. MULCH ALL SHRUB BEDS IN THEIR ENTIRETY WITH 4" OF SHREDDED HARDWOOD MULCH AND PROVIDE SHOVEL EDGING AROUND THE ENTIRE PERIMETER OF THE MULCH BED, (TYP.) SEE DETAILS SHEET C6-1.
 - 2. PROVIDE MULCH RING ACCORDING TO THE DETAILS ON SHEET C6-1 AROUND THE BASE OF ALL ISOLATED, NEW TREES. MULCH IS NOT TO BE PILED UP AROUND THE TRUNK OF THE TREE AND SHALL NOT COME WITHIN 6" OF THE TREE TRUNK.
 - 3. SEED WITH PERMANENT LAWN GRASS. SEE SEEDING NOTES SHEET C6-1 FOR SEED TYPE.
 - 4. SOD WITH PERMANENT LAWN GRASS. SEE SHEET C6-1 FOR SOD SPECIES.
1. SEE SHEET C6-1 FOR PLANT SCHEDULE AND C6-0 FOR LANDSCAPE NOTES.
 2. SEE SHEET C6-1 FOR PLANT DETAILS.
 3. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT OTHERWISE INDICATED ON THE PLANS TO BE COVERED BY MULCHED PLANT BEDS, PAVEMENTS, BUILDINGS, PERMANENT LAWN, ETC. SHALL BE PERMANENTLY STABILIZED WITH LAWN GRASS. SEE SHEETS C6-1 FOR PLANTING SCHEDULE.
 4. CONTRACTOR SHALL COORDINATE WITH THE OWNER IF IRRIGATION IS TO BE PROVIDED. IF SO CONTRACTOR SHALL PROVIDE SCHEDULE 40 PVC SLEEVES AT ALL LOCATIONS SHOWN (TYP.). CONTRACTOR TO COORDINATE SIZING OF SLEEVES WITH IRRIGATION PLANS. SLEEVES SHALL BE COORDINATED WITH OTHER DISCIPLINES AND INSTALLED PRIOR TO THE INSTALLATION OF BASE MATERIALS.

LANDSCAPE REQUIREMENTS

Perimeter Buffer Planting Requirements:
 One tree per 30 linear feet of landscape area and one shrub per 10 linear feet of landscape area.

Parking lot planting requirements:
 Landscaping island shall be provided at the end of each parking row adjacent to the travel lane serving the parking aisle. Max square footage of internal island is 350 SF. Min square footage of internal island is 75 SF. Within internal landscape areas there shall be a minimum of one small tree per ten parking stalls. Perimeter landscaping does not count towards this requirement.

Open Space Required: 25%

LANDSCAPE CALCULATIONS

| | |
|----------------------------|----------------|
| PARCEL AREA | 1.849852 ACRES |
| | 80,580 S.F. |
| open space required at 25% | 20,145 S.F. |
| open space provided | 49,615 S.F. |

S. Croatan Highway

| | |
|---|----------|
| front yard | 221 feet |
| (C5-0) 1 tree per 10 linear ft along property line | |
| (C5-0) 1 shrub per 10 linear ft along property line | |
| *trees and shrubs do not have to be evenly spaced* | |
| trees required | 23 |
| trees provided | 23 |
| shrubs required | 23 |
| shrubs provided | 23 |

North Property Line

| | |
|------------------------|-------------|
| LF along property line | 357.17 feet |
| trees required | 12 |
| trees provided | 12 |
| shrubs required | 36 |
| shrubs provided | 36 |

South Property Line

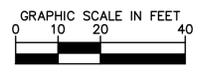
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|------------------------|-------------|
| LF along property line | 318.47 feet |
| trees required | 11 |
| trees provided | 11 |
| shrubs required | 32 |
| shrubs provided | 32 |

Rear Property Line

| | |
|------------------------|------------|
| LF along property line | 195.6 feet |
| trees required | 19 |
| trees provided | 19 |
| shrubs required | 20 |
| shrubs provided | 20 |

PARKING LOT LANDSCAPE REQUIREMENTS

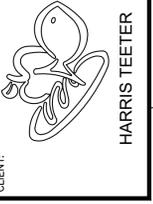
| | |
|---------------------|--------|
| parking spaces | 9 |
| ISLANDS REQUIRED | 2 |
| MINIMUM GREEN AREA | |
| REQUIRED | 150 SF |
| GREEN AREA PROVIDED | 266 SF |
| TREES REQUIRED | 2 |
| TREES PROVIDED | 2 |



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PROJECT:
 HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS
 2006 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

LANDSCAPE PLAN

DESIGNED BY: AES
DRAWN BY: AES
CHECKED BY: MFJ
DATE: 03/04/2020
PROJECT#: 015640095

C5-0

March 27, 2020 - 1:09pm By: JoeyD@berafino

GENERAL NOTES:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.
2. SEE CIVIL SHEETS FOR THE LOCATION OF STRUCTURAL ELEMENTS, WALL EXTENTS, TOP OF WALL ELEVATIONS, BOTTOM OF WALL ELEVATIONS, SITE FEATURES, UNDERGROUND UTILITIES AND SITE WORK LOCATIONS. VERIFY LOCATIONS FOR ALL UNDERGROUND UTILITIES BEFORE PROCEEDING WITH FOUNDATION EXCAVATION.
3. CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT THE WORK IS DONE IN THE DRY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC.
5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
6. NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING FOUNDATION CONDITIONS OR DETAILS THAT ARE IN CONFLICT WITH THOSE INDICATED AND SHOWN IN THE DRAWINGS.
7. REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON DRAWINGS. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS.

FOUNDATIONS:

1. ASSUMED IN-SITU SOIL PROPERTIES: GRANULAR, DRY DENSITY UNIT WEIGHT = 120 PCF; SOIL FRICTION ANGLE OF 28° AND ALLOWABLE BEARING PRESSURE = 2000 PSF.
2. CONTRACTOR SHALL ENGAGE A GEOTECHNICAL TESTING LABORATORY LICENSED IN THE STATE OF THE PROJECT TO CONFIRM SOIL PREPARATION AND SPECIFY PROCEDURES AND SPECIFY COMPACTION REQUIREMENTS NECESSARY TO OBTAIN THE DESIGN SOIL PROPERTIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ENGINEER OF RECORD IF ASSUMED SOIL PROPERTIES CANNOT BE OBTAINED ON SITE.
3. LIGHT POLE FOUNDATION EXCAVATION SHALL BE BY AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL

CAST-IN-PLACE CONCRETE:

1. READY-MIX CONCRETE WORK SHALL CONFORM TO ASTM C94.
2. STRUCTURAL CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING:
 - a. TYPE II PORTLAND CEMENT - ASTM C150
 - b. AGGREGATES (3/4" MAX.) - ASTM C33
 - c. AIR ENTRAINING (4.5% MIN. - 7% MAX.) - ASTM C260
 - d. WATER REDUCING - ASTM C494
 - e. FLY ASH (MAX 25% BY WEIGHT), TYPE F - ASTM C618
 - f. WATER - CLEAN AND POTABLE
 - g. REINFORCING STEEL: ASTM A615 GRADE 60
 - h. WELDED WIRE FABRIC: ASTM A1064.
 - i. GROUT SHALL BE NON-SHRINK, NON-METALLIC
 - j. USE OF CALCIUM CHLORIDE IS NOT PERMITTED
3. STRUCTURAL CONCRETE MIX SHALL CONFORM TO THE FOLLOWING:
 - a. CONCRETE MIXES AND EXPOSURE CLASS ACCORDING TO ACI 318:
 1. FOUNDATIONS 4,000 PSI CLASS F0
 2. WALLS 4,500 PSI AIR-ENTRAINED CLASS F2
 - b. MAXIMUM WATER-TO-CEMENT RATIO: 0.45
4. REQUIRED SLUMP: 2" TO 4" (BEFORE ADDITION OF SUPERPLASTICIZER)
5. ALL CONCRETE MATERIALS, PLACING AND HANDLING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND ACI 301. CONCRETE WORK SHALL CONFORM TO THE CURRENT VERSION OF ACI 318.
6. SUBMITTALS:
 - a. DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION, INCLUDED BAR LISTS AND BEND DIAGRAMS.
 - b. MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR APPROVAL
 - c. PRODUCT DATA AND MATERIAL CERTIFICATES.
7. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
8. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.
9. CAST-IN-PLACE CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS FOLLOWING INITIAL SET.
10. CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
 - a. APPLY A LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C309.
 - b. WET CURE IN ACCORDANCE WITH ACI 301.
11. REMOVE LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND AFTER CURING PERIOD HAS ELAPSED; REMOVE CURING COMPOUND WITHOUT DAMAGING CONCRETE SURFACES BY METHOD RECOMMENDED BY CURING COMPOUND MANUFACTURER UNLESS MANUFACTURER CERTIFIES CURING COMPOUND DOES NOT INTERFERE WITH BONDING OF FLOOR COVERING, SEALERS, STRIPING, COATINGS, PAVEMENT MARKINGS, ETC. WHICH MAY BE USED ON PROJECT.
12. ALL EXPOSED CONCRETE SHALL HAVE A RUBBED SURFACE FINISH. IMMEDIATELY AFTER REMOVING THE FORMS, ALL HONEYCOMB, VOIDS, AND OTHER SURFACE DEFECTS AND IRREGULARITIES SHALL BE GROUTED. THE SURFACES SHALL THEN BE THOROUGHLY DAMPENED AND RUBBED WITH A NO. 16 CARBORUNDUM STONE OR EQUAL ABRASIVE TO CREATE A UNIFORM SURFACE PASTE. THE RUBBING SHALL BE CONTINUED TO REMOVE ALL FORM MARKS AND SURFACE IRREGULARITIES PRODUCING A SMOOTH, DENSE SURFACE. AFTER CURING, THE SURFACE SHALL THEN BE RUBBED WITH A NO. 30 CARBORUNDUM STONE UNTIL THE SURFACE IS SMOOTH IN TEXTURE AND UNIFORM IN COLOR. REMOVE ALL LATHER, POWDER, AND DUST ON RUBBED SURFACES.
13. DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
14. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
15. REINFORCEMENT DETAIL DIMENSIONS SHALL BE OUT-TO-OUT OF BARS.
16. ACI STANDARD HOOKS SHALL BE USED UNLESS OTHERWISE NOTED.
17. ALL CONTINUOUS BARS SHALL HAVE CLASS "B" TENSION LAP SPLICES.

CAST-IN-PLACE CONCRETE (CONT.)

18. ALL LAP AND SPICE LENGTHS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND CRSI STANDARD PRACTICES, EXCEPT AS OTHERWISE NOTED.
19. PROVIDE 3" CONCRETE COVER OVER REINFORCING BARS EXCEPT AS OTHERWISE NOTED.
20. BARS SHALL BE FIELD TIED. WELDING IS NOT PERMITTED.
21. SUPPORT REINFORCEMENT IN ITS PROPER LOCATION FROM THE FORMWORK DURING CONCRETE OPERATION.
22. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION, AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE).
23. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES OF CONCRETE SURFACES.
24. FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON-CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND/OR CONCRETE BLOCK.
25. CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING. DESIGN SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN WHICH WORK IS PERFORMED.
26. THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THIS TESTING DIRECTLY AND PROMPTLY TO THE ENGINEER FOR REVIEW.
27. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING:

FOR EACH 150 CUBIC YARDS OR FRACTION THEREOF PLACED, 5,000 SQUARE FEET OF SURFACE AREA, OR EACH PLACEMENT OF EACH MIX DESIGN OF CONCRETE PLACED IN ANY ONE DAY, THE FOLLOWING SHALL BE PERFORMED:

SLUMP: TEST IN ACCORDANCE WITH ASTM C143

AIR CONTENT: TEST IN ACCORDANCE WITH ASTM C231 OR C173.

COMPR. STRENGTH: FABRICATE ONE SET OF (5) 6x12 CYLINDERS TEST IN ACCORDANCE WITH ASTM C39. FABRICATE ONE SET OF FIVE CONCRETE TEST SPECIMENS (CYLINDERS) FOR EACH 50 CUBIC YARDS. TEST ONE CYLINDER AT 7 DAYS AND THREE AT 28 DAYS, AND HOLD ONE IN RESERVE.

REINF. INSPECTIONS: CONFIRM SIZE, QUANTITY, AND LOCATION OF REINF FOR WALLS GREATER THAN 5' IN HEIGHT.
28. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ENGINEER AND CONTRACTOR.
29. COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
 - a. WHEN AVERAGE HIGH AND LOW TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES FAHRENHEIT FOR THREE SUCCESSIVE DAYS, MAINTAIN DELIVERED CONCRETE MIXTURE TEMPERATURE WITHIN THE TEMPERATURE RANGE REQUIRED BY ACI 301.
 - b. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS.
 - c. DO NOT USE CALCIUM CHLORIDE, SALT, OR OTHER MATERIALS CONTAINING ANITFREEZE AGENTS OR CHEMICAL ACCELERATORS UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIXTURE DESIGNS.
30. HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301 AND AS FOLLOWS:
 - a. MAINTAIN CONCRETE TEMPERATURE BELOW 90 DEGREES FAHRENHEIT AT TIME OF PLACEMENT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER. USING LIQUID NITROGEN TO COOL CONCRETE IS CONTRACTOR'S OPTION.
 - b. FOG-SPRAY FORMS, STEEL REINFORCEMENT, AND SUBGRADE JUST BEFORE PLACING CONCRETE. KEEP SUBGRADE UNIFORMLY MOIST WITHOUT STANDING WATER, SOFT SPOTS, OR DRY AREAS.

STRUCTURAL MASONRY:

1. MATERIALS FOR CONCRETE MASONRY UNIT WALLS SHALL MEET THE FOLLOWING :

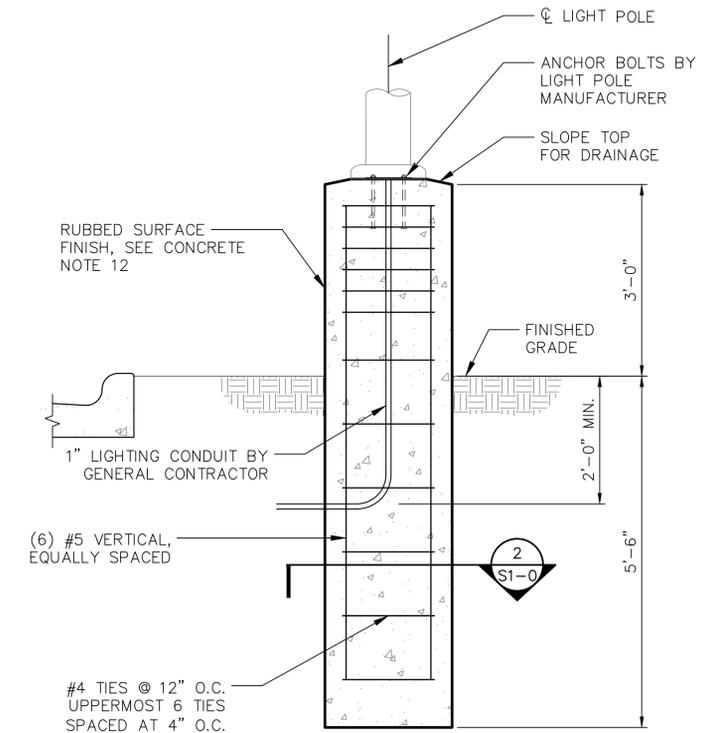
CONCRETE MASONRY UNITS: ASTM C90, 1900 PSI MIN. UNIT STRENGTH

MORTAR: ASTM C270, TYPE S

GROUT: ASTM C476, SLUMP = 8" TO 11", COMPRESSIVE STRENGTH f'c=3000 PSI

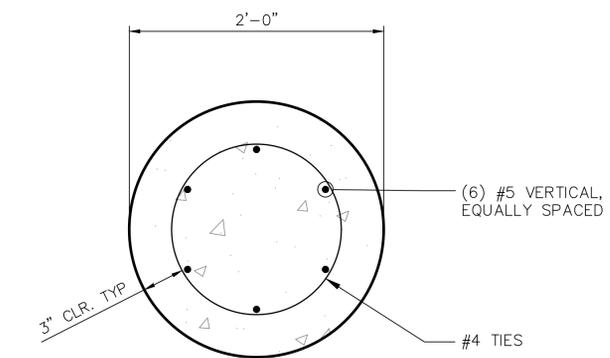
MASONRY ASSEMBLAGE: f'm=1500 PSI

REINFORCING STEEL: ASTM A615, GRADE 60
2. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE "BUILDING REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530) AND THE "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1).
3. CMU BLOCK WALLS SHALL BE FULLY GROUTED BELOW GRADE. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT UNLESS INDICATED OTHERWISE.
4. ALL REINFORCEMENT SHALL HAVE A SPlice LENGTH OF 48 BAR DIAMETERS.
5. INSTALL REINFORCEMENT IN THE CENTER OF CELLS UNLESS INDICATED OTHERWISE.
6. SECURE REINFORCING TO PREVENT MOVEMENT DURING GROUTING.



1 LIGHT POLE FOUNDATION
SCALE: 3/4" = 1'-0"

NOTE: DESIGN WIND SPEED IS 140 MPH PER THE NORTH CAROLINA STATE BUILDING CODE. LIGHT POLE FOUNDATION DESIGN IS BASED ON TWO LUMINAIRE FIXTURE WITH MAX COMBINED FIXTURE EPA OF 2.06 SQ. FT. MOUNTED ON A 18'-0" POLE WITH A WIND SPEED OF 140 MPH PER AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS (1ST EDITION, 2015).



2 LIGHT POLE FOUNDATION SECTION
SCALE: 1 1/2" = 1'-0"

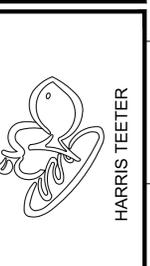
Kimley-Horn

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| 1 | 3/27/2020 | TOWN COMMENTS |



CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER STORE #175 KILL DEVIL HILLS
2008 S CROFTAN HIGHWAY
KILL DEVIL HILLS, NORTH CAROLINA 27948
DARE COUNTY

TITLE: GENERAL NOTES & LIGHT POLE FOUNDATION

DESIGNED BY: JAD
DRAWN BY: JJD
CHECKED BY: MBF
DATE: 02/14/2020
PROJECT#: 015640095

S1-0



February 13, 2020 - 8:07am By: jay.dierker@no

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Kimley-Horn
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DocuSigned by
 Michael B. Forst
 06482CAF295338

NORTH CAROLINA
 PROFESSIONAL
SEAL
 044483
 ENGINEER
MICHAEL B. FORST
 2/14/2020

| NO. | DATE | REVISIONS |
|-----|----------|-------------------------------|
| 1 | 10/17/18 | CANOPY COLUMN FACADE REVISION |

CLIENT:



HARRIS TEETER

PROJECT:

**HARRIS TEETER FUEL CENTER
 STORE #175 KILL DEVIL HILLS**

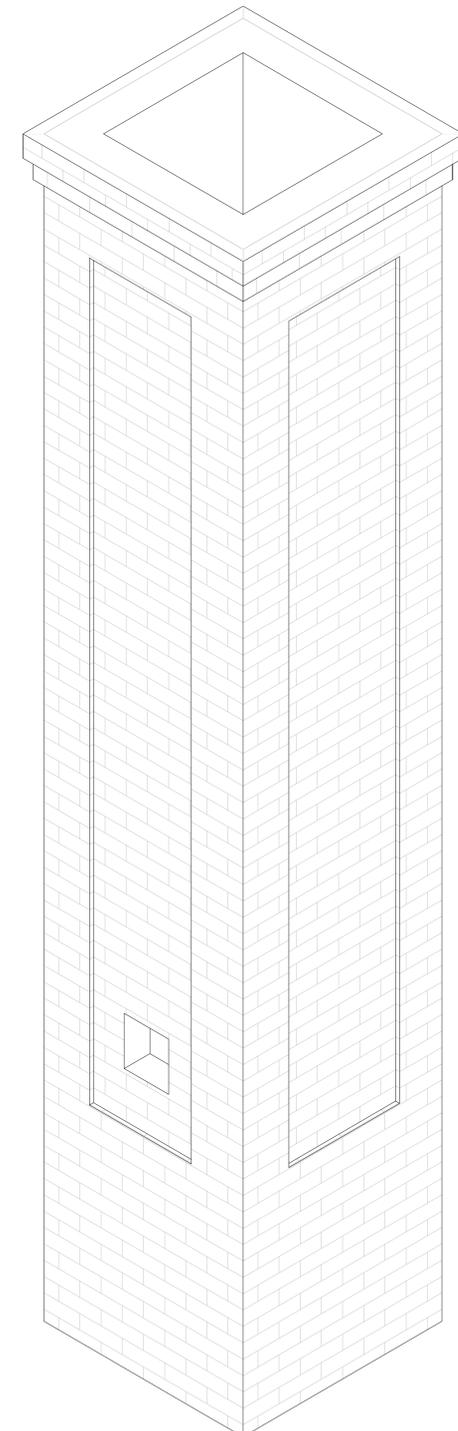
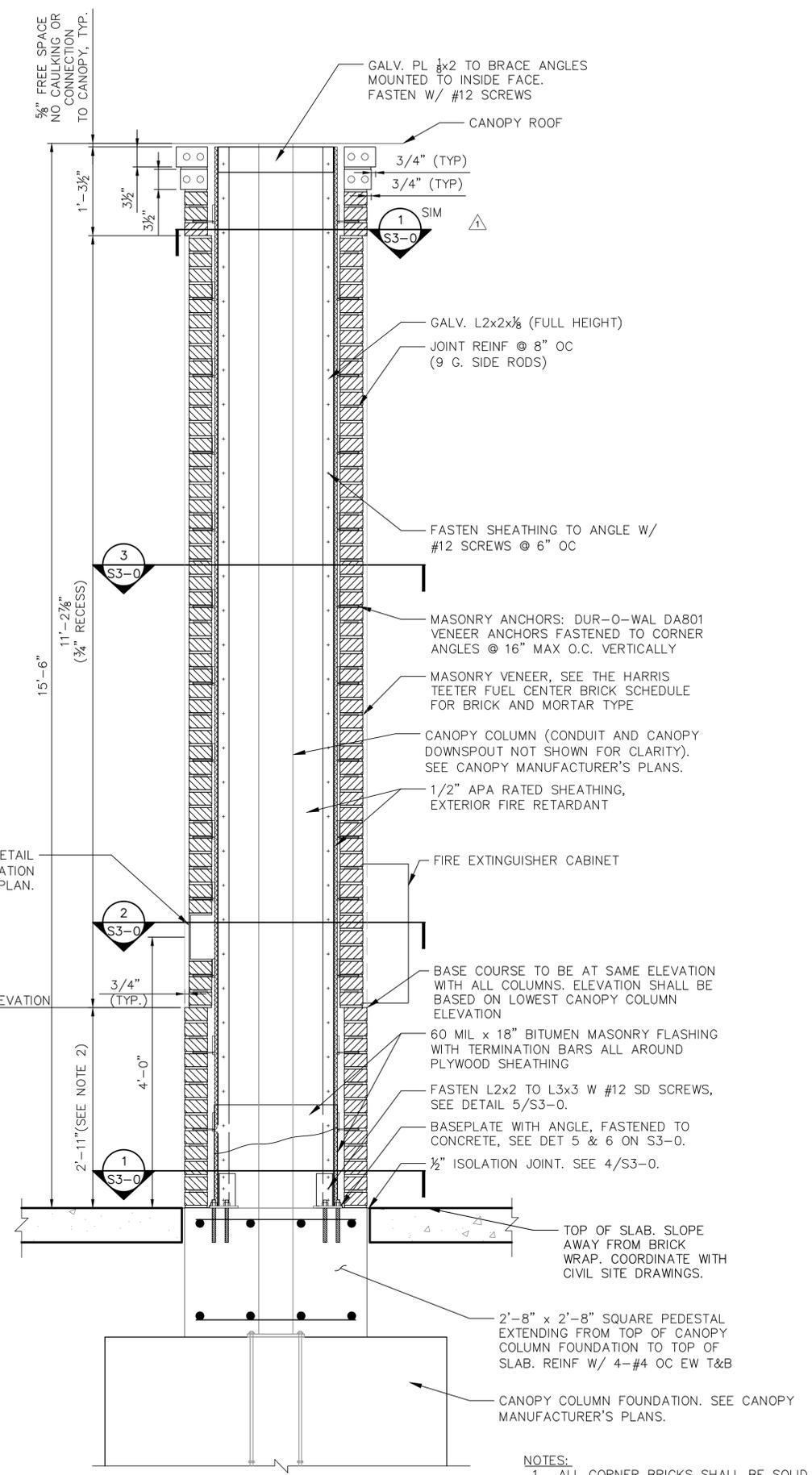
2008 S CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

TITLE:

**CANOPY COLUMN BRICK
 MASONRY WRAP**

| | |
|--------------|------------|
| DESIGNED BY: | JAD |
| DRAWN BY: | JJD |
| CHECKED BY: | MBF |
| DATE: | 02/14/2020 |
| PROJECT#: | 015640095 |

S2-0



STRUCTURAL DESIGN REPRESENTED ON THIS DRAWING PERTAINS ONLY TO MASONRY VENEER CLADDING AND NON-STRUCTURAL PEDESTAL. DESIGN OF CANOPY STRUCTURE AND FOUNDATION IS BY OTHERS AND IS OUTSIDE THE SCOPE OF KIMLEY-HORN'S PROFESSIONAL RESPONSIBILITY

1 CANOPY COLUMN BRICK MASONRY WRAP
 SCALE: 1" = 1'-0"

2 ISOMETRIC VIEW
 SCALE: NTS

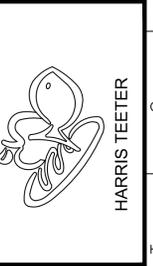
- NOTES:
- ALL CORNER BRICKS SHALL BE SOLID BRICKS.
 - DIMENSION BASED ON BOTTOM OF CANOPY HEIGHT 15'-6". ACTUAL DIMENSION VARIES WITH FINISHED GRADE ELEVATION.

NOTE: FOR REFERENCE ONLY. FOR COURSING, SEE 1/S2-0.



Know what's below.
 Call before you dig.

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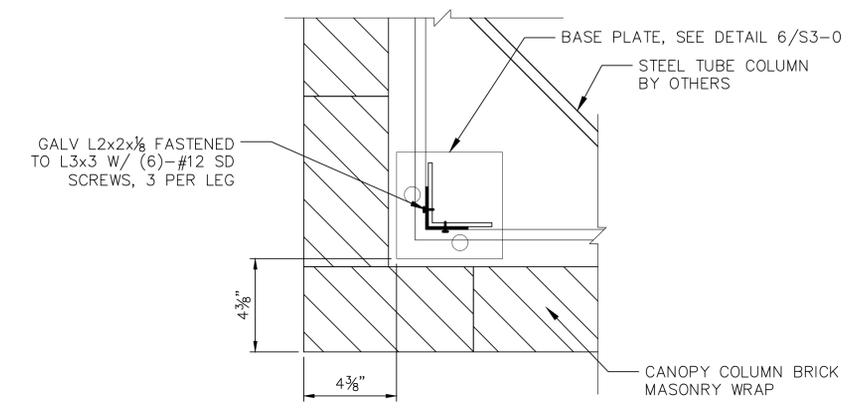


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HARRIS TEETER FUEL CENTER
STORE #175 KILL DEVIL HILLS
 2008 S. CROATAN HIGHWAY
 KILL DEVIL HILLS, NORTH CAROLINA 27948
 DARE COUNTY

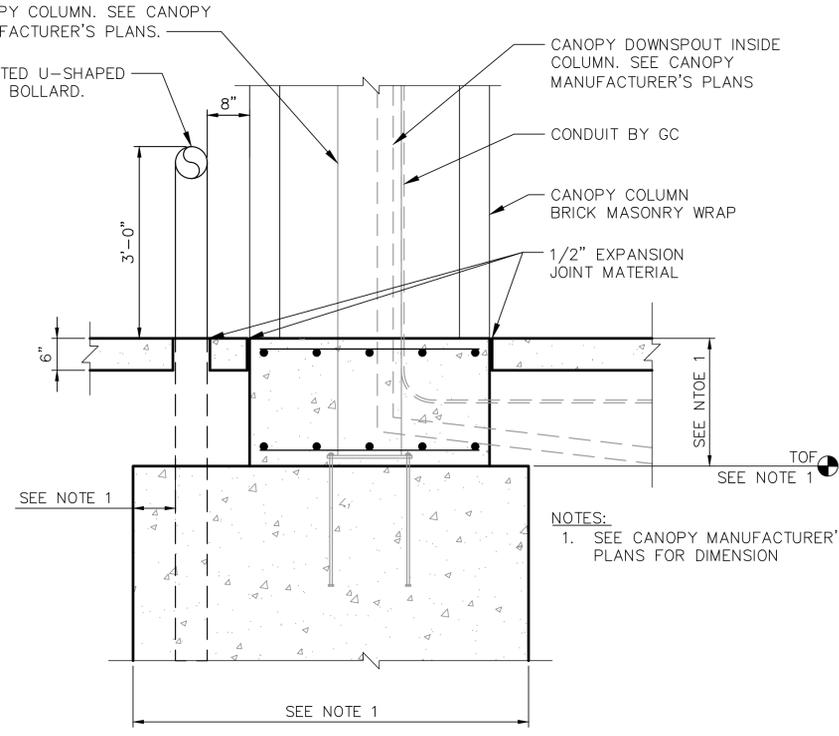
TITLE:
CANOPY COLUMN BRICK MASONRY WRAP

DESIGNED BY: JAD
 DRAWN BY: JJD
 CHECKED BY: MBF
 DATE: 02/14/2020
 PROJECT#: 015640095

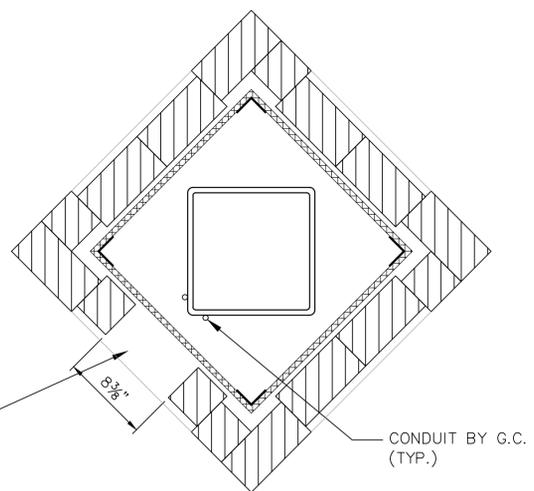
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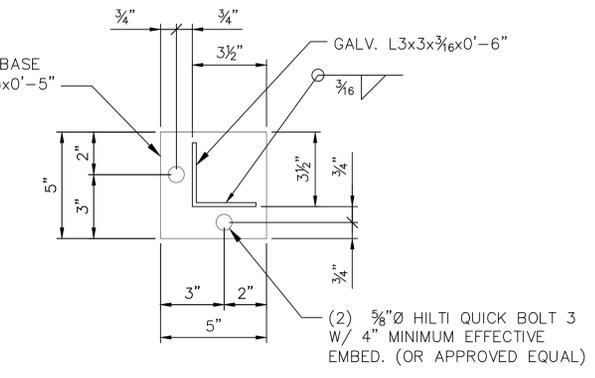
5 COLUMN WRAP CORNER DETAIL
 SCALE: 3" = 1'-0"



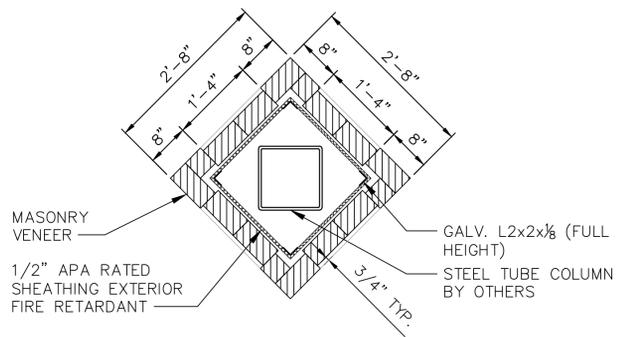
4 CANOPY BASE DETAIL
 SCALE: 3/4" = 1'-0"



2 COLUMN WRAP ACCESS PANEL DETAIL
 SCALE: 1-1/2" = 1'-0"

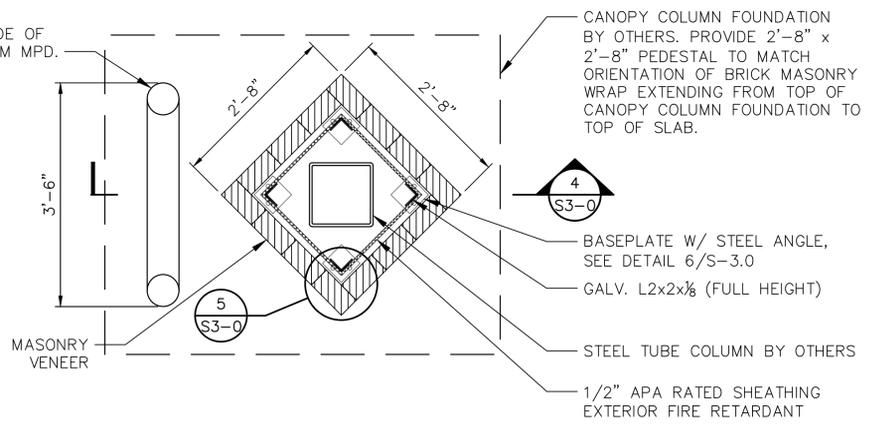


6 BASEPLATE DETAIL
 SCALE: 3" = 1'-0"



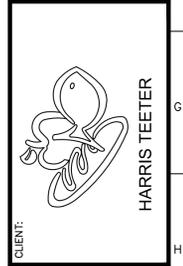
3 SECTION THROUGH RECESS
 SCALE: 3/4" = 1'-0"

KARP ASSOCIATES, INC.-DSC214M 8x8 S.S. FLUSH ACCESS DOOR WITH OPTIONAL MASONRY STRAPS, NEOPRENE GASKET, REMOVABLE DOOR AND ALLEN HEAD SECURITY LATCH. INSTALL PER MANUFACTURER'S INSTRUCTIONS. VERTICAL CENTERLINE OF DOOR SHALL MATCH VERTICAL CENTERLINE OF BRICK MASONRY WRAP. HORIZONTAL CENTERLINE OF DOOR SHALL BE 4'-0" FROM TOP OF SLAB. GC TO PAINT TO MATCH VENEER. COORDINATE LOCATION WITH CANOPY COLUMN ACCESS PANEL AND CONDUIT ROUTING PLAN.



1 PLAN DETAIL
 SCALE: 3/4" = 1'-0"

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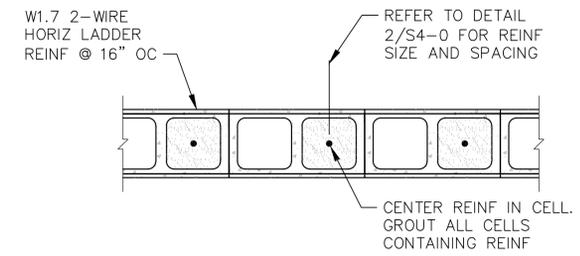
CLIENT: HARRIS TEETER

PROJECT: HARRIS TEETER FUEL CENTER STORE #175 KILL DEVIL HILLS
 2008 S CROATAN HIGHWAY
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 DARE COUNTY

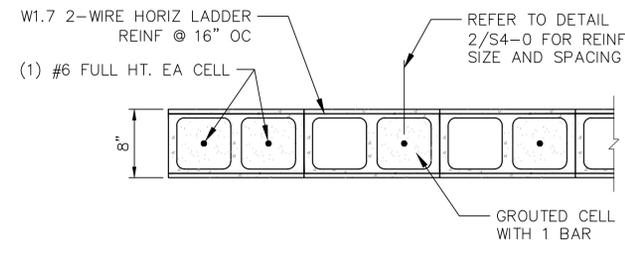
TITLE: DUMPSTER WALL AND SITE WALL DETAILS

DESIGNED BY: JAD
 DRAWN BY: JJD
 CHECKED BY: MBF
 DATE: 02/14/2020
 PROJECT#: 015640095

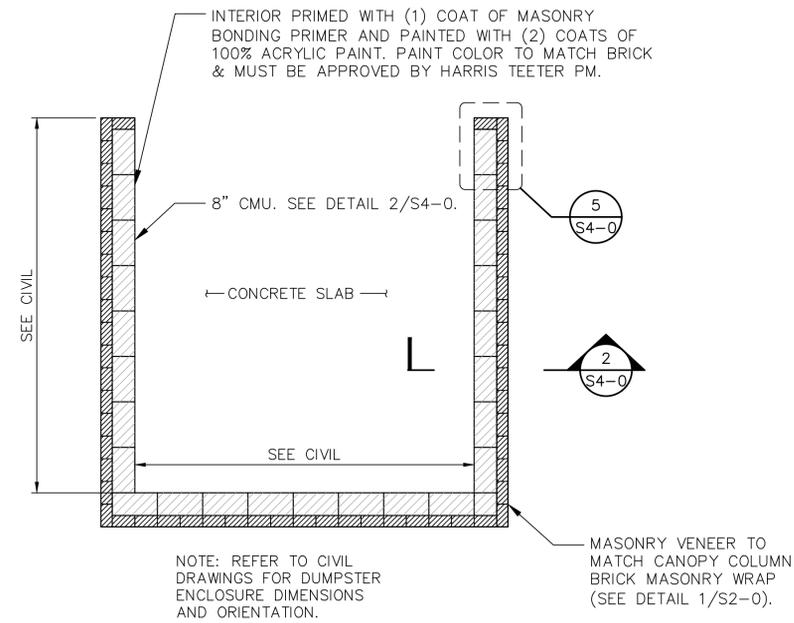
S4-0



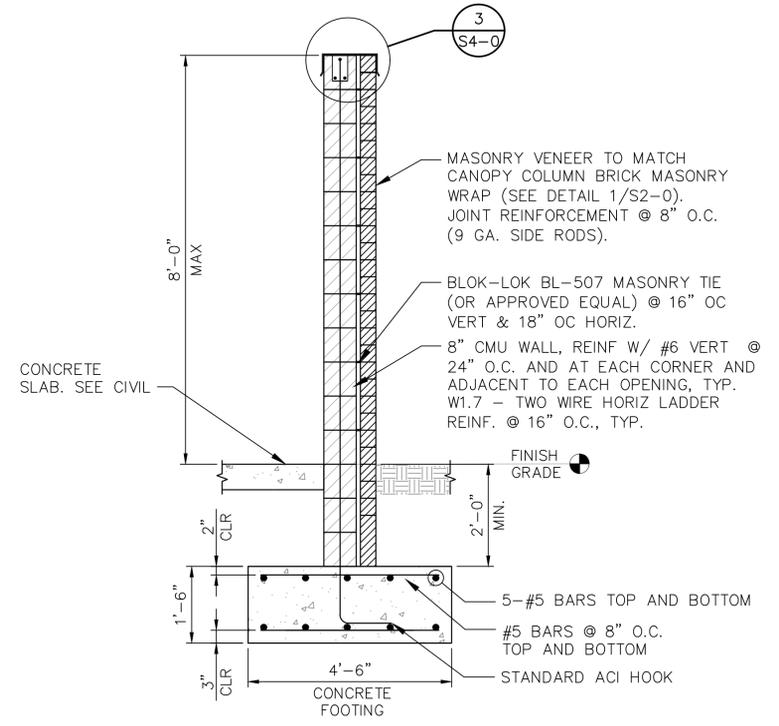
4 TYPICAL CMU REINFORCEMENT - PLAN VIEW
 S4-0 SCALE: NTS



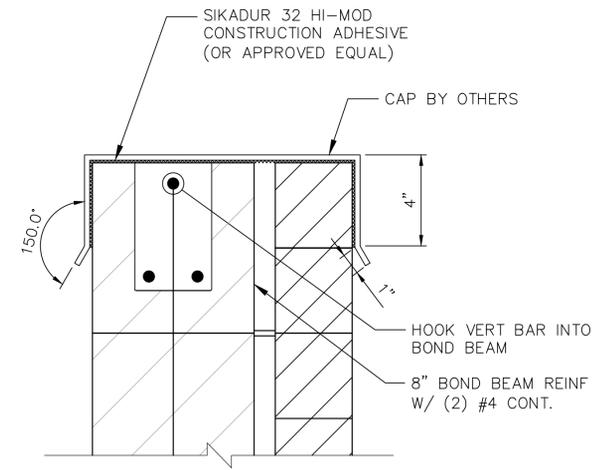
5 END OF TYPICAL WALL - PLAN VIEW
 S4-0 SCALE: NTS



1 DUMPSTER ENCLOSURE PLAN
 S4-0 SCALE: NTS



2 SECTION THRU DUMPSTER ENCLOSURE
 S4-0 SCALE: NTS



3 DUMPSTER ENCLOSURE DETAIL CAP
 S4-0 SCALE: NTS